Peelii Larval Structure - Sites and Years

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## Loading required package: knitr

## Loading project configuration

## Autoloading helper functions

## Running helper script: funRel.R

## Autoloading cache

## Autoloading data

## Loading data set: DARTallIdentifiers

## Loading data set: qslAllLarvaInfo

## Loading data set: qslMetaLarvAndAdultsUnion

## Loading data set: qslMPeeliiForRelated

## Loading data set: Report.DMac15.1861

## Munging data

## Running preprocessing script: 01MungeGeneticsDatacontaminationfix.R

## Loading required package: dplyr

##   
## Attaching package: 'dplyr'

## The following objects are masked from 'package:stats':  
##   
## filter, lag

## The following objects are masked from 'package:base':  
##   
## intersect, setdiff, setequal, union

## Running preprocessing script: 02MungeLarvaSnpsByYears.R

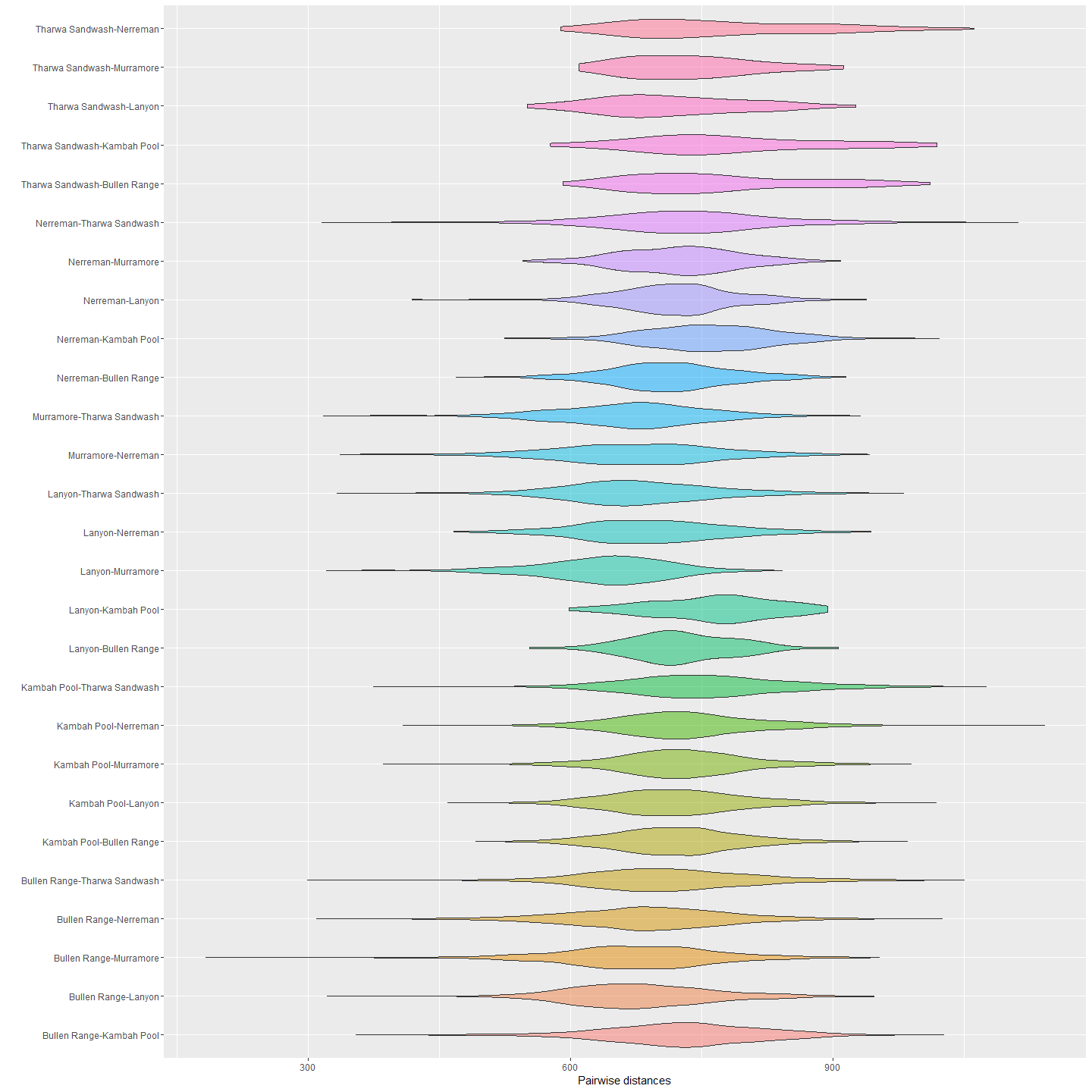
## Running preprocessing script: 03MungeLarvaSnpsByYearCombos.R

a<-suppressPackageStartupMessages({  
library(plyr)  
library(dplyr)  
library(ggplot2)  
library(dart)  
library(tsne)  
library(adegenet)   
library(pegas)  
library(hierfstat)  
library(ade4)  
 library(mmod)  
})  
  
ptm <- proc.time()

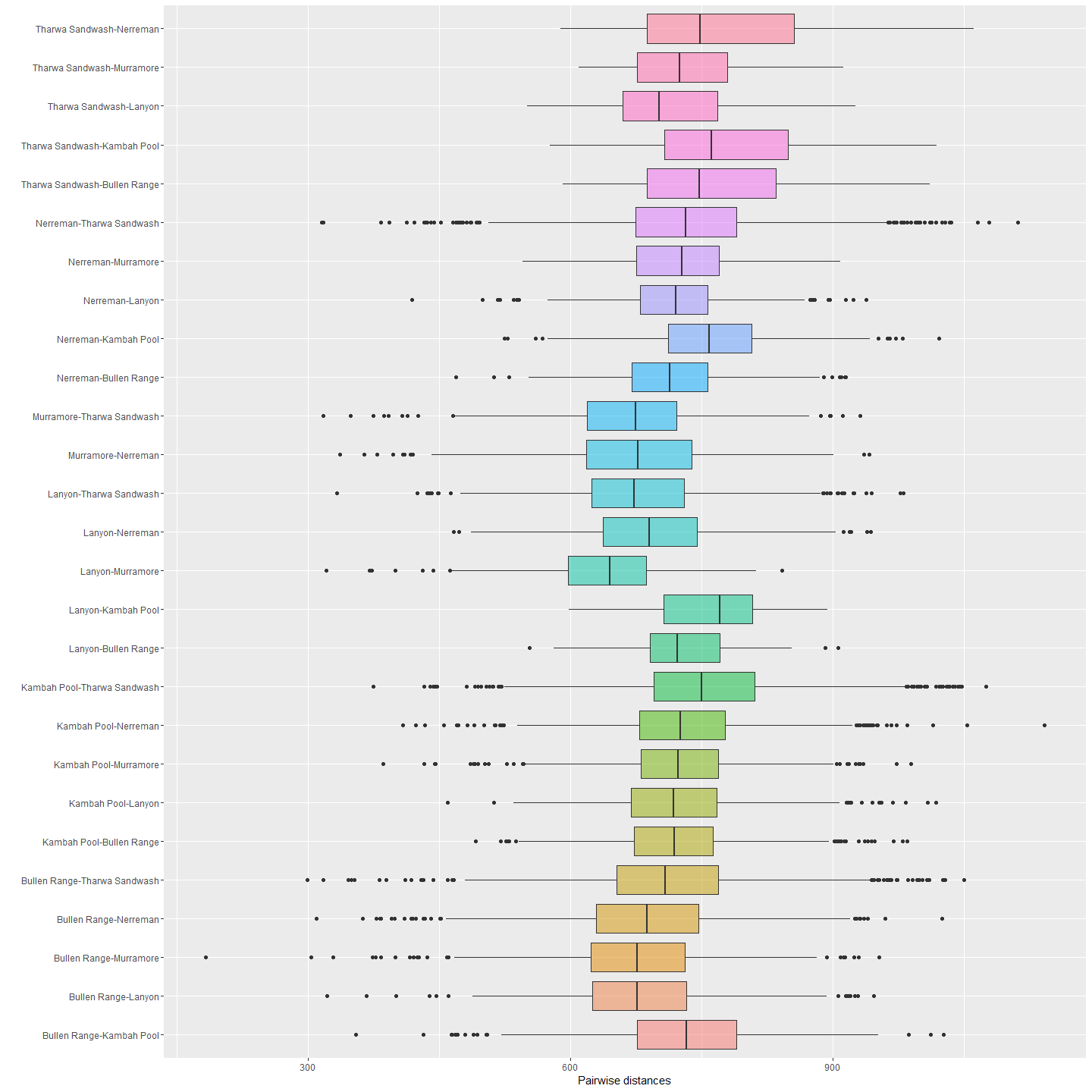
### Basic PopGen

pairDistPlot(gi, gi$pop, within=FALSE, sep="-", data=TRUE,violin=TRUE, boxplot=TRUE, jitter=TRUE)

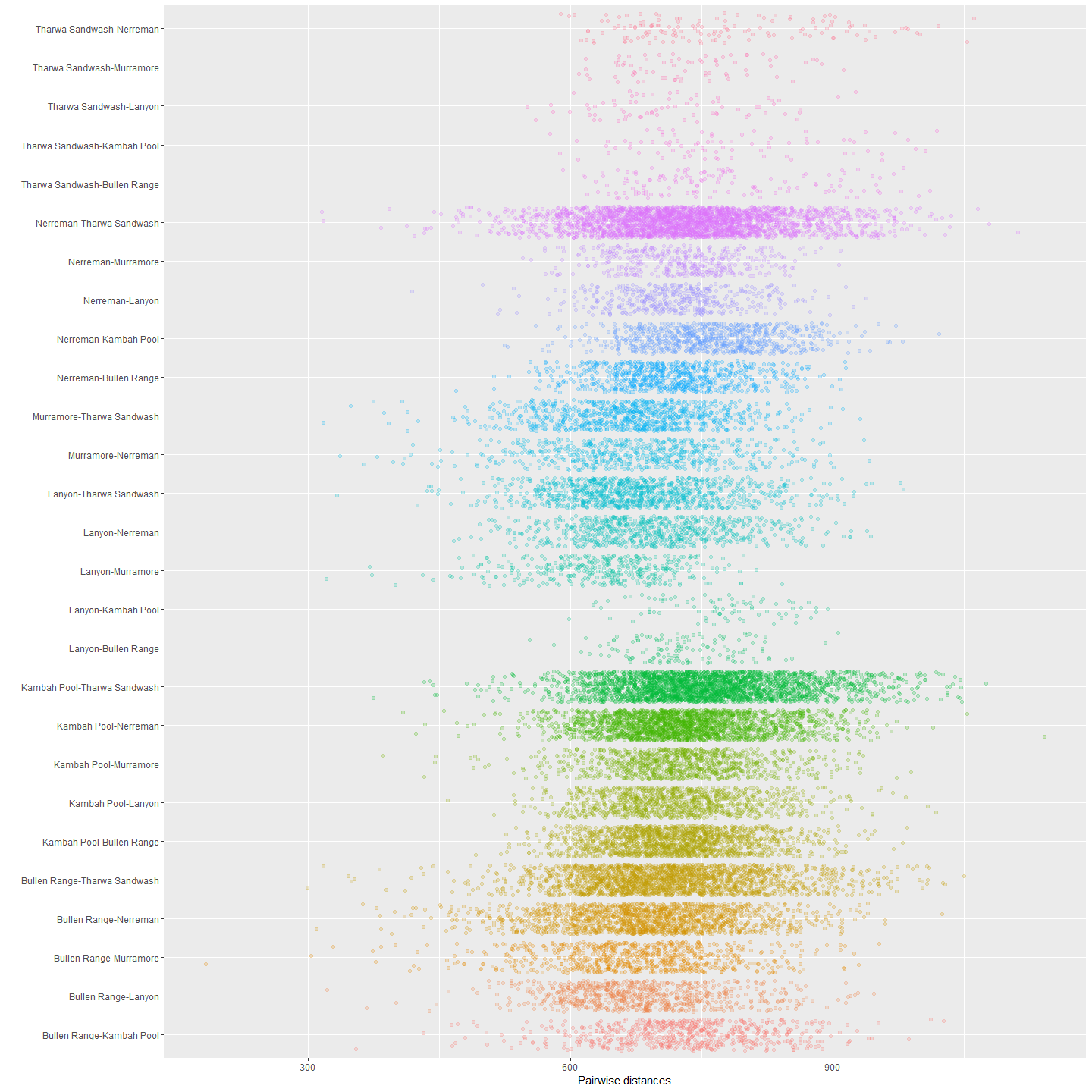
## $data  
## distance groups  
## 1 726.8275 Kambah Pool-Bullen Range  
## 2 693.9670 Kambah Pool-Bullen Range  
## 3 692.5957 Kambah Pool-Bullen Range  
## 4 676.2446 Kambah Pool-Bullen Range  
## 5 589.7718 Kambah Pool-Bullen Range  
## 6 664.8816 Kambah Pool-Bullen Range  
## 7 661.0032 Kambah Pool-Bullen Range  
## 8 748.1495 Kambah Pool-Bullen Range  
## 9 701.2918 Kambah Pool-Bullen Range  
## 10 739.1503 Kambah Pool-Nerreman  
## 11 715.7334 Kambah Pool-Nerreman  
## 12 779.0738 Kambah Pool-Nerreman  
## 13 711.9430 Kambah Pool-Nerreman  
## 14 699.4999 Kambah Pool-Nerreman  
## 15 642.6865 Kambah Pool-Nerreman  
## 16 654.4018 Kambah Pool-Nerreman  
## 17 791.5645 Kambah Pool-Nerreman  
## 18 665.1625 Kambah Pool-Nerreman  
## 19 677.2620 Kambah Pool-Nerreman  
## 20 578.3849 Kambah Pool-Nerreman  
## 21 633.8413 Kambah Pool-Nerreman  
## 22 676.6116 Kambah Pool-Nerreman  
## 23 664.4947 Kambah Pool-Nerreman  
## 24 675.8548 Kambah Pool-Nerreman  
## 25 513.7185 Kambah Pool-Nerreman  
## 26 713.7263 Kambah Pool-Nerreman  
## 27 733.3165 Kambah Pool-Tharwa Sandwash  
## 28 706.1171 Kambah Pool-Lanyon  
## 29 727.6358 Kambah Pool-Lanyon  
## 30 749.9116 Kambah Pool-Lanyon  
## 31 778.3295 Kambah Pool-Lanyon  
## 32 730.1520 Kambah Pool-Nerreman  
## 33 727.8603 Kambah Pool-Nerreman  
## 34 719.4820 Kambah Pool-Nerreman  
## 35 671.0380 Kambah Pool-Nerreman  
## 36 675.8886 Kambah Pool-Tharwa Sandwash  
## 37 808.1834 Kambah Pool-Tharwa Sandwash  
## 38 664.8125 Kambah Pool-Tharwa Sandwash  
## 39 724.5716 Kambah Pool-Nerreman  
## 40 659.5152 Kambah Pool-Bullen Range  
## 41 706.7319 Kambah Pool-Bullen Range  
## 42 622.3662 Kambah Pool-Bullen Range  
## 43 656.2442 Kambah Pool-Bullen Range  
## 44 699.1857 Kambah Pool-Bullen Range  
## 45 647.8458 Kambah Pool-Bullen Range  
## 46 710.5216 Kambah Pool-Bullen Range  
## 47 686.5818 Kambah Pool-Bullen Range  
## 48 738.4557 Kambah Pool-Bullen Range  
## 49 621.7775 Kambah Pool-Bullen Range  
## 50 663.6570 Kambah Pool-Bullen Range  
## 51 663.9487 Kambah Pool-Bullen Range  
## 52 666.3738 Kambah Pool-Bullen Range  
## 53 614.9567 Kambah Pool-Bullen Range  
## 54 802.6685 Kambah Pool-Bullen Range  
## 55 696.0037 Kambah Pool-Bullen Range  
## 56 671.8442 Kambah Pool-Bullen Range  
## 57 648.6164 Kambah Pool-Bullen Range  
## 58 704.5714 Kambah Pool-Bullen Range  
## 59 606.2452 Kambah Pool-Bullen Range  
## 60 652.4751 Kambah Pool-Bullen Range  
## 61 670.2949 Kambah Pool-Bullen Range  
## 62 721.0315 Kambah Pool-Bullen Range  
## 63 661.8944 Kambah Pool-Bullen Range  
## 64 704.5612 Kambah Pool-Bullen Range  
## 65 657.5559 Kambah Pool-Bullen Range  
## 66 715.3388 Kambah Pool-Bullen Range  
## 67 574.6590 Kambah Pool-Bullen Range  
## 68 625.6516 Kambah Pool-Bullen Range  
## 69 587.6827 Kambah Pool-Bullen Range  
## 70 688.3849 Kambah Pool-Bullen Range  
## 71 648.5093 Kambah Pool-Bullen Range  
## 72 761.5243 Kambah Pool-Bullen Range  
## 73 723.7123 Kambah Pool-Lanyon  
## 74 697.9760 Kambah Pool-Lanyon  
## 75 720.5976 Kambah Pool-Lanyon  
## 76 794.3364 Kambah Pool-Lanyon  
## 77 675.6882 Kambah Pool-Lanyon  
## 78 686.5872 Kambah Pool-Lanyon  
## 79 571.9229 Kambah Pool-Lanyon  
## 80 722.0267 Kambah Pool-Lanyon  
## 81 616.7375 Kambah Pool-Lanyon  
## 82 614.6138 Kambah Pool-Lanyon  
## 83 675.1332 Kambah Pool-Lanyon  
## 84 685.5296 Kambah Pool-Lanyon  
## 85 682.5426 Kambah Pool-Lanyon  
## 86 615.8128 Kambah Pool-Lanyon  
## 87 692.8703 Kambah Pool-Lanyon  
## 88 738.5670 Kambah Pool-Lanyon  
## 89 744.7564 Kambah Pool-Lanyon  
## 90 745.4332 Kambah Pool-Murramore  
## 91 690.0115 Kambah Pool-Murramore  
## 92 785.1976 Kambah Pool-Murramore  
## 93 711.6674 Kambah Pool-Murramore  
## 94 656.9786 Kambah Pool-Murramore  
## 95 717.7490 Kambah Pool-Murramore  
## 96 665.1237 Kambah Pool-Murramore  
## 97 560.4363 Kambah Pool-Murramore  
## 98 699.5159 Kambah Pool-Murramore  
## 99 643.1485 Kambah Pool-Murramore  
## 100 599.1136 Kambah Pool-Murramore  
## 101 549.0568 Kambah Pool-Murramore  
## 102 610.6178 Kambah Pool-Murramore  
## 103 627.2756 Kambah Pool-Murramore  
## 104 744.7048 Kambah Pool-Murramore  
## 105 811.4114 Kambah Pool-Murramore  
## 106 751.0815 Kambah Pool-Murramore  
## 107 763.1666 Kambah Pool-Murramore  
## 108 754.7774 Kambah Pool-Nerreman  
## 109 666.6010 Kambah Pool-Nerreman  
## 110 656.8156 Kambah Pool-Nerreman  
## 111 658.2652 Kambah Pool-Nerreman  
## 112 676.4173 Kambah Pool-Nerreman  
## 113 739.3278 Kambah Pool-Nerreman  
## 114 634.7690 Kambah Pool-Nerreman  
## 115 706.2278 Kambah Pool-Nerreman  
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## 117 703.1028 Kambah Pool-Nerreman  
## 118 652.6627 Kambah Pool-Nerreman  
## 119 587.8814 Kambah Pool-Nerreman  
## 120 733.1086 Kambah Pool-Nerreman  
## 121 901.8540 Kambah Pool-Nerreman  
## 122 695.5228 Kambah Pool-Nerreman  
## 123 626.7546 Kambah Pool-Nerreman  
## 124 614.2312 Kambah Pool-Nerreman  
## 125 681.1297 Kambah Pool-Nerreman  
## 126 707.1025 Kambah Pool-Nerreman  
## 127 731.9699 Kambah Pool-Nerreman  
## 128 639.6576 Kambah Pool-Nerreman  
## 129 714.1201 Kambah Pool-Nerreman  
## 130 672.8036 Kambah Pool-Nerreman  
## 131 625.3812 Kambah Pool-Nerreman  
## 132 655.7740 Kambah Pool-Nerreman  
## 133 713.3156 Kambah Pool-Nerreman  
## 134 672.1181 Kambah Pool-Nerreman  
## 135 665.1610 Kambah Pool-Nerreman  
## 136 571.1228 Kambah Pool-Nerreman  
## 137 600.6223 Kambah Pool-Nerreman  
## 138 654.2822 Kambah Pool-Nerreman  
## 139 605.0614 Kambah Pool-Nerreman  
## 140 715.8218 Kambah Pool-Nerreman  
## 141 739.1754 Kambah Pool-Tharwa Sandwash  
## 142 734.2854 Kambah Pool-Tharwa Sandwash  
## 143 702.0755 Kambah Pool-Tharwa Sandwash  
## 144 737.3566 Kambah Pool-Tharwa Sandwash  
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## 146 758.6894 Kambah Pool-Tharwa Sandwash  
## 147 792.0744 Kambah Pool-Tharwa Sandwash  
## 148 747.8356 Kambah Pool-Tharwa Sandwash  
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## 150 714.9733 Kambah Pool-Tharwa Sandwash  
## 151 695.6735 Kambah Pool-Tharwa Sandwash  
## 152 755.5783 Kambah Pool-Tharwa Sandwash  
## 153 810.8150 Kambah Pool-Tharwa Sandwash  
## 154 770.2657 Kambah Pool-Tharwa Sandwash  
## 155 786.3543 Kambah Pool-Tharwa Sandwash  
## 156 740.4407 Kambah Pool-Tharwa Sandwash  
## 157 683.2741 Kambah Pool-Tharwa Sandwash  
## 158 639.2050 Kambah Pool-Tharwa Sandwash  
## 159 722.3555 Kambah Pool-Tharwa Sandwash  
## 160 692.8020 Kambah Pool-Tharwa Sandwash  
## 161 716.0216 Kambah Pool-Tharwa Sandwash  
## 162 679.4797 Kambah Pool-Tharwa Sandwash  
## 163 793.3288 Kambah Pool-Tharwa Sandwash  
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## 166 635.3139 Kambah Pool-Tharwa Sandwash  
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## 171 764.8119 Kambah Pool-Tharwa Sandwash  
## 172 643.8713 Kambah Pool-Tharwa Sandwash  
## 173 650.4585 Kambah Pool-Tharwa Sandwash  
## 174 684.4348 Kambah Pool-Tharwa Sandwash  
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## 178 566.3238 Kambah Pool-Tharwa Sandwash  
## 179 653.3698 Kambah Pool-Tharwa Sandwash  
## 180 591.2502 Kambah Pool-Tharwa Sandwash  
## 181 850.2969 Kambah Pool-Tharwa Sandwash  
## 182 918.0062 Kambah Pool-Tharwa Sandwash  
## 183 665.3709 Kambah Pool-Tharwa Sandwash  
## 184 801.8689 Kambah Pool-Tharwa Sandwash  
## 185 805.6958 Kambah Pool-Tharwa Sandwash  
## 186 749.4509 Kambah Pool-Tharwa Sandwash  
## 187 670.1865 Kambah Pool-Tharwa Sandwash  
## 188 747.2155 Kambah Pool-Tharwa Sandwash  
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## 190 698.5018 Kambah Pool-Bullen Range  
## 191 786.9291 Kambah Pool-Bullen Range  
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## 193 667.4792 Kambah Pool-Bullen Range  
## 194 654.1357 Kambah Pool-Bullen Range  
## 195 740.3987 Kambah Pool-Bullen Range  
## 196 738.4746 Kambah Pool-Bullen Range  
## 197 773.8009 Kambah Pool-Bullen Range  
## 198 731.2563 Kambah Pool-Bullen Range  
## 199 702.9646 Kambah Pool-Nerreman  
## 200 708.6535 Kambah Pool-Nerreman  
## 201 820.2698 Kambah Pool-Nerreman  
## 202 808.9654 Kambah Pool-Nerreman  
## 203 849.1576 Kambah Pool-Nerreman  
## 204 747.2501 Kambah Pool-Nerreman  
## 205 652.8812 Kambah Pool-Nerreman  
## 206 838.0214 Kambah Pool-Nerreman  
## 207 726.8702 Kambah Pool-Nerreman  
## 208 764.0784 Kambah Pool-Nerreman  
## 209 649.9276 Kambah Pool-Nerreman  
## 210 692.3183 Kambah Pool-Nerreman  
## 211 715.2186 Kambah Pool-Nerreman  
## 212 740.5951 Kambah Pool-Nerreman  
## 213 726.9920 Kambah Pool-Nerreman  
## 214 707.8234 Kambah Pool-Nerreman  
## 215 779.9242 Kambah Pool-Nerreman  
## 216 737.7174 Kambah Pool-Tharwa Sandwash  
## 217 688.8105 Kambah Pool-Lanyon  
## 218 835.4749 Kambah Pool-Lanyon  
## 219 762.1949 Kambah Pool-Lanyon  
## 220 780.4810 Kambah Pool-Lanyon  
## 221 814.2161 Kambah Pool-Nerreman  
## 222 707.9640 Kambah Pool-Nerreman  
## 223 734.6267 Kambah Pool-Nerreman  
## 224 690.2880 Kambah Pool-Nerreman  
## 225 787.5825 Kambah Pool-Tharwa Sandwash  
## 226 902.9564 Kambah Pool-Tharwa Sandwash  
## 227 707.3723 Kambah Pool-Tharwa Sandwash  
## 228 786.4701 Kambah Pool-Nerreman  
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## 246 689.9926 Kambah Pool-Bullen Range  
## 247 672.7969 Kambah Pool-Bullen Range  
## 248 646.6934 Kambah Pool-Bullen Range  
## 249 657.4629 Kambah Pool-Bullen Range  
## 250 717.8295 Kambah Pool-Bullen Range  
## 251 731.2496 Kambah Pool-Bullen Range  
## 252 633.8294 Kambah Pool-Bullen Range  
## 253 702.1199 Kambah Pool-Bullen Range  
## 254 641.3141 Kambah Pool-Bullen Range  
## 255 828.7786 Kambah Pool-Bullen Range  
## 256 619.8122 Kambah Pool-Bullen Range  
## 257 669.9409 Kambah Pool-Bullen Range  
## 258 645.1926 Kambah Pool-Bullen Range  
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## 260 665.5100 Kambah Pool-Bullen Range  
## 261 726.9898 Kambah Pool-Bullen Range  
## 262 721.4666 Kambah Pool-Lanyon  
## 263 715.7518 Kambah Pool-Lanyon  
## 264 793.1377 Kambah Pool-Lanyon  
## 265 854.2040 Kambah Pool-Lanyon  
## 266 705.3905 Kambah Pool-Lanyon  
## 267 686.4909 Kambah Pool-Lanyon  
## 268 573.5951 Kambah Pool-Lanyon  
## 269 763.6975 Kambah Pool-Lanyon  
## 270 646.7446 Kambah Pool-Lanyon  
## 271 717.2648 Kambah Pool-Lanyon  
## 272 693.9263 Kambah Pool-Lanyon  
## 273 735.0043 Kambah Pool-Lanyon  
## 274 647.5105 Kambah Pool-Lanyon  
## 275 717.5070 Kambah Pool-Lanyon  
## 276 789.9392 Kambah Pool-Lanyon  
## 277 726.2859 Kambah Pool-Lanyon  
## 278 659.9114 Kambah Pool-Lanyon  
## 279 685.4073 Kambah Pool-Murramore  
## 280 724.8264 Kambah Pool-Murramore  
## 281 818.7629 Kambah Pool-Murramore  
## 282 685.1930 Kambah Pool-Murramore  
## 283 569.2380 Kambah Pool-Murramore  
## 284 719.4450 Kambah Pool-Murramore  
## 285 661.3215 Kambah Pool-Murramore  
## 286 679.0562 Kambah Pool-Murramore  
## 287 760.2016 Kambah Pool-Murramore  
## 288 654.9756 Kambah Pool-Murramore  
## 289 750.6342 Kambah Pool-Murramore  
## 290 566.3063 Kambah Pool-Murramore  
## 291 614.0986 Kambah Pool-Murramore  
## 292 651.9316 Kambah Pool-Murramore  
## 293 786.6814 Kambah Pool-Murramore  
## 294 799.0412 Kambah Pool-Murramore  
## 295 854.6918 Kambah Pool-Murramore  
## 296 752.8613 Kambah Pool-Murramore  
## 297 791.4014 Kambah Pool-Nerreman  
## 298 687.2181 Kambah Pool-Nerreman  
## 299 657.6269 Kambah Pool-Nerreman  
## 300 737.3576 Kambah Pool-Nerreman  
## 301 698.3008 Kambah Pool-Nerreman  
## 302 758.5270 Kambah Pool-Nerreman  
## 303 754.2081 Kambah Pool-Nerreman  
## 304 718.6107 Kambah Pool-Nerreman  
## 305 754.4967 Kambah Pool-Nerreman  
## 306 785.6180 Kambah Pool-Nerreman  
## 307 709.2140 Kambah Pool-Nerreman  
## 308 669.2990 Kambah Pool-Nerreman  
## 309 755.4169 Kambah Pool-Nerreman  
## 310 911.4878 Kambah Pool-Nerreman  
## 311 684.9470 Kambah Pool-Nerreman  
## 312 722.1561 Kambah Pool-Nerreman  
## 313 671.2126 Kambah Pool-Nerreman  
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## 318 669.5527 Kambah Pool-Nerreman  
## 319 722.1183 Kambah Pool-Nerreman  
## 320 683.3583 Kambah Pool-Nerreman  
## 321 736.4930 Kambah Pool-Nerreman  
## 322 668.6051 Kambah Pool-Nerreman  
## 323 734.9966 Kambah Pool-Nerreman  
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## 325 720.8579 Kambah Pool-Nerreman  
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## 327 718.7638 Kambah Pool-Nerreman  
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## 329 829.8913 Kambah Pool-Nerreman  
## 330 849.9923 Kambah Pool-Tharwa Sandwash  
## 331 834.4211 Kambah Pool-Tharwa Sandwash  
## 332 727.1754 Kambah Pool-Tharwa Sandwash  
## 333 712.9504 Kambah Pool-Tharwa Sandwash  
## 334 740.1068 Kambah Pool-Tharwa Sandwash  
## 335 744.2647 Kambah Pool-Tharwa Sandwash  
## 336 736.8873 Kambah Pool-Tharwa Sandwash  
## 337 714.6722 Kambah Pool-Tharwa Sandwash  
## 338 831.3437 Kambah Pool-Tharwa Sandwash  
## 339 793.5759 Kambah Pool-Tharwa Sandwash  
## 340 752.3750 Kambah Pool-Tharwa Sandwash  
## 341 856.4467 Kambah Pool-Tharwa Sandwash  
## 342 863.4778 Kambah Pool-Tharwa Sandwash  
## 343 793.9815 Kambah Pool-Tharwa Sandwash  
## 344 734.8617 Kambah Pool-Tharwa Sandwash  
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## 346 652.9848 Kambah Pool-Tharwa Sandwash  
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## 348 718.3193 Kambah Pool-Tharwa Sandwash  
## 349 693.3888 Kambah Pool-Tharwa Sandwash  
## 350 739.6216 Kambah Pool-Tharwa Sandwash  
## 351 689.2576 Kambah Pool-Tharwa Sandwash  
## 352 778.9183 Kambah Pool-Tharwa Sandwash  
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## 355 692.4840 Kambah Pool-Tharwa Sandwash  
## 356 759.7293 Kambah Pool-Tharwa Sandwash  
## 357 870.2654 Kambah Pool-Tharwa Sandwash  
## 358 724.5638 Kambah Pool-Tharwa Sandwash  
## 359 689.2466 Kambah Pool-Tharwa Sandwash  
## 360 845.7456 Kambah Pool-Tharwa Sandwash  
## 361 612.8712 Kambah Pool-Tharwa Sandwash  
## 362 741.0534 Kambah Pool-Tharwa Sandwash  
## 363 691.5716 Kambah Pool-Tharwa Sandwash  
## 364 886.5609 Kambah Pool-Tharwa Sandwash  
## 365 816.4831 Kambah Pool-Tharwa Sandwash  
## 366 773.4988 Kambah Pool-Tharwa Sandwash  
## 367 653.6471 Kambah Pool-Tharwa Sandwash  
## 368 739.5261 Kambah Pool-Tharwa Sandwash  
## 369 649.1864 Kambah Pool-Tharwa Sandwash  
## 370 869.8072 Kambah Pool-Tharwa Sandwash  
## 371 872.7476 Kambah Pool-Tharwa Sandwash  
## 372 615.8617 Kambah Pool-Tharwa Sandwash  
## 373 759.8437 Kambah Pool-Tharwa Sandwash  
## 374 783.9250 Kambah Pool-Tharwa Sandwash  
## 375 687.2548 Kambah Pool-Tharwa Sandwash  
## 376 721.2398 Kambah Pool-Tharwa Sandwash  
## 377 791.8919 Kambah Pool-Tharwa Sandwash  
## 378 637.5379 Kambah Pool-Tharwa Sandwash  
## 379 752.5978 Kambah Pool-Bullen Range  
## 380 753.6151 Kambah Pool-Bullen Range  
## 381 708.4756 Kambah Pool-Bullen Range  
## 382 679.9515 Kambah Pool-Bullen Range  
## 383 632.0511 Kambah Pool-Bullen Range  
## 384 731.4536 Kambah Pool-Bullen Range  
## 385 747.3099 Kambah Pool-Bullen Range  
## 386 804.2690 Kambah Pool-Bullen Range  
## 387 658.5802 Kambah Pool-Bullen Range  
## 388 706.2449 Kambah Pool-Nerreman  
## 389 839.7835 Kambah Pool-Nerreman  
## 390 836.8509 Kambah Pool-Nerreman  
## 391 762.5008 Kambah Pool-Nerreman  
## 392 803.7283 Kambah Pool-Nerreman  
## 393 714.5188 Kambah Pool-Nerreman  
## 394 675.1953 Kambah Pool-Nerreman  
## 395 799.5609 Kambah Pool-Nerreman  
## 396 746.3284 Kambah Pool-Nerreman  
## 397 769.2444 Kambah Pool-Nerreman  
## 398 686.1508 Kambah Pool-Nerreman  
## 399 766.0036 Kambah Pool-Nerreman  
## 400 749.3176 Kambah Pool-Nerreman  
## 401 730.9430 Kambah Pool-Nerreman  
## 402 736.7762 Kambah Pool-Nerreman  
## 403 678.4761 Kambah Pool-Nerreman  
## 404 834.7302 Kambah Pool-Nerreman  
## 405 811.4560 Kambah Pool-Tharwa Sandwash  
## 406 675.8532 Kambah Pool-Lanyon  
## 407 854.1929 Kambah Pool-Lanyon  
## 408 837.8887 Kambah Pool-Lanyon  
## 409 859.7520 Kambah Pool-Lanyon  
## 410 720.7626 Kambah Pool-Nerreman  
## 411 815.5087 Kambah Pool-Nerreman  
## 412 764.3697 Kambah Pool-Nerreman  
## 413 685.9860 Kambah Pool-Nerreman  
## 414 670.5517 Kambah Pool-Tharwa Sandwash  
## 415 887.2455 Kambah Pool-Tharwa Sandwash  
## 416 659.8396 Kambah Pool-Tharwa Sandwash  
## 417 785.0870 Kambah Pool-Nerreman  
## 418 689.7663 Kambah Pool-Bullen Range  
## 419 783.7618 Kambah Pool-Bullen Range  
## 420 708.4169 Kambah Pool-Bullen Range  
## 421 637.0880 Kambah Pool-Bullen Range  
## 422 724.1584 Kambah Pool-Bullen Range  
## 423 620.5359 Kambah Pool-Bullen Range  
## 424 708.2171 Kambah Pool-Bullen Range  
## 425 752.4260 Kambah Pool-Bullen Range  
## 426 805.2038 Kambah Pool-Bullen Range  
## 427 646.3213 Kambah Pool-Bullen Range  
## 428 768.5533 Kambah Pool-Bullen Range  
## 429 731.9917 Kambah Pool-Bullen Range  
## 430 765.4551 Kambah Pool-Bullen Range  
## 431 715.8523 Kambah Pool-Bullen Range  
## 432 871.7156 Kambah Pool-Bullen Range  
## 433 802.9393 Kambah Pool-Bullen Range  
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## 436 698.6741 Kambah Pool-Bullen Range  
## 437 650.0819 Kambah Pool-Bullen Range  
## 438 678.1736 Kambah Pool-Bullen Range  
## 439 697.8867 Kambah Pool-Bullen Range  
## 440 746.9373 Kambah Pool-Bullen Range  
## 441 603.3222 Kambah Pool-Bullen Range  
## 442 774.2055 Kambah Pool-Bullen Range  
## 443 625.5033 Kambah Pool-Bullen Range  
## 444 803.3145 Kambah Pool-Bullen Range  
## 445 732.6593 Kambah Pool-Bullen Range  
## 446 727.6617 Kambah Pool-Bullen Range  
## 447 571.0082 Kambah Pool-Bullen Range  
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## 449 694.2192 Kambah Pool-Bullen Range  
## 450 758.7692 Kambah Pool-Bullen Range  
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## 452 662.5240 Kambah Pool-Lanyon  
## 453 745.4861 Kambah Pool-Lanyon  
## 454 919.8377 Kambah Pool-Lanyon  
## 455 738.3222 Kambah Pool-Lanyon  
## 456 676.0342 Kambah Pool-Lanyon  
## 457 629.7545 Kambah Pool-Lanyon  
## 458 799.0896 Kambah Pool-Lanyon  
## 459 716.2246 Kambah Pool-Lanyon  
## 460 658.3068 Kambah Pool-Lanyon  
## 461 661.5112 Kambah Pool-Lanyon  
## 462 724.4457 Kambah Pool-Lanyon  
## 463 683.3723 Kambah Pool-Lanyon  
## 464 684.8645 Kambah Pool-Lanyon  
## 465 813.4094 Kambah Pool-Lanyon  
## 466 777.0571 Kambah Pool-Lanyon  
## 467 704.1014 Kambah Pool-Lanyon  
## 468 775.3894 Kambah Pool-Murramore  
## 469 709.7842 Kambah Pool-Murramore  
## 470 729.9539 Kambah Pool-Murramore  
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## 484 851.2916 Kambah Pool-Murramore  
## 485 794.5164 Kambah Pool-Murramore  
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## 487 730.8994 Kambah Pool-Nerreman  
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## 508 767.4176 Kambah Pool-Nerreman  
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## 522 758.3804 Kambah Pool-Tharwa Sandwash  
## 523 759.1258 Kambah Pool-Tharwa Sandwash  
## 524 772.0333 Kambah Pool-Tharwa Sandwash  
## 525 768.3830 Kambah Pool-Tharwa Sandwash  
## 526 682.3812 Kambah Pool-Tharwa Sandwash  
## 527 774.4106 Kambah Pool-Tharwa Sandwash  
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## 530 702.1996 Kambah Pool-Tharwa Sandwash  
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## 561 718.8775 Kambah Pool-Tharwa Sandwash  
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## 563 879.7889 Kambah Pool-Tharwa Sandwash  
## 564 765.6963 Kambah Pool-Tharwa Sandwash  
## 565 754.8094 Kambah Pool-Tharwa Sandwash  
## 566 782.6563 Kambah Pool-Tharwa Sandwash  
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## 576 642.3045 Kambah Pool-Bullen Range  
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## 579 802.4443 Kambah Pool-Nerreman  
## 580 792.6320 Kambah Pool-Nerreman  
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## 586 800.7302 Kambah Pool-Nerreman  
## 587 728.4628 Kambah Pool-Nerreman  
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## 589 697.7972 Kambah Pool-Nerreman  
## 590 676.7266 Kambah Pool-Nerreman  
## 591 726.9332 Kambah Pool-Nerreman  
## 592 630.1396 Kambah Pool-Nerreman  
## 593 754.3633 Kambah Pool-Nerreman  
## 594 802.9275 Kambah Pool-Tharwa Sandwash  
## 595 609.3476 Kambah Pool-Lanyon  
## 596 801.4863 Kambah Pool-Lanyon  
## 597 755.3384 Kambah Pool-Lanyon  
## 598 769.9132 Kambah Pool-Lanyon  
## 599 660.8187 Kambah Pool-Nerreman  
## 600 694.1228 Kambah Pool-Nerreman  
## 601 729.4671 Kambah Pool-Nerreman  
## 602 583.5884 Kambah Pool-Nerreman  
## 603 693.0627 Kambah Pool-Tharwa Sandwash  
## 604 925.4432 Kambah Pool-Tharwa Sandwash  
## 605 593.5727 Kambah Pool-Tharwa Sandwash  
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## 607 593.9471 Kambah Pool-Bullen Range  
## 608 685.8083 Kambah Pool-Bullen Range  
## 609 708.9687 Kambah Pool-Bullen Range  
## 610 575.0891 Kambah Pool-Bullen Range  
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## 782 810.9140 Kambah Pool-Nerreman  
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## 791 681.9299 Kambah Pool-Nerreman  
## 792 769.5921 Kambah Pool-Tharwa Sandwash  
## 793 954.4332 Kambah Pool-Tharwa Sandwash  
## 794 823.2628 Kambah Pool-Tharwa Sandwash  
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## 842 727.1275 Kambah Pool-Lanyon  
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## 844 736.2691 Kambah Pool-Lanyon  
## 845 668.9782 Kambah Pool-Lanyon  
## 846 760.9740 Kambah Pool-Murramore  
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## 860 760.8467 Kambah Pool-Murramore  
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## 862 867.7203 Kambah Pool-Murramore  
## 863 785.3865 Kambah Pool-Murramore  
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## 871 768.9798 Kambah Pool-Nerreman  
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## 878 773.3213 Kambah Pool-Nerreman  
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## 893 733.5868 Kambah Pool-Nerreman  
## 894 692.1741 Kambah Pool-Nerreman  
## 895 705.4401 Kambah Pool-Nerreman  
## 896 861.5214 Kambah Pool-Nerreman  
## 897 913.1437 Kambah Pool-Tharwa Sandwash  
## 898 879.3743 Kambah Pool-Tharwa Sandwash  
## 899 802.2695 Kambah Pool-Tharwa Sandwash  
## 900 759.0219 Kambah Pool-Tharwa Sandwash  
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## 903 776.6708 Kambah Pool-Tharwa Sandwash  
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## 933 815.1363 Kambah Pool-Tharwa Sandwash  
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## 935 769.9208 Kambah Pool-Tharwa Sandwash  
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## 968 692.4392 Kambah Pool-Nerreman  
## 969 694.2078 Kambah Pool-Nerreman  
## 970 569.2224 Kambah Pool-Nerreman  
## 971 794.9822 Kambah Pool-Nerreman  
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## 973 674.9616 Kambah Pool-Lanyon  
## 974 744.8102 Kambah Pool-Lanyon  
## 975 729.7129 Kambah Pool-Lanyon  
## 976 765.6678 Kambah Pool-Lanyon  
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## 979 617.6073 Kambah Pool-Nerreman  
## 980 577.8797 Kambah Pool-Nerreman  
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## 982 859.6573 Kambah Pool-Tharwa Sandwash  
## 983 636.0071 Kambah Pool-Tharwa Sandwash  
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## 1280 821.5536 Bullen Range-Nerreman  
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## 1284 714.8938 Bullen Range-Tharwa Sandwash  
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## 1293 747.1443 Bullen Range-Tharwa Sandwash  
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## 1295 738.7154 Bullen Range-Tharwa Sandwash  
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## 1319 691.8679 Bullen Range-Tharwa Sandwash  
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## 1352 910.3121 Bullen Range-Nerreman  
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## 1354 786.6690 Bullen Range-Tharwa Sandwash  
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## 1366 786.4111 Bullen Range-Kambah Pool  
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## 1376 866.2522 Bullen Range-Lanyon  
## 1377 823.7389 Bullen Range-Lanyon  
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## 1389 1009.8480 Bullen Range-Tharwa Sandwash  
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## 1714 615.7514 Bullen Range-Tharwa Sandwash  
## 1715 640.2825 Bullen Range-Tharwa Sandwash  
## 1716 554.8931 Bullen Range-Tharwa Sandwash  
## 1717 703.8598 Bullen Range-Tharwa Sandwash  
## 1718 638.9338 Bullen Range-Tharwa Sandwash  
## 1719 620.7448 Bullen Range-Tharwa Sandwash  
## 1720 658.1077 Bullen Range-Kambah Pool  
## 1721 610.5225 Bullen Range-Kambah Pool  
## 1722 832.6791 Bullen Range-Kambah Pool  
## 1723 688.0767 Bullen Range-Kambah Pool  
## 1724 594.0243 Bullen Range-Kambah Pool  
## 1725 547.4310 Bullen Range-Kambah Pool  
## 1726 804.0844 Bullen Range-Nerreman  
## 1727 930.8018 Bullen Range-Nerreman  
## 1728 756.7764 Bullen Range-Nerreman  
## 1729 858.4509 Bullen Range-Nerreman  
## 1730 801.5958 Bullen Range-Nerreman  
## 1731 790.0166 Bullen Range-Nerreman  
## 1732 583.7670 Bullen Range-Nerreman  
## 1733 843.4243 Bullen Range-Nerreman  
## 1734 721.7294 Bullen Range-Nerreman  
## 1735 818.1464 Bullen Range-Nerreman  
## 1736 819.7377 Bullen Range-Nerreman  
## 1737 780.0048 Bullen Range-Nerreman  
## 1738 763.3914 Bullen Range-Nerreman  
## 1739 854.9432 Bullen Range-Nerreman  
## 1740 860.7887 Bullen Range-Nerreman  
## 1741 643.2165 Bullen Range-Nerreman  
## 1742 880.8585 Bullen Range-Nerreman  
## 1743 875.1291 Bullen Range-Kambah Pool  
## 1744 934.5870 Bullen Range-Tharwa Sandwash  
## 1745 749.1236 Bullen Range-Kambah Pool  
## 1746 844.4956 Bullen Range-Kambah Pool  
## 1747 746.3770 Bullen Range-Kambah Pool  
## 1748 572.5902 Bullen Range-Kambah Pool  
## 1749 719.4586 Bullen Range-Kambah Pool  
## 1750 885.3827 Bullen Range-Kambah Pool  
## 1751 884.2190 Bullen Range-Kambah Pool  
## 1752 689.0438 Bullen Range-Kambah Pool  
## 1753 801.3462 Bullen Range-Kambah Pool  
## 1754 797.3234 Bullen Range-Kambah Pool  
## 1755 875.5243 Bullen Range-Kambah Pool  
## 1756 712.3350 Bullen Range-Kambah Pool  
## 1757 841.7507 Bullen Range-Kambah Pool  
## 1758 733.1768 Bullen Range-Kambah Pool  
## 1759 750.3068 Bullen Range-Kambah Pool  
## 1760 843.5894 Bullen Range-Kambah Pool  
## 1761 1011.3697 Bullen Range-Kambah Pool  
## 1762 725.4466 Bullen Range-Kambah Pool  
## 1763 704.5135 Bullen Range-Kambah Pool  
## 1764 927.8214 Bullen Range-Kambah Pool  
## 1765 735.8038 Bullen Range-Lanyon  
## 1766 868.3216 Bullen Range-Lanyon  
## 1767 928.4902 Bullen Range-Lanyon  
## 1768 791.7538 Bullen Range-Lanyon  
## 1769 778.1817 Bullen Range-Kambah Pool  
## 1770 658.3240 Bullen Range-Kambah Pool  
## 1771 668.9389 Bullen Range-Kambah Pool  
## 1772 706.4367 Bullen Range-Kambah Pool  
## 1773 876.0360 Bullen Range-Kambah Pool  
## 1774 849.8169 Bullen Range-Nerreman  
## 1775 647.6783 Bullen Range-Nerreman  
## 1776 707.8558 Bullen Range-Nerreman  
## 1777 585.5882 Bullen Range-Nerreman  
## 1778 739.4000 Bullen Range-Tharwa Sandwash  
## 1779 1049.5178 Bullen Range-Tharwa Sandwash  
## 1780 774.2425 Bullen Range-Kambah Pool  
## 1781 776.2989 Bullen Range-Kambah Pool  
## 1782 742.1448 Bullen Range-Kambah Pool  
## 1783 851.6496 Bullen Range-Kambah Pool  
## 1784 875.0208 Bullen Range-Kambah Pool  
## 1785 803.1984 Bullen Range-Kambah Pool  
## 1786 737.6640 Bullen Range-Kambah Pool  
## 1787 838.1085 Bullen Range-Kambah Pool  
## 1788 764.7852 Bullen Range-Kambah Pool  
## 1789 918.5616 Bullen Range-Kambah Pool  
## 1790 673.6453 Bullen Range-Tharwa Sandwash  
## 1791 788.6858 Bullen Range-Nerreman  
## 1792 809.7069 Bullen Range-Kambah Pool  
## 1793 763.5757 Bullen Range-Kambah Pool  
## 1794 832.4750 Bullen Range-Kambah Pool  
## 1795 741.2949 Bullen Range-Kambah Pool  
## 1796 675.0280 Bullen Range-Kambah Pool  
## 1797 799.6201 Bullen Range-Kambah Pool  
## 1798 715.6782 Bullen Range-Lanyon  
## 1799 758.8443 Bullen Range-Lanyon  
## 1800 844.6839 Bullen Range-Lanyon  
## 1801 906.2092 Bullen Range-Lanyon  
## 1802 819.7377 Bullen Range-Lanyon  
## 1803 858.6932 Bullen Range-Lanyon  
## 1804 709.7130 Bullen Range-Lanyon  
## 1805 852.4905 Bullen Range-Lanyon  
## 1806 689.3934 Bullen Range-Lanyon  
## 1807 736.7583 Bullen Range-Lanyon  
## 1808 668.7966 Bullen Range-Lanyon  
## 1809 817.9168 Bullen Range-Lanyon  
## 1810 677.1375 Bullen Range-Lanyon  
## 1811 846.5536 Bullen Range-Lanyon  
## 1812 914.9422 Bullen Range-Lanyon  
## 1813 806.1337 Bullen Range-Lanyon  
## 1814 762.4307 Bullen Range-Lanyon  
## 1815 849.3906 Bullen Range-Murramore  
## 1816 864.2157 Bullen Range-Murramore  
## 1817 780.3280 Bullen Range-Murramore  
## 1818 794.3268 Bullen Range-Murramore  
## 1819 706.5242 Bullen Range-Murramore  
## 1820 691.4862 Bullen Range-Murramore  
## 1821 725.3232 Bullen Range-Murramore  
## 1822 664.7552 Bullen Range-Murramore  
## 1823 833.5797 Bullen Range-Murramore  
## 1824 603.0597 Bullen Range-Murramore  
## 1825 913.4865 Bullen Range-Murramore  
## 1826 796.4671 Bullen Range-Murramore  
## 1827 713.2010 Bullen Range-Murramore  
## 1828 730.6692 Bullen Range-Murramore  
## 1829 792.6088 Bullen Range-Murramore  
## 1830 912.0421 Bullen Range-Murramore  
## 1831 908.2563 Bullen Range-Murramore  
## 1832 742.4427 Bullen Range-Murramore  
## 1833 858.2179 Bullen Range-Nerreman  
## 1834 737.6672 Bullen Range-Nerreman  
## 1835 729.7191 Bullen Range-Nerreman  
## 1836 787.0548 Bullen Range-Nerreman  
## 1837 752.7046 Bullen Range-Nerreman  
## 1838 825.6893 Bullen Range-Nerreman  
## 1839 724.3943 Bullen Range-Nerreman  
## 1840 641.5297 Bullen Range-Nerreman  
## 1841 717.4967 Bullen Range-Nerreman  
## 1842 901.0578 Bullen Range-Nerreman  
## 1843 788.6763 Bullen Range-Nerreman  
## 1844 666.8540 Bullen Range-Nerreman  
## 1845 739.7816 Bullen Range-Nerreman  
## 1846 906.2332 Bullen Range-Nerreman  
## 1847 762.4262 Bullen Range-Nerreman  
## 1848 679.0445 Bullen Range-Nerreman  
## 1849 578.5587 Bullen Range-Nerreman  
## 1850 765.5991 Bullen Range-Nerreman  
## 1851 750.0374 Bullen Range-Nerreman  
## 1852 837.3250 Bullen Range-Nerreman  
## 1853 662.1140 Bullen Range-Nerreman  
## 1854 669.7581 Bullen Range-Nerreman  
## 1855 752.5936 Bullen Range-Nerreman  
## 1856 670.9512 Bullen Range-Nerreman  
## 1857 629.9626 Bullen Range-Nerreman  
## 1858 714.2979 Bullen Range-Nerreman  
## 1859 702.9043 Bullen Range-Nerreman  
## 1860 661.8401 Bullen Range-Nerreman  
## 1861 712.7007 Bullen Range-Nerreman  
## 1862 665.9404 Bullen Range-Nerreman  
## 1863 626.8690 Bullen Range-Nerreman  
## 1864 645.1920 Bullen Range-Nerreman  
## 1865 735.6414 Bullen Range-Nerreman  
## 1866 952.6436 Bullen Range-Tharwa Sandwash  
## 1867 698.9165 Bullen Range-Tharwa Sandwash  
## 1868 746.4769 Bullen Range-Tharwa Sandwash  
## 1869 763.3243 Bullen Range-Tharwa Sandwash  
## 1870 831.1362 Bullen Range-Tharwa Sandwash  
## 1871 965.4269 Bullen Range-Tharwa Sandwash  
## 1872 893.3532 Bullen Range-Tharwa Sandwash  
## 1873 806.4125 Bullen Range-Tharwa Sandwash  
## 1874 943.7830 Bullen Range-Tharwa Sandwash  
## 1875 855.6002 Bullen Range-Tharwa Sandwash  
## 1876 838.0739 Bullen Range-Tharwa Sandwash  
## 1877 898.0391 Bullen Range-Tharwa Sandwash  
## 1878 805.6145 Bullen Range-Tharwa Sandwash  
## 1879 823.1513 Bullen Range-Tharwa Sandwash  
## 1880 904.4651 Bullen Range-Tharwa Sandwash  
## 1881 934.8622 Bullen Range-Tharwa Sandwash  
## 1882 878.2608 Bullen Range-Tharwa Sandwash  
## 1883 961.3405 Bullen Range-Tharwa Sandwash  
## 1884 793.7143 Bullen Range-Tharwa Sandwash  
## 1885 836.2949 Bullen Range-Tharwa Sandwash  
## 1886 749.6109 Bullen Range-Tharwa Sandwash  
## 1887 701.2719 Bullen Range-Tharwa Sandwash  
## 1888 848.6568 Bullen Range-Tharwa Sandwash  
## 1889 861.5390 Bullen Range-Tharwa Sandwash  
## 1890 670.7892 Bullen Range-Tharwa Sandwash  
## 1891 660.3210 Bullen Range-Tharwa Sandwash  
## 1892 675.5801 Bullen Range-Tharwa Sandwash  
## 1893 951.3777 Bullen Range-Tharwa Sandwash  
## 1894 743.0935 Bullen Range-Tharwa Sandwash  
## 1895 735.8234 Bullen Range-Tharwa Sandwash  
## 1896 958.0415 Bullen Range-Tharwa Sandwash  
## 1897 642.9086 Bullen Range-Tharwa Sandwash  
## 1898 776.2832 Bullen Range-Tharwa Sandwash  
## 1899 694.5000 Bullen Range-Tharwa Sandwash  
## 1900 842.5499 Bullen Range-Tharwa Sandwash  
## 1901 787.1256 Bullen Range-Tharwa Sandwash  
## 1902 765.6824 Bullen Range-Tharwa Sandwash  
## 1903 627.1378 Bullen Range-Tharwa Sandwash  
## 1904 714.7568 Bullen Range-Tharwa Sandwash  
## 1905 764.7935 Bullen Range-Tharwa Sandwash  
## 1906 899.0220 Bullen Range-Tharwa Sandwash  
## 1907 958.4181 Bullen Range-Tharwa Sandwash  
## 1908 746.6929 Bullen Range-Tharwa Sandwash  
## 1909 890.0083 Bullen Range-Tharwa Sandwash  
## 1910 871.1825 Bullen Range-Tharwa Sandwash  
## 1911 841.2771 Bullen Range-Tharwa Sandwash  
## 1912 792.9591 Bullen Range-Tharwa Sandwash  
## 1913 827.9356 Bullen Range-Tharwa Sandwash  
## 1914 718.9131 Bullen Range-Tharwa Sandwash  
## 1915 593.9957 Bullen Range-Kambah Pool  
## 1916 594.4993 Bullen Range-Kambah Pool  
## 1917 734.4868 Bullen Range-Kambah Pool  
## 1918 817.6009 Bullen Range-Kambah Pool  
## 1919 479.5861 Bullen Range-Kambah Pool  
## 1920 553.8725 Bullen Range-Kambah Pool  
## 1921 702.1061 Bullen Range-Nerreman  
## 1922 805.6640 Bullen Range-Nerreman  
## 1923 779.7895 Bullen Range-Nerreman  
## 1924 808.8565 Bullen Range-Nerreman  
## 1925 640.8292 Bullen Range-Nerreman  
## 1926 653.1135 Bullen Range-Nerreman  
## 1927 662.4954 Bullen Range-Nerreman  
## 1928 761.7731 Bullen Range-Nerreman  
## 1929 701.1529 Bullen Range-Nerreman  
## 1930 650.8841 Bullen Range-Nerreman  
## 1931 653.3856 Bullen Range-Nerreman  
## 1932 698.0672 Bullen Range-Nerreman  
## 1933 732.8658 Bullen Range-Nerreman  
## 1934 679.1305 Bullen Range-Nerreman  
## 1935 704.2817 Bullen Range-Nerreman  
## 1936 668.7778 Bullen Range-Nerreman  
## 1937 767.1006 Bullen Range-Nerreman  
## 1938 799.5842 Bullen Range-Kambah Pool  
## 1939 674.4692 Bullen Range-Tharwa Sandwash  
## 1940 804.1855 Bullen Range-Kambah Pool  
## 1941 637.4448 Bullen Range-Kambah Pool  
## 1942 687.2065 Bullen Range-Kambah Pool  
## 1943 571.6820 Bullen Range-Kambah Pool  
## 1944 705.8420 Bullen Range-Kambah Pool  
## 1945 762.5661 Bullen Range-Kambah Pool  
## 1946 795.4149 Bullen Range-Kambah Pool  
## 1947 727.0019 Bullen Range-Kambah Pool  
## 1948 705.4012 Bullen Range-Kambah Pool  
## 1949 704.8967 Bullen Range-Kambah Pool  
## 1950 836.3112 Bullen Range-Kambah Pool  
## 1951 789.1130 Bullen Range-Kambah Pool  
## 1952 763.0182 Bullen Range-Kambah Pool  
## 1953 713.7176 Bullen Range-Kambah Pool  
## 1954 643.9984 Bullen Range-Kambah Pool  
## 1955 753.8056 Bullen Range-Kambah Pool  
## 1956 690.4818 Bullen Range-Kambah Pool  
## 1957 695.2065 Bullen Range-Kambah Pool  
## 1958 688.5117 Bullen Range-Kambah Pool  
## 1959 727.6484 Bullen Range-Kambah Pool  
## 1960 689.8503 Bullen Range-Lanyon  
## 1961 817.8076 Bullen Range-Lanyon  
## 1962 789.8128 Bullen Range-Lanyon  
## 1963 893.1606 Bullen Range-Lanyon  
## 1964 745.9804 Bullen Range-Kambah Pool  
## 1965 637.2007 Bullen Range-Kambah Pool  
## 1966 675.8602 Bullen Range-Kambah Pool  
## 1967 665.1923 Bullen Range-Kambah Pool  
## 1968 614.5189 Bullen Range-Kambah Pool  
## 1969 661.9514 Bullen Range-Nerreman  
## 1970 724.6957 Bullen Range-Nerreman  
## 1971 610.7980 Bullen Range-Nerreman  
## 1972 688.0529 Bullen Range-Nerreman  
## 1973 711.5618 Bullen Range-Tharwa Sandwash  
## 1974 990.9959 Bullen Range-Tharwa Sandwash  
## 1975 752.4906 Bullen Range-Kambah Pool  
## 1976 638.9400 Bullen Range-Kambah Pool  
## 1977 686.6125 Bullen Range-Kambah Pool  
## 1978 784.5384 Bullen Range-Kambah Pool  
## 1979 714.2488 Bullen Range-Kambah Pool  
## 1980 699.3118 Bullen Range-Kambah Pool  
## 1981 660.3357 Bullen Range-Kambah Pool  
## 1982 653.7703 Bullen Range-Kambah Pool  
## 1983 630.9941 Bullen Range-Kambah Pool  
## 1984 761.3545 Bullen Range-Kambah Pool  
## 1985 658.7010 Bullen Range-Tharwa Sandwash  
## 1986 670.3882 Bullen Range-Nerreman  
## 1987 752.9508 Bullen Range-Kambah Pool  
## 1988 702.8194 Bullen Range-Kambah Pool  
## 1989 738.6115 Bullen Range-Kambah Pool  
## 1990 745.2298 Bullen Range-Kambah Pool  
## 1991 599.0352 Bullen Range-Kambah Pool  
## 1992 736.7786 Bullen Range-Kambah Pool  
## 1993 726.5987 Bullen Range-Lanyon  
## 1994 685.4190 Bullen Range-Lanyon  
## 1995 690.5889 Bullen Range-Lanyon  
## 1996 780.1516 Bullen Range-Lanyon  
## 1997 746.6337 Bullen Range-Lanyon  
## 1998 718.2407 Bullen Range-Lanyon  
## 1999 564.6625 Bullen Range-Lanyon  
## 2000 706.2437 Bullen Range-Lanyon  
## 2001 612.5043 Bullen Range-Lanyon  
## 2002 656.9915 Bullen Range-Lanyon  
## 2003 658.9243 Bullen Range-Lanyon  
## 2004 726.9944 Bullen Range-Lanyon  
## 2005 694.7506 Bullen Range-Lanyon  
## 2006 740.1302 Bullen Range-Lanyon  
## 2007 732.9522 Bullen Range-Lanyon  
## 2008 695.7442 Bullen Range-Lanyon  
## 2009 706.3959 Bullen Range-Lanyon  
## 2010 768.1744 Bullen Range-Murramore  
## 2011 700.2533 Bullen Range-Murramore  
## 2012 733.1395 Bullen Range-Murramore  
## 2013 686.2543 Bullen Range-Murramore  
## 2014 610.5254 Bullen Range-Murramore  
## 2015 721.4205 Bullen Range-Murramore  
## 2016 679.3523 Bullen Range-Murramore  
## 2017 704.2360 Bullen Range-Murramore  
## 2018 748.9618 Bullen Range-Murramore  
## 2019 662.4638 Bullen Range-Murramore  
## 2020 783.2527 Bullen Range-Murramore  
## 2021 692.1981 Bullen Range-Murramore  
## 2022 643.3816 Bullen Range-Murramore  
## 2023 737.2385 Bullen Range-Murramore  
## 2024 790.9471 Bullen Range-Murramore  
## 2025 834.4518 Bullen Range-Murramore  
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## 2027 774.0754 Bullen Range-Murramore  
## 2028 861.6994 Bullen Range-Nerreman  
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## 2033 752.1041 Bullen Range-Nerreman  
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## 2036 745.7197 Bullen Range-Nerreman  
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## 2041 924.9891 Bullen Range-Nerreman  
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## 2047 750.0436 Bullen Range-Nerreman  
## 2048 660.7294 Bullen Range-Nerreman  
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## 2061 816.2082 Bullen Range-Tharwa Sandwash  
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## 2081 730.8896 Bullen Range-Tharwa Sandwash  
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## 2083 786.0530 Bullen Range-Tharwa Sandwash  
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## 2095 829.0366 Bullen Range-Tharwa Sandwash  
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## 2097 711.6126 Bullen Range-Tharwa Sandwash  
## 2098 607.3360 Bullen Range-Tharwa Sandwash  
## 2099 650.0780 Bullen Range-Tharwa Sandwash  
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## 2101 889.0903 Bullen Range-Tharwa Sandwash  
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## 2105 762.1679 Bullen Range-Tharwa Sandwash  
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## 2108 740.3513 Bullen Range-Tharwa Sandwash  
## 2109 734.4868 Bullen Range-Tharwa Sandwash  
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## 2111 717.0877 Bullen Range-Kambah Pool  
## 2112 738.8941 Bullen Range-Kambah Pool  
## 2113 718.8806 Bullen Range-Kambah Pool  
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## 2115 638.9087 Bullen Range-Kambah Pool  
## 2116 707.2751 Bullen Range-Nerreman  
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## 2118 738.5782 Bullen Range-Nerreman  
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## 2120 710.2931 Bullen Range-Nerreman  
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## 2123 707.3257 Bullen Range-Nerreman  
## 2124 665.4389 Bullen Range-Nerreman  
## 2125 676.5609 Bullen Range-Nerreman  
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## 2127 622.5359 Bullen Range-Nerreman  
## 2128 632.1127 Bullen Range-Nerreman  
## 2129 679.3021 Bullen Range-Nerreman  
## 2130 673.0234 Bullen Range-Nerreman  
## 2131 640.8188 Bullen Range-Nerreman  
## 2132 750.9018 Bullen Range-Nerreman  
## 2133 785.4703 Bullen Range-Kambah Pool  
## 2134 633.8155 Bullen Range-Tharwa Sandwash  
## 2135 685.5412 Bullen Range-Kambah Pool  
## 2136 624.4664 Bullen Range-Kambah Pool  
## 2137 585.2306 Bullen Range-Kambah Pool  
## 2138 757.7874 Bullen Range-Kambah Pool  
## 2139 832.9042 Bullen Range-Kambah Pool  
## 2140 735.9984 Bullen Range-Kambah Pool  
## 2141 699.6444 Bullen Range-Kambah Pool  
## 2142 730.0077 Bullen Range-Kambah Pool  
## 2143 749.5246 Bullen Range-Kambah Pool  
## 2144 715.3516 Bullen Range-Kambah Pool  
## 2145 641.0769 Bullen Range-Kambah Pool  
## 2146 667.8759 Bullen Range-Kambah Pool  
## 2147 634.0914 Bullen Range-Kambah Pool  
## 2148 657.9902 Bullen Range-Kambah Pool  
## 2149 880.3280 Bullen Range-Kambah Pool  
## 2150 717.8054 Bullen Range-Kambah Pool  
## 2151 803.6901 Bullen Range-Kambah Pool  
## 2152 716.5985 Bullen Range-Kambah Pool  
## 2153 643.5521 Bullen Range-Kambah Pool  
## 2154 734.0331 Bullen Range-Kambah Pool  
## 2155 574.7586 Bullen Range-Lanyon  
## 2156 641.7788 Bullen Range-Lanyon  
## 2157 691.3432 Bullen Range-Lanyon  
## 2158 693.0944 Bullen Range-Lanyon  
## 2159 689.8638 Bullen Range-Kambah Pool  
## 2160 704.0063 Bullen Range-Kambah Pool  
## 2161 703.4994 Bullen Range-Kambah Pool  
## 2162 657.0703 Bullen Range-Kambah Pool  
## 2163 738.3316 Bullen Range-Kambah Pool  
## 2164 676.1607 Bullen Range-Nerreman  
## 2165 676.3734 Bullen Range-Nerreman  
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## 2167 737.4366 Bullen Range-Nerreman  
## 2168 760.9448 Bullen Range-Tharwa Sandwash  
## 2169 788.4196 Bullen Range-Tharwa Sandwash  
## 2170 750.0278 Bullen Range-Kambah Pool  
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## 2180 680.0765 Bullen Range-Tharwa Sandwash  
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## 2189 635.7210 Bullen Range-Lanyon  
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## 2192 649.8836 Bullen Range-Lanyon  
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## 2722 765.6115 Bullen Range-Kambah Pool  
## 2723 577.1245 Bullen Range-Kambah Pool  
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## 3042 683.3035 Kambah Pool-Tharwa Sandwash  
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## 3045 699.7693 Kambah Pool-Tharwa Sandwash  
## 3046 627.3815 Kambah Pool-Tharwa Sandwash  
## 3047 781.7772 Kambah Pool-Tharwa Sandwash  
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## 3049 694.5000 Kambah Pool-Tharwa Sandwash  
## 3050 668.9235 Kambah Pool-Tharwa Sandwash  
## 3051 696.3133 Kambah Pool-Tharwa Sandwash  
## 3052 612.6293 Kambah Pool-Tharwa Sandwash  
## 3053 677.9800 Kambah Pool-Tharwa Sandwash  
## 3054 667.1994 Kambah Pool-Tharwa Sandwash  
## 3055 806.6623 Kambah Pool-Tharwa Sandwash  
## 3056 734.4288 Kambah Pool-Tharwa Sandwash  
## 3057 776.0605 Kambah Pool-Tharwa Sandwash  
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## 3066 720.1986 Kambah Pool-Tharwa Sandwash  
## 3067 710.1551 Kambah Pool-Tharwa Sandwash  
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## 3069 718.0911 Kambah Pool-Tharwa Sandwash  
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## 3084 723.1236 Kambah Pool-Nerreman  
## 3085 663.9391 Kambah Pool-Nerreman  
## 3086 728.0701 Kambah Pool-Nerreman  
## 3087 729.7469 Kambah Pool-Tharwa Sandwash  
## 3088 681.0581 Kambah Pool-Lanyon  
## 3089 790.8058 Kambah Pool-Lanyon  
## 3090 779.4271 Kambah Pool-Lanyon  
## 3091 736.1700 Kambah Pool-Lanyon  
## 3092 687.5201 Kambah Pool-Nerreman  
## 3093 707.0238 Kambah Pool-Nerreman  
## 3094 621.8879 Kambah Pool-Nerreman  
## 3095 611.6697 Kambah Pool-Nerreman  
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## 3097 862.2639 Kambah Pool-Tharwa Sandwash  
## 3098 652.0150 Kambah Pool-Tharwa Sandwash  
## 3099 678.9409 Kambah Pool-Nerreman  
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## 3449 807.7355 Kambah Pool-Lanyon  
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## 3892 624.1251 Kambah Pool-Nerreman  
## 3893 730.9052 Kambah Pool-Nerreman  
## 3894 654.0766 Kambah Pool-Nerreman  
## 3895 608.9255 Kambah Pool-Nerreman  
## 3896 632.2894 Kambah Pool-Nerreman  
## 3897 692.9096 Kambah Pool-Nerreman  
## 3898 621.8271 Kambah Pool-Nerreman  
## 3899 625.9543 Kambah Pool-Nerreman  
## 3900 715.8748 Kambah Pool-Nerreman  
## 3901 845.3574 Kambah Pool-Nerreman  
## 3902 642.1650 Kambah Pool-Nerreman  
## 3903 646.5797 Kambah Pool-Nerreman  
## 3904 599.8059 Kambah Pool-Nerreman  
## 3905 618.8458 Kambah Pool-Nerreman  
## 3906 664.1977 Kambah Pool-Nerreman  
## 3907 698.5461 Kambah Pool-Nerreman  
## 3908 636.5431 Kambah Pool-Nerreman  
## 3909 672.3613 Kambah Pool-Nerreman  
## 3910 678.7750 Kambah Pool-Nerreman  
## 3911 582.5709 Kambah Pool-Nerreman  
## 3912 653.3420 Kambah Pool-Nerreman  
## 3913 672.9410 Kambah Pool-Nerreman  
## 3914 643.9389 Kambah Pool-Nerreman  
## 3915 633.8065 Kambah Pool-Nerreman  
## 3916 703.3423 Kambah Pool-Nerreman  
## 3917 619.1588 Kambah Pool-Nerreman  
## 3918 579.5786 Kambah Pool-Nerreman  
## 3919 592.6661 Kambah Pool-Nerreman  
## 3920 787.2458 Kambah Pool-Nerreman  
## 3921 726.7677 Kambah Pool-Tharwa Sandwash  
## 3922 684.1569 Kambah Pool-Tharwa Sandwash  
## 3923 638.3236 Kambah Pool-Tharwa Sandwash  
## 3924 637.8864 Kambah Pool-Tharwa Sandwash  
## 3925 719.8898 Kambah Pool-Tharwa Sandwash  
## 3926 813.8910 Kambah Pool-Tharwa Sandwash  
## 3927 664.7709 Kambah Pool-Tharwa Sandwash  
## 3928 668.3473 Kambah Pool-Tharwa Sandwash  
## 3929 767.0559 Kambah Pool-Tharwa Sandwash  
## 3930 682.8714 Kambah Pool-Tharwa Sandwash  
## 3931 619.5397 Kambah Pool-Tharwa Sandwash  
## 3932 689.4601 Kambah Pool-Tharwa Sandwash  
## 3933 703.2526 Kambah Pool-Tharwa Sandwash  
## 3934 638.1362 Kambah Pool-Tharwa Sandwash  
## 3935 766.4091 Kambah Pool-Tharwa Sandwash  
## 3936 678.5082 Kambah Pool-Tharwa Sandwash  
## 3937 651.4488 Kambah Pool-Tharwa Sandwash  
## 3938 667.1348 Kambah Pool-Tharwa Sandwash  
## 3939 657.7070 Kambah Pool-Tharwa Sandwash  
## 3940 679.3769 Kambah Pool-Tharwa Sandwash  
## 3941 724.3222 Kambah Pool-Tharwa Sandwash  
## 3942 668.7946 Kambah Pool-Tharwa Sandwash  
## 3943 749.4012 Kambah Pool-Tharwa Sandwash  
## 3944 751.9398 Kambah Pool-Tharwa Sandwash  
## 3945 678.3488 Kambah Pool-Tharwa Sandwash  
## 3946 625.8483 Kambah Pool-Tharwa Sandwash  
## 3947 739.4555 Kambah Pool-Tharwa Sandwash  
## 3948 845.6354 Kambah Pool-Tharwa Sandwash  
## 3949 695.0125 Kambah Pool-Tharwa Sandwash  
## 3950 637.9256 Kambah Pool-Tharwa Sandwash  
## 3951 727.8350 Kambah Pool-Tharwa Sandwash  
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## 3953 661.3357 Kambah Pool-Tharwa Sandwash  
## 3954 598.4133 Kambah Pool-Tharwa Sandwash  
## 3955 869.2004 Kambah Pool-Tharwa Sandwash  
## 3956 682.5196 Kambah Pool-Tharwa Sandwash  
## 3957 688.2788 Kambah Pool-Tharwa Sandwash  
## 3958 655.0251 Kambah Pool-Tharwa Sandwash  
## 3959 615.0335 Kambah Pool-Tharwa Sandwash  
## 3960 633.6782 Kambah Pool-Tharwa Sandwash  
## 3961 803.1074 Kambah Pool-Tharwa Sandwash  
## 3962 854.7692 Kambah Pool-Tharwa Sandwash  
## 3963 611.9428 Kambah Pool-Tharwa Sandwash  
## 3964 754.5185 Kambah Pool-Tharwa Sandwash  
## 3965 768.3929 Kambah Pool-Tharwa Sandwash  
## 3966 707.1617 Kambah Pool-Tharwa Sandwash  
## 3967 658.2609 Kambah Pool-Tharwa Sandwash  
## 3968 688.4415 Kambah Pool-Tharwa Sandwash  
## 3969 572.4991 Kambah Pool-Tharwa Sandwash  
## 3970 806.8003 Nerreman-Kambah Pool  
## 3971 777.6672 Nerreman-Tharwa Sandwash  
## 3972 764.2042 Nerreman-Kambah Pool  
## 3973 791.4302 Nerreman-Kambah Pool  
## 3974 737.7856 Nerreman-Kambah Pool  
## 3975 716.2303 Nerreman-Kambah Pool  
## 3976 774.2155 Nerreman-Kambah Pool  
## 3977 818.8025 Nerreman-Kambah Pool  
## 3978 840.6631 Nerreman-Kambah Pool  
## 3979 876.1104 Nerreman-Kambah Pool  
## 3980 840.8705 Nerreman-Kambah Pool  
## 3981 795.7005 Nerreman-Kambah Pool  
## 3982 898.2110 Nerreman-Kambah Pool  
## 3983 810.5303 Nerreman-Kambah Pool  
## 3984 895.2903 Nerreman-Kambah Pool  
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## 3986 857.4725 Nerreman-Kambah Pool  
## 3987 762.2561 Nerreman-Kambah Pool  
## 3988 760.6760 Nerreman-Kambah Pool  
## 3989 635.0131 Nerreman-Kambah Pool  
## 3990 701.8477 Nerreman-Kambah Pool  
## 3991 859.6676 Nerreman-Kambah Pool  
## 3992 624.1481 Nerreman-Lanyon  
## 3993 817.9214 Nerreman-Lanyon  
## 3994 801.2850 Nerreman-Lanyon  
## 3995 746.4694 Nerreman-Lanyon  
## 3996 714.0690 Nerreman-Kambah Pool  
## 3997 833.5634 Nerreman-Kambah Pool  
## 3998 668.3594 Nerreman-Kambah Pool  
## 3999 758.5242 Nerreman-Kambah Pool  
## 4000 842.0994 Nerreman-Kambah Pool  
## 4001 747.9231 Nerreman-Tharwa Sandwash  
## 4002 897.7907 Nerreman-Tharwa Sandwash  
## 4003 836.0913 Nerreman-Kambah Pool  
## 4004 809.4173 Nerreman-Kambah Pool  
## 4005 681.4503 Nerreman-Kambah Pool  
## 4006 795.8378 Nerreman-Kambah Pool  
## 4007 765.1346 Nerreman-Kambah Pool  
## 4008 849.0042 Nerreman-Kambah Pool  
## 4009 783.7828 Nerreman-Kambah Pool  
## 4010 792.9561 Nerreman-Kambah Pool  
## 4011 748.3987 Nerreman-Kambah Pool  
## 4012 880.6340 Nerreman-Kambah Pool  
## 4013 795.7626 Nerreman-Tharwa Sandwash  
## 4014 780.0838 Nerreman-Bullen Range  
## 4015 847.5254 Nerreman-Bullen Range  
## 4016 864.5869 Nerreman-Bullen Range  
## 4017 746.1240 Nerreman-Bullen Range  
## 4018 763.0227 Nerreman-Bullen Range  
## 4019 710.0319 Nerreman-Bullen Range  
## 4020 739.6664 Nerreman-Bullen Range  
## 4021 756.3804 Nerreman-Bullen Range  
## 4022 753.9276 Nerreman-Bullen Range  
## 4023 831.0391 Nerreman-Bullen Range  
## 4024 788.2513 Nerreman-Bullen Range  
## 4025 747.9448 Nerreman-Bullen Range  
## 4026 741.1726 Nerreman-Bullen Range  
## 4027 758.4876 Nerreman-Bullen Range  
## 4028 914.0011 Nerreman-Bullen Range  
## 4029 726.3444 Nerreman-Bullen Range  
## 4030 855.5471 Nerreman-Bullen Range  
## 4031 810.2500 Nerreman-Bullen Range  
## 4032 736.3373 Nerreman-Bullen Range  
## 4033 743.1777 Nerreman-Bullen Range  
## 4034 794.6811 Nerreman-Bullen Range  
## 4035 741.6525 Nerreman-Bullen Range  
## 4036 827.4381 Nerreman-Bullen Range  
## 4037 680.4016 Nerreman-Bullen Range  
## 4038 885.5447 Nerreman-Bullen Range  
## 4039 788.2093 Nerreman-Bullen Range  
## 4040 856.0262 Nerreman-Bullen Range  
## 4041 768.8809 Nerreman-Bullen Range  
## 4042 808.5357 Nerreman-Bullen Range  
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## 4044 697.7882 Nerreman-Bullen Range  
## 4045 739.9254 Nerreman-Bullen Range  
## 4046 723.3972 Nerreman-Bullen Range  
## 4047 730.6521 Nerreman-Kambah Pool  
## 4048 741.8636 Nerreman-Kambah Pool  
## 4049 734.4138 Nerreman-Kambah Pool  
## 4050 845.1559 Nerreman-Kambah Pool  
## 4051 734.0999 Nerreman-Kambah Pool  
## 4052 798.0436 Nerreman-Kambah Pool  
## 4053 779.9937 Nerreman-Lanyon  
## 4054 745.0256 Nerreman-Lanyon  
## 4055 771.9551 Nerreman-Lanyon  
## 4056 833.5628 Nerreman-Lanyon  
## 4057 759.7384 Nerreman-Lanyon  
## 4058 766.0080 Nerreman-Lanyon  
## 4059 748.0273 Nerreman-Lanyon  
## 4060 750.0430 Nerreman-Lanyon  
## 4061 728.9675 Nerreman-Lanyon  
## 4062 768.1828 Nerreman-Lanyon  
## 4063 741.9728 Nerreman-Lanyon  
## 4064 743.4316 Nerreman-Lanyon  
## 4065 730.2112 Nerreman-Lanyon  
## 4066 685.8152 Nerreman-Lanyon  
## 4067 823.1519 Nerreman-Lanyon  
## 4068 742.2023 Nerreman-Lanyon  
## 4069 682.5773 Nerreman-Lanyon  
## 4070 750.0265 Nerreman-Murramore  
## 4071 776.8546 Nerreman-Murramore  
## 4072 762.5561 Nerreman-Murramore  
## 4073 682.8417 Nerreman-Murramore  
## 4074 665.5397 Nerreman-Murramore  
## 4075 740.8641 Nerreman-Murramore  
## 4076 743.2978 Nerreman-Murramore  
## 4077 706.5563 Nerreman-Murramore  
## 4078 736.9565 Nerreman-Murramore  
## 4079 780.2351 Nerreman-Murramore  
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## 4083 711.0761 Nerreman-Murramore  
## 4084 762.0036 Nerreman-Murramore  
## 4085 827.1031 Nerreman-Murramore  
## 4086 829.2191 Nerreman-Murramore  
## 4087 781.0074 Nerreman-Murramore  
## 4088 869.5211 Nerreman-Tharwa Sandwash  
## 4089 800.4982 Nerreman-Tharwa Sandwash  
## 4090 829.9004 Nerreman-Tharwa Sandwash  
## 4091 781.5079 Nerreman-Tharwa Sandwash  
## 4092 783.7018 Nerreman-Tharwa Sandwash  
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## 4095 777.8818 Nerreman-Tharwa Sandwash  
## 4096 917.7762 Nerreman-Tharwa Sandwash  
## 4097 785.2026 Nerreman-Tharwa Sandwash  
## 4098 677.7455 Nerreman-Tharwa Sandwash  
## 4099 736.1673 Nerreman-Tharwa Sandwash  
## 4100 830.9750 Nerreman-Tharwa Sandwash  
## 4101 789.3191 Nerreman-Tharwa Sandwash  
## 4102 853.0604 Nerreman-Tharwa Sandwash  
## 4103 793.0018 Nerreman-Tharwa Sandwash  
## 4104 818.0997 Nerreman-Tharwa Sandwash  
## 4105 866.9287 Nerreman-Tharwa Sandwash  
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## 4112 808.2821 Nerreman-Tharwa Sandwash  
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## 4114 853.1310 Nerreman-Tharwa Sandwash  
## 4115 948.2596 Nerreman-Tharwa Sandwash  
## 4116 659.8110 Nerreman-Tharwa Sandwash  
## 4117 747.3111 Nerreman-Tharwa Sandwash  
## 4118 795.2600 Nerreman-Tharwa Sandwash  
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## 4120 770.5778 Nerreman-Tharwa Sandwash  
## 4121 752.6013 Nerreman-Tharwa Sandwash  
## 4122 916.0801 Nerreman-Tharwa Sandwash  
## 4123 791.0448 Nerreman-Tharwa Sandwash  
## 4124 787.7285 Nerreman-Tharwa Sandwash  
## 4125 730.4967 Nerreman-Tharwa Sandwash  
## 4126 769.4403 Nerreman-Tharwa Sandwash  
## 4127 739.2058 Nerreman-Tharwa Sandwash  
## 4128 881.8705 Nerreman-Tharwa Sandwash  
## 4129 970.4997 Nerreman-Tharwa Sandwash  
## 4130 687.8178 Nerreman-Tharwa Sandwash  
## 4131 710.0788 Nerreman-Tharwa Sandwash  
## 4132 776.1509 Nerreman-Tharwa Sandwash  
## 4133 776.5773 Nerreman-Tharwa Sandwash  
## 4134 715.5862 Nerreman-Tharwa Sandwash  
## 4135 700.0887 Nerreman-Tharwa Sandwash  
## 4136 731.0841 Nerreman-Tharwa Sandwash  
## 4137 849.9890 Nerreman-Kambah Pool  
## 4138 769.0829 Nerreman-Tharwa Sandwash  
## 4139 735.8114 Nerreman-Kambah Pool  
## 4140 788.0711 Nerreman-Kambah Pool  
## 4141 669.6398 Nerreman-Kambah Pool  
## 4142 754.4663 Nerreman-Kambah Pool  
## 4143 846.7785 Nerreman-Kambah Pool  
## 4144 730.6435 Nerreman-Kambah Pool  
## 4145 807.5934 Nerreman-Kambah Pool  
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## 4147 832.4504 Nerreman-Kambah Pool  
## 4148 669.0418 Nerreman-Kambah Pool  
## 4149 876.2268 Nerreman-Kambah Pool  
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## 4151 767.2122 Nerreman-Kambah Pool  
## 4152 774.7775 Nerreman-Kambah Pool  
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## 4158 739.6761 Nerreman-Kambah Pool  
## 4159 603.9856 Nerreman-Lanyon  
## 4160 732.7579 Nerreman-Lanyon  
## 4161 736.7397 Nerreman-Lanyon  
## 4162 745.5335 Nerreman-Lanyon  
## 4163 673.8602 Nerreman-Kambah Pool  
## 4164 765.9926 Nerreman-Kambah Pool  
## 4165 753.0996 Nerreman-Kambah Pool  
## 4166 735.1779 Nerreman-Kambah Pool  
## 4167 681.8420 Nerreman-Kambah Pool  
## 4168 759.9296 Nerreman-Tharwa Sandwash  
## 4169 951.3087 Nerreman-Tharwa Sandwash  
## 4170 788.8420 Nerreman-Kambah Pool  
## 4171 746.0147 Nerreman-Kambah Pool  
## 4172 721.8425 Nerreman-Kambah Pool  
## 4173 767.9391 Nerreman-Kambah Pool  
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## 4177 794.6152 Nerreman-Kambah Pool  
## 4178 694.3758 Nerreman-Kambah Pool  
## 4179 794.2962 Nerreman-Kambah Pool  
## 4180 770.7060 Nerreman-Tharwa Sandwash  
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## 4182 733.9982 Nerreman-Bullen Range  
## 4183 778.0395 Nerreman-Bullen Range  
## 4184 692.8184 Nerreman-Bullen Range  
## 4185 691.8792 Nerreman-Bullen Range  
## 4186 673.9161 Nerreman-Bullen Range  
## 4187 702.2605 Nerreman-Bullen Range  
## 4188 755.7280 Nerreman-Bullen Range  
## 4189 846.3386 Nerreman-Bullen Range  
## 4190 718.3699 Nerreman-Bullen Range  
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## 4192 684.0199 Nerreman-Bullen Range  
## 4193 744.6938 Nerreman-Bullen Range  
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## 4195 805.2174 Nerreman-Bullen Range  
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## 4198 668.9920 Nerreman-Bullen Range  
## 4199 691.4987 Nerreman-Bullen Range  
## 4200 645.1952 Nerreman-Bullen Range  
## 4201 690.5710 Nerreman-Bullen Range  
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## 4203 743.2889 Nerreman-Bullen Range  
## 4204 720.1795 Nerreman-Bullen Range  
## 4205 807.1925 Nerreman-Bullen Range  
## 4206 699.0218 Nerreman-Bullen Range  
## 4207 690.1183 Nerreman-Bullen Range  
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## 4209 698.1186 Nerreman-Bullen Range  
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## 4211 701.5671 Nerreman-Bullen Range  
## 4212 565.5736 Nerreman-Bullen Range  
## 4213 697.8601 Nerreman-Bullen Range  
## 4214 723.5586 Nerreman-Kambah Pool  
## 4215 712.9491 Nerreman-Kambah Pool  
## 4216 729.7881 Nerreman-Kambah Pool  
## 4217 811.1166 Nerreman-Kambah Pool  
## 4218 724.0230 Nerreman-Kambah Pool  
## 4219 774.5115 Nerreman-Kambah Pool  
## 4220 774.9965 Nerreman-Lanyon  
## 4221 724.1551 Nerreman-Lanyon  
## 4222 818.5179 Nerreman-Lanyon  
## 4223 839.6904 Nerreman-Lanyon  
## 4224 694.1002 Nerreman-Lanyon  
## 4225 665.2859 Nerreman-Lanyon  
## 4226 694.5000 Nerreman-Lanyon  
## 4227 702.3312 Nerreman-Lanyon  
## 4228 664.6931 Nerreman-Lanyon  
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## 4230 696.5473 Nerreman-Lanyon  
## 4231 675.5567 Nerreman-Lanyon  
## 4232 675.4203 Nerreman-Lanyon  
## 4233 655.2531 Nerreman-Lanyon  
## 4234 826.6642 Nerreman-Lanyon  
## 4235 629.2964 Nerreman-Lanyon  
## 4236 630.9215 Nerreman-Lanyon  
## 4237 703.2109 Nerreman-Murramore  
## 4238 759.4832 Nerreman-Murramore  
## 4239 719.9109 Nerreman-Murramore  
## 4240 677.7099 Nerreman-Murramore  
## 4241 723.0765 Nerreman-Murramore  
## 4242 731.8732 Nerreman-Murramore  
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## 4244 729.9854 Nerreman-Murramore  
## 4245 729.5290 Nerreman-Murramore  
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## 4247 730.0512 Nerreman-Murramore  
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## 4249 672.6604 Nerreman-Murramore  
## 4250 673.9408 Nerreman-Murramore  
## 4251 719.2570 Nerreman-Murramore  
## 4252 734.9026 Nerreman-Murramore  
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## 4254 706.4227 Nerreman-Murramore  
## 4255 727.6779 Nerreman-Tharwa Sandwash  
## 4256 705.1491 Nerreman-Tharwa Sandwash  
## 4257 734.1533 Nerreman-Tharwa Sandwash  
## 4258 699.0472 Nerreman-Tharwa Sandwash  
## 4259 711.2394 Nerreman-Tharwa Sandwash  
## 4260 736.2358 Nerreman-Tharwa Sandwash  
## 4261 736.9424 Nerreman-Tharwa Sandwash  
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## 4263 758.0583 Nerreman-Tharwa Sandwash  
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## 4290 795.8433 Nerreman-Tharwa Sandwash  
## 4291 769.8475 Nerreman-Tharwa Sandwash  
## 4292 731.6050 Nerreman-Tharwa Sandwash  
## 4293 795.0611 Nerreman-Tharwa Sandwash  
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## 4301 684.4194 Nerreman-Tharwa Sandwash  
## 4302 745.4548 Nerreman-Tharwa Sandwash  
## 4303 711.9843 Nerreman-Tharwa Sandwash  
## 4304 791.2930 Nerreman-Kambah Pool  
## 4305 714.6431 Nerreman-Tharwa Sandwash  
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## 4307 865.1630 Nerreman-Kambah Pool  
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## 4321 884.2440 Nerreman-Kambah Pool  
## 4322 964.8899 Nerreman-Kambah Pool  
## 4323 832.3437 Nerreman-Kambah Pool  
## 4324 811.3591 Nerreman-Kambah Pool  
## 4325 877.7708 Nerreman-Kambah Pool  
## 4326 752.8544 Nerreman-Lanyon  
## 4327 795.5798 Nerreman-Lanyon  
## 4328 776.5157 Nerreman-Lanyon  
## 4329 699.6918 Nerreman-Lanyon  
## 4330 794.5323 Nerreman-Kambah Pool  
## 4331 721.4920 Nerreman-Kambah Pool  
## 4332 748.4110 Nerreman-Kambah Pool  
## 4333 722.1890 Nerreman-Kambah Pool  
## 4334 857.1361 Nerreman-Kambah Pool  
## 4335 833.8774 Nerreman-Tharwa Sandwash  
## 4336 899.6932 Nerreman-Tharwa Sandwash  
## 4337 822.4894 Nerreman-Kambah Pool  
## 4338 767.7682 Nerreman-Kambah Pool  
## 4339 738.6955 Nerreman-Kambah Pool  
## 4340 904.9293 Nerreman-Kambah Pool  
## 4341 814.2316 Nerreman-Kambah Pool  
## 4342 740.5899 Nerreman-Kambah Pool  
## 4343 808.3933 Nerreman-Kambah Pool  
## 4344 840.7245 Nerreman-Kambah Pool  
## 4345 805.0406 Nerreman-Kambah Pool  
## 4346 791.5058 Nerreman-Kambah Pool  
## 4347 767.7270 Nerreman-Tharwa Sandwash  
## 4348 722.6847 Nerreman-Bullen Range  
## 4349 729.6773 Nerreman-Bullen Range  
## 4350 909.1100 Nerreman-Bullen Range  
## 4351 754.0361 Nerreman-Bullen Range  
## 4352 722.0695 Nerreman-Bullen Range  
## 4353 737.0491 Nerreman-Bullen Range  
## 4354 793.1310 Nerreman-Bullen Range  
## 4355 704.5428 Nerreman-Bullen Range  
## 4356 800.6598 Nerreman-Bullen Range  
## 4357 784.7626 Nerreman-Bullen Range  
## 4358 728.0276 Nerreman-Bullen Range  
## 4359 801.0555 Nerreman-Bullen Range  
## 4360 847.8413 Nerreman-Bullen Range  
## 4361 697.7302 Nerreman-Bullen Range  
## 4362 859.0824 Nerreman-Bullen Range  
## 4363 775.5814 Nerreman-Bullen Range  
## 4364 731.4838 Nerreman-Bullen Range  
## 4365 765.3036 Nerreman-Bullen Range  
## 4366 723.0674 Nerreman-Bullen Range  
## 4367 694.6144 Nerreman-Bullen Range  
## 4368 705.5089 Nerreman-Bullen Range  
## 4369 734.4079 Nerreman-Bullen Range  
## 4370 757.7855 Nerreman-Bullen Range  
## 4371 806.6829 Nerreman-Bullen Range  
## 4372 832.2160 Nerreman-Bullen Range  
## 4373 742.4060 Nerreman-Bullen Range  
## 4374 770.2586 Nerreman-Bullen Range  
## 4375 752.0581 Nerreman-Bullen Range  
## 4376 764.9891 Nerreman-Bullen Range  
## 4377 775.7068 Nerreman-Bullen Range  
## 4378 690.7524 Nerreman-Bullen Range  
## 4379 796.3115 Nerreman-Bullen Range  
## 4380 773.2256 Nerreman-Bullen Range  
## 4381 720.7075 Nerreman-Kambah Pool  
## 4382 709.1161 Nerreman-Kambah Pool  
## 4383 829.6426 Nerreman-Kambah Pool  
## 4384 815.2991 Nerreman-Kambah Pool  
## 4385 693.1188 Nerreman-Kambah Pool  
## 4386 771.4548 Nerreman-Kambah Pool  
## 4387 763.8001 Nerreman-Lanyon  
## 4388 766.9599 Nerreman-Lanyon  
## 4389 842.1991 Nerreman-Lanyon  
## 4390 914.3656 Nerreman-Lanyon  
## 4391 663.0796 Nerreman-Lanyon  
## 4392 732.4370 Nerreman-Lanyon  
## 4393 746.7264 Nerreman-Lanyon  
## 4394 802.6992 Nerreman-Lanyon  
## 4395 693.2863 Nerreman-Lanyon  
## 4396 718.7012 Nerreman-Lanyon  
## 4397 731.3305 Nerreman-Lanyon  
## 4398 756.7544 Nerreman-Lanyon  
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## 4400 785.8282 Nerreman-Lanyon  
## 4401 922.9739 Nerreman-Lanyon  
## 4402 754.8509 Nerreman-Lanyon  
## 4403 681.4855 Nerreman-Lanyon  
## 4404 736.3503 Nerreman-Murramore  
## 4405 819.2637 Nerreman-Murramore  
## 4406 766.5597 Nerreman-Murramore  
## 4407 806.6166 Nerreman-Murramore  
## 4408 693.8459 Nerreman-Murramore  
## 4409 713.3630 Nerreman-Murramore  
## 4410 793.0459 Nerreman-Murramore  
## 4411 724.4253 Nerreman-Murramore  
## 4412 817.6882 Nerreman-Murramore  
## 4413 743.8667 Nerreman-Murramore  
## 4414 755.3203 Nerreman-Murramore  
## 4415 738.0435 Nerreman-Murramore  
## 4416 750.0896 Nerreman-Murramore  
## 4417 725.2256 Nerreman-Murramore  
## 4418 807.8091 Nerreman-Murramore  
## 4419 745.3588 Nerreman-Murramore  
## 4420 746.5586 Nerreman-Murramore  
## 4421 768.6405 Nerreman-Murramore  
## 4422 813.9825 Nerreman-Tharwa Sandwash  
## 4423 779.9366 Nerreman-Tharwa Sandwash  
## 4424 733.2523 Nerreman-Tharwa Sandwash  
## 4425 735.3529 Nerreman-Tharwa Sandwash  
## 4426 749.4329 Nerreman-Tharwa Sandwash  
## 4427 725.9095 Nerreman-Tharwa Sandwash  
## 4428 766.1956 Nerreman-Tharwa Sandwash  
## 4429 784.0075 Nerreman-Tharwa Sandwash  
## 4430 756.5135 Nerreman-Tharwa Sandwash  
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## 4432 737.2385 Nerreman-Tharwa Sandwash  
## 4433 799.3071 Nerreman-Tharwa Sandwash  
## 4434 793.5619 Nerreman-Tharwa Sandwash  
## 4435 809.0963 Nerreman-Tharwa Sandwash  
## 4436 766.9419 Nerreman-Tharwa Sandwash  
## 4437 830.1232 Nerreman-Tharwa Sandwash  
## 4438 765.8596 Nerreman-Tharwa Sandwash  
## 4439 871.6684 Nerreman-Tharwa Sandwash  
## 4440 816.4173 Nerreman-Tharwa Sandwash  
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## 4442 772.5082 Nerreman-Tharwa Sandwash  
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## 4445 825.3755 Nerreman-Tharwa Sandwash  
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## 4447 747.9231 Nerreman-Tharwa Sandwash  
## 4448 791.7890 Nerreman-Tharwa Sandwash  
## 4449 929.4891 Nerreman-Tharwa Sandwash  
## 4450 771.6667 Nerreman-Tharwa Sandwash  
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## 4456 914.9499 Nerreman-Tharwa Sandwash  
## 4457 742.7650 Nerreman-Tharwa Sandwash  
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## 4459 826.7857 Nerreman-Tharwa Sandwash  
## 4460 875.9459 Nerreman-Tharwa Sandwash  
## 4461 829.0690 Nerreman-Tharwa Sandwash  
## 4462 906.6796 Nerreman-Tharwa Sandwash  
## 4463 941.3518 Nerreman-Tharwa Sandwash  
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## 4465 790.2802 Nerreman-Tharwa Sandwash  
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## 4468 800.5375 Nerreman-Tharwa Sandwash  
## 4469 810.9910 Nerreman-Tharwa Sandwash  
## 4470 754.4014 Nerreman-Tharwa Sandwash  
## 4471 842.7474 Nerreman-Kambah Pool  
## 4472 657.6146 Nerreman-Tharwa Sandwash  
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## 4474 682.5887 Nerreman-Kambah Pool  
## 4475 718.2735 Nerreman-Kambah Pool  
## 4476 765.1487 Nerreman-Kambah Pool  
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## 4478 623.2692 Nerreman-Kambah Pool  
## 4479 735.7176 Nerreman-Kambah Pool  
## 4480 682.4075 Nerreman-Kambah Pool  
## 4481 752.6915 Nerreman-Kambah Pool  
## 4482 616.2126 Nerreman-Kambah Pool  
## 4483 687.6872 Nerreman-Kambah Pool  
## 4484 803.8227 Nerreman-Kambah Pool  
## 4485 764.5346 Nerreman-Kambah Pool  
## 4486 802.9330 Nerreman-Kambah Pool  
## 4487 874.0020 Nerreman-Kambah Pool  
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## 4490 876.2473 Nerreman-Kambah Pool  
## 4491 766.0138 Nerreman-Kambah Pool  
## 4492 750.1324 Nerreman-Kambah Pool  
## 4493 588.9967 Nerreman-Lanyon  
## 4494 717.1976 Nerreman-Lanyon  
## 4495 747.3574 Nerreman-Lanyon  
## 4496 705.5386 Nerreman-Lanyon  
## 4497 665.0879 Nerreman-Kambah Pool  
## 4498 650.6942 Nerreman-Kambah Pool  
## 4499 628.5191 Nerreman-Kambah Pool  
## 4500 823.1784 Nerreman-Kambah Pool  
## 4501 746.4171 Nerreman-Kambah Pool  
## 4502 538.7107 Nerreman-Tharwa Sandwash  
## 4503 877.9139 Nerreman-Tharwa Sandwash  
## 4504 819.0888 Nerreman-Kambah Pool  
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## 4511 772.2939 Nerreman-Kambah Pool  
## 4512 692.5024 Nerreman-Kambah Pool  
## 4513 807.5904 Nerreman-Kambah Pool  
## 4514 576.3752 Nerreman-Tharwa Sandwash  
## 4515 731.2902 Nerreman-Bullen Range  
## 4516 779.8984 Nerreman-Bullen Range  
## 4517 803.7201 Nerreman-Bullen Range  
## 4518 663.0167 Nerreman-Bullen Range  
## 4519 695.9095 Nerreman-Bullen Range  
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## 4523 746.9085 Nerreman-Bullen Range  
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## 4525 732.5905 Nerreman-Bullen Range  
## 4526 616.1437 Nerreman-Bullen Range  
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## 4535 676.9848 Nerreman-Bullen Range  
## 4536 686.6966 Nerreman-Bullen Range  
## 4537 799.4916 Nerreman-Bullen Range  
## 4538 715.9235 Nerreman-Bullen Range  
## 4539 728.9707 Nerreman-Bullen Range  
## 4540 777.2945 Nerreman-Bullen Range  
## 4541 870.4639 Nerreman-Bullen Range  
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## 4544 869.7406 Nerreman-Bullen Range  
## 4545 825.4891 Nerreman-Bullen Range  
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## 4547 679.9853 Nerreman-Bullen Range  
## 4548 688.8951 Nerreman-Kambah Pool  
## 4549 579.0554 Nerreman-Kambah Pool  
## 4550 723.1929 Nerreman-Kambah Pool  
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## 4552 737.7499 Nerreman-Kambah Pool  
## 4553 734.8617 Nerreman-Kambah Pool  
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## 4556 636.4797 Nerreman-Lanyon  
## 4557 669.7668 Nerreman-Lanyon  
## 4558 626.2628 Nerreman-Lanyon  
## 4559 759.4798 Nerreman-Lanyon  
## 4560 709.5879 Nerreman-Lanyon  
## 4561 644.2743 Nerreman-Lanyon  
## 4562 629.1790 Nerreman-Lanyon  
## 4563 641.4864 Nerreman-Lanyon  
## 4564 676.0484 Nerreman-Lanyon  
## 4565 701.8400 Nerreman-Lanyon  
## 4566 629.6167 Nerreman-Lanyon  
## 4567 617.2294 Nerreman-Lanyon  
## 4568 747.5207 Nerreman-Lanyon  
## 4569 703.2167 Nerreman-Lanyon  
## 4570 663.1960 Nerreman-Lanyon  
## 4571 643.3460 Nerreman-Murramore  
## 4572 721.9661 Nerreman-Murramore  
## 4573 642.2452 Nerreman-Murramore  
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## 4575 665.0221 Nerreman-Murramore  
## 4576 669.9357 Nerreman-Murramore  
## 4577 682.0336 Nerreman-Murramore  
## 4578 673.7704 Nerreman-Murramore  
## 4579 583.9739 Nerreman-Murramore  
## 4580 695.9700 Nerreman-Murramore  
## 4581 758.1376 Nerreman-Murramore  
## 4582 636.6152 Nerreman-Murramore  
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## 4584 642.0307 Nerreman-Murramore  
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## 4588 687.3402 Nerreman-Murramore  
## 4589 658.9864 Nerreman-Tharwa Sandwash  
## 4590 552.0504 Nerreman-Tharwa Sandwash  
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## 4592 612.4026 Nerreman-Tharwa Sandwash  
## 4593 654.6344 Nerreman-Tharwa Sandwash  
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## 4595 675.7711 Nerreman-Tharwa Sandwash  
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## 4597 684.1764 Nerreman-Tharwa Sandwash  
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## 4599 510.7264 Nerreman-Tharwa Sandwash  
## 4600 608.6863 Nerreman-Tharwa Sandwash  
## 4601 615.8883 Nerreman-Tharwa Sandwash  
## 4602 608.6329 Nerreman-Tharwa Sandwash  
## 4603 673.2316 Nerreman-Tharwa Sandwash  
## 4604 783.3863 Nerreman-Tharwa Sandwash  
## 4605 770.9503 Nerreman-Tharwa Sandwash  
## 4606 733.9108 Nerreman-Tharwa Sandwash  
## 4607 722.7766 Nerreman-Tharwa Sandwash  
## 4608 724.0635 Nerreman-Tharwa Sandwash  
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## 4612 728.3254 Nerreman-Tharwa Sandwash  
## 4613 711.9710 Nerreman-Tharwa Sandwash  
## 4614 765.3365 Nerreman-Tharwa Sandwash  
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## 4616 919.9121 Nerreman-Tharwa Sandwash  
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## 4621 669.9882 Nerreman-Tharwa Sandwash  
## 4622 688.9881 Nerreman-Tharwa Sandwash  
## 4623 778.2090 Nerreman-Tharwa Sandwash  
## 4624 746.9342 Nerreman-Tharwa Sandwash  
## 4625 770.2470 Nerreman-Tharwa Sandwash  
## 4626 621.9403 Nerreman-Tharwa Sandwash  
## 4627 688.9250 Nerreman-Tharwa Sandwash  
## 4628 707.0313 Nerreman-Tharwa Sandwash  
## 4629 896.7991 Nerreman-Tharwa Sandwash  
## 4630 908.2580 Nerreman-Tharwa Sandwash  
## 4631 623.0150 Nerreman-Tharwa Sandwash  
## 4632 708.6362 Nerreman-Tharwa Sandwash  
## 4633 737.5707 Nerreman-Tharwa Sandwash  
## 4634 638.1113 Nerreman-Tharwa Sandwash  
## 4635 708.1539 Nerreman-Tharwa Sandwash  
## 4636 695.1980 Nerreman-Tharwa Sandwash  
## 4637 684.4272 Nerreman-Tharwa Sandwash  
## 4638 719.7972 Nerreman-Kambah Pool  
## 4639 715.8242 Nerreman-Tharwa Sandwash  
## 4640 685.3775 Nerreman-Kambah Pool  
## 4641 786.3938 Nerreman-Kambah Pool  
## 4642 780.8206 Nerreman-Kambah Pool  
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## 4647 786.8380 Nerreman-Kambah Pool  
## 4648 761.6849 Nerreman-Kambah Pool  
## 4649 710.9984 Nerreman-Kambah Pool  
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## 4652 816.4310 Nerreman-Kambah Pool  
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## 4654 775.7887 Nerreman-Kambah Pool  
## 4655 773.3952 Nerreman-Kambah Pool  
## 4656 900.4763 Nerreman-Kambah Pool  
## 4657 772.4195 Nerreman-Kambah Pool  
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## 4659 805.2023 Nerreman-Kambah Pool  
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## 4661 724.4385 Nerreman-Lanyon  
## 4662 786.9268 Nerreman-Lanyon  
## 4663 829.4276 Nerreman-Lanyon  
## 4664 870.2685 Nerreman-Kambah Pool  
## 4665 732.7579 Nerreman-Kambah Pool  
## 4666 750.7831 Nerreman-Kambah Pool  
## 4667 715.2199 Nerreman-Kambah Pool  
## 4668 774.7977 Nerreman-Kambah Pool  
## 4669 686.8004 Nerreman-Tharwa Sandwash  
## 4670 862.5399 Nerreman-Tharwa Sandwash  
## 4671 822.6695 Nerreman-Kambah Pool  
## 4672 748.3592 Nerreman-Kambah Pool  
## 4673 810.3366 Nerreman-Kambah Pool  
## 4674 783.8517 Nerreman-Kambah Pool  
## 4675 855.7083 Nerreman-Kambah Pool  
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## 4678 777.2157 Nerreman-Kambah Pool  
## 4679 720.5014 Nerreman-Kambah Pool  
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## 4683 797.3707 Nerreman-Bullen Range  
## 4684 735.6511 Nerreman-Bullen Range  
## 4685 651.6763 Nerreman-Bullen Range  
## 4686 757.6364 Nerreman-Bullen Range  
## 4687 749.5603 Nerreman-Bullen Range  
## 4688 727.0567 Nerreman-Bullen Range  
## 4689 858.0256 Nerreman-Bullen Range  
## 4690 722.4235 Nerreman-Bullen Range  
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## 4692 771.1544 Nerreman-Bullen Range  
## 4693 651.1871 Nerreman-Bullen Range  
## 4694 704.1529 Nerreman-Bullen Range  
## 4695 748.7469 Nerreman-Bullen Range  
## 4696 852.5292 Nerreman-Bullen Range  
## 4697 773.2577 Nerreman-Bullen Range  
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## 4700 721.7537 Nerreman-Bullen Range  
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## 4702 697.9347 Nerreman-Bullen Range  
## 4703 731.5586 Nerreman-Bullen Range  
## 4704 760.9791 Nerreman-Bullen Range  
## 4705 679.6992 Nerreman-Bullen Range  
## 4706 740.9457 Nerreman-Bullen Range  
## 4707 791.2636 Nerreman-Bullen Range  
## 4708 914.9499 Nerreman-Bullen Range  
## 4709 736.9786 Nerreman-Bullen Range  
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## 4712 659.1037 Nerreman-Bullen Range  
## 4713 667.4226 Nerreman-Bullen Range  
## 4714 809.3625 Nerreman-Bullen Range  
## 4715 767.9024 Nerreman-Kambah Pool  
## 4716 747.4610 Nerreman-Kambah Pool  
## 4717 774.9052 Nerreman-Kambah Pool  
## 4718 680.6221 Nerreman-Kambah Pool  
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## 4720 804.3539 Nerreman-Kambah Pool  
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## 4722 725.3340 Nerreman-Lanyon  
## 4723 685.2810 Nerreman-Lanyon  
## 4724 712.3826 Nerreman-Lanyon  
## 4725 727.4340 Nerreman-Lanyon  
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## 4727 691.0250 Nerreman-Lanyon  
## 4728 726.6103 Nerreman-Lanyon  
## 4729 726.0959 Nerreman-Lanyon  
## 4730 812.9305 Nerreman-Lanyon  
## 4731 726.7017 Nerreman-Lanyon  
## 4732 670.7508 Nerreman-Lanyon  
## 4733 706.8312 Nerreman-Lanyon  
## 4734 671.0408 Nerreman-Lanyon  
## 4735 696.9821 Nerreman-Lanyon  
## 4736 755.5211 Nerreman-Lanyon  
## 4737 733.4932 Nerreman-Lanyon  
## 4738 738.7132 Nerreman-Murramore  
## 4739 773.2900 Nerreman-Murramore  
## 4740 703.5501 Nerreman-Murramore  
## 4741 762.0348 Nerreman-Murramore  
## 4742 766.1335 Nerreman-Murramore  
## 4743 773.8137 Nerreman-Murramore  
## 4744 709.6449 Nerreman-Murramore  
## 4745 786.8497 Nerreman-Murramore  
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## 4747 710.3613 Nerreman-Murramore  
## 4748 772.9829 Nerreman-Murramore  
## 4749 678.8846 Nerreman-Murramore  
## 4750 730.2392 Nerreman-Murramore  
## 4751 772.4865 Nerreman-Murramore  
## 4752 800.7267 Nerreman-Murramore  
## 4753 834.5731 Nerreman-Murramore  
## 4754 711.2678 Nerreman-Murramore  
## 4755 746.3284 Nerreman-Murramore  
## 4756 833.5510 Nerreman-Tharwa Sandwash  
## 4757 716.6131 Nerreman-Tharwa Sandwash  
## 4758 662.8282 Nerreman-Tharwa Sandwash  
## 4759 726.8708 Nerreman-Tharwa Sandwash  
## 4760 776.2278 Nerreman-Tharwa Sandwash  
## 4761 805.9253 Nerreman-Tharwa Sandwash  
## 4762 787.4646 Nerreman-Tharwa Sandwash  
## 4763 779.4602 Nerreman-Tharwa Sandwash  
## 4764 806.8548 Nerreman-Tharwa Sandwash  
## 4765 707.7900 Nerreman-Tharwa Sandwash  
## 4766 671.8271 Nerreman-Tharwa Sandwash  
## 4767 637.8614 Nerreman-Tharwa Sandwash  
## 4768 701.4055 Nerreman-Tharwa Sandwash  
## 4769 716.0050 Nerreman-Tharwa Sandwash  
## 4770 910.0176 Nerreman-Tharwa Sandwash  
## 4771 827.0795 Nerreman-Tharwa Sandwash  
## 4772 728.3295 Nerreman-Tharwa Sandwash  
## 4773 755.8947 Nerreman-Tharwa Sandwash  
## 4774 738.2240 Nerreman-Tharwa Sandwash  
## 4775 728.2282 Nerreman-Tharwa Sandwash  
## 4776 750.1772 Nerreman-Tharwa Sandwash  
## 4777 745.9051 Nerreman-Tharwa Sandwash  
## 4778 754.8913 Nerreman-Tharwa Sandwash  
## 4779 743.5421 Nerreman-Tharwa Sandwash  
## 4780 735.5363 Nerreman-Tharwa Sandwash  
## 4781 724.2701 Nerreman-Tharwa Sandwash  
## 4782 755.4996 Nerreman-Tharwa Sandwash  
## 4783 950.3136 Nerreman-Tharwa Sandwash  
## 4784 710.3024 Nerreman-Tharwa Sandwash  
## 4785 830.0432 Nerreman-Tharwa Sandwash  
## 4786 875.5449 Nerreman-Tharwa Sandwash  
## 4787 750.9882 Nerreman-Tharwa Sandwash  
## 4788 719.7052 Nerreman-Tharwa Sandwash  
## 4789 735.3102 Nerreman-Tharwa Sandwash  
## 4790 928.1816 Nerreman-Tharwa Sandwash  
## 4791 778.9332 Nerreman-Tharwa Sandwash  
## 4792 805.8417 Nerreman-Tharwa Sandwash  
## 4793 736.9316 Nerreman-Tharwa Sandwash  
## 4794 804.1320 Nerreman-Tharwa Sandwash  
## 4795 754.4089 Nerreman-Tharwa Sandwash  
## 4796 932.8189 Nerreman-Tharwa Sandwash  
## 4797 955.3942 Nerreman-Tharwa Sandwash  
## 4798 759.4613 Nerreman-Tharwa Sandwash  
## 4799 756.4133 Nerreman-Tharwa Sandwash  
## 4800 780.7703 Nerreman-Tharwa Sandwash  
## 4801 704.1987 Nerreman-Tharwa Sandwash  
## 4802 749.4434 Nerreman-Tharwa Sandwash  
## 4803 742.5406 Nerreman-Tharwa Sandwash  
## 4804 743.3120 Nerreman-Tharwa Sandwash  
## 4805 820.6489 Nerreman-Kambah Pool  
## 4806 739.1271 Nerreman-Tharwa Sandwash  
## 4807 814.8381 Nerreman-Kambah Pool  
## 4808 659.5482 Nerreman-Kambah Pool  
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## 4810 712.1394 Nerreman-Kambah Pool  
## 4811 860.8350 Nerreman-Kambah Pool  
## 4812 675.3149 Nerreman-Kambah Pool  
## 4813 778.1844 Nerreman-Kambah Pool  
## 4814 690.4826 Nerreman-Kambah Pool  
## 4815 729.1096 Nerreman-Kambah Pool  
## 4816 679.0780 Nerreman-Kambah Pool  
## 4817 856.5208 Nerreman-Kambah Pool  
## 4818 777.7532 Nerreman-Kambah Pool  
## 4819 674.3715 Nerreman-Kambah Pool  
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## 4821 858.0920 Nerreman-Kambah Pool  
## 4822 791.4841 Nerreman-Kambah Pool  
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## 4824 766.6856 Nerreman-Kambah Pool  
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## 4826 831.5030 Nerreman-Kambah Pool  
## 4827 758.5437 Nerreman-Lanyon  
## 4828 868.0622 Nerreman-Lanyon  
## 4829 829.0038 Nerreman-Lanyon  
## 4830 831.4738 Nerreman-Lanyon  
## 4831 732.7076 Nerreman-Kambah Pool  
## 4832 696.2299 Nerreman-Kambah Pool  
## 4833 605.2357 Nerreman-Kambah Pool  
## 4834 673.5805 Nerreman-Kambah Pool  
## 4835 640.0512 Nerreman-Kambah Pool  
## 4836 752.0644 Nerreman-Tharwa Sandwash  
## 4837 1065.7736 Nerreman-Tharwa Sandwash  
## 4838 790.8420 Nerreman-Kambah Pool  
## 4839 772.1939 Nerreman-Kambah Pool  
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## 4842 772.5383 Nerreman-Kambah Pool  
## 4843 729.1834 Nerreman-Kambah Pool  
## 4844 707.8690 Nerreman-Kambah Pool  
## 4845 739.3318 Nerreman-Kambah Pool  
## 4846 654.5771 Nerreman-Kambah Pool  
## 4847 808.1834 Nerreman-Kambah Pool  
## 4848 618.6946 Nerreman-Tharwa Sandwash  
## 4849 561.5698 Nerreman-Bullen Range  
## 4850 663.5399 Nerreman-Bullen Range  
## 4851 799.4467 Nerreman-Bullen Range  
## 4852 610.7507 Nerreman-Bullen Range  
## 4853 699.5132 Nerreman-Bullen Range  
## 4854 688.5682 Nerreman-Bullen Range  
## 4855 652.3494 Nerreman-Bullen Range  
## 4856 673.5582 Nerreman-Bullen Range  
## 4857 673.2674 Nerreman-Bullen Range  
## 4858 699.8718 Nerreman-Bullen Range  
## 4859 715.4841 Nerreman-Bullen Range  
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## 4861 786.2560 Nerreman-Bullen Range  
## 4862 679.8949 Nerreman-Bullen Range  
## 4863 753.9239 Nerreman-Bullen Range  
## 4864 651.7075 Nerreman-Bullen Range  
## 4865 650.5475 Nerreman-Bullen Range  
## 4866 634.1266 Nerreman-Bullen Range  
## 4867 614.1770 Nerreman-Bullen Range  
## 4868 638.7839 Nerreman-Bullen Range  
## 4869 625.8287 Nerreman-Bullen Range  
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## 4871 653.5785 Nerreman-Bullen Range  
## 4872 612.4254 Nerreman-Bullen Range  
## 4873 659.6272 Nerreman-Bullen Range  
## 4874 720.0958 Nerreman-Bullen Range  
## 4875 715.9274 Nerreman-Bullen Range  
## 4876 639.2050 Nerreman-Bullen Range  
## 4877 703.1596 Nerreman-Bullen Range  
## 4878 635.5276 Nerreman-Bullen Range  
## 4879 603.6397 Nerreman-Bullen Range  
## 4880 790.8984 Nerreman-Bullen Range  
## 4881 729.0869 Nerreman-Bullen Range  
## 4882 758.2446 Nerreman-Kambah Pool  
## 4883 695.8407 Nerreman-Kambah Pool  
## 4884 793.4291 Nerreman-Kambah Pool  
## 4885 796.5294 Nerreman-Kambah Pool  
## 4886 669.0471 Nerreman-Kambah Pool  
## 4887 770.1059 Nerreman-Kambah Pool  
## 4888 629.1408 Nerreman-Lanyon  
## 4889 660.1479 Nerreman-Lanyon  
## 4890 743.8667 Nerreman-Lanyon  
## 4891 804.2746 Nerreman-Lanyon  
## 4892 732.8466 Nerreman-Lanyon  
## 4893 724.8727 Nerreman-Lanyon  
## 4894 499.5077 Nerreman-Lanyon  
## 4895 819.6315 Nerreman-Lanyon  
## 4896 541.2072 Nerreman-Lanyon  
## 4897 730.2228 Nerreman-Lanyon  
## 4898 753.8141 Nerreman-Lanyon  
## 4899 754.7654 Nerreman-Lanyon  
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## 4901 708.9258 Nerreman-Lanyon  
## 4902 715.0383 Nerreman-Lanyon  
## 4903 784.5102 Nerreman-Lanyon  
## 4904 729.7821 Nerreman-Lanyon  
## 4905 781.9311 Nerreman-Murramore  
## 4906 672.4373 Nerreman-Murramore  
## 4907 708.5587 Nerreman-Murramore  
## 4908 739.5358 Nerreman-Murramore  
## 4909 591.2689 Nerreman-Murramore  
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## 4911 653.2932 Nerreman-Murramore  
## 4912 646.0959 Nerreman-Murramore  
## 4913 751.8131 Nerreman-Murramore  
## 4914 704.0882 Nerreman-Murramore  
## 4915 742.4975 Nerreman-Murramore  
## 4916 699.8858 Nerreman-Murramore  
## 4917 642.2476 Nerreman-Murramore  
## 4918 662.8968 Nerreman-Murramore  
## 4919 804.4402 Nerreman-Murramore  
## 4920 812.8201 Nerreman-Murramore  
## 4921 784.4154 Nerreman-Murramore  
## 4922 750.2043 Nerreman-Murramore  
## 4923 888.0111 Nerreman-Tharwa Sandwash  
## 4924 780.2178 Nerreman-Tharwa Sandwash  
## 4925 746.0852 Nerreman-Tharwa Sandwash  
## 4926 691.7549 Nerreman-Tharwa Sandwash  
## 4927 694.3737 Nerreman-Tharwa Sandwash  
## 4928 773.0454 Nerreman-Tharwa Sandwash  
## 4929 787.7910 Nerreman-Tharwa Sandwash  
## 4930 837.9167 Nerreman-Tharwa Sandwash  
## 4931 834.5277 Nerreman-Tharwa Sandwash  
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## 4933 670.2443 Nerreman-Tharwa Sandwash  
## 4934 735.7801 Nerreman-Tharwa Sandwash  
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## 4936 700.0433 Nerreman-Tharwa Sandwash  
## 4937 820.8301 Nerreman-Tharwa Sandwash  
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## 4942 780.2458 Nerreman-Tharwa Sandwash  
## 4943 743.4378 Nerreman-Tharwa Sandwash  
## 4944 661.6620 Nerreman-Tharwa Sandwash  
## 4945 715.8579 Nerreman-Tharwa Sandwash  
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## 4952 767.2769 Nerreman-Tharwa Sandwash  
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## 4956 700.2843 Nerreman-Tharwa Sandwash  
## 4957 943.7395 Nerreman-Tharwa Sandwash  
## 4958 697.5790 Nerreman-Tharwa Sandwash  
## 4959 796.8619 Nerreman-Tharwa Sandwash  
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## 4961 761.8769 Nerreman-Tharwa Sandwash  
## 4962 661.3815 Nerreman-Tharwa Sandwash  
## 4963 871.7968 Nerreman-Tharwa Sandwash  
## 4964 881.0136 Nerreman-Tharwa Sandwash  
## 4965 731.0222 Nerreman-Tharwa Sandwash  
## 4966 808.6337 Nerreman-Tharwa Sandwash  
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## 4969 729.1648 Nerreman-Tharwa Sandwash  
## 4970 722.0447 Nerreman-Tharwa Sandwash  
## 4971 723.9088 Nerreman-Tharwa Sandwash  
## 4972 862.8636 Nerreman-Kambah Pool  
## 4973 871.8448 Nerreman-Tharwa Sandwash  
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## 4975 719.6996 Nerreman-Kambah Pool  
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## 4977 650.6487 Nerreman-Kambah Pool  
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## 4979 791.2123 Nerreman-Kambah Pool  
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## 4981 726.9092 Nerreman-Kambah Pool  
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## 4984 757.8691 Nerreman-Kambah Pool  
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## 4992 768.7976 Nerreman-Kambah Pool  
## 4993 732.6593 Nerreman-Kambah Pool  
## 4994 708.0157 Nerreman-Lanyon  
## 4995 752.0892 Nerreman-Lanyon  
## 4996 737.1096 Nerreman-Lanyon  
## 4997 790.9931 Nerreman-Lanyon  
## 4998 738.0810 Nerreman-Kambah Pool  
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## 5001 755.2956 Nerreman-Kambah Pool  
## 5002 701.7777 Nerreman-Kambah Pool  
## 5003 699.6211 Nerreman-Tharwa Sandwash  
## 5004 878.1222 Nerreman-Tharwa Sandwash  
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## 5013 636.0042 Nerreman-Kambah Pool  
## 5014 711.1912 Nerreman-Kambah Pool  
## 5015 674.0003 Nerreman-Tharwa Sandwash  
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## 5017 572.1346 Nerreman-Bullen Range  
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## 5043 624.2697 Nerreman-Bullen Range  
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## 5049 685.4443 Nerreman-Kambah Pool  
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## 5054 678.8445 Nerreman-Kambah Pool  
## 5055 630.6529 Nerreman-Lanyon  
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## 5071 745.7891 Nerreman-Lanyon  
## 5072 722.2303 Nerreman-Murramore  
## 5073 754.2778 Nerreman-Murramore  
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## 5080 760.1904 Nerreman-Murramore  
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## 5137 790.4596 Nerreman-Tharwa Sandwash  
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## 5140 753.4559 Nerreman-Tharwa Sandwash  
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## 5158 845.4783 Nerreman-Kambah Pool  
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## 5160 882.4044 Nerreman-Kambah Pool  
## 5161 740.2125 Nerreman-Lanyon  
## 5162 762.6093 Nerreman-Lanyon  
## 5163 817.5911 Nerreman-Lanyon  
## 5164 762.7784 Nerreman-Lanyon  
## 5165 789.8392 Nerreman-Kambah Pool  
## 5166 810.7884 Nerreman-Kambah Pool  
## 5167 758.6506 Nerreman-Kambah Pool  
## 5168 717.1738 Nerreman-Kambah Pool  
## 5169 831.8721 Nerreman-Kambah Pool  
## 5170 795.7331 Nerreman-Tharwa Sandwash  
## 5171 909.6725 Nerreman-Tharwa Sandwash  
## 5172 925.8195 Nerreman-Kambah Pool  
## 5173 796.9167 Nerreman-Kambah Pool  
## 5174 888.8722 Nerreman-Kambah Pool  
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## 5177 951.9930 Nerreman-Kambah Pool  
## 5178 804.5484 Nerreman-Kambah Pool  
## 5179 868.4540 Nerreman-Kambah Pool  
## 5180 698.8422 Nerreman-Kambah Pool  
## 5181 852.0089 Nerreman-Kambah Pool  
## 5182 723.1919 Nerreman-Tharwa Sandwash  
## 5183 747.9026 Nerreman-Bullen Range  
## 5184 819.9406 Nerreman-Bullen Range  
## 5185 864.7029 Nerreman-Bullen Range  
## 5186 719.1338 Nerreman-Bullen Range  
## 5187 846.7390 Nerreman-Bullen Range  
## 5188 773.7333 Nerreman-Bullen Range  
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## 5191 743.4694 Nerreman-Bullen Range  
## 5192 898.9622 Nerreman-Bullen Range  
## 5193 842.7221 Nerreman-Bullen Range  
## 5194 724.2583 Nerreman-Bullen Range  
## 5195 792.0547 Nerreman-Bullen Range  
## 5196 764.2799 Nerreman-Bullen Range  
## 5197 829.0951 Nerreman-Bullen Range  
## 5198 854.1650 Nerreman-Bullen Range  
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## 5209 860.2380 Nerreman-Bullen Range  
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## 5212 800.0640 Nerreman-Bullen Range  
## 5213 571.5209 Nerreman-Bullen Range  
## 5214 757.8121 Nerreman-Bullen Range  
## 5215 907.8574 Nerreman-Bullen Range  
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## 5217 858.7434 Nerreman-Kambah Pool  
## 5218 801.8759 Nerreman-Kambah Pool  
## 5219 837.5570 Nerreman-Kambah Pool  
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## 5222 787.5571 Nerreman-Lanyon  
## 5223 703.8430 Nerreman-Lanyon  
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## 5229 778.3385 Nerreman-Lanyon  
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## 5231 896.0950 Nerreman-Lanyon  
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## 5233 776.6918 Nerreman-Lanyon  
## 5234 767.5463 Nerreman-Lanyon  
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## 5236 799.0628 Nerreman-Lanyon  
## 5237 742.6337 Nerreman-Lanyon  
## 5238 770.1286 Nerreman-Lanyon  
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## 5240 845.6705 Nerreman-Murramore  
## 5241 732.3374 Nerreman-Murramore  
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## 5253 822.7410 Nerreman-Murramore  
## 5254 773.8097 Nerreman-Murramore  
## 5255 880.3042 Nerreman-Murramore  
## 5256 842.1795 Nerreman-Murramore  
## 5257 892.7033 Nerreman-Tharwa Sandwash  
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## 5259 721.1358 Nerreman-Tharwa Sandwash  
## 5260 803.8938 Nerreman-Tharwa Sandwash  
## 5261 788.2678 Nerreman-Tharwa Sandwash  
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## 5308 681.5302 Nerreman-Kambah Pool  
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## 5330 754.1167 Nerreman-Lanyon  
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## 5332 723.4375 Nerreman-Kambah Pool  
## 5333 701.6304 Nerreman-Kambah Pool  
## 5334 739.9346 Nerreman-Kambah Pool  
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## 5336 763.0209 Nerreman-Kambah Pool  
## 5337 743.4896 Nerreman-Tharwa Sandwash  
## 5338 914.4353 Nerreman-Tharwa Sandwash  
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## 5342 788.7767 Nerreman-Kambah Pool  
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## 5347 653.2010 Nerreman-Kambah Pool  
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## 5357 682.2729 Nerreman-Bullen Range  
## 5358 703.5303 Nerreman-Bullen Range  
## 5359 730.6790 Nerreman-Bullen Range  
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## 5362 814.0828 Nerreman-Bullen Range  
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## 5374 707.5491 Nerreman-Bullen Range  
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## 5376 733.1629 Nerreman-Bullen Range  
## 5377 530.0524 Nerreman-Bullen Range  
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## 5379 750.4963 Nerreman-Bullen Range  
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## 5382 770.3411 Nerreman-Bullen Range  
## 5383 701.7093 Nerreman-Kambah Pool  
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## 5422 868.1250 Nerreman-Murramore  
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## 5424 935.9489 Nerreman-Tharwa Sandwash  
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## 5518 748.8751 Nerreman-Bullen Range  
## 5519 752.1268 Nerreman-Bullen Range  
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## 5636 648.4262 Nerreman-Tharwa Sandwash  
## 5637 677.2857 Nerreman-Tharwa Sandwash  
## 5638 750.6937 Nerreman-Tharwa Sandwash  
## 5639 663.3296 Nerreman-Tharwa Sandwash  
## 5640 879.8746 Nerreman-Kambah Pool  
## 5641 721.4978 Nerreman-Tharwa Sandwash  
## 5642 700.5483 Nerreman-Kambah Pool  
## 5643 689.3249 Nerreman-Kambah Pool  
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## 5645 652.9249 Nerreman-Kambah Pool  
## 5646 662.2612 Nerreman-Kambah Pool  
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## 5648 698.2499 Nerreman-Kambah Pool  
## 5649 753.0814 Nerreman-Kambah Pool  
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## 5653 804.4647 Nerreman-Kambah Pool  
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## 5655 815.2292 Nerreman-Kambah Pool  
## 5656 794.9922 Nerreman-Kambah Pool  
## 5657 838.6117 Nerreman-Kambah Pool  
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## 5664 726.8381 Nerreman-Lanyon  
## 5665 782.6659 Nerreman-Lanyon  
## 5666 916.3277 Nerreman-Kambah Pool  
## 5667 710.1007 Nerreman-Kambah Pool  
## 5668 704.5072 Nerreman-Kambah Pool  
## 5669 858.6053 Nerreman-Kambah Pool  
## 5670 711.2025 Nerreman-Kambah Pool  
## 5671 665.6442 Nerreman-Tharwa Sandwash  
## 5672 899.6070 Nerreman-Tharwa Sandwash  
## 5673 666.7200 Nerreman-Kambah Pool  
## 5674 679.2920 Nerreman-Kambah Pool  
## 5675 724.5593 Nerreman-Kambah Pool  
## 5676 798.7023 Nerreman-Kambah Pool  
## 5677 663.0072 Nerreman-Kambah Pool  
## 5678 679.5415 Nerreman-Kambah Pool  
## 5679 794.7912 Nerreman-Kambah Pool  
## 5680 574.4374 Nerreman-Kambah Pool  
## 5681 527.8763 Nerreman-Kambah Pool  
## 5682 612.7709 Nerreman-Kambah Pool  
## 5683 686.6259 Nerreman-Tharwa Sandwash  
## 5684 791.5144 Nerreman-Bullen Range  
## 5685 714.3429 Nerreman-Bullen Range  
## 5686 771.1830 Nerreman-Bullen Range  
## 5687 726.9432 Nerreman-Bullen Range  
## 5688 725.5549 Nerreman-Bullen Range  
## 5689 683.6656 Nerreman-Bullen Range  
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## 5706 687.9983 Nerreman-Bullen Range  
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## 5709 737.4617 Nerreman-Bullen Range  
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## 5711 638.1021 Nerreman-Bullen Range  
## 5712 719.3594 Nerreman-Bullen Range  
## 5713 735.9627 Nerreman-Bullen Range  
## 5714 702.5869 Nerreman-Bullen Range  
## 5715 742.8422 Nerreman-Bullen Range  
## 5716 727.2631 Nerreman-Bullen Range  
## 5717 770.0500 Nerreman-Kambah Pool  
## 5718 779.5104 Nerreman-Kambah Pool  
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## 5720 753.4428 Nerreman-Kambah Pool  
## 5721 708.4762 Nerreman-Kambah Pool  
## 5722 731.5922 Nerreman-Kambah Pool  
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## 5726 760.3686 Nerreman-Lanyon  
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## 5729 622.3169 Nerreman-Lanyon  
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## 5734 719.0876 Nerreman-Lanyon  
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## 5736 736.9080 Nerreman-Lanyon  
## 5737 745.4326 Nerreman-Lanyon  
## 5738 756.8515 Nerreman-Lanyon  
## 5739 714.0910 Nerreman-Lanyon  
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## 5741 712.2231 Nerreman-Murramore  
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## 5744 705.4902 Nerreman-Murramore  
## 5745 710.2361 Nerreman-Murramore  
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## 5756 843.8653 Nerreman-Murramore  
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## 5758 903.1614 Nerreman-Tharwa Sandwash  
## 5759 771.7265 Nerreman-Tharwa Sandwash  
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## 5763 719.0708 Nerreman-Tharwa Sandwash  
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## 5765 894.2593 Nerreman-Tharwa Sandwash  
## 5766 768.2134 Nerreman-Tharwa Sandwash  
## 5767 724.1409 Nerreman-Tharwa Sandwash  
## 5768 638.2954 Nerreman-Tharwa Sandwash  
## 5769 785.1214 Nerreman-Tharwa Sandwash  
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## 5771 772.2625 Nerreman-Tharwa Sandwash  
## 5772 805.5051 Nerreman-Tharwa Sandwash  
## 5773 686.6551 Nerreman-Tharwa Sandwash  
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## 5803 735.8001 Nerreman-Tharwa Sandwash  
## 5804 672.5023 Nerreman-Tharwa Sandwash  
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## 5806 783.0373 Nerreman-Tharwa Sandwash  
## 5807 720.3164 Nerreman-Kambah Pool  
## 5808 667.9223 Nerreman-Tharwa Sandwash  
## 5809 667.2142 Nerreman-Kambah Pool  
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## 5813 838.2663 Nerreman-Kambah Pool  
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## 5815 783.2707 Nerreman-Kambah Pool  
## 5816 822.0562 Nerreman-Kambah Pool  
## 5817 873.3093 Nerreman-Kambah Pool  
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## 5820 742.3378 Nerreman-Kambah Pool  
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## 5822 691.0181 Nerreman-Kambah Pool  
## 5823 719.1435 Nerreman-Kambah Pool  
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## 5825 743.8735 Nerreman-Kambah Pool  
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## 5828 799.7836 Nerreman-Kambah Pool  
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## 5830 683.0165 Nerreman-Lanyon  
## 5831 697.1993 Nerreman-Lanyon  
## 5832 700.6809 Nerreman-Lanyon  
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## 5839 711.5404 Nerreman-Tharwa Sandwash  
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## 5853 782.4239 Nerreman-Bullen Range  
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## 5855 699.3566 Nerreman-Bullen Range  
## 5856 642.8509 Nerreman-Bullen Range  
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## 5863 673.5469 Nerreman-Bullen Range  
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## 5903 690.4855 Nerreman-Lanyon  
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## 5908 789.1501 Nerreman-Murramore  
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## 5922 727.1956 Nerreman-Murramore  
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## 5924 730.8061 Nerreman-Murramore  
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## 5927 688.6573 Nerreman-Tharwa Sandwash  
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## 5945 678.8553 Nerreman-Tharwa Sandwash  
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## 5972 690.8511 Nerreman-Tharwa Sandwash  
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## 5975 586.3309 Nerreman-Tharwa Sandwash  
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## 6019 656.2472 Nerreman-Bullen Range  
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## 6022 704.8737 Nerreman-Bullen Range  
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## 6035 811.3718 Nerreman-Bullen Range  
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## 6075 745.4766 Nerreman-Murramore  
## 6076 628.0696 Nerreman-Murramore  
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## 6078 587.5954 Nerreman-Murramore  
## 6079 739.7993 Nerreman-Murramore  
## 6080 711.8452 Nerreman-Murramore  
## 6081 739.1175 Nerreman-Murramore  
## 6082 554.9098 Nerreman-Murramore  
## 6083 694.5000 Nerreman-Murramore  
## 6084 692.7681 Nerreman-Murramore  
## 6085 722.0794 Nerreman-Murramore  
## 6086 653.2468 Nerreman-Murramore  
## 6087 685.0342 Nerreman-Murramore  
## 6088 679.7299 Nerreman-Murramore  
## 6089 674.9434 Nerreman-Murramore  
## 6090 711.0251 Nerreman-Murramore  
## 6091 697.3270 Nerreman-Murramore  
## 6092 725.3110 Nerreman-Tharwa Sandwash  
## 6093 651.9426 Nerreman-Tharwa Sandwash  
## 6094 636.7387 Nerreman-Tharwa Sandwash  
## 6095 656.5453 Nerreman-Tharwa Sandwash  
## 6096 631.0203 Nerreman-Tharwa Sandwash  
## 6097 697.5214 Nerreman-Tharwa Sandwash  
## 6098 715.3812 Nerreman-Tharwa Sandwash  
## 6099 716.7171 Nerreman-Tharwa Sandwash  
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## 6103 651.9197 Nerreman-Tharwa Sandwash  
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## 6118 808.6787 Nerreman-Tharwa Sandwash  
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## 6124 668.1974 Nerreman-Tharwa Sandwash  
## 6125 683.5233 Nerreman-Tharwa Sandwash  
## 6126 769.6566 Nerreman-Tharwa Sandwash  
## 6127 733.7009 Nerreman-Tharwa Sandwash  
## 6128 746.2640 Nerreman-Tharwa Sandwash  
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## 6132 894.3453 Nerreman-Tharwa Sandwash  
## 6133 872.5686 Nerreman-Tharwa Sandwash  
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## 6135 611.0604 Nerreman-Tharwa Sandwash  
## 6136 572.6175 Nerreman-Tharwa Sandwash  
## 6137 584.4224 Nerreman-Tharwa Sandwash  
## 6138 649.0819 Nerreman-Tharwa Sandwash  
## 6139 620.4492 Nerreman-Tharwa Sandwash  
## 6140 592.1631 Nerreman-Tharwa Sandwash  
## 6141 788.5297 Nerreman-Kambah Pool  
## 6142 690.3696 Nerreman-Tharwa Sandwash  
## 6143 733.5317 Nerreman-Kambah Pool  
## 6144 650.2387 Nerreman-Kambah Pool  
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## 6159 775.0808 Nerreman-Kambah Pool  
## 6160 771.9462 Nerreman-Kambah Pool  
## 6161 716.4260 Nerreman-Kambah Pool  
## 6162 714.0634 Nerreman-Kambah Pool  
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## 6164 751.8254 Nerreman-Lanyon  
## 6165 751.9398 Nerreman-Lanyon  
## 6166 814.6501 Nerreman-Lanyon  
## 6167 742.4796 Nerreman-Kambah Pool  
## 6168 717.2231 Nerreman-Kambah Pool  
## 6169 689.8638 Nerreman-Kambah Pool  
## 6170 647.8041 Nerreman-Kambah Pool  
## 6171 662.1257 Nerreman-Kambah Pool  
## 6172 748.0306 Nerreman-Tharwa Sandwash  
## 6173 802.9098 Nerreman-Tharwa Sandwash  
## 6174 637.3355 Nerreman-Kambah Pool  
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## 6176 674.9544 Nerreman-Kambah Pool  
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## 6183 667.8704 Nerreman-Kambah Pool  
## 6184 650.4585 Nerreman-Tharwa Sandwash  
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## 6186 651.9387 Nerreman-Bullen Range  
## 6187 619.0529 Nerreman-Bullen Range  
## 6188 651.4169 Nerreman-Bullen Range  
## 6189 687.7852 Nerreman-Bullen Range  
## 6190 631.8904 Nerreman-Bullen Range  
## 6191 662.3890 Nerreman-Bullen Range  
## 6192 702.4422 Nerreman-Bullen Range  
## 6193 751.2072 Nerreman-Bullen Range  
## 6194 755.6328 Nerreman-Bullen Range  
## 6195 720.3756 Nerreman-Bullen Range  
## 6196 682.0240 Nerreman-Bullen Range  
## 6197 715.1182 Nerreman-Bullen Range  
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## 6203 564.7610 Nerreman-Bullen Range  
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## 6205 678.1972 Nerreman-Bullen Range  
## 6206 725.6686 Nerreman-Bullen Range  
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## 6216 658.9051 Nerreman-Bullen Range  
## 6217 681.3662 Nerreman-Bullen Range  
## 6218 745.4130 Nerreman-Kambah Pool  
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## 6220 630.6645 Nerreman-Kambah Pool  
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## 6222 675.0184 Nerreman-Kambah Pool  
## 6223 803.7613 Nerreman-Kambah Pool  
## 6224 708.2310 Nerreman-Lanyon  
## 6225 615.0666 Nerreman-Lanyon  
## 6226 697.6537 Nerreman-Lanyon  
## 6227 781.8807 Nerreman-Lanyon  
## 6228 645.9405 Nerreman-Lanyon  
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## 6230 642.4845 Nerreman-Lanyon  
## 6231 685.0774 Nerreman-Lanyon  
## 6232 694.5000 Nerreman-Lanyon  
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## 6237 670.0704 Nerreman-Lanyon  
## 6238 720.1037 Nerreman-Lanyon  
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## 6240 641.0769 Nerreman-Lanyon  
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## 6245 677.0053 Nerreman-Murramore  
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## 6248 695.4478 Nerreman-Murramore  
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## 6256 785.4565 Nerreman-Murramore  
## 6257 808.5471 Nerreman-Murramore  
## 6258 725.6729 Nerreman-Murramore  
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## 6261 726.8406 Nerreman-Tharwa Sandwash  
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## 6263 688.8897 Nerreman-Tharwa Sandwash  
## 6264 725.9526 Nerreman-Tharwa Sandwash  
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## 6288 703.8311 Nerreman-Tharwa Sandwash  
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## 6292 687.7730 Nerreman-Tharwa Sandwash  
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## 6308 792.1808 Nerreman-Kambah Pool  
## 6309 707.8387 Nerreman-Tharwa Sandwash  
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## 6312 704.9050 Nerreman-Kambah Pool  
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## 6314 845.6219 Nerreman-Kambah Pool  
## 6315 785.1233 Nerreman-Kambah Pool  
## 6316 796.2321 Nerreman-Kambah Pool  
## 6317 764.2196 Nerreman-Kambah Pool  
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## 6325 739.2103 Nerreman-Kambah Pool  
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## 6327 787.5285 Nerreman-Kambah Pool  
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## 6329 865.9534 Nerreman-Kambah Pool  
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## 6331 833.4000 Nerreman-Lanyon  
## 6332 794.1699 Nerreman-Lanyon  
## 6333 800.2164 Nerreman-Lanyon  
## 6334 731.8102 Nerreman-Kambah Pool  
## 6335 835.5638 Nerreman-Kambah Pool  
## 6336 653.7102 Nerreman-Kambah Pool  
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## 6348 735.2589 Nerreman-Kambah Pool  
## 6349 713.0002 Nerreman-Kambah Pool  
## 6350 832.5901 Nerreman-Kambah Pool  
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## 6353 765.8700 Nerreman-Bullen Range  
## 6354 730.9191 Nerreman-Bullen Range  
## 6355 662.0153 Nerreman-Bullen Range  
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## 6391 774.2289 Nerreman-Lanyon  
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## 6395 697.2190 Nerreman-Lanyon  
## 6396 691.7977 Nerreman-Lanyon  
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## 6398 664.2086 Nerreman-Lanyon  
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## 6400 739.7041 Nerreman-Lanyon  
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## 6406 687.5284 Nerreman-Lanyon  
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## 6490 731.1129 Nerreman-Kambah Pool  
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## 6507 820.1935 Nerreman-Tharwa Sandwash  
## 6508 693.9188 Nerreman-Kambah Pool  
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## 6512 728.7695 Nerreman-Kambah Pool  
## 6513 824.0741 Nerreman-Kambah Pool  
## 6514 744.4350 Nerreman-Kambah Pool  
## 6515 655.2451 Nerreman-Kambah Pool  
## 6516 587.5431 Nerreman-Kambah Pool  
## 6517 753.5800 Nerreman-Kambah Pool  
## 6518 716.6500 Nerreman-Tharwa Sandwash  
## 6519 652.1856 Nerreman-Bullen Range  
## 6520 675.4353 Nerreman-Bullen Range  
## 6521 811.1925 Nerreman-Bullen Range  
## 6522 734.0101 Nerreman-Bullen Range  
## 6523 668.0148 Nerreman-Bullen Range  
## 6524 673.0473 Nerreman-Bullen Range  
## 6525 681.7982 Nerreman-Bullen Range  
## 6526 584.7807 Nerreman-Bullen Range  
## 6527 699.9005 Nerreman-Bullen Range  
## 6528 716.6230 Nerreman-Bullen Range  
## 6529 650.4585 Nerreman-Bullen Range  
## 6530 724.2643 Nerreman-Bullen Range  
## 6531 671.3500 Nerreman-Bullen Range  
## 6532 641.4327 Nerreman-Bullen Range  
## 6533 765.1406 Nerreman-Bullen Range  
## 6534 705.5079 Nerreman-Bullen Range  
## 6535 630.6458 Nerreman-Bullen Range  
## 6536 638.1060 Nerreman-Bullen Range  
## 6537 636.2784 Nerreman-Bullen Range  
## 6538 603.4607 Nerreman-Bullen Range  
## 6539 630.0619 Nerreman-Bullen Range  
## 6540 608.2974 Nerreman-Bullen Range  
## 6541 652.4970 Nerreman-Bullen Range  
## 6542 755.6061 Nerreman-Bullen Range  
## 6543 872.8305 Nerreman-Bullen Range  
## 6544 685.4951 Nerreman-Bullen Range  
## 6545 670.1925 Nerreman-Bullen Range  
## 6546 707.7140 Nerreman-Bullen Range  
## 6547 697.0717 Nerreman-Bullen Range  
## 6548 745.4886 Nerreman-Bullen Range  
## 6549 671.6481 Nerreman-Bullen Range  
## 6550 653.2003 Nerreman-Bullen Range  
## 6551 692.7047 Nerreman-Bullen Range  
## 6552 694.5000 Nerreman-Kambah Pool  
## 6553 703.1166 Nerreman-Kambah Pool  
## 6554 772.5645 Nerreman-Kambah Pool  
## 6555 707.6038 Nerreman-Kambah Pool  
## 6556 585.5719 Nerreman-Kambah Pool  
## 6557 723.2263 Nerreman-Kambah Pool  
## 6558 689.2228 Nerreman-Lanyon  
## 6559 616.2799 Nerreman-Lanyon  
## 6560 659.3508 Nerreman-Lanyon  
## 6561 878.7185 Nerreman-Lanyon  
## 6562 657.6252 Nerreman-Lanyon  
## 6563 762.7582 Nerreman-Lanyon  
## 6564 624.6807 Nerreman-Lanyon  
## 6565 823.3185 Nerreman-Lanyon  
## 6566 710.4393 Nerreman-Lanyon  
## 6567 716.6328 Nerreman-Lanyon  
## 6568 658.6423 Nerreman-Lanyon  
## 6569 686.6966 Nerreman-Lanyon  
## 6570 616.2958 Nerreman-Lanyon  
## 6571 700.4451 Nerreman-Lanyon  
## 6572 719.7111 Nerreman-Lanyon  
## 6573 700.7388 Nerreman-Lanyon  
## 6574 705.5396 Nerreman-Lanyon  
## 6575 782.0661 Nerreman-Murramore  
## 6576 777.5545 Nerreman-Murramore  
## 6577 680.8263 Nerreman-Murramore  
## 6578 772.7323 Nerreman-Murramore  
## 6579 675.1426 Nerreman-Murramore  
## 6580 668.7321 Nerreman-Murramore  
## 6581 545.5666 Nerreman-Murramore  
## 6582 615.6263 Nerreman-Murramore  
## 6583 654.9237 Nerreman-Murramore  
## 6584 570.9723 Nerreman-Murramore  
## 6585 762.8375 Nerreman-Murramore  
## 6586 675.9907 Nerreman-Murramore  
## 6587 609.2334 Nerreman-Murramore  
## 6588 736.2474 Nerreman-Murramore  
## 6589 691.8061 Nerreman-Murramore  
## 6590 802.0857 Nerreman-Murramore  
## 6591 777.2139 Nerreman-Murramore  
## 6592 684.6676 Nerreman-Murramore  
## 6593 883.3272 Nerreman-Tharwa Sandwash  
## 6594 758.2255 Nerreman-Tharwa Sandwash  
## 6595 783.3266 Nerreman-Tharwa Sandwash  
## 6596 828.6558 Nerreman-Tharwa Sandwash  
## 6597 812.6845 Nerreman-Tharwa Sandwash  
## 6598 837.8009 Nerreman-Tharwa Sandwash  
## 6599 789.3514 Nerreman-Tharwa Sandwash  
## 6600 830.4574 Nerreman-Tharwa Sandwash  
## 6601 785.9175 Nerreman-Tharwa Sandwash  
## 6602 803.9976 Nerreman-Tharwa Sandwash  
## 6603 720.5659 Nerreman-Tharwa Sandwash  
## 6604 845.3818 Nerreman-Tharwa Sandwash  
## 6605 752.3072 Nerreman-Tharwa Sandwash  
## 6606 842.3338 Nerreman-Tharwa Sandwash  
## 6607 800.7020 Nerreman-Tharwa Sandwash  
## 6608 800.0036 Nerreman-Tharwa Sandwash  
## 6609 807.8457 Nerreman-Tharwa Sandwash  
## 6610 825.6594 Nerreman-Tharwa Sandwash  
## 6611 693.6896 Nerreman-Tharwa Sandwash  
## 6612 833.2293 Nerreman-Tharwa Sandwash  
## 6613 677.2265 Nerreman-Tharwa Sandwash  
## 6614 635.0877 Nerreman-Tharwa Sandwash  
## 6615 759.7421 Nerreman-Tharwa Sandwash  
## 6616 790.3223 Nerreman-Tharwa Sandwash  
## 6617 712.7872 Nerreman-Tharwa Sandwash  
## 6618 713.0516 Nerreman-Tharwa Sandwash  
## 6619 818.4854 Nerreman-Tharwa Sandwash  
## 6620 833.9106 Nerreman-Tharwa Sandwash  
## 6621 674.8178 Nerreman-Tharwa Sandwash  
## 6622 706.2712 Nerreman-Tharwa Sandwash  
## 6623 781.4632 Nerreman-Tharwa Sandwash  
## 6624 597.0175 Nerreman-Tharwa Sandwash  
## 6625 709.9570 Nerreman-Tharwa Sandwash  
## 6626 603.4113 Nerreman-Tharwa Sandwash  
## 6627 787.0097 Nerreman-Tharwa Sandwash  
## 6628 714.7513 Nerreman-Tharwa Sandwash  
## 6629 765.9780 Nerreman-Tharwa Sandwash  
## 6630 648.6805 Nerreman-Tharwa Sandwash  
## 6631 750.1587 Nerreman-Tharwa Sandwash  
## 6632 701.0055 Nerreman-Tharwa Sandwash  
## 6633 854.1680 Nerreman-Tharwa Sandwash  
## 6634 894.3468 Nerreman-Tharwa Sandwash  
## 6635 593.8886 Nerreman-Tharwa Sandwash  
## 6636 821.9126 Nerreman-Tharwa Sandwash  
## 6637 780.1376 Nerreman-Tharwa Sandwash  
## 6638 789.4868 Nerreman-Tharwa Sandwash  
## 6639 707.6508 Nerreman-Tharwa Sandwash  
## 6640 745.9394 Nerreman-Tharwa Sandwash  
## 6641 544.4605 Nerreman-Tharwa Sandwash  
## 6642 811.5241 Nerreman-Kambah Pool  
## 6643 817.3515 Nerreman-Tharwa Sandwash  
## 6644 852.9911 Nerreman-Kambah Pool  
## 6645 655.3344 Nerreman-Kambah Pool  
## 6646 678.8933 Nerreman-Kambah Pool  
## 6647 894.5388 Nerreman-Kambah Pool  
## 6648 979.4154 Nerreman-Kambah Pool  
## 6649 817.4844 Nerreman-Kambah Pool  
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## 6652 887.6450 Nerreman-Kambah Pool  
## 6653 874.9868 Nerreman-Kambah Pool  
## 6654 796.7606 Nerreman-Kambah Pool  
## 6655 749.3597 Nerreman-Kambah Pool  
## 6656 917.3133 Nerreman-Kambah Pool  
## 6657 828.2236 Nerreman-Kambah Pool  
## 6658 962.1982 Nerreman-Kambah Pool  
## 6659 650.7785 Nerreman-Kambah Pool  
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## 6661 930.5392 Nerreman-Kambah Pool  
## 6662 671.9821 Nerreman-Kambah Pool  
## 6663 841.6816 Nerreman-Kambah Pool  
## 6664 613.4800 Nerreman-Lanyon  
## 6665 746.0314 Nerreman-Lanyon  
## 6666 794.5262 Nerreman-Lanyon  
## 6667 827.2721 Nerreman-Lanyon  
## 6668 718.0667 Nerreman-Kambah Pool  
## 6669 806.2334 Nerreman-Kambah Pool  
## 6670 785.1233 Nerreman-Kambah Pool  
## 6671 740.8759 Nerreman-Kambah Pool  
## 6672 694.9365 Nerreman-Kambah Pool  
## 6673 823.5953 Nerreman-Tharwa Sandwash  
## 6674 843.6258 Nerreman-Tharwa Sandwash  
## 6675 880.0092 Nerreman-Kambah Pool  
## 6676 822.1721 Nerreman-Kambah Pool  
## 6677 822.7221 Nerreman-Kambah Pool  
## 6678 866.6641 Nerreman-Kambah Pool  
## 6679 750.4550 Nerreman-Kambah Pool  
## 6680 849.2332 Nerreman-Kambah Pool  
## 6681 827.7402 Nerreman-Kambah Pool  
## 6682 785.7430 Nerreman-Kambah Pool  
## 6683 719.7240 Nerreman-Kambah Pool  
## 6684 795.1832 Nerreman-Kambah Pool  
## 6685 696.0337 Nerreman-Tharwa Sandwash  
## 6686 756.8819 Nerreman-Bullen Range  
## 6687 810.1814 Nerreman-Bullen Range  
## 6688 795.6007 Nerreman-Bullen Range  
## 6689 725.7946 Nerreman-Bullen Range  
## 6690 798.1859 Nerreman-Bullen Range  
## 6691 784.6791 Nerreman-Bullen Range  
## 6692 771.3144 Nerreman-Bullen Range  
## 6693 835.4513 Nerreman-Bullen Range  
## 6694 824.8497 Nerreman-Bullen Range  
## 6695 849.1309 Nerreman-Bullen Range  
## 6696 799.1769 Nerreman-Bullen Range  
## 6697 739.7871 Nerreman-Bullen Range  
## 6698 739.8329 Nerreman-Bullen Range  
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## 6701 781.6629 Nerreman-Bullen Range  
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## 6703 718.1387 Nerreman-Bullen Range  
## 6704 739.5472 Nerreman-Bullen Range  
## 6705 758.7813 Nerreman-Bullen Range  
## 6706 769.2438 Nerreman-Bullen Range  
## 6707 755.3775 Nerreman-Bullen Range  
## 6708 858.8922 Nerreman-Bullen Range  
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## 6712 845.5853 Nerreman-Bullen Range  
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## 6714 735.5219 Nerreman-Bullen Range  
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## 6716 714.1574 Nerreman-Bullen Range  
## 6717 717.3669 Nerreman-Bullen Range  
## 6718 801.0759 Nerreman-Bullen Range  
## 6719 799.7273 Nerreman-Kambah Pool  
## 6720 774.4182 Nerreman-Kambah Pool  
## 6721 717.2231 Nerreman-Kambah Pool  
## 6722 790.8175 Nerreman-Kambah Pool  
## 6723 803.9115 Nerreman-Kambah Pool  
## 6724 877.9938 Nerreman-Kambah Pool  
## 6725 797.0277 Nerreman-Lanyon  
## 6726 809.7946 Nerreman-Lanyon  
## 6727 857.7560 Nerreman-Lanyon  
## 6728 876.3961 Nerreman-Lanyon  
## 6729 790.6615 Nerreman-Lanyon  
## 6730 743.8237 Nerreman-Lanyon  
## 6731 732.6593 Nerreman-Lanyon  
## 6732 770.0566 Nerreman-Lanyon  
## 6733 840.1810 Nerreman-Lanyon  
## 6734 873.9652 Nerreman-Lanyon  
## 6735 809.2240 Nerreman-Lanyon  
## 6736 737.1771 Nerreman-Lanyon  
## 6737 749.2713 Nerreman-Lanyon  
## 6738 724.2257 Nerreman-Lanyon  
## 6739 838.0933 Nerreman-Lanyon  
## 6740 747.5995 Nerreman-Lanyon  
## 6741 667.9985 Nerreman-Lanyon  
## 6742 743.8428 Nerreman-Murramore  
## 6743 843.2378 Nerreman-Murramore  
## 6744 736.0589 Nerreman-Murramore  
## 6745 706.1527 Nerreman-Murramore  
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## 6752 828.7767 Nerreman-Murramore  
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## 6754 647.8728 Nerreman-Murramore  
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## 6756 782.9884 Nerreman-Murramore  
## 6757 758.9632 Nerreman-Murramore  
## 6758 906.6425 Nerreman-Murramore  
## 6759 812.3840 Nerreman-Murramore  
## 6760 871.9064 Nerreman-Tharwa Sandwash  
## 6761 791.6020 Nerreman-Tharwa Sandwash  
## 6762 773.9815 Nerreman-Tharwa Sandwash  
## 6763 702.2575 Nerreman-Tharwa Sandwash  
## 6764 702.3793 Nerreman-Tharwa Sandwash  
## 6765 764.1490 Nerreman-Tharwa Sandwash  
## 6766 828.1062 Nerreman-Tharwa Sandwash  
## 6767 815.8689 Nerreman-Tharwa Sandwash  
## 6768 887.3509 Nerreman-Tharwa Sandwash  
## 6769 779.3277 Nerreman-Tharwa Sandwash  
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## 6772 699.1668 Nerreman-Tharwa Sandwash  
## 6773 748.0539 Nerreman-Tharwa Sandwash  
## 6774 836.7336 Nerreman-Tharwa Sandwash  
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## 6778 776.0405 Nerreman-Tharwa Sandwash  
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## 6782 856.1651 Nerreman-Tharwa Sandwash  
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## 6790 848.9586 Nerreman-Tharwa Sandwash  
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## 6792 744.6762 Nerreman-Tharwa Sandwash  
## 6793 798.4465 Nerreman-Tharwa Sandwash  
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## 6797 804.7749 Nerreman-Tharwa Sandwash  
## 6798 852.8123 Nerreman-Tharwa Sandwash  
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## 6804 784.5712 Nerreman-Tharwa Sandwash  
## 6805 785.7958 Nerreman-Tharwa Sandwash  
## 6806 672.7152 Nerreman-Tharwa Sandwash  
## 6807 761.4468 Nerreman-Tharwa Sandwash  
## 6808 740.4572 Nerreman-Tharwa Sandwash  
## 6809 739.8501 Kambah Pool-Tharwa Sandwash  
## 6810 732.7667 Kambah Pool-Lanyon  
## 6811 809.6835 Kambah Pool-Lanyon  
## 6812 815.5058 Kambah Pool-Lanyon  
## 6813 768.0228 Kambah Pool-Lanyon  
## 6814 873.6244 Kambah Pool-Nerreman  
## 6815 892.7102 Kambah Pool-Nerreman  
## 6816 862.0282 Kambah Pool-Nerreman  
## 6817 855.4339 Kambah Pool-Nerreman  
## 6818 753.5379 Kambah Pool-Tharwa Sandwash  
## 6819 875.5437 Kambah Pool-Tharwa Sandwash  
## 6820 774.3003 Kambah Pool-Tharwa Sandwash  
## 6821 880.5963 Kambah Pool-Nerreman  
## 6822 826.9812 Kambah Pool-Bullen Range  
## 6823 845.6956 Kambah Pool-Bullen Range  
## 6824 768.7801 Kambah Pool-Bullen Range  
## 6825 787.1744 Kambah Pool-Bullen Range  
## 6826 719.8246 Kambah Pool-Bullen Range  
## 6827 686.0707 Kambah Pool-Bullen Range  
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## 6831 793.2817 Kambah Pool-Bullen Range  
## 6832 792.3786 Kambah Pool-Bullen Range  
## 6833 752.8678 Kambah Pool-Bullen Range  
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## 6835 793.5743 Kambah Pool-Bullen Range  
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## 6843 826.8721 Kambah Pool-Bullen Range  
## 6844 840.1700 Kambah Pool-Bullen Range  
## 6845 847.9628 Kambah Pool-Bullen Range  
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## 6853 733.9969 Kambah Pool-Bullen Range  
## 6854 754.7534 Kambah Pool-Bullen Range  
## 6855 742.3111 Kambah Pool-Lanyon  
## 6856 795.3104 Kambah Pool-Lanyon  
## 6857 701.2737 Kambah Pool-Lanyon  
## 6858 901.1332 Kambah Pool-Lanyon  
## 6859 725.8810 Kambah Pool-Lanyon  
## 6860 770.1386 Kambah Pool-Lanyon  
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## 6862 726.3651 Kambah Pool-Lanyon  
## 6863 785.4966 Kambah Pool-Lanyon  
## 6864 835.9652 Kambah Pool-Lanyon  
## 6865 684.2463 Kambah Pool-Lanyon  
## 6866 748.6502 Kambah Pool-Lanyon  
## 6867 792.1831 Kambah Pool-Lanyon  
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## 6869 807.4247 Kambah Pool-Lanyon  
## 6870 756.0623 Kambah Pool-Lanyon  
## 6871 746.5402 Kambah Pool-Lanyon  
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## 6873 763.1583 Kambah Pool-Murramore  
## 6874 704.3526 Kambah Pool-Murramore  
## 6875 765.5315 Kambah Pool-Murramore  
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## 6877 752.7484 Kambah Pool-Murramore  
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## 6888 761.3700 Kambah Pool-Murramore  
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## 6893 871.7436 Kambah Pool-Nerreman  
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## 6896 798.8592 Kambah Pool-Nerreman  
## 6897 792.3220 Kambah Pool-Nerreman  
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## 6900 905.9038 Kambah Pool-Nerreman  
## 6901 667.1030 Kambah Pool-Nerreman  
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## 6905 747.3660 Kambah Pool-Nerreman  
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## 6912 780.1915 Kambah Pool-Nerreman  
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## 6915 852.7220 Kambah Pool-Nerreman  
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## 6917 765.1858 Kambah Pool-Nerreman  
## 6918 864.4352 Kambah Pool-Nerreman  
## 6919 847.7965 Kambah Pool-Nerreman  
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## 6921 739.0675 Kambah Pool-Nerreman  
## 6922 857.5282 Kambah Pool-Nerreman  
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## 6924 815.8715 Kambah Pool-Tharwa Sandwash  
## 6925 781.6586 Kambah Pool-Tharwa Sandwash  
## 6926 849.1703 Kambah Pool-Tharwa Sandwash  
## 6927 797.9525 Kambah Pool-Tharwa Sandwash  
## 6928 753.7977 Kambah Pool-Tharwa Sandwash  
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## 6931 861.6149 Kambah Pool-Tharwa Sandwash  
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## 6938 840.4659 Kambah Pool-Tharwa Sandwash  
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## 6944 732.8224 Kambah Pool-Tharwa Sandwash  
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## 6946 726.8023 Kambah Pool-Tharwa Sandwash  
## 6947 798.6750 Kambah Pool-Tharwa Sandwash  
## 6948 826.4852 Kambah Pool-Tharwa Sandwash  
## 6949 904.1934 Kambah Pool-Tharwa Sandwash  
## 6950 982.7986 Kambah Pool-Tharwa Sandwash  
## 6951 789.8762 Kambah Pool-Tharwa Sandwash  
## 6952 898.4950 Kambah Pool-Tharwa Sandwash  
## 6953 776.0953 Kambah Pool-Tharwa Sandwash  
## 6954 670.8131 Kambah Pool-Tharwa Sandwash  
## 6955 819.6872 Kambah Pool-Tharwa Sandwash  
## 6956 739.2322 Kambah Pool-Tharwa Sandwash  
## 6957 927.1575 Kambah Pool-Tharwa Sandwash  
## 6958 801.8134 Kambah Pool-Tharwa Sandwash  
## 6959 878.2904 Kambah Pool-Tharwa Sandwash  
## 6960 810.0881 Kambah Pool-Tharwa Sandwash  
## 6961 780.5027 Kambah Pool-Tharwa Sandwash  
## 6962 794.0007 Kambah Pool-Tharwa Sandwash  
## 6963 916.6149 Kambah Pool-Tharwa Sandwash  
## 6964 955.0919 Kambah Pool-Tharwa Sandwash  
## 6965 781.7547 Kambah Pool-Tharwa Sandwash  
## 6966 769.6186 Kambah Pool-Tharwa Sandwash  
## 6967 840.2803 Kambah Pool-Tharwa Sandwash  
## 6968 727.5361 Kambah Pool-Tharwa Sandwash  
## 6969 754.1782 Kambah Pool-Tharwa Sandwash  
## 6970 794.4590 Kambah Pool-Tharwa Sandwash  
## 6971 791.8626 Kambah Pool-Tharwa Sandwash  
## 6972 705.0818 Tharwa Sandwash-Kambah Pool  
## 6973 718.2824 Tharwa Sandwash-Kambah Pool  
## 6974 771.7305 Tharwa Sandwash-Kambah Pool  
## 6975 817.9119 Tharwa Sandwash-Kambah Pool  
## 6976 924.0772 Tharwa Sandwash-Kambah Pool  
## 6977 705.1711 Tharwa Sandwash-Kambah Pool  
## 6978 757.1754 Tharwa Sandwash-Kambah Pool  
## 6979 687.5389 Tharwa Sandwash-Kambah Pool  
## 6980 825.9069 Tharwa Sandwash-Kambah Pool  
## 6981 642.0359 Tharwa Sandwash-Kambah Pool  
## 6982 734.4248 Tharwa Sandwash-Kambah Pool  
## 6983 766.7682 Tharwa Sandwash-Kambah Pool  
## 6984 783.3163 Tharwa Sandwash-Kambah Pool  
## 6985 726.7091 Tharwa Sandwash-Kambah Pool  
## 6986 912.2154 Tharwa Sandwash-Kambah Pool  
## 6987 739.2667 Tharwa Sandwash-Kambah Pool  
## 6988 709.0293 Tharwa Sandwash-Kambah Pool  
## 6989 847.3010 Tharwa Sandwash-Kambah Pool  
## 6990 852.2670 Tharwa Sandwash-Kambah Pool  
## 6991 760.9887 Tharwa Sandwash-Kambah Pool  
## 6992 692.2924 Tharwa Sandwash-Lanyon  
## 6993 719.9654 Tharwa Sandwash-Lanyon  
## 6994 618.8773 Tharwa Sandwash-Lanyon  
## 6995 744.3499 Tharwa Sandwash-Lanyon  
## 6996 870.2525 Tharwa Sandwash-Kambah Pool  
## 6997 807.1255 Tharwa Sandwash-Kambah Pool  
## 6998 712.6461 Tharwa Sandwash-Kambah Pool  
## 6999 742.5680 Tharwa Sandwash-Kambah Pool  
## 7000 784.5853 Tharwa Sandwash-Kambah Pool  
## 7001 825.6594 Tharwa Sandwash-Nerreman  
## 7002 799.2682 Tharwa Sandwash-Nerreman  
## 7003 705.5779 Tharwa Sandwash-Nerreman  
## 7004 820.9663 Tharwa Sandwash-Nerreman  
## 7005 765.9863 Tharwa Sandwash-Kambah Pool  
## 7006 767.9421 Tharwa Sandwash-Kambah Pool  
## 7007 784.0171 Tharwa Sandwash-Kambah Pool  
## 7008 745.3588 Tharwa Sandwash-Kambah Pool  
## 7009 750.5886 Tharwa Sandwash-Kambah Pool  
## 7010 827.1443 Tharwa Sandwash-Kambah Pool  
## 7011 796.0317 Tharwa Sandwash-Kambah Pool  
## 7012 749.5029 Tharwa Sandwash-Kambah Pool  
## 7013 576.7586 Tharwa Sandwash-Kambah Pool  
## 7014 761.7976 Tharwa Sandwash-Kambah Pool  
## 7015 775.6364 Tharwa Sandwash-Nerreman  
## 7016 665.0248 Tharwa Sandwash-Bullen Range  
## 7017 781.8071 Tharwa Sandwash-Bullen Range  
## 7018 707.2469 Tharwa Sandwash-Bullen Range  
## 7019 630.9539 Tharwa Sandwash-Bullen Range  
## 7020 771.2238 Tharwa Sandwash-Bullen Range  
## 7021 678.3130 Tharwa Sandwash-Bullen Range  
## 7022 690.6006 Tharwa Sandwash-Bullen Range  
## 7023 743.3593 Tharwa Sandwash-Bullen Range  
## 7024 730.5887 Tharwa Sandwash-Bullen Range  
## 7025 763.2463 Tharwa Sandwash-Bullen Range  
## 7026 757.6364 Tharwa Sandwash-Bullen Range  
## 7027 769.5009 Tharwa Sandwash-Bullen Range  
## 7028 712.3930 Tharwa Sandwash-Bullen Range  
## 7029 740.4529 Tharwa Sandwash-Bullen Range  
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## 7031 651.7695 Tharwa Sandwash-Bullen Range  
## 7032 813.5571 Tharwa Sandwash-Bullen Range  
## 7033 749.0072 Tharwa Sandwash-Bullen Range  
## 7034 736.7600 Tharwa Sandwash-Bullen Range  
## 7035 692.9935 Tharwa Sandwash-Bullen Range  
## 7036 732.7936 Tharwa Sandwash-Bullen Range  
## 7037 712.2783 Tharwa Sandwash-Bullen Range  
## 7038 798.0927 Tharwa Sandwash-Bullen Range  
## 7039 703.0094 Tharwa Sandwash-Bullen Range  
## 7040 654.1051 Tharwa Sandwash-Bullen Range  
## 7041 859.2473 Tharwa Sandwash-Bullen Range  
## 7042 810.7981 Tharwa Sandwash-Bullen Range  
## 7043 741.3884 Tharwa Sandwash-Bullen Range  
## 7044 807.7004 Tharwa Sandwash-Bullen Range  
## 7045 736.8700 Tharwa Sandwash-Bullen Range  
## 7046 703.6515 Tharwa Sandwash-Bullen Range  
## 7047 777.0999 Tharwa Sandwash-Bullen Range  
## 7048 674.0982 Tharwa Sandwash-Bullen Range  
## 7049 713.8539 Tharwa Sandwash-Kambah Pool  
## 7050 701.0905 Tharwa Sandwash-Kambah Pool  
## 7051 828.4038 Tharwa Sandwash-Kambah Pool  
## 7052 716.5977 Tharwa Sandwash-Kambah Pool  
## 7053 821.0012 Tharwa Sandwash-Kambah Pool  
## 7054 678.3695 Tharwa Sandwash-Kambah Pool  
## 7055 773.5560 Tharwa Sandwash-Lanyon  
## 7056 730.3662 Tharwa Sandwash-Lanyon  
## 7057 740.4138 Tharwa Sandwash-Lanyon  
## 7058 744.5860 Tharwa Sandwash-Lanyon  
## 7059 668.1647 Tharwa Sandwash-Lanyon  
## 7060 674.8897 Tharwa Sandwash-Lanyon  
## 7061 637.0764 Tharwa Sandwash-Lanyon  
## 7062 627.7240 Tharwa Sandwash-Lanyon  
## 7063 654.2048 Tharwa Sandwash-Lanyon  
## 7064 683.2180 Tharwa Sandwash-Lanyon  
## 7065 670.0068 Tharwa Sandwash-Lanyon  
## 7066 803.6479 Tharwa Sandwash-Lanyon  
## 7067 713.4642 Tharwa Sandwash-Lanyon  
## 7068 667.8448 Tharwa Sandwash-Lanyon  
## 7069 679.2393 Tharwa Sandwash-Lanyon  
## 7070 621.1302 Tharwa Sandwash-Lanyon  
## 7071 550.7376 Tharwa Sandwash-Lanyon  
## 7072 616.9546 Tharwa Sandwash-Murramore  
## 7073 694.7910 Tharwa Sandwash-Murramore  
## 7074 682.9398 Tharwa Sandwash-Murramore  
## 7075 733.9407 Tharwa Sandwash-Murramore  
## 7076 666.7200 Tharwa Sandwash-Murramore  
## 7077 766.4131 Tharwa Sandwash-Murramore  
## 7078 800.8997 Tharwa Sandwash-Murramore  
## 7079 686.6595 Tharwa Sandwash-Murramore  
## 7080 684.7801 Tharwa Sandwash-Murramore  
## 7081 672.4210 Tharwa Sandwash-Murramore  
## 7082 679.4722 Tharwa Sandwash-Murramore  
## 7083 701.3926 Tharwa Sandwash-Murramore  
## 7084 660.0250 Tharwa Sandwash-Murramore  
## 7085 654.4170 Tharwa Sandwash-Murramore  
## 7086 651.0391 Tharwa Sandwash-Murramore  
## 7087 773.9586 Tharwa Sandwash-Murramore  
## 7088 719.1864 Tharwa Sandwash-Murramore  
## 7089 765.6439 Tharwa Sandwash-Murramore  
## 7090 764.9804 Tharwa Sandwash-Nerreman  
## 7091 642.2722 Tharwa Sandwash-Nerreman  
## 7092 661.0805 Tharwa Sandwash-Nerreman  
## 7093 778.2320 Tharwa Sandwash-Nerreman  
## 7094 749.3212 Tharwa Sandwash-Nerreman  
## 7095 890.1028 Tharwa Sandwash-Nerreman  
## 7096 833.9346 Tharwa Sandwash-Nerreman  
## 7097 700.7851 Tharwa Sandwash-Nerreman  
## 7098 748.8832 Tharwa Sandwash-Nerreman  
## 7099 877.7962 Tharwa Sandwash-Nerreman  
## 7100 888.5576 Tharwa Sandwash-Nerreman  
## 7101 771.6667 Tharwa Sandwash-Nerreman  
## 7102 830.8771 Tharwa Sandwash-Nerreman  
## 7103 921.4935 Tharwa Sandwash-Nerreman  
## 7104 716.6911 Tharwa Sandwash-Nerreman  
## 7105 719.2167 Tharwa Sandwash-Nerreman  
## 7106 712.4679 Tharwa Sandwash-Nerreman  
## 7107 662.5356 Tharwa Sandwash-Nerreman  
## 7108 898.7647 Tharwa Sandwash-Nerreman  
## 7109 745.2000 Tharwa Sandwash-Nerreman  
## 7110 781.3125 Tharwa Sandwash-Nerreman  
## 7111 682.7236 Tharwa Sandwash-Nerreman  
## 7112 763.5162 Tharwa Sandwash-Nerreman  
## 7113 701.3450 Tharwa Sandwash-Nerreman  
## 7114 735.3529 Tharwa Sandwash-Nerreman  
## 7115 604.5215 Tharwa Sandwash-Nerreman  
## 7116 685.9389 Tharwa Sandwash-Nerreman  
## 7117 776.2832 Tharwa Sandwash-Nerreman  
## 7118 697.9381 Tharwa Sandwash-Nerreman  
## 7119 803.9778 Tharwa Sandwash-Nerreman  
## 7120 750.1997 Tharwa Sandwash-Nerreman  
## 7121 699.6444 Tharwa Sandwash-Nerreman  
## 7122 728.5026 Tharwa Sandwash-Nerreman  
## 7123 595.1726 Kambah Pool-Lanyon  
## 7124 769.5614 Kambah Pool-Lanyon  
## 7125 742.1193 Kambah Pool-Lanyon  
## 7126 699.9760 Kambah Pool-Lanyon  
## 7127 705.6039 Kambah Pool-Nerreman  
## 7128 800.0159 Kambah Pool-Nerreman  
## 7129 780.2843 Kambah Pool-Nerreman  
## 7130 780.3371 Kambah Pool-Nerreman  
## 7131 738.8808 Kambah Pool-Tharwa Sandwash  
## 7132 872.0323 Kambah Pool-Tharwa Sandwash  
## 7133 712.7088 Kambah Pool-Tharwa Sandwash  
## 7134 820.4300 Kambah Pool-Nerreman  
## 7135 699.0549 Kambah Pool-Bullen Range  
## 7136 720.0122 Kambah Pool-Bullen Range  
## 7137 760.3144 Kambah Pool-Bullen Range  
## 7138 701.0338 Kambah Pool-Bullen Range  
## 7139 697.0303 Kambah Pool-Bullen Range  
## 7140 693.5898 Kambah Pool-Bullen Range  
## 7141 714.5082 Kambah Pool-Bullen Range  
## 7142 660.1848 Kambah Pool-Bullen Range  
## 7143 773.8820 Kambah Pool-Bullen Range  
## 7144 833.8435 Kambah Pool-Bullen Range  
## 7145 688.3942 Kambah Pool-Bullen Range  
## 7146 702.8675 Kambah Pool-Bullen Range  
## 7147 733.7543 Kambah Pool-Bullen Range  
## 7148 687.4872 Kambah Pool-Bullen Range  
## 7149 779.7060 Kambah Pool-Bullen Range  
## 7150 666.8271 Kambah Pool-Bullen Range  
## 7151 702.4267 Kambah Pool-Bullen Range  
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## 7154 629.4360 Kambah Pool-Bullen Range  
## 7155 682.2376 Kambah Pool-Bullen Range  
## 7156 658.6501 Kambah Pool-Bullen Range  
## 7157 739.2103 Kambah Pool-Bullen Range  
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## 7165 690.7049 Kambah Pool-Bullen Range  
## 7166 733.1427 Kambah Pool-Bullen Range  
## 7167 710.2412 Kambah Pool-Bullen Range  
## 7168 634.4405 Kambah Pool-Lanyon  
## 7169 694.1370 Kambah Pool-Lanyon  
## 7170 677.4058 Kambah Pool-Lanyon  
## 7171 674.6571 Kambah Pool-Lanyon  
## 7172 624.2224 Kambah Pool-Lanyon  
## 7173 663.1102 Kambah Pool-Lanyon  
## 7174 739.9160 Kambah Pool-Lanyon  
## 7175 650.4888 Kambah Pool-Lanyon  
## 7176 699.3761 Kambah Pool-Lanyon  
## 7177 657.4320 Kambah Pool-Lanyon  
## 7178 611.6951 Kambah Pool-Lanyon  
## 7179 676.4514 Kambah Pool-Lanyon  
## 7180 674.6835 Kambah Pool-Lanyon  
## 7181 663.7699 Kambah Pool-Lanyon  
## 7182 653.2339 Kambah Pool-Lanyon  
## 7183 684.9489 Kambah Pool-Lanyon  
## 7184 637.0105 Kambah Pool-Lanyon  
## 7185 706.3489 Kambah Pool-Murramore  
## 7186 772.6887 Kambah Pool-Murramore  
## 7187 707.8002 Kambah Pool-Murramore  
## 7188 606.6606 Kambah Pool-Murramore  
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## 7196 659.4718 Kambah Pool-Murramore  
## 7197 673.3677 Kambah Pool-Murramore  
## 7198 694.6221 Kambah Pool-Murramore  
## 7199 742.4228 Kambah Pool-Murramore  
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## 7201 749.2293 Kambah Pool-Murramore  
## 7202 710.3189 Kambah Pool-Murramore  
## 7203 770.7081 Kambah Pool-Nerreman  
## 7204 761.7620 Kambah Pool-Nerreman  
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## 7207 718.1961 Kambah Pool-Nerreman  
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## 7216 833.1185 Kambah Pool-Nerreman  
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## 7218 670.2216 Kambah Pool-Nerreman  
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## 7220 718.7119 Kambah Pool-Nerreman  
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## 7225 729.5013 Kambah Pool-Nerreman  
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## 7227 671.6239 Kambah Pool-Nerreman  
## 7228 752.1349 Kambah Pool-Nerreman  
## 7229 768.4447 Kambah Pool-Nerreman  
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## 7231 671.0899 Kambah Pool-Nerreman  
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## 7234 699.0862 Kambah Pool-Nerreman  
## 7235 692.9669 Kambah Pool-Nerreman  
## 7236 742.6049 Kambah Pool-Tharwa Sandwash  
## 7237 701.2329 Kambah Pool-Tharwa Sandwash  
## 7238 602.2380 Kambah Pool-Tharwa Sandwash  
## 7239 674.9568 Kambah Pool-Tharwa Sandwash  
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## 7244 673.6352 Kambah Pool-Tharwa Sandwash  
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## 7282 692.1975 Kambah Pool-Tharwa Sandwash  
## 7283 675.3695 Kambah Pool-Tharwa Sandwash  
## 7284 661.4547 Kambah Pool-Tharwa Sandwash  
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## 7286 769.6458 Kambah Pool-Lanyon  
## 7287 742.1088 Kambah Pool-Lanyon  
## 7288 757.6364 Kambah Pool-Lanyon  
## 7289 671.9529 Kambah Pool-Nerreman  
## 7290 664.7861 Kambah Pool-Nerreman  
## 7291 599.2989 Kambah Pool-Nerreman  
## 7292 766.4142 Kambah Pool-Nerreman  
## 7293 700.4403 Kambah Pool-Tharwa Sandwash  
## 7294 967.1711 Kambah Pool-Tharwa Sandwash  
## 7295 777.1727 Kambah Pool-Tharwa Sandwash  
## 7296 666.2265 Kambah Pool-Nerreman  
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## 7298 577.4652 Kambah Pool-Bullen Range  
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## 7300 577.9388 Kambah Pool-Bullen Range  
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## 7317 697.9347 Kambah Pool-Bullen Range  
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## 7319 758.1922 Kambah Pool-Bullen Range  
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## 7322 768.4675 Kambah Pool-Bullen Range  
## 7323 756.0129 Kambah Pool-Bullen Range  
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## 7325 702.7275 Kambah Pool-Bullen Range  
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## 7327 718.0471 Kambah Pool-Bullen Range  
## 7328 661.8623 Kambah Pool-Bullen Range  
## 7329 693.9836 Kambah Pool-Bullen Range  
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## 7331 570.8219 Kambah Pool-Lanyon  
## 7332 610.0237 Kambah Pool-Lanyon  
## 7333 742.0492 Kambah Pool-Lanyon  
## 7334 675.3948 Kambah Pool-Lanyon  
## 7335 764.7671 Kambah Pool-Lanyon  
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## 7337 749.1236 Kambah Pool-Lanyon  
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## 7339 666.7200 Kambah Pool-Lanyon  
## 7340 688.1543 Kambah Pool-Lanyon  
## 7341 679.7437 Kambah Pool-Lanyon  
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## 7343 773.0087 Kambah Pool-Lanyon  
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## 7346 742.7418 Kambah Pool-Lanyon  
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## 7348 638.4692 Kambah Pool-Murramore  
## 7349 701.1258 Kambah Pool-Murramore  
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## 7362 860.6434 Kambah Pool-Murramore  
## 7363 815.4480 Kambah Pool-Murramore  
## 7364 775.9144 Kambah Pool-Murramore  
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## 7366 811.6176 Kambah Pool-Nerreman  
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## 8264 695.1136 Kambah Pool-Nerreman  
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## 8267 585.1827 Kambah Pool-Tharwa Sandwash  
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## 9051 698.4197 Kambah Pool-Tharwa Sandwash  
## 9052 790.1550 Kambah Pool-Tharwa Sandwash  
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## 9054 793.7143 Kambah Pool-Tharwa Sandwash  
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## 9056 701.9379 Kambah Pool-Tharwa Sandwash  
## 9057 762.8781 Kambah Pool-Tharwa Sandwash  
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## 9064 649.5198 Kambah Pool-Tharwa Sandwash  
## 9065 785.9956 Kambah Pool-Tharwa Sandwash  
## 9066 749.5317 Kambah Pool-Tharwa Sandwash  
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## 9068 796.4967 Kambah Pool-Lanyon  
## 9069 785.8816 Kambah Pool-Lanyon  
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## 9072 777.5160 Kambah Pool-Nerreman  
## 9073 799.2166 Kambah Pool-Nerreman  
## 9074 805.1868 Kambah Pool-Nerreman  
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## 9076 1018.1505 Kambah Pool-Tharwa Sandwash  
## 9077 695.1269 Kambah Pool-Tharwa Sandwash  
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## 9081 767.3925 Kambah Pool-Bullen Range  
## 9082 738.1264 Kambah Pool-Bullen Range  
## 9083 720.4082 Kambah Pool-Bullen Range  
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## 9087 758.1990 Kambah Pool-Bullen Range  
## 9088 733.6376 Kambah Pool-Bullen Range  
## 9089 705.3745 Kambah Pool-Bullen Range  
## 9090 788.9057 Kambah Pool-Bullen Range  
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## 9139 739.0962 Kambah Pool-Murramore  
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## 9141 723.1803 Kambah Pool-Murramore  
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## 9187 858.3238 Kambah Pool-Tharwa Sandwash  
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## 9231 763.3957 Kambah Pool-Lanyon  
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## 9393 897.5077 Kambah Pool-Lanyon  
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## 9994 788.6695 Kambah Pool-Tharwa Sandwash  
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## 11209 726.6220 Kambah Pool-Bullen Range  
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## 11635 973.6399 Kambah Pool-Tharwa Sandwash  
## 11636 673.0396 Kambah Pool-Tharwa Sandwash  
## 11637 843.5668 Kambah Pool-Tharwa Sandwash  
## 11638 933.8368 Kambah Pool-Tharwa Sandwash  
## 11639 778.8008 Kambah Pool-Tharwa Sandwash  
## 11640 707.0201 Kambah Pool-Tharwa Sandwash  
## 11641 781.5298 Kambah Pool-Tharwa Sandwash  
## 11642 753.3742 Kambah Pool-Tharwa Sandwash  
## 11643 659.7613 Kambah Pool-Nerreman  
## 11644 735.6268 Kambah Pool-Nerreman  
## 11645 586.8781 Kambah Pool-Nerreman  
## 11646 698.2892 Kambah Pool-Nerreman  
## 11647 694.7838 Kambah Pool-Tharwa Sandwash  
## 11648 999.6056 Kambah Pool-Tharwa Sandwash  
## 11649 669.0029 Kambah Pool-Tharwa Sandwash  
## 11650 746.6105 Kambah Pool-Nerreman  
## 11651 650.6487 Kambah Pool-Bullen Range  
## 11652 663.3882 Kambah Pool-Bullen Range  
## 11653 680.3265 Kambah Pool-Bullen Range  
## 11654 757.7805 Kambah Pool-Bullen Range  
## 11655 730.2489 Kambah Pool-Bullen Range  
## 11656 611.8271 Kambah Pool-Bullen Range  
## 11657 674.1075 Kambah Pool-Bullen Range  
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## 11662 605.4065 Kambah Pool-Bullen Range  
## 11663 742.9832 Kambah Pool-Bullen Range  
## 11664 605.6686 Kambah Pool-Bullen Range  
## 11665 764.9200 Kambah Pool-Bullen Range  
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## 11679 697.3627 Kambah Pool-Bullen Range  
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## 11681 781.3125 Kambah Pool-Bullen Range  
## 11682 819.1382 Kambah Pool-Bullen Range  
## 11683 692.7466 Kambah Pool-Bullen Range  
## 11684 655.3567 Kambah Pool-Lanyon  
## 11685 674.6151 Kambah Pool-Lanyon  
## 11686 679.6843 Kambah Pool-Lanyon  
## 11687 693.8796 Kambah Pool-Lanyon  
## 11688 683.3583 Kambah Pool-Lanyon  
## 11689 597.9004 Kambah Pool-Lanyon  
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## 11703 666.1610 Kambah Pool-Murramore  
## 11704 615.3363 Kambah Pool-Murramore  
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## 11712 693.1812 Kambah Pool-Murramore  
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## 11717 721.4459 Kambah Pool-Murramore  
## 11718 760.9791 Kambah Pool-Murramore  
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## 11722 801.3462 Kambah Pool-Nerreman  
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## 11778 795.4360 Kambah Pool-Tharwa Sandwash  
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## 11780 675.2910 Kambah Pool-Tharwa Sandwash  
## 11781 673.0768 Kambah Pool-Tharwa Sandwash  
## 11782 811.5506 Kambah Pool-Tharwa Sandwash  
## 11783 740.2977 Kambah Pool-Tharwa Sandwash  
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## 11800 694.0618 Kambah Pool-Tharwa Sandwash  
## 11801 672.0728 Nerreman-Tharwa Sandwash  
## 11802 984.9726 Nerreman-Tharwa Sandwash  
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## 11804 799.6845 Nerreman-Kambah Pool  
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## 11807 864.3598 Nerreman-Kambah Pool  
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## 11809 662.8314 Nerreman-Kambah Pool  
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## 11811 814.4068 Nerreman-Kambah Pool  
## 11812 815.5058 Nerreman-Kambah Pool  
## 11813 651.6051 Nerreman-Tharwa Sandwash  
## 11814 670.4992 Nerreman-Bullen Range  
## 11815 720.3111 Nerreman-Bullen Range  
## 11816 772.1736 Nerreman-Bullen Range  
## 11817 672.6260 Nerreman-Bullen Range  
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## 11830 631.1616 Nerreman-Bullen Range  
## 11831 622.4815 Nerreman-Bullen Range  
## 11832 594.8848 Nerreman-Bullen Range  
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## 11844 703.8598 Nerreman-Bullen Range  
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## 11846 735.6201 Nerreman-Bullen Range  
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## 11988 854.3620 Nerreman-Kambah Pool  
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## 12065 953.2661 Nerreman-Tharwa Sandwash  
## 12066 758.8628 Nerreman-Tharwa Sandwash  
## 12067 826.0857 Nerreman-Tharwa Sandwash  
## 12068 828.7796 Nerreman-Tharwa Sandwash  
## 12069 794.4071 Nerreman-Tharwa Sandwash  
## 12070 708.3749 Nerreman-Tharwa Sandwash  
## 12071 755.3384 Nerreman-Tharwa Sandwash  
## 12072 703.0265 Nerreman-Tharwa Sandwash  
## 12073 646.3427 Nerreman-Tharwa Sandwash  
## 12074 871.2582 Nerreman-Tharwa Sandwash  
## 12075 783.8248 Nerreman-Kambah Pool  
## 12076 741.4046 Nerreman-Kambah Pool  
## 12077 709.8754 Nerreman-Kambah Pool  
## 12078 827.8808 Nerreman-Kambah Pool  
## 12079 733.7690 Nerreman-Kambah Pool  
## 12080 776.1659 Nerreman-Kambah Pool  
## 12081 786.3199 Nerreman-Kambah Pool  
## 12082 790.5267 Nerreman-Kambah Pool  
## 12083 669.3614 Nerreman-Kambah Pool  
## 12084 760.1341 Nerreman-Kambah Pool  
## 12085 690.1070 Nerreman-Tharwa Sandwash  
## 12086 583.9971 Nerreman-Bullen Range  
## 12087 627.3876 Nerreman-Bullen Range  
## 12088 512.4607 Nerreman-Bullen Range  
## 12089 689.8275 Nerreman-Bullen Range  
## 12090 627.7810 Nerreman-Bullen Range  
## 12091 469.3618 Nerreman-Bullen Range  
## 12092 626.3675 Nerreman-Bullen Range  
## 12093 673.3540 Nerreman-Bullen Range  
## 12094 671.7188 Nerreman-Bullen Range  
## 12095 734.1822 Nerreman-Bullen Range  
## 12096 673.0459 Nerreman-Bullen Range  
## 12097 643.8019 Nerreman-Bullen Range  
## 12098 704.2360 Nerreman-Bullen Range  
## 12099 630.2035 Nerreman-Bullen Range  
## 12100 729.2832 Nerreman-Bullen Range  
## 12101 662.5474 Nerreman-Bullen Range  
## 12102 595.6216 Nerreman-Bullen Range  
## 12103 574.4374 Nerreman-Bullen Range  
## 12104 682.4878 Nerreman-Bullen Range  
## 12105 591.7140 Nerreman-Bullen Range  
## 12106 653.0998 Nerreman-Bullen Range  
## 12107 688.9646 Nerreman-Bullen Range  
## 12108 595.6589 Nerreman-Bullen Range  
## 12109 680.6940 Nerreman-Bullen Range  
## 12110 738.5692 Nerreman-Bullen Range  
## 12111 742.0031 Nerreman-Bullen Range  
## 12112 685.0335 Nerreman-Bullen Range  
## 12113 577.1936 Nerreman-Bullen Range  
## 12114 694.7924 Nerreman-Bullen Range  
## 12115 552.4936 Nerreman-Bullen Range  
## 12116 743.6255 Nerreman-Bullen Range  
## 12117 736.6863 Nerreman-Bullen Range  
## 12118 728.8583 Nerreman-Bullen Range  
## 12119 678.5367 Nerreman-Kambah Pool  
## 12120 684.3046 Nerreman-Kambah Pool  
## 12121 802.7681 Nerreman-Kambah Pool  
## 12122 752.8071 Nerreman-Kambah Pool  
## 12123 614.8165 Nerreman-Kambah Pool  
## 12124 647.1701 Nerreman-Kambah Pool  
## 12125 673.2586 Nerreman-Lanyon  
## 12126 684.2717 Nerreman-Lanyon  
## 12127 701.8105 Nerreman-Lanyon  
## 12128 687.8006 Nerreman-Lanyon  
## 12129 707.3257 Nerreman-Lanyon  
## 12130 760.0252 Nerreman-Lanyon  
## 12131 644.6656 Nerreman-Lanyon  
## 12132 715.7061 Nerreman-Lanyon  
## 12133 721.8909 Nerreman-Lanyon  
## 12134 625.9442 Nerreman-Lanyon  
## 12135 682.8985 Nerreman-Lanyon  
## 12136 747.5734 Nerreman-Lanyon  
## 12137 663.6388 Nerreman-Lanyon  
## 12138 756.0278 Nerreman-Lanyon  
## 12139 688.6834 Nerreman-Lanyon  
## 12140 751.4262 Nerreman-Lanyon  
## 12141 713.3156 Nerreman-Lanyon  
## 12142 663.7840 Nerreman-Murramore  
## 12143 711.7547 Nerreman-Murramore  
## 12144 778.2340 Nerreman-Murramore  
## 12145 742.3127 Nerreman-Murramore  
## 12146 648.9069 Nerreman-Murramore  
## 12147 649.1132 Nerreman-Murramore  
## 12148 676.6923 Nerreman-Murramore  
## 12149 639.5396 Nerreman-Murramore  
## 12150 729.6626 Nerreman-Murramore  
## 12151 711.6994 Nerreman-Murramore  
## 12152 747.8838 Nerreman-Murramore  
## 12153 692.6880 Nerreman-Murramore  
## 12154 708.7271 Nerreman-Murramore  
## 12155 715.9163 Nerreman-Murramore  
## 12156 749.7933 Nerreman-Murramore  
## 12157 733.3127 Nerreman-Murramore  
## 12158 852.9467 Nerreman-Murramore  
## 12159 765.9926 Nerreman-Murramore  
## 12160 706.0340 Nerreman-Tharwa Sandwash  
## 12161 740.0972 Nerreman-Tharwa Sandwash  
## 12162 717.3811 Nerreman-Tharwa Sandwash  
## 12163 654.8359 Nerreman-Tharwa Sandwash  
## 12164 738.3222 Nerreman-Tharwa Sandwash  
## 12165 764.9642 Nerreman-Tharwa Sandwash  
## 12166 759.0351 Nerreman-Tharwa Sandwash  
## 12167 746.0944 Nerreman-Tharwa Sandwash  
## 12168 776.9247 Nerreman-Tharwa Sandwash  
## 12169 716.6911 Nerreman-Tharwa Sandwash  
## 12170 644.9751 Nerreman-Tharwa Sandwash  
## 12171 773.6336 Nerreman-Tharwa Sandwash  
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## 12173 690.0078 Nerreman-Tharwa Sandwash  
## 12174 823.8098 Nerreman-Tharwa Sandwash  
## 12175 782.6207 Nerreman-Tharwa Sandwash  
## 12176 716.8373 Nerreman-Tharwa Sandwash  
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## 12185 728.3439 Nerreman-Tharwa Sandwash  
## 12186 681.2931 Nerreman-Tharwa Sandwash  
## 12187 939.3718 Nerreman-Tharwa Sandwash  
## 12188 665.1850 Nerreman-Tharwa Sandwash  
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## 12194 839.2639 Nerreman-Tharwa Sandwash  
## 12195 720.7945 Nerreman-Tharwa Sandwash  
## 12196 775.0719 Nerreman-Tharwa Sandwash  
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## 12198 636.3475 Nerreman-Tharwa Sandwash  
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## 12201 927.2653 Nerreman-Tharwa Sandwash  
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## 12206 693.9719 Nerreman-Tharwa Sandwash  
## 12207 710.0788 Nerreman-Tharwa Sandwash  
## 12208 750.7799 Nerreman-Tharwa Sandwash  
## 12209 720.6212 Nerreman-Tharwa Sandwash  
## 12210 951.9732 Nerreman-Tharwa Sandwash  
## 12211 806.6190 Nerreman-Kambah Pool  
## 12212 810.8575 Nerreman-Kambah Pool  
## 12213 827.0864 Nerreman-Kambah Pool  
## 12214 828.2236 Nerreman-Kambah Pool  
## 12215 789.3291 Nerreman-Kambah Pool  
## 12216 833.2366 Nerreman-Kambah Pool  
## 12217 670.9576 Nerreman-Kambah Pool  
## 12218 816.3285 Nerreman-Kambah Pool  
## 12219 700.7388 Nerreman-Kambah Pool  
## 12220 817.2658 Nerreman-Kambah Pool  
## 12221 698.9005 Nerreman-Tharwa Sandwash  
## 12222 585.9961 Nerreman-Bullen Range  
## 12223 643.5297 Nerreman-Bullen Range  
## 12224 773.0432 Nerreman-Bullen Range  
## 12225 674.2933 Nerreman-Bullen Range  
## 12226 694.8488 Nerreman-Bullen Range  
## 12227 644.9013 Nerreman-Bullen Range  
## 12228 702.9789 Nerreman-Bullen Range  
## 12229 687.0029 Nerreman-Bullen Range  
## 12230 769.4332 Nerreman-Bullen Range  
## 12231 679.0667 Nerreman-Bullen Range  
## 12232 703.3945 Nerreman-Bullen Range  
## 12233 694.2394 Nerreman-Bullen Range  
## 12234 677.0426 Nerreman-Bullen Range  
## 12235 676.1983 Nerreman-Bullen Range  
## 12236 799.9663 Nerreman-Bullen Range  
## 12237 691.0636 Nerreman-Bullen Range  
## 12238 570.8843 Nerreman-Bullen Range  
## 12239 588.9190 Nerreman-Bullen Range  
## 12240 664.9701 Nerreman-Bullen Range  
## 12241 587.4556 Nerreman-Bullen Range  
## 12242 628.8752 Nerreman-Bullen Range  
## 12243 648.3201 Nerreman-Bullen Range  
## 12244 675.9181 Nerreman-Bullen Range  
## 12245 658.1893 Nerreman-Bullen Range  
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## 12247 623.0114 Nerreman-Bullen Range  
## 12248 729.6663 Nerreman-Bullen Range  
## 12249 699.0717 Nerreman-Bullen Range  
## 12250 674.8719 Nerreman-Bullen Range  
## 12251 658.0366 Nerreman-Bullen Range  
## 12252 658.6367 Nerreman-Bullen Range  
## 12253 792.1986 Nerreman-Bullen Range  
## 12254 720.4368 Nerreman-Bullen Range  
## 12255 764.1623 Nerreman-Kambah Pool  
## 12256 758.5583 Nerreman-Kambah Pool  
## 12257 781.6388 Nerreman-Kambah Pool  
## 12258 775.2558 Nerreman-Kambah Pool  
## 12259 573.7908 Nerreman-Kambah Pool  
## 12260 738.8122 Nerreman-Kambah Pool  
## 12261 685.5296 Nerreman-Lanyon  
## 12262 592.6268 Nerreman-Lanyon  
## 12263 754.5185 Nerreman-Lanyon  
## 12264 865.3350 Nerreman-Lanyon  
## 12265 753.1842 Nerreman-Lanyon  
## 12266 722.5291 Nerreman-Lanyon  
## 12267 628.7515 Nerreman-Lanyon  
## 12268 836.8189 Nerreman-Lanyon  
## 12269 682.8065 Nerreman-Lanyon  
## 12270 695.8807 Nerreman-Lanyon  
## 12271 655.2166 Nerreman-Lanyon  
## 12272 671.2796 Nerreman-Lanyon  
## 12273 664.5337 Nerreman-Lanyon  
## 12274 677.6954 Nerreman-Lanyon  
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## 12276 710.9441 Nerreman-Lanyon  
## 12277 719.4005 Nerreman-Lanyon  
## 12278 766.7280 Nerreman-Murramore  
## 12279 798.9727 Nerreman-Murramore  
## 12280 713.9266 Nerreman-Murramore  
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## 12282 686.7087 Nerreman-Murramore  
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## 12288 803.2043 Nerreman-Murramore  
## 12289 655.4658 Nerreman-Murramore  
## 12290 653.5906 Nerreman-Murramore  
## 12291 672.9602 Nerreman-Murramore  
## 12292 759.2381 Nerreman-Murramore  
## 12293 712.5354 Nerreman-Murramore  
## 12294 802.8237 Nerreman-Murramore  
## 12295 724.9746 Nerreman-Murramore  
## 12296 845.3212 Nerreman-Tharwa Sandwash  
## 12297 784.4868 Nerreman-Tharwa Sandwash  
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## 12299 739.7221 Nerreman-Tharwa Sandwash  
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## 12301 999.1374 Nerreman-Tharwa Sandwash  
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## 12307 872.7695 Nerreman-Tharwa Sandwash  
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## 12309 739.2192 Nerreman-Tharwa Sandwash  
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## 12311 797.2108 Nerreman-Tharwa Sandwash  
## 12312 721.3732 Nerreman-Tharwa Sandwash  
## 12313 798.4248 Nerreman-Tharwa Sandwash  
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## 12353 650.6937 Tharwa Sandwash-Kambah Pool  
## 12354 774.0557 Tharwa Sandwash-Kambah Pool  
## 12355 776.4887 Tharwa Sandwash-Nerreman  
## 12356 733.8113 Tharwa Sandwash-Bullen Range  
## 12357 839.6527 Tharwa Sandwash-Bullen Range  
## 12358 769.4766 Tharwa Sandwash-Bullen Range  
## 12359 733.9602 Tharwa Sandwash-Bullen Range  
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## 12394 722.1268 Tharwa Sandwash-Kambah Pool  
## 12395 692.6230 Tharwa Sandwash-Lanyon  
## 12396 579.9433 Tharwa Sandwash-Lanyon  
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## 12411 710.6512 Tharwa Sandwash-Lanyon  
## 12412 758.6680 Tharwa Sandwash-Murramore  
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## 12469 940.1261 Tharwa Sandwash-Kambah Pool  
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## 12472 955.9060 Tharwa Sandwash-Kambah Pool  
## 12473 995.7845 Tharwa Sandwash-Nerreman  
## 12474 953.2938 Tharwa Sandwash-Bullen Range  
## 12475 1010.7561 Tharwa Sandwash-Bullen Range  
## 12476 895.4803 Tharwa Sandwash-Bullen Range  
## 12477 907.7312 Tharwa Sandwash-Bullen Range  
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## 12491 910.1516 Tharwa Sandwash-Bullen Range  
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## 12495 927.8086 Tharwa Sandwash-Bullen Range  
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## 12497 891.6246 Tharwa Sandwash-Bullen Range  
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## 12501 928.6555 Tharwa Sandwash-Bullen Range  
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## 12503 945.2416 Tharwa Sandwash-Bullen Range  
## 12504 849.6017 Tharwa Sandwash-Bullen Range  
## 12505 935.1937 Tharwa Sandwash-Bullen Range  
## 12506 816.2586 Tharwa Sandwash-Bullen Range  
## 12507 882.9244 Tharwa Sandwash-Kambah Pool  
## 12508 913.7080 Tharwa Sandwash-Kambah Pool  
## 12509 1005.3520 Tharwa Sandwash-Kambah Pool  
## 12510 919.4203 Tharwa Sandwash-Kambah Pool  
## 12511 994.1616 Tharwa Sandwash-Kambah Pool  
## 12512 923.3500 Tharwa Sandwash-Kambah Pool  
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## 12514 862.8438 Tharwa Sandwash-Lanyon  
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## 12516 826.5892 Tharwa Sandwash-Lanyon  
## 12517 925.6205 Tharwa Sandwash-Lanyon  
## 12518 791.8078 Tharwa Sandwash-Lanyon  
## 12519 845.4783 Tharwa Sandwash-Lanyon  
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## 12521 906.0394 Tharwa Sandwash-Lanyon  
## 12522 838.1442 Tharwa Sandwash-Lanyon  
## 12523 768.9107 Tharwa Sandwash-Lanyon  
## 12524 767.0348 Tharwa Sandwash-Lanyon  
## 12525 811.9522 Tharwa Sandwash-Lanyon  
## 12526 829.9690 Tharwa Sandwash-Lanyon  
## 12527 801.5034 Tharwa Sandwash-Lanyon  
## 12528 762.4117 Tharwa Sandwash-Lanyon  
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## 12531 911.8875 Tharwa Sandwash-Murramore  
## 12532 853.9583 Tharwa Sandwash-Murramore  
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## 12615 683.7820 Kambah Pool-Bullen Range  
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## 12617 733.6376 Kambah Pool-Lanyon  
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## 12625 764.2196 Kambah Pool-Lanyon  
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## 12627 736.6893 Kambah Pool-Lanyon  
## 12628 729.5053 Kambah Pool-Lanyon  
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## 12632 717.5756 Kambah Pool-Lanyon  
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## 12634 775.1017 Kambah Pool-Murramore  
## 12635 789.1951 Kambah Pool-Murramore  
## 12636 693.8339 Kambah Pool-Murramore  
## 12637 713.7348 Kambah Pool-Murramore  
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## 12919 758.9140 Kambah Pool-Bullen Range  
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## 12934 739.1710 Kambah Pool-Lanyon  
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## 13341 619.4702 Kambah Pool-Tharwa Sandwash  
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## 13757 730.0066 Kambah Pool-Tharwa Sandwash  
## 13758 700.6016 Kambah Pool-Tharwa Sandwash  
## 13759 791.4972 Kambah Pool-Tharwa Sandwash  
## 13760 856.8197 Kambah Pool-Tharwa Sandwash  
## 13761 824.8669 Kambah Pool-Tharwa Sandwash  
## 13762 731.1275 Kambah Pool-Tharwa Sandwash  
## 13763 750.6962 Kambah Pool-Tharwa Sandwash  
## 13764 850.4369 Kambah Pool-Tharwa Sandwash  
## 13765 837.7331 Kambah Pool-Tharwa Sandwash  
## 13766 776.0849 Kambah Pool-Tharwa Sandwash  
## 13767 797.5868 Kambah Pool-Tharwa Sandwash  
## 13768 782.8741 Kambah Pool-Tharwa Sandwash  
## 13769 636.4992 Kambah Pool-Tharwa Sandwash  
## 13770 715.6281 Kambah Pool-Tharwa Sandwash  
## 13771 817.4639 Kambah Pool-Tharwa Sandwash  
## 13772 742.9199 Kambah Pool-Tharwa Sandwash  
## 13773 699.7430 Kambah Pool-Tharwa Sandwash  
## 13774 696.2319 Kambah Pool-Tharwa Sandwash  
## 13775 968.4403 Kambah Pool-Tharwa Sandwash  
## 13776 838.4677 Kambah Pool-Tharwa Sandwash  
## 13777 758.9735 Kambah Pool-Tharwa Sandwash  
## 13778 805.4106 Kambah Pool-Tharwa Sandwash  
## 13779 705.8852 Kambah Pool-Tharwa Sandwash  
## 13780 770.5126 Kambah Pool-Tharwa Sandwash  
## 13781 699.7270 Kambah Pool-Tharwa Sandwash  
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## 13783 802.4714 Kambah Pool-Tharwa Sandwash  
## 13784 822.2539 Kambah Pool-Tharwa Sandwash  
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## 13786 691.4481 Kambah Pool-Tharwa Sandwash  
## 13787 704.5152 Kambah Pool-Tharwa Sandwash  
## 13788 915.8550 Kambah Pool-Tharwa Sandwash  
## 13789 975.3354 Kambah Pool-Tharwa Sandwash  
## 13790 704.5463 Kambah Pool-Tharwa Sandwash  
## 13791 770.1842 Kambah Pool-Tharwa Sandwash  
## 13792 731.7096 Kambah Pool-Tharwa Sandwash  
## 13793 628.1979 Kambah Pool-Tharwa Sandwash  
## 13794 724.6957 Kambah Pool-Tharwa Sandwash  
## 13795 806.2334 Kambah Pool-Tharwa Sandwash  
## 13796 760.2610 Kambah Pool-Tharwa Sandwash  
## 13797 603.3665 Kambah Pool-Tharwa Sandwash  
## 13798 704.9651 Kambah Pool-Nerreman  
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## 13826 552.2530 Kambah Pool-Bullen Range  
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## 13828 733.9471 Kambah Pool-Bullen Range  
## 13829 715.9316 Kambah Pool-Bullen Range  
## 13830 691.2207 Kambah Pool-Bullen Range  
## 13831 656.9786 Kambah Pool-Bullen Range  
## 13832 605.2487 Kambah Pool-Lanyon  
## 13833 612.4070 Kambah Pool-Lanyon  
## 13834 673.2159 Kambah Pool-Lanyon  
## 13835 805.4263 Kambah Pool-Lanyon  
## 13836 664.0637 Kambah Pool-Lanyon  
## 13837 650.5291 Kambah Pool-Lanyon  
## 13838 618.2818 Kambah Pool-Lanyon  
## 13839 725.4681 Kambah Pool-Lanyon  
## 13840 633.6639 Kambah Pool-Lanyon  
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## 13843 673.9470 Kambah Pool-Lanyon  
## 13844 640.9755 Kambah Pool-Lanyon  
## 13845 673.8443 Kambah Pool-Lanyon  
## 13846 685.5883 Kambah Pool-Lanyon  
## 13847 661.5716 Kambah Pool-Lanyon  
## 13848 638.9230 Kambah Pool-Lanyon  
## 13849 682.7998 Kambah Pool-Murramore  
## 13850 689.2782 Kambah Pool-Murramore  
## 13851 688.6144 Kambah Pool-Murramore  
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## 13854 653.6471 Kambah Pool-Murramore  
## 13855 653.4539 Kambah Pool-Murramore  
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## 13857 675.4038 Kambah Pool-Murramore  
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## 13864 783.2474 Kambah Pool-Murramore  
## 13865 792.2290 Kambah Pool-Murramore  
## 13866 699.5132 Kambah Pool-Murramore  
## 13867 758.2770 Kambah Pool-Nerreman  
## 13868 704.8657 Kambah Pool-Nerreman  
## 13869 659.7315 Kambah Pool-Nerreman  
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## 13882 587.7552 Kambah Pool-Nerreman  
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## 13904 713.3316 Kambah Pool-Tharwa Sandwash  
## 13905 680.3851 Kambah Pool-Tharwa Sandwash  
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## 13919 713.5959 Kambah Pool-Tharwa Sandwash  
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## 13949 745.5429 Kambah Pool-Tharwa Sandwash  
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## 13985 682.7988 Kambah Pool-Lanyon  
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## 14004 730.8458 Kambah Pool-Murramore  
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## 14136 640.5106 Tharwa Sandwash-Kambah Pool  
## 14137 735.7740 Tharwa Sandwash-Kambah Pool  
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## 14140 761.0547 Tharwa Sandwash-Kambah Pool  
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## 14175 715.3398 Tharwa Sandwash-Murramore  
## 14176 635.6805 Tharwa Sandwash-Nerreman  
## 14177 618.3290 Tharwa Sandwash-Nerreman  
## 14178 588.2824 Tharwa Sandwash-Nerreman  
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## 14184 686.5420 Tharwa Sandwash-Nerreman  
## 14185 765.4256 Tharwa Sandwash-Nerreman  
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## 14188 703.5015 Tharwa Sandwash-Nerreman  
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## 14194 779.6188 Tharwa Sandwash-Nerreman  
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## 14205 683.0370 Tharwa Sandwash-Nerreman  
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## 14207 664.5549 Tharwa Sandwash-Nerreman  
## 14208 803.3128 Tharwa Sandwash-Nerreman  
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## 14210 808.1102 Nerreman-Bullen Range  
## 14211 797.2164 Nerreman-Bullen Range  
## 14212 742.5260 Nerreman-Bullen Range  
## 14213 740.3842 Nerreman-Bullen Range  
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## 14217 741.2050 Nerreman-Bullen Range  
## 14218 692.2999 Nerreman-Bullen Range  
## 14219 687.0323 Nerreman-Bullen Range  
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## 14225 580.3780 Nerreman-Bullen Range  
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## 14243 763.1315 Nerreman-Kambah Pool  
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## 14245 800.4880 Nerreman-Kambah Pool  
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## 14247 908.0353 Nerreman-Kambah Pool  
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## 23809 472.7574 Nerreman-Tharwa Sandwash  
## 23810 597.9184 Nerreman-Tharwa Sandwash  
## 23811 635.0004 Nerreman-Tharwa Sandwash  
## 23812 563.1279 Nerreman-Tharwa Sandwash  
## 23813 692.9935 Nerreman-Tharwa Sandwash  
## 23814 644.6377 Nerreman-Tharwa Sandwash  
## 23815 728.3904 Nerreman-Tharwa Sandwash  
## 23816 665.1114 Nerreman-Tharwa Sandwash  
## 23817 619.3027 Nerreman-Tharwa Sandwash  
## 23818 739.0610 Nerreman-Tharwa Sandwash  
## 23819 486.2371 Nerreman-Tharwa Sandwash  
## 23820 598.4867 Nerreman-Tharwa Sandwash  
## 23821 496.0369 Nerreman-Tharwa Sandwash  
## 23822 717.1497 Nerreman-Tharwa Sandwash  
## 23823 637.6498 Nerreman-Tharwa Sandwash  
## 23824 670.7158 Nerreman-Tharwa Sandwash  
## 23825 559.7571 Nerreman-Tharwa Sandwash  
## 23826 603.0000 Nerreman-Tharwa Sandwash  
## 23827 597.7371 Nerreman-Tharwa Sandwash  
## 23828 680.2127 Nerreman-Tharwa Sandwash  
## 23829 710.9713 Nerreman-Tharwa Sandwash  
## 23830 559.3710 Nerreman-Tharwa Sandwash  
## 23831 713.2831 Nerreman-Tharwa Sandwash  
## 23832 688.7365 Nerreman-Tharwa Sandwash  
## 23833 594.4691 Nerreman-Tharwa Sandwash  
## 23834 598.9199 Nerreman-Tharwa Sandwash  
## 23835 557.7302 Nerreman-Tharwa Sandwash  
## 23836 507.7540 Nerreman-Tharwa Sandwash  
## 23837 879.8538 Nerreman-Tharwa Sandwash  
## 23838 822.1607 Nerreman-Tharwa Sandwash  
## 23839 839.0566 Nerreman-Tharwa Sandwash  
## 23840 713.9555 Nerreman-Tharwa Sandwash  
## 23841 687.0375 Nerreman-Tharwa Sandwash  
## 23842 759.6175 Nerreman-Tharwa Sandwash  
## 23843 684.1464 Nerreman-Tharwa Sandwash  
## 23844 943.1856 Nerreman-Tharwa Sandwash  
## 23845 711.1839 Nerreman-Tharwa Sandwash  
## 23846 758.3370 Nerreman-Tharwa Sandwash  
## 23847 770.9868 Nerreman-Tharwa Sandwash  
## 23848 778.6739 Nerreman-Tharwa Sandwash  
## 23849 788.7835 Nerreman-Tharwa Sandwash  
## 23850 826.7090 Nerreman-Tharwa Sandwash  
## 23851 814.3473 Nerreman-Tharwa Sandwash  
## 23852 721.1627 Nerreman-Tharwa Sandwash  
## 23853 726.6142 Nerreman-Tharwa Sandwash  
## 23854 741.7330 Nerreman-Tharwa Sandwash  
## 23855 679.4022 Nerreman-Tharwa Sandwash  
## 23856 715.0882 Nerreman-Tharwa Sandwash  
## 23857 688.7603 Nerreman-Tharwa Sandwash  
## 23858 685.9482 Nerreman-Tharwa Sandwash  
## 23859 731.0526 Nerreman-Tharwa Sandwash  
## 23860 807.4991 Nerreman-Tharwa Sandwash  
## 23861 735.1296 Nerreman-Tharwa Sandwash  
## 23862 785.3004 Nerreman-Tharwa Sandwash  
## 23863 891.4976 Nerreman-Tharwa Sandwash  
## 23864 866.1445 Nerreman-Tharwa Sandwash  
## 23865 676.7459 Nerreman-Tharwa Sandwash  
## 23866 715.3516 Nerreman-Tharwa Sandwash  
## 23867 835.6959 Nerreman-Tharwa Sandwash  
## 23868 598.8174 Nerreman-Tharwa Sandwash  
## 23869 718.8113 Nerreman-Tharwa Sandwash  
## 23870 659.7994 Nerreman-Tharwa Sandwash  
## 23871 778.0269 Nerreman-Tharwa Sandwash  
## 23872 735.2227 Nerreman-Tharwa Sandwash  
## 23873 784.4644 Nerreman-Tharwa Sandwash  
## 23874 693.1128 Nerreman-Tharwa Sandwash  
## 23875 778.6511 Nerreman-Tharwa Sandwash  
## 23876 679.1213 Nerreman-Tharwa Sandwash  
## 23877 868.2783 Nerreman-Tharwa Sandwash  
## 23878 908.2402 Nerreman-Tharwa Sandwash  
## 23879 702.8477 Nerreman-Tharwa Sandwash  
## 23880 792.8721 Nerreman-Tharwa Sandwash  
## 23881 761.3778 Nerreman-Tharwa Sandwash  
## 23882 633.9324 Nerreman-Tharwa Sandwash  
## 23883 714.6890 Nerreman-Tharwa Sandwash  
## 23884 670.1316 Nerreman-Tharwa Sandwash  
## 23885 662.6321 Nerreman-Tharwa Sandwash  
##   
## $violin



##   
## $boxplot



##   
## $jitter



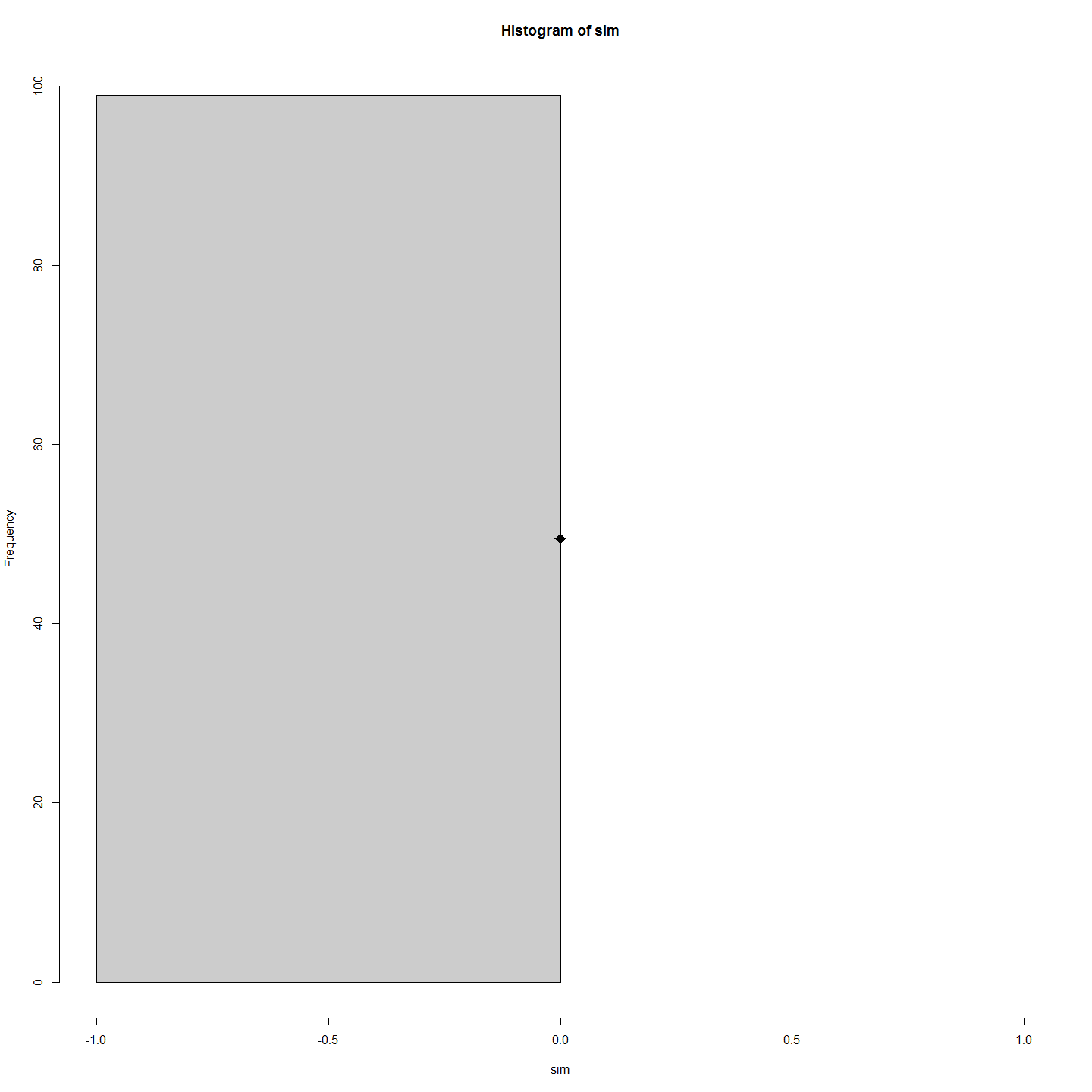
fstat(gi)

## pop Ind  
## Total 0.01827464 -0.1371021  
## pop 0.00000000 -0.1582691

#Is the structure between populations significant?  
popStrSig<- gstat.randtest(gi, nsim = 99)  
popStrSig

## Monte-Carlo test  
## Call: gstat.randtest(x = gi, nsim = 99)  
##   
## Observation: 0   
##   
## Based on 99 replicates  
## Simulated p-value: 1   
## Alternative hypothesis: greater   
##   
## Std.Obs Expectation Variance   
## NaN 0 0

plot(popStrSig)



giHs <- genind2hierfstat(gi)  
head(giHs)

## pop X6661549.60.C.T X6650588.15.C.T X6661794.21.A.G X6664081.63.G.A X6653885.30.A.G X6661177.64.C.T X6661457.52.C.T X6653401.39.G.A X6657572.30.T.A X6661566.34.A.G X6663962.65.C.T  
## 1 Kambah Pool NA NA 12 12 11 12 NA 11 11 12 NA  
## 2 Kambah Pool NA NA 11 12 11 12 NA 11 12 12 NA  
## 3 Kambah Pool NA NA 12 12 11 12 NA 11 11 12 NA  
## 4 Kambah Pool NA NA 11 12 11 12 NA NA 11 12 NA  
## 5 Kambah Pool NA NA 12 12 11 NA NA 11 11 12 NA  
## 6 Kambah Pool NA NA 12 12 NA 12 NA 11 12 12 12  
## X6665217.18.A.G X6661207.60.A.C X6661398.51.C.T X6651899.27.T.A X6653020.28.A.C X6653704.64.T.G X6650504.59.T.C X6652003.38.G.C X6661105.11.G.T X6661432.29.C.A X6652162.44.A.T X6653798.57.C.T  
## 1 12 11 NA 12 12 11 11 11 12 12 22 12  
## 2 12 12 NA NA 22 11 11 11 22 11 21 12  
## 3 NA 11 21 11 12 12 11 11 12 NA 21 12  
## 4 NA 12 NA 11 22 11 11 11 12 NA 11 12  
## 5 22 11 NA 12 22 12 11 11 22 11 21 NA  
## 6 12 12 NA 11 12 11 11 11 22 12 21 NA  
## X6653191.40.A.G X6664876.31.G.A X6661163.31.T.C X6652675.16.G.T X6652288.45.C.T X6650933.66.G.A X6653948.58.T.C X6663083.49.G.A X6662726.45.A.G X6664756.9.C.T X6661688.18.A.G X6666128.43.C.G  
## 1 22 12 11 12 NA 12 11 22 11 NA 11 11  
## 2 21 12 12 NA NA NA 11 21 NA NA 11 12  
## 3 22 12 11 NA NA 12 11 22 NA 11 NA 12  
## 4 21 12 11 NA NA NA 11 11 NA NA NA 12  
## 5 21 NA NA 22 NA NA 11 21 NA NA 11 12  
## 6 21 12 NA NA 11 NA NA 11 NA NA 12 11  
## X6652433.13.A.G X6652352.5.T.C X6664270.14.C.A X6651416.17.C.T X6664751.11.T.A X6657734.47.A.G X6663081.18.A.G X6651148.64.A.T X6656916.22.T.C X6653573.49.T.C X6661198.22.T.G X6665027.17.A.T  
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## 2 11 12 22 22 22 12 12 22 12 12 22 22  
## 3 11 12 22 22 22 12 NA 11 11 12 22 12  
## 4 11 12 22 22 22 11 NA 11 11 12 22 11  
## 5 11 12 22 NA 22 11 11 21 11 12 22 22  
## 6 11 NA 22 NA 22 11 12 22 11 12 22 22  
## X6664900.6.C.T X6650826.66.G.A X6653766.40.A.C X6665588.8.C.T X6652573.8.C.A X6652700.14.C.G X6664334.9.A.G X6651772.17.A.T X6651828.36.G.A X6650476.13.A.C X6651474.15.T.C X6652836.30.C.T  
## 1 11 11 11 11 12 11 12 12 22 11 12 11  
## 2 12 NA 11 11 12 12 12 12 NA 11 12 11  
## 3 11 12 11 12 12 12 12 11 22 12 11 22  
## 4 22 NA 11 12 12 12 12 11 NA 11 11 11  
## 5 12 NA 12 11 12 12 12 11 NA 11 11 11  
## 6 22 NA 12 11 12 12 11 11 NA 11 NA NA  
## X6653346.25.C.A X6658563.22.C.T X6661870.10.G.T X6657169.37.T.C X6661569.7.A.G X6652342.46.G.A X6656937.18.C.T X6661537.56.G.A X6664008.14.G.A X6651473.53.G.A X6661884.29.T.A X6662691.24.C.T  
## 1 11 12 22 12 11 12 NA 11 11 12 11 11  
## 2 11 12 22 22 12 NA NA NA 12 12 11 12  
## 3 11 12 11 22 11 12 NA 12 11 12 11 11  
## 4 12 12 11 12 12 NA 11 NA NA 11 11 12  
## 5 12 12 21 12 12 NA 11 NA NA 12 11 12  
## 6 12 12 21 NA 12 NA NA NA NA 12 11 12  
## X6661181.61.C.T X6651798.39.C.A X6661610.46.T.C X6653512.60.C.G X6651413.19.C.A X6651436.18.C.T X6663093.22.C.A X6652854.20.T.C X6657907.22.C.T X6664719.5.A.G X6651857.34.G.T X6658182.11.G.A  
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## 2 11 NA NA 12 11 NA 12 12 12 NA 11 11  
## 3 NA NA NA 11 22 NA 11 12 11 NA 12 11  
## 4 12 NA NA 11 22 12 12 12 11 NA 12 11  
## 5 NA NA NA 12 12 12 NA 12 11 NA 11 NA  
## 6 12 NA NA 12 12 NA 12 12 12 NA NA 11  
## X6661203.33.G.T X100066381.65.T.C X6661291.28.A.C X6651404.67.A.G X6661583.6.T.C X6653019.13.C.T X6661633.39.G.T X6653539.14.G.C X6652507.49.A.G X6662661.7.T.C X6661859.57.A.G X6661395.60.C.T  
## 1 12 12 22 12 NA 12 12 22 11 12 22 NA  
## 2 12 12 22 11 NA 12 12 21 11 12 22 NA  
## 3 12 11 11 11 NA 12 12 21 11 11 11 NA  
## 4 12 11 21 12 NA 12 11 21 11 11 11 NA  
## 5 12 12 11 12 NA 12 NA 21 11 12 NA NA  
## 6 12 NA 21 NA NA NA 12 NA 11 NA 22 NA  
## X6661690.43.G.A X6653303.26.C.T X6650697.6.C.A X6661748.26.C.T X6661276.34.A.G X6651590.59.C.G X6661435.48.G.A X6664012.53.A.G X6651071.8.C.T X6661174.27.G.A X6657901.34.G.A X6661288.56.T.C  
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## 2 22 NA 22 NA 12 12 NA 11 11 11 21 NA  
## 3 22 12 12 22 11 12 NA 22 11 12 11 NA  
## 4 22 12 12 12 11 12 NA 12 11 11 NA NA  
## 5 21 12 22 12 11 22 NA 22 11 12 22 NA  
## 6 22 NA 12 NA 12 12 NA NA 12 11 21 NA  
## X6664895.15.G.A X6665065.54.A.G X6653483.52.C.T X6652822.57.G.A X100065688.55.A.G X6661405.37.G.T X6661817.33.A.G X6651443.47.G.T X6651921.15.T.A X6654090.16.G.A X6653899.53.A.G X6661211.62.G.A  
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## 2 NA 12 12 11 NA 21 12 11 11 NA 12 21  
## 3 22 11 12 12 NA 22 11 12 21 11 12 11  
## 4 11 12 12 11 NA 21 11 11 21 NA 12 11  
## 5 22 11 NA 12 NA 21 12 11 11 NA 11 21  
## 6 NA 12 12 11 NA 11 11 11 NA NA NA 21  
## X6652984.32.G.A X6661495.42.T.C X6650679.43.C.T X6661246.33.G.A X6653043.54.C.G X6651254.12.A.T X6653789.32.G.T X6650988.24.G.A X6650862.68.C.A X6653541.8.A.G X6662900.30.G.A X6653618.37.G.A  
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## 2 11 22 NA 12 11 11 11 12 11 12 11 NA  
## 3 11 22 NA 12 11 12 11 11 12 11 11 12  
## 4 12 22 NA 12 11 11 12 11 11 12 11 12  
## 5 12 22 NA 11 11 12 11 11 12 11 NA 12  
## 6 12 11 NA NA 11 12 11 12 NA 12 11 NA  
## X6664721.14.C.T X6652395.48.C.T X6661842.33.T.A X6661739.54.G.A X6652644.26.G.A X6652332.20.T.C X6651976.25.G.A X6661113.14.C.T X6661301.20.G.A X6662986.27.C.T X6653529.7.G.A X6651972.24.A.G  
## 1 NA 11 12 11 11 11 12 NA 11 11 11 11  
## 2 NA 11 11 11 NA 12 12 NA 11 11 11 12  
## 3 NA 12 12 11 12 11 12 NA 12 NA 11 12  
## 4 NA 12 11 11 NA 11 12 NA NA NA 11 12  
## 5 NA 12 11 11 NA 11 12 NA 11 NA 11 11  
## 6 21 11 12 11 NA 11 NA 11 11 NA 11 11  
## X6652901.58.C.T X6653167.32.C.T X6652763.59.G.A X6651610.56.G.C X6661486.27.C.T X6664344.37.A.G X6661743.17.G.A X6651212.18.A.G X6651054.64.T.A X6653313.42.A.G X6652640.45.C.A X6653127.48.G.A  
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## 2 11 NA 11 11 12 11 11 11 11 11 12 NA  
## 3 12 NA 11 11 NA 12 NA NA 11 11 11 NA  
## 4 12 NA 11 12 NA 11 11 NA 12 NA 12 NA  
## 5 12 11 NA 11 NA 12 11 11 11 11 12 NA  
## 6 12 NA 11 12 NA 11 11 12 11 11 11 NA  
## X6652179.62.G.A X6664422.18.A.G X6661732.8.C.T X6658587.26.G.A X6661161.53.A.C X6657089.25.C.T X6650998.9.A.T X6652379.23.G.C X6652823.50.C.A X6653209.28.G.C X6664750.24.C.T X6666098.18.G.A  
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## 2 22 11 11 NA 22 NA 22 12 12 NA 12 NA  
## 3 22 NA 11 21 22 NA 21 11 11 NA 12 NA  
## 4 22 NA 12 NA 12 NA 21 11 11 NA 12 NA  
## 5 22 11 11 NA 22 NA 22 11 11 NA 12 NA  
## 6 22 11 11 NA 12 11 22 11 12 NA 11 NA  
## X6664416.28.A.G X6661208.26.A.T X100017494.26.T.C X6657426.10.G.T X6650467.17.T.C X6661591.23.T.C X6661615.53.A.G X6651689.52.C.T X100093282.6.C.T X6651044.31.C.T X6663926.8.G.A X6661122.39.C.T  
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## 2 11 NA NA 11 11 12 12 11 12 11 NA NA  
## 3 11 NA NA 12 12 11 12 11 12 11 NA 11  
## 4 11 NA NA 11 12 11 12 11 12 11 NA NA  
## 5 11 NA NA 12 11 11 11 NA 12 11 NA NA  
## 6 11 NA NA 11 NA 11 NA 11 12 11 NA NA  
## X6653015.45.G.T X6651960.46.A.G X6658395.10.A.G X6664288.7.C.G X6651937.12.G.T X6661119.32.T.C X6653567.68.C.T X6657105.21.A.G X6653958.12.C.T X6664417.17.G.A X6653929.22.G.A X6653560.40.C.T  
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## 2 21 12 11 12 11 12 11 22 12 11 NA 11  
## 3 21 12 11 12 11 11 22 11 12 NA NA 12  
## 4 11 12 12 12 11 12 21 22 12 11 NA 11  
## 5 22 12 11 11 11 11 21 22 NA 11 NA 11  
## 6 NA NA 11 12 NA 12 11 11 NA 11 NA 11  
## X6651307.58.C.T X6651918.7.T.C X6652335.27.T.C X6652403.61.A.C X6661676.25.C.T X6657686.15.A.G X6661180.15.G.A X6664065.56.A.T X6662654.14.C.T X6661258.19.T.G X6661326.21.G.T X6661503.51.G.A  
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## 2 11 12 12 12 NA NA NA NA NA 11 11 11  
## 3 11 22 11 11 NA NA 12 NA NA 12 11 11  
## 4 11 12 12 11 NA NA 12 NA NA 12 11 11  
## 5 11 22 12 11 NA NA 11 NA NA 11 11 11  
## 6 11 NA NA 11 11 NA NA NA 11 11 11 11  
## X6665677.54.T.C X6651345.67.A.G X6653158.39.C.T X6661434.33.C.T X6650700.61.G.A X6665573.50.G.T X100103686.15.C.T X6661407.28.A.T X6662956.24.T.G X6653198.44.C.T X100119886.12.A.G X6653976.22.T.C  
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## 4 11 11 NA 11 11 21 NA 11 11 NA 11 11  
## 5 11 11 NA 11 12 NA NA 11 11 NA 11 11  
## 6 11 NA NA 11 11 NA NA 11 11 NA NA 12  
## X6661123.44.T.C X6661423.44.C.T X6661694.9.T.C X6653208.48.G.A X6661587.35.T.C X6653932.10.C.T X6657861.14.G.A X6664287.35.C.T X6653108.33.A.G X6650863.33.C.T X6653166.35.T.C X6652001.24.A.G  
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## 3 12 NA 11 NA 22 12 11 NA 11 22 12 11  
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## 6 12 NA 11 NA NA NA NA 11 11 21 NA 12  
## X6657913.25.C.G X100109898.15.G.A X6661240.65.T.A X6661268.13.G.A X6653580.43.G.T X6657145.22.C.A X6661660.20.C.T X6652645.41.C.T X6651100.28.C.T X6661548.20.A.G X6657725.32.C.T X6652908.9.A.T  
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## 5 12 11 11 11 11 NA 12 11 NA NA 11 12  
## 6 12 NA NA 11 11 11 12 11 11 NA NA 12  
## X6661838.60.T.G X6652562.28.G.A X6654077.33.C.T X6661761.38.G.A X6658102.52.C.T X6657350.31.T.A X6651178.33.C.T X6661253.38.T.C X100104030.16.C.A X6664895.24.C.A X6653522.21.A.G X6661899.11.A.G  
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## 6 12 NA 12 NA 11 NA 11 12 11 22 12 NA  
## X6650883.48.C.T X6661607.53.C.G X6654004.30.T.A X6653722.5.T.G X6654003.26.C.A X6652045.5.C.T X6658305.27.T.C X6657714.46.T.C X6661603.40.G.C X6650949.5.A.T X6664725.29.A.G X6657697.38.A.G  
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## 2 12 11 11 11 12 NA 22 NA 11 12 22 11  
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## 4 11 11 11 11 11 NA 22 NA 11 11 22 11  
## 5 11 NA 11 11 12 NA 22 NA 11 12 21 11  
## 6 11 NA 11 11 11 11 NA NA 11 12 21 11  
## X6661471.62.C.G X6661765.40.G.A X6661481.66.A.C X6653282.53.T.C X6652110.26.C.T X6652196.51.C.T X6652944.56.G.A X6658191.17.C.G X6661286.15.G.A X6653684.7.T.C X6653203.66.A.G X6661751.44.T.G  
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## X6661711.66.G.A X6650674.36.C.T X6653554.14.G.A X6651804.55.G.C X6664076.29.C.A X6663980.50.G.A X100102214.5.C.T X6653379.50.A.G X6651865.33.T.G X6661260.22.A.T X6651954.62.T.C X6656942.42.G.A  
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## X6652635.57.G.A X6661149.41.C.T X6650632.65.G.A X6650568.31.G.C X6650938.6.C.T X6658511.21.A.C X6654094.65.T.C X6653106.31.C.T X6661381.44.A.G X6652779.66.A.G X6650898.47.G.A X6657805.7.A.G  
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## 4 11 12 NA 11 12 12 11 12 11 11 11 11  
## 5 11 12 11 12 22 12 11 11 11 11 12 11  
## 6 11 12 NA 11 12 11 NA 11 11 11 11 11  
## X6661727.46.C.T X6662592.9.C.T X6661085.13.C.T X6661239.45.A.G X6665990.9.G.C X6650977.39.G.A X6652000.22.C.T X6658391.30.C.T X6661184.41.C.G X6651519.67.C.G X6652011.54.C.T X6661376.29.C.T  
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## X6650669.9.A.G X100073501.45.A.G X6651742.50.G.A X6653416.29.C.T X6661643.49.G.A X6650635.62.G.A X6651529.9.C.T X6652878.58.G.T X6665222.67.C.A X6661481.18.C.T X6665990.48.C.G X6661216.67.C.T  
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## 2 11 NA 12 NA 11 11 NA 11 11 NA NA 12  
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## 5 11 NA 12 NA 11 11 NA 11 11 22 NA 11  
## 6 11 NA 12 NA 11 11 NA 11 11 NA NA 11  
## X6663955.62.T.C X6652246.10.G.A X6661167.12.T.A X6661710.53.G.A X6664085.17.G.T X6661652.62.A.C X6657045.15.A.G X6661805.6.C.G X6652339.26.G.T X6661277.47.G.A X6661335.49.T.G X6652597.28.C.T  
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## 2 22 NA 11 12 NA 11 NA 22 11 12 11 11  
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## X6653567.68.C.T 3.131787e-03 -4.971061e-02 0.490990991  
## X6657105.21.A.G 1.830703e-02 -5.264402e-02 0.485849057  
## X6653958.12.C.T 4.635810e-03 -7.437807e-02 0.480263158  
## X6664417.17.G.A 1.892228e-02 -1.372254e-01 0.518987342  
## X6653929.22.G.A 6.091783e-03 -8.876272e-02 0.493421053  
## X6653560.40.C.T -2.554875e-03 -4.875320e-02 0.497925311  
## X6651307.58.C.T 3.146227e-03 -9.028224e-02 0.487500000  
## X6651918.7.T.C 1.579976e-02 -6.404528e-02 0.503267974  
## X6652335.27.T.C 1.852506e-02 -7.651059e-02 0.491803279  
## X6652403.61.A.C 1.148377e-02 -6.964080e-02 0.485355649  
## X6661676.25.C.T 7.401154e-03 -4.130819e-02 0.489795918  
## X6657686.15.A.G 3.237870e-04 -1.214502e-01 0.527272727  
## X6661180.15.G.A 1.003838e-03 -1.406962e-01 0.553398058  
## X6664065.56.A.T -2.267443e-03 -1.083411e-01 0.515625000  
## X6662654.14.C.T 3.022174e-03 -1.610333e-01 0.564885496  
## X6661258.19.T.G 2.519432e-02 -6.432010e-02 0.502145923  
## X6661326.21.G.T 9.993544e-04 -8.846559e-02 0.483091787  
## X6661503.51.G.A 1.242738e-02 -7.474503e-02 0.480000000  
## X6665677.54.T.C 2.937241e-03 -1.086719e-01 0.462184874  
## X6651345.67.A.G 8.091139e-03 -4.446965e-02 0.431578947  
## X6653158.39.C.T 5.882967e-04 -1.158283e-01 0.520000000  
## X6661434.33.C.T 1.523594e-02 -1.211209e-01 0.476793249  
## X6650700.61.G.A 1.222915e-02 -6.792654e-02 0.494382022  
## X6665573.50.G.T -2.873815e-03 -8.645170e-02 0.460937500  
## X100103686.15.C.T 2.964221e-03 -2.110245e-01 0.647619048  
## X6661407.28.A.T 3.233883e-03 -1.079018e-01 0.488687783  
## X6662956.24.T.G 2.023178e-02 -1.223522e-01 0.487603306  
## X6653198.44.C.T 7.238862e-03 -1.192712e-01 0.547368421  
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## X6653976.22.T.C 1.362359e-02 -3.711644e-02 0.448275862  
## X6661123.44.T.C -5.094193e-04 -1.155740e-01 0.482758621  
## X6661423.44.C.T 2.059557e-02 -1.255550e-01 0.547619048  
## X6661694.9.T.C 2.536288e-02 -4.590956e-02 0.482300885  
## X6653208.48.G.A -6.037059e-03 -8.325297e-02 0.507042254  
## X6661587.35.T.C 3.079671e-02 1.573351e-02 0.402439024  
## X6653932.10.C.T 2.654239e-02 -2.652667e-02 0.398058252  
## X6657861.14.G.A 1.872936e-02 -1.383916e-01 0.497560976  
## X6664287.35.C.T 8.622200e-04 -1.383076e-01 0.549295775  
## X6653108.33.A.G 2.609875e-02 -5.854752e-02 0.469483568  
## X6650863.33.C.T 3.934528e-03 -6.669265e-02 0.466666667  
## X6653166.35.T.C -2.941629e-04 -6.384167e-02 0.481707317  
## X6652001.24.A.G 1.163669e-03 -8.814207e-02 0.468085106  
## X6657913.25.C.G 4.932043e-03 -7.599782e-02 0.437768240  
## X100109898.15.G.A 6.329262e-04 -1.066237e-01 0.461883408  
## X6661240.65.T.A 1.052692e-02 -1.063706e-01 0.463414634  
## X6661268.13.G.A 9.544292e-03 -1.494136e-01 0.533834586  
## X6653580.43.G.T 1.098197e-02 -5.420550e-02 0.452674897  
## X6657145.22.C.A 1.018060e-02 -9.185797e-02 0.451612903  
## X6661660.20.C.T -1.367635e-03 -5.565548e-02 0.450216450  
## X6652645.41.C.T 1.140411e-02 -1.883327e-02 0.418918919  
## X6651100.28.C.T 8.593409e-03 -7.574879e-02 0.437125749  
## X6661548.20.A.G 3.011645e-03 -1.955554e-01 0.623655914  
## X6657725.32.C.T 4.023411e-03 -1.347662e-01 0.530434783  
## X6652908.9.A.T 2.957438e-03 -5.045874e-02 0.444444444  
## X6661838.60.T.G 1.653883e-03 -8.609013e-02 0.454935622  
## X6652562.28.G.A 7.540532e-03 -1.020503e-01 0.521739130  
## X6654077.33.C.T 3.598214e-03 -6.288017e-02 0.445833333  
## X6661761.38.G.A 8.109781e-03 -1.916451e-01 0.612244898  
## X6658102.52.C.T 2.285113e-02 -1.154218e-01 0.491124260  
## X6657350.31.T.A 1.375940e-03 -8.052481e-02 0.475138122  
## X6651178.33.C.T 1.088665e-02 -7.996356e-02 0.425000000  
## X6661253.38.T.C 3.783559e-02 -3.369320e-02 0.425233645  
## X100104030.16.C.A 1.326350e-02 -3.952250e-02 0.474654378  
## X6664895.24.C.A 5.429318e-03 2.468240e-02 0.458333333  
## X6653522.21.A.G 6.226598e-03 -1.247455e-01 0.500000000  
## X6661899.11.A.G 1.200876e-02 -1.282091e-01 0.546762590  
## X6650883.48.C.T 3.433756e-04 -7.805023e-02 0.443925234  
## X6661607.53.C.G 5.605816e-03 -9.739549e-02 0.444444444  
## X6654004.30.T.A 9.915640e-03 -4.748707e-02 0.422018349  
## X6653722.5.T.G 6.011729e-03 -3.495121e-02 0.417777778  
## X6654003.26.C.A 1.157650e-02 -6.368842e-02 0.442396313  
## X6652045.5.C.T 2.610516e-03 -9.458090e-02 0.500000000  
## X6658305.27.T.C 8.758878e-03 -8.844666e-02 0.491803279  
## X6657714.46.T.C -3.097243e-03 -8.878637e-02 0.461538462  
## X6661603.40.G.C 1.396145e-02 -8.414494e-02 0.439655172  
## X6650949.5.A.T 1.223237e-02 -7.889080e-02 0.398340249  
## X6664725.29.A.G 1.015659e-02 5.842934e-02 0.433962264  
## X6657697.38.A.G 1.024157e-02 -4.203702e-02 0.371980676  
## X6661471.62.C.G 1.044293e-02 -1.067356e-01 0.464912281  
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## X6661481.66.A.C 3.566999e-03 3.639027e-02 0.431192661  
## X6653282.53.T.C 1.172224e-02 -6.351363e-02 0.428571429  
## X6652110.26.C.T 1.882841e-02 -6.698444e-02 0.460937500  
## X6652196.51.C.T -2.936057e-03 7.749543e-04 0.420289855  
## X6652944.56.G.A 1.200200e-02 -1.285374e-01 0.521367521  
## X6658191.17.C.G 2.790994e-03 -4.797606e-02 0.440594059  
## X6661286.15.G.A -1.582609e-03 -8.269338e-02 0.411214953  
## X6653684.7.T.C -2.562385e-03 -8.111617e-02 0.457516340  
## X6653203.66.A.G 1.429172e-02 -5.903193e-02 0.411214953  
## X6661751.44.T.G 5.979509e-02 -8.229084e-03 0.413043478  
## X6661711.66.G.A 1.058359e-02 -2.813655e-02 0.376068376  
## X6650674.36.C.T -1.218658e-03 -6.186227e-02 0.412500000  
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## X6651804.55.G.C 1.851590e-03 -4.109721e-02 0.418750000  
## X6664076.29.C.A 7.026333e-03 -8.238775e-02 0.429864253  
## X6663980.50.G.A 5.122010e-03 -8.280093e-02 0.410041841  
## X100102214.5.C.T -2.066217e-03 -1.056736e-01 0.493243243  
## X6653379.50.A.G -1.477614e-03 -4.613488e-02 0.403361345  
## X6651865.33.T.G 1.477374e-02 -2.896304e-02 0.384297521  
## X6661260.22.A.T 1.758355e-03 -3.956373e-02 0.385281385  
## X6651954.62.T.C 4.483595e-03 -7.090552e-02 0.410377358  
## X6656942.42.G.A 1.112076e-02 -3.262628e-02 0.361702128  
## X6652635.57.G.A -5.643165e-03 -5.618240e-02 0.410596026  
## X6661149.41.C.T 1.748000e-03 -4.557252e-03 0.414414414  
## X6650632.65.G.A 1.460510e-02 -2.373886e-02 0.387755102  
## X6650568.31.G.C 7.878747e-03 -1.889888e-02 0.374485597  
## X6650938.6.C.T 3.569226e-03 -2.441930e-02 0.376744186  
## X6658511.21.A.C 1.233223e-02 -7.763240e-02 0.427966102  
## X6654094.65.T.C 2.093307e-04 -6.598970e-02 0.364705882  
## X6653106.31.C.T 1.124610e-03 -3.670229e-02 0.392070485  
## X6661381.44.A.G 4.252723e-03 -8.127097e-02 0.412087912  
## X6652779.66.A.G 1.082779e-02 -4.242088e-02 0.369158879  
## X6650898.47.G.A 4.759455e-03 -2.441150e-02 0.364928910  
## X6657805.7.A.G 1.204437e-02 -8.987376e-02 0.416243655  
## X6661727.46.C.T -1.078657e-03 -4.010135e-02 0.383783784  
## X6662592.9.C.T 2.241408e-02 -7.377062e-02 0.415929204  
## X6661085.13.C.T 5.667590e-03 -4.417301e-02 0.375000000  
## X6661239.45.A.G 3.168929e-03 -9.182540e-02 0.448598131  
## X6665990.9.G.C 1.553321e-02 -1.865378e-01 0.663865546  
## X6650977.39.G.A -1.794194e-03 -4.832800e-02 0.366071429  
## X6652000.22.C.T 1.842051e-03 -5.855599e-02 0.371559633  
## X6658391.30.C.T 1.840484e-02 -8.998043e-02 0.388646288  
## X6661184.41.C.G 1.323887e-02 1.202673e-01 0.367965368  
## X6651519.67.C.G -6.826039e-04 -3.150814e-02 0.379166667  
## X6652011.54.C.T -2.718890e-03 -5.499194e-02 0.396551724  
## X6661376.29.C.T -3.657570e-03 -5.583104e-02 0.346153846  
## X6650669.9.A.G 1.407114e-02 -5.576447e-02 0.387234043  
## X100073501.45.A.G -4.282648e-04 -1.143941e-01 0.481481481  
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## X6661643.49.G.A 1.260469e-02 -6.497431e-02 0.365740741  
## X6650635.62.G.A 4.712697e-03 -1.021007e-02 0.356223176  
## X6651529.9.C.T 3.832070e-03 -4.933881e-02 0.371681416  
## X6652878.58.G.T 9.607995e-03 -1.103640e-01 0.455284553  
## X6665222.67.C.A 2.517336e-03 -4.594326e-02 0.373949580  
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## X6663955.62.T.C 2.616660e-02 1.305375e-01 0.349056604  
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## X6661710.53.G.A -3.254894e-03 -6.886694e-02 0.379888268  
## X6664085.17.G.T 6.949950e-03 -1.084798e-01 0.455089820  
## X6661652.62.A.C 8.300362e-03 5.317944e-02 0.377682403  
## X6657045.15.A.G 4.634463e-03 -1.143971e-01 0.472727273  
## X6661805.6.C.G -1.444216e-03 1.197706e-01 0.364055300  
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## X6661737.51.G.T 7.303482e-03 -5.063238e-02 0.336206897  
## X6664079.62.A.T 1.328637e-03 -6.469525e-02 0.358024691  
## X6661334.49.G.T 1.036457e-03 -3.808845e-02 0.370558376  
## X6661187.52.C.T -2.333815e-03 -7.312266e-02 0.389221557  
## X6653800.24.G.A 1.910964e-03 -1.636097e-02 0.318385650  
## X6665242.22.G.A 2.929019e-02 8.323963e-02 0.394736842  
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## X6653693.39.C.A 9.484031e-03 -1.436222e-01 0.555555556  
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## X6651494.48.G.A -1.094215e-02 -4.448253e-02 0.380281690  
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## X6657933.10.C.T 2.420114e-03 -1.233440e-01 0.495145631  
## X6651038.40.T.C -1.654245e-03 -4.347444e-02 0.319327731  
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## X6651571.67.C.T 5.289355e-03 -5.072013e-02 0.353293413  
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## X6661846.32.C.T 8.102876e-03 -5.579161e-02 0.350877193  
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## X6657305.12.A.C 7.945263e-03 -6.737880e-02 0.350427350  
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## X6657606.35.G.A 9.610890e-03 -7.194787e-02 0.379310345  
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## X6661485.59.A.G 3.328532e-03 -5.153186e-02 0.337016575  
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## X6664412.13.G.A 1.664766e-02 3.109530e-02 0.326530612  
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## X6652859.41.C.T 1.009142e-02 2.332274e-02 0.310810811  
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## X6653459.28.T.C -1.240244e-03 -4.228479e-03 0.299516908  
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## X6658444.32.T.G 1.350814e-04 -4.642717e-02 0.323651452  
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## X6661666.47.C.A -9.525529e-04 -3.427266e-02 0.266375546  
## X6657189.5.T.A 6.193358e-03 -6.784827e-02 0.382812500  
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## X6661747.23.A.G 8.485274e-03 -4.052730e-02 0.304932735  
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## X6652381.42.A.T -4.254095e-04 -2.731951e-02 0.286363636  
## X6651915.13.C.T 9.157617e-03 1.096107e-02 0.302439024  
## X6662884.19.C.T 1.919293e-03 -3.874355e-02 0.276595745  
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## X6658345.31.A.G 3.355798e-03 -7.341904e-03 0.280487805  
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## X6653605.24.T.C 4.568257e-03 -2.874860e-02 0.283505155  
## X100044679.44.A.G 2.184435e-02 -5.524070e-02 0.302197802  
## X100115090.8.A.G -1.158680e-03 -2.231085e-02 0.246636771  
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## X6650884.45.C.T 9.638458e-03 -6.002149e-02 0.325396825  
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## X6651870.51.T.C 1.480641e-02 -1.884014e-02 0.293859649  
## X6650549.15.C.T 5.043894e-03 -4.129128e-02 0.276190476  
## X6662909.15.A.C 1.623603e-02 -7.119583e-02 0.342857143  
## X6661345.10.T.C 1.259492e-02 -4.163327e-02 0.252212389  
## X100096951.40.T.A 7.304203e-03 -3.434978e-02 0.287610619  
## X6651934.39.C.A 4.619570e-03 2.522939e-02 0.282828283  
## X6653561.20.A.G 3.177192e-03 -4.228887e-02 0.284615385  
## X6663982.40.G.A 2.066495e-03 -3.941299e-02 0.276315789  
## X6661677.22.C.T 4.238034e-03 8.430982e-03 0.261467890  
## X6661705.29.C.G 2.205265e-02 -6.704177e-03 0.287081340  
## X6661413.63.C.T 5.590523e-03 -3.967821e-02 0.266666667  
## X100065757.18.C.G 3.188942e-05 -2.788820e-02 0.238095238  
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## X6661310.64.T.C 3.041222e-03 -3.191235e-02 0.298429319  
## X6661349.63.A.G 2.490372e-03 -1.421563e-02 0.259615385  
## X100116458.50.G.A 1.986346e-03 -6.221946e-03 0.242798354  
## X6665749.7.G.A 1.060836e-03 -3.406076e-02 0.259433962  
## X6652731.67.C.G 4.843720e-03 -3.183218e-02 0.262500000  
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## X6653889.13.C.T 6.066488e-03 -2.627363e-02 0.268292683  
## X6650390.62.T.A -1.161762e-03 -2.002215e-02 0.236842105  
## X6665512.36.G.A 2.258613e-03 -4.360494e-02 0.292452830  
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## X6661130.57.A.C 1.006186e-03 -3.193663e-02 0.251028807  
## X6650397.43.A.G 1.456752e-02 -1.904176e-02 0.272727273  
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## X6664740.45.G.A 6.789798e-03 -7.276140e-03 0.226804124  
## X6661717.60.G.A 1.093351e-02 -3.838401e-02 0.244541485  
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## X6661803.57.G.C 2.561507e-03 -1.700458e-02 0.216494845  
## X6653812.35.T.C -2.008376e-03 -3.057797e-02 0.256097561  
## X6653634.39.G.A 2.542582e-02 -1.798439e-02 0.223214286  
## X6653421.13.A.G 3.270910e-03 -2.868294e-02 0.229787234  
## X6653117.34.C.G 8.954671e-03 6.383054e-02 0.228310502  
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## X6663918.8.C.G 1.503326e-04 -1.272288e-02 0.226337449  
## X6651738.38.G.C 2.992288e-02 3.019504e-03 0.234567901  
## X100073717.6.G.A -1.167596e-03 -2.031256e-02 0.209302326  
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## X6663009.7.C.T -1.102725e-03 -3.179019e-02 0.257575758  
## X6665630.52.T.C 5.603772e-03 -3.423677e-02 0.247422680  
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## X6650967.42.C.A 2.275629e-03 -2.171049e-02 0.230452675  
## X6661605.18.C.T 7.945489e-03 -4.714756e-02 0.289473684  
## X6651286.19.T.A 8.286906e-03 -3.018654e-02 0.218340611  
## X6653631.43.C.T -1.256648e-03 -3.228819e-02 0.261682243  
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## X6661386.46.C.T 1.443998e-02 5.528964e-02 0.227027027  
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## X6658489.9.C.T -8.757744e-04 -3.136759e-02 0.256637168  
## X100018527.6.C.T 1.808100e-04 -1.331807e-02 0.204651163  
## X6663957.56.G.A 9.357293e-03 -2.024397e-02 0.230769231  
## X6653138.31.G.A 1.826989e-03 -7.057500e-03 0.198275862  
## X6653361.55.G.A 8.169774e-03 -1.131524e-02 0.196428571  
## X6662597.30.A.G 1.070961e-02 -2.713160e-02 0.194029851  
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## X6664770.35.T.G 3.131068e-03 -1.794455e-02 0.213333333  
## X100018912.62.G.T 5.887824e-03 -2.396458e-02 0.197530864  
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## X6664775.59.A.G 6.539473e-03 2.195597e-01 0.176795580  
## X6651694.29.A.T 3.145711e-03 -1.094174e-02 0.180555556  
## X6664064.49.A.G 2.039791e-03 -2.272494e-02 0.207048458  
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## X6651840.35.G.A 5.171384e-03 -1.728545e-02 0.212643678  
## X6651055.13.G.A 1.080259e-02 -3.767472e-02 0.242857143  
## X6653477.22.A.T 4.410423e-03 -2.258473e-02 0.196652720  
## X6661719.26.T.A 7.447541e-03 -3.119903e-02 0.226744186  
## X6661828.67.T.A 3.250305e-02 1.289699e-01 0.228070175  
## X6654030.47.G.A -7.393060e-04 1.098325e-03 0.175355450  
## X6665066.58.G.C 1.493255e-02 3.113176e-01 0.166666667  
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## X6654039.20.G.A 5.641241e-03 1.835345e-02 0.186868687  
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## X6663983.17.C.T 3.535746e-04 -1.610188e-02 0.181102362  
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## X6653607.5.T.C 2.846971e-03 -2.119858e-02 0.196629213  
## X6661170.39.C.T 2.435464e-03 -3.742014e-02 0.270000000  
## X6661781.60.G.A 6.932621e-03 -2.070511e-02 0.175438596  
## X100073694.44.G.A 1.043039e-03 -9.453258e-03 0.183574879  
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## X6661831.54.T.C 3.450901e-03 -1.759394e-02 0.173728814  
## X6652266.47.T.C 3.051211e-03 -2.219239e-02 0.201388889  
## X6663080.20.G.A 1.483964e-03 -5.456896e-03 0.161616162  
## X6665672.66.T.A 2.603980e-03 -1.057361e-02 0.177215190  
## X6658491.28.C.A 8.481451e-03 7.821091e-02 0.161434978  
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## X6662595.39.C.T 1.764013e-02 -3.979239e-02 0.230000000  
## X6665990.6.A.T 1.256157e-02 2.563788e-01 0.166666667  
## X6657377.47.C.T 8.699868e-03 -1.999942e-03 0.133858268  
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## X6651958.27.A.G 5.621997e-03 -2.204418e-02 0.192771084  
## X6653919.17.C.T 1.534170e-02 -2.045342e-02 0.204724409  
## X100021874.46.A.G 4.142918e-03 -1.246472e-02 0.136986301  
## X100016068.62.T.A 9.306718e-04 -1.225056e-02 0.153508772  
## X6665489.31.C.T 5.343949e-03 -1.594215e-02 0.154185022  
## X100082278.57.C.T 1.230655e-02 9.575632e-02 0.165048544  
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## X6664050.24.G.C 8.875604e-03 -1.531111e-02 0.129186603  
## X6652868.58.A.G 1.856087e-03 7.691356e-03 0.120930233  
## X6661564.13.A.G 4.525189e-04 -5.823543e-03 0.106382979  
## X6650547.43.C.G 1.228215e-03 -8.905075e-03 0.127572016  
## X100064827.8.G.C 3.667159e-03 -1.054841e-02 0.125748503  
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## X6651911.52.G.A 8.390260e-03 -1.089766e-02 0.092783505  
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## X6653091.46.C.G 1.546753e-03 1.087305e-02 0.097674419  
## X6651733.50.G.A 1.073912e-03 9.653764e-03 0.094650206  
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## X6661468.27.G.A 4.991438e-03 -7.125898e-03 0.081250000  
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## X6663926.28.C.T 3.372720e-02 1.614532e-01 0.083832335  
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## X100066158.21.G.A 6.730269e-04 -3.391069e-03 0.079646018  
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## X6661314.26.G.A -5.621029e-04 -1.209779e-03 0.064102564  
## X6653619.65.T.C 6.941398e-04 -1.732121e-03 0.051136364  
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## X6664385.5.T.G 1.015357e-05 -1.273095e-04 0.017777778  
## X100080823.15.G.A -1.695419e-05 -1.073926e-04 0.017937220  
## X100098565.15.A.G -7.393030e-04 1.065637e-04 0.036363636  
## X6662594.6.A.G 4.164470e-05 -3.261017e-04 0.026431718  
## X6662608.14.T.C 2.382444e-04 -5.292941e-04 0.028301887  
## X100111015.17.T.A 3.636789e-04 -7.905048e-04 0.036036036  
## X6651630.13.G.A 7.244570e-04 -7.331332e-04 0.020408163  
## X100015677.15.G.A 8.690010e-05 -2.727537e-04 0.022421525  
## X100021199.37.T.C -6.783162e-05 5.490021e-05 0.007299270  
## X6651723.7.T.C 8.006677e-05 -1.082484e-04 0.013071895  
## X6651946.25.T.C 4.825197e-05 -2.664644e-04 0.024539877  
## X6652107.59.C.T 6.811298e-05 -1.386544e-04 0.018181818  
## X6662703.23.A.G 9.430262e-05 -2.747492e-04 0.022222222  
## X6656926.24.G.A 3.260969e-04 -4.672944e-04 0.022421525  
## X6662639.8.G.T -1.592798e-04 -5.047925e-05 0.023076923  
## X6644134.13.A.C 1.210802e-03 -1.633958e-03 0.038135593  
## X100015999.30.C.T 4.331753e-04 -1.042030e-03 0.039301310  
## X6651264.67.C.T -3.721510e-04 8.574844e-05 0.023952096  
## X100082192.45.T.C -7.123538e-05 -2.030539e-05 0.017543860  
## X6658187.20.A.G 4.622026e-04 -4.342432e-04 0.015384615  
## X6658030.16.T.G -3.091039e-05 -2.724207e-05 0.012500000  
## X6664447.43.A.G 4.090098e-05 -3.421310e-04 0.030303030  
## X6657081.38.A.G -2.220396e-05 1.802581e-05 0.004830918  
## X6657519.27.C.A -3.766740e-05 -2.255294e-05 0.012605042  
## X6657646.21.G.A 5.503152e-04 -9.209971e-04 0.035398230  
## X6658294.22.A.G 4.508697e-04 -5.042017e-04 0.019047619  
## X6663106.39.T.C 1.021413e-04 -1.507443e-04 0.016393443  
## X6665877.8.T.C 4.246710e-06 -6.802721e-05 0.013888889  
## X6657134.12.C.T 5.031004e-05 -3.026110e-04 0.026315789  
## X6662930.5.G.T 1.872790e-04 -2.396514e-04 0.018518519  
## X100073664.24.C.A -5.411151e-05 1.857770e-05 0.010101010  
## X100093267.33.A.T 6.804548e-04 -9.162723e-04 0.031496063  
## X6665045.33.A.T -3.235784e-05 -3.676779e-04 0.032258065  
## X6653064.39.T.C 9.275122e-05 -7.537215e-05 0.008196721  
## X6652028.11.T.C -1.638222e-05 -4.728804e-05 0.013452915  
## X6652053.54.A.G -2.204812e-06 -1.063917e-04 0.016949153  
## X6661327.40.C.T 6.088970e-04 -8.579994e-04 0.029045643  
## X100020810.55.A.G -1.790393e-04 1.856604e-02 0.018867925  
## X6661141.23.C.T -1.558506e-05 -4.191104e-05 0.012765957  
## X100018274.35.A.G 3.811202e-04 -5.782171e-04 0.028037383  
## X100020489.64.T.C -1.678120e-04 5.893694e-05 0.015228426  
## X100021048.30.T.C 1.132558e-03 -9.239940e-04 0.016393443  
## X100021494.48.T.C 7.703137e-05 -9.416196e-05 0.011299435  
## X100015195.36.C.T 7.245426e-05 -9.825701e-05 0.012500000  
## X6652099.5.C.T 6.442834e-05 -9.894387e-05 0.013513514  
## X100019298.65.T.C 8.209813e-04 -7.636236e-04 0.017045455  
## X100020731.53.A.G -1.358335e-05 -1.755949e-04 0.021551724  
## X100065190.44.T.C -1.650856e-05 -3.935560e-05 0.012552301  
## X6651997.59.A.G -3.527117e-05 2.826674e-05 0.005524862  
## X6658436.20.C.T -1.550944e-05 -4.386681e-05 0.012987013  
## X6650975.51.G.A -1.267147e-04 4.348215e-05 0.013333333  
## X6657565.7.G.A 1.056896e-04 -1.524139e-04 0.014084507  
## X6658077.34.T.C -2.951422e-05 2.403209e-05 0.005076142  
## X6652620.41.C.T -4.865559e-05 -2.166689e-05 0.013513514  
## X6657312.42.G.A -5.824929e-05 2.907105e-05 0.008510638  
## X6657368.39.G.A 1.753039e-05 -3.428232e-05 0.008928571  
## X6657412.9.T.G -6.361045e-06 -9.943760e-05 0.016666667  
## X6657526.48.C.T 5.251711e-05 -6.450336e-05 0.009345794  
## X6658588.11.C.T 3.141287e-05 -4.825807e-05 0.009523810  
## X6662668.7.A.T 1.935027e-04 -2.095661e-04 0.012500000  
## X6662868.15.G.A 3.246062e-04 -3.855063e-04 0.017937220  
## X6663029.17.G.A 4.492614e-05 -1.572148e-04 0.018987342  
## X6664446.24.T.C -1.253591e-04 -5.807757e-05 0.020618557  
## X100086116.7.C.A -7.974582e-06 -4.670053e-05 0.012605042  
## X100093344.14.G.C -4.977186e-05 4.058442e-05 0.006250000  
## X100098451.30.G.T -1.627169e-05 -3.908420e-05 0.012500000  
## X100104877.27.G.A -9.265820e-05 3.605674e-05 0.012500000  
## X6656935.13.T.G 5.589199e-05 -7.189686e-05 0.010309278  
## X6657240.11.C.T 1.268002e-04 -1.711796e-04 0.014285714  
## X6657387.17.A.T -9.816448e-05 2.747963e-05 0.012500000  
## X6658126.24.C.G -7.495761e-06 -5.039248e-05 0.012987013  
## X6662893.11.C.G -4.563192e-05 -2.856871e-05 0.014018692  
## X100098564.20.T.C -2.542549e-05 2.057566e-05 0.004739336  
## X100108662.16.G.A -1.037956e-04 8.396470e-05 0.008064516  
## X100090375.13.A.C 2.762362e-04 -4.951500e-04 0.025423729  
## X6654111.67.T.C NA NA NA  
## X100018022.29.C.T 1.043816e-04 -1.747030e-04 0.018867925  
## X100018793.30.G.A -1.747177e-05 -1.972331e-04 0.022935780  
## X100019919.22.G.A 2.402335e-05 -1.503432e-04 0.019736842  
## X100020224.39.A.G -5.857782e-05 2.795491e-05 0.008810573  
## X100021950.26.G.A 4.928164e-04 -5.656109e-04 0.025641026  
## X100065898.33.G.A 4.430595e-05 -1.584546e-04 0.018018018  
## X100016342.65.A.G -5.112941e-04 1.265850e-04 0.029702970  
## X6653141.47.T.A -1.970955e-04 4.893156e-05 0.021276596  
## X100020182.5.A.G -1.134301e-04 9.319664e-05 0.009009009  
## X100017739.16.A.G -1.722864e-05 1.395570e-05 0.004424779  
## X100019425.22.T.C 3.227381e-05 -4.487866e-05 0.008620690  
## X100019993.60.T.C -6.135113e-05 2.990398e-05 0.008968610  
## X100020111.24.T.C -8.621318e-05 4.355754e-05 0.010309278  
## X100022090.7.C.A -1.773321e-05 1.442148e-05 0.004201681  
## X100020509.41.C.T 5.840823e-05 -6.777611e-05 0.009009009  
## X100019969.57.T.C 8.023803e-05 -1.177298e-04 0.014388489  
## X100021750.68.T.G -1.664051e-05 1.353134e-05 0.004291845  
## X6650682.7.C.T -2.741412e-05 2.230182e-05 0.005050505  
## X100073640.6.A.G 7.038737e-05 -7.647790e-05 0.008810573  
## X6658242.13.G.A 2.557690e-04 -2.560762e-04 0.013605442  
## X6661085.49.C.T -4.574597e-04 1.839080e-02 0.000000000  
## X6650645.14.C.G 1.330146e-04 -1.070978e-04 0.005050505  
## X100022464.43.T.A -1.131285e-04 3.996561e-05 0.012448133  
## X100065437.41.T.C 4.845345e-05 -9.846875e-05 0.013274336  
## X6652497.42.C.A -5.387100e-05 2.675607e-05 0.008230453  
## X6653265.58.G.C -1.341702e-04 1.178356e-05 0.019607843  
## X6653475.24.G.A -1.840260e-05 1.497158e-05 0.004484305  
## X100021941.30.C.T -4.500638e-05 1.747512e-05 0.008733624  
## X6658496.17.G.A NA NA NA  
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## X100015613.67.G.A 1.796758e-05 -1.214960e-04 0.017857143  
## X6652888.64.A.G 5.980251e-05 -6.722059e-05 0.008620690  
## X6657111.13.T.C -4.174159e-04 1.965660e-04 0.023529412  
## X6658119.34.T.A 4.142148e-05 -5.149474e-05 0.008438819  
## X6661367.26.G.T 1.281901e-04 -1.362500e-04 0.011235955  
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## X100016385.11.T.C 1.152427e-04 -2.148330e-04 0.017937220  
## X100073644.37.C.T 3.921182e-07 -3.034469e-05 0.010928962  
## X6650454.46.A.G -4.676290e-05 1.690361e-05 0.009132420  
## X6650627.13.T.C -2.269819e-04 1.830479e-04 0.011764706  
## X6651042.67.C.T -4.179647e-05 3.393833e-05 0.005988024  
## X6652424.44.T.C -2.195625e-05 -3.493860e-05 0.012552301  
## X6653438.30.C.T -4.040889e-05 1.373352e-05 0.008733624  
## X6653954.43.A.G -7.085371e-05 5.702183e-05 0.010101010  
## X6657314.43.G.A -3.679792e-06 2.997421e-06 0.004291845  
## X6657355.38.G.A -4.009492e-04 3.305785e-04 0.020000000  
## X6657359.15.A.G 3.312357e-04 -2.719503e-04 0.009090909  
## X6657460.29.G.A -3.031086e-05 2.456750e-05 0.005102041  
## X6657482.8.A.G -6.276136e-05 3.065506e-05 0.008968610  
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## X6661394.35.A.G NA NA NA  
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## X6662872.17.G.T -5.901052e-05 2.583817e-05 0.009389671  
## X6663077.27.G.T 5.263430e-05 -6.187949e-05 0.008733624  
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## X6650529.9.A.G 4.329154e-05 -5.329229e-05 0.008510638  
## X6651847.21.G.A -1.071094e-04 8.698405e-05 0.008849558  
## X6652313.42.C.T -1.125337e-04 3.919319e-05 0.012500000  
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## X6657176.29.T.G 3.976099e-05 -5.131582e-05 0.008695652  
## X6657326.12.G.A 8.406509e-05 -1.105403e-04 0.012903226  
## X6657353.6.A.G -4.739596e-05 -2.010557e-05 0.013215859  
## X6657411.13.G.A 1.152521e-05 -9.439483e-06 0.006802721  
## X6657545.31.T.C 2.462113e-04 -2.444616e-04 0.013698630  
## X6657603.29.G.A 4.525843e-05 -6.284709e-05 0.010204082  
## X6657689.26.G.A -3.023203e-04 2.448362e-04 0.012820513  
## X6657743.8.C.G 3.969442e-05 -4.925012e-05 0.008230453  
## X6657998.8.A.G 1.435948e-04 -2.375503e-04 0.017937220  
## X6658208.29.C.T NA NA NA  
## X6658287.13.A.G 5.111578e-05 -5.975446e-05 0.008510638  
## X6658348.17.A.T -3.822203e-05 1.363031e-05 0.008333333  
## X6658475.20.C.A -6.519540e-05 3.207740e-05 0.009090909  
## X6658498.16.G.A 1.067589e-05 -7.420136e-05 0.016129032  
## X6658580.46.G.C -1.358246e-04 1.097566e-04 0.008928571  
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## X6661799.23.C.T 9.176237e-07 -5.529985e-05 0.012765957  
## X6662617.41.T.G 4.037395e-05 -5.073845e-05 0.008438819  
## X6662633.33.G.C -1.758471e-05 1.428606e-05 0.004149378  
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## X6662843.9.A.G 4.329154e-05 -5.329229e-05 0.008510638  
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## X6662976.12.A.C 4.654566e-05 -5.623032e-05 0.008547009  
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## X100073899.13.T.C 2.132421e-04 -3.120235e-04 0.023529412  
## X100098800.29.G.T -4.904858e-05 1.389588e-05 0.010204082  
## X100100663.9.T.A -6.097695e-05 3.048079e-05 0.008695652  
## X6650431.37.G.A -3.820146e-05 3.111840e-05 0.005649718  
## X6656974.5.A.T 4.514435e-05 -5.398057e-05 0.008298755  
## X6657112.32.C.T -2.812135e-04 1.518249e-04 0.017391304  
## X6657945.33.T.A 4.409964e-05 -5.282862e-05 0.008230453  
## X6658433.38.T.A -1.583671e-05 1.288645e-05 0.004201681  
## X6664304.20.G.T 2.077859e-05 -3.462673e-05 0.008403361  
## X6664309.9.T.C 3.387655e-04 -3.934034e-04 0.017699115  
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## X100045177.15.A.G 3.312357e-04 -2.719503e-04 0.009090909  
## X100073820.20.A.G -5.806432e-05 4.706084e-05 0.007692308  
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## X100098455.12.T.G -5.985805e-05 2.976630e-05 0.008695652  
## X100098486.16.T.A -2.576095e-05 2.094190e-05 0.005181347  
## X100098772.34.A.T -5.296356e-05 2.601893e-05 0.008230453  
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## X6651055.18.T.C -1.331497e-04 -7.871646e-05 0.022222222  
## X100086270.5.G.C -3.198985e-04 1.240778e-02 0.018750000  
## X100112446.22.G.C 2.568193e-03 9.348191e-02 0.016949153  
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## X100021127.7.A.G -2.494714e-05 2.023450e-05 0.005076142  
## X6665873.25.A.G 3.702736e-04 -3.019324e-04 0.014492754  
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## X100023315.21.T.C -5.790306e-05 2.713830e-05 0.008928571  
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## X100021585.32.T.G -5.285456e-05 2.565252e-05 0.008298755  
## X100023219.12.A.G -1.401085e-05 -1.055835e-04 0.017621145  
## X6658683.43.C.T -2.151503e-04 8.976455e-05 0.018691589  
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## X100020119.15.A.G NA NA NA  
## X100022894.28.G.A -3.059425e-04 2.492140e-04 0.014492754  
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## X100021819.62.A.C -2.031792e-06 1.654346e-06 0.004291845  
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## X100064827.60.G.T -1.793096e-05 1.455020e-05 0.004255319  
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## X100066350.63.A.G -7.421506e-05 3.753135e-05 0.009523810  
## X100082653.31.C.G NA NA NA  
## X100019242.15.T.C -2.161423e-05 1.759324e-05 0.005747126  
## X100065918.65.C.T NA NA NA  
## X100082574.16.T.C NA NA NA  
## X100112503.22.T.C -1.805892e-05 1.467102e-05 0.004310345  
## X6651116.23.G.A NA NA NA  
## X6664424.11.C.T NA NA NA  
## X100017539.66.C.A 3.522295e-05 -4.997476e-05 0.009216590  
## X100019104.53.C.T 1.016021e-04 -8.284283e-05 0.004672897  
## X100020067.42.A.C -1.547277e-05 1.255395e-05 0.004132231  
## X100020868.41.A.G 4.292919e-05 -5.443358e-05 0.008810573  
## X100064882.50.T.C 7.654026e-06 -2.778889e-05 0.009259259  
## X6658317.12.A.T -1.520597e-05 1.234787e-05 0.004385965  
## X6661605.7.T.C NA NA NA  
## X6664288.12.C.T -5.503068e-05 4.506128e-05 0.006578947  
## X100016786.17.G.A -1.085732e-04 4.735637e-05 0.012658228  
## X100020956.6.T.C NA NA NA  
## X100016197.32.C.T NA NA NA  
## X100017640.9.C.G -2.652163e-05 2.153214e-05 0.004739336  
## X100018738.55.G.T -8.998141e-05 7.342840e-05 0.009900990  
## X6651375.43.G.A -4.083821e-05 1.476594e-05 0.008583691  
## X6651394.40.A.T -1.792809e-05 1.456876e-05 0.004166667  
## X6657692.30.G.C -2.103341e-05 1.705168e-05 0.004716981  
## X6661438.21.G.A 3.338145e-04 -2.710924e-04 0.008849558  
## X100015230.14.A.T 8.049389e-05 -6.550397e-05 0.004237288  
## X100015429.54.A.G 2.159673e-05 -3.560746e-05 0.008474576  
## X100016348.67.T.C -2.083498e-05 1.702070e-05 0.009803922  
## X100022665.32.G.A -9.966306e-05 2.696361e-05 0.012711864  
## X6650646.12.A.G NA NA NA  
## X6651058.8.C.T -1.613024e-05 1.310273e-05 0.004166667  
## X6652871.25.G.T -7.241143e-05 5.920242e-05 0.009259259  
## X6653284.49.A.G -5.875948e-05 2.830513e-05 0.008771930  
## X100020780.47.T.C -6.536472e-05 5.304217e-05 0.006944444  
## X100082291.18.C.T NA NA NA  
## X6657270.16.C.A -5.242010e-05 2.128851e-05 0.009216590  
## X6658306.32.A.G -3.914870e-05 3.173536e-05 0.005376344  
## X6663971.20.C.T 1.862741e-05 -3.395298e-05 0.008658009  
## X100018785.45.G.A -2.980680e-05 2.443804e-05 0.005154639  
## X100019578.24.A.G -4.141687e-05 1.542739e-05 0.008510638  
## X100021429.16.A.G -3.190488e-08 -5.897121e-05 0.013274336  
## X6651301.13.T.C NA NA NA  
## X6653801.25.T.C NA NA NA  
## X6662791.9.T.C 4.663298e-05 -5.757734e-05 0.008849558  
## X6665675.15.G.A -1.838708e-05 1.497158e-05 0.004484305  
## X6665677.34.G.A -1.565114e-05 1.263465e-05 0.004739336  
## X6651053.25.C.T -3.521976e-06 2.894775e-06 0.006802721  
## X6651062.23.G.C -1.685723e-05 1.366845e-05 0.004201681  
## X6657266.49.A.G 3.574492e-05 -4.829391e-05 0.008771930  
## X6661781.11.G.A NA NA NA  
## X6662884.20.G.A -3.183524e-05 2.576788e-05 0.005050505  
## X6661633.24.T.C NA NA NA  
## X100064957.57.C.G -3.174777e-05 2.566819e-05 0.005154639  
## X6650480.42.G.T -4.089270e-05 1.566619e-05 0.008368201  
## X6651168.20.T.C -7.489121e-05 3.803766e-05 0.009478673  
## X6651202.6.G.T -1.880406e-05 1.534684e-05 0.005524862  
## X6651669.51.A.T -1.512402e-05 1.228572e-05 0.004115226  
## X6651901.52.A.G -3.133260e-06 2.543753e-06 0.004166667  
## X6652133.6.G.A 1.849959e-04 -1.496817e-04 0.007751938  
## X6652277.34.G.T NA NA NA  
## X6652429.23.C.A NA NA NA  
## X6652852.41.C.T 1.130834e-04 -9.175843e-05 0.004504505  
## X6653859.66.G.C NA NA NA  
## X6657107.30.C.T -2.020259e-05 1.644159e-05 0.004366812  
## X6657341.14.T.G NA NA NA  
## X6657827.41.T.C -1.713131e-05 1.395570e-05 0.004424779  
## X6657863.36.T.C -5.752486e-05 4.572892e-05 0.012987013  
## X6657972.11.T.G -1.701406e-05 1.383678e-05 0.004310345  
## X6658332.28.G.A NA NA NA  
## X6661576.17.T.C NA NA NA  
## X6662852.8.G.C NA NA NA  
## X6665753.18.G.A -2.579979e-04 2.091875e-04 0.013513514  
## X6665974.16.T.A -2.393976e-05 1.946139e-05 0.005181347  
## X6665974.39.G.C -2.293867e-05 1.860308e-05 0.004444444  
## X100022319.61.G.T -2.203293e-05 1.790190e-05 0.005102041  
## X100066473.44.C.T -1.755427e-04 1.387436e-04 0.010526316  
## X6650457.59.C.T NA NA NA  
## X6650512.39.G.A 6.802547e-07 -5.534696e-07 0.004464286  
## X6650541.48.T.C NA NA NA  
## X6650816.44.C.T NA NA NA  
## X6651070.58.A.C NA NA NA  
## X6651408.58.C.G NA NA NA  
## X6651681.14.C.T NA NA NA  
## X6651690.41.A.G NA NA NA  
## X6651751.52.A.G -1.518426e-05 1.232742e-05 0.004166667  
## X6651951.29.T.C NA NA NA  
## X6652480.24.G.A 9.470505e-05 -1.376468e-04 0.013452915  
## X6652536.25.A.G NA NA NA  
## X6653136.38.A.G -2.220396e-05 1.802581e-05 0.004830918  
## X6653193.66.G.C NA NA NA  
## X6653366.47.T.C NA NA NA  
## X6653406.51.T.C -5.325176e-06 4.336814e-06 0.004385965  
## X6653654.13.A.G NA NA NA  
## X6653743.54.T.C -5.444799e-05 2.655490e-05 0.008403361  
## X6653795.65.G.T NA NA NA  
## X6656968.20.T.C 4.081138e-07 -3.302674e-07 0.004739336  
## X6657138.49.C.T 1.336352e-04 -1.089001e-04 0.009009009  
## X6657141.6.G.A -9.789255e-05 7.920569e-05 0.007751938  
## X6657590.27.T.C -7.753243e-05 6.335159e-05 0.008196721  
## X6657970.16.C.G NA NA NA  
## X6658518.17.G.A NA NA NA  
## X6658664.15.C.A 8.062158e-05 -8.762474e-05 0.009433962  
## X6661383.36.A.G -3.176644e-05 2.573398e-05 0.005102041  
## X6661406.53.T.C NA NA NA  
## X6661709.47.A.C -1.690590e-05 1.373321e-05 0.004115226  
## X6661820.30.C.T 8.987680e-05 -7.314497e-05 0.004366812  
## X6661892.24.C.T 4.638827e-05 -5.484093e-05 0.008264463  
## X6662654.9.C.A -1.059561e-04 8.298397e-03 0.008298755  
## X6662663.5.A.T NA NA NA  
## X6663104.29.A.G -5.017536e-05 1.832379e-05 0.009433962  
## X6664717.21.A.G -5.964380e-06 4.820625e-06 0.004716981  
## X6665800.40.A.C NA NA NA  
## X6665804.30.T.C NA NA NA  
## X100018586.15.A.G NA NA NA  
## X100045576.29.G.A NA NA NA  
## X100064632.55.G.A 4.558665e-05 -5.701822e-05 0.008928571  
## X100124805.23.T.C NA NA NA  
## X6650420.21.G.A NA NA NA  
## X6650787.62.C.A NA NA NA  
## X6650795.22.T.C -1.805892e-05 1.467102e-05 0.004310345  
## X6651016.52.G.A -1.510944e-05 1.226608e-05 0.005154639  
## X6651805.15.A.G NA NA NA  
## X6652208.23.C.T -1.695769e-05 1.375796e-05 0.004255319  
## X6652257.65.G.T NA NA NA  
## X6652383.57.G.C NA NA NA  
## X6652388.11.A.G NA NA NA  
## X6652788.54.A.G NA NA NA  
## X6652943.57.G.A NA NA NA  
## X6653199.35.A.C NA NA NA  
## X6653447.32.A.G -6.699243e-06 5.430651e-06 0.005376344  
## X6653467.25.G.A -1.747404e-05 1.422475e-05 0.004385965  
## X6653565.10.G.C NA NA NA  
## X6653569.24.A.T -1.512402e-05 1.228572e-05 0.004115226  
## X6654084.42.A.G -2.088179e-05 1.699235e-05 0.004545455  
## X6656901.37.A.C NA NA NA  
## X6656919.48.T.A -1.714825e-05 1.395786e-05 0.004219409  
## X6656965.28.C.T -8.244543e-07 6.641553e-07 0.005988024  
## X6657179.25.G.A -1.747404e-05 1.422475e-05 0.004385965  
## X6657434.21.C.A -1.547277e-05 1.255395e-05 0.004132231  
## X6657454.17.T.C NA NA NA  
## X6657477.8.A.G 8.146904e-05 -6.601319e-05 0.004484305  
## X6657523.10.C.T -1.695080e-05 1.390140e-05 0.009708738  
## X6657578.8.C.T -1.613024e-05 1.310273e-05 0.004166667  
## X6657628.10.A.G -2.253040e-05 1.826532e-05 0.004975124  
## X6657698.41.A.G 4.026249e-05 -5.226308e-05 0.008810573  
## X6657753.24.G.A NA NA NA  
## X6657784.15.C.G -1.888296e-06 1.532958e-06 0.004184100  
## X6657818.27.A.G -1.626288e-04 1.276466e-04 0.012048193  
## X6657821.26.T.C -1.844000e-04 1.447348e-04 0.012048193  
## X6657854.14.G.A -5.874027e-05 2.382465e-05 0.009756098  
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## X6657923.13.T.C NA NA NA  
## X6657975.18.C.G -3.192425e-05 2.602134e-05 0.005291005  
## X6658063.26.T.C NA NA NA  
## X6658152.11.T.C -6.398315e-05 3.178722e-05 0.008968610  
## X6658175.49.T.C 3.673289e-05 -2.989722e-05 0.006451613  
## X6658353.18.G.T -8.373637e-05 6.750839e-05 0.007692308  
## X6658417.35.C.A NA NA NA  
## X6658431.14.A.G -1.762325e-05 1.433725e-05 0.004504505  
## X6658485.8.A.G NA NA NA  
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## X6661853.33.G.A -1.993046e-05 1.626627e-05 0.004504505  
## X6662682.18.G.C -1.307913e-04 6.955590e-05 0.012048193  
## X6662708.45.C.A -1.893834e-05 1.532144e-05 0.004504505  
## X6662717.10.T.A -1.545709e-05 1.255395e-05 0.004132231  
## X6662720.17.G.A -2.739517e-05 2.212067e-05 0.006329114  
## X6663956.7.C.T 1.492366e-04 -1.214064e-04 0.005050505  
## X6664324.31.T.C NA NA NA  
## X6664897.36.T.G -1.522610e-05 1.235630e-05 0.004219409  
## X6664904.21.A.G -2.109741e-05 1.705168e-05 0.004716981  
## X6665135.35.C.T NA NA NA  
## X6665977.58.C.T -6.019085e-05 4.796340e-05 0.006250000  
## X100062054.9.T.G NA NA NA  
## X100066053.65.C.G NA NA NA  
## X100073867.18.T.C -1.136018e-04 6.068394e-05 0.011111111  
## X100098449.11.T.C -1.842639e-05 1.497158e-05 0.004484305  
## X100102329.39.G.C -1.517413e-05 1.230610e-05 0.004444444  
## X100104849.27.A.C 4.682196e-05 -5.504005e-05 0.008230453  
## X100118311.8.T.G NA NA NA  
## X6651728.12.T.C 5.800786e-04 -4.921588e-04 0.009009009  
## X6651869.31.G.A NA NA NA  
## X6651992.39.T.C NA NA NA  
## X6652070.15.A.G -1.174826e-04 9.645527e-05 0.009090909  
## X6652698.58.A.G -2.216455e-05 1.793975e-05 0.004651163  
## X6653498.29.C.G -2.763952e-05 2.241451e-05 0.004784689  
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## X6656988.16.A.T -8.398551e-05 6.791791e-05 0.007812500  
## X6657054.5.A.G -1.134301e-04 9.319664e-05 0.009009009  
## X6657255.43.C.T -1.054325e-04 8.719420e-05 0.009345794  
## X6657257.18.T.G -2.184580e-05 1.790190e-05 0.005102041  
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## X6657486.25.A.G NA NA NA  
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## X6657762.30.T.G -1.512402e-05 1.228572e-05 0.004115226  
## X6658275.5.T.C -1.837625e-05 1.493150e-05 0.005617978  
## X6658351.8.T.A 4.456361e-05 -5.399037e-05 0.008403361  
## X6658356.40.T.A NA NA NA  
## X6662713.37.C.T -9.216361e-05 4.520386e-05 0.010928962  
## X6662735.7.T.C -5.384171e-05 4.387720e-05 0.006535948  
## X6662802.35.T.C NA NA NA  
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## X6664286.5.A.G 7.309942e-05 -6.006006e-05 0.009009009  
## X6664411.22.G.A NA NA NA  
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## X100020566.50.G.A -5.296356e-05 2.601893e-05 0.008230453  
## X100073416.9.G.C -1.477053e-05 1.198199e-05 0.004424779  
## X100073555.13.T.C NA NA NA  
## X100073946.24.C.A -2.575406e-05 2.104377e-05 0.005050505  
## X100082262.34.C.T -2.043485e-05 1.663160e-05 0.004424779  
## X100082279.42.T.G NA NA NA  
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## X100093556.10.T.A -1.636855e-05 1.329422e-05 0.004132231  
## X100093571.9.A.T -1.690590e-05 1.373321e-05 0.004115226  
## X100093658.5.T.C -4.281965e-05 3.479283e-05 0.005617978  
## X100102354.38.T.G -1.827319e-05 1.485329e-05 0.004273504  
## X100102368.8.T.C -2.048493e-05 1.653439e-05 0.004629630  
## X100108745.39.G.C -2.293867e-05 1.860308e-05 0.004444444  
## X100124806.24.A.G NA NA NA  
## X6652013.36.G.A NA NA NA  
## X100019613.42.A.G -1.970986e-05 1.603870e-05 0.004545455  
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## X100022307.64.C.T -2.052539e-05 1.662633e-05 0.004524887  
## X6661279.61.A.G -1.265054e-05 1.028383e-05 0.004524887  
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## X100021551.26.C.G NA NA NA  
## X6651509.9.T.C NA NA NA  
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## X100022444.19.C.T -1.481428e-04 1.207372e-04 0.010526316  
## X100065978.51.A.C NA NA NA  
## X100015971.32.G.A 1.869940e-05 -3.323937e-05 0.008474576  
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## X6652371.36.A.G NA NA NA  
## X100016955.21.T.C 4.653417e-05 -5.791766e-05 0.008928571  
## X100017267.60.T.C NA NA NA  
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## X100018216.18.C.T NA NA NA  
## X100018585.65.G.A NA NA NA  
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## X100019458.6.T.C NA NA NA  
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## X100065288.30.C.T NA NA NA  
## X6657675.5.C.T -2.314614e-06 1.903312e-06 0.006756757  
## X100018006.38.A.G -5.709174e-05 2.289765e-05 0.009661836  
## X100018907.18.T.C -1.136018e-04 6.068394e-05 0.011111111  
## X100018908.67.C.T -5.528111e-06 4.488774e-06 0.005988024  
## X100019522.42.C.T 4.549952e-05 -5.442671e-05 0.008333333  
## X100021552.23.G.T -1.596042e-05 1.296918e-05 0.004310345  
## X100021990.59.T.C -2.548131e-05 2.067916e-05 0.004694836  
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## X6661494.35.T.C NA NA NA  
## X6661600.20.T.C NA NA NA  
## X100023675.41.A.G -4.428715e-05 1.655402e-05 0.008810573  
## X100064707.39.C.T NA NA NA  
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## X100111975.14.G.C 2.492077e-03 2.222108e-02 0.018750000  
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## X100017875.29.A.G -2.485411e-05 2.015021e-05 0.004716981  
## X100019456.25.T.C -1.182876e-04 5.833313e-05 0.012269939  
## X100019962.30.A.G NA NA NA  
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## X6651172.33.A.G -2.656593e-05 2.158996e-05 0.004694836  
## X100015703.20.A.G 3.231661e-04 -2.619245e-04 0.007692308  
## X6653988.60.A.T -1.882265e-05 1.530399e-05 0.004347826  
## X100018373.30.C.T -1.816408e-05 1.478258e-05 0.004366812  
## X100020483.16.G.A 2.227325e-04 -1.801779e-04 0.008064516  
## X100022388.34.C.T 3.529652e-05 -4.839295e-05 0.008849558  
## X100022854.43.G.T -1.690590e-05 1.373321e-05 0.004115226  
## X100023104.56.C.T NA NA NA  
## X100023409.22.T.C -5.699144e-05 2.764020e-05 0.008620690  
## X100086339.36.T.G -1.813157e-05 1.471415e-05 0.004219409  
## X6651925.23.G.C NA NA NA  
## X100120327.18.G.A NA NA NA  
## X100120327.6.G.A 9.374790e-07 -6.132054e-05 0.015503876  
## X100016290.59.A.C -2.200173e-05 1.790126e-05 0.006289308  
## X100020594.60.T.A -1.612263e-05 1.310273e-05 0.004166667  
## X100022242.47.G.T NA NA NA  
## X100022320.10.T.C -2.212929e-05 1.797994e-05 0.004366812  
## X100022502.23.T.A -1.544861e-05 1.255395e-05 0.004132231  
## X6651745.39.T.C -6.441057e-05 5.234177e-05 0.008196721  
## X6661848.25.T.G -7.694855e-06 6.279075e-06 0.004608295  
## X100016236.36.G.T -7.973266e-05 3.408581e-05 0.011111111  
## X100016349.39.A.G 2.736623e-05 -4.165873e-05 0.008810573  
## X100016910.15.T.A 2.994809e-04 -3.202944e-04 0.017241379  
## X100020122.19.C.G -2.652163e-05 2.153214e-05 0.004739336  
## X100021092.17.T.C 1.115545e-04 -1.373678e-04 0.013605442  
## X100022165.12.A.G -1.437083e-05 1.166317e-05 0.004405286  
## X100023470.59.G.A -5.980923e-05 2.906658e-05 0.008810573  
## X6661692.56.G.A NA NA NA  
## X100016458.65.C.G NA NA NA  
## X100018964.48.T.G NA NA NA  
## X100021554.25.A.G -1.974792e-04 1.610306e-04 0.014492754  
## X100023185.19.T.G NA NA NA  
## X6650701.18.A.G NA NA NA  
## X6652394.37.T.C NA NA NA  
## X6653506.13.T.A NA NA NA  
## X6664058.35.C.T NA NA NA  
## X100016479.45.A.T NA NA NA  
## X100017508.19.C.G NA NA NA  
## X100018962.16.T.C NA NA NA  
## X100022682.11.A.T NA NA NA  
## X100066335.57.A.T NA NA NA  
## X100082668.8.A.T -2.170340e-05 1.764540e-05 0.004347826  
## X6658494.15.A.G NA NA NA  
## X100015625.54.A.G NA NA NA  
## X100016249.62.A.C 1.781671e-05 -3.300623e-05 0.008583691  
## X100016393.18.A.T -2.298153e-05 1.866493e-05 0.004405286  
## X100016660.55.C.T NA NA NA  
## X100017075.58.G.A NA NA NA  
## X100017124.8.A.G -4.927831e-05 1.972993e-05 0.008968610  
## X100017541.11.T.A -1.739272e-05 1.413323e-05 0.004184100  
## X100018026.11.T.C -2.069598e-05 1.681564e-05 0.004484305  
## X100019630.31.T.C NA NA NA  
## X100019855.44.T.C -1.832232e-05 1.485576e-05 0.004184100  
## X100019873.44.G.A NA NA NA  
## X100019915.44.G.T NA NA NA  
## X100022465.65.C.G NA NA NA  
## X100022648.51.G.A NA NA NA  
## X100044512.21.C.T -2.776304e-05 2.261113e-05 0.005128205  
## X6650696.57.G.A NA NA NA  
## X6653452.20.G.A NA NA NA  
## X100015340.55.T.G -2.188221e-05 1.780535e-05 0.004444444  
## X100017500.23.A.C -1.383544e-05 1.125008e-05 0.004444444  
## X100020588.47.C.A NA NA NA  
## X100022422.51.G.T NA NA NA  
## X100022425.5.T.C NA NA NA  
## X100023388.34.C.A NA NA NA  
## X100023484.57.G.A NA NA NA  
## X100023525.29.A.G -2.103225e-05 1.705168e-05 0.004716981  
## X100064648.32.T.C -1.680726e-05 1.366845e-05 0.004201681  
## X100065646.5.C.A -1.765090e-05 1.428882e-05 0.004444444  
## X100073396.12.C.T NA NA NA  
## X100073814.33.T.C -2.085598e-05 1.697693e-05 0.004444444  
## X6650655.58.G.A NA NA NA  
## X6651105.51.A.C NA NA NA  
## X6651192.9.A.G NA NA NA  
## X6652274.53.T.C NA NA NA  
## X6652608.18.G.C NA NA NA  
## X6652649.33.C.G NA NA NA  
## X6653266.5.T.A NA NA NA  
## X6661462.57.A.G NA NA NA  
## X100016352.41.C.T NA NA NA  
## X100016515.37.T.A NA NA NA  
## X100016629.18.T.C 4.849513e-05 -7.019095e-05 0.011111111  
## X100017186.6.T.C -1.754951e-04 1.384275e-04 0.011627907  
## X100018441.46.A.T NA NA NA  
## X100019819.59.T.G -1.559741e-05 1.266756e-05 0.004291845  
## X100021768.16.G.T -2.194895e-05 1.811152e-05 0.006622517  
## X100022658.14.G.A -2.470813e-05 2.007964e-05 0.004878049  
## X100022749.22.C.T NA NA NA  
## X100023505.21.C.G -1.325182e-06 1.076642e-06 0.004149378  
## X100064613.60.T.C -1.948409e-05 1.591205e-05 0.004484305  
## X6650443.20.C.T NA NA NA  
## X6650647.27.A.C NA NA NA  
## X6650672.16.T.C NA NA NA  
## X6650875.47.G.A 8.722876e-05 -9.357575e-05 0.009478673  
## X6652044.30.A.G NA NA NA  
## X6652814.39.C.T NA NA NA  
## X6653050.59.G.T NA NA NA  
## X6653245.23.A.G NA NA NA  
## X6653382.37.T.C NA NA NA  
## X100015237.28.T.A NA NA NA  
## X100016165.7.G.A 8.131751e-05 -6.615107e-05 0.004694836  
## X100017157.49.G.A NA NA NA  
## X100017486.22.T.G -2.034936e-06 1.654346e-06 0.004291845  
## X100019175.10.C.G NA NA NA  
## X100019665.26.G.A NA NA NA  
## X100020841.64.T.C -6.033217e-05 2.322394e-05 0.010152284  
## X100120329.23.A.G 5.530565e-05 -6.461032e-05 0.008888889  
## X6650705.36.C.T NA NA NA  
## X6651136.7.G.C NA NA NA  
## X6651295.17.C.T NA NA NA  
## X6651888.7.A.G NA NA NA  
## X6652092.41.A.G -3.222431e-07 2.622819e-07 0.004405286  
## X6652390.29.T.C NA NA NA  
## X6653344.40.A.G NA NA NA  
## X100017290.62.G.T NA NA NA  
## X100017981.57.C.T NA NA NA  
## X100018180.55.T.C -5.244591e-05 6.660711e-06 0.011976048  
## X100018460.39.T.G -5.545479e-05 2.746055e-05 0.008368201  
## X100018667.65.G.A -3.292217e-05 2.685285e-05 0.005102041  
## X100019573.61.A.C NA NA NA  
## X100020403.29.G.T 1.441568e-05 -3.793825e-05 0.010204082  
## X100023540.56.T.G NA NA NA  
## X100065318.8.A.G NA NA NA  
## X100066600.5.T.C NA NA NA  
## X100066622.14.T.C -2.812543e-05 2.289797e-05 0.004716981  
## X100086014.36.T.C -2.876243e-04 2.286446e-04 0.012987013  
## X100098840.27.G.A -3.228626e-05 2.626050e-05 0.006250000  
## X6650711.25.C.A NA NA NA  
## X6651249.51.G.C NA NA NA  
## X6653001.20.G.A NA NA NA  
## X6653114.14.T.A -2.565197e-06 2.084459e-06 0.004132231  
## X6653811.17.T.C NA NA NA  
## X6661187.29.A.C NA NA NA  
## X100015694.44.A.T 5.960312e-05 -4.835945e-05 0.004132231  
## X100016554.8.A.G 1.878486e-04 -2.128098e-04 0.013452915  
## X100017386.12.G.A -3.065489e-05 2.503247e-05 0.006451613  
## X100017844.43.G.A -6.996457e-06 -4.979895e-05 0.012875536  
## X100020562.42.C.G NA NA NA  
## X100021051.67.G.T -2.035585e-06 1.654346e-06 0.004291845  
## X100065266.5.T.C NA NA NA  
## X6650693.44.C.T NA NA NA  
## X6651276.7.A.G -2.962919e-05 2.403209e-05 0.005076142  
## X6651724.68.A.G NA NA NA  
## X6652175.66.T.C NA NA NA  
## X6652356.17.A.G NA NA NA  
## X6653008.30.C.G NA NA NA  
## X6653473.47.C.T NA NA NA  
## X6653869.47.T.G NA NA NA  
## X6654016.14.A.G NA NA NA  
## X6664729.22.C.T 4.231456e-05 -5.515448e-05 0.009174312  
## X6661750.65.G.A NA NA NA  
## X100016089.30.C.T NA NA NA  
## X100017364.16.A.G NA NA NA  
## X100017568.38.A.G 6.436993e-05 -7.570841e-05 0.009661836  
## X100017636.20.G.A -3.183524e-05 2.576788e-05 0.005050505  
## X100018230.62.T.C NA NA NA  
## X100020647.25.G.A 4.873094e-05 -5.899088e-05 0.008771930  
## X100023048.6.T.C NA NA NA  
## X100023313.65.G.T -9.326593e-05 7.625272e-05 0.009259259  
## X100023842.66.T.C NA NA NA  
## X6650662.57.T.A NA NA NA  
## X6650857.56.T.C NA NA NA  
## X6650871.15.T.G NA NA NA  
## X6652354.41.T.G -1.518195e-05 1.235630e-05 0.004219409  
## X6652712.18.A.G NA NA NA  
## X6652897.32.G.A -1.132598e-06 9.211496e-07 0.004237288  
## X6653119.17.A.G NA NA NA  
## X6653277.45.G.C NA NA NA  
## X6653413.34.C.T NA NA NA  
## X6653686.19.A.G NA NA NA  
## X6653906.8.T.C NA NA NA  
## X6656936.12.G.A NA NA NA  
## X6658216.16.T.C NA NA NA  
## X6661637.61.A.T NA NA NA  
## X6664071.59.C.T NA NA NA  
## X6652420.13.T.G NA NA NA  
## X100017654.43.G.C -1.512402e-05 1.228572e-05 0.004115226  
## X100021742.38.C.A NA NA NA  
## X100044665.10.T.G 4.465507e-05 -5.399037e-05 0.008403361  
## X100064985.48.C.T NA NA NA  
## X100065246.12.A.G -2.108544e-05 1.711266e-05 0.004405286  
## X100066557.28.C.T NA NA NA  
## X100082397.38.C.A NA NA NA  
## X6650620.8.A.G NA NA NA  
## X6650692.56.G.A -7.207870e-05 5.775006e-05 0.008547009  
## X6650978.6.G.A -6.620905e-05 5.357030e-05 0.007751938  
## X6651221.15.T.C NA NA NA  
## X6651235.33.A.G NA NA NA  
## X6651703.33.T.C NA NA NA  
## X6651891.44.T.C NA NA NA  
## X6652170.11.A.G -8.011496e-05 2.858776e-05 0.012121212  
## X6652463.46.A.C 1.025190e-04 -8.380634e-05 0.005025126  
## X6652496.43.C.T NA NA NA  
## X6653226.65.A.G NA NA NA  
## X6653778.39.T.A -2.194428e-05 1.780535e-05 0.004444444  
## X6654074.20.G.T NA NA NA  
## X6658572.16.A.G -1.722864e-05 1.395570e-05 0.004424779  
## X6661139.49.C.A NA NA NA  
## X6661309.12.G.A NA NA NA  
## X6661345.40.C.G -1.483865e-05 1.207380e-05 0.004201681  
## X6662659.12.A.C -1.625349e-05 1.323066e-05 0.004273504  
## X100120331.53.T.G 4.599448e-05 -5.463653e-05 0.008298755  
## X100020242.53.A.G NA NA NA  
## X100021807.31.T.C NA NA NA  
## X100065925.36.C.T NA NA NA  
## X100066073.6.T.C -2.593428e-04 2.045650e-04 0.011627907  
## X100102122.31.C.A -1.512402e-05 1.228572e-05 0.004115226  
## X6650428.57.G.T NA NA NA  
## X6652370.62.G.A NA NA NA  
## X6653373.60.G.T NA NA NA  
## X6653417.48.C.G -1.596442e-05 1.298814e-05 0.004366812  
## X6653777.46.G.T NA NA NA  
## X6653792.53.C.A -1.740326e-05 1.413323e-05 0.004184100  
## X6654058.18.T.C -2.244472e-05 1.812157e-05 0.005555556  
## X6661147.26.G.C NA NA NA  
## X6661226.53.C.T NA NA NA  
## X6661658.19.C.T NA NA NA  
## X6661670.43.T.C NA NA NA  
## X6663906.23.C.T NA NA NA  
## X6664040.9.G.T -2.795427e-05 2.282126e-05 0.005076142  
## X100017806.36.A.G -3.176644e-05 2.573398e-05 0.005102041  
## X100019553.65.G.A -9.145048e-06 7.459124e-06 0.005102041  
## X100020150.48.T.C NA NA NA  
## X100022824.15.T.C -2.161423e-05 1.759324e-05 0.005747126  
## X100045255.15.T.C NA NA NA  
## X100064683.52.A.G -1.794503e-05 1.456876e-05 0.004166667  
## X100065044.38.G.T NA NA NA  
## X100065331.11.A.G NA NA NA  
## X100082376.10.G.T NA NA NA  
## X100114017.32.T.C NA NA NA  
## X6650513.52.C.T -2.900507e-05 2.369687e-05 0.005917160  
## X6650793.26.A.C NA NA NA  
## X6650805.11.A.G NA NA NA  
## X6650968.18.A.T NA NA NA  
## X6651099.28.A.G NA NA NA  
## X6651150.45.T.C NA NA NA  
## X6651383.67.T.G NA NA NA  
## X6651541.66.T.C NA NA NA  
## X6651588.49.C.T 1.710936e-04 -1.394251e-04 0.009009009  
## X6651711.11.A.G NA NA NA  
## X6651715.59.C.G NA NA NA  
## X6651731.68.G.T NA NA NA  
## X6652027.41.G.A -1.704056e-05 1.384932e-05 0.004166667  
## X6652109.27.A.G -1.626288e-04 1.276466e-04 0.012048193  
## X6652130.35.T.C NA NA NA  
## X6652152.19.T.G NA NA NA  
## X6652278.43.G.C -1.690590e-05 1.373321e-05 0.004115226  
## X6652658.29.A.T NA NA NA  
## X6652840.16.G.A -1.037956e-04 8.396470e-05 0.008064516  
## X6652867.64.C.T NA NA NA  
## X6652883.26.G.C NA NA NA  
## X6653149.58.C.T -4.831889e-05 3.850316e-05 0.006250000  
## X6653187.24.G.T NA NA NA  
## X6653229.41.A.G NA NA NA  
## X6653591.11.G.C NA NA NA  
## X6653796.8.T.C -2.048493e-05 1.653439e-05 0.004629630  
## X6653829.21.C.A NA NA NA  
## X6653872.47.G.T NA NA NA  
## X6653967.40.G.A NA NA NA  
## X6657086.36.C.A NA NA NA  
## X6657671.40.C.T NA NA NA  
## X6657902.21.T.C NA NA NA  
## X6661102.10.A.G NA NA NA  
## X6661477.67.A.G NA NA NA  
## X6661483.14.G.C 1.350951e-04 -1.101577e-04 0.006250000  
## X6661530.26.C.G -1.345216e-05 1.090379e-05 0.004716981  
## X6661560.54.A.G NA NA NA  
## X6661564.45.T.A NA NA NA  
## X6662672.28.C.A NA NA NA  
## X6664046.51.T.C -8.625470e-05 8.842176e-03 0.000000000  
## X6664055.23.C.T NA NA NA  
## X100120332.58.C.A 4.596707e-05 -5.463653e-05 0.008298755  
## X100120330.33.G.T 4.930755e-05 -5.752794e-05 0.008333333  
## X100015220.59.C.A NA NA NA  
## X100016151.11.T.C -7.133817e-06 5.796280e-06 0.004484305  
## X100016562.12.G.A -1.040516e-04 4.307390e-05 0.012903226  
## X100016798.34.C.T NA NA NA  
## X100021467.36.G.A NA NA NA  
## X100065538.21.A.T 1.021925e-04 -8.323120e-05 0.004784689  
## X100065912.28.G.A 3.851024e-05 -3.136960e-05 0.014492754  
## X100098480.21.A.C NA NA NA  
## X6650742.33.G.A -1.993046e-05 1.626627e-05 0.004504505  
## X6650889.38.G.T NA NA NA  
## X6651263.53.A.C NA NA NA  
## X6651318.7.C.T NA NA NA  
## X6651340.27.C.T NA NA NA  
## X6651392.24.C.T -1.544926e-05 1.255395e-05 0.004132231  
## X6651403.11.C.A NA NA NA  
## X6651475.6.A.G NA NA NA  
## X6651645.50.G.A NA NA NA  
## X6651662.13.T.A NA NA NA  
## X6651726.49.G.A NA NA NA  
## X6651740.27.G.A NA NA NA  
## X6651858.23.A.G -1.765176e-05 1.428882e-05 0.004444444  
## X6651880.60.C.T NA NA NA  
## X6651889.58.T.C NA NA NA  
## X6651919.45.G.T NA NA NA  
## X6652026.29.G.T NA NA NA  
## X6652151.12.T.C NA NA NA  
## X6652259.45.G.T NA NA NA  
## X6652382.40.G.A 7.698043e-05 -8.164584e-05 0.008733624  
## X6652492.21.C.T NA NA NA  
## X6652504.25.A.G NA NA NA  
## X6652541.50.A.G NA NA NA  
## X6652568.29.G.T NA NA NA  
## X6652593.5.G.T NA NA NA  
## X6652667.36.T.C NA NA NA  
## X6652794.64.C.T NA NA NA  
## X6652856.20.T.A NA NA NA  
## X6653235.13.T.G NA NA NA  
## X6653395.26.G.A NA NA NA  
## X6653420.50.G.A NA NA NA  
## X6653458.58.C.T NA NA NA  
## X6653463.23.A.G 1.143416e-04 -1.123990e-04 0.008888889  
## X6653479.25.T.C NA NA NA  
## X6653599.33.C.T NA NA NA  
## X6653745.15.T.C 1.551791e-04 -1.263105e-04 0.005747126  
## X6653871.33.G.A NA NA NA  
## X6653881.45.G.A NA NA NA  
## X6657644.31.G.T NA NA NA  
## X6657994.16.G.A NA NA NA  
## X6658139.28.G.A NA NA NA  
## X6658379.30.A.G -8.914011e-06 7.240306e-06 0.004975124  
## X6658529.38.A.G -2.220396e-05 1.802581e-05 0.004830918  
## X6658559.22.T.G NA NA NA  
## X6658652.28.T.C -2.375712e-05 1.917640e-05 0.004830918  
## X6658660.28.C.G NA NA NA  
## X6661093.40.C.A NA NA NA  
## X6661130.16.T.C NA NA NA  
## X6661369.40.T.C NA NA NA  
## X6661393.35.C.A -1.727479e-05 1.399193e-05 0.004484305  
## X6661665.50.T.C NA NA NA  
## X6661672.7.G.A NA NA NA  
## X6661712.36.C.T -4.732440e-05 3.850316e-05 0.006250000  
## X6663057.27.A.C -1.512402e-05 1.228572e-05 0.004115226  
## X6663982.51.T.G NA NA NA  
## X6665517.21.A.T 6.886471e-05 -7.909054e-05 0.009569378  
## X6665665.51.T.C -2.156368e-05 1.756142e-05 0.004385965  
## X6665807.65.G.A NA NA NA  
## X100104824.10.C.A 6.792031e-05 -8.001948e-05 0.009950249  
## X100020394.66.C.G NA NA NA  
## X100020441.43.A.C 8.090690e-05 -6.613757e-05 0.004761905  
## X100021095.9.T.C NA NA NA  
## X100021324.61.A.G NA NA NA  
## X100044982.27.T.C NA NA NA  
## X6633176.7.T.C NA NA NA  
## X6650394.45.T.C NA NA NA  
## X6650524.64.C.A NA NA NA  
## X6650526.41.A.C NA NA NA  
## X6650616.12.C.T NA NA NA  
## X6650617.39.T.G NA NA NA  
## X6650695.29.G.A NA NA NA  
## X6650768.33.C.T -1.611571e-05 1.310273e-05 0.004166667  
## X6650776.41.A.G NA NA NA  
## X6650824.6.C.G NA NA NA  
## X6650856.61.G.C -2.345181e-06 1.907232e-06 0.004310345  
## X6650931.6.C.T NA NA NA  
## X6650932.50.A.G -1.586090e-05 1.288645e-05 0.004201681  
## X6650935.64.T.C NA NA NA  
## X6650950.61.A.C NA NA NA  
## X6650971.13.G.A NA NA NA  
## X6651076.54.T.C NA NA NA  
## X6651094.7.C.T NA NA NA  
## X6651112.44.A.C NA NA NA  
## X6651140.51.A.G NA NA NA  
## X6651141.28.C.T NA NA NA  
## X6651166.8.G.A NA NA NA  
## X6651232.36.T.A NA NA NA  
## X6651234.42.A.T NA NA NA  
## X6651248.33.A.T NA NA NA  
## X6651256.30.A.G -8.914011e-06 7.240306e-06 0.004975124  
## X6651296.34.G.A NA NA NA  
## X6651362.29.A.G NA NA NA  
## X6651505.25.A.G -3.596943e-04 2.933057e-04 0.014492754  
## X6651536.18.C.T NA NA NA  
## X6651549.18.T.C NA NA NA  
## X6651584.29.A.G NA NA NA  
## X6651585.28.G.A NA NA NA  
## X6651603.27.G.A NA NA NA  
## X6651650.53.C.T -1.409693e-05 1.149416e-05 0.004672897  
## X6651682.41.G.A NA NA NA  
## X6651722.21.T.C NA NA NA  
## X6651790.34.A.C NA NA NA  
## X6651836.41.C.A NA NA NA  
## X6651920.32.T.A NA NA NA  
## X6651945.47.T.C NA NA NA  
## X6651948.51.G.A NA NA NA  
## X6651949.50.A.C -1.956406e-05 1.586216e-05 0.004651163  
## X6651978.13.T.C NA NA NA  
## X6651988.28.A.T NA NA NA  
## X6651995.36.G.C NA NA NA  
## X6651996.46.A.G NA NA NA  
## X6652021.23.A.T NA NA NA  
## X6652050.59.T.C NA NA NA  
## X6652102.5.C.T NA NA NA  
## X6652139.9.C.G NA NA NA  
## X6652157.32.T.A NA NA NA  
## X6652164.29.T.C NA NA NA  
## X6652198.12.T.A -1.512402e-05 1.228572e-05 0.004115226  
## X6652209.23.C.G NA NA NA  
## X6652232.10.G.A NA NA NA  
## X6652236.58.T.C NA NA NA  
## X6652248.19.T.C NA NA NA  
## X6652256.38.A.G NA NA NA  
## X6652399.58.G.T NA NA NA  
## X6652408.36.G.T NA NA NA  
## X6652455.7.A.G NA NA NA  
## X6652563.7.G.C NA NA NA  
## X6652666.14.C.T NA NA NA  
## X6652708.30.T.C NA NA NA  
## X6652718.43.C.A NA NA NA  
## X6652723.11.A.G NA NA NA  
## X6652744.49.T.G NA NA NA  
## X6652761.57.T.G NA NA NA  
## X6652809.41.A.G -1.674349e-05 1.362795e-05 0.004405286  
## X6652820.37.G.T NA NA NA  
## X6652865.19.C.G NA NA NA  
## X6653005.35.T.C NA NA NA  
## X6653010.64.G.C NA NA NA  
## X6653038.53.G.C NA NA NA  
## X6653130.47.A.T NA NA NA  
## X6653175.37.A.G NA NA NA  
## X6653237.34.C.T -1.343039e-05 1.093078e-05 0.004424779  
## X6653376.49.A.C NA NA NA  
## X6653396.18.A.G NA NA NA  
## X6653462.51.G.A NA NA NA  
## X6653499.18.A.G NA NA NA  
## X6653523.14.A.C NA NA NA  
## X6653530.62.T.C NA NA NA  
## X6653604.19.T.A NA NA NA  
## X6653643.33.G.C NA NA NA  
## X6653655.16.T.C NA NA NA  
## X6653725.23.C.A -2.664504e-06 2.164502e-06 0.004329004  
## X6653838.44.C.T NA NA NA  
## X6653994.51.G.A NA NA NA  
## X6656884.31.A.G -1.676749e-05 1.369399e-05 0.006097561  
## X6656889.19.A.G -1.953474e-05 1.586216e-05 0.004651163  
## X6657085.18.T.G -2.532127e-05 2.074993e-05 0.005102041  
## X6657130.23.G.T -4.399857e-05 1.709303e-05 0.008620690  
## X6657217.6.G.T NA NA NA  
## X6657267.27.G.T -2.121915e-05 1.722501e-05 0.004366812  
## X6657331.17.A.G NA NA NA  
## X6657391.26.A.G 1.197476e-05 -9.691801e-06 0.007142857  
## X6657478.16.A.C NA NA NA  
## X6657485.17.C.T -8.020575e-05 6.609130e-05 0.007874016  
## X6657548.20.A.G NA NA NA  
## X6657600.33.G.A -1.993046e-05 1.626627e-05 0.004504505  
## X6657637.34.A.C NA NA NA  
## X6657667.22.A.G NA NA NA  
## X6657873.49.G.A NA NA NA  
## X6658002.34.T.C NA NA NA  
## X6658172.30.C.A 4.641178e-05 -5.484093e-05 0.008264463  
## X6658300.7.T.A NA NA NA  
## X6658375.19.C.G -2.011881e-05 1.633387e-05 0.004739336  
## X6658441.13.C.T -2.332477e-05 1.891749e-05 0.004878049  
## X6658569.13.G.A 1.119226e-04 -9.166787e-05 0.006802721  
## X6661094.36.A.G NA NA NA  
## X6661297.9.T.G NA NA NA  
## X6661311.33.T.C NA NA NA  
## X6661392.20.A.G NA NA NA  
## X6661396.55.T.C -4.618959e-05 3.763547e-05 0.005988024  
## X6661401.35.G.A -2.734377e-05 2.218968e-05 0.005747126  
## X6661459.27.G.A NA NA NA  
## X6661496.33.C.G NA NA NA  
## X6661598.62.A.G 3.681965e-05 -4.782329e-05 0.008438819  
## X6661609.59.A.C -5.593562e-05 4.551087e-05 0.006289308  
## X6661636.18.T.A -1.829548e-05 1.485329e-05 0.004273504  
## X6661653.9.G.A NA NA NA  
## X6661756.25.G.A NA NA NA  
## X6661788.59.G.T NA NA NA  
## X6661804.5.T.A NA NA NA  
## X6661860.33.C.T NA NA NA  
## X6662701.6.A.G -1.683298e-05 1.362795e-05 0.004405286  
## X6662705.5.C.G NA NA NA  
## X6662826.20.C.T NA NA NA  
## X6663036.30.T.G NA NA NA  
## X6663052.30.A.G -4.038593e-06 3.280302e-06 0.004975124  
## X6663927.13.G.A NA NA NA  
## X6664053.24.C.T -1.723812e-05 1.400756e-05 0.004132231  
## X6664315.17.A.G -6.018566e-05 4.860025e-05 0.006622517  
## X6664393.35.G.A -2.734377e-05 2.218968e-05 0.005747126  
## X100101004.14.G.C NA NA NA  
## X6664748.30.C.A NA NA NA  
## X6665122.15.A.T NA NA NA  
## X6665280.39.G.A NA NA NA  
## X6665349.39.T.A NA NA NA  
## X100109477.21.T.C NA NA NA  
## X6665749.9.T.C -1.940346e-05 1.577461e-05 0.004424779  
## X6665804.12.G.A NA NA NA  
## X6665805.15.G.A NA NA NA  
## X6665809.11.A.G NA NA NA  
## X6665975.52.G.A NA NA NA  
## X6666169.13.T.A -1.512402e-05 1.228572e-05 0.004115226  
## X6666355.23.A.G NA NA NA  
## X100123948.55.T.C NA NA NA  
## X100022390.44.G.A -6.001417e-06 4.871841e-06 0.004830918  
## X100023236.15.G.A NA NA NA  
## X100073694.7.G.A -1.294442e-05 1.053017e-05 0.004694836  
## X100082381.22.C.A NA NA NA  
## X100098535.7.C.G NA NA NA  
## X100098787.33.A.G NA NA NA  
## X100123797.15.G.T NA NA NA  
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## X6650384.58.A.G -2.216455e-05 1.793975e-05 0.004651163  
## X6650392.28.C.A NA NA NA  
## X6650405.15.T.C NA NA NA  
## X6650425.36.A.T NA NA NA  
## X6650440.25.T.C NA NA NA  
## X6650441.46.C.T NA NA NA  
## X6650503.7.C.T NA NA NA  
## X6650511.35.A.T NA NA NA  
## X6650582.52.A.C NA NA NA  
## X6650601.22.C.T NA NA NA  
## X6650694.13.A.C NA NA NA  
## X6650707.5.A.G NA NA NA  
## X6650750.63.G.A NA NA NA  
## X6650751.7.T.G NA NA NA  
## X6650881.41.T.C NA NA NA  
## X6650887.8.T.G NA NA NA  
## X6650895.17.A.G NA NA NA  
## X6650942.29.A.G NA NA NA  
## X6651068.27.G.A NA NA NA  
## X6651106.54.A.T NA NA NA  
## X6651126.7.G.A NA NA NA  
## X6651199.46.C.G NA NA NA  
## X6651277.12.C.T NA NA NA  
## X6651309.58.A.G NA NA NA  
## X6651440.6.A.G NA NA NA  
## X6651559.24.C.T NA NA NA  
## X6651568.46.G.C NA NA NA  
## X6651596.5.C.T NA NA NA  
## X6651608.37.G.A NA NA NA  
## X6651626.23.G.C NA NA NA  
## X6651670.12.A.G NA NA NA  
## X6651678.31.T.G -1.690590e-05 1.373321e-05 0.004115226  
## X6651702.11.C.T NA NA NA  
## X6651729.48.A.G 8.107220e-05 -6.598707e-05 0.004926108  
## X6651775.9.A.G NA NA NA  
## X6651799.50.C.G NA NA NA  
## X6651833.60.C.T NA NA NA  
## X6651834.42.T.G NA NA NA  
## X6651856.61.G.A NA NA NA  
## X6651902.48.A.T NA NA NA  
## X6651916.32.C.T NA NA NA  
## X6651940.40.C.T NA NA NA  
## X6651955.38.C.A -1.519664e-05 1.235630e-05 0.004219409  
## X6652103.6.G.A NA NA NA  
## X6652221.13.A.G NA NA NA  
## X6652233.30.C.T NA NA NA  
## X6652271.50.T.C -2.380023e-05 1.945223e-05 0.004629630  
## X6652312.29.A.G NA NA NA  
## X6652323.41.T.C NA NA NA  
## X6652348.30.G.A NA NA NA  
## X6652387.29.A.C NA NA NA  
## X6652570.42.C.A -1.690590e-05 1.373321e-05 0.004115226  
## X6652579.68.G.T NA NA NA  
## X6652611.59.C.A NA NA NA  
## X6652679.46.G.C NA NA NA  
## X6652770.46.T.C NA NA NA  
## X6652916.41.A.G NA NA NA  
## X6652924.5.G.T NA NA NA  
## X6653139.25.C.T NA NA NA  
## X6653290.15.T.C NA NA NA  
## X6653405.19.T.G NA NA NA  
## X6653547.59.T.C 1.287569e-04 -1.044917e-04 0.004694836  
## X6653608.25.C.G NA NA NA  
## X6653635.5.T.C NA NA NA  
## X6653678.35.A.G NA NA NA  
## X6653689.26.T.A -5.082898e-05 4.098532e-05 0.005813953  
## X6653786.26.A.G NA NA NA  
## X6653788.50.G.A -1.690590e-05 1.373321e-05 0.004115226  
## X6653837.14.C.T 1.181987e-04 -1.527884e-04 0.015151515  
## X6653866.26.A.T NA NA NA  
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## X6654062.37.C.T NA NA NA  
## X6654076.43.A.C NA NA NA  
## X6656943.6.A.T NA NA NA  
## X6656950.8.C.G NA NA NA  
## X6657301.15.A.G NA NA NA  
## X6657373.32.C.A -1.452559e-05 1.179071e-05 0.004237288  
## X6657396.21.C.T -2.072071e-05 1.687563e-05 0.005128205  
## X6657408.41.T.C NA NA NA  
## X6657466.14.C.G NA NA NA  
## X6657470.5.C.T -7.878359e-05 1.881956e-05 0.013513514  
## X6657514.43.G.A NA NA NA  
## X6657532.34.T.C -2.315110e-05 1.885089e-05 0.005076142  
## X6657551.9.T.C -1.940346e-05 1.577461e-05 0.004424779  
## X6657596.44.G.A -2.072489e-05 1.682409e-05 0.004830918  
## X6657604.9.T.G NA NA NA  
## X6657613.10.A.C -2.764518e-06 2.246706e-06 0.004237288  
## X6657630.52.C.T NA NA NA  
## X6657681.17.C.T -3.632703e-05 2.993427e-05 0.007874016  
## X6657715.15.C.T NA NA NA  
## X6657723.9.A.T -2.290208e-06 1.860410e-06 0.004115226  
## X6657726.41.A.G NA NA NA  
## X6657729.7.G.A -1.122012e-05 9.127464e-06 0.004694836  
## X6657752.22.T.A -1.723812e-05 1.400756e-05 0.004132231  
## X6657881.18.C.G NA NA NA  
## X6658064.41.T.A NA NA NA  
## X6658065.28.A.C NA NA NA  
## X6658111.29.A.T NA NA NA  
## X6658148.11.T.C NA NA NA  
## X6658186.19.A.G NA NA NA  
## X6658226.42.C.T -1.791887e-05 1.456876e-05 0.004166667  
## X6658296.10.A.T NA NA NA  
## X6658347.20.C.G -5.603565e-06 4.541029e-06 0.004310345  
## X6658374.29.C.T NA NA NA  
## X6658438.42.C.G -1.918825e-05 1.556356e-05 0.004464286  
## X6658501.21.A.C -1.754733e-05 1.425175e-05 0.004237288  
## X6658566.40.C.T -1.757574e-05 1.428606e-05 0.004149378  
## X6661096.38.A.G NA NA NA  
## X6661098.8.C.T NA NA NA  
## X6661155.52.A.G -1.794503e-05 1.456876e-05 0.004166667  
## X6661165.8.T.C 2.341135e-06 -1.889645e-06 0.004629630  
## X6661251.38.A.G -2.220396e-05 1.802581e-05 0.004830918  
## X6661269.21.G.A NA NA NA  
## X6661341.8.C.T 5.949872e-05 -4.833130e-05 0.004166667  
## X6661391.21.C.A NA NA NA  
## X6661466.12.C.T -5.503068e-05 4.506128e-05 0.006578947  
## X6661555.18.G.C NA NA NA  
## X6661659.40.C.T NA NA NA  
## X6661684.52.G.A NA NA NA  
## X6661698.59.T.A -2.091921e-05 1.697693e-05 0.004444444  
## X6661775.7.A.G NA NA NA  
## X6661797.49.G.A NA NA NA  
## X6662590.20.A.G NA NA NA  
## X6662615.6.C.T NA NA NA  
## X6662790.12.G.C -4.159502e-05 1.596265e-05 0.008438819  
## X6662818.19.G.A -2.027673e-05 1.643472e-05 0.004878049  
## X6662832.11.A.G NA NA NA  
## X6662835.7.G.C -2.081083e-05 1.688003e-05 0.004901961  
## X6662944.22.G.C NA NA NA  
## X6662946.24.G.A NA NA NA  
## X6662996.36.G.A NA NA NA  
## X6663047.41.G.A -1.516797e-05 1.232742e-05 0.004166667  
## X6663054.17.C.T -3.632703e-05 2.993427e-05 0.007874016  
## X6663939.28.A.T NA NA NA  
## X6663975.44.T.C NA NA NA  
## X6663987.39.C.G NA NA NA  
## X6664296.7.C.G NA NA NA  
## X6664312.54.A.T NA NA NA  
## X6664428.37.G.A -1.912094e-05 1.557566e-05 0.005649718  
## X100082074.52.T.C -6.177344e-05 5.068182e-05 0.010309278  
## X6664722.41.T.G NA NA NA  
## X6665235.64.T.C NA NA NA  
## X6665278.5.A.G NA NA NA  
## X6665282.36.G.A -1.368120e-04 1.106051e-04 0.009433962  
## X6665346.17.A.G NA NA NA  
## X6665662.22.T.C -1.805892e-05 1.467102e-05 0.004310345  
## X6665663.28.T.A -1.620756e-05 1.317248e-05 0.004219409  
## X6665849.25.C.T -5.949284e-05 4.889823e-05 0.006802721  
## X6665877.33.T.C -2.085598e-05 1.697693e-05 0.004444444  
## X6665879.38.A.T -2.170340e-05 1.764540e-05 0.004347826  
## X6666358.65.C.T NA NA NA  
## X100016475.46.G.A NA NA NA  
## X100016905.48.C.A NA NA NA  
## X100018192.15.C.A NA NA NA  
## X100018375.55.C.G -1.718373e-05 1.395786e-05 0.004219409  
## X100021981.25.T.A NA NA NA  
## X100045028.11.A.G -2.672170e-05 2.186123e-05 0.006060606  
## X100065468.15.G.A NA NA NA  
## X100065569.37.C.A NA NA NA  
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## X100073701.13.G.T -1.679847e-05 1.366845e-05 0.004201681  
## X100074011.18.G.C -4.047535e-05 3.282360e-05 0.006024096  
## X100082459.38.C.A -1.519664e-05 1.235630e-05 0.004219409  
## X100086150.10.G.T -1.620186e-05 1.317248e-05 0.004219409  
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## X100086237.9.C.A NA NA NA  
## X100091190.32.A.G NA NA NA  
## X100091207.45.C.G NA NA NA  
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## X100096444.12.A.C 8.059020e-05 -6.560204e-05 0.004273504  
## X100098472.22.C.G -1.577844e-05 1.282626e-05 0.004149378  
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## X100107103.17.C.T NA NA NA  
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## X6650481.61.G.A NA NA NA  
## X6650788.22.T.C NA NA NA  
## X6651332.37.A.C NA NA NA  
## X6651818.50.T.C NA NA NA  
## X6651863.32.C.T NA NA NA  
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## X6652754.21.A.G NA NA NA  
## X6652755.9.G.A NA NA NA  
## X6653571.19.A.G NA NA NA  
## X6653574.37.T.C NA NA NA  
## X6653585.24.C.T NA NA NA  
## X6657101.27.G.A NA NA NA  
## X6657124.22.T.C -1.805892e-05 1.467102e-05 0.004310345  
## X6657595.21.A.G -2.109741e-05 1.705168e-05 0.004716981  
## X6657640.37.T.G NA NA NA  
## X6657747.20.T.A -3.445760e-05 2.795539e-05 0.005319149  
## X6657809.8.A.C -2.294540e-05 1.860308e-05 0.004444444  
## X6657847.15.A.G NA NA NA  
## X6657859.39.G.C -2.293867e-05 1.860308e-05 0.004444444  
## X6657980.25.A.G -1.974792e-04 1.610306e-04 0.014492754  
## X6658003.48.T.C NA NA NA  
## X6658141.5.G.C NA NA NA  
## X6658173.38.T.C NA NA NA  
## X6658437.16.G.A NA NA NA  
## X6658509.5.T.C NA NA NA  
## X6658625.7.G.C NA NA NA  
## X6661101.21.T.C -1.421221e-05 1.157473e-05 0.004464286  
## X6661509.18.T.G NA NA NA  
## X6661745.36.G.A NA NA NA  
## X6661802.6.G.A NA NA NA  
## X6661814.14.T.G NA NA NA  
## X6662656.29.A.G NA NA NA  
## X6662837.7.T.A NA NA NA  
## X6662873.7.G.C NA NA NA  
## X6662947.5.G.A -4.257257e-05 1.625905e-05 0.008547009  
## X6663032.15.G.A -6.491368e-05 3.265605e-05 0.008968610  
## X6664269.17.T.G -8.839955e-05 4.373385e-05 0.010471204  
## X6664285.27.A.C NA NA NA  
## X6664757.14.T.C NA NA NA  
## X6664912.6.T.C -1.754951e-04 1.384275e-04 0.011627907  
## X6665124.27.C.T -5.071751e-05 4.140220e-05 0.006134969  
## X6665664.30.A.C -1.824437e-05 1.485329e-05 0.004273504  
## X6665874.13.A.G -1.789167e-05 1.455020e-05 0.004255319  
## X6665876.47.A.G NA NA NA  
## X6666225.7.A.G NA NA NA  
## X100065638.51.G.C NA NA NA  
## X100065980.45.T.C NA NA NA  
## X100073421.25.T.C NA NA NA  
## X100073630.15.C.G NA NA NA  
## X100073757.34.G.C NA NA NA  
## X100073948.30.G.A -2.189772e-05 1.774277e-05 0.004587156  
## X100074014.19.T.A -1.600587e-05 1.298814e-05 0.004366812  
## X100074068.17.A.G NA NA NA  
## X100082248.28.G.A NA NA NA  
## X100086042.5.C.T 1.124736e-04 -1.384516e-04 0.013513514  
## X100093665.8.T.G -1.627696e-05 1.323066e-05 0.004273504  
## X100098602.36.T.A -1.028141e-04 8.223684e-05 0.008333333  
## X100098836.24.A.C 5.917789e-05 -4.802281e-05 0.004366812  
## X100102147.13.C.T -6.943270e-06 5.631321e-06 0.004878049  
## X100121015.18.T.C NA NA NA  
## X100066223.13.G.A NA NA NA  
## X100106210.14.T.G 4.703500e-05 -1.011065e-04 0.013698630  
## X6665285.9.C.T -1.069845e-04 8.698405e-05 0.008849558  
## X6661710.31.T.C NA NA NA  
## X6653668.61.T.A NA NA NA  
## X100024870.39.A.C NA NA NA  
## X6663929.41.A.C NA NA NA  
## X100019092.30.T.A NA NA NA  
## X6661298.58.T.C -3.329108e-05 2.692393e-05 0.005464481  
## X100016534.66.G.A NA NA NA  
## X100023056.37.G.A 5.114429e-05 -7.376212e-05 0.011299435  
## X100082643.25.G.C -1.697543e-04 8.989413e-05 0.013986014  
## X100064775.20.G.A NA NA NA  
## X100023265.24.C.A NA NA NA  
## X6651137.52.T.C NA NA NA  
## X6652727.6.C.A NA NA NA  
## X100021017.32.G.T -2.436684e-05 1.983371e-05 0.004807692  
## X100073776.11.G.A NA NA NA  
## X100015600.63.A.T NA NA NA  
## X6665051.27.A.T NA NA NA  
## X100019246.34.T.A NA NA NA  
## X6651056.34.C.T 6.548657e-05 -5.329847e-05 0.004424779  
## X6661829.9.C.T NA NA NA  
## X6665126.22.A.C 5.221256e-05 -6.487757e-05 0.009433962  
## X100016268.6.T.C 1.316213e-05 -1.038206e-05 0.011627907  
## X100020350.21.A.G -2.109741e-05 1.705168e-05 0.004716981  
## X100023328.20.T.C 4.081138e-07 -3.302674e-07 0.004739336  
## X100066210.28.C.T NA NA NA  
## X6661110.21.T.A -1.773372e-05 1.436190e-05 0.004291845  
## X100018023.63.A.G NA NA NA  
## X100020236.59.G.A -1.901548e-05 1.543863e-05 0.004405286  
## X100021188.32.G.C NA NA NA  
## X100021960.39.C.T NA NA NA  
## X100023459.46.A.G 2.192312e-05 -3.869032e-05 0.009132420  
## X100017280.64.T.G 3.440824e-05 -4.651300e-05 0.008583691  
## X100018247.39.T.A -1.761032e-05 1.428882e-05 0.004444444  
## X100021898.39.C.T -2.929193e-05 2.364066e-05 0.010000000  
## X100022093.45.A.T -1.485556e-05 1.207842e-05 0.004255319  
## X100023129.9.T.A -1.674839e-05 1.358696e-05 0.004347826  
## X100023441.20.A.G -7.414748e-05 6.009615e-05 0.007692308  
## X100065302.16.G.A NA NA NA  
## X100066548.17.C.T NA NA NA  
## X6650550.11.T.G NA NA NA  
## X100016077.58.A.G -1.680266e-05 1.359989e-05 0.004651163  
## X100018469.20.T.G NA NA NA  
## X100019543.16.G.T NA NA NA  
## X100020860.10.A.C NA NA NA  
## X100022172.17.T.G NA NA NA  
## X100045257.30.G.T -1.613093e-05 1.310273e-05 0.004166667  
## X6650546.47.C.A NA NA NA  
## X6653399.26.T.A NA NA NA  
## X100015390.53.T.G 2.718127e-07 -2.207116e-07 0.004149378  
## X100017298.53.C.T 6.474978e-05 -5.279475e-05 0.004672897  
## X100017444.58.C.T NA NA NA  
## X100017989.5.T.C NA NA NA  
## X100018126.55.A.G NA NA NA  
## X100018257.27.G.T NA NA NA  
## X100018350.18.A.T -2.298153e-05 1.866493e-05 0.004405286  
## X100020244.19.T.A NA NA NA  
## X100021605.34.G.T -1.898528e-05 1.544294e-05 0.004219409  
## X100023076.20.A.T NA NA NA  
## X100023357.49.A.T NA NA NA  
## X6653628.59.A.G NA NA NA  
## X6661821.17.T.A 3.303585e-04 -2.717003e-04 0.009009009  
## X100015255.25.C.T NA NA NA  
## X100015707.14.A.T -1.553650e-05 1.264323e-05 0.004237288  
## X100015710.46.C.T 7.021278e-06 -5.727168e-06 0.005405405  
## X100016017.19.C.T NA NA NA  
## X100017899.6.A.G -2.305457e-05 1.866493e-05 0.004405286  
## X100019473.54.C.T -1.250870e-04 1.014199e-04 0.008620690  
## X100020145.63.C.G NA NA NA  
## X100021743.44.C.T NA NA NA  
## X100022776.55.C.A NA NA NA  
## X100023242.39.G.C NA NA NA  
## X100082188.29.T.C NA NA NA  
## X100015628.14.G.A NA NA NA  
## X100020893.36.A.G NA NA NA  
## X100021540.61.G.A NA NA NA  
## X100021665.36.G.A NA NA NA  
## X100022938.66.G.C NA NA NA  
## X100023291.60.T.A NA NA NA  
## X6661242.40.T.A NA NA NA  
## X6661353.60.C.T NA NA NA  
## X100016201.10.C.T -1.416603e-04 1.161760e-04 0.009708738  
## X100016537.37.T.G NA NA NA  
## X100016842.18.C.T NA NA NA  
## X100016876.65.C.T NA NA NA  
## X100016987.65.G.A NA NA NA  
## X100017504.59.C.A -1.704934e-05 1.384932e-05 0.004166667  
## X100019821.57.T.A NA NA NA  
## X100020901.34.T.C NA NA NA  
## X100021671.8.G.A NA NA NA  
## X100021969.10.T.C -1.598550e-05 1.298814e-05 0.004366812  
## X100022199.66.G.A NA NA NA  
## X100022545.35.T.C NA NA NA  
## X100022573.13.G.C NA NA NA  
## X100022831.52.G.A -2.852030e-05 2.315323e-05 0.005154639  
## X100066558.7.C.T NA NA NA  
## X100016263.30.C.G NA NA NA  
## X100016306.10.A.T NA NA NA  
## X100017198.10.T.A NA NA NA  
## X100017275.13.A.G NA NA NA  
## X100017509.15.C.G NA NA NA  
## X100018032.68.T.C -2.491594e-05 2.015021e-05 0.004716981  
## X100018336.6.C.T NA NA NA  
## X100018672.56.G.T NA NA NA  
## X100019100.44.G.T NA NA NA  
## X100019286.14.C.G NA NA NA  
## X100019912.15.C.T NA NA NA  
## X100020907.14.C.T NA NA NA  
## X100021161.47.T.A NA NA NA  
## X100021810.7.T.C NA NA NA  
## X100023367.18.C.T NA NA NA  
## X100064740.15.A.T NA NA NA  
## X6653264.41.A.G NA NA NA  
## X6663072.37.T.A NA NA NA  
## X100016098.7.T.C NA NA NA  
## X100016143.59.T.C NA NA NA  
## X100016740.12.A.C NA NA NA  
## X100016777.38.T.C NA NA NA  
## X100018407.47.C.A NA NA NA  
## X100018609.48.C.T NA NA NA  
## X100019034.62.G.A NA NA NA  
## X100019293.6.G.T NA NA NA  
## X100019468.41.G.A NA NA NA  
## X100019644.45.T.C -1.514031e-04 1.218324e-04 0.008771930  
## X100019745.64.C.T -6.639585e-05 3.321543e-05 0.009049774  
## X100021138.40.C.T NA NA NA  
## X100022777.45.C.T NA NA NA  
## X100066874.50.C.A NA NA NA  
## X100091157.27.T.G NA NA NA  
## X6652941.42.T.C -1.726933e-06 1.405758e-06 0.004273504  
## X6653902.40.C.T -1.757574e-05 1.428606e-05 0.004149378  
## X6664728.12.C.T -3.017811e-05 2.471103e-05 0.006578947  
## X100015633.60.A.G NA NA NA  
## X100016193.8.T.A NA NA NA  
## X100017485.19.T.C NA NA NA  
## X100018162.27.C.T NA NA NA  
## X100019061.21.G.C NA NA NA  
## X100019334.15.C.T NA NA NA  
## X100019756.22.T.C NA NA NA  
## X100020056.55.G.T NA NA NA  
## X100020924.20.C.T NA NA NA  
## X100022009.9.G.A NA NA NA  
## X100022323.36.A.G NA NA NA  
## X100022703.5.T.C NA NA NA  
## X100023049.42.G.A NA NA NA  
## X100023218.64.G.T -1.732006e-05 1.405758e-05 0.004273504  
## X100023269.66.A.G -2.002145e-05 1.625189e-05 0.004672897  
## X100024832.25.T.C NA NA NA  
## X100044738.8.C.T -9.821624e-17 2.428613e-17 0.004166667  
## X100065081.38.C.T NA NA NA  
## X100065706.32.G.A -1.845715e-05 1.501133e-05 0.004237288  
## X100096952.53.C.A NA NA NA  
## X6651239.56.C.A NA NA NA  
## X6651495.32.A.G NA NA NA  
## X6652638.14.C.A NA NA NA  
## X6653296.13.A.C NA NA NA  
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## X100015381.11.T.A NA NA NA  
## X100015413.40.A.T NA NA NA  
## X100015882.61.G.T -1.391553e-05 1.130646e-05 0.005102041  
## X100017512.41.A.C NA NA NA  
## X100018395.5.T.C -4.281965e-05 3.479283e-05 0.005617978  
## X100019423.68.C.G -1.679773e-05 1.366845e-05 0.004201681  
## X100019434.60.G.T NA NA NA  
## X100019704.32.C.G NA NA NA  
## X100019785.27.T.C NA NA NA  
## X100021066.30.G.A NA NA NA  
## X100021425.47.C.A NA NA NA  
## X100021475.63.A.T NA NA NA  
## X100021915.65.G.A -3.292217e-05 2.685285e-05 0.005102041  
## X100022373.12.A.G NA NA NA  
## X100022606.28.T.C NA NA NA  
## X100022910.49.A.G NA NA NA  
## X100025041.57.G.A NA NA NA  
## X100044554.19.G.A NA NA NA  
## X100064948.49.T.A NA NA NA  
## X100065362.20.C.T NA NA NA  
## X6650752.20.T.A NA NA NA  
## X6652176.15.T.C NA NA NA  
## X6653696.11.C.T NA NA NA  
## X6662909.25.T.C NA NA NA  
## X100015291.39.T.G NA NA NA  
## X100016129.26.G.A NA NA NA  
## X100017225.65.T.C NA NA NA  
## X100017536.38.A.T NA NA NA  
## X100017676.8.G.A NA NA NA  
## X100019216.7.C.G NA NA NA  
## X100019420.52.C.G NA NA NA  
## X100019494.63.G.T -1.611295e-05 1.310273e-05 0.004166667  
## X100020318.21.C.T NA NA NA  
## X100020532.11.T.G NA NA NA  
## X100020604.29.A.G NA NA NA  
## X100020745.51.A.C -1.807137e-05 1.467102e-05 0.004310345  
## X100021499.21.G.C NA NA NA  
## X100021838.13.T.A NA NA NA  
## X100021978.37.T.C NA NA NA  
## X100022031.7.T.A NA NA NA  
## X100022223.45.A.G NA NA NA  
## X100023499.68.G.T NA NA NA  
## X100023507.21.G.A NA NA NA  
## X6634782.49.G.A -2.069495e-05 1.681564e-05 0.004484305  
## X6650656.12.T.G NA NA NA  
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## X6661333.17.C.T NA NA NA  
## X100015448.67.A.T -1.637897e-05 1.330546e-05 0.004385965  
## X100015469.19.T.A NA NA NA  
## X100015537.12.C.T NA NA NA  
## X100015992.7.C.A NA NA NA  
## X100016029.18.C.T NA NA NA  
## X100016274.21.C.T NA NA NA  
## X100016854.18.G.T NA NA NA  
## X100017144.48.G.A NA NA NA  
## X100017489.57.G.A NA NA NA  
## X100017909.16.T.C NA NA NA  
## X100018611.43.C.A 1.710675e-04 -1.371348e-04 0.004975124  
## X100018927.63.G.C NA NA NA  
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## X100020671.26.T.C NA NA NA  
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## X100021318.46.C.G NA NA NA  
## X100021549.61.A.C NA NA NA  
## X100021863.20.C.T -2.664628e-06 2.164502e-06 0.004329004  
## X100023205.16.G.T NA NA NA  
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## X100064599.63.A.C NA NA NA  
## X100065680.37.G.A NA NA NA  
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## X6651570.59.C.T NA NA NA  
## X6652200.26.G.A NA NA NA  
## X6652872.49.G.A NA NA NA  
## X6654031.17.C.T NA NA NA  
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## X6662917.14.G.T NA NA NA  
## X6666226.12.T.G NA NA NA  
## X100015950.5.A.G NA NA NA  
## X100016109.31.A.T NA NA NA  
## X100016805.54.A.G NA NA NA  
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## X100018244.41.A.T NA NA NA  
## X100018636.16.G.A NA NA NA  
## X100018890.25.T.C NA NA NA  
## X100018982.31.A.G NA NA NA  
## X100019094.40.C.T NA NA NA  
## X100019137.21.G.C NA NA NA  
## X100019699.26.G.C NA NA NA  
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## X100021521.57.T.G NA NA NA  
## X100022288.6.G.C NA NA NA  
## X100022337.30.A.G NA NA NA  
## X100022554.22.T.C NA NA NA  
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## X100045690.24.G.A -1.840260e-05 1.497158e-05 0.004484305  
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## X6651982.15.T.A NA NA NA  
## X6653247.28.A.C NA NA NA  
## X6653292.47.C.G NA NA NA  
## X6653430.58.A.G NA NA NA  
## X6653481.64.T.C NA NA NA  
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## X6653865.59.A.C NA NA NA  
## X6661831.60.G.A NA NA NA  
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## X100021617.53.T.C NA NA NA  
## X100021932.18.G.T NA NA NA  
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## X100022667.15.C.T NA NA NA  
## X100022800.24.C.A NA NA NA  
## X100022903.55.C.T NA NA NA  
## X100023130.51.G.C NA NA NA  
## X100023154.5.T.C NA NA NA  
## X100023531.17.A.G NA NA NA  
## X100045599.24.A.G NA NA NA  
## X100065227.31.T.C NA NA NA  
## X100065691.24.C.T NA NA NA  
## X100066039.22.G.A NA NA NA  
## X100066092.14.C.T -7.924275e-05 6.366183e-05 0.007575758  
## X100074069.38.T.C NA NA NA  
## X100106301.19.A.G NA NA NA  
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## X6652061.58.G.A NA NA NA  
## X6652327.54.A.T NA NA NA  
## X6653204.40.A.G NA NA NA  
## X6653393.35.C.A NA NA NA  
## X6653673.65.A.G NA NA NA  
## X6653746.33.C.A NA NA NA  
## X6661305.25.C.G NA NA NA  
## X6664067.16.C.A NA NA NA  
## X6664716.12.T.C NA NA NA  
## X100015645.28.C.T NA NA NA  
## X100016045.44.C.T NA NA NA  
## X100016331.42.T.C NA NA NA  
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## X100018593.39.G.A NA NA NA  
## X100018814.46.A.G -1.903685e-05 1.540828e-05 0.004566210  
## X100019003.20.A.T NA NA NA  
## X100019081.63.A.T NA NA NA  
## X100019377.57.G.A NA NA NA  
## X100019413.55.T.G -1.382600e-05 1.125008e-05 0.004444444  
## X100019588.52.G.A NA NA NA  
## X100021006.21.C.T NA NA NA  
## X100021094.7.C.G NA NA NA  
## X100022208.18.A.C NA NA NA  
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## X100022384.48.G.A NA NA NA  
## X100022899.42.C.G NA NA NA  
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## X6650846.64.A.G NA NA NA  
## X6650911.65.G.A NA NA NA  
## X6651088.5.A.C NA NA NA  
## X6651399.12.C.A NA NA NA  
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## X6653133.15.G.A NA NA NA  
## X6653564.53.G.A NA NA NA  
## X6653709.31.G.A NA NA NA  
## X6653720.68.C.A NA NA NA  
## X6653797.40.A.T NA NA NA  
## X6653874.10.G.T NA NA NA  
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## X6653965.43.A.G NA NA NA  
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## X6661880.32.C.T -1.183293e-04 9.598125e-05 0.008695652  
## X100015400.35.T.C -4.753251e-05 3.859216e-05 0.006097561  
## X100016174.6.C.A NA NA NA  
## X100016241.19.C.T NA NA NA  
## X100016653.31.G.A NA NA NA  
## X100017080.12.A.T -1.965079e-05 1.595725e-05 0.004385965  
## X100017172.64.G.C NA NA NA  
## X100017659.13.G.A NA NA NA  
## X100017936.42.T.C -1.726933e-05 1.405758e-05 0.004273504  
## X100018252.52.A.G 4.556596e-05 -5.442671e-05 0.008333333  
## X100018331.42.G.A NA NA NA  
## X100019441.49.A.T -1.831700e-05 1.485329e-05 0.004273504  
## X100020597.8.T.A NA NA NA  
## X100020814.67.G.A NA NA NA  
## X100022284.10.G.A NA NA NA  
## X100022341.63.A.G NA NA NA  
## X100023203.29.C.G NA NA NA  
## X100023334.6.G.T NA NA NA  
## X100023527.5.T.A NA NA NA  
## X100082625.32.A.G NA NA NA  
## X6631600.18.G.A 1.078431e-03 -8.744038e-04 0.013513514  
## X6634219.54.C.T 1.104665e-04 -8.956561e-05 0.008620690  
## X6650605.38.G.A NA NA NA  
## X6650666.57.T.A 2.238920e-05 -1.833814e-05 0.009174312  
## X6650850.54.G.C NA NA NA  
## X6651176.17.T.A NA NA NA  
## X6651223.56.T.G -1.797050e-05 1.456876e-05 0.004166667  
## X6651266.67.C.T NA NA NA  
## X6651497.13.G.A NA NA NA  
## X6651500.53.T.A NA NA NA  
## X6652020.49.C.T 1.336352e-04 -1.089001e-04 0.009009009  
## X6652396.20.C.T NA NA NA  
## X6652765.20.C.T -1.741587e-05 1.414707e-05 0.004329004  
## X6653179.35.C.A -3.598062e-06 2.914295e-06 0.004484305  
## X6653588.36.G.A NA NA NA  
## X6653617.17.C.G NA NA NA  
## X6653803.13.C.G NA NA NA  
## X6653921.17.G.A NA NA NA  
## X6654071.34.C.T NA NA NA  
## X6658453.44.C.T -1.104507e-04 8.729689e-05 0.010526316  
## X6662623.41.C.T NA NA NA  
## X100015396.38.G.A NA NA NA  
## X100015614.19.G.A NA NA NA  
## X100015961.7.A.G NA NA NA  
## X100016361.49.G.A NA NA NA  
## X100016600.22.G.C NA NA NA  
## X100017130.57.T.G NA NA NA  
## X100017328.47.G.A NA NA NA  
## X100018645.27.A.G NA NA NA  
## X100018647.11.T.C NA NA NA  
## X100019579.57.A.G NA NA NA  
## X100019755.66.T.A NA NA NA  
## X100020516.10.T.C -1.598550e-05 1.298814e-05 0.004366812  
## X100021870.45.T.C NA NA NA  
## X100022119.34.G.A -2.667288e-05 2.153214e-05 0.004739336  
## X100022158.40.C.G NA NA NA  
## X100022170.46.A.G NA NA NA  
## X100022467.38.A.C NA NA NA  
## X100022708.55.T.C NA NA NA  
## X100023428.39.C.A NA NA NA  
## X100064901.22.G.A NA NA NA  
## X100066583.50.G.C NA NA NA  
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## X100082209.53.T.A -1.690590e-05 1.373321e-05 0.004115226  
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## X6650640.8.G.T NA NA NA  
## X6651037.14.A.C NA NA NA  
## X6651123.16.G.T NA NA NA  
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## X6652912.31.C.T NA NA NA  
## X6652960.9.G.T NA NA NA  
## X6653047.24.C.T NA NA NA  
## X6653111.54.G.C NA NA NA  
## X6653182.48.A.G NA NA NA  
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## X6653329.47.T.C NA NA NA  
## X6653695.53.T.C -1.629246e-05 1.327561e-05 0.004329004  
## X6657908.24.T.C -2.038862e-06 1.661715e-06 0.005154639  
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## X6661172.54.T.C NA NA NA  
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## X100016065.42.C.A NA NA NA  
## X100016173.67.C.G NA NA NA  
## X100016227.33.T.G NA NA NA  
## X100016734.15.A.G NA NA NA  
## X100017686.33.G.C NA NA NA  
## X100017703.8.T.C NA NA NA  
## X100017977.13.T.C NA NA NA  
## X100018439.16.T.C NA NA NA  
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## X100045624.6.C.G NA NA NA  
## X6650668.41.T.C NA NA NA  
## X6650746.17.T.C NA NA NA  
## X6650807.17.C.T NA NA NA  
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## X6651783.65.C.T NA NA NA  
## X6652191.59.C.T NA NA NA  
## X6652464.36.A.G NA NA NA  
## X6652873.35.C.G NA NA NA  
## X6653077.56.T.C NA NA NA  
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## X6653747.15.A.G NA NA NA  
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## X6661424.62.T.C NA NA NA  
## X6661830.19.T.C NA NA NA  
## X6665513.19.G.C NA NA NA  
## X6661486.13.G.C NA NA NA  
## X100015240.23.G.A NA NA NA  
## X100016947.13.A.G NA NA NA  
## X100018671.65.G.A NA NA NA  
## X100019864.8.C.G NA NA NA  
## X100019949.8.C.T NA NA NA  
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## X100044609.42.A.G NA NA NA  
## X100065342.51.C.T NA NA NA  
## X100066803.48.A.G NA NA NA  
## X100085950.35.A.G NA NA NA  
## X100108060.20.G.C NA NA NA  
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## X6650650.35.G.T NA NA NA  
## X6650684.65.A.T NA NA NA  
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## X6651124.38.C.T NA NA NA  
## X6651144.62.T.C NA NA NA  
## X6651167.41.A.G NA NA NA  
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## X6651679.24.G.A NA NA NA  
## X6651984.7.T.A NA NA NA  
## X6652023.10.G.A NA NA NA  
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## X6652242.32.G.A NA NA NA  
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## X6653236.64.T.C NA NA NA  
## X6653348.13.G.A NA NA NA  
## X6653637.32.G.T NA NA NA  
## X6653657.58.T.C NA NA NA  
## X6653943.15.G.T NA NA NA  
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## X6654050.51.G.T NA NA NA  
## X6654072.32.C.A NA NA NA  
## X6657061.32.A.G NA NA NA  
## X6661522.65.A.G NA NA NA  
## X6665120.10.A.G NA NA NA  
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## X100065668.5.T.C NA NA NA  
## X100015835.6.C.T NA NA NA  
## X100016061.39.G.C -4.638961e-05 1.778034e-05 0.008888889  
## X100016656.14.T.C NA NA NA  
## X100017602.16.G.A NA NA NA  
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## X100019777.21.G.C NA NA NA  
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## X100022177.66.A.G NA NA NA  
## X100023241.6.T.C NA NA NA  
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## X100065422.7.G.A NA NA NA  
## X100066442.52.G.A NA NA NA  
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## X6650610.24.T.A NA NA NA  
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## X6650842.16.G.T NA NA NA  
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## X6651261.54.G.A NA NA NA  
## X6651453.19.A.C NA NA NA  
## X6651597.59.A.G NA NA NA  
## X6651744.34.A.T NA NA NA  
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## X6651980.42.A.G NA NA NA  
## X6652201.21.C.A NA NA NA  
## X6652243.14.C.G NA NA NA  
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## X6653219.11.G.C NA NA NA  
## X6653248.20.T.C NA NA NA  
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## X6653971.28.A.T NA NA NA  
## X6657006.6.C.A NA NA NA  
## X6657540.27.G.A NA NA NA  
## X6661088.54.C.T NA NA NA  
## X100082471.46.T.C NA NA NA  
## X6661706.26.T.C NA NA NA  
## X6664071.6.G.A NA NA NA  
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## X100021275.46.C.T NA NA NA  
## X100045738.12.T.A NA NA NA  
## X100082496.60.G.T NA NA NA  
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## X6650913.49.A.G NA NA NA  
## X6650972.30.C.T NA NA NA  
## X6651222.59.G.A NA NA NA  
## X6651438.51.T.C NA NA NA  
## X6651492.20.G.A NA NA NA  
## X6651654.52.A.G NA NA NA  
## X6651829.48.G.A NA NA NA  
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## X6651877.63.C.T NA NA NA  
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## X6651986.27.T.C NA NA NA  
## X6652262.36.T.C NA NA NA  
## X6652560.9.A.T NA NA NA  
## X6652688.16.G.A NA NA NA  
## X6652875.8.C.G NA NA NA  
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## X6653410.59.G.C NA NA NA  
## X6653536.55.G.A NA NA NA  
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## X6661568.63.A.T NA NA NA  
## X6661747.28.T.C NA NA NA  
## X6663960.60.T.C NA NA NA  
## X6663980.14.A.G NA NA NA  
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## X100022394.27.C.T NA NA NA  
## X100023389.57.T.G NA NA NA  
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## X6650688.61.A.G NA NA NA  
## X6650747.16.A.C NA NA NA  
## X6650772.42.C.A NA NA NA  
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## X6651322.19.G.A NA NA NA  
## X6651329.44.C.A NA NA NA  
## X6651331.12.T.A NA NA NA  
## X6651353.65.C.A NA NA NA  
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## X6651589.18.T.A NA NA NA  
## X6651687.45.A.G NA NA NA  
## X6651748.42.G.T NA NA NA  
## X6651933.62.A.G NA NA NA  
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## X6652527.63.C.A NA NA NA  
## X6652542.24.G.C NA NA NA  
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## X6652730.63.C.G NA NA NA  
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## X6653365.26.A.G NA NA NA  
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## X6653741.19.T.C NA NA NA  
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## X6653879.16.T.C NA NA NA  
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## X6661127.7.A.C NA NA NA  
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## X6661563.46.C.A NA NA NA  
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## X100018597.37.C.G NA NA NA  
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## X6651107.37.G.A NA NA NA  
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## X6651658.42.A.T NA NA NA  
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## X6651765.63.C.G NA NA NA  
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## X6651957.58.G.A NA NA NA  
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## X6652143.61.T.G NA NA NA  
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## X6652158.57.C.T NA NA NA  
## X6652181.32.G.A NA NA NA  
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## X6652240.22.G.A NA NA NA  
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## X6652757.25.T.C NA NA NA  
## X6652797.7.G.T NA NA NA  
## X6652811.14.C.T NA NA NA  
## X6652891.17.T.C NA NA NA  
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## X6652922.32.G.A NA NA NA  
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## X6653071.48.C.T NA NA NA  
## X6653276.22.T.C NA NA NA  
## X6653337.5.T.C NA NA NA  
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## X6653392.28.C.G NA NA NA  
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## X6653732.48.A.T NA NA NA  
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## X6653739.44.G.C NA NA NA  
## X6653814.28.G.A NA NA NA  
## X6653826.65.T.G NA NA NA  
## X6653844.35.A.G NA NA NA  
## X6653895.16.A.G NA NA NA  
## X6653898.20.C.A NA NA NA  
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## X6658233.5.T.G NA NA NA  
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## X6661238.20.T.G NA NA NA  
## X6661454.19.A.G NA NA NA  
## X6661478.59.G.T NA NA NA  
## X6661581.31.C.T NA NA NA  
## X6661584.33.A.T NA NA NA  
## X6661734.17.A.G NA NA NA  
## X6662610.35.C.T NA NA NA  
## X6663909.13.G.T NA NA NA  
## X6664051.46.A.C NA NA NA  
## X6665119.8.A.G NA NA NA  
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## X6650439.56.G.A NA NA NA  
## X6650466.32.T.C NA NA NA  
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## X6650557.47.G.T NA NA NA  
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## X6651378.67.C.T NA NA NA  
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## X6651457.37.T.C NA NA NA  
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## X6651562.32.G.C NA NA NA  
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## X6651615.24.A.G NA NA NA  
## X6651705.42.A.G NA NA NA  
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## X6652055.48.A.G NA NA NA  
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## X6652386.55.C.G NA NA NA  
## X6652398.40.G.A NA NA NA  
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## X6652427.27.T.A NA NA NA  
## X6652438.68.G.A NA NA NA  
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## X6652564.55.A.G NA NA NA  
## X6652619.16.T.C NA NA NA  
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## X6653408.40.T.C NA NA NA  
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## X6653502.28.G.C NA NA NA  
## X6653504.7.C.G NA NA NA  
## X6653563.7.T.A NA NA NA  
## X6653593.19.T.C NA NA NA  
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## X6653755.14.T.C NA NA NA  
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## X6654038.30.G.A NA NA NA  
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## X6654066.45.C.G NA NA NA  
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## X6658198.15.T.C NA NA NA  
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## X6662892.24.C.T NA NA NA  
## X6664359.17.A.T NA NA NA  
## X6664391.17.A.G NA NA NA  
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## X6666102.30.T.C NA NA NA  
## X6654102.57.C.A NA NA NA  
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## X100022955.34.C.A NA NA NA  
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## X100073683.46.G.A NA NA NA  
## X100093512.17.C.G NA NA NA  
## X100102305.42.T.G NA NA NA  
## X100121708.34.C.G NA NA NA  
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## X6650502.55.C.G NA NA NA  
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## X6650798.22.T.C NA NA NA  
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## X6650892.52.T.C NA NA NA  
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## X6651293.36.A.T NA NA NA  
## X6651299.48.A.G NA NA NA  
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## X6651316.37.T.G NA NA NA  
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## X6651360.17.C.A NA NA NA  
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## X6651962.57.C.T NA NA NA  
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## X6652082.47.A.G NA NA NA  
## X6652128.6.G.A NA NA NA  
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## X6652328.42.T.G NA NA NA  
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## X6652430.41.A.T NA NA NA  
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## X6652444.19.A.C NA NA NA  
## X6652476.42.G.A NA NA NA  
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## X6652685.43.G.A NA NA NA  
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## X6652876.5.G.A NA NA NA  
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## X6653350.22.C.T NA NA NA  
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## X6653488.18.C.T NA NA NA  
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## X6653592.23.G.A NA NA NA  
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## X6653685.30.G.A NA NA NA  
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## X6654055.10.A.G NA NA NA  
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## X6657912.46.T.G NA NA NA  
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## X6661249.13.A.G NA NA NA  
## X6661292.48.T.C NA NA NA  
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## X6661491.67.G.C NA NA NA  
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## X6653968.66.C.G NA NA NA  
## X6653974.33.T.A NA NA NA  
## X6653991.65.G.T NA NA NA  
## X6657021.28.G.A NA NA NA  
## X6657102.16.C.T NA NA NA  
## X6657128.18.G.A NA NA NA  
## X6657132.5.A.C -5.748382e-05 4.684370e-05 0.007142857  
## X6657178.34.G.A -1.565114e-05 1.263465e-05 0.004739336  
## X6657193.53.C.T NA NA NA  
## X6657201.19.A.G NA NA NA  
## X6657204.30.A.C NA NA NA  
## X6657318.9.G.A NA NA NA  
## X6657354.8.C.T NA NA NA  
## X6657383.35.G.T NA NA NA  
## X6657458.5.C.G NA NA NA  
## X6657566.43.G.A NA NA NA  
## X6657607.43.G.A NA NA NA  
## X6657631.9.G.A NA NA NA  
## X6657655.8.T.C NA NA NA  
## X6657745.21.C.A NA NA NA  
## X6657813.21.A.G NA NA NA  
## X6657950.26.T.C NA NA NA  
## X6658016.18.C.G NA NA NA  
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## X6658074.26.C.A NA NA NA  
## X6658086.13.T.C NA NA NA  
## X6658116.19.T.G NA NA NA  
## X6658140.8.T.C NA NA NA  
## X6658176.39.C.T NA NA NA  
## X6658256.13.G.C NA NA NA  
## X6658270.50.G.T NA NA NA  
## X6658309.15.G.T NA NA NA  
## X6658382.35.G.A NA NA NA  
## X6658386.9.G.T NA NA NA  
## X6658396.48.A.T NA NA NA  
## X6658416.19.T.C NA NA NA  
## X6658448.12.A.G NA NA NA  
## X6658539.20.A.G NA NA NA  
## X6658593.6.T.C NA NA NA  
## X6658605.5.T.A NA NA NA  
## X6658616.40.G.T NA NA NA  
## X6658646.18.C.A NA NA NA  
## X6661133.7.C.G NA NA NA  
## X6661179.34.A.T NA NA NA  
## X6661195.26.A.G NA NA NA  
## X6661294.16.G.T NA NA NA  
## X6661342.14.G.C NA NA NA  
## X6661347.62.A.G NA NA NA  
## X6661359.29.T.C NA NA NA  
## X6661360.12.T.C NA NA NA  
## X6661375.25.G.A NA NA NA  
## X6661390.29.G.A NA NA NA  
## X6661411.10.A.T NA NA NA  
## X6661415.7.G.A NA NA NA  
## X6661429.43.A.G NA NA NA  
## X6661461.24.A.G NA NA NA  
## X6661525.21.A.G NA NA NA  
## X6661561.6.A.G NA NA NA  
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## X6661622.45.G.T NA NA NA  
## X100097038.21.G.A -5.647908e-04 1.799976e-02 0.008849558  
## X6661741.18.C.T NA NA NA  
## X6661767.9.T.C NA NA NA  
## X6661768.5.T.C NA NA NA  
## X6661780.15.A.T NA NA NA  
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## X6661801.15.C.T NA NA NA  
## X6662572.23.G.A NA NA NA  
## X6662577.20.C.A NA NA NA  
## X6662598.13.T.G NA NA NA  
## X6662619.18.C.T -1.409774e-04 1.174812e-04 0.013157895  
## X6662621.6.C.T NA NA NA  
## X6662686.27.C.T -5.071751e-05 4.140220e-05 0.006134969  
## X6662729.33.C.T -3.128691e-06 2.543753e-06 0.004166667  
## X6662743.22.C.T NA NA NA  
## X6662903.44.T.C NA NA NA  
## X6664062.57.T.C -6.324562e-05 5.170565e-05 0.007194245  
## X6664077.54.G.T NA NA NA  
## X6664087.35.A.T NA NA NA  
## X6664282.11.G.A -2.681225e-05 2.189642e-05 0.004807692  
## X6664352.17.T.G NA NA NA  
## X6664715.34.G.A NA NA NA  
## X6665049.6.C.T NA NA NA  
## X6665121.17.A.G NA NA NA  
## X6665508.35.A.G NA NA NA  
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## X6665540.8.G.A NA NA NA  
## X6665849.33.C.T NA NA NA  
## X6666095.7.A.G NA NA NA  
## X6666174.7.C.T NA NA NA  
## X6666520.31.G.A NA NA NA  
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## X100016251.35.G.A NA NA NA  
## X100016732.29.G.A NA NA NA  
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## X100045582.33.G.A NA NA NA  
## X100045632.7.G.A -1.122012e-05 9.127464e-06 0.004694836  
## X100064767.54.T.C NA NA NA  
## X100064928.53.G.A NA NA NA  
## X100065927.39.C.T NA NA NA  
## X100074119.31.T.C NA NA NA  
## X100082416.45.C.A NA NA NA  
## X100085968.36.G.A NA NA NA  
## X100091287.38.A.T NA NA NA  
## X100093420.8.G.A NA NA NA  
## X100104859.48.T.C NA NA NA  
## X100121707.24.C.G NA NA NA  
## X6650478.7.C.T NA NA NA  
## X6650577.59.A.G NA NA NA  
## X6650765.26.G.A NA NA NA  
## X6651007.49.A.G NA NA NA  
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## X6651237.16.C.T NA NA NA  
## X6651693.21.C.T NA NA NA  
## X6651704.49.G.T NA NA NA  
## X6651952.32.C.T NA NA NA  
## X6652155.42.G.C NA NA NA  
## X6652275.21.C.T NA NA NA  
## X6652283.16.C.T NA NA NA  
## X6652292.40.G.A NA NA NA  
## X6652303.27.C.T NA NA NA  
## X6652553.13.A.G NA NA NA  
## X6652626.33.A.G NA NA NA  
## X6652630.7.G.C NA NA NA  
## X6652656.7.T.C NA NA NA  
## X6652758.10.G.A NA NA NA  
## X6653200.23.C.A NA NA NA  
## X6653877.30.A.G NA NA NA  
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## X6656875.8.A.T NA NA NA  
## X6656924.30.G.C NA NA NA  
## X6656996.5.A.T NA NA NA  
## X6657117.41.C.T NA NA NA  
## X6657154.6.G.A 1.849959e-04 -1.496817e-04 0.007751938  
## X6657156.29.A.C NA NA NA  
## X6657483.18.T.G NA NA NA  
## X6657561.6.C.T NA NA NA  
## X6657735.31.T.A NA NA NA  
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## X6657814.9.A.G -1.794222e-05 1.455020e-05 0.004255319  
## X6657850.12.C.G NA NA NA  
## X6657942.13.C.G NA NA NA  
## X6657997.45.C.T NA NA NA  
## X6658062.30.T.G NA NA NA  
## X6658550.29.A.G NA NA NA  
## X6658582.12.C.G NA NA NA  
## X6658632.5.T.C NA NA NA  
## X6661273.54.T.A NA NA NA  
## X6661308.52.T.C -9.534220e-05 7.822320e-05 0.010309278  
## X6661408.14.C.T NA NA NA  
## X6661538.9.G.A NA NA NA  
## X6661791.66.G.C NA NA NA  
## X6661818.22.G.A NA NA NA  
## X6662638.5.A.G NA NA NA  
## X6662824.38.C.T -1.114707e-16 3.491131e-17 0.004273504  
## X6662887.8.G.C NA NA NA  
## X6663037.41.C.G NA NA NA  
## X6664882.7.A.C NA NA NA  
## X6665050.32.A.T NA NA NA  
## X6665295.5.T.C NA NA NA  
## X100019888.47.T.C NA NA NA  
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## X100045704.9.A.G NA NA NA  
## X100064586.17.G.C NA NA NA  
## X100066059.7.C.T NA NA NA  
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## X100082120.8.T.C NA NA NA  
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## X100086096.24.G.T NA NA NA  
## X100093333.41.G.C NA NA NA  
## X100098548.28.A.G NA NA NA  
## X100104693.28.T.A NA NA NA  
## X100104890.20.C.A NA NA NA  
## X100106918.8.T.C NA NA NA  
## X100086278.15.A.T NA NA NA  
## X100098561.7.T.A NA NA NA  
## X100112393.13.T.C NA NA NA  
## X6665409.19.C.A NA NA NA  
## X100106209.11.T.A 5.011480e-05 -9.346377e-05 0.012552301  
## X6652014.36.G.A NA NA NA  
## X100016895.29.G.A NA NA NA  
## X6661843.44.G.A NA NA NA  
## X6652389.64.T.C NA NA NA  
## X6661649.50.A.C NA NA NA  
## X6657666.21.A.T -5.223220e-05 9.611919e-03 0.000000000  
## X6661268.63.T.G NA NA NA  
## X100023082.28.G.T NA NA NA  
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## X6661288.45.T.C NA NA NA  
## X100021319.48.T.G NA NA NA  
## X100045470.27.C.T NA NA NA  
## X6661435.57.G.T NA NA NA  
## X100065514.5.T.C NA NA NA  
## X6630387.13.C.T NA NA NA  
## X100065726.10.C.T NA NA NA  
## X6653782.5.C.T 5.177427e-05 -4.257408e-05 0.006756757  
## X100021899.36.A.T NA NA NA  
## X100066454.16.G.T NA NA NA  
## X100065272.30.T.C -9.555080e-04 3.356643e-02 0.000000000  
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## X6653374.61.T.C NA NA NA  
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## X100022349.67.T.A NA NA NA  
## X100015942.46.A.C NA NA NA  
## X100016792.52.G.C -2.028115e-05 1.646301e-05 0.004464286  
## X100018206.33.G.A NA NA NA  
## X100064825.31.G.T NA NA NA  
## X100066202.30.T.C NA NA NA  
## X100073401.49.C.A NA NA NA  
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## X100021640.61.G.C NA NA NA  
## X100022856.29.A.C NA NA NA  
## X100023978.37.A.T -7.057900e-07 5.740660e-07 0.004545455  
## X6652591.64.T.C NA NA NA  
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## X100015796.50.T.A NA NA NA  
## X100016769.29.T.C NA NA NA  
## X100019373.29.G.A NA NA NA  
## X100023055.35.A.T NA NA NA  
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## X6661548.33.A.T NA NA NA  
## X100017088.61.C.T NA NA NA  
## X100023509.31.T.C NA NA NA  
## X100015492.43.G.A NA NA NA  
## X100018948.22.T.C NA NA NA  
## X100020108.6.G.A NA NA NA  
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## X100022438.10.G.T -1.899447e-05 1.544294e-05 0.004219409  
## X100065777.27.G.T NA NA NA  
## X6634350.32.G.T -2.436684e-05 1.983371e-05 0.004807692  
## X100015248.33.A.G NA NA NA  
## X100016465.17.G.A NA NA NA  
## X100016470.38.G.A NA NA NA  
## X100017055.22.C.A NA NA NA  
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## X100020580.5.T.G NA NA NA  
## X100020916.54.A.T NA NA NA  
## X100022162.26.G.C NA NA NA  
## X100022968.12.G.A NA NA NA  
## X100023214.50.T.C NA NA NA  
## X100023558.48.A.G NA NA NA  
## X100065527.10.A.G NA NA NA  
## X100108046.10.C.G NA NA NA  
## X6652805.19.C.T NA NA NA  
## X6653649.51.C.A NA NA NA  
## X100016806.34.T.C NA NA NA  
## X100016973.34.G.A NA NA NA  
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## X100019652.10.T.C NA NA NA  
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## X100021791.20.G.A -3.183524e-05 2.576788e-05 0.005050505  
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## X100064988.25.T.C NA NA NA  
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## X100016175.6.T.C NA NA NA  
## X100016191.14.G.A NA NA NA  
## X100018397.31.G.T NA NA NA  
## X100019542.48.A.C NA NA NA  
## X100020295.21.C.T NA NA NA  
## X100020374.38.T.C NA NA NA  
## X100021678.59.A.G NA NA NA  
## X100066638.43.T.G -1.752787e-05 1.425175e-05 0.004237288  
## X6653330.11.G.A NA NA NA  
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## X100016139.30.C.T NA NA NA  
## X100016326.61.C.T -2.848843e-05 2.315323e-05 0.005154639  
## X100016487.19.G.T NA NA NA  
## X100016577.32.A.G -6.699243e-06 5.430651e-06 0.005376344  
## X100016760.26.T.A NA NA NA  
## X100016954.51.G.A NA NA NA  
## X100017145.65.A.G NA NA NA  
## X100017289.41.G.C NA NA NA  
## X100017927.57.A.G -3.590922e-05 2.935995e-05 0.007633588  
## X100019119.41.A.C -6.868679e-05 9.146948e-03 0.000000000  
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## X100021327.23.G.A NA NA NA  
## X100022094.8.A.T NA NA NA  
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## X100082310.17.G.A NA NA NA  
## X100091292.53.C.T NA NA NA  
## X6633859.61.C.G NA NA NA  
## X6651602.9.A.G NA NA NA  
## X6653320.67.A.G -1.006579e-05 8.172605e-06 0.005263158  
## X100015805.62.G.A NA NA NA  
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## X100017432.35.A.G NA NA NA  
## X100019685.30.C.T NA NA NA  
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## X100020920.57.A.G NA NA NA  
## X100021124.31.G.T NA NA NA  
## X100021513.63.A.G NA NA NA  
## X100021836.10.G.A NA NA NA  
## X100022515.43.C.T NA NA NA  
## X100023216.57.G.T NA NA NA  
## X100023496.7.C.T NA NA NA  
## X100023681.60.G.A NA NA NA  
## X100065088.33.A.T NA NA NA  
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## X6661430.6.G.T NA NA NA  
## X6661570.26.C.T NA NA NA  
## X6661730.63.G.C NA NA NA  
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## X100017111.47.A.G NA NA NA  
## X100017208.21.G.A NA NA NA  
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## X100018144.64.A.G -1.806722e-05 1.467102e-05 0.004310345  
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## X100019677.5.A.G NA NA NA  
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## X100066253.43.C.A NA NA NA  
## X100066444.14.G.A NA NA NA  
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## X6651428.21.T.C NA NA NA  
## X6652874.33.G.A NA NA NA  
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## X100015850.40.T.C NA NA NA  
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## X100018308.19.A.G NA NA NA  
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## X100019222.23.G.C NA NA NA  
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## X100020335.6.A.C NA NA NA  
## X100021226.41.T.G NA NA NA  
## X100021502.29.G.A NA NA NA  
## X100021862.6.G.A NA NA NA  
## X100021994.17.A.G NA NA NA  
## X100022357.61.G.A NA NA NA  
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## X100023534.68.C.G NA NA NA  
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## X6661123.54.G.C NA NA NA  
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## X100015907.12.G.C NA NA NA  
## X100016631.34.T.C NA NA NA  
## X100019009.45.G.A NA NA NA  
## X100019123.42.G.A NA NA NA  
## X100019424.28.A.G NA NA NA  
## X100019445.67.A.C NA NA NA  
## X100019654.17.C.T NA NA NA  
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## X100022625.36.A.G NA NA NA  
## X100023251.49.T.A NA NA NA  
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## X6661647.17.A.C NA NA NA  
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## X100016416.52.T.A NA NA NA  
## X100016914.9.T.G -1.613717e-05 1.310273e-05 0.004166667  
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## X100018093.40.G.C NA NA NA  
## X100018383.12.A.G NA NA NA  
## X100018805.31.A.G NA NA NA  
## X100018914.23.G.A NA NA NA  
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## X100019412.18.C.T NA NA NA  
## X100019519.62.G.C NA NA NA  
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## X100020210.64.C.T NA NA NA  
## X100021670.11.G.A NA NA NA  
## X100021761.67.C.T NA NA NA  
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## X100022106.27.G.A NA NA NA  
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## X100022997.31.G.A NA NA NA  
## X100065791.46.T.C NA NA NA  
## X100066265.30.T.C NA NA NA  
## X100066487.11.G.A NA NA NA  
## X100101063.5.T.C NA NA NA  
## X6634524.57.T.A NA NA NA  
## X6652255.33.A.G NA NA NA  
## X6661618.12.C.T NA NA NA  
## X100015912.66.G.T NA NA NA  
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## X100017520.47.T.G NA NA NA  
## X100018722.5.C.A NA NA NA  
## X100019526.9.G.A NA NA NA  
## X100019891.44.C.T NA NA NA  
## X100020909.55.A.T NA NA NA  
## X100020985.50.A.G NA NA NA  
## X100021139.33.G.C NA NA NA  
## X100021214.56.G.A NA NA NA  
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## X100021313.59.A.C NA NA NA  
## X100022420.43.T.C NA NA NA  
## X100022458.29.G.T NA NA NA  
## X100022624.40.G.C NA NA NA  
## X100022691.40.C.T NA NA NA  
## X100023114.8.T.A -1.583671e-05 1.288645e-05 0.004201681  
## X100023164.37.T.C NA NA NA  
## X100023165.10.C.T NA NA NA  
## X100023475.55.A.G NA NA NA  
## X100024879.34.A.G -1.639372e-05 1.328199e-05 0.004566210  
## X6650963.31.A.G NA NA NA  
## X6650995.35.T.C NA NA NA  
## X100015203.28.T.C NA NA NA  
## X100015415.9.G.T NA NA NA  
## X100015496.59.G.T NA NA NA  
## X100015847.60.G.C NA NA NA  
## X100015873.28.A.C NA NA NA  
## X100015977.34.A.G NA NA NA  
## X100016012.21.A.C NA NA NA  
## X100016160.65.G.A NA NA NA  
## X100016617.11.C.G NA NA NA  
## X100016919.15.T.A NA NA NA  
## X100016933.17.A.C -1.290056e-05 1.046672e-05 0.004464286  
## X100017138.9.G.C 6.570248e-05 -5.329847e-05 0.004424779  
## X100017592.13.G.T NA NA NA  
## X100017929.18.A.C -2.396230e-05 1.939606e-05 0.004784689  
## X100018201.42.T.G NA NA NA  
## X100018285.15.G.A NA NA NA  
## X100018596.39.G.A NA NA NA  
## X100018944.19.C.A NA NA NA  
## X100019340.48.A.G NA NA NA  
## X100019515.10.G.A NA NA NA  
## X100019761.17.G.A NA NA NA  
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## X100020455.16.G.A NA NA NA  
## X100020993.47.T.C NA NA NA  
## X100022157.60.A.G -6.306104e-05 3.219782e-05 0.008695652  
## X100023102.7.C.T NA NA NA  
## X100045024.30.A.C NA NA NA  
## X100065312.53.G.T NA NA NA  
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## X100066423.46.G.A NA NA NA  
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## X6651275.16.A.C NA NA NA  
## X6652010.36.G.A NA NA NA  
## X6661116.34.A.C NA NA NA  
## X6664719.65.C.G NA NA NA  
## X100015734.66.G.C NA NA NA  
## X100015877.41.T.C NA NA NA  
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## X100016794.51.C.G NA NA NA  
## X100016930.62.C.T -1.603146e-05 1.302287e-05 0.004115226  
## X100016976.17.C.G NA NA NA  
## X100017073.58.C.A NA NA NA  
## X100017352.5.T.A NA NA NA  
## X100017471.13.G.C NA NA NA  
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## X100018436.8.C.T NA NA NA  
## X100018459.29.C.T NA NA NA  
## X100018601.57.C.A NA NA NA  
## X100018886.5.G.C NA NA NA  
## X100019401.38.C.A NA NA NA  
## X100019538.40.A.G NA NA NA  
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## X100019773.68.G.T NA NA NA  
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## X100021982.22.G.C NA NA NA  
## X100022352.35.G.C NA NA NA  
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## X100023435.47.T.A NA NA NA  
## X100023548.13.A.T NA NA NA  
## X100064672.55.C.T NA NA NA  
## X100091227.51.T.A NA NA NA  
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## X100015605.26.A.G NA NA NA  
## X100015623.29.T.A NA NA NA  
## X100015712.9.A.T NA NA NA  
## X100015915.16.G.C NA NA NA  
## X100016293.25.T.A NA NA NA  
## X100016319.36.T.C -2.240442e-04 1.781021e-04 0.012987013  
## X100016723.21.C.T NA NA NA  
## X100017173.15.T.A NA NA NA  
## X100017697.22.G.A -6.319828e-05 5.165562e-05 0.006578947  
## X100018492.22.T.C -4.008199e-06 3.256250e-06 0.004310345  
## X100018548.16.C.T NA NA NA  
## X100018796.68.C.T -4.057349e-05 1.259940e-05 0.009009009  
## X100018865.11.C.A NA NA NA  
## X100018936.13.C.T NA NA NA  
## X100019019.18.A.G NA NA NA  
## X100019086.21.G.A NA NA NA  
## X100019131.12.T.C NA NA NA  
## X100019765.29.C.T NA NA NA  
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## X100021253.53.T.C NA NA NA  
## X100021441.53.T.C -1.629246e-05 1.327561e-05 0.004329004  
## X100021634.50.A.C NA NA NA  
## X100021664.5.T.C -2.886013e-05 2.345011e-05 0.005617978  
## X100021900.25.G.C NA NA NA  
## X100021918.16.G.C NA NA NA  
## X100021944.59.G.C -2.093987e-05 1.705168e-05 0.004716981  
## X100022064.57.C.T NA NA NA  
## X100022439.9.G.A -1.622255e-05 1.317248e-05 0.004219409  
## X100022958.60.G.A -1.671943e-05 1.358696e-05 0.004347826  
## X100023335.10.T.C NA NA NA  
## X100066167.17.A.C NA NA NA  
## X6652225.65.T.C NA NA NA  
## X6653132.37.C.T NA NA NA  
## X6653692.35.T.A NA NA NA  
## X6661742.53.G.T NA NA NA  
## X6663972.39.G.A NA NA NA  
## X6664076.30.T.C NA NA NA  
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## X100017443.50.T.A NA NA NA  
## X100018227.9.A.G NA NA NA  
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## X100019346.5.C.T NA NA NA  
## X100019642.57.C.T NA NA NA  
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## X100020462.12.G.T NA NA NA  
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## X100021447.5.C.T NA NA NA  
## X100021487.10.A.G NA NA NA  
## X100022350.27.C.T NA NA NA  
## X100022637.44.C.T NA NA NA  
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## X100023108.17.G.A NA NA NA  
## X100023245.57.A.T NA NA NA  
## X100023390.19.G.A NA NA NA  
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## X100064984.7.A.T NA NA NA  
## X6635254.28.C.T NA NA NA  
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## X6652456.5.G.C NA NA NA  
## X6652956.28.T.C NA NA NA  
## X6653074.11.G.T -1.861556e-05 1.510231e-05 0.004608295  
## X6653246.55.C.T NA NA NA  
## X6653257.11.T.C NA NA NA  
## X6653558.37.T.C NA NA NA  
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## X100015306.34.G.T NA NA NA  
## X100017026.18.T.C NA NA NA  
## X100017183.63.A.C NA NA NA  
## X100017740.39.T.C NA NA NA  
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## X100018502.54.A.C NA NA NA  
## X100019407.9.A.G NA NA NA  
## X100019597.22.G.T NA NA NA  
## X100019799.11.C.T NA NA NA  
## X100020064.5.A.G NA NA NA  
## X100020467.61.C.G NA NA NA  
## X100021342.19.T.G NA NA NA  
## X100021726.23.G.T NA NA NA  
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## X100022073.47.G.A NA NA NA  
## X100022174.61.T.C NA NA NA  
## X100022237.64.T.G NA NA NA  
## X100022450.28.C.T NA NA NA  
## X100023247.11.G.A NA NA NA  
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## X100065743.19.C.T NA NA NA  
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## X6652006.5.C.A NA NA NA  
## X6652136.34.G.A NA NA NA  
## X6652490.28.C.A NA NA NA  
## X6653164.33.G.T NA NA NA  
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## X100015312.26.G.C NA NA NA  
## X100015717.58.T.C NA NA NA  
## X100016035.58.C.T NA NA NA  
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## X100017436.6.T.A NA NA NA  
## X100018333.8.T.C NA NA NA  
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## X100019378.46.T.C NA NA NA  
## X100019715.11.C.T NA NA NA  
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## X100020186.42.A.T NA NA NA  
## X100020325.12.G.A NA NA NA  
## X100020984.22.A.T NA NA NA  
## X100021063.19.C.T NA NA NA  
## X100021116.47.G.C NA NA NA  
## X100021276.48.T.C NA NA NA  
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## X100023352.36.C.T NA NA NA  
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## X100066449.6.A.G NA NA NA  
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## X6653042.9.A.T NA NA NA  
## X6661220.17.G.T NA NA NA  
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## X100016437.62.T.C NA NA NA  
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## X100018771.32.C.T NA NA NA  
## X100019308.38.T.C NA NA NA  
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## X100022992.63.G.C NA NA NA  
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## X6652341.11.G.A NA NA NA  
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## X6652657.13.T.C NA NA NA  
## X6653549.37.G.A NA NA NA  
## X6653926.47.C.T NA NA NA  
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## X6661795.29.A.G NA NA NA  
## X6664067.38.C.T NA NA NA  
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## X100016678.13.G.A NA NA NA  
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## X100017447.10.T.G NA NA NA  
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## X100021505.40.T.C NA NA NA  
## X100021653.13.T.G NA NA NA  
## X100021672.31.T.C NA NA NA  
## X100022109.34.G.A NA NA NA  
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## X100023017.29.A.T NA NA NA  
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## X6650736.10.G.T NA NA NA  
## X6651252.16.C.T NA NA NA  
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## X6653152.22.C.A NA NA NA  
## X6653197.10.T.C NA NA NA  
## X6653543.62.T.A NA NA NA  
## X6653729.12.T.C NA NA NA  
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## X100016237.28.C.A NA NA NA  
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## X6652446.14.G.A NA NA NA  
## X6652850.15.T.C NA NA NA  
## X6652911.22.A.G NA NA NA  
## X6653387.31.C.A NA NA NA  
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## X100022774.66.T.G NA NA NA  
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## X100023292.16.A.G NA NA NA  
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## X100045482.25.C.T NA NA NA  
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## X6651346.28.A.T NA NA NA  
## X6651709.24.A.G NA NA NA  
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## X6653390.14.T.G NA NA NA  
## X6653414.31.T.C NA NA NA  
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## X6664074.44.G.C NA NA NA  
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## X6665238.34.T.C NA NA NA  
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## X6665974.11.A.T NA NA NA  
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## X6651524.18.G.A NA NA NA  
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## X6650965.12.G.T NA NA NA  
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## X6651593.32.G.C NA NA NA  
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## X6653093.44.G.A NA NA NA  
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## X6661621.22.T.C NA NA NA  
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## X6661770.21.C.T NA NA NA  
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## X6661031.8.G.A NA NA NA  
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## X100018424.55.T.A NA NA NA  
## X100021037.43.A.C NA NA NA  
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## X100023472.27.C.T NA NA NA  
## X100023477.8.T.G NA NA NA  
## X100024933.20.T.G NA NA NA  
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## X6652421.32.C.G NA NA NA  
## X100082161.17.G.C -7.016211e-05 5.456409e-05 0.008264463  
## X6661817.22.G.A NA NA NA  
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## X6666515.7.G.A NA NA NA  
## X100015276.20.C.T NA NA NA  
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## X100019166.40.G.A NA NA NA  
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## X100022238.35.T.C NA NA NA  
## X100022761.21.C.T NA NA NA  
## X100064714.31.A.C NA NA NA  
## X100082512.27.G.T NA NA NA  
## X6635566.26.T.G NA NA NA  
## X6651319.63.C.T NA NA NA  
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## X100015522.21.A.T NA NA NA  
## X100015635.48.A.C NA NA NA  
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## X100017167.42.A.G NA NA NA  
## X100017270.46.A.G NA NA NA  
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## X100019810.41.A.G -1.674349e-05 1.362795e-05 0.004405286  
## X100020422.49.T.G -2.385872e-05 1.932063e-05 0.004672897  
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## X100016926.66.A.G NA NA NA  
## X100017163.47.A.G NA NA NA  
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## X100022347.11.T.G NA NA NA  
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## X100064727.32.C.G NA NA NA  
## X100064762.17.A.C NA NA NA  
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## X6652583.9.C.G NA NA NA  
## X6653986.35.G.A NA NA NA  
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## X100022586.32.A.G NA NA NA  
## X100023347.40.A.G NA NA NA  
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## X100018524.64.G.T NA NA NA  
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## X6653288.5.T.C NA NA NA  
## X6661743.26.G.A NA NA NA  
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## X100016206.60.T.G NA NA NA  
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## X100018254.14.G.C NA NA NA  
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## X100019505.12.C.A NA NA NA  
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## X100021373.46.G.A NA NA NA  
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## X100122660.5.A.G NA NA NA  
## X6630550.32.T.C NA NA NA  
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## X6662822.7.G.A NA NA NA  
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## X100112452.34.A.G NA NA NA  
## X6630404.40.A.C NA NA NA  
## X100103994.35.G.T NA NA NA  
## X100017343.6.T.C NA NA NA  
## X100064738.40.C.G -1.679847e-05 1.366845e-05 0.004201681  
## X100064746.17.G.A NA NA NA  
## X100074010.27.G.C NA NA NA  
## X6631936.55.T.C NA NA NA  
## X6661620.58.C.G NA NA NA  
## X100016884.51.C.A NA NA NA  
## X100065351.47.C.G NA NA NA  
## X6631698.7.C.G NA NA NA  
## X6652538.34.T.C NA NA NA  
## X6657259.24.G.A NA NA NA  
## X100016745.16.T.C NA NA NA  
## X100065233.43.G.A NA NA NA  
## X6630611.19.A.C NA NA NA  
## X6652270.62.C.G NA NA NA  
## X6652729.29.T.G NA NA NA  
## X100020530.29.C.A NA NA NA  
## X6630408.13.G.T NA NA NA  
## X6630626.34.A.T NA NA NA  
## X6631766.58.C.A NA NA NA  
## X6633539.7.G.A NA NA NA  
## X6634322.14.T.G NA NA NA  
## X6652458.12.A.T NA NA NA  
## X6653006.66.G.A NA NA NA  
## X6653115.48.T.A NA NA NA  
## X6663957.45.C.T NA NA NA  
## X100066473.39.A.G NA NA NA  
## X6650554.32.A.G NA NA NA  
## X6657465.23.T.A NA NA NA  
## X6663949.9.G.A NA NA NA  
## X100020033.33.A.C NA NA NA  
## X100082315.13.G.A NA NA NA  
## X6629848.65.C.G NA NA NA  
## X6630880.24.C.G NA NA NA  
## X6650849.38.G.A NA NA NA  
## X6650881.15.G.A NA NA NA  
## X6651487.20.C.T NA NA NA  
## X6651826.47.T.A NA NA NA  
## X6652855.33.G.T NA NA NA  
## X6657563.28.T.G NA NA NA  
## X6657811.15.G.A NA NA NA  
## X6658667.25.T.G NA NA NA  
## X6662907.9.T.A NA NA NA  
## X6665143.45.A.G NA NA NA  
## X100021831.19.T.A NA NA NA  
## X100045184.5.G.C -4.441282e-05 3.631237e-05 0.006250000  
## X100065651.20.A.C NA NA NA  
## X100066434.64.T.A NA NA NA  
## X100066660.33.T.C NA NA NA  
## X6633749.29.T.A NA NA NA  
## X6635481.20.A.G NA NA NA  
## X6650535.47.C.A NA NA NA  
## X6652320.27.G.C NA NA NA  
## X6652796.29.G.C -2.463497e-05 2.002191e-05 0.004566210  
## X6654065.42.C.G NA NA NA  
## X6657294.51.C.A NA NA NA  
## X6658085.11.A.G NA NA NA  
## X6661346.29.T.A -1.678933e-05 1.362795e-05 0.004405286  
## X6661679.17.C.T NA NA NA  
## X6662799.12.C.A NA NA NA  
## X6662831.22.C.T NA NA NA  
## X6663021.23.A.G NA NA NA  
## X100085932.36.G.C -2.595594e-05 2.100840e-05 0.004761905  
## X6630269.58.C.T NA NA NA  
## X6630995.13.C.T NA NA NA  
## X6633153.34.C.T NA NA NA  
## X6644233.38.G.T NA NA NA  
## X6650943.57.C.G NA NA NA  
## X6650961.27.T.G NA NA NA  
## X6651177.55.C.G NA NA NA  
## X6651864.18.T.C NA NA NA  
## X6652465.10.A.T NA NA NA  
## X6652776.7.C.T NA NA NA  
## X6654017.47.C.T NA NA NA  
## X6657683.10.G.C NA NA NA  
## X6657925.11.T.C NA NA NA  
## X6658404.12.T.G NA NA NA  
## X6664915.43.G.T NA NA NA  
## X100045721.8.T.A NA NA NA  
## X100082404.10.G.T NA NA NA  
## X100093333.22.G.A NA NA NA  
## X6633054.40.T.A 1.334038e-06 -1.087169e-06 0.004424779  
## X6642765.20.C.T NA NA NA  
## X6643196.21.C.G NA NA NA  
## X6653359.24.C.T NA NA NA  
## X6658471.31.G.C -1.690590e-05 1.373321e-05 0.004115226  
## X100065416.12.T.C NA NA NA  
## X6661414.26.T.C NA NA NA  
## X6664306.12.G.A NA NA NA  
## X6665409.5.T.A NA NA NA  
## X6642901.10.G.A NA NA NA  
## X100108705.8.G.A NA NA NA  
## X6665151.5.A.T NA NA NA  
## X100122090.6.T.A NA NA NA  
## X6662690.20.C.T NA NA NA  
## X100016003.7.T.A NA NA NA  
## X100016649.43.T.C NA NA NA  
## X100019431.29.C.T NA NA NA  
## X100023959.16.T.C NA NA NA  
## X100024997.62.T.G NA NA NA  
## X100044851.16.G.C NA NA NA  
## X100064658.7.C.T NA NA NA  
## X100064682.49.G.A NA NA NA  
## X100064707.51.G.A NA NA NA  
## X100064714.52.G.A NA NA NA  
## X100064753.29.A.G NA NA NA  
## X100064840.30.G.A NA NA NA  
## X100065000.48.T.C NA NA NA  
## X100065025.5.A.G NA NA NA  
## X100065087.14.G.A NA NA NA  
## X100065157.40.T.G NA NA NA  
## X100065238.55.G.T NA NA NA  
## X100065368.11.G.C NA NA NA  
## X100065400.61.A.G NA NA NA  
## X100065428.33.G.C NA NA NA  
## X100065497.38.G.T NA NA NA  
## X100065538.49.T.G NA NA NA  
## X100065597.12.A.T NA NA NA  
## X100065605.63.C.A NA NA NA  
## X100065647.9.T.C NA NA NA  
## X100065669.36.A.C NA NA NA  
## X100065706.45.G.A NA NA NA  
## X100065736.5.A.G NA NA NA  
## X100065739.9.C.T NA NA NA  
## X100065933.35.G.A NA NA NA  
## X100066025.19.T.C NA NA NA  
## X100066134.25.T.C NA NA NA  
## X100066259.18.C.T NA NA NA  
## X100066274.66.A.G NA NA NA  
## X100066332.57.T.A NA NA NA  
## X100066410.32.G.A NA NA NA  
## X100066624.60.C.G NA NA NA  
## X100082151.41.C.A NA NA NA  
## X100082232.23.T.G NA NA NA  
## X100082297.57.C.T NA NA NA  
## X100082311.43.C.T NA NA NA  
## X100082409.16.T.A NA NA NA  
## X100082418.7.T.C NA NA NA  
## X100082564.6.T.C NA NA NA  
## X100082633.21.G.A NA NA NA  
## X100086276.23.G.T NA NA NA  
## X100086585.5.G.T NA NA NA  
## X100091075.52.C.T NA NA NA  
## X100091130.54.T.C NA NA NA  
## X100093549.30.T.C NA NA NA  
## X100098502.34.A.T NA NA NA  
## X100101042.48.T.G NA NA NA  
## X100121195.12.A.G NA NA NA  
## X100121196.29.T.C NA NA NA  
## X100121197.43.C.G NA NA NA  
## X100121199.47.T.A NA NA NA  
## X100121200.51.T.C NA NA NA  
## X100122496.35.G.A NA NA NA  
## X6630263.32.T.A NA NA NA  
## X6630513.10.G.C NA NA NA  
## X6631038.8.T.C NA NA NA  
## X6631621.56.C.G NA NA NA  
## X6633643.35.C.T NA NA NA  
## X6634127.43.A.G -4.048784e-04 2.052786e-02 0.000000000  
## X6635254.35.A.C NA NA NA  
## X6641856.17.G.T NA NA NA  
## X6642355.17.A.G NA NA NA  
## X6650389.35.G.A NA NA NA  
## X6650444.8.A.G NA NA NA  
## X6650519.63.A.G NA NA NA  
## X6650553.61.C.G NA NA NA  
## X6650587.17.C.A NA NA NA  
## X6650591.24.A.G NA NA NA  
## X6650676.68.C.T NA NA NA  
## X6650899.7.G.A NA NA NA  
## X6650902.63.C.T NA NA NA  
## X6650919.10.A.G NA NA NA  
## X6651039.12.G.A NA NA NA  
## X6651054.54.C.T NA NA NA  
## X6651207.33.A.G NA NA NA  
## X6651431.65.C.G NA NA NA  
## X6651512.39.C.A NA NA NA  
## X6651635.32.C.T NA NA NA  
## X100065262.63.T.A NA NA NA  
## X6651763.26.G.A NA NA NA  
## X6651874.8.T.A NA NA NA  
## X6651879.12.C.T NA NA NA  
## X6652022.6.C.T NA NA NA  
## X100065511.46.G.C NA NA NA  
## X6652174.20.A.T NA NA NA  
## X6652193.50.G.A NA NA NA  
## X6652287.47.C.A NA NA NA  
## X6652538.35.G.A NA NA NA  
## X6652743.25.G.A NA NA NA  
## X100065924.8.G.T NA NA NA  
## X6652898.57.G.T NA NA NA  
## X6653034.66.G.A NA NA NA  
## X6653037.45.C.G NA NA NA  
## X6653161.37.C.T NA NA NA  
## X6653161.51.C.G NA NA NA  
## X6653240.43.A.G NA NA NA  
## X6653383.7.T.C NA NA NA  
## X6653394.26.G.A NA NA NA  
## X6653420.30.G.T NA NA NA  
## X6653514.60.C.G NA NA NA  
## X6653521.20.A.T NA NA NA  
## X6653525.7.A.G NA NA NA  
## X6653571.21.G.T NA NA NA  
## X6653574.48.G.T NA NA NA  
## X6653793.20.C.T NA NA NA  
## X6653861.28.C.G NA NA NA  
## X6653990.38.G.A NA NA NA  
## X6654094.56.G.T NA NA NA  
## X6654108.11.A.G NA NA NA  
## X6657811.16.C.T NA NA NA  
## X6658021.8.T.G NA NA NA  
## X6658173.44.C.A NA NA NA  
## X6658487.25.C.A NA NA NA  
## X6658616.17.G.T NA NA NA  
## X6661180.50.T.C NA NA NA  
## X6661214.14.C.G NA NA NA  
## X6661229.60.G.A NA NA NA  
## X6661236.33.G.A NA NA NA  
## X6661487.18.A.G NA NA NA  
## X6661524.9.G.A NA NA NA  
## X6661550.30.T.C NA NA NA  
## X100082471.28.C.T NA NA NA  
## X6661631.29.G.C NA NA NA  
## X100082491.60.C.T NA NA NA  
## X6661651.25.G.A NA NA NA  
## X100082562.68.C.A NA NA NA  
## X6661778.27.A.G NA NA NA  
## X6661827.57.C.G -1.079030e-04 1.039652e-02 0.000000000  
## X6661838.61.A.T NA NA NA  
## X6661845.30.A.G NA NA NA  
## X6662631.42.G.A NA NA NA  
## X6662646.5.A.C NA NA NA  
## X6662657.27.G.A NA NA NA  
## X6662765.9.A.G NA NA NA  
## X6662767.43.T.A NA NA NA  
## X6662797.33.T.C NA NA NA  
## X6663018.35.C.G NA NA NA  
## X6663941.10.G.C NA NA NA  
## X6663953.25.A.G NA NA NA  
## X6663990.56.G.T -2.311283e-04 1.300813e-02 0.000000000  
## X6664007.22.C.A NA NA NA  
## X6664018.43.T.C NA NA NA  
## X100091330.60.C.T NA NA NA  
## X6664739.19.C.T NA NA NA  
## X6665051.50.C.A NA NA NA  
## X6665130.20.T.A NA NA NA  
## X6665130.26.T.A NA NA NA  
## X6665131.16.G.T NA NA NA  
## X100109477.22.G.A NA NA NA  
## X6665563.54.C.T NA NA NA  
## X6665566.58.T.C NA NA NA  
## X6665567.59.A.G NA NA NA  
## X6665600.6.T.C NA NA NA  
## X6665637.6.G.C NA NA NA  
## X6665638.50.G.C NA NA NA  
## X6665992.26.C.T NA NA NA  
## X6666146.48.T.C NA NA NA  
##   
## $overall  
## Pop Ind Error   
## 3.93667 -33.47080 244.95118   
##   
## $F  
## Pop Ind  
## Total 0.01827464 -0.1371021  
## Pop 0.00000000 -0.1582691

#Pairwise Fst (populations)  
matFst <- pairwise.fst(gi[1:50, treatOther = FALSE])  
matFst

## 1 2 3  
## 2 -0.3540884   
## 3 -0.6989234 -0.1901033   
## 4 -0.9214085 -0.4227752 -0.5910064

#Thus there is no significant difference between populations.  
is.euclid(matFst)

## [1] FALSE

gi

## /// GENIND OBJECT /////////  
##   
## // 243 individuals; 6,364 loci; 8,334 alleles; size: 10.4 Mb  
##   
## // Basic content  
## @tab: 243 x 8334 matrix of allele counts  
## @loc.n.all: number of alleles per locus (range: 1-2)  
## @loc.fac: locus factor for the 8334 columns of @tab  
## @all.names: list of allele names for each locus  
## @ploidy: ploidy of each individual (range: 2-2)  
## @type: codom  
## @call: df2genind(X = x.mat, sep = "/", pop = gl@pop, ploidy = 2)  
##   
## // Optional content  
## @pop: population of each individual (group size range: 18-55)

div <- summary(gi)

##   
## # Total number of genotypes: 243   
##   
## # Population sample sizes:   
## Bullen Range Kambah Pool Lanyon Murramore Nerreman Tharwa Sandwash   
## 42 54 21 18 55 53   
##   
## # Number of alleles per locus:   
## 6661549|60-C/T 6650588|15-C/T 6661794|21-A/G 6664081|63-G/A 6653885|30-A/G 6661177|64-C/T 6661457|52-C/T 6653401|39-G/A 6657572|30-T/A 6661566|34-A/G 6663962|65-C/T   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6665217|18-A/G 6661207|60-A/C 6661398|51-C/T 6651899|27-T/A 6653020|28-A/C 6653704|64-T/G 6650504|59-T/C 6652003|38-G/C 6661105|11-G/T 6661432|29-C/A 6652162|44-A/T   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6653798|57-C/T 6653191|40-A/G 6664876|31-G/A 6661163|31-T/C 6652675|16-G/T 6652288|45-C/T 6650933|66-G/A 6653948|58-T/C 6663083|49-G/A 6662726|45-A/G 6664756|9-C/T   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6661688|18-A/G 6666128|43-C/G 6652433|13-A/G 6652352|5-T/C 6664270|14-C/A 6651416|17-C/T 6664751|11-T/A 6657734|47-A/G 6663081|18-A/G 6651148|64-A/T 6656916|22-T/C   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6653573|49-T/C 6661198|22-T/G 6665027|17-A/T 6664900|6-C/T 6650826|66-G/A 6653766|40-A/C 6665588|8-C/T 6652573|8-C/A 6652700|14-C/G 6664334|9-A/G 6651772|17-A/T   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6651828|36-G/A 6650476|13-A/C 6651474|15-T/C 6652836|30-C/T 6653346|25-C/A 6658563|22-C/T 6661870|10-G/T 6657169|37-T/C 6661569|7-A/G 6652342|46-G/A 6656937|18-C/T   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6661537|56-G/A 6664008|14-G/A 6651473|53-G/A 6661884|29-T/A 6662691|24-C/T 6661181|61-C/T 6651798|39-C/A 6661610|46-T/C 6653512|60-C/G 6651413|19-C/A 6651436|18-C/T   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6663093|22-C/A 6652854|20-T/C 6657907|22-C/T 6664719|5-A/G 6651857|34-G/T 6658182|11-G/A 6661203|33-G/T 100066381|65-T/C 6661291|28-A/C 6651404|67-A/G 6661583|6-T/C   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6653019|13-C/T 6661633|39-G/T 6653539|14-G/C 6652507|49-A/G 6662661|7-T/C 6661859|57-A/G 6661395|60-C/T 6661690|43-G/A 6653303|26-C/T 6650697|6-C/A 6661748|26-C/T   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6661276|34-A/G 6651590|59-C/G 6661435|48-G/A 6664012|53-A/G 6651071|8-C/T 6661174|27-G/A 6657901|34-G/A 6661288|56-T/C 6664895|15-G/A 6665065|54-A/G 6653483|52-C/T   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6652822|57-G/A 100065688|55-A/G 6661405|37-G/T 6661817|33-A/G 6651443|47-G/T 6651921|15-T/A 6654090|16-G/A 6653899|53-A/G 6661211|62-G/A 6652984|32-G/A 6661495|42-T/C   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6650679|43-C/T 6661246|33-G/A 6653043|54-C/G 6651254|12-A/T 6653789|32-G/T 6650988|24-G/A 6650862|68-C/A 6653541|8-A/G 6662900|30-G/A 6653618|37-G/A 6664721|14-C/T   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6652395|48-C/T 6661842|33-T/A 6661739|54-G/A 6652644|26-G/A 6652332|20-T/C 6651976|25-G/A 6661113|14-C/T 6661301|20-G/A 6662986|27-C/T 6653529|7-G/A 6651972|24-A/G   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6652901|58-C/T 6653167|32-C/T 6652763|59-G/A 6651610|56-G/C 6661486|27-C/T 6664344|37-A/G 6661743|17-G/A 6651212|18-A/G 6651054|64-T/A 6653313|42-A/G 6652640|45-C/A   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6653127|48-G/A 6652179|62-G/A 6664422|18-A/G 6661732|8-C/T 6658587|26-G/A 6661161|53-A/C 6657089|25-C/T 6650998|9-A/T 6652379|23-G/C 6652823|50-C/A 6653209|28-G/C   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6664750|24-C/T 6666098|18-G/A 6664416|28-A/G 6661208|26-A/T 100017494|26-T/C 6657426|10-G/T 6650467|17-T/C 6661591|23-T/C 6661615|53-A/G 6651689|52-C/T 100093282|6-C/T   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6651044|31-C/T 6663926|8-G/A 6661122|39-C/T 6653015|45-G/T 6651960|46-A/G 6658395|10-A/G 6664288|7-C/G 6651937|12-G/T 6661119|32-T/C 6653567|68-C/T 6657105|21-A/G   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6653958|12-C/T 6664417|17-G/A 6653929|22-G/A 6653560|40-C/T 6651307|58-C/T 6651918|7-T/C 6652335|27-T/C 6652403|61-A/C 6661676|25-C/T 6657686|15-A/G 6661180|15-G/A   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6664065|56-A/T 6662654|14-C/T 6661258|19-T/G 6661326|21-G/T 6661503|51-G/A 6665677|54-T/C 6651345|67-A/G 6653158|39-C/T 6661434|33-C/T 6650700|61-G/A 6665573|50-G/T   
## 2 2 2 2 2 2 2 2 2 2 2   
## 100103686|15-C/T 6661407|28-A/T 6662956|24-T/G 6653198|44-C/T 100119886|12-A/G 6653976|22-T/C 6661123|44-T/C 6661423|44-C/T 6661694|9-T/C 6653208|48-G/A 6661587|35-T/C   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6653932|10-C/T 6657861|14-G/A 6664287|35-C/T 6653108|33-A/G 6650863|33-C/T 6653166|35-T/C 6652001|24-A/G 6657913|25-C/G 100109898|15-G/A 6661240|65-T/A 6661268|13-G/A   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6653580|43-G/T 6657145|22-C/A 6661660|20-C/T 6652645|41-C/T 6651100|28-C/T 6661548|20-A/G 6657725|32-C/T 6652908|9-A/T 6661838|60-T/G 6652562|28-G/A 6654077|33-C/T   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6661761|38-G/A 6658102|52-C/T 6657350|31-T/A 6651178|33-C/T 6661253|38-T/C 100104030|16-C/A 6664895|24-C/A 6653522|21-A/G 6661899|11-A/G 6650883|48-C/T 6661607|53-C/G   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6654004|30-T/A 6653722|5-T/G 6654003|26-C/A 6652045|5-C/T 6658305|27-T/C 6657714|46-T/C 6661603|40-G/C 6650949|5-A/T 6664725|29-A/G 6657697|38-A/G 6661471|62-C/G   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6661765|40-G/A 6661481|66-A/C 6653282|53-T/C 6652110|26-C/T 6652196|51-C/T 6652944|56-G/A 6658191|17-C/G 6661286|15-G/A 6653684|7-T/C 6653203|66-A/G 6661751|44-T/G   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6661711|66-G/A 6650674|36-C/T 6653554|14-G/A 6651804|55-G/C 6664076|29-C/A 6663980|50-G/A 100102214|5-C/T 6653379|50-A/G 6651865|33-T/G 6661260|22-A/T 6651954|62-T/C   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6656942|42-G/A 6652635|57-G/A 6661149|41-C/T 6650632|65-G/A 6650568|31-G/C 6650938|6-C/T 6658511|21-A/C 6654094|65-T/C 6653106|31-C/T 6661381|44-A/G 6652779|66-A/G   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6650898|47-G/A 6657805|7-A/G 6661727|46-C/T 6662592|9-C/T 6661085|13-C/T 6661239|45-A/G 6665990|9-G/C 6650977|39-G/A 6652000|22-C/T 6658391|30-C/T 6661184|41-C/G   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6651519|67-C/G 6652011|54-C/T 6661376|29-C/T 6650669|9-A/G 100073501|45-A/G 6651742|50-G/A 6653416|29-C/T 6661643|49-G/A 6650635|62-G/A 6651529|9-C/T 6652878|58-G/T   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6665222|67-C/A 6661481|18-C/T 6665990|48-C/G 6661216|67-C/T 6663955|62-T/C 6652246|10-G/A 6661167|12-T/A 6661710|53-G/A 6664085|17-G/T 6661652|62-A/C 6657045|15-A/G   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6661805|6-C/G 6652339|26-G/T 6661277|47-G/A 6661335|49-T/G 6652597|28-C/T 6661737|51-G/T 6664079|62-A/T 6661334|49-G/T 6661187|52-C/T 6653800|24-G/A 6665242|22-G/A   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6651247|35-C/G 6653693|39-C/A 6661436|12-T/C 6650629|61-C/A 6653328|49-C/T 6650603|26-A/G 6651494|48-G/A 6652060|23-C/T 6657933|10-C/T 6651038|40-T/C 6664362|28-C/T   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6651571|67-C/T 6664050|15-A/G 6652084|30-C/T 6661846|32-C/T 6653638|33-A/C 6657305|12-A/C 6663909|36-C/T 6661305|58-A/G 6657606|35-G/A 6661206|19-A/C 6657339|6-G/A   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6657292|22-T/A 6661485|59-A/G 6650475|43-C/T 6652083|41-G/A 6663998|25-T/C 6661115|22-T/G 100102214|35-G/A 6651822|26-T/C 6653698|49-A/T 6651072|34-A/C 6661221|40-G/A   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6664084|45-C/T 6664046|47-A/G 6664412|13-G/A 6652764|38-C/T 6652859|41-C/T 6662842|43-C/T 6653459|28-T/C 6652467|20-G/T 6658444|32-T/G 6663948|54-G/A 6661848|65-T/G   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6661692|19-C/T 6661666|47-C/A 6657189|5-T/A 6663931|25-C/T 6661747|23-A/G 6664777|21-T/G 6657196|41-G/A 6662626|20-G/C 6661431|59-G/A 6651183|67-C/T 100020564|19-A/G   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6658409|20-A/C 6661097|28-C/T 6657230|7-A/G 6661119|56-G/A 6661554|36-A/G 6650618|9-G/C 6653999|19-C/T 6663991|5-C/T 6652381|42-A/T 6651915|13-C/T 6662884|19-C/T   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6664330|6-A/G 6658057|21-T/G 6664271|29-T/G 6658345|31-A/G 6664281|18-T/A 6651466|33-G/A 6651085|26-C/T 6653605|24-T/C 100044679|44-A/G 100115090|8-A/G 6661464|30-G/T   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6650884|45-C/T 6661861|5-T/C 6651870|51-T/C 6650549|15-C/T 6662909|15-A/C 6661345|10-T/C 100096951|40-T/A 6651934|39-C/A 6653561|20-A/G 6663982|40-G/A 6661677|22-C/T   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6661705|29-C/G 6661413|63-C/T 100065757|18-C/G 6661266|30-A/G 6661310|64-T/C 6661349|63-A/G 100116458|50-G/A 6665749|7-G/A 6652731|67-C/G 6653078|31-C/T 6653889|13-C/T   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6650390|62-T/A 6665512|36-G/A 6653694|33-C/T 6661130|57-A/C 6650397|43-A/G 6652725|65-G/A 6664898|31-T/A 6664740|45-G/A 6661717|60-G/A 6661866|27-T/C 6661803|57-G/C   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6653812|35-T/C 6653634|39-G/A 6653421|13-A/G 6653117|34-C/G 6652078|22-T/A 6663918|8-C/G 6651738|38-G/C 100073717|6-G/A 6662614|36-C/T 6663009|7-C/T 6665630|52-T/C   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6661118|33-G/A 6651890|7-G/A 6650967|42-C/A 6661605|18-C/T 6651286|19-T/A 6653631|43-C/T 6661436|18-C/T 6661386|46-C/T 6656991|15-A/G 6658489|9-C/T 100018527|6-C/T   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6663957|56-G/A 6653138|31-G/A 6653361|55-G/A 6662597|30-A/G 6653013|37-T/C 6664770|35-T/G 100018912|62-G/T 6650463|42-T/A 6664775|59-A/G 6651694|29-A/T 6664064|49-A/G   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6652918|18-G/A 6651840|35-G/A 6651055|13-G/A 6653477|22-A/T 6661719|26-T/A 6661828|67-T/A 6654030|47-G/A 6665066|58-G/C 6653260|47-G/T 6650860|49-G/A 6654039|20-G/A   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6665336|52-C/T 6650985|20-G/A 6665243|28-G/C 6662888|44-A/C 6665236|63-T/C 6663983|17-C/T 100066027|14-A/T 6653607|5-T/C 6661170|39-C/T 6661781|60-G/A 100073694|44-G/A   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6663947|55-T/C 6661831|54-T/C 6652266|47-T/C 6663080|20-G/A 6665672|66-T/A 6658491|28-C/A 6661680|19-G/T 6662595|39-C/T 6665990|6-A/T 6657377|47-C/T 6661828|68-T/A   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6651958|27-A/G 6653919|17-C/T 100021874|46-A/G 100016068|62-T/A 6665489|31-C/T 100082278|57-C/T 6651291|51-G/T 6653890|21-C/T 6663954|56-C/A 100021943|40-T/C 6652214|62-T/A   
## 2 2 2 2 2 2 2 2 2 2 2   
## 100022950|33-A/C 6651253|68-C/T 6650643|36-C/A 6652860|42-G/A 6664014|62-G/A 6661808|48-C/T 6658138|27-A/C 100017513|60-C/T 6661261|32-C/T 6652821|67-C/T 6666304|10-A/T   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6665455|61-G/T 100082682|51-T/C 6653384|6-A/G 100023325|25-A/G 100101067|36-C/T 6651685|49-T/A 6653586|60-T/C 6666177|13-A/T 6652540|8-G/T 6651209|49-A/G 100066244|11-A/T   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6652377|20-G/A 6661200|23-T/G 100064741|45-G/C 6658040|18-T/A 6653702|48-T/C 6652310|50-C/T 100080867|16-C/T 6665067|64-C/A 6653076|28-C/T 6653648|6-G/A 6651991|67-A/T   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6661634|15-T/G 6664050|24-G/C 6652868|58-A/G 6661564|13-A/G 6650547|43-C/G 100064827|8-G/C 6650552|61-G/A 6661602|25-T/C 6661456|61-G/A 6651197|66-T/A 6652994|27-C/T   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6661887|13-A/T 6661310|58-T/C 6650745|19-T/G 100017712|8-T/A 6651911|52-G/A 6650417|11-A/C 6652308|53-T/G 6661174|36-C/T 6651243|32-G/A 6662595|43-G/A 6661238|17-G/T   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6653091|46-C/G 6651733|50-G/A 6661209|58-G/A 6662998|47-T/C 6650989|12-C/T 6661260|32-A/C 6664754|18-T/C 6653705|22-C/A 6651897|14-A/G 6661468|27-G/A 6662877|32-C/T   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6652769|52-G/A 6657468|35-T/C 6664040|37-G/T 6654036|20-C/G 6652581|49-T/C 6663926|28-C/T 6650558|18-A/C 6650767|11-C/T 6650470|54-G/A 6652008|64-T/A 100066158|21-G/A   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6661900|39-T/C 100022191|13-A/T 6665045|39-A/T 6652766|56-A/G 6652767|24-T/A 6651271|49-G/A 6661314|26-G/A 6653619|65-T/C 100116986|5-T/C 100116987|6-T/G 6653081|42-A/G   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6664720|40-A/G 6652605|24-T/C 6661530|52-T/G 6653380|28-A/G 6661534|38-G/A 100100705|17-C/A 6661784|26-C/G 6653485|62-T/C 6658269|15-G/A 6657310|18-C/G 6653319|56-C/A   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6662895|13-G/A 6650569|12-C/A 100018011|33-A/T 6653025|64-G/A 100020592|58-C/G 6651157|23-G/A 6652995|7-T/C 6664385|5-T/G 100080823|15-G/A 100098565|15-A/G 6662594|6-A/G   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6662608|14-T/C 100111015|17-T/A 6651630|13-G/A 100015677|15-G/A 100021199|37-T/C 6651723|7-T/C 6651946|25-T/C 6652107|59-C/T 6662703|23-A/G 6656926|24-G/A 6662639|8-G/T   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6644134|13-A/C 100015999|30-C/T 6651264|67-C/T 100082192|45-T/C 6658187|20-A/G 6658030|16-T/G 6664447|43-A/G 6657081|38-A/G 6657519|27-C/A 6657646|21-G/A 6658294|22-A/G   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6663106|39-T/C 6665877|8-T/C 6657134|12-C/T 6662930|5-G/T 100073664|24-C/A 100093267|33-A/T 6665045|33-A/T 6653064|39-T/C 6652028|11-T/C 6652053|54-A/G 6661327|40-C/T   
## 2 2 2 2 2 2 2 2 2 2 2   
## 100020810|55-A/G 6661141|23-C/T 100018274|35-A/G 100020489|64-T/C 100021048|30-T/C 100021494|48-T/C 100015195|36-C/T 6652099|5-C/T 100019298|65-T/C 100020731|53-A/G 100065190|44-T/C   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6651997|59-A/G 6658436|20-C/T 6650975|51-G/A 6657565|7-G/A 6658077|34-T/C 6652620|41-C/T 6657312|42-G/A 6657368|39-G/A 6657412|9-T/G 6657526|48-C/T 6658588|11-C/T   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6662668|7-A/T 6662868|15-G/A 6663029|17-G/A 6664446|24-T/C 100086116|7-C/A 100093344|14-G/C 100098451|30-G/T 100104877|27-G/A 6656935|13-T/G 6657240|11-C/T 6657387|17-A/T   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6658126|24-C/G 6662893|11-C/G 100098564|20-T/C 100108662|16-G/A 100090375|13-A/C 6654111|67-T/C 100018022|29-C/T 100018793|30-G/A 100019919|22-G/A 100020224|39-A/G 100021950|26-G/A   
## 2 2 2 2 2 2 2 2 2 2 2   
## 100065898|33-G/A 100016342|65-A/G 6653141|47-T/A 100020182|5-A/G 100017739|16-A/G 100019425|22-T/C 100019993|60-T/C 100020111|24-T/C 100022090|7-C/A 100020509|41-C/T 100019969|57-T/C   
## 2 2 2 2 2 2 2 2 2 2 2   
## 100021750|68-T/G 6650682|7-C/T 100073640|6-A/G 6658242|13-G/A 6661085|49-C/T 6650645|14-C/G 100022464|43-T/A 100065437|41-T/C 6652497|42-C/A 6653265|58-G/C 6653475|24-G/A   
## 2 2 2 2 2 2 2 2 2 2 2   
## 100021941|30-C/T 6658496|17-G/A 6661755|16-A/C 6661423|60-C/T 100015613|67-G/A 6652888|64-A/G 6657111|13-T/C 6658119|34-T/A 6661367|26-G/T 100111976|26-A/G 100016385|11-T/C   
## 2 2 2 2 2 2 2 2 2 2 2   
## 100073644|37-C/T 6650454|46-A/G 6650627|13-T/C 6651042|67-C/T 6652424|44-T/C 6653438|30-C/T 6653954|43-A/G 6657314|43-G/A 6657355|38-G/A 6657359|15-A/G 6657460|29-G/A   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6657482|8-A/G 6657781|17-C/A 6661090|62-A/T 6661394|35-A/G 6662671|17-A/G 6662872|17-G/T 6663077|27-G/T 100080773|11-T/C 6650529|9-A/G 6651847|21-G/A 6652313|42-C/T   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6656897|6-A/T 6657147|18-G/A 6657176|29-T/G 6657326|12-G/A 6657353|6-A/G 6657411|13-G/A 6657545|31-T/C 6657603|29-G/A 6657689|26-G/A 6657743|8-C/G 6657998|8-A/G   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6658208|29-C/T 6658287|13-A/G 6658348|17-A/T 6658475|20-C/A 6658498|16-G/A 6658580|46-G/C 6661448|44-G/T 6661799|23-C/T 6662617|41-T/G 6662633|33-G/C 6662813|9-G/T   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6662843|9-A/G 6662968|7-T/C 6662976|12-A/C 6664360|25-T/C 6664442|16-C/T 6664875|15-A/G 100021224|39-C/T 100073899|13-T/C 100098800|29-G/T 100100663|9-T/A 6650431|37-G/A   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6656974|5-A/T 6657112|32-C/T 6657945|33-T/A 6658433|38-T/A 6664304|20-G/T 6664309|9-T/C 100116189|14-C/A 100045177|15-A/G 100073820|20-A/G 100086048|24-A/T 100098455|12-T/G   
## 2 2 2 2 2 2 2 2 2 2 2   
## 100098486|16-T/A 100098772|34-A/T 100112391|7-C/G 6651055|18-T/C 100086270|5-G/C 100112446|22-G/C 6661857|31-C/T 6658676|11-C/G 100016220|5-A/G 100021127|7-A/G 6665873|25-A/G   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6654134|52-T/A 100016595|6-G/A 100021410|63-C/T 100023315|21-T/C 6653760|49-C/A 100021585|32-T/G 100023219|12-A/G 6658683|43-C/T 100064732|20-A/G 100016355|33-T/C 100019393|16-C/T   
## 2 2 2 2 2 2 2 2 2 2 2   
## 100020119|15-A/G 100022894|28-G/A 100082537|56-C/T 100016273|19-A/G 100023327|12-C/T 100015858|19-C/T 100022410|6-G/A 100017258|51-G/T 100019095|48-C/T 100020063|20-G/A 100015954|31-A/G   
## 2 2 2 2 2 2 2 2 2 2 2   
## 100021964|13-G/C 100085852|36-T/C 6651226|18-G/C 100021819|62-A/C 100022277|8-T/G 100064827|60-G/T 100018209|24-G/C 100022569|31-G/A 6653298|40-A/G 100015576|20-G/A 100016155|45-A/G   
## 2 2 2 2 2 2 2 2 2 2 2   
## 100018361|5-C/T 100018644|13-A/G 100065285|54-G/A 100066085|48-C/G 100066350|63-A/G 100082653|31-C/G 100019242|15-T/C 100065918|65-C/T 100082574|16-T/C 100112503|22-T/C 6651116|23-G/A   
## 2 2 2 2 2 1 2 1 2 2 1   
## 6664424|11-C/T 100017539|66-C/A 100019104|53-C/T 100020067|42-A/C 100020868|41-A/G 100064882|50-T/C 6658317|12-A/T 6661605|7-T/C 6664288|12-C/T 100016786|17-G/A 100020956|6-T/C   
## 2 2 2 2 2 2 2 1 2 2 1   
## 100016197|32-C/T 100017640|9-C/G 100018738|55-G/T 6651375|43-G/A 6651394|40-A/T 6657692|30-G/C 6661438|21-G/A 100015230|14-A/T 100015429|54-A/G 100016348|67-T/C 100022665|32-G/A   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6650646|12-A/G 6651058|8-C/T 6652871|25-G/T 6653284|49-A/G 100020780|47-T/C 100082291|18-C/T 6657270|16-C/A 6658306|32-A/G 6663971|20-C/T 100018785|45-G/A 100019578|24-A/G   
## 1 2 2 2 2 2 2 2 2 2 2   
## 100021429|16-A/G 6651301|13-T/C 6653801|25-T/C 6662791|9-T/C 6665675|15-G/A 6665677|34-G/A 6651053|25-C/T 6651062|23-G/C 6657266|49-A/G 6661781|11-G/A 6662884|20-G/A   
## 2 2 1 2 2 2 2 2 2 1 2   
## 6661633|24-T/C 100064957|57-C/G 6650480|42-G/T 6651168|20-T/C 6651202|6-G/T 6651669|51-A/T 6651901|52-A/G 6652133|6-G/A 6652277|34-G/T 6652429|23-C/A 6652852|41-C/T   
## 1 2 2 2 2 2 2 2 2 1 2   
## 6653859|66-G/C 6657107|30-C/T 6657341|14-T/G 6657827|41-T/C 6657863|36-T/C 6657972|11-T/G 6658332|28-G/A 6661576|17-T/C 6662852|8-G/C 6665753|18-G/A 6665974|16-T/A   
## 1 2 1 2 2 2 2 1 1 2 2   
## 6665974|39-G/C 100022319|61-G/T 100066473|44-C/T 6650457|59-C/T 6650512|39-G/A 6650541|48-T/C 6650816|44-C/T 6651070|58-A/C 6651408|58-C/G 6651681|14-C/T 6651690|41-A/G   
## 2 2 2 2 2 1 2 1 2 1 1   
## 6651751|52-A/G 6651951|29-T/C 6652480|24-G/A 6652536|25-A/G 6653136|38-A/G 6653193|66-G/C 6653366|47-T/C 6653406|51-T/C 6653654|13-A/G 6653743|54-T/C 6653795|65-G/T   
## 2 2 2 2 2 2 2 2 1 2 2   
## 6656968|20-T/C 6657138|49-C/T 6657141|6-G/A 6657590|27-T/C 6657970|16-C/G 6658518|17-G/A 6658664|15-C/A 6661383|36-A/G 6661406|53-T/C 6661709|47-A/C 6661820|30-C/T   
## 2 2 2 2 1 2 2 2 1 2 2   
## 6661892|24-C/T 6662654|9-C/A 6662663|5-A/T 6663104|29-A/G 6664717|21-A/G 6665800|40-A/C 6665804|30-T/C 100018586|15-A/G 100045576|29-G/A 100064632|55-G/A 100124805|23-T/C   
## 2 2 1 2 2 1 2 2 2 2 1   
## 6650420|21-G/A 6650787|62-C/A 6650795|22-T/C 6651016|52-G/A 6651805|15-A/G 6652208|23-C/T 6652257|65-G/T 6652383|57-G/C 6652388|11-A/G 6652788|54-A/G 6652943|57-G/A   
## 2 1 2 2 1 2 2 1 1 1 1   
## 6653199|35-A/C 6653447|32-A/G 6653467|25-G/A 6653565|10-G/C 6653569|24-A/T 6654084|42-A/G 6656901|37-A/C 6656919|48-T/A 6656965|28-C/T 6657179|25-G/A 6657434|21-C/A   
## 2 2 2 1 2 2 1 2 2 2 2   
## 6657454|17-T/C 6657477|8-A/G 6657523|10-C/T 6657578|8-C/T 6657628|10-A/G 6657698|41-A/G 6657753|24-G/A 6657784|15-C/G 6657818|27-A/G 6657821|26-T/C 6657854|14-G/A   
## 1 2 2 2 2 2 1 2 2 2 2   
## 6657918|33-T/A 6657923|13-T/C 6657975|18-C/G 6658063|26-T/C 6658152|11-T/C 6658175|49-T/C 6658353|18-G/T 6658417|35-C/A 6658431|14-A/G 6658485|8-A/G 6658531|35-G/A   
## 2 2 2 2 2 2 2 2 2 1 2   
## 6661099|20-G/A 6661250|41-T/C 6661252|5-A/G 6661823|31-T/C 6661826|50-T/A 6661853|33-G/A 6662682|18-G/C 6662708|45-C/A 6662717|10-T/A 6662720|17-G/A 6663956|7-C/T   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6664324|31-T/C 6664897|36-T/G 6664904|21-A/G 6665135|35-C/T 6665977|58-C/T 100062054|9-T/G 100066053|65-C/G 100073867|18-T/C 100098449|11-T/C 100102329|39-G/C 100104849|27-A/C   
## 1 2 2 2 2 1 1 2 2 2 2   
## 100118311|8-T/G 6651728|12-T/C 6651869|31-G/A 6651992|39-T/C 6652070|15-A/G 6652698|58-A/G 6653498|29-C/G 6656984|39-A/T 6656988|16-A/T 6657054|5-A/G 6657255|43-C/T   
## 1 2 1 1 2 2 2 2 2 2 2   
## 6657257|18-T/G 6657264|21-A/C 6657486|25-A/G 6657731|27-T/C 6657762|30-T/G 6658275|5-T/C 6658351|8-T/A 6658356|40-T/A 6662713|37-C/T 6662735|7-T/C 6662802|35-T/C   
## 2 2 2 2 2 2 2 1 2 2 1   
## 6664285|14-G/T 6664286|5-A/G 6664411|22-G/A 100116189|12-G/A 100020566|50-G/A 100073416|9-G/C 100073555|13-T/C 100073946|24-C/A 100082262|34-C/T 100082279|42-T/G 100093533|7-G/T   
## 2 2 2 2 2 2 1 2 2 1 2   
## 100093556|10-T/A 100093571|9-A/T 100093658|5-T/C 100102354|38-T/G 100102368|8-T/C 100108745|39-G/C 100124806|24-A/G 6652013|36-G/A 100019613|42-A/G 6653942|18-C/G 100021748|48-G/A   
## 2 2 2 2 2 2 1 2 2 1 2   
## 100022307|64-C/T 6661279|61-A/G 100016043|65-A/G 100021551|26-C/G 6651509|9-T/C 100015681|31-G/A 100022444|19-C/T 100065978|51-A/C 100015971|32-G/A 100018341|11-C/T 100018791|30-T/A   
## 2 2 2 1 1 2 2 1 2 2 2   
## 100021444|27-G/T 6651402|31-T/C 6652371|36-A/G 100016955|21-T/C 100017267|60-T/C 100017271|28-T/A 100017633|14-G/T 100018216|18-C/T 100018585|65-G/A 100018930|7-A/G 100019458|6-T/C   
## 2 2 1 2 1 2 2 2 1 2 2   
## 100020508|64-T/C 100021998|13-T/C 100065288|30-C/T 6657675|5-C/T 100018006|38-A/G 100018907|18-T/C 100018908|67-C/T 100019522|42-C/T 100021552|23-G/T 100021990|59-T/C 100066166|11-T/A   
## 2 2 1 2 2 2 2 2 2 2 2   
## 6651977|40-G/C 6661494|35-T/C 6661600|20-T/C 100023675|41-A/G 100064707|39-C/T 100066332|9-G/A 100111975|14-G/C 100015765|23-G/A 100017875|29-A/G 100019456|25-T/C 100019962|30-A/G   
## 1 1 1 2 2 2 2 2 2 2 2   
## 100020185|57-C/A 100020870|33-C/G 100021266|13-G/A 6651172|33-A/G 100015703|20-A/G 6653988|60-A/T 100018373|30-C/T 100020483|16-G/A 100022388|34-C/T 100022854|43-G/T 100023104|56-C/T   
## 2 2 2 2 2 2 2 2 2 2 1   
## 100023409|22-T/C 100086339|36-T/G 6651925|23-G/C 100120327|18-G/A 100120327|6-G/A 100016290|59-A/C 100020594|60-T/A 100022242|47-G/T 100022320|10-T/C 100022502|23-T/A 6651745|39-T/C   
## 2 2 1 1 2 2 2 1 2 2 2   
## 6661848|25-T/G 100016236|36-G/T 100016349|39-A/G 100016910|15-T/A 100020122|19-C/G 100021092|17-T/C 100022165|12-A/G 100023470|59-G/A 6661692|56-G/A 100016458|65-C/G 100018964|48-T/G   
## 2 2 2 2 2 2 2 2 1 1 1   
## 100021554|25-A/G 100023185|19-T/G 6650701|18-A/G 6652394|37-T/C 6653506|13-T/A 6664058|35-C/T 100016479|45-A/T 100017508|19-C/G 100018962|16-T/C 100022682|11-A/T 100066335|57-A/T   
## 2 1 2 1 1 1 1 1 2 1 1   
## 100082668|8-A/T 6658494|15-A/G 100015625|54-A/G 100016249|62-A/C 100016393|18-A/T 100016660|55-C/T 100017075|58-G/A 100017124|8-A/G 100017541|11-T/A 100018026|11-T/C 100019630|31-T/C   
## 2 2 1 2 2 2 2 2 2 2 1   
## 100019855|44-T/C 100019873|44-G/A 100019915|44-G/T 100022465|65-C/G 100022648|51-G/A 100044512|21-C/T 6650696|57-G/A 6653452|20-G/A 100015340|55-T/G 100017500|23-A/C 100020588|47-C/A   
## 2 1 1 1 2 2 2 1 2 2 1   
## 100022422|51-G/T 100022425|5-T/C 100023388|34-C/A 100023484|57-G/A 100023525|29-A/G 100064648|32-T/C 100065646|5-C/A 100073396|12-C/T 100073814|33-T/C 6650655|58-G/A 6651105|51-A/C   
## 1 2 1 2 2 2 2 1 2 1 1   
## 6651192|9-A/G 6652274|53-T/C 6652608|18-G/C 6652649|33-C/G 6653266|5-T/A 6661462|57-A/G 100016352|41-C/T 100016515|37-T/A 100016629|18-T/C 100017186|6-T/C 100018441|46-A/T   
## 1 1 2 1 1 1 1 1 2 2 2   
## 100019819|59-T/G 100021768|16-G/T 100022658|14-G/A 100022749|22-C/T 100023505|21-C/G 100064613|60-T/C 6650443|20-C/T 6650647|27-A/C 6650672|16-T/C 6650875|47-G/A 6652044|30-A/G   
## 2 2 2 1 2 2 1 1 2 2 1   
## 6652814|39-C/T 6653050|59-G/T 6653245|23-A/G 6653382|37-T/C 100015237|28-T/A 100016165|7-G/A 100017157|49-G/A 100017486|22-T/G 100019175|10-C/G 100019665|26-G/A 100020841|64-T/C   
## 1 1 2 1 1 2 2 2 1 2 2   
## 100120329|23-A/G 6650705|36-C/T 6651136|7-G/C 6651295|17-C/T 6651888|7-A/G 6652092|41-A/G 6652390|29-T/C 6653344|40-A/G 100017290|62-G/T 100017981|57-C/T 100018180|55-T/C   
## 2 1 1 1 1 2 1 1 1 1 2   
## 100018460|39-T/G 100018667|65-G/A 100019573|61-A/C 100020403|29-G/T 100023540|56-T/G 100065318|8-A/G 100066600|5-T/C 100066622|14-T/C 100086014|36-T/C 100098840|27-G/A 6650711|25-C/A   
## 2 2 1 2 1 1 1 2 2 2 1   
## 6651249|51-G/C 6653001|20-G/A 6653114|14-T/A 6653811|17-T/C 6661187|29-A/C 100015694|44-A/T 100016554|8-A/G 100017386|12-G/A 100017844|43-G/A 100020562|42-C/G 100021051|67-G/T   
## 1 1 2 1 1 2 2 2 2 1 2   
## 100065266|5-T/C 6650693|44-C/T 6651276|7-A/G 6651724|68-A/G 6652175|66-T/C 6652356|17-A/G 6653008|30-C/G 6653473|47-C/T 6653869|47-T/G 6654016|14-A/G 6664729|22-C/T   
## 1 1 2 1 2 2 1 1 1 1 2   
## 6661750|65-G/A 100016089|30-C/T 100017364|16-A/G 100017568|38-A/G 100017636|20-G/A 100018230|62-T/C 100020647|25-G/A 100023048|6-T/C 100023313|65-G/T 100023842|66-T/C 6650662|57-T/A   
## 1 1 1 2 2 1 2 2 2 2 1   
## 6650857|56-T/C 6650871|15-T/G 6652354|41-T/G 6652712|18-A/G 6652897|32-G/A 6653119|17-A/G 6653277|45-G/C 6653413|34-C/T 6653686|19-A/G 6653906|8-T/C 6656936|12-G/A   
## 1 1 2 1 2 2 1 1 1 1 2   
## 6658216|16-T/C 6661637|61-A/T 6664071|59-C/T 6652420|13-T/G 100017654|43-G/C 100021742|38-C/A 100044665|10-T/G 100064985|48-C/T 100065246|12-A/G 100066557|28-C/T 100082397|38-C/A   
## 1 1 1 1 2 1 2 1 2 1 1   
## 6650620|8-A/G 6650692|56-G/A 6650978|6-G/A 6651221|15-T/C 6651235|33-A/G 6651703|33-T/C 6651891|44-T/C 6652170|11-A/G 6652463|46-A/C 6652496|43-C/T 6653226|65-A/G   
## 1 2 2 1 1 1 1 2 2 1 1   
## 6653778|39-T/A 6654074|20-G/T 6658572|16-A/G 6661139|49-C/A 6661309|12-G/A 6661345|40-C/G 6662659|12-A/C 100120331|53-T/G 100020242|53-A/G 100021807|31-T/C 100065925|36-C/T   
## 2 1 2 1 1 2 2 2 1 1 2   
## 100066073|6-T/C 100102122|31-C/A 6650428|57-G/T 6652370|62-G/A 6653373|60-G/T 6653417|48-C/G 6653777|46-G/T 6653792|53-C/A 6654058|18-T/C 6661147|26-G/C 6661226|53-C/T   
## 2 2 1 1 1 2 1 2 2 1 2   
## 6661658|19-C/T 6661670|43-T/C 6663906|23-C/T 6664040|9-G/T 100017806|36-A/G 100019553|65-G/A 100020150|48-T/C 100022824|15-T/C 100045255|15-T/C 100064683|52-A/G 100065044|38-G/T   
## 1 1 1 2 2 2 1 2 1 2 1   
## 100065331|11-A/G 100082376|10-G/T 100114017|32-T/C 6650513|52-C/T 6650793|26-A/C 6650805|11-A/G 6650968|18-A/T 6651099|28-A/G 6651150|45-T/C 6651383|67-T/G 6651541|66-T/C   
## 1 1 1 2 1 1 1 1 1 1 2   
## 6651588|49-C/T 6651711|11-A/G 6651715|59-C/G 6651731|68-G/T 6652027|41-G/A 6652109|27-A/G 6652130|35-T/C 6652152|19-T/G 6652278|43-G/C 6652658|29-A/T 6652840|16-G/A   
## 2 1 1 1 2 2 1 1 2 1 2   
## 6652867|64-C/T 6652883|26-G/C 6653149|58-C/T 6653187|24-G/T 6653229|41-A/G 6653591|11-G/C 6653796|8-T/C 6653829|21-C/A 6653872|47-G/T 6653967|40-G/A 6657086|36-C/A   
## 1 1 2 1 1 1 2 1 1 1 1   
## 6657671|40-C/T 6657902|21-T/C 6661102|10-A/G 6661477|67-A/G 6661483|14-G/C 6661530|26-C/G 6661560|54-A/G 6661564|45-T/A 6662672|28-C/A 6664046|51-T/C 6664055|23-C/T   
## 1 1 1 1 2 2 1 1 1 2 1   
## 100120332|58-C/A 100120330|33-G/T 100015220|59-C/A 100016151|11-T/C 100016562|12-G/A 100016798|34-C/T 100021467|36-G/A 100065538|21-A/T 100065912|28-G/A 100098480|21-A/C 6650742|33-G/A   
## 2 2 1 2 2 1 1 2 2 1 2   
## 6650889|38-G/T 6651263|53-A/C 6651318|7-C/T 6651340|27-C/T 6651392|24-C/T 6651403|11-C/A 6651475|6-A/G 6651645|50-G/A 6651662|13-T/A 6651726|49-G/A 6651740|27-G/A   
## 1 1 2 1 2 1 1 1 1 1 1   
## 6651858|23-A/G 6651880|60-C/T 6651889|58-T/C 6651919|45-G/T 6652026|29-G/T 6652151|12-T/C 6652259|45-G/T 6652382|40-G/A 6652492|21-C/T 6652504|25-A/G 6652541|50-A/G   
## 2 1 1 1 1 1 2 2 1 1 1   
## 6652568|29-G/T 6652593|5-G/T 6652667|36-T/C 6652794|64-C/T 6652856|20-T/A 6653235|13-T/G 6653395|26-G/A 6653420|50-G/A 6653458|58-C/T 6653463|23-A/G 6653479|25-T/C   
## 1 1 1 1 1 1 2 1 2 2 1   
## 6653599|33-C/T 6653745|15-T/C 6653871|33-G/A 6653881|45-G/A 6657644|31-G/T 6657994|16-G/A 6658139|28-G/A 6658379|30-A/G 6658529|38-A/G 6658559|22-T/G 6658652|28-T/C   
## 1 2 1 1 1 2 1 2 2 1 2   
## 6658660|28-C/G 6661093|40-C/A 6661130|16-T/C 6661369|40-T/C 6661393|35-C/A 6661665|50-T/C 6661672|7-G/A 6661712|36-C/T 6663057|27-A/C 6663982|51-T/G 6665517|21-A/T   
## 1 1 1 1 2 1 1 2 2 1 2   
## 6665665|51-T/C 6665807|65-G/A 100104824|10-C/A 100020394|66-C/G 100020441|43-A/C 100021095|9-T/C 100021324|61-A/G 100044982|27-T/C 6633176|7-T/C 6650394|45-T/C 6650524|64-C/A   
## 2 1 2 2 2 1 1 1 1 1 1   
## 6650526|41-A/C 6650616|12-C/T 6650617|39-T/G 6650695|29-G/A 6650768|33-C/T 6650776|41-A/G 6650824|6-C/G 6650856|61-G/C 6650931|6-C/T 6650932|50-A/G 6650935|64-T/C   
## 1 1 1 1 2 1 1 2 1 2 1   
## 6650950|61-A/C 6650971|13-G/A 6651076|54-T/C 6651094|7-C/T 6651112|44-A/C 6651140|51-A/G 6651141|28-C/T 6651166|8-G/A 6651232|36-T/A 6651234|42-A/T 6651248|33-A/T   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6651256|30-A/G 6651296|34-G/A 6651362|29-A/G 6651505|25-A/G 6651536|18-C/T 6651549|18-T/C 6651584|29-A/G 6651585|28-G/A 6651603|27-G/A 6651650|53-C/T 6651682|41-G/A   
## 2 1 1 2 1 1 1 2 2 2 1   
## 6651722|21-T/C 6651790|34-A/C 6651836|41-C/A 6651920|32-T/A 6651945|47-T/C 6651948|51-G/A 6651949|50-A/C 6651978|13-T/C 6651988|28-A/T 6651995|36-G/C 6651996|46-A/G   
## 1 1 1 1 1 1 2 1 1 1 1   
## 6652021|23-A/T 6652050|59-T/C 6652102|5-C/T 6652139|9-C/G 6652157|32-T/A 6652164|29-T/C 6652198|12-T/A 6652209|23-C/G 6652232|10-G/A 6652236|58-T/C 6652248|19-T/C   
## 1 2 1 1 1 2 2 1 1 1 1   
## 6652256|38-A/G 6652399|58-G/T 6652408|36-G/T 6652455|7-A/G 6652563|7-G/C 6652666|14-C/T 6652708|30-T/C 6652718|43-C/A 6652723|11-A/G 6652744|49-T/G 6652761|57-T/G   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6652809|41-A/G 6652820|37-G/T 6652865|19-C/G 6653005|35-T/C 6653010|64-G/C 6653038|53-G/C 6653130|47-A/T 6653175|37-A/G 6653237|34-C/T 6653376|49-A/C 6653396|18-A/G   
## 2 1 1 1 1 1 1 1 2 1 1   
## 6653462|51-G/A 6653499|18-A/G 6653523|14-A/C 6653530|62-T/C 6653604|19-T/A 6653643|33-G/C 6653655|16-T/C 6653725|23-C/A 6653838|44-C/T 6653994|51-G/A 6656884|31-A/G   
## 1 1 1 1 1 1 2 2 1 1 2   
## 6656889|19-A/G 6657085|18-T/G 6657130|23-G/T 6657217|6-G/T 6657267|27-G/T 6657331|17-A/G 6657391|26-A/G 6657478|16-A/C 6657485|17-C/T 6657548|20-A/G 6657600|33-G/A   
## 2 2 2 1 2 1 2 1 2 1 2   
## 6657637|34-A/C 6657667|22-A/G 6657873|49-G/A 6658002|34-T/C 6658172|30-C/A 6658300|7-T/A 6658375|19-C/G 6658441|13-C/T 6658569|13-G/A 6661094|36-A/G 6661297|9-T/G   
## 1 1 1 2 2 1 2 2 2 1 1   
## 6661311|33-T/C 6661392|20-A/G 6661396|55-T/C 6661401|35-G/A 6661459|27-G/A 6661496|33-C/G 6661598|62-A/G 6661609|59-A/C 6661636|18-T/A 6661653|9-G/A 6661756|25-G/A   
## 1 1 2 2 2 1 2 2 2 1 1   
## 6661788|59-G/T 6661804|5-T/A 6661860|33-C/T 6662701|6-A/G 6662705|5-C/G 6662826|20-C/T 6663036|30-T/G 6663052|30-A/G 6663927|13-G/A 6664053|24-C/T 6664315|17-A/G   
## 1 1 1 2 1 1 1 2 1 2 2   
## 6664393|35-G/A 100101004|14-G/C 6664748|30-C/A 6665122|15-A/T 6665280|39-G/A 6665349|39-T/A 100109477|21-T/C 6665749|9-T/C 6665804|12-G/A 6665805|15-G/A 6665809|11-A/G   
## 2 1 1 1 1 1 1 2 1 1 1   
## 6665975|52-G/A 6666169|13-T/A 6666355|23-A/G 100123948|55-T/C 100022390|44-G/A 100023236|15-G/A 100073694|7-G/A 100082381|22-C/A 100098535|7-C/G 100098787|33-A/G 100123797|15-G/T   
## 2 2 1 1 2 1 2 1 1 1 2   
## 6632181|18-G/A 6650384|58-A/G 6650392|28-C/A 6650405|15-T/C 6650425|36-A/T 6650440|25-T/C 6650441|46-C/T 6650503|7-C/T 6650511|35-A/T 6650582|52-A/C 6650601|22-C/T   
## 2 2 1 1 2 1 1 1 1 1 1   
## 6650694|13-A/C 6650707|5-A/G 6650750|63-G/A 6650751|7-T/G 6650881|41-T/C 6650887|8-T/G 6650895|17-A/G 6650942|29-A/G 6651068|27-G/A 6651106|54-A/T 6651126|7-G/A   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6651199|46-C/G 6651277|12-C/T 6651309|58-A/G 6651440|6-A/G 6651559|24-C/T 6651568|46-G/C 6651596|5-C/T 6651608|37-G/A 6651626|23-G/C 6651670|12-A/G 6651678|31-T/G   
## 1 1 1 1 1 1 1 1 1 1 2   
## 6651702|11-C/T 6651729|48-A/G 6651775|9-A/G 6651799|50-C/G 6651833|60-C/T 6651834|42-T/G 6651856|61-G/A 6651902|48-A/T 6651916|32-C/T 6651940|40-C/T 6651955|38-C/A   
## 1 2 1 1 2 1 1 1 1 1 2   
## 6652103|6-G/A 6652221|13-A/G 6652233|30-C/T 6652271|50-T/C 6652312|29-A/G 6652323|41-T/C 6652348|30-G/A 6652387|29-A/C 6652570|42-C/A 6652579|68-G/T 6652611|59-C/A   
## 1 1 1 2 1 1 1 1 2 1 1   
## 6652679|46-G/C 6652770|46-T/C 6652916|41-A/G 6652924|5-G/T 6653139|25-C/T 6653290|15-T/C 6653405|19-T/G 6653547|59-T/C 6653608|25-C/G 6653635|5-T/C 6653678|35-A/G   
## 1 1 1 1 1 1 1 2 1 1 1   
## 6653689|26-T/A 6653786|26-A/G 6653788|50-G/A 6653837|14-C/T 6653866|26-A/T 6653923|19-A/T 6653998|66-G/A 6654062|37-C/T 6654076|43-A/C 6656943|6-A/T 6656950|8-C/G   
## 2 1 2 2 1 2 1 2 1 1 1   
## 6657301|15-A/G 6657373|32-C/A 6657396|21-C/T 6657408|41-T/C 6657466|14-C/G 6657470|5-C/T 6657514|43-G/A 6657532|34-T/C 6657551|9-T/C 6657596|44-G/A 6657604|9-T/G   
## 1 2 2 2 2 2 1 2 2 2 1   
## 6657613|10-A/C 6657630|52-C/T 6657681|17-C/T 6657715|15-C/T 6657723|9-A/T 6657726|41-A/G 6657729|7-G/A 6657752|22-T/A 6657881|18-C/G 6658064|41-T/A 6658065|28-A/C   
## 2 1 2 2 2 1 2 2 1 1 1   
## 6658111|29-A/T 6658148|11-T/C 6658186|19-A/G 6658226|42-C/T 6658296|10-A/T 6658347|20-C/G 6658374|29-C/T 6658438|42-C/G 6658501|21-A/C 6658566|40-C/T 6661096|38-A/G   
## 1 1 1 2 2 2 1 2 2 2 1   
## 6661098|8-C/T 6661155|52-A/G 6661165|8-T/C 6661251|38-A/G 6661269|21-G/A 6661341|8-C/T 6661391|21-C/A 6661466|12-C/T 6661555|18-G/C 6661659|40-C/T 6661684|52-G/A   
## 1 2 2 2 2 2 1 2 1 1 1   
## 6661698|59-T/A 6661775|7-A/G 6661797|49-G/A 6662590|20-A/G 6662615|6-C/T 6662790|12-G/C 6662818|19-G/A 6662832|11-A/G 6662835|7-G/C 6662944|22-G/C 6662946|24-G/A   
## 2 1 1 2 1 2 2 1 2 2 1   
## 6662996|36-G/A 6663047|41-G/A 6663054|17-C/T 6663939|28-A/T 6663975|44-T/C 6663987|39-C/G 6664296|7-C/G 6664312|54-A/T 6664428|37-G/A 100082074|52-T/C 6664722|41-T/G   
## 2 2 2 1 1 1 1 1 2 2 1   
## 6665235|64-T/C 6665278|5-A/G 6665282|36-G/A 6665346|17-A/G 6665662|22-T/C 6665663|28-T/A 6665849|25-C/T 6665877|33-T/C 6665879|38-A/T 6666358|65-C/T 100016475|46-G/A   
## 1 1 2 2 2 2 2 2 2 1 1   
## 100016905|48-C/A 100018192|15-C/A 100018375|55-C/G 100021981|25-T/A 100045028|11-A/G 100065468|15-G/A 100065569|37-C/A 100073412|16-T/C 100073701|13-G/T 100074011|18-G/C 100082459|38-C/A   
## 2 1 2 1 2 1 1 2 2 2 2   
## 100086150|10-G/T 100086229|17-T/C 100086237|9-C/A 100091190|32-A/G 100091207|45-C/G 100091251|13-T/C 100096444|12-A/C 100098472|22-C/G 100103647|6-C/A 100107103|17-C/T 6650387|53-A/G   
## 2 1 1 1 1 2 2 2 2 1 2   
## 6650481|61-G/A 6650788|22-T/C 6651332|37-A/C 6651818|50-T/C 6651863|32-C/T 6652372|10-T/C 6652511|31-G/A 6652754|21-A/G 6652755|9-G/A 6653571|19-A/G 6653574|37-T/C   
## 1 1 1 1 1 2 1 1 1 1 2   
## 6653585|24-C/T 6657101|27-G/A 6657124|22-T/C 6657595|21-A/G 6657640|37-T/G 6657747|20-T/A 6657809|8-A/C 6657847|15-A/G 6657859|39-G/C 6657980|25-A/G 6658003|48-T/C   
## 1 2 2 2 1 2 2 1 2 2 1   
## 6658141|5-G/C 6658173|38-T/C 6658437|16-G/A 6658509|5-T/C 6658625|7-G/C 6661101|21-T/C 6661509|18-T/G 6661745|36-G/A 6661802|6-G/A 6661814|14-T/G 6662656|29-A/G   
## 1 2 1 1 1 2 1 1 1 1 1   
## 6662837|7-T/A 6662873|7-G/C 6662947|5-G/A 6663032|15-G/A 6664269|17-T/G 6664285|27-A/C 6664757|14-T/C 6664912|6-T/C 6665124|27-C/T 6665664|30-A/C 6665874|13-A/G   
## 1 1 2 2 2 1 2 2 2 2 2   
## 6665876|47-A/G 6666225|7-A/G 100065638|51-G/C 100065980|45-T/C 100073421|25-T/C 100073630|15-C/G 100073757|34-G/C 100073948|30-G/A 100074014|19-T/A 100074068|17-A/G 100082248|28-G/A   
## 2 1 1 1 1 1 1 2 2 2 1   
## 100086042|5-C/T 100093665|8-T/G 100098602|36-T/A 100098836|24-A/C 100102147|13-C/T 100121015|18-T/C 100066223|13-G/A 100106210|14-T/G 6665285|9-C/T 6661710|31-T/C 6653668|61-T/A   
## 2 2 2 2 2 2 1 2 2 1 1   
## 100024870|39-A/C 6663929|41-A/C 100019092|30-T/A 6661298|58-T/C 100016534|66-G/A 100023056|37-G/A 100082643|25-G/C 100064775|20-G/A 100023265|24-C/A 6651137|52-T/C 6652727|6-C/A   
## 2 1 1 2 1 2 2 1 1 1 1   
## 100021017|32-G/T 100073776|11-G/A 100015600|63-A/T 6665051|27-A/T 100019246|34-T/A 6651056|34-C/T 6661829|9-C/T 6665126|22-A/C 100016268|6-T/C 100020350|21-A/G 100023328|20-T/C   
## 2 1 1 2 1 2 1 2 2 2 2   
## 100066210|28-C/T 6661110|21-T/A 100018023|63-A/G 100020236|59-G/A 100021188|32-G/C 100021960|39-C/T 100023459|46-A/G 100017280|64-T/G 100018247|39-T/A 100021898|39-C/T 100022093|45-A/T   
## 1 2 1 2 1 2 2 2 2 2 2   
## 100023129|9-T/A 100023441|20-A/G 100065302|16-G/A 100066548|17-C/T 6650550|11-T/G 100016077|58-A/G 100018469|20-T/G 100019543|16-G/T 100020860|10-A/C 100022172|17-T/G 100045257|30-G/T   
## 2 2 1 1 1 2 1 1 1 1 2   
## 6650546|47-C/A 6653399|26-T/A 100015390|53-T/G 100017298|53-C/T 100017444|58-C/T 100017989|5-T/C 100018126|55-A/G 100018257|27-G/T 100018350|18-A/T 100020244|19-T/A 100021605|34-G/T   
## 1 1 2 2 1 1 1 1 2 1 2   
## 100023076|20-A/T 100023357|49-A/T 6653628|59-A/G 6661821|17-T/A 100015255|25-C/T 100015707|14-A/T 100015710|46-C/T 100016017|19-C/T 100017899|6-A/G 100019473|54-C/T 100020145|63-C/G   
## 1 1 1 2 1 2 2 2 2 2 2   
## 100021743|44-C/T 100022776|55-C/A 100023242|39-G/C 100082188|29-T/C 100015628|14-G/A 100020893|36-A/G 100021540|61-G/A 100021665|36-G/A 100022938|66-G/C 100023291|60-T/A 6661242|40-T/A   
## 1 1 2 1 1 1 1 2 1 1 1   
## 6661353|60-C/T 100016201|10-C/T 100016537|37-T/G 100016842|18-C/T 100016876|65-C/T 100016987|65-G/A 100017504|59-C/A 100019821|57-T/A 100020901|34-T/C 100021671|8-G/A 100021969|10-T/C   
## 1 2 1 2 1 1 2 1 1 2 2   
## 100022199|66-G/A 100022545|35-T/C 100022573|13-G/C 100022831|52-G/A 100066558|7-C/T 100016263|30-C/G 100016306|10-A/T 100017198|10-T/A 100017275|13-A/G 100017509|15-C/G 100018032|68-T/C   
## 1 1 1 2 1 1 1 1 1 1 2   
## 100018336|6-C/T 100018672|56-G/T 100019100|44-G/T 100019286|14-C/G 100019912|15-C/T 100020907|14-C/T 100021161|47-T/A 100021810|7-T/C 100023367|18-C/T 100064740|15-A/T 6653264|41-A/G   
## 1 1 1 1 1 2 1 1 1 1 1   
## 6663072|37-T/A 100016098|7-T/C 100016143|59-T/C 100016740|12-A/C 100016777|38-T/C 100018407|47-C/A 100018609|48-C/T 100019034|62-G/A 100019293|6-G/T 100019468|41-G/A 100019644|45-T/C   
## 2 1 1 1 1 1 1 1 1 1 2   
## 100019745|64-C/T 100021138|40-C/T 100022777|45-C/T 100066874|50-C/A 100091157|27-T/G 6652941|42-T/C 6653902|40-C/T 6664728|12-C/T 100015633|60-A/G 100016193|8-T/A 100017485|19-T/C   
## 2 1 1 1 1 2 2 2 1 1 1   
## 100018162|27-C/T 100019061|21-G/C 100019334|15-C/T 100019756|22-T/C 100020056|55-G/T 100020924|20-C/T 100022009|9-G/A 100022323|36-A/G 100022703|5-T/C 100023049|42-G/A 100023218|64-G/T   
## 1 1 1 1 2 1 1 1 1 1 2   
## 100023269|66-A/G 100024832|25-T/C 100044738|8-C/T 100065081|38-C/T 100065706|32-G/A 100096952|53-C/A 6651239|56-C/A 6651495|32-A/G 6652638|14-C/A 6653296|13-A/C 6661158|36-C/T   
## 2 1 2 1 2 1 1 1 1 1 2   
## 100015381|11-T/A 100015413|40-A/T 100015882|61-G/T 100017512|41-A/C 100018395|5-T/C 100019423|68-C/G 100019434|60-G/T 100019704|32-C/G 100019785|27-T/C 100021066|30-G/A 100021425|47-C/A   
## 1 1 2 1 2 2 1 1 2 1 1   
## 100021475|63-A/T 100021915|65-G/A 100022373|12-A/G 100022606|28-T/C 100022910|49-A/G 100025041|57-G/A 100044554|19-G/A 100064948|49-T/A 100065362|20-C/T 6650752|20-T/A 6652176|15-T/C   
## 1 2 1 1 1 1 1 1 1 1 1   
## 6653696|11-C/T 6662909|25-T/C 100015291|39-T/G 100016129|26-G/A 100017225|65-T/C 100017536|38-A/T 100017676|8-G/A 100019216|7-C/G 100019420|52-C/G 100019494|63-G/T 100020318|21-C/T   
## 1 1 1 1 1 1 1 1 1 2 1   
## 100020532|11-T/G 100020604|29-A/G 100020745|51-A/C 100021499|21-G/C 100021838|13-T/A 100021978|37-T/C 100022031|7-T/A 100022223|45-A/G 100023499|68-G/T 100023507|21-G/A 6634782|49-G/A   
## 1 1 2 1 1 1 1 1 2 1 2   
## 6650656|12-T/G 6652475|14-A/T 6661333|17-C/T 100015448|67-A/T 100015469|19-T/A 100015537|12-C/T 100015992|7-C/A 100016029|18-C/T 100016274|21-C/T 100016854|18-G/T 100017144|48-G/A   
## 1 2 1 2 1 1 1 1 1 1 2   
## 100017489|57-G/A 100017909|16-T/C 100018611|43-C/A 100018927|63-G/C 100019035|27-T/A 100019236|16-C/T 100020671|26-T/C 100021001|60-T/A 100021318|46-C/G 100021549|61-A/C 100021863|20-C/T   
## 1 2 2 1 1 2 2 2 1 1 2   
## 100023205|16-G/T 100044711|34-G/A 100064599|63-A/C 100065680|37-G/A 100118396|21-A/G 6651534|52-G/A 6651570|59-C/T 6652200|26-G/A 6652872|49-G/A 6654031|17-C/T 6661376|52-G/A   
## 1 2 1 1 2 1 1 1 1 2 2   
## 6662917|14-G/T 6666226|12-T/G 100015950|5-A/G 100016109|31-A/T 100016805|54-A/G 100016861|15-T/C 100017893|45-T/C 100018244|41-A/T 100018636|16-G/A 100018890|25-T/C 100018982|31-A/G   
## 1 1 1 1 1 2 1 1 1 1 1   
## 100019094|40-C/T 100019137|21-G/C 100019699|26-G/C 100020118|29-C/T 100020890|29-C/T 100021219|23-C/T 100021521|57-T/G 100022288|6-G/C 100022337|30-A/G 100022554|22-T/C 100023064|19-G/A   
## 1 1 1 1 2 1 1 1 1 1 2   
## 100045690|24-G/A 6650514|37-T/A 6651982|15-T/A 6653247|28-A/C 6653292|47-C/G 6653430|58-A/G 6653481|64-T/C 6653533|6-C/A 6653865|59-A/C 6661831|60-G/A 100015200|15-A/C   
## 2 1 2 1 1 1 1 1 1 1 1   
## 100015297|26-C/T 100015382|10-T/A 100017834|8-C/T 100020258|46-C/T 100021617|53-T/C 100021932|18-G/T 100022038|23-C/A 100022622|15-A/G 100022667|15-C/T 100022800|24-C/A 100022903|55-C/T   
## 2 1 1 1 1 1 2 1 1 1 1   
## 100023130|51-G/C 100023154|5-T/C 100023531|17-A/G 100045599|24-A/G 100065227|31-T/C 100065691|24-C/T 100066039|22-G/A 100066092|14-C/T 100074069|38-T/C 100106301|19-A/G 6650690|47-A/G   
## 1 1 1 1 1 1 1 2 1 1 2   
## 6651361|32-G/A 6652061|58-G/A 6652327|54-A/T 6653204|40-A/G 6653393|35-C/A 6653673|65-A/G 6653746|33-C/A 6661305|25-C/G 6664067|16-C/A 6664716|12-T/C 100015645|28-C/T   
## 2 1 1 1 1 1 1 1 1 1 1   
## 100016045|44-C/T 100016331|42-T/C 100017699|11-G/A 100018593|39-G/A 100018814|46-A/G 100019003|20-A/T 100019081|63-A/T 100019377|57-G/A 100019413|55-T/G 100019588|52-G/A 100021006|21-C/T   
## 1 1 2 1 2 1 1 1 2 1 1   
## 100021094|7-C/G 100022208|18-A/C 100022310|31-G/A 100022384|48-G/A 100022899|42-C/G 100108128|12-A/T 6650846|64-A/G 6650911|65-G/A 6651088|5-A/C 6651399|12-C/A 6652520|9-A/G   
## 1 1 2 2 1 2 1 1 1 1 2   
## 6653133|15-G/A 6653564|53-G/A 6653709|31-G/A 6653720|68-C/A 6653797|40-A/T 6653874|10-G/T 6653907|59-A/G 6653965|43-A/G 100065805|29-G/T 6661880|32-C/T 100015400|35-T/C   
## 1 1 1 1 1 1 2 1 2 2 2   
## 100016174|6-C/A 100016241|19-C/T 100016653|31-G/A 100017080|12-A/T 100017172|64-G/C 100017659|13-G/A 100017936|42-T/C 100018252|52-A/G 100018331|42-G/A 100019441|49-A/T 100020597|8-T/A   
## 1 1 2 2 1 1 2 2 1 2 1   
## 100020814|67-G/A 100022284|10-G/A 100022341|63-A/G 100023203|29-C/G 100023334|6-G/T 100023527|5-T/A 100082625|32-A/G 6631600|18-G/A 6634219|54-C/T 6650605|38-G/A 6650666|57-T/A   
## 1 1 1 1 1 1 1 2 2 2 2   
## 6650850|54-G/C 6651176|17-T/A 6651223|56-T/G 6651266|67-C/T 6651497|13-G/A 6651500|53-T/A 6652020|49-C/T 6652396|20-C/T 6652765|20-C/T 6653179|35-C/A 6653588|36-G/A   
## 1 1 2 1 2 1 2 1 2 2 1   
## 6653617|17-C/G 6653803|13-C/G 6653921|17-G/A 6654071|34-C/T 6658453|44-C/T 6662623|41-C/T 100015396|38-G/A 100015614|19-G/A 100015961|7-A/G 100016361|49-G/A 100016600|22-G/C   
## 1 1 1 1 2 1 1 1 1 1 1   
## 100017130|57-T/G 100017328|47-G/A 100018645|27-A/G 100018647|11-T/C 100019579|57-A/G 100019755|66-T/A 100020516|10-T/C 100021870|45-T/C 100022119|34-G/A 100022158|40-C/G 100022170|46-A/G   
## 1 1 2 1 2 1 2 1 2 1 1   
## 100022467|38-A/C 100022708|55-T/C 100023428|39-C/A 100064901|22-G/A 100066583|50-G/C 100082198|48-A/G 100082209|53-T/A 100114666|37-A/T 6650551|48-A/C 6650640|8-G/T 6651037|14-A/C   
## 1 2 1 1 1 2 2 1 1 1 1   
## 6651123|16-G/T 6651198|35-C/T 6651548|20-C/G 6652349|48-A/C 6652912|31-C/T 6652960|9-G/T 6653047|24-C/T 6653111|54-G/C 6653182|48-A/G 6653306|31-C/A 6653329|47-T/C   
## 1 2 2 1 1 1 1 1 1 2 1   
## 6653695|53-T/C 6657908|24-T/C 6658488|17-G/A 6661172|54-T/C 6661256|38-C/G 6665238|10-A/T 100016051|64-C/A 100016065|42-C/A 100016173|67-C/G 100016227|33-T/G 100016734|15-A/G   
## 2 2 1 1 2 1 1 1 1 1 1   
## 100017686|33-G/C 100017703|8-T/C 100017977|13-T/C 100018439|16-T/C 100020203|19-G/A 100021102|63-A/C 100021231|28-T/G 100021723|29-T/G 100022522|40-C/T 100022709|6-G/A 100045624|6-C/G   
## 1 1 1 1 2 1 1 2 1 1 1   
## 6650668|41-T/C 6650746|17-T/C 6650807|17-C/T 6650886|31-G/A 6650934|11-G/A 6651435|37-C/T 6651778|31-G/A 6651783|65-C/T 6652191|59-C/T 6652464|36-A/G 6652873|35-C/G   
## 1 1 1 1 2 1 1 1 2 1 1   
## 6653077|56-T/C 6653537|32-A/G 6653577|27-G/A 6653747|15-A/G 6661083|6-C/T 6661240|52-C/A 6661424|62-T/C 6661830|19-T/C 6665513|19-G/C 6661486|13-G/C 100015240|23-G/A   
## 1 2 1 1 1 2 1 1 1 1 2   
## 100016947|13-A/G 100018671|65-G/A 100019864|8-C/G 100019949|8-C/T 100020694|31-T/C 100022684|13-T/A 100022926|58-G/T 100023200|68-C/T 100044609|42-A/G 100065342|51-C/T 100066803|48-A/G   
## 1 1 1 1 1 2 1 1 1 1 1   
## 100085950|35-A/G 100108060|20-G/C 6630419|14-G/A 6650581|35-C/G 6650628|40-T/C 6650650|35-G/T 6650684|65-A/T 6650719|47-G/A 6650735|38-G/C 6650879|60-C/T 6651049|16-C/G   
## 1 1 2 1 1 1 1 1 2 1 1   
## 6651124|38-C/T 6651144|62-T/C 6651167|41-A/G 6651516|36-T/G 6651679|24-G/A 6651984|7-T/A 6652023|10-G/A 6652091|50-T/A 6652242|32-G/A 6652409|10-T/C 6653236|64-T/C   
## 1 1 1 2 1 1 1 2 1 2 1   
## 6653348|13-G/A 6653637|32-G/T 6653657|58-T/C 6653943|15-G/T 6653959|63-A/G 6654028|68-A/G 6654050|51-G/T 6654072|32-C/A 6657061|32-A/G 6661522|65-A/G 6665120|10-A/G   
## 1 1 1 1 2 1 1 1 1 1 1   
## 100120328|20-T/C 100120333|61-G/A 100065668|5-T/C 100015835|6-C/T 100016061|39-G/C 100016656|14-T/C 100017602|16-G/A 100019319|48-T/C 100019777|21-G/C 100021190|47-T/C 100022177|66-A/G   
## 1 2 1 1 2 1 1 2 1 2 1   
## 100023241|6-T/C 100044452|9-C/G 100065422|7-G/A 100066442|52-G/A 6650473|26-A/G 6650482|38-T/C 6650496|24-C/T 6650610|24-T/A 6650644|49-A/G 6650834|54-C/A 6650842|16-G/T   
## 1 1 1 2 2 1 1 1 1 1 1   
## 6651138|26-A/T 6651261|54-G/A 6651453|19-A/C 6651597|59-A/G 6651744|34-A/T 6651756|62-G/A 6651812|33-C/T 6651980|42-A/G 6652201|21-C/A 6652243|14-C/G 6652864|38-C/T   
## 1 1 1 1 1 2 1 1 1 1 1   
## 6653219|11-G/C 6653248|20-T/C 6653427|25-A/G 6653971|28-A/T 6657006|6-C/A 6657540|27-G/A 6661088|54-C/T 100082471|46-T/C 6661706|26-T/C 6664071|6-G/A 100016295|41-G/T   
## 1 1 1 1 1 1 1 2 1 1 1   
## 100018466|44-G/A 100020140|32-T/C 100020690|9-T/G 100020765|38-G/C 100021275|46-C/T 100045738|12-T/A 100082496|60-G/T 6650712|28-A/C 6650913|49-A/G 6650972|30-C/T 6651222|59-G/A   
## 2 2 1 1 1 1 1 1 1 1 2   
## 6651438|51-T/C 6651492|20-G/A 6651654|52-A/G 6651829|48-G/A 6651860|44-T/G 6651877|63-C/T 6651935|33-C/T 6651974|35-C/T 6651986|27-T/C 6652262|36-T/C 6652560|9-A/T   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6652688|16-G/A 6652875|8-C/G 6653021|18-A/G 6653263|25-G/C 6653294|9-G/A 6653410|59-G/C 6653536|55-G/A 6653603|22-T/C 6653802|50-G/C 6653830|13-C/T 6653963|35-C/T   
## 1 1 1 1 1 1 1 2 1 1 2   
## 6654043|16-A/G 6658028|40-G/C 6661349|14-C/A 6661568|63-A/T 6661747|28-T/C 6663960|60-T/C 6663980|14-A/G 100019622|48-T/A 100019802|12-C/T 100020020|13-G/A 100021576|15-T/C   
## 2 1 1 1 1 2 1 1 2 1 1   
## 100022394|27-C/T 100023389|57-T/G 100023502|39-T/A 100073839|28-C/G 6635439|23-T/C 6650563|22-C/T 6650688|61-A/G 6650747|16-A/C 6650772|42-C/A 6650861|34-T/A 6651030|62-A/T   
## 1 1 2 2 2 1 1 1 1 1 1   
## 6651225|58-T/C 6651322|19-G/A 6651329|44-C/A 6651331|12-T/A 6651353|65-C/A 6651374|45-A/G 6651589|18-T/A 6651687|45-A/G 6651748|42-G/T 6651933|62-A/G 6652449|21-T/C   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6652527|63-C/A 6652542|24-G/C 6652684|46-A/G 6652730|63-C/G 6652782|44-C/T 6652925|43-T/C 6653316|17-T/A 6653365|26-A/G 6653370|22-C/T 6653474|66-G/A 6653556|52-A/C   
## 1 1 1 1 2 2 1 1 2 1 1   
## 6653733|18-G/T 6653741|19-T/C 6653765|48-T/C 6653879|16-T/C 6654049|52-T/A 6657335|32-G/A 6658312|10-A/G 6661127|7-A/C 6661289|11-T/C 6661380|15-T/G 6661529|31-T/C   
## 1 1 1 1 1 1 1 1 1 2 1   
## 6661563|46-C/A 6661785|56-A/G 6661832|23-C/T 6663079|11-G/A 6665675|20-A/G 6666102|6-C/T 100121706|16-C/T 100015265|55-C/A 100015554|25-A/G 100017634|45-C/T 100018229|31-T/A   
## 1 1 2 1 2 1 1 1 1 1 1   
## 100018597|37-C/G 100018998|48-T/C 100019106|32-T/C 100093589|24-T/C 6632259|35-G/A 6632582|5-C/T 6650532|52-G/A 6650756|47-A/G 6650830|17-G/A 6650851|66-A/T 6650928|5-A/C   
## 1 2 1 1 2 1 1 1 2 1 1   
## 6650987|34-A/G 6651080|35-C/T 6651107|37-G/A 6651110|32-G/T 6651196|62-C/A 6651288|46-T/C 6651442|63-C/T 6651613|49-C/A 6651658|42-A/T 6651720|6-A/G 6651765|63-C/G   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6651802|34-G/T 6651873|50-T/C 6651874|53-T/A 6651906|20-T/A 6651943|26-G/A 6651957|58-G/A 6652104|41-C/G 6652143|61-T/G 6652149|28-A/G 6652158|57-C/T 6652181|32-G/A   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6652211|12-C/T 6652240|22-G/A 6652269|40-C/T 6652459|65-C/T 6652473|56-G/T 6652516|46-A/G 6652757|25-T/C 6652797|7-G/T 6652811|14-C/T 6652891|17-T/C 6652914|32-A/G   
## 1 1 1 2 1 2 2 1 1 1 1   
## 6652922|32-G/A 6653051|5-G/C 6653071|48-C/T 6653276|22-T/C 6653337|5-T/C 6653343|21-C/G 6653392|28-C/G 6653404|15-T/C 6653456|52-A/G 6653484|18-G/A 6653641|8-G/A   
## 1 1 1 1 1 1 1 1 2 1 1   
## 6653669|32-C/T 6653732|48-A/T 6653735|8-T/G 6653739|44-G/C 6653814|28-G/A 6653826|65-T/G 6653844|35-A/G 6653895|16-A/G 6653898|20-C/A 6653961|15-T/C 6654048|23-G/A   
## 1 1 1 1 1 1 1 1 1 2 1   
## 6657273|10-C/G 6657733|25-C/T 6657825|20-A/C 6658114|32-C/G 6658233|5-T/G 6658363|20-A/C 6661157|31-A/G 6661223|43-A/T 6661238|20-T/G 6661454|19-A/G 6661478|59-G/T   
## 1 1 2 1 1 1 1 1 1 1 1   
## 6661581|31-C/T 6661584|33-A/T 6661734|17-A/G 6662610|35-C/T 6663909|13-G/T 6664051|46-A/C 6665119|8-A/G 6666170|15-A/C 6666170|17-G/A 6666170|6-G/A 100018529|16-G/A   
## 1 1 1 1 1 1 1 1 1 1 2   
## 100019109|54-C/T 100020873|6-C/G 100020968|7-A/G 100021983|42-A/C 100022525|11-T/A 100065722|64-T/C 6650393|5-T/C 6650424|56-T/C 6650439|56-G/A 6650466|32-T/C 6650505|17-A/G   
## 1 1 1 2 1 2 2 1 1 1 2   
## 6650506|45-A/C 6650533|15-G/T 6650557|47-G/T 6650621|36-G/A 6650631|22-C/T 6650685|22-A/T 6650724|18-T/A 6650838|22-C/T 6650866|40-T/C 6650867|54-T/C 6650893|22-G/A   
## 1 1 1 1 1 1 1 1 2 1 1   
## 6650917|35-C/T 6650920|31-G/C 6651018|30-A/C 6651060|22-T/C 6651146|26-G/A 6651378|67-C/T 6651387|24-T/A 6651391|45-G/A 6651444|17-T/C 6651450|54-T/G 6651457|37-T/C   
## 1 1 1 1 1 1 1 2 1 1 2   
## 6651484|65-A/G 6651503|6-A/G 6651510|59-A/G 6651537|19-A/C 6651552|29-C/T 6651562|32-G/C 6651569|33-T/G 6651580|22-T/A 6651606|13-T/C 6651612|31-C/T 6651615|24-A/G   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6651705|42-A/G 6651737|5-C/T 6651892|35-T/C 6651930|26-G/C 6651938|17-A/C 6652055|48-A/G 6652132|43-T/C 6652144|17-G/A 6652212|22-A/G 6652231|38-C/A 6652386|55-C/G   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6652398|40-G/A 6652413|28-C/A 6652427|27-T/A 6652438|68-G/A 6652494|24-T/C 6652515|15-A/G 6652518|57-T/C 6652535|53-G/T 6652564|55-A/G 6652619|16-T/C 6652816|67-C/G   
## 1 1 1 1 1 2 1 1 1 1 1   
## 6652945|37-C/A 6653041|46-A/G 6653142|49-C/A 6653144|56-G/T 6653148|46-A/C 6653163|62-T/C 6653369|63-C/T 6653408|40-T/C 6653429|7-A/G 6653439|17-G/C 6653493|47-C/T   
## 1 1 2 1 1 1 1 1 1 2 1   
## 6653501|7-C/T 6653502|28-G/C 6653504|7-C/G 6653563|7-T/A 6653593|19-T/C 6653740|20-C/T 6653755|14-T/C 6653790|16-T/G 6653834|11-T/C 6653851|28-A/C 6653936|33-A/C   
## 1 1 1 2 1 1 1 1 2 1 1   
## 6653989|22-G/A 6654038|30-G/A 6654047|8-G/A 6654066|45-C/G 6657075|25-A/C 6657215|14-A/T 6657652|33-T/C 6658198|15-T/C 6658380|19-G/A 6658597|10-T/C 6661103|59-T/C   
## 1 1 1 1 2 1 1 1 1 2 2   
## 6661108|53-A/G 6661557|11-G/A 6661627|50-T/C 6661879|7-T/C 6662888|24-C/A 6662892|24-C/T 6664359|17-A/T 6664391|17-A/G 6664780|11-C/T 6665039|22-C/G 6666100|22-C/T   
## 2 2 1 2 1 1 1 1 2 1 1   
## 6666102|30-T/C 6654102|57-C/A 100016395|29-T/C 100020724|58-C/T 100022521|22-C/T 100022955|34-C/A 100045457|17-G/A 100073683|46-G/A 100093512|17-C/G 100102305|42-T/G 100121708|34-C/G   
## 1 1 2 2 1 1 2 2 1 1 1   
## 6650447|47-T/C 6650456|36-A/G 6650499|21-C/T 6650502|55-C/G 6650518|44-C/T 6650566|9-A/G 6650589|18-C/T 6650595|24-C/T 6650602|41-G/A 6650625|38-T/C 6650630|7-C/G   
## 2 1 1 1 2 2 1 2 2 1 1   
## 6650642|21-G/A 6650708|55-C/A 6650731|33-G/A 6650777|15-G/C 6650798|22-T/C 6650874|54-T/G 6650892|52-T/C 6650926|30-T/C 6650951|18-A/G 6650983|20-T/G 6651002|11-G/T   
## 1 1 1 1 1 1 1 1 1 1 2   
## 6651006|19-G/A 6651015|9-T/A 6651028|11-C/T 6651064|34-C/G 6651075|68-C/T 6651082|17-A/G 6651108|57-A/T 6651169|15-T/C 6651211|35-G/A 6651214|29-G/C 6651218|36-A/G   
## 1 1 1 1 1 1 1 1 1 1 2   
## 6651236|9-A/C 6651265|9-G/A 6651293|36-A/T 6651299|48-A/G 6651311|22-C/T 6651316|37-T/G 6651339|7-G/A 6651360|17-C/A 6651411|25-A/G 6651455|40-A/G 6651480|6-A/C   
## 1 1 1 1 2 1 1 2 1 2 1   
## 6651535|17-G/C 6651553|40-C/T 6651633|11-G/C 6651642|43-A/C 6651652|13-T/A 6651653|46-A/T 6651666|39-C/A 6651668|54-T/C 6651692|43-T/C 6651779|57-A/G 6651819|25-G/C   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6651894|54-A/G 6651913|20-A/G 6651928|6-C/T 6651950|10-C/T 6651962|57-C/T 6651979|59-G/T 6652004|68-A/T 6652041|41-T/C 6652076|24-T/G 6652082|47-A/G 6652128|6-G/A   
## 1 1 1 1 2 2 1 1 1 1 1   
## 6652178|42-C/T 6652228|29-C/T 6652229|59-T/C 6652252|11-C/T 6652279|53-A/T 6652302|43-G/A 6652328|42-T/G 6652402|15-A/G 6652405|52-T/C 6652430|41-A/T 6652442|59-A/G   
## 2 1 2 1 1 1 1 1 1 1 1   
## 6652444|19-A/C 6652476|42-G/A 6652478|11-G/T 6652495|5-G/A 6652517|8-A/G 6652531|35-T/C 6652633|57-C/A 6652685|43-G/A 6652711|52-C/T 6652775|11-G/A 6652812|20-T/C   
## 1 1 1 1 1 1 1 1 2 1 2   
## 6652825|12-T/C 6652846|44-A/G 6652876|5-G/A 6652899|47-T/G 6652923|25-T/A 6652938|38-G/A 6652954|34-G/A 6652977|48-A/C 6653056|35-C/G 6653113|5-G/A 6653221|12-A/T   
## 1 1 1 1 2 1 1 1 1 1 1   
## 6653285|45-G/C 6653299|45-T/C 6653300|45-T/C 6653301|16-C/T 6653302|10-C/T 6653314|19-C/A 6653350|22-C/T 6653402|19-G/T 6653488|18-C/T 6653495|56-A/T 6653519|51-A/G   
## 1 2 1 2 1 1 1 1 1 2 1   
## 6653534|60-C/T 6653576|42-C/A 6653592|23-G/A 6653671|64-C/A 6653680|17-G/A 6653685|30-G/A 6653711|10-T/A 6653718|49-A/C 6653737|54-G/A 6653753|52-T/C 6653780|36-C/G   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6653880|38-A/G 6653900|13-T/A 6653944|44-G/A 6653977|55-A/G 6653997|67-G/A 6654006|12-T/C 6654014|37-G/A 6654041|11-A/G 6654055|10-A/G 6654086|14-G/A 6654088|35-T/A   
## 1 1 1 1 1 1 1 1 1 2 1   
## 6656956|22-A/G 6657047|46-C/T 6657188|43-C/G 6657327|42-G/C 6657536|7-A/G 6657721|47-G/C 6657808|17-T/A 6657912|46-T/G 6658001|44-A/T 6658011|9-C/A 6658107|14-C/G   
## 1 1 1 2 2 1 1 1 2 1 2   
## 6658156|5-G/T 6658199|15-T/C 6658229|33-G/T 6658234|5-T/G 6658254|27-T/C 6658284|37-G/A 6658292|22-T/C 6658327|20-A/G 6658407|20-G/A 6658414|11-G/A 6658562|19-G/T   
## 1 1 2 1 1 1 1 1 1 1 1   
## 6658586|32-A/C 6658643|11-C/T 6658671|14-C/T 6661089|25-T/C 6661118|54-A/G 6661135|53-G/A 6661189|30-T/C 6661215|39-T/G 6661222|65-T/A 6661248|53-C/G 6661249|13-A/G   
## 1 1 2 1 1 1 1 1 1 1 1   
## 6661292|48-T/C 6661362|55-T/C 6661374|18-A/G 6661410|32-G/T 6661422|22-C/T 6661440|5-C/T 6661444|36-A/G 6661467|8-T/G 6661491|67-G/C 6661502|37-A/T 6661590|51-A/C   
## 1 1 2 1 2 1 1 1 1 1 1   
## 6661599|28-A/G 6661630|50-G/A 6661635|15-T/C 6661640|37-T/A 6661680|9-C/G 6661723|32-C/T 6661736|14-G/C 6661758|19-G/A 6661804|60-A/G 6661810|40-A/C 6661811|44-T/A   
## 2 1 1 1 1 1 1 1 1 2 1   
## 6661811|67-G/A 6661833|57-C/T 6661841|11-G/A 6661855|40-T/C 6661864|19-T/A 6661882|41-A/G 6661883|8-G/A 6661885|20-A/T 6662600|6-A/G 6662722|30-G/C 6662742|10-A/C   
## 1 1 1 1 1 2 1 1 1 1 1   
## 6662844|10-A/C 6662885|9-G/T 6662886|27-C/T 6662910|18-C/G 6662926|18-T/C 6663096|18-A/T 6663907|45-A/G 6663910|8-C/T 6663965|32-C/T 6663983|49-G/C 6663986|51-T/A   
## 2 1 1 1 1 1 2 1 1 1 1   
## 6664025|20-C/T 6664038|20-G/A 6664063|32-G/A 6664295|6-G/A 6664431|31-A/G 6664713|15-G/A 6665122|10-A/C 6665220|17-C/T 6665221|28-T/C 100109498|18-A/G 100109477|15-C/T   
## 1 1 1 2 2 1 1 1 1 1 1   
## 100109477|9-A/C 6665568|14-T/C 6665571|10-T/C 6665805|26-C/G 6666099|20-C/T 6666516|59-G/A 100124929|12-A/G 100016665|5-A/G 100016860|40-G/A 100019055|15-C/A 100019486|67-T/C   
## 1 1 2 1 1 1 1 1 1 1 1   
## 100020835|48-C/G 100044994|33-G/A 100064828|9-G/T 100064931|32-G/A 100065941|26-T/C 100073522|28-A/G 100081694|12-C/T 100093694|8-T/G 100114698|38-A/T 100121709|38-A/G 6631771|63-G/A   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6643511|8-T/C 6650389|25-A/G 6650408|50-C/T 6650436|33-G/A 6650531|50-G/A 6650573|57-G/A 6650637|15-T/C 6650654|52-A/C 6650710|46-T/G 6650720|22-A/T 6650779|16-C/T   
## 2 2 1 1 1 1 1 1 1 2 1   
## 6650822|27-G/A 6650832|27-T/C 6650901|27-G/A 6650902|39-G/T 6650937|10-A/G 6650960|65-A/G 6651019|62-A/G 6651142|65-T/C 6651204|9-G/A 6651227|47-C/T 6651280|20-T/A   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6651418|16-G/T 6651508|15-G/T 6651574|38-G/T 6651577|11-A/G 6651598|31-T/C 6651697|15-C/T 6651725|7-T/C 6651760|20-A/T 6651762|50-A/G 6651788|15-A/G 6651792|9-G/A   
## 2 1 1 2 1 1 2 1 1 1 1   
## 6651793|43-T/C 6651862|51-C/T 6651882|23-G/A 6651884|35-A/C 6651903|16-A/G 6651924|35-T/C 6651929|41-G/T 6651993|33-G/A 6651998|13-G/T 6652029|51-G/A 6652043|18-A/G   
## 1 1 1 1 2 1 1 1 1 1 1   
## 6652138|37-A/G 6652167|65-C/G 6652206|59-C/A 6652238|26-C/T 6652289|28-A/T 6652298|67-A/G 6652307|44-C/A 6652334|58-A/T 6652336|15-C/A 6652366|34-C/A 6652425|29-A/T   
## 1 1 1 1 1 1 1 1 2 1 1   
## 6652524|49-C/T 6652588|40-G/T 6652613|43-C/G 6652632|21-A/G 6652778|29-G/A 6652802|13-A/T 6652819|42-A/C 6652826|14-T/C 6653026|52-G/C 6653068|62-G/C 6653116|22-A/G   
## 1 1 1 1 1 1 1 1 2 1 1   
## 6653218|66-C/G 6653354|23-C/A 6653444|44-G/T 6653464|25-A/G 6653494|25-G/A 6653568|59-G/C 6653672|51-G/T 6653690|24-G/C 6653700|47-T/C 6653713|41-T/C 6653736|20-T/A   
## 1 2 1 1 1 1 1 1 1 1 1   
## 6653875|30-C/T 6653968|66-C/G 6653974|33-T/A 6653991|65-G/T 6657021|28-G/A 6657102|16-C/T 6657128|18-G/A 6657132|5-A/C 6657178|34-G/A 6657193|53-C/T 6657201|19-A/G   
## 1 1 1 1 2 1 1 2 2 2 1   
## 6657204|30-A/C 6657318|9-G/A 6657354|8-C/T 6657383|35-G/T 6657458|5-C/G 6657566|43-G/A 6657607|43-G/A 6657631|9-G/A 6657655|8-T/C 6657745|21-C/A 6657813|21-A/G   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6657950|26-T/C 6658016|18-C/G 6658025|28-G/A 6658074|26-C/A 6658086|13-T/C 6658116|19-T/G 6658140|8-T/C 6658176|39-C/T 6658256|13-G/C 6658270|50-G/T 6658309|15-G/T   
## 2 1 1 1 1 1 1 2 1 1 1   
## 6658382|35-G/A 6658386|9-G/T 6658396|48-A/T 6658416|19-T/C 6658448|12-A/G 6658539|20-A/G 6658593|6-T/C 6658605|5-T/A 6658616|40-G/T 6658646|18-C/A 6661133|7-C/G   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6661179|34-A/T 6661195|26-A/G 6661294|16-G/T 6661342|14-G/C 6661347|62-A/G 6661359|29-T/C 6661360|12-T/C 6661375|25-G/A 6661390|29-G/A 6661411|10-A/T 6661415|7-G/A   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6661429|43-A/G 6661461|24-A/G 6661525|21-A/G 6661561|6-A/G 6661611|46-A/C 6661622|45-G/T 100097038|21-G/A 6661741|18-C/T 6661767|9-T/C 6661768|5-T/C 6661780|15-A/T   
## 1 1 1 1 2 1 2 1 1 1 1   
## 6661784|18-A/G 6661801|15-C/T 6662572|23-G/A 6662577|20-C/A 6662598|13-T/G 6662619|18-C/T 6662621|6-C/T 6662686|27-C/T 6662729|33-C/T 6662743|22-C/T 6662903|44-T/C   
## 2 2 1 1 1 2 1 2 2 1 1   
## 6664062|57-T/C 6664077|54-G/T 6664087|35-A/T 6664282|11-G/A 6664352|17-T/G 6664715|34-G/A 6665049|6-C/T 6665121|17-A/G 6665508|35-A/G 6665515|61-A/G 6665540|8-G/A   
## 2 1 1 2 1 1 1 1 1 2 2   
## 6665849|33-C/T 6666095|7-A/G 6666174|7-C/T 6666520|31-G/A 100015941|21-T/C 100016251|35-G/A 100016732|29-G/A 100045346|24-C/T 100045582|33-G/A 100045632|7-G/A 100064767|54-T/C   
## 1 1 1 1 1 1 1 2 1 2 1   
## 100064928|53-G/A 100065927|39-C/T 100074119|31-T/C 100082416|45-C/A 100085968|36-G/A 100091287|38-A/T 100093420|8-G/A 100104859|48-T/C 100121707|24-C/G 6650478|7-C/T 6650577|59-A/G   
## 1 1 1 1 2 1 1 1 1 1 1   
## 6650765|26-G/A 6651007|49-A/G 6651119|61-A/G 6651133|33-C/T 6651237|16-C/T 6651693|21-C/T 6651704|49-G/T 6651952|32-C/T 6652155|42-G/C 6652275|21-C/T 6652283|16-C/T   
## 1 1 2 1 1 1 1 1 1 1 1   
## 6652292|40-G/A 6652303|27-C/T 6652553|13-A/G 6652626|33-A/G 6652630|7-G/C 6652656|7-T/C 6652758|10-G/A 6653200|23-C/A 6653877|30-A/G 6653984|20-G/T 6656875|8-A/T   
## 1 1 1 1 1 1 1 2 1 2 1   
## 6656924|30-G/C 6656996|5-A/T 6657117|41-C/T 6657154|6-G/A 6657156|29-A/C 6657483|18-T/G 6657561|6-C/T 6657735|31-T/A 6657741|7-G/A 6657814|9-A/G 6657850|12-C/G   
## 1 1 1 2 1 1 1 1 2 2 1   
## 6657942|13-C/G 6657997|45-C/T 6658062|30-T/G 6658550|29-A/G 6658582|12-C/G 6658632|5-T/C 6661273|54-T/A 6661308|52-T/C 6661408|14-C/T 6661538|9-G/A 6661791|66-G/C   
## 1 1 1 1 1 1 1 2 1 1 1   
## 6661818|22-G/A 6662638|5-A/G 6662824|38-C/T 6662887|8-G/C 6663037|41-C/G 6664882|7-A/C 6665050|32-A/T 6665295|5-T/C 100019888|47-T/C 100045453|46-G/A 100045704|9-A/G   
## 1 1 2 1 1 1 1 1 1 1 1   
## 100064586|17-G/C 100066059|7-C/T 100074054|47-T/A 100082120|8-T/C 100086057|9-A/G 100086096|24-G/T 100093333|41-G/C 100098548|28-A/G 100104693|28-T/A 100104890|20-C/A 100106918|8-T/C   
## 1 1 2 1 2 2 1 1 1 1 1   
## 100086278|15-A/T 100098561|7-T/A 100112393|13-T/C 6665409|19-C/A 100106209|11-T/A 6652014|36-G/A 100016895|29-G/A 6661843|44-G/A 6652389|64-T/C 6661649|50-A/C 6657666|21-A/T   
## 1 1 2 1 2 1 1 1 1 1 2   
## 6661268|63-T/G 100023082|28-G/T 100017188|42-C/G 6661288|45-T/C 100021319|48-T/G 100045470|27-C/T 6661435|57-G/T 100065514|5-T/C 6630387|13-C/T 100065726|10-C/T 6653782|5-C/T   
## 1 1 2 1 1 1 1 1 1 2 2   
## 100021899|36-A/T 100066454|16-G/T 100065272|30-T/C 100066129|22-G/A 6653374|61-T/C 6664733|54-T/A 100022349|67-T/A 100015942|46-A/C 100016792|52-G/C 100018206|33-G/A 100064825|31-G/T   
## 1 1 2 2 1 2 1 1 2 1 1   
## 100066202|30-T/C 100073401|49-C/A 6633382|47-T/C 100021640|61-G/C 100022856|29-A/C 100023978|37-A/T 6652591|64-T/C 6661464|50-T/A 100015796|50-T/A 100016769|29-T/C 100019373|29-G/A   
## 1 1 2 1 1 2 2 1 1 1 1   
## 100023055|35-A/T 100097014|5-T/G 6661225|60-T/C 6661548|33-A/T 100017088|61-C/T 100023509|31-T/C 100015492|43-G/A 100018948|22-T/C 100020108|6-G/A 100020234|29-G/C 100021104|60-G/C   
## 1 2 1 1 1 1 1 1 1 2 2   
## 100022438|10-G/T 100065777|27-G/T 6634350|32-G/T 100015248|33-A/G 100016465|17-G/A 100016470|38-G/A 100017055|22-C/A 100020326|38-A/G 100020580|5-T/G 100020916|54-A/T 100022162|26-G/C   
## 2 1 2 1 1 2 1 1 1 1 1   
## 100022968|12-G/A 100023214|50-T/C 100023558|48-A/G 100065527|10-A/G 100108046|10-C/G 6652805|19-C/T 6653649|51-C/A 100016806|34-T/C 100016973|34-G/A 100017185|9-C/T 100019652|10-T/C   
## 1 1 1 1 1 1 1 1 1 2 1   
## 100020977|12-T/C 100021791|20-G/A 100064895|33-A/T 100064988|25-T/C 6653972|28-A/G 6658602|21-G/C 100015510|28-A/T 100016175|6-T/C 100016191|14-G/A 100018397|31-G/T 100019542|48-A/C   
## 2 2 1 2 2 1 1 1 1 1 1   
## 100020295|21-C/T 100020374|38-T/C 100021678|59-A/G 100066638|43-T/G 6653330|11-G/A 100015953|68-T/C 100016139|30-C/T 100016326|61-C/T 100016487|19-G/T 100016577|32-A/G 100016760|26-T/A   
## 2 1 1 2 1 1 1 2 1 2 1   
## 100016954|51-G/A 100017145|65-A/G 100017289|41-G/C 100017927|57-A/G 100019119|41-A/C 100019129|28-A/G 100020392|13-C/T 100021327|23-G/A 100022094|8-A/T 100023476|68-C/T 100065094|17-G/A   
## 1 2 1 2 2 2 1 1 1 2 2   
## 100082310|17-G/A 100091292|53-C/T 6633859|61-C/G 6651602|9-A/G 6653320|67-A/G 100015805|62-G/A 100016005|36-T/C 100017432|35-A/G 100019685|30-C/T 100020281|34-T/C 100020816|17-G/A   
## 1 1 1 1 2 1 2 1 1 2 1   
## 100020920|57-A/G 100021124|31-G/T 100021513|63-A/G 100021836|10-G/A 100022515|43-C/T 100023216|57-G/T 100023496|7-C/T 100023681|60-G/A 100065088|33-A/T 100065666|45-T/C 100066471|53-C/T   
## 1 1 1 1 1 1 1 1 1 2 1   
## 6652033|13-A/C 6661430|6-G/T 6661570|26-C/T 6661730|63-G/C 100016186|12-C/A 100016774|44-T/A 100017111|47-A/G 100017208|21-G/A 100017523|52-T/C 100017874|53-A/G 100018144|64-A/G   
## 1 1 1 1 1 1 1 1 2 2 2   
## 100018225|53-A/G 100018942|41-G/T 100019677|5-A/G 100022269|27-A/T 100066082|15-C/A 100066253|43-C/A 100066444|14-G/A 100114672|22-C/T 6651282|60-A/T 6651428|21-T/C 6652874|33-G/A   
## 1 1 1 2 1 1 1 1 1 1 1   
## 100015264|22-A/T 100015814|11-C/G 100015850|40-T/C 100016120|45-G/A 100017115|64-C/T 100017958|17-G/A 100018308|19-A/G 100018683|52-C/T 100019218|10-T/C 100019222|23-G/C 100020050|41-T/C   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100020331|13-C/T 100020335|6-A/C 100021226|41-T/G 100021502|29-G/A 100021862|6-G/A 100021994|17-A/G 100022357|61-G/A 100022781|47-C/T 100023182|23-A/G 100023311|52-A/T 100023534|68-C/G   
## 1 1 1 1 1 1 1 2 2 1 1   
## 6653500|12-A/G 6661123|54-G/C 6665401|24-G/T 100015499|31-G/A 100015907|12-G/C 100016631|34-T/C 100019009|45-G/A 100019123|42-G/A 100019424|28-A/G 100019445|67-A/C 100019654|17-C/T   
## 1 1 2 1 1 1 1 1 1 1 1   
## 100020359|57-A/G 100020876|63-C/T 100022261|20-C/T 100022625|36-A/G 100023251|49-T/A 100090852|5-C/T 6653799|6-G/A 6661647|17-A/C 100015702|42-C/T 100015896|29-T/C 100016097|8-A/G   
## 2 2 1 1 1 2 1 1 2 1 1   
## 100016416|52-T/A 100016914|9-T/G 100017736|15-G/C 100018093|40-G/C 100018383|12-A/G 100018805|31-A/G 100018914|23-G/A 100019000|63-T/G 100019412|18-C/T 100019519|62-G/C 100019671|36-A/G   
## 1 2 1 1 1 2 1 1 1 1 2   
## 100019895|42-T/C 100020000|31-A/G 100020210|64-C/T 100021670|11-G/A 100021761|67-C/T 100022043|14-T/A 100022106|27-G/A 100022213|48-C/T 100022452|60-C/T 100022997|31-G/A 100065791|46-T/C   
## 1 2 1 1 1 1 1 2 1 1 1   
## 100066265|30-T/C 100066487|11-G/A 100101063|5-T/C 6634524|57-T/A 6652255|33-A/G 6661618|12-C/T 100015912|66-G/T 100015914|56-A/G 100016606|50-T/C 100016946|25-C/A 100017520|47-T/G   
## 2 1 1 1 1 1 1 2 2 1 1   
## 100018722|5-C/A 100019526|9-G/A 100019891|44-C/T 100020909|55-A/T 100020985|50-A/G 100021139|33-G/C 100021214|56-G/A 100021255|31-C/T 100021313|59-A/C 100022420|43-T/C 100022458|29-G/T   
## 1 1 1 1 1 1 1 2 1 1 1   
## 100022624|40-G/C 100022691|40-C/T 100023114|8-T/A 100023164|37-T/C 100023165|10-C/T 100023475|55-A/G 100024879|34-A/G 6650963|31-A/G 6650995|35-T/C 100015203|28-T/C 100015415|9-G/T   
## 1 1 2 1 1 1 2 1 1 1 1   
## 100015496|59-G/T 100015847|60-G/C 100015873|28-A/C 100015977|34-A/G 100016012|21-A/C 100016160|65-G/A 100016617|11-C/G 100016919|15-T/A 100016933|17-A/C 100017138|9-G/C 100017592|13-G/T   
## 1 1 1 1 1 2 1 1 2 2 1   
## 100017929|18-A/C 100018201|42-T/G 100018285|15-G/A 100018596|39-G/A 100018944|19-C/A 100019340|48-A/G 100019515|10-G/A 100019761|17-G/A 100019817|32-A/G 100020455|16-G/A 100020993|47-T/C   
## 2 1 1 1 1 1 1 1 2 1 1   
## 100022157|60-A/G 100023102|7-C/T 100045024|30-A/C 100065312|53-G/T 100066063|67-C/T 100066423|46-G/A 6634305|33-C/G 6651275|16-A/C 6652010|36-G/A 6661116|34-A/C 6664719|65-C/G   
## 2 1 1 1 2 1 1 1 1 1 1   
## 100015734|66-G/C 100015877|41-T/C 100016028|28-G/T 100016794|51-C/G 100016930|62-C/T 100016976|17-C/G 100017073|58-C/A 100017352|5-T/A 100017471|13-G/C 100017594|43-T/C 100017596|13-T/C   
## 1 1 1 1 2 1 1 1 1 1 1   
## 100018057|54-A/T 100018384|20-C/A 100018436|8-C/T 100018459|29-C/T 100018601|57-C/A 100018886|5-G/C 100019401|38-C/A 100019538|40-A/G 100019682|13-G/C 100019773|68-G/T 100019884|7-A/G   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100020084|63-C/A 100020358|5-G/C 100020410|17-G/T 100020846|22-A/G 100021982|22-G/C 100022352|35-G/C 100023106|5-T/A 100023435|47-T/A 100023548|13-A/T 100064672|55-C/T 100091227|51-T/A   
## 1 1 1 1 1 1 2 1 1 1 1   
## 100121014|17-C/T 6653240|15-A/T 100015605|26-A/G 100015623|29-T/A 100015712|9-A/T 100015915|16-G/C 100016293|25-T/A 100016319|36-T/C 100016723|21-C/T 100017173|15-T/A 100017697|22-G/A   
## 2 1 1 1 1 1 1 2 1 1 2   
## 100018492|22-T/C 100018548|16-C/T 100018796|68-C/T 100018865|11-C/A 100018936|13-C/T 100019019|18-A/G 100019086|21-G/A 100019131|12-T/C 100019765|29-C/T 100019951|22-C/T 100020346|50-T/C   
## 2 1 2 1 1 1 1 1 1 2 1   
## 100021253|53-T/C 100021441|53-T/C 100021634|50-A/C 100021664|5-T/C 100021900|25-G/C 100021918|16-G/C 100021944|59-G/C 100022064|57-C/T 100022439|9-G/A 100022958|60-G/A 100023335|10-T/C   
## 1 2 1 2 1 1 2 1 2 2 1   
## 100066167|17-A/C 6652225|65-T/C 6653132|37-C/T 6653692|35-T/A 6661742|53-G/T 6663972|39-G/A 6664076|30-T/C 100015254|42-A/G 100015421|66-C/T 100017443|50-T/A 100018227|9-A/G   
## 1 2 1 1 1 1 1 2 1 1 1   
## 100018684|33-T/C 100019036|18-A/C 100019346|5-C/T 100019642|57-C/T 100020216|59-T/G 100020462|12-G/T 100020825|41-T/A 100021447|5-C/T 100021487|10-A/G 100022350|27-C/T 100022637|44-C/T   
## 2 1 1 2 1 1 1 1 1 1 1   
## 100022974|38-G/A 100023108|17-G/A 100023245|57-A/T 100023390|19-G/A 100023533|34-T/C 100064760|51-A/T 100064984|7-A/T 6635254|28-C/T 6650882|51-G/T 6651794|65-C/A 6652456|5-G/C   
## 1 1 1 1 2 1 1 1 2 1 1   
## 6652956|28-T/C 6653074|11-G/T 6653246|55-C/T 6653257|11-T/C 6653558|37-T/C 6653841|24-C/G 6661717|50-A/G 100015306|34-G/T 100017026|18-T/C 100017183|63-A/C 100017740|39-T/C   
## 1 2 1 1 1 2 1 1 1 1 1   
## 100018186|14-G/A 100018502|54-A/C 100019407|9-A/G 100019597|22-G/T 100019799|11-C/T 100020064|5-A/G 100020467|61-C/G 100021342|19-T/G 100021726|23-G/T 100021853|38-A/G 100022073|47-G/A   
## 1 1 1 1 2 1 1 1 1 2 1   
## 100022174|61-T/C 100022237|64-T/G 100022450|28-C/T 100023247|11-G/A 100024830|48-A/T 100065475|5-A/C 100065743|19-C/T 6651542|50-G/C 6652006|5-C/A 6652136|34-G/A 6652490|28-C/A   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6653164|33-G/T 6661138|57-G/A 6661286|13-C/T 100015294|55-T/C 100015312|26-G/C 100015717|58-T/C 100016035|58-C/T 100017166|55-C/G 100017336|19-C/T 100017436|6-T/A 100018333|8-T/C   
## 1 2 1 1 1 1 1 2 2 1 1   
## 100018623|26-G/A 100018949|25-G/A 100019179|31-T/A 100019378|46-T/C 100019715|11-C/T 100020007|20-C/A 100020186|42-A/T 100020325|12-G/A 100020984|22-A/T 100021063|19-C/T 100021116|47-G/C   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100021276|48-T/C 100021323|21-A/G 100023352|36-C/T 100023524|20-T/A 100064607|25-T/A 100064666|61-G/A 100066449|6-A/G 100104023|51-G/T 6651556|12-T/C 6651732|66-T/C 6652161|13-A/G   
## 1 1 1 1 2 1 1 1 1 2 1   
## 6653042|9-A/T 6661220|17-G/T 100015287|46-T/C 100015379|18-A/G 100015449|18-T/C 100016230|18-C/G 100016245|55-T/C 100016437|62-T/C 100017249|15-G/A 100018724|8-T/C 100018729|20-A/C   
## 1 1 1 1 1 1 1 1 2 1 1   
## 100018771|32-C/T 100019308|38-T/C 100019625|33-C/T 100019716|25-C/T 100020654|61-G/A 100021098|19-A/T 100021170|5-G/C 100021240|55-G/C 100021330|41-C/T 100021985|6-G/C 100022470|47-C/T   
## 1 1 2 1 1 1 1 1 1 1 1   
## 100022786|9-C/T 100022992|63-G/C 100023087|65-T/C 100023089|12-A/T 100065113|20-C/T 100065660|34-T/C 100082081|14-T/C 6650676|61-A/G 6650683|35-G/A 6650847|62-G/T 6651376|46-G/A   
## 2 1 1 1 2 1 1 2 1 1 1   
## 6651698|17-A/G 6652341|11-G/A 6652418|6-T/A 6652657|13-T/C 6653549|37-G/A 6653926|47-C/T 6661137|45-A/G 6661795|29-A/G 6664067|38-C/T 100015300|34-C/G 100015553|64-G/T   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100015662|64-G/A 100015747|67-T/C 100016172|45-C/A 100016321|25-T/C 100016379|15-C/T 100016524|6-T/G 100016678|13-G/A 100017389|39-C/A 100017447|10-T/G 100018638|48-T/C 100019669|13-T/C   
## 1 1 1 2 2 1 1 1 1 2 1   
## 100021395|62-G/A 100021505|40-T/C 100021653|13-T/G 100021672|31-T/C 100022109|34-G/A 100022563|58-C/T 100022828|22-T/C 100023017|29-A/T 100066440|62-C/G 100066652|41-G/A 100096906|18-C/T   
## 1 1 1 1 1 2 1 1 1 2 1   
## 6630114|53-A/C 6650736|10-G/T 6651252|16-C/T 6653034|28-A/G 6653152|22-C/A 6653197|10-T/C 6653543|62-T/A 6653729|12-T/C 6658435|49-C/A 6661280|18-T/C 6661782|19-A/G   
## 1 1 1 1 1 1 1 1 1 2 1   
## 100015470|41-C/T 100016237|28-C/A 100016452|17-G/A 100016620|23-T/C 100016680|26-G/A 100016867|47-C/T 100016970|8-C/T 100018066|41-A/G 100018458|45-C/T 100018598|40-C/T 100019260|10-C/G   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100019313|6-T/C 100020459|17-G/C 100022183|15-A/C 100022219|59-T/A 100022324|20-A/T 100022476|18-T/C 100022820|44-T/C 100065830|50-G/A 100073534|35-A/T 100108129|53-C/A 6631518|25-C/G   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6650419|25-C/G 6650596|64-G/T 6650922|18-T/C 6650997|7-A/G 6651758|26-G/A 6652094|60-T/C 6652276|10-G/A 6652446|14-G/A 6652850|15-T/C 6652911|22-A/G 6653387|31-C/A   
## 1 1 1 1 1 2 1 1 1 1 1   
## 6653442|7-A/G 6653457|43-C/T 6653666|33-A/G 6653913|54-A/G 6661714|10-A/T 6661819|18-T/C 6665305|19-G/A 100015271|40-A/G 100015651|23-C/T 100016940|6-T/G 100017024|68-G/A   
## 2 1 1 1 1 1 2 1 1 1 1   
## 100018261|61-T/C 100018474|24-G/A 100018954|18-A/G 100019606|34-G/A 100019837|9-G/A 100020506|37-T/A 100020651|11-C/G 100021368|14-C/T 100021399|20-A/C 100021433|22-A/C 100021823|21-T/G   
## 1 1 1 1 1 1 1 2 1 1 1   
## 100022483|30-T/A 100022774|66-T/G 100023022|43-C/T 100023206|43-A/G 100023292|16-A/G 100023396|25-C/T 100024289|11-T/C 100045482|25-C/T 100065022|34-A/G 100065562|43-G/A 100065795|26-G/A   
## 1 1 1 1 1 1 1 1 1 2 1   
## 100066292|25-T/C 100073974|41-A/C 100082647|16-C/A 6650814|43-G/C 6650908|37-A/C 6651113|11-C/G 6651346|28-A/T 6651709|24-A/G 6652049|29-T/C 6652500|45-G/T 6652777|22-A/G   
## 1 1 1 1 1 1 1 1 2 1 1   
## 6653333|13-T/C 6653390|14-T/G 6653414|31-T/C 6653728|20-G/T 6654032|23-T/G 6654037|57-A/G 6657904|10-G/C 6661607|55-C/A 6661700|18-G/A 6662767|16-T/C 6664074|40-T/G   
## 1 1 1 2 1 1 1 1 1 1 1   
## 6664074|44-G/C 6664735|26-T/G 6665238|34-T/C 100124938|57-G/A 100015346|10-T/A 100016456|52-G/C 100016501|31-A/T 100017004|22-C/T 100017283|39-T/G 100017322|41-G/A 100017407|26-G/T   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100017421|12-A/G 100018243|9-T/C 100018879|32-C/A 100019658|67-A/G 100020347|21-G/C 100021567|15-A/G 100021727|64-T/A 100023434|25-T/C 100066346|64-T/C 100066369|51-A/G 100066626|37-G/T   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6631525|11-C/T 6650677|49-C/T 6650829|66-C/T 6650865|22-G/T 6651274|64-A/G 6651327|26-G/A 6651363|38-T/A 6651684|66-A/G 6652046|31-A/G 6652267|48-T/C 6652284|17-T/C   
## 1 2 1 1 1 1 1 1 1 1 1   
## 6652529|31-T/C 6652900|9-A/G 6653610|43-G/T 6653665|46-C/T 6653751|12-A/T 6653876|40-A/G 6654005|53-G/A 6654018|46-G/A 6661150|29-C/G 6661536|5-G/A 6664750|33-C/G   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100103994|12-C/T 100103994|20-G/A 100104021|9-A/G 100015729|18-T/G 100015952|21-T/A 100016302|16-G/A 100016507|10-G/T 100016962|46-C/T 100017543|65-T/C 100018176|18-T/A 100018259|44-T/C   
## 1 1 1 1 2 1 1 2 1 1 1   
## 100019881|23-C/A 100019923|11-A/T 100020081|6-T/A 100020349|28-G/T 100022424|20-G/A 100023400|43-G/T 100044682|9-A/G 100044750|30-A/G 100065250|9-G/T 100065326|31-T/A 100065589|31-A/G   
## 2 1 1 1 2 1 1 1 1 1 1   
## 100066526|17-G/A 100091166|12-G/A 100091166|42-A/G 6650613|48-C/T 6650687|41-T/G 6650796|6-C/T 6650803|47-G/C 6651101|36-C/G 6651528|20-A/T 6651771|12-T/C 6651853|15-T/A   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6652025|35-C/T 6652815|7-T/G 6652936|53-A/C 6653177|8-T/G 6653241|40-G/T 6653293|49-G/A 6653307|12-A/G 6653389|28-A/G 6653538|48-T/C 6653579|57-T/A 6653832|7-T/C   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6661683|57-A/G 6661685|63-G/A 6661816|48-A/G 6661824|42-G/C 6661850|36-A/T 6661890|47-A/G 6665337|42-A/G 100015757|13-C/T 100016204|33-T/C 100017468|57-G/T 100017967|62-C/T   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100018112|46-A/C 100018165|13-C/T 100018718|21-G/A 100019849|5-G/A 100019859|8-G/A 100022136|24-T/C 100022312|53-T/C 100045521|11-T/G 100065432|12-T/G 100065536|20-G/A 100066606|52-G/T   
## 2 1 1 1 1 2 1 1 1 1 1   
## 100082316|6-G/A 100082368|14-T/G 100097022|6-T/C 100108129|36-G/A 6631225|7-T/C 6631997|14-C/T 6650612|10-C/T 6650648|12-C/G 6651035|6-G/A 6651242|13-G/A 6651289|37-A/G   
## 1 1 2 1 1 1 1 1 1 1 1   
## 6651290|54-T/A 6651373|58-C/T 6651393|29-G/A 6651401|31-A/G 6651427|13-G/A 6651437|43-G/C 6651445|36-G/T 6651476|13-C/T 6651646|25-A/G 6651749|48-G/A 6651841|8-T/C   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6652088|32-C/T 6652192|52-C/A 6652260|63-T/C 6652326|50-G/A 6652369|31-T/C 6652422|33-T/C 6652547|9-G/T 6652893|32-T/A 6652909|24-T/G 6652955|18-G/C 6653017|55-G/A   
## 1 1 1 1 1 2 1 1 1 1 2   
## 6653103|52-T/G 6653677|36-T/C 6653708|16-C/G 6653903|37-A/G 6653934|25-C/T 6654040|14-T/C 6654091|9-T/C 6657832|39-T/C 6661183|41-T/C 6661274|44-G/C 6661675|22-T/C   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6663998|37-C/T 6664011|37-G/C 100016463|53-T/C 100016812|38-G/A 100017567|49-A/C 100017961|50-G/T 100018143|16-G/A 100019099|54-T/G 100019383|33-G/T 100019940|39-C/T 100020427|36-G/A   
## 1 1 1 2 1 1 2 1 2 1 1   
## 100020660|8-T/A 100020677|22-A/G 100021361|48-T/C 100021511|43-C/T 100021828|33-C/A 100022057|11-A/G 100022783|26-C/T 100064616|40-A/G 100065171|45-C/G 100065966|15-C/G 100082527|51-C/T   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100082585|40-G/A 100106949|10-G/A 100117044|51-G/C 6650418|9-G/T 6650423|29-A/G 6650818|67-C/T 6651153|49-G/T 6651180|65-A/T 6651287|48-A/C 6651447|19-T/C 6651655|40-A/G   
## 1 2 1 1 1 1 1 1 1 1 1   
## 6651717|7-T/C 6651971|61-A/G 6651981|50-T/G 6652195|35-T/C 6652270|30-C/T 6652411|8-G/A 6652419|17-C/T 6652451|65-G/A 6652920|22-G/A 6653067|56-T/C 6653377|17-C/T   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6653583|28-T/C 6653636|14-A/G 6653697|13-T/C 6653731|66-C/T 6653767|20-G/C 6653770|20-C/G 6653784|35-T/C 6653810|62-C/A 6653854|42-T/C 6653892|54-G/A 6653910|50-T/C   
## 2 1 1 1 1 1 1 1 1 1 1   
## 6654022|30-A/G 6661470|52-C/A 100066269|13-T/C 6662979|27-T/C 6664013|56-T/C 6664771|32-C/T 6665036|59-T/C 100015387|20-A/C 100016289|59-C/A 100017196|51-G/T 100017527|6-T/A   
## 1 1 2 1 1 1 1 1 1 1 1   
## 100017670|46-C/A 100018265|14-C/T 100018491|67-A/C 100019232|26-T/C 100019318|16-T/A 100019703|50-G/A 100019708|6-A/G 100019897|65-G/A 100020477|33-C/T 100022633|31-A/G 100023423|28-C/T   
## 1 1 1 1 1 2 1 1 1 1 1   
## 100064644|53-C/T 100065127|11-C/T 100082124|16-C/G 6632526|27-G/T 6650445|31-C/T 6650584|38-A/G 6650848|20-G/A 6651173|50-C/A 6651298|24-T/G 6651530|41-T/C 6651782|31-G/A   
## 1 1 1 2 1 1 1 1 1 1 1   
## 6651907|9-T/C 6652024|30-A/G 6652131|34-G/A 6652159|67-C/T 6652177|21-C/T 6652210|27-C/A 6652401|28-T/A 6652416|68-C/G 6652713|26-G/C 6652866|10-G/A 6652983|43-C/A   
## 1 1 2 1 1 1 1 1 1 1 1   
## 6653039|43-G/C 6653044|17-A/G 6653092|18-T/C 6653202|68-T/A 6653253|13-C/G 6653255|39-G/T 6653445|25-C/G 6653487|29-C/T 6653527|21-G/A 6653922|36-T/C 6653930|13-A/T   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6654013|57-T/G 6657669|38-C/T 6658619|38-A/G 6661144|14-T/C 6661228|61-G/A 6661239|28-A/G 6661757|61-G/A 6661837|5-T/C 6663958|42-G/C 6664017|22-C/T 6665345|60-G/A   
## 1 1 1 2 2 1 1 1 1 1 1   
## 6665563|37-A/C 6665563|41-G/A 6665563|7-C/T 6666102|24-A/G 100015848|14-C/A 100016751|21-G/A 100017832|10-T/C 100017856|21-A/G 100018301|7-A/G 100019450|10-C/A 100019818|16-G/A   
## 1 1 1 1 1 1 1 1 1 1 2   
## 100019983|13-A/G 100020502|50-G/A 100020602|47-A/G 100065169|68-T/C 100066267|15-G/A 100066657|20-C/G 6632946|54-T/A 6650395|54-T/C 6650450|36-T/C 6650539|5-T/C 6650675|13-G/T   
## 2 1 1 2 2 1 1 1 1 1 1   
## 6650760|49-T/G 6650770|63-T/C 6650778|15-A/G 6650888|42-T/A 6650948|22-G/A 6651067|68-T/C 6651104|14-T/C 6651269|64-A/G 6651380|66-C/A 6651460|39-T/A 6651469|31-G/T   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6651565|25-G/T 6651594|47-T/G 6651714|59-A/T 6651809|19-T/C 6651814|64-A/G 6652119|10-C/T 6652183|53-C/T 6652218|58-G/A 6652272|46-C/A 6652443|56-C/T 6652587|38-G/C   
## 1 1 1 1 2 1 1 1 1 1 1   
## 6652614|24-T/A 6652643|8-A/T 6652647|54-C/A 6652695|37-C/T 6652702|52-A/C 6652729|55-C/G 6652886|48-T/A 6653028|14-A/G 6653065|44-C/T 6653124|7-G/C 6653205|17-C/T   
## 1 1 1 1 1 1 1 1 1 1 2   
## 6653210|45-C/A 6653524|37-T/G 6653532|60-C/T 6653787|34-A/G 6653818|55-C/T 6653820|23-G/A 6653825|25-G/A 6653908|59-C/G 6653938|33-G/A 6656975|12-C/G 6658434|32-G/T   
## 1 1 1 1 2 1 1 1 1 1 1   
## 6661131|30-C/A 6661170|60-C/T 6661460|63-C/T 100082330|10-C/T 6661516|30-G/T 6661542|10-A/G 6661650|9-G/A 6661787|54-G/C 6661807|10-G/A 6663931|44-A/G 6663966|33-A/G   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6664887|16-T/G 6665234|5-T/A 6666170|37-C/T 100016216|6-C/A 100016431|13-A/G 100016980|14-G/C 100017035|18-A/G 100018089|20-C/A 100018299|18-A/G 100019103|66-G/A 100020260|22-G/C   
## 1 1 1 1 1 1 2 1 1 1 1   
## 100020593|29-A/G 100021233|9-G/T 100022402|38-T/A 100022743|53-G/A 100064690|24-G/C 100065349|19-G/C 100065841|23-T/C 100074065|11-G/A 6650412|48-C/T 6650459|40-G/A 6650487|15-T/C   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6650510|49-G/C 6650571|53-C/T 6650575|33-C/T 6650657|31-A/G 6650727|33-T/A 6650764|18-A/G 6650786|30-G/A 6650877|51-A/G 6650982|52-G/T 6650992|26-T/G 6651041|46-A/G   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6651162|25-G/T 6651244|31-C/A 6651284|8-G/C 6651398|18-G/A 6651485|12-A/G 6651517|35-T/G 6651527|40-C/T 6651546|39-T/C 6651644|49-G/A 6651663|43-G/C 6651671|42-C/A   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6651691|10-G/A 6651700|17-C/A 6651734|47-T/C 6651746|20-C/T 6651800|11-A/G 6651813|5-C/T 6651896|64-A/G 6651912|26-C/G 6651917|68-G/T 6652038|34-C/A 6652059|20-C/T   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6652081|56-C/G 6652085|6-G/A 6652121|43-A/T 6652134|47-G/C 6652186|30-C/T 6652189|13-A/G 6652281|62-C/G 6652285|54-C/T 6652290|29-T/C 6652304|61-G/T 6652432|55-C/T   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6652503|20-A/G 6652505|16-A/C 6652521|39-C/T 6652525|37-G/T 6652601|21-T/C 6652602|25-G/C 6652606|48-T/C 6652624|28-T/C 6652668|15-G/C 6652670|16-C/G 6652721|10-T/A   
## 1 2 1 1 1 1 1 1 1 1 1   
## 6652733|37-A/G 6652745|53-A/G 6652752|31-C/T 6652791|49-C/A 6652818|11-T/C 6652862|15-A/G 6652881|22-C/A 6652972|10-T/C 6652998|52-A/T 6652999|57-A/G 6653082|48-T/C   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6653098|9-A/G 6653162|29-G/A 6653274|28-A/G 6653325|64-G/C 6653332|57-G/A 6653357|42-C/T 6653362|53-G/C 6653412|42-A/G 6653426|18-C/T 6653440|10-T/C 6653465|26-C/G   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6653468|58-T/C 6653470|47-G/C 6653503|52-C/T 6653589|18-G/A 6653681|55-A/G 6653716|66-G/A 6653721|50-T/C 6653756|39-T/C 6653768|57-T/C 6653772|52-C/T 6653912|41-A/G   
## 2 1 1 1 1 1 1 1 1 1 1   
## 6653970|10-G/T 6654035|9-A/T 6654089|34-G/C 6657074|8-C/T 6657427|36-T/G 6658142|19-G/A 6658487|31-A/T 6658567|11-A/G 6661106|67-C/A 6661340|59-C/T 6661404|52-G/C   
## 2 1 1 1 1 1 1 1 1 1 1   
## 6661465|25-C/G 6661493|15-T/C 6661592|37-C/T 6661602|55-A/G 6661729|38-A/G 6661755|5-T/C 6661849|5-T/A 6662667|9-T/C 6663069|39-G/A 6663912|29-A/G 6663945|17-A/G   
## 1 1 1 1 1 1 1 2 1 1 1   
## 6665239|6-A/G 6665353|11-A/G 6665974|11-A/T 6666103|68-G/A 100016182|32-A/G 100017836|20-G/A 100017869|6-A/G 100018411|68-A/C 100020222|50-C/G 100021008|5-T/G 100021734|34-T/C   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100021842|6-T/A 100045232|8-G/C 100065195|59-A/G 100074076|12-A/C 100114674|53-G/A 6650380|13-C/T 6650404|10-C/T 6650422|10-A/C 6650471|64-T/C 6650500|18-G/C 6650515|50-A/G   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6650537|13-C/T 6650542|10-G/A 6650554|41-G/A 6650556|9-G/C 6650615|12-C/T 6650633|41-A/C 6650636|55-A/G 6650715|51-A/G 6650784|41-A/G 6650806|54-A/G 6650812|44-C/T   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6650885|45-G/T 6650890|7-G/A 6650891|27-C/G 6650939|41-A/G 6651045|37-G/C 6651063|37-A/C 6651127|50-C/G 6651189|65-G/A 6651213|10-C/G 6651259|15-G/A 6651305|62-C/T   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6651312|67-T/C 6651314|20-C/T 6651471|5-C/A 6651479|37-T/G 6651523|45-A/T 6651524|18-G/A 6651611|23-A/T 6651617|38-A/C 6651627|10-C/A 6651680|16-T/G 6651686|18-G/A   
## 1 1 1 1 1 1 1 1 1 1 2   
## 6651990|27-G/T 6652031|21-T/C 6652068|30-T/C 6652123|48-C/T 6652141|65-C/T 6652156|37-G/T 6652188|11-A/G 6652217|66-T/A 6652220|47-G/A 6652222|50-C/T 6652329|66-G/C   
## 1 1 1 1 1 1 1 1 2 2 1   
## 6652364|41-C/T 6652450|9-A/C 6652454|59-C/T 6652470|43-C/T 6652506|53-A/T 6652539|13-G/A 6652561|39-T/C 6652572|11-T/G 6652637|54-T/C 6652648|60-T/A 6652659|15-A/C   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6652665|12-A/G 6652728|28-T/C 6652751|58-A/G 6652774|48-G/A 6652817|30-A/G 6652845|15-G/A 6652939|61-C/T 6652947|66-T/A 6653004|32-T/G 6653011|14-C/T 6653170|45-A/G   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6653174|64-A/C 6653291|22-A/G 6653324|46-G/A 6653415|50-C/G 6653489|12-A/C 6653514|8-A/G 6653535|20-A/T 6653594|40-G/A 6653646|49-A/T 6653674|54-T/C 6653683|31-C/T   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6653750|55-T/C 6653771|10-A/G 6653779|21-T/C 6653822|27-G/A 6653827|15-A/G 6653858|29-G/T 6653928|36-T/A 6653969|26-C/T 6654051|34-T/C 6654056|9-C/T 6654078|12-T/G   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6657388|11-G/T 6657512|7-T/A 6657941|41-C/T 6658094|46-C/A 6658571|22-C/A 6658640|12-C/T 6661287|22-A/G 6661315|34-C/A 6661316|17-T/A 6661420|51-G/A 6661453|6-G/A   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6661468|17-G/T 6661489|62-C/T 6661552|5-G/T 6661577|44-A/C 6661601|15-G/A 6661629|40-G/A 6661651|60-G/A 6661703|29-A/G 6661728|35-C/T 6662799|24-G/T 6662820|22-T/G   
## 1 1 1 1 1 1 1 1 2 1 1   
## 6662890|34-A/G 6662898|11-T/C 6662977|22-A/G 6664083|6-T/C 6664294|44-T/A 6664720|7-C/A 6665218|24-G/A 6665351|57-C/G 100109477|37-C/T 6665629|41-C/T 6665821|31-C/T   
## 1 1 1 1 1 1 1 1 2 1 1   
## 100016377|14-C/T 100016728|8-C/G 100017376|68-T/C 100018451|6-C/T 100019918|66-C/T 100022411|61-C/G 100064620|27-T/G 100064811|7-G/A 100065350|20-A/G 100109953|9-A/G 6650460|21-T/C   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6650519|57-T/C 6650579|51-T/C 6650580|37-G/A 6650607|66-G/A 6650671|45-C/A 6650689|52-T/A 6650703|19-G/A 6650815|7-A/G 6650944|60-T/A 6650965|12-G/T 6651031|38-C/A   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6651069|41-G/C 6651089|58-C/G 6651139|39-G/A 6651355|22-C/T 6651367|34-G/T 6651487|9-A/G 6651578|26-T/C 6651593|32-G/C 6651619|40-T/C 6651620|38-C/T 6651675|34-C/G   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6651806|49-A/C 6651821|15-A/G 6651825|51-A/T 6651968|21-G/A 6651983|9-A/T 6652057|5-C/T 6652073|37-A/C 6652074|10-G/A 6652115|60-T/G 6652197|23-A/G 6652244|39-C/T   
## 1 1 1 2 1 1 1 1 1 1 1   
## 6652249|29-C/T 6652338|5-C/T 6652392|7-T/C 6652466|57-C/T 6652514|66-T/C 6652554|50-A/G 6652556|53-T/C 6652589|8-C/A 6652749|25-T/C 6652753|11-T/G 6652776|45-A/T   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6652806|6-C/T 6652834|26-T/C 6652885|65-C/G 6652929|66-T/A 6652935|47-C/T 6653073|5-G/T 6653088|16-G/A 6653093|44-G/A 6653104|55-C/T 6653436|11-T/C 6653497|6-C/T   
## 1 1 2 1 1 1 1 1 1 1 1   
## 6653639|65-G/T 6653645|43-C/G 6653769|16-G/C 6653927|44-C/T 6653953|41-C/T 6653987|61-A/G 6653993|15-A/G 6654009|23-C/T 6656879|21-T/C 6656932|34-C/G 6657077|25-T/C   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6657152|47-T/C 6657200|7-T/C 6657228|8-C/T 6657447|9-A/T 6657510|13-A/G 6657518|14-A/C 6657616|11-A/G 6657889|17-C/G 6657989|13-T/G 6657992|32-T/C 6658007|29-T/A   
## 1 1 1 1 1 1 2 1 1 1 1   
## 6658058|7-C/G 6658330|11-C/G 6658349|12-A/C 6658401|16-G/T 6658424|11-A/T 6658451|54-A/G 6658473|36-A/C 6658548|12-C/A 6658667|17-A/G 6661128|54-T/A 6661132|53-C/T   
## 1 2 1 1 1 1 1 1 2 1 1   
## 6661145|48-C/T 6661169|16-A/C 6661418|24-T/G 6661447|57-G/A 6661551|43-A/T 6661606|48-G/C 6661621|22-T/C 6661667|62-A/G 6661716|24-C/T 6661770|21-C/T 6662676|12-G/A   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6662737|6-A/T 6662747|22-A/G 6662778|8-A/G 6662831|7-G/C 6662962|22-T/G 6662984|35-A/G 6663913|23-G/A 6663996|47-G/T 6664080|40-C/A 6664712|24-G/A 6665849|24-T/C   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6665849|27-A/G 100019306|41-G/C 100023120|53-T/C 100045071|11-G/T 100073787|12-T/C 100073808|38-G/A 100082396|45-C/T 100082676|61-G/A 6650780|18-C/T 6651956|47-C/T 6652018|68-G/A   
## 1 1 1 2 1 1 1 1 2 1 1   
## 6652299|52-G/C 6652898|20-T/A 6653146|40-G/A 6657342|25-G/C 6657451|13-T/C 6657720|20-T/G 6657882|21-C/T 6658021|6-G/C 6658104|7-T/G 6658212|12-A/G 6658246|8-C/T   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6661212|11-A/C 6661231|65-C/G 6661373|56-C/G 6661472|51-T/C 6662632|29-C/A 6662644|9-A/C 6662718|14-A/G 6662788|5-C/G 6663015|45-C/G 6663056|27-G/A 6663101|48-T/C   
## 1 1 2 1 1 1 1 1 1 1 1   
## 6663942|12-C/G 6663943|19-C/G 6664030|20-T/A 6664734|37-C/T 6665050|6-C/T 6665686|46-A/G 100064830|15-G/C 100073523|7-G/T 100073850|23-A/C 100074130|14-T/C 100085916|27-G/T   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100085918|17-C/T 100093520|12-T/C 100102104|19-G/T 100104847|9-C/T 100107045|42-G/A 100111102|5-T/C 100118833|7-G/A 100118214|9-G/A 6661395|67-G/A 6661549|61-G/A 6664299|8-G/C   
## 2 1 1 1 1 1 1 1 1 2 1   
## 6661899|30-T/C 100117994|5-C/A 100118292|6-C/T 100120255|8-G/T 100122091|12-G/A 6658340|10-T/A 6662816|5-C/A 6662936|6-T/A 6662936|8-A/G 6662964|8-C/T 6662966|17-G/A   
## 1 1 2 1 1 1 1 1 1 1 2   
## 6664885|14-G/A 6661031|8-G/A 100066612|18-A/G 6652306|13-T/C 100085941|14-G/T 100018734|36-T/A 6661163|12-C/T 100065635|32-C/T 6661774|57-G/A 100082623|35-G/A 100065110|61-C/T   
## 1 1 1 2 1 2 2 2 2 2 1   
## 6661113|35-G/T 100118834|24-T/A 100065734|46-A/C 6663988|26-G/A 6661432|6-G/T 6661894|14-C/T 100025027|41-A/T 100065037|22-A/G 6661398|17-C/G 6661689|5-A/G 6664901|14-T/C   
## 1 2 1 1 1 1 1 1 1 1 1   
## 6661325|52-G/A 100024800|55-T/C 6661569|21-G/T 100015330|20-C/A 100017807|41-C/T 100021430|18-A/C 100021922|61-T/G 100024081|21-C/T 100044596|39-C/T 6651341|31-A/G 6652981|11-C/A   
## 1 2 1 1 1 1 1 1 1 1 1   
## 100065893|67-C/T 100015238|36-T/C 100015491|32-C/T 100015884|7-G/A 100019050|23-G/A 100022813|55-A/C 6653072|57-C/T 100016062|38-A/G 100017135|23-C/G 100021766|9-T/A 100022076|54-G/A   
## 2 1 1 1 1 1 2 2 1 1 1   
## 6661377|53-C/T 100015975|43-A/T 100016187|49-G/C 100024150|52-T/G 100018712|5-A/C 100021390|26-A/G 100045683|24-T/C 6661840|10-C/T 100016255|15-T/A 100020380|45-T/G 100021355|11-G/T   
## 1 1 1 1 1 1 2 1 1 1 1   
## 100021470|64-A/G 100023138|54-G/A 100023921|57-C/T 6650819|43-C/T 6653757|13-T/G 100015309|36-C/A 100015511|36-A/G 100015825|32-G/T 100016469|15-C/A 100019560|67-A/T 100021988|8-A/G   
## 1 1 1 2 1 1 1 1 1 1 1   
## 100022638|31-A/T 100022674|60-A/G 100023456|47-T/C 100023464|21-G/T 100023506|63-G/C 100121198|44-C/T 6664022|46-T/C 100017302|21-A/C 100017884|42-T/C 100020887|11-G/A 100022100|32-C/G   
## 1 1 1 1 1 1 2 1 1 1 1   
## 100022978|31-G/T 100064951|7-C/T 100108048|25-G/C 6653000|22-C/T 6661699|44-C/T 100015643|21-A/G 100016494|59-G/A 100017300|12-G/T 100017465|6-C/A 100019558|59-A/C 100021942|23-G/A   
## 2 1 1 1 1 1 1 1 1 1 1   
## 100022249|52-T/C 100022694|55-C/G 100022788|12-C/T 100101046|61-C/A 6652314|37-T/C 100015332|7-C/A 100015389|56-T/A 100015557|20-C/G 100017329|58-G/T 100018963|60-A/C 100019082|25-A/G   
## 2 1 2 2 1 1 1 1 1 1 1   
## 100019182|47-T/A 100020256|17-T/G 100020398|8-A/C 100021013|48-A/T 100021289|8-A/G 100023421|10-T/G 6653492|18-A/G 6661385|64-G/C 6661806|68-G/A 100017094|36-C/T 100017357|22-T/C   
## 1 1 1 1 1 1 1 1 2 1 1   
## 100018276|13-A/G 100018426|49-A/T 100018952|47-A/T 100021643|42-A/T 100022068|8-T/C 100022755|51-G/A 100066666|24-G/A 6661519|31-A/T 100015745|7-C/T 100018424|55-T/A 100021037|43-A/C   
## 1 1 2 1 1 1 2 1 1 1 1   
## 100021847|31-C/T 100022744|13-G/C 100023381|30-A/G 100023472|27-C/T 100023477|8-T/G 100024933|20-T/G 6651050|34-T/C 6652421|32-C/G 100082161|17-G/C 6661817|22-G/A 6665065|47-C/T   
## 1 1 1 1 1 1 2 1 2 1 1   
## 6666515|7-G/A 100015276|20-C/T 100016849|33-A/G 100018157|49-A/G 100018512|6-C/A 100019166|40-G/A 100019599|68-C/T 100020395|68-C/T 100020496|40-T/C 100022054|30-T/C 100022238|35-T/C   
## 1 1 1 2 1 1 2 2 1 1 1   
## 100022761|21-C/T 100064714|31-A/C 100082512|27-G/T 6635566|26-T/G 6651319|63-C/T 100101042|27-A/G 100015522|21-A/T 100015635|48-A/C 100016324|17-G/C 100017167|42-A/G 100017270|46-A/G   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100018878|51-C/T 100019810|41-A/G 100020422|49-T/G 100021781|44-T/A 100022052|36-T/A 100022732|37-A/G 100023771|42-A/T 100064904|9-C/T 100066133|22-A/T 6635226|21-A/G 6661769|64-T/A   
## 2 2 2 1 1 1 1 1 1 1 2   
## 100015503|66-A/T 100015669|26-A/G 100016926|66-A/G 100017163|47-A/G 100017930|44-G/A 100018643|57-G/A 100019627|11-G/A 100019775|26-T/C 100020011|13-C/A 100020180|30-T/A 100020794|35-G/A   
## 1 1 1 1 2 1 1 2 1 1 2   
## 100022441|55-A/G 100065577|55-T/C 100066375|31-C/T 100101063|14-G/A 6634311|8-T/C 6650564|10-C/G 6651449|21-G/A 100015590|56-T/C 100015813|59-T/A 100015865|6-C/T 100015966|35-T/C   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100016299|67-G/A 100017046|59-A/G 100017306|20-C/T 100017681|59-G/A 100018541|45-C/T 100019001|52-T/C 100019248|51-C/A 100019357|10-A/C 100020167|8-T/C 100020584|49-G/A 100020830|34-G/T   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100021518|64-T/G 100023323|17-A/G 100065274|22-T/A 100066055|6-T/C 6652294|28-T/C 6661350|27-G/A 100015979|10-G/A 100016232|12-A/G 100016804|11-G/T 100016918|64-T/A 100017355|38-C/A   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100018239|64-C/A 100018653|43-T/C 100019075|38-G/C 100020739|29-A/G 100022196|19-G/A 100022506|24-C/G 100022716|15-T/C 100065001|58-T/A 6661682|7-T/C 100016459|9-T/C 100016800|17-T/A   
## 1 1 1 1 1 2 1 1 1 1 1   
## 100016857|32-A/T 100016901|25-G/A 100017304|40-T/G 100018018|24-G/T 100018056|56-G/C 100018188|36-G/T 100018521|14-G/A 100019406|13-G/A 100019617|68-C/A 100020206|45-C/G 100021877|23-T/G   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100022598|56-C/T 100022715|29-C/T 100022769|37-G/A 100023124|68-T/G 100045390|32-G/A 100064869|18-A/G 100066159|27-C/T 6651348|40-T/G 6651910|25-A/T 6661267|31-G/A 6661407|12-G/C   
## 1 1 1 1 1 1 1 2 1 1 1   
## 6661471|46-G/T 100015328|40-A/C 100015329|5-T/A 100015695|23-C/T 100015994|62-A/T 100016280|42-G/C 100016310|50-G/A 100017976|8-T/G 100018090|15-T/C 100018376|15-G/A 100019811|9-A/G   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100019879|32-T/C 100020836|42-T/G 100020897|56-T/C 100020918|25-A/G 100022084|40-A/G 100022253|28-T/C 100022347|11-T/G 100022822|20-C/T 100022863|16-C/G 100064727|32-C/G 100064762|17-A/C   
## 1 1 2 1 1 1 1 1 1 1 1   
## 100065060|19-C/T 100065198|28-C/T 100065497|6-G/A 100066169|37-C/A 100066413|57-T/G 100066518|25-A/C 6650606|12-A/G 6650782|37-G/A 6651161|26-A/T 6651343|64-C/T 6651987|65-G/C   
## 2 2 1 1 1 1 1 1 1 1 1   
## 6652583|9-C/G 6653986|35-G/A 100017405|46-T/C 100018360|48-T/C 100020046|11-T/G 100020184|33-A/T 100020356|17-C/T 100021172|11-C/T 100021739|23-A/G 100022407|43-A/G 100022586|32-A/G   
## 1 1 1 1 1 1 1 2 1 1 1   
## 100023347|40-A/G 6630669|54-A/C 6651087|52-A/G 6653823|53-T/C 6661427|45-A/T 6664050|11-T/C 100015339|30-G/A 100015780|53-A/C 100016477|49-C/T 100016846|6-A/G 100017534|5-A/C   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100018524|64-G/T 100018715|45-A/C 100019637|34-T/C 100019730|38-A/G 100020004|34-G/C 100020093|64-G/T 100020177|61-C/T 100020736|62-T/C 100021876|36-T/C 100022251|18-A/C 100022479|48-G/A   
## 1 1 1 1 1 1 1 2 1 1 1   
## 100023192|44-C/T 100065374|28-T/A 100065413|68-G/T 100065460|57-T/A 100065786|62-T/C 100065981|32-G/A 100093548|6-T/C 6635925|28-G/A 6651303|15-G/A 6652226|61-A/C 6652595|25-T/C   
## 1 1 1 1 2 1 2 1 1 1 2   
## 6652880|30-G/A 6653288|5-T/C 6661743|26-G/A 100015258|11-G/A 100015334|11-A/C 100015520|48-T/A 100016206|60-T/G 100016803|55-T/A 100016999|24-T/C 100017691|42-G/C 100018254|14-G/C   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100018691|53-C/T 100018832|49-T/A 100018836|30-T/A 100018972|63-T/C 100018993|58-G/A 100019968|28-T/C 100019971|65-T/G 100020134|53-C/T 100020237|19-C/T 100020353|50-A/G 100021532|8-T/G   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100022232|46-T/C 100022564|55-G/A 100064590|10-C/G 100064752|47-G/T 100066482|40-C/G 100066499|21-A/C 100082126|5-A/G 100082673|16-C/G 100118390|28-A/G 100118390|5-C/G 6650749|8-A/C   
## 1 1 1 1 1 1 2 1 1 1 1   
## 6650993|48-A/G 6651187|10-A/T 6652437|24-T/C 6652887|56-G/A 6653102|62-A/C 6653358|49-T/A 6661200|10-A/G 6661277|39-G/A 6661479|25-C/A 6665776|10-G/A 100116183|6-G/A   
## 1 1 1 1 2 1 1 1 1 1 2   
## 100065388|52-T/C 100015585|60-A/G 100016513|5-C/A 100016711|48-G/A 100017104|21-C/A 100017773|59-C/T 100017895|25-A/T 100018069|40-A/G 100018279|30-C/A 100018386|10-G/C 100018698|26-G/A   
## 2 1 1 2 1 2 1 1 1 1 1   
## 100021026|29-A/G 100021644|9-C/A 100022215|30-A/G 100023511|29-G/A 100065011|9-G/T 100065481|45-G/C 100065665|18-T/G 100082041|35-T/G 100082540|39-C/T 6635352|11-C/T 6651637|46-A/C   
## 1 1 1 1 1 1 1 2 1 1 1   
## 6652697|44-G/A 6652848|23-G/T 6661188|24-G/C 6661506|68-A/T 6661846|36-C/G 100121512|16-T/C 100015223|24-C/T 100015336|36-G/A 100016018|57-G/C 100016257|18-G/A 100016363|39-C/T   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100016533|62-C/T 100017334|62-C/T 100017905|42-A/G 100018782|32-C/A 100018840|12-A/G 100018918|28-G/A 100018973|26-T/G 100019583|32-G/T 100020635|19-T/C 100020952|67-A/G 100021607|12-C/T   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100021759|51-G/A 100022391|27-T/C 100022668|57-T/C 100065738|47-G/C 100066164|11-G/A 100066550|5-T/C 6633324|49-T/G 6634529|30-T/C 6651763|8-A/T 6651994|28-A/G 6652616|33-T/C   
## 1 1 1 1 1 2 1 1 1 1 1   
## 6653336|20-T/C 6653857|60-T/A 6661332|57-A/T 6661613|21-G/A 100015558|12-T/G 100016614|13-A/G 100016893|9-G/A 100016974|14-T/C 100017016|14-G/C 100018076|32-A/G 100019206|6-T/G   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100019217|46-A/T 100019384|38-C/T 100019646|24-T/A 100019874|10-C/G 100019964|12-C/A 100020293|37-A/G 100020842|17-G/A 100021693|26-T/C 100022050|68-A/T 100022979|40-A/G 100023492|66-T/C   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100045668|41-G/A 100065160|26-C/T 100066259|47-G/A 6630074|25-T/C 6651026|5-A/G 6651431|37-C/G 6651540|51-T/C 6651708|27-C/T 6652397|25-T/C 6653258|20-A/C 6661295|56-C/A   
## 1 1 1 1 1 1 1 1 2 1 1   
## 100016658|9-C/T 100016823|19-A/C 100017190|25-A/G 100017629|18-T/C 100018573|66-T/A 100019552|33-T/G 100021046|26-A/G 100022548|38-A/C 100065206|29-C/A 100065846|12-T/A 6651279|28-G/C   
## 2 1 1 1 2 1 1 1 1 1 1   
## 6652199|28-G/A 6652400|17-C/T 6652445|11-A/T 6653155|9-C/G 6653256|29-G/A 6661317|35-T/C 6663970|38-G/C 6665305|7-T/C 100015212|40-T/C 100015773|62-T/C 100016229|66-G/T   
## 1 1 1 1 1 1 2 1 1 1 1   
## 100017966|44-G/A 100018540|41-C/G 100019145|8-G/A 100020607|26-G/A 100021569|14-G/A 100023034|23-C/T 100023386|11-T/C 100065690|24-C/G 6650623|27-T/C 6650909|20-C/G 6651336|17-C/T   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6651419|53-T/C 6652696|7-A/G 6652736|50-T/A 6653280|14-G/T 6653295|57-T/C 6653940|33-C/G 6661206|18-A/G 6661327|42-G/C 6664003|47-C/T 100015464|37-A/T 100015704|41-G/A   
## 1 1 1 1 1 1 1 1 2 1 1   
## 100016862|45-C/T 100019871|11-C/T 100020987|40-T/C 100021296|8-G/A 100065560|20-C/G 100066263|36-C/T 100066672|61-G/C 100082462|27-A/G 6632122|60-C/T 6650958|39-G/T 6651020|25-G/A   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6651285|11-A/G 6651625|35-A/G 6651661|21-C/A 6651716|31-A/G 6651796|30-T/G 6651885|10-A/T 6652069|22-A/G 6652117|17-A/G 6652234|42-G/A 6653188|36-T/C 6653368|52-A/G   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6661580|47-C/T 6661803|14-T/C 6661812|53-C/T 6661866|32-G/C 100015736|43-G/A 100016141|36-G/A 100017142|64-C/T 100019476|8-T/C 100022055|56-G/A 100022078|12-T/C 100022886|24-G/A   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6631211|9-C/T 6651047|34-T/G 6651407|46-C/T 6651481|28-G/C 6652585|52-T/G 6653252|68-G/A 6653882|52-A/T 6653901|21-A/T 6654029|48-A/G 100015720|28-G/T 100016789|20-G/T   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100016796|38-G/A 100017412|8-A/G 100017613|42-T/G 100017642|45-C/A 100017690|28-G/T 100018660|67-C/T 100020040|40-T/A 100021191|5-G/C 100023009|12-A/G 100065757|7-G/C 100066245|18-C/T   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100074042|5-T/C 100082359|43-C/T 6635615|63-A/T 6650495|22-G/C 6650509|12-C/A 6651034|16-A/T 6651369|18-C/G 6651472|63-T/C 6651525|65-T/G 6651657|19-G/A 6651750|54-T/C   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6652293|6-T/G 6652474|14-G/A 6653662|55-G/C 6661543|6-A/G 100017915|15-G/A 100020329|6-T/C 100021269|67-C/T 100021647|7-C/G 100065434|44-T/G 100091128|19-C/T 6630649|30-T/C   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6631485|63-C/T 6634232|23-C/T 6650379|29-C/T 6650507|19-A/C 6650854|20-G/A 6651417|34-C/T 6651649|55-G/A 6651797|46-C/T 6652137|50-T/C 6652171|14-G/C 6652353|59-C/T   
## 1 2 1 1 1 1 1 1 1 1 1   
## 6652439|17-A/C 6652481|49-A/G 6652592|44-C/T 6652631|8-T/C 6652759|5-G/C 6653033|21-C/A 6653086|60-T/C 6653403|58-C/G 6653441|17-C/A 6653651|15-A/G 6653652|24-C/T   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6653717|62-T/A 6653911|22-G/C 6657418|43-C/G 6658319|40-G/A 6661213|21-C/T 6661527|23-T/C 6664003|60-C/T 100017332|29-G/A 100018422|17-T/C 100019803|28-C/T 100020227|22-C/T   
## 1 1 1 1 1 1 2 1 1 1 1   
## 100021230|36-G/A 100045732|32-A/G 100065400|55-A/G 100065695|10-T/A 6650641|39-G/C 6650730|37-C/T 6651079|5-A/T 6651096|56-T/C 6651302|27-C/G 6651575|42-A/G 6651609|46-G/A   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6651712|16-T/C 6651755|6-C/G 6651927|7-C/T 6652423|26-A/G 6653022|23-G/C 6653024|17-C/T 6653143|11-A/G 6653233|66-T/A 6653287|46-C/T 6653308|9-A/G 6653555|27-A/C   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6653600|5-T/C 6653915|45-T/G 6653995|60-T/C 6657836|14-A/G 6661227|16-C/A 6661262|58-G/T 6661434|38-G/T 6661641|45-A/G 6661702|15-A/G 6662581|37-A/T 100114018|47-C/T   
## 1 1 1 1 2 1 1 1 1 1 1   
## 100016369|9-A/G 100017864|12-A/C 100018488|65-A/G 100018874|30-C/T 100022833|43-A/C 100045516|20-A/G 100065233|14-C/G 100065518|13-T/G 100065693|58-C/T 100066101|12-T/C 6633196|52-G/C   
## 1 1 1 1 1 1 1 1 1 1 2   
## 6633443|50-C/G 6650488|44-T/C 6650661|48-G/C 6650800|48-C/T 6650825|39-G/A 6650845|36-C/T 6650876|20-T/G 6651093|21-T/C 6651267|9-G/A 6651306|19-G/A 6651379|44-C/T   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6651554|67-T/C 6651736|43-T/C 6651932|30-T/C 6651941|51-C/T 6652116|48-C/T 6652661|48-C/T 6652756|60-T/C 6652829|67-A/G 6653016|28-G/A 6653035|59-T/C 6653400|19-A/T   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6653480|48-C/A 6653764|58-T/G 6654093|42-A/G 6661397|22-T/G 6663931|67-C/G 6663957|68-G/A 6663967|43-G/C 6665630|56-C/T 100017995|7-C/G 100020113|15-A/T 100022566|30-T/C   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100044990|7-T/C 100065049|7-G/T 100066339|40-A/G 100082461|32-T/A 6632579|11-G/A 6650828|56-C/T 6650907|12-G/C 6650924|57-A/T 6651078|6-G/A 6651186|45-G/A 6651357|21-G/A   
## 1 1 1 1 2 1 1 1 2 1 1   
## 6651533|11-T/C 6651835|18-A/G 6651845|5-C/T 6652615|62-G/A 6652654|38-A/G 6652959|31-C/A 6652967|19-C/T 6653003|36-G/C 6653135|53-G/T 6653227|62-A/G 6653345|29-G/T   
## 1 1 1 2 1 1 1 1 1 1 1   
## 6653424|16-A/C 6653449|26-T/C 6653581|57-G/C 6653676|29-A/G 6653712|15-T/C 6653723|10-C/T 6653956|18-A/G 6654001|23-C/A 6658504|15-C/A 6658614|43-T/G 6661202|35-A/G   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6661234|44-T/C 6661397|27-C/T 6661731|51-C/A 6661793|54-A/G 6663947|19-T/G 6664041|32-A/G 6664042|66-G/A 6664043|13-T/A 100017392|44-T/G 100020618|50-C/T 100022663|33-G/A   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6630289|20-G/C 6650619|36-T/C 6650638|22-A/C 6650699|38-T/C 6650728|58-T/C 6650755|23-T/A 6650783|14-G/A 6650849|14-T/C 6650880|67-A/G 6651095|41-C/T 6651245|18-T/C   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6651292|26-C/G 6651352|20-T/C 6651467|62-G/C 6651557|42-C/T 6651631|26-C/T 6651664|24-T/C 6651688|48-C/T 6651718|35-C/T 6651795|51-C/T 6651923|42-T/C 6651965|39-C/T   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6652219|19-T/C 6652378|63-C/T 6652434|66-A/C 6652655|53-T/G 6652722|31-C/A 6652830|22-T/C 6652882|43-C/A 6653040|42-C/T 6653271|6-A/G 6653385|63-G/T 6653386|12-C/T   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6653418|27-T/A 6653450|16-A/G 6653476|17-G/C 6653520|26-A/G 6653763|12-G/A 6653916|15-T/C 6654026|50-T/C 6654061|33-A/G 6657577|47-G/A 6657800|39-C/A 6658145|22-C/T   
## 1 1 1 1 1 1 1 1 1 2 1   
## 6658508|25-A/G 6661100|58-G/C 6661185|17-G/C 6661209|14-C/T 6661230|12-C/T 6661236|16-T/C 6661314|22-A/C 6661446|29-G/A 6661535|11-G/A 6661559|28-T/C 6661597|46-G/C   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6661642|45-G/T 6661657|60-G/A 6661731|68-A/G 6661796|25-A/G 6662683|15-T/C 6664747|36-A/C 6665469|54-T/A 6665629|23-C/G 100023210|29-C/A 100065681|26-G/T 100114697|13-C/G   
## 1 1 2 1 1 1 1 1 1 1 1   
## 6630523|63-G/A 6650409|45-T/C 6650528|28-G/T 6650721|49-C/T 6651065|27-G/T 6651098|23-T/C 6651125|47-G/A 6651426|10-G/A 6651605|61-C/A 6651634|10-G/C 6651759|12-C/A   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6651815|20-A/C 6652098|62-G/A 6652125|13-C/T 6652182|12-A/G 6652205|23-G/T 6652340|36-A/G 6652361|22-A/G 6652367|17-C/A 6652519|22-A/T 6652681|7-T/C 6652787|16-C/A   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6653095|8-G/T 6653128|9-G/T 6653131|30-G/A 6653340|41-C/T 6653516|66-C/G 6653855|60-C/A 6654020|41-T/C 6654087|18-G/A 6657400|14-C/T 6658359|12-G/A 6661176|55-C/G   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6661182|18-C/T 6661371|21-A/G 6661403|66-A/C 100065611|31-A/C 6661497|12-G/A 6661654|59-A/G 6662907|21-A/G 6663946|23-C/G 6665056|53-C/T 6665628|28-C/A 100019769|39-T/C   
## 1 1 1 2 1 1 1 1 1 2 1   
## 100082375|66-T/G 100082404|55-T/C 6650592|12-C/A 6651184|37-G/A 6652576|37-G/T 6652672|55-C/T 6653304|23-A/T 6656915|10-G/T 6657307|34-A/T 6657558|38-C/T 6658381|25-T/C   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6658521|6-G/C 6661752|23-A/C 6664327|23-G/A 100044751|5-A/G 100085984|13-G/A 100115531|5-T/A 6643578|12-A/G 100106109|11-G/A 100113138|5-T/G 100117994|11-T/A 6662821|6-T/A   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6664383|8-A/G 6665284|5-C/G 6665328|8-T/A 6665629|20-C/G 100118214|11-C/A 6663102|10-G/A 100021042|56-T/C 100090841|7-C/A 100103683|13-G/A 100103683|6-A/T 100106227|13-C/A   
## 1 2 1 1 1 1 2 1 1 1 1   
## 100106247|9-T/A 100111488|6-C/G 100112338|6-T/G 100114623|5-C/G 6644428|5-T/A 6647555|5-C/A 6648501|8-A/G 6648560|7-T/C 6658337|6-C/G 6664325|9-C/T 6664355|7-C/T   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6664406|5-G/T 6664885|10-C/T 6665134|5-A/G 6665147|13-C/T 100065344|49-T/C 6661457|44-C/T 6661867|13-G/A 6661122|26-C/T 100064630|57-A/G 100025554|68-T/A 6658677|32-C/G   
## 2 1 1 1 2 1 1 1 2 1 1   
## 6635413|16-T/A 6661764|43-C/A 6652801|27-G/A 100024646|8-G/C 100066569|63-G/A 6652374|43-T/C 6661449|54-A/C 6661688|9-G/T 6661583|7-C/T 6661219|45-G/A 100016118|67-A/C   
## 1 1 1 1 1 2 1 2 2 1 1   
## 100065968|17-C/T 6664008|7-T/G 100019909|40-A/G 100024919|19-A/C 100021772|52-T/C 100066372|27-A/G 100091350|43-A/C 100017975|34-A/G 100045781|34-C/A 6652884|53-G/A 100017252|27-G/A   
## 1 1 1 2 1 1 1 1 1 1 1   
## 100017894|53-G/A 100022254|26-T/A 6632275|61-T/C 100065115|49-T/C 100065825|30-T/C 6654008|51-C/T 6653230|18-T/G 100020850|15-T/A 100024608|28-A/G 100065720|36-C/T 100019004|19-T/C   
## 1 1 2 1 1 1 1 1 1 1 1   
## 100022949|21-T/C 100024718|58-G/A 100065076|9-G/C 6650868|53-G/A 100017101|27-T/G 100017766|10-C/A 100019793|62-T/A 100021136|57-G/A 100021706|33-T/C 100025017|58-T/C 6652036|20-T/C   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100015261|30-G/A 100015698|55-A/C 100016039|28-T/C 100021704|31-A/T 100021798|6-G/A 100022137|6-T/C 100022883|14-A/G 100023375|24-A/C 100064876|34-G/A 100022317|10-A/G 100065186|8-T/C   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6653805|57-G/C 100021710|10-A/G 100023305|24-G/A 6634600|17-T/C 6650598|62-C/A 100017818|14-T/G 100020277|67-T/G 100020322|14-C/T 100021252|30-G/A 100022007|39-C/T 100022967|55-T/C   
## 1 1 1 1 1 1 1 1 2 1 1   
## 100023231|52-G/C 100024979|12-A/T 6651448|5-C/A 6661619|36-C/T 100101013|46-C/T 100015916|40-T/G 100019381|29-T/C 100021309|54-A/G 100022531|25-T/C 100022877|17-A/C 100023365|32-C/T   
## 1 1 1 1 2 1 1 1 1 1 1   
## 100023869|51-T/A 100066103|5-G/A 100066389|65-G/C 6652703|57-T/C 100019288|33-T/C 100020549|44-T/G 100020551|60-A/T 100023117|6-G/T 100023343|62-G/A 100065070|10-C/T 100119322|60-G/T   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6653215|23-A/C 100015905|30-T/A 100018538|19-A/G 100020139|46-T/C 100020548|9-A/C 100065378|43-C/T 100065666|20-A/T 100065687|58-C/T 6651010|63-C/T 6651023|13-C/T 6651465|19-A/G   
## 1 2 1 1 1 1 2 1 1 1 1   
## 6653507|50-C/G 6661164|56-C/G 100015555|49-G/A 100017215|20-C/T 100018040|51-T/A 100018557|8-A/C 100019185|63-C/G 100019688|44-C/T 100023075|63-C/G 6630180|30-A/G 100015432|27-G/A   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100017493|63-A/G 100020399|26-G/A 100020528|67-A/G 100021151|33-C/G 100021753|16-G/A 100021795|51-G/A 100062072|14-A/C 100066634|26-T/A 6661693|17-A/G 100015331|61-T/C 100015609|28-G/A   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100017169|13-G/A 100017928|37-T/A 100019505|12-C/A 100020075|44-G/T 100020413|29-G/A 100021373|46-G/A 100021417|26-A/C 100022461|56-A/G 100022969|9-G/A 100023275|19-T/C 100082212|44-A/G   
## 1 1 1 1 1 1 1 1 2 1 1   
## 6652622|54-G/A 6653084|57-C/G 6653710|21-C/T 6653840|32-A/T 100021632|19-T/C 100022984|17-G/C 100064905|26-T/A 100015960|29-G/A 100016761|32-C/T 100017811|61-T/C 100019007|29-T/C   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100020970|16-G/A 100065097|13-T/C 6651396|51-T/G 6651430|31-C/T 100015246|12-A/G 100017606|48-T/C 100018953|27-G/C 100019018|13-A/G 100020129|19-G/A 100020404|28-A/G 100020733|17-G/A   
## 1 1 1 1 1 1 1 1 1 1 2   
## 100021724|12-A/C 100066663|43-G/A 100122660|5-A/G 6630550|32-T/C 6652105|37-A/G 100015837|30-T/C 100016214|35-G/T 100017908|21-G/A 100019267|32-G/A 100023141|5-C/T 100023174|41-C/T   
## 1 1 2 1 1 1 1 1 1 1 1   
## 100064755|8-G/A 6651656|34-G/A 6651767|59-G/C 6664728|67-C/T 100018065|63-T/A 100019510|9-G/A 100019632|22-T/C 100019754|7-A/T 100020251|60-G/A 100021712|18-T/A 100044571|14-T/G   
## 1 1 1 1 2 1 1 1 2 1 1   
## 6661691|15-C/T 6663917|15-C/T 100018085|21-A/G 100019876|24-A/C 100020554|42-G/T 100022262|60-C/A 100023321|57-A/G 100065480|65-T/A 6652163|42-T/G 6661278|34-C/G 6661299|21-G/T   
## 1 1 1 1 1 1 1 2 1 1 1   
## 100016113|5-T/A 100018753|18-C/A 100022995|26-G/A 100045005|36-T/A 100065425|18-T/G 100065813|42-A/C 100066450|34-C/G 6652607|6-A/G 6653544|67-T/C 6661463|59-T/G 6661534|24-C/T   
## 1 1 1 2 1 1 2 1 1 1 1   
## 100020053|13-A/T 100020534|56-C/G 100020747|66-T/A 100022664|19-A/G 100023314|12-C/T 100024345|29-C/T 100065655|8-A/T 100082306|16-G/C 6632614|14-G/C 6650544|61-G/A 6661521|5-G/A   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6661754|5-A/T 100017623|23-C/T 100019111|65-T/A 100020626|26-A/C 100022838|5-C/T 6661655|44-C/A 100015424|32-C/A 100017638|47-T/C 100019862|5-A/G 100064626|46-C/T 100066576|33-T/C   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100082421|35-G/T 100082421|56-A/T 6661595|45-G/A 100018565|14-C/T 100019547|16-A/T 100021316|68-A/T 100066021|13-T/C 100066577|66-T/C 6635995|53-T/G 6650794|31-T/C 6651294|52-C/T   
## 1 1 1 2 1 1 1 1 1 1 1   
## 6661643|39-A/C 6665642|53-T/C 100017091|53-T/C 100018288|5-C/T 100019411|13-C/T 100022970|53-A/G 100044935|38-C/G 100065133|26-G/A 100065604|17-G/A 6653270|12-C/T 100082437|5-G/T   
## 1 1 1 1 2 1 2 1 1 1 1   
## 100017079|68-T/A 100018306|21-T/A 100065207|61-C/A 6651674|58-G/A 6661762|25-C/T 100016541|14-A/T 100019240|64-C/A 100022760|39-A/C 6661631|14-G/T 100015984|25-C/T 100020169|39-T/G   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100020171|37-C/T 100020514|46-G/A 100093365|13-T/C 6631375|67-A/T 6651160|63-T/G 6651417|40-A/G 6653272|47-T/C 6661637|58-G/T 6661875|62-G/A 100016327|11-G/T 100017411|17-C/A   
## 1 2 2 1 1 1 1 2 1 1 1   
## 100021938|40-C/A 100104022|29-G/C 6653086|61-G/A 6654063|52-T/C 6661270|57-C/T 6661413|37-C/T 6661571|64-G/A 6662928|6-G/T 6665563|11-G/C 100015347|8-A/G 100015697|17-A/G   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6630379|34-A/G 6651111|37-G/A 6651135|63-T/A 6652080|40-C/G 6653891|42-G/A 6661255|43-T/G 6661262|56-A/G 6661441|11-A/G 100019678|23-G/T 100065386|6-G/C 100082362|41-C/G   
## 1 1 1 1 1 1 1 2 1 1 2   
## 100119892|9-C/T 6650706|34-C/G 6651084|9-T/C 6652828|42-G/A 6653640|66-C/T 6661213|29-A/C 6661501|61-G/T 100020312|34-A/G 100066078|57-C/T 6651216|56-G/C 6651663|16-T/G   
## 2 2 1 1 1 1 1 1 2 1 1   
## 6652291|30-C/A 6661623|16-C/T 6664064|11-C/A 100019069|65-C/T 6629913|31-T/G 6650658|32-T/C 6651643|7-G/A 6651651|36-T/C 6652652|32-C/T 6652781|24-G/A 6652781|64-C/G   
## 1 1 1 2 1 1 1 1 1 1 1   
## 6652958|54-G/C 6661185|61-C/T 6661218|12-C/T 6661232|58-C/T 6662683|28-G/C 6662714|21-A/C 6663024|21-C/T 100016570|44-C/T 100017965|14-G/A 100018649|23-G/A 100021210|28-A/G   
## 1 1 1 1 1 1 1 1 2 1 1   
## 100044629|5-T/A 100065997|37-G/A 100066075|25-C/G 100119599|31-T/C 6633592|39-A/T 6650534|49-T/C 6650535|67-A/T 6651337|9-A/G 6653918|11-A/G 6657564|24-C/T 6661126|11-C/T   
## 2 1 1 1 1 2 1 1 1 1 1   
## 6661428|5-C/T 6661666|46-C/T 6661783|8-T/C 6661798|20-C/T 6661798|28-T/C 6661836|10-G/A 6661836|20-G/C 6661863|56-C/T 6662849|35-T/C 6665679|46-T/G 100093359|29-C/A   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6629858|37-A/T 6643954|6-G/T 6652019|59-G/C 6652746|56-G/T 6652810|45-C/G 6653160|44-G/A 6653239|27-C/T 6653352|54-C/G 6653632|19-G/A 6662822|7-G/A 6664724|62-G/C   
## 1 1 1 1 1 1 1 1 1 1 2   
## 100044710|9-T/G 100093660|28-C/A 6633718|59-C/T 6641748|42-C/A 6658299|7-T/C 6661450|36-G/A 6643586|10-T/G 6643586|9-C/A 6648203|14-A/T 6664350|5-C/T 100106226|9-C/A   
## 2 1 1 1 2 1 1 1 1 1 1   
## 100111464|9-T/C 6643578|11-A/T 6664414|23-C/A 6664432|8-G/T 6643814|11-C/G 6643814|5-G/A 100100648|8-G/T 100103657|7-G/C 100106110|9-A/G 100106239|8-T/G 100109437|5-C/G   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100109437|9-C/G 100110529|5-C/T 100111487|5-T/G 100122090|8-T/A 6649192|5-T/C 6657874|5-G/C 6658144|18-A/T 6662919|11-A/C 6663018|25-T/C 6664273|5-C/A 6664306|8-C/A   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6664893|38-G/C 6664910|11-C/G 6665153|7-A/G 100082484|50-G/T 100118470|9-C/T 6664010|54-C/T 100046106|24-G/T 6666102|8-G/A 6657032|15-C/T 6665215|57-C/T 100018359|44-C/T   
## 1 1 1 1 2 1 1 1 1 1 1   
## 100023139|68-G/T 6664085|47-C/T 6661211|58-C/T 100066559|31-T/C 6663985|50-C/T 6665628|45-T/C 100097039|23-C/G 6665040|44-A/G 100093411|9-A/C 100093413|26-G/C 6634480|31-T/A   
## 1 1 2 1 2 2 1 1 1 1 1   
## 100065820|27-T/C 100065626|5-A/C 100017456|5-A/C 100065031|12-G/A 100090339|7-T/C 6654096|11-C/A 100045278|30-G/C 6650722|8-G/C 100023932|52-G/T 6661186|27-A/G 100066349|48-C/A   
## 1 1 1 1 1 2 1 1 1 1 1   
## 6664781|12-G/A 100018124|53-C/G 100064999|21-G/A 100074314|17-G/A 6661474|58-C/G 6664089|39-C/A 100074315|18-C/T 100109510|37-A/G 100106299|29-A/C 6652532|17-A/G 6666146|37-G/A   
## 1 1 2 1 1 1 1 1 1 1 1   
## 100020687|19-G/A 100017102|43-A/G 100016103|11-C/T 100016936|24-G/C 100065009|15-G/C 100021792|22-G/A 100065064|48-C/T 6651486|23-C/A 100022395|5-G/T 6635620|7-T/G 100021158|56-G/C   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100024001|29-C/A 100065225|30-T/C 100065766|32-C/A 100065871|7-G/C 6657554|17-A/G 100021381|48-A/G 100065073|30-T/C 100065186|6-A/G 100082387|67-G/T 100022890|66-G/A 100023224|41-T/C   
## 1 1 1 1 1 1 1 1 1 2 1   
## 100066151|44-C/A 100065712|39-A/G 100016548|22-A/C 100018316|52-G/A 100018669|51-A/G 100020096|10-G/A 100021832|59-T/C 100045940|24-C/A 100066650|24-A/G 100045116|6-C/T 100112452|57-A/G   
## 1 1 1 1 1 1 1 1 1 2 1   
## 6653883|52-C/G 100021186|32-G/C 100021930|67-G/A 100065300|66-G/T 100082101|62-A/G 100119315|9-G/T 6650840|6-C/G 6664036|6-A/T 100015791|35-A/G 100021993|35-A/T 100065071|26-C/T   
## 1 1 2 1 1 1 1 1 1 1 1   
## 100106305|20-G/C 100020586|49-T/G 100022366|24-T/C 100022982|18-T/C 100102365|9-C/G 100016200|62-T/G 100017620|16-C/T 100018736|57-T/C 100020340|6-T/C 100066082|8-G/T 6663098|31-C/G   
## 1 1 1 1 1 1 1 2 1 1 1   
## 100018726|57-G/T 100019037|42-G/A 100021366|54-C/T 100022220|45-A/G 100066146|14-T/C 100066266|57-C/G 100066574|19-T/C 100016560|7-T/C 100066037|49-C/G 100121195|35-C/G 100018616|49-T/G   
## 1 1 2 1 1 1 1 1 1 1 1   
## 100066663|58-T/C 100118142|5-T/C 6665806|57-G/A 100018844|30-C/T 100091301|63-G/T 100096922|11-G/T 6651543|26-C/T 100016510|41-T/A 100018353|22-G/T 100019853|68-A/T 100021078|39-A/T   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100021925|13-A/G 100065479|51-A/G 100066412|14-T/C 100091301|22-C/G 100019195|66-T/A 100023208|34-G/A 100065057|21-C/T 100065426|35-C/A 100073631|7-G/C 100016006|34-T/G 100017176|29-G/A   
## 1 1 1 1 1 1 1 1 2 1 2   
## 100018612|5-A/C 100020218|34-A/C 100065408|22-T/G 100065476|64-G/A 100065761|7-G/A 6632042|19-G/C 100015587|20-C/A 100016037|24-A/G 100021787|68-A/C 100022942|14-C/G 100066550|58-G/A   
## 2 1 1 1 1 1 1 1 2 1 1   
## 100082539|7-G/A 6650594|30-T/G 6653546|21-T/C 6664281|14-A/T 100016076|49-A/C 100022081|49-G/A 100022274|36-C/A 100116482|57-T/A 100121512|34-G/C 100017777|61-G/A 100064625|41-A/G   
## 1 2 1 2 1 1 1 2 1 1 1   
## 100064874|12-T/C 100106306|45-G/A 100106306|65-G/A 100021587|57-C/T 100065160|65-G/T 100073403|34-A/C 100082633|51-A/G 100097045|48-T/C 6652651|47-T/A 6661761|37-C/T 100017728|53-A/C   
## 1 1 1 2 1 1 1 1 1 1 1   
## 100065286|5-A/C 100082197|10-C/T 6633952|10-G/C 6657904|18-T/C 100065579|38-A/C 6661858|20-C/A 100019471|14-G/A 100044832|16-G/T 100065848|33-G/A 100066117|37-G/T 100112452|34-A/G   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6630404|40-A/C 100103994|35-G/T 100017343|6-T/C 100064738|40-C/G 100064746|17-G/A 100074010|27-G/C 6631936|55-T/C 6661620|58-C/G 100016884|51-C/A 100065351|47-C/G 6631698|7-C/G   
## 1 1 1 2 1 1 1 2 1 1 1   
## 6652538|34-T/C 6657259|24-G/A 100016745|16-T/C 100065233|43-G/A 6630611|19-A/C 6652270|62-C/G 6652729|29-T/G 100020530|29-C/A 6630408|13-G/T 6630626|34-A/T 6631766|58-C/A   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6633539|7-G/A 6634322|14-T/G 6652458|12-A/T 6653006|66-G/A 6653115|48-T/A 6663957|45-C/T 100066473|39-A/G 6650554|32-A/G 6657465|23-T/A 6663949|9-G/A 100020033|33-A/C   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100082315|13-G/A 6629848|65-C/G 6630880|24-C/G 6650849|38-G/A 6650881|15-G/A 6651487|20-C/T 6651826|47-T/A 6652855|33-G/T 6657563|28-T/G 6657811|15-G/A 6658667|25-T/G   
## 2 2 1 1 1 1 2 1 1 1 1   
## 6662907|9-T/A 6665143|45-A/G 100021831|19-T/A 100045184|5-G/C 100065651|20-A/C 100066434|64-T/A 100066660|33-T/C 6633749|29-T/A 6635481|20-A/G 6650535|47-C/A 6652320|27-G/C   
## 1 1 1 2 1 1 1 1 1 1 1   
## 6652796|29-G/C 6654065|42-C/G 6657294|51-C/A 6658085|11-A/G 6661346|29-T/A 6661679|17-C/T 6662799|12-C/A 6662831|22-C/T 6663021|23-A/G 100085932|36-G/C 6630269|58-C/T   
## 2 1 1 1 2 1 1 1 1 2 1   
## 6630995|13-C/T 6633153|34-C/T 6644233|38-G/T 6650943|57-C/G 6650961|27-T/G 6651177|55-C/G 6651864|18-T/C 6652465|10-A/T 6652776|7-C/T 6654017|47-C/T 6657683|10-G/C   
## 1 1 1 1 2 1 1 2 1 2 1   
## 6657925|11-T/C 6658404|12-T/G 6664915|43-G/T 100045721|8-T/A 100082404|10-G/T 100093333|22-G/A 6633054|40-T/A 6642765|20-C/T 6643196|21-C/G 6653359|24-C/T 6658471|31-G/C   
## 1 1 1 1 1 1 2 1 1 1 2   
## 100065416|12-T/C 6661414|26-T/C 6664306|12-G/A 6665409|5-T/A 6642901|10-G/A 100108705|8-G/A 6665151|5-A/T 100122090|6-T/A 6662690|20-C/T 100016003|7-T/A 100016649|43-T/C   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100019431|29-C/T 100023959|16-T/C 100024997|62-T/G 100044851|16-G/C 100064658|7-C/T 100064682|49-G/A 100064707|51-G/A 100064714|52-G/A 100064753|29-A/G 100064840|30-G/A 100065000|48-T/C   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100065025|5-A/G 100065087|14-G/A 100065157|40-T/G 100065238|55-G/T 100065368|11-G/C 100065400|61-A/G 100065428|33-G/C 100065497|38-G/T 100065538|49-T/G 100065597|12-A/T 100065605|63-C/A   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100065647|9-T/C 100065669|36-A/C 100065706|45-G/A 100065736|5-A/G 100065739|9-C/T 100065933|35-G/A 100066025|19-T/C 100066134|25-T/C 100066259|18-C/T 100066274|66-A/G 100066332|57-T/A   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100066410|32-G/A 100066624|60-C/G 100082151|41-C/A 100082232|23-T/G 100082297|57-C/T 100082311|43-C/T 100082409|16-T/A 100082418|7-T/C 100082564|6-T/C 100082633|21-G/A 100086276|23-G/T   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100086585|5-G/T 100091075|52-C/T 100091130|54-T/C 100093549|30-T/C 100098502|34-A/T 100101042|48-T/G 100121195|12-A/G 100121196|29-T/C 100121197|43-C/G 100121199|47-T/A 100121200|51-T/C   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100122496|35-G/A 6630263|32-T/A 6630513|10-G/C 6631038|8-T/C 6631621|56-C/G 6633643|35-C/T 6634127|43-A/G 6635254|35-A/C 6641856|17-G/T 6642355|17-A/G 6650389|35-G/A   
## 1 1 1 1 1 1 2 1 1 1 1   
## 6650444|8-A/G 6650519|63-A/G 6650553|61-C/G 6650587|17-C/A 6650591|24-A/G 6650676|68-C/T 6650899|7-G/A 6650902|63-C/T 6650919|10-A/G 6651039|12-G/A 6651054|54-C/T   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6651207|33-A/G 6651431|65-C/G 6651512|39-C/A 6651635|32-C/T 100065262|63-T/A 6651763|26-G/A 6651874|8-T/A 6651879|12-C/T 6652022|6-C/T 100065511|46-G/C 6652174|20-A/T   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6652193|50-G/A 6652287|47-C/A 6652538|35-G/A 6652743|25-G/A 100065924|8-G/T 6652898|57-G/T 6653034|66-G/A 6653037|45-C/G 6653161|37-C/T 6653161|51-C/G 6653240|43-A/G   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6653383|7-T/C 6653394|26-G/A 6653420|30-G/T 6653514|60-C/G 6653521|20-A/T 6653525|7-A/G 6653571|21-G/T 6653574|48-G/T 6653793|20-C/T 6653861|28-C/G 6653990|38-G/A   
## 1 1 1 1 1 1 1 1 1 1 2   
## 6654094|56-G/T 6654108|11-A/G 6657811|16-C/T 6658021|8-T/G 6658173|44-C/A 6658487|25-C/A 6658616|17-G/T 6661180|50-T/C 6661214|14-C/G 6661229|60-G/A 6661236|33-G/A   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6661487|18-A/G 6661524|9-G/A 6661550|30-T/C 100082471|28-C/T 6661631|29-G/C 100082491|60-C/T 6661651|25-G/A 100082562|68-C/A 6661778|27-A/G 6661827|57-C/G 6661838|61-A/T   
## 1 1 2 1 1 1 1 1 1 2 1   
## 6661845|30-A/G 6662631|42-G/A 6662646|5-A/C 6662657|27-G/A 6662765|9-A/G 6662767|43-T/A 6662797|33-T/C 6663018|35-C/G 6663941|10-G/C 6663953|25-A/G 6663990|56-G/T   
## 1 1 1 1 1 1 1 1 1 1 2   
## 6664007|22-C/A 6664018|43-T/C 100091330|60-C/T 6664739|19-C/T 6665051|50-C/A 6665130|20-T/A 6665130|26-T/A 6665131|16-G/T 100109477|22-G/A 6665563|54-C/T 6665566|58-T/C   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6665567|59-A/G 6665600|6-T/C 6665637|6-G/C 6665638|50-G/C 6665992|26-C/T 6666146|48-T/C   
## 1 1 1 1 1 1   
##   
## # Number of alleles per population:   
## Bullen Range Kambah Pool Lanyon Murramore Nerreman Tharwa Sandwash   
## 7177 7130 7024 7059 7365 7465   
##   
## # Percentage of missing data:   
## [1] 22.73779  
##   
## # Observed heterozygosity:   
## 6661549|60-C/T 6650588|15-C/T 6661794|21-A/G 6664081|63-G/A 6653885|30-A/G 6661177|64-C/T 6661457|52-C/T 6653401|39-G/A 6657572|30-T/A 6661566|34-A/G 6663962|65-C/T   
## 0.895833333 0.695238095 0.594339623 0.593301435 0.606965174 0.628959276 0.856000000 0.616071429 0.600917431 0.602739726 0.648648649   
## 6665217|18-A/G 6661207|60-A/C 6661398|51-C/T 6651899|27-T/A 6653020|28-A/C 6653704|64-T/G 6650504|59-T/C 6652003|38-G/C 6661105|11-G/T 6661432|29-C/A 6652162|44-A/T   
## 0.604790419 0.603375527 0.679775281 0.634782609 0.600000000 0.596566524 0.615023474 0.623456790 0.612903226 0.705583756 0.603305785   
## 6653798|57-C/T 6653191|40-A/G 6664876|31-G/A 6661163|31-T/C 6652675|16-G/T 6652288|45-C/T 6650933|66-G/A 6653948|58-T/C 6663083|49-G/A 6662726|45-A/G 6664756|9-C/T   
## 0.669902913 0.594594595 0.594827586 0.729508197 0.629139073 0.658730159 0.606837607 0.568306011 0.565022422 0.703703704 0.646017699   
## 6661688|18-A/G 6666128|43-C/G 6652433|13-A/G 6652352|5-T/C 6664270|14-C/A 6651416|17-C/T 6664751|11-T/A 6657734|47-A/G 6663081|18-A/G 6651148|64-A/T 6656916|22-T/C   
## 0.680555556 0.588477366 0.595744681 0.573033708 0.606694561 0.645669291 0.581589958 0.578947368 0.586826347 0.600823045 0.568965517   
## 6653573|49-T/C 6661198|22-T/G 6665027|17-A/T 6664900|6-C/T 6650826|66-G/A 6653766|40-A/C 6665588|8-C/T 6652573|8-C/A 6652700|14-C/G 6664334|9-A/G 6651772|17-A/T   
## 0.632258065 0.575107296 0.591666667 0.576744186 0.658119658 0.587500000 0.604166667 0.604938272 0.595959596 0.591489362 0.579166667   
## 6651828|36-G/A 6650476|13-A/C 6651474|15-T/C 6652836|30-C/T 6653346|25-C/A 6658563|22-C/T 6661870|10-G/T 6657169|37-T/C 6661569|7-A/G 6652342|46-G/A 6656937|18-C/T   
## 0.669811321 0.563559322 0.574712644 0.563318777 0.595555556 0.587155963 0.573839662 0.562043796 0.639344262 0.632812500 0.618421053   
## 6661537|56-G/A 6664008|14-G/A 6651473|53-G/A 6661884|29-T/A 6662691|24-C/T 6661181|61-C/T 6651798|39-C/A 6661610|46-T/C 6653512|60-C/G 6651413|19-C/A 6651436|18-C/T   
## 0.598290598 0.701657459 0.569230769 0.563876652 0.578512397 0.587628866 0.616161616 0.551282051 0.556962025 0.533333333 0.644736842   
## 6663093|22-C/A 6652854|20-T/C 6657907|22-C/T 6664719|5-A/G 6651857|34-G/T 6658182|11-G/A 6661203|33-G/T 100066381|65-T/C 6661291|28-A/C 6651404|67-A/G 6661583|6-T/C   
## 0.596774194 0.549763033 0.555045872 0.571428571 0.569620253 0.610576923 0.558333333 0.585227273 0.546666667 0.584210526 0.636363636   
## 6653019|13-C/T 6661633|39-G/T 6653539|14-G/C 6652507|49-A/G 6662661|7-T/C 6661859|57-A/G 6661395|60-C/T 6661690|43-G/A 6653303|26-C/T 6650697|6-C/A 6661748|26-C/T   
## 0.560975610 0.670454545 0.568750000 0.513157895 0.588235294 0.572519084 0.784313725 0.523605150 0.570312500 0.562211982 0.593750000   
## 6661276|34-A/G 6651590|59-C/G 6661435|48-G/A 6664012|53-A/G 6651071|8-C/T 6661174|27-G/A 6657901|34-G/A 6661288|56-T/C 6664895|15-G/A 6665065|54-A/G 6653483|52-C/T   
## 0.557077626 0.563981043 0.692307692 0.560344828 0.545833333 0.598591549 0.554502370 0.553571429 0.611111111 0.587962963 0.544378698   
## 6652822|57-G/A 100065688|55-A/G 6661405|37-G/T 6661817|33-A/G 6651443|47-G/T 6651921|15-T/A 6654090|16-G/A 6653899|53-A/G 6661211|62-G/A 6652984|32-G/A 6661495|42-T/C   
## 0.556291391 0.632075472 0.548936170 0.565000000 0.547325103 0.637931034 0.588709677 0.551724138 0.776397516 0.529661017 0.512820513   
## 6650679|43-C/T 6661246|33-G/A 6653043|54-C/G 6651254|12-A/T 6653789|32-G/T 6650988|24-G/A 6650862|68-C/A 6653541|8-A/G 6662900|30-G/A 6653618|37-G/A 6664721|14-C/T   
## 0.635514019 0.509009009 0.534979424 0.535087719 0.533653846 0.551569507 0.603305785 0.511210762 0.536697248 0.553672316 0.537878788   
## 6652395|48-C/T 6661842|33-T/A 6661739|54-G/A 6652644|26-G/A 6652332|20-T/C 6651976|25-G/A 6661113|14-C/T 6661301|20-G/A 6662986|27-C/T 6653529|7-G/A 6651972|24-A/G   
## 0.523364486 0.534979424 0.526315789 0.525641026 0.516587678 0.530701754 0.663551402 0.474747475 0.552147239 0.525821596 0.497872340   
## 6652901|58-C/T 6653167|32-C/T 6652763|59-G/A 6651610|56-G/C 6661486|27-C/T 6664344|37-A/G 6661743|17-G/A 6651212|18-A/G 6651054|64-T/A 6653313|42-A/G 6652640|45-C/A   
## 0.462500000 0.591304348 0.546255507 0.525000000 0.651162791 0.542168675 0.519736842 0.568862275 0.606965174 0.504545455 0.500000000   
## 6653127|48-G/A 6652179|62-G/A 6664422|18-A/G 6661732|8-C/T 6658587|26-G/A 6661161|53-A/C 6657089|25-C/T 6650998|9-A/T 6652379|23-G/C 6652823|50-C/A 6653209|28-G/C   
## 0.563380282 0.523605150 0.532934132 0.508333333 0.551282051 0.506382979 0.578231293 0.502057613 0.478991597 0.550387597 0.566666667   
## 6664750|24-C/T 6666098|18-G/A 6664416|28-A/G 6661208|26-A/T 100017494|26-T/C 6657426|10-G/T 6650467|17-T/C 6661591|23-T/C 6661615|53-A/G 6651689|52-C/T 100093282|6-C/T   
## 0.523206751 0.513513514 0.468750000 0.523437500 0.518072289 0.485232068 0.517006803 0.506172840 0.508620690 0.508875740 0.511627907   
## 6651044|31-C/T 6663926|8-G/A 6661122|39-C/T 6653015|45-G/T 6651960|46-A/G 6658395|10-A/G 6664288|7-C/G 6651937|12-G/T 6661119|32-T/C 6653567|68-C/T 6657105|21-A/G   
## 0.480176211 0.692307692 0.773333333 0.509259259 0.488584475 0.467661692 0.500000000 0.480519481 0.513761468 0.490990991 0.485849057   
## 6653958|12-C/T 6664417|17-G/A 6653929|22-G/A 6653560|40-C/T 6651307|58-C/T 6651918|7-T/C 6652335|27-T/C 6652403|61-A/C 6661676|25-C/T 6657686|15-A/G 6661180|15-G/A   
## 0.480263158 0.518987342 0.493421053 0.497925311 0.487500000 0.503267974 0.491803279 0.485355649 0.489795918 0.527272727 0.553398058   
## 6664065|56-A/T 6662654|14-C/T 6661258|19-T/G 6661326|21-G/T 6661503|51-G/A 6665677|54-T/C 6651345|67-A/G 6653158|39-C/T 6661434|33-C/T 6650700|61-G/A 6665573|50-G/T   
## 0.515625000 0.564885496 0.502145923 0.483091787 0.480000000 0.462184874 0.431578947 0.520000000 0.476793249 0.494382022 0.460937500   
## 100103686|15-C/T 6661407|28-A/T 6662956|24-T/G 6653198|44-C/T 100119886|12-A/G 6653976|22-T/C 6661123|44-T/C 6661423|44-C/T 6661694|9-T/C 6653208|48-G/A 6661587|35-T/C   
## 0.647619048 0.488687783 0.487603306 0.547368421 0.453744493 0.448275862 0.482758621 0.547619048 0.482300885 0.507042254 0.402439024   
## 6653932|10-C/T 6657861|14-G/A 6664287|35-C/T 6653108|33-A/G 6650863|33-C/T 6653166|35-T/C 6652001|24-A/G 6657913|25-C/G 100109898|15-G/A 6661240|65-T/A 6661268|13-G/A   
## 0.398058252 0.497560976 0.549295775 0.469483568 0.466666667 0.481707317 0.468085106 0.437768240 0.461883408 0.463414634 0.533834586   
## 6653580|43-G/T 6657145|22-C/A 6661660|20-C/T 6652645|41-C/T 6651100|28-C/T 6661548|20-A/G 6657725|32-C/T 6652908|9-A/T 6661838|60-T/G 6652562|28-G/A 6654077|33-C/T   
## 0.452674897 0.451612903 0.450216450 0.418918919 0.437125749 0.623655914 0.530434783 0.444444444 0.454935622 0.521739130 0.445833333   
## 6661761|38-G/A 6658102|52-C/T 6657350|31-T/A 6651178|33-C/T 6661253|38-T/C 100104030|16-C/A 6664895|24-C/A 6653522|21-A/G 6661899|11-A/G 6650883|48-C/T 6661607|53-C/G   
## 0.612244898 0.491124260 0.475138122 0.425000000 0.425233645 0.474654378 0.458333333 0.500000000 0.546762590 0.443925234 0.444444444   
## 6654004|30-T/A 6653722|5-T/G 6654003|26-C/A 6652045|5-C/T 6658305|27-T/C 6657714|46-T/C 6661603|40-G/C 6650949|5-A/T 6664725|29-A/G 6657697|38-A/G 6661471|62-C/G   
## 0.422018349 0.417777778 0.442396313 0.500000000 0.491803279 0.461538462 0.439655172 0.398340249 0.433962264 0.371980676 0.464912281   
## 6661765|40-G/A 6661481|66-A/C 6653282|53-T/C 6652110|26-C/T 6652196|51-C/T 6652944|56-G/A 6658191|17-C/G 6661286|15-G/A 6653684|7-T/C 6653203|66-A/G 6661751|44-T/G   
## 0.406113537 0.431192661 0.428571429 0.460937500 0.420289855 0.521367521 0.440594059 0.411214953 0.457516340 0.411214953 0.413043478   
## 6661711|66-G/A 6650674|36-C/T 6653554|14-G/A 6651804|55-G/C 6664076|29-C/A 6663980|50-G/A 100102214|5-C/T 6653379|50-A/G 6651865|33-T/G 6661260|22-A/T 6651954|62-T/C   
## 0.376068376 0.412500000 0.414634146 0.418750000 0.429864253 0.410041841 0.493243243 0.403361345 0.384297521 0.385281385 0.410377358   
## 6656942|42-G/A 6652635|57-G/A 6661149|41-C/T 6650632|65-G/A 6650568|31-G/C 6650938|6-C/T 6658511|21-A/C 6654094|65-T/C 6653106|31-C/T 6661381|44-A/G 6652779|66-A/G   
## 0.361702128 0.410596026 0.414414414 0.387755102 0.374485597 0.376744186 0.427966102 0.364705882 0.392070485 0.412087912 0.369158879   
## 6650898|47-G/A 6657805|7-A/G 6661727|46-C/T 6662592|9-C/T 6661085|13-C/T 6661239|45-A/G 6665990|9-G/C 6650977|39-G/A 6652000|22-C/T 6658391|30-C/T 6661184|41-C/G   
## 0.364928910 0.416243655 0.383783784 0.415929204 0.375000000 0.448598131 0.663865546 0.366071429 0.371559633 0.388646288 0.367965368   
## 6651519|67-C/G 6652011|54-C/T 6661376|29-C/T 6650669|9-A/G 100073501|45-A/G 6651742|50-G/A 6653416|29-C/T 6661643|49-G/A 6650635|62-G/A 6651529|9-C/T 6652878|58-G/T   
## 0.379166667 0.396551724 0.346153846 0.387234043 0.481481481 0.374485597 0.415094340 0.365740741 0.356223176 0.371681416 0.455284553   
## 6665222|67-C/A 6661481|18-C/T 6665990|48-C/G 6661216|67-C/T 6663955|62-T/C 6652246|10-G/A 6661167|12-T/A 6661710|53-G/A 6664085|17-G/T 6661652|62-A/C 6657045|15-A/G   
## 0.373949580 0.549295775 0.648854962 0.335329341 0.349056604 0.299065421 0.353909465 0.379888268 0.455089820 0.377682403 0.472727273   
## 6661805|6-C/G 6652339|26-G/T 6661277|47-G/A 6661335|49-T/G 6652597|28-C/T 6661737|51-G/T 6664079|62-A/T 6661334|49-G/T 6661187|52-C/T 6653800|24-G/A 6665242|22-G/A   
## 0.364055300 0.387640449 0.375000000 0.369158879 0.341317365 0.336206897 0.358024691 0.370558376 0.389221557 0.318385650 0.394736842   
## 6651247|35-C/G 6653693|39-C/A 6661436|12-T/C 6650629|61-C/A 6653328|49-C/T 6650603|26-A/G 6651494|48-G/A 6652060|23-C/T 6657933|10-C/T 6651038|40-T/C 6664362|28-C/T   
## 0.361344538 0.555555556 0.324200913 0.366515837 0.468468468 0.378571429 0.380281690 0.348936170 0.495145631 0.319327731 0.341317365   
## 6651571|67-C/T 6664050|15-A/G 6652084|30-C/T 6661846|32-C/T 6653638|33-A/C 6657305|12-A/C 6663909|36-C/T 6661305|58-A/G 6657606|35-G/A 6661206|19-A/C 6657339|6-G/A   
## 0.353293413 0.440366972 0.331877729 0.350877193 0.314049587 0.350427350 0.358490566 0.283653846 0.379310345 0.308724832 0.379844961   
## 6657292|22-T/A 6661485|59-A/G 6650475|43-C/T 6652083|41-G/A 6663998|25-T/C 6661115|22-T/G 100102214|35-G/A 6651822|26-T/C 6653698|49-A/T 6651072|34-A/C 6661221|40-G/A   
## 0.318181818 0.337016575 0.392523364 0.320833333 0.341614907 0.321888412 0.362068966 0.361445783 0.324786325 0.343750000 0.310043668   
## 6664084|45-C/T 6664046|47-A/G 6664412|13-G/A 6652764|38-C/T 6652859|41-C/T 6662842|43-C/T 6653459|28-T/C 6652467|20-G/T 6658444|32-T/G 6663948|54-G/A 6661848|65-T/G   
## 0.325396825 0.352941176 0.326530612 0.333333333 0.310810811 0.420560748 0.299516908 0.315126050 0.323651452 0.311004785 0.324074074   
## 6661692|19-C/T 6661666|47-C/A 6657189|5-T/A 6663931|25-C/T 6661747|23-A/G 6664777|21-T/G 6657196|41-G/A 6662626|20-G/C 6661431|59-G/A 6651183|67-C/T 100020564|19-A/G   
## 0.404255319 0.266375546 0.382812500 0.404109589 0.304932735 0.285123967 0.291666667 0.310344828 0.286343612 0.323353293 0.255813953   
## 6658409|20-A/C 6661097|28-C/T 6657230|7-A/G 6661119|56-G/A 6661554|36-A/G 6650618|9-G/C 6653999|19-C/T 6663991|5-C/T 6652381|42-A/T 6651915|13-C/T 6662884|19-C/T   
## 0.292181070 0.329341317 0.314720812 0.324786325 0.316326531 0.287610619 0.231578947 0.310810811 0.286363636 0.302439024 0.276595745   
## 6664330|6-A/G 6658057|21-T/G 6664271|29-T/G 6658345|31-A/G 6664281|18-T/A 6651466|33-G/A 6651085|26-C/T 6653605|24-T/C 100044679|44-A/G 100115090|8-A/G 6661464|30-G/T   
## 0.273127753 0.293388430 0.295652174 0.280487805 0.277056277 0.265765766 0.281250000 0.283505155 0.302197802 0.246636771 0.283783784   
## 6650884|45-C/T 6661861|5-T/C 6651870|51-T/C 6650549|15-C/T 6662909|15-A/C 6661345|10-T/C 100096951|40-T/A 6651934|39-C/A 6653561|20-A/G 6663982|40-G/A 6661677|22-C/T   
## 0.325396825 0.264044944 0.293859649 0.276190476 0.342857143 0.252212389 0.287610619 0.282828283 0.284615385 0.276315789 0.261467890   
## 6661705|29-C/G 6661413|63-C/T 100065757|18-C/G 6661266|30-A/G 6661310|64-T/C 6661349|63-A/G 100116458|50-G/A 6665749|7-G/A 6652731|67-C/G 6653078|31-C/T 6653889|13-C/T   
## 0.287081340 0.266666667 0.238095238 0.303482587 0.298429319 0.259615385 0.242798354 0.259433962 0.262500000 0.233480176 0.268292683   
## 6650390|62-T/A 6665512|36-G/A 6653694|33-C/T 6661130|57-A/C 6650397|43-A/G 6652725|65-G/A 6664898|31-T/A 6664740|45-G/A 6661717|60-G/A 6661866|27-T/C 6661803|57-G/C   
## 0.236842105 0.292452830 0.254166667 0.251028807 0.272727273 0.250000000 0.243093923 0.226804124 0.244541485 0.297520661 0.216494845   
## 6653812|35-T/C 6653634|39-G/A 6653421|13-A/G 6653117|34-C/G 6652078|22-T/A 6663918|8-C/G 6651738|38-G/C 100073717|6-G/A 6662614|36-C/T 6663009|7-C/T 6665630|52-T/C   
## 0.256097561 0.223214286 0.229787234 0.228310502 0.235537190 0.226337449 0.234567901 0.209302326 0.250000000 0.257575758 0.247422680   
## 6661118|33-G/A 6651890|7-G/A 6650967|42-C/A 6661605|18-C/T 6651286|19-T/A 6653631|43-C/T 6661436|18-C/T 6661386|46-C/T 6656991|15-A/G 6658489|9-C/T 100018527|6-C/T   
## 0.239819005 0.220657277 0.230452675 0.289473684 0.218340611 0.261682243 0.226666667 0.227027027 0.290909091 0.256637168 0.204651163   
## 6663957|56-G/A 6653138|31-G/A 6653361|55-G/A 6662597|30-A/G 6653013|37-T/C 6664770|35-T/G 100018912|62-G/T 6650463|42-T/A 6664775|59-A/G 6651694|29-A/T 6664064|49-A/G   
## 0.230769231 0.198275862 0.196428571 0.194029851 0.248175182 0.213333333 0.197530864 0.205761317 0.176795580 0.180555556 0.207048458   
## 6652918|18-G/A 6651840|35-G/A 6651055|13-G/A 6653477|22-A/T 6661719|26-T/A 6661828|67-T/A 6654030|47-G/A 6665066|58-G/C 6653260|47-G/T 6650860|49-G/A 6654039|20-G/A   
## 0.202702703 0.212643678 0.242857143 0.196652720 0.226744186 0.228070175 0.175355450 0.166666667 0.185185185 0.197309417 0.186868687   
## 6665336|52-C/T 6650985|20-G/A 6665243|28-G/C 6662888|44-A/C 6665236|63-T/C 6663983|17-C/T 100066027|14-A/T 6653607|5-T/C 6661170|39-C/T 6661781|60-G/A 100073694|44-G/A   
## 0.218934911 0.171717172 0.166666667 0.202479339 0.197530864 0.181102362 0.182203390 0.196629213 0.270000000 0.175438596 0.183574879   
## 6663947|55-T/C 6661831|54-T/C 6652266|47-T/C 6663080|20-G/A 6665672|66-T/A 6658491|28-C/A 6661680|19-G/T 6662595|39-C/T 6665990|6-A/T 6657377|47-C/T 6661828|68-T/A   
## 0.191616766 0.173728814 0.201388889 0.161616162 0.177215190 0.161434978 0.156250000 0.230000000 0.166666667 0.133858268 0.185185185   
## 6651958|27-A/G 6653919|17-C/T 100021874|46-A/G 100016068|62-T/A 6665489|31-C/T 100082278|57-C/T 6651291|51-G/T 6653890|21-C/T 6663954|56-C/A 100021943|40-T/C 6652214|62-T/A   
## 0.192771084 0.204724409 0.136986301 0.153508772 0.154185022 0.165048544 0.155172414 0.148717949 0.151079137 0.151260504 0.140350877   
## 100022950|33-A/C 6651253|68-C/T 6650643|36-C/A 6652860|42-G/A 6664014|62-G/A 6661808|48-C/T 6658138|27-A/C 100017513|60-C/T 6661261|32-C/T 6652821|67-C/T 6666304|10-A/T   
## 0.148760331 0.171171171 0.142857143 0.140425532 0.158798283 0.158878505 0.156378601 0.137931034 0.147826087 0.137724551 0.149659864   
## 6665455|61-G/T 100082682|51-T/C 6653384|6-A/G 100023325|25-A/G 100101067|36-C/T 6651685|49-T/A 6653586|60-T/C 6666177|13-A/T 6652540|8-G/T 6651209|49-A/G 100066244|11-A/T   
## 0.142857143 0.131578947 0.136563877 0.057971014 0.143750000 0.148648649 0.134529148 0.144000000 0.169230769 0.135964912 0.148760331   
## 6652377|20-G/A 6661200|23-T/G 100064741|45-G/C 6658040|18-T/A 6653702|48-T/C 6652310|50-C/T 100080867|16-C/T 6665067|64-C/A 6653076|28-C/T 6653648|6-G/A 6651991|67-A/T   
## 0.131313131 0.128099174 0.125000000 0.119658120 0.112994350 0.139664804 0.145631068 0.129032258 0.107784431 0.139534884 0.127192982   
## 6661634|15-T/G 6664050|24-G/C 6652868|58-A/G 6661564|13-A/G 6650547|43-C/G 100064827|8-G/C 6650552|61-G/A 6661602|25-T/C 6661456|61-G/A 6651197|66-T/A 6652994|27-C/T   
## 0.116071429 0.129186603 0.120930233 0.106382979 0.127572016 0.125748503 0.095505618 0.117283951 0.123595506 0.092827004 0.073619632   
## 6661887|13-A/T 6661310|58-T/C 6650745|19-T/G 100017712|8-T/A 6651911|52-G/A 6650417|11-A/C 6652308|53-T/G 6661174|36-C/T 6651243|32-G/A 6662595|43-G/A 6661238|17-G/T   
## 0.144000000 0.116022099 0.107296137 0.096638655 0.092783505 0.094650206 0.078838174 0.112500000 0.088983051 0.107296137 0.104265403   
## 6653091|46-C/G 6651733|50-G/A 6661209|58-G/A 6662998|47-T/C 6650989|12-C/T 6661260|32-A/C 6664754|18-T/C 6653705|22-C/A 6651897|14-A/G 6661468|27-G/A 6662877|32-C/T   
## 0.097674419 0.094650206 0.138888889 0.111111111 0.118421053 0.089743590 0.088888889 0.096774194 0.085585586 0.081250000 0.069565217   
## 6652769|52-G/A 6657468|35-T/C 6664040|37-G/T 6654036|20-C/G 6652581|49-T/C 6663926|28-C/T 6650558|18-A/C 6650767|11-C/T 6650470|54-G/A 6652008|64-T/A 100066158|21-G/A   
## 0.061855670 0.067073171 0.081545064 0.077586207 0.064516129 0.083832335 0.057416268 0.066666667 0.081339713 0.050847458 0.079646018   
## 6661900|39-T/C 100022191|13-A/T 6665045|39-A/T 6652766|56-A/G 6652767|24-T/A 6651271|49-G/A 6661314|26-G/A 6653619|65-T/C 100116986|5-T/C 100116987|6-T/G 6653081|42-A/G   
## 0.073770492 0.096000000 0.071428571 0.059090909 0.053921569 0.062780269 0.064102564 0.051136364 0.067415730 0.066666667 0.054545455   
## 6664720|40-A/G 6652605|24-T/C 6661530|52-T/G 6653380|28-A/G 6661534|38-G/A 100100705|17-C/A 6661784|26-C/G 6653485|62-T/C 6658269|15-G/A 6657310|18-C/G 6653319|56-C/A   
## 0.058558559 0.041237113 0.044052863 0.031250000 0.040000000 0.037735849 0.061320755 0.033018868 0.031390135 0.026455026 0.043165468   
## 6662895|13-G/A 6650569|12-C/A 100018011|33-A/T 6653025|64-G/A 100020592|58-C/G 6651157|23-G/A 6652995|7-T/C 6664385|5-T/G 100080823|15-G/A 100098565|15-A/G 6662594|6-A/G   
## 0.034013605 0.044444444 0.055118110 0.024691358 0.037914692 0.019417476 0.019607843 0.017777778 0.017937220 0.036363636 0.026431718   
## 6662608|14-T/C 100111015|17-T/A 6651630|13-G/A 100015677|15-G/A 100021199|37-T/C 6651723|7-T/C 6651946|25-T/C 6652107|59-C/T 6662703|23-A/G 6656926|24-G/A 6662639|8-G/T   
## 0.028301887 0.036036036 0.020408163 0.022421525 0.007299270 0.013071895 0.024539877 0.018181818 0.022222222 0.022421525 0.023076923   
## 6644134|13-A/C 100015999|30-C/T 6651264|67-C/T 100082192|45-T/C 6658187|20-A/G 6658030|16-T/G 6664447|43-A/G 6657081|38-A/G 6657519|27-C/A 6657646|21-G/A 6658294|22-A/G   
## 0.038135593 0.039301310 0.023952096 0.017543860 0.015384615 0.012500000 0.030303030 0.004830918 0.012605042 0.035398230 0.019047619   
## 6663106|39-T/C 6665877|8-T/C 6657134|12-C/T 6662930|5-G/T 100073664|24-C/A 100093267|33-A/T 6665045|33-A/T 6653064|39-T/C 6652028|11-T/C 6652053|54-A/G 6661327|40-C/T   
## 0.016393443 0.013888889 0.026315789 0.018518519 0.010101010 0.031496063 0.032258065 0.008196721 0.013452915 0.016949153 0.029045643   
## 100020810|55-A/G 6661141|23-C/T 100018274|35-A/G 100020489|64-T/C 100021048|30-T/C 100021494|48-T/C 100015195|36-C/T 6652099|5-C/T 100019298|65-T/C 100020731|53-A/G 100065190|44-T/C   
## 0.018867925 0.012765957 0.028037383 0.015228426 0.016393443 0.011299435 0.012500000 0.013513514 0.017045455 0.021551724 0.012552301   
## 6651997|59-A/G 6658436|20-C/T 6650975|51-G/A 6657565|7-G/A 6658077|34-T/C 6652620|41-C/T 6657312|42-G/A 6657368|39-G/A 6657412|9-T/G 6657526|48-C/T 6658588|11-C/T   
## 0.005524862 0.012987013 0.013333333 0.014084507 0.005076142 0.013513514 0.008510638 0.008928571 0.016666667 0.009345794 0.009523810   
## 6662668|7-A/T 6662868|15-G/A 6663029|17-G/A 6664446|24-T/C 100086116|7-C/A 100093344|14-G/C 100098451|30-G/T 100104877|27-G/A 6656935|13-T/G 6657240|11-C/T 6657387|17-A/T   
## 0.012500000 0.017937220 0.018987342 0.020618557 0.012605042 0.006250000 0.012500000 0.012500000 0.010309278 0.014285714 0.012500000   
## 6658126|24-C/G 6662893|11-C/G 100098564|20-T/C 100108662|16-G/A 100090375|13-A/C 6654111|67-T/C 100018022|29-C/T 100018793|30-G/A 100019919|22-G/A 100020224|39-A/G 100021950|26-G/A   
## 0.012987013 0.014018692 0.004739336 0.008064516 0.025423729 0.000000000 0.018867925 0.022935780 0.019736842 0.008810573 0.025641026   
## 100065898|33-G/A 100016342|65-A/G 6653141|47-T/A 100020182|5-A/G 100017739|16-A/G 100019425|22-T/C 100019993|60-T/C 100020111|24-T/C 100022090|7-C/A 100020509|41-C/T 100019969|57-T/C   
## 0.018018018 0.029702970 0.021276596 0.009009009 0.004424779 0.008620690 0.008968610 0.010309278 0.004201681 0.009009009 0.014388489   
## 100021750|68-T/G 6650682|7-C/T 100073640|6-A/G 6658242|13-G/A 6661085|49-C/T 6650645|14-C/G 100022464|43-T/A 100065437|41-T/C 6652497|42-C/A 6653265|58-G/C 6653475|24-G/A   
## 0.004291845 0.005050505 0.008810573 0.013605442 0.000000000 0.005050505 0.012448133 0.013274336 0.008230453 0.019607843 0.004484305   
## 100021941|30-C/T 6658496|17-G/A 6661755|16-A/C 6661423|60-C/T 100015613|67-G/A 6652888|64-A/G 6657111|13-T/C 6658119|34-T/A 6661367|26-G/T 100111976|26-A/G 100016385|11-T/C   
## 0.008733624 0.000000000 0.025210084 0.034482759 0.017857143 0.008620690 0.023529412 0.008438819 0.011235955 0.007142857 0.017937220   
## 100073644|37-C/T 6650454|46-A/G 6650627|13-T/C 6651042|67-C/T 6652424|44-T/C 6653438|30-C/T 6653954|43-A/G 6657314|43-G/A 6657355|38-G/A 6657359|15-A/G 6657460|29-G/A   
## 0.010928962 0.009132420 0.011764706 0.005988024 0.012552301 0.008733624 0.010101010 0.004291845 0.020000000 0.009090909 0.005102041   
## 6657482|8-A/G 6657781|17-C/A 6661090|62-A/T 6661394|35-A/G 6662671|17-A/G 6662872|17-G/T 6663077|27-G/T 100080773|11-T/C 6650529|9-A/G 6651847|21-G/A 6652313|42-C/T   
## 0.008968610 0.009433962 0.004115226 0.000000000 0.006622517 0.009389671 0.008733624 0.008968610 0.008510638 0.008849558 0.012500000   
## 6656897|6-A/T 6657147|18-G/A 6657176|29-T/G 6657326|12-G/A 6657353|6-A/G 6657411|13-G/A 6657545|31-T/C 6657603|29-G/A 6657689|26-G/A 6657743|8-C/G 6657998|8-A/G   
## 0.015625000 0.013513514 0.008695652 0.012903226 0.013215859 0.006802721 0.013698630 0.010204082 0.012820513 0.008230453 0.017937220   
## 6658208|29-C/T 6658287|13-A/G 6658348|17-A/T 6658475|20-C/A 6658498|16-G/A 6658580|46-G/C 6661448|44-G/T 6661799|23-C/T 6662617|41-T/G 6662633|33-G/C 6662813|9-G/T   
## 0.000000000 0.008510638 0.008333333 0.009090909 0.016129032 0.008928571 0.008333333 0.012765957 0.008438819 0.004149378 0.010152284   
## 6662843|9-A/G 6662968|7-T/C 6662976|12-A/C 6664360|25-T/C 6664442|16-C/T 6664875|15-A/G 100021224|39-C/T 100073899|13-T/C 100098800|29-G/T 100100663|9-T/A 6650431|37-G/A   
## 0.008510638 0.013071895 0.008547009 0.006134969 0.009708738 0.027272727 0.020000000 0.023529412 0.010204082 0.008695652 0.005649718   
## 6656974|5-A/T 6657112|32-C/T 6657945|33-T/A 6658433|38-T/A 6664304|20-G/T 6664309|9-T/C 100116189|14-C/A 100045177|15-A/G 100073820|20-A/G 100086048|24-A/T 100098455|12-T/G   
## 0.008298755 0.017391304 0.008230453 0.004201681 0.008403361 0.017699115 0.012552301 0.009090909 0.007692308 0.012345679 0.008695652   
## 100098486|16-T/A 100098772|34-A/T 100112391|7-C/G 6651055|18-T/C 100086270|5-G/C 100112446|22-G/C 6661857|31-C/T 6658676|11-C/G 100016220|5-A/G 100021127|7-A/G 6665873|25-A/G   
## 0.005181347 0.008230453 0.016597510 0.022222222 0.018750000 0.016949153 0.008810573 0.009345794 0.009009009 0.005076142 0.014492754   
## 6654134|52-T/A 100016595|6-G/A 100021410|63-C/T 100023315|21-T/C 6653760|49-C/A 100021585|32-T/G 100023219|12-A/G 6658683|43-C/T 100064732|20-A/G 100016355|33-T/C 100019393|16-C/T   
## 0.024390244 0.007751938 0.013043478 0.008928571 0.018867925 0.008298755 0.017621145 0.018691589 0.015384615 0.008888889 0.014563107   
## 100020119|15-A/G 100022894|28-G/A 100082537|56-C/T 100016273|19-A/G 100023327|12-C/T 100015858|19-C/T 100022410|6-G/A 100017258|51-G/T 100019095|48-C/T 100020063|20-G/A 100015954|31-A/G   
## 0.000000000 0.014492754 0.009433962 0.009302326 0.006578947 0.000000000 0.000000000 0.012931034 0.004672897 0.005050505 0.006097561   
## 100021964|13-G/C 100085852|36-T/C 6651226|18-G/C 100021819|62-A/C 100022277|8-T/G 100064827|60-G/T 100018209|24-G/C 100022569|31-G/A 6653298|40-A/G 100015576|20-G/A 100016155|45-A/G   
## 0.005319149 0.012987013 0.006024096 0.004291845 0.004273504 0.004255319 0.004739336 0.008620690 0.004504505 0.005050505 0.000000000   
## 100018361|5-C/T 100018644|13-A/G 100065285|54-G/A 100066085|48-C/G 100066350|63-A/G 100082653|31-C/G 100019242|15-T/C 100065918|65-C/T 100082574|16-T/C 100112503|22-T/C 6651116|23-G/A   
## 0.006756757 0.012765957 0.009569378 0.004366812 0.009523810 0.000000000 0.005747126 0.000000000 0.000000000 0.004310345 0.000000000   
## 6664424|11-C/T 100017539|66-C/A 100019104|53-C/T 100020067|42-A/C 100020868|41-A/G 100064882|50-T/C 6658317|12-A/T 6661605|7-T/C 6664288|12-C/T 100016786|17-G/A 100020956|6-T/C   
## 0.000000000 0.009216590 0.004672897 0.004132231 0.008810573 0.009259259 0.004385965 0.000000000 0.006578947 0.012658228 0.000000000   
## 100016197|32-C/T 100017640|9-C/G 100018738|55-G/T 6651375|43-G/A 6651394|40-A/T 6657692|30-G/C 6661438|21-G/A 100015230|14-A/T 100015429|54-A/G 100016348|67-T/C 100022665|32-G/A   
## 0.000000000 0.004739336 0.009900990 0.008583691 0.004166667 0.004716981 0.008849558 0.004237288 0.008474576 0.009803922 0.012711864   
## 6650646|12-A/G 6651058|8-C/T 6652871|25-G/T 6653284|49-A/G 100020780|47-T/C 100082291|18-C/T 6657270|16-C/A 6658306|32-A/G 6663971|20-C/T 100018785|45-G/A 100019578|24-A/G   
## 0.000000000 0.004166667 0.009259259 0.008771930 0.006944444 0.000000000 0.009216590 0.005376344 0.008658009 0.005154639 0.008510638   
## 100021429|16-A/G 6651301|13-T/C 6653801|25-T/C 6662791|9-T/C 6665675|15-G/A 6665677|34-G/A 6651053|25-C/T 6651062|23-G/C 6657266|49-A/G 6661781|11-G/A 6662884|20-G/A   
## 0.013274336 0.000000000 0.000000000 0.008849558 0.004484305 0.004739336 0.006802721 0.004201681 0.008771930 0.000000000 0.005050505   
## 6661633|24-T/C 100064957|57-C/G 6650480|42-G/T 6651168|20-T/C 6651202|6-G/T 6651669|51-A/T 6651901|52-A/G 6652133|6-G/A 6652277|34-G/T 6652429|23-C/A 6652852|41-C/T   
## 0.000000000 0.005154639 0.008368201 0.009478673 0.005524862 0.004115226 0.004166667 0.007751938 0.000000000 0.000000000 0.004504505   
## 6653859|66-G/C 6657107|30-C/T 6657341|14-T/G 6657827|41-T/C 6657863|36-T/C 6657972|11-T/G 6658332|28-G/A 6661576|17-T/C 6662852|8-G/C 6665753|18-G/A 6665974|16-T/A   
## 0.000000000 0.004366812 0.000000000 0.004424779 0.012987013 0.004310345 0.000000000 0.000000000 0.000000000 0.013513514 0.005181347   
## 6665974|39-G/C 100022319|61-G/T 100066473|44-C/T 6650457|59-C/T 6650512|39-G/A 6650541|48-T/C 6650816|44-C/T 6651070|58-A/C 6651408|58-C/G 6651681|14-C/T 6651690|41-A/G   
## 0.004444444 0.005102041 0.010526316 0.000000000 0.004464286 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651751|52-A/G 6651951|29-T/C 6652480|24-G/A 6652536|25-A/G 6653136|38-A/G 6653193|66-G/C 6653366|47-T/C 6653406|51-T/C 6653654|13-A/G 6653743|54-T/C 6653795|65-G/T   
## 0.004166667 0.000000000 0.013452915 0.000000000 0.004830918 0.000000000 0.000000000 0.004385965 0.000000000 0.008403361 0.000000000   
## 6656968|20-T/C 6657138|49-C/T 6657141|6-G/A 6657590|27-T/C 6657970|16-C/G 6658518|17-G/A 6658664|15-C/A 6661383|36-A/G 6661406|53-T/C 6661709|47-A/C 6661820|30-C/T   
## 0.004739336 0.009009009 0.007751938 0.008196721 0.000000000 0.000000000 0.009433962 0.005102041 0.000000000 0.004115226 0.004366812   
## 6661892|24-C/T 6662654|9-C/A 6662663|5-A/T 6663104|29-A/G 6664717|21-A/G 6665800|40-A/C 6665804|30-T/C 100018586|15-A/G 100045576|29-G/A 100064632|55-G/A 100124805|23-T/C   
## 0.008264463 0.008298755 0.000000000 0.009433962 0.004716981 0.000000000 0.000000000 0.000000000 0.000000000 0.008928571 0.000000000   
## 6650420|21-G/A 6650787|62-C/A 6650795|22-T/C 6651016|52-G/A 6651805|15-A/G 6652208|23-C/T 6652257|65-G/T 6652383|57-G/C 6652388|11-A/G 6652788|54-A/G 6652943|57-G/A   
## 0.000000000 0.000000000 0.004310345 0.005154639 0.000000000 0.004255319 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653199|35-A/C 6653447|32-A/G 6653467|25-G/A 6653565|10-G/C 6653569|24-A/T 6654084|42-A/G 6656901|37-A/C 6656919|48-T/A 6656965|28-C/T 6657179|25-G/A 6657434|21-C/A   
## 0.000000000 0.005376344 0.004385965 0.000000000 0.004115226 0.004545455 0.000000000 0.004219409 0.005988024 0.004385965 0.004132231   
## 6657454|17-T/C 6657477|8-A/G 6657523|10-C/T 6657578|8-C/T 6657628|10-A/G 6657698|41-A/G 6657753|24-G/A 6657784|15-C/G 6657818|27-A/G 6657821|26-T/C 6657854|14-G/A   
## 0.000000000 0.004484305 0.009708738 0.004166667 0.004975124 0.008810573 0.000000000 0.004184100 0.012048193 0.012048193 0.009756098   
## 6657918|33-T/A 6657923|13-T/C 6657975|18-C/G 6658063|26-T/C 6658152|11-T/C 6658175|49-T/C 6658353|18-G/T 6658417|35-C/A 6658431|14-A/G 6658485|8-A/G 6658531|35-G/A   
## 0.004115226 0.000000000 0.005291005 0.000000000 0.008968610 0.006451613 0.007692308 0.000000000 0.004504505 0.000000000 0.005747126   
## 6661099|20-G/A 6661250|41-T/C 6661252|5-A/G 6661823|31-T/C 6661826|50-T/A 6661853|33-G/A 6662682|18-G/C 6662708|45-C/A 6662717|10-T/A 6662720|17-G/A 6663956|7-C/T   
## 0.005050505 0.004424779 0.009009009 0.006849315 0.004545455 0.004504505 0.012048193 0.004504505 0.004132231 0.006329114 0.005050505   
## 6664324|31-T/C 6664897|36-T/G 6664904|21-A/G 6665135|35-C/T 6665977|58-C/T 100062054|9-T/G 100066053|65-C/G 100073867|18-T/C 100098449|11-T/C 100102329|39-G/C 100104849|27-A/C   
## 0.000000000 0.004219409 0.004716981 0.000000000 0.006250000 0.000000000 0.000000000 0.011111111 0.004484305 0.004444444 0.008230453   
## 100118311|8-T/G 6651728|12-T/C 6651869|31-G/A 6651992|39-T/C 6652070|15-A/G 6652698|58-A/G 6653498|29-C/G 6656984|39-A/T 6656988|16-A/T 6657054|5-A/G 6657255|43-C/T   
## 0.000000000 0.009009009 0.000000000 0.000000000 0.009090909 0.004651163 0.004784689 0.004424779 0.007812500 0.009009009 0.009345794   
## 6657257|18-T/G 6657264|21-A/C 6657486|25-A/G 6657731|27-T/C 6657762|30-T/G 6658275|5-T/C 6658351|8-T/A 6658356|40-T/A 6662713|37-C/T 6662735|7-T/C 6662802|35-T/C   
## 0.005102041 0.004237288 0.000000000 0.008196721 0.004115226 0.005617978 0.008403361 0.000000000 0.010928962 0.006535948 0.000000000   
## 6664285|14-G/T 6664286|5-A/G 6664411|22-G/A 100116189|12-G/A 100020566|50-G/A 100073416|9-G/C 100073555|13-T/C 100073946|24-C/A 100082262|34-C/T 100082279|42-T/G 100093533|7-G/T   
## 0.005376344 0.009009009 0.000000000 0.012903226 0.008230453 0.004424779 0.000000000 0.005050505 0.004424779 0.000000000 0.008230453   
## 100093556|10-T/A 100093571|9-A/T 100093658|5-T/C 100102354|38-T/G 100102368|8-T/C 100108745|39-G/C 100124806|24-A/G 6652013|36-G/A 100019613|42-A/G 6653942|18-C/G 100021748|48-G/A   
## 0.004132231 0.004115226 0.005617978 0.004273504 0.004629630 0.004444444 0.000000000 0.000000000 0.004545455 0.000000000 0.014084507   
## 100022307|64-C/T 6661279|61-A/G 100016043|65-A/G 100021551|26-C/G 6651509|9-T/C 100015681|31-G/A 100022444|19-C/T 100065978|51-A/C 100015971|32-G/A 100018341|11-C/T 100018791|30-T/A   
## 0.004524887 0.004524887 0.009900990 0.000000000 0.000000000 0.004310345 0.010526316 0.000000000 0.008474576 0.004761905 0.004587156   
## 100021444|27-G/T 6651402|31-T/C 6652371|36-A/G 100016955|21-T/C 100017267|60-T/C 100017271|28-T/A 100017633|14-G/T 100018216|18-C/T 100018585|65-G/A 100018930|7-A/G 100019458|6-T/C   
## 0.004366812 0.000000000 0.000000000 0.008928571 0.000000000 0.008438819 0.010752688 0.000000000 0.000000000 0.005076142 0.000000000   
## 100020508|64-T/C 100021998|13-T/C 100065288|30-C/T 6657675|5-C/T 100018006|38-A/G 100018907|18-T/C 100018908|67-C/T 100019522|42-C/T 100021552|23-G/T 100021990|59-T/C 100066166|11-T/A   
## 0.015228426 0.011764706 0.000000000 0.006756757 0.009661836 0.011111111 0.005988024 0.008333333 0.004310345 0.004694836 0.004184100   
## 6651977|40-G/C 6661494|35-T/C 6661600|20-T/C 100023675|41-A/G 100064707|39-C/T 100066332|9-G/A 100111975|14-G/C 100015765|23-G/A 100017875|29-A/G 100019456|25-T/C 100019962|30-A/G   
## 0.000000000 0.000000000 0.000000000 0.008810573 0.000000000 0.004219409 0.018750000 0.004854369 0.004716981 0.012269939 0.000000000   
## 100020185|57-C/A 100020870|33-C/G 100021266|13-G/A 6651172|33-A/G 100015703|20-A/G 6653988|60-A/T 100018373|30-C/T 100020483|16-G/A 100022388|34-C/T 100022854|43-G/T 100023104|56-C/T   
## 0.007092199 0.009132420 0.006802721 0.004694836 0.007692308 0.004347826 0.004366812 0.008064516 0.008849558 0.004115226 0.000000000   
## 100023409|22-T/C 100086339|36-T/G 6651925|23-G/C 100120327|18-G/A 100120327|6-G/A 100016290|59-A/C 100020594|60-T/A 100022242|47-G/T 100022320|10-T/C 100022502|23-T/A 6651745|39-T/C   
## 0.008620690 0.004219409 0.000000000 0.000000000 0.015503876 0.006289308 0.004166667 0.000000000 0.004366812 0.004132231 0.008196721   
## 6661848|25-T/G 100016236|36-G/T 100016349|39-A/G 100016910|15-T/A 100020122|19-C/G 100021092|17-T/C 100022165|12-A/G 100023470|59-G/A 6661692|56-G/A 100016458|65-C/G 100018964|48-T/G   
## 0.004608295 0.011111111 0.008810573 0.017241379 0.004739336 0.013605442 0.004405286 0.008810573 0.000000000 0.000000000 0.000000000   
## 100021554|25-A/G 100023185|19-T/G 6650701|18-A/G 6652394|37-T/C 6653506|13-T/A 6664058|35-C/T 100016479|45-A/T 100017508|19-C/G 100018962|16-T/C 100022682|11-A/T 100066335|57-A/T   
## 0.014492754 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100082668|8-A/T 6658494|15-A/G 100015625|54-A/G 100016249|62-A/C 100016393|18-A/T 100016660|55-C/T 100017075|58-G/A 100017124|8-A/G 100017541|11-T/A 100018026|11-T/C 100019630|31-T/C   
## 0.004347826 0.000000000 0.000000000 0.008583691 0.004405286 0.000000000 0.000000000 0.008968610 0.004184100 0.004484305 0.000000000   
## 100019855|44-T/C 100019873|44-G/A 100019915|44-G/T 100022465|65-C/G 100022648|51-G/A 100044512|21-C/T 6650696|57-G/A 6653452|20-G/A 100015340|55-T/G 100017500|23-A/C 100020588|47-C/A   
## 0.004184100 0.000000000 0.000000000 0.000000000 0.000000000 0.005128205 0.000000000 0.000000000 0.004444444 0.004444444 0.000000000   
## 100022422|51-G/T 100022425|5-T/C 100023388|34-C/A 100023484|57-G/A 100023525|29-A/G 100064648|32-T/C 100065646|5-C/A 100073396|12-C/T 100073814|33-T/C 6650655|58-G/A 6651105|51-A/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.004716981 0.004201681 0.004444444 0.000000000 0.004444444 0.000000000 0.000000000   
## 6651192|9-A/G 6652274|53-T/C 6652608|18-G/C 6652649|33-C/G 6653266|5-T/A 6661462|57-A/G 100016352|41-C/T 100016515|37-T/A 100016629|18-T/C 100017186|6-T/C 100018441|46-A/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.011111111 0.011627907 0.000000000   
## 100019819|59-T/G 100021768|16-G/T 100022658|14-G/A 100022749|22-C/T 100023505|21-C/G 100064613|60-T/C 6650443|20-C/T 6650647|27-A/C 6650672|16-T/C 6650875|47-G/A 6652044|30-A/G   
## 0.004291845 0.006622517 0.004878049 0.000000000 0.004149378 0.004484305 0.000000000 0.000000000 0.000000000 0.009478673 0.000000000   
## 6652814|39-C/T 6653050|59-G/T 6653245|23-A/G 6653382|37-T/C 100015237|28-T/A 100016165|7-G/A 100017157|49-G/A 100017486|22-T/G 100019175|10-C/G 100019665|26-G/A 100020841|64-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004694836 0.000000000 0.004291845 0.000000000 0.000000000 0.010152284   
## 100120329|23-A/G 6650705|36-C/T 6651136|7-G/C 6651295|17-C/T 6651888|7-A/G 6652092|41-A/G 6652390|29-T/C 6653344|40-A/G 100017290|62-G/T 100017981|57-C/T 100018180|55-T/C   
## 0.008888889 0.000000000 0.000000000 0.000000000 0.000000000 0.004405286 0.000000000 0.000000000 0.000000000 0.000000000 0.011976048   
## 100018460|39-T/G 100018667|65-G/A 100019573|61-A/C 100020403|29-G/T 100023540|56-T/G 100065318|8-A/G 100066600|5-T/C 100066622|14-T/C 100086014|36-T/C 100098840|27-G/A 6650711|25-C/A   
## 0.008368201 0.005102041 0.000000000 0.010204082 0.000000000 0.000000000 0.000000000 0.004716981 0.012987013 0.006250000 0.000000000   
## 6651249|51-G/C 6653001|20-G/A 6653114|14-T/A 6653811|17-T/C 6661187|29-A/C 100015694|44-A/T 100016554|8-A/G 100017386|12-G/A 100017844|43-G/A 100020562|42-C/G 100021051|67-G/T   
## 0.000000000 0.000000000 0.004132231 0.000000000 0.000000000 0.004132231 0.013452915 0.006451613 0.012875536 0.000000000 0.004291845   
## 100065266|5-T/C 6650693|44-C/T 6651276|7-A/G 6651724|68-A/G 6652175|66-T/C 6652356|17-A/G 6653008|30-C/G 6653473|47-C/T 6653869|47-T/G 6654016|14-A/G 6664729|22-C/T   
## 0.000000000 0.000000000 0.005076142 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.009174312   
## 6661750|65-G/A 100016089|30-C/T 100017364|16-A/G 100017568|38-A/G 100017636|20-G/A 100018230|62-T/C 100020647|25-G/A 100023048|6-T/C 100023313|65-G/T 100023842|66-T/C 6650662|57-T/A   
## 0.000000000 0.000000000 0.000000000 0.009661836 0.005050505 0.000000000 0.008771930 0.000000000 0.009259259 0.000000000 0.000000000   
## 6650857|56-T/C 6650871|15-T/G 6652354|41-T/G 6652712|18-A/G 6652897|32-G/A 6653119|17-A/G 6653277|45-G/C 6653413|34-C/T 6653686|19-A/G 6653906|8-T/C 6656936|12-G/A   
## 0.000000000 0.000000000 0.004219409 0.000000000 0.004237288 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6658216|16-T/C 6661637|61-A/T 6664071|59-C/T 6652420|13-T/G 100017654|43-G/C 100021742|38-C/A 100044665|10-T/G 100064985|48-C/T 100065246|12-A/G 100066557|28-C/T 100082397|38-C/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.004115226 0.000000000 0.008403361 0.000000000 0.004405286 0.000000000 0.000000000   
## 6650620|8-A/G 6650692|56-G/A 6650978|6-G/A 6651221|15-T/C 6651235|33-A/G 6651703|33-T/C 6651891|44-T/C 6652170|11-A/G 6652463|46-A/C 6652496|43-C/T 6653226|65-A/G   
## 0.000000000 0.008547009 0.007751938 0.000000000 0.000000000 0.000000000 0.000000000 0.012121212 0.005025126 0.000000000 0.000000000   
## 6653778|39-T/A 6654074|20-G/T 6658572|16-A/G 6661139|49-C/A 6661309|12-G/A 6661345|40-C/G 6662659|12-A/C 100120331|53-T/G 100020242|53-A/G 100021807|31-T/C 100065925|36-C/T   
## 0.004444444 0.000000000 0.004424779 0.000000000 0.000000000 0.004201681 0.004273504 0.008298755 0.000000000 0.000000000 0.000000000   
## 100066073|6-T/C 100102122|31-C/A 6650428|57-G/T 6652370|62-G/A 6653373|60-G/T 6653417|48-C/G 6653777|46-G/T 6653792|53-C/A 6654058|18-T/C 6661147|26-G/C 6661226|53-C/T   
## 0.011627907 0.004115226 0.000000000 0.000000000 0.000000000 0.004366812 0.000000000 0.004184100 0.005555556 0.000000000 0.000000000   
## 6661658|19-C/T 6661670|43-T/C 6663906|23-C/T 6664040|9-G/T 100017806|36-A/G 100019553|65-G/A 100020150|48-T/C 100022824|15-T/C 100045255|15-T/C 100064683|52-A/G 100065044|38-G/T   
## 0.000000000 0.000000000 0.000000000 0.005076142 0.005102041 0.005102041 0.000000000 0.005747126 0.000000000 0.004166667 0.000000000   
## 100065331|11-A/G 100082376|10-G/T 100114017|32-T/C 6650513|52-C/T 6650793|26-A/C 6650805|11-A/G 6650968|18-A/T 6651099|28-A/G 6651150|45-T/C 6651383|67-T/G 6651541|66-T/C   
## 0.000000000 0.000000000 0.000000000 0.005917160 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651588|49-C/T 6651711|11-A/G 6651715|59-C/G 6651731|68-G/T 6652027|41-G/A 6652109|27-A/G 6652130|35-T/C 6652152|19-T/G 6652278|43-G/C 6652658|29-A/T 6652840|16-G/A   
## 0.009009009 0.000000000 0.000000000 0.000000000 0.004166667 0.012048193 0.000000000 0.000000000 0.004115226 0.000000000 0.008064516   
## 6652867|64-C/T 6652883|26-G/C 6653149|58-C/T 6653187|24-G/T 6653229|41-A/G 6653591|11-G/C 6653796|8-T/C 6653829|21-C/A 6653872|47-G/T 6653967|40-G/A 6657086|36-C/A   
## 0.000000000 0.000000000 0.006250000 0.000000000 0.000000000 0.000000000 0.004629630 0.000000000 0.000000000 0.000000000 0.000000000   
## 6657671|40-C/T 6657902|21-T/C 6661102|10-A/G 6661477|67-A/G 6661483|14-G/C 6661530|26-C/G 6661560|54-A/G 6661564|45-T/A 6662672|28-C/A 6664046|51-T/C 6664055|23-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.006250000 0.004716981 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100120332|58-C/A 100120330|33-G/T 100015220|59-C/A 100016151|11-T/C 100016562|12-G/A 100016798|34-C/T 100021467|36-G/A 100065538|21-A/T 100065912|28-G/A 100098480|21-A/C 6650742|33-G/A   
## 0.008298755 0.008333333 0.000000000 0.004484305 0.012903226 0.000000000 0.000000000 0.004784689 0.014492754 0.000000000 0.004504505   
## 6650889|38-G/T 6651263|53-A/C 6651318|7-C/T 6651340|27-C/T 6651392|24-C/T 6651403|11-C/A 6651475|6-A/G 6651645|50-G/A 6651662|13-T/A 6651726|49-G/A 6651740|27-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.004132231 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651858|23-A/G 6651880|60-C/T 6651889|58-T/C 6651919|45-G/T 6652026|29-G/T 6652151|12-T/C 6652259|45-G/T 6652382|40-G/A 6652492|21-C/T 6652504|25-A/G 6652541|50-A/G   
## 0.004444444 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.008733624 0.000000000 0.000000000 0.000000000   
## 6652568|29-G/T 6652593|5-G/T 6652667|36-T/C 6652794|64-C/T 6652856|20-T/A 6653235|13-T/G 6653395|26-G/A 6653420|50-G/A 6653458|58-C/T 6653463|23-A/G 6653479|25-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.008888889 0.000000000   
## 6653599|33-C/T 6653745|15-T/C 6653871|33-G/A 6653881|45-G/A 6657644|31-G/T 6657994|16-G/A 6658139|28-G/A 6658379|30-A/G 6658529|38-A/G 6658559|22-T/G 6658652|28-T/C   
## 0.000000000 0.005747126 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004975124 0.004830918 0.000000000 0.004830918   
## 6658660|28-C/G 6661093|40-C/A 6661130|16-T/C 6661369|40-T/C 6661393|35-C/A 6661665|50-T/C 6661672|7-G/A 6661712|36-C/T 6663057|27-A/C 6663982|51-T/G 6665517|21-A/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.004484305 0.000000000 0.000000000 0.006250000 0.004115226 0.000000000 0.009569378   
## 6665665|51-T/C 6665807|65-G/A 100104824|10-C/A 100020394|66-C/G 100020441|43-A/C 100021095|9-T/C 100021324|61-A/G 100044982|27-T/C 6633176|7-T/C 6650394|45-T/C 6650524|64-C/A   
## 0.004385965 0.000000000 0.009950249 0.000000000 0.004761905 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6650526|41-A/C 6650616|12-C/T 6650617|39-T/G 6650695|29-G/A 6650768|33-C/T 6650776|41-A/G 6650824|6-C/G 6650856|61-G/C 6650931|6-C/T 6650932|50-A/G 6650935|64-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.004166667 0.000000000 0.000000000 0.004310345 0.000000000 0.004201681 0.000000000   
## 6650950|61-A/C 6650971|13-G/A 6651076|54-T/C 6651094|7-C/T 6651112|44-A/C 6651140|51-A/G 6651141|28-C/T 6651166|8-G/A 6651232|36-T/A 6651234|42-A/T 6651248|33-A/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651256|30-A/G 6651296|34-G/A 6651362|29-A/G 6651505|25-A/G 6651536|18-C/T 6651549|18-T/C 6651584|29-A/G 6651585|28-G/A 6651603|27-G/A 6651650|53-C/T 6651682|41-G/A   
## 0.004975124 0.000000000 0.000000000 0.014492754 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004672897 0.000000000   
## 6651722|21-T/C 6651790|34-A/C 6651836|41-C/A 6651920|32-T/A 6651945|47-T/C 6651948|51-G/A 6651949|50-A/C 6651978|13-T/C 6651988|28-A/T 6651995|36-G/C 6651996|46-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004651163 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652021|23-A/T 6652050|59-T/C 6652102|5-C/T 6652139|9-C/G 6652157|32-T/A 6652164|29-T/C 6652198|12-T/A 6652209|23-C/G 6652232|10-G/A 6652236|58-T/C 6652248|19-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004115226 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652256|38-A/G 6652399|58-G/T 6652408|36-G/T 6652455|7-A/G 6652563|7-G/C 6652666|14-C/T 6652708|30-T/C 6652718|43-C/A 6652723|11-A/G 6652744|49-T/G 6652761|57-T/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652809|41-A/G 6652820|37-G/T 6652865|19-C/G 6653005|35-T/C 6653010|64-G/C 6653038|53-G/C 6653130|47-A/T 6653175|37-A/G 6653237|34-C/T 6653376|49-A/C 6653396|18-A/G   
## 0.004405286 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004424779 0.000000000 0.000000000   
## 6653462|51-G/A 6653499|18-A/G 6653523|14-A/C 6653530|62-T/C 6653604|19-T/A 6653643|33-G/C 6653655|16-T/C 6653725|23-C/A 6653838|44-C/T 6653994|51-G/A 6656884|31-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004329004 0.000000000 0.000000000 0.006097561   
## 6656889|19-A/G 6657085|18-T/G 6657130|23-G/T 6657217|6-G/T 6657267|27-G/T 6657331|17-A/G 6657391|26-A/G 6657478|16-A/C 6657485|17-C/T 6657548|20-A/G 6657600|33-G/A   
## 0.004651163 0.005102041 0.008620690 0.000000000 0.004366812 0.000000000 0.007142857 0.000000000 0.007874016 0.000000000 0.004504505   
## 6657637|34-A/C 6657667|22-A/G 6657873|49-G/A 6658002|34-T/C 6658172|30-C/A 6658300|7-T/A 6658375|19-C/G 6658441|13-C/T 6658569|13-G/A 6661094|36-A/G 6661297|9-T/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.008264463 0.000000000 0.004739336 0.004878049 0.006802721 0.000000000 0.000000000   
## 6661311|33-T/C 6661392|20-A/G 6661396|55-T/C 6661401|35-G/A 6661459|27-G/A 6661496|33-C/G 6661598|62-A/G 6661609|59-A/C 6661636|18-T/A 6661653|9-G/A 6661756|25-G/A   
## 0.000000000 0.000000000 0.005988024 0.005747126 0.000000000 0.000000000 0.008438819 0.006289308 0.004273504 0.000000000 0.000000000   
## 6661788|59-G/T 6661804|5-T/A 6661860|33-C/T 6662701|6-A/G 6662705|5-C/G 6662826|20-C/T 6663036|30-T/G 6663052|30-A/G 6663927|13-G/A 6664053|24-C/T 6664315|17-A/G   
## 0.000000000 0.000000000 0.000000000 0.004405286 0.000000000 0.000000000 0.000000000 0.004975124 0.000000000 0.004132231 0.006622517   
## 6664393|35-G/A 100101004|14-G/C 6664748|30-C/A 6665122|15-A/T 6665280|39-G/A 6665349|39-T/A 100109477|21-T/C 6665749|9-T/C 6665804|12-G/A 6665805|15-G/A 6665809|11-A/G   
## 0.005747126 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004424779 0.000000000 0.000000000 0.000000000   
## 6665975|52-G/A 6666169|13-T/A 6666355|23-A/G 100123948|55-T/C 100022390|44-G/A 100023236|15-G/A 100073694|7-G/A 100082381|22-C/A 100098535|7-C/G 100098787|33-A/G 100123797|15-G/T   
## 0.000000000 0.004115226 0.000000000 0.000000000 0.004830918 0.000000000 0.004694836 0.000000000 0.000000000 0.000000000 0.000000000   
## 6632181|18-G/A 6650384|58-A/G 6650392|28-C/A 6650405|15-T/C 6650425|36-A/T 6650440|25-T/C 6650441|46-C/T 6650503|7-C/T 6650511|35-A/T 6650582|52-A/C 6650601|22-C/T   
## 0.013513514 0.004651163 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6650694|13-A/C 6650707|5-A/G 6650750|63-G/A 6650751|7-T/G 6650881|41-T/C 6650887|8-T/G 6650895|17-A/G 6650942|29-A/G 6651068|27-G/A 6651106|54-A/T 6651126|7-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651199|46-C/G 6651277|12-C/T 6651309|58-A/G 6651440|6-A/G 6651559|24-C/T 6651568|46-G/C 6651596|5-C/T 6651608|37-G/A 6651626|23-G/C 6651670|12-A/G 6651678|31-T/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004115226   
## 6651702|11-C/T 6651729|48-A/G 6651775|9-A/G 6651799|50-C/G 6651833|60-C/T 6651834|42-T/G 6651856|61-G/A 6651902|48-A/T 6651916|32-C/T 6651940|40-C/T 6651955|38-C/A   
## 0.000000000 0.004926108 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004219409   
## 6652103|6-G/A 6652221|13-A/G 6652233|30-C/T 6652271|50-T/C 6652312|29-A/G 6652323|41-T/C 6652348|30-G/A 6652387|29-A/C 6652570|42-C/A 6652579|68-G/T 6652611|59-C/A   
## 0.000000000 0.000000000 0.000000000 0.004629630 0.000000000 0.000000000 0.000000000 0.000000000 0.004115226 0.000000000 0.000000000   
## 6652679|46-G/C 6652770|46-T/C 6652916|41-A/G 6652924|5-G/T 6653139|25-C/T 6653290|15-T/C 6653405|19-T/G 6653547|59-T/C 6653608|25-C/G 6653635|5-T/C 6653678|35-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004694836 0.000000000 0.000000000 0.000000000   
## 6653689|26-T/A 6653786|26-A/G 6653788|50-G/A 6653837|14-C/T 6653866|26-A/T 6653923|19-A/T 6653998|66-G/A 6654062|37-C/T 6654076|43-A/C 6656943|6-A/T 6656950|8-C/G   
## 0.005813953 0.000000000 0.004115226 0.015151515 0.000000000 0.004115226 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6657301|15-A/G 6657373|32-C/A 6657396|21-C/T 6657408|41-T/C 6657466|14-C/G 6657470|5-C/T 6657514|43-G/A 6657532|34-T/C 6657551|9-T/C 6657596|44-G/A 6657604|9-T/G   
## 0.000000000 0.004237288 0.005128205 0.000000000 0.000000000 0.013513514 0.000000000 0.005076142 0.004424779 0.004830918 0.000000000   
## 6657613|10-A/C 6657630|52-C/T 6657681|17-C/T 6657715|15-C/T 6657723|9-A/T 6657726|41-A/G 6657729|7-G/A 6657752|22-T/A 6657881|18-C/G 6658064|41-T/A 6658065|28-A/C   
## 0.004237288 0.000000000 0.007874016 0.000000000 0.004115226 0.000000000 0.004694836 0.004132231 0.000000000 0.000000000 0.000000000   
## 6658111|29-A/T 6658148|11-T/C 6658186|19-A/G 6658226|42-C/T 6658296|10-A/T 6658347|20-C/G 6658374|29-C/T 6658438|42-C/G 6658501|21-A/C 6658566|40-C/T 6661096|38-A/G   
## 0.000000000 0.000000000 0.000000000 0.004166667 0.000000000 0.004310345 0.000000000 0.004464286 0.004237288 0.004149378 0.000000000   
## 6661098|8-C/T 6661155|52-A/G 6661165|8-T/C 6661251|38-A/G 6661269|21-G/A 6661341|8-C/T 6661391|21-C/A 6661466|12-C/T 6661555|18-G/C 6661659|40-C/T 6661684|52-G/A   
## 0.000000000 0.004166667 0.004629630 0.004830918 0.000000000 0.004166667 0.000000000 0.006578947 0.000000000 0.000000000 0.000000000   
## 6661698|59-T/A 6661775|7-A/G 6661797|49-G/A 6662590|20-A/G 6662615|6-C/T 6662790|12-G/C 6662818|19-G/A 6662832|11-A/G 6662835|7-G/C 6662944|22-G/C 6662946|24-G/A   
## 0.004444444 0.000000000 0.000000000 0.000000000 0.000000000 0.008438819 0.004878049 0.000000000 0.004901961 0.000000000 0.000000000   
## 6662996|36-G/A 6663047|41-G/A 6663054|17-C/T 6663939|28-A/T 6663975|44-T/C 6663987|39-C/G 6664296|7-C/G 6664312|54-A/T 6664428|37-G/A 100082074|52-T/C 6664722|41-T/G   
## 0.000000000 0.004166667 0.007874016 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.005649718 0.010309278 0.000000000   
## 6665235|64-T/C 6665278|5-A/G 6665282|36-G/A 6665346|17-A/G 6665662|22-T/C 6665663|28-T/A 6665849|25-C/T 6665877|33-T/C 6665879|38-A/T 6666358|65-C/T 100016475|46-G/A   
## 0.000000000 0.000000000 0.009433962 0.000000000 0.004310345 0.004219409 0.006802721 0.004444444 0.004347826 0.000000000 0.000000000   
## 100016905|48-C/A 100018192|15-C/A 100018375|55-C/G 100021981|25-T/A 100045028|11-A/G 100065468|15-G/A 100065569|37-C/A 100073412|16-T/C 100073701|13-G/T 100074011|18-G/C 100082459|38-C/A   
## 0.000000000 0.000000000 0.004219409 0.000000000 0.006060606 0.000000000 0.000000000 0.015384615 0.004201681 0.006024096 0.004219409   
## 100086150|10-G/T 100086229|17-T/C 100086237|9-C/A 100091190|32-A/G 100091207|45-C/G 100091251|13-T/C 100096444|12-A/C 100098472|22-C/G 100103647|6-C/A 100107103|17-C/T 6650387|53-A/G   
## 0.004219409 0.000000000 0.000000000 0.000000000 0.000000000 0.011764706 0.004273504 0.004149378 0.013824885 0.000000000 0.004310345   
## 6650481|61-G/A 6650788|22-T/C 6651332|37-A/C 6651818|50-T/C 6651863|32-C/T 6652372|10-T/C 6652511|31-G/A 6652754|21-A/G 6652755|9-G/A 6653571|19-A/G 6653574|37-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004366812 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653585|24-C/T 6657101|27-G/A 6657124|22-T/C 6657595|21-A/G 6657640|37-T/G 6657747|20-T/A 6657809|8-A/C 6657847|15-A/G 6657859|39-G/C 6657980|25-A/G 6658003|48-T/C   
## 0.000000000 0.000000000 0.004310345 0.004716981 0.000000000 0.005319149 0.004444444 0.000000000 0.004444444 0.014492754 0.000000000   
## 6658141|5-G/C 6658173|38-T/C 6658437|16-G/A 6658509|5-T/C 6658625|7-G/C 6661101|21-T/C 6661509|18-T/G 6661745|36-G/A 6661802|6-G/A 6661814|14-T/G 6662656|29-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004464286 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6662837|7-T/A 6662873|7-G/C 6662947|5-G/A 6663032|15-G/A 6664269|17-T/G 6664285|27-A/C 6664757|14-T/C 6664912|6-T/C 6665124|27-C/T 6665664|30-A/C 6665874|13-A/G   
## 0.000000000 0.000000000 0.008547009 0.008968610 0.010471204 0.000000000 0.000000000 0.011627907 0.006134969 0.004273504 0.004255319   
## 6665876|47-A/G 6666225|7-A/G 100065638|51-G/C 100065980|45-T/C 100073421|25-T/C 100073630|15-C/G 100073757|34-G/C 100073948|30-G/A 100074014|19-T/A 100074068|17-A/G 100082248|28-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004587156 0.004366812 0.000000000 0.000000000   
## 100086042|5-C/T 100093665|8-T/G 100098602|36-T/A 100098836|24-A/C 100102147|13-C/T 100121015|18-T/C 100066223|13-G/A 100106210|14-T/G 6665285|9-C/T 6661710|31-T/C 6653668|61-T/A   
## 0.013513514 0.004273504 0.008333333 0.004366812 0.004878049 0.000000000 0.000000000 0.013698630 0.008849558 0.000000000 0.000000000   
## 100024870|39-A/C 6663929|41-A/C 100019092|30-T/A 6661298|58-T/C 100016534|66-G/A 100023056|37-G/A 100082643|25-G/C 100064775|20-G/A 100023265|24-C/A 6651137|52-T/C 6652727|6-C/A   
## 0.000000000 0.000000000 0.000000000 0.005464481 0.000000000 0.011299435 0.013986014 0.000000000 0.000000000 0.000000000 0.000000000   
## 100021017|32-G/T 100073776|11-G/A 100015600|63-A/T 6665051|27-A/T 100019246|34-T/A 6651056|34-C/T 6661829|9-C/T 6665126|22-A/C 100016268|6-T/C 100020350|21-A/G 100023328|20-T/C   
## 0.004807692 0.000000000 0.000000000 0.000000000 0.000000000 0.004424779 0.000000000 0.009433962 0.011627907 0.004716981 0.004739336   
## 100066210|28-C/T 6661110|21-T/A 100018023|63-A/G 100020236|59-G/A 100021188|32-G/C 100021960|39-C/T 100023459|46-A/G 100017280|64-T/G 100018247|39-T/A 100021898|39-C/T 100022093|45-A/T   
## 0.000000000 0.004291845 0.000000000 0.004405286 0.000000000 0.000000000 0.009132420 0.008583691 0.004444444 0.010000000 0.004255319   
## 100023129|9-T/A 100023441|20-A/G 100065302|16-G/A 100066548|17-C/T 6650550|11-T/G 100016077|58-A/G 100018469|20-T/G 100019543|16-G/T 100020860|10-A/C 100022172|17-T/G 100045257|30-G/T   
## 0.004347826 0.007692308 0.000000000 0.000000000 0.000000000 0.004651163 0.000000000 0.000000000 0.000000000 0.000000000 0.004166667   
## 6650546|47-C/A 6653399|26-T/A 100015390|53-T/G 100017298|53-C/T 100017444|58-C/T 100017989|5-T/C 100018126|55-A/G 100018257|27-G/T 100018350|18-A/T 100020244|19-T/A 100021605|34-G/T   
## 0.000000000 0.000000000 0.004149378 0.004672897 0.000000000 0.000000000 0.000000000 0.000000000 0.004405286 0.000000000 0.004219409   
## 100023076|20-A/T 100023357|49-A/T 6653628|59-A/G 6661821|17-T/A 100015255|25-C/T 100015707|14-A/T 100015710|46-C/T 100016017|19-C/T 100017899|6-A/G 100019473|54-C/T 100020145|63-C/G   
## 0.000000000 0.000000000 0.000000000 0.009009009 0.000000000 0.004237288 0.005405405 0.000000000 0.004405286 0.008620690 0.000000000   
## 100021743|44-C/T 100022776|55-C/A 100023242|39-G/C 100082188|29-T/C 100015628|14-G/A 100020893|36-A/G 100021540|61-G/A 100021665|36-G/A 100022938|66-G/C 100023291|60-T/A 6661242|40-T/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6661353|60-C/T 100016201|10-C/T 100016537|37-T/G 100016842|18-C/T 100016876|65-C/T 100016987|65-G/A 100017504|59-C/A 100019821|57-T/A 100020901|34-T/C 100021671|8-G/A 100021969|10-T/C   
## 0.000000000 0.009708738 0.000000000 0.000000000 0.000000000 0.000000000 0.004166667 0.000000000 0.000000000 0.000000000 0.004366812   
## 100022199|66-G/A 100022545|35-T/C 100022573|13-G/C 100022831|52-G/A 100066558|7-C/T 100016263|30-C/G 100016306|10-A/T 100017198|10-T/A 100017275|13-A/G 100017509|15-C/G 100018032|68-T/C   
## 0.000000000 0.000000000 0.000000000 0.005154639 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004716981   
## 100018336|6-C/T 100018672|56-G/T 100019100|44-G/T 100019286|14-C/G 100019912|15-C/T 100020907|14-C/T 100021161|47-T/A 100021810|7-T/C 100023367|18-C/T 100064740|15-A/T 6653264|41-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6663072|37-T/A 100016098|7-T/C 100016143|59-T/C 100016740|12-A/C 100016777|38-T/C 100018407|47-C/A 100018609|48-C/T 100019034|62-G/A 100019293|6-G/T 100019468|41-G/A 100019644|45-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.008771930   
## 100019745|64-C/T 100021138|40-C/T 100022777|45-C/T 100066874|50-C/A 100091157|27-T/G 6652941|42-T/C 6653902|40-C/T 6664728|12-C/T 100015633|60-A/G 100016193|8-T/A 100017485|19-T/C   
## 0.009049774 0.000000000 0.000000000 0.000000000 0.000000000 0.004273504 0.004149378 0.006578947 0.000000000 0.000000000 0.000000000   
## 100018162|27-C/T 100019061|21-G/C 100019334|15-C/T 100019756|22-T/C 100020056|55-G/T 100020924|20-C/T 100022009|9-G/A 100022323|36-A/G 100022703|5-T/C 100023049|42-G/A 100023218|64-G/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004273504   
## 100023269|66-A/G 100024832|25-T/C 100044738|8-C/T 100065081|38-C/T 100065706|32-G/A 100096952|53-C/A 6651239|56-C/A 6651495|32-A/G 6652638|14-C/A 6653296|13-A/C 6661158|36-C/T   
## 0.004672897 0.000000000 0.004166667 0.000000000 0.004237288 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.006250000   
## 100015381|11-T/A 100015413|40-A/T 100015882|61-G/T 100017512|41-A/C 100018395|5-T/C 100019423|68-C/G 100019434|60-G/T 100019704|32-C/G 100019785|27-T/C 100021066|30-G/A 100021425|47-C/A   
## 0.000000000 0.000000000 0.005102041 0.000000000 0.005617978 0.004201681 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100021475|63-A/T 100021915|65-G/A 100022373|12-A/G 100022606|28-T/C 100022910|49-A/G 100025041|57-G/A 100044554|19-G/A 100064948|49-T/A 100065362|20-C/T 6650752|20-T/A 6652176|15-T/C   
## 0.000000000 0.005102041 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653696|11-C/T 6662909|25-T/C 100015291|39-T/G 100016129|26-G/A 100017225|65-T/C 100017536|38-A/T 100017676|8-G/A 100019216|7-C/G 100019420|52-C/G 100019494|63-G/T 100020318|21-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004166667 0.000000000   
## 100020532|11-T/G 100020604|29-A/G 100020745|51-A/C 100021499|21-G/C 100021838|13-T/A 100021978|37-T/C 100022031|7-T/A 100022223|45-A/G 100023499|68-G/T 100023507|21-G/A 6634782|49-G/A   
## 0.000000000 0.000000000 0.004310345 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004484305   
## 6650656|12-T/G 6652475|14-A/T 6661333|17-C/T 100015448|67-A/T 100015469|19-T/A 100015537|12-C/T 100015992|7-C/A 100016029|18-C/T 100016274|21-C/T 100016854|18-G/T 100017144|48-G/A   
## 0.000000000 0.008474576 0.000000000 0.004385965 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100017489|57-G/A 100017909|16-T/C 100018611|43-C/A 100018927|63-G/C 100019035|27-T/A 100019236|16-C/T 100020671|26-T/C 100021001|60-T/A 100021318|46-C/G 100021549|61-A/C 100021863|20-C/T   
## 0.000000000 0.000000000 0.004975124 0.000000000 0.000000000 0.004854369 0.000000000 0.004166667 0.000000000 0.000000000 0.004329004   
## 100023205|16-G/T 100044711|34-G/A 100064599|63-A/C 100065680|37-G/A 100118396|21-A/G 6651534|52-G/A 6651570|59-C/T 6652200|26-G/A 6652872|49-G/A 6654031|17-C/T 6661376|52-G/A   
## 0.000000000 0.004739336 0.000000000 0.000000000 0.009433962 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.005154639   
## 6662917|14-G/T 6666226|12-T/G 100015950|5-A/G 100016109|31-A/T 100016805|54-A/G 100016861|15-T/C 100017893|45-T/C 100018244|41-A/T 100018636|16-G/A 100018890|25-T/C 100018982|31-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.005747126 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100019094|40-C/T 100019137|21-G/C 100019699|26-G/C 100020118|29-C/T 100020890|29-C/T 100021219|23-C/T 100021521|57-T/G 100022288|6-G/C 100022337|30-A/G 100022554|22-T/C 100023064|19-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.009433962 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004878049   
## 100045690|24-G/A 6650514|37-T/A 6651982|15-T/A 6653247|28-A/C 6653292|47-C/G 6653430|58-A/G 6653481|64-T/C 6653533|6-C/A 6653865|59-A/C 6661831|60-G/A 100015200|15-A/C   
## 0.004484305 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100015297|26-C/T 100015382|10-T/A 100017834|8-C/T 100020258|46-C/T 100021617|53-T/C 100021932|18-G/T 100022038|23-C/A 100022622|15-A/G 100022667|15-C/T 100022800|24-C/A 100022903|55-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004329004 0.000000000 0.000000000 0.000000000 0.000000000   
## 100023130|51-G/C 100023154|5-T/C 100023531|17-A/G 100045599|24-A/G 100065227|31-T/C 100065691|24-C/T 100066039|22-G/A 100066092|14-C/T 100074069|38-T/C 100106301|19-A/G 6650690|47-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.007575758 0.000000000 0.000000000 0.005263158   
## 6651361|32-G/A 6652061|58-G/A 6652327|54-A/T 6653204|40-A/G 6653393|35-C/A 6653673|65-A/G 6653746|33-C/A 6661305|25-C/G 6664067|16-C/A 6664716|12-T/C 100015645|28-C/T   
## 0.004237288 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100016045|44-C/T 100016331|42-T/C 100017699|11-G/A 100018593|39-G/A 100018814|46-A/G 100019003|20-A/T 100019081|63-A/T 100019377|57-G/A 100019413|55-T/G 100019588|52-G/A 100021006|21-C/T   
## 0.000000000 0.000000000 0.004807692 0.000000000 0.004566210 0.000000000 0.000000000 0.000000000 0.004444444 0.000000000 0.000000000   
## 100021094|7-C/G 100022208|18-A/C 100022310|31-G/A 100022384|48-G/A 100022899|42-C/G 100108128|12-A/T 6650846|64-A/G 6650911|65-G/A 6651088|5-A/C 6651399|12-C/A 6652520|9-A/G   
## 0.000000000 0.000000000 0.004310345 0.000000000 0.000000000 0.004385965 0.000000000 0.000000000 0.000000000 0.000000000 0.008510638   
## 6653133|15-G/A 6653564|53-G/A 6653709|31-G/A 6653720|68-C/A 6653797|40-A/T 6653874|10-G/T 6653907|59-A/G 6653965|43-A/G 100065805|29-G/T 6661880|32-C/T 100015400|35-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.005524862 0.000000000 0.005102041 0.008695652 0.006097561   
## 100016174|6-C/A 100016241|19-C/T 100016653|31-G/A 100017080|12-A/T 100017172|64-G/C 100017659|13-G/A 100017936|42-T/C 100018252|52-A/G 100018331|42-G/A 100019441|49-A/T 100020597|8-T/A   
## 0.000000000 0.000000000 0.000000000 0.004385965 0.000000000 0.000000000 0.004273504 0.008333333 0.000000000 0.004273504 0.000000000   
## 100020814|67-G/A 100022284|10-G/A 100022341|63-A/G 100023203|29-C/G 100023334|6-G/T 100023527|5-T/A 100082625|32-A/G 6631600|18-G/A 6634219|54-C/T 6650605|38-G/A 6650666|57-T/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.013513514 0.008620690 0.000000000 0.009174312   
## 6650850|54-G/C 6651176|17-T/A 6651223|56-T/G 6651266|67-C/T 6651497|13-G/A 6651500|53-T/A 6652020|49-C/T 6652396|20-C/T 6652765|20-C/T 6653179|35-C/A 6653588|36-G/A   
## 0.000000000 0.000000000 0.004166667 0.000000000 0.000000000 0.000000000 0.009009009 0.000000000 0.004329004 0.004484305 0.000000000   
## 6653617|17-C/G 6653803|13-C/G 6653921|17-G/A 6654071|34-C/T 6658453|44-C/T 6662623|41-C/T 100015396|38-G/A 100015614|19-G/A 100015961|7-A/G 100016361|49-G/A 100016600|22-G/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.010526316 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100017130|57-T/G 100017328|47-G/A 100018645|27-A/G 100018647|11-T/C 100019579|57-A/G 100019755|66-T/A 100020516|10-T/C 100021870|45-T/C 100022119|34-G/A 100022158|40-C/G 100022170|46-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004366812 0.000000000 0.004739336 0.000000000 0.000000000   
## 100022467|38-A/C 100022708|55-T/C 100023428|39-C/A 100064901|22-G/A 100066583|50-G/C 100082198|48-A/G 100082209|53-T/A 100114666|37-A/T 6650551|48-A/C 6650640|8-G/T 6651037|14-A/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004926108 0.004115226 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651123|16-G/T 6651198|35-C/T 6651548|20-C/G 6652349|48-A/C 6652912|31-C/T 6652960|9-G/T 6653047|24-C/T 6653111|54-G/C 6653182|48-A/G 6653306|31-C/A 6653329|47-T/C   
## 0.000000000 0.007042254 0.004310345 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004115226 0.000000000   
## 6653695|53-T/C 6657908|24-T/C 6658488|17-G/A 6661172|54-T/C 6661256|38-C/G 6665238|10-A/T 100016051|64-C/A 100016065|42-C/A 100016173|67-C/G 100016227|33-T/G 100016734|15-A/G   
## 0.004329004 0.005154639 0.000000000 0.000000000 0.004201681 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100017686|33-G/C 100017703|8-T/C 100017977|13-T/C 100018439|16-T/C 100020203|19-G/A 100021102|63-A/C 100021231|28-T/G 100021723|29-T/G 100022522|40-C/T 100022709|6-G/A 100045624|6-C/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.004878049 0.000000000 0.000000000 0.004347826 0.000000000 0.000000000 0.000000000   
## 6650668|41-T/C 6650746|17-T/C 6650807|17-C/T 6650886|31-G/A 6650934|11-G/A 6651435|37-C/T 6651778|31-G/A 6651783|65-C/T 6652191|59-C/T 6652464|36-A/G 6652873|35-C/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.004807692 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653077|56-T/C 6653537|32-A/G 6653577|27-G/A 6653747|15-A/G 6661083|6-C/T 6661240|52-C/A 6661424|62-T/C 6661830|19-T/C 6665513|19-G/C 6661486|13-G/C 100015240|23-G/A   
## 0.000000000 0.005376344 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100016947|13-A/G 100018671|65-G/A 100019864|8-C/G 100019949|8-C/T 100020694|31-T/C 100022684|13-T/A 100022926|58-G/T 100023200|68-C/T 100044609|42-A/G 100065342|51-C/T 100066803|48-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004115226 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100085950|35-A/G 100108060|20-G/C 6630419|14-G/A 6650581|35-C/G 6650628|40-T/C 6650650|35-G/T 6650684|65-A/T 6650719|47-G/A 6650735|38-G/C 6650879|60-C/T 6651049|16-C/G   
## 0.000000000 0.000000000 0.004878049 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.006172840 0.000000000 0.000000000   
## 6651124|38-C/T 6651144|62-T/C 6651167|41-A/G 6651516|36-T/G 6651679|24-G/A 6651984|7-T/A 6652023|10-G/A 6652091|50-T/A 6652242|32-G/A 6652409|10-T/C 6653236|64-T/C   
## 0.000000000 0.000000000 0.000000000 0.004219409 0.000000000 0.000000000 0.000000000 0.004545455 0.000000000 0.004366812 0.000000000   
## 6653348|13-G/A 6653637|32-G/T 6653657|58-T/C 6653943|15-G/T 6653959|63-A/G 6654028|68-A/G 6654050|51-G/T 6654072|32-C/A 6657061|32-A/G 6661522|65-A/G 6665120|10-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.004761905 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100120328|20-T/C 100120333|61-G/A 100065668|5-T/C 100015835|6-C/T 100016061|39-G/C 100016656|14-T/C 100017602|16-G/A 100019319|48-T/C 100019777|21-G/C 100021190|47-T/C 100022177|66-A/G   
## 0.000000000 0.011235955 0.000000000 0.000000000 0.008888889 0.000000000 0.000000000 0.011299435 0.000000000 0.000000000 0.000000000   
## 100023241|6-T/C 100044452|9-C/G 100065422|7-G/A 100066442|52-G/A 6650473|26-A/G 6650482|38-T/C 6650496|24-C/T 6650610|24-T/A 6650644|49-A/G 6650834|54-C/A 6650842|16-G/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.007142857 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651138|26-A/T 6651261|54-G/A 6651453|19-A/C 6651597|59-A/G 6651744|34-A/T 6651756|62-G/A 6651812|33-C/T 6651980|42-A/G 6652201|21-C/A 6652243|14-C/G 6652864|38-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004291845 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653219|11-G/C 6653248|20-T/C 6653427|25-A/G 6653971|28-A/T 6657006|6-C/A 6657540|27-G/A 6661088|54-C/T 100082471|46-T/C 6661706|26-T/C 6664071|6-G/A 100016295|41-G/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100018466|44-G/A 100020140|32-T/C 100020690|9-T/G 100020765|38-G/C 100021275|46-C/T 100045738|12-T/A 100082496|60-G/T 6650712|28-A/C 6650913|49-A/G 6650972|30-C/T 6651222|59-G/A   
## 0.004830918 0.004201681 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651438|51-T/C 6651492|20-G/A 6651654|52-A/G 6651829|48-G/A 6651860|44-T/G 6651877|63-C/T 6651935|33-C/T 6651974|35-C/T 6651986|27-T/C 6652262|36-T/C 6652560|9-A/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652688|16-G/A 6652875|8-C/G 6653021|18-A/G 6653263|25-G/C 6653294|9-G/A 6653410|59-G/C 6653536|55-G/A 6653603|22-T/C 6653802|50-G/C 6653830|13-C/T 6653963|35-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004310345 0.000000000 0.000000000 0.014084507   
## 6654043|16-A/G 6658028|40-G/C 6661349|14-C/A 6661568|63-A/T 6661747|28-T/C 6663960|60-T/C 6663980|14-A/G 100019622|48-T/A 100019802|12-C/T 100020020|13-G/A 100021576|15-T/C   
## 0.004424779 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.006578947 0.000000000 0.000000000   
## 100022394|27-C/T 100023389|57-T/G 100023502|39-T/A 100073839|28-C/G 6635439|23-T/C 6650563|22-C/T 6650688|61-A/G 6650747|16-A/C 6650772|42-C/A 6650861|34-T/A 6651030|62-A/T   
## 0.000000000 0.000000000 0.004444444 0.004132231 0.008230453 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651225|58-T/C 6651322|19-G/A 6651329|44-C/A 6651331|12-T/A 6651353|65-C/A 6651374|45-A/G 6651589|18-T/A 6651687|45-A/G 6651748|42-G/T 6651933|62-A/G 6652449|21-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652527|63-C/A 6652542|24-G/C 6652684|46-A/G 6652730|63-C/G 6652782|44-C/T 6652925|43-T/C 6653316|17-T/A 6653365|26-A/G 6653370|22-C/T 6653474|66-G/A 6653556|52-A/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004901961 0.000000000 0.000000000 0.004587156 0.000000000 0.000000000   
## 6653733|18-G/T 6653741|19-T/C 6653765|48-T/C 6653879|16-T/C 6654049|52-T/A 6657335|32-G/A 6658312|10-A/G 6661127|7-A/C 6661289|11-T/C 6661380|15-T/G 6661529|31-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004464286 0.000000000   
## 6661563|46-C/A 6661785|56-A/G 6661832|23-C/T 6663079|11-G/A 6665675|20-A/G 6666102|6-C/T 100121706|16-C/T 100015265|55-C/A 100015554|25-A/G 100017634|45-C/T 100018229|31-T/A   
## 0.000000000 0.000000000 0.004255319 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100018597|37-C/G 100018998|48-T/C 100019106|32-T/C 100093589|24-T/C 6632259|35-G/A 6632582|5-C/T 6650532|52-G/A 6650756|47-A/G 6650830|17-G/A 6650851|66-A/T 6650928|5-A/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6650987|34-A/G 6651080|35-C/T 6651107|37-G/A 6651110|32-G/T 6651196|62-C/A 6651288|46-T/C 6651442|63-C/T 6651613|49-C/A 6651658|42-A/T 6651720|6-A/G 6651765|63-C/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651802|34-G/T 6651873|50-T/C 6651874|53-T/A 6651906|20-T/A 6651943|26-G/A 6651957|58-G/A 6652104|41-C/G 6652143|61-T/G 6652149|28-A/G 6652158|57-C/T 6652181|32-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652211|12-C/T 6652240|22-G/A 6652269|40-C/T 6652459|65-C/T 6652473|56-G/T 6652516|46-A/G 6652757|25-T/C 6652797|7-G/T 6652811|14-C/T 6652891|17-T/C 6652914|32-A/G   
## 0.000000000 0.000000000 0.000000000 0.006756757 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652922|32-G/A 6653051|5-G/C 6653071|48-C/T 6653276|22-T/C 6653337|5-T/C 6653343|21-C/G 6653392|28-C/G 6653404|15-T/C 6653456|52-A/G 6653484|18-G/A 6653641|8-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004166667 0.000000000 0.000000000   
## 6653669|32-C/T 6653732|48-A/T 6653735|8-T/G 6653739|44-G/C 6653814|28-G/A 6653826|65-T/G 6653844|35-A/G 6653895|16-A/G 6653898|20-C/A 6653961|15-T/C 6654048|23-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.005747126 0.000000000   
## 6657273|10-C/G 6657733|25-C/T 6657825|20-A/C 6658114|32-C/G 6658233|5-T/G 6658363|20-A/C 6661157|31-A/G 6661223|43-A/T 6661238|20-T/G 6661454|19-A/G 6661478|59-G/T   
## 0.000000000 0.000000000 0.004115226 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6661581|31-C/T 6661584|33-A/T 6661734|17-A/G 6662610|35-C/T 6663909|13-G/T 6664051|46-A/C 6665119|8-A/G 6666170|15-A/C 6666170|17-G/A 6666170|6-G/A 100018529|16-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.008064516   
## 100019109|54-C/T 100020873|6-C/G 100020968|7-A/G 100021983|42-A/C 100022525|11-T/A 100065722|64-T/C 6650393|5-T/C 6650424|56-T/C 6650439|56-G/A 6650466|32-T/C 6650505|17-A/G   
## 0.000000000 0.000000000 0.000000000 0.004132231 0.000000000 0.005076142 0.005617978 0.000000000 0.000000000 0.000000000 0.006622517   
## 6650506|45-A/C 6650533|15-G/T 6650557|47-G/T 6650621|36-G/A 6650631|22-C/T 6650685|22-A/T 6650724|18-T/A 6650838|22-C/T 6650866|40-T/C 6650867|54-T/C 6650893|22-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6650917|35-C/T 6650920|31-G/C 6651018|30-A/C 6651060|22-T/C 6651146|26-G/A 6651378|67-C/T 6651387|24-T/A 6651391|45-G/A 6651444|17-T/C 6651450|54-T/G 6651457|37-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.005154639 0.000000000 0.000000000 0.000000000   
## 6651484|65-A/G 6651503|6-A/G 6651510|59-A/G 6651537|19-A/C 6651552|29-C/T 6651562|32-G/C 6651569|33-T/G 6651580|22-T/A 6651606|13-T/C 6651612|31-C/T 6651615|24-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651705|42-A/G 6651737|5-C/T 6651892|35-T/C 6651930|26-G/C 6651938|17-A/C 6652055|48-A/G 6652132|43-T/C 6652144|17-G/A 6652212|22-A/G 6652231|38-C/A 6652386|55-C/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652398|40-G/A 6652413|28-C/A 6652427|27-T/A 6652438|68-G/A 6652494|24-T/C 6652515|15-A/G 6652518|57-T/C 6652535|53-G/T 6652564|55-A/G 6652619|16-T/C 6652816|67-C/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.009090909 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652945|37-C/A 6653041|46-A/G 6653142|49-C/A 6653144|56-G/T 6653148|46-A/C 6653163|62-T/C 6653369|63-C/T 6653408|40-T/C 6653429|7-A/G 6653439|17-G/C 6653493|47-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.008264463 0.000000000   
## 6653501|7-C/T 6653502|28-G/C 6653504|7-C/G 6653563|7-T/A 6653593|19-T/C 6653740|20-C/T 6653755|14-T/C 6653790|16-T/G 6653834|11-T/C 6653851|28-A/C 6653936|33-A/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004484305 0.000000000 0.000000000   
## 6653989|22-G/A 6654038|30-G/A 6654047|8-G/A 6654066|45-C/G 6657075|25-A/C 6657215|14-A/T 6657652|33-T/C 6658198|15-T/C 6658380|19-G/A 6658597|10-T/C 6661103|59-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004366812 0.000000000   
## 6661108|53-A/G 6661557|11-G/A 6661627|50-T/C 6661879|7-T/C 6662888|24-C/A 6662892|24-C/T 6664359|17-A/T 6664391|17-A/G 6664780|11-C/T 6665039|22-C/G 6666100|22-C/T   
## 0.004310345 0.004807692 0.000000000 0.006535948 0.000000000 0.000000000 0.000000000 0.000000000 0.004761905 0.000000000 0.000000000   
## 6666102|30-T/C 6654102|57-C/A 100016395|29-T/C 100020724|58-C/T 100022521|22-C/T 100022955|34-C/A 100045457|17-G/A 100073683|46-G/A 100093512|17-C/G 100102305|42-T/G 100121708|34-C/G   
## 0.000000000 0.000000000 0.006578947 0.000000000 0.000000000 0.000000000 0.006329114 0.000000000 0.000000000 0.000000000 0.000000000   
## 6650447|47-T/C 6650456|36-A/G 6650499|21-C/T 6650502|55-C/G 6650518|44-C/T 6650566|9-A/G 6650589|18-C/T 6650595|24-C/T 6650602|41-G/A 6650625|38-T/C 6650630|7-C/G   
## 0.006944444 0.000000000 0.000000000 0.000000000 0.010526316 0.000000000 0.000000000 0.004132231 0.004166667 0.000000000 0.000000000   
## 6650642|21-G/A 6650708|55-C/A 6650731|33-G/A 6650777|15-G/C 6650798|22-T/C 6650874|54-T/G 6650892|52-T/C 6650926|30-T/C 6650951|18-A/G 6650983|20-T/G 6651002|11-G/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004608295   
## 6651006|19-G/A 6651015|9-T/A 6651028|11-C/T 6651064|34-C/G 6651075|68-C/T 6651082|17-A/G 6651108|57-A/T 6651169|15-T/C 6651211|35-G/A 6651214|29-G/C 6651218|36-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.005102041   
## 6651236|9-A/C 6651265|9-G/A 6651293|36-A/T 6651299|48-A/G 6651311|22-C/T 6651316|37-T/G 6651339|7-G/A 6651360|17-C/A 6651411|25-A/G 6651455|40-A/G 6651480|6-A/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004504505 0.000000000   
## 6651535|17-G/C 6651553|40-C/T 6651633|11-G/C 6651642|43-A/C 6651652|13-T/A 6651653|46-A/T 6651666|39-C/A 6651668|54-T/C 6651692|43-T/C 6651779|57-A/G 6651819|25-G/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651894|54-A/G 6651913|20-A/G 6651928|6-C/T 6651950|10-C/T 6651962|57-C/T 6651979|59-G/T 6652004|68-A/T 6652041|41-T/C 6652076|24-T/G 6652082|47-A/G 6652128|6-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.005102041 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652178|42-C/T 6652228|29-C/T 6652229|59-T/C 6652252|11-C/T 6652279|53-A/T 6652302|43-G/A 6652328|42-T/G 6652402|15-A/G 6652405|52-T/C 6652430|41-A/T 6652442|59-A/G   
## 0.016666667 0.000000000 0.004694836 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652444|19-A/C 6652476|42-G/A 6652478|11-G/T 6652495|5-G/A 6652517|8-A/G 6652531|35-T/C 6652633|57-C/A 6652685|43-G/A 6652711|52-C/T 6652775|11-G/A 6652812|20-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.005917160 0.000000000 0.004739336   
## 6652825|12-T/C 6652846|44-A/G 6652876|5-G/A 6652899|47-T/G 6652923|25-T/A 6652938|38-G/A 6652954|34-G/A 6652977|48-A/C 6653056|35-C/G 6653113|5-G/A 6653221|12-A/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653285|45-G/C 6653299|45-T/C 6653300|45-T/C 6653301|16-C/T 6653302|10-C/T 6653314|19-C/A 6653350|22-C/T 6653402|19-G/T 6653488|18-C/T 6653495|56-A/T 6653519|51-A/G   
## 0.000000000 0.008771930 0.000000000 0.004854369 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.007812500 0.000000000   
## 6653534|60-C/T 6653576|42-C/A 6653592|23-G/A 6653671|64-C/A 6653680|17-G/A 6653685|30-G/A 6653711|10-T/A 6653718|49-A/C 6653737|54-G/A 6653753|52-T/C 6653780|36-C/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653880|38-A/G 6653900|13-T/A 6653944|44-G/A 6653977|55-A/G 6653997|67-G/A 6654006|12-T/C 6654014|37-G/A 6654041|11-A/G 6654055|10-A/G 6654086|14-G/A 6654088|35-T/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004878049 0.000000000   
## 6656956|22-A/G 6657047|46-C/T 6657188|43-C/G 6657327|42-G/C 6657536|7-A/G 6657721|47-G/C 6657808|17-T/A 6657912|46-T/G 6658001|44-A/T 6658011|9-C/A 6658107|14-C/G   
## 0.000000000 0.000000000 0.000000000 0.004149378 0.005076142 0.000000000 0.000000000 0.000000000 0.004132231 0.000000000 0.010101010   
## 6658156|5-G/T 6658199|15-T/C 6658229|33-G/T 6658234|5-T/G 6658254|27-T/C 6658284|37-G/A 6658292|22-T/C 6658327|20-A/G 6658407|20-G/A 6658414|11-G/A 6658562|19-G/T   
## 0.000000000 0.000000000 0.004166667 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6658586|32-A/C 6658643|11-C/T 6658671|14-C/T 6661089|25-T/C 6661118|54-A/G 6661135|53-G/A 6661189|30-T/C 6661215|39-T/G 6661222|65-T/A 6661248|53-C/G 6661249|13-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6661292|48-T/C 6661362|55-T/C 6661374|18-A/G 6661410|32-G/T 6661422|22-C/T 6661440|5-C/T 6661444|36-A/G 6661467|8-T/G 6661491|67-G/C 6661502|37-A/T 6661590|51-A/C   
## 0.000000000 0.000000000 0.005988024 0.000000000 0.004587156 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6661599|28-A/G 6661630|50-G/A 6661635|15-T/C 6661640|37-T/A 6661680|9-C/G 6661723|32-C/T 6661736|14-G/C 6661758|19-G/A 6661804|60-A/G 6661810|40-A/C 6661811|44-T/A   
## 0.005208333 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004166667 0.000000000   
## 6661811|67-G/A 6661833|57-C/T 6661841|11-G/A 6661855|40-T/C 6661864|19-T/A 6661882|41-A/G 6661883|8-G/A 6661885|20-A/T 6662600|6-A/G 6662722|30-G/C 6662742|10-A/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004405286 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6662844|10-A/C 6662885|9-G/T 6662886|27-C/T 6662910|18-C/G 6662926|18-T/C 6663096|18-A/T 6663907|45-A/G 6663910|8-C/T 6663965|32-C/T 6663983|49-G/C 6663986|51-T/A   
## 0.004237288 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6664025|20-C/T 6664038|20-G/A 6664063|32-G/A 6664295|6-G/A 6664431|31-A/G 6664713|15-G/A 6665122|10-A/C 6665220|17-C/T 6665221|28-T/C 100109498|18-A/G 100109477|15-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100109477|9-A/C 6665568|14-T/C 6665571|10-T/C 6665805|26-C/G 6666099|20-C/T 6666516|59-G/A 100124929|12-A/G 100016665|5-A/G 100016860|40-G/A 100019055|15-C/A 100019486|67-T/C   
## 0.000000000 0.000000000 0.004366812 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100020835|48-C/G 100044994|33-G/A 100064828|9-G/T 100064931|32-G/A 100065941|26-T/C 100073522|28-A/G 100081694|12-C/T 100093694|8-T/G 100114698|38-A/T 100121709|38-A/G 6631771|63-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6643511|8-T/C 6650389|25-A/G 6650408|50-C/T 6650436|33-G/A 6650531|50-G/A 6650573|57-G/A 6650637|15-T/C 6650654|52-A/C 6650710|46-T/G 6650720|22-A/T 6650779|16-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004184100 0.000000000   
## 6650822|27-G/A 6650832|27-T/C 6650901|27-G/A 6650902|39-G/T 6650937|10-A/G 6650960|65-A/G 6651019|62-A/G 6651142|65-T/C 6651204|9-G/A 6651227|47-C/T 6651280|20-T/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651418|16-G/T 6651508|15-G/T 6651574|38-G/T 6651577|11-A/G 6651598|31-T/C 6651697|15-C/T 6651725|7-T/C 6651760|20-A/T 6651762|50-A/G 6651788|15-A/G 6651792|9-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.006535948 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651793|43-T/C 6651862|51-C/T 6651882|23-G/A 6651884|35-A/C 6651903|16-A/G 6651924|35-T/C 6651929|41-G/T 6651993|33-G/A 6651998|13-G/T 6652029|51-G/A 6652043|18-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.004424779 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652138|37-A/G 6652167|65-C/G 6652206|59-C/A 6652238|26-C/T 6652289|28-A/T 6652298|67-A/G 6652307|44-C/A 6652334|58-A/T 6652336|15-C/A 6652366|34-C/A 6652425|29-A/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004716981 0.000000000 0.000000000   
## 6652524|49-C/T 6652588|40-G/T 6652613|43-C/G 6652632|21-A/G 6652778|29-G/A 6652802|13-A/T 6652819|42-A/C 6652826|14-T/C 6653026|52-G/C 6653068|62-G/C 6653116|22-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004464286 0.000000000 0.000000000   
## 6653218|66-C/G 6653354|23-C/A 6653444|44-G/T 6653464|25-A/G 6653494|25-G/A 6653568|59-G/C 6653672|51-G/T 6653690|24-G/C 6653700|47-T/C 6653713|41-T/C 6653736|20-T/A   
## 0.000000000 0.004329004 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653875|30-C/T 6653968|66-C/G 6653974|33-T/A 6653991|65-G/T 6657021|28-G/A 6657102|16-C/T 6657128|18-G/A 6657132|5-A/C 6657178|34-G/A 6657193|53-C/T 6657201|19-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.007142857 0.004739336 0.000000000 0.000000000   
## 6657204|30-A/C 6657318|9-G/A 6657354|8-C/T 6657383|35-G/T 6657458|5-C/G 6657566|43-G/A 6657607|43-G/A 6657631|9-G/A 6657655|8-T/C 6657745|21-C/A 6657813|21-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6657950|26-T/C 6658016|18-C/G 6658025|28-G/A 6658074|26-C/A 6658086|13-T/C 6658116|19-T/G 6658140|8-T/C 6658176|39-C/T 6658256|13-G/C 6658270|50-G/T 6658309|15-G/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6658382|35-G/A 6658386|9-G/T 6658396|48-A/T 6658416|19-T/C 6658448|12-A/G 6658539|20-A/G 6658593|6-T/C 6658605|5-T/A 6658616|40-G/T 6658646|18-C/A 6661133|7-C/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6661179|34-A/T 6661195|26-A/G 6661294|16-G/T 6661342|14-G/C 6661347|62-A/G 6661359|29-T/C 6661360|12-T/C 6661375|25-G/A 6661390|29-G/A 6661411|10-A/T 6661415|7-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6661429|43-A/G 6661461|24-A/G 6661525|21-A/G 6661561|6-A/G 6661611|46-A/C 6661622|45-G/T 100097038|21-G/A 6661741|18-C/T 6661767|9-T/C 6661768|5-T/C 6661780|15-A/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.005025126 0.000000000 0.008849558 0.000000000 0.000000000 0.000000000 0.000000000   
## 6661784|18-A/G 6661801|15-C/T 6662572|23-G/A 6662577|20-C/A 6662598|13-T/G 6662619|18-C/T 6662621|6-C/T 6662686|27-C/T 6662729|33-C/T 6662743|22-C/T 6662903|44-T/C   
## 0.005988024 0.000000000 0.000000000 0.000000000 0.000000000 0.013157895 0.000000000 0.006134969 0.004166667 0.000000000 0.000000000   
## 6664062|57-T/C 6664077|54-G/T 6664087|35-A/T 6664282|11-G/A 6664352|17-T/G 6664715|34-G/A 6665049|6-C/T 6665121|17-A/G 6665508|35-A/G 6665515|61-A/G 6665540|8-G/A   
## 0.007194245 0.000000000 0.000000000 0.004807692 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004524887 0.000000000   
## 6665849|33-C/T 6666095|7-A/G 6666174|7-C/T 6666520|31-G/A 100015941|21-T/C 100016251|35-G/A 100016732|29-G/A 100045346|24-C/T 100045582|33-G/A 100045632|7-G/A 100064767|54-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004132231 0.000000000 0.004694836 0.000000000   
## 100064928|53-G/A 100065927|39-C/T 100074119|31-T/C 100082416|45-C/A 100085968|36-G/A 100091287|38-A/T 100093420|8-G/A 100104859|48-T/C 100121707|24-C/G 6650478|7-C/T 6650577|59-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6650765|26-G/A 6651007|49-A/G 6651119|61-A/G 6651133|33-C/T 6651237|16-C/T 6651693|21-C/T 6651704|49-G/T 6651952|32-C/T 6652155|42-G/C 6652275|21-C/T 6652283|16-C/T   
## 0.000000000 0.000000000 0.004524887 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652292|40-G/A 6652303|27-C/T 6652553|13-A/G 6652626|33-A/G 6652630|7-G/C 6652656|7-T/C 6652758|10-G/A 6653200|23-C/A 6653877|30-A/G 6653984|20-G/T 6656875|8-A/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004201681 0.000000000   
## 6656924|30-G/C 6656996|5-A/T 6657117|41-C/T 6657154|6-G/A 6657156|29-A/C 6657483|18-T/G 6657561|6-C/T 6657735|31-T/A 6657741|7-G/A 6657814|9-A/G 6657850|12-C/G   
## 0.000000000 0.000000000 0.000000000 0.007751938 0.000000000 0.000000000 0.000000000 0.000000000 0.004694836 0.004255319 0.000000000   
## 6657942|13-C/G 6657997|45-C/T 6658062|30-T/G 6658550|29-A/G 6658582|12-C/G 6658632|5-T/C 6661273|54-T/A 6661308|52-T/C 6661408|14-C/T 6661538|9-G/A 6661791|66-G/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.010309278 0.000000000 0.000000000 0.000000000   
## 6661818|22-G/A 6662638|5-A/G 6662824|38-C/T 6662887|8-G/C 6663037|41-C/G 6664882|7-A/C 6665050|32-A/T 6665295|5-T/C 100019888|47-T/C 100045453|46-G/A 100045704|9-A/G   
## 0.000000000 0.000000000 0.004273504 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100064586|17-G/C 100066059|7-C/T 100074054|47-T/A 100082120|8-T/C 100086057|9-A/G 100086096|24-G/T 100093333|41-G/C 100098548|28-A/G 100104693|28-T/A 100104890|20-C/A 100106918|8-T/C   
## 0.000000000 0.000000000 0.010638298 0.000000000 0.004255319 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100086278|15-A/T 100098561|7-T/A 100112393|13-T/C 6665409|19-C/A 100106209|11-T/A 6652014|36-G/A 100016895|29-G/A 6661843|44-G/A 6652389|64-T/C 6661649|50-A/C 6657666|21-A/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.012552301 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6661268|63-T/G 100023082|28-G/T 100017188|42-C/G 6661288|45-T/C 100021319|48-T/G 100045470|27-C/T 6661435|57-G/T 100065514|5-T/C 6630387|13-C/T 100065726|10-C/T 6653782|5-C/T   
## 0.000000000 0.000000000 0.004464286 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.006756757   
## 100021899|36-A/T 100066454|16-G/T 100065272|30-T/C 100066129|22-G/A 6653374|61-T/C 6664733|54-T/A 100022349|67-T/A 100015942|46-A/C 100016792|52-G/C 100018206|33-G/A 100064825|31-G/T   
## 0.000000000 0.000000000 0.000000000 0.006578947 0.000000000 0.012422360 0.000000000 0.000000000 0.004464286 0.000000000 0.000000000   
## 100066202|30-T/C 100073401|49-C/A 6633382|47-T/C 100021640|61-G/C 100022856|29-A/C 100023978|37-A/T 6652591|64-T/C 6661464|50-T/A 100015796|50-T/A 100016769|29-T/C 100019373|29-G/A   
## 0.000000000 0.000000000 0.006944444 0.000000000 0.000000000 0.004545455 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100023055|35-A/T 100097014|5-T/G 6661225|60-T/C 6661548|33-A/T 100017088|61-C/T 100023509|31-T/C 100015492|43-G/A 100018948|22-T/C 100020108|6-G/A 100020234|29-G/C 100021104|60-G/C   
## 0.000000000 0.004444444 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004464286   
## 100022438|10-G/T 100065777|27-G/T 6634350|32-G/T 100015248|33-A/G 100016465|17-G/A 100016470|38-G/A 100017055|22-C/A 100020326|38-A/G 100020580|5-T/G 100020916|54-A/T 100022162|26-G/C   
## 0.004219409 0.000000000 0.004807692 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100022968|12-G/A 100023214|50-T/C 100023558|48-A/G 100065527|10-A/G 100108046|10-C/G 6652805|19-C/T 6653649|51-C/A 100016806|34-T/C 100016973|34-G/A 100017185|9-C/T 100019652|10-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.008849558 0.000000000   
## 100020977|12-T/C 100021791|20-G/A 100064895|33-A/T 100064988|25-T/C 6653972|28-A/G 6658602|21-G/C 100015510|28-A/T 100016175|6-T/C 100016191|14-G/A 100018397|31-G/T 100019542|48-A/C   
## 0.004504505 0.005050505 0.000000000 0.000000000 0.005208333 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100020295|21-C/T 100020374|38-T/C 100021678|59-A/G 100066638|43-T/G 6653330|11-G/A 100015953|68-T/C 100016139|30-C/T 100016326|61-C/T 100016487|19-G/T 100016577|32-A/G 100016760|26-T/A   
## 0.000000000 0.000000000 0.000000000 0.004237288 0.000000000 0.000000000 0.000000000 0.005154639 0.000000000 0.005376344 0.000000000   
## 100016954|51-G/A 100017145|65-A/G 100017289|41-G/C 100017927|57-A/G 100019119|41-A/C 100019129|28-A/G 100020392|13-C/T 100021327|23-G/A 100022094|8-A/T 100023476|68-C/T 100065094|17-G/A   
## 0.000000000 0.000000000 0.000000000 0.007633588 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004504505 0.000000000   
## 100082310|17-G/A 100091292|53-C/T 6633859|61-C/G 6651602|9-A/G 6653320|67-A/G 100015805|62-G/A 100016005|36-T/C 100017432|35-A/G 100019685|30-C/T 100020281|34-T/C 100020816|17-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.005263158 0.000000000 0.012987013 0.000000000 0.000000000 0.000000000 0.000000000   
## 100020920|57-A/G 100021124|31-G/T 100021513|63-A/G 100021836|10-G/A 100022515|43-C/T 100023216|57-G/T 100023496|7-C/T 100023681|60-G/A 100065088|33-A/T 100065666|45-T/C 100066471|53-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.008771930 0.000000000   
## 6652033|13-A/C 6661430|6-G/T 6661570|26-C/T 6661730|63-G/C 100016186|12-C/A 100016774|44-T/A 100017111|47-A/G 100017208|21-G/A 100017523|52-T/C 100017874|53-A/G 100018144|64-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.010309278 0.008620690 0.004310345   
## 100018225|53-A/G 100018942|41-G/T 100019677|5-A/G 100022269|27-A/T 100066082|15-C/A 100066253|43-C/A 100066444|14-G/A 100114672|22-C/T 6651282|60-A/T 6651428|21-T/C 6652874|33-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100015264|22-A/T 100015814|11-C/G 100015850|40-T/C 100016120|45-G/A 100017115|64-C/T 100017958|17-G/A 100018308|19-A/G 100018683|52-C/T 100019218|10-T/C 100019222|23-G/C 100020050|41-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100020331|13-C/T 100020335|6-A/C 100021226|41-T/G 100021502|29-G/A 100021862|6-G/A 100021994|17-A/G 100022357|61-G/A 100022781|47-C/T 100023182|23-A/G 100023311|52-A/T 100023534|68-C/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.007874016 0.008888889 0.000000000 0.000000000   
## 6653500|12-A/G 6661123|54-G/C 6665401|24-G/T 100015499|31-G/A 100015907|12-G/C 100016631|34-T/C 100019009|45-G/A 100019123|42-G/A 100019424|28-A/G 100019445|67-A/C 100019654|17-C/T   
## 0.000000000 0.000000000 0.014925373 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100020359|57-A/G 100020876|63-C/T 100022261|20-C/T 100022625|36-A/G 100023251|49-T/A 100090852|5-C/T 6653799|6-G/A 6661647|17-A/C 100015702|42-C/T 100015896|29-T/C 100016097|8-A/G   
## 0.007633588 0.004347826 0.000000000 0.000000000 0.000000000 0.013513514 0.000000000 0.000000000 0.004166667 0.000000000 0.000000000   
## 100016416|52-T/A 100016914|9-T/G 100017736|15-G/C 100018093|40-G/C 100018383|12-A/G 100018805|31-A/G 100018914|23-G/A 100019000|63-T/G 100019412|18-C/T 100019519|62-G/C 100019671|36-A/G   
## 0.000000000 0.004166667 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.005102041   
## 100019895|42-T/C 100020000|31-A/G 100020210|64-C/T 100021670|11-G/A 100021761|67-C/T 100022043|14-T/A 100022106|27-G/A 100022213|48-C/T 100022452|60-C/T 100022997|31-G/A 100065791|46-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004672897 0.000000000 0.000000000 0.000000000   
## 100066265|30-T/C 100066487|11-G/A 100101063|5-T/C 6634524|57-T/A 6652255|33-A/G 6661618|12-C/T 100015912|66-G/T 100015914|56-A/G 100016606|50-T/C 100016946|25-C/A 100017520|47-T/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004545455 0.000000000 0.000000000 0.000000000   
## 100018722|5-C/A 100019526|9-G/A 100019891|44-C/T 100020909|55-A/T 100020985|50-A/G 100021139|33-G/C 100021214|56-G/A 100021255|31-C/T 100021313|59-A/C 100022420|43-T/C 100022458|29-G/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004405286 0.000000000 0.000000000 0.000000000   
## 100022624|40-G/C 100022691|40-C/T 100023114|8-T/A 100023164|37-T/C 100023165|10-C/T 100023475|55-A/G 100024879|34-A/G 6650963|31-A/G 6650995|35-T/C 100015203|28-T/C 100015415|9-G/T   
## 0.000000000 0.000000000 0.004201681 0.000000000 0.000000000 0.000000000 0.004566210 0.000000000 0.000000000 0.000000000 0.000000000   
## 100015496|59-G/T 100015847|60-G/C 100015873|28-A/C 100015977|34-A/G 100016012|21-A/C 100016160|65-G/A 100016617|11-C/G 100016919|15-T/A 100016933|17-A/C 100017138|9-G/C 100017592|13-G/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004464286 0.004424779 0.000000000   
## 100017929|18-A/C 100018201|42-T/G 100018285|15-G/A 100018596|39-G/A 100018944|19-C/A 100019340|48-A/G 100019515|10-G/A 100019761|17-G/A 100019817|32-A/G 100020455|16-G/A 100020993|47-T/C   
## 0.004784689 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.005376344 0.000000000 0.000000000   
## 100022157|60-A/G 100023102|7-C/T 100045024|30-A/C 100065312|53-G/T 100066063|67-C/T 100066423|46-G/A 6634305|33-C/G 6651275|16-A/C 6652010|36-G/A 6661116|34-A/C 6664719|65-C/G   
## 0.008695652 0.000000000 0.000000000 0.000000000 0.005988024 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100015734|66-G/C 100015877|41-T/C 100016028|28-G/T 100016794|51-C/G 100016930|62-C/T 100016976|17-C/G 100017073|58-C/A 100017352|5-T/A 100017471|13-G/C 100017594|43-T/C 100017596|13-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.004115226 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100018057|54-A/T 100018384|20-C/A 100018436|8-C/T 100018459|29-C/T 100018601|57-C/A 100018886|5-G/C 100019401|38-C/A 100019538|40-A/G 100019682|13-G/C 100019773|68-G/T 100019884|7-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100020084|63-C/A 100020358|5-G/C 100020410|17-G/T 100020846|22-A/G 100021982|22-G/C 100022352|35-G/C 100023106|5-T/A 100023435|47-T/A 100023548|13-A/T 100064672|55-C/T 100091227|51-T/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.007812500 0.000000000 0.000000000 0.000000000 0.000000000   
## 100121014|17-C/T 6653240|15-A/T 100015605|26-A/G 100015623|29-T/A 100015712|9-A/T 100015915|16-G/C 100016293|25-T/A 100016319|36-T/C 100016723|21-C/T 100017173|15-T/A 100017697|22-G/A   
## 0.015748031 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.012987013 0.000000000 0.000000000 0.006578947   
## 100018492|22-T/C 100018548|16-C/T 100018796|68-C/T 100018865|11-C/A 100018936|13-C/T 100019019|18-A/G 100019086|21-G/A 100019131|12-T/C 100019765|29-C/T 100019951|22-C/T 100020346|50-T/C   
## 0.004310345 0.000000000 0.009009009 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004587156 0.000000000   
## 100021253|53-T/C 100021441|53-T/C 100021634|50-A/C 100021664|5-T/C 100021900|25-G/C 100021918|16-G/C 100021944|59-G/C 100022064|57-C/T 100022439|9-G/A 100022958|60-G/A 100023335|10-T/C   
## 0.000000000 0.004329004 0.000000000 0.005617978 0.000000000 0.000000000 0.004716981 0.000000000 0.004219409 0.004347826 0.000000000   
## 100066167|17-A/C 6652225|65-T/C 6653132|37-C/T 6653692|35-T/A 6661742|53-G/T 6663972|39-G/A 6664076|30-T/C 100015254|42-A/G 100015421|66-C/T 100017443|50-T/A 100018227|9-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.009090909 0.000000000 0.000000000 0.000000000   
## 100018684|33-T/C 100019036|18-A/C 100019346|5-C/T 100019642|57-C/T 100020216|59-T/G 100020462|12-G/T 100020825|41-T/A 100021447|5-C/T 100021487|10-A/G 100022350|27-C/T 100022637|44-C/T   
## 0.004444444 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100022974|38-G/A 100023108|17-G/A 100023245|57-A/T 100023390|19-G/A 100023533|34-T/C 100064760|51-A/T 100064984|7-A/T 6635254|28-C/T 6650882|51-G/T 6651794|65-C/A 6652456|5-G/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.005076142 0.000000000 0.000000000 0.000000000 0.004310345 0.000000000 0.000000000   
## 6652956|28-T/C 6653074|11-G/T 6653246|55-C/T 6653257|11-T/C 6653558|37-T/C 6653841|24-C/G 6661717|50-A/G 100015306|34-G/T 100017026|18-T/C 100017183|63-A/C 100017740|39-T/C   
## 0.000000000 0.004608295 0.000000000 0.000000000 0.000000000 0.004329004 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100018186|14-G/A 100018502|54-A/C 100019407|9-A/G 100019597|22-G/T 100019799|11-C/T 100020064|5-A/G 100020467|61-C/G 100021342|19-T/G 100021726|23-G/T 100021853|38-A/G 100022073|47-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004830918 0.000000000   
## 100022174|61-T/C 100022237|64-T/G 100022450|28-C/T 100023247|11-G/A 100024830|48-A/T 100065475|5-A/C 100065743|19-C/T 6651542|50-G/C 6652006|5-C/A 6652136|34-G/A 6652490|28-C/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653164|33-G/T 6661138|57-G/A 6661286|13-C/T 100015294|55-T/C 100015312|26-G/C 100015717|58-T/C 100016035|58-C/T 100017166|55-C/G 100017336|19-C/T 100017436|6-T/A 100018333|8-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004219409 0.000000000 0.000000000 0.000000000   
## 100018623|26-G/A 100018949|25-G/A 100019179|31-T/A 100019378|46-T/C 100019715|11-C/T 100020007|20-C/A 100020186|42-A/T 100020325|12-G/A 100020984|22-A/T 100021063|19-C/T 100021116|47-G/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100021276|48-T/C 100021323|21-A/G 100023352|36-C/T 100023524|20-T/A 100064607|25-T/A 100064666|61-G/A 100066449|6-A/G 100104023|51-G/T 6651556|12-T/C 6651732|66-T/C 6652161|13-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.015384615 0.000000000 0.000000000 0.000000000 0.000000000 0.011764706 0.000000000   
## 6653042|9-A/T 6661220|17-G/T 100015287|46-T/C 100015379|18-A/G 100015449|18-T/C 100016230|18-C/G 100016245|55-T/C 100016437|62-T/C 100017249|15-G/A 100018724|8-T/C 100018729|20-A/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004484305 0.000000000 0.000000000   
## 100018771|32-C/T 100019308|38-T/C 100019625|33-C/T 100019716|25-C/T 100020654|61-G/A 100021098|19-A/T 100021170|5-G/C 100021240|55-G/C 100021330|41-C/T 100021985|6-G/C 100022470|47-C/T   
## 0.000000000 0.000000000 0.004166667 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100022786|9-C/T 100022992|63-G/C 100023087|65-T/C 100023089|12-A/T 100065113|20-C/T 100065660|34-T/C 100082081|14-T/C 6650676|61-A/G 6650683|35-G/A 6650847|62-G/T 6651376|46-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.004329004 0.000000000 0.000000000 0.004524887 0.000000000 0.000000000 0.000000000   
## 6651698|17-A/G 6652341|11-G/A 6652418|6-T/A 6652657|13-T/C 6653549|37-G/A 6653926|47-C/T 6661137|45-A/G 6661795|29-A/G 6664067|38-C/T 100015300|34-C/G 100015553|64-G/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100015662|64-G/A 100015747|67-T/C 100016172|45-C/A 100016321|25-T/C 100016379|15-C/T 100016524|6-T/G 100016678|13-G/A 100017389|39-C/A 100017447|10-T/G 100018638|48-T/C 100019669|13-T/C   
## 0.000000000 0.000000000 0.000000000 0.006134969 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.005649718 0.000000000   
## 100021395|62-G/A 100021505|40-T/C 100021653|13-T/G 100021672|31-T/C 100022109|34-G/A 100022563|58-C/T 100022828|22-T/C 100023017|29-A/T 100066440|62-C/G 100066652|41-G/A 100096906|18-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.006250000 0.000000000 0.000000000 0.000000000 0.004166667 0.000000000   
## 6630114|53-A/C 6650736|10-G/T 6651252|16-C/T 6653034|28-A/G 6653152|22-C/A 6653197|10-T/C 6653543|62-T/A 6653729|12-T/C 6658435|49-C/A 6661280|18-T/C 6661782|19-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.005555556 0.000000000   
## 100015470|41-C/T 100016237|28-C/A 100016452|17-G/A 100016620|23-T/C 100016680|26-G/A 100016867|47-C/T 100016970|8-C/T 100018066|41-A/G 100018458|45-C/T 100018598|40-C/T 100019260|10-C/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100019313|6-T/C 100020459|17-G/C 100022183|15-A/C 100022219|59-T/A 100022324|20-A/T 100022476|18-T/C 100022820|44-T/C 100065830|50-G/A 100073534|35-A/T 100108129|53-C/A 6631518|25-C/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6650419|25-C/G 6650596|64-G/T 6650922|18-T/C 6650997|7-A/G 6651758|26-G/A 6652094|60-T/C 6652276|10-G/A 6652446|14-G/A 6652850|15-T/C 6652911|22-A/G 6653387|31-C/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.008968610 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653442|7-A/G 6653457|43-C/T 6653666|33-A/G 6653913|54-A/G 6661714|10-A/T 6661819|18-T/C 6665305|19-G/A 100015271|40-A/G 100015651|23-C/T 100016940|6-T/G 100017024|68-G/A   
## 0.005076142 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100018261|61-T/C 100018474|24-G/A 100018954|18-A/G 100019606|34-G/A 100019837|9-G/A 100020506|37-T/A 100020651|11-C/G 100021368|14-C/T 100021399|20-A/C 100021433|22-A/C 100021823|21-T/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.007575758 0.000000000 0.000000000 0.000000000   
## 100022483|30-T/A 100022774|66-T/G 100023022|43-C/T 100023206|43-A/G 100023292|16-A/G 100023396|25-C/T 100024289|11-T/C 100045482|25-C/T 100065022|34-A/G 100065562|43-G/A 100065795|26-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004291845 0.000000000   
## 100066292|25-T/C 100073974|41-A/C 100082647|16-C/A 6650814|43-G/C 6650908|37-A/C 6651113|11-C/G 6651346|28-A/T 6651709|24-A/G 6652049|29-T/C 6652500|45-G/T 6652777|22-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.006578947 0.000000000 0.000000000   
## 6653333|13-T/C 6653390|14-T/G 6653414|31-T/C 6653728|20-G/T 6654032|23-T/G 6654037|57-A/G 6657904|10-G/C 6661607|55-C/A 6661700|18-G/A 6662767|16-T/C 6664074|40-T/G   
## 0.000000000 0.000000000 0.000000000 0.004201681 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6664074|44-G/C 6664735|26-T/G 6665238|34-T/C 100124938|57-G/A 100015346|10-T/A 100016456|52-G/C 100016501|31-A/T 100017004|22-C/T 100017283|39-T/G 100017322|41-G/A 100017407|26-G/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100017421|12-A/G 100018243|9-T/C 100018879|32-C/A 100019658|67-A/G 100020347|21-G/C 100021567|15-A/G 100021727|64-T/A 100023434|25-T/C 100066346|64-T/C 100066369|51-A/G 100066626|37-G/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6631525|11-C/T 6650677|49-C/T 6650829|66-C/T 6650865|22-G/T 6651274|64-A/G 6651327|26-G/A 6651363|38-T/A 6651684|66-A/G 6652046|31-A/G 6652267|48-T/C 6652284|17-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652529|31-T/C 6652900|9-A/G 6653610|43-G/T 6653665|46-C/T 6653751|12-A/T 6653876|40-A/G 6654005|53-G/A 6654018|46-G/A 6661150|29-C/G 6661536|5-G/A 6664750|33-C/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100103994|12-C/T 100103994|20-G/A 100104021|9-A/G 100015729|18-T/G 100015952|21-T/A 100016302|16-G/A 100016507|10-G/T 100016962|46-C/T 100017543|65-T/C 100018176|18-T/A 100018259|44-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.004291845 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100019881|23-C/A 100019923|11-A/T 100020081|6-T/A 100020349|28-G/T 100022424|20-G/A 100023400|43-G/T 100044682|9-A/G 100044750|30-A/G 100065250|9-G/T 100065326|31-T/A 100065589|31-A/G   
## 0.004329004 0.000000000 0.000000000 0.000000000 0.005050505 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100066526|17-G/A 100091166|12-G/A 100091166|42-A/G 6650613|48-C/T 6650687|41-T/G 6650796|6-C/T 6650803|47-G/C 6651101|36-C/G 6651528|20-A/T 6651771|12-T/C 6651853|15-T/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652025|35-C/T 6652815|7-T/G 6652936|53-A/C 6653177|8-T/G 6653241|40-G/T 6653293|49-G/A 6653307|12-A/G 6653389|28-A/G 6653538|48-T/C 6653579|57-T/A 6653832|7-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6661683|57-A/G 6661685|63-G/A 6661816|48-A/G 6661824|42-G/C 6661850|36-A/T 6661890|47-A/G 6665337|42-A/G 100015757|13-C/T 100016204|33-T/C 100017468|57-G/T 100017967|62-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100018112|46-A/C 100018165|13-C/T 100018718|21-G/A 100019849|5-G/A 100019859|8-G/A 100022136|24-T/C 100022312|53-T/C 100045521|11-T/G 100065432|12-T/G 100065536|20-G/A 100066606|52-G/T   
## 0.005025126 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100082316|6-G/A 100082368|14-T/G 100097022|6-T/C 100108129|36-G/A 6631225|7-T/C 6631997|14-C/T 6650612|10-C/T 6650648|12-C/G 6651035|6-G/A 6651242|13-G/A 6651289|37-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651290|54-T/A 6651373|58-C/T 6651393|29-G/A 6651401|31-A/G 6651427|13-G/A 6651437|43-G/C 6651445|36-G/T 6651476|13-C/T 6651646|25-A/G 6651749|48-G/A 6651841|8-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652088|32-C/T 6652192|52-C/A 6652260|63-T/C 6652326|50-G/A 6652369|31-T/C 6652422|33-T/C 6652547|9-G/T 6652893|32-T/A 6652909|24-T/G 6652955|18-G/C 6653017|55-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004444444 0.000000000 0.000000000 0.000000000 0.000000000 0.004464286   
## 6653103|52-T/G 6653677|36-T/C 6653708|16-C/G 6653903|37-A/G 6653934|25-C/T 6654040|14-T/C 6654091|9-T/C 6657832|39-T/C 6661183|41-T/C 6661274|44-G/C 6661675|22-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6663998|37-C/T 6664011|37-G/C 100016463|53-T/C 100016812|38-G/A 100017567|49-A/C 100017961|50-G/T 100018143|16-G/A 100019099|54-T/G 100019383|33-G/T 100019940|39-C/T 100020427|36-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004166667 0.000000000 0.000000000   
## 100020660|8-T/A 100020677|22-A/G 100021361|48-T/C 100021511|43-C/T 100021828|33-C/A 100022057|11-A/G 100022783|26-C/T 100064616|40-A/G 100065171|45-C/G 100065966|15-C/G 100082527|51-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100082585|40-G/A 100106949|10-G/A 100117044|51-G/C 6650418|9-G/T 6650423|29-A/G 6650818|67-C/T 6651153|49-G/T 6651180|65-A/T 6651287|48-A/C 6651447|19-T/C 6651655|40-A/G   
## 0.000000000 0.009345794 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651717|7-T/C 6651971|61-A/G 6651981|50-T/G 6652195|35-T/C 6652270|30-C/T 6652411|8-G/A 6652419|17-C/T 6652451|65-G/A 6652920|22-G/A 6653067|56-T/C 6653377|17-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653583|28-T/C 6653636|14-A/G 6653697|13-T/C 6653731|66-C/T 6653767|20-G/C 6653770|20-C/G 6653784|35-T/C 6653810|62-C/A 6653854|42-T/C 6653892|54-G/A 6653910|50-T/C   
## 0.004830918 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6654022|30-A/G 6661470|52-C/A 100066269|13-T/C 6662979|27-T/C 6664013|56-T/C 6664771|32-C/T 6665036|59-T/C 100015387|20-A/C 100016289|59-C/A 100017196|51-G/T 100017527|6-T/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100017670|46-C/A 100018265|14-C/T 100018491|67-A/C 100019232|26-T/C 100019318|16-T/A 100019703|50-G/A 100019708|6-A/G 100019897|65-G/A 100020477|33-C/T 100022633|31-A/G 100023423|28-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004115226 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100064644|53-C/T 100065127|11-C/T 100082124|16-C/G 6632526|27-G/T 6650445|31-C/T 6650584|38-A/G 6650848|20-G/A 6651173|50-C/A 6651298|24-T/G 6651530|41-T/C 6651782|31-G/A   
## 0.000000000 0.000000000 0.000000000 0.008733624 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651907|9-T/C 6652024|30-A/G 6652131|34-G/A 6652159|67-C/T 6652177|21-C/T 6652210|27-C/A 6652401|28-T/A 6652416|68-C/G 6652713|26-G/C 6652866|10-G/A 6652983|43-C/A   
## 0.000000000 0.000000000 0.004739336 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653039|43-G/C 6653044|17-A/G 6653092|18-T/C 6653202|68-T/A 6653253|13-C/G 6653255|39-G/T 6653445|25-C/G 6653487|29-C/T 6653527|21-G/A 6653922|36-T/C 6653930|13-A/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6654013|57-T/G 6657669|38-C/T 6658619|38-A/G 6661144|14-T/C 6661228|61-G/A 6661239|28-A/G 6661757|61-G/A 6661837|5-T/C 6663958|42-G/C 6664017|22-C/T 6665345|60-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.005617978 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6665563|37-A/C 6665563|41-G/A 6665563|7-C/T 6666102|24-A/G 100015848|14-C/A 100016751|21-G/A 100017832|10-T/C 100017856|21-A/G 100018301|7-A/G 100019450|10-C/A 100019818|16-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.008064516   
## 100019983|13-A/G 100020502|50-G/A 100020602|47-A/G 100065169|68-T/C 100066267|15-G/A 100066657|20-C/G 6632946|54-T/A 6650395|54-T/C 6650450|36-T/C 6650539|5-T/C 6650675|13-G/T   
## 0.008510638 0.000000000 0.000000000 0.000000000 0.004484305 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6650760|49-T/G 6650770|63-T/C 6650778|15-A/G 6650888|42-T/A 6650948|22-G/A 6651067|68-T/C 6651104|14-T/C 6651269|64-A/G 6651380|66-C/A 6651460|39-T/A 6651469|31-G/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651565|25-G/T 6651594|47-T/G 6651714|59-A/T 6651809|19-T/C 6651814|64-A/G 6652119|10-C/T 6652183|53-C/T 6652218|58-G/A 6652272|46-C/A 6652443|56-C/T 6652587|38-G/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.004310345 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652614|24-T/A 6652643|8-A/T 6652647|54-C/A 6652695|37-C/T 6652702|52-A/C 6652729|55-C/G 6652886|48-T/A 6653028|14-A/G 6653065|44-C/T 6653124|7-G/C 6653205|17-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.007874016   
## 6653210|45-C/A 6653524|37-T/G 6653532|60-C/T 6653787|34-A/G 6653818|55-C/T 6653820|23-G/A 6653825|25-G/A 6653908|59-C/G 6653938|33-G/A 6656975|12-C/G 6658434|32-G/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.006802721 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6661131|30-C/A 6661170|60-C/T 6661460|63-C/T 100082330|10-C/T 6661516|30-G/T 6661542|10-A/G 6661650|9-G/A 6661787|54-G/C 6661807|10-G/A 6663931|44-A/G 6663966|33-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6664887|16-T/G 6665234|5-T/A 6666170|37-C/T 100016216|6-C/A 100016431|13-A/G 100016980|14-G/C 100017035|18-A/G 100018089|20-C/A 100018299|18-A/G 100019103|66-G/A 100020260|22-G/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.005988024 0.000000000 0.000000000 0.000000000 0.000000000   
## 100020593|29-A/G 100021233|9-G/T 100022402|38-T/A 100022743|53-G/A 100064690|24-G/C 100065349|19-G/C 100065841|23-T/C 100074065|11-G/A 6650412|48-C/T 6650459|40-G/A 6650487|15-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6650510|49-G/C 6650571|53-C/T 6650575|33-C/T 6650657|31-A/G 6650727|33-T/A 6650764|18-A/G 6650786|30-G/A 6650877|51-A/G 6650982|52-G/T 6650992|26-T/G 6651041|46-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651162|25-G/T 6651244|31-C/A 6651284|8-G/C 6651398|18-G/A 6651485|12-A/G 6651517|35-T/G 6651527|40-C/T 6651546|39-T/C 6651644|49-G/A 6651663|43-G/C 6651671|42-C/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651691|10-G/A 6651700|17-C/A 6651734|47-T/C 6651746|20-C/T 6651800|11-A/G 6651813|5-C/T 6651896|64-A/G 6651912|26-C/G 6651917|68-G/T 6652038|34-C/A 6652059|20-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652081|56-C/G 6652085|6-G/A 6652121|43-A/T 6652134|47-G/C 6652186|30-C/T 6652189|13-A/G 6652281|62-C/G 6652285|54-C/T 6652290|29-T/C 6652304|61-G/T 6652432|55-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652503|20-A/G 6652505|16-A/C 6652521|39-C/T 6652525|37-G/T 6652601|21-T/C 6652602|25-G/C 6652606|48-T/C 6652624|28-T/C 6652668|15-G/C 6652670|16-C/G 6652721|10-T/A   
## 0.000000000 0.008403361 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652733|37-A/G 6652745|53-A/G 6652752|31-C/T 6652791|49-C/A 6652818|11-T/C 6652862|15-A/G 6652881|22-C/A 6652972|10-T/C 6652998|52-A/T 6652999|57-A/G 6653082|48-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653098|9-A/G 6653162|29-G/A 6653274|28-A/G 6653325|64-G/C 6653332|57-G/A 6653357|42-C/T 6653362|53-G/C 6653412|42-A/G 6653426|18-C/T 6653440|10-T/C 6653465|26-C/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653468|58-T/C 6653470|47-G/C 6653503|52-C/T 6653589|18-G/A 6653681|55-A/G 6653716|66-G/A 6653721|50-T/C 6653756|39-T/C 6653768|57-T/C 6653772|52-C/T 6653912|41-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653970|10-G/T 6654035|9-A/T 6654089|34-G/C 6657074|8-C/T 6657427|36-T/G 6658142|19-G/A 6658487|31-A/T 6658567|11-A/G 6661106|67-C/A 6661340|59-C/T 6661404|52-G/C   
## 0.004219409 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6661465|25-C/G 6661493|15-T/C 6661592|37-C/T 6661602|55-A/G 6661729|38-A/G 6661755|5-T/C 6661849|5-T/A 6662667|9-T/C 6663069|39-G/A 6663912|29-A/G 6663945|17-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004424779 0.000000000 0.000000000 0.000000000   
## 6665239|6-A/G 6665353|11-A/G 6665974|11-A/T 6666103|68-G/A 100016182|32-A/G 100017836|20-G/A 100017869|6-A/G 100018411|68-A/C 100020222|50-C/G 100021008|5-T/G 100021734|34-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100021842|6-T/A 100045232|8-G/C 100065195|59-A/G 100074076|12-A/C 100114674|53-G/A 6650380|13-C/T 6650404|10-C/T 6650422|10-A/C 6650471|64-T/C 6650500|18-G/C 6650515|50-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6650537|13-C/T 6650542|10-G/A 6650554|41-G/A 6650556|9-G/C 6650615|12-C/T 6650633|41-A/C 6650636|55-A/G 6650715|51-A/G 6650784|41-A/G 6650806|54-A/G 6650812|44-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6650885|45-G/T 6650890|7-G/A 6650891|27-C/G 6650939|41-A/G 6651045|37-G/C 6651063|37-A/C 6651127|50-C/G 6651189|65-G/A 6651213|10-C/G 6651259|15-G/A 6651305|62-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651312|67-T/C 6651314|20-C/T 6651471|5-C/A 6651479|37-T/G 6651523|45-A/T 6651524|18-G/A 6651611|23-A/T 6651617|38-A/C 6651627|10-C/A 6651680|16-T/G 6651686|18-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651990|27-G/T 6652031|21-T/C 6652068|30-T/C 6652123|48-C/T 6652141|65-C/T 6652156|37-G/T 6652188|11-A/G 6652217|66-T/A 6652220|47-G/A 6652222|50-C/T 6652329|66-G/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004739336 0.005586592 0.000000000   
## 6652364|41-C/T 6652450|9-A/C 6652454|59-C/T 6652470|43-C/T 6652506|53-A/T 6652539|13-G/A 6652561|39-T/C 6652572|11-T/G 6652637|54-T/C 6652648|60-T/A 6652659|15-A/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652665|12-A/G 6652728|28-T/C 6652751|58-A/G 6652774|48-G/A 6652817|30-A/G 6652845|15-G/A 6652939|61-C/T 6652947|66-T/A 6653004|32-T/G 6653011|14-C/T 6653170|45-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653174|64-A/C 6653291|22-A/G 6653324|46-G/A 6653415|50-C/G 6653489|12-A/C 6653514|8-A/G 6653535|20-A/T 6653594|40-G/A 6653646|49-A/T 6653674|54-T/C 6653683|31-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653750|55-T/C 6653771|10-A/G 6653779|21-T/C 6653822|27-G/A 6653827|15-A/G 6653858|29-G/T 6653928|36-T/A 6653969|26-C/T 6654051|34-T/C 6654056|9-C/T 6654078|12-T/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6657388|11-G/T 6657512|7-T/A 6657941|41-C/T 6658094|46-C/A 6658571|22-C/A 6658640|12-C/T 6661287|22-A/G 6661315|34-C/A 6661316|17-T/A 6661420|51-G/A 6661453|6-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6661468|17-G/T 6661489|62-C/T 6661552|5-G/T 6661577|44-A/C 6661601|15-G/A 6661629|40-G/A 6661651|60-G/A 6661703|29-A/G 6661728|35-C/T 6662799|24-G/T 6662820|22-T/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.007042254 0.000000000 0.000000000   
## 6662890|34-A/G 6662898|11-T/C 6662977|22-A/G 6664083|6-T/C 6664294|44-T/A 6664720|7-C/A 6665218|24-G/A 6665351|57-C/G 100109477|37-C/T 6665629|41-C/T 6665821|31-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.005464481 0.000000000 0.000000000   
## 100016377|14-C/T 100016728|8-C/G 100017376|68-T/C 100018451|6-C/T 100019918|66-C/T 100022411|61-C/G 100064620|27-T/G 100064811|7-G/A 100065350|20-A/G 100109953|9-A/G 6650460|21-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6650519|57-T/C 6650579|51-T/C 6650580|37-G/A 6650607|66-G/A 6650671|45-C/A 6650689|52-T/A 6650703|19-G/A 6650815|7-A/G 6650944|60-T/A 6650965|12-G/T 6651031|38-C/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651069|41-G/C 6651089|58-C/G 6651139|39-G/A 6651355|22-C/T 6651367|34-G/T 6651487|9-A/G 6651578|26-T/C 6651593|32-G/C 6651619|40-T/C 6651620|38-C/T 6651675|34-C/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651806|49-A/C 6651821|15-A/G 6651825|51-A/T 6651968|21-G/A 6651983|9-A/T 6652057|5-C/T 6652073|37-A/C 6652074|10-G/A 6652115|60-T/G 6652197|23-A/G 6652244|39-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652249|29-C/T 6652338|5-C/T 6652392|7-T/C 6652466|57-C/T 6652514|66-T/C 6652554|50-A/G 6652556|53-T/C 6652589|8-C/A 6652749|25-T/C 6652753|11-T/G 6652776|45-A/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652806|6-C/T 6652834|26-T/C 6652885|65-C/G 6652929|66-T/A 6652935|47-C/T 6653073|5-G/T 6653088|16-G/A 6653093|44-G/A 6653104|55-C/T 6653436|11-T/C 6653497|6-C/T   
## 0.000000000 0.000000000 0.004464286 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653639|65-G/T 6653645|43-C/G 6653769|16-G/C 6653927|44-C/T 6653953|41-C/T 6653987|61-A/G 6653993|15-A/G 6654009|23-C/T 6656879|21-T/C 6656932|34-C/G 6657077|25-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6657152|47-T/C 6657200|7-T/C 6657228|8-C/T 6657447|9-A/T 6657510|13-A/G 6657518|14-A/C 6657616|11-A/G 6657889|17-C/G 6657989|13-T/G 6657992|32-T/C 6658007|29-T/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.006060606 0.000000000 0.000000000 0.000000000 0.000000000   
## 6658058|7-C/G 6658330|11-C/G 6658349|12-A/C 6658401|16-G/T 6658424|11-A/T 6658451|54-A/G 6658473|36-A/C 6658548|12-C/A 6658667|17-A/G 6661128|54-T/A 6661132|53-C/T   
## 0.000000000 0.004672897 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.006622517 0.000000000 0.000000000   
## 6661145|48-C/T 6661169|16-A/C 6661418|24-T/G 6661447|57-G/A 6661551|43-A/T 6661606|48-G/C 6661621|22-T/C 6661667|62-A/G 6661716|24-C/T 6661770|21-C/T 6662676|12-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6662737|6-A/T 6662747|22-A/G 6662778|8-A/G 6662831|7-G/C 6662962|22-T/G 6662984|35-A/G 6663913|23-G/A 6663996|47-G/T 6664080|40-C/A 6664712|24-G/A 6665849|24-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6665849|27-A/G 100019306|41-G/C 100023120|53-T/C 100045071|11-G/T 100073787|12-T/C 100073808|38-G/A 100082396|45-C/T 100082676|61-G/A 6650780|18-C/T 6651956|47-C/T 6652018|68-G/A   
## 0.000000000 0.000000000 0.000000000 0.004608295 0.000000000 0.000000000 0.000000000 0.000000000 0.013157895 0.000000000 0.000000000   
## 6652299|52-G/C 6652898|20-T/A 6653146|40-G/A 6657342|25-G/C 6657451|13-T/C 6657720|20-T/G 6657882|21-C/T 6658021|6-G/C 6658104|7-T/G 6658212|12-A/G 6658246|8-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6661212|11-A/C 6661231|65-C/G 6661373|56-C/G 6661472|51-T/C 6662632|29-C/A 6662644|9-A/C 6662718|14-A/G 6662788|5-C/G 6663015|45-C/G 6663056|27-G/A 6663101|48-T/C   
## 0.000000000 0.000000000 0.011363636 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6663942|12-C/G 6663943|19-C/G 6664030|20-T/A 6664734|37-C/T 6665050|6-C/T 6665686|46-A/G 100064830|15-G/C 100073523|7-G/T 100073850|23-A/C 100074130|14-T/C 100085916|27-G/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100085918|17-C/T 100093520|12-T/C 100102104|19-G/T 100104847|9-C/T 100107045|42-G/A 100111102|5-T/C 100118833|7-G/A 100118214|9-G/A 6661395|67-G/A 6661549|61-G/A 6664299|8-G/C   
## 0.007874016 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.005617978 0.000000000   
## 6661899|30-T/C 100117994|5-C/A 100118292|6-C/T 100120255|8-G/T 100122091|12-G/A 6658340|10-T/A 6662816|5-C/A 6662936|6-T/A 6662936|8-A/G 6662964|8-C/T 6662966|17-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.006329114   
## 6664885|14-G/A 6661031|8-G/A 100066612|18-A/G 6652306|13-T/C 100085941|14-G/T 100018734|36-T/A 6661163|12-C/T 100065635|32-C/T 6661774|57-G/A 100082623|35-G/A 100065110|61-C/T   
## 0.000000000 0.000000000 0.000000000 0.011764706 0.000000000 0.008333333 0.000000000 0.000000000 0.006622517 0.011494253 0.000000000   
## 6661113|35-G/T 100118834|24-T/A 100065734|46-A/C 6663988|26-G/A 6661432|6-G/T 6661894|14-C/T 100025027|41-A/T 100065037|22-A/G 6661398|17-C/G 6661689|5-A/G 6664901|14-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6661325|52-G/A 100024800|55-T/C 6661569|21-G/T 100015330|20-C/A 100017807|41-C/T 100021430|18-A/C 100021922|61-T/G 100024081|21-C/T 100044596|39-C/T 6651341|31-A/G 6652981|11-C/A   
## 0.000000000 0.005988024 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100065893|67-C/T 100015238|36-T/C 100015491|32-C/T 100015884|7-G/A 100019050|23-G/A 100022813|55-A/C 6653072|57-C/T 100016062|38-A/G 100017135|23-C/G 100021766|9-T/A 100022076|54-G/A   
## 0.005988024 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004830918 0.000000000 0.000000000 0.000000000   
## 6661377|53-C/T 100015975|43-A/T 100016187|49-G/C 100024150|52-T/G 100018712|5-A/C 100021390|26-A/G 100045683|24-T/C 6661840|10-C/T 100016255|15-T/A 100020380|45-T/G 100021355|11-G/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100021470|64-A/G 100023138|54-G/A 100023921|57-C/T 6650819|43-C/T 6653757|13-T/G 100015309|36-C/A 100015511|36-A/G 100015825|32-G/T 100016469|15-C/A 100019560|67-A/T 100021988|8-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100022638|31-A/T 100022674|60-A/G 100023456|47-T/C 100023464|21-G/T 100023506|63-G/C 100121198|44-C/T 6664022|46-T/C 100017302|21-A/C 100017884|42-T/C 100020887|11-G/A 100022100|32-C/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.012820513 0.000000000 0.000000000 0.000000000 0.000000000   
## 100022978|31-G/T 100064951|7-C/T 100108048|25-G/C 6653000|22-C/T 6661699|44-C/T 100015643|21-A/G 100016494|59-G/A 100017300|12-G/T 100017465|6-C/A 100019558|59-A/C 100021942|23-G/A   
## 0.004587156 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100022249|52-T/C 100022694|55-C/G 100022788|12-C/T 100101046|61-C/A 6652314|37-T/C 100015332|7-C/A 100015389|56-T/A 100015557|20-C/G 100017329|58-G/T 100018963|60-A/C 100019082|25-A/G   
## 0.000000000 0.000000000 0.006578947 0.004524887 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100019182|47-T/A 100020256|17-T/G 100020398|8-A/C 100021013|48-A/T 100021289|8-A/G 100023421|10-T/G 6653492|18-A/G 6661385|64-G/C 6661806|68-G/A 100017094|36-C/T 100017357|22-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.013513514 0.000000000 0.000000000   
## 100018276|13-A/G 100018426|49-A/T 100018952|47-A/T 100021643|42-A/T 100022068|8-T/C 100022755|51-G/A 100066666|24-G/A 6661519|31-A/T 100015745|7-C/T 100018424|55-T/A 100021037|43-A/C   
## 0.000000000 0.000000000 0.004219409 0.000000000 0.000000000 0.000000000 0.004484305 0.000000000 0.000000000 0.000000000 0.000000000   
## 100021847|31-C/T 100022744|13-G/C 100023381|30-A/G 100023472|27-C/T 100023477|8-T/G 100024933|20-T/G 6651050|34-T/C 6652421|32-C/G 100082161|17-G/C 6661817|22-G/A 6665065|47-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.005076142 0.000000000 0.008264463 0.000000000 0.000000000   
## 6666515|7-G/A 100015276|20-C/T 100016849|33-A/G 100018157|49-A/G 100018512|6-C/A 100019166|40-G/A 100019599|68-C/T 100020395|68-C/T 100020496|40-T/C 100022054|30-T/C 100022238|35-T/C   
## 0.000000000 0.000000000 0.000000000 0.004385965 0.000000000 0.000000000 0.004504505 0.004504505 0.000000000 0.000000000 0.000000000   
## 100022761|21-C/T 100064714|31-A/C 100082512|27-G/T 6635566|26-T/G 6651319|63-C/T 100101042|27-A/G 100015522|21-A/T 100015635|48-A/C 100016324|17-G/C 100017167|42-A/G 100017270|46-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100018878|51-C/T 100019810|41-A/G 100020422|49-T/G 100021781|44-T/A 100022052|36-T/A 100022732|37-A/G 100023771|42-A/T 100064904|9-C/T 100066133|22-A/T 6635226|21-A/G 6661769|64-T/A   
## 0.004830918 0.004405286 0.004672897 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004237288   
## 100015503|66-A/T 100015669|26-A/G 100016926|66-A/G 100017163|47-A/G 100017930|44-G/A 100018643|57-G/A 100019627|11-G/A 100019775|26-T/C 100020011|13-C/A 100020180|30-T/A 100020794|35-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.004830918 0.000000000 0.000000000 0.012048193 0.000000000 0.000000000 0.005747126   
## 100022441|55-A/G 100065577|55-T/C 100066375|31-C/T 100101063|14-G/A 6634311|8-T/C 6650564|10-C/G 6651449|21-G/A 100015590|56-T/C 100015813|59-T/A 100015865|6-C/T 100015966|35-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100016299|67-G/A 100017046|59-A/G 100017306|20-C/T 100017681|59-G/A 100018541|45-C/T 100019001|52-T/C 100019248|51-C/A 100019357|10-A/C 100020167|8-T/C 100020584|49-G/A 100020830|34-G/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100021518|64-T/G 100023323|17-A/G 100065274|22-T/A 100066055|6-T/C 6652294|28-T/C 6661350|27-G/A 100015979|10-G/A 100016232|12-A/G 100016804|11-G/T 100016918|64-T/A 100017355|38-C/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100018239|64-C/A 100018653|43-T/C 100019075|38-G/C 100020739|29-A/G 100022196|19-G/A 100022506|24-C/G 100022716|15-T/C 100065001|58-T/A 6661682|7-T/C 100016459|9-T/C 100016800|17-T/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004329004 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100016857|32-A/T 100016901|25-G/A 100017304|40-T/G 100018018|24-G/T 100018056|56-G/C 100018188|36-G/T 100018521|14-G/A 100019406|13-G/A 100019617|68-C/A 100020206|45-C/G 100021877|23-T/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100022598|56-C/T 100022715|29-C/T 100022769|37-G/A 100023124|68-T/G 100045390|32-G/A 100064869|18-A/G 100066159|27-C/T 6651348|40-T/G 6651910|25-A/T 6661267|31-G/A 6661407|12-G/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.005025126 0.000000000 0.000000000 0.000000000   
## 6661471|46-G/T 100015328|40-A/C 100015329|5-T/A 100015695|23-C/T 100015994|62-A/T 100016280|42-G/C 100016310|50-G/A 100017976|8-T/G 100018090|15-T/C 100018376|15-G/A 100019811|9-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100019879|32-T/C 100020836|42-T/G 100020897|56-T/C 100020918|25-A/G 100022084|40-A/G 100022253|28-T/C 100022347|11-T/G 100022822|20-C/T 100022863|16-C/G 100064727|32-C/G 100064762|17-A/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100065060|19-C/T 100065198|28-C/T 100065497|6-G/A 100066169|37-C/A 100066413|57-T/G 100066518|25-A/C 6650606|12-A/G 6650782|37-G/A 6651161|26-A/T 6651343|64-C/T 6651987|65-G/C   
## 0.010526316 0.005988024 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652583|9-C/G 6653986|35-G/A 100017405|46-T/C 100018360|48-T/C 100020046|11-T/G 100020184|33-A/T 100020356|17-C/T 100021172|11-C/T 100021739|23-A/G 100022407|43-A/G 100022586|32-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100023347|40-A/G 6630669|54-A/C 6651087|52-A/G 6653823|53-T/C 6661427|45-A/T 6664050|11-T/C 100015339|30-G/A 100015780|53-A/C 100016477|49-C/T 100016846|6-A/G 100017534|5-A/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100018524|64-G/T 100018715|45-A/C 100019637|34-T/C 100019730|38-A/G 100020004|34-G/C 100020093|64-G/T 100020177|61-C/T 100020736|62-T/C 100021876|36-T/C 100022251|18-A/C 100022479|48-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.009433962 0.000000000 0.000000000 0.000000000   
## 100023192|44-C/T 100065374|28-T/A 100065413|68-G/T 100065460|57-T/A 100065786|62-T/C 100065981|32-G/A 100093548|6-T/C 6635925|28-G/A 6651303|15-G/A 6652226|61-A/C 6652595|25-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.004716981 0.000000000 0.011627907 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652880|30-G/A 6653288|5-T/C 6661743|26-G/A 100015258|11-G/A 100015334|11-A/C 100015520|48-T/A 100016206|60-T/G 100016803|55-T/A 100016999|24-T/C 100017691|42-G/C 100018254|14-G/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100018691|53-C/T 100018832|49-T/A 100018836|30-T/A 100018972|63-T/C 100018993|58-G/A 100019968|28-T/C 100019971|65-T/G 100020134|53-C/T 100020237|19-C/T 100020353|50-A/G 100021532|8-T/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100022232|46-T/C 100022564|55-G/A 100064590|10-C/G 100064752|47-G/T 100066482|40-C/G 100066499|21-A/C 100082126|5-A/G 100082673|16-C/G 100118390|28-A/G 100118390|5-C/G 6650749|8-A/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.009009009 0.000000000 0.000000000 0.000000000 0.000000000   
## 6650993|48-A/G 6651187|10-A/T 6652437|24-T/C 6652887|56-G/A 6653102|62-A/C 6653358|49-T/A 6661200|10-A/G 6661277|39-G/A 6661479|25-C/A 6665776|10-G/A 100116183|6-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.004291845 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.007751938   
## 100065388|52-T/C 100015585|60-A/G 100016513|5-C/A 100016711|48-G/A 100017104|21-C/A 100017773|59-C/T 100017895|25-A/T 100018069|40-A/G 100018279|30-C/A 100018386|10-G/C 100018698|26-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.009090909 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100021026|29-A/G 100021644|9-C/A 100022215|30-A/G 100023511|29-G/A 100065011|9-G/T 100065481|45-G/C 100065665|18-T/G 100082041|35-T/G 100082540|39-C/T 6635352|11-C/T 6651637|46-A/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004444444 0.000000000 0.000000000 0.000000000   
## 6652697|44-G/A 6652848|23-G/T 6661188|24-G/C 6661506|68-A/T 6661846|36-C/G 100121512|16-T/C 100015223|24-C/T 100015336|36-G/A 100016018|57-G/C 100016257|18-G/A 100016363|39-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100016533|62-C/T 100017334|62-C/T 100017905|42-A/G 100018782|32-C/A 100018840|12-A/G 100018918|28-G/A 100018973|26-T/G 100019583|32-G/T 100020635|19-T/C 100020952|67-A/G 100021607|12-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100021759|51-G/A 100022391|27-T/C 100022668|57-T/C 100065738|47-G/C 100066164|11-G/A 100066550|5-T/C 6633324|49-T/G 6634529|30-T/C 6651763|8-A/T 6651994|28-A/G 6652616|33-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.005617978 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653336|20-T/C 6653857|60-T/A 6661332|57-A/T 6661613|21-G/A 100015558|12-T/G 100016614|13-A/G 100016893|9-G/A 100016974|14-T/C 100017016|14-G/C 100018076|32-A/G 100019206|6-T/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100019217|46-A/T 100019384|38-C/T 100019646|24-T/A 100019874|10-C/G 100019964|12-C/A 100020293|37-A/G 100020842|17-G/A 100021693|26-T/C 100022050|68-A/T 100022979|40-A/G 100023492|66-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100045668|41-G/A 100065160|26-C/T 100066259|47-G/A 6630074|25-T/C 6651026|5-A/G 6651431|37-C/G 6651540|51-T/C 6651708|27-C/T 6652397|25-T/C 6653258|20-A/C 6661295|56-C/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.006134969 0.000000000 0.000000000   
## 100016658|9-C/T 100016823|19-A/C 100017190|25-A/G 100017629|18-T/C 100018573|66-T/A 100019552|33-T/G 100021046|26-A/G 100022548|38-A/C 100065206|29-C/A 100065846|12-T/A 6651279|28-G/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.004219409 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652199|28-G/A 6652400|17-C/T 6652445|11-A/T 6653155|9-C/G 6653256|29-G/A 6661317|35-T/C 6663970|38-G/C 6665305|7-T/C 100015212|40-T/C 100015773|62-T/C 100016229|66-G/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.006172840 0.000000000 0.000000000 0.000000000 0.000000000   
## 100017966|44-G/A 100018540|41-C/G 100019145|8-G/A 100020607|26-G/A 100021569|14-G/A 100023034|23-C/T 100023386|11-T/C 100065690|24-C/G 6650623|27-T/C 6650909|20-C/G 6651336|17-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651419|53-T/C 6652696|7-A/G 6652736|50-T/A 6653280|14-G/T 6653295|57-T/C 6653940|33-C/G 6661206|18-A/G 6661327|42-G/C 6664003|47-C/T 100015464|37-A/T 100015704|41-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.007936508 0.000000000 0.000000000   
## 100016862|45-C/T 100019871|11-C/T 100020987|40-T/C 100021296|8-G/A 100065560|20-C/G 100066263|36-C/T 100066672|61-G/C 100082462|27-A/G 6632122|60-C/T 6650958|39-G/T 6651020|25-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651285|11-A/G 6651625|35-A/G 6651661|21-C/A 6651716|31-A/G 6651796|30-T/G 6651885|10-A/T 6652069|22-A/G 6652117|17-A/G 6652234|42-G/A 6653188|36-T/C 6653368|52-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6661580|47-C/T 6661803|14-T/C 6661812|53-C/T 6661866|32-G/C 100015736|43-G/A 100016141|36-G/A 100017142|64-C/T 100019476|8-T/C 100022055|56-G/A 100022078|12-T/C 100022886|24-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6631211|9-C/T 6651047|34-T/G 6651407|46-C/T 6651481|28-G/C 6652585|52-T/G 6653252|68-G/A 6653882|52-A/T 6653901|21-A/T 6654029|48-A/G 100015720|28-G/T 100016789|20-G/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100016796|38-G/A 100017412|8-A/G 100017613|42-T/G 100017642|45-C/A 100017690|28-G/T 100018660|67-C/T 100020040|40-T/A 100021191|5-G/C 100023009|12-A/G 100065757|7-G/C 100066245|18-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100074042|5-T/C 100082359|43-C/T 6635615|63-A/T 6650495|22-G/C 6650509|12-C/A 6651034|16-A/T 6651369|18-C/G 6651472|63-T/C 6651525|65-T/G 6651657|19-G/A 6651750|54-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652293|6-T/G 6652474|14-G/A 6653662|55-G/C 6661543|6-A/G 100017915|15-G/A 100020329|6-T/C 100021269|67-C/T 100021647|7-C/G 100065434|44-T/G 100091128|19-C/T 6630649|30-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6631485|63-C/T 6634232|23-C/T 6650379|29-C/T 6650507|19-A/C 6650854|20-G/A 6651417|34-C/T 6651649|55-G/A 6651797|46-C/T 6652137|50-T/C 6652171|14-G/C 6652353|59-C/T   
## 0.000000000 0.004255319 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652439|17-A/C 6652481|49-A/G 6652592|44-C/T 6652631|8-T/C 6652759|5-G/C 6653033|21-C/A 6653086|60-T/C 6653403|58-C/G 6653441|17-C/A 6653651|15-A/G 6653652|24-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653717|62-T/A 6653911|22-G/C 6657418|43-C/G 6658319|40-G/A 6661213|21-C/T 6661527|23-T/C 6664003|60-C/T 100017332|29-G/A 100018422|17-T/C 100019803|28-C/T 100020227|22-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100021230|36-G/A 100045732|32-A/G 100065400|55-A/G 100065695|10-T/A 6650641|39-G/C 6650730|37-C/T 6651079|5-A/T 6651096|56-T/C 6651302|27-C/G 6651575|42-A/G 6651609|46-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651712|16-T/C 6651755|6-C/G 6651927|7-C/T 6652423|26-A/G 6653022|23-G/C 6653024|17-C/T 6653143|11-A/G 6653233|66-T/A 6653287|46-C/T 6653308|9-A/G 6653555|27-A/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653600|5-T/C 6653915|45-T/G 6653995|60-T/C 6657836|14-A/G 6661227|16-C/A 6661262|58-G/T 6661434|38-G/T 6661641|45-A/G 6661702|15-A/G 6662581|37-A/T 100114018|47-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.004608295 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100016369|9-A/G 100017864|12-A/C 100018488|65-A/G 100018874|30-C/T 100022833|43-A/C 100045516|20-A/G 100065233|14-C/G 100065518|13-T/G 100065693|58-C/T 100066101|12-T/C 6633196|52-G/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004464286   
## 6633443|50-C/G 6650488|44-T/C 6650661|48-G/C 6650800|48-C/T 6650825|39-G/A 6650845|36-C/T 6650876|20-T/G 6651093|21-T/C 6651267|9-G/A 6651306|19-G/A 6651379|44-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651554|67-T/C 6651736|43-T/C 6651932|30-T/C 6651941|51-C/T 6652116|48-C/T 6652661|48-C/T 6652756|60-T/C 6652829|67-A/G 6653016|28-G/A 6653035|59-T/C 6653400|19-A/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653480|48-C/A 6653764|58-T/G 6654093|42-A/G 6661397|22-T/G 6663931|67-C/G 6663957|68-G/A 6663967|43-G/C 6665630|56-C/T 100017995|7-C/G 100020113|15-A/T 100022566|30-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100044990|7-T/C 100065049|7-G/T 100066339|40-A/G 100082461|32-T/A 6632579|11-G/A 6650828|56-C/T 6650907|12-G/C 6650924|57-A/T 6651078|6-G/A 6651186|45-G/A 6651357|21-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.007751938 0.000000000 0.000000000   
## 6651533|11-T/C 6651835|18-A/G 6651845|5-C/T 6652615|62-G/A 6652654|38-A/G 6652959|31-C/A 6652967|19-C/T 6653003|36-G/C 6653135|53-G/T 6653227|62-A/G 6653345|29-G/T   
## 0.000000000 0.000000000 0.000000000 0.004291845 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653424|16-A/C 6653449|26-T/C 6653581|57-G/C 6653676|29-A/G 6653712|15-T/C 6653723|10-C/T 6653956|18-A/G 6654001|23-C/A 6658504|15-C/A 6658614|43-T/G 6661202|35-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6661234|44-T/C 6661397|27-C/T 6661731|51-C/A 6661793|54-A/G 6663947|19-T/G 6664041|32-A/G 6664042|66-G/A 6664043|13-T/A 100017392|44-T/G 100020618|50-C/T 100022663|33-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6630289|20-G/C 6650619|36-T/C 6650638|22-A/C 6650699|38-T/C 6650728|58-T/C 6650755|23-T/A 6650783|14-G/A 6650849|14-T/C 6650880|67-A/G 6651095|41-C/T 6651245|18-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651292|26-C/G 6651352|20-T/C 6651467|62-G/C 6651557|42-C/T 6651631|26-C/T 6651664|24-T/C 6651688|48-C/T 6651718|35-C/T 6651795|51-C/T 6651923|42-T/C 6651965|39-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652219|19-T/C 6652378|63-C/T 6652434|66-A/C 6652655|53-T/G 6652722|31-C/A 6652830|22-T/C 6652882|43-C/A 6653040|42-C/T 6653271|6-A/G 6653385|63-G/T 6653386|12-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653418|27-T/A 6653450|16-A/G 6653476|17-G/C 6653520|26-A/G 6653763|12-G/A 6653916|15-T/C 6654026|50-T/C 6654061|33-A/G 6657577|47-G/A 6657800|39-C/A 6658145|22-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.010101010 0.000000000   
## 6658508|25-A/G 6661100|58-G/C 6661185|17-G/C 6661209|14-C/T 6661230|12-C/T 6661236|16-T/C 6661314|22-A/C 6661446|29-G/A 6661535|11-G/A 6661559|28-T/C 6661597|46-G/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6661642|45-G/T 6661657|60-G/A 6661731|68-A/G 6661796|25-A/G 6662683|15-T/C 6664747|36-A/C 6665469|54-T/A 6665629|23-C/G 100023210|29-C/A 100065681|26-G/T 100114697|13-C/G   
## 0.000000000 0.000000000 0.004484305 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6630523|63-G/A 6650409|45-T/C 6650528|28-G/T 6650721|49-C/T 6651065|27-G/T 6651098|23-T/C 6651125|47-G/A 6651426|10-G/A 6651605|61-C/A 6651634|10-G/C 6651759|12-C/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651815|20-A/C 6652098|62-G/A 6652125|13-C/T 6652182|12-A/G 6652205|23-G/T 6652340|36-A/G 6652361|22-A/G 6652367|17-C/A 6652519|22-A/T 6652681|7-T/C 6652787|16-C/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653095|8-G/T 6653128|9-G/T 6653131|30-G/A 6653340|41-C/T 6653516|66-C/G 6653855|60-C/A 6654020|41-T/C 6654087|18-G/A 6657400|14-C/T 6658359|12-G/A 6661176|55-C/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6661182|18-C/T 6661371|21-A/G 6661403|66-A/C 100065611|31-A/C 6661497|12-G/A 6661654|59-A/G 6662907|21-A/G 6663946|23-C/G 6665056|53-C/T 6665628|28-C/A 100019769|39-T/C   
## 0.000000000 0.000000000 0.000000000 0.006024096 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.006451613 0.000000000   
## 100082375|66-T/G 100082404|55-T/C 6650592|12-C/A 6651184|37-G/A 6652576|37-G/T 6652672|55-C/T 6653304|23-A/T 6656915|10-G/T 6657307|34-A/T 6657558|38-C/T 6658381|25-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6658521|6-G/C 6661752|23-A/C 6664327|23-G/A 100044751|5-A/G 100085984|13-G/A 100115531|5-T/A 6643578|12-A/G 100106109|11-G/A 100113138|5-T/G 100117994|11-T/A 6662821|6-T/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6664383|8-A/G 6665284|5-C/G 6665328|8-T/A 6665629|20-C/G 100118214|11-C/A 6663102|10-G/A 100021042|56-T/C 100090841|7-C/A 100103683|13-G/A 100103683|6-A/T 100106227|13-C/A   
## 0.000000000 0.004115226 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100106247|9-T/A 100111488|6-C/G 100112338|6-T/G 100114623|5-C/G 6644428|5-T/A 6647555|5-C/A 6648501|8-A/G 6648560|7-T/C 6658337|6-C/G 6664325|9-C/T 6664355|7-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6664406|5-G/T 6664885|10-C/T 6665134|5-A/G 6665147|13-C/T 100065344|49-T/C 6661457|44-C/T 6661867|13-G/A 6661122|26-C/T 100064630|57-A/G 100025554|68-T/A 6658677|32-C/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.006451613 0.000000000 0.000000000 0.000000000 0.007633588 0.000000000 0.000000000   
## 6635413|16-T/A 6661764|43-C/A 6652801|27-G/A 100024646|8-G/C 100066569|63-G/A 6652374|43-T/C 6661449|54-A/C 6661688|9-G/T 6661583|7-C/T 6661219|45-G/A 100016118|67-A/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004901961 0.000000000 0.000000000 0.005050505 0.000000000 0.000000000   
## 100065968|17-C/T 6664008|7-T/G 100019909|40-A/G 100024919|19-A/C 100021772|52-T/C 100066372|27-A/G 100091350|43-A/C 100017975|34-A/G 100045781|34-C/A 6652884|53-G/A 100017252|27-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100017894|53-G/A 100022254|26-T/A 6632275|61-T/C 100065115|49-T/C 100065825|30-T/C 6654008|51-C/T 6653230|18-T/G 100020850|15-T/A 100024608|28-A/G 100065720|36-C/T 100019004|19-T/C   
## 0.000000000 0.000000000 0.004854369 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100022949|21-T/C 100024718|58-G/A 100065076|9-G/C 6650868|53-G/A 100017101|27-T/G 100017766|10-C/A 100019793|62-T/A 100021136|57-G/A 100021706|33-T/C 100025017|58-T/C 6652036|20-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100015261|30-G/A 100015698|55-A/C 100016039|28-T/C 100021704|31-A/T 100021798|6-G/A 100022137|6-T/C 100022883|14-A/G 100023375|24-A/C 100064876|34-G/A 100022317|10-A/G 100065186|8-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653805|57-G/C 100021710|10-A/G 100023305|24-G/A 6634600|17-T/C 6650598|62-C/A 100017818|14-T/G 100020277|67-T/G 100020322|14-C/T 100021252|30-G/A 100022007|39-C/T 100022967|55-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004587156 0.000000000 0.000000000   
## 100023231|52-G/C 100024979|12-A/T 6651448|5-C/A 6661619|36-C/T 100101013|46-C/T 100015916|40-T/G 100019381|29-T/C 100021309|54-A/G 100022531|25-T/C 100022877|17-A/C 100023365|32-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100023869|51-T/A 100066103|5-G/A 100066389|65-G/C 6652703|57-T/C 100019288|33-T/C 100020549|44-T/G 100020551|60-A/T 100023117|6-G/T 100023343|62-G/A 100065070|10-C/T 100119322|60-G/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653215|23-A/C 100015905|30-T/A 100018538|19-A/G 100020139|46-T/C 100020548|9-A/C 100065378|43-C/T 100065666|20-A/T 100065687|58-C/T 6651010|63-C/T 6651023|13-C/T 6651465|19-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004385965 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653507|50-C/G 6661164|56-C/G 100015555|49-G/A 100017215|20-C/T 100018040|51-T/A 100018557|8-A/C 100019185|63-C/G 100019688|44-C/T 100023075|63-C/G 6630180|30-A/G 100015432|27-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100017493|63-A/G 100020399|26-G/A 100020528|67-A/G 100021151|33-C/G 100021753|16-G/A 100021795|51-G/A 100062072|14-A/C 100066634|26-T/A 6661693|17-A/G 100015331|61-T/C 100015609|28-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100017169|13-G/A 100017928|37-T/A 100019505|12-C/A 100020075|44-G/T 100020413|29-G/A 100021373|46-G/A 100021417|26-A/C 100022461|56-A/G 100022969|9-G/A 100023275|19-T/C 100082212|44-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004219409 0.000000000 0.000000000   
## 6652622|54-G/A 6653084|57-C/G 6653710|21-C/T 6653840|32-A/T 100021632|19-T/C 100022984|17-G/C 100064905|26-T/A 100015960|29-G/A 100016761|32-C/T 100017811|61-T/C 100019007|29-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100020970|16-G/A 100065097|13-T/C 6651396|51-T/G 6651430|31-C/T 100015246|12-A/G 100017606|48-T/C 100018953|27-G/C 100019018|13-A/G 100020129|19-G/A 100020404|28-A/G 100020733|17-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.012658228   
## 100021724|12-A/C 100066663|43-G/A 100122660|5-A/G 6630550|32-T/C 6652105|37-A/G 100015837|30-T/C 100016214|35-G/T 100017908|21-G/A 100019267|32-G/A 100023141|5-C/T 100023174|41-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100064755|8-G/A 6651656|34-G/A 6651767|59-G/C 6664728|67-C/T 100018065|63-T/A 100019510|9-G/A 100019632|22-T/C 100019754|7-A/T 100020251|60-G/A 100021712|18-T/A 100044571|14-T/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.007299270 0.000000000 0.000000000 0.000000000 0.004347826 0.000000000 0.000000000   
## 6661691|15-C/T 6663917|15-C/T 100018085|21-A/G 100019876|24-A/C 100020554|42-G/T 100022262|60-C/A 100023321|57-A/G 100065480|65-T/A 6652163|42-T/G 6661278|34-C/G 6661299|21-G/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100016113|5-T/A 100018753|18-C/A 100022995|26-G/A 100045005|36-T/A 100065425|18-T/G 100065813|42-A/C 100066450|34-C/G 6652607|6-A/G 6653544|67-T/C 6661463|59-T/G 6661534|24-C/T   
## 0.000000000 0.000000000 0.000000000 0.008333333 0.000000000 0.000000000 0.009132420 0.000000000 0.000000000 0.000000000 0.000000000   
## 100020053|13-A/T 100020534|56-C/G 100020747|66-T/A 100022664|19-A/G 100023314|12-C/T 100024345|29-C/T 100065655|8-A/T 100082306|16-G/C 6632614|14-G/C 6650544|61-G/A 6661521|5-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6661754|5-A/T 100017623|23-C/T 100019111|65-T/A 100020626|26-A/C 100022838|5-C/T 6661655|44-C/A 100015424|32-C/A 100017638|47-T/C 100019862|5-A/G 100064626|46-C/T 100066576|33-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100082421|35-G/T 100082421|56-A/T 6661595|45-G/A 100018565|14-C/T 100019547|16-A/T 100021316|68-A/T 100066021|13-T/C 100066577|66-T/C 6635995|53-T/G 6650794|31-T/C 6651294|52-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6661643|39-A/C 6665642|53-T/C 100017091|53-T/C 100018288|5-C/T 100019411|13-C/T 100022970|53-A/G 100044935|38-C/G 100065133|26-G/A 100065604|17-G/A 6653270|12-C/T 100082437|5-G/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.004878049 0.000000000 0.004201681 0.000000000 0.000000000 0.000000000 0.000000000   
## 100017079|68-T/A 100018306|21-T/A 100065207|61-C/A 6651674|58-G/A 6661762|25-C/T 100016541|14-A/T 100019240|64-C/A 100022760|39-A/C 6661631|14-G/T 100015984|25-C/T 100020169|39-T/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100020171|37-C/T 100020514|46-G/A 100093365|13-T/C 6631375|67-A/T 6651160|63-T/G 6651417|40-A/G 6653272|47-T/C 6661637|58-G/T 6661875|62-G/A 100016327|11-G/T 100017411|17-C/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.016260163 0.000000000 0.000000000 0.000000000   
## 100021938|40-C/A 100104022|29-G/C 6653086|61-G/A 6654063|52-T/C 6661270|57-C/T 6661413|37-C/T 6661571|64-G/A 6662928|6-G/T 6665563|11-G/C 100015347|8-A/G 100015697|17-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6630379|34-A/G 6651111|37-G/A 6651135|63-T/A 6652080|40-C/G 6653891|42-G/A 6661255|43-T/G 6661262|56-A/G 6661441|11-A/G 100019678|23-G/T 100065386|6-G/C 100082362|41-C/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.008658009   
## 100119892|9-C/T 6650706|34-C/G 6651084|9-T/C 6652828|42-G/A 6653640|66-C/T 6661213|29-A/C 6661501|61-G/T 100020312|34-A/G 100066078|57-C/T 6651216|56-G/C 6651663|16-T/G   
## 0.000000000 0.004566210 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652291|30-C/A 6661623|16-C/T 6664064|11-C/A 100019069|65-C/T 6629913|31-T/G 6650658|32-T/C 6651643|7-G/A 6651651|36-T/C 6652652|32-C/T 6652781|24-G/A 6652781|64-C/G   
## 0.000000000 0.000000000 0.000000000 0.006756757 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652958|54-G/C 6661185|61-C/T 6661218|12-C/T 6661232|58-C/T 6662683|28-G/C 6662714|21-A/C 6663024|21-C/T 100016570|44-C/T 100017965|14-G/A 100018649|23-G/A 100021210|28-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004878049 0.000000000 0.000000000   
## 100044629|5-T/A 100065997|37-G/A 100066075|25-C/G 100119599|31-T/C 6633592|39-A/T 6650534|49-T/C 6650535|67-A/T 6651337|9-A/G 6653918|11-A/G 6657564|24-C/T 6661126|11-C/T   
## 0.007812500 0.000000000 0.000000000 0.000000000 0.000000000 0.012903226 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6661428|5-C/T 6661666|46-C/T 6661783|8-T/C 6661798|20-C/T 6661798|28-T/C 6661836|10-G/A 6661836|20-G/C 6661863|56-C/T 6662849|35-T/C 6665679|46-T/G 100093359|29-C/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6629858|37-A/T 6643954|6-G/T 6652019|59-G/C 6652746|56-G/T 6652810|45-C/G 6653160|44-G/A 6653239|27-C/T 6653352|54-C/G 6653632|19-G/A 6662822|7-G/A 6664724|62-G/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.008264463   
## 100044710|9-T/G 100093660|28-C/A 6633718|59-C/T 6641748|42-C/A 6658299|7-T/C 6661450|36-G/A 6643586|10-T/G 6643586|9-C/A 6648203|14-A/T 6664350|5-C/T 100106226|9-C/A   
## 0.004166667 0.000000000 0.000000000 0.000000000 0.006535948 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100111464|9-T/C 6643578|11-A/T 6664414|23-C/A 6664432|8-G/T 6643814|11-C/G 6643814|5-G/A 100100648|8-G/T 100103657|7-G/C 100106110|9-A/G 100106239|8-T/G 100109437|5-C/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100109437|9-C/G 100110529|5-C/T 100111487|5-T/G 100122090|8-T/A 6649192|5-T/C 6657874|5-G/C 6658144|18-A/T 6662919|11-A/C 6663018|25-T/C 6664273|5-C/A 6664306|8-C/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6664893|38-G/C 6664910|11-C/G 6665153|7-A/G 100082484|50-G/T 100118470|9-C/T 6664010|54-C/T 100046106|24-G/T 6666102|8-G/A 6657032|15-C/T 6665215|57-C/T 100018359|44-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100023139|68-G/T 6664085|47-C/T 6661211|58-C/T 100066559|31-T/C 6663985|50-C/T 6665628|45-T/C 100097039|23-C/G 6665040|44-A/G 100093411|9-A/C 100093413|26-G/C 6634480|31-T/A   
## 0.000000000 0.000000000 0.006250000 0.000000000 0.005586592 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100065820|27-T/C 100065626|5-A/C 100017456|5-A/C 100065031|12-G/A 100090339|7-T/C 6654096|11-C/A 100045278|30-G/C 6650722|8-G/C 100023932|52-G/T 6661186|27-A/G 100066349|48-C/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.005464481 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6664781|12-G/A 100018124|53-C/G 100064999|21-G/A 100074314|17-G/A 6661474|58-C/G 6664089|39-C/A 100074315|18-C/T 100109510|37-A/G 100106299|29-A/C 6652532|17-A/G 6666146|37-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100020687|19-G/A 100017102|43-A/G 100016103|11-C/T 100016936|24-G/C 100065009|15-G/C 100021792|22-G/A 100065064|48-C/T 6651486|23-C/A 100022395|5-G/T 6635620|7-T/G 100021158|56-G/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100024001|29-C/A 100065225|30-T/C 100065766|32-C/A 100065871|7-G/C 6657554|17-A/G 100021381|48-A/G 100065073|30-T/C 100065186|6-A/G 100082387|67-G/T 100022890|66-G/A 100023224|41-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100066151|44-C/A 100065712|39-A/G 100016548|22-A/C 100018316|52-G/A 100018669|51-A/G 100020096|10-G/A 100021832|59-T/C 100045940|24-C/A 100066650|24-A/G 100045116|6-C/T 100112452|57-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653883|52-C/G 100021186|32-G/C 100021930|67-G/A 100065300|66-G/T 100082101|62-A/G 100119315|9-G/T 6650840|6-C/G 6664036|6-A/T 100015791|35-A/G 100021993|35-A/T 100065071|26-C/T   
## 0.000000000 0.000000000 0.005952381 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100106305|20-G/C 100020586|49-T/G 100022366|24-T/C 100022982|18-T/C 100102365|9-C/G 100016200|62-T/G 100017620|16-C/T 100018736|57-T/C 100020340|6-T/C 100066082|8-G/T 6663098|31-C/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100018726|57-G/T 100019037|42-G/A 100021366|54-C/T 100022220|45-A/G 100066146|14-T/C 100066266|57-C/G 100066574|19-T/C 100016560|7-T/C 100066037|49-C/G 100121195|35-C/G 100018616|49-T/G   
## 0.000000000 0.000000000 0.008620690 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100066663|58-T/C 100118142|5-T/C 6665806|57-G/A 100018844|30-C/T 100091301|63-G/T 100096922|11-G/T 6651543|26-C/T 100016510|41-T/A 100018353|22-G/T 100019853|68-A/T 100021078|39-A/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100021925|13-A/G 100065479|51-A/G 100066412|14-T/C 100091301|22-C/G 100019195|66-T/A 100023208|34-G/A 100065057|21-C/T 100065426|35-C/A 100073631|7-G/C 100016006|34-T/G 100017176|29-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.005102041   
## 100018612|5-A/C 100020218|34-A/C 100065408|22-T/G 100065476|64-G/A 100065761|7-G/A 6632042|19-G/C 100015587|20-C/A 100016037|24-A/G 100021787|68-A/C 100022942|14-C/G 100066550|58-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004444444 0.000000000 0.000000000   
## 100082539|7-G/A 6650594|30-T/G 6653546|21-T/C 6664281|14-A/T 100016076|49-A/C 100022081|49-G/A 100022274|36-C/A 100116482|57-T/A 100121512|34-G/C 100017777|61-G/A 100064625|41-A/G   
## 0.000000000 0.004115226 0.000000000 0.004237288 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100064874|12-T/C 100106306|45-G/A 100106306|65-G/A 100021587|57-C/T 100065160|65-G/T 100073403|34-A/C 100082633|51-A/G 100097045|48-T/C 6652651|47-T/A 6661761|37-C/T 100017728|53-A/C   
## 0.000000000 0.000000000 0.000000000 0.009708738 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100065286|5-A/C 100082197|10-C/T 6633952|10-G/C 6657904|18-T/C 100065579|38-A/C 6661858|20-C/A 100019471|14-G/A 100044832|16-G/T 100065848|33-G/A 100066117|37-G/T 100112452|34-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6630404|40-A/C 100103994|35-G/T 100017343|6-T/C 100064738|40-C/G 100064746|17-G/A 100074010|27-G/C 6631936|55-T/C 6661620|58-C/G 100016884|51-C/A 100065351|47-C/G 6631698|7-C/G   
## 0.000000000 0.000000000 0.000000000 0.004201681 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652538|34-T/C 6657259|24-G/A 100016745|16-T/C 100065233|43-G/A 6630611|19-A/C 6652270|62-C/G 6652729|29-T/G 100020530|29-C/A 6630408|13-G/T 6630626|34-A/T 6631766|58-C/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6633539|7-G/A 6634322|14-T/G 6652458|12-A/T 6653006|66-G/A 6653115|48-T/A 6663957|45-C/T 100066473|39-A/G 6650554|32-A/G 6657465|23-T/A 6663949|9-G/A 100020033|33-A/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100082315|13-G/A 6629848|65-C/G 6630880|24-C/G 6650849|38-G/A 6650881|15-G/A 6651487|20-C/T 6651826|47-T/A 6652855|33-G/T 6657563|28-T/G 6657811|15-G/A 6658667|25-T/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6662907|9-T/A 6665143|45-A/G 100021831|19-T/A 100045184|5-G/C 100065651|20-A/C 100066434|64-T/A 100066660|33-T/C 6633749|29-T/A 6635481|20-A/G 6650535|47-C/A 6652320|27-G/C   
## 0.000000000 0.000000000 0.000000000 0.006250000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652796|29-G/C 6654065|42-C/G 6657294|51-C/A 6658085|11-A/G 6661346|29-T/A 6661679|17-C/T 6662799|12-C/A 6662831|22-C/T 6663021|23-A/G 100085932|36-G/C 6630269|58-C/T   
## 0.004566210 0.000000000 0.000000000 0.000000000 0.004405286 0.000000000 0.000000000 0.000000000 0.000000000 0.004761905 0.000000000   
## 6630995|13-C/T 6633153|34-C/T 6644233|38-G/T 6650943|57-C/G 6650961|27-T/G 6651177|55-C/G 6651864|18-T/C 6652465|10-A/T 6652776|7-C/T 6654017|47-C/T 6657683|10-G/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6657925|11-T/C 6658404|12-T/G 6664915|43-G/T 100045721|8-T/A 100082404|10-G/T 100093333|22-G/A 6633054|40-T/A 6642765|20-C/T 6643196|21-C/G 6653359|24-C/T 6658471|31-G/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004424779 0.000000000 0.000000000 0.000000000 0.004115226   
## 100065416|12-T/C 6661414|26-T/C 6664306|12-G/A 6665409|5-T/A 6642901|10-G/A 100108705|8-G/A 6665151|5-A/T 100122090|6-T/A 6662690|20-C/T 100016003|7-T/A 100016649|43-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100019431|29-C/T 100023959|16-T/C 100024997|62-T/G 100044851|16-G/C 100064658|7-C/T 100064682|49-G/A 100064707|51-G/A 100064714|52-G/A 100064753|29-A/G 100064840|30-G/A 100065000|48-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100065025|5-A/G 100065087|14-G/A 100065157|40-T/G 100065238|55-G/T 100065368|11-G/C 100065400|61-A/G 100065428|33-G/C 100065497|38-G/T 100065538|49-T/G 100065597|12-A/T 100065605|63-C/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100065647|9-T/C 100065669|36-A/C 100065706|45-G/A 100065736|5-A/G 100065739|9-C/T 100065933|35-G/A 100066025|19-T/C 100066134|25-T/C 100066259|18-C/T 100066274|66-A/G 100066332|57-T/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100066410|32-G/A 100066624|60-C/G 100082151|41-C/A 100082232|23-T/G 100082297|57-C/T 100082311|43-C/T 100082409|16-T/A 100082418|7-T/C 100082564|6-T/C 100082633|21-G/A 100086276|23-G/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100086585|5-G/T 100091075|52-C/T 100091130|54-T/C 100093549|30-T/C 100098502|34-A/T 100101042|48-T/G 100121195|12-A/G 100121196|29-T/C 100121197|43-C/G 100121199|47-T/A 100121200|51-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100122496|35-G/A 6630263|32-T/A 6630513|10-G/C 6631038|8-T/C 6631621|56-C/G 6633643|35-C/T 6634127|43-A/G 6635254|35-A/C 6641856|17-G/T 6642355|17-A/G 6650389|35-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6650444|8-A/G 6650519|63-A/G 6650553|61-C/G 6650587|17-C/A 6650591|24-A/G 6650676|68-C/T 6650899|7-G/A 6650902|63-C/T 6650919|10-A/G 6651039|12-G/A 6651054|54-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651207|33-A/G 6651431|65-C/G 6651512|39-C/A 6651635|32-C/T 100065262|63-T/A 6651763|26-G/A 6651874|8-T/A 6651879|12-C/T 6652022|6-C/T 100065511|46-G/C 6652174|20-A/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652193|50-G/A 6652287|47-C/A 6652538|35-G/A 6652743|25-G/A 100065924|8-G/T 6652898|57-G/T 6653034|66-G/A 6653037|45-C/G 6653161|37-C/T 6653161|51-C/G 6653240|43-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653383|7-T/C 6653394|26-G/A 6653420|30-G/T 6653514|60-C/G 6653521|20-A/T 6653525|7-A/G 6653571|21-G/T 6653574|48-G/T 6653793|20-C/T 6653861|28-C/G 6653990|38-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6654094|56-G/T 6654108|11-A/G 6657811|16-C/T 6658021|8-T/G 6658173|44-C/A 6658487|25-C/A 6658616|17-G/T 6661180|50-T/C 6661214|14-C/G 6661229|60-G/A 6661236|33-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6661487|18-A/G 6661524|9-G/A 6661550|30-T/C 100082471|28-C/T 6661631|29-G/C 100082491|60-C/T 6661651|25-G/A 100082562|68-C/A 6661778|27-A/G 6661827|57-C/G 6661838|61-A/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6661845|30-A/G 6662631|42-G/A 6662646|5-A/C 6662657|27-G/A 6662765|9-A/G 6662767|43-T/A 6662797|33-T/C 6663018|35-C/G 6663941|10-G/C 6663953|25-A/G 6663990|56-G/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6664007|22-C/A 6664018|43-T/C 100091330|60-C/T 6664739|19-C/T 6665051|50-C/A 6665130|20-T/A 6665130|26-T/A 6665131|16-G/T 100109477|22-G/A 6665563|54-C/T 6665566|58-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6665567|59-A/G 6665600|6-T/C 6665637|6-G/C 6665638|50-G/C 6665992|26-C/T 6666146|48-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
##   
## # Expected heterozygosity:   
## 6661549|60-C/T 6650588|15-C/T 6661794|21-A/G 6664081|63-G/A 6653885|30-A/G 6661177|64-C/T 6661457|52-C/T 6653401|39-G/A 6657572|30-T/A 6661566|34-A/G 6663962|65-C/T   
## 0.499782986 0.499274376 0.495550018 0.498614958 0.490977946 0.496683115 0.500000000 0.499003508 0.455548775 0.468463960 0.470416362   
## 6665217|18-A/G 6661207|60-A/C 6661398|51-C/T 6651899|27-T/A 6653020|28-A/C 6653704|64-T/G 6650504|59-T/C 6652003|38-G/C 6661105|11-G/T 6661432|29-C/A 6652162|44-A/T   
## 0.497418337 0.489709626 0.468043808 0.456294896 0.497471605 0.495542375 0.494665961 0.446483006 0.492822103 0.467790976 0.483471074   
## 6653798|57-C/T 6653191|40-A/G 6664876|31-G/A 6661163|31-T/C 6652675|16-G/T 6652288|45-C/T 6650933|66-G/A 6653948|58-T/C 6663083|49-G/A 6662726|45-A/G 6664756|9-C/T   
## 0.493213309 0.480358737 0.466557669 0.482229239 0.500000000 0.477040816 0.499415589 0.499626743 0.490337630 0.461419753 0.454734122   
## 6661688|18-A/G 6666128|43-C/G 6652433|13-A/G 6652352|5-T/C 6664270|14-C/A 6651416|17-C/T 6664751|11-T/A 6657734|47-A/G 6663081|18-A/G 6651148|64-A/T 6656916|22-T/C   
## 0.472125772 0.431412894 0.461747397 0.492362075 0.483053518 0.499720999 0.478116630 0.435955679 0.437591882 0.491862690 0.449130499   
## 6653573|49-T/C 6661198|22-T/G 6665027|17-A/T 6664900|6-C/T 6650826|66-G/A 6653766|40-A/C 6665588|8-C/T 6652573|8-C/A 6652700|14-C/G 6664334|9-A/G 6651772|17-A/T   
## 0.486992716 0.492254416 0.486111111 0.490903191 0.497662357 0.498949653 0.448532986 0.458509035 0.483471074 0.455636034 0.473741319   
## 6651828|36-G/A 6650476|13-A/C 6651474|15-T/C 6652836|30-C/T 6653346|25-C/A 6658563|22-C/T 6661870|10-G/T 6657169|37-T/C 6661569|7-A/G 6652342|46-G/A 6656937|18-C/T   
## 0.497819509 0.489002801 0.468027481 0.487643256 0.474311111 0.429256797 0.499991098 0.448425595 0.434963719 0.466766357 0.436894044   
## 6661537|56-G/A 6664008|14-G/A 6651473|53-G/A 6661884|29-T/A 6662691|24-C/T 6661181|61-C/T 6651798|39-C/A 6661610|46-T/C 6653512|60-C/G 6651413|19-C/A 6651436|18-C/T   
## 0.444444444 0.475580721 0.467126890 0.496497118 0.424561164 0.464076948 0.483471074 0.499917817 0.471078353 0.498750000 0.495758310   
## 6663093|22-C/A 6652854|20-T/C 6657907|22-C/T 6664719|5-A/G 6651857|34-G/T 6658182|11-G/A 6661203|33-G/T 100066381|65-T/C 6661291|28-A/C 6651404|67-A/G 6661583|6-T/C   
## 0.437044745 0.440151838 0.420366552 0.431020408 0.443029073 0.438412999 0.468750000 0.492881586 0.494311111 0.466745152 0.433884298   
## 6653019|13-C/T 6661633|39-G/T 6653539|14-G/C 6652507|49-A/G 6662661|7-T/C 6661859|57-A/G 6661395|60-C/T 6661690|43-G/A 6653303|26-C/T 6650697|6-C/A 6661748|26-C/T   
## 0.441701368 0.445699897 0.473261719 0.416810942 0.444444444 0.499533827 0.476739715 0.479655179 0.494842529 0.498715199 0.485229492   
## 6661276|34-A/G 6651590|59-C/G 6661435|48-G/A 6664012|53-A/G 6651071|8-C/T 6661174|27-G/A 6657901|34-G/A 6661288|56-T/C 6664895|15-G/A 6665065|54-A/G 6653483|52-C/T   
## 0.487229207 0.444969790 0.461656805 0.457045184 0.486796875 0.458316802 0.459569641 0.400350765 0.499885216 0.445976938 0.483176359   
## 6652822|57-G/A 100065688|55-A/G 6661405|37-G/T 6661817|33-A/G 6651443|47-G/T 6651921|15-T/A 6654090|16-G/A 6653899|53-A/G 6661211|62-G/A 6652984|32-G/A 6661495|42-T/C   
## 0.438401824 0.467559630 0.450421005 0.413887500 0.443064235 0.482015458 0.499967482 0.461950059 0.498765480 0.464369075 0.464898824   
## 6650679|43-C/T 6661246|33-G/A 6653043|54-C/G 6651254|12-A/T 6653789|32-G/T 6650988|24-G/A 6650862|68-C/A 6653541|8-A/G 6662900|30-G/A 6653618|37-G/A 6664721|14-C/T   
## 0.452441261 0.423210373 0.432928585 0.469836873 0.451171875 0.422137988 0.497814357 0.434032456 0.427520832 0.494238565 0.425361570   
## 6652395|48-C/T 6661842|33-T/A 6661739|54-G/A 6652644|26-G/A 6652332|20-T/C 6651976|25-G/A 6661113|14-C/T 6661301|20-G/A 6662986|27-C/T 6653529|7-G/A 6651972|24-A/G   
## 0.433574985 0.476214669 0.448616103 0.456525312 0.420756497 0.454207064 0.455279937 0.433884298 0.399713952 0.450527893 0.420000000   
## 6652901|58-C/T 6653167|32-C/T 6652763|59-G/A 6651610|56-G/C 6661486|27-C/T 6664344|37-A/G 6661743|17-G/A 6651212|18-A/G 6651054|64-T/A 6653313|42-A/G 6652640|45-C/A   
## 0.429687500 0.463667297 0.448291253 0.482887500 0.439156301 0.405937001 0.402852320 0.497418337 0.444444444 0.447923554 0.423210373   
## 6653127|48-G/A 6652179|62-G/A 6664422|18-A/G 6661732|8-C/T 6658587|26-G/A 6661161|53-A/C 6657089|25-C/T 6650998|9-A/T 6652379|23-G/C 6652823|50-C/A 6653209|28-G/C   
## 0.427692918 0.476044871 0.431083940 0.416631944 0.481508876 0.492901766 0.466587996 0.495520669 0.440646847 0.418754883 0.486111111   
## 6664750|24-C/T 6666098|18-G/A 6664416|28-A/G 6661208|26-A/T 100017494|26-T/C 6657426|10-G/T 6650467|17-T/C 6661591|23-T/C 6661615|53-A/G 6651689|52-C/T 100093282|6-C/T   
## 0.390322064 0.428414901 0.417480469 0.462615967 0.434678473 0.371815414 0.408163265 0.437374045 0.482015458 0.430517139 0.398226068   
## 6651044|31-C/T 6663926|8-G/A 6661122|39-C/T 6653015|45-G/T 6651960|46-A/G 6658395|10-A/G 6664288|7-C/G 6651937|12-G/T 6661119|32-T/C 6653567|68-C/T 6657105|21-A/G   
## 0.406809758 0.488165680 0.474311111 0.405306927 0.399876983 0.368703745 0.391374605 0.427437642 0.481440956 0.442932798 0.447034087   
## 6653958|12-C/T 6664417|17-G/A 6653929|22-G/A 6653560|40-C/T 6651307|58-C/T 6651918|7-T/C 6652335|27-T/C 6652403|61-A/C 6661676|25-C/T 6657686|15-A/G 6661180|15-G/A   
## 0.408565616 0.396170485 0.408565616 0.446273308 0.398750000 0.450788158 0.428916958 0.424292292 0.453144523 0.404793388 0.412857008   
## 6664065|56-A/T 6662654|14-C/T 6661258|19-T/G 6661326|21-G/T 6661503|51-G/A 6665677|54-T/C 6651345|67-A/G 6653158|39-C/T 6661434|33-C/T 6650700|61-G/A 6665573|50-G/T   
## 0.404296875 0.405337684 0.457413104 0.394688324 0.414577778 0.355377445 0.392742382 0.403200000 0.367506988 0.435361697 0.371063232   
## 100103686|15-C/T 6661407|28-A/T 6662956|24-T/G 6653198|44-C/T 100119886|12-A/G 6653976|22-T/C 6661123|44-T/C 6661423|44-C/T 6661694|9-T/C 6653208|48-G/A 6661587|35-T/C   
## 0.437913832 0.382793145 0.381121508 0.432132964 0.350802461 0.421373365 0.366230678 0.436224490 0.456055682 0.416584011 0.441701368   
## 6653932|10-C/T 6657861|14-G/A 6664287|35-C/T 6653108|33-A/G 6650863|33-C/T 6653166|35-T/C 6652001|24-A/G 6657913|25-C/G 100109898|15-G/A 6661240|65-T/A 6661268|13-G/A   
## 0.391412951 0.373777513 0.410731998 0.431219555 0.402465278 0.416548929 0.380262562 0.365156846 0.355215267 0.364630841 0.391344904   
## 6653580|43-G/T 6657145|22-C/A 6661660|20-C/T 6652645|41-C/T 6651100|28-C/T 6661548|20-A/G 6657725|32-C/T 6652908|9-A/T 6661838|60-T/G 6652562|28-G/A 6654077|33-C/T   
## 0.406645328 0.366805411 0.392721276 0.408438844 0.367402919 0.429182564 0.397769376 0.395671392 0.369577631 0.423440454 0.385199653   
## 6661761|38-G/A 6658102|52-C/T 6657350|31-T/A 6651178|33-C/T 6661253|38-T/C 100104030|16-C/A 6664895|24-C/A 6653522|21-A/G 6661899|11-A/G 6650883|48-C/T 6661607|53-C/G   
## 0.424822990 0.393491124 0.394859742 0.353298611 0.421117565 0.444955297 0.486111111 0.379672481 0.427307075 0.365479518 0.351000023   
## 6654004|30-T/A 6653722|5-T/G 6654003|26-C/A 6652045|5-C/T 6658305|27-T/C 6657714|46-T/C 6661603|40-G/C 6650949|5-A/T 6664725|29-A/G 6657697|38-A/G 6661471|62-C/G   
## 0.381786045 0.386923457 0.387351611 0.406501096 0.409164203 0.368507561 0.366230678 0.328851087 0.499288003 0.337522463 0.366074177   
## 6661765|40-G/A 6661481|66-A/C 6653282|53-T/C 6652110|26-C/T 6652196|51-C/T 6652944|56-G/A 6658191|17-C/G 6661286|15-G/A 6653684|7-T/C 6653203|66-A/G 6661751|44-T/G   
## 0.367241281 0.469320764 0.373915406 0.407684326 0.417664356 0.401234568 0.394017743 0.326666084 0.373360673 0.363044807 0.452353497   
## 6661711|66-G/A 6650674|36-C/T 6653554|14-G/A 6651804|55-G/C 6664076|29-C/A 6663980|50-G/A 100102214|5-C/T 6653379|50-A/G 6651865|33-T/G 6661260|22-A/T 6651954|62-T/C   
## 0.355029586 0.348750000 0.361225461 0.378105469 0.352582871 0.330876560 0.384929693 0.355377445 0.366598934 0.346479639 0.342459505   
## 6656942|42-G/A 6652635|57-G/A 6661149|41-C/T 6650632|65-G/A 6650568|31-G/C 6650938|6-C/T 6658511|21-A/C 6654094|65-T/C 6653106|31-C/T 6661381|44-A/G 6652779|66-A/G   
## 0.337428701 0.348932064 0.410356302 0.375000000 0.361267761 0.354451055 0.359729604 0.298200692 0.355576472 0.333579882 0.334821818   
## 6650898|47-G/A 6657805|7-A/G 6661727|46-C/T 6662592|9-C/T 6661085|13-C/T 6661239|45-A/G 6665990|9-G/C 6650977|39-G/A 6652000|22-C/T 6658391|30-C/T 6661184|41-C/G   
## 0.343624357 0.335489191 0.341986852 0.359033597 0.334687500 0.358109879 0.488560130 0.315688776 0.313894032 0.313123320 0.497601244   
## 6651519|67-C/G 6652011|54-C/T 6661376|29-C/T 6650669|9-A/G 100073501|45-A/G 6651742|50-G/A 6653416|29-C/T 6661643|49-G/A 6650635|62-G/A 6651529|9-C/T 6652878|58-G/T   
## 0.346449653 0.338139120 0.286242604 0.342245360 0.365569273 0.329260445 0.388750445 0.310431670 0.349103870 0.324222727 0.351642541   
## 6665222|67-C/A 6661481|18-C/T 6665990|48-C/G 6661216|67-C/T 6663955|62-T/C 6652246|10-G/A 6661167|12-T/A 6661710|53-G/A 6664085|17-G/T 6661652|62-A/C 6657045|15-A/G   
## 0.329452369 0.498413013 0.494289377 0.302341425 0.499288003 0.315486069 0.359091602 0.307730720 0.351536448 0.436552524 0.360991736   
## 6661805|6-C/G 6652339|26-G/T 6661277|47-G/A 6661335|49-T/G 6652597|28-C/T 6661737|51-G/T 6664079|62-A/T 6661334|49-G/T 6661187|52-C/T 6653800|24-G/A 6665242|22-G/A   
## 0.481269511 0.369318899 0.304687500 0.329406498 0.306088422 0.290985434 0.293933852 0.332564611 0.313474847 0.302931891 0.499913435   
## 6651247|35-C/G 6653693|39-C/A 6661436|12-T/C 6650629|61-C/A 6653328|49-C/T 6650603|26-A/G 6651494|48-G/A 6652060|23-C/T 6657933|10-C/T 6651038|40-T/C 6664362|28-C/T   
## 0.336734694 0.418375676 0.307176664 0.305040847 0.386007629 0.340790816 0.325034715 0.298995020 0.372561033 0.274027258 0.290885295   
## 6651571|67-C/T 6664050|15-A/G 6652084|30-C/T 6661846|32-C/T 6653638|33-A/C 6657305|12-A/C 6663909|36-C/T 6661305|58-A/G 6657606|35-G/A 6661206|19-A/C 6657339|6-G/A   
## 0.306088422 0.343405437 0.310444118 0.300554017 0.322962912 0.289027686 0.302223013 0.263671875 0.314440481 0.270258096 0.317198486   
## 6657292|22-T/A 6661485|59-A/G 6650475|43-C/T 6652083|41-G/A 6663998|25-T/C 6661115|22-T/G 100102214|35-G/A 6651822|26-T/C 6653698|49-A/T 6651072|34-A/C 6661221|40-G/A   
## 0.325413223 0.287491224 0.326666084 0.296796875 0.283264535 0.303680304 0.324795217 0.296124256 0.340894149 0.290487484 0.285473198   
## 6664084|45-C/T 6664046|47-A/G 6664412|13-G/A 6652764|38-C/T 6652859|41-C/T 6662842|43-C/T 6653459|28-T/C 6652467|20-G/T 6658444|32-T/G 6663948|54-G/A 6661848|65-T/G   
## 0.490898211 0.290657439 0.369845898 0.283439258 0.341479994 0.363044807 0.293589115 0.287929878 0.276854737 0.294464412 0.277777778   
## 6661692|19-C/T 6661666|47-C/A 6657189|5-T/A 6663931|25-C/T 6661747|23-A/G 6664777|21-T/G 6657196|41-G/A 6662626|20-G/C 6661431|59-G/A 6651183|67-C/T 100020564|19-A/G   
## 0.322544138 0.230897580 0.319061279 0.322457309 0.270747451 0.267561983 0.294131944 0.262187872 0.287459489 0.271074617 0.243472147   
## 6658409|20-A/C 6661097|28-C/T 6657230|7-A/G 6661119|56-G/A 6661554|36-A/G 6650618|9-G/C 6653999|19-C/T 6663991|5-C/T 6652381|42-A/T 6651915|13-C/T 6662884|19-C/T   
## 0.255287981 0.290885295 0.272101832 0.432464022 0.266295294 0.252515859 0.220720222 0.271731191 0.258171488 0.320000000 0.238343142   
## 6664330|6-A/G 6658057|21-T/G 6664271|29-T/G 6658345|31-A/G 6664281|18-T/A 6651466|33-G/A 6651085|26-C/T 6653605|24-T/C 100044679|44-A/G 100115090|8-A/G 6661464|30-G/T   
## 0.235828368 0.256155659 0.320000000 0.275059488 0.238676187 0.256259638 0.252807617 0.257878095 0.264143823 0.222938326 0.243517166   
## 6650884|45-C/T 6661861|5-T/C 6651870|51-T/C 6650549|15-C/T 6662909|15-A/C 6661345|10-T/C 100096951|40-T/A 6651934|39-C/A 6653561|20-A/G 6663982|40-G/A 6661677|22-C/T   
## 0.272455278 0.229185078 0.286463143 0.238049887 0.284081633 0.220406845 0.258702718 0.310172431 0.244112426 0.238140582 0.272651713   
## 6661705|29-C/G 6661413|63-C/T 100065757|18-C/G 6661266|30-A/G 6661310|64-T/C 6661349|63-A/G 100116458|50-G/A 6665749|7-G/A 6652731|67-C/G 6653078|31-C/T 6653889|13-C/T   
## 0.297520661 0.231111111 0.209750567 0.271094775 0.268372578 0.246856509 0.237709360 0.225780972 0.234157986 0.226134798 0.246389054   
## 6650390|62-T/A 6665512|36-G/A 6653694|33-C/T 6661130|57-A/C 6650397|43-A/G 6652725|65-G/A 6664898|31-T/A 6664740|45-G/A 6661717|60-G/A 6661866|27-T/C 6661803|57-G/C   
## 0.215450908 0.249688501 0.252074653 0.219521076 0.264105703 0.226351000 0.230029608 0.224519077 0.214641216 0.253261389 0.201084068   
## 6653812|35-T/C 6653634|39-G/A 6653421|13-A/G 6653117|34-C/G 6652078|22-T/A 6663918|8-C/G 6651738|38-G/C 100073717|6-G/A 6662614|36-C/T 6663009|7-C/T 6665630|52-T/C   
## 0.223304581 0.225406569 0.203386148 0.298575926 0.214082030 0.213322834 0.261012041 0.187398594 0.228046875 0.224403122 0.216813689   
## 6661118|33-G/A 6651890|7-G/A 6650967|42-C/A 6661605|18-C/T 6651286|19-T/A 6653631|43-C/T 6661436|18-C/T 6661386|46-C/T 6656991|15-A/G 6658489|9-C/T 100018527|6-C/T   
## 0.217900944 0.217869030 0.210198310 0.247576177 0.194504300 0.227443445 0.240800000 0.293119065 0.248595041 0.223705850 0.191065441   
## 6663957|56-G/A 6653138|31-G/A 6653361|55-G/A 6662597|30-A/G 6653013|37-T/C 6664770|35-T/G 100018912|62-G/T 6650463|42-T/A 6664775|59-A/G 6651694|29-A/T 6664064|49-A/G   
## 0.217145153 0.192293401 0.191326531 0.175206059 0.217379722 0.197530864 0.178021643 0.203898457 0.399865694 0.171799983 0.185613926   
## 6652918|18-G/A 6651840|35-G/A 6651055|13-G/A 6653477|22-A/T 6661719|26-T/A 6661828|67-T/A 6654030|47-G/A 6665066|58-G/C 6653260|47-G/T 6650860|49-G/A 6654039|20-G/A   
## 0.203341855 0.199019025 0.213367347 0.177316574 0.201037723 0.379347492 0.175434065 0.486111111 0.181315518 0.177843914 0.209200592   
## 6665336|52-C/T 6650985|20-G/A 6665243|28-G/C 6662888|44-A/C 6665236|63-T/C 6663983|17-C/T 100066027|14-A/T 6653607|5-T/C 6661170|39-C/T 6661781|60-G/A 100073694|44-G/A   
## 0.213175309 0.173502704 0.459861111 0.181980398 0.191095531 0.164703329 0.165604352 0.177297690 0.233550000 0.160049246 0.174566501   
## 6663947|55-T/C 6661831|54-T/C 6652266|47-T/C 6663080|20-G/A 6665672|66-T/A 6658491|28-C/A 6661680|19-G/T 6662595|39-C/T 6665990|6-A/T 6657377|47-C/T 6661828|68-T/A   
## 0.173258274 0.158637963 0.181110147 0.156973778 0.168420303 0.245812303 0.144042969 0.203550000 0.430429579 0.138415277 0.355795610   
## 6651958|27-A/G 6653919|17-C/T 100021874|46-A/G 100016068|62-T/A 6665489|31-C/T 100082278|57-C/T 6651291|51-G/T 6653890|21-C/T 6663954|56-C/A 100021943|40-T/C 6652214|62-T/A   
## 0.174190739 0.196168392 0.127603678 0.141726300 0.142298512 0.269064002 0.157550535 0.146337936 0.299596294 0.139820634 0.167243767   
## 100022950|33-A/C 6651253|68-C/T 6650643|36-C/A 6652860|42-G/A 6664014|62-G/A 6661808|48-C/T 6658138|27-A/C 100017513|60-C/T 6661261|32-C/T 6652821|67-C/T 6666304|10-A/T   
## 0.165289256 0.185739794 0.293367347 0.137845179 0.146189836 0.154074592 0.144151467 0.157550535 0.193761815 0.128240525 0.340598825   
## 6665455|61-G/T 100082682|51-T/C 6653384|6-A/G 100023325|25-A/G 100101067|36-C/T 6651685|49-T/A 6653586|60-T/C 6666177|13-A/T 6652540|8-G/T 6651209|49-A/G 100066244|11-A/T   
## 0.259266972 0.130501693 0.142298512 0.056290695 0.154511719 0.145229689 0.133201955 0.347648000 0.154911243 0.126721684 0.137695513   
## 6652377|20-G/A 6661200|23-T/G 100064741|45-G/C 6658040|18-T/A 6653702|48-T/C 6652310|50-C/T 100080867|16-C/T 6665067|64-C/A 6653076|28-C/T 6653648|6-G/A 6651991|67-A/T   
## 0.228139986 0.119894474 0.336734694 0.119986851 0.116569313 0.148887363 0.135026864 0.358350676 0.112589193 0.168739859 0.126721684   
## 6661634|15-T/G 6664050|24-G/C 6652868|58-A/G 6661564|13-A/G 6650547|43-C/G 100064827|8-G/C 6650552|61-G/A 6661602|25-T/C 6661456|61-G/A 6651197|66-T/A 6652994|27-C/T   
## 0.109335140 0.120842014 0.129799892 0.100724310 0.119434707 0.117842160 0.111018180 0.110406188 0.115957581 0.088518578 0.093341865   
## 6661887|13-A/T 6661310|58-T/C 6650745|19-T/G 100017712|8-T/A 6651911|52-G/A 6650417|11-A/C 6652308|53-T/G 6661174|36-C/T 6651243|32-G/A 6662595|43-G/A 6661238|17-G/T   
## 0.160512000 0.128582766 0.109165761 0.099525104 0.088479116 0.097588443 0.075730445 0.189921875 0.130054223 0.101539907 0.098829766   
## 6653091|46-C/G 6651733|50-G/A 6661209|58-G/A 6662998|47-T/C 6650989|12-C/T 6661260|32-A/C 6664754|18-T/C 6653705|22-C/A 6651897|14-A/G 6661468|27-G/A 6662877|32-C/T   
## 0.109518659 0.104938272 0.129243827 0.117187500 0.111409280 0.138386661 0.084938272 0.092091571 0.090120526 0.077949219 0.067145558   
## 6652769|52-G/A 6657468|35-T/C 6664040|37-G/T 6654036|20-C/G 6652581|49-T/C 6663926|28-C/T 6650558|18-A/C 6650767|11-C/T 6650470|54-G/A 6652008|64-T/A 100066158|21-G/A   
## 0.079073228 0.064823766 0.078220266 0.090331451 0.062434964 0.271074617 0.082415696 0.064444444 0.078031638 0.049554726 0.076474274   
## 6661900|39-T/C 100022191|13-A/T 6665045|39-A/T 6652766|56-A/G 6652767|24-T/A 6651271|49-G/A 6661314|26-G/A 6653619|65-T/C 100116986|5-T/C 100116987|6-T/G 6653081|42-A/G   
## 0.471748186 0.091392000 0.068877551 0.082634298 0.061695021 0.069174928 0.062047995 0.049828900 0.065143290 0.064444444 0.053057851   
## 6664720|40-A/G 6652605|24-T/C 6661530|52-T/G 6653380|28-A/G 6661534|38-G/A 100100705|17-C/A 6661784|26-C/G 6653485|62-T/C 6658269|15-G/A 6657310|18-C/G 6653319|56-C/A   
## 0.056844006 0.040386864 0.043082536 0.030761719 0.039200000 0.037023852 0.059440637 0.032473745 0.030897464 0.026105092 0.042233839   
## 6662895|13-G/A 6650569|12-C/A 100018011|33-A/T 6653025|64-G/A 100020592|58-C/G 6651157|23-G/A 6652995|7-T/C 6664385|5-T/G 100080823|15-G/A 100098565|15-A/G 6662594|6-A/G   
## 0.033435143 0.051911111 0.053599107 0.024386526 0.037195930 0.019228957 0.019415609 0.017619753 0.017776348 0.035702479 0.026082400   
## 6662608|14-T/C 100111015|17-T/A 6651630|13-G/A 100015677|15-G/A 100021199|37-T/C 6651723|7-T/C 6651946|25-T/C 6652107|59-C/T 6662703|23-A/G 6656926|24-G/A 6662639|8-G/T   
## 0.027901388 0.035386738 0.020199917 0.022170162 0.007272630 0.012986458 0.024238775 0.018016529 0.021975309 0.022170162 0.022810651   
## 6644134|13-A/C 100015999|30-C/T 6651264|67-C/T 100082192|45-T/C 6658187|20-A/G 6658030|16-T/G 6664447|43-A/G 6657081|38-A/G 6657519|27-C/A 6657646|21-G/A 6658294|22-A/G   
## 0.037408431 0.038529014 0.023665244 0.017389966 0.015266272 0.012421875 0.029843893 0.004819249 0.012525598 0.034771713 0.018866213   
## 6663106|39-T/C 6665877|8-T/C 6657134|12-C/T 6662930|5-G/T 100073664|24-C/A 100093267|33-A/T 6665045|33-A/T 6653064|39-T/C 6652028|11-T/C 6652053|54-A/G 6661327|40-C/T   
## 0.016259070 0.013792438 0.025969529 0.018347051 0.010049995 0.031000062 0.031737773 0.008163128 0.013362424 0.016805516 0.028623818   
## 100020810|55-A/G 6661141|23-C/T 100018274|35-A/G 100020489|64-T/C 100021048|30-T/C 100021494|48-T/C 100015195|36-C/T 6652099|5-C/T 100019298|65-T/C 100020731|53-A/G 100065190|44-T/C   
## 0.037023852 0.012684473 0.027644336 0.015112474 0.016259070 0.011235596 0.012421875 0.013422206 0.016900181 0.021319486 0.012473521   
## 6651997|59-A/G 6658436|20-C/T 6650975|51-G/A 6657565|7-G/A 6658077|34-T/C 6652620|41-C/T 6657312|42-G/A 6657368|39-G/A 6657412|9-T/G 6657526|48-C/T 6658588|11-C/T   
## 0.005509600 0.012902682 0.013244444 0.013985320 0.005063259 0.013422206 0.008474423 0.008888712 0.016527778 0.009302122 0.009478458   
## 6662668|7-A/T 6662868|15-G/A 6663029|17-G/A 6664446|24-T/C 100086116|7-C/A 100093344|14-G/C 100098451|30-G/T 100104877|27-G/A 6656935|13-T/G 6657240|11-C/T 6657387|17-A/T   
## 0.012421875 0.017776348 0.018807082 0.020405994 0.012525598 0.006230469 0.012421875 0.012421875 0.010256138 0.014183673 0.012421875   
## 6658126|24-C/G 6662893|11-C/G 100098564|20-T/C 100108662|16-G/A 100090375|13-A/C 6654111|67-T/C 100018022|29-C/T 100018793|30-G/A 100019919|22-G/A 100020224|39-A/G 100021950|26-G/A   
## 0.012902682 0.013920430 0.004728106 0.008031998 0.025100546 0.000000000 0.018689925 0.022672755 0.019542071 0.008771760 0.025312295   
## 100065898|33-G/A 100016342|65-A/G 6653141|47-T/A 100020182|5-A/G 100017739|16-A/G 100019425|22-T/C 100019993|60-T/C 100020111|24-T/C 100022090|7-C/A 100020509|41-C/T 100019969|57-T/C   
## 0.017855694 0.029261837 0.021050249 0.008968428 0.004414989 0.008583532 0.008928392 0.010256138 0.004192854 0.008968428 0.014284975   
## 100021750|68-T/G 6650682|7-C/T 100073640|6-A/G 6658242|13-G/A 6661085|49-C/T 6650645|14-C/G 100022464|43-T/A 100065437|41-T/C 6652497|42-C/A 6653265|58-G/C 6653475|24-G/A   
## 0.004282636 0.005037751 0.008771760 0.013512888 0.017855694 0.005037751 0.012370655 0.013186232 0.008196582 0.019415609 0.004474250   
## 100021941|30-C/T 6658496|17-G/A 6661755|16-A/C 6661423|60-C/T 100015613|67-G/A 6652888|64-A/G 6657111|13-T/C 6658119|34-T/A 6661367|26-G/T 100111976|26-A/G 100016385|11-T/C   
## 0.008695486 0.000000000 0.024892310 0.033888228 0.017697704 0.008583532 0.023252595 0.008403212 0.011172832 0.007117347 0.017776348   
## 100073644|37-C/T 6650454|46-A/G 6650627|13-T/C 6651042|67-C/T 6652424|44-T/C 6653438|30-C/T 6653954|43-A/G 6657314|43-G/A 6657355|38-G/A 6657359|15-A/G 6657460|29-G/A   
## 0.010869241 0.009090720 0.011695502 0.005970096 0.012473521 0.008695486 0.010049995 0.004282636 0.019800000 0.009049587 0.005089025   
## 6657482|8-A/G 6657781|17-C/A 6661090|62-A/T 6661394|35-A/G 6662671|17-A/G 6662872|17-G/T 6663077|27-G/T 100080773|11-T/C 6650529|9-A/G 6651847|21-G/A 6652313|42-C/T   
## 0.008928392 0.009389462 0.004106759 0.000000000 0.006600588 0.009345588 0.008695486 0.008928392 0.008474423 0.008810400 0.012421875   
## 6656897|6-A/T 6657147|18-G/A 6657176|29-T/G 6657326|12-G/A 6657353|6-A/G 6657411|13-G/A 6657545|31-T/C 6657603|29-G/A 6657689|26-G/A 6657743|8-C/G 6657998|8-A/G   
## 0.015502930 0.013422206 0.008657845 0.012819979 0.013128530 0.006779583 0.013604804 0.010152020 0.012738330 0.008196582 0.017776348   
## 6658208|29-C/T 6658287|13-A/G 6658348|17-A/T 6658475|20-C/A 6658498|16-G/A 6658580|46-G/C 6661448|44-G/T 6661799|23-C/T 6662617|41-T/G 6662633|33-G/C 6662813|9-G/T   
## 0.000000000 0.008474423 0.008298611 0.009049587 0.015998959 0.008888712 0.008298611 0.012684473 0.008403212 0.004140769 0.010100750   
## 6662843|9-A/G 6662968|7-T/C 6662976|12-A/C 6664360|25-T/C 6664442|16-C/T 6664875|15-A/G 100021224|39-C/T 100073899|13-T/C 100098800|29-G/T 100100663|9-T/A 6650431|37-G/A   
## 0.008474423 0.012986458 0.008510483 0.006116150 0.009661608 0.026900826 0.019800000 0.023252595 0.010152020 0.008657845 0.005633758   
## 6656974|5-A/T 6657112|32-C/T 6657945|33-T/A 6658433|38-T/A 6664304|20-G/T 6664309|9-T/C 100116189|14-C/A 100045177|15-A/G 100073820|20-A/G 100086048|24-A/T 100098455|12-T/G   
## 0.008264321 0.017240076 0.008196582 0.004192854 0.008368053 0.017542486 0.012473521 0.009049587 0.007662722 0.012269471 0.008657845   
## 100098486|16-T/A 100098772|34-A/T 100112391|7-C/G 6651055|18-T/C 100086270|5-G/C 100112446|22-G/C 6661857|31-C/T 6658676|11-C/G 100016220|5-A/G 100021127|7-A/G 6665873|25-A/G   
## 0.005167924 0.008196582 0.016459772 0.021975309 0.030761719 0.111605860 0.008771760 0.009302122 0.008968428 0.005063259 0.014387734   
## 6654134|52-T/A 100016595|6-G/A 100021410|63-C/T 100023315|21-T/C 6653760|49-C/A 100021585|32-T/G 100023219|12-A/G 6658683|43-C/T 100064732|20-A/G 100016355|33-T/C 100019393|16-C/T   
## 0.142540816 0.007721892 0.012958412 0.008888712 0.018689925 0.008264321 0.017465893 0.018516901 0.073964497 0.008849383 0.014457065   
## 100020119|15-A/G 100022894|28-G/A 100082537|56-C/T 100016273|19-A/G 100023327|12-C/T 100015858|19-C/T 100022410|6-G/A 100017258|51-G/T 100019095|48-C/T 100020063|20-G/A 100015954|31-A/G   
## 0.000000000 0.014387734 0.009389462 0.009259059 0.006557306 0.000000000 0.000000000 0.012847429 0.004661979 0.005037751 0.006078971   
## 100021964|13-G/C 100085852|36-T/C 6651226|18-G/C 100021819|62-A/C 100022277|8-T/G 100064827|60-G/T 100018209|24-G/C 100022569|31-G/A 6653298|40-A/G 100015576|20-G/A 100016155|45-A/G   
## 0.005305002 0.012902682 0.006005952 0.004282636 0.004264373 0.004246265 0.004728106 0.008583532 0.004494359 0.005037751 0.000000000   
## 100018361|5-C/T 100018644|13-A/G 100065285|54-G/A 100066085|48-C/G 100066350|63-A/G 100082653|31-C/G 100019242|15-T/C 100065918|65-C/T 100082574|16-T/C 100112503|22-T/C 6651116|23-G/A   
## 0.006733930 0.012684473 0.009523591 0.004357278 0.009478458 0.000000000 0.005730612 0.000000000 0.000000000 0.004301055 0.000000000   
## 6664424|11-C/T 100017539|66-C/A 100019104|53-C/T 100020067|42-A/C 100020868|41-A/G 100064882|50-T/C 6658317|12-A/T 6661605|7-T/C 6664288|12-C/T 100016786|17-G/A 100020956|6-T/C   
## 0.000000000 0.009174117 0.004661979 0.004123694 0.008771760 0.009216392 0.004376347 0.000000000 0.006557306 0.012578112 0.000000000   
## 100016197|32-C/T 100017640|9-C/G 100018738|55-G/T 6651375|43-G/A 6651394|40-A/T 6657692|30-G/C 6661438|21-G/A 100015230|14-A/T 100015429|54-A/G 100016348|67-T/C 100022665|32-G/A   
## 0.000000000 0.004728106 0.009851975 0.008546851 0.004157986 0.004705856 0.008810400 0.004228311 0.008438667 0.009755863 0.012631069   
## 6650646|12-A/G 6651058|8-C/T 6652871|25-G/T 6653284|49-A/G 100020780|47-T/C 100082291|18-C/T 6657270|16-C/A 6658306|32-A/G 6663971|20-C/T 100018785|45-G/A 100019578|24-A/G   
## 0.000000000 0.004157986 0.009216392 0.008733456 0.006920332 0.000000000 0.009174117 0.005361892 0.008620528 0.005141354 0.008474423   
## 100021429|16-A/G 6651301|13-T/C 6653801|25-T/C 6662791|9-T/C 6665675|15-G/A 6665677|34-G/A 6651053|25-C/T 6651062|23-G/C 6657266|49-A/G 6661781|11-G/A 6662884|20-G/A   
## 0.013186232 0.000000000 0.000000000 0.008810400 0.004474250 0.004728106 0.006779583 0.004192854 0.008733456 0.000000000 0.005037751   
## 6661633|24-T/C 100064957|57-C/G 6650480|42-G/T 6651168|20-T/C 6651202|6-G/T 6651669|51-A/T 6651901|52-A/G 6652133|6-G/A 6652277|34-G/T 6652429|23-C/A 6652852|41-C/T   
## 0.000000000 0.005141354 0.008333187 0.009433750 0.005509600 0.004106759 0.004157986 0.007721892 0.000000000 0.000000000 0.004494359   
## 6653859|66-G/C 6657107|30-C/T 6657341|14-T/G 6657827|41-T/C 6657863|36-T/C 6657972|11-T/G 6658332|28-G/A 6661576|17-T/C 6662852|8-G/C 6665753|18-G/A 6665974|16-T/A   
## 0.000000000 0.004357278 0.000000000 0.004414989 0.012902682 0.004301055 0.000000000 0.000000000 0.000000000 0.013422206 0.005167924   
## 6665974|39-G/C 100022319|61-G/T 100066473|44-C/T 6650457|59-C/T 6650512|39-G/A 6650541|48-T/C 6650816|44-C/T 6651070|58-A/C 6651408|58-C/G 6651681|14-C/T 6651690|41-A/G   
## 0.004434568 0.005089025 0.010470914 0.000000000 0.004454321 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651751|52-A/G 6651951|29-T/C 6652480|24-G/A 6652536|25-A/G 6653136|38-A/G 6653193|66-G/C 6653366|47-T/C 6653406|51-T/C 6653654|13-A/G 6653743|54-T/C 6653795|65-G/T   
## 0.004157986 0.000000000 0.013362424 0.000000000 0.004819249 0.000000000 0.000000000 0.004376347 0.000000000 0.008368053 0.000000000   
## 6656968|20-T/C 6657138|49-C/T 6657141|6-G/A 6657590|27-T/C 6657970|16-C/G 6658518|17-G/A 6658664|15-C/A 6661383|36-A/G 6661406|53-T/C 6661709|47-A/C 6661820|30-C/T   
## 0.004728106 0.008968428 0.007721892 0.008163128 0.000000000 0.000000000 0.009389462 0.005089025 0.000000000 0.004106759 0.004357278   
## 6661892|24-C/T 6662654|9-C/A 6662663|5-A/T 6663104|29-A/G 6664717|21-A/G 6665800|40-A/C 6665804|30-T/C 100018586|15-A/G 100045576|29-G/A 100064632|55-G/A 100124805|23-T/C   
## 0.008230312 0.016459772 0.000000000 0.009389462 0.004705856 0.000000000 0.000000000 0.000000000 0.000000000 0.008888712 0.000000000   
## 6650420|21-G/A 6650787|62-C/A 6650795|22-T/C 6651016|52-G/A 6651805|15-A/G 6652208|23-C/T 6652257|65-G/T 6652383|57-G/C 6652388|11-A/G 6652788|54-A/G 6652943|57-G/A   
## 0.000000000 0.000000000 0.004301055 0.005141354 0.000000000 0.004246265 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653199|35-A/C 6653447|32-A/G 6653467|25-G/A 6653565|10-G/C 6653569|24-A/T 6654084|42-A/G 6656901|37-A/C 6656919|48-T/A 6656965|28-C/T 6657179|25-G/A 6657434|21-C/A   
## 0.000000000 0.005361892 0.004376347 0.000000000 0.004106759 0.004535124 0.000000000 0.004210508 0.005970096 0.004376347 0.004123694   
## 6657454|17-T/C 6657477|8-A/G 6657523|10-C/T 6657578|8-C/T 6657628|10-A/G 6657698|41-A/G 6657753|24-G/A 6657784|15-C/G 6657818|27-A/G 6657821|26-T/C 6657854|14-G/A   
## 0.000000000 0.004474250 0.009661608 0.004157986 0.004962748 0.008771760 0.000000000 0.004175347 0.011975613 0.011975613 0.009708507   
## 6657918|33-T/A 6657923|13-T/C 6657975|18-C/G 6658063|26-T/C 6658152|11-T/C 6658175|49-T/C 6658353|18-G/T 6658417|35-C/A 6658431|14-A/G 6658485|8-A/G 6658531|35-G/A   
## 0.004106759 0.000000000 0.005277008 0.000000000 0.008928392 0.006430801 0.007662722 0.000000000 0.004494359 0.000000000 0.005730612   
## 6661099|20-G/A 6661250|41-T/C 6661252|5-A/G 6661823|31-T/C 6661826|50-T/A 6661853|33-G/A 6662682|18-G/C 6662708|45-C/A 6662717|10-T/A 6662720|17-G/A 6663956|7-C/T   
## 0.005037751 0.004414989 0.008968428 0.006825859 0.004535124 0.004494359 0.011975613 0.004494359 0.004123694 0.006309085 0.005037751   
## 6664324|31-T/C 6664897|36-T/G 6664904|21-A/G 6665135|35-C/T 6665977|58-C/T 100062054|9-T/G 100066053|65-C/G 100073867|18-T/C 100098449|11-T/C 100102329|39-G/C 100104849|27-A/C   
## 0.000000000 0.004210508 0.004705856 0.000000000 0.006230469 0.000000000 0.000000000 0.011049383 0.004474250 0.004434568 0.008196582   
## 100118311|8-T/G 6651728|12-T/C 6651869|31-G/A 6651992|39-T/C 6652070|15-A/G 6652698|58-A/G 6653498|29-C/G 6656984|39-A/T 6656988|16-A/T 6657054|5-A/G 6657255|43-C/T   
## 0.000000000 0.008968428 0.000000000 0.000000000 0.009049587 0.004640346 0.004773242 0.004414989 0.007781982 0.008968428 0.009302122   
## 6657257|18-T/G 6657264|21-A/C 6657486|25-A/G 6657731|27-T/C 6657762|30-T/G 6658275|5-T/C 6658351|8-T/A 6658356|40-T/A 6662713|37-C/T 6662735|7-T/C 6662802|35-T/C   
## 0.005089025 0.004228311 0.000000000 0.008163128 0.004106759 0.005602197 0.008368053 0.000000000 0.010869241 0.006514588 0.000000000   
## 6664285|14-G/T 6664286|5-A/G 6664411|22-G/A 100116189|12-G/A 100020566|50-G/A 100073416|9-G/C 100073555|13-T/C 100073946|24-C/A 100082262|34-C/T 100082279|42-T/G 100093533|7-G/T   
## 0.005361892 0.008968428 0.000000000 0.012819979 0.008196582 0.004414989 0.000000000 0.005037751 0.004414989 0.000000000 0.008196582   
## 100093556|10-T/A 100093571|9-A/T 100093658|5-T/C 100102354|38-T/G 100102368|8-T/C 100108745|39-G/C 100124806|24-A/G 6652013|36-G/A 100019613|42-A/G 6653942|18-C/G 100021748|48-G/A   
## 0.004123694 0.004106759 0.005602197 0.004264373 0.004618913 0.004434568 0.000000000 0.000000000 0.004535124 0.000000000 0.013985320   
## 100022307|64-C/T 6661279|61-A/G 100016043|65-A/G 100021551|26-C/G 6651509|9-T/C 100015681|31-G/A 100022444|19-C/T 100065978|51-A/C 100015971|32-G/A 100018341|11-C/T 100018791|30-T/A   
## 0.004514650 0.004514650 0.009851975 0.000000000 0.000000000 0.004301055 0.010470914 0.000000000 0.008438667 0.004750567 0.004576635   
## 100021444|27-G/T 6651402|31-T/C 6652371|36-A/G 100016955|21-T/C 100017267|60-T/C 100017271|28-T/A 100017633|14-G/T 100018216|18-C/T 100018585|65-G/A 100018930|7-A/G 100019458|6-T/C   
## 0.004357278 0.000000000 0.000000000 0.008888712 0.000000000 0.008403212 0.010694878 0.000000000 0.000000000 0.005063259 0.000000000   
## 100020508|64-T/C 100021998|13-T/C 100065288|30-C/T 6657675|5-C/T 100018006|38-A/G 100018907|18-T/C 100018908|67-C/T 100019522|42-C/T 100021552|23-G/T 100021990|59-T/C 100066166|11-T/A   
## 0.025058620 0.011695502 0.000000000 0.006733930 0.009615160 0.011049383 0.005970096 0.008298611 0.004301055 0.004683815 0.004175347   
## 6651977|40-G/C 6661494|35-T/C 6661600|20-T/C 100023675|41-A/G 100064707|39-C/T 100066332|9-G/A 100111975|14-G/C 100015765|23-G/A 100017875|29-A/G 100019456|25-T/C 100019962|30-A/G   
## 0.000000000 0.000000000 0.000000000 0.008771760 0.000000000 0.004210508 0.042792969 0.004842586 0.004705856 0.012194663 0.000000000   
## 100020185|57-C/A 100020870|33-C/G 100021266|13-G/A 6651172|33-A/G 100015703|20-A/G 6653988|60-A/T 100018373|30-C/T 100020483|16-G/A 100022388|34-C/T 100022854|43-G/T 100023104|56-C/T   
## 0.007067049 0.009090720 0.006779583 0.004683815 0.007662722 0.004338374 0.004357278 0.008031998 0.008810400 0.004106759 0.000000000   
## 100023409|22-T/C 100086339|36-T/G 6651925|23-G/C 100120327|18-G/A 100120327|6-G/A 100016290|59-A/C 100020594|60-T/A 100022242|47-G/T 100022320|10-T/C 100022502|23-T/A 6651745|39-T/C   
## 0.008583532 0.004210508 0.000000000 0.000000000 0.015383691 0.006269530 0.004157986 0.000000000 0.004357278 0.004123694 0.008163128   
## 6661848|25-T/G 100016236|36-G/T 100016349|39-A/G 100016910|15-T/A 100020122|19-C/G 100021092|17-T/C 100022165|12-A/G 100023470|59-G/A 6661692|56-G/A 100016458|65-C/G 100018964|48-T/G   
## 0.004597677 0.011049383 0.008771760 0.017092747 0.004728106 0.013512888 0.004395583 0.008771760 0.000000000 0.000000000 0.000000000   
## 100021554|25-A/G 100023185|19-T/G 6650701|18-A/G 6652394|37-T/C 6653506|13-T/A 6664058|35-C/T 100016479|45-A/T 100017508|19-C/G 100018962|16-T/C 100022682|11-A/T 100066335|57-A/T   
## 0.014387734 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100082668|8-A/T 6658494|15-A/G 100015625|54-A/G 100016249|62-A/C 100016393|18-A/T 100016660|55-C/T 100017075|58-G/A 100017124|8-A/G 100017541|11-T/A 100018026|11-T/C 100019630|31-T/C   
## 0.004338374 0.000000000 0.000000000 0.008546851 0.004395583 0.000000000 0.000000000 0.008928392 0.004175347 0.004474250 0.000000000   
## 100019855|44-T/C 100019873|44-G/A 100019915|44-G/T 100022465|65-C/G 100022648|51-G/A 100044512|21-C/T 6650696|57-G/A 6653452|20-G/A 100015340|55-T/G 100017500|23-A/C 100020588|47-C/A   
## 0.004175347 0.000000000 0.000000000 0.000000000 0.000000000 0.005115056 0.000000000 0.000000000 0.004434568 0.004434568 0.000000000   
## 100022422|51-G/T 100022425|5-T/C 100023388|34-C/A 100023484|57-G/A 100023525|29-A/G 100064648|32-T/C 100065646|5-C/A 100073396|12-C/T 100073814|33-T/C 6650655|58-G/A 6651105|51-A/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.004705856 0.004192854 0.004434568 0.000000000 0.004434568 0.000000000 0.000000000   
## 6651192|9-A/G 6652274|53-T/C 6652608|18-G/C 6652649|33-C/G 6653266|5-T/A 6661462|57-A/G 100016352|41-C/T 100016515|37-T/A 100016629|18-T/C 100017186|6-T/C 100018441|46-A/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.011049383 0.011560303 0.000000000   
## 100019819|59-T/G 100021768|16-G/T 100022658|14-G/A 100022749|22-C/T 100023505|21-C/G 100064613|60-T/C 6650443|20-C/T 6650647|27-A/C 6650672|16-T/C 6650875|47-G/A 6652044|30-A/G   
## 0.004282636 0.006600588 0.004866151 0.000000000 0.004140769 0.004474250 0.000000000 0.000000000 0.000000000 0.009433750 0.000000000   
## 6652814|39-C/T 6653050|59-G/T 6653245|23-A/G 6653382|37-T/C 100015237|28-T/A 100016165|7-G/A 100017157|49-G/A 100017486|22-T/G 100019175|10-C/G 100019665|26-G/A 100020841|64-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004683815 0.000000000 0.004282636 0.000000000 0.000000000 0.010100750   
## 100120329|23-A/G 6650705|36-C/T 6651136|7-G/C 6651295|17-C/T 6651888|7-A/G 6652092|41-A/G 6652390|29-T/C 6653344|40-A/G 100017290|62-G/T 100017981|57-C/T 100018180|55-T/C   
## 0.008849383 0.000000000 0.000000000 0.000000000 0.000000000 0.004395583 0.000000000 0.000000000 0.000000000 0.000000000 0.011904335   
## 100018460|39-T/G 100018667|65-G/A 100019573|61-A/C 100020403|29-G/T 100023540|56-T/G 100065318|8-A/G 100066600|5-T/C 100066622|14-T/C 100086014|36-T/C 100098840|27-G/A 6650711|25-C/A   
## 0.008333187 0.005089025 0.000000000 0.010152020 0.000000000 0.000000000 0.000000000 0.004705856 0.012902682 0.006230469 0.000000000   
## 6651249|51-G/C 6653001|20-G/A 6653114|14-T/A 6653811|17-T/C 6661187|29-A/C 100015694|44-A/T 100016554|8-A/G 100017386|12-G/A 100017844|43-G/A 100020562|42-C/G 100021051|67-G/T   
## 0.000000000 0.000000000 0.004123694 0.000000000 0.000000000 0.004123694 0.013362424 0.006430801 0.012792647 0.000000000 0.004282636   
## 100065266|5-T/C 6650693|44-C/T 6651276|7-A/G 6651724|68-A/G 6652175|66-T/C 6652356|17-A/G 6653008|30-C/G 6653473|47-C/T 6653869|47-T/G 6654016|14-A/G 6664729|22-C/T   
## 0.000000000 0.000000000 0.005063259 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.009132228   
## 6661750|65-G/A 100016089|30-C/T 100017364|16-A/G 100017568|38-A/G 100017636|20-G/A 100018230|62-T/C 100020647|25-G/A 100023048|6-T/C 100023313|65-G/T 100023842|66-T/C 6650662|57-T/A   
## 0.000000000 0.000000000 0.000000000 0.009615160 0.005037751 0.000000000 0.008733456 0.000000000 0.009216392 0.000000000 0.000000000   
## 6650857|56-T/C 6650871|15-T/G 6652354|41-T/G 6652712|18-A/G 6652897|32-G/A 6653119|17-A/G 6653277|45-G/C 6653413|34-C/T 6653686|19-A/G 6653906|8-T/C 6656936|12-G/A   
## 0.000000000 0.000000000 0.004210508 0.000000000 0.004228311 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6658216|16-T/C 6661637|61-A/T 6664071|59-C/T 6652420|13-T/G 100017654|43-G/C 100021742|38-C/A 100044665|10-T/G 100064985|48-C/T 100065246|12-A/G 100066557|28-C/T 100082397|38-C/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.004106759 0.000000000 0.008368053 0.000000000 0.004395583 0.000000000 0.000000000   
## 6650620|8-A/G 6650692|56-G/A 6650978|6-G/A 6651221|15-T/C 6651235|33-A/G 6651703|33-T/C 6651891|44-T/C 6652170|11-A/G 6652463|46-A/C 6652496|43-C/T 6653226|65-A/G   
## 0.000000000 0.008510483 0.007721892 0.000000000 0.000000000 0.000000000 0.000000000 0.012047750 0.005012500 0.000000000 0.000000000   
## 6653778|39-T/A 6654074|20-G/T 6658572|16-A/G 6661139|49-C/A 6661309|12-G/A 6661345|40-C/G 6662659|12-A/C 100120331|53-T/G 100020242|53-A/G 100021807|31-T/C 100065925|36-C/T   
## 0.004434568 0.000000000 0.004414989 0.000000000 0.000000000 0.004192854 0.004264373 0.008264321 0.000000000 0.000000000 0.000000000   
## 100066073|6-T/C 100102122|31-C/A 6650428|57-G/T 6652370|62-G/A 6653373|60-G/T 6653417|48-C/G 6653777|46-G/T 6653792|53-C/A 6654058|18-T/C 6661147|26-G/C 6661226|53-C/T   
## 0.011560303 0.004106759 0.000000000 0.000000000 0.000000000 0.004357278 0.000000000 0.004175347 0.005540123 0.000000000 0.000000000   
## 6661658|19-C/T 6661670|43-T/C 6663906|23-C/T 6664040|9-G/T 100017806|36-A/G 100019553|65-G/A 100020150|48-T/C 100022824|15-T/C 100045255|15-T/C 100064683|52-A/G 100065044|38-G/T   
## 0.000000000 0.000000000 0.000000000 0.005063259 0.005089025 0.005089025 0.000000000 0.005730612 0.000000000 0.004157986 0.000000000   
## 100065331|11-A/G 100082376|10-G/T 100114017|32-T/C 6650513|52-C/T 6650793|26-A/C 6650805|11-A/G 6650968|18-A/T 6651099|28-A/G 6651150|45-T/C 6651383|67-T/G 6651541|66-T/C   
## 0.000000000 0.000000000 0.000000000 0.005899653 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651588|49-C/T 6651711|11-A/G 6651715|59-C/G 6651731|68-G/T 6652027|41-G/A 6652109|27-A/G 6652130|35-T/C 6652152|19-T/G 6652278|43-G/C 6652658|29-A/T 6652840|16-G/A   
## 0.008968428 0.000000000 0.000000000 0.000000000 0.004157986 0.011975613 0.000000000 0.000000000 0.004106759 0.000000000 0.008031998   
## 6652867|64-C/T 6652883|26-G/C 6653149|58-C/T 6653187|24-G/T 6653229|41-A/G 6653591|11-G/C 6653796|8-T/C 6653829|21-C/A 6653872|47-G/T 6653967|40-G/A 6657086|36-C/A   
## 0.000000000 0.000000000 0.006230469 0.000000000 0.000000000 0.000000000 0.004618913 0.000000000 0.000000000 0.000000000 0.000000000   
## 6657671|40-C/T 6657902|21-T/C 6661102|10-A/G 6661477|67-A/G 6661483|14-G/C 6661530|26-C/G 6661560|54-A/G 6661564|45-T/A 6662672|28-C/A 6664046|51-T/C 6664055|23-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.006230469 0.004705856 0.000000000 0.000000000 0.000000000 0.008733456 0.000000000   
## 100120332|58-C/A 100120330|33-G/T 100015220|59-C/A 100016151|11-T/C 100016562|12-G/A 100016798|34-C/T 100021467|36-G/A 100065538|21-A/T 100065912|28-G/A 100098480|21-A/C 6650742|33-G/A   
## 0.008264321 0.008298611 0.000000000 0.004474250 0.012819979 0.000000000 0.000000000 0.004773242 0.014387734 0.000000000 0.004494359   
## 6650889|38-G/T 6651263|53-A/C 6651318|7-C/T 6651340|27-C/T 6651392|24-C/T 6651403|11-C/A 6651475|6-A/G 6651645|50-G/A 6651662|13-T/A 6651726|49-G/A 6651740|27-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.004123694 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651858|23-A/G 6651880|60-C/T 6651889|58-T/C 6651919|45-G/T 6652026|29-G/T 6652151|12-T/C 6652259|45-G/T 6652382|40-G/A 6652492|21-C/T 6652504|25-A/G 6652541|50-A/G   
## 0.004434568 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.008695486 0.000000000 0.000000000 0.000000000   
## 6652568|29-G/T 6652593|5-G/T 6652667|36-T/C 6652794|64-C/T 6652856|20-T/A 6653235|13-T/G 6653395|26-G/A 6653420|50-G/A 6653458|58-C/T 6653463|23-A/G 6653479|25-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.008849383 0.000000000   
## 6653599|33-C/T 6653745|15-T/C 6653871|33-G/A 6653881|45-G/A 6657644|31-G/T 6657994|16-G/A 6658139|28-G/A 6658379|30-A/G 6658529|38-A/G 6658559|22-T/G 6658652|28-T/C   
## 0.000000000 0.005730612 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004962748 0.004819249 0.000000000 0.004819249   
## 6658660|28-C/G 6661093|40-C/A 6661130|16-T/C 6661369|40-T/C 6661393|35-C/A 6661665|50-T/C 6661672|7-G/A 6661712|36-C/T 6663057|27-A/C 6663982|51-T/G 6665517|21-A/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.004474250 0.000000000 0.000000000 0.006230469 0.004106759 0.000000000 0.009523591   
## 6665665|51-T/C 6665807|65-G/A 100104824|10-C/A 100020394|66-C/G 100020441|43-A/C 100021095|9-T/C 100021324|61-A/G 100044982|27-T/C 6633176|7-T/C 6650394|45-T/C 6650524|64-C/A   
## 0.004376347 0.000000000 0.009900745 0.000000000 0.004750567 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6650526|41-A/C 6650616|12-C/T 6650617|39-T/G 6650695|29-G/A 6650768|33-C/T 6650776|41-A/G 6650824|6-C/G 6650856|61-G/C 6650931|6-C/T 6650932|50-A/G 6650935|64-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.004157986 0.000000000 0.000000000 0.004301055 0.000000000 0.004192854 0.000000000   
## 6650950|61-A/C 6650971|13-G/A 6651076|54-T/C 6651094|7-C/T 6651112|44-A/C 6651140|51-A/G 6651141|28-C/T 6651166|8-G/A 6651232|36-T/A 6651234|42-A/T 6651248|33-A/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651256|30-A/G 6651296|34-G/A 6651362|29-A/G 6651505|25-A/G 6651536|18-C/T 6651549|18-T/C 6651584|29-A/G 6651585|28-G/A 6651603|27-G/A 6651650|53-C/T 6651682|41-G/A   
## 0.004962748 0.000000000 0.000000000 0.014387734 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004661979 0.000000000   
## 6651722|21-T/C 6651790|34-A/C 6651836|41-C/A 6651920|32-T/A 6651945|47-T/C 6651948|51-G/A 6651949|50-A/C 6651978|13-T/C 6651988|28-A/T 6651995|36-G/C 6651996|46-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004640346 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652021|23-A/T 6652050|59-T/C 6652102|5-C/T 6652139|9-C/G 6652157|32-T/A 6652164|29-T/C 6652198|12-T/A 6652209|23-C/G 6652232|10-G/A 6652236|58-T/C 6652248|19-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004106759 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652256|38-A/G 6652399|58-G/T 6652408|36-G/T 6652455|7-A/G 6652563|7-G/C 6652666|14-C/T 6652708|30-T/C 6652718|43-C/A 6652723|11-A/G 6652744|49-T/G 6652761|57-T/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652809|41-A/G 6652820|37-G/T 6652865|19-C/G 6653005|35-T/C 6653010|64-G/C 6653038|53-G/C 6653130|47-A/T 6653175|37-A/G 6653237|34-C/T 6653376|49-A/C 6653396|18-A/G   
## 0.004395583 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004414989 0.000000000 0.000000000   
## 6653462|51-G/A 6653499|18-A/G 6653523|14-A/C 6653530|62-T/C 6653604|19-T/A 6653643|33-G/C 6653655|16-T/C 6653725|23-C/A 6653838|44-C/T 6653994|51-G/A 6656884|31-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004319634 0.000000000 0.000000000 0.006078971   
## 6656889|19-A/G 6657085|18-T/G 6657130|23-G/T 6657217|6-G/T 6657267|27-G/T 6657331|17-A/G 6657391|26-A/G 6657478|16-A/C 6657485|17-C/T 6657548|20-A/G 6657600|33-G/A   
## 0.004640346 0.005089025 0.008583532 0.000000000 0.004357278 0.000000000 0.007117347 0.000000000 0.007843016 0.000000000 0.004494359   
## 6657637|34-A/C 6657667|22-A/G 6657873|49-G/A 6658002|34-T/C 6658172|30-C/A 6658300|7-T/A 6658375|19-C/G 6658441|13-C/T 6658569|13-G/A 6661094|36-A/G 6661297|9-T/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.008230312 0.000000000 0.004728106 0.004866151 0.006779583 0.000000000 0.000000000   
## 6661311|33-T/C 6661392|20-A/G 6661396|55-T/C 6661401|35-G/A 6661459|27-G/A 6661496|33-C/G 6661598|62-A/G 6661609|59-A/C 6661636|18-T/A 6661653|9-G/A 6661756|25-G/A   
## 0.000000000 0.000000000 0.005970096 0.005730612 0.000000000 0.000000000 0.008403212 0.006269530 0.004264373 0.000000000 0.000000000   
## 6661788|59-G/T 6661804|5-T/A 6661860|33-C/T 6662701|6-A/G 6662705|5-C/G 6662826|20-C/T 6663036|30-T/G 6663052|30-A/G 6663927|13-G/A 6664053|24-C/T 6664315|17-A/G   
## 0.000000000 0.000000000 0.000000000 0.004395583 0.000000000 0.000000000 0.000000000 0.004962748 0.000000000 0.004123694 0.006600588   
## 6664393|35-G/A 100101004|14-G/C 6664748|30-C/A 6665122|15-A/T 6665280|39-G/A 6665349|39-T/A 100109477|21-T/C 6665749|9-T/C 6665804|12-G/A 6665805|15-G/A 6665809|11-A/G   
## 0.005730612 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004414989 0.000000000 0.000000000 0.000000000   
## 6665975|52-G/A 6666169|13-T/A 6666355|23-A/G 100123948|55-T/C 100022390|44-G/A 100023236|15-G/A 100073694|7-G/A 100082381|22-C/A 100098535|7-C/G 100098787|33-A/G 100123797|15-G/T   
## 0.000000000 0.004106759 0.000000000 0.000000000 0.004819249 0.000000000 0.004683815 0.000000000 0.000000000 0.000000000 0.000000000   
## 6632181|18-G/A 6650384|58-A/G 6650392|28-C/A 6650405|15-T/C 6650425|36-A/T 6650440|25-T/C 6650441|46-C/T 6650503|7-C/T 6650511|35-A/T 6650582|52-A/C 6650601|22-C/T   
## 0.013422206 0.004640346 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6650694|13-A/C 6650707|5-A/G 6650750|63-G/A 6650751|7-T/G 6650881|41-T/C 6650887|8-T/G 6650895|17-A/G 6650942|29-A/G 6651068|27-G/A 6651106|54-A/T 6651126|7-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651199|46-C/G 6651277|12-C/T 6651309|58-A/G 6651440|6-A/G 6651559|24-C/T 6651568|46-G/C 6651596|5-C/T 6651608|37-G/A 6651626|23-G/C 6651670|12-A/G 6651678|31-T/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004106759   
## 6651702|11-C/T 6651729|48-A/G 6651775|9-A/G 6651799|50-C/G 6651833|60-C/T 6651834|42-T/G 6651856|61-G/A 6651902|48-A/T 6651916|32-C/T 6651940|40-C/T 6651955|38-C/A   
## 0.000000000 0.004913975 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004210508   
## 6652103|6-G/A 6652221|13-A/G 6652233|30-C/T 6652271|50-T/C 6652312|29-A/G 6652323|41-T/C 6652348|30-G/A 6652387|29-A/C 6652570|42-C/A 6652579|68-G/T 6652611|59-C/A   
## 0.000000000 0.000000000 0.000000000 0.004618913 0.000000000 0.000000000 0.000000000 0.000000000 0.004106759 0.000000000 0.000000000   
## 6652679|46-G/C 6652770|46-T/C 6652916|41-A/G 6652924|5-G/T 6653139|25-C/T 6653290|15-T/C 6653405|19-T/G 6653547|59-T/C 6653608|25-C/G 6653635|5-T/C 6653678|35-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004683815 0.000000000 0.000000000 0.000000000   
## 6653689|26-T/A 6653786|26-A/G 6653788|50-G/A 6653837|14-C/T 6653866|26-A/T 6653923|19-A/T 6653998|66-G/A 6654062|37-C/T 6654076|43-A/C 6656943|6-A/T 6656950|8-C/G   
## 0.005797052 0.000000000 0.004106759 0.015036731 0.000000000 0.004106759 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6657301|15-A/G 6657373|32-C/A 6657396|21-C/T 6657408|41-T/C 6657466|14-C/G 6657470|5-C/T 6657514|43-G/A 6657532|34-T/C 6657551|9-T/C 6657596|44-G/A 6657604|9-T/G   
## 0.000000000 0.004228311 0.005115056 0.000000000 0.000000000 0.013422206 0.000000000 0.005063259 0.004414989 0.004819249 0.000000000   
## 6657613|10-A/C 6657630|52-C/T 6657681|17-C/T 6657715|15-C/T 6657723|9-A/T 6657726|41-A/G 6657729|7-G/A 6657752|22-T/A 6657881|18-C/G 6658064|41-T/A 6658065|28-A/C   
## 0.004228311 0.000000000 0.007843016 0.000000000 0.004106759 0.000000000 0.004683815 0.004123694 0.000000000 0.000000000 0.000000000   
## 6658111|29-A/T 6658148|11-T/C 6658186|19-A/G 6658226|42-C/T 6658296|10-A/T 6658347|20-C/G 6658374|29-C/T 6658438|42-C/G 6658501|21-A/C 6658566|40-C/T 6661096|38-A/G   
## 0.000000000 0.000000000 0.000000000 0.004157986 0.000000000 0.004301055 0.000000000 0.004454321 0.004228311 0.004140769 0.000000000   
## 6661098|8-C/T 6661155|52-A/G 6661165|8-T/C 6661251|38-A/G 6661269|21-G/A 6661341|8-C/T 6661391|21-C/A 6661466|12-C/T 6661555|18-G/C 6661659|40-C/T 6661684|52-G/A   
## 0.000000000 0.004157986 0.004618913 0.004819249 0.000000000 0.004157986 0.000000000 0.006557306 0.000000000 0.000000000 0.000000000   
## 6661698|59-T/A 6661775|7-A/G 6661797|49-G/A 6662590|20-A/G 6662615|6-C/T 6662790|12-G/C 6662818|19-G/A 6662832|11-A/G 6662835|7-G/C 6662944|22-G/C 6662946|24-G/A   
## 0.004434568 0.000000000 0.000000000 0.000000000 0.000000000 0.008403212 0.004866151 0.000000000 0.004889946 0.000000000 0.000000000   
## 6662996|36-G/A 6663047|41-G/A 6663054|17-C/T 6663939|28-A/T 6663975|44-T/C 6663987|39-C/G 6664296|7-C/G 6664312|54-A/T 6664428|37-G/A 100082074|52-T/C 6664722|41-T/G   
## 0.000000000 0.004157986 0.007843016 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.005633758 0.010256138 0.000000000   
## 6665235|64-T/C 6665278|5-A/G 6665282|36-G/A 6665346|17-A/G 6665662|22-T/C 6665663|28-T/A 6665849|25-C/T 6665877|33-T/C 6665879|38-A/T 6666358|65-C/T 100016475|46-G/A   
## 0.000000000 0.000000000 0.009389462 0.000000000 0.004301055 0.004210508 0.006779583 0.004434568 0.004338374 0.000000000 0.000000000   
## 100016905|48-C/A 100018192|15-C/A 100018375|55-C/G 100021981|25-T/A 100045028|11-A/G 100065468|15-G/A 100065569|37-C/A 100073412|16-T/C 100073701|13-G/T 100074011|18-G/C 100082459|38-C/A   
## 0.000000000 0.000000000 0.004210508 0.000000000 0.006042241 0.000000000 0.000000000 0.015266272 0.004192854 0.006005952 0.004210508   
## 100086150|10-G/T 100086229|17-T/C 100086237|9-C/A 100091190|32-A/G 100091207|45-C/G 100091251|13-T/C 100096444|12-A/C 100098472|22-C/G 100103647|6-C/A 100107103|17-C/T 6650387|53-A/G   
## 0.004210508 0.000000000 0.000000000 0.000000000 0.000000000 0.011695502 0.004264373 0.004140769 0.013729321 0.000000000 0.004301055   
## 6650481|61-G/A 6650788|22-T/C 6651332|37-A/C 6651818|50-T/C 6651863|32-C/T 6652372|10-T/C 6652511|31-G/A 6652754|21-A/G 6652755|9-G/A 6653571|19-A/G 6653574|37-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004357278 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653585|24-C/T 6657101|27-G/A 6657124|22-T/C 6657595|21-A/G 6657640|37-T/G 6657747|20-T/A 6657809|8-A/C 6657847|15-A/G 6657859|39-G/C 6657980|25-A/G 6658003|48-T/C   
## 0.000000000 0.000000000 0.004301055 0.004705856 0.000000000 0.005305002 0.004434568 0.000000000 0.004434568 0.014387734 0.000000000   
## 6658141|5-G/C 6658173|38-T/C 6658437|16-G/A 6658509|5-T/C 6658625|7-G/C 6661101|21-T/C 6661509|18-T/G 6661745|36-G/A 6661802|6-G/A 6661814|14-T/G 6662656|29-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004454321 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6662837|7-T/A 6662873|7-G/C 6662947|5-G/A 6663032|15-G/A 6664269|17-T/G 6664285|27-A/C 6664757|14-T/C 6664912|6-T/C 6665124|27-C/T 6665664|30-A/C 6665874|13-A/G   
## 0.000000000 0.000000000 0.008510483 0.008928392 0.010416381 0.000000000 0.000000000 0.011560303 0.006116150 0.004264373 0.004246265   
## 6665876|47-A/G 6666225|7-A/G 100065638|51-G/C 100065980|45-T/C 100073421|25-T/C 100073630|15-C/G 100073757|34-G/C 100073948|30-G/A 100074014|19-T/A 100074068|17-A/G 100082248|28-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004576635 0.004357278 0.000000000 0.000000000   
## 100086042|5-C/T 100093665|8-T/G 100098602|36-T/A 100098836|24-A/C 100102147|13-C/T 100121015|18-T/C 100066223|13-G/A 100106210|14-T/G 6665285|9-C/T 6661710|31-T/C 6653668|61-T/A   
## 0.013422206 0.004264373 0.008298611 0.004357278 0.004866151 0.000000000 0.000000000 0.013604804 0.008810400 0.000000000 0.000000000   
## 100024870|39-A/C 6663929|41-A/C 100019092|30-T/A 6661298|58-T/C 100016534|66-G/A 100023056|37-G/A 100082643|25-G/C 100064775|20-G/A 100023265|24-C/A 6651137|52-T/C 6652727|6-C/A   
## 0.000000000 0.000000000 0.000000000 0.005449551 0.000000000 0.011235596 0.013888210 0.000000000 0.000000000 0.000000000 0.000000000   
## 100021017|32-G/T 100073776|11-G/A 100015600|63-A/T 6665051|27-A/T 100019246|34-T/A 6651056|34-C/T 6661829|9-C/T 6665126|22-A/C 100016268|6-T/C 100020350|21-A/G 100023328|20-T/C   
## 0.004796135 0.000000000 0.000000000 0.000000000 0.000000000 0.004414989 0.000000000 0.009389462 0.011560303 0.004705856 0.004728106   
## 100066210|28-C/T 6661110|21-T/A 100018023|63-A/G 100020236|59-G/A 100021188|32-G/C 100021960|39-C/T 100023459|46-A/G 100017280|64-T/G 100018247|39-T/A 100021898|39-C/T 100022093|45-A/T   
## 0.000000000 0.004282636 0.000000000 0.004395583 0.000000000 0.000000000 0.009090720 0.008546851 0.004434568 0.009950000 0.004246265   
## 100023129|9-T/A 100023441|20-A/G 100065302|16-G/A 100066548|17-C/T 6650550|11-T/G 100016077|58-A/G 100018469|20-T/G 100019543|16-G/T 100020860|10-A/C 100022172|17-T/G 100045257|30-G/T   
## 0.004338374 0.007662722 0.000000000 0.000000000 0.000000000 0.004640346 0.000000000 0.000000000 0.000000000 0.000000000 0.004157986   
## 6650546|47-C/A 6653399|26-T/A 100015390|53-T/G 100017298|53-C/T 100017444|58-C/T 100017989|5-T/C 100018126|55-A/G 100018257|27-G/T 100018350|18-A/T 100020244|19-T/A 100021605|34-G/T   
## 0.000000000 0.000000000 0.004140769 0.004661979 0.000000000 0.000000000 0.000000000 0.000000000 0.004395583 0.000000000 0.004210508   
## 100023076|20-A/T 100023357|49-A/T 6653628|59-A/G 6661821|17-T/A 100015255|25-C/T 100015707|14-A/T 100015710|46-C/T 100016017|19-C/T 100017899|6-A/G 100019473|54-C/T 100020145|63-C/G   
## 0.000000000 0.000000000 0.000000000 0.008968428 0.000000000 0.004228311 0.005390796 0.000000000 0.004395583 0.008583532 0.000000000   
## 100021743|44-C/T 100022776|55-C/A 100023242|39-G/C 100082188|29-T/C 100015628|14-G/A 100020893|36-A/G 100021540|61-G/A 100021665|36-G/A 100022938|66-G/C 100023291|60-T/A 6661242|40-T/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6661353|60-C/T 100016201|10-C/T 100016537|37-T/G 100016842|18-C/T 100016876|65-C/T 100016987|65-G/A 100017504|59-C/A 100019821|57-T/A 100020901|34-T/C 100021671|8-G/A 100021969|10-T/C   
## 0.000000000 0.009661608 0.000000000 0.000000000 0.000000000 0.000000000 0.004157986 0.000000000 0.000000000 0.000000000 0.004357278   
## 100022199|66-G/A 100022545|35-T/C 100022573|13-G/C 100022831|52-G/A 100066558|7-C/T 100016263|30-C/G 100016306|10-A/T 100017198|10-T/A 100017275|13-A/G 100017509|15-C/G 100018032|68-T/C   
## 0.000000000 0.000000000 0.000000000 0.005141354 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004705856   
## 100018336|6-C/T 100018672|56-G/T 100019100|44-G/T 100019286|14-C/G 100019912|15-C/T 100020907|14-C/T 100021161|47-T/A 100021810|7-T/C 100023367|18-C/T 100064740|15-A/T 6653264|41-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6663072|37-T/A 100016098|7-T/C 100016143|59-T/C 100016740|12-A/C 100016777|38-T/C 100018407|47-C/A 100018609|48-C/T 100019034|62-G/A 100019293|6-G/T 100019468|41-G/A 100019644|45-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.008733456   
## 100019745|64-C/T 100021138|40-C/T 100022777|45-C/T 100066874|50-C/A 100091157|27-T/G 6652941|42-T/C 6653902|40-C/T 6664728|12-C/T 100015633|60-A/G 100016193|8-T/A 100017485|19-T/C   
## 0.009008825 0.000000000 0.000000000 0.000000000 0.000000000 0.004264373 0.004140769 0.006557306 0.000000000 0.000000000 0.000000000   
## 100018162|27-C/T 100019061|21-G/C 100019334|15-C/T 100019756|22-T/C 100020056|55-G/T 100020924|20-C/T 100022009|9-G/A 100022323|36-A/G 100022703|5-T/C 100023049|42-G/A 100023218|64-G/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004264373   
## 100023269|66-A/G 100024832|25-T/C 100044738|8-C/T 100065081|38-C/T 100065706|32-G/A 100096952|53-C/A 6651239|56-C/A 6651495|32-A/G 6652638|14-C/A 6653296|13-A/C 6661158|36-C/T   
## 0.004661979 0.000000000 0.004157986 0.000000000 0.004228311 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.006230469   
## 100015381|11-T/A 100015413|40-A/T 100015882|61-G/T 100017512|41-A/C 100018395|5-T/C 100019423|68-C/G 100019434|60-G/T 100019704|32-C/G 100019785|27-T/C 100021066|30-G/A 100021425|47-C/A   
## 0.000000000 0.000000000 0.005089025 0.000000000 0.005602197 0.004192854 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100021475|63-A/T 100021915|65-G/A 100022373|12-A/G 100022606|28-T/C 100022910|49-A/G 100025041|57-G/A 100044554|19-G/A 100064948|49-T/A 100065362|20-C/T 6650752|20-T/A 6652176|15-T/C   
## 0.000000000 0.005089025 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653696|11-C/T 6662909|25-T/C 100015291|39-T/G 100016129|26-G/A 100017225|65-T/C 100017536|38-A/T 100017676|8-G/A 100019216|7-C/G 100019420|52-C/G 100019494|63-G/T 100020318|21-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004157986 0.000000000   
## 100020532|11-T/G 100020604|29-A/G 100020745|51-A/C 100021499|21-G/C 100021838|13-T/A 100021978|37-T/C 100022031|7-T/A 100022223|45-A/G 100023499|68-G/T 100023507|21-G/A 6634782|49-G/A   
## 0.000000000 0.000000000 0.004301055 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004474250   
## 6650656|12-T/G 6652475|14-A/T 6661333|17-C/T 100015448|67-A/T 100015469|19-T/A 100015537|12-C/T 100015992|7-C/A 100016029|18-C/T 100016274|21-C/T 100016854|18-G/T 100017144|48-G/A   
## 0.000000000 0.008438667 0.000000000 0.004376347 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100017489|57-G/A 100017909|16-T/C 100018611|43-C/A 100018927|63-G/C 100019035|27-T/A 100019236|16-C/T 100020671|26-T/C 100021001|60-T/A 100021318|46-C/G 100021549|61-A/C 100021863|20-C/T   
## 0.000000000 0.000000000 0.004962748 0.000000000 0.000000000 0.004842586 0.000000000 0.004157986 0.000000000 0.000000000 0.004319634   
## 100023205|16-G/T 100044711|34-G/A 100064599|63-A/C 100065680|37-G/A 100118396|21-A/G 6651534|52-G/A 6651570|59-C/T 6652200|26-G/A 6652872|49-G/A 6654031|17-C/T 6661376|52-G/A   
## 0.000000000 0.004728106 0.000000000 0.000000000 0.009389462 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.005141354   
## 6662917|14-G/T 6666226|12-T/G 100015950|5-A/G 100016109|31-A/T 100016805|54-A/G 100016861|15-T/C 100017893|45-T/C 100018244|41-A/T 100018636|16-G/A 100018890|25-T/C 100018982|31-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.005730612 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100019094|40-C/T 100019137|21-G/C 100019699|26-G/C 100020118|29-C/T 100020890|29-C/T 100021219|23-C/T 100021521|57-T/G 100022288|6-G/C 100022337|30-A/G 100022554|22-T/C 100023064|19-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.009389462 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004866151   
## 100045690|24-G/A 6650514|37-T/A 6651982|15-T/A 6653247|28-A/C 6653292|47-C/G 6653430|58-A/G 6653481|64-T/C 6653533|6-C/A 6653865|59-A/C 6661831|60-G/A 100015200|15-A/C   
## 0.004474250 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100015297|26-C/T 100015382|10-T/A 100017834|8-C/T 100020258|46-C/T 100021617|53-T/C 100021932|18-G/T 100022038|23-C/A 100022622|15-A/G 100022667|15-C/T 100022800|24-C/A 100022903|55-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004319634 0.000000000 0.000000000 0.000000000 0.000000000   
## 100023130|51-G/C 100023154|5-T/C 100023531|17-A/G 100045599|24-A/G 100065227|31-T/C 100065691|24-C/T 100066039|22-G/A 100066092|14-C/T 100074069|38-T/C 100106301|19-A/G 6650690|47-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.007547062 0.000000000 0.000000000 0.005249307   
## 6651361|32-G/A 6652061|58-G/A 6652327|54-A/T 6653204|40-A/G 6653393|35-C/A 6653673|65-A/G 6653746|33-C/A 6661305|25-C/G 6664067|16-C/A 6664716|12-T/C 100015645|28-C/T   
## 0.004228311 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100016045|44-C/T 100016331|42-T/C 100017699|11-G/A 100018593|39-G/A 100018814|46-A/G 100019003|20-A/T 100019081|63-A/T 100019377|57-G/A 100019413|55-T/G 100019588|52-G/A 100021006|21-C/T   
## 0.000000000 0.000000000 0.004796135 0.000000000 0.004555785 0.000000000 0.000000000 0.000000000 0.004434568 0.000000000 0.000000000   
## 100021094|7-C/G 100022208|18-A/C 100022310|31-G/A 100022384|48-G/A 100022899|42-C/G 100108128|12-A/T 6650846|64-A/G 6650911|65-G/A 6651088|5-A/C 6651399|12-C/A 6652520|9-A/G   
## 0.000000000 0.000000000 0.004301055 0.000000000 0.000000000 0.004376347 0.000000000 0.000000000 0.000000000 0.000000000 0.008474423   
## 6653133|15-G/A 6653564|53-G/A 6653709|31-G/A 6653720|68-C/A 6653797|40-A/T 6653874|10-G/T 6653907|59-A/G 6653965|43-A/G 100065805|29-G/T 6661880|32-C/T 100015400|35-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.005509600 0.000000000 0.005089025 0.008657845 0.006078971   
## 100016174|6-C/A 100016241|19-C/T 100016653|31-G/A 100017080|12-A/T 100017172|64-G/C 100017659|13-G/A 100017936|42-T/C 100018252|52-A/G 100018331|42-G/A 100019441|49-A/T 100020597|8-T/A   
## 0.000000000 0.000000000 0.000000000 0.004376347 0.000000000 0.000000000 0.004264373 0.008298611 0.000000000 0.004264373 0.000000000   
## 100020814|67-G/A 100022284|10-G/A 100022341|63-A/G 100023203|29-C/G 100023334|6-G/T 100023527|5-T/A 100082625|32-A/G 6631600|18-G/A 6634219|54-C/T 6650605|38-G/A 6650666|57-T/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.013422206 0.008583532 0.000000000 0.009132228   
## 6650850|54-G/C 6651176|17-T/A 6651223|56-T/G 6651266|67-C/T 6651497|13-G/A 6651500|53-T/A 6652020|49-C/T 6652396|20-C/T 6652765|20-C/T 6653179|35-C/A 6653588|36-G/A   
## 0.000000000 0.000000000 0.004157986 0.000000000 0.000000000 0.000000000 0.008968428 0.000000000 0.004319634 0.004474250 0.000000000   
## 6653617|17-C/G 6653803|13-C/G 6653921|17-G/A 6654071|34-C/T 6658453|44-C/T 6662623|41-C/T 100015396|38-G/A 100015614|19-G/A 100015961|7-A/G 100016361|49-G/A 100016600|22-G/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.010470914 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100017130|57-T/G 100017328|47-G/A 100018645|27-A/G 100018647|11-T/C 100019579|57-A/G 100019755|66-T/A 100020516|10-T/C 100021870|45-T/C 100022119|34-G/A 100022158|40-C/G 100022170|46-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004357278 0.000000000 0.004728106 0.000000000 0.000000000   
## 100022467|38-A/C 100022708|55-T/C 100023428|39-C/A 100064901|22-G/A 100066583|50-G/C 100082198|48-A/G 100082209|53-T/A 100114666|37-A/T 6650551|48-A/C 6650640|8-G/T 6651037|14-A/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004913975 0.004106759 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651123|16-G/T 6651198|35-C/T 6651548|20-C/G 6652349|48-A/C 6652912|31-C/T 6652960|9-G/T 6653047|24-C/T 6653111|54-G/C 6653182|48-A/G 6653306|31-C/A 6653329|47-T/C   
## 0.000000000 0.007017457 0.004301055 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004106759 0.000000000   
## 6653695|53-T/C 6657908|24-T/C 6658488|17-G/A 6661172|54-T/C 6661256|38-C/G 6665238|10-A/T 100016051|64-C/A 100016065|42-C/A 100016173|67-C/G 100016227|33-T/G 100016734|15-A/G   
## 0.004319634 0.005141354 0.000000000 0.000000000 0.004192854 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100017686|33-G/C 100017703|8-T/C 100017977|13-T/C 100018439|16-T/C 100020203|19-G/A 100021102|63-A/C 100021231|28-T/G 100021723|29-T/G 100022522|40-C/T 100022709|6-G/A 100045624|6-C/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.004866151 0.000000000 0.000000000 0.004338374 0.000000000 0.000000000 0.000000000   
## 6650668|41-T/C 6650746|17-T/C 6650807|17-C/T 6650886|31-G/A 6650934|11-G/A 6651435|37-C/T 6651778|31-G/A 6651783|65-C/T 6652191|59-C/T 6652464|36-A/G 6652873|35-C/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.004796135 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653077|56-T/C 6653537|32-A/G 6653577|27-G/A 6653747|15-A/G 6661083|6-C/T 6661240|52-C/A 6661424|62-T/C 6661830|19-T/C 6665513|19-G/C 6661486|13-G/C 100015240|23-G/A   
## 0.000000000 0.005361892 0.000000000 0.000000000 0.000000000 0.016735210 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100016947|13-A/G 100018671|65-G/A 100019864|8-C/G 100019949|8-C/T 100020694|31-T/C 100022684|13-T/A 100022926|58-G/T 100023200|68-C/T 100044609|42-A/G 100065342|51-C/T 100066803|48-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004106759 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100085950|35-A/G 100108060|20-G/C 6630419|14-G/A 6650581|35-C/G 6650628|40-T/C 6650650|35-G/T 6650684|65-A/T 6650719|47-G/A 6650735|38-G/C 6650879|60-C/T 6651049|16-C/G   
## 0.000000000 0.000000000 0.004866151 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.006153788 0.000000000 0.000000000   
## 6651124|38-C/T 6651144|62-T/C 6651167|41-A/G 6651516|36-T/G 6651679|24-G/A 6651984|7-T/A 6652023|10-G/A 6652091|50-T/A 6652242|32-G/A 6652409|10-T/C 6653236|64-T/C   
## 0.000000000 0.000000000 0.000000000 0.004210508 0.000000000 0.000000000 0.000000000 0.004535124 0.000000000 0.004357278 0.000000000   
## 6653348|13-G/A 6653637|32-G/T 6653657|58-T/C 6653943|15-G/T 6653959|63-A/G 6654028|68-A/G 6654050|51-G/T 6654072|32-C/A 6657061|32-A/G 6661522|65-A/G 6665120|10-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.004750567 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100120328|20-T/C 100120333|61-G/A 100065668|5-T/C 100015835|6-C/T 100016061|39-G/C 100016656|14-T/C 100017602|16-G/A 100019319|48-T/C 100019777|21-G/C 100021190|47-T/C 100022177|66-A/G   
## 0.000000000 0.011172832 0.000000000 0.000000000 0.008849383 0.000000000 0.000000000 0.011235596 0.000000000 0.000000000 0.000000000   
## 100023241|6-T/C 100044452|9-C/G 100065422|7-G/A 100066442|52-G/A 6650473|26-A/G 6650482|38-T/C 6650496|24-C/T 6650610|24-T/A 6650644|49-A/G 6650834|54-C/A 6650842|16-G/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.007117347 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651138|26-A/T 6651261|54-G/A 6651453|19-A/C 6651597|59-A/G 6651744|34-A/T 6651756|62-G/A 6651812|33-C/T 6651980|42-A/G 6652201|21-C/A 6652243|14-C/G 6652864|38-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004282636 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653219|11-G/C 6653248|20-T/C 6653427|25-A/G 6653971|28-A/T 6657006|6-C/A 6657540|27-G/A 6661088|54-C/T 100082471|46-T/C 6661706|26-T/C 6664071|6-G/A 100016295|41-G/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100018466|44-G/A 100020140|32-T/C 100020690|9-T/G 100020765|38-G/C 100021275|46-C/T 100045738|12-T/A 100082496|60-G/T 6650712|28-A/C 6650913|49-A/G 6650972|30-C/T 6651222|59-G/A   
## 0.004819249 0.004192854 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651438|51-T/C 6651492|20-G/A 6651654|52-A/G 6651829|48-G/A 6651860|44-T/G 6651877|63-C/T 6651935|33-C/T 6651974|35-C/T 6651986|27-T/C 6652262|36-T/C 6652560|9-A/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652688|16-G/A 6652875|8-C/G 6653021|18-A/G 6653263|25-G/C 6653294|9-G/A 6653410|59-G/C 6653536|55-G/A 6653603|22-T/C 6653802|50-G/C 6653830|13-C/T 6653963|35-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004301055 0.000000000 0.000000000 0.013985320   
## 6654043|16-A/G 6658028|40-G/C 6661349|14-C/A 6661568|63-A/T 6661747|28-T/C 6663960|60-T/C 6663980|14-A/G 100019622|48-T/A 100019802|12-C/T 100020020|13-G/A 100021576|15-T/C   
## 0.004414989 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.006557306 0.000000000 0.000000000   
## 100022394|27-C/T 100023389|57-T/G 100023502|39-T/A 100073839|28-C/G 6635439|23-T/C 6650563|22-C/T 6650688|61-A/G 6650747|16-A/C 6650772|42-C/A 6650861|34-T/A 6651030|62-A/T   
## 0.000000000 0.000000000 0.004434568 0.004123694 0.008196582 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651225|58-T/C 6651322|19-G/A 6651329|44-C/A 6651331|12-T/A 6651353|65-C/A 6651374|45-A/G 6651589|18-T/A 6651687|45-A/G 6651748|42-G/T 6651933|62-A/G 6652449|21-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652527|63-C/A 6652542|24-G/C 6652684|46-A/G 6652730|63-C/G 6652782|44-C/T 6652925|43-T/C 6653316|17-T/A 6653365|26-A/G 6653370|22-C/T 6653474|66-G/A 6653556|52-A/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004889946 0.000000000 0.000000000 0.004576635 0.000000000 0.000000000   
## 6653733|18-G/T 6653741|19-T/C 6653765|48-T/C 6653879|16-T/C 6654049|52-T/A 6657335|32-G/A 6658312|10-A/G 6661127|7-A/C 6661289|11-T/C 6661380|15-T/G 6661529|31-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004454321 0.000000000   
## 6661563|46-C/A 6661785|56-A/G 6661832|23-C/T 6663079|11-G/A 6665675|20-A/G 6666102|6-C/T 100121706|16-C/T 100015265|55-C/A 100015554|25-A/G 100017634|45-C/T 100018229|31-T/A   
## 0.000000000 0.000000000 0.004246265 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100018597|37-C/G 100018998|48-T/C 100019106|32-T/C 100093589|24-T/C 6632259|35-G/A 6632582|5-C/T 6650532|52-G/A 6650756|47-A/G 6650830|17-G/A 6650851|66-A/T 6650928|5-A/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6650987|34-A/G 6651080|35-C/T 6651107|37-G/A 6651110|32-G/T 6651196|62-C/A 6651288|46-T/C 6651442|63-C/T 6651613|49-C/A 6651658|42-A/T 6651720|6-A/G 6651765|63-C/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651802|34-G/T 6651873|50-T/C 6651874|53-T/A 6651906|20-T/A 6651943|26-G/A 6651957|58-G/A 6652104|41-C/G 6652143|61-T/G 6652149|28-A/G 6652158|57-C/T 6652181|32-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652211|12-C/T 6652240|22-G/A 6652269|40-C/T 6652459|65-C/T 6652473|56-G/T 6652516|46-A/G 6652757|25-T/C 6652797|7-G/T 6652811|14-C/T 6652891|17-T/C 6652914|32-A/G   
## 0.000000000 0.000000000 0.000000000 0.006733930 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652922|32-G/A 6653051|5-G/C 6653071|48-C/T 6653276|22-T/C 6653337|5-T/C 6653343|21-C/G 6653392|28-C/G 6653404|15-T/C 6653456|52-A/G 6653484|18-G/A 6653641|8-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004157986 0.000000000 0.000000000   
## 6653669|32-C/T 6653732|48-A/T 6653735|8-T/G 6653739|44-G/C 6653814|28-G/A 6653826|65-T/G 6653844|35-A/G 6653895|16-A/G 6653898|20-C/A 6653961|15-T/C 6654048|23-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.005730612 0.000000000   
## 6657273|10-C/G 6657733|25-C/T 6657825|20-A/C 6658114|32-C/G 6658233|5-T/G 6658363|20-A/C 6661157|31-A/G 6661223|43-A/T 6661238|20-T/G 6661454|19-A/G 6661478|59-G/T   
## 0.000000000 0.000000000 0.004106759 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6661581|31-C/T 6661584|33-A/T 6661734|17-A/G 6662610|35-C/T 6663909|13-G/T 6664051|46-A/C 6665119|8-A/G 6666170|15-A/C 6666170|17-G/A 6666170|6-G/A 100018529|16-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.008031998   
## 100019109|54-C/T 100020873|6-C/G 100020968|7-A/G 100021983|42-A/C 100022525|11-T/A 100065722|64-T/C 6650393|5-T/C 6650424|56-T/C 6650439|56-G/A 6650466|32-T/C 6650505|17-A/G   
## 0.000000000 0.000000000 0.000000000 0.004123694 0.000000000 0.005063259 0.005602197 0.000000000 0.000000000 0.000000000 0.006600588   
## 6650506|45-A/C 6650533|15-G/T 6650557|47-G/T 6650621|36-G/A 6650631|22-C/T 6650685|22-A/T 6650724|18-T/A 6650838|22-C/T 6650866|40-T/C 6650867|54-T/C 6650893|22-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6650917|35-C/T 6650920|31-G/C 6651018|30-A/C 6651060|22-T/C 6651146|26-G/A 6651378|67-C/T 6651387|24-T/A 6651391|45-G/A 6651444|17-T/C 6651450|54-T/G 6651457|37-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.005141354 0.000000000 0.000000000 0.000000000   
## 6651484|65-A/G 6651503|6-A/G 6651510|59-A/G 6651537|19-A/C 6651552|29-C/T 6651562|32-G/C 6651569|33-T/G 6651580|22-T/A 6651606|13-T/C 6651612|31-C/T 6651615|24-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651705|42-A/G 6651737|5-C/T 6651892|35-T/C 6651930|26-G/C 6651938|17-A/C 6652055|48-A/G 6652132|43-T/C 6652144|17-G/A 6652212|22-A/G 6652231|38-C/A 6652386|55-C/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652398|40-G/A 6652413|28-C/A 6652427|27-T/A 6652438|68-G/A 6652494|24-T/C 6652515|15-A/G 6652518|57-T/C 6652535|53-G/T 6652564|55-A/G 6652619|16-T/C 6652816|67-C/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.009049587 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652945|37-C/A 6653041|46-A/G 6653142|49-C/A 6653144|56-G/T 6653148|46-A/C 6653163|62-T/C 6653369|63-C/T 6653408|40-T/C 6653429|7-A/G 6653439|17-G/C 6653493|47-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.008230312 0.000000000   
## 6653501|7-C/T 6653502|28-G/C 6653504|7-C/G 6653563|7-T/A 6653593|19-T/C 6653740|20-C/T 6653755|14-T/C 6653790|16-T/G 6653834|11-T/C 6653851|28-A/C 6653936|33-A/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004474250 0.000000000 0.000000000   
## 6653989|22-G/A 6654038|30-G/A 6654047|8-G/A 6654066|45-C/G 6657075|25-A/C 6657215|14-A/T 6657652|33-T/C 6658198|15-T/C 6658380|19-G/A 6658597|10-T/C 6661103|59-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004357278 0.000000000   
## 6661108|53-A/G 6661557|11-G/A 6661627|50-T/C 6661879|7-T/C 6662888|24-C/A 6662892|24-C/T 6664359|17-A/T 6664391|17-A/G 6664780|11-C/T 6665039|22-C/G 6666100|22-C/T   
## 0.004301055 0.004796135 0.000000000 0.006514588 0.000000000 0.000000000 0.000000000 0.000000000 0.004750567 0.000000000 0.000000000   
## 6666102|30-T/C 6654102|57-C/A 100016395|29-T/C 100020724|58-C/T 100022521|22-C/T 100022955|34-C/A 100045457|17-G/A 100073683|46-G/A 100093512|17-C/G 100102305|42-T/G 100121708|34-C/G   
## 0.000000000 0.000000000 0.006557306 0.000000000 0.000000000 0.000000000 0.006309085 0.000000000 0.000000000 0.000000000 0.000000000   
## 6650447|47-T/C 6650456|36-A/G 6650499|21-C/T 6650502|55-C/G 6650518|44-C/T 6650566|9-A/G 6650589|18-C/T 6650595|24-C/T 6650602|41-G/A 6650625|38-T/C 6650630|7-C/G   
## 0.006920332 0.000000000 0.000000000 0.000000000 0.010470914 0.000000000 0.000000000 0.004123694 0.004157986 0.000000000 0.000000000   
## 6650642|21-G/A 6650708|55-C/A 6650731|33-G/A 6650777|15-G/C 6650798|22-T/C 6650874|54-T/G 6650892|52-T/C 6650926|30-T/C 6650951|18-A/G 6650983|20-T/G 6651002|11-G/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004597677   
## 6651006|19-G/A 6651015|9-T/A 6651028|11-C/T 6651064|34-C/G 6651075|68-C/T 6651082|17-A/G 6651108|57-A/T 6651169|15-T/C 6651211|35-G/A 6651214|29-G/C 6651218|36-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.005089025   
## 6651236|9-A/C 6651265|9-G/A 6651293|36-A/T 6651299|48-A/G 6651311|22-C/T 6651316|37-T/G 6651339|7-G/A 6651360|17-C/A 6651411|25-A/G 6651455|40-A/G 6651480|6-A/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004494359 0.000000000   
## 6651535|17-G/C 6651553|40-C/T 6651633|11-G/C 6651642|43-A/C 6651652|13-T/A 6651653|46-A/T 6651666|39-C/A 6651668|54-T/C 6651692|43-T/C 6651779|57-A/G 6651819|25-G/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651894|54-A/G 6651913|20-A/G 6651928|6-C/T 6651950|10-C/T 6651962|57-C/T 6651979|59-G/T 6652004|68-A/T 6652041|41-T/C 6652076|24-T/G 6652082|47-A/G 6652128|6-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.005089025 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652178|42-C/T 6652228|29-C/T 6652229|59-T/C 6652252|11-C/T 6652279|53-A/T 6652302|43-G/A 6652328|42-T/G 6652402|15-A/G 6652405|52-T/C 6652430|41-A/T 6652442|59-A/G   
## 0.024687500 0.000000000 0.004683815 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652444|19-A/C 6652476|42-G/A 6652478|11-G/T 6652495|5-G/A 6652517|8-A/G 6652531|35-T/C 6652633|57-C/A 6652685|43-G/A 6652711|52-C/T 6652775|11-G/A 6652812|20-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.005899653 0.000000000 0.004728106   
## 6652825|12-T/C 6652846|44-A/G 6652876|5-G/A 6652899|47-T/G 6652923|25-T/A 6652938|38-G/A 6652954|34-G/A 6652977|48-A/C 6653056|35-C/G 6653113|5-G/A 6653221|12-A/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653285|45-G/C 6653299|45-T/C 6653300|45-T/C 6653301|16-C/T 6653302|10-C/T 6653314|19-C/A 6653350|22-C/T 6653402|19-G/T 6653488|18-C/T 6653495|56-A/T 6653519|51-A/G   
## 0.000000000 0.008733456 0.000000000 0.004842586 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.007781982 0.000000000   
## 6653534|60-C/T 6653576|42-C/A 6653592|23-G/A 6653671|64-C/A 6653680|17-G/A 6653685|30-G/A 6653711|10-T/A 6653718|49-A/C 6653737|54-G/A 6653753|52-T/C 6653780|36-C/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653880|38-A/G 6653900|13-T/A 6653944|44-G/A 6653977|55-A/G 6653997|67-G/A 6654006|12-T/C 6654014|37-G/A 6654041|11-A/G 6654055|10-A/G 6654086|14-G/A 6654088|35-T/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004866151 0.000000000   
## 6656956|22-A/G 6657047|46-C/T 6657188|43-C/G 6657327|42-G/C 6657536|7-A/G 6657721|47-G/C 6657808|17-T/A 6657912|46-T/G 6658001|44-A/T 6658011|9-C/A 6658107|14-C/G   
## 0.000000000 0.000000000 0.000000000 0.004140769 0.005063259 0.000000000 0.000000000 0.000000000 0.004123694 0.000000000 0.010049995   
## 6658156|5-G/T 6658199|15-T/C 6658229|33-G/T 6658234|5-T/G 6658254|27-T/C 6658284|37-G/A 6658292|22-T/C 6658327|20-A/G 6658407|20-G/A 6658414|11-G/A 6658562|19-G/T   
## 0.000000000 0.000000000 0.004157986 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6658586|32-A/C 6658643|11-C/T 6658671|14-C/T 6661089|25-T/C 6661118|54-A/G 6661135|53-G/A 6661189|30-T/C 6661215|39-T/G 6661222|65-T/A 6661248|53-C/G 6661249|13-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6661292|48-T/C 6661362|55-T/C 6661374|18-A/G 6661410|32-G/T 6661422|22-C/T 6661440|5-C/T 6661444|36-A/G 6661467|8-T/G 6661491|67-G/C 6661502|37-A/T 6661590|51-A/C   
## 0.000000000 0.000000000 0.005970096 0.000000000 0.004576635 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6661599|28-A/G 6661630|50-G/A 6661635|15-T/C 6661640|37-T/A 6661680|9-C/G 6661723|32-C/T 6661736|14-G/C 6661758|19-G/A 6661804|60-A/G 6661810|40-A/C 6661811|44-T/A   
## 0.005194770 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004157986 0.000000000   
## 6661811|67-G/A 6661833|57-C/T 6661841|11-G/A 6661855|40-T/C 6661864|19-T/A 6661882|41-A/G 6661883|8-G/A 6661885|20-A/T 6662600|6-A/G 6662722|30-G/C 6662742|10-A/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004395583 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6662844|10-A/C 6662885|9-G/T 6662886|27-C/T 6662910|18-C/G 6662926|18-T/C 6663096|18-A/T 6663907|45-A/G 6663910|8-C/T 6663965|32-C/T 6663983|49-G/C 6663986|51-T/A   
## 0.004228311 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6664025|20-C/T 6664038|20-G/A 6664063|32-G/A 6664295|6-G/A 6664431|31-A/G 6664713|15-G/A 6665122|10-A/C 6665220|17-C/T 6665221|28-T/C 100109498|18-A/G 100109477|15-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100109477|9-A/C 6665568|14-T/C 6665571|10-T/C 6665805|26-C/G 6666099|20-C/T 6666516|59-G/A 100124929|12-A/G 100016665|5-A/G 100016860|40-G/A 100019055|15-C/A 100019486|67-T/C   
## 0.000000000 0.000000000 0.004357278 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100020835|48-C/G 100044994|33-G/A 100064828|9-G/T 100064931|32-G/A 100065941|26-T/C 100073522|28-A/G 100081694|12-C/T 100093694|8-T/G 100114698|38-A/T 100121709|38-A/G 6631771|63-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6643511|8-T/C 6650389|25-A/G 6650408|50-C/T 6650436|33-G/A 6650531|50-G/A 6650573|57-G/A 6650637|15-T/C 6650654|52-A/C 6650710|46-T/G 6650720|22-A/T 6650779|16-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004175347 0.000000000   
## 6650822|27-G/A 6650832|27-T/C 6650901|27-G/A 6650902|39-G/T 6650937|10-A/G 6650960|65-A/G 6651019|62-A/G 6651142|65-T/C 6651204|9-G/A 6651227|47-C/T 6651280|20-T/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651418|16-G/T 6651508|15-G/T 6651574|38-G/T 6651577|11-A/G 6651598|31-T/C 6651697|15-C/T 6651725|7-T/C 6651760|20-A/T 6651762|50-A/G 6651788|15-A/G 6651792|9-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.006514588 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651793|43-T/C 6651862|51-C/T 6651882|23-G/A 6651884|35-A/C 6651903|16-A/G 6651924|35-T/C 6651929|41-G/T 6651993|33-G/A 6651998|13-G/T 6652029|51-G/A 6652043|18-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.004414989 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652138|37-A/G 6652167|65-C/G 6652206|59-C/A 6652238|26-C/T 6652289|28-A/T 6652298|67-A/G 6652307|44-C/A 6652334|58-A/T 6652336|15-C/A 6652366|34-C/A 6652425|29-A/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004705856 0.000000000 0.000000000   
## 6652524|49-C/T 6652588|40-G/T 6652613|43-C/G 6652632|21-A/G 6652778|29-G/A 6652802|13-A/T 6652819|42-A/C 6652826|14-T/C 6653026|52-G/C 6653068|62-G/C 6653116|22-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004454321 0.000000000 0.000000000   
## 6653218|66-C/G 6653354|23-C/A 6653444|44-G/T 6653464|25-A/G 6653494|25-G/A 6653568|59-G/C 6653672|51-G/T 6653690|24-G/C 6653700|47-T/C 6653713|41-T/C 6653736|20-T/A   
## 0.000000000 0.004319634 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653875|30-C/T 6653968|66-C/G 6653974|33-T/A 6653991|65-G/T 6657021|28-G/A 6657102|16-C/T 6657128|18-G/A 6657132|5-A/C 6657178|34-G/A 6657193|53-C/T 6657201|19-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.007117347 0.004728106 0.000000000 0.000000000   
## 6657204|30-A/C 6657318|9-G/A 6657354|8-C/T 6657383|35-G/T 6657458|5-C/G 6657566|43-G/A 6657607|43-G/A 6657631|9-G/A 6657655|8-T/C 6657745|21-C/A 6657813|21-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6657950|26-T/C 6658016|18-C/G 6658025|28-G/A 6658074|26-C/A 6658086|13-T/C 6658116|19-T/G 6658140|8-T/C 6658176|39-C/T 6658256|13-G/C 6658270|50-G/T 6658309|15-G/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6658382|35-G/A 6658386|9-G/T 6658396|48-A/T 6658416|19-T/C 6658448|12-A/G 6658539|20-A/G 6658593|6-T/C 6658605|5-T/A 6658616|40-G/T 6658646|18-C/A 6661133|7-C/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6661179|34-A/T 6661195|26-A/G 6661294|16-G/T 6661342|14-G/C 6661347|62-A/G 6661359|29-T/C 6661360|12-T/C 6661375|25-G/A 6661390|29-G/A 6661411|10-A/T 6661415|7-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6661429|43-A/G 6661461|24-A/G 6661525|21-A/G 6661561|6-A/G 6661611|46-A/C 6661622|45-G/T 100097038|21-G/A 6661741|18-C/T 6661767|9-T/C 6661768|5-T/C 6661780|15-A/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.005012500 0.000000000 0.026196257 0.000000000 0.000000000 0.000000000 0.000000000   
## 6661784|18-A/G 6661801|15-C/T 6662572|23-G/A 6662577|20-C/A 6662598|13-T/G 6662619|18-C/T 6662621|6-C/T 6662686|27-C/T 6662729|33-C/T 6662743|22-C/T 6662903|44-T/C   
## 0.005970096 0.000000000 0.000000000 0.000000000 0.000000000 0.013071330 0.000000000 0.006116150 0.004157986 0.000000000 0.000000000   
## 6664062|57-T/C 6664077|54-G/T 6664087|35-A/T 6664282|11-G/A 6664352|17-T/G 6664715|34-G/A 6665049|6-C/T 6665121|17-A/G 6665508|35-A/G 6665515|61-A/G 6665540|8-G/A   
## 0.007168366 0.000000000 0.000000000 0.004796135 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004514650 0.000000000   
## 6665849|33-C/T 6666095|7-A/G 6666174|7-C/T 6666520|31-G/A 100015941|21-T/C 100016251|35-G/A 100016732|29-G/A 100045346|24-C/T 100045582|33-G/A 100045632|7-G/A 100064767|54-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004123694 0.000000000 0.004683815 0.000000000   
## 100064928|53-G/A 100065927|39-C/T 100074119|31-T/C 100082416|45-C/A 100085968|36-G/A 100091287|38-A/T 100093420|8-G/A 100104859|48-T/C 100121707|24-C/G 6650478|7-C/T 6650577|59-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6650765|26-G/A 6651007|49-A/G 6651119|61-A/G 6651133|33-C/T 6651237|16-C/T 6651693|21-C/T 6651704|49-G/T 6651952|32-C/T 6652155|42-G/C 6652275|21-C/T 6652283|16-C/T   
## 0.000000000 0.000000000 0.004514650 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652292|40-G/A 6652303|27-C/T 6652553|13-A/G 6652626|33-A/G 6652630|7-G/C 6652656|7-T/C 6652758|10-G/A 6653200|23-C/A 6653877|30-A/G 6653984|20-G/T 6656875|8-A/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004192854 0.000000000   
## 6656924|30-G/C 6656996|5-A/T 6657117|41-C/T 6657154|6-G/A 6657156|29-A/C 6657483|18-T/G 6657561|6-C/T 6657735|31-T/A 6657741|7-G/A 6657814|9-A/G 6657850|12-C/G   
## 0.000000000 0.000000000 0.000000000 0.007721892 0.000000000 0.000000000 0.000000000 0.000000000 0.004683815 0.004246265 0.000000000   
## 6657942|13-C/G 6657997|45-C/T 6658062|30-T/G 6658550|29-A/G 6658582|12-C/G 6658632|5-T/C 6661273|54-T/A 6661308|52-T/C 6661408|14-C/T 6661538|9-G/A 6661791|66-G/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.010256138 0.000000000 0.000000000 0.000000000   
## 6661818|22-G/A 6662638|5-A/G 6662824|38-C/T 6662887|8-G/C 6663037|41-C/G 6664882|7-A/C 6665050|32-A/T 6665295|5-T/C 100019888|47-T/C 100045453|46-G/A 100045704|9-A/G   
## 0.000000000 0.000000000 0.004264373 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100064586|17-G/C 100066059|7-C/T 100074054|47-T/A 100082120|8-T/C 100086057|9-A/G 100086096|24-G/T 100093333|41-G/C 100098548|28-A/G 100104693|28-T/A 100104890|20-C/A 100106918|8-T/C   
## 0.000000000 0.000000000 0.010581711 0.000000000 0.004246265 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100086278|15-A/T 100098561|7-T/A 100112393|13-T/C 6665409|19-C/A 100106209|11-T/A 6652014|36-G/A 100016895|29-G/A 6661843|44-G/A 6652389|64-T/C 6661649|50-A/C 6657666|21-A/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.012473521 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.009523591   
## 6661268|63-T/G 100023082|28-G/T 100017188|42-C/G 6661288|45-T/C 100021319|48-T/G 100045470|27-C/T 6661435|57-G/T 100065514|5-T/C 6630387|13-C/T 100065726|10-C/T 6653782|5-C/T   
## 0.000000000 0.000000000 0.004454321 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.006733930   
## 100021899|36-A/T 100066454|16-G/T 100065272|30-T/C 100066129|22-G/A 6653374|61-T/C 6664733|54-T/A 100022349|67-T/A 100015942|46-A/C 100016792|52-G/C 100018206|33-G/A 100064825|31-G/T   
## 0.000000000 0.000000000 0.032249395 0.006557306 0.000000000 0.012345203 0.000000000 0.000000000 0.004454321 0.000000000 0.000000000   
## 100066202|30-T/C 100073401|49-C/A 6633382|47-T/C 100021640|61-G/C 100022856|29-A/C 100023978|37-A/T 6652591|64-T/C 6661464|50-T/A 100015796|50-T/A 100016769|29-T/C 100019373|29-G/A   
## 0.000000000 0.000000000 0.006920332 0.000000000 0.000000000 0.004535124 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100023055|35-A/T 100097014|5-T/G 6661225|60-T/C 6661548|33-A/T 100017088|61-C/T 100023509|31-T/C 100015492|43-G/A 100018948|22-T/C 100020108|6-G/A 100020234|29-G/C 100021104|60-G/C   
## 0.000000000 0.004434568 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.009090720 0.004454321   
## 100022438|10-G/T 100065777|27-G/T 6634350|32-G/T 100015248|33-A/G 100016465|17-G/A 100016470|38-G/A 100017055|22-C/A 100020326|38-A/G 100020580|5-T/G 100020916|54-A/T 100022162|26-G/C   
## 0.004210508 0.000000000 0.004796135 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100022968|12-G/A 100023214|50-T/C 100023558|48-A/G 100065527|10-A/G 100108046|10-C/G 6652805|19-C/T 6653649|51-C/A 100016806|34-T/C 100016973|34-G/A 100017185|9-C/T 100019652|10-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.008810400 0.000000000   
## 100020977|12-T/C 100021791|20-G/A 100064895|33-A/T 100064988|25-T/C 6653972|28-A/G 6658602|21-G/C 100015510|28-A/T 100016175|6-T/C 100016191|14-G/A 100018397|31-G/T 100019542|48-A/C   
## 0.004494359 0.005037751 0.000000000 0.000000000 0.005194770 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100020295|21-C/T 100020374|38-T/C 100021678|59-A/G 100066638|43-T/G 6653330|11-G/A 100015953|68-T/C 100016139|30-C/T 100016326|61-C/T 100016487|19-G/T 100016577|32-A/G 100016760|26-T/A   
## 0.000000000 0.000000000 0.000000000 0.004228311 0.000000000 0.000000000 0.000000000 0.005141354 0.000000000 0.005361892 0.000000000   
## 100016954|51-G/A 100017145|65-A/G 100017289|41-G/C 100017927|57-A/G 100019119|41-A/C 100019129|28-A/G 100020392|13-C/T 100021327|23-G/A 100022094|8-A/T 100023476|68-C/T 100065094|17-G/A   
## 0.000000000 0.000000000 0.000000000 0.007604452 0.009049587 0.000000000 0.000000000 0.000000000 0.000000000 0.004494359 0.000000000   
## 100082310|17-G/A 100091292|53-C/T 6633859|61-C/G 6651602|9-A/G 6653320|67-A/G 100015805|62-G/A 100016005|36-T/C 100017432|35-A/G 100019685|30-C/T 100020281|34-T/C 100020816|17-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.005249307 0.000000000 0.012902682 0.000000000 0.000000000 0.010100750 0.000000000   
## 100020920|57-A/G 100021124|31-G/T 100021513|63-A/G 100021836|10-G/A 100022515|43-C/T 100023216|57-G/T 100023496|7-C/T 100023681|60-G/A 100065088|33-A/T 100065666|45-T/C 100066471|53-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.008733456 0.000000000   
## 6652033|13-A/C 6661430|6-G/T 6661570|26-C/T 6661730|63-G/C 100016186|12-C/A 100016774|44-T/A 100017111|47-A/G 100017208|21-G/A 100017523|52-T/C 100017874|53-A/G 100018144|64-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.010256138 0.008583532 0.004301055   
## 100018225|53-A/G 100018942|41-G/T 100019677|5-A/G 100022269|27-A/T 100066082|15-C/A 100066253|43-C/A 100066444|14-G/A 100114672|22-C/T 6651282|60-A/T 6651428|21-T/C 6652874|33-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100015264|22-A/T 100015814|11-C/G 100015850|40-T/C 100016120|45-G/A 100017115|64-C/T 100017958|17-G/A 100018308|19-A/G 100018683|52-C/T 100019218|10-T/C 100019222|23-G/C 100020050|41-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100020331|13-C/T 100020335|6-A/C 100021226|41-T/G 100021502|29-G/A 100021862|6-G/A 100021994|17-A/G 100022357|61-G/A 100022781|47-C/T 100023182|23-A/G 100023311|52-A/T 100023534|68-C/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.007843016 0.008849383 0.000000000 0.000000000   
## 6653500|12-A/G 6661123|54-G/C 6665401|24-G/T 100015499|31-G/A 100015907|12-G/C 100016631|34-T/C 100019009|45-G/A 100019123|42-G/A 100019424|28-A/G 100019445|67-A/C 100019654|17-C/T   
## 0.000000000 0.000000000 0.014813990 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100020359|57-A/G 100020876|63-C/T 100022261|20-C/T 100022625|36-A/G 100023251|49-T/A 100090852|5-C/T 6653799|6-G/A 6661647|17-A/C 100015702|42-C/T 100015896|29-T/C 100016097|8-A/G   
## 0.007604452 0.004338374 0.000000000 0.000000000 0.000000000 0.013422206 0.000000000 0.000000000 0.004157986 0.000000000 0.000000000   
## 100016416|52-T/A 100016914|9-T/G 100017736|15-G/C 100018093|40-G/C 100018383|12-A/G 100018805|31-A/G 100018914|23-G/A 100019000|63-T/G 100019412|18-C/T 100019519|62-G/C 100019671|36-A/G   
## 0.000000000 0.004157986 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.005089025   
## 100019895|42-T/C 100020000|31-A/G 100020210|64-C/T 100021670|11-G/A 100021761|67-C/T 100022043|14-T/A 100022106|27-G/A 100022213|48-C/T 100022452|60-C/T 100022997|31-G/A 100065791|46-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004661979 0.000000000 0.000000000 0.000000000   
## 100066265|30-T/C 100066487|11-G/A 100101063|5-T/C 6634524|57-T/A 6652255|33-A/G 6661618|12-C/T 100015912|66-G/T 100015914|56-A/G 100016606|50-T/C 100016946|25-C/A 100017520|47-T/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004535124 0.000000000 0.000000000 0.000000000   
## 100018722|5-C/A 100019526|9-G/A 100019891|44-C/T 100020909|55-A/T 100020985|50-A/G 100021139|33-G/C 100021214|56-G/A 100021255|31-C/T 100021313|59-A/C 100022420|43-T/C 100022458|29-G/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004395583 0.000000000 0.000000000 0.000000000   
## 100022624|40-G/C 100022691|40-C/T 100023114|8-T/A 100023164|37-T/C 100023165|10-C/T 100023475|55-A/G 100024879|34-A/G 6650963|31-A/G 6650995|35-T/C 100015203|28-T/C 100015415|9-G/T   
## 0.000000000 0.000000000 0.004192854 0.000000000 0.000000000 0.000000000 0.004555785 0.000000000 0.000000000 0.000000000 0.000000000   
## 100015496|59-G/T 100015847|60-G/C 100015873|28-A/C 100015977|34-A/G 100016012|21-A/C 100016160|65-G/A 100016617|11-C/G 100016919|15-T/A 100016933|17-A/C 100017138|9-G/C 100017592|13-G/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004454321 0.004414989 0.000000000   
## 100017929|18-A/C 100018201|42-T/G 100018285|15-G/A 100018596|39-G/A 100018944|19-C/A 100019340|48-A/G 100019515|10-G/A 100019761|17-G/A 100019817|32-A/G 100020455|16-G/A 100020993|47-T/C   
## 0.004773242 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.005361892 0.000000000 0.000000000   
## 100022157|60-A/G 100023102|7-C/T 100045024|30-A/C 100065312|53-G/T 100066063|67-C/T 100066423|46-G/A 6634305|33-C/G 6651275|16-A/C 6652010|36-G/A 6661116|34-A/C 6664719|65-C/G   
## 0.008657845 0.000000000 0.000000000 0.000000000 0.005970096 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100015734|66-G/C 100015877|41-T/C 100016028|28-G/T 100016794|51-C/G 100016930|62-C/T 100016976|17-C/G 100017073|58-C/A 100017352|5-T/A 100017471|13-G/C 100017594|43-T/C 100017596|13-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.004106759 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100018057|54-A/T 100018384|20-C/A 100018436|8-C/T 100018459|29-C/T 100018601|57-C/A 100018886|5-G/C 100019401|38-C/A 100019538|40-A/G 100019682|13-G/C 100019773|68-G/T 100019884|7-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100020084|63-C/A 100020358|5-G/C 100020410|17-G/T 100020846|22-A/G 100021982|22-G/C 100022352|35-G/C 100023106|5-T/A 100023435|47-T/A 100023548|13-A/T 100064672|55-C/T 100091227|51-T/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.007781982 0.000000000 0.000000000 0.000000000 0.000000000   
## 100121014|17-C/T 6653240|15-A/T 100015605|26-A/G 100015623|29-T/A 100015712|9-A/T 100015915|16-G/C 100016293|25-T/A 100016319|36-T/C 100016723|21-C/T 100017173|15-T/A 100017697|22-G/A   
## 0.015624031 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.012902682 0.000000000 0.000000000 0.006557306   
## 100018492|22-T/C 100018548|16-C/T 100018796|68-C/T 100018865|11-C/A 100018936|13-C/T 100019019|18-A/G 100019086|21-G/A 100019131|12-T/C 100019765|29-C/T 100019951|22-C/T 100020346|50-T/C   
## 0.004301055 0.000000000 0.008968428 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004576635 0.000000000   
## 100021253|53-T/C 100021441|53-T/C 100021634|50-A/C 100021664|5-T/C 100021900|25-G/C 100021918|16-G/C 100021944|59-G/C 100022064|57-C/T 100022439|9-G/A 100022958|60-G/A 100023335|10-T/C   
## 0.000000000 0.004319634 0.000000000 0.005602197 0.000000000 0.000000000 0.004705856 0.000000000 0.004210508 0.004338374 0.000000000   
## 100066167|17-A/C 6652225|65-T/C 6653132|37-C/T 6653692|35-T/A 6661742|53-G/T 6663972|39-G/A 6664076|30-T/C 100015254|42-A/G 100015421|66-C/T 100017443|50-T/A 100018227|9-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.009049587 0.000000000 0.000000000 0.000000000   
## 100018684|33-T/C 100019036|18-A/C 100019346|5-C/T 100019642|57-C/T 100020216|59-T/G 100020462|12-G/T 100020825|41-T/A 100021447|5-C/T 100021487|10-A/G 100022350|27-C/T 100022637|44-C/T   
## 0.004434568 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100022974|38-G/A 100023108|17-G/A 100023245|57-A/T 100023390|19-G/A 100023533|34-T/C 100064760|51-A/T 100064984|7-A/T 6635254|28-C/T 6650882|51-G/T 6651794|65-C/A 6652456|5-G/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.005063259 0.000000000 0.000000000 0.000000000 0.004301055 0.000000000 0.000000000   
## 6652956|28-T/C 6653074|11-G/T 6653246|55-C/T 6653257|11-T/C 6653558|37-T/C 6653841|24-C/G 6661717|50-A/G 100015306|34-G/T 100017026|18-T/C 100017183|63-A/C 100017740|39-T/C   
## 0.000000000 0.004597677 0.000000000 0.000000000 0.000000000 0.004319634 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100018186|14-G/A 100018502|54-A/C 100019407|9-A/G 100019597|22-G/T 100019799|11-C/T 100020064|5-A/G 100020467|61-C/G 100021342|19-T/G 100021726|23-G/T 100021853|38-A/G 100022073|47-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004819249 0.000000000   
## 100022174|61-T/C 100022237|64-T/G 100022450|28-C/T 100023247|11-G/A 100024830|48-A/T 100065475|5-A/C 100065743|19-C/T 6651542|50-G/C 6652006|5-C/A 6652136|34-G/A 6652490|28-C/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653164|33-G/T 6661138|57-G/A 6661286|13-C/T 100015294|55-T/C 100015312|26-G/C 100015717|58-T/C 100016035|58-C/T 100017166|55-C/G 100017336|19-C/T 100017436|6-T/A 100018333|8-T/C   
## 0.000000000 0.026139204 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004210508 0.000000000 0.000000000 0.000000000   
## 100018623|26-G/A 100018949|25-G/A 100019179|31-T/A 100019378|46-T/C 100019715|11-C/T 100020007|20-C/A 100020186|42-A/T 100020325|12-G/A 100020984|22-A/T 100021063|19-C/T 100021116|47-G/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100021276|48-T/C 100021323|21-A/G 100023352|36-C/T 100023524|20-T/A 100064607|25-T/A 100064666|61-G/A 100066449|6-A/G 100104023|51-G/T 6651556|12-T/C 6651732|66-T/C 6652161|13-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.015266272 0.000000000 0.000000000 0.000000000 0.000000000 0.011695502 0.000000000   
## 6653042|9-A/T 6661220|17-G/T 100015287|46-T/C 100015379|18-A/G 100015449|18-T/C 100016230|18-C/G 100016245|55-T/C 100016437|62-T/C 100017249|15-G/A 100018724|8-T/C 100018729|20-A/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004474250 0.000000000 0.000000000   
## 100018771|32-C/T 100019308|38-T/C 100019625|33-C/T 100019716|25-C/T 100020654|61-G/A 100021098|19-A/T 100021170|5-G/C 100021240|55-G/C 100021330|41-C/T 100021985|6-G/C 100022470|47-C/T   
## 0.000000000 0.000000000 0.004157986 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100022786|9-C/T 100022992|63-G/C 100023087|65-T/C 100023089|12-A/T 100065113|20-C/T 100065660|34-T/C 100082081|14-T/C 6650676|61-A/G 6650683|35-G/A 6650847|62-G/T 6651376|46-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.004319634 0.000000000 0.000000000 0.004514650 0.000000000 0.000000000 0.000000000   
## 6651698|17-A/G 6652341|11-G/A 6652418|6-T/A 6652657|13-T/C 6653549|37-G/A 6653926|47-C/T 6661137|45-A/G 6661795|29-A/G 6664067|38-C/T 100015300|34-C/G 100015553|64-G/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100015662|64-G/A 100015747|67-T/C 100016172|45-C/A 100016321|25-T/C 100016379|15-C/T 100016524|6-T/G 100016678|13-G/A 100017389|39-C/A 100017447|10-T/G 100018638|48-T/C 100019669|13-T/C   
## 0.000000000 0.000000000 0.000000000 0.006116150 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.005633758 0.000000000   
## 100021395|62-G/A 100021505|40-T/C 100021653|13-T/G 100021672|31-T/C 100022109|34-G/A 100022563|58-C/T 100022828|22-T/C 100023017|29-A/T 100066440|62-C/G 100066652|41-G/A 100096906|18-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.006230469 0.000000000 0.000000000 0.000000000 0.004157986 0.000000000   
## 6630114|53-A/C 6650736|10-G/T 6651252|16-C/T 6653034|28-A/G 6653152|22-C/A 6653197|10-T/C 6653543|62-T/A 6653729|12-T/C 6658435|49-C/A 6661280|18-T/C 6661782|19-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.005540123 0.000000000   
## 100015470|41-C/T 100016237|28-C/A 100016452|17-G/A 100016620|23-T/C 100016680|26-G/A 100016867|47-C/T 100016970|8-C/T 100018066|41-A/G 100018458|45-C/T 100018598|40-C/T 100019260|10-C/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100019313|6-T/C 100020459|17-G/C 100022183|15-A/C 100022219|59-T/A 100022324|20-A/T 100022476|18-T/C 100022820|44-T/C 100065830|50-G/A 100073534|35-A/T 100108129|53-C/A 6631518|25-C/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6650419|25-C/G 6650596|64-G/T 6650922|18-T/C 6650997|7-A/G 6651758|26-G/A 6652094|60-T/C 6652276|10-G/A 6652446|14-G/A 6652850|15-T/C 6652911|22-A/G 6653387|31-C/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.008928392 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653442|7-A/G 6653457|43-C/T 6653666|33-A/G 6653913|54-A/G 6661714|10-A/T 6661819|18-T/C 6665305|19-G/A 100015271|40-A/G 100015651|23-C/T 100016940|6-T/G 100017024|68-G/A   
## 0.005063259 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100018261|61-T/C 100018474|24-G/A 100018954|18-A/G 100019606|34-G/A 100019837|9-G/A 100020506|37-T/A 100020651|11-C/G 100021368|14-C/T 100021399|20-A/C 100021433|22-A/C 100021823|21-T/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.007547062 0.000000000 0.000000000 0.000000000   
## 100022483|30-T/A 100022774|66-T/G 100023022|43-C/T 100023206|43-A/G 100023292|16-A/G 100023396|25-C/T 100024289|11-T/C 100045482|25-C/T 100065022|34-A/G 100065562|43-G/A 100065795|26-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004282636 0.000000000   
## 100066292|25-T/C 100073974|41-A/C 100082647|16-C/A 6650814|43-G/C 6650908|37-A/C 6651113|11-C/G 6651346|28-A/T 6651709|24-A/G 6652049|29-T/C 6652500|45-G/T 6652777|22-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.006557306 0.000000000 0.000000000   
## 6653333|13-T/C 6653390|14-T/G 6653414|31-T/C 6653728|20-G/T 6654032|23-T/G 6654037|57-A/G 6657904|10-G/C 6661607|55-C/A 6661700|18-G/A 6662767|16-T/C 6664074|40-T/G   
## 0.000000000 0.000000000 0.000000000 0.004192854 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6664074|44-G/C 6664735|26-T/G 6665238|34-T/C 100124938|57-G/A 100015346|10-T/A 100016456|52-G/C 100016501|31-A/T 100017004|22-C/T 100017283|39-T/G 100017322|41-G/A 100017407|26-G/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100017421|12-A/G 100018243|9-T/C 100018879|32-C/A 100019658|67-A/G 100020347|21-G/C 100021567|15-A/G 100021727|64-T/A 100023434|25-T/C 100066346|64-T/C 100066369|51-A/G 100066626|37-G/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6631525|11-C/T 6650677|49-C/T 6650829|66-C/T 6650865|22-G/T 6651274|64-A/G 6651327|26-G/A 6651363|38-T/A 6651684|66-A/G 6652046|31-A/G 6652267|48-T/C 6652284|17-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652529|31-T/C 6652900|9-A/G 6653610|43-G/T 6653665|46-C/T 6653751|12-A/T 6653876|40-A/G 6654005|53-G/A 6654018|46-G/A 6661150|29-C/G 6661536|5-G/A 6664750|33-C/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100103994|12-C/T 100103994|20-G/A 100104021|9-A/G 100015729|18-T/G 100015952|21-T/A 100016302|16-G/A 100016507|10-G/T 100016962|46-C/T 100017543|65-T/C 100018176|18-T/A 100018259|44-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.004282636 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100019881|23-C/A 100019923|11-A/T 100020081|6-T/A 100020349|28-G/T 100022424|20-G/A 100023400|43-G/T 100044682|9-A/G 100044750|30-A/G 100065250|9-G/T 100065326|31-T/A 100065589|31-A/G   
## 0.004319634 0.000000000 0.000000000 0.000000000 0.005037751 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100066526|17-G/A 100091166|12-G/A 100091166|42-A/G 6650613|48-C/T 6650687|41-T/G 6650796|6-C/T 6650803|47-G/C 6651101|36-C/G 6651528|20-A/T 6651771|12-T/C 6651853|15-T/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652025|35-C/T 6652815|7-T/G 6652936|53-A/C 6653177|8-T/G 6653241|40-G/T 6653293|49-G/A 6653307|12-A/G 6653389|28-A/G 6653538|48-T/C 6653579|57-T/A 6653832|7-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6661683|57-A/G 6661685|63-G/A 6661816|48-A/G 6661824|42-G/C 6661850|36-A/T 6661890|47-A/G 6665337|42-A/G 100015757|13-C/T 100016204|33-T/C 100017468|57-G/T 100017967|62-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100018112|46-A/C 100018165|13-C/T 100018718|21-G/A 100019849|5-G/A 100019859|8-G/A 100022136|24-T/C 100022312|53-T/C 100045521|11-T/G 100065432|12-T/G 100065536|20-G/A 100066606|52-G/T   
## 0.005012500 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100082316|6-G/A 100082368|14-T/G 100097022|6-T/C 100108129|36-G/A 6631225|7-T/C 6631997|14-C/T 6650612|10-C/T 6650648|12-C/G 6651035|6-G/A 6651242|13-G/A 6651289|37-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651290|54-T/A 6651373|58-C/T 6651393|29-G/A 6651401|31-A/G 6651427|13-G/A 6651437|43-G/C 6651445|36-G/T 6651476|13-C/T 6651646|25-A/G 6651749|48-G/A 6651841|8-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652088|32-C/T 6652192|52-C/A 6652260|63-T/C 6652326|50-G/A 6652369|31-T/C 6652422|33-T/C 6652547|9-G/T 6652893|32-T/A 6652909|24-T/G 6652955|18-G/C 6653017|55-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004434568 0.000000000 0.000000000 0.000000000 0.000000000 0.004454321   
## 6653103|52-T/G 6653677|36-T/C 6653708|16-C/G 6653903|37-A/G 6653934|25-C/T 6654040|14-T/C 6654091|9-T/C 6657832|39-T/C 6661183|41-T/C 6661274|44-G/C 6661675|22-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6663998|37-C/T 6664011|37-G/C 100016463|53-T/C 100016812|38-G/A 100017567|49-A/C 100017961|50-G/T 100018143|16-G/A 100019099|54-T/G 100019383|33-G/T 100019940|39-C/T 100020427|36-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004157986 0.000000000 0.000000000   
## 100020660|8-T/A 100020677|22-A/G 100021361|48-T/C 100021511|43-C/T 100021828|33-C/A 100022057|11-A/G 100022783|26-C/T 100064616|40-A/G 100065171|45-C/G 100065966|15-C/G 100082527|51-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100082585|40-G/A 100106949|10-G/A 100117044|51-G/C 6650418|9-G/T 6650423|29-A/G 6650818|67-C/T 6651153|49-G/T 6651180|65-A/T 6651287|48-A/C 6651447|19-T/C 6651655|40-A/G   
## 0.000000000 0.063280636 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651717|7-T/C 6651971|61-A/G 6651981|50-T/G 6652195|35-T/C 6652270|30-C/T 6652411|8-G/A 6652419|17-C/T 6652451|65-G/A 6652920|22-G/A 6653067|56-T/C 6653377|17-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653583|28-T/C 6653636|14-A/G 6653697|13-T/C 6653731|66-C/T 6653767|20-G/C 6653770|20-C/G 6653784|35-T/C 6653810|62-C/A 6653854|42-T/C 6653892|54-G/A 6653910|50-T/C   
## 0.004819249 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6654022|30-A/G 6661470|52-C/A 100066269|13-T/C 6662979|27-T/C 6664013|56-T/C 6664771|32-C/T 6665036|59-T/C 100015387|20-A/C 100016289|59-C/A 100017196|51-G/T 100017527|6-T/A   
## 0.000000000 0.000000000 0.045951557 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100017670|46-C/A 100018265|14-C/T 100018491|67-A/C 100019232|26-T/C 100019318|16-T/A 100019703|50-G/A 100019708|6-A/G 100019897|65-G/A 100020477|33-C/T 100022633|31-A/G 100023423|28-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004106759 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100064644|53-C/T 100065127|11-C/T 100082124|16-C/G 6632526|27-G/T 6650445|31-C/T 6650584|38-A/G 6650848|20-G/A 6651173|50-C/A 6651298|24-T/G 6651530|41-T/C 6651782|31-G/A   
## 0.000000000 0.000000000 0.000000000 0.008695486 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651907|9-T/C 6652024|30-A/G 6652131|34-G/A 6652159|67-C/T 6652177|21-C/T 6652210|27-C/A 6652401|28-T/A 6652416|68-C/G 6652713|26-G/C 6652866|10-G/A 6652983|43-C/A   
## 0.000000000 0.000000000 0.004728106 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653039|43-G/C 6653044|17-A/G 6653092|18-T/C 6653202|68-T/A 6653253|13-C/G 6653255|39-G/T 6653445|25-C/G 6653487|29-C/T 6653527|21-G/A 6653922|36-T/C 6653930|13-A/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6654013|57-T/G 6657669|38-C/T 6658619|38-A/G 6661144|14-T/C 6661228|61-G/A 6661239|28-A/G 6661757|61-G/A 6661837|5-T/C 6663958|42-G/C 6664017|22-C/T 6665345|60-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.005602197 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6665563|37-A/C 6665563|41-G/A 6665563|7-C/T 6666102|24-A/G 100015848|14-C/A 100016751|21-G/A 100017832|10-T/C 100017856|21-A/G 100018301|7-A/G 100019450|10-C/A 100019818|16-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.008031998   
## 100019983|13-A/G 100020502|50-G/A 100020602|47-A/G 100065169|68-T/C 100066267|15-G/A 100066657|20-C/G 6632946|54-T/A 6650395|54-T/C 6650450|36-T/C 6650539|5-T/C 6650675|13-G/T   
## 0.008474423 0.000000000 0.000000000 0.000000000 0.004474250 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6650760|49-T/G 6650770|63-T/C 6650778|15-A/G 6650888|42-T/A 6650948|22-G/A 6651067|68-T/C 6651104|14-T/C 6651269|64-A/G 6651380|66-C/A 6651460|39-T/A 6651469|31-G/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651565|25-G/T 6651594|47-T/G 6651714|59-A/T 6651809|19-T/C 6651814|64-A/G 6652119|10-C/T 6652183|53-C/T 6652218|58-G/A 6652272|46-C/A 6652443|56-C/T 6652587|38-G/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.004301055 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652614|24-T/A 6652643|8-A/T 6652647|54-C/A 6652695|37-C/T 6652702|52-A/C 6652729|55-C/G 6652886|48-T/A 6653028|14-A/G 6653065|44-C/T 6653124|7-G/C 6653205|17-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.007843016   
## 6653210|45-C/A 6653524|37-T/G 6653532|60-C/T 6653787|34-A/G 6653818|55-C/T 6653820|23-G/A 6653825|25-G/A 6653908|59-C/G 6653938|33-G/A 6656975|12-C/G 6658434|32-G/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.006779583 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6661131|30-C/A 6661170|60-C/T 6661460|63-C/T 100082330|10-C/T 6661516|30-G/T 6661542|10-A/G 6661650|9-G/A 6661787|54-G/C 6661807|10-G/A 6663931|44-A/G 6663966|33-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6664887|16-T/G 6665234|5-T/A 6666170|37-C/T 100016216|6-C/A 100016431|13-A/G 100016980|14-G/C 100017035|18-A/G 100018089|20-C/A 100018299|18-A/G 100019103|66-G/A 100020260|22-G/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.005970096 0.000000000 0.000000000 0.000000000 0.000000000   
## 100020593|29-A/G 100021233|9-G/T 100022402|38-T/A 100022743|53-G/A 100064690|24-G/C 100065349|19-G/C 100065841|23-T/C 100074065|11-G/A 6650412|48-C/T 6650459|40-G/A 6650487|15-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6650510|49-G/C 6650571|53-C/T 6650575|33-C/T 6650657|31-A/G 6650727|33-T/A 6650764|18-A/G 6650786|30-G/A 6650877|51-A/G 6650982|52-G/T 6650992|26-T/G 6651041|46-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651162|25-G/T 6651244|31-C/A 6651284|8-G/C 6651398|18-G/A 6651485|12-A/G 6651517|35-T/G 6651527|40-C/T 6651546|39-T/C 6651644|49-G/A 6651663|43-G/C 6651671|42-C/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651691|10-G/A 6651700|17-C/A 6651734|47-T/C 6651746|20-C/T 6651800|11-A/G 6651813|5-C/T 6651896|64-A/G 6651912|26-C/G 6651917|68-G/T 6652038|34-C/A 6652059|20-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652081|56-C/G 6652085|6-G/A 6652121|43-A/T 6652134|47-G/C 6652186|30-C/T 6652189|13-A/G 6652281|62-C/G 6652285|54-C/T 6652290|29-T/C 6652304|61-G/T 6652432|55-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652503|20-A/G 6652505|16-A/C 6652521|39-C/T 6652525|37-G/T 6652601|21-T/C 6652602|25-G/C 6652606|48-T/C 6652624|28-T/C 6652668|15-G/C 6652670|16-C/G 6652721|10-T/A   
## 0.000000000 0.016665490 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652733|37-A/G 6652745|53-A/G 6652752|31-C/T 6652791|49-C/A 6652818|11-T/C 6652862|15-A/G 6652881|22-C/A 6652972|10-T/C 6652998|52-A/T 6652999|57-A/G 6653082|48-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653098|9-A/G 6653162|29-G/A 6653274|28-A/G 6653325|64-G/C 6653332|57-G/A 6653357|42-C/T 6653362|53-G/C 6653412|42-A/G 6653426|18-C/T 6653440|10-T/C 6653465|26-C/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653468|58-T/C 6653470|47-G/C 6653503|52-C/T 6653589|18-G/A 6653681|55-A/G 6653716|66-G/A 6653721|50-T/C 6653756|39-T/C 6653768|57-T/C 6653772|52-C/T 6653912|41-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653970|10-G/T 6654035|9-A/T 6654089|34-G/C 6657074|8-C/T 6657427|36-T/G 6658142|19-G/A 6658487|31-A/T 6658567|11-A/G 6661106|67-C/A 6661340|59-C/T 6661404|52-G/C   
## 0.004210508 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6661465|25-C/G 6661493|15-T/C 6661592|37-C/T 6661602|55-A/G 6661729|38-A/G 6661755|5-T/C 6661849|5-T/A 6662667|9-T/C 6663069|39-G/A 6663912|29-A/G 6663945|17-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004414989 0.000000000 0.000000000 0.000000000   
## 6665239|6-A/G 6665353|11-A/G 6665974|11-A/T 6666103|68-G/A 100016182|32-A/G 100017836|20-G/A 100017869|6-A/G 100018411|68-A/C 100020222|50-C/G 100021008|5-T/G 100021734|34-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100021842|6-T/A 100045232|8-G/C 100065195|59-A/G 100074076|12-A/C 100114674|53-G/A 6650380|13-C/T 6650404|10-C/T 6650422|10-A/C 6650471|64-T/C 6650500|18-G/C 6650515|50-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6650537|13-C/T 6650542|10-G/A 6650554|41-G/A 6650556|9-G/C 6650615|12-C/T 6650633|41-A/C 6650636|55-A/G 6650715|51-A/G 6650784|41-A/G 6650806|54-A/G 6650812|44-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6650885|45-G/T 6650890|7-G/A 6650891|27-C/G 6650939|41-A/G 6651045|37-G/C 6651063|37-A/C 6651127|50-C/G 6651189|65-G/A 6651213|10-C/G 6651259|15-G/A 6651305|62-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651312|67-T/C 6651314|20-C/T 6651471|5-C/A 6651479|37-T/G 6651523|45-A/T 6651524|18-G/A 6651611|23-A/T 6651617|38-A/C 6651627|10-C/A 6651680|16-T/G 6651686|18-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651990|27-G/T 6652031|21-T/C 6652068|30-T/C 6652123|48-C/T 6652141|65-C/T 6652156|37-G/T 6652188|11-A/G 6652217|66-T/A 6652220|47-G/A 6652222|50-C/T 6652329|66-G/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004728106 0.005570987 0.000000000   
## 6652364|41-C/T 6652450|9-A/C 6652454|59-C/T 6652470|43-C/T 6652506|53-A/T 6652539|13-G/A 6652561|39-T/C 6652572|11-T/G 6652637|54-T/C 6652648|60-T/A 6652659|15-A/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652665|12-A/G 6652728|28-T/C 6652751|58-A/G 6652774|48-G/A 6652817|30-A/G 6652845|15-G/A 6652939|61-C/T 6652947|66-T/A 6653004|32-T/G 6653011|14-C/T 6653170|45-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653174|64-A/C 6653291|22-A/G 6653324|46-G/A 6653415|50-C/G 6653489|12-A/C 6653514|8-A/G 6653535|20-A/T 6653594|40-G/A 6653646|49-A/T 6653674|54-T/C 6653683|31-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653750|55-T/C 6653771|10-A/G 6653779|21-T/C 6653822|27-G/A 6653827|15-A/G 6653858|29-G/T 6653928|36-T/A 6653969|26-C/T 6654051|34-T/C 6654056|9-C/T 6654078|12-T/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6657388|11-G/T 6657512|7-T/A 6657941|41-C/T 6658094|46-C/A 6658571|22-C/A 6658640|12-C/T 6661287|22-A/G 6661315|34-C/A 6661316|17-T/A 6661420|51-G/A 6661453|6-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6661468|17-G/T 6661489|62-C/T 6661552|5-G/T 6661577|44-A/C 6661601|15-G/A 6661629|40-G/A 6661651|60-G/A 6661703|29-A/G 6661728|35-C/T 6662799|24-G/T 6662820|22-T/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.007017457 0.000000000 0.000000000   
## 6662890|34-A/G 6662898|11-T/C 6662977|22-A/G 6664083|6-T/C 6664294|44-T/A 6664720|7-C/A 6665218|24-G/A 6665351|57-C/G 100109477|37-C/T 6665629|41-C/T 6665821|31-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.005449551 0.000000000 0.000000000   
## 100016377|14-C/T 100016728|8-C/G 100017376|68-T/C 100018451|6-C/T 100019918|66-C/T 100022411|61-C/G 100064620|27-T/G 100064811|7-G/A 100065350|20-A/G 100109953|9-A/G 6650460|21-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6650519|57-T/C 6650579|51-T/C 6650580|37-G/A 6650607|66-G/A 6650671|45-C/A 6650689|52-T/A 6650703|19-G/A 6650815|7-A/G 6650944|60-T/A 6650965|12-G/T 6651031|38-C/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651069|41-G/C 6651089|58-C/G 6651139|39-G/A 6651355|22-C/T 6651367|34-G/T 6651487|9-A/G 6651578|26-T/C 6651593|32-G/C 6651619|40-T/C 6651620|38-C/T 6651675|34-C/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651806|49-A/C 6651821|15-A/G 6651825|51-A/T 6651968|21-G/A 6651983|9-A/T 6652057|5-C/T 6652073|37-A/C 6652074|10-G/A 6652115|60-T/G 6652197|23-A/G 6652244|39-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652249|29-C/T 6652338|5-C/T 6652392|7-T/C 6652466|57-C/T 6652514|66-T/C 6652554|50-A/G 6652556|53-T/C 6652589|8-C/A 6652749|25-T/C 6652753|11-T/G 6652776|45-A/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652806|6-C/T 6652834|26-T/C 6652885|65-C/G 6652929|66-T/A 6652935|47-C/T 6653073|5-G/T 6653088|16-G/A 6653093|44-G/A 6653104|55-C/T 6653436|11-T/C 6653497|6-C/T   
## 0.000000000 0.000000000 0.004454321 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653639|65-G/T 6653645|43-C/G 6653769|16-G/C 6653927|44-C/T 6653953|41-C/T 6653987|61-A/G 6653993|15-A/G 6654009|23-C/T 6656879|21-T/C 6656932|34-C/G 6657077|25-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6657152|47-T/C 6657200|7-T/C 6657228|8-C/T 6657447|9-A/T 6657510|13-A/G 6657518|14-A/C 6657616|11-A/G 6657889|17-C/G 6657989|13-T/G 6657992|32-T/C 6658007|29-T/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.006042241 0.000000000 0.000000000 0.000000000 0.000000000   
## 6658058|7-C/G 6658330|11-C/G 6658349|12-A/C 6658401|16-G/T 6658424|11-A/T 6658451|54-A/G 6658473|36-A/C 6658548|12-C/A 6658667|17-A/G 6661128|54-T/A 6661132|53-C/T   
## 0.000000000 0.004661979 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.006600588 0.000000000 0.000000000   
## 6661145|48-C/T 6661169|16-A/C 6661418|24-T/G 6661447|57-G/A 6661551|43-A/T 6661606|48-G/C 6661621|22-T/C 6661667|62-A/G 6661716|24-C/T 6661770|21-C/T 6662676|12-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6662737|6-A/T 6662747|22-A/G 6662778|8-A/G 6662831|7-G/C 6662962|22-T/G 6662984|35-A/G 6663913|23-G/A 6663996|47-G/T 6664080|40-C/A 6664712|24-G/A 6665849|24-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6665849|27-A/G 100019306|41-G/C 100023120|53-T/C 100045071|11-G/T 100073787|12-T/C 100073808|38-G/A 100082396|45-C/T 100082676|61-G/A 6650780|18-C/T 6651956|47-C/T 6652018|68-G/A   
## 0.000000000 0.000000000 0.000000000 0.004597677 0.000000000 0.000000000 0.000000000 0.000000000 0.013071330 0.000000000 0.000000000   
## 6652299|52-G/C 6652898|20-T/A 6653146|40-G/A 6657342|25-G/C 6657451|13-T/C 6657720|20-T/G 6657882|21-C/T 6658021|6-G/C 6658104|7-T/G 6658212|12-A/G 6658246|8-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6661212|11-A/C 6661231|65-C/G 6661373|56-C/G 6661472|51-T/C 6662632|29-C/A 6662644|9-A/C 6662718|14-A/G 6662788|5-C/G 6663015|45-C/G 6663056|27-G/A 6663101|48-T/C   
## 0.000000000 0.000000000 0.011299070 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6663942|12-C/G 6663943|19-C/G 6664030|20-T/A 6664734|37-C/T 6665050|6-C/T 6665686|46-A/G 100064830|15-G/C 100073523|7-G/T 100073850|23-A/C 100074130|14-T/C 100085916|27-G/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100085918|17-C/T 100093520|12-T/C 100102104|19-G/T 100104847|9-C/T 100107045|42-G/A 100111102|5-T/C 100118833|7-G/A 100118214|9-G/A 6661395|67-G/A 6661549|61-G/A 6664299|8-G/C   
## 0.007843016 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.005602197 0.000000000   
## 6661899|30-T/C 100117994|5-C/A 100118292|6-C/T 100120255|8-G/T 100122091|12-G/A 6658340|10-T/A 6662816|5-C/A 6662936|6-T/A 6662936|8-A/G 6662964|8-C/T 6662966|17-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.006309085   
## 6664885|14-G/A 6661031|8-G/A 100066612|18-A/G 6652306|13-T/C 100085941|14-G/T 100018734|36-T/A 6661163|12-C/T 100065635|32-C/T 6661774|57-G/A 100082623|35-G/A 100065110|61-C/T   
## 0.000000000 0.000000000 0.000000000 0.011695502 0.000000000 0.008298611 0.025969529 0.017240076 0.006600588 0.077222883 0.000000000   
## 6661113|35-G/T 100118834|24-T/A 100065734|46-A/C 6663988|26-G/A 6661432|6-G/T 6661894|14-C/T 100025027|41-A/T 100065037|22-A/G 6661398|17-C/G 6661689|5-A/G 6664901|14-T/C   
## 0.000000000 0.028979239 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6661325|52-G/A 100024800|55-T/C 6661569|21-G/T 100015330|20-C/A 100017807|41-C/T 100021430|18-A/C 100021922|61-T/G 100024081|21-C/T 100044596|39-C/T 6651341|31-A/G 6652981|11-C/A   
## 0.000000000 0.005970096 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100065893|67-C/T 100015238|36-T/C 100015491|32-C/T 100015884|7-G/A 100019050|23-G/A 100022813|55-A/C 6653072|57-C/T 100016062|38-A/G 100017135|23-C/G 100021766|9-T/A 100022076|54-G/A   
## 0.005970096 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.014387734 0.000000000 0.000000000 0.000000000   
## 6661377|53-C/T 100015975|43-A/T 100016187|49-G/C 100024150|52-T/G 100018712|5-A/C 100021390|26-A/G 100045683|24-T/C 6661840|10-C/T 100016255|15-T/A 100020380|45-T/G 100021355|11-G/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100021470|64-A/G 100023138|54-G/A 100023921|57-C/T 6650819|43-C/T 6653757|13-T/G 100015309|36-C/A 100015511|36-A/G 100015825|32-G/T 100016469|15-C/A 100019560|67-A/T 100021988|8-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100022638|31-A/T 100022674|60-A/G 100023456|47-T/C 100023464|21-G/T 100023506|63-G/C 100121198|44-C/T 6664022|46-T/C 100017302|21-A/C 100017884|42-T/C 100020887|11-G/A 100022100|32-C/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.012738330 0.000000000 0.000000000 0.000000000 0.000000000   
## 100022978|31-G/T 100064951|7-C/T 100108048|25-G/C 6653000|22-C/T 6661699|44-C/T 100015643|21-A/G 100016494|59-G/A 100017300|12-G/T 100017465|6-C/A 100019558|59-A/C 100021942|23-G/A   
## 0.022672755 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100022249|52-T/C 100022694|55-C/G 100022788|12-C/T 100101046|61-C/A 6652314|37-T/C 100015332|7-C/A 100015389|56-T/A 100015557|20-C/G 100017329|58-G/T 100018963|60-A/C 100019082|25-A/G   
## 0.000000000 0.000000000 0.006557306 0.004514650 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100019182|47-T/A 100020256|17-T/G 100020398|8-A/C 100021013|48-A/T 100021289|8-A/G 100023421|10-T/G 6653492|18-A/G 6661385|64-G/C 6661806|68-G/A 100017094|36-C/T 100017357|22-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.013422206 0.000000000 0.000000000   
## 100018276|13-A/G 100018426|49-A/T 100018952|47-A/T 100021643|42-A/T 100022068|8-T/C 100022755|51-G/A 100066666|24-G/A 6661519|31-A/T 100015745|7-C/T 100018424|55-T/A 100021037|43-A/C   
## 0.000000000 0.000000000 0.004210508 0.000000000 0.000000000 0.000000000 0.004474250 0.000000000 0.000000000 0.000000000 0.000000000   
## 100021847|31-C/T 100022744|13-G/C 100023381|30-A/G 100023472|27-C/T 100023477|8-T/G 100024933|20-T/G 6651050|34-T/C 6652421|32-C/G 100082161|17-G/C 6661817|22-G/A 6665065|47-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.005063259 0.000000000 0.008230312 0.000000000 0.000000000   
## 6666515|7-G/A 100015276|20-C/T 100016849|33-A/G 100018157|49-A/G 100018512|6-C/A 100019166|40-G/A 100019599|68-C/T 100020395|68-C/T 100020496|40-T/C 100022054|30-T/C 100022238|35-T/C   
## 0.000000000 0.000000000 0.000000000 0.004376347 0.000000000 0.000000000 0.004494359 0.004494359 0.000000000 0.000000000 0.000000000   
## 100022761|21-C/T 100064714|31-A/C 100082512|27-G/T 6635566|26-T/G 6651319|63-C/T 100101042|27-A/G 100015522|21-A/T 100015635|48-A/C 100016324|17-G/C 100017167|42-A/G 100017270|46-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100018878|51-C/T 100019810|41-A/G 100020422|49-T/G 100021781|44-T/A 100022052|36-T/A 100022732|37-A/G 100023771|42-A/T 100064904|9-C/T 100066133|22-A/T 6635226|21-A/G 6661769|64-T/A   
## 0.004819249 0.004395583 0.004661979 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004228311   
## 100015503|66-A/T 100015669|26-A/G 100016926|66-A/G 100017163|47-A/G 100017930|44-G/A 100018643|57-G/A 100019627|11-G/A 100019775|26-T/C 100020011|13-C/A 100020180|30-T/A 100020794|35-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.004819249 0.000000000 0.000000000 0.011975613 0.000000000 0.000000000 0.005730612   
## 100022441|55-A/G 100065577|55-T/C 100066375|31-C/T 100101063|14-G/A 6634311|8-T/C 6650564|10-C/G 6651449|21-G/A 100015590|56-T/C 100015813|59-T/A 100015865|6-C/T 100015966|35-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100016299|67-G/A 100017046|59-A/G 100017306|20-C/T 100017681|59-G/A 100018541|45-C/T 100019001|52-T/C 100019248|51-C/A 100019357|10-A/C 100020167|8-T/C 100020584|49-G/A 100020830|34-G/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100021518|64-T/G 100023323|17-A/G 100065274|22-T/A 100066055|6-T/C 6652294|28-T/C 6661350|27-G/A 100015979|10-G/A 100016232|12-A/G 100016804|11-G/T 100016918|64-T/A 100017355|38-C/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100018239|64-C/A 100018653|43-T/C 100019075|38-G/C 100020739|29-A/G 100022196|19-G/A 100022506|24-C/G 100022716|15-T/C 100065001|58-T/A 6661682|7-T/C 100016459|9-T/C 100016800|17-T/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004319634 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100016857|32-A/T 100016901|25-G/A 100017304|40-T/G 100018018|24-G/T 100018056|56-G/C 100018188|36-G/T 100018521|14-G/A 100019406|13-G/A 100019617|68-C/A 100020206|45-C/G 100021877|23-T/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100022598|56-C/T 100022715|29-C/T 100022769|37-G/A 100023124|68-T/G 100045390|32-G/A 100064869|18-A/G 100066159|27-C/T 6651348|40-T/G 6651910|25-A/T 6661267|31-G/A 6661407|12-G/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.005012500 0.000000000 0.000000000 0.000000000   
## 6661471|46-G/T 100015328|40-A/C 100015329|5-T/A 100015695|23-C/T 100015994|62-A/T 100016280|42-G/C 100016310|50-G/A 100017976|8-T/G 100018090|15-T/C 100018376|15-G/A 100019811|9-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100019879|32-T/C 100020836|42-T/G 100020897|56-T/C 100020918|25-A/G 100022084|40-A/G 100022253|28-T/C 100022347|11-T/G 100022822|20-C/T 100022863|16-C/G 100064727|32-C/G 100064762|17-A/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100065060|19-C/T 100065198|28-C/T 100065497|6-G/A 100066169|37-C/A 100066413|57-T/G 100066518|25-A/C 6650606|12-A/G 6650782|37-G/A 6651161|26-A/T 6651343|64-C/T 6651987|65-G/C   
## 0.010470914 0.005970096 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652583|9-C/G 6653986|35-G/A 100017405|46-T/C 100018360|48-T/C 100020046|11-T/G 100020184|33-A/T 100020356|17-C/T 100021172|11-C/T 100021739|23-A/G 100022407|43-A/G 100022586|32-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.009478458 0.000000000 0.000000000 0.000000000   
## 100023347|40-A/G 6630669|54-A/C 6651087|52-A/G 6653823|53-T/C 6661427|45-A/T 6664050|11-T/C 100015339|30-G/A 100015780|53-A/C 100016477|49-C/T 100016846|6-A/G 100017534|5-A/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100018524|64-G/T 100018715|45-A/C 100019637|34-T/C 100019730|38-A/G 100020004|34-G/C 100020093|64-G/T 100020177|61-C/T 100020736|62-T/C 100021876|36-T/C 100022251|18-A/C 100022479|48-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.009389462 0.000000000 0.000000000 0.000000000   
## 100023192|44-C/T 100065374|28-T/A 100065413|68-G/T 100065460|57-T/A 100065786|62-T/C 100065981|32-G/A 100093548|6-T/C 6635925|28-G/A 6651303|15-G/A 6652226|61-A/C 6652595|25-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.004705856 0.000000000 0.011560303 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652880|30-G/A 6653288|5-T/C 6661743|26-G/A 100015258|11-G/A 100015334|11-A/C 100015520|48-T/A 100016206|60-T/G 100016803|55-T/A 100016999|24-T/C 100017691|42-G/C 100018254|14-G/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100018691|53-C/T 100018832|49-T/A 100018836|30-T/A 100018972|63-T/C 100018993|58-G/A 100019968|28-T/C 100019971|65-T/G 100020134|53-C/T 100020237|19-C/T 100020353|50-A/G 100021532|8-T/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100022232|46-T/C 100022564|55-G/A 100064590|10-C/G 100064752|47-G/T 100066482|40-C/G 100066499|21-A/C 100082126|5-A/G 100082673|16-C/G 100118390|28-A/G 100118390|5-C/G 6650749|8-A/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.008968428 0.000000000 0.000000000 0.000000000 0.000000000   
## 6650993|48-A/G 6651187|10-A/T 6652437|24-T/C 6652887|56-G/A 6653102|62-A/C 6653358|49-T/A 6661200|10-A/G 6661277|39-G/A 6661479|25-C/A 6665776|10-G/A 100116183|6-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.004282636 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.007721892   
## 100065388|52-T/C 100015585|60-A/G 100016513|5-C/A 100016711|48-G/A 100017104|21-C/A 100017773|59-C/T 100017895|25-A/T 100018069|40-A/G 100018279|30-C/A 100018386|10-G/C 100018698|26-G/A   
## 0.020405994 0.000000000 0.000000000 0.000000000 0.000000000 0.009049587 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100021026|29-A/G 100021644|9-C/A 100022215|30-A/G 100023511|29-G/A 100065011|9-G/T 100065481|45-G/C 100065665|18-T/G 100082041|35-T/G 100082540|39-C/T 6635352|11-C/T 6651637|46-A/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004434568 0.000000000 0.000000000 0.000000000   
## 6652697|44-G/A 6652848|23-G/T 6661188|24-G/C 6661506|68-A/T 6661846|36-C/G 100121512|16-T/C 100015223|24-C/T 100015336|36-G/A 100016018|57-G/C 100016257|18-G/A 100016363|39-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100016533|62-C/T 100017334|62-C/T 100017905|42-A/G 100018782|32-C/A 100018840|12-A/G 100018918|28-G/A 100018973|26-T/G 100019583|32-G/T 100020635|19-T/C 100020952|67-A/G 100021607|12-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100021759|51-G/A 100022391|27-T/C 100022668|57-T/C 100065738|47-G/C 100066164|11-G/A 100066550|5-T/C 6633324|49-T/G 6634529|30-T/C 6651763|8-A/T 6651994|28-A/G 6652616|33-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.005602197 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653336|20-T/C 6653857|60-T/A 6661332|57-A/T 6661613|21-G/A 100015558|12-T/G 100016614|13-A/G 100016893|9-G/A 100016974|14-T/C 100017016|14-G/C 100018076|32-A/G 100019206|6-T/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100019217|46-A/T 100019384|38-C/T 100019646|24-T/A 100019874|10-C/G 100019964|12-C/A 100020293|37-A/G 100020842|17-G/A 100021693|26-T/C 100022050|68-A/T 100022979|40-A/G 100023492|66-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100045668|41-G/A 100065160|26-C/T 100066259|47-G/A 6630074|25-T/C 6651026|5-A/G 6651431|37-C/G 6651540|51-T/C 6651708|27-C/T 6652397|25-T/C 6653258|20-A/C 6661295|56-C/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.006116150 0.000000000 0.000000000   
## 100016658|9-C/T 100016823|19-A/C 100017190|25-A/G 100017629|18-T/C 100018573|66-T/A 100019552|33-T/G 100021046|26-A/G 100022548|38-A/C 100065206|29-C/A 100065846|12-T/A 6651279|28-G/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.004210508 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652199|28-G/A 6652400|17-C/T 6652445|11-A/T 6653155|9-C/G 6653256|29-G/A 6661317|35-T/C 6663970|38-G/C 6665305|7-T/C 100015212|40-T/C 100015773|62-T/C 100016229|66-G/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.006153788 0.000000000 0.000000000 0.000000000 0.000000000   
## 100017966|44-G/A 100018540|41-C/G 100019145|8-G/A 100020607|26-G/A 100021569|14-G/A 100023034|23-C/T 100023386|11-T/C 100065690|24-C/G 6650623|27-T/C 6650909|20-C/G 6651336|17-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651419|53-T/C 6652696|7-A/G 6652736|50-T/A 6653280|14-G/T 6653295|57-T/C 6653940|33-C/G 6661206|18-A/G 6661327|42-G/C 6664003|47-C/T 100015464|37-A/T 100015704|41-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.007905014 0.000000000 0.000000000   
## 100016862|45-C/T 100019871|11-C/T 100020987|40-T/C 100021296|8-G/A 100065560|20-C/G 100066263|36-C/T 100066672|61-G/C 100082462|27-A/G 6632122|60-C/T 6650958|39-G/T 6651020|25-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651285|11-A/G 6651625|35-A/G 6651661|21-C/A 6651716|31-A/G 6651796|30-T/G 6651885|10-A/T 6652069|22-A/G 6652117|17-A/G 6652234|42-G/A 6653188|36-T/C 6653368|52-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6661580|47-C/T 6661803|14-T/C 6661812|53-C/T 6661866|32-G/C 100015736|43-G/A 100016141|36-G/A 100017142|64-C/T 100019476|8-T/C 100022055|56-G/A 100022078|12-T/C 100022886|24-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6631211|9-C/T 6651047|34-T/G 6651407|46-C/T 6651481|28-G/C 6652585|52-T/G 6653252|68-G/A 6653882|52-A/T 6653901|21-A/T 6654029|48-A/G 100015720|28-G/T 100016789|20-G/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100016796|38-G/A 100017412|8-A/G 100017613|42-T/G 100017642|45-C/A 100017690|28-G/T 100018660|67-C/T 100020040|40-T/A 100021191|5-G/C 100023009|12-A/G 100065757|7-G/C 100066245|18-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100074042|5-T/C 100082359|43-C/T 6635615|63-A/T 6650495|22-G/C 6650509|12-C/A 6651034|16-A/T 6651369|18-C/G 6651472|63-T/C 6651525|65-T/G 6651657|19-G/A 6651750|54-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652293|6-T/G 6652474|14-G/A 6653662|55-G/C 6661543|6-A/G 100017915|15-G/A 100020329|6-T/C 100021269|67-C/T 100021647|7-C/G 100065434|44-T/G 100091128|19-C/T 6630649|30-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6631485|63-C/T 6634232|23-C/T 6650379|29-C/T 6650507|19-A/C 6650854|20-G/A 6651417|34-C/T 6651649|55-G/A 6651797|46-C/T 6652137|50-T/C 6652171|14-G/C 6652353|59-C/T   
## 0.000000000 0.012684473 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652439|17-A/C 6652481|49-A/G 6652592|44-C/T 6652631|8-T/C 6652759|5-G/C 6653033|21-C/A 6653086|60-T/C 6653403|58-C/G 6653441|17-C/A 6653651|15-A/G 6653652|24-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653717|62-T/A 6653911|22-G/C 6657418|43-C/G 6658319|40-G/A 6661213|21-C/T 6661527|23-T/C 6664003|60-C/T 100017332|29-G/A 100018422|17-T/C 100019803|28-C/T 100020227|22-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100021230|36-G/A 100045732|32-A/G 100065400|55-A/G 100065695|10-T/A 6650641|39-G/C 6650730|37-C/T 6651079|5-A/T 6651096|56-T/C 6651302|27-C/G 6651575|42-A/G 6651609|46-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651712|16-T/C 6651755|6-C/G 6651927|7-C/T 6652423|26-A/G 6653022|23-G/C 6653024|17-C/T 6653143|11-A/G 6653233|66-T/A 6653287|46-C/T 6653308|9-A/G 6653555|27-A/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653600|5-T/C 6653915|45-T/G 6653995|60-T/C 6657836|14-A/G 6661227|16-C/A 6661262|58-G/T 6661434|38-G/T 6661641|45-A/G 6661702|15-A/G 6662581|37-A/T 100114018|47-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.004597677 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100016369|9-A/G 100017864|12-A/C 100018488|65-A/G 100018874|30-C/T 100022833|43-A/C 100045516|20-A/G 100065233|14-C/G 100065518|13-T/G 100065693|58-C/T 100066101|12-T/C 6633196|52-G/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004454321   
## 6633443|50-C/G 6650488|44-T/C 6650661|48-G/C 6650800|48-C/T 6650825|39-G/A 6650845|36-C/T 6650876|20-T/G 6651093|21-T/C 6651267|9-G/A 6651306|19-G/A 6651379|44-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651554|67-T/C 6651736|43-T/C 6651932|30-T/C 6651941|51-C/T 6652116|48-C/T 6652661|48-C/T 6652756|60-T/C 6652829|67-A/G 6653016|28-G/A 6653035|59-T/C 6653400|19-A/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653480|48-C/A 6653764|58-T/G 6654093|42-A/G 6661397|22-T/G 6663931|67-C/G 6663957|68-G/A 6663967|43-G/C 6665630|56-C/T 100017995|7-C/G 100020113|15-A/T 100022566|30-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100044990|7-T/C 100065049|7-G/T 100066339|40-A/G 100082461|32-T/A 6632579|11-G/A 6650828|56-C/T 6650907|12-G/C 6650924|57-A/T 6651078|6-G/A 6651186|45-G/A 6651357|21-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.007721892 0.000000000 0.000000000   
## 6651533|11-T/C 6651835|18-A/G 6651845|5-C/T 6652615|62-G/A 6652654|38-A/G 6652959|31-C/A 6652967|19-C/T 6653003|36-G/C 6653135|53-G/T 6653227|62-A/G 6653345|29-G/T   
## 0.000000000 0.000000000 0.000000000 0.004282636 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653424|16-A/C 6653449|26-T/C 6653581|57-G/C 6653676|29-A/G 6653712|15-T/C 6653723|10-C/T 6653956|18-A/G 6654001|23-C/A 6658504|15-C/A 6658614|43-T/G 6661202|35-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6661234|44-T/C 6661397|27-C/T 6661731|51-C/A 6661793|54-A/G 6663947|19-T/G 6664041|32-A/G 6664042|66-G/A 6664043|13-T/A 100017392|44-T/G 100020618|50-C/T 100022663|33-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6630289|20-G/C 6650619|36-T/C 6650638|22-A/C 6650699|38-T/C 6650728|58-T/C 6650755|23-T/A 6650783|14-G/A 6650849|14-T/C 6650880|67-A/G 6651095|41-C/T 6651245|18-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651292|26-C/G 6651352|20-T/C 6651467|62-G/C 6651557|42-C/T 6651631|26-C/T 6651664|24-T/C 6651688|48-C/T 6651718|35-C/T 6651795|51-C/T 6651923|42-T/C 6651965|39-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652219|19-T/C 6652378|63-C/T 6652434|66-A/C 6652655|53-T/G 6652722|31-C/A 6652830|22-T/C 6652882|43-C/A 6653040|42-C/T 6653271|6-A/G 6653385|63-G/T 6653386|12-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653418|27-T/A 6653450|16-A/G 6653476|17-G/C 6653520|26-A/G 6653763|12-G/A 6653916|15-T/C 6654026|50-T/C 6654061|33-A/G 6657577|47-G/A 6657800|39-C/A 6658145|22-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.010049995 0.000000000   
## 6658508|25-A/G 6661100|58-G/C 6661185|17-G/C 6661209|14-C/T 6661230|12-C/T 6661236|16-T/C 6661314|22-A/C 6661446|29-G/A 6661535|11-G/A 6661559|28-T/C 6661597|46-G/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6661642|45-G/T 6661657|60-G/A 6661731|68-A/G 6661796|25-A/G 6662683|15-T/C 6664747|36-A/C 6665469|54-T/A 6665629|23-C/G 100023210|29-C/A 100065681|26-G/T 100114697|13-C/G   
## 0.000000000 0.000000000 0.004474250 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6630523|63-G/A 6650409|45-T/C 6650528|28-G/T 6650721|49-C/T 6651065|27-G/T 6651098|23-T/C 6651125|47-G/A 6651426|10-G/A 6651605|61-C/A 6651634|10-G/C 6651759|12-C/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651815|20-A/C 6652098|62-G/A 6652125|13-C/T 6652182|12-A/G 6652205|23-G/T 6652340|36-A/G 6652361|22-A/G 6652367|17-C/A 6652519|22-A/T 6652681|7-T/C 6652787|16-C/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653095|8-G/T 6653128|9-G/T 6653131|30-G/A 6653340|41-C/T 6653516|66-C/G 6653855|60-C/A 6654020|41-T/C 6654087|18-G/A 6657400|14-C/T 6658359|12-G/A 6661176|55-C/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6661182|18-C/T 6661371|21-A/G 6661403|66-A/C 100065611|31-A/C 6661497|12-G/A 6661654|59-A/G 6662907|21-A/G 6663946|23-C/G 6665056|53-C/T 6665628|28-C/A 100019769|39-T/C   
## 0.000000000 0.000000000 0.000000000 0.052747133 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.006430801 0.000000000   
## 100082375|66-T/G 100082404|55-T/C 6650592|12-C/A 6651184|37-G/A 6652576|37-G/T 6652672|55-C/T 6653304|23-A/T 6656915|10-G/T 6657307|34-A/T 6657558|38-C/T 6658381|25-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6658521|6-G/C 6661752|23-A/C 6664327|23-G/A 100044751|5-A/G 100085984|13-G/A 100115531|5-T/A 6643578|12-A/G 100106109|11-G/A 100113138|5-T/G 100117994|11-T/A 6662821|6-T/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6664383|8-A/G 6665284|5-C/G 6665328|8-T/A 6665629|20-C/G 100118214|11-C/A 6663102|10-G/A 100021042|56-T/C 100090841|7-C/A 100103683|13-G/A 100103683|6-A/T 100106227|13-C/A   
## 0.000000000 0.004106759 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100106247|9-T/A 100111488|6-C/G 100112338|6-T/G 100114623|5-C/G 6644428|5-T/A 6647555|5-C/A 6648501|8-A/G 6648560|7-T/C 6658337|6-C/G 6664325|9-C/T 6664355|7-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6664406|5-G/T 6664885|10-C/T 6665134|5-A/G 6665147|13-C/T 100065344|49-T/C 6661457|44-C/T 6661867|13-G/A 6661122|26-C/T 100064630|57-A/G 100025554|68-T/A 6658677|32-C/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.019167534 0.000000000 0.000000000 0.000000000 0.007604452 0.000000000 0.000000000   
## 6635413|16-T/A 6661764|43-C/A 6652801|27-G/A 100024646|8-G/C 100066569|63-G/A 6652374|43-T/C 6661449|54-A/C 6661688|9-G/T 6661583|7-C/T 6661219|45-G/A 100016118|67-A/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004889946 0.000000000 0.020098431 0.005037751 0.000000000 0.000000000   
## 100065968|17-C/T 6664008|7-T/G 100019909|40-A/G 100024919|19-A/C 100021772|52-T/C 100066372|27-A/G 100091350|43-A/C 100017975|34-A/G 100045781|34-C/A 6652884|53-G/A 100017252|27-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100017894|53-G/A 100022254|26-T/A 6632275|61-T/C 100065115|49-T/C 100065825|30-T/C 6654008|51-C/T 6653230|18-T/G 100020850|15-T/A 100024608|28-A/G 100065720|36-C/T 100019004|19-T/C   
## 0.000000000 0.000000000 0.004842586 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100022949|21-T/C 100024718|58-G/A 100065076|9-G/C 6650868|53-G/A 100017101|27-T/G 100017766|10-C/A 100019793|62-T/A 100021136|57-G/A 100021706|33-T/C 100025017|58-T/C 6652036|20-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100015261|30-G/A 100015698|55-A/C 100016039|28-T/C 100021704|31-A/T 100021798|6-G/A 100022137|6-T/C 100022883|14-A/G 100023375|24-A/C 100064876|34-G/A 100022317|10-A/G 100065186|8-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653805|57-G/C 100021710|10-A/G 100023305|24-G/A 6634600|17-T/C 6650598|62-C/A 100017818|14-T/G 100020277|67-T/G 100020322|14-C/T 100021252|30-G/A 100022007|39-C/T 100022967|55-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004576635 0.000000000 0.000000000   
## 100023231|52-G/C 100024979|12-A/T 6651448|5-C/A 6661619|36-C/T 100101013|46-C/T 100015916|40-T/G 100019381|29-T/C 100021309|54-A/G 100022531|25-T/C 100022877|17-A/C 100023365|32-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.010752374 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100023869|51-T/A 100066103|5-G/A 100066389|65-G/C 6652703|57-T/C 100019288|33-T/C 100020549|44-T/G 100020551|60-A/T 100023117|6-G/T 100023343|62-G/A 100065070|10-C/T 100119322|60-G/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653215|23-A/C 100015905|30-T/A 100018538|19-A/G 100020139|46-T/C 100020548|9-A/C 100065378|43-C/T 100065666|20-A/T 100065687|58-C/T 6651010|63-C/T 6651023|13-C/T 6651465|19-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004376347 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653507|50-C/G 6661164|56-C/G 100015555|49-G/A 100017215|20-C/T 100018040|51-T/A 100018557|8-A/C 100019185|63-C/G 100019688|44-C/T 100023075|63-C/G 6630180|30-A/G 100015432|27-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100017493|63-A/G 100020399|26-G/A 100020528|67-A/G 100021151|33-C/G 100021753|16-G/A 100021795|51-G/A 100062072|14-A/C 100066634|26-T/A 6661693|17-A/G 100015331|61-T/C 100015609|28-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100017169|13-G/A 100017928|37-T/A 100019505|12-C/A 100020075|44-G/T 100020413|29-G/A 100021373|46-G/A 100021417|26-A/C 100022461|56-A/G 100022969|9-G/A 100023275|19-T/C 100082212|44-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004210508 0.000000000 0.000000000   
## 6652622|54-G/A 6653084|57-C/G 6653710|21-C/T 6653840|32-A/T 100021632|19-T/C 100022984|17-G/C 100064905|26-T/A 100015960|29-G/A 100016761|32-C/T 100017811|61-T/C 100019007|29-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100020970|16-G/A 100065097|13-T/C 6651396|51-T/G 6651430|31-C/T 100015246|12-A/G 100017606|48-T/C 100018953|27-G/C 100019018|13-A/G 100020129|19-G/A 100020404|28-A/G 100020733|17-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.012578112   
## 100021724|12-A/C 100066663|43-G/A 100122660|5-A/G 6630550|32-T/C 6652105|37-A/G 100015837|30-T/C 100016214|35-G/T 100017908|21-G/A 100019267|32-G/A 100023141|5-C/T 100023174|41-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100064755|8-G/A 6651656|34-G/A 6651767|59-G/C 6664728|67-C/T 100018065|63-T/A 100019510|9-G/A 100019632|22-T/C 100019754|7-A/T 100020251|60-G/A 100021712|18-T/A 100044571|14-T/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.007272630 0.000000000 0.000000000 0.000000000 0.004338374 0.000000000 0.000000000   
## 6661691|15-C/T 6663917|15-C/T 100018085|21-A/G 100019876|24-A/C 100020554|42-G/T 100022262|60-C/A 100023321|57-A/G 100065480|65-T/A 6652163|42-T/G 6661278|34-C/G 6661299|21-G/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100016113|5-T/A 100018753|18-C/A 100022995|26-G/A 100045005|36-T/A 100065425|18-T/G 100065813|42-A/C 100066450|34-C/G 6652607|6-A/G 6653544|67-T/C 6661463|59-T/G 6661534|24-C/T   
## 0.000000000 0.000000000 0.000000000 0.008298611 0.000000000 0.000000000 0.009090720 0.000000000 0.000000000 0.000000000 0.000000000   
## 100020053|13-A/T 100020534|56-C/G 100020747|66-T/A 100022664|19-A/G 100023314|12-C/T 100024345|29-C/T 100065655|8-A/T 100082306|16-G/C 6632614|14-G/C 6650544|61-G/A 6661521|5-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6661754|5-A/T 100017623|23-C/T 100019111|65-T/A 100020626|26-A/C 100022838|5-C/T 6661655|44-C/A 100015424|32-C/A 100017638|47-T/C 100019862|5-A/G 100064626|46-C/T 100066576|33-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100082421|35-G/T 100082421|56-A/T 6661595|45-G/A 100018565|14-C/T 100019547|16-A/T 100021316|68-A/T 100066021|13-T/C 100066577|66-T/C 6635995|53-T/G 6650794|31-T/C 6651294|52-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6661643|39-A/C 6665642|53-T/C 100017091|53-T/C 100018288|5-C/T 100019411|13-C/T 100022970|53-A/G 100044935|38-C/G 100065133|26-G/A 100065604|17-G/A 6653270|12-C/T 100082437|5-G/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.004866151 0.000000000 0.004192854 0.000000000 0.000000000 0.000000000 0.000000000   
## 100017079|68-T/A 100018306|21-T/A 100065207|61-C/A 6651674|58-G/A 6661762|25-C/T 100016541|14-A/T 100019240|64-C/A 100022760|39-A/C 6661631|14-G/T 100015984|25-C/T 100020169|39-T/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100020171|37-C/T 100020514|46-G/A 100093365|13-T/C 6631375|67-A/T 6651160|63-T/G 6651417|40-A/G 6653272|47-T/C 6661637|58-G/T 6661875|62-G/A 100016327|11-G/T 100017411|17-C/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.016127966 0.000000000 0.000000000 0.000000000   
## 100021938|40-C/A 100104022|29-G/C 6653086|61-G/A 6654063|52-T/C 6661270|57-C/T 6661413|37-C/T 6661571|64-G/A 6662928|6-G/T 6665563|11-G/C 100015347|8-A/G 100015697|17-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6630379|34-A/G 6651111|37-G/A 6651135|63-T/A 6652080|40-C/G 6653891|42-G/A 6661255|43-T/G 6661262|56-A/G 6661441|11-A/G 100019678|23-G/T 100065386|6-G/C 100082362|41-C/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.008620528   
## 100119892|9-C/T 6650706|34-C/G 6651084|9-T/C 6652828|42-G/A 6653640|66-C/T 6661213|29-A/C 6661501|61-G/T 100020312|34-A/G 100066078|57-C/T 6651216|56-G/C 6651663|16-T/G   
## 0.000000000 0.004555785 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652291|30-C/A 6661623|16-C/T 6664064|11-C/A 100019069|65-C/T 6629913|31-T/G 6650658|32-T/C 6651643|7-G/A 6651651|36-T/C 6652652|32-C/T 6652781|24-G/A 6652781|64-C/G   
## 0.000000000 0.000000000 0.000000000 0.006733930 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652958|54-G/C 6661185|61-C/T 6661218|12-C/T 6661232|58-C/T 6662683|28-G/C 6662714|21-A/C 6663024|21-C/T 100016570|44-C/T 100017965|14-G/A 100018649|23-G/A 100021210|28-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004866151 0.000000000 0.000000000   
## 100044629|5-T/A 100065997|37-G/A 100066075|25-C/G 100119599|31-T/C 6633592|39-A/T 6650534|49-T/C 6650535|67-A/T 6651337|9-A/G 6653918|11-A/G 6657564|24-C/T 6661126|11-C/T   
## 0.007781982 0.000000000 0.000000000 0.000000000 0.000000000 0.012819979 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6661428|5-C/T 6661666|46-C/T 6661783|8-T/C 6661798|20-C/T 6661798|28-T/C 6661836|10-G/A 6661836|20-G/C 6661863|56-C/T 6662849|35-T/C 6665679|46-T/G 100093359|29-C/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6629858|37-A/T 6643954|6-G/T 6652019|59-G/C 6652746|56-G/T 6652810|45-C/G 6653160|44-G/A 6653239|27-C/T 6653352|54-C/G 6653632|19-G/A 6662822|7-G/A 6664724|62-G/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.008230312   
## 100044710|9-T/G 100093660|28-C/A 6633718|59-C/T 6641748|42-C/A 6658299|7-T/C 6661450|36-G/A 6643586|10-T/G 6643586|9-C/A 6648203|14-A/T 6664350|5-C/T 100106226|9-C/A   
## 0.004157986 0.000000000 0.000000000 0.000000000 0.006514588 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100111464|9-T/C 6643578|11-A/T 6664414|23-C/A 6664432|8-G/T 6643814|11-C/G 6643814|5-G/A 100100648|8-G/T 100103657|7-G/C 100106110|9-A/G 100106239|8-T/G 100109437|5-C/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100109437|9-C/G 100110529|5-C/T 100111487|5-T/G 100122090|8-T/A 6649192|5-T/C 6657874|5-G/C 6658144|18-A/T 6662919|11-A/C 6663018|25-T/C 6664273|5-C/A 6664306|8-C/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6664893|38-G/C 6664910|11-C/G 6665153|7-A/G 100082484|50-G/T 100118470|9-C/T 6664010|54-C/T 100046106|24-G/T 6666102|8-G/A 6657032|15-C/T 6665215|57-C/T 100018359|44-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.068290391 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100023139|68-G/T 6664085|47-C/T 6661211|58-C/T 100066559|31-T/C 6663985|50-C/T 6665628|45-T/C 100097039|23-C/G 6665040|44-A/G 100093411|9-A/C 100093413|26-G/C 6634480|31-T/A   
## 0.000000000 0.000000000 0.018574219 0.000000000 0.005570987 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100065820|27-T/C 100065626|5-A/C 100017456|5-A/C 100065031|12-G/A 100090339|7-T/C 6654096|11-C/A 100045278|30-G/C 6650722|8-G/C 100023932|52-G/T 6661186|27-A/G 100066349|48-C/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.005449551 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6664781|12-G/A 100018124|53-C/G 100064999|21-G/A 100074314|17-G/A 6661474|58-C/G 6664089|39-C/A 100074315|18-C/T 100109510|37-A/G 100106299|29-A/C 6652532|17-A/G 6666146|37-G/A   
## 0.000000000 0.000000000 0.017542486 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100020687|19-G/A 100017102|43-A/G 100016103|11-C/T 100016936|24-G/C 100065009|15-G/C 100021792|22-G/A 100065064|48-C/T 6651486|23-C/A 100022395|5-G/T 6635620|7-T/G 100021158|56-G/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
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## 100066151|44-C/A 100065712|39-A/G 100016548|22-A/C 100018316|52-G/A 100018669|51-A/G 100020096|10-G/A 100021832|59-T/C 100045940|24-C/A 100066650|24-A/G 100045116|6-C/T 100112452|57-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653883|52-C/G 100021186|32-G/C 100021930|67-G/A 100065300|66-G/T 100082101|62-A/G 100119315|9-G/T 6650840|6-C/G 6664036|6-A/T 100015791|35-A/G 100021993|35-A/T 100065071|26-C/T   
## 0.000000000 0.000000000 0.005934666 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100106305|20-G/C 100020586|49-T/G 100022366|24-T/C 100022982|18-T/C 100102365|9-C/G 100016200|62-T/G 100017620|16-C/T 100018736|57-T/C 100020340|6-T/C 100066082|8-G/T 6663098|31-C/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100018726|57-G/T 100019037|42-G/A 100021366|54-C/T 100022220|45-A/G 100066146|14-T/C 100066266|57-C/G 100066574|19-T/C 100016560|7-T/C 100066037|49-C/G 100121195|35-C/G 100018616|49-T/G   
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## 100066663|58-T/C 100118142|5-T/C 6665806|57-G/A 100018844|30-C/T 100091301|63-G/T 100096922|11-G/T 6651543|26-C/T 100016510|41-T/A 100018353|22-G/T 100019853|68-A/T 100021078|39-A/T   
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## 100021925|13-A/G 100065479|51-A/G 100066412|14-T/C 100091301|22-C/G 100019195|66-T/A 100023208|34-G/A 100065057|21-C/T 100065426|35-C/A 100073631|7-G/C 100016006|34-T/G 100017176|29-G/A   
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## 100064874|12-T/C 100106306|45-G/A 100106306|65-G/A 100021587|57-C/T 100065160|65-G/T 100073403|34-A/C 100082633|51-A/G 100097045|48-T/C 6652651|47-T/A 6661761|37-C/T 100017728|53-A/C   
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## 100065286|5-A/C 100082197|10-C/T 6633952|10-G/C 6657904|18-T/C 100065579|38-A/C 6661858|20-C/A 100019471|14-G/A 100044832|16-G/T 100065848|33-G/A 100066117|37-G/T 100112452|34-A/G   
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## 100082315|13-G/A 6629848|65-C/G 6630880|24-C/G 6650849|38-G/A 6650881|15-G/A 6651487|20-C/T 6651826|47-T/A 6652855|33-G/T 6657563|28-T/G 6657811|15-G/A 6658667|25-T/G   
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## 6662907|9-T/A 6665143|45-A/G 100021831|19-T/A 100045184|5-G/C 100065651|20-A/C 100066434|64-T/A 100066660|33-T/C 6633749|29-T/A 6635481|20-A/G 6650535|47-C/A 6652320|27-G/C   
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## 6652796|29-G/C 6654065|42-C/G 6657294|51-C/A 6658085|11-A/G 6661346|29-T/A 6661679|17-C/T 6662799|12-C/A 6662831|22-C/T 6663021|23-A/G 100085932|36-G/C 6630269|58-C/T   
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## 6630995|13-C/T 6633153|34-C/T 6644233|38-G/T 6650943|57-C/G 6650961|27-T/G 6651177|55-C/G 6651864|18-T/C 6652465|10-A/T 6652776|7-C/T 6654017|47-C/T 6657683|10-G/C   
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## 6657925|11-T/C 6658404|12-T/G 6664915|43-G/T 100045721|8-T/A 100082404|10-G/T 100093333|22-G/A 6633054|40-T/A 6642765|20-C/T 6643196|21-C/G 6653359|24-C/T 6658471|31-G/C   
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## 100065416|12-T/C 6661414|26-T/C 6664306|12-G/A 6665409|5-T/A 6642901|10-G/A 100108705|8-G/A 6665151|5-A/T 100122090|6-T/A 6662690|20-C/T 100016003|7-T/A 100016649|43-T/C   
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## 100019431|29-C/T 100023959|16-T/C 100024997|62-T/G 100044851|16-G/C 100064658|7-C/T 100064682|49-G/A 100064707|51-G/A 100064714|52-G/A 100064753|29-A/G 100064840|30-G/A 100065000|48-T/C   
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## 100066410|32-G/A 100066624|60-C/G 100082151|41-C/A 100082232|23-T/G 100082297|57-C/T 100082311|43-C/T 100082409|16-T/A 100082418|7-T/C 100082564|6-T/C 100082633|21-G/A 100086276|23-G/T   
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## 100086585|5-G/T 100091075|52-C/T 100091130|54-T/C 100093549|30-T/C 100098502|34-A/T 100101042|48-T/G 100121195|12-A/G 100121196|29-T/C 100121197|43-C/G 100121199|47-T/A 100121200|51-T/C   
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## 6650444|8-A/G 6650519|63-A/G 6650553|61-C/G 6650587|17-C/A 6650591|24-A/G 6650676|68-C/T 6650899|7-G/A 6650902|63-C/T 6650919|10-A/G 6651039|12-G/A 6651054|54-C/T   
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## 6651207|33-A/G 6651431|65-C/G 6651512|39-C/A 6651635|32-C/T 100065262|63-T/A 6651763|26-G/A 6651874|8-T/A 6651879|12-C/T 6652022|6-C/T 100065511|46-G/C 6652174|20-A/T   
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## 6652193|50-G/A 6652287|47-C/A 6652538|35-G/A 6652743|25-G/A 100065924|8-G/T 6652898|57-G/T 6653034|66-G/A 6653037|45-C/G 6653161|37-C/T 6653161|51-C/G 6653240|43-A/G   
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## 6653383|7-T/C 6653394|26-G/A 6653420|30-G/T 6653514|60-C/G 6653521|20-A/T 6653525|7-A/G 6653571|21-G/T 6653574|48-G/T 6653793|20-C/T 6653861|28-C/G 6653990|38-G/A   
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## 6661487|18-A/G 6661524|9-G/A 6661550|30-T/C 100082471|28-C/T 6661631|29-G/C 100082491|60-C/T 6661651|25-G/A 100082562|68-C/A 6661778|27-A/G 6661827|57-C/G 6661838|61-A/T   
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## 6664007|22-C/A 6664018|43-T/C 100091330|60-C/T 6664739|19-C/T 6665051|50-C/A 6665130|20-T/A 6665130|26-T/A 6665131|16-G/T 100109477|22-G/A 6665563|54-C/T 6665566|58-T/C   
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## 6665567|59-A/G 6665600|6-T/C 6665637|6-G/C 6665638|50-G/C 6665992|26-C/T 6666146|48-T/C   
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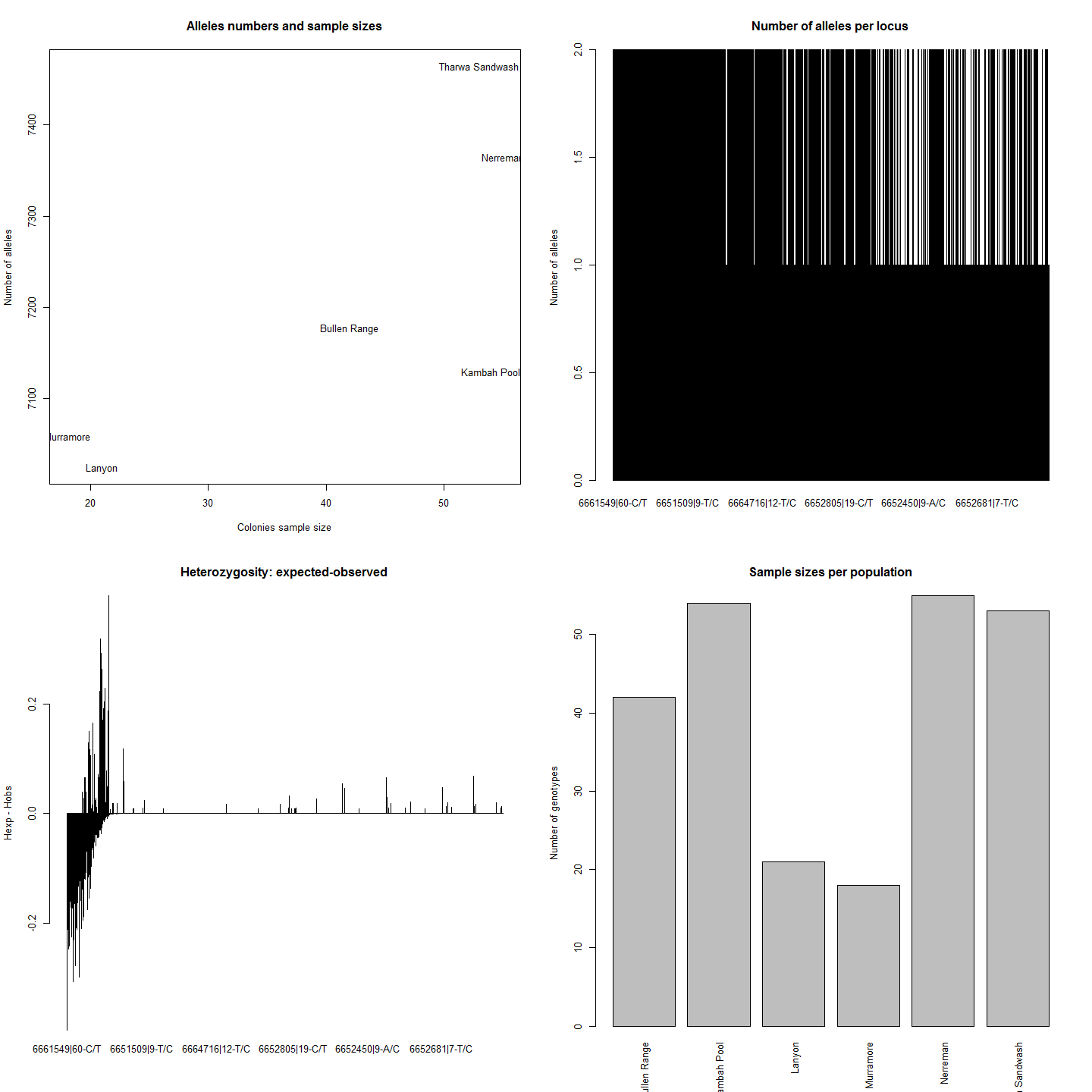
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## 6665217|18-A/G 6661207|60-A/C 6661398|51-C/T 6651899|27-T/A 6653020|28-A/C 6653704|64-T/G 6650504|59-T/C 6652003|38-G/C 6661105|11-G/T 6661432|29-C/A 6652162|44-A/T   
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## 6661688|18-A/G 6666128|43-C/G 6652433|13-A/G 6652352|5-T/C 6664270|14-C/A 6651416|17-C/T 6664751|11-T/A 6657734|47-A/G 6663081|18-A/G 6651148|64-A/T 6656916|22-T/C   
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## 6653573|49-T/C 6661198|22-T/G 6665027|17-A/T 6664900|6-C/T 6650826|66-G/A 6653766|40-A/C 6665588|8-C/T 6652573|8-C/A 6652700|14-C/G 6664334|9-A/G 6651772|17-A/T   
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## 6651828|36-G/A 6650476|13-A/C 6651474|15-T/C 6652836|30-C/T 6653346|25-C/A 6658563|22-C/T 6661870|10-G/T 6657169|37-T/C 6661569|7-A/G 6652342|46-G/A 6656937|18-C/T   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6661537|56-G/A 6664008|14-G/A 6651473|53-G/A 6661884|29-T/A 6662691|24-C/T 6661181|61-C/T 6651798|39-C/A 6661610|46-T/C 6653512|60-C/G 6651413|19-C/A 6651436|18-C/T   
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## 6653019|13-C/T 6661633|39-G/T 6653539|14-G/C 6652507|49-A/G 6662661|7-T/C 6661859|57-A/G 6661395|60-C/T 6661690|43-G/A 6653303|26-C/T 6650697|6-C/A 6661748|26-C/T   
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## 6661276|34-A/G 6651590|59-C/G 6661435|48-G/A 6664012|53-A/G 6651071|8-C/T 6661174|27-G/A 6657901|34-G/A 6661288|56-T/C 6664895|15-G/A 6665065|54-A/G 6653483|52-C/T   
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## 6650679|43-C/T 6661246|33-G/A 6653043|54-C/G 6651254|12-A/T 6653789|32-G/T 6650988|24-G/A 6650862|68-C/A 6653541|8-A/G 6662900|30-G/A 6653618|37-G/A 6664721|14-C/T   
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## 6653127|48-G/A 6652179|62-G/A 6664422|18-A/G 6661732|8-C/T 6658587|26-G/A 6661161|53-A/C 6657089|25-C/T 6650998|9-A/T 6652379|23-G/C 6652823|50-C/A 6653209|28-G/C   
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## 6664750|24-C/T 6666098|18-G/A 6664416|28-A/G 6661208|26-A/T 100017494|26-T/C 6657426|10-G/T 6650467|17-T/C 6661591|23-T/C 6661615|53-A/G 6651689|52-C/T 100093282|6-C/T   
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## 6664065|56-A/T 6662654|14-C/T 6661258|19-T/G 6661326|21-G/T 6661503|51-G/A 6665677|54-T/C 6651345|67-A/G 6653158|39-C/T 6661434|33-C/T 6650700|61-G/A 6665573|50-G/T   
## 2 2 2 2 2 2 2 2 2 2 2   
## 100103686|15-C/T 6661407|28-A/T 6662956|24-T/G 6653198|44-C/T 100119886|12-A/G 6653976|22-T/C 6661123|44-T/C 6661423|44-C/T 6661694|9-T/C 6653208|48-G/A 6661587|35-T/C   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6653932|10-C/T 6657861|14-G/A 6664287|35-C/T 6653108|33-A/G 6650863|33-C/T 6653166|35-T/C 6652001|24-A/G 6657913|25-C/G 100109898|15-G/A 6661240|65-T/A 6661268|13-G/A   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6653580|43-G/T 6657145|22-C/A 6661660|20-C/T 6652645|41-C/T 6651100|28-C/T 6661548|20-A/G 6657725|32-C/T 6652908|9-A/T 6661838|60-T/G 6652562|28-G/A 6654077|33-C/T   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6661761|38-G/A 6658102|52-C/T 6657350|31-T/A 6651178|33-C/T 6661253|38-T/C 100104030|16-C/A 6664895|24-C/A 6653522|21-A/G 6661899|11-A/G 6650883|48-C/T 6661607|53-C/G   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6654004|30-T/A 6653722|5-T/G 6654003|26-C/A 6652045|5-C/T 6658305|27-T/C 6657714|46-T/C 6661603|40-G/C 6650949|5-A/T 6664725|29-A/G 6657697|38-A/G 6661471|62-C/G   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6661765|40-G/A 6661481|66-A/C 6653282|53-T/C 6652110|26-C/T 6652196|51-C/T 6652944|56-G/A 6658191|17-C/G 6661286|15-G/A 6653684|7-T/C 6653203|66-A/G 6661751|44-T/G   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6661711|66-G/A 6650674|36-C/T 6653554|14-G/A 6651804|55-G/C 6664076|29-C/A 6663980|50-G/A 100102214|5-C/T 6653379|50-A/G 6651865|33-T/G 6661260|22-A/T 6651954|62-T/C   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6656942|42-G/A 6652635|57-G/A 6661149|41-C/T 6650632|65-G/A 6650568|31-G/C 6650938|6-C/T 6658511|21-A/C 6654094|65-T/C 6653106|31-C/T 6661381|44-A/G 6652779|66-A/G   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6650898|47-G/A 6657805|7-A/G 6661727|46-C/T 6662592|9-C/T 6661085|13-C/T 6661239|45-A/G 6665990|9-G/C 6650977|39-G/A 6652000|22-C/T 6658391|30-C/T 6661184|41-C/G   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6651519|67-C/G 6652011|54-C/T 6661376|29-C/T 6650669|9-A/G 100073501|45-A/G 6651742|50-G/A 6653416|29-C/T 6661643|49-G/A 6650635|62-G/A 6651529|9-C/T 6652878|58-G/T   
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## 6665222|67-C/A 6661481|18-C/T 6665990|48-C/G 6661216|67-C/T 6663955|62-T/C 6652246|10-G/A 6661167|12-T/A 6661710|53-G/A 6664085|17-G/T 6661652|62-A/C 6657045|15-A/G   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6661805|6-C/G 6652339|26-G/T 6661277|47-G/A 6661335|49-T/G 6652597|28-C/T 6661737|51-G/T 6664079|62-A/T 6661334|49-G/T 6661187|52-C/T 6653800|24-G/A 6665242|22-G/A   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6651247|35-C/G 6653693|39-C/A 6661436|12-T/C 6650629|61-C/A 6653328|49-C/T 6650603|26-A/G 6651494|48-G/A 6652060|23-C/T 6657933|10-C/T 6651038|40-T/C 6664362|28-C/T   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6651571|67-C/T 6664050|15-A/G 6652084|30-C/T 6661846|32-C/T 6653638|33-A/C 6657305|12-A/C 6663909|36-C/T 6661305|58-A/G 6657606|35-G/A 6661206|19-A/C 6657339|6-G/A   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6657292|22-T/A 6661485|59-A/G 6650475|43-C/T 6652083|41-G/A 6663998|25-T/C 6661115|22-T/G 100102214|35-G/A 6651822|26-T/C 6653698|49-A/T 6651072|34-A/C 6661221|40-G/A   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6664084|45-C/T 6664046|47-A/G 6664412|13-G/A 6652764|38-C/T 6652859|41-C/T 6662842|43-C/T 6653459|28-T/C 6652467|20-G/T 6658444|32-T/G 6663948|54-G/A 6661848|65-T/G   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6661692|19-C/T 6661666|47-C/A 6657189|5-T/A 6663931|25-C/T 6661747|23-A/G 6664777|21-T/G 6657196|41-G/A 6662626|20-G/C 6661431|59-G/A 6651183|67-C/T 100020564|19-A/G   
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## 6658409|20-A/C 6661097|28-C/T 6657230|7-A/G 6661119|56-G/A 6661554|36-A/G 6650618|9-G/C 6653999|19-C/T 6663991|5-C/T 6652381|42-A/T 6651915|13-C/T 6662884|19-C/T   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6664330|6-A/G 6658057|21-T/G 6664271|29-T/G 6658345|31-A/G 6664281|18-T/A 6651466|33-G/A 6651085|26-C/T 6653605|24-T/C 100044679|44-A/G 100115090|8-A/G 6661464|30-G/T   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6650884|45-C/T 6661861|5-T/C 6651870|51-T/C 6650549|15-C/T 6662909|15-A/C 6661345|10-T/C 100096951|40-T/A 6651934|39-C/A 6653561|20-A/G 6663982|40-G/A 6661677|22-C/T   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6661705|29-C/G 6661413|63-C/T 100065757|18-C/G 6661266|30-A/G 6661310|64-T/C 6661349|63-A/G 100116458|50-G/A 6665749|7-G/A 6652731|67-C/G 6653078|31-C/T 6653889|13-C/T   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6650390|62-T/A 6665512|36-G/A 6653694|33-C/T 6661130|57-A/C 6650397|43-A/G 6652725|65-G/A 6664898|31-T/A 6664740|45-G/A 6661717|60-G/A 6661866|27-T/C 6661803|57-G/C   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6653812|35-T/C 6653634|39-G/A 6653421|13-A/G 6653117|34-C/G 6652078|22-T/A 6663918|8-C/G 6651738|38-G/C 100073717|6-G/A 6662614|36-C/T 6663009|7-C/T 6665630|52-T/C   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6661118|33-G/A 6651890|7-G/A 6650967|42-C/A 6661605|18-C/T 6651286|19-T/A 6653631|43-C/T 6661436|18-C/T 6661386|46-C/T 6656991|15-A/G 6658489|9-C/T 100018527|6-C/T   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6663957|56-G/A 6653138|31-G/A 6653361|55-G/A 6662597|30-A/G 6653013|37-T/C 6664770|35-T/G 100018912|62-G/T 6650463|42-T/A 6664775|59-A/G 6651694|29-A/T 6664064|49-A/G   
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## 6652918|18-G/A 6651840|35-G/A 6651055|13-G/A 6653477|22-A/T 6661719|26-T/A 6661828|67-T/A 6654030|47-G/A 6665066|58-G/C 6653260|47-G/T 6650860|49-G/A 6654039|20-G/A   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6665336|52-C/T 6650985|20-G/A 6665243|28-G/C 6662888|44-A/C 6665236|63-T/C 6663983|17-C/T 100066027|14-A/T 6653607|5-T/C 6661170|39-C/T 6661781|60-G/A 100073694|44-G/A   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6663947|55-T/C 6661831|54-T/C 6652266|47-T/C 6663080|20-G/A 6665672|66-T/A 6658491|28-C/A 6661680|19-G/T 6662595|39-C/T 6665990|6-A/T 6657377|47-C/T 6661828|68-T/A   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6651958|27-A/G 6653919|17-C/T 100021874|46-A/G 100016068|62-T/A 6665489|31-C/T 100082278|57-C/T 6651291|51-G/T 6653890|21-C/T 6663954|56-C/A 100021943|40-T/C 6652214|62-T/A   
## 2 2 2 2 2 2 2 2 2 2 2   
## 100022950|33-A/C 6651253|68-C/T 6650643|36-C/A 6652860|42-G/A 6664014|62-G/A 6661808|48-C/T 6658138|27-A/C 100017513|60-C/T 6661261|32-C/T 6652821|67-C/T 6666304|10-A/T   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6665455|61-G/T 100082682|51-T/C 6653384|6-A/G 100023325|25-A/G 100101067|36-C/T 6651685|49-T/A 6653586|60-T/C 6666177|13-A/T 6652540|8-G/T 6651209|49-A/G 100066244|11-A/T   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6652377|20-G/A 6661200|23-T/G 100064741|45-G/C 6658040|18-T/A 6653702|48-T/C 6652310|50-C/T 100080867|16-C/T 6665067|64-C/A 6653076|28-C/T 6653648|6-G/A 6651991|67-A/T   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6661634|15-T/G 6664050|24-G/C 6652868|58-A/G 6661564|13-A/G 6650547|43-C/G 100064827|8-G/C 6650552|61-G/A 6661602|25-T/C 6661456|61-G/A 6651197|66-T/A 6652994|27-C/T   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6661887|13-A/T 6661310|58-T/C 6650745|19-T/G 100017712|8-T/A 6651911|52-G/A 6650417|11-A/C 6652308|53-T/G 6661174|36-C/T 6651243|32-G/A 6662595|43-G/A 6661238|17-G/T   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6653091|46-C/G 6651733|50-G/A 6661209|58-G/A 6662998|47-T/C 6650989|12-C/T 6661260|32-A/C 6664754|18-T/C 6653705|22-C/A 6651897|14-A/G 6661468|27-G/A 6662877|32-C/T   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6652769|52-G/A 6657468|35-T/C 6664040|37-G/T 6654036|20-C/G 6652581|49-T/C 6663926|28-C/T 6650558|18-A/C 6650767|11-C/T 6650470|54-G/A 6652008|64-T/A 100066158|21-G/A   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6661900|39-T/C 100022191|13-A/T 6665045|39-A/T 6652766|56-A/G 6652767|24-T/A 6651271|49-G/A 6661314|26-G/A 6653619|65-T/C 100116986|5-T/C 100116987|6-T/G 6653081|42-A/G   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6664720|40-A/G 6652605|24-T/C 6661530|52-T/G 6653380|28-A/G 6661534|38-G/A 100100705|17-C/A 6661784|26-C/G 6653485|62-T/C 6658269|15-G/A 6657310|18-C/G 6653319|56-C/A   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6662895|13-G/A 6650569|12-C/A 100018011|33-A/T 6653025|64-G/A 100020592|58-C/G 6651157|23-G/A 6652995|7-T/C 6664385|5-T/G 100080823|15-G/A 100098565|15-A/G 6662594|6-A/G   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6662608|14-T/C 100111015|17-T/A 6651630|13-G/A 100015677|15-G/A 100021199|37-T/C 6651723|7-T/C 6651946|25-T/C 6652107|59-C/T 6662703|23-A/G 6656926|24-G/A 6662639|8-G/T   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6644134|13-A/C 100015999|30-C/T 6651264|67-C/T 100082192|45-T/C 6658187|20-A/G 6658030|16-T/G 6664447|43-A/G 6657081|38-A/G 6657519|27-C/A 6657646|21-G/A 6658294|22-A/G   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6663106|39-T/C 6665877|8-T/C 6657134|12-C/T 6662930|5-G/T 100073664|24-C/A 100093267|33-A/T 6665045|33-A/T 6653064|39-T/C 6652028|11-T/C 6652053|54-A/G 6661327|40-C/T   
## 2 2 2 2 2 2 2 2 2 2 2   
## 100020810|55-A/G 6661141|23-C/T 100018274|35-A/G 100020489|64-T/C 100021048|30-T/C 100021494|48-T/C 100015195|36-C/T 6652099|5-C/T 100019298|65-T/C 100020731|53-A/G 100065190|44-T/C   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6651997|59-A/G 6658436|20-C/T 6650975|51-G/A 6657565|7-G/A 6658077|34-T/C 6652620|41-C/T 6657312|42-G/A 6657368|39-G/A 6657412|9-T/G 6657526|48-C/T 6658588|11-C/T   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6662668|7-A/T 6662868|15-G/A 6663029|17-G/A 6664446|24-T/C 100086116|7-C/A 100093344|14-G/C 100098451|30-G/T 100104877|27-G/A 6656935|13-T/G 6657240|11-C/T 6657387|17-A/T   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6658126|24-C/G 6662893|11-C/G 100098564|20-T/C 100108662|16-G/A 100090375|13-A/C 6654111|67-T/C 100018022|29-C/T 100018793|30-G/A 100019919|22-G/A 100020224|39-A/G 100021950|26-G/A   
## 2 2 2 2 2 2 2 2 2 2 2   
## 100065898|33-G/A 100016342|65-A/G 6653141|47-T/A 100020182|5-A/G 100017739|16-A/G 100019425|22-T/C 100019993|60-T/C 100020111|24-T/C 100022090|7-C/A 100020509|41-C/T 100019969|57-T/C   
## 2 2 2 2 2 2 2 2 2 2 2   
## 100021750|68-T/G 6650682|7-C/T 100073640|6-A/G 6658242|13-G/A 6661085|49-C/T 6650645|14-C/G 100022464|43-T/A 100065437|41-T/C 6652497|42-C/A 6653265|58-G/C 6653475|24-G/A   
## 2 2 2 2 2 2 2 2 2 2 2   
## 100021941|30-C/T 6658496|17-G/A 6661755|16-A/C 6661423|60-C/T 100015613|67-G/A 6652888|64-A/G 6657111|13-T/C 6658119|34-T/A 6661367|26-G/T 100111976|26-A/G 100016385|11-T/C   
## 2 2 2 2 2 2 2 2 2 2 2   
## 100073644|37-C/T 6650454|46-A/G 6650627|13-T/C 6651042|67-C/T 6652424|44-T/C 6653438|30-C/T 6653954|43-A/G 6657314|43-G/A 6657355|38-G/A 6657359|15-A/G 6657460|29-G/A   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6657482|8-A/G 6657781|17-C/A 6661090|62-A/T 6661394|35-A/G 6662671|17-A/G 6662872|17-G/T 6663077|27-G/T 100080773|11-T/C 6650529|9-A/G 6651847|21-G/A 6652313|42-C/T   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6656897|6-A/T 6657147|18-G/A 6657176|29-T/G 6657326|12-G/A 6657353|6-A/G 6657411|13-G/A 6657545|31-T/C 6657603|29-G/A 6657689|26-G/A 6657743|8-C/G 6657998|8-A/G   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6658208|29-C/T 6658287|13-A/G 6658348|17-A/T 6658475|20-C/A 6658498|16-G/A 6658580|46-G/C 6661448|44-G/T 6661799|23-C/T 6662617|41-T/G 6662633|33-G/C 6662813|9-G/T   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6662843|9-A/G 6662968|7-T/C 6662976|12-A/C 6664360|25-T/C 6664442|16-C/T 6664875|15-A/G 100021224|39-C/T 100073899|13-T/C 100098800|29-G/T 100100663|9-T/A 6650431|37-G/A   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6656974|5-A/T 6657112|32-C/T 6657945|33-T/A 6658433|38-T/A 6664304|20-G/T 6664309|9-T/C 100116189|14-C/A 100045177|15-A/G 100073820|20-A/G 100086048|24-A/T 100098455|12-T/G   
## 2 2 2 2 2 2 2 2 2 2 2   
## 100098486|16-T/A 100098772|34-A/T 100112391|7-C/G 6651055|18-T/C 100086270|5-G/C 100112446|22-G/C 6661857|31-C/T 6658676|11-C/G 100016220|5-A/G 100021127|7-A/G 6665873|25-A/G   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6654134|52-T/A 100016595|6-G/A 100021410|63-C/T 100023315|21-T/C 6653760|49-C/A 100021585|32-T/G 100023219|12-A/G 6658683|43-C/T 100064732|20-A/G 100016355|33-T/C 100019393|16-C/T   
## 2 2 2 2 2 2 2 2 2 2 2   
## 100020119|15-A/G 100022894|28-G/A 100082537|56-C/T 100016273|19-A/G 100023327|12-C/T 100015858|19-C/T 100022410|6-G/A 100017258|51-G/T 100019095|48-C/T 100020063|20-G/A 100015954|31-A/G   
## 2 2 2 2 2 2 2 2 2 2 2   
## 100021964|13-G/C 100085852|36-T/C 6651226|18-G/C 100021819|62-A/C 100022277|8-T/G 100064827|60-G/T 100018209|24-G/C 100022569|31-G/A 6653298|40-A/G 100015576|20-G/A 100016155|45-A/G   
## 2 2 2 2 2 2 2 2 2 2 2   
## 100018361|5-C/T 100018644|13-A/G 100065285|54-G/A 100066085|48-C/G 100066350|63-A/G 100082653|31-C/G 100019242|15-T/C 100065918|65-C/T 100082574|16-T/C 100112503|22-T/C 6651116|23-G/A   
## 2 2 2 2 2 1 2 1 2 2 1   
## 6664424|11-C/T 100017539|66-C/A 100019104|53-C/T 100020067|42-A/C 100020868|41-A/G 100064882|50-T/C 6658317|12-A/T 6661605|7-T/C 6664288|12-C/T 100016786|17-G/A 100020956|6-T/C   
## 2 2 2 2 2 2 2 1 2 2 1   
## 100016197|32-C/T 100017640|9-C/G 100018738|55-G/T 6651375|43-G/A 6651394|40-A/T 6657692|30-G/C 6661438|21-G/A 100015230|14-A/T 100015429|54-A/G 100016348|67-T/C 100022665|32-G/A   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6650646|12-A/G 6651058|8-C/T 6652871|25-G/T 6653284|49-A/G 100020780|47-T/C 100082291|18-C/T 6657270|16-C/A 6658306|32-A/G 6663971|20-C/T 100018785|45-G/A 100019578|24-A/G   
## 1 2 2 2 2 2 2 2 2 2 2   
## 100021429|16-A/G 6651301|13-T/C 6653801|25-T/C 6662791|9-T/C 6665675|15-G/A 6665677|34-G/A 6651053|25-C/T 6651062|23-G/C 6657266|49-A/G 6661781|11-G/A 6662884|20-G/A   
## 2 2 1 2 2 2 2 2 2 1 2   
## 6661633|24-T/C 100064957|57-C/G 6650480|42-G/T 6651168|20-T/C 6651202|6-G/T 6651669|51-A/T 6651901|52-A/G 6652133|6-G/A 6652277|34-G/T 6652429|23-C/A 6652852|41-C/T   
## 1 2 2 2 2 2 2 2 2 1 2   
## 6653859|66-G/C 6657107|30-C/T 6657341|14-T/G 6657827|41-T/C 6657863|36-T/C 6657972|11-T/G 6658332|28-G/A 6661576|17-T/C 6662852|8-G/C 6665753|18-G/A 6665974|16-T/A   
## 1 2 1 2 2 2 2 1 1 2 2   
## 6665974|39-G/C 100022319|61-G/T 100066473|44-C/T 6650457|59-C/T 6650512|39-G/A 6650541|48-T/C 6650816|44-C/T 6651070|58-A/C 6651408|58-C/G 6651681|14-C/T 6651690|41-A/G   
## 2 2 2 2 2 1 2 1 2 1 1   
## 6651751|52-A/G 6651951|29-T/C 6652480|24-G/A 6652536|25-A/G 6653136|38-A/G 6653193|66-G/C 6653366|47-T/C 6653406|51-T/C 6653654|13-A/G 6653743|54-T/C 6653795|65-G/T   
## 2 2 2 2 2 2 2 2 1 2 2   
## 6656968|20-T/C 6657138|49-C/T 6657141|6-G/A 6657590|27-T/C 6657970|16-C/G 6658518|17-G/A 6658664|15-C/A 6661383|36-A/G 6661406|53-T/C 6661709|47-A/C 6661820|30-C/T   
## 2 2 2 2 1 2 2 2 1 2 2   
## 6661892|24-C/T 6662654|9-C/A 6662663|5-A/T 6663104|29-A/G 6664717|21-A/G 6665800|40-A/C 6665804|30-T/C 100018586|15-A/G 100045576|29-G/A 100064632|55-G/A 100124805|23-T/C   
## 2 2 1 2 2 1 2 2 2 2 1   
## 6650420|21-G/A 6650787|62-C/A 6650795|22-T/C 6651016|52-G/A 6651805|15-A/G 6652208|23-C/T 6652257|65-G/T 6652383|57-G/C 6652388|11-A/G 6652788|54-A/G 6652943|57-G/A   
## 2 1 2 2 1 2 2 1 1 1 1   
## 6653199|35-A/C 6653447|32-A/G 6653467|25-G/A 6653565|10-G/C 6653569|24-A/T 6654084|42-A/G 6656901|37-A/C 6656919|48-T/A 6656965|28-C/T 6657179|25-G/A 6657434|21-C/A   
## 2 2 2 1 2 2 1 2 2 2 2   
## 6657454|17-T/C 6657477|8-A/G 6657523|10-C/T 6657578|8-C/T 6657628|10-A/G 6657698|41-A/G 6657753|24-G/A 6657784|15-C/G 6657818|27-A/G 6657821|26-T/C 6657854|14-G/A   
## 1 2 2 2 2 2 1 2 2 2 2   
## 6657918|33-T/A 6657923|13-T/C 6657975|18-C/G 6658063|26-T/C 6658152|11-T/C 6658175|49-T/C 6658353|18-G/T 6658417|35-C/A 6658431|14-A/G 6658485|8-A/G 6658531|35-G/A   
## 2 2 2 2 2 2 2 2 2 1 2   
## 6661099|20-G/A 6661250|41-T/C 6661252|5-A/G 6661823|31-T/C 6661826|50-T/A 6661853|33-G/A 6662682|18-G/C 6662708|45-C/A 6662717|10-T/A 6662720|17-G/A 6663956|7-C/T   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6664324|31-T/C 6664897|36-T/G 6664904|21-A/G 6665135|35-C/T 6665977|58-C/T 100062054|9-T/G 100066053|65-C/G 100073867|18-T/C 100098449|11-T/C 100102329|39-G/C 100104849|27-A/C   
## 1 2 2 2 2 1 1 2 2 2 2   
## 100118311|8-T/G 6651728|12-T/C 6651869|31-G/A 6651992|39-T/C 6652070|15-A/G 6652698|58-A/G 6653498|29-C/G 6656984|39-A/T 6656988|16-A/T 6657054|5-A/G 6657255|43-C/T   
## 1 2 1 1 2 2 2 2 2 2 2   
## 6657257|18-T/G 6657264|21-A/C 6657486|25-A/G 6657731|27-T/C 6657762|30-T/G 6658275|5-T/C 6658351|8-T/A 6658356|40-T/A 6662713|37-C/T 6662735|7-T/C 6662802|35-T/C   
## 2 2 2 2 2 2 2 1 2 2 1   
## 6664285|14-G/T 6664286|5-A/G 6664411|22-G/A 100116189|12-G/A 100020566|50-G/A 100073416|9-G/C 100073555|13-T/C 100073946|24-C/A 100082262|34-C/T 100082279|42-T/G 100093533|7-G/T   
## 2 2 2 2 2 2 1 2 2 1 2   
## 100093556|10-T/A 100093571|9-A/T 100093658|5-T/C 100102354|38-T/G 100102368|8-T/C 100108745|39-G/C 100124806|24-A/G 6652013|36-G/A 100019613|42-A/G 6653942|18-C/G 100021748|48-G/A   
## 2 2 2 2 2 2 1 2 2 1 2   
## 100022307|64-C/T 6661279|61-A/G 100016043|65-A/G 100021551|26-C/G 6651509|9-T/C 100015681|31-G/A 100022444|19-C/T 100065978|51-A/C 100015971|32-G/A 100018341|11-C/T 100018791|30-T/A   
## 2 2 2 1 1 2 2 1 2 2 2   
## 100021444|27-G/T 6651402|31-T/C 6652371|36-A/G 100016955|21-T/C 100017267|60-T/C 100017271|28-T/A 100017633|14-G/T 100018216|18-C/T 100018585|65-G/A 100018930|7-A/G 100019458|6-T/C   
## 2 2 1 2 1 2 2 2 1 2 2   
## 100020508|64-T/C 100021998|13-T/C 100065288|30-C/T 6657675|5-C/T 100018006|38-A/G 100018907|18-T/C 100018908|67-C/T 100019522|42-C/T 100021552|23-G/T 100021990|59-T/C 100066166|11-T/A   
## 2 2 1 2 2 2 2 2 2 2 2   
## 6651977|40-G/C 6661494|35-T/C 6661600|20-T/C 100023675|41-A/G 100064707|39-C/T 100066332|9-G/A 100111975|14-G/C 100015765|23-G/A 100017875|29-A/G 100019456|25-T/C 100019962|30-A/G   
## 1 1 1 2 2 2 2 2 2 2 2   
## 100020185|57-C/A 100020870|33-C/G 100021266|13-G/A 6651172|33-A/G 100015703|20-A/G 6653988|60-A/T 100018373|30-C/T 100020483|16-G/A 100022388|34-C/T 100022854|43-G/T 100023104|56-C/T   
## 2 2 2 2 2 2 2 2 2 2 1   
## 100023409|22-T/C 100086339|36-T/G 6651925|23-G/C 100120327|18-G/A 100120327|6-G/A 100016290|59-A/C 100020594|60-T/A 100022242|47-G/T 100022320|10-T/C 100022502|23-T/A 6651745|39-T/C   
## 2 2 1 1 2 2 2 1 2 2 2   
## 6661848|25-T/G 100016236|36-G/T 100016349|39-A/G 100016910|15-T/A 100020122|19-C/G 100021092|17-T/C 100022165|12-A/G 100023470|59-G/A 6661692|56-G/A 100016458|65-C/G 100018964|48-T/G   
## 2 2 2 2 2 2 2 2 1 1 1   
## 100021554|25-A/G 100023185|19-T/G 6650701|18-A/G 6652394|37-T/C 6653506|13-T/A 6664058|35-C/T 100016479|45-A/T 100017508|19-C/G 100018962|16-T/C 100022682|11-A/T 100066335|57-A/T   
## 2 1 2 1 1 1 1 1 2 1 1   
## 100082668|8-A/T 6658494|15-A/G 100015625|54-A/G 100016249|62-A/C 100016393|18-A/T 100016660|55-C/T 100017075|58-G/A 100017124|8-A/G 100017541|11-T/A 100018026|11-T/C 100019630|31-T/C   
## 2 2 1 2 2 2 2 2 2 2 1   
## 100019855|44-T/C 100019873|44-G/A 100019915|44-G/T 100022465|65-C/G 100022648|51-G/A 100044512|21-C/T 6650696|57-G/A 6653452|20-G/A 100015340|55-T/G 100017500|23-A/C 100020588|47-C/A   
## 2 1 1 1 2 2 2 1 2 2 1   
## 100022422|51-G/T 100022425|5-T/C 100023388|34-C/A 100023484|57-G/A 100023525|29-A/G 100064648|32-T/C 100065646|5-C/A 100073396|12-C/T 100073814|33-T/C 6650655|58-G/A 6651105|51-A/C   
## 1 2 1 2 2 2 2 1 2 1 1   
## 6651192|9-A/G 6652274|53-T/C 6652608|18-G/C 6652649|33-C/G 6653266|5-T/A 6661462|57-A/G 100016352|41-C/T 100016515|37-T/A 100016629|18-T/C 100017186|6-T/C 100018441|46-A/T   
## 1 1 2 1 1 1 1 1 2 2 2   
## 100019819|59-T/G 100021768|16-G/T 100022658|14-G/A 100022749|22-C/T 100023505|21-C/G 100064613|60-T/C 6650443|20-C/T 6650647|27-A/C 6650672|16-T/C 6650875|47-G/A 6652044|30-A/G   
## 2 2 2 1 2 2 1 1 2 2 1   
## 6652814|39-C/T 6653050|59-G/T 6653245|23-A/G 6653382|37-T/C 100015237|28-T/A 100016165|7-G/A 100017157|49-G/A 100017486|22-T/G 100019175|10-C/G 100019665|26-G/A 100020841|64-T/C   
## 1 1 2 1 1 2 2 2 1 2 2   
## 100120329|23-A/G 6650705|36-C/T 6651136|7-G/C 6651295|17-C/T 6651888|7-A/G 6652092|41-A/G 6652390|29-T/C 6653344|40-A/G 100017290|62-G/T 100017981|57-C/T 100018180|55-T/C   
## 2 1 1 1 1 2 1 1 1 1 2   
## 100018460|39-T/G 100018667|65-G/A 100019573|61-A/C 100020403|29-G/T 100023540|56-T/G 100065318|8-A/G 100066600|5-T/C 100066622|14-T/C 100086014|36-T/C 100098840|27-G/A 6650711|25-C/A   
## 2 2 1 2 1 1 1 2 2 2 1   
## 6651249|51-G/C 6653001|20-G/A 6653114|14-T/A 6653811|17-T/C 6661187|29-A/C 100015694|44-A/T 100016554|8-A/G 100017386|12-G/A 100017844|43-G/A 100020562|42-C/G 100021051|67-G/T   
## 1 1 2 1 1 2 2 2 2 1 2   
## 100065266|5-T/C 6650693|44-C/T 6651276|7-A/G 6651724|68-A/G 6652175|66-T/C 6652356|17-A/G 6653008|30-C/G 6653473|47-C/T 6653869|47-T/G 6654016|14-A/G 6664729|22-C/T   
## 1 1 2 1 2 2 1 1 1 1 2   
## 6661750|65-G/A 100016089|30-C/T 100017364|16-A/G 100017568|38-A/G 100017636|20-G/A 100018230|62-T/C 100020647|25-G/A 100023048|6-T/C 100023313|65-G/T 100023842|66-T/C 6650662|57-T/A   
## 1 1 1 2 2 1 2 2 2 2 1   
## 6650857|56-T/C 6650871|15-T/G 6652354|41-T/G 6652712|18-A/G 6652897|32-G/A 6653119|17-A/G 6653277|45-G/C 6653413|34-C/T 6653686|19-A/G 6653906|8-T/C 6656936|12-G/A   
## 1 1 2 1 2 2 1 1 1 1 2   
## 6658216|16-T/C 6661637|61-A/T 6664071|59-C/T 6652420|13-T/G 100017654|43-G/C 100021742|38-C/A 100044665|10-T/G 100064985|48-C/T 100065246|12-A/G 100066557|28-C/T 100082397|38-C/A   
## 1 1 1 1 2 1 2 1 2 1 1   
## 6650620|8-A/G 6650692|56-G/A 6650978|6-G/A 6651221|15-T/C 6651235|33-A/G 6651703|33-T/C 6651891|44-T/C 6652170|11-A/G 6652463|46-A/C 6652496|43-C/T 6653226|65-A/G   
## 1 2 2 1 1 1 1 2 2 1 1   
## 6653778|39-T/A 6654074|20-G/T 6658572|16-A/G 6661139|49-C/A 6661309|12-G/A 6661345|40-C/G 6662659|12-A/C 100120331|53-T/G 100020242|53-A/G 100021807|31-T/C 100065925|36-C/T   
## 2 1 2 1 1 2 2 2 1 1 2   
## 100066073|6-T/C 100102122|31-C/A 6650428|57-G/T 6652370|62-G/A 6653373|60-G/T 6653417|48-C/G 6653777|46-G/T 6653792|53-C/A 6654058|18-T/C 6661147|26-G/C 6661226|53-C/T   
## 2 2 1 1 1 2 1 2 2 1 2   
## 6661658|19-C/T 6661670|43-T/C 6663906|23-C/T 6664040|9-G/T 100017806|36-A/G 100019553|65-G/A 100020150|48-T/C 100022824|15-T/C 100045255|15-T/C 100064683|52-A/G 100065044|38-G/T   
## 1 1 1 2 2 2 1 2 1 2 1   
## 100065331|11-A/G 100082376|10-G/T 100114017|32-T/C 6650513|52-C/T 6650793|26-A/C 6650805|11-A/G 6650968|18-A/T 6651099|28-A/G 6651150|45-T/C 6651383|67-T/G 6651541|66-T/C   
## 1 1 1 2 1 1 1 1 1 1 2   
## 6651588|49-C/T 6651711|11-A/G 6651715|59-C/G 6651731|68-G/T 6652027|41-G/A 6652109|27-A/G 6652130|35-T/C 6652152|19-T/G 6652278|43-G/C 6652658|29-A/T 6652840|16-G/A   
## 2 1 1 1 2 2 1 1 2 1 2   
## 6652867|64-C/T 6652883|26-G/C 6653149|58-C/T 6653187|24-G/T 6653229|41-A/G 6653591|11-G/C 6653796|8-T/C 6653829|21-C/A 6653872|47-G/T 6653967|40-G/A 6657086|36-C/A   
## 1 1 2 1 1 1 2 1 1 1 1   
## 6657671|40-C/T 6657902|21-T/C 6661102|10-A/G 6661477|67-A/G 6661483|14-G/C 6661530|26-C/G 6661560|54-A/G 6661564|45-T/A 6662672|28-C/A 6664046|51-T/C 6664055|23-C/T   
## 1 1 1 1 2 2 1 1 1 2 1   
## 100120332|58-C/A 100120330|33-G/T 100015220|59-C/A 100016151|11-T/C 100016562|12-G/A 100016798|34-C/T 100021467|36-G/A 100065538|21-A/T 100065912|28-G/A 100098480|21-A/C 6650742|33-G/A   
## 2 2 1 2 2 1 1 2 2 1 2   
## 6650889|38-G/T 6651263|53-A/C 6651318|7-C/T 6651340|27-C/T 6651392|24-C/T 6651403|11-C/A 6651475|6-A/G 6651645|50-G/A 6651662|13-T/A 6651726|49-G/A 6651740|27-G/A   
## 1 1 2 1 2 1 1 1 1 1 1   
## 6651858|23-A/G 6651880|60-C/T 6651889|58-T/C 6651919|45-G/T 6652026|29-G/T 6652151|12-T/C 6652259|45-G/T 6652382|40-G/A 6652492|21-C/T 6652504|25-A/G 6652541|50-A/G   
## 2 1 1 1 1 1 2 2 1 1 1   
## 6652568|29-G/T 6652593|5-G/T 6652667|36-T/C 6652794|64-C/T 6652856|20-T/A 6653235|13-T/G 6653395|26-G/A 6653420|50-G/A 6653458|58-C/T 6653463|23-A/G 6653479|25-T/C   
## 1 1 1 1 1 1 2 1 2 2 1   
## 6653599|33-C/T 6653745|15-T/C 6653871|33-G/A 6653881|45-G/A 6657644|31-G/T 6657994|16-G/A 6658139|28-G/A 6658379|30-A/G 6658529|38-A/G 6658559|22-T/G 6658652|28-T/C   
## 1 2 1 1 1 2 1 2 2 1 2   
## 6658660|28-C/G 6661093|40-C/A 6661130|16-T/C 6661369|40-T/C 6661393|35-C/A 6661665|50-T/C 6661672|7-G/A 6661712|36-C/T 6663057|27-A/C 6663982|51-T/G 6665517|21-A/T   
## 1 1 1 1 2 1 1 2 2 1 2   
## 6665665|51-T/C 6665807|65-G/A 100104824|10-C/A 100020394|66-C/G 100020441|43-A/C 100021095|9-T/C 100021324|61-A/G 100044982|27-T/C 6633176|7-T/C 6650394|45-T/C 6650524|64-C/A   
## 2 1 2 2 2 1 1 1 1 1 1   
## 6650526|41-A/C 6650616|12-C/T 6650617|39-T/G 6650695|29-G/A 6650768|33-C/T 6650776|41-A/G 6650824|6-C/G 6650856|61-G/C 6650931|6-C/T 6650932|50-A/G 6650935|64-T/C   
## 1 1 1 1 2 1 1 2 1 2 1   
## 6650950|61-A/C 6650971|13-G/A 6651076|54-T/C 6651094|7-C/T 6651112|44-A/C 6651140|51-A/G 6651141|28-C/T 6651166|8-G/A 6651232|36-T/A 6651234|42-A/T 6651248|33-A/T   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6651256|30-A/G 6651296|34-G/A 6651362|29-A/G 6651505|25-A/G 6651536|18-C/T 6651549|18-T/C 6651584|29-A/G 6651585|28-G/A 6651603|27-G/A 6651650|53-C/T 6651682|41-G/A   
## 2 1 1 2 1 1 1 2 2 2 1   
## 6651722|21-T/C 6651790|34-A/C 6651836|41-C/A 6651920|32-T/A 6651945|47-T/C 6651948|51-G/A 6651949|50-A/C 6651978|13-T/C 6651988|28-A/T 6651995|36-G/C 6651996|46-A/G   
## 1 1 1 1 1 1 2 1 1 1 1   
## 6652021|23-A/T 6652050|59-T/C 6652102|5-C/T 6652139|9-C/G 6652157|32-T/A 6652164|29-T/C 6652198|12-T/A 6652209|23-C/G 6652232|10-G/A 6652236|58-T/C 6652248|19-T/C   
## 1 2 1 1 1 2 2 1 1 1 1   
## 6652256|38-A/G 6652399|58-G/T 6652408|36-G/T 6652455|7-A/G 6652563|7-G/C 6652666|14-C/T 6652708|30-T/C 6652718|43-C/A 6652723|11-A/G 6652744|49-T/G 6652761|57-T/G   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6652809|41-A/G 6652820|37-G/T 6652865|19-C/G 6653005|35-T/C 6653010|64-G/C 6653038|53-G/C 6653130|47-A/T 6653175|37-A/G 6653237|34-C/T 6653376|49-A/C 6653396|18-A/G   
## 2 1 1 1 1 1 1 1 2 1 1   
## 6653462|51-G/A 6653499|18-A/G 6653523|14-A/C 6653530|62-T/C 6653604|19-T/A 6653643|33-G/C 6653655|16-T/C 6653725|23-C/A 6653838|44-C/T 6653994|51-G/A 6656884|31-A/G   
## 1 1 1 1 1 1 2 2 1 1 2   
## 6656889|19-A/G 6657085|18-T/G 6657130|23-G/T 6657217|6-G/T 6657267|27-G/T 6657331|17-A/G 6657391|26-A/G 6657478|16-A/C 6657485|17-C/T 6657548|20-A/G 6657600|33-G/A   
## 2 2 2 1 2 1 2 1 2 1 2   
## 6657637|34-A/C 6657667|22-A/G 6657873|49-G/A 6658002|34-T/C 6658172|30-C/A 6658300|7-T/A 6658375|19-C/G 6658441|13-C/T 6658569|13-G/A 6661094|36-A/G 6661297|9-T/G   
## 1 1 1 2 2 1 2 2 2 1 1   
## 6661311|33-T/C 6661392|20-A/G 6661396|55-T/C 6661401|35-G/A 6661459|27-G/A 6661496|33-C/G 6661598|62-A/G 6661609|59-A/C 6661636|18-T/A 6661653|9-G/A 6661756|25-G/A   
## 1 1 2 2 2 1 2 2 2 1 1   
## 6661788|59-G/T 6661804|5-T/A 6661860|33-C/T 6662701|6-A/G 6662705|5-C/G 6662826|20-C/T 6663036|30-T/G 6663052|30-A/G 6663927|13-G/A 6664053|24-C/T 6664315|17-A/G   
## 1 1 1 2 1 1 1 2 1 2 2   
## 6664393|35-G/A 100101004|14-G/C 6664748|30-C/A 6665122|15-A/T 6665280|39-G/A 6665349|39-T/A 100109477|21-T/C 6665749|9-T/C 6665804|12-G/A 6665805|15-G/A 6665809|11-A/G   
## 2 1 1 1 1 1 1 2 1 1 1   
## 6665975|52-G/A 6666169|13-T/A 6666355|23-A/G 100123948|55-T/C 100022390|44-G/A 100023236|15-G/A 100073694|7-G/A 100082381|22-C/A 100098535|7-C/G 100098787|33-A/G 100123797|15-G/T   
## 2 2 1 1 2 1 2 1 1 1 2   
## 6632181|18-G/A 6650384|58-A/G 6650392|28-C/A 6650405|15-T/C 6650425|36-A/T 6650440|25-T/C 6650441|46-C/T 6650503|7-C/T 6650511|35-A/T 6650582|52-A/C 6650601|22-C/T   
## 2 2 1 1 2 1 1 1 1 1 1   
## 6650694|13-A/C 6650707|5-A/G 6650750|63-G/A 6650751|7-T/G 6650881|41-T/C 6650887|8-T/G 6650895|17-A/G 6650942|29-A/G 6651068|27-G/A 6651106|54-A/T 6651126|7-G/A   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6651199|46-C/G 6651277|12-C/T 6651309|58-A/G 6651440|6-A/G 6651559|24-C/T 6651568|46-G/C 6651596|5-C/T 6651608|37-G/A 6651626|23-G/C 6651670|12-A/G 6651678|31-T/G   
## 1 1 1 1 1 1 1 1 1 1 2   
## 6651702|11-C/T 6651729|48-A/G 6651775|9-A/G 6651799|50-C/G 6651833|60-C/T 6651834|42-T/G 6651856|61-G/A 6651902|48-A/T 6651916|32-C/T 6651940|40-C/T 6651955|38-C/A   
## 1 2 1 1 2 1 1 1 1 1 2   
## 6652103|6-G/A 6652221|13-A/G 6652233|30-C/T 6652271|50-T/C 6652312|29-A/G 6652323|41-T/C 6652348|30-G/A 6652387|29-A/C 6652570|42-C/A 6652579|68-G/T 6652611|59-C/A   
## 1 1 1 2 1 1 1 1 2 1 1   
## 6652679|46-G/C 6652770|46-T/C 6652916|41-A/G 6652924|5-G/T 6653139|25-C/T 6653290|15-T/C 6653405|19-T/G 6653547|59-T/C 6653608|25-C/G 6653635|5-T/C 6653678|35-A/G   
## 1 1 1 1 1 1 1 2 1 1 1   
## 6653689|26-T/A 6653786|26-A/G 6653788|50-G/A 6653837|14-C/T 6653866|26-A/T 6653923|19-A/T 6653998|66-G/A 6654062|37-C/T 6654076|43-A/C 6656943|6-A/T 6656950|8-C/G   
## 2 1 2 2 1 2 1 2 1 1 1   
## 6657301|15-A/G 6657373|32-C/A 6657396|21-C/T 6657408|41-T/C 6657466|14-C/G 6657470|5-C/T 6657514|43-G/A 6657532|34-T/C 6657551|9-T/C 6657596|44-G/A 6657604|9-T/G   
## 1 2 2 2 2 2 1 2 2 2 1   
## 6657613|10-A/C 6657630|52-C/T 6657681|17-C/T 6657715|15-C/T 6657723|9-A/T 6657726|41-A/G 6657729|7-G/A 6657752|22-T/A 6657881|18-C/G 6658064|41-T/A 6658065|28-A/C   
## 2 1 2 2 2 1 2 2 1 1 1   
## 6658111|29-A/T 6658148|11-T/C 6658186|19-A/G 6658226|42-C/T 6658296|10-A/T 6658347|20-C/G 6658374|29-C/T 6658438|42-C/G 6658501|21-A/C 6658566|40-C/T 6661096|38-A/G   
## 1 1 1 2 2 2 1 2 2 2 1   
## 6661098|8-C/T 6661155|52-A/G 6661165|8-T/C 6661251|38-A/G 6661269|21-G/A 6661341|8-C/T 6661391|21-C/A 6661466|12-C/T 6661555|18-G/C 6661659|40-C/T 6661684|52-G/A   
## 1 2 2 2 2 2 1 2 1 1 1   
## 6661698|59-T/A 6661775|7-A/G 6661797|49-G/A 6662590|20-A/G 6662615|6-C/T 6662790|12-G/C 6662818|19-G/A 6662832|11-A/G 6662835|7-G/C 6662944|22-G/C 6662946|24-G/A   
## 2 1 1 2 1 2 2 1 2 2 1   
## 6662996|36-G/A 6663047|41-G/A 6663054|17-C/T 6663939|28-A/T 6663975|44-T/C 6663987|39-C/G 6664296|7-C/G 6664312|54-A/T 6664428|37-G/A 100082074|52-T/C 6664722|41-T/G   
## 2 2 2 1 1 1 1 1 2 2 1   
## 6665235|64-T/C 6665278|5-A/G 6665282|36-G/A 6665346|17-A/G 6665662|22-T/C 6665663|28-T/A 6665849|25-C/T 6665877|33-T/C 6665879|38-A/T 6666358|65-C/T 100016475|46-G/A   
## 1 1 2 2 2 2 2 2 2 1 1   
## 100016905|48-C/A 100018192|15-C/A 100018375|55-C/G 100021981|25-T/A 100045028|11-A/G 100065468|15-G/A 100065569|37-C/A 100073412|16-T/C 100073701|13-G/T 100074011|18-G/C 100082459|38-C/A   
## 2 1 2 1 2 1 1 2 2 2 2   
## 100086150|10-G/T 100086229|17-T/C 100086237|9-C/A 100091190|32-A/G 100091207|45-C/G 100091251|13-T/C 100096444|12-A/C 100098472|22-C/G 100103647|6-C/A 100107103|17-C/T 6650387|53-A/G   
## 2 1 1 1 1 2 2 2 2 1 2   
## 6650481|61-G/A 6650788|22-T/C 6651332|37-A/C 6651818|50-T/C 6651863|32-C/T 6652372|10-T/C 6652511|31-G/A 6652754|21-A/G 6652755|9-G/A 6653571|19-A/G 6653574|37-T/C   
## 1 1 1 1 1 2 1 1 1 1 2   
## 6653585|24-C/T 6657101|27-G/A 6657124|22-T/C 6657595|21-A/G 6657640|37-T/G 6657747|20-T/A 6657809|8-A/C 6657847|15-A/G 6657859|39-G/C 6657980|25-A/G 6658003|48-T/C   
## 1 2 2 2 1 2 2 1 2 2 1   
## 6658141|5-G/C 6658173|38-T/C 6658437|16-G/A 6658509|5-T/C 6658625|7-G/C 6661101|21-T/C 6661509|18-T/G 6661745|36-G/A 6661802|6-G/A 6661814|14-T/G 6662656|29-A/G   
## 1 2 1 1 1 2 1 1 1 1 1   
## 6662837|7-T/A 6662873|7-G/C 6662947|5-G/A 6663032|15-G/A 6664269|17-T/G 6664285|27-A/C 6664757|14-T/C 6664912|6-T/C 6665124|27-C/T 6665664|30-A/C 6665874|13-A/G   
## 1 1 2 2 2 1 2 2 2 2 2   
## 6665876|47-A/G 6666225|7-A/G 100065638|51-G/C 100065980|45-T/C 100073421|25-T/C 100073630|15-C/G 100073757|34-G/C 100073948|30-G/A 100074014|19-T/A 100074068|17-A/G 100082248|28-G/A   
## 2 1 1 1 1 1 1 2 2 2 1   
## 100086042|5-C/T 100093665|8-T/G 100098602|36-T/A 100098836|24-A/C 100102147|13-C/T 100121015|18-T/C 100066223|13-G/A 100106210|14-T/G 6665285|9-C/T 6661710|31-T/C 6653668|61-T/A   
## 2 2 2 2 2 2 1 2 2 1 1   
## 100024870|39-A/C 6663929|41-A/C 100019092|30-T/A 6661298|58-T/C 100016534|66-G/A 100023056|37-G/A 100082643|25-G/C 100064775|20-G/A 100023265|24-C/A 6651137|52-T/C 6652727|6-C/A   
## 2 1 1 2 1 2 2 1 1 1 1   
## 100021017|32-G/T 100073776|11-G/A 100015600|63-A/T 6665051|27-A/T 100019246|34-T/A 6651056|34-C/T 6661829|9-C/T 6665126|22-A/C 100016268|6-T/C 100020350|21-A/G 100023328|20-T/C   
## 2 1 1 2 1 2 1 2 2 2 2   
## 100066210|28-C/T 6661110|21-T/A 100018023|63-A/G 100020236|59-G/A 100021188|32-G/C 100021960|39-C/T 100023459|46-A/G 100017280|64-T/G 100018247|39-T/A 100021898|39-C/T 100022093|45-A/T   
## 1 2 1 2 1 2 2 2 2 2 2   
## 100023129|9-T/A 100023441|20-A/G 100065302|16-G/A 100066548|17-C/T 6650550|11-T/G 100016077|58-A/G 100018469|20-T/G 100019543|16-G/T 100020860|10-A/C 100022172|17-T/G 100045257|30-G/T   
## 2 2 1 1 1 2 1 1 1 1 2   
## 6650546|47-C/A 6653399|26-T/A 100015390|53-T/G 100017298|53-C/T 100017444|58-C/T 100017989|5-T/C 100018126|55-A/G 100018257|27-G/T 100018350|18-A/T 100020244|19-T/A 100021605|34-G/T   
## 1 1 2 2 1 1 1 1 2 1 2   
## 100023076|20-A/T 100023357|49-A/T 6653628|59-A/G 6661821|17-T/A 100015255|25-C/T 100015707|14-A/T 100015710|46-C/T 100016017|19-C/T 100017899|6-A/G 100019473|54-C/T 100020145|63-C/G   
## 1 1 1 2 1 2 2 2 2 2 2   
## 100021743|44-C/T 100022776|55-C/A 100023242|39-G/C 100082188|29-T/C 100015628|14-G/A 100020893|36-A/G 100021540|61-G/A 100021665|36-G/A 100022938|66-G/C 100023291|60-T/A 6661242|40-T/A   
## 1 1 2 1 1 1 1 2 1 1 1   
## 6661353|60-C/T 100016201|10-C/T 100016537|37-T/G 100016842|18-C/T 100016876|65-C/T 100016987|65-G/A 100017504|59-C/A 100019821|57-T/A 100020901|34-T/C 100021671|8-G/A 100021969|10-T/C   
## 1 2 1 2 1 1 2 1 1 2 2   
## 100022199|66-G/A 100022545|35-T/C 100022573|13-G/C 100022831|52-G/A 100066558|7-C/T 100016263|30-C/G 100016306|10-A/T 100017198|10-T/A 100017275|13-A/G 100017509|15-C/G 100018032|68-T/C   
## 1 1 1 2 1 1 1 1 1 1 2   
## 100018336|6-C/T 100018672|56-G/T 100019100|44-G/T 100019286|14-C/G 100019912|15-C/T 100020907|14-C/T 100021161|47-T/A 100021810|7-T/C 100023367|18-C/T 100064740|15-A/T 6653264|41-A/G   
## 1 1 1 1 1 2 1 1 1 1 1   
## 6663072|37-T/A 100016098|7-T/C 100016143|59-T/C 100016740|12-A/C 100016777|38-T/C 100018407|47-C/A 100018609|48-C/T 100019034|62-G/A 100019293|6-G/T 100019468|41-G/A 100019644|45-T/C   
## 2 1 1 1 1 1 1 1 1 1 2   
## 100019745|64-C/T 100021138|40-C/T 100022777|45-C/T 100066874|50-C/A 100091157|27-T/G 6652941|42-T/C 6653902|40-C/T 6664728|12-C/T 100015633|60-A/G 100016193|8-T/A 100017485|19-T/C   
## 2 1 1 1 1 2 2 2 1 1 1   
## 100018162|27-C/T 100019061|21-G/C 100019334|15-C/T 100019756|22-T/C 100020056|55-G/T 100020924|20-C/T 100022009|9-G/A 100022323|36-A/G 100022703|5-T/C 100023049|42-G/A 100023218|64-G/T   
## 1 1 1 1 2 1 1 1 1 1 2   
## 100023269|66-A/G 100024832|25-T/C 100044738|8-C/T 100065081|38-C/T 100065706|32-G/A 100096952|53-C/A 6651239|56-C/A 6651495|32-A/G 6652638|14-C/A 6653296|13-A/C 6661158|36-C/T   
## 2 1 2 1 2 1 1 1 1 1 2   
## 100015381|11-T/A 100015413|40-A/T 100015882|61-G/T 100017512|41-A/C 100018395|5-T/C 100019423|68-C/G 100019434|60-G/T 100019704|32-C/G 100019785|27-T/C 100021066|30-G/A 100021425|47-C/A   
## 1 1 2 1 2 2 1 1 2 1 1   
## 100021475|63-A/T 100021915|65-G/A 100022373|12-A/G 100022606|28-T/C 100022910|49-A/G 100025041|57-G/A 100044554|19-G/A 100064948|49-T/A 100065362|20-C/T 6650752|20-T/A 6652176|15-T/C   
## 1 2 1 1 1 1 1 1 1 1 1   
## 6653696|11-C/T 6662909|25-T/C 100015291|39-T/G 100016129|26-G/A 100017225|65-T/C 100017536|38-A/T 100017676|8-G/A 100019216|7-C/G 100019420|52-C/G 100019494|63-G/T 100020318|21-C/T   
## 1 1 1 1 1 1 1 1 1 2 1   
## 100020532|11-T/G 100020604|29-A/G 100020745|51-A/C 100021499|21-G/C 100021838|13-T/A 100021978|37-T/C 100022031|7-T/A 100022223|45-A/G 100023499|68-G/T 100023507|21-G/A 6634782|49-G/A   
## 1 1 2 1 1 1 1 1 2 1 2   
## 6650656|12-T/G 6652475|14-A/T 6661333|17-C/T 100015448|67-A/T 100015469|19-T/A 100015537|12-C/T 100015992|7-C/A 100016029|18-C/T 100016274|21-C/T 100016854|18-G/T 100017144|48-G/A   
## 1 2 1 2 1 1 1 1 1 1 2   
## 100017489|57-G/A 100017909|16-T/C 100018611|43-C/A 100018927|63-G/C 100019035|27-T/A 100019236|16-C/T 100020671|26-T/C 100021001|60-T/A 100021318|46-C/G 100021549|61-A/C 100021863|20-C/T   
## 1 2 2 1 1 2 2 2 1 1 2   
## 100023205|16-G/T 100044711|34-G/A 100064599|63-A/C 100065680|37-G/A 100118396|21-A/G 6651534|52-G/A 6651570|59-C/T 6652200|26-G/A 6652872|49-G/A 6654031|17-C/T 6661376|52-G/A   
## 1 2 1 1 2 1 1 1 1 2 2   
## 6662917|14-G/T 6666226|12-T/G 100015950|5-A/G 100016109|31-A/T 100016805|54-A/G 100016861|15-T/C 100017893|45-T/C 100018244|41-A/T 100018636|16-G/A 100018890|25-T/C 100018982|31-A/G   
## 1 1 1 1 1 2 1 1 1 1 1   
## 100019094|40-C/T 100019137|21-G/C 100019699|26-G/C 100020118|29-C/T 100020890|29-C/T 100021219|23-C/T 100021521|57-T/G 100022288|6-G/C 100022337|30-A/G 100022554|22-T/C 100023064|19-G/A   
## 1 1 1 1 2 1 1 1 1 1 2   
## 100045690|24-G/A 6650514|37-T/A 6651982|15-T/A 6653247|28-A/C 6653292|47-C/G 6653430|58-A/G 6653481|64-T/C 6653533|6-C/A 6653865|59-A/C 6661831|60-G/A 100015200|15-A/C   
## 2 1 2 1 1 1 1 1 1 1 1   
## 100015297|26-C/T 100015382|10-T/A 100017834|8-C/T 100020258|46-C/T 100021617|53-T/C 100021932|18-G/T 100022038|23-C/A 100022622|15-A/G 100022667|15-C/T 100022800|24-C/A 100022903|55-C/T   
## 2 1 1 1 1 1 2 1 1 1 1   
## 100023130|51-G/C 100023154|5-T/C 100023531|17-A/G 100045599|24-A/G 100065227|31-T/C 100065691|24-C/T 100066039|22-G/A 100066092|14-C/T 100074069|38-T/C 100106301|19-A/G 6650690|47-A/G   
## 1 1 1 1 1 1 1 2 1 1 2   
## 6651361|32-G/A 6652061|58-G/A 6652327|54-A/T 6653204|40-A/G 6653393|35-C/A 6653673|65-A/G 6653746|33-C/A 6661305|25-C/G 6664067|16-C/A 6664716|12-T/C 100015645|28-C/T   
## 2 1 1 1 1 1 1 1 1 1 1   
## 100016045|44-C/T 100016331|42-T/C 100017699|11-G/A 100018593|39-G/A 100018814|46-A/G 100019003|20-A/T 100019081|63-A/T 100019377|57-G/A 100019413|55-T/G 100019588|52-G/A 100021006|21-C/T   
## 1 1 2 1 2 1 1 1 2 1 1   
## 100021094|7-C/G 100022208|18-A/C 100022310|31-G/A 100022384|48-G/A 100022899|42-C/G 100108128|12-A/T 6650846|64-A/G 6650911|65-G/A 6651088|5-A/C 6651399|12-C/A 6652520|9-A/G   
## 1 1 2 2 1 2 1 1 1 1 2   
## 6653133|15-G/A 6653564|53-G/A 6653709|31-G/A 6653720|68-C/A 6653797|40-A/T 6653874|10-G/T 6653907|59-A/G 6653965|43-A/G 100065805|29-G/T 6661880|32-C/T 100015400|35-T/C   
## 1 1 1 1 1 1 2 1 2 2 2   
## 100016174|6-C/A 100016241|19-C/T 100016653|31-G/A 100017080|12-A/T 100017172|64-G/C 100017659|13-G/A 100017936|42-T/C 100018252|52-A/G 100018331|42-G/A 100019441|49-A/T 100020597|8-T/A   
## 1 1 2 2 1 1 2 2 1 2 1   
## 100020814|67-G/A 100022284|10-G/A 100022341|63-A/G 100023203|29-C/G 100023334|6-G/T 100023527|5-T/A 100082625|32-A/G 6631600|18-G/A 6634219|54-C/T 6650605|38-G/A 6650666|57-T/A   
## 1 1 1 1 1 1 1 2 2 2 2   
## 6650850|54-G/C 6651176|17-T/A 6651223|56-T/G 6651266|67-C/T 6651497|13-G/A 6651500|53-T/A 6652020|49-C/T 6652396|20-C/T 6652765|20-C/T 6653179|35-C/A 6653588|36-G/A   
## 1 1 2 1 2 1 2 1 2 2 1   
## 6653617|17-C/G 6653803|13-C/G 6653921|17-G/A 6654071|34-C/T 6658453|44-C/T 6662623|41-C/T 100015396|38-G/A 100015614|19-G/A 100015961|7-A/G 100016361|49-G/A 100016600|22-G/C   
## 1 1 1 1 2 1 1 1 1 1 1   
## 100017130|57-T/G 100017328|47-G/A 100018645|27-A/G 100018647|11-T/C 100019579|57-A/G 100019755|66-T/A 100020516|10-T/C 100021870|45-T/C 100022119|34-G/A 100022158|40-C/G 100022170|46-A/G   
## 1 1 2 1 2 1 2 1 2 1 1   
## 100022467|38-A/C 100022708|55-T/C 100023428|39-C/A 100064901|22-G/A 100066583|50-G/C 100082198|48-A/G 100082209|53-T/A 100114666|37-A/T 6650551|48-A/C 6650640|8-G/T 6651037|14-A/C   
## 1 2 1 1 1 2 2 1 1 1 1   
## 6651123|16-G/T 6651198|35-C/T 6651548|20-C/G 6652349|48-A/C 6652912|31-C/T 6652960|9-G/T 6653047|24-C/T 6653111|54-G/C 6653182|48-A/G 6653306|31-C/A 6653329|47-T/C   
## 1 2 2 1 1 1 1 1 1 2 1   
## 6653695|53-T/C 6657908|24-T/C 6658488|17-G/A 6661172|54-T/C 6661256|38-C/G 6665238|10-A/T 100016051|64-C/A 100016065|42-C/A 100016173|67-C/G 100016227|33-T/G 100016734|15-A/G   
## 2 2 1 1 2 1 1 1 1 1 1   
## 100017686|33-G/C 100017703|8-T/C 100017977|13-T/C 100018439|16-T/C 100020203|19-G/A 100021102|63-A/C 100021231|28-T/G 100021723|29-T/G 100022522|40-C/T 100022709|6-G/A 100045624|6-C/G   
## 1 1 1 1 2 1 1 2 1 1 1   
## 6650668|41-T/C 6650746|17-T/C 6650807|17-C/T 6650886|31-G/A 6650934|11-G/A 6651435|37-C/T 6651778|31-G/A 6651783|65-C/T 6652191|59-C/T 6652464|36-A/G 6652873|35-C/G   
## 1 1 1 1 2 1 1 1 2 1 1   
## 6653077|56-T/C 6653537|32-A/G 6653577|27-G/A 6653747|15-A/G 6661083|6-C/T 6661240|52-C/A 6661424|62-T/C 6661830|19-T/C 6665513|19-G/C 6661486|13-G/C 100015240|23-G/A   
## 1 2 1 1 1 2 1 1 1 1 2   
## 100016947|13-A/G 100018671|65-G/A 100019864|8-C/G 100019949|8-C/T 100020694|31-T/C 100022684|13-T/A 100022926|58-G/T 100023200|68-C/T 100044609|42-A/G 100065342|51-C/T 100066803|48-A/G   
## 1 1 1 1 1 2 1 1 1 1 1   
## 100085950|35-A/G 100108060|20-G/C 6630419|14-G/A 6650581|35-C/G 6650628|40-T/C 6650650|35-G/T 6650684|65-A/T 6650719|47-G/A 6650735|38-G/C 6650879|60-C/T 6651049|16-C/G   
## 1 1 2 1 1 1 1 1 2 1 1   
## 6651124|38-C/T 6651144|62-T/C 6651167|41-A/G 6651516|36-T/G 6651679|24-G/A 6651984|7-T/A 6652023|10-G/A 6652091|50-T/A 6652242|32-G/A 6652409|10-T/C 6653236|64-T/C   
## 1 1 1 2 1 1 1 2 1 2 1   
## 6653348|13-G/A 6653637|32-G/T 6653657|58-T/C 6653943|15-G/T 6653959|63-A/G 6654028|68-A/G 6654050|51-G/T 6654072|32-C/A 6657061|32-A/G 6661522|65-A/G 6665120|10-A/G   
## 1 1 1 1 2 1 1 1 1 1 1   
## 100120328|20-T/C 100120333|61-G/A 100065668|5-T/C 100015835|6-C/T 100016061|39-G/C 100016656|14-T/C 100017602|16-G/A 100019319|48-T/C 100019777|21-G/C 100021190|47-T/C 100022177|66-A/G   
## 1 2 1 1 2 1 1 2 1 2 1   
## 100023241|6-T/C 100044452|9-C/G 100065422|7-G/A 100066442|52-G/A 6650473|26-A/G 6650482|38-T/C 6650496|24-C/T 6650610|24-T/A 6650644|49-A/G 6650834|54-C/A 6650842|16-G/T   
## 1 1 1 2 2 1 1 1 1 1 1   
## 6651138|26-A/T 6651261|54-G/A 6651453|19-A/C 6651597|59-A/G 6651744|34-A/T 6651756|62-G/A 6651812|33-C/T 6651980|42-A/G 6652201|21-C/A 6652243|14-C/G 6652864|38-C/T   
## 1 1 1 1 1 2 1 1 1 1 1   
## 6653219|11-G/C 6653248|20-T/C 6653427|25-A/G 6653971|28-A/T 6657006|6-C/A 6657540|27-G/A 6661088|54-C/T 100082471|46-T/C 6661706|26-T/C 6664071|6-G/A 100016295|41-G/T   
## 1 1 1 1 1 1 1 2 1 1 1   
## 100018466|44-G/A 100020140|32-T/C 100020690|9-T/G 100020765|38-G/C 100021275|46-C/T 100045738|12-T/A 100082496|60-G/T 6650712|28-A/C 6650913|49-A/G 6650972|30-C/T 6651222|59-G/A   
## 2 2 1 1 1 1 1 1 1 1 2   
## 6651438|51-T/C 6651492|20-G/A 6651654|52-A/G 6651829|48-G/A 6651860|44-T/G 6651877|63-C/T 6651935|33-C/T 6651974|35-C/T 6651986|27-T/C 6652262|36-T/C 6652560|9-A/T   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6652688|16-G/A 6652875|8-C/G 6653021|18-A/G 6653263|25-G/C 6653294|9-G/A 6653410|59-G/C 6653536|55-G/A 6653603|22-T/C 6653802|50-G/C 6653830|13-C/T 6653963|35-C/T   
## 1 1 1 1 1 1 1 2 1 1 2   
## 6654043|16-A/G 6658028|40-G/C 6661349|14-C/A 6661568|63-A/T 6661747|28-T/C 6663960|60-T/C 6663980|14-A/G 100019622|48-T/A 100019802|12-C/T 100020020|13-G/A 100021576|15-T/C   
## 2 1 1 1 1 2 1 1 2 1 1   
## 100022394|27-C/T 100023389|57-T/G 100023502|39-T/A 100073839|28-C/G 6635439|23-T/C 6650563|22-C/T 6650688|61-A/G 6650747|16-A/C 6650772|42-C/A 6650861|34-T/A 6651030|62-A/T   
## 1 1 2 2 2 1 1 1 1 1 1   
## 6651225|58-T/C 6651322|19-G/A 6651329|44-C/A 6651331|12-T/A 6651353|65-C/A 6651374|45-A/G 6651589|18-T/A 6651687|45-A/G 6651748|42-G/T 6651933|62-A/G 6652449|21-T/C   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6652527|63-C/A 6652542|24-G/C 6652684|46-A/G 6652730|63-C/G 6652782|44-C/T 6652925|43-T/C 6653316|17-T/A 6653365|26-A/G 6653370|22-C/T 6653474|66-G/A 6653556|52-A/C   
## 1 1 1 1 2 2 1 1 2 1 1   
## 6653733|18-G/T 6653741|19-T/C 6653765|48-T/C 6653879|16-T/C 6654049|52-T/A 6657335|32-G/A 6658312|10-A/G 6661127|7-A/C 6661289|11-T/C 6661380|15-T/G 6661529|31-T/C   
## 1 1 1 1 1 1 1 1 1 2 1   
## 6661563|46-C/A 6661785|56-A/G 6661832|23-C/T 6663079|11-G/A 6665675|20-A/G 6666102|6-C/T 100121706|16-C/T 100015265|55-C/A 100015554|25-A/G 100017634|45-C/T 100018229|31-T/A   
## 1 1 2 1 2 1 1 1 1 1 1   
## 100018597|37-C/G 100018998|48-T/C 100019106|32-T/C 100093589|24-T/C 6632259|35-G/A 6632582|5-C/T 6650532|52-G/A 6650756|47-A/G 6650830|17-G/A 6650851|66-A/T 6650928|5-A/C   
## 1 2 1 1 2 1 1 1 2 1 1   
## 6650987|34-A/G 6651080|35-C/T 6651107|37-G/A 6651110|32-G/T 6651196|62-C/A 6651288|46-T/C 6651442|63-C/T 6651613|49-C/A 6651658|42-A/T 6651720|6-A/G 6651765|63-C/G   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6651802|34-G/T 6651873|50-T/C 6651874|53-T/A 6651906|20-T/A 6651943|26-G/A 6651957|58-G/A 6652104|41-C/G 6652143|61-T/G 6652149|28-A/G 6652158|57-C/T 6652181|32-G/A   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6652211|12-C/T 6652240|22-G/A 6652269|40-C/T 6652459|65-C/T 6652473|56-G/T 6652516|46-A/G 6652757|25-T/C 6652797|7-G/T 6652811|14-C/T 6652891|17-T/C 6652914|32-A/G   
## 1 1 1 2 1 2 2 1 1 1 1   
## 6652922|32-G/A 6653051|5-G/C 6653071|48-C/T 6653276|22-T/C 6653337|5-T/C 6653343|21-C/G 6653392|28-C/G 6653404|15-T/C 6653456|52-A/G 6653484|18-G/A 6653641|8-G/A   
## 1 1 1 1 1 1 1 1 2 1 1   
## 6653669|32-C/T 6653732|48-A/T 6653735|8-T/G 6653739|44-G/C 6653814|28-G/A 6653826|65-T/G 6653844|35-A/G 6653895|16-A/G 6653898|20-C/A 6653961|15-T/C 6654048|23-G/A   
## 1 1 1 1 1 1 1 1 1 2 1   
## 6657273|10-C/G 6657733|25-C/T 6657825|20-A/C 6658114|32-C/G 6658233|5-T/G 6658363|20-A/C 6661157|31-A/G 6661223|43-A/T 6661238|20-T/G 6661454|19-A/G 6661478|59-G/T   
## 1 1 2 1 1 1 1 1 1 1 1   
## 6661581|31-C/T 6661584|33-A/T 6661734|17-A/G 6662610|35-C/T 6663909|13-G/T 6664051|46-A/C 6665119|8-A/G 6666170|15-A/C 6666170|17-G/A 6666170|6-G/A 100018529|16-G/A   
## 1 1 1 1 1 1 1 1 1 1 2   
## 100019109|54-C/T 100020873|6-C/G 100020968|7-A/G 100021983|42-A/C 100022525|11-T/A 100065722|64-T/C 6650393|5-T/C 6650424|56-T/C 6650439|56-G/A 6650466|32-T/C 6650505|17-A/G   
## 1 1 1 2 1 2 2 1 1 1 2   
## 6650506|45-A/C 6650533|15-G/T 6650557|47-G/T 6650621|36-G/A 6650631|22-C/T 6650685|22-A/T 6650724|18-T/A 6650838|22-C/T 6650866|40-T/C 6650867|54-T/C 6650893|22-G/A   
## 1 1 1 1 1 1 1 1 2 1 1   
## 6650917|35-C/T 6650920|31-G/C 6651018|30-A/C 6651060|22-T/C 6651146|26-G/A 6651378|67-C/T 6651387|24-T/A 6651391|45-G/A 6651444|17-T/C 6651450|54-T/G 6651457|37-T/C   
## 1 1 1 1 1 1 1 2 1 1 2   
## 6651484|65-A/G 6651503|6-A/G 6651510|59-A/G 6651537|19-A/C 6651552|29-C/T 6651562|32-G/C 6651569|33-T/G 6651580|22-T/A 6651606|13-T/C 6651612|31-C/T 6651615|24-A/G   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6651705|42-A/G 6651737|5-C/T 6651892|35-T/C 6651930|26-G/C 6651938|17-A/C 6652055|48-A/G 6652132|43-T/C 6652144|17-G/A 6652212|22-A/G 6652231|38-C/A 6652386|55-C/G   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6652398|40-G/A 6652413|28-C/A 6652427|27-T/A 6652438|68-G/A 6652494|24-T/C 6652515|15-A/G 6652518|57-T/C 6652535|53-G/T 6652564|55-A/G 6652619|16-T/C 6652816|67-C/G   
## 1 1 1 1 1 2 1 1 1 1 1   
## 6652945|37-C/A 6653041|46-A/G 6653142|49-C/A 6653144|56-G/T 6653148|46-A/C 6653163|62-T/C 6653369|63-C/T 6653408|40-T/C 6653429|7-A/G 6653439|17-G/C 6653493|47-C/T   
## 1 1 2 1 1 1 1 1 1 2 1   
## 6653501|7-C/T 6653502|28-G/C 6653504|7-C/G 6653563|7-T/A 6653593|19-T/C 6653740|20-C/T 6653755|14-T/C 6653790|16-T/G 6653834|11-T/C 6653851|28-A/C 6653936|33-A/C   
## 1 1 1 2 1 1 1 1 2 1 1   
## 6653989|22-G/A 6654038|30-G/A 6654047|8-G/A 6654066|45-C/G 6657075|25-A/C 6657215|14-A/T 6657652|33-T/C 6658198|15-T/C 6658380|19-G/A 6658597|10-T/C 6661103|59-T/C   
## 1 1 1 1 2 1 1 1 1 2 2   
## 6661108|53-A/G 6661557|11-G/A 6661627|50-T/C 6661879|7-T/C 6662888|24-C/A 6662892|24-C/T 6664359|17-A/T 6664391|17-A/G 6664780|11-C/T 6665039|22-C/G 6666100|22-C/T   
## 2 2 1 2 1 1 1 1 2 1 1   
## 6666102|30-T/C 6654102|57-C/A 100016395|29-T/C 100020724|58-C/T 100022521|22-C/T 100022955|34-C/A 100045457|17-G/A 100073683|46-G/A 100093512|17-C/G 100102305|42-T/G 100121708|34-C/G   
## 1 1 2 2 1 1 2 2 1 1 1   
## 6650447|47-T/C 6650456|36-A/G 6650499|21-C/T 6650502|55-C/G 6650518|44-C/T 6650566|9-A/G 6650589|18-C/T 6650595|24-C/T 6650602|41-G/A 6650625|38-T/C 6650630|7-C/G   
## 2 1 1 1 2 2 1 2 2 1 1   
## 6650642|21-G/A 6650708|55-C/A 6650731|33-G/A 6650777|15-G/C 6650798|22-T/C 6650874|54-T/G 6650892|52-T/C 6650926|30-T/C 6650951|18-A/G 6650983|20-T/G 6651002|11-G/T   
## 1 1 1 1 1 1 1 1 1 1 2   
## 6651006|19-G/A 6651015|9-T/A 6651028|11-C/T 6651064|34-C/G 6651075|68-C/T 6651082|17-A/G 6651108|57-A/T 6651169|15-T/C 6651211|35-G/A 6651214|29-G/C 6651218|36-A/G   
## 1 1 1 1 1 1 1 1 1 1 2   
## 6651236|9-A/C 6651265|9-G/A 6651293|36-A/T 6651299|48-A/G 6651311|22-C/T 6651316|37-T/G 6651339|7-G/A 6651360|17-C/A 6651411|25-A/G 6651455|40-A/G 6651480|6-A/C   
## 1 1 1 1 2 1 1 2 1 2 1   
## 6651535|17-G/C 6651553|40-C/T 6651633|11-G/C 6651642|43-A/C 6651652|13-T/A 6651653|46-A/T 6651666|39-C/A 6651668|54-T/C 6651692|43-T/C 6651779|57-A/G 6651819|25-G/C   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6651894|54-A/G 6651913|20-A/G 6651928|6-C/T 6651950|10-C/T 6651962|57-C/T 6651979|59-G/T 6652004|68-A/T 6652041|41-T/C 6652076|24-T/G 6652082|47-A/G 6652128|6-G/A   
## 1 1 1 1 2 2 1 1 1 1 1   
## 6652178|42-C/T 6652228|29-C/T 6652229|59-T/C 6652252|11-C/T 6652279|53-A/T 6652302|43-G/A 6652328|42-T/G 6652402|15-A/G 6652405|52-T/C 6652430|41-A/T 6652442|59-A/G   
## 2 1 2 1 1 1 1 1 1 1 1   
## 6652444|19-A/C 6652476|42-G/A 6652478|11-G/T 6652495|5-G/A 6652517|8-A/G 6652531|35-T/C 6652633|57-C/A 6652685|43-G/A 6652711|52-C/T 6652775|11-G/A 6652812|20-T/C   
## 1 1 1 1 1 1 1 1 2 1 2   
## 6652825|12-T/C 6652846|44-A/G 6652876|5-G/A 6652899|47-T/G 6652923|25-T/A 6652938|38-G/A 6652954|34-G/A 6652977|48-A/C 6653056|35-C/G 6653113|5-G/A 6653221|12-A/T   
## 1 1 1 1 2 1 1 1 1 1 1   
## 6653285|45-G/C 6653299|45-T/C 6653300|45-T/C 6653301|16-C/T 6653302|10-C/T 6653314|19-C/A 6653350|22-C/T 6653402|19-G/T 6653488|18-C/T 6653495|56-A/T 6653519|51-A/G   
## 1 2 1 2 1 1 1 1 1 2 1   
## 6653534|60-C/T 6653576|42-C/A 6653592|23-G/A 6653671|64-C/A 6653680|17-G/A 6653685|30-G/A 6653711|10-T/A 6653718|49-A/C 6653737|54-G/A 6653753|52-T/C 6653780|36-C/G   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6653880|38-A/G 6653900|13-T/A 6653944|44-G/A 6653977|55-A/G 6653997|67-G/A 6654006|12-T/C 6654014|37-G/A 6654041|11-A/G 6654055|10-A/G 6654086|14-G/A 6654088|35-T/A   
## 1 1 1 1 1 1 1 1 1 2 1   
## 6656956|22-A/G 6657047|46-C/T 6657188|43-C/G 6657327|42-G/C 6657536|7-A/G 6657721|47-G/C 6657808|17-T/A 6657912|46-T/G 6658001|44-A/T 6658011|9-C/A 6658107|14-C/G   
## 1 1 1 2 2 1 1 1 2 1 2   
## 6658156|5-G/T 6658199|15-T/C 6658229|33-G/T 6658234|5-T/G 6658254|27-T/C 6658284|37-G/A 6658292|22-T/C 6658327|20-A/G 6658407|20-G/A 6658414|11-G/A 6658562|19-G/T   
## 1 1 2 1 1 1 1 1 1 1 1   
## 6658586|32-A/C 6658643|11-C/T 6658671|14-C/T 6661089|25-T/C 6661118|54-A/G 6661135|53-G/A 6661189|30-T/C 6661215|39-T/G 6661222|65-T/A 6661248|53-C/G 6661249|13-A/G   
## 1 1 2 1 1 1 1 1 1 1 1   
## 6661292|48-T/C 6661362|55-T/C 6661374|18-A/G 6661410|32-G/T 6661422|22-C/T 6661440|5-C/T 6661444|36-A/G 6661467|8-T/G 6661491|67-G/C 6661502|37-A/T 6661590|51-A/C   
## 1 1 2 1 2 1 1 1 1 1 1   
## 6661599|28-A/G 6661630|50-G/A 6661635|15-T/C 6661640|37-T/A 6661680|9-C/G 6661723|32-C/T 6661736|14-G/C 6661758|19-G/A 6661804|60-A/G 6661810|40-A/C 6661811|44-T/A   
## 2 1 1 1 1 1 1 1 1 2 1   
## 6661811|67-G/A 6661833|57-C/T 6661841|11-G/A 6661855|40-T/C 6661864|19-T/A 6661882|41-A/G 6661883|8-G/A 6661885|20-A/T 6662600|6-A/G 6662722|30-G/C 6662742|10-A/C   
## 1 1 1 1 1 2 1 1 1 1 1   
## 6662844|10-A/C 6662885|9-G/T 6662886|27-C/T 6662910|18-C/G 6662926|18-T/C 6663096|18-A/T 6663907|45-A/G 6663910|8-C/T 6663965|32-C/T 6663983|49-G/C 6663986|51-T/A   
## 2 1 1 1 1 1 2 1 1 1 1   
## 6664025|20-C/T 6664038|20-G/A 6664063|32-G/A 6664295|6-G/A 6664431|31-A/G 6664713|15-G/A 6665122|10-A/C 6665220|17-C/T 6665221|28-T/C 100109498|18-A/G 100109477|15-C/T   
## 1 1 1 2 2 1 1 1 1 1 1   
## 100109477|9-A/C 6665568|14-T/C 6665571|10-T/C 6665805|26-C/G 6666099|20-C/T 6666516|59-G/A 100124929|12-A/G 100016665|5-A/G 100016860|40-G/A 100019055|15-C/A 100019486|67-T/C   
## 1 1 2 1 1 1 1 1 1 1 1   
## 100020835|48-C/G 100044994|33-G/A 100064828|9-G/T 100064931|32-G/A 100065941|26-T/C 100073522|28-A/G 100081694|12-C/T 100093694|8-T/G 100114698|38-A/T 100121709|38-A/G 6631771|63-G/A   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6643511|8-T/C 6650389|25-A/G 6650408|50-C/T 6650436|33-G/A 6650531|50-G/A 6650573|57-G/A 6650637|15-T/C 6650654|52-A/C 6650710|46-T/G 6650720|22-A/T 6650779|16-C/T   
## 2 2 1 1 1 1 1 1 1 2 1   
## 6650822|27-G/A 6650832|27-T/C 6650901|27-G/A 6650902|39-G/T 6650937|10-A/G 6650960|65-A/G 6651019|62-A/G 6651142|65-T/C 6651204|9-G/A 6651227|47-C/T 6651280|20-T/A   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6651418|16-G/T 6651508|15-G/T 6651574|38-G/T 6651577|11-A/G 6651598|31-T/C 6651697|15-C/T 6651725|7-T/C 6651760|20-A/T 6651762|50-A/G 6651788|15-A/G 6651792|9-G/A   
## 2 1 1 2 1 1 2 1 1 1 1   
## 6651793|43-T/C 6651862|51-C/T 6651882|23-G/A 6651884|35-A/C 6651903|16-A/G 6651924|35-T/C 6651929|41-G/T 6651993|33-G/A 6651998|13-G/T 6652029|51-G/A 6652043|18-A/G   
## 1 1 1 1 2 1 1 1 1 1 1   
## 6652138|37-A/G 6652167|65-C/G 6652206|59-C/A 6652238|26-C/T 6652289|28-A/T 6652298|67-A/G 6652307|44-C/A 6652334|58-A/T 6652336|15-C/A 6652366|34-C/A 6652425|29-A/T   
## 1 1 1 1 1 1 1 1 2 1 1   
## 6652524|49-C/T 6652588|40-G/T 6652613|43-C/G 6652632|21-A/G 6652778|29-G/A 6652802|13-A/T 6652819|42-A/C 6652826|14-T/C 6653026|52-G/C 6653068|62-G/C 6653116|22-A/G   
## 1 1 1 1 1 1 1 1 2 1 1   
## 6653218|66-C/G 6653354|23-C/A 6653444|44-G/T 6653464|25-A/G 6653494|25-G/A 6653568|59-G/C 6653672|51-G/T 6653690|24-G/C 6653700|47-T/C 6653713|41-T/C 6653736|20-T/A   
## 1 2 1 1 1 1 1 1 1 1 1   
## 6653875|30-C/T 6653968|66-C/G 6653974|33-T/A 6653991|65-G/T 6657021|28-G/A 6657102|16-C/T 6657128|18-G/A 6657132|5-A/C 6657178|34-G/A 6657193|53-C/T 6657201|19-A/G   
## 1 1 1 1 2 1 1 2 2 2 1   
## 6657204|30-A/C 6657318|9-G/A 6657354|8-C/T 6657383|35-G/T 6657458|5-C/G 6657566|43-G/A 6657607|43-G/A 6657631|9-G/A 6657655|8-T/C 6657745|21-C/A 6657813|21-A/G   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6657950|26-T/C 6658016|18-C/G 6658025|28-G/A 6658074|26-C/A 6658086|13-T/C 6658116|19-T/G 6658140|8-T/C 6658176|39-C/T 6658256|13-G/C 6658270|50-G/T 6658309|15-G/T   
## 2 1 1 1 1 1 1 2 1 1 1   
## 6658382|35-G/A 6658386|9-G/T 6658396|48-A/T 6658416|19-T/C 6658448|12-A/G 6658539|20-A/G 6658593|6-T/C 6658605|5-T/A 6658616|40-G/T 6658646|18-C/A 6661133|7-C/G   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6661179|34-A/T 6661195|26-A/G 6661294|16-G/T 6661342|14-G/C 6661347|62-A/G 6661359|29-T/C 6661360|12-T/C 6661375|25-G/A 6661390|29-G/A 6661411|10-A/T 6661415|7-G/A   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6661429|43-A/G 6661461|24-A/G 6661525|21-A/G 6661561|6-A/G 6661611|46-A/C 6661622|45-G/T 100097038|21-G/A 6661741|18-C/T 6661767|9-T/C 6661768|5-T/C 6661780|15-A/T   
## 1 1 1 1 2 1 2 1 1 1 1   
## 6661784|18-A/G 6661801|15-C/T 6662572|23-G/A 6662577|20-C/A 6662598|13-T/G 6662619|18-C/T 6662621|6-C/T 6662686|27-C/T 6662729|33-C/T 6662743|22-C/T 6662903|44-T/C   
## 2 2 1 1 1 2 1 2 2 1 1   
## 6664062|57-T/C 6664077|54-G/T 6664087|35-A/T 6664282|11-G/A 6664352|17-T/G 6664715|34-G/A 6665049|6-C/T 6665121|17-A/G 6665508|35-A/G 6665515|61-A/G 6665540|8-G/A   
## 2 1 1 2 1 1 1 1 1 2 2   
## 6665849|33-C/T 6666095|7-A/G 6666174|7-C/T 6666520|31-G/A 100015941|21-T/C 100016251|35-G/A 100016732|29-G/A 100045346|24-C/T 100045582|33-G/A 100045632|7-G/A 100064767|54-T/C   
## 1 1 1 1 1 1 1 2 1 2 1   
## 100064928|53-G/A 100065927|39-C/T 100074119|31-T/C 100082416|45-C/A 100085968|36-G/A 100091287|38-A/T 100093420|8-G/A 100104859|48-T/C 100121707|24-C/G 6650478|7-C/T 6650577|59-A/G   
## 1 1 1 1 2 1 1 1 1 1 1   
## 6650765|26-G/A 6651007|49-A/G 6651119|61-A/G 6651133|33-C/T 6651237|16-C/T 6651693|21-C/T 6651704|49-G/T 6651952|32-C/T 6652155|42-G/C 6652275|21-C/T 6652283|16-C/T   
## 1 1 2 1 1 1 1 1 1 1 1   
## 6652292|40-G/A 6652303|27-C/T 6652553|13-A/G 6652626|33-A/G 6652630|7-G/C 6652656|7-T/C 6652758|10-G/A 6653200|23-C/A 6653877|30-A/G 6653984|20-G/T 6656875|8-A/T   
## 1 1 1 1 1 1 1 2 1 2 1   
## 6656924|30-G/C 6656996|5-A/T 6657117|41-C/T 6657154|6-G/A 6657156|29-A/C 6657483|18-T/G 6657561|6-C/T 6657735|31-T/A 6657741|7-G/A 6657814|9-A/G 6657850|12-C/G   
## 1 1 1 2 1 1 1 1 2 2 1   
## 6657942|13-C/G 6657997|45-C/T 6658062|30-T/G 6658550|29-A/G 6658582|12-C/G 6658632|5-T/C 6661273|54-T/A 6661308|52-T/C 6661408|14-C/T 6661538|9-G/A 6661791|66-G/C   
## 1 1 1 1 1 1 1 2 1 1 1   
## 6661818|22-G/A 6662638|5-A/G 6662824|38-C/T 6662887|8-G/C 6663037|41-C/G 6664882|7-A/C 6665050|32-A/T 6665295|5-T/C 100019888|47-T/C 100045453|46-G/A 100045704|9-A/G   
## 1 1 2 1 1 1 1 1 1 1 1   
## 100064586|17-G/C 100066059|7-C/T 100074054|47-T/A 100082120|8-T/C 100086057|9-A/G 100086096|24-G/T 100093333|41-G/C 100098548|28-A/G 100104693|28-T/A 100104890|20-C/A 100106918|8-T/C   
## 1 1 2 1 2 2 1 1 1 1 1   
## 100086278|15-A/T 100098561|7-T/A 100112393|13-T/C 6665409|19-C/A 100106209|11-T/A 6652014|36-G/A 100016895|29-G/A 6661843|44-G/A 6652389|64-T/C 6661649|50-A/C 6657666|21-A/T   
## 1 1 2 1 2 1 1 1 1 1 2   
## 6661268|63-T/G 100023082|28-G/T 100017188|42-C/G 6661288|45-T/C 100021319|48-T/G 100045470|27-C/T 6661435|57-G/T 100065514|5-T/C 6630387|13-C/T 100065726|10-C/T 6653782|5-C/T   
## 1 1 2 1 1 1 1 1 1 2 2   
## 100021899|36-A/T 100066454|16-G/T 100065272|30-T/C 100066129|22-G/A 6653374|61-T/C 6664733|54-T/A 100022349|67-T/A 100015942|46-A/C 100016792|52-G/C 100018206|33-G/A 100064825|31-G/T   
## 1 1 2 2 1 2 1 1 2 1 1   
## 100066202|30-T/C 100073401|49-C/A 6633382|47-T/C 100021640|61-G/C 100022856|29-A/C 100023978|37-A/T 6652591|64-T/C 6661464|50-T/A 100015796|50-T/A 100016769|29-T/C 100019373|29-G/A   
## 1 1 2 1 1 2 2 1 1 1 1   
## 100023055|35-A/T 100097014|5-T/G 6661225|60-T/C 6661548|33-A/T 100017088|61-C/T 100023509|31-T/C 100015492|43-G/A 100018948|22-T/C 100020108|6-G/A 100020234|29-G/C 100021104|60-G/C   
## 1 2 1 1 1 1 1 1 1 2 2   
## 100022438|10-G/T 100065777|27-G/T 6634350|32-G/T 100015248|33-A/G 100016465|17-G/A 100016470|38-G/A 100017055|22-C/A 100020326|38-A/G 100020580|5-T/G 100020916|54-A/T 100022162|26-G/C   
## 2 1 2 1 1 2 1 1 1 1 1   
## 100022968|12-G/A 100023214|50-T/C 100023558|48-A/G 100065527|10-A/G 100108046|10-C/G 6652805|19-C/T 6653649|51-C/A 100016806|34-T/C 100016973|34-G/A 100017185|9-C/T 100019652|10-T/C   
## 1 1 1 1 1 1 1 1 1 2 1   
## 100020977|12-T/C 100021791|20-G/A 100064895|33-A/T 100064988|25-T/C 6653972|28-A/G 6658602|21-G/C 100015510|28-A/T 100016175|6-T/C 100016191|14-G/A 100018397|31-G/T 100019542|48-A/C   
## 2 2 1 2 2 1 1 1 1 1 1   
## 100020295|21-C/T 100020374|38-T/C 100021678|59-A/G 100066638|43-T/G 6653330|11-G/A 100015953|68-T/C 100016139|30-C/T 100016326|61-C/T 100016487|19-G/T 100016577|32-A/G 100016760|26-T/A   
## 2 1 1 2 1 1 1 2 1 2 1   
## 100016954|51-G/A 100017145|65-A/G 100017289|41-G/C 100017927|57-A/G 100019119|41-A/C 100019129|28-A/G 100020392|13-C/T 100021327|23-G/A 100022094|8-A/T 100023476|68-C/T 100065094|17-G/A   
## 1 2 1 2 2 2 1 1 1 2 2   
## 100082310|17-G/A 100091292|53-C/T 6633859|61-C/G 6651602|9-A/G 6653320|67-A/G 100015805|62-G/A 100016005|36-T/C 100017432|35-A/G 100019685|30-C/T 100020281|34-T/C 100020816|17-G/A   
## 1 1 1 1 2 1 2 1 1 2 1   
## 100020920|57-A/G 100021124|31-G/T 100021513|63-A/G 100021836|10-G/A 100022515|43-C/T 100023216|57-G/T 100023496|7-C/T 100023681|60-G/A 100065088|33-A/T 100065666|45-T/C 100066471|53-C/T   
## 1 1 1 1 1 1 1 1 1 2 1   
## 6652033|13-A/C 6661430|6-G/T 6661570|26-C/T 6661730|63-G/C 100016186|12-C/A 100016774|44-T/A 100017111|47-A/G 100017208|21-G/A 100017523|52-T/C 100017874|53-A/G 100018144|64-A/G   
## 1 1 1 1 1 1 1 1 2 2 2   
## 100018225|53-A/G 100018942|41-G/T 100019677|5-A/G 100022269|27-A/T 100066082|15-C/A 100066253|43-C/A 100066444|14-G/A 100114672|22-C/T 6651282|60-A/T 6651428|21-T/C 6652874|33-G/A   
## 1 1 1 2 1 1 1 1 1 1 1   
## 100015264|22-A/T 100015814|11-C/G 100015850|40-T/C 100016120|45-G/A 100017115|64-C/T 100017958|17-G/A 100018308|19-A/G 100018683|52-C/T 100019218|10-T/C 100019222|23-G/C 100020050|41-T/C   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100020331|13-C/T 100020335|6-A/C 100021226|41-T/G 100021502|29-G/A 100021862|6-G/A 100021994|17-A/G 100022357|61-G/A 100022781|47-C/T 100023182|23-A/G 100023311|52-A/T 100023534|68-C/G   
## 1 1 1 1 1 1 1 2 2 1 1   
## 6653500|12-A/G 6661123|54-G/C 6665401|24-G/T 100015499|31-G/A 100015907|12-G/C 100016631|34-T/C 100019009|45-G/A 100019123|42-G/A 100019424|28-A/G 100019445|67-A/C 100019654|17-C/T   
## 1 1 2 1 1 1 1 1 1 1 1   
## 100020359|57-A/G 100020876|63-C/T 100022261|20-C/T 100022625|36-A/G 100023251|49-T/A 100090852|5-C/T 6653799|6-G/A 6661647|17-A/C 100015702|42-C/T 100015896|29-T/C 100016097|8-A/G   
## 2 2 1 1 1 2 1 1 2 1 1   
## 100016416|52-T/A 100016914|9-T/G 100017736|15-G/C 100018093|40-G/C 100018383|12-A/G 100018805|31-A/G 100018914|23-G/A 100019000|63-T/G 100019412|18-C/T 100019519|62-G/C 100019671|36-A/G   
## 1 2 1 1 1 2 1 1 1 1 2   
## 100019895|42-T/C 100020000|31-A/G 100020210|64-C/T 100021670|11-G/A 100021761|67-C/T 100022043|14-T/A 100022106|27-G/A 100022213|48-C/T 100022452|60-C/T 100022997|31-G/A 100065791|46-T/C   
## 1 2 1 1 1 1 1 2 1 1 1   
## 100066265|30-T/C 100066487|11-G/A 100101063|5-T/C 6634524|57-T/A 6652255|33-A/G 6661618|12-C/T 100015912|66-G/T 100015914|56-A/G 100016606|50-T/C 100016946|25-C/A 100017520|47-T/G   
## 2 1 1 1 1 1 1 2 2 1 1   
## 100018722|5-C/A 100019526|9-G/A 100019891|44-C/T 100020909|55-A/T 100020985|50-A/G 100021139|33-G/C 100021214|56-G/A 100021255|31-C/T 100021313|59-A/C 100022420|43-T/C 100022458|29-G/T   
## 1 1 1 1 1 1 1 2 1 1 1   
## 100022624|40-G/C 100022691|40-C/T 100023114|8-T/A 100023164|37-T/C 100023165|10-C/T 100023475|55-A/G 100024879|34-A/G 6650963|31-A/G 6650995|35-T/C 100015203|28-T/C 100015415|9-G/T   
## 1 1 2 1 1 1 2 1 1 1 1   
## 100015496|59-G/T 100015847|60-G/C 100015873|28-A/C 100015977|34-A/G 100016012|21-A/C 100016160|65-G/A 100016617|11-C/G 100016919|15-T/A 100016933|17-A/C 100017138|9-G/C 100017592|13-G/T   
## 1 1 1 1 1 2 1 1 2 2 1   
## 100017929|18-A/C 100018201|42-T/G 100018285|15-G/A 100018596|39-G/A 100018944|19-C/A 100019340|48-A/G 100019515|10-G/A 100019761|17-G/A 100019817|32-A/G 100020455|16-G/A 100020993|47-T/C   
## 2 1 1 1 1 1 1 1 2 1 1   
## 100022157|60-A/G 100023102|7-C/T 100045024|30-A/C 100065312|53-G/T 100066063|67-C/T 100066423|46-G/A 6634305|33-C/G 6651275|16-A/C 6652010|36-G/A 6661116|34-A/C 6664719|65-C/G   
## 2 1 1 1 2 1 1 1 1 1 1   
## 100015734|66-G/C 100015877|41-T/C 100016028|28-G/T 100016794|51-C/G 100016930|62-C/T 100016976|17-C/G 100017073|58-C/A 100017352|5-T/A 100017471|13-G/C 100017594|43-T/C 100017596|13-T/C   
## 1 1 1 1 2 1 1 1 1 1 1   
## 100018057|54-A/T 100018384|20-C/A 100018436|8-C/T 100018459|29-C/T 100018601|57-C/A 100018886|5-G/C 100019401|38-C/A 100019538|40-A/G 100019682|13-G/C 100019773|68-G/T 100019884|7-A/G   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100020084|63-C/A 100020358|5-G/C 100020410|17-G/T 100020846|22-A/G 100021982|22-G/C 100022352|35-G/C 100023106|5-T/A 100023435|47-T/A 100023548|13-A/T 100064672|55-C/T 100091227|51-T/A   
## 1 1 1 1 1 1 2 1 1 1 1   
## 100121014|17-C/T 6653240|15-A/T 100015605|26-A/G 100015623|29-T/A 100015712|9-A/T 100015915|16-G/C 100016293|25-T/A 100016319|36-T/C 100016723|21-C/T 100017173|15-T/A 100017697|22-G/A   
## 2 1 1 1 1 1 1 2 1 1 2   
## 100018492|22-T/C 100018548|16-C/T 100018796|68-C/T 100018865|11-C/A 100018936|13-C/T 100019019|18-A/G 100019086|21-G/A 100019131|12-T/C 100019765|29-C/T 100019951|22-C/T 100020346|50-T/C   
## 2 1 2 1 1 1 1 1 1 2 1   
## 100021253|53-T/C 100021441|53-T/C 100021634|50-A/C 100021664|5-T/C 100021900|25-G/C 100021918|16-G/C 100021944|59-G/C 100022064|57-C/T 100022439|9-G/A 100022958|60-G/A 100023335|10-T/C   
## 1 2 1 2 1 1 2 1 2 2 1   
## 100066167|17-A/C 6652225|65-T/C 6653132|37-C/T 6653692|35-T/A 6661742|53-G/T 6663972|39-G/A 6664076|30-T/C 100015254|42-A/G 100015421|66-C/T 100017443|50-T/A 100018227|9-A/G   
## 1 2 1 1 1 1 1 2 1 1 1   
## 100018684|33-T/C 100019036|18-A/C 100019346|5-C/T 100019642|57-C/T 100020216|59-T/G 100020462|12-G/T 100020825|41-T/A 100021447|5-C/T 100021487|10-A/G 100022350|27-C/T 100022637|44-C/T   
## 2 1 1 2 1 1 1 1 1 1 1   
## 100022974|38-G/A 100023108|17-G/A 100023245|57-A/T 100023390|19-G/A 100023533|34-T/C 100064760|51-A/T 100064984|7-A/T 6635254|28-C/T 6650882|51-G/T 6651794|65-C/A 6652456|5-G/C   
## 1 1 1 1 2 1 1 1 2 1 1   
## 6652956|28-T/C 6653074|11-G/T 6653246|55-C/T 6653257|11-T/C 6653558|37-T/C 6653841|24-C/G 6661717|50-A/G 100015306|34-G/T 100017026|18-T/C 100017183|63-A/C 100017740|39-T/C   
## 1 2 1 1 1 2 1 1 1 1 1   
## 100018186|14-G/A 100018502|54-A/C 100019407|9-A/G 100019597|22-G/T 100019799|11-C/T 100020064|5-A/G 100020467|61-C/G 100021342|19-T/G 100021726|23-G/T 100021853|38-A/G 100022073|47-G/A   
## 1 1 1 1 2 1 1 1 1 2 1   
## 100022174|61-T/C 100022237|64-T/G 100022450|28-C/T 100023247|11-G/A 100024830|48-A/T 100065475|5-A/C 100065743|19-C/T 6651542|50-G/C 6652006|5-C/A 6652136|34-G/A 6652490|28-C/A   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6653164|33-G/T 6661138|57-G/A 6661286|13-C/T 100015294|55-T/C 100015312|26-G/C 100015717|58-T/C 100016035|58-C/T 100017166|55-C/G 100017336|19-C/T 100017436|6-T/A 100018333|8-T/C   
## 1 2 1 1 1 1 1 2 2 1 1   
## 100018623|26-G/A 100018949|25-G/A 100019179|31-T/A 100019378|46-T/C 100019715|11-C/T 100020007|20-C/A 100020186|42-A/T 100020325|12-G/A 100020984|22-A/T 100021063|19-C/T 100021116|47-G/C   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100021276|48-T/C 100021323|21-A/G 100023352|36-C/T 100023524|20-T/A 100064607|25-T/A 100064666|61-G/A 100066449|6-A/G 100104023|51-G/T 6651556|12-T/C 6651732|66-T/C 6652161|13-A/G   
## 1 1 1 1 2 1 1 1 1 2 1   
## 6653042|9-A/T 6661220|17-G/T 100015287|46-T/C 100015379|18-A/G 100015449|18-T/C 100016230|18-C/G 100016245|55-T/C 100016437|62-T/C 100017249|15-G/A 100018724|8-T/C 100018729|20-A/C   
## 1 1 1 1 1 1 1 1 2 1 1   
## 100018771|32-C/T 100019308|38-T/C 100019625|33-C/T 100019716|25-C/T 100020654|61-G/A 100021098|19-A/T 100021170|5-G/C 100021240|55-G/C 100021330|41-C/T 100021985|6-G/C 100022470|47-C/T   
## 1 1 2 1 1 1 1 1 1 1 1   
## 100022786|9-C/T 100022992|63-G/C 100023087|65-T/C 100023089|12-A/T 100065113|20-C/T 100065660|34-T/C 100082081|14-T/C 6650676|61-A/G 6650683|35-G/A 6650847|62-G/T 6651376|46-G/A   
## 2 1 1 1 2 1 1 2 1 1 1   
## 6651698|17-A/G 6652341|11-G/A 6652418|6-T/A 6652657|13-T/C 6653549|37-G/A 6653926|47-C/T 6661137|45-A/G 6661795|29-A/G 6664067|38-C/T 100015300|34-C/G 100015553|64-G/T   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100015662|64-G/A 100015747|67-T/C 100016172|45-C/A 100016321|25-T/C 100016379|15-C/T 100016524|6-T/G 100016678|13-G/A 100017389|39-C/A 100017447|10-T/G 100018638|48-T/C 100019669|13-T/C   
## 1 1 1 2 2 1 1 1 1 2 1   
## 100021395|62-G/A 100021505|40-T/C 100021653|13-T/G 100021672|31-T/C 100022109|34-G/A 100022563|58-C/T 100022828|22-T/C 100023017|29-A/T 100066440|62-C/G 100066652|41-G/A 100096906|18-C/T   
## 1 1 1 1 1 2 1 1 1 2 1   
## 6630114|53-A/C 6650736|10-G/T 6651252|16-C/T 6653034|28-A/G 6653152|22-C/A 6653197|10-T/C 6653543|62-T/A 6653729|12-T/C 6658435|49-C/A 6661280|18-T/C 6661782|19-A/G   
## 1 1 1 1 1 1 1 1 1 2 1   
## 100015470|41-C/T 100016237|28-C/A 100016452|17-G/A 100016620|23-T/C 100016680|26-G/A 100016867|47-C/T 100016970|8-C/T 100018066|41-A/G 100018458|45-C/T 100018598|40-C/T 100019260|10-C/G   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100019313|6-T/C 100020459|17-G/C 100022183|15-A/C 100022219|59-T/A 100022324|20-A/T 100022476|18-T/C 100022820|44-T/C 100065830|50-G/A 100073534|35-A/T 100108129|53-C/A 6631518|25-C/G   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6650419|25-C/G 6650596|64-G/T 6650922|18-T/C 6650997|7-A/G 6651758|26-G/A 6652094|60-T/C 6652276|10-G/A 6652446|14-G/A 6652850|15-T/C 6652911|22-A/G 6653387|31-C/A   
## 1 1 1 1 1 2 1 1 1 1 1   
## 6653442|7-A/G 6653457|43-C/T 6653666|33-A/G 6653913|54-A/G 6661714|10-A/T 6661819|18-T/C 6665305|19-G/A 100015271|40-A/G 100015651|23-C/T 100016940|6-T/G 100017024|68-G/A   
## 2 1 1 1 1 1 2 1 1 1 1   
## 100018261|61-T/C 100018474|24-G/A 100018954|18-A/G 100019606|34-G/A 100019837|9-G/A 100020506|37-T/A 100020651|11-C/G 100021368|14-C/T 100021399|20-A/C 100021433|22-A/C 100021823|21-T/G   
## 1 1 1 1 1 1 1 2 1 1 1   
## 100022483|30-T/A 100022774|66-T/G 100023022|43-C/T 100023206|43-A/G 100023292|16-A/G 100023396|25-C/T 100024289|11-T/C 100045482|25-C/T 100065022|34-A/G 100065562|43-G/A 100065795|26-G/A   
## 1 1 1 1 1 1 1 1 1 2 1   
## 100066292|25-T/C 100073974|41-A/C 100082647|16-C/A 6650814|43-G/C 6650908|37-A/C 6651113|11-C/G 6651346|28-A/T 6651709|24-A/G 6652049|29-T/C 6652500|45-G/T 6652777|22-A/G   
## 1 1 1 1 1 1 1 1 2 1 1   
## 6653333|13-T/C 6653390|14-T/G 6653414|31-T/C 6653728|20-G/T 6654032|23-T/G 6654037|57-A/G 6657904|10-G/C 6661607|55-C/A 6661700|18-G/A 6662767|16-T/C 6664074|40-T/G   
## 1 1 1 2 1 1 1 1 1 1 1   
## 6664074|44-G/C 6664735|26-T/G 6665238|34-T/C 100124938|57-G/A 100015346|10-T/A 100016456|52-G/C 100016501|31-A/T 100017004|22-C/T 100017283|39-T/G 100017322|41-G/A 100017407|26-G/T   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100017421|12-A/G 100018243|9-T/C 100018879|32-C/A 100019658|67-A/G 100020347|21-G/C 100021567|15-A/G 100021727|64-T/A 100023434|25-T/C 100066346|64-T/C 100066369|51-A/G 100066626|37-G/T   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6631525|11-C/T 6650677|49-C/T 6650829|66-C/T 6650865|22-G/T 6651274|64-A/G 6651327|26-G/A 6651363|38-T/A 6651684|66-A/G 6652046|31-A/G 6652267|48-T/C 6652284|17-T/C   
## 1 2 1 1 1 1 1 1 1 1 1   
## 6652529|31-T/C 6652900|9-A/G 6653610|43-G/T 6653665|46-C/T 6653751|12-A/T 6653876|40-A/G 6654005|53-G/A 6654018|46-G/A 6661150|29-C/G 6661536|5-G/A 6664750|33-C/G   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100103994|12-C/T 100103994|20-G/A 100104021|9-A/G 100015729|18-T/G 100015952|21-T/A 100016302|16-G/A 100016507|10-G/T 100016962|46-C/T 100017543|65-T/C 100018176|18-T/A 100018259|44-T/C   
## 1 1 1 1 2 1 1 2 1 1 1   
## 100019881|23-C/A 100019923|11-A/T 100020081|6-T/A 100020349|28-G/T 100022424|20-G/A 100023400|43-G/T 100044682|9-A/G 100044750|30-A/G 100065250|9-G/T 100065326|31-T/A 100065589|31-A/G   
## 2 1 1 1 2 1 1 1 1 1 1   
## 100066526|17-G/A 100091166|12-G/A 100091166|42-A/G 6650613|48-C/T 6650687|41-T/G 6650796|6-C/T 6650803|47-G/C 6651101|36-C/G 6651528|20-A/T 6651771|12-T/C 6651853|15-T/A   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6652025|35-C/T 6652815|7-T/G 6652936|53-A/C 6653177|8-T/G 6653241|40-G/T 6653293|49-G/A 6653307|12-A/G 6653389|28-A/G 6653538|48-T/C 6653579|57-T/A 6653832|7-T/C   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6661683|57-A/G 6661685|63-G/A 6661816|48-A/G 6661824|42-G/C 6661850|36-A/T 6661890|47-A/G 6665337|42-A/G 100015757|13-C/T 100016204|33-T/C 100017468|57-G/T 100017967|62-C/T   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100018112|46-A/C 100018165|13-C/T 100018718|21-G/A 100019849|5-G/A 100019859|8-G/A 100022136|24-T/C 100022312|53-T/C 100045521|11-T/G 100065432|12-T/G 100065536|20-G/A 100066606|52-G/T   
## 2 1 1 1 1 2 1 1 1 1 1   
## 100082316|6-G/A 100082368|14-T/G 100097022|6-T/C 100108129|36-G/A 6631225|7-T/C 6631997|14-C/T 6650612|10-C/T 6650648|12-C/G 6651035|6-G/A 6651242|13-G/A 6651289|37-A/G   
## 1 1 2 1 1 1 1 1 1 1 1   
## 6651290|54-T/A 6651373|58-C/T 6651393|29-G/A 6651401|31-A/G 6651427|13-G/A 6651437|43-G/C 6651445|36-G/T 6651476|13-C/T 6651646|25-A/G 6651749|48-G/A 6651841|8-T/C   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6652088|32-C/T 6652192|52-C/A 6652260|63-T/C 6652326|50-G/A 6652369|31-T/C 6652422|33-T/C 6652547|9-G/T 6652893|32-T/A 6652909|24-T/G 6652955|18-G/C 6653017|55-G/A   
## 1 1 1 1 1 2 1 1 1 1 2   
## 6653103|52-T/G 6653677|36-T/C 6653708|16-C/G 6653903|37-A/G 6653934|25-C/T 6654040|14-T/C 6654091|9-T/C 6657832|39-T/C 6661183|41-T/C 6661274|44-G/C 6661675|22-T/C   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6663998|37-C/T 6664011|37-G/C 100016463|53-T/C 100016812|38-G/A 100017567|49-A/C 100017961|50-G/T 100018143|16-G/A 100019099|54-T/G 100019383|33-G/T 100019940|39-C/T 100020427|36-G/A   
## 1 1 1 2 1 1 2 1 2 1 1   
## 100020660|8-T/A 100020677|22-A/G 100021361|48-T/C 100021511|43-C/T 100021828|33-C/A 100022057|11-A/G 100022783|26-C/T 100064616|40-A/G 100065171|45-C/G 100065966|15-C/G 100082527|51-C/T   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100082585|40-G/A 100106949|10-G/A 100117044|51-G/C 6650418|9-G/T 6650423|29-A/G 6650818|67-C/T 6651153|49-G/T 6651180|65-A/T 6651287|48-A/C 6651447|19-T/C 6651655|40-A/G   
## 1 2 1 1 1 1 1 1 1 1 1   
## 6651717|7-T/C 6651971|61-A/G 6651981|50-T/G 6652195|35-T/C 6652270|30-C/T 6652411|8-G/A 6652419|17-C/T 6652451|65-G/A 6652920|22-G/A 6653067|56-T/C 6653377|17-C/T   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6653583|28-T/C 6653636|14-A/G 6653697|13-T/C 6653731|66-C/T 6653767|20-G/C 6653770|20-C/G 6653784|35-T/C 6653810|62-C/A 6653854|42-T/C 6653892|54-G/A 6653910|50-T/C   
## 2 1 1 1 1 1 1 1 1 1 1   
## 6654022|30-A/G 6661470|52-C/A 100066269|13-T/C 6662979|27-T/C 6664013|56-T/C 6664771|32-C/T 6665036|59-T/C 100015387|20-A/C 100016289|59-C/A 100017196|51-G/T 100017527|6-T/A   
## 1 1 2 1 1 1 1 1 1 1 1   
## 100017670|46-C/A 100018265|14-C/T 100018491|67-A/C 100019232|26-T/C 100019318|16-T/A 100019703|50-G/A 100019708|6-A/G 100019897|65-G/A 100020477|33-C/T 100022633|31-A/G 100023423|28-C/T   
## 1 1 1 1 1 2 1 1 1 1 1   
## 100064644|53-C/T 100065127|11-C/T 100082124|16-C/G 6632526|27-G/T 6650445|31-C/T 6650584|38-A/G 6650848|20-G/A 6651173|50-C/A 6651298|24-T/G 6651530|41-T/C 6651782|31-G/A   
## 1 1 1 2 1 1 1 1 1 1 1   
## 6651907|9-T/C 6652024|30-A/G 6652131|34-G/A 6652159|67-C/T 6652177|21-C/T 6652210|27-C/A 6652401|28-T/A 6652416|68-C/G 6652713|26-G/C 6652866|10-G/A 6652983|43-C/A   
## 1 1 2 1 1 1 1 1 1 1 1   
## 6653039|43-G/C 6653044|17-A/G 6653092|18-T/C 6653202|68-T/A 6653253|13-C/G 6653255|39-G/T 6653445|25-C/G 6653487|29-C/T 6653527|21-G/A 6653922|36-T/C 6653930|13-A/T   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6654013|57-T/G 6657669|38-C/T 6658619|38-A/G 6661144|14-T/C 6661228|61-G/A 6661239|28-A/G 6661757|61-G/A 6661837|5-T/C 6663958|42-G/C 6664017|22-C/T 6665345|60-G/A   
## 1 1 1 2 2 1 1 1 1 1 1   
## 6665563|37-A/C 6665563|41-G/A 6665563|7-C/T 6666102|24-A/G 100015848|14-C/A 100016751|21-G/A 100017832|10-T/C 100017856|21-A/G 100018301|7-A/G 100019450|10-C/A 100019818|16-G/A   
## 1 1 1 1 1 1 1 1 1 1 2   
## 100019983|13-A/G 100020502|50-G/A 100020602|47-A/G 100065169|68-T/C 100066267|15-G/A 100066657|20-C/G 6632946|54-T/A 6650395|54-T/C 6650450|36-T/C 6650539|5-T/C 6650675|13-G/T   
## 2 1 1 2 2 1 1 1 1 1 1   
## 6650760|49-T/G 6650770|63-T/C 6650778|15-A/G 6650888|42-T/A 6650948|22-G/A 6651067|68-T/C 6651104|14-T/C 6651269|64-A/G 6651380|66-C/A 6651460|39-T/A 6651469|31-G/T   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6651565|25-G/T 6651594|47-T/G 6651714|59-A/T 6651809|19-T/C 6651814|64-A/G 6652119|10-C/T 6652183|53-C/T 6652218|58-G/A 6652272|46-C/A 6652443|56-C/T 6652587|38-G/C   
## 1 1 1 1 2 1 1 1 1 1 1   
## 6652614|24-T/A 6652643|8-A/T 6652647|54-C/A 6652695|37-C/T 6652702|52-A/C 6652729|55-C/G 6652886|48-T/A 6653028|14-A/G 6653065|44-C/T 6653124|7-G/C 6653205|17-C/T   
## 1 1 1 1 1 1 1 1 1 1 2   
## 6653210|45-C/A 6653524|37-T/G 6653532|60-C/T 6653787|34-A/G 6653818|55-C/T 6653820|23-G/A 6653825|25-G/A 6653908|59-C/G 6653938|33-G/A 6656975|12-C/G 6658434|32-G/T   
## 1 1 1 1 2 1 1 1 1 1 1   
## 6661131|30-C/A 6661170|60-C/T 6661460|63-C/T 100082330|10-C/T 6661516|30-G/T 6661542|10-A/G 6661650|9-G/A 6661787|54-G/C 6661807|10-G/A 6663931|44-A/G 6663966|33-A/G   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6664887|16-T/G 6665234|5-T/A 6666170|37-C/T 100016216|6-C/A 100016431|13-A/G 100016980|14-G/C 100017035|18-A/G 100018089|20-C/A 100018299|18-A/G 100019103|66-G/A 100020260|22-G/C   
## 1 1 1 1 1 1 2 1 1 1 1   
## 100020593|29-A/G 100021233|9-G/T 100022402|38-T/A 100022743|53-G/A 100064690|24-G/C 100065349|19-G/C 100065841|23-T/C 100074065|11-G/A 6650412|48-C/T 6650459|40-G/A 6650487|15-T/C   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6650510|49-G/C 6650571|53-C/T 6650575|33-C/T 6650657|31-A/G 6650727|33-T/A 6650764|18-A/G 6650786|30-G/A 6650877|51-A/G 6650982|52-G/T 6650992|26-T/G 6651041|46-A/G   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6651162|25-G/T 6651244|31-C/A 6651284|8-G/C 6651398|18-G/A 6651485|12-A/G 6651517|35-T/G 6651527|40-C/T 6651546|39-T/C 6651644|49-G/A 6651663|43-G/C 6651671|42-C/A   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6651691|10-G/A 6651700|17-C/A 6651734|47-T/C 6651746|20-C/T 6651800|11-A/G 6651813|5-C/T 6651896|64-A/G 6651912|26-C/G 6651917|68-G/T 6652038|34-C/A 6652059|20-C/T   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6652081|56-C/G 6652085|6-G/A 6652121|43-A/T 6652134|47-G/C 6652186|30-C/T 6652189|13-A/G 6652281|62-C/G 6652285|54-C/T 6652290|29-T/C 6652304|61-G/T 6652432|55-C/T   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6652503|20-A/G 6652505|16-A/C 6652521|39-C/T 6652525|37-G/T 6652601|21-T/C 6652602|25-G/C 6652606|48-T/C 6652624|28-T/C 6652668|15-G/C 6652670|16-C/G 6652721|10-T/A   
## 1 2 1 1 1 1 1 1 1 1 1   
## 6652733|37-A/G 6652745|53-A/G 6652752|31-C/T 6652791|49-C/A 6652818|11-T/C 6652862|15-A/G 6652881|22-C/A 6652972|10-T/C 6652998|52-A/T 6652999|57-A/G 6653082|48-T/C   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6653098|9-A/G 6653162|29-G/A 6653274|28-A/G 6653325|64-G/C 6653332|57-G/A 6653357|42-C/T 6653362|53-G/C 6653412|42-A/G 6653426|18-C/T 6653440|10-T/C 6653465|26-C/G   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6653468|58-T/C 6653470|47-G/C 6653503|52-C/T 6653589|18-G/A 6653681|55-A/G 6653716|66-G/A 6653721|50-T/C 6653756|39-T/C 6653768|57-T/C 6653772|52-C/T 6653912|41-A/G   
## 2 1 1 1 1 1 1 1 1 1 1   
## 6653970|10-G/T 6654035|9-A/T 6654089|34-G/C 6657074|8-C/T 6657427|36-T/G 6658142|19-G/A 6658487|31-A/T 6658567|11-A/G 6661106|67-C/A 6661340|59-C/T 6661404|52-G/C   
## 2 1 1 1 1 1 1 1 1 1 1   
## 6661465|25-C/G 6661493|15-T/C 6661592|37-C/T 6661602|55-A/G 6661729|38-A/G 6661755|5-T/C 6661849|5-T/A 6662667|9-T/C 6663069|39-G/A 6663912|29-A/G 6663945|17-A/G   
## 1 1 1 1 1 1 1 2 1 1 1   
## 6665239|6-A/G 6665353|11-A/G 6665974|11-A/T 6666103|68-G/A 100016182|32-A/G 100017836|20-G/A 100017869|6-A/G 100018411|68-A/C 100020222|50-C/G 100021008|5-T/G 100021734|34-T/C   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100021842|6-T/A 100045232|8-G/C 100065195|59-A/G 100074076|12-A/C 100114674|53-G/A 6650380|13-C/T 6650404|10-C/T 6650422|10-A/C 6650471|64-T/C 6650500|18-G/C 6650515|50-A/G   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6650537|13-C/T 6650542|10-G/A 6650554|41-G/A 6650556|9-G/C 6650615|12-C/T 6650633|41-A/C 6650636|55-A/G 6650715|51-A/G 6650784|41-A/G 6650806|54-A/G 6650812|44-C/T   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6650885|45-G/T 6650890|7-G/A 6650891|27-C/G 6650939|41-A/G 6651045|37-G/C 6651063|37-A/C 6651127|50-C/G 6651189|65-G/A 6651213|10-C/G 6651259|15-G/A 6651305|62-C/T   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6651312|67-T/C 6651314|20-C/T 6651471|5-C/A 6651479|37-T/G 6651523|45-A/T 6651524|18-G/A 6651611|23-A/T 6651617|38-A/C 6651627|10-C/A 6651680|16-T/G 6651686|18-G/A   
## 1 1 1 1 1 1 1 1 1 1 2   
## 6651990|27-G/T 6652031|21-T/C 6652068|30-T/C 6652123|48-C/T 6652141|65-C/T 6652156|37-G/T 6652188|11-A/G 6652217|66-T/A 6652220|47-G/A 6652222|50-C/T 6652329|66-G/C   
## 1 1 1 1 1 1 1 1 2 2 1   
## 6652364|41-C/T 6652450|9-A/C 6652454|59-C/T 6652470|43-C/T 6652506|53-A/T 6652539|13-G/A 6652561|39-T/C 6652572|11-T/G 6652637|54-T/C 6652648|60-T/A 6652659|15-A/C   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6652665|12-A/G 6652728|28-T/C 6652751|58-A/G 6652774|48-G/A 6652817|30-A/G 6652845|15-G/A 6652939|61-C/T 6652947|66-T/A 6653004|32-T/G 6653011|14-C/T 6653170|45-A/G   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6653174|64-A/C 6653291|22-A/G 6653324|46-G/A 6653415|50-C/G 6653489|12-A/C 6653514|8-A/G 6653535|20-A/T 6653594|40-G/A 6653646|49-A/T 6653674|54-T/C 6653683|31-C/T   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6653750|55-T/C 6653771|10-A/G 6653779|21-T/C 6653822|27-G/A 6653827|15-A/G 6653858|29-G/T 6653928|36-T/A 6653969|26-C/T 6654051|34-T/C 6654056|9-C/T 6654078|12-T/G   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6657388|11-G/T 6657512|7-T/A 6657941|41-C/T 6658094|46-C/A 6658571|22-C/A 6658640|12-C/T 6661287|22-A/G 6661315|34-C/A 6661316|17-T/A 6661420|51-G/A 6661453|6-G/A   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6661468|17-G/T 6661489|62-C/T 6661552|5-G/T 6661577|44-A/C 6661601|15-G/A 6661629|40-G/A 6661651|60-G/A 6661703|29-A/G 6661728|35-C/T 6662799|24-G/T 6662820|22-T/G   
## 1 1 1 1 1 1 1 1 2 1 1   
## 6662890|34-A/G 6662898|11-T/C 6662977|22-A/G 6664083|6-T/C 6664294|44-T/A 6664720|7-C/A 6665218|24-G/A 6665351|57-C/G 100109477|37-C/T 6665629|41-C/T 6665821|31-C/T   
## 1 1 1 1 1 1 1 1 2 1 1   
## 100016377|14-C/T 100016728|8-C/G 100017376|68-T/C 100018451|6-C/T 100019918|66-C/T 100022411|61-C/G 100064620|27-T/G 100064811|7-G/A 100065350|20-A/G 100109953|9-A/G 6650460|21-T/C   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6650519|57-T/C 6650579|51-T/C 6650580|37-G/A 6650607|66-G/A 6650671|45-C/A 6650689|52-T/A 6650703|19-G/A 6650815|7-A/G 6650944|60-T/A 6650965|12-G/T 6651031|38-C/A   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6651069|41-G/C 6651089|58-C/G 6651139|39-G/A 6651355|22-C/T 6651367|34-G/T 6651487|9-A/G 6651578|26-T/C 6651593|32-G/C 6651619|40-T/C 6651620|38-C/T 6651675|34-C/G   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6651806|49-A/C 6651821|15-A/G 6651825|51-A/T 6651968|21-G/A 6651983|9-A/T 6652057|5-C/T 6652073|37-A/C 6652074|10-G/A 6652115|60-T/G 6652197|23-A/G 6652244|39-C/T   
## 1 1 1 2 1 1 1 1 1 1 1   
## 6652249|29-C/T 6652338|5-C/T 6652392|7-T/C 6652466|57-C/T 6652514|66-T/C 6652554|50-A/G 6652556|53-T/C 6652589|8-C/A 6652749|25-T/C 6652753|11-T/G 6652776|45-A/T   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6652806|6-C/T 6652834|26-T/C 6652885|65-C/G 6652929|66-T/A 6652935|47-C/T 6653073|5-G/T 6653088|16-G/A 6653093|44-G/A 6653104|55-C/T 6653436|11-T/C 6653497|6-C/T   
## 1 1 2 1 1 1 1 1 1 1 1   
## 6653639|65-G/T 6653645|43-C/G 6653769|16-G/C 6653927|44-C/T 6653953|41-C/T 6653987|61-A/G 6653993|15-A/G 6654009|23-C/T 6656879|21-T/C 6656932|34-C/G 6657077|25-T/C   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6657152|47-T/C 6657200|7-T/C 6657228|8-C/T 6657447|9-A/T 6657510|13-A/G 6657518|14-A/C 6657616|11-A/G 6657889|17-C/G 6657989|13-T/G 6657992|32-T/C 6658007|29-T/A   
## 1 1 1 1 1 1 2 1 1 1 1   
## 6658058|7-C/G 6658330|11-C/G 6658349|12-A/C 6658401|16-G/T 6658424|11-A/T 6658451|54-A/G 6658473|36-A/C 6658548|12-C/A 6658667|17-A/G 6661128|54-T/A 6661132|53-C/T   
## 1 2 1 1 1 1 1 1 2 1 1   
## 6661145|48-C/T 6661169|16-A/C 6661418|24-T/G 6661447|57-G/A 6661551|43-A/T 6661606|48-G/C 6661621|22-T/C 6661667|62-A/G 6661716|24-C/T 6661770|21-C/T 6662676|12-G/A   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6662737|6-A/T 6662747|22-A/G 6662778|8-A/G 6662831|7-G/C 6662962|22-T/G 6662984|35-A/G 6663913|23-G/A 6663996|47-G/T 6664080|40-C/A 6664712|24-G/A 6665849|24-T/C   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6665849|27-A/G 100019306|41-G/C 100023120|53-T/C 100045071|11-G/T 100073787|12-T/C 100073808|38-G/A 100082396|45-C/T 100082676|61-G/A 6650780|18-C/T 6651956|47-C/T 6652018|68-G/A   
## 1 1 1 2 1 1 1 1 2 1 1   
## 6652299|52-G/C 6652898|20-T/A 6653146|40-G/A 6657342|25-G/C 6657451|13-T/C 6657720|20-T/G 6657882|21-C/T 6658021|6-G/C 6658104|7-T/G 6658212|12-A/G 6658246|8-C/T   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6661212|11-A/C 6661231|65-C/G 6661373|56-C/G 6661472|51-T/C 6662632|29-C/A 6662644|9-A/C 6662718|14-A/G 6662788|5-C/G 6663015|45-C/G 6663056|27-G/A 6663101|48-T/C   
## 1 1 2 1 1 1 1 1 1 1 1   
## 6663942|12-C/G 6663943|19-C/G 6664030|20-T/A 6664734|37-C/T 6665050|6-C/T 6665686|46-A/G 100064830|15-G/C 100073523|7-G/T 100073850|23-A/C 100074130|14-T/C 100085916|27-G/T   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100085918|17-C/T 100093520|12-T/C 100102104|19-G/T 100104847|9-C/T 100107045|42-G/A 100111102|5-T/C 100118833|7-G/A 100118214|9-G/A 6661395|67-G/A 6661549|61-G/A 6664299|8-G/C   
## 2 1 1 1 1 1 1 1 1 2 1   
## 6661899|30-T/C 100117994|5-C/A 100118292|6-C/T 100120255|8-G/T 100122091|12-G/A 6658340|10-T/A 6662816|5-C/A 6662936|6-T/A 6662936|8-A/G 6662964|8-C/T 6662966|17-G/A   
## 1 1 2 1 1 1 1 1 1 1 2   
## 6664885|14-G/A 6661031|8-G/A 100066612|18-A/G 6652306|13-T/C 100085941|14-G/T 100018734|36-T/A 6661163|12-C/T 100065635|32-C/T 6661774|57-G/A 100082623|35-G/A 100065110|61-C/T   
## 1 1 1 2 1 2 2 2 2 2 1   
## 6661113|35-G/T 100118834|24-T/A 100065734|46-A/C 6663988|26-G/A 6661432|6-G/T 6661894|14-C/T 100025027|41-A/T 100065037|22-A/G 6661398|17-C/G 6661689|5-A/G 6664901|14-T/C   
## 1 2 1 1 1 1 1 1 1 1 1   
## 6661325|52-G/A 100024800|55-T/C 6661569|21-G/T 100015330|20-C/A 100017807|41-C/T 100021430|18-A/C 100021922|61-T/G 100024081|21-C/T 100044596|39-C/T 6651341|31-A/G 6652981|11-C/A   
## 1 2 1 1 1 1 1 1 1 1 1   
## 100065893|67-C/T 100015238|36-T/C 100015491|32-C/T 100015884|7-G/A 100019050|23-G/A 100022813|55-A/C 6653072|57-C/T 100016062|38-A/G 100017135|23-C/G 100021766|9-T/A 100022076|54-G/A   
## 2 1 1 1 1 1 2 2 1 1 1   
## 6661377|53-C/T 100015975|43-A/T 100016187|49-G/C 100024150|52-T/G 100018712|5-A/C 100021390|26-A/G 100045683|24-T/C 6661840|10-C/T 100016255|15-T/A 100020380|45-T/G 100021355|11-G/T   
## 1 1 1 1 1 1 2 1 1 1 1   
## 100021470|64-A/G 100023138|54-G/A 100023921|57-C/T 6650819|43-C/T 6653757|13-T/G 100015309|36-C/A 100015511|36-A/G 100015825|32-G/T 100016469|15-C/A 100019560|67-A/T 100021988|8-A/G   
## 1 1 1 2 1 1 1 1 1 1 1   
## 100022638|31-A/T 100022674|60-A/G 100023456|47-T/C 100023464|21-G/T 100023506|63-G/C 100121198|44-C/T 6664022|46-T/C 100017302|21-A/C 100017884|42-T/C 100020887|11-G/A 100022100|32-C/G   
## 1 1 1 1 1 1 2 1 1 1 1   
## 100022978|31-G/T 100064951|7-C/T 100108048|25-G/C 6653000|22-C/T 6661699|44-C/T 100015643|21-A/G 100016494|59-G/A 100017300|12-G/T 100017465|6-C/A 100019558|59-A/C 100021942|23-G/A   
## 2 1 1 1 1 1 1 1 1 1 1   
## 100022249|52-T/C 100022694|55-C/G 100022788|12-C/T 100101046|61-C/A 6652314|37-T/C 100015332|7-C/A 100015389|56-T/A 100015557|20-C/G 100017329|58-G/T 100018963|60-A/C 100019082|25-A/G   
## 2 1 2 2 1 1 1 1 1 1 1   
## 100019182|47-T/A 100020256|17-T/G 100020398|8-A/C 100021013|48-A/T 100021289|8-A/G 100023421|10-T/G 6653492|18-A/G 6661385|64-G/C 6661806|68-G/A 100017094|36-C/T 100017357|22-T/C   
## 1 1 1 1 1 1 1 1 2 1 1   
## 100018276|13-A/G 100018426|49-A/T 100018952|47-A/T 100021643|42-A/T 100022068|8-T/C 100022755|51-G/A 100066666|24-G/A 6661519|31-A/T 100015745|7-C/T 100018424|55-T/A 100021037|43-A/C   
## 1 1 2 1 1 1 2 1 1 1 1   
## 100021847|31-C/T 100022744|13-G/C 100023381|30-A/G 100023472|27-C/T 100023477|8-T/G 100024933|20-T/G 6651050|34-T/C 6652421|32-C/G 100082161|17-G/C 6661817|22-G/A 6665065|47-C/T   
## 1 1 1 1 1 1 2 1 2 1 1   
## 6666515|7-G/A 100015276|20-C/T 100016849|33-A/G 100018157|49-A/G 100018512|6-C/A 100019166|40-G/A 100019599|68-C/T 100020395|68-C/T 100020496|40-T/C 100022054|30-T/C 100022238|35-T/C   
## 1 1 1 2 1 1 2 2 1 1 1   
## 100022761|21-C/T 100064714|31-A/C 100082512|27-G/T 6635566|26-T/G 6651319|63-C/T 100101042|27-A/G 100015522|21-A/T 100015635|48-A/C 100016324|17-G/C 100017167|42-A/G 100017270|46-A/G   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100018878|51-C/T 100019810|41-A/G 100020422|49-T/G 100021781|44-T/A 100022052|36-T/A 100022732|37-A/G 100023771|42-A/T 100064904|9-C/T 100066133|22-A/T 6635226|21-A/G 6661769|64-T/A   
## 2 2 2 1 1 1 1 1 1 1 2   
## 100015503|66-A/T 100015669|26-A/G 100016926|66-A/G 100017163|47-A/G 100017930|44-G/A 100018643|57-G/A 100019627|11-G/A 100019775|26-T/C 100020011|13-C/A 100020180|30-T/A 100020794|35-G/A   
## 1 1 1 1 2 1 1 2 1 1 2   
## 100022441|55-A/G 100065577|55-T/C 100066375|31-C/T 100101063|14-G/A 6634311|8-T/C 6650564|10-C/G 6651449|21-G/A 100015590|56-T/C 100015813|59-T/A 100015865|6-C/T 100015966|35-T/C   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100016299|67-G/A 100017046|59-A/G 100017306|20-C/T 100017681|59-G/A 100018541|45-C/T 100019001|52-T/C 100019248|51-C/A 100019357|10-A/C 100020167|8-T/C 100020584|49-G/A 100020830|34-G/T   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100021518|64-T/G 100023323|17-A/G 100065274|22-T/A 100066055|6-T/C 6652294|28-T/C 6661350|27-G/A 100015979|10-G/A 100016232|12-A/G 100016804|11-G/T 100016918|64-T/A 100017355|38-C/A   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100018239|64-C/A 100018653|43-T/C 100019075|38-G/C 100020739|29-A/G 100022196|19-G/A 100022506|24-C/G 100022716|15-T/C 100065001|58-T/A 6661682|7-T/C 100016459|9-T/C 100016800|17-T/A   
## 1 1 1 1 1 2 1 1 1 1 1   
## 100016857|32-A/T 100016901|25-G/A 100017304|40-T/G 100018018|24-G/T 100018056|56-G/C 100018188|36-G/T 100018521|14-G/A 100019406|13-G/A 100019617|68-C/A 100020206|45-C/G 100021877|23-T/G   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100022598|56-C/T 100022715|29-C/T 100022769|37-G/A 100023124|68-T/G 100045390|32-G/A 100064869|18-A/G 100066159|27-C/T 6651348|40-T/G 6651910|25-A/T 6661267|31-G/A 6661407|12-G/C   
## 1 1 1 1 1 1 1 2 1 1 1   
## 6661471|46-G/T 100015328|40-A/C 100015329|5-T/A 100015695|23-C/T 100015994|62-A/T 100016280|42-G/C 100016310|50-G/A 100017976|8-T/G 100018090|15-T/C 100018376|15-G/A 100019811|9-A/G   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100019879|32-T/C 100020836|42-T/G 100020897|56-T/C 100020918|25-A/G 100022084|40-A/G 100022253|28-T/C 100022347|11-T/G 100022822|20-C/T 100022863|16-C/G 100064727|32-C/G 100064762|17-A/C   
## 1 1 2 1 1 1 1 1 1 1 1   
## 100065060|19-C/T 100065198|28-C/T 100065497|6-G/A 100066169|37-C/A 100066413|57-T/G 100066518|25-A/C 6650606|12-A/G 6650782|37-G/A 6651161|26-A/T 6651343|64-C/T 6651987|65-G/C   
## 2 2 1 1 1 1 1 1 1 1 1   
## 6652583|9-C/G 6653986|35-G/A 100017405|46-T/C 100018360|48-T/C 100020046|11-T/G 100020184|33-A/T 100020356|17-C/T 100021172|11-C/T 100021739|23-A/G 100022407|43-A/G 100022586|32-A/G   
## 1 1 1 1 1 1 1 2 1 1 1   
## 100023347|40-A/G 6630669|54-A/C 6651087|52-A/G 6653823|53-T/C 6661427|45-A/T 6664050|11-T/C 100015339|30-G/A 100015780|53-A/C 100016477|49-C/T 100016846|6-A/G 100017534|5-A/C   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100018524|64-G/T 100018715|45-A/C 100019637|34-T/C 100019730|38-A/G 100020004|34-G/C 100020093|64-G/T 100020177|61-C/T 100020736|62-T/C 100021876|36-T/C 100022251|18-A/C 100022479|48-G/A   
## 1 1 1 1 1 1 1 2 1 1 1   
## 100023192|44-C/T 100065374|28-T/A 100065413|68-G/T 100065460|57-T/A 100065786|62-T/C 100065981|32-G/A 100093548|6-T/C 6635925|28-G/A 6651303|15-G/A 6652226|61-A/C 6652595|25-T/C   
## 1 1 1 1 2 1 2 1 1 1 2   
## 6652880|30-G/A 6653288|5-T/C 6661743|26-G/A 100015258|11-G/A 100015334|11-A/C 100015520|48-T/A 100016206|60-T/G 100016803|55-T/A 100016999|24-T/C 100017691|42-G/C 100018254|14-G/C   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100018691|53-C/T 100018832|49-T/A 100018836|30-T/A 100018972|63-T/C 100018993|58-G/A 100019968|28-T/C 100019971|65-T/G 100020134|53-C/T 100020237|19-C/T 100020353|50-A/G 100021532|8-T/G   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100022232|46-T/C 100022564|55-G/A 100064590|10-C/G 100064752|47-G/T 100066482|40-C/G 100066499|21-A/C 100082126|5-A/G 100082673|16-C/G 100118390|28-A/G 100118390|5-C/G 6650749|8-A/C   
## 1 1 1 1 1 1 2 1 1 1 1   
## 6650993|48-A/G 6651187|10-A/T 6652437|24-T/C 6652887|56-G/A 6653102|62-A/C 6653358|49-T/A 6661200|10-A/G 6661277|39-G/A 6661479|25-C/A 6665776|10-G/A 100116183|6-G/A   
## 1 1 1 1 2 1 1 1 1 1 2   
## 100065388|52-T/C 100015585|60-A/G 100016513|5-C/A 100016711|48-G/A 100017104|21-C/A 100017773|59-C/T 100017895|25-A/T 100018069|40-A/G 100018279|30-C/A 100018386|10-G/C 100018698|26-G/A   
## 2 1 1 2 1 2 1 1 1 1 1   
## 100021026|29-A/G 100021644|9-C/A 100022215|30-A/G 100023511|29-G/A 100065011|9-G/T 100065481|45-G/C 100065665|18-T/G 100082041|35-T/G 100082540|39-C/T 6635352|11-C/T 6651637|46-A/C   
## 1 1 1 1 1 1 1 2 1 1 1   
## 6652697|44-G/A 6652848|23-G/T 6661188|24-G/C 6661506|68-A/T 6661846|36-C/G 100121512|16-T/C 100015223|24-C/T 100015336|36-G/A 100016018|57-G/C 100016257|18-G/A 100016363|39-C/T   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100016533|62-C/T 100017334|62-C/T 100017905|42-A/G 100018782|32-C/A 100018840|12-A/G 100018918|28-G/A 100018973|26-T/G 100019583|32-G/T 100020635|19-T/C 100020952|67-A/G 100021607|12-C/T   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100021759|51-G/A 100022391|27-T/C 100022668|57-T/C 100065738|47-G/C 100066164|11-G/A 100066550|5-T/C 6633324|49-T/G 6634529|30-T/C 6651763|8-A/T 6651994|28-A/G 6652616|33-T/C   
## 1 1 1 1 1 2 1 1 1 1 1   
## 6653336|20-T/C 6653857|60-T/A 6661332|57-A/T 6661613|21-G/A 100015558|12-T/G 100016614|13-A/G 100016893|9-G/A 100016974|14-T/C 100017016|14-G/C 100018076|32-A/G 100019206|6-T/G   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100019217|46-A/T 100019384|38-C/T 100019646|24-T/A 100019874|10-C/G 100019964|12-C/A 100020293|37-A/G 100020842|17-G/A 100021693|26-T/C 100022050|68-A/T 100022979|40-A/G 100023492|66-T/C   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100045668|41-G/A 100065160|26-C/T 100066259|47-G/A 6630074|25-T/C 6651026|5-A/G 6651431|37-C/G 6651540|51-T/C 6651708|27-C/T 6652397|25-T/C 6653258|20-A/C 6661295|56-C/A   
## 1 1 1 1 1 1 1 1 2 1 1   
## 100016658|9-C/T 100016823|19-A/C 100017190|25-A/G 100017629|18-T/C 100018573|66-T/A 100019552|33-T/G 100021046|26-A/G 100022548|38-A/C 100065206|29-C/A 100065846|12-T/A 6651279|28-G/C   
## 2 1 1 1 2 1 1 1 1 1 1   
## 6652199|28-G/A 6652400|17-C/T 6652445|11-A/T 6653155|9-C/G 6653256|29-G/A 6661317|35-T/C 6663970|38-G/C 6665305|7-T/C 100015212|40-T/C 100015773|62-T/C 100016229|66-G/T   
## 1 1 1 1 1 1 2 1 1 1 1   
## 100017966|44-G/A 100018540|41-C/G 100019145|8-G/A 100020607|26-G/A 100021569|14-G/A 100023034|23-C/T 100023386|11-T/C 100065690|24-C/G 6650623|27-T/C 6650909|20-C/G 6651336|17-C/T   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6651419|53-T/C 6652696|7-A/G 6652736|50-T/A 6653280|14-G/T 6653295|57-T/C 6653940|33-C/G 6661206|18-A/G 6661327|42-G/C 6664003|47-C/T 100015464|37-A/T 100015704|41-G/A   
## 1 1 1 1 1 1 1 1 2 1 1   
## 100016862|45-C/T 100019871|11-C/T 100020987|40-T/C 100021296|8-G/A 100065560|20-C/G 100066263|36-C/T 100066672|61-G/C 100082462|27-A/G 6632122|60-C/T 6650958|39-G/T 6651020|25-G/A   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6651285|11-A/G 6651625|35-A/G 6651661|21-C/A 6651716|31-A/G 6651796|30-T/G 6651885|10-A/T 6652069|22-A/G 6652117|17-A/G 6652234|42-G/A 6653188|36-T/C 6653368|52-A/G   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6661580|47-C/T 6661803|14-T/C 6661812|53-C/T 6661866|32-G/C 100015736|43-G/A 100016141|36-G/A 100017142|64-C/T 100019476|8-T/C 100022055|56-G/A 100022078|12-T/C 100022886|24-G/A   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6631211|9-C/T 6651047|34-T/G 6651407|46-C/T 6651481|28-G/C 6652585|52-T/G 6653252|68-G/A 6653882|52-A/T 6653901|21-A/T 6654029|48-A/G 100015720|28-G/T 100016789|20-G/T   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100016796|38-G/A 100017412|8-A/G 100017613|42-T/G 100017642|45-C/A 100017690|28-G/T 100018660|67-C/T 100020040|40-T/A 100021191|5-G/C 100023009|12-A/G 100065757|7-G/C 100066245|18-C/T   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100074042|5-T/C 100082359|43-C/T 6635615|63-A/T 6650495|22-G/C 6650509|12-C/A 6651034|16-A/T 6651369|18-C/G 6651472|63-T/C 6651525|65-T/G 6651657|19-G/A 6651750|54-T/C   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6652293|6-T/G 6652474|14-G/A 6653662|55-G/C 6661543|6-A/G 100017915|15-G/A 100020329|6-T/C 100021269|67-C/T 100021647|7-C/G 100065434|44-T/G 100091128|19-C/T 6630649|30-T/C   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6631485|63-C/T 6634232|23-C/T 6650379|29-C/T 6650507|19-A/C 6650854|20-G/A 6651417|34-C/T 6651649|55-G/A 6651797|46-C/T 6652137|50-T/C 6652171|14-G/C 6652353|59-C/T   
## 1 2 1 1 1 1 1 1 1 1 1   
## 6652439|17-A/C 6652481|49-A/G 6652592|44-C/T 6652631|8-T/C 6652759|5-G/C 6653033|21-C/A 6653086|60-T/C 6653403|58-C/G 6653441|17-C/A 6653651|15-A/G 6653652|24-C/T   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6653717|62-T/A 6653911|22-G/C 6657418|43-C/G 6658319|40-G/A 6661213|21-C/T 6661527|23-T/C 6664003|60-C/T 100017332|29-G/A 100018422|17-T/C 100019803|28-C/T 100020227|22-C/T   
## 1 1 1 1 1 1 2 1 1 1 1   
## 100021230|36-G/A 100045732|32-A/G 100065400|55-A/G 100065695|10-T/A 6650641|39-G/C 6650730|37-C/T 6651079|5-A/T 6651096|56-T/C 6651302|27-C/G 6651575|42-A/G 6651609|46-G/A   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6651712|16-T/C 6651755|6-C/G 6651927|7-C/T 6652423|26-A/G 6653022|23-G/C 6653024|17-C/T 6653143|11-A/G 6653233|66-T/A 6653287|46-C/T 6653308|9-A/G 6653555|27-A/C   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6653600|5-T/C 6653915|45-T/G 6653995|60-T/C 6657836|14-A/G 6661227|16-C/A 6661262|58-G/T 6661434|38-G/T 6661641|45-A/G 6661702|15-A/G 6662581|37-A/T 100114018|47-C/T   
## 1 1 1 1 2 1 1 1 1 1 1   
## 100016369|9-A/G 100017864|12-A/C 100018488|65-A/G 100018874|30-C/T 100022833|43-A/C 100045516|20-A/G 100065233|14-C/G 100065518|13-T/G 100065693|58-C/T 100066101|12-T/C 6633196|52-G/C   
## 1 1 1 1 1 1 1 1 1 1 2   
## 6633443|50-C/G 6650488|44-T/C 6650661|48-G/C 6650800|48-C/T 6650825|39-G/A 6650845|36-C/T 6650876|20-T/G 6651093|21-T/C 6651267|9-G/A 6651306|19-G/A 6651379|44-C/T   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6651554|67-T/C 6651736|43-T/C 6651932|30-T/C 6651941|51-C/T 6652116|48-C/T 6652661|48-C/T 6652756|60-T/C 6652829|67-A/G 6653016|28-G/A 6653035|59-T/C 6653400|19-A/T   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6653480|48-C/A 6653764|58-T/G 6654093|42-A/G 6661397|22-T/G 6663931|67-C/G 6663957|68-G/A 6663967|43-G/C 6665630|56-C/T 100017995|7-C/G 100020113|15-A/T 100022566|30-T/C   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100044990|7-T/C 100065049|7-G/T 100066339|40-A/G 100082461|32-T/A 6632579|11-G/A 6650828|56-C/T 6650907|12-G/C 6650924|57-A/T 6651078|6-G/A 6651186|45-G/A 6651357|21-G/A   
## 1 1 1 1 2 1 1 1 2 1 1   
## 6651533|11-T/C 6651835|18-A/G 6651845|5-C/T 6652615|62-G/A 6652654|38-A/G 6652959|31-C/A 6652967|19-C/T 6653003|36-G/C 6653135|53-G/T 6653227|62-A/G 6653345|29-G/T   
## 1 1 1 2 1 1 1 1 1 1 1   
## 6653424|16-A/C 6653449|26-T/C 6653581|57-G/C 6653676|29-A/G 6653712|15-T/C 6653723|10-C/T 6653956|18-A/G 6654001|23-C/A 6658504|15-C/A 6658614|43-T/G 6661202|35-A/G   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6661234|44-T/C 6661397|27-C/T 6661731|51-C/A 6661793|54-A/G 6663947|19-T/G 6664041|32-A/G 6664042|66-G/A 6664043|13-T/A 100017392|44-T/G 100020618|50-C/T 100022663|33-G/A   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6630289|20-G/C 6650619|36-T/C 6650638|22-A/C 6650699|38-T/C 6650728|58-T/C 6650755|23-T/A 6650783|14-G/A 6650849|14-T/C 6650880|67-A/G 6651095|41-C/T 6651245|18-T/C   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6651292|26-C/G 6651352|20-T/C 6651467|62-G/C 6651557|42-C/T 6651631|26-C/T 6651664|24-T/C 6651688|48-C/T 6651718|35-C/T 6651795|51-C/T 6651923|42-T/C 6651965|39-C/T   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6652219|19-T/C 6652378|63-C/T 6652434|66-A/C 6652655|53-T/G 6652722|31-C/A 6652830|22-T/C 6652882|43-C/A 6653040|42-C/T 6653271|6-A/G 6653385|63-G/T 6653386|12-C/T   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6653418|27-T/A 6653450|16-A/G 6653476|17-G/C 6653520|26-A/G 6653763|12-G/A 6653916|15-T/C 6654026|50-T/C 6654061|33-A/G 6657577|47-G/A 6657800|39-C/A 6658145|22-C/T   
## 1 1 1 1 1 1 1 1 1 2 1   
## 6658508|25-A/G 6661100|58-G/C 6661185|17-G/C 6661209|14-C/T 6661230|12-C/T 6661236|16-T/C 6661314|22-A/C 6661446|29-G/A 6661535|11-G/A 6661559|28-T/C 6661597|46-G/C   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6661642|45-G/T 6661657|60-G/A 6661731|68-A/G 6661796|25-A/G 6662683|15-T/C 6664747|36-A/C 6665469|54-T/A 6665629|23-C/G 100023210|29-C/A 100065681|26-G/T 100114697|13-C/G   
## 1 1 2 1 1 1 1 1 1 1 1   
## 6630523|63-G/A 6650409|45-T/C 6650528|28-G/T 6650721|49-C/T 6651065|27-G/T 6651098|23-T/C 6651125|47-G/A 6651426|10-G/A 6651605|61-C/A 6651634|10-G/C 6651759|12-C/A   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6651815|20-A/C 6652098|62-G/A 6652125|13-C/T 6652182|12-A/G 6652205|23-G/T 6652340|36-A/G 6652361|22-A/G 6652367|17-C/A 6652519|22-A/T 6652681|7-T/C 6652787|16-C/A   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6653095|8-G/T 6653128|9-G/T 6653131|30-G/A 6653340|41-C/T 6653516|66-C/G 6653855|60-C/A 6654020|41-T/C 6654087|18-G/A 6657400|14-C/T 6658359|12-G/A 6661176|55-C/G   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6661182|18-C/T 6661371|21-A/G 6661403|66-A/C 100065611|31-A/C 6661497|12-G/A 6661654|59-A/G 6662907|21-A/G 6663946|23-C/G 6665056|53-C/T 6665628|28-C/A 100019769|39-T/C   
## 1 1 1 2 1 1 1 1 1 2 1   
## 100082375|66-T/G 100082404|55-T/C 6650592|12-C/A 6651184|37-G/A 6652576|37-G/T 6652672|55-C/T 6653304|23-A/T 6656915|10-G/T 6657307|34-A/T 6657558|38-C/T 6658381|25-T/C   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6658521|6-G/C 6661752|23-A/C 6664327|23-G/A 100044751|5-A/G 100085984|13-G/A 100115531|5-T/A 6643578|12-A/G 100106109|11-G/A 100113138|5-T/G 100117994|11-T/A 6662821|6-T/A   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6664383|8-A/G 6665284|5-C/G 6665328|8-T/A 6665629|20-C/G 100118214|11-C/A 6663102|10-G/A 100021042|56-T/C 100090841|7-C/A 100103683|13-G/A 100103683|6-A/T 100106227|13-C/A   
## 1 2 1 1 1 1 2 1 1 1 1   
## 100106247|9-T/A 100111488|6-C/G 100112338|6-T/G 100114623|5-C/G 6644428|5-T/A 6647555|5-C/A 6648501|8-A/G 6648560|7-T/C 6658337|6-C/G 6664325|9-C/T 6664355|7-C/T   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6664406|5-G/T 6664885|10-C/T 6665134|5-A/G 6665147|13-C/T 100065344|49-T/C 6661457|44-C/T 6661867|13-G/A 6661122|26-C/T 100064630|57-A/G 100025554|68-T/A 6658677|32-C/G   
## 2 1 1 1 2 1 1 1 2 1 1   
## 6635413|16-T/A 6661764|43-C/A 6652801|27-G/A 100024646|8-G/C 100066569|63-G/A 6652374|43-T/C 6661449|54-A/C 6661688|9-G/T 6661583|7-C/T 6661219|45-G/A 100016118|67-A/C   
## 1 1 1 1 1 2 1 2 2 1 1   
## 100065968|17-C/T 6664008|7-T/G 100019909|40-A/G 100024919|19-A/C 100021772|52-T/C 100066372|27-A/G 100091350|43-A/C 100017975|34-A/G 100045781|34-C/A 6652884|53-G/A 100017252|27-G/A   
## 1 1 1 2 1 1 1 1 1 1 1   
## 100017894|53-G/A 100022254|26-T/A 6632275|61-T/C 100065115|49-T/C 100065825|30-T/C 6654008|51-C/T 6653230|18-T/G 100020850|15-T/A 100024608|28-A/G 100065720|36-C/T 100019004|19-T/C   
## 1 1 2 1 1 1 1 1 1 1 1   
## 100022949|21-T/C 100024718|58-G/A 100065076|9-G/C 6650868|53-G/A 100017101|27-T/G 100017766|10-C/A 100019793|62-T/A 100021136|57-G/A 100021706|33-T/C 100025017|58-T/C 6652036|20-T/C   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100015261|30-G/A 100015698|55-A/C 100016039|28-T/C 100021704|31-A/T 100021798|6-G/A 100022137|6-T/C 100022883|14-A/G 100023375|24-A/C 100064876|34-G/A 100022317|10-A/G 100065186|8-T/C   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6653805|57-G/C 100021710|10-A/G 100023305|24-G/A 6634600|17-T/C 6650598|62-C/A 100017818|14-T/G 100020277|67-T/G 100020322|14-C/T 100021252|30-G/A 100022007|39-C/T 100022967|55-T/C   
## 1 1 1 1 1 1 1 1 2 1 1   
## 100023231|52-G/C 100024979|12-A/T 6651448|5-C/A 6661619|36-C/T 100101013|46-C/T 100015916|40-T/G 100019381|29-T/C 100021309|54-A/G 100022531|25-T/C 100022877|17-A/C 100023365|32-C/T   
## 1 1 1 1 2 1 1 1 1 1 1   
## 100023869|51-T/A 100066103|5-G/A 100066389|65-G/C 6652703|57-T/C 100019288|33-T/C 100020549|44-T/G 100020551|60-A/T 100023117|6-G/T 100023343|62-G/A 100065070|10-C/T 100119322|60-G/T   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6653215|23-A/C 100015905|30-T/A 100018538|19-A/G 100020139|46-T/C 100020548|9-A/C 100065378|43-C/T 100065666|20-A/T 100065687|58-C/T 6651010|63-C/T 6651023|13-C/T 6651465|19-A/G   
## 1 2 1 1 1 1 2 1 1 1 1   
## 6653507|50-C/G 6661164|56-C/G 100015555|49-G/A 100017215|20-C/T 100018040|51-T/A 100018557|8-A/C 100019185|63-C/G 100019688|44-C/T 100023075|63-C/G 6630180|30-A/G 100015432|27-G/A   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100017493|63-A/G 100020399|26-G/A 100020528|67-A/G 100021151|33-C/G 100021753|16-G/A 100021795|51-G/A 100062072|14-A/C 100066634|26-T/A 6661693|17-A/G 100015331|61-T/C 100015609|28-G/A   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100017169|13-G/A 100017928|37-T/A 100019505|12-C/A 100020075|44-G/T 100020413|29-G/A 100021373|46-G/A 100021417|26-A/C 100022461|56-A/G 100022969|9-G/A 100023275|19-T/C 100082212|44-A/G   
## 1 1 1 1 1 1 1 1 2 1 1   
## 6652622|54-G/A 6653084|57-C/G 6653710|21-C/T 6653840|32-A/T 100021632|19-T/C 100022984|17-G/C 100064905|26-T/A 100015960|29-G/A 100016761|32-C/T 100017811|61-T/C 100019007|29-T/C   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100020970|16-G/A 100065097|13-T/C 6651396|51-T/G 6651430|31-C/T 100015246|12-A/G 100017606|48-T/C 100018953|27-G/C 100019018|13-A/G 100020129|19-G/A 100020404|28-A/G 100020733|17-G/A   
## 1 1 1 1 1 1 1 1 1 1 2   
## 100021724|12-A/C 100066663|43-G/A 100122660|5-A/G 6630550|32-T/C 6652105|37-A/G 100015837|30-T/C 100016214|35-G/T 100017908|21-G/A 100019267|32-G/A 100023141|5-C/T 100023174|41-C/T   
## 1 1 2 1 1 1 1 1 1 1 1   
## 100064755|8-G/A 6651656|34-G/A 6651767|59-G/C 6664728|67-C/T 100018065|63-T/A 100019510|9-G/A 100019632|22-T/C 100019754|7-A/T 100020251|60-G/A 100021712|18-T/A 100044571|14-T/G   
## 1 1 1 1 2 1 1 1 2 1 1   
## 6661691|15-C/T 6663917|15-C/T 100018085|21-A/G 100019876|24-A/C 100020554|42-G/T 100022262|60-C/A 100023321|57-A/G 100065480|65-T/A 6652163|42-T/G 6661278|34-C/G 6661299|21-G/T   
## 1 1 1 1 1 1 1 2 1 1 1   
## 100016113|5-T/A 100018753|18-C/A 100022995|26-G/A 100045005|36-T/A 100065425|18-T/G 100065813|42-A/C 100066450|34-C/G 6652607|6-A/G 6653544|67-T/C 6661463|59-T/G 6661534|24-C/T   
## 1 1 1 2 1 1 2 1 1 1 1   
## 100020053|13-A/T 100020534|56-C/G 100020747|66-T/A 100022664|19-A/G 100023314|12-C/T 100024345|29-C/T 100065655|8-A/T 100082306|16-G/C 6632614|14-G/C 6650544|61-G/A 6661521|5-G/A   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6661754|5-A/T 100017623|23-C/T 100019111|65-T/A 100020626|26-A/C 100022838|5-C/T 6661655|44-C/A 100015424|32-C/A 100017638|47-T/C 100019862|5-A/G 100064626|46-C/T 100066576|33-T/C   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100082421|35-G/T 100082421|56-A/T 6661595|45-G/A 100018565|14-C/T 100019547|16-A/T 100021316|68-A/T 100066021|13-T/C 100066577|66-T/C 6635995|53-T/G 6650794|31-T/C 6651294|52-C/T   
## 1 1 1 2 1 1 1 1 1 1 1   
## 6661643|39-A/C 6665642|53-T/C 100017091|53-T/C 100018288|5-C/T 100019411|13-C/T 100022970|53-A/G 100044935|38-C/G 100065133|26-G/A 100065604|17-G/A 6653270|12-C/T 100082437|5-G/T   
## 1 1 1 1 2 1 2 1 1 1 1   
## 100017079|68-T/A 100018306|21-T/A 100065207|61-C/A 6651674|58-G/A 6661762|25-C/T 100016541|14-A/T 100019240|64-C/A 100022760|39-A/C 6661631|14-G/T 100015984|25-C/T 100020169|39-T/G   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100020171|37-C/T 100020514|46-G/A 100093365|13-T/C 6631375|67-A/T 6651160|63-T/G 6651417|40-A/G 6653272|47-T/C 6661637|58-G/T 6661875|62-G/A 100016327|11-G/T 100017411|17-C/A   
## 1 2 2 1 1 1 1 2 1 1 1   
## 100021938|40-C/A 100104022|29-G/C 6653086|61-G/A 6654063|52-T/C 6661270|57-C/T 6661413|37-C/T 6661571|64-G/A 6662928|6-G/T 6665563|11-G/C 100015347|8-A/G 100015697|17-A/G   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6630379|34-A/G 6651111|37-G/A 6651135|63-T/A 6652080|40-C/G 6653891|42-G/A 6661255|43-T/G 6661262|56-A/G 6661441|11-A/G 100019678|23-G/T 100065386|6-G/C 100082362|41-C/G   
## 1 1 1 1 1 1 1 2 1 1 2   
## 100119892|9-C/T 6650706|34-C/G 6651084|9-T/C 6652828|42-G/A 6653640|66-C/T 6661213|29-A/C 6661501|61-G/T 100020312|34-A/G 100066078|57-C/T 6651216|56-G/C 6651663|16-T/G   
## 2 2 1 1 1 1 1 1 2 1 1   
## 6652291|30-C/A 6661623|16-C/T 6664064|11-C/A 100019069|65-C/T 6629913|31-T/G 6650658|32-T/C 6651643|7-G/A 6651651|36-T/C 6652652|32-C/T 6652781|24-G/A 6652781|64-C/G   
## 1 1 1 2 1 1 1 1 1 1 1   
## 6652958|54-G/C 6661185|61-C/T 6661218|12-C/T 6661232|58-C/T 6662683|28-G/C 6662714|21-A/C 6663024|21-C/T 100016570|44-C/T 100017965|14-G/A 100018649|23-G/A 100021210|28-A/G   
## 1 1 1 1 1 1 1 1 2 1 1   
## 100044629|5-T/A 100065997|37-G/A 100066075|25-C/G 100119599|31-T/C 6633592|39-A/T 6650534|49-T/C 6650535|67-A/T 6651337|9-A/G 6653918|11-A/G 6657564|24-C/T 6661126|11-C/T   
## 2 1 1 1 1 2 1 1 1 1 1   
## 6661428|5-C/T 6661666|46-C/T 6661783|8-T/C 6661798|20-C/T 6661798|28-T/C 6661836|10-G/A 6661836|20-G/C 6661863|56-C/T 6662849|35-T/C 6665679|46-T/G 100093359|29-C/A   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6629858|37-A/T 6643954|6-G/T 6652019|59-G/C 6652746|56-G/T 6652810|45-C/G 6653160|44-G/A 6653239|27-C/T 6653352|54-C/G 6653632|19-G/A 6662822|7-G/A 6664724|62-G/C   
## 1 1 1 1 1 1 1 1 1 1 2   
## 100044710|9-T/G 100093660|28-C/A 6633718|59-C/T 6641748|42-C/A 6658299|7-T/C 6661450|36-G/A 6643586|10-T/G 6643586|9-C/A 6648203|14-A/T 6664350|5-C/T 100106226|9-C/A   
## 2 1 1 1 2 1 1 1 1 1 1   
## 100111464|9-T/C 6643578|11-A/T 6664414|23-C/A 6664432|8-G/T 6643814|11-C/G 6643814|5-G/A 100100648|8-G/T 100103657|7-G/C 100106110|9-A/G 100106239|8-T/G 100109437|5-C/G   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100109437|9-C/G 100110529|5-C/T 100111487|5-T/G 100122090|8-T/A 6649192|5-T/C 6657874|5-G/C 6658144|18-A/T 6662919|11-A/C 6663018|25-T/C 6664273|5-C/A 6664306|8-C/A   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6664893|38-G/C 6664910|11-C/G 6665153|7-A/G 100082484|50-G/T 100118470|9-C/T 6664010|54-C/T 100046106|24-G/T 6666102|8-G/A 6657032|15-C/T 6665215|57-C/T 100018359|44-C/T   
## 1 1 1 1 2 1 1 1 1 1 1   
## 100023139|68-G/T 6664085|47-C/T 6661211|58-C/T 100066559|31-T/C 6663985|50-C/T 6665628|45-T/C 100097039|23-C/G 6665040|44-A/G 100093411|9-A/C 100093413|26-G/C 6634480|31-T/A   
## 1 1 2 1 2 2 1 1 1 1 1   
## 100065820|27-T/C 100065626|5-A/C 100017456|5-A/C 100065031|12-G/A 100090339|7-T/C 6654096|11-C/A 100045278|30-G/C 6650722|8-G/C 100023932|52-G/T 6661186|27-A/G 100066349|48-C/A   
## 1 1 1 1 1 2 1 1 1 1 1   
## 6664781|12-G/A 100018124|53-C/G 100064999|21-G/A 100074314|17-G/A 6661474|58-C/G 6664089|39-C/A 100074315|18-C/T 100109510|37-A/G 100106299|29-A/C 6652532|17-A/G 6666146|37-G/A   
## 1 1 2 1 1 1 1 1 1 1 1   
## 100020687|19-G/A 100017102|43-A/G 100016103|11-C/T 100016936|24-G/C 100065009|15-G/C 100021792|22-G/A 100065064|48-C/T 6651486|23-C/A 100022395|5-G/T 6635620|7-T/G 100021158|56-G/C   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100024001|29-C/A 100065225|30-T/C 100065766|32-C/A 100065871|7-G/C 6657554|17-A/G 100021381|48-A/G 100065073|30-T/C 100065186|6-A/G 100082387|67-G/T 100022890|66-G/A 100023224|41-T/C   
## 1 1 1 1 1 1 1 1 1 2 1   
## 100066151|44-C/A 100065712|39-A/G 100016548|22-A/C 100018316|52-G/A 100018669|51-A/G 100020096|10-G/A 100021832|59-T/C 100045940|24-C/A 100066650|24-A/G 100045116|6-C/T 100112452|57-A/G   
## 1 1 1 1 1 1 1 1 1 2 1   
## 6653883|52-C/G 100021186|32-G/C 100021930|67-G/A 100065300|66-G/T 100082101|62-A/G 100119315|9-G/T 6650840|6-C/G 6664036|6-A/T 100015791|35-A/G 100021993|35-A/T 100065071|26-C/T   
## 1 1 2 1 1 1 1 1 1 1 1   
## 100106305|20-G/C 100020586|49-T/G 100022366|24-T/C 100022982|18-T/C 100102365|9-C/G 100016200|62-T/G 100017620|16-C/T 100018736|57-T/C 100020340|6-T/C 100066082|8-G/T 6663098|31-C/G   
## 1 1 1 1 1 1 1 2 1 1 1   
## 100018726|57-G/T 100019037|42-G/A 100021366|54-C/T 100022220|45-A/G 100066146|14-T/C 100066266|57-C/G 100066574|19-T/C 100016560|7-T/C 100066037|49-C/G 100121195|35-C/G 100018616|49-T/G   
## 1 1 2 1 1 1 1 1 1 1 1   
## 100066663|58-T/C 100118142|5-T/C 6665806|57-G/A 100018844|30-C/T 100091301|63-G/T 100096922|11-G/T 6651543|26-C/T 100016510|41-T/A 100018353|22-G/T 100019853|68-A/T 100021078|39-A/T   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100021925|13-A/G 100065479|51-A/G 100066412|14-T/C 100091301|22-C/G 100019195|66-T/A 100023208|34-G/A 100065057|21-C/T 100065426|35-C/A 100073631|7-G/C 100016006|34-T/G 100017176|29-G/A   
## 1 1 1 1 1 1 1 1 2 1 2   
## 100018612|5-A/C 100020218|34-A/C 100065408|22-T/G 100065476|64-G/A 100065761|7-G/A 6632042|19-G/C 100015587|20-C/A 100016037|24-A/G 100021787|68-A/C 100022942|14-C/G 100066550|58-G/A   
## 2 1 1 1 1 1 1 1 2 1 1   
## 100082539|7-G/A 6650594|30-T/G 6653546|21-T/C 6664281|14-A/T 100016076|49-A/C 100022081|49-G/A 100022274|36-C/A 100116482|57-T/A 100121512|34-G/C 100017777|61-G/A 100064625|41-A/G   
## 1 2 1 2 1 1 1 2 1 1 1   
## 100064874|12-T/C 100106306|45-G/A 100106306|65-G/A 100021587|57-C/T 100065160|65-G/T 100073403|34-A/C 100082633|51-A/G 100097045|48-T/C 6652651|47-T/A 6661761|37-C/T 100017728|53-A/C   
## 1 1 1 2 1 1 1 1 1 1 1   
## 100065286|5-A/C 100082197|10-C/T 6633952|10-G/C 6657904|18-T/C 100065579|38-A/C 6661858|20-C/A 100019471|14-G/A 100044832|16-G/T 100065848|33-G/A 100066117|37-G/T 100112452|34-A/G   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6630404|40-A/C 100103994|35-G/T 100017343|6-T/C 100064738|40-C/G 100064746|17-G/A 100074010|27-G/C 6631936|55-T/C 6661620|58-C/G 100016884|51-C/A 100065351|47-C/G 6631698|7-C/G   
## 1 1 1 2 1 1 1 2 1 1 1   
## 6652538|34-T/C 6657259|24-G/A 100016745|16-T/C 100065233|43-G/A 6630611|19-A/C 6652270|62-C/G 6652729|29-T/G 100020530|29-C/A 6630408|13-G/T 6630626|34-A/T 6631766|58-C/A   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6633539|7-G/A 6634322|14-T/G 6652458|12-A/T 6653006|66-G/A 6653115|48-T/A 6663957|45-C/T 100066473|39-A/G 6650554|32-A/G 6657465|23-T/A 6663949|9-G/A 100020033|33-A/C   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100082315|13-G/A 6629848|65-C/G 6630880|24-C/G 6650849|38-G/A 6650881|15-G/A 6651487|20-C/T 6651826|47-T/A 6652855|33-G/T 6657563|28-T/G 6657811|15-G/A 6658667|25-T/G   
## 2 2 1 1 1 1 2 1 1 1 1   
## 6662907|9-T/A 6665143|45-A/G 100021831|19-T/A 100045184|5-G/C 100065651|20-A/C 100066434|64-T/A 100066660|33-T/C 6633749|29-T/A 6635481|20-A/G 6650535|47-C/A 6652320|27-G/C   
## 1 1 1 2 1 1 1 1 1 1 1   
## 6652796|29-G/C 6654065|42-C/G 6657294|51-C/A 6658085|11-A/G 6661346|29-T/A 6661679|17-C/T 6662799|12-C/A 6662831|22-C/T 6663021|23-A/G 100085932|36-G/C 6630269|58-C/T   
## 2 1 1 1 2 1 1 1 1 2 1   
## 6630995|13-C/T 6633153|34-C/T 6644233|38-G/T 6650943|57-C/G 6650961|27-T/G 6651177|55-C/G 6651864|18-T/C 6652465|10-A/T 6652776|7-C/T 6654017|47-C/T 6657683|10-G/C   
## 1 1 1 1 2 1 1 2 1 2 1   
## 6657925|11-T/C 6658404|12-T/G 6664915|43-G/T 100045721|8-T/A 100082404|10-G/T 100093333|22-G/A 6633054|40-T/A 6642765|20-C/T 6643196|21-C/G 6653359|24-C/T 6658471|31-G/C   
## 1 1 1 1 1 1 2 1 1 1 2   
## 100065416|12-T/C 6661414|26-T/C 6664306|12-G/A 6665409|5-T/A 6642901|10-G/A 100108705|8-G/A 6665151|5-A/T 100122090|6-T/A 6662690|20-C/T 100016003|7-T/A 100016649|43-T/C   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100019431|29-C/T 100023959|16-T/C 100024997|62-T/G 100044851|16-G/C 100064658|7-C/T 100064682|49-G/A 100064707|51-G/A 100064714|52-G/A 100064753|29-A/G 100064840|30-G/A 100065000|48-T/C   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100065025|5-A/G 100065087|14-G/A 100065157|40-T/G 100065238|55-G/T 100065368|11-G/C 100065400|61-A/G 100065428|33-G/C 100065497|38-G/T 100065538|49-T/G 100065597|12-A/T 100065605|63-C/A   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100065647|9-T/C 100065669|36-A/C 100065706|45-G/A 100065736|5-A/G 100065739|9-C/T 100065933|35-G/A 100066025|19-T/C 100066134|25-T/C 100066259|18-C/T 100066274|66-A/G 100066332|57-T/A   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100066410|32-G/A 100066624|60-C/G 100082151|41-C/A 100082232|23-T/G 100082297|57-C/T 100082311|43-C/T 100082409|16-T/A 100082418|7-T/C 100082564|6-T/C 100082633|21-G/A 100086276|23-G/T   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100086585|5-G/T 100091075|52-C/T 100091130|54-T/C 100093549|30-T/C 100098502|34-A/T 100101042|48-T/G 100121195|12-A/G 100121196|29-T/C 100121197|43-C/G 100121199|47-T/A 100121200|51-T/C   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100122496|35-G/A 6630263|32-T/A 6630513|10-G/C 6631038|8-T/C 6631621|56-C/G 6633643|35-C/T 6634127|43-A/G 6635254|35-A/C 6641856|17-G/T 6642355|17-A/G 6650389|35-G/A   
## 1 1 1 1 1 1 2 1 1 1 1   
## 6650444|8-A/G 6650519|63-A/G 6650553|61-C/G 6650587|17-C/A 6650591|24-A/G 6650676|68-C/T 6650899|7-G/A 6650902|63-C/T 6650919|10-A/G 6651039|12-G/A 6651054|54-C/T   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6651207|33-A/G 6651431|65-C/G 6651512|39-C/A 6651635|32-C/T 100065262|63-T/A 6651763|26-G/A 6651874|8-T/A 6651879|12-C/T 6652022|6-C/T 100065511|46-G/C 6652174|20-A/T   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6652193|50-G/A 6652287|47-C/A 6652538|35-G/A 6652743|25-G/A 100065924|8-G/T 6652898|57-G/T 6653034|66-G/A 6653037|45-C/G 6653161|37-C/T 6653161|51-C/G 6653240|43-A/G   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6653383|7-T/C 6653394|26-G/A 6653420|30-G/T 6653514|60-C/G 6653521|20-A/T 6653525|7-A/G 6653571|21-G/T 6653574|48-G/T 6653793|20-C/T 6653861|28-C/G 6653990|38-G/A   
## 1 1 1 1 1 1 1 1 1 1 2   
## 6654094|56-G/T 6654108|11-A/G 6657811|16-C/T 6658021|8-T/G 6658173|44-C/A 6658487|25-C/A 6658616|17-G/T 6661180|50-T/C 6661214|14-C/G 6661229|60-G/A 6661236|33-G/A   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6661487|18-A/G 6661524|9-G/A 6661550|30-T/C 100082471|28-C/T 6661631|29-G/C 100082491|60-C/T 6661651|25-G/A 100082562|68-C/A 6661778|27-A/G 6661827|57-C/G 6661838|61-A/T   
## 1 1 2 1 1 1 1 1 1 2 1   
## 6661845|30-A/G 6662631|42-G/A 6662646|5-A/C 6662657|27-G/A 6662765|9-A/G 6662767|43-T/A 6662797|33-T/C 6663018|35-C/G 6663941|10-G/C 6663953|25-A/G 6663990|56-G/T   
## 1 1 1 1 1 1 1 1 1 1 2   
## 6664007|22-C/A 6664018|43-T/C 100091330|60-C/T 6664739|19-C/T 6665051|50-C/A 6665130|20-T/A 6665130|26-T/A 6665131|16-G/T 100109477|22-G/A 6665563|54-C/T 6665566|58-T/C   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6665567|59-A/G 6665600|6-T/C 6665637|6-G/C 6665638|50-G/C 6665992|26-C/T 6666146|48-T/C   
## 1 1 1 1 1 1   
##   
## $pop.nall  
## Bullen Range Kambah Pool Lanyon Murramore Nerreman Tharwa Sandwash   
## 7177 7130 7024 7059 7365 7465   
##   
## $NA.perc  
## [1] 22.73779  
##   
## $Hobs  
## 6661549|60-C/T 6650588|15-C/T 6661794|21-A/G 6664081|63-G/A 6653885|30-A/G 6661177|64-C/T 6661457|52-C/T 6653401|39-G/A 6657572|30-T/A 6661566|34-A/G 6663962|65-C/T   
## 0.895833333 0.695238095 0.594339623 0.593301435 0.606965174 0.628959276 0.856000000 0.616071429 0.600917431 0.602739726 0.648648649   
## 6665217|18-A/G 6661207|60-A/C 6661398|51-C/T 6651899|27-T/A 6653020|28-A/C 6653704|64-T/G 6650504|59-T/C 6652003|38-G/C 6661105|11-G/T 6661432|29-C/A 6652162|44-A/T   
## 0.604790419 0.603375527 0.679775281 0.634782609 0.600000000 0.596566524 0.615023474 0.623456790 0.612903226 0.705583756 0.603305785   
## 6653798|57-C/T 6653191|40-A/G 6664876|31-G/A 6661163|31-T/C 6652675|16-G/T 6652288|45-C/T 6650933|66-G/A 6653948|58-T/C 6663083|49-G/A 6662726|45-A/G 6664756|9-C/T   
## 0.669902913 0.594594595 0.594827586 0.729508197 0.629139073 0.658730159 0.606837607 0.568306011 0.565022422 0.703703704 0.646017699   
## 6661688|18-A/G 6666128|43-C/G 6652433|13-A/G 6652352|5-T/C 6664270|14-C/A 6651416|17-C/T 6664751|11-T/A 6657734|47-A/G 6663081|18-A/G 6651148|64-A/T 6656916|22-T/C   
## 0.680555556 0.588477366 0.595744681 0.573033708 0.606694561 0.645669291 0.581589958 0.578947368 0.586826347 0.600823045 0.568965517   
## 6653573|49-T/C 6661198|22-T/G 6665027|17-A/T 6664900|6-C/T 6650826|66-G/A 6653766|40-A/C 6665588|8-C/T 6652573|8-C/A 6652700|14-C/G 6664334|9-A/G 6651772|17-A/T   
## 0.632258065 0.575107296 0.591666667 0.576744186 0.658119658 0.587500000 0.604166667 0.604938272 0.595959596 0.591489362 0.579166667   
## 6651828|36-G/A 6650476|13-A/C 6651474|15-T/C 6652836|30-C/T 6653346|25-C/A 6658563|22-C/T 6661870|10-G/T 6657169|37-T/C 6661569|7-A/G 6652342|46-G/A 6656937|18-C/T   
## 0.669811321 0.563559322 0.574712644 0.563318777 0.595555556 0.587155963 0.573839662 0.562043796 0.639344262 0.632812500 0.618421053   
## 6661537|56-G/A 6664008|14-G/A 6651473|53-G/A 6661884|29-T/A 6662691|24-C/T 6661181|61-C/T 6651798|39-C/A 6661610|46-T/C 6653512|60-C/G 6651413|19-C/A 6651436|18-C/T   
## 0.598290598 0.701657459 0.569230769 0.563876652 0.578512397 0.587628866 0.616161616 0.551282051 0.556962025 0.533333333 0.644736842   
## 6663093|22-C/A 6652854|20-T/C 6657907|22-C/T 6664719|5-A/G 6651857|34-G/T 6658182|11-G/A 6661203|33-G/T 100066381|65-T/C 6661291|28-A/C 6651404|67-A/G 6661583|6-T/C   
## 0.596774194 0.549763033 0.555045872 0.571428571 0.569620253 0.610576923 0.558333333 0.585227273 0.546666667 0.584210526 0.636363636   
## 6653019|13-C/T 6661633|39-G/T 6653539|14-G/C 6652507|49-A/G 6662661|7-T/C 6661859|57-A/G 6661395|60-C/T 6661690|43-G/A 6653303|26-C/T 6650697|6-C/A 6661748|26-C/T   
## 0.560975610 0.670454545 0.568750000 0.513157895 0.588235294 0.572519084 0.784313725 0.523605150 0.570312500 0.562211982 0.593750000   
## 6661276|34-A/G 6651590|59-C/G 6661435|48-G/A 6664012|53-A/G 6651071|8-C/T 6661174|27-G/A 6657901|34-G/A 6661288|56-T/C 6664895|15-G/A 6665065|54-A/G 6653483|52-C/T   
## 0.557077626 0.563981043 0.692307692 0.560344828 0.545833333 0.598591549 0.554502370 0.553571429 0.611111111 0.587962963 0.544378698   
## 6652822|57-G/A 100065688|55-A/G 6661405|37-G/T 6661817|33-A/G 6651443|47-G/T 6651921|15-T/A 6654090|16-G/A 6653899|53-A/G 6661211|62-G/A 6652984|32-G/A 6661495|42-T/C   
## 0.556291391 0.632075472 0.548936170 0.565000000 0.547325103 0.637931034 0.588709677 0.551724138 0.776397516 0.529661017 0.512820513   
## 6650679|43-C/T 6661246|33-G/A 6653043|54-C/G 6651254|12-A/T 6653789|32-G/T 6650988|24-G/A 6650862|68-C/A 6653541|8-A/G 6662900|30-G/A 6653618|37-G/A 6664721|14-C/T   
## 0.635514019 0.509009009 0.534979424 0.535087719 0.533653846 0.551569507 0.603305785 0.511210762 0.536697248 0.553672316 0.537878788   
## 6652395|48-C/T 6661842|33-T/A 6661739|54-G/A 6652644|26-G/A 6652332|20-T/C 6651976|25-G/A 6661113|14-C/T 6661301|20-G/A 6662986|27-C/T 6653529|7-G/A 6651972|24-A/G   
## 0.523364486 0.534979424 0.526315789 0.525641026 0.516587678 0.530701754 0.663551402 0.474747475 0.552147239 0.525821596 0.497872340   
## 6652901|58-C/T 6653167|32-C/T 6652763|59-G/A 6651610|56-G/C 6661486|27-C/T 6664344|37-A/G 6661743|17-G/A 6651212|18-A/G 6651054|64-T/A 6653313|42-A/G 6652640|45-C/A   
## 0.462500000 0.591304348 0.546255507 0.525000000 0.651162791 0.542168675 0.519736842 0.568862275 0.606965174 0.504545455 0.500000000   
## 6653127|48-G/A 6652179|62-G/A 6664422|18-A/G 6661732|8-C/T 6658587|26-G/A 6661161|53-A/C 6657089|25-C/T 6650998|9-A/T 6652379|23-G/C 6652823|50-C/A 6653209|28-G/C   
## 0.563380282 0.523605150 0.532934132 0.508333333 0.551282051 0.506382979 0.578231293 0.502057613 0.478991597 0.550387597 0.566666667   
## 6664750|24-C/T 6666098|18-G/A 6664416|28-A/G 6661208|26-A/T 100017494|26-T/C 6657426|10-G/T 6650467|17-T/C 6661591|23-T/C 6661615|53-A/G 6651689|52-C/T 100093282|6-C/T   
## 0.523206751 0.513513514 0.468750000 0.523437500 0.518072289 0.485232068 0.517006803 0.506172840 0.508620690 0.508875740 0.511627907   
## 6651044|31-C/T 6663926|8-G/A 6661122|39-C/T 6653015|45-G/T 6651960|46-A/G 6658395|10-A/G 6664288|7-C/G 6651937|12-G/T 6661119|32-T/C 6653567|68-C/T 6657105|21-A/G   
## 0.480176211 0.692307692 0.773333333 0.509259259 0.488584475 0.467661692 0.500000000 0.480519481 0.513761468 0.490990991 0.485849057   
## 6653958|12-C/T 6664417|17-G/A 6653929|22-G/A 6653560|40-C/T 6651307|58-C/T 6651918|7-T/C 6652335|27-T/C 6652403|61-A/C 6661676|25-C/T 6657686|15-A/G 6661180|15-G/A   
## 0.480263158 0.518987342 0.493421053 0.497925311 0.487500000 0.503267974 0.491803279 0.485355649 0.489795918 0.527272727 0.553398058   
## 6664065|56-A/T 6662654|14-C/T 6661258|19-T/G 6661326|21-G/T 6661503|51-G/A 6665677|54-T/C 6651345|67-A/G 6653158|39-C/T 6661434|33-C/T 6650700|61-G/A 6665573|50-G/T   
## 0.515625000 0.564885496 0.502145923 0.483091787 0.480000000 0.462184874 0.431578947 0.520000000 0.476793249 0.494382022 0.460937500   
## 100103686|15-C/T 6661407|28-A/T 6662956|24-T/G 6653198|44-C/T 100119886|12-A/G 6653976|22-T/C 6661123|44-T/C 6661423|44-C/T 6661694|9-T/C 6653208|48-G/A 6661587|35-T/C   
## 0.647619048 0.488687783 0.487603306 0.547368421 0.453744493 0.448275862 0.482758621 0.547619048 0.482300885 0.507042254 0.402439024   
## 6653932|10-C/T 6657861|14-G/A 6664287|35-C/T 6653108|33-A/G 6650863|33-C/T 6653166|35-T/C 6652001|24-A/G 6657913|25-C/G 100109898|15-G/A 6661240|65-T/A 6661268|13-G/A   
## 0.398058252 0.497560976 0.549295775 0.469483568 0.466666667 0.481707317 0.468085106 0.437768240 0.461883408 0.463414634 0.533834586   
## 6653580|43-G/T 6657145|22-C/A 6661660|20-C/T 6652645|41-C/T 6651100|28-C/T 6661548|20-A/G 6657725|32-C/T 6652908|9-A/T 6661838|60-T/G 6652562|28-G/A 6654077|33-C/T   
## 0.452674897 0.451612903 0.450216450 0.418918919 0.437125749 0.623655914 0.530434783 0.444444444 0.454935622 0.521739130 0.445833333   
## 6661761|38-G/A 6658102|52-C/T 6657350|31-T/A 6651178|33-C/T 6661253|38-T/C 100104030|16-C/A 6664895|24-C/A 6653522|21-A/G 6661899|11-A/G 6650883|48-C/T 6661607|53-C/G   
## 0.612244898 0.491124260 0.475138122 0.425000000 0.425233645 0.474654378 0.458333333 0.500000000 0.546762590 0.443925234 0.444444444   
## 6654004|30-T/A 6653722|5-T/G 6654003|26-C/A 6652045|5-C/T 6658305|27-T/C 6657714|46-T/C 6661603|40-G/C 6650949|5-A/T 6664725|29-A/G 6657697|38-A/G 6661471|62-C/G   
## 0.422018349 0.417777778 0.442396313 0.500000000 0.491803279 0.461538462 0.439655172 0.398340249 0.433962264 0.371980676 0.464912281   
## 6661765|40-G/A 6661481|66-A/C 6653282|53-T/C 6652110|26-C/T 6652196|51-C/T 6652944|56-G/A 6658191|17-C/G 6661286|15-G/A 6653684|7-T/C 6653203|66-A/G 6661751|44-T/G   
## 0.406113537 0.431192661 0.428571429 0.460937500 0.420289855 0.521367521 0.440594059 0.411214953 0.457516340 0.411214953 0.413043478   
## 6661711|66-G/A 6650674|36-C/T 6653554|14-G/A 6651804|55-G/C 6664076|29-C/A 6663980|50-G/A 100102214|5-C/T 6653379|50-A/G 6651865|33-T/G 6661260|22-A/T 6651954|62-T/C   
## 0.376068376 0.412500000 0.414634146 0.418750000 0.429864253 0.410041841 0.493243243 0.403361345 0.384297521 0.385281385 0.410377358   
## 6656942|42-G/A 6652635|57-G/A 6661149|41-C/T 6650632|65-G/A 6650568|31-G/C 6650938|6-C/T 6658511|21-A/C 6654094|65-T/C 6653106|31-C/T 6661381|44-A/G 6652779|66-A/G   
## 0.361702128 0.410596026 0.414414414 0.387755102 0.374485597 0.376744186 0.427966102 0.364705882 0.392070485 0.412087912 0.369158879   
## 6650898|47-G/A 6657805|7-A/G 6661727|46-C/T 6662592|9-C/T 6661085|13-C/T 6661239|45-A/G 6665990|9-G/C 6650977|39-G/A 6652000|22-C/T 6658391|30-C/T 6661184|41-C/G   
## 0.364928910 0.416243655 0.383783784 0.415929204 0.375000000 0.448598131 0.663865546 0.366071429 0.371559633 0.388646288 0.367965368   
## 6651519|67-C/G 6652011|54-C/T 6661376|29-C/T 6650669|9-A/G 100073501|45-A/G 6651742|50-G/A 6653416|29-C/T 6661643|49-G/A 6650635|62-G/A 6651529|9-C/T 6652878|58-G/T   
## 0.379166667 0.396551724 0.346153846 0.387234043 0.481481481 0.374485597 0.415094340 0.365740741 0.356223176 0.371681416 0.455284553   
## 6665222|67-C/A 6661481|18-C/T 6665990|48-C/G 6661216|67-C/T 6663955|62-T/C 6652246|10-G/A 6661167|12-T/A 6661710|53-G/A 6664085|17-G/T 6661652|62-A/C 6657045|15-A/G   
## 0.373949580 0.549295775 0.648854962 0.335329341 0.349056604 0.299065421 0.353909465 0.379888268 0.455089820 0.377682403 0.472727273   
## 6661805|6-C/G 6652339|26-G/T 6661277|47-G/A 6661335|49-T/G 6652597|28-C/T 6661737|51-G/T 6664079|62-A/T 6661334|49-G/T 6661187|52-C/T 6653800|24-G/A 6665242|22-G/A   
## 0.364055300 0.387640449 0.375000000 0.369158879 0.341317365 0.336206897 0.358024691 0.370558376 0.389221557 0.318385650 0.394736842   
## 6651247|35-C/G 6653693|39-C/A 6661436|12-T/C 6650629|61-C/A 6653328|49-C/T 6650603|26-A/G 6651494|48-G/A 6652060|23-C/T 6657933|10-C/T 6651038|40-T/C 6664362|28-C/T   
## 0.361344538 0.555555556 0.324200913 0.366515837 0.468468468 0.378571429 0.380281690 0.348936170 0.495145631 0.319327731 0.341317365   
## 6651571|67-C/T 6664050|15-A/G 6652084|30-C/T 6661846|32-C/T 6653638|33-A/C 6657305|12-A/C 6663909|36-C/T 6661305|58-A/G 6657606|35-G/A 6661206|19-A/C 6657339|6-G/A   
## 0.353293413 0.440366972 0.331877729 0.350877193 0.314049587 0.350427350 0.358490566 0.283653846 0.379310345 0.308724832 0.379844961   
## 6657292|22-T/A 6661485|59-A/G 6650475|43-C/T 6652083|41-G/A 6663998|25-T/C 6661115|22-T/G 100102214|35-G/A 6651822|26-T/C 6653698|49-A/T 6651072|34-A/C 6661221|40-G/A   
## 0.318181818 0.337016575 0.392523364 0.320833333 0.341614907 0.321888412 0.362068966 0.361445783 0.324786325 0.343750000 0.310043668   
## 6664084|45-C/T 6664046|47-A/G 6664412|13-G/A 6652764|38-C/T 6652859|41-C/T 6662842|43-C/T 6653459|28-T/C 6652467|20-G/T 6658444|32-T/G 6663948|54-G/A 6661848|65-T/G   
## 0.325396825 0.352941176 0.326530612 0.333333333 0.310810811 0.420560748 0.299516908 0.315126050 0.323651452 0.311004785 0.324074074   
## 6661692|19-C/T 6661666|47-C/A 6657189|5-T/A 6663931|25-C/T 6661747|23-A/G 6664777|21-T/G 6657196|41-G/A 6662626|20-G/C 6661431|59-G/A 6651183|67-C/T 100020564|19-A/G   
## 0.404255319 0.266375546 0.382812500 0.404109589 0.304932735 0.285123967 0.291666667 0.310344828 0.286343612 0.323353293 0.255813953   
## 6658409|20-A/C 6661097|28-C/T 6657230|7-A/G 6661119|56-G/A 6661554|36-A/G 6650618|9-G/C 6653999|19-C/T 6663991|5-C/T 6652381|42-A/T 6651915|13-C/T 6662884|19-C/T   
## 0.292181070 0.329341317 0.314720812 0.324786325 0.316326531 0.287610619 0.231578947 0.310810811 0.286363636 0.302439024 0.276595745   
## 6664330|6-A/G 6658057|21-T/G 6664271|29-T/G 6658345|31-A/G 6664281|18-T/A 6651466|33-G/A 6651085|26-C/T 6653605|24-T/C 100044679|44-A/G 100115090|8-A/G 6661464|30-G/T   
## 0.273127753 0.293388430 0.295652174 0.280487805 0.277056277 0.265765766 0.281250000 0.283505155 0.302197802 0.246636771 0.283783784   
## 6650884|45-C/T 6661861|5-T/C 6651870|51-T/C 6650549|15-C/T 6662909|15-A/C 6661345|10-T/C 100096951|40-T/A 6651934|39-C/A 6653561|20-A/G 6663982|40-G/A 6661677|22-C/T   
## 0.325396825 0.264044944 0.293859649 0.276190476 0.342857143 0.252212389 0.287610619 0.282828283 0.284615385 0.276315789 0.261467890   
## 6661705|29-C/G 6661413|63-C/T 100065757|18-C/G 6661266|30-A/G 6661310|64-T/C 6661349|63-A/G 100116458|50-G/A 6665749|7-G/A 6652731|67-C/G 6653078|31-C/T 6653889|13-C/T   
## 0.287081340 0.266666667 0.238095238 0.303482587 0.298429319 0.259615385 0.242798354 0.259433962 0.262500000 0.233480176 0.268292683   
## 6650390|62-T/A 6665512|36-G/A 6653694|33-C/T 6661130|57-A/C 6650397|43-A/G 6652725|65-G/A 6664898|31-T/A 6664740|45-G/A 6661717|60-G/A 6661866|27-T/C 6661803|57-G/C   
## 0.236842105 0.292452830 0.254166667 0.251028807 0.272727273 0.250000000 0.243093923 0.226804124 0.244541485 0.297520661 0.216494845   
## 6653812|35-T/C 6653634|39-G/A 6653421|13-A/G 6653117|34-C/G 6652078|22-T/A 6663918|8-C/G 6651738|38-G/C 100073717|6-G/A 6662614|36-C/T 6663009|7-C/T 6665630|52-T/C   
## 0.256097561 0.223214286 0.229787234 0.228310502 0.235537190 0.226337449 0.234567901 0.209302326 0.250000000 0.257575758 0.247422680   
## 6661118|33-G/A 6651890|7-G/A 6650967|42-C/A 6661605|18-C/T 6651286|19-T/A 6653631|43-C/T 6661436|18-C/T 6661386|46-C/T 6656991|15-A/G 6658489|9-C/T 100018527|6-C/T   
## 0.239819005 0.220657277 0.230452675 0.289473684 0.218340611 0.261682243 0.226666667 0.227027027 0.290909091 0.256637168 0.204651163   
## 6663957|56-G/A 6653138|31-G/A 6653361|55-G/A 6662597|30-A/G 6653013|37-T/C 6664770|35-T/G 100018912|62-G/T 6650463|42-T/A 6664775|59-A/G 6651694|29-A/T 6664064|49-A/G   
## 0.230769231 0.198275862 0.196428571 0.194029851 0.248175182 0.213333333 0.197530864 0.205761317 0.176795580 0.180555556 0.207048458   
## 6652918|18-G/A 6651840|35-G/A 6651055|13-G/A 6653477|22-A/T 6661719|26-T/A 6661828|67-T/A 6654030|47-G/A 6665066|58-G/C 6653260|47-G/T 6650860|49-G/A 6654039|20-G/A   
## 0.202702703 0.212643678 0.242857143 0.196652720 0.226744186 0.228070175 0.175355450 0.166666667 0.185185185 0.197309417 0.186868687   
## 6665336|52-C/T 6650985|20-G/A 6665243|28-G/C 6662888|44-A/C 6665236|63-T/C 6663983|17-C/T 100066027|14-A/T 6653607|5-T/C 6661170|39-C/T 6661781|60-G/A 100073694|44-G/A   
## 0.218934911 0.171717172 0.166666667 0.202479339 0.197530864 0.181102362 0.182203390 0.196629213 0.270000000 0.175438596 0.183574879   
## 6663947|55-T/C 6661831|54-T/C 6652266|47-T/C 6663080|20-G/A 6665672|66-T/A 6658491|28-C/A 6661680|19-G/T 6662595|39-C/T 6665990|6-A/T 6657377|47-C/T 6661828|68-T/A   
## 0.191616766 0.173728814 0.201388889 0.161616162 0.177215190 0.161434978 0.156250000 0.230000000 0.166666667 0.133858268 0.185185185   
## 6651958|27-A/G 6653919|17-C/T 100021874|46-A/G 100016068|62-T/A 6665489|31-C/T 100082278|57-C/T 6651291|51-G/T 6653890|21-C/T 6663954|56-C/A 100021943|40-T/C 6652214|62-T/A   
## 0.192771084 0.204724409 0.136986301 0.153508772 0.154185022 0.165048544 0.155172414 0.148717949 0.151079137 0.151260504 0.140350877   
## 100022950|33-A/C 6651253|68-C/T 6650643|36-C/A 6652860|42-G/A 6664014|62-G/A 6661808|48-C/T 6658138|27-A/C 100017513|60-C/T 6661261|32-C/T 6652821|67-C/T 6666304|10-A/T   
## 0.148760331 0.171171171 0.142857143 0.140425532 0.158798283 0.158878505 0.156378601 0.137931034 0.147826087 0.137724551 0.149659864   
## 6665455|61-G/T 100082682|51-T/C 6653384|6-A/G 100023325|25-A/G 100101067|36-C/T 6651685|49-T/A 6653586|60-T/C 6666177|13-A/T 6652540|8-G/T 6651209|49-A/G 100066244|11-A/T   
## 0.142857143 0.131578947 0.136563877 0.057971014 0.143750000 0.148648649 0.134529148 0.144000000 0.169230769 0.135964912 0.148760331   
## 6652377|20-G/A 6661200|23-T/G 100064741|45-G/C 6658040|18-T/A 6653702|48-T/C 6652310|50-C/T 100080867|16-C/T 6665067|64-C/A 6653076|28-C/T 6653648|6-G/A 6651991|67-A/T   
## 0.131313131 0.128099174 0.125000000 0.119658120 0.112994350 0.139664804 0.145631068 0.129032258 0.107784431 0.139534884 0.127192982   
## 6661634|15-T/G 6664050|24-G/C 6652868|58-A/G 6661564|13-A/G 6650547|43-C/G 100064827|8-G/C 6650552|61-G/A 6661602|25-T/C 6661456|61-G/A 6651197|66-T/A 6652994|27-C/T   
## 0.116071429 0.129186603 0.120930233 0.106382979 0.127572016 0.125748503 0.095505618 0.117283951 0.123595506 0.092827004 0.073619632   
## 6661887|13-A/T 6661310|58-T/C 6650745|19-T/G 100017712|8-T/A 6651911|52-G/A 6650417|11-A/C 6652308|53-T/G 6661174|36-C/T 6651243|32-G/A 6662595|43-G/A 6661238|17-G/T   
## 0.144000000 0.116022099 0.107296137 0.096638655 0.092783505 0.094650206 0.078838174 0.112500000 0.088983051 0.107296137 0.104265403   
## 6653091|46-C/G 6651733|50-G/A 6661209|58-G/A 6662998|47-T/C 6650989|12-C/T 6661260|32-A/C 6664754|18-T/C 6653705|22-C/A 6651897|14-A/G 6661468|27-G/A 6662877|32-C/T   
## 0.097674419 0.094650206 0.138888889 0.111111111 0.118421053 0.089743590 0.088888889 0.096774194 0.085585586 0.081250000 0.069565217   
## 6652769|52-G/A 6657468|35-T/C 6664040|37-G/T 6654036|20-C/G 6652581|49-T/C 6663926|28-C/T 6650558|18-A/C 6650767|11-C/T 6650470|54-G/A 6652008|64-T/A 100066158|21-G/A   
## 0.061855670 0.067073171 0.081545064 0.077586207 0.064516129 0.083832335 0.057416268 0.066666667 0.081339713 0.050847458 0.079646018   
## 6661900|39-T/C 100022191|13-A/T 6665045|39-A/T 6652766|56-A/G 6652767|24-T/A 6651271|49-G/A 6661314|26-G/A 6653619|65-T/C 100116986|5-T/C 100116987|6-T/G 6653081|42-A/G   
## 0.073770492 0.096000000 0.071428571 0.059090909 0.053921569 0.062780269 0.064102564 0.051136364 0.067415730 0.066666667 0.054545455   
## 6664720|40-A/G 6652605|24-T/C 6661530|52-T/G 6653380|28-A/G 6661534|38-G/A 100100705|17-C/A 6661784|26-C/G 6653485|62-T/C 6658269|15-G/A 6657310|18-C/G 6653319|56-C/A   
## 0.058558559 0.041237113 0.044052863 0.031250000 0.040000000 0.037735849 0.061320755 0.033018868 0.031390135 0.026455026 0.043165468   
## 6662895|13-G/A 6650569|12-C/A 100018011|33-A/T 6653025|64-G/A 100020592|58-C/G 6651157|23-G/A 6652995|7-T/C 6664385|5-T/G 100080823|15-G/A 100098565|15-A/G 6662594|6-A/G   
## 0.034013605 0.044444444 0.055118110 0.024691358 0.037914692 0.019417476 0.019607843 0.017777778 0.017937220 0.036363636 0.026431718   
## 6662608|14-T/C 100111015|17-T/A 6651630|13-G/A 100015677|15-G/A 100021199|37-T/C 6651723|7-T/C 6651946|25-T/C 6652107|59-C/T 6662703|23-A/G 6656926|24-G/A 6662639|8-G/T   
## 0.028301887 0.036036036 0.020408163 0.022421525 0.007299270 0.013071895 0.024539877 0.018181818 0.022222222 0.022421525 0.023076923   
## 6644134|13-A/C 100015999|30-C/T 6651264|67-C/T 100082192|45-T/C 6658187|20-A/G 6658030|16-T/G 6664447|43-A/G 6657081|38-A/G 6657519|27-C/A 6657646|21-G/A 6658294|22-A/G   
## 0.038135593 0.039301310 0.023952096 0.017543860 0.015384615 0.012500000 0.030303030 0.004830918 0.012605042 0.035398230 0.019047619   
## 6663106|39-T/C 6665877|8-T/C 6657134|12-C/T 6662930|5-G/T 100073664|24-C/A 100093267|33-A/T 6665045|33-A/T 6653064|39-T/C 6652028|11-T/C 6652053|54-A/G 6661327|40-C/T   
## 0.016393443 0.013888889 0.026315789 0.018518519 0.010101010 0.031496063 0.032258065 0.008196721 0.013452915 0.016949153 0.029045643   
## 100020810|55-A/G 6661141|23-C/T 100018274|35-A/G 100020489|64-T/C 100021048|30-T/C 100021494|48-T/C 100015195|36-C/T 6652099|5-C/T 100019298|65-T/C 100020731|53-A/G 100065190|44-T/C   
## 0.018867925 0.012765957 0.028037383 0.015228426 0.016393443 0.011299435 0.012500000 0.013513514 0.017045455 0.021551724 0.012552301   
## 6651997|59-A/G 6658436|20-C/T 6650975|51-G/A 6657565|7-G/A 6658077|34-T/C 6652620|41-C/T 6657312|42-G/A 6657368|39-G/A 6657412|9-T/G 6657526|48-C/T 6658588|11-C/T   
## 0.005524862 0.012987013 0.013333333 0.014084507 0.005076142 0.013513514 0.008510638 0.008928571 0.016666667 0.009345794 0.009523810   
## 6662668|7-A/T 6662868|15-G/A 6663029|17-G/A 6664446|24-T/C 100086116|7-C/A 100093344|14-G/C 100098451|30-G/T 100104877|27-G/A 6656935|13-T/G 6657240|11-C/T 6657387|17-A/T   
## 0.012500000 0.017937220 0.018987342 0.020618557 0.012605042 0.006250000 0.012500000 0.012500000 0.010309278 0.014285714 0.012500000   
## 6658126|24-C/G 6662893|11-C/G 100098564|20-T/C 100108662|16-G/A 100090375|13-A/C 6654111|67-T/C 100018022|29-C/T 100018793|30-G/A 100019919|22-G/A 100020224|39-A/G 100021950|26-G/A   
## 0.012987013 0.014018692 0.004739336 0.008064516 0.025423729 0.000000000 0.018867925 0.022935780 0.019736842 0.008810573 0.025641026   
## 100065898|33-G/A 100016342|65-A/G 6653141|47-T/A 100020182|5-A/G 100017739|16-A/G 100019425|22-T/C 100019993|60-T/C 100020111|24-T/C 100022090|7-C/A 100020509|41-C/T 100019969|57-T/C   
## 0.018018018 0.029702970 0.021276596 0.009009009 0.004424779 0.008620690 0.008968610 0.010309278 0.004201681 0.009009009 0.014388489   
## 100021750|68-T/G 6650682|7-C/T 100073640|6-A/G 6658242|13-G/A 6661085|49-C/T 6650645|14-C/G 100022464|43-T/A 100065437|41-T/C 6652497|42-C/A 6653265|58-G/C 6653475|24-G/A   
## 0.004291845 0.005050505 0.008810573 0.013605442 0.000000000 0.005050505 0.012448133 0.013274336 0.008230453 0.019607843 0.004484305   
## 100021941|30-C/T 6658496|17-G/A 6661755|16-A/C 6661423|60-C/T 100015613|67-G/A 6652888|64-A/G 6657111|13-T/C 6658119|34-T/A 6661367|26-G/T 100111976|26-A/G 100016385|11-T/C   
## 0.008733624 0.000000000 0.025210084 0.034482759 0.017857143 0.008620690 0.023529412 0.008438819 0.011235955 0.007142857 0.017937220   
## 100073644|37-C/T 6650454|46-A/G 6650627|13-T/C 6651042|67-C/T 6652424|44-T/C 6653438|30-C/T 6653954|43-A/G 6657314|43-G/A 6657355|38-G/A 6657359|15-A/G 6657460|29-G/A   
## 0.010928962 0.009132420 0.011764706 0.005988024 0.012552301 0.008733624 0.010101010 0.004291845 0.020000000 0.009090909 0.005102041   
## 6657482|8-A/G 6657781|17-C/A 6661090|62-A/T 6661394|35-A/G 6662671|17-A/G 6662872|17-G/T 6663077|27-G/T 100080773|11-T/C 6650529|9-A/G 6651847|21-G/A 6652313|42-C/T   
## 0.008968610 0.009433962 0.004115226 0.000000000 0.006622517 0.009389671 0.008733624 0.008968610 0.008510638 0.008849558 0.012500000   
## 6656897|6-A/T 6657147|18-G/A 6657176|29-T/G 6657326|12-G/A 6657353|6-A/G 6657411|13-G/A 6657545|31-T/C 6657603|29-G/A 6657689|26-G/A 6657743|8-C/G 6657998|8-A/G   
## 0.015625000 0.013513514 0.008695652 0.012903226 0.013215859 0.006802721 0.013698630 0.010204082 0.012820513 0.008230453 0.017937220   
## 6658208|29-C/T 6658287|13-A/G 6658348|17-A/T 6658475|20-C/A 6658498|16-G/A 6658580|46-G/C 6661448|44-G/T 6661799|23-C/T 6662617|41-T/G 6662633|33-G/C 6662813|9-G/T   
## 0.000000000 0.008510638 0.008333333 0.009090909 0.016129032 0.008928571 0.008333333 0.012765957 0.008438819 0.004149378 0.010152284   
## 6662843|9-A/G 6662968|7-T/C 6662976|12-A/C 6664360|25-T/C 6664442|16-C/T 6664875|15-A/G 100021224|39-C/T 100073899|13-T/C 100098800|29-G/T 100100663|9-T/A 6650431|37-G/A   
## 0.008510638 0.013071895 0.008547009 0.006134969 0.009708738 0.027272727 0.020000000 0.023529412 0.010204082 0.008695652 0.005649718   
## 6656974|5-A/T 6657112|32-C/T 6657945|33-T/A 6658433|38-T/A 6664304|20-G/T 6664309|9-T/C 100116189|14-C/A 100045177|15-A/G 100073820|20-A/G 100086048|24-A/T 100098455|12-T/G   
## 0.008298755 0.017391304 0.008230453 0.004201681 0.008403361 0.017699115 0.012552301 0.009090909 0.007692308 0.012345679 0.008695652   
## 100098486|16-T/A 100098772|34-A/T 100112391|7-C/G 6651055|18-T/C 100086270|5-G/C 100112446|22-G/C 6661857|31-C/T 6658676|11-C/G 100016220|5-A/G 100021127|7-A/G 6665873|25-A/G   
## 0.005181347 0.008230453 0.016597510 0.022222222 0.018750000 0.016949153 0.008810573 0.009345794 0.009009009 0.005076142 0.014492754   
## 6654134|52-T/A 100016595|6-G/A 100021410|63-C/T 100023315|21-T/C 6653760|49-C/A 100021585|32-T/G 100023219|12-A/G 6658683|43-C/T 100064732|20-A/G 100016355|33-T/C 100019393|16-C/T   
## 0.024390244 0.007751938 0.013043478 0.008928571 0.018867925 0.008298755 0.017621145 0.018691589 0.015384615 0.008888889 0.014563107   
## 100020119|15-A/G 100022894|28-G/A 100082537|56-C/T 100016273|19-A/G 100023327|12-C/T 100015858|19-C/T 100022410|6-G/A 100017258|51-G/T 100019095|48-C/T 100020063|20-G/A 100015954|31-A/G   
## 0.000000000 0.014492754 0.009433962 0.009302326 0.006578947 0.000000000 0.000000000 0.012931034 0.004672897 0.005050505 0.006097561   
## 100021964|13-G/C 100085852|36-T/C 6651226|18-G/C 100021819|62-A/C 100022277|8-T/G 100064827|60-G/T 100018209|24-G/C 100022569|31-G/A 6653298|40-A/G 100015576|20-G/A 100016155|45-A/G   
## 0.005319149 0.012987013 0.006024096 0.004291845 0.004273504 0.004255319 0.004739336 0.008620690 0.004504505 0.005050505 0.000000000   
## 100018361|5-C/T 100018644|13-A/G 100065285|54-G/A 100066085|48-C/G 100066350|63-A/G 100082653|31-C/G 100019242|15-T/C 100065918|65-C/T 100082574|16-T/C 100112503|22-T/C 6651116|23-G/A   
## 0.006756757 0.012765957 0.009569378 0.004366812 0.009523810 0.000000000 0.005747126 0.000000000 0.000000000 0.004310345 0.000000000   
## 6664424|11-C/T 100017539|66-C/A 100019104|53-C/T 100020067|42-A/C 100020868|41-A/G 100064882|50-T/C 6658317|12-A/T 6661605|7-T/C 6664288|12-C/T 100016786|17-G/A 100020956|6-T/C   
## 0.000000000 0.009216590 0.004672897 0.004132231 0.008810573 0.009259259 0.004385965 0.000000000 0.006578947 0.012658228 0.000000000   
## 100016197|32-C/T 100017640|9-C/G 100018738|55-G/T 6651375|43-G/A 6651394|40-A/T 6657692|30-G/C 6661438|21-G/A 100015230|14-A/T 100015429|54-A/G 100016348|67-T/C 100022665|32-G/A   
## 0.000000000 0.004739336 0.009900990 0.008583691 0.004166667 0.004716981 0.008849558 0.004237288 0.008474576 0.009803922 0.012711864   
## 6650646|12-A/G 6651058|8-C/T 6652871|25-G/T 6653284|49-A/G 100020780|47-T/C 100082291|18-C/T 6657270|16-C/A 6658306|32-A/G 6663971|20-C/T 100018785|45-G/A 100019578|24-A/G   
## 0.000000000 0.004166667 0.009259259 0.008771930 0.006944444 0.000000000 0.009216590 0.005376344 0.008658009 0.005154639 0.008510638   
## 100021429|16-A/G 6651301|13-T/C 6653801|25-T/C 6662791|9-T/C 6665675|15-G/A 6665677|34-G/A 6651053|25-C/T 6651062|23-G/C 6657266|49-A/G 6661781|11-G/A 6662884|20-G/A   
## 0.013274336 0.000000000 0.000000000 0.008849558 0.004484305 0.004739336 0.006802721 0.004201681 0.008771930 0.000000000 0.005050505   
## 6661633|24-T/C 100064957|57-C/G 6650480|42-G/T 6651168|20-T/C 6651202|6-G/T 6651669|51-A/T 6651901|52-A/G 6652133|6-G/A 6652277|34-G/T 6652429|23-C/A 6652852|41-C/T   
## 0.000000000 0.005154639 0.008368201 0.009478673 0.005524862 0.004115226 0.004166667 0.007751938 0.000000000 0.000000000 0.004504505   
## 6653859|66-G/C 6657107|30-C/T 6657341|14-T/G 6657827|41-T/C 6657863|36-T/C 6657972|11-T/G 6658332|28-G/A 6661576|17-T/C 6662852|8-G/C 6665753|18-G/A 6665974|16-T/A   
## 0.000000000 0.004366812 0.000000000 0.004424779 0.012987013 0.004310345 0.000000000 0.000000000 0.000000000 0.013513514 0.005181347   
## 6665974|39-G/C 100022319|61-G/T 100066473|44-C/T 6650457|59-C/T 6650512|39-G/A 6650541|48-T/C 6650816|44-C/T 6651070|58-A/C 6651408|58-C/G 6651681|14-C/T 6651690|41-A/G   
## 0.004444444 0.005102041 0.010526316 0.000000000 0.004464286 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651751|52-A/G 6651951|29-T/C 6652480|24-G/A 6652536|25-A/G 6653136|38-A/G 6653193|66-G/C 6653366|47-T/C 6653406|51-T/C 6653654|13-A/G 6653743|54-T/C 6653795|65-G/T   
## 0.004166667 0.000000000 0.013452915 0.000000000 0.004830918 0.000000000 0.000000000 0.004385965 0.000000000 0.008403361 0.000000000   
## 6656968|20-T/C 6657138|49-C/T 6657141|6-G/A 6657590|27-T/C 6657970|16-C/G 6658518|17-G/A 6658664|15-C/A 6661383|36-A/G 6661406|53-T/C 6661709|47-A/C 6661820|30-C/T   
## 0.004739336 0.009009009 0.007751938 0.008196721 0.000000000 0.000000000 0.009433962 0.005102041 0.000000000 0.004115226 0.004366812   
## 6661892|24-C/T 6662654|9-C/A 6662663|5-A/T 6663104|29-A/G 6664717|21-A/G 6665800|40-A/C 6665804|30-T/C 100018586|15-A/G 100045576|29-G/A 100064632|55-G/A 100124805|23-T/C   
## 0.008264463 0.008298755 0.000000000 0.009433962 0.004716981 0.000000000 0.000000000 0.000000000 0.000000000 0.008928571 0.000000000   
## 6650420|21-G/A 6650787|62-C/A 6650795|22-T/C 6651016|52-G/A 6651805|15-A/G 6652208|23-C/T 6652257|65-G/T 6652383|57-G/C 6652388|11-A/G 6652788|54-A/G 6652943|57-G/A   
## 0.000000000 0.000000000 0.004310345 0.005154639 0.000000000 0.004255319 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653199|35-A/C 6653447|32-A/G 6653467|25-G/A 6653565|10-G/C 6653569|24-A/T 6654084|42-A/G 6656901|37-A/C 6656919|48-T/A 6656965|28-C/T 6657179|25-G/A 6657434|21-C/A   
## 0.000000000 0.005376344 0.004385965 0.000000000 0.004115226 0.004545455 0.000000000 0.004219409 0.005988024 0.004385965 0.004132231   
## 6657454|17-T/C 6657477|8-A/G 6657523|10-C/T 6657578|8-C/T 6657628|10-A/G 6657698|41-A/G 6657753|24-G/A 6657784|15-C/G 6657818|27-A/G 6657821|26-T/C 6657854|14-G/A   
## 0.000000000 0.004484305 0.009708738 0.004166667 0.004975124 0.008810573 0.000000000 0.004184100 0.012048193 0.012048193 0.009756098   
## 6657918|33-T/A 6657923|13-T/C 6657975|18-C/G 6658063|26-T/C 6658152|11-T/C 6658175|49-T/C 6658353|18-G/T 6658417|35-C/A 6658431|14-A/G 6658485|8-A/G 6658531|35-G/A   
## 0.004115226 0.000000000 0.005291005 0.000000000 0.008968610 0.006451613 0.007692308 0.000000000 0.004504505 0.000000000 0.005747126   
## 6661099|20-G/A 6661250|41-T/C 6661252|5-A/G 6661823|31-T/C 6661826|50-T/A 6661853|33-G/A 6662682|18-G/C 6662708|45-C/A 6662717|10-T/A 6662720|17-G/A 6663956|7-C/T   
## 0.005050505 0.004424779 0.009009009 0.006849315 0.004545455 0.004504505 0.012048193 0.004504505 0.004132231 0.006329114 0.005050505   
## 6664324|31-T/C 6664897|36-T/G 6664904|21-A/G 6665135|35-C/T 6665977|58-C/T 100062054|9-T/G 100066053|65-C/G 100073867|18-T/C 100098449|11-T/C 100102329|39-G/C 100104849|27-A/C   
## 0.000000000 0.004219409 0.004716981 0.000000000 0.006250000 0.000000000 0.000000000 0.011111111 0.004484305 0.004444444 0.008230453   
## 100118311|8-T/G 6651728|12-T/C 6651869|31-G/A 6651992|39-T/C 6652070|15-A/G 6652698|58-A/G 6653498|29-C/G 6656984|39-A/T 6656988|16-A/T 6657054|5-A/G 6657255|43-C/T   
## 0.000000000 0.009009009 0.000000000 0.000000000 0.009090909 0.004651163 0.004784689 0.004424779 0.007812500 0.009009009 0.009345794   
## 6657257|18-T/G 6657264|21-A/C 6657486|25-A/G 6657731|27-T/C 6657762|30-T/G 6658275|5-T/C 6658351|8-T/A 6658356|40-T/A 6662713|37-C/T 6662735|7-T/C 6662802|35-T/C   
## 0.005102041 0.004237288 0.000000000 0.008196721 0.004115226 0.005617978 0.008403361 0.000000000 0.010928962 0.006535948 0.000000000   
## 6664285|14-G/T 6664286|5-A/G 6664411|22-G/A 100116189|12-G/A 100020566|50-G/A 100073416|9-G/C 100073555|13-T/C 100073946|24-C/A 100082262|34-C/T 100082279|42-T/G 100093533|7-G/T   
## 0.005376344 0.009009009 0.000000000 0.012903226 0.008230453 0.004424779 0.000000000 0.005050505 0.004424779 0.000000000 0.008230453   
## 100093556|10-T/A 100093571|9-A/T 100093658|5-T/C 100102354|38-T/G 100102368|8-T/C 100108745|39-G/C 100124806|24-A/G 6652013|36-G/A 100019613|42-A/G 6653942|18-C/G 100021748|48-G/A   
## 0.004132231 0.004115226 0.005617978 0.004273504 0.004629630 0.004444444 0.000000000 0.000000000 0.004545455 0.000000000 0.014084507   
## 100022307|64-C/T 6661279|61-A/G 100016043|65-A/G 100021551|26-C/G 6651509|9-T/C 100015681|31-G/A 100022444|19-C/T 100065978|51-A/C 100015971|32-G/A 100018341|11-C/T 100018791|30-T/A   
## 0.004524887 0.004524887 0.009900990 0.000000000 0.000000000 0.004310345 0.010526316 0.000000000 0.008474576 0.004761905 0.004587156   
## 100021444|27-G/T 6651402|31-T/C 6652371|36-A/G 100016955|21-T/C 100017267|60-T/C 100017271|28-T/A 100017633|14-G/T 100018216|18-C/T 100018585|65-G/A 100018930|7-A/G 100019458|6-T/C   
## 0.004366812 0.000000000 0.000000000 0.008928571 0.000000000 0.008438819 0.010752688 0.000000000 0.000000000 0.005076142 0.000000000   
## 100020508|64-T/C 100021998|13-T/C 100065288|30-C/T 6657675|5-C/T 100018006|38-A/G 100018907|18-T/C 100018908|67-C/T 100019522|42-C/T 100021552|23-G/T 100021990|59-T/C 100066166|11-T/A   
## 0.015228426 0.011764706 0.000000000 0.006756757 0.009661836 0.011111111 0.005988024 0.008333333 0.004310345 0.004694836 0.004184100   
## 6651977|40-G/C 6661494|35-T/C 6661600|20-T/C 100023675|41-A/G 100064707|39-C/T 100066332|9-G/A 100111975|14-G/C 100015765|23-G/A 100017875|29-A/G 100019456|25-T/C 100019962|30-A/G   
## 0.000000000 0.000000000 0.000000000 0.008810573 0.000000000 0.004219409 0.018750000 0.004854369 0.004716981 0.012269939 0.000000000   
## 100020185|57-C/A 100020870|33-C/G 100021266|13-G/A 6651172|33-A/G 100015703|20-A/G 6653988|60-A/T 100018373|30-C/T 100020483|16-G/A 100022388|34-C/T 100022854|43-G/T 100023104|56-C/T   
## 0.007092199 0.009132420 0.006802721 0.004694836 0.007692308 0.004347826 0.004366812 0.008064516 0.008849558 0.004115226 0.000000000   
## 100023409|22-T/C 100086339|36-T/G 6651925|23-G/C 100120327|18-G/A 100120327|6-G/A 100016290|59-A/C 100020594|60-T/A 100022242|47-G/T 100022320|10-T/C 100022502|23-T/A 6651745|39-T/C   
## 0.008620690 0.004219409 0.000000000 0.000000000 0.015503876 0.006289308 0.004166667 0.000000000 0.004366812 0.004132231 0.008196721   
## 6661848|25-T/G 100016236|36-G/T 100016349|39-A/G 100016910|15-T/A 100020122|19-C/G 100021092|17-T/C 100022165|12-A/G 100023470|59-G/A 6661692|56-G/A 100016458|65-C/G 100018964|48-T/G   
## 0.004608295 0.011111111 0.008810573 0.017241379 0.004739336 0.013605442 0.004405286 0.008810573 0.000000000 0.000000000 0.000000000   
## 100021554|25-A/G 100023185|19-T/G 6650701|18-A/G 6652394|37-T/C 6653506|13-T/A 6664058|35-C/T 100016479|45-A/T 100017508|19-C/G 100018962|16-T/C 100022682|11-A/T 100066335|57-A/T   
## 0.014492754 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100082668|8-A/T 6658494|15-A/G 100015625|54-A/G 100016249|62-A/C 100016393|18-A/T 100016660|55-C/T 100017075|58-G/A 100017124|8-A/G 100017541|11-T/A 100018026|11-T/C 100019630|31-T/C   
## 0.004347826 0.000000000 0.000000000 0.008583691 0.004405286 0.000000000 0.000000000 0.008968610 0.004184100 0.004484305 0.000000000   
## 100019855|44-T/C 100019873|44-G/A 100019915|44-G/T 100022465|65-C/G 100022648|51-G/A 100044512|21-C/T 6650696|57-G/A 6653452|20-G/A 100015340|55-T/G 100017500|23-A/C 100020588|47-C/A   
## 0.004184100 0.000000000 0.000000000 0.000000000 0.000000000 0.005128205 0.000000000 0.000000000 0.004444444 0.004444444 0.000000000   
## 100022422|51-G/T 100022425|5-T/C 100023388|34-C/A 100023484|57-G/A 100023525|29-A/G 100064648|32-T/C 100065646|5-C/A 100073396|12-C/T 100073814|33-T/C 6650655|58-G/A 6651105|51-A/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.004716981 0.004201681 0.004444444 0.000000000 0.004444444 0.000000000 0.000000000   
## 6651192|9-A/G 6652274|53-T/C 6652608|18-G/C 6652649|33-C/G 6653266|5-T/A 6661462|57-A/G 100016352|41-C/T 100016515|37-T/A 100016629|18-T/C 100017186|6-T/C 100018441|46-A/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.011111111 0.011627907 0.000000000   
## 100019819|59-T/G 100021768|16-G/T 100022658|14-G/A 100022749|22-C/T 100023505|21-C/G 100064613|60-T/C 6650443|20-C/T 6650647|27-A/C 6650672|16-T/C 6650875|47-G/A 6652044|30-A/G   
## 0.004291845 0.006622517 0.004878049 0.000000000 0.004149378 0.004484305 0.000000000 0.000000000 0.000000000 0.009478673 0.000000000   
## 6652814|39-C/T 6653050|59-G/T 6653245|23-A/G 6653382|37-T/C 100015237|28-T/A 100016165|7-G/A 100017157|49-G/A 100017486|22-T/G 100019175|10-C/G 100019665|26-G/A 100020841|64-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004694836 0.000000000 0.004291845 0.000000000 0.000000000 0.010152284   
## 100120329|23-A/G 6650705|36-C/T 6651136|7-G/C 6651295|17-C/T 6651888|7-A/G 6652092|41-A/G 6652390|29-T/C 6653344|40-A/G 100017290|62-G/T 100017981|57-C/T 100018180|55-T/C   
## 0.008888889 0.000000000 0.000000000 0.000000000 0.000000000 0.004405286 0.000000000 0.000000000 0.000000000 0.000000000 0.011976048   
## 100018460|39-T/G 100018667|65-G/A 100019573|61-A/C 100020403|29-G/T 100023540|56-T/G 100065318|8-A/G 100066600|5-T/C 100066622|14-T/C 100086014|36-T/C 100098840|27-G/A 6650711|25-C/A   
## 0.008368201 0.005102041 0.000000000 0.010204082 0.000000000 0.000000000 0.000000000 0.004716981 0.012987013 0.006250000 0.000000000   
## 6651249|51-G/C 6653001|20-G/A 6653114|14-T/A 6653811|17-T/C 6661187|29-A/C 100015694|44-A/T 100016554|8-A/G 100017386|12-G/A 100017844|43-G/A 100020562|42-C/G 100021051|67-G/T   
## 0.000000000 0.000000000 0.004132231 0.000000000 0.000000000 0.004132231 0.013452915 0.006451613 0.012875536 0.000000000 0.004291845   
## 100065266|5-T/C 6650693|44-C/T 6651276|7-A/G 6651724|68-A/G 6652175|66-T/C 6652356|17-A/G 6653008|30-C/G 6653473|47-C/T 6653869|47-T/G 6654016|14-A/G 6664729|22-C/T   
## 0.000000000 0.000000000 0.005076142 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.009174312   
## 6661750|65-G/A 100016089|30-C/T 100017364|16-A/G 100017568|38-A/G 100017636|20-G/A 100018230|62-T/C 100020647|25-G/A 100023048|6-T/C 100023313|65-G/T 100023842|66-T/C 6650662|57-T/A   
## 0.000000000 0.000000000 0.000000000 0.009661836 0.005050505 0.000000000 0.008771930 0.000000000 0.009259259 0.000000000 0.000000000   
## 6650857|56-T/C 6650871|15-T/G 6652354|41-T/G 6652712|18-A/G 6652897|32-G/A 6653119|17-A/G 6653277|45-G/C 6653413|34-C/T 6653686|19-A/G 6653906|8-T/C 6656936|12-G/A   
## 0.000000000 0.000000000 0.004219409 0.000000000 0.004237288 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6658216|16-T/C 6661637|61-A/T 6664071|59-C/T 6652420|13-T/G 100017654|43-G/C 100021742|38-C/A 100044665|10-T/G 100064985|48-C/T 100065246|12-A/G 100066557|28-C/T 100082397|38-C/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.004115226 0.000000000 0.008403361 0.000000000 0.004405286 0.000000000 0.000000000   
## 6650620|8-A/G 6650692|56-G/A 6650978|6-G/A 6651221|15-T/C 6651235|33-A/G 6651703|33-T/C 6651891|44-T/C 6652170|11-A/G 6652463|46-A/C 6652496|43-C/T 6653226|65-A/G   
## 0.000000000 0.008547009 0.007751938 0.000000000 0.000000000 0.000000000 0.000000000 0.012121212 0.005025126 0.000000000 0.000000000   
## 6653778|39-T/A 6654074|20-G/T 6658572|16-A/G 6661139|49-C/A 6661309|12-G/A 6661345|40-C/G 6662659|12-A/C 100120331|53-T/G 100020242|53-A/G 100021807|31-T/C 100065925|36-C/T   
## 0.004444444 0.000000000 0.004424779 0.000000000 0.000000000 0.004201681 0.004273504 0.008298755 0.000000000 0.000000000 0.000000000   
## 100066073|6-T/C 100102122|31-C/A 6650428|57-G/T 6652370|62-G/A 6653373|60-G/T 6653417|48-C/G 6653777|46-G/T 6653792|53-C/A 6654058|18-T/C 6661147|26-G/C 6661226|53-C/T   
## 0.011627907 0.004115226 0.000000000 0.000000000 0.000000000 0.004366812 0.000000000 0.004184100 0.005555556 0.000000000 0.000000000   
## 6661658|19-C/T 6661670|43-T/C 6663906|23-C/T 6664040|9-G/T 100017806|36-A/G 100019553|65-G/A 100020150|48-T/C 100022824|15-T/C 100045255|15-T/C 100064683|52-A/G 100065044|38-G/T   
## 0.000000000 0.000000000 0.000000000 0.005076142 0.005102041 0.005102041 0.000000000 0.005747126 0.000000000 0.004166667 0.000000000   
## 100065331|11-A/G 100082376|10-G/T 100114017|32-T/C 6650513|52-C/T 6650793|26-A/C 6650805|11-A/G 6650968|18-A/T 6651099|28-A/G 6651150|45-T/C 6651383|67-T/G 6651541|66-T/C   
## 0.000000000 0.000000000 0.000000000 0.005917160 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651588|49-C/T 6651711|11-A/G 6651715|59-C/G 6651731|68-G/T 6652027|41-G/A 6652109|27-A/G 6652130|35-T/C 6652152|19-T/G 6652278|43-G/C 6652658|29-A/T 6652840|16-G/A   
## 0.009009009 0.000000000 0.000000000 0.000000000 0.004166667 0.012048193 0.000000000 0.000000000 0.004115226 0.000000000 0.008064516   
## 6652867|64-C/T 6652883|26-G/C 6653149|58-C/T 6653187|24-G/T 6653229|41-A/G 6653591|11-G/C 6653796|8-T/C 6653829|21-C/A 6653872|47-G/T 6653967|40-G/A 6657086|36-C/A   
## 0.000000000 0.000000000 0.006250000 0.000000000 0.000000000 0.000000000 0.004629630 0.000000000 0.000000000 0.000000000 0.000000000   
## 6657671|40-C/T 6657902|21-T/C 6661102|10-A/G 6661477|67-A/G 6661483|14-G/C 6661530|26-C/G 6661560|54-A/G 6661564|45-T/A 6662672|28-C/A 6664046|51-T/C 6664055|23-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.006250000 0.004716981 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100120332|58-C/A 100120330|33-G/T 100015220|59-C/A 100016151|11-T/C 100016562|12-G/A 100016798|34-C/T 100021467|36-G/A 100065538|21-A/T 100065912|28-G/A 100098480|21-A/C 6650742|33-G/A   
## 0.008298755 0.008333333 0.000000000 0.004484305 0.012903226 0.000000000 0.000000000 0.004784689 0.014492754 0.000000000 0.004504505   
## 6650889|38-G/T 6651263|53-A/C 6651318|7-C/T 6651340|27-C/T 6651392|24-C/T 6651403|11-C/A 6651475|6-A/G 6651645|50-G/A 6651662|13-T/A 6651726|49-G/A 6651740|27-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.004132231 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651858|23-A/G 6651880|60-C/T 6651889|58-T/C 6651919|45-G/T 6652026|29-G/T 6652151|12-T/C 6652259|45-G/T 6652382|40-G/A 6652492|21-C/T 6652504|25-A/G 6652541|50-A/G   
## 0.004444444 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.008733624 0.000000000 0.000000000 0.000000000   
## 6652568|29-G/T 6652593|5-G/T 6652667|36-T/C 6652794|64-C/T 6652856|20-T/A 6653235|13-T/G 6653395|26-G/A 6653420|50-G/A 6653458|58-C/T 6653463|23-A/G 6653479|25-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.008888889 0.000000000   
## 6653599|33-C/T 6653745|15-T/C 6653871|33-G/A 6653881|45-G/A 6657644|31-G/T 6657994|16-G/A 6658139|28-G/A 6658379|30-A/G 6658529|38-A/G 6658559|22-T/G 6658652|28-T/C   
## 0.000000000 0.005747126 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004975124 0.004830918 0.000000000 0.004830918   
## 6658660|28-C/G 6661093|40-C/A 6661130|16-T/C 6661369|40-T/C 6661393|35-C/A 6661665|50-T/C 6661672|7-G/A 6661712|36-C/T 6663057|27-A/C 6663982|51-T/G 6665517|21-A/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.004484305 0.000000000 0.000000000 0.006250000 0.004115226 0.000000000 0.009569378   
## 6665665|51-T/C 6665807|65-G/A 100104824|10-C/A 100020394|66-C/G 100020441|43-A/C 100021095|9-T/C 100021324|61-A/G 100044982|27-T/C 6633176|7-T/C 6650394|45-T/C 6650524|64-C/A   
## 0.004385965 0.000000000 0.009950249 0.000000000 0.004761905 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6650526|41-A/C 6650616|12-C/T 6650617|39-T/G 6650695|29-G/A 6650768|33-C/T 6650776|41-A/G 6650824|6-C/G 6650856|61-G/C 6650931|6-C/T 6650932|50-A/G 6650935|64-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.004166667 0.000000000 0.000000000 0.004310345 0.000000000 0.004201681 0.000000000   
## 6650950|61-A/C 6650971|13-G/A 6651076|54-T/C 6651094|7-C/T 6651112|44-A/C 6651140|51-A/G 6651141|28-C/T 6651166|8-G/A 6651232|36-T/A 6651234|42-A/T 6651248|33-A/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651256|30-A/G 6651296|34-G/A 6651362|29-A/G 6651505|25-A/G 6651536|18-C/T 6651549|18-T/C 6651584|29-A/G 6651585|28-G/A 6651603|27-G/A 6651650|53-C/T 6651682|41-G/A   
## 0.004975124 0.000000000 0.000000000 0.014492754 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004672897 0.000000000   
## 6651722|21-T/C 6651790|34-A/C 6651836|41-C/A 6651920|32-T/A 6651945|47-T/C 6651948|51-G/A 6651949|50-A/C 6651978|13-T/C 6651988|28-A/T 6651995|36-G/C 6651996|46-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004651163 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652021|23-A/T 6652050|59-T/C 6652102|5-C/T 6652139|9-C/G 6652157|32-T/A 6652164|29-T/C 6652198|12-T/A 6652209|23-C/G 6652232|10-G/A 6652236|58-T/C 6652248|19-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004115226 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652256|38-A/G 6652399|58-G/T 6652408|36-G/T 6652455|7-A/G 6652563|7-G/C 6652666|14-C/T 6652708|30-T/C 6652718|43-C/A 6652723|11-A/G 6652744|49-T/G 6652761|57-T/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652809|41-A/G 6652820|37-G/T 6652865|19-C/G 6653005|35-T/C 6653010|64-G/C 6653038|53-G/C 6653130|47-A/T 6653175|37-A/G 6653237|34-C/T 6653376|49-A/C 6653396|18-A/G   
## 0.004405286 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004424779 0.000000000 0.000000000   
## 6653462|51-G/A 6653499|18-A/G 6653523|14-A/C 6653530|62-T/C 6653604|19-T/A 6653643|33-G/C 6653655|16-T/C 6653725|23-C/A 6653838|44-C/T 6653994|51-G/A 6656884|31-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004329004 0.000000000 0.000000000 0.006097561   
## 6656889|19-A/G 6657085|18-T/G 6657130|23-G/T 6657217|6-G/T 6657267|27-G/T 6657331|17-A/G 6657391|26-A/G 6657478|16-A/C 6657485|17-C/T 6657548|20-A/G 6657600|33-G/A   
## 0.004651163 0.005102041 0.008620690 0.000000000 0.004366812 0.000000000 0.007142857 0.000000000 0.007874016 0.000000000 0.004504505   
## 6657637|34-A/C 6657667|22-A/G 6657873|49-G/A 6658002|34-T/C 6658172|30-C/A 6658300|7-T/A 6658375|19-C/G 6658441|13-C/T 6658569|13-G/A 6661094|36-A/G 6661297|9-T/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.008264463 0.000000000 0.004739336 0.004878049 0.006802721 0.000000000 0.000000000   
## 6661311|33-T/C 6661392|20-A/G 6661396|55-T/C 6661401|35-G/A 6661459|27-G/A 6661496|33-C/G 6661598|62-A/G 6661609|59-A/C 6661636|18-T/A 6661653|9-G/A 6661756|25-G/A   
## 0.000000000 0.000000000 0.005988024 0.005747126 0.000000000 0.000000000 0.008438819 0.006289308 0.004273504 0.000000000 0.000000000   
## 6661788|59-G/T 6661804|5-T/A 6661860|33-C/T 6662701|6-A/G 6662705|5-C/G 6662826|20-C/T 6663036|30-T/G 6663052|30-A/G 6663927|13-G/A 6664053|24-C/T 6664315|17-A/G   
## 0.000000000 0.000000000 0.000000000 0.004405286 0.000000000 0.000000000 0.000000000 0.004975124 0.000000000 0.004132231 0.006622517   
## 6664393|35-G/A 100101004|14-G/C 6664748|30-C/A 6665122|15-A/T 6665280|39-G/A 6665349|39-T/A 100109477|21-T/C 6665749|9-T/C 6665804|12-G/A 6665805|15-G/A 6665809|11-A/G   
## 0.005747126 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004424779 0.000000000 0.000000000 0.000000000   
## 6665975|52-G/A 6666169|13-T/A 6666355|23-A/G 100123948|55-T/C 100022390|44-G/A 100023236|15-G/A 100073694|7-G/A 100082381|22-C/A 100098535|7-C/G 100098787|33-A/G 100123797|15-G/T   
## 0.000000000 0.004115226 0.000000000 0.000000000 0.004830918 0.000000000 0.004694836 0.000000000 0.000000000 0.000000000 0.000000000   
## 6632181|18-G/A 6650384|58-A/G 6650392|28-C/A 6650405|15-T/C 6650425|36-A/T 6650440|25-T/C 6650441|46-C/T 6650503|7-C/T 6650511|35-A/T 6650582|52-A/C 6650601|22-C/T   
## 0.013513514 0.004651163 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6650694|13-A/C 6650707|5-A/G 6650750|63-G/A 6650751|7-T/G 6650881|41-T/C 6650887|8-T/G 6650895|17-A/G 6650942|29-A/G 6651068|27-G/A 6651106|54-A/T 6651126|7-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651199|46-C/G 6651277|12-C/T 6651309|58-A/G 6651440|6-A/G 6651559|24-C/T 6651568|46-G/C 6651596|5-C/T 6651608|37-G/A 6651626|23-G/C 6651670|12-A/G 6651678|31-T/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004115226   
## 6651702|11-C/T 6651729|48-A/G 6651775|9-A/G 6651799|50-C/G 6651833|60-C/T 6651834|42-T/G 6651856|61-G/A 6651902|48-A/T 6651916|32-C/T 6651940|40-C/T 6651955|38-C/A   
## 0.000000000 0.004926108 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004219409   
## 6652103|6-G/A 6652221|13-A/G 6652233|30-C/T 6652271|50-T/C 6652312|29-A/G 6652323|41-T/C 6652348|30-G/A 6652387|29-A/C 6652570|42-C/A 6652579|68-G/T 6652611|59-C/A   
## 0.000000000 0.000000000 0.000000000 0.004629630 0.000000000 0.000000000 0.000000000 0.000000000 0.004115226 0.000000000 0.000000000   
## 6652679|46-G/C 6652770|46-T/C 6652916|41-A/G 6652924|5-G/T 6653139|25-C/T 6653290|15-T/C 6653405|19-T/G 6653547|59-T/C 6653608|25-C/G 6653635|5-T/C 6653678|35-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004694836 0.000000000 0.000000000 0.000000000   
## 6653689|26-T/A 6653786|26-A/G 6653788|50-G/A 6653837|14-C/T 6653866|26-A/T 6653923|19-A/T 6653998|66-G/A 6654062|37-C/T 6654076|43-A/C 6656943|6-A/T 6656950|8-C/G   
## 0.005813953 0.000000000 0.004115226 0.015151515 0.000000000 0.004115226 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6657301|15-A/G 6657373|32-C/A 6657396|21-C/T 6657408|41-T/C 6657466|14-C/G 6657470|5-C/T 6657514|43-G/A 6657532|34-T/C 6657551|9-T/C 6657596|44-G/A 6657604|9-T/G   
## 0.000000000 0.004237288 0.005128205 0.000000000 0.000000000 0.013513514 0.000000000 0.005076142 0.004424779 0.004830918 0.000000000   
## 6657613|10-A/C 6657630|52-C/T 6657681|17-C/T 6657715|15-C/T 6657723|9-A/T 6657726|41-A/G 6657729|7-G/A 6657752|22-T/A 6657881|18-C/G 6658064|41-T/A 6658065|28-A/C   
## 0.004237288 0.000000000 0.007874016 0.000000000 0.004115226 0.000000000 0.004694836 0.004132231 0.000000000 0.000000000 0.000000000   
## 6658111|29-A/T 6658148|11-T/C 6658186|19-A/G 6658226|42-C/T 6658296|10-A/T 6658347|20-C/G 6658374|29-C/T 6658438|42-C/G 6658501|21-A/C 6658566|40-C/T 6661096|38-A/G   
## 0.000000000 0.000000000 0.000000000 0.004166667 0.000000000 0.004310345 0.000000000 0.004464286 0.004237288 0.004149378 0.000000000   
## 6661098|8-C/T 6661155|52-A/G 6661165|8-T/C 6661251|38-A/G 6661269|21-G/A 6661341|8-C/T 6661391|21-C/A 6661466|12-C/T 6661555|18-G/C 6661659|40-C/T 6661684|52-G/A   
## 0.000000000 0.004166667 0.004629630 0.004830918 0.000000000 0.004166667 0.000000000 0.006578947 0.000000000 0.000000000 0.000000000   
## 6661698|59-T/A 6661775|7-A/G 6661797|49-G/A 6662590|20-A/G 6662615|6-C/T 6662790|12-G/C 6662818|19-G/A 6662832|11-A/G 6662835|7-G/C 6662944|22-G/C 6662946|24-G/A   
## 0.004444444 0.000000000 0.000000000 0.000000000 0.000000000 0.008438819 0.004878049 0.000000000 0.004901961 0.000000000 0.000000000   
## 6662996|36-G/A 6663047|41-G/A 6663054|17-C/T 6663939|28-A/T 6663975|44-T/C 6663987|39-C/G 6664296|7-C/G 6664312|54-A/T 6664428|37-G/A 100082074|52-T/C 6664722|41-T/G   
## 0.000000000 0.004166667 0.007874016 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.005649718 0.010309278 0.000000000   
## 6665235|64-T/C 6665278|5-A/G 6665282|36-G/A 6665346|17-A/G 6665662|22-T/C 6665663|28-T/A 6665849|25-C/T 6665877|33-T/C 6665879|38-A/T 6666358|65-C/T 100016475|46-G/A   
## 0.000000000 0.000000000 0.009433962 0.000000000 0.004310345 0.004219409 0.006802721 0.004444444 0.004347826 0.000000000 0.000000000   
## 100016905|48-C/A 100018192|15-C/A 100018375|55-C/G 100021981|25-T/A 100045028|11-A/G 100065468|15-G/A 100065569|37-C/A 100073412|16-T/C 100073701|13-G/T 100074011|18-G/C 100082459|38-C/A   
## 0.000000000 0.000000000 0.004219409 0.000000000 0.006060606 0.000000000 0.000000000 0.015384615 0.004201681 0.006024096 0.004219409   
## 100086150|10-G/T 100086229|17-T/C 100086237|9-C/A 100091190|32-A/G 100091207|45-C/G 100091251|13-T/C 100096444|12-A/C 100098472|22-C/G 100103647|6-C/A 100107103|17-C/T 6650387|53-A/G   
## 0.004219409 0.000000000 0.000000000 0.000000000 0.000000000 0.011764706 0.004273504 0.004149378 0.013824885 0.000000000 0.004310345   
## 6650481|61-G/A 6650788|22-T/C 6651332|37-A/C 6651818|50-T/C 6651863|32-C/T 6652372|10-T/C 6652511|31-G/A 6652754|21-A/G 6652755|9-G/A 6653571|19-A/G 6653574|37-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004366812 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653585|24-C/T 6657101|27-G/A 6657124|22-T/C 6657595|21-A/G 6657640|37-T/G 6657747|20-T/A 6657809|8-A/C 6657847|15-A/G 6657859|39-G/C 6657980|25-A/G 6658003|48-T/C   
## 0.000000000 0.000000000 0.004310345 0.004716981 0.000000000 0.005319149 0.004444444 0.000000000 0.004444444 0.014492754 0.000000000   
## 6658141|5-G/C 6658173|38-T/C 6658437|16-G/A 6658509|5-T/C 6658625|7-G/C 6661101|21-T/C 6661509|18-T/G 6661745|36-G/A 6661802|6-G/A 6661814|14-T/G 6662656|29-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004464286 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6662837|7-T/A 6662873|7-G/C 6662947|5-G/A 6663032|15-G/A 6664269|17-T/G 6664285|27-A/C 6664757|14-T/C 6664912|6-T/C 6665124|27-C/T 6665664|30-A/C 6665874|13-A/G   
## 0.000000000 0.000000000 0.008547009 0.008968610 0.010471204 0.000000000 0.000000000 0.011627907 0.006134969 0.004273504 0.004255319   
## 6665876|47-A/G 6666225|7-A/G 100065638|51-G/C 100065980|45-T/C 100073421|25-T/C 100073630|15-C/G 100073757|34-G/C 100073948|30-G/A 100074014|19-T/A 100074068|17-A/G 100082248|28-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004587156 0.004366812 0.000000000 0.000000000   
## 100086042|5-C/T 100093665|8-T/G 100098602|36-T/A 100098836|24-A/C 100102147|13-C/T 100121015|18-T/C 100066223|13-G/A 100106210|14-T/G 6665285|9-C/T 6661710|31-T/C 6653668|61-T/A   
## 0.013513514 0.004273504 0.008333333 0.004366812 0.004878049 0.000000000 0.000000000 0.013698630 0.008849558 0.000000000 0.000000000   
## 100024870|39-A/C 6663929|41-A/C 100019092|30-T/A 6661298|58-T/C 100016534|66-G/A 100023056|37-G/A 100082643|25-G/C 100064775|20-G/A 100023265|24-C/A 6651137|52-T/C 6652727|6-C/A   
## 0.000000000 0.000000000 0.000000000 0.005464481 0.000000000 0.011299435 0.013986014 0.000000000 0.000000000 0.000000000 0.000000000   
## 100021017|32-G/T 100073776|11-G/A 100015600|63-A/T 6665051|27-A/T 100019246|34-T/A 6651056|34-C/T 6661829|9-C/T 6665126|22-A/C 100016268|6-T/C 100020350|21-A/G 100023328|20-T/C   
## 0.004807692 0.000000000 0.000000000 0.000000000 0.000000000 0.004424779 0.000000000 0.009433962 0.011627907 0.004716981 0.004739336   
## 100066210|28-C/T 6661110|21-T/A 100018023|63-A/G 100020236|59-G/A 100021188|32-G/C 100021960|39-C/T 100023459|46-A/G 100017280|64-T/G 100018247|39-T/A 100021898|39-C/T 100022093|45-A/T   
## 0.000000000 0.004291845 0.000000000 0.004405286 0.000000000 0.000000000 0.009132420 0.008583691 0.004444444 0.010000000 0.004255319   
## 100023129|9-T/A 100023441|20-A/G 100065302|16-G/A 100066548|17-C/T 6650550|11-T/G 100016077|58-A/G 100018469|20-T/G 100019543|16-G/T 100020860|10-A/C 100022172|17-T/G 100045257|30-G/T   
## 0.004347826 0.007692308 0.000000000 0.000000000 0.000000000 0.004651163 0.000000000 0.000000000 0.000000000 0.000000000 0.004166667   
## 6650546|47-C/A 6653399|26-T/A 100015390|53-T/G 100017298|53-C/T 100017444|58-C/T 100017989|5-T/C 100018126|55-A/G 100018257|27-G/T 100018350|18-A/T 100020244|19-T/A 100021605|34-G/T   
## 0.000000000 0.000000000 0.004149378 0.004672897 0.000000000 0.000000000 0.000000000 0.000000000 0.004405286 0.000000000 0.004219409   
## 100023076|20-A/T 100023357|49-A/T 6653628|59-A/G 6661821|17-T/A 100015255|25-C/T 100015707|14-A/T 100015710|46-C/T 100016017|19-C/T 100017899|6-A/G 100019473|54-C/T 100020145|63-C/G   
## 0.000000000 0.000000000 0.000000000 0.009009009 0.000000000 0.004237288 0.005405405 0.000000000 0.004405286 0.008620690 0.000000000   
## 100021743|44-C/T 100022776|55-C/A 100023242|39-G/C 100082188|29-T/C 100015628|14-G/A 100020893|36-A/G 100021540|61-G/A 100021665|36-G/A 100022938|66-G/C 100023291|60-T/A 6661242|40-T/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6661353|60-C/T 100016201|10-C/T 100016537|37-T/G 100016842|18-C/T 100016876|65-C/T 100016987|65-G/A 100017504|59-C/A 100019821|57-T/A 100020901|34-T/C 100021671|8-G/A 100021969|10-T/C   
## 0.000000000 0.009708738 0.000000000 0.000000000 0.000000000 0.000000000 0.004166667 0.000000000 0.000000000 0.000000000 0.004366812   
## 100022199|66-G/A 100022545|35-T/C 100022573|13-G/C 100022831|52-G/A 100066558|7-C/T 100016263|30-C/G 100016306|10-A/T 100017198|10-T/A 100017275|13-A/G 100017509|15-C/G 100018032|68-T/C   
## 0.000000000 0.000000000 0.000000000 0.005154639 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004716981   
## 100018336|6-C/T 100018672|56-G/T 100019100|44-G/T 100019286|14-C/G 100019912|15-C/T 100020907|14-C/T 100021161|47-T/A 100021810|7-T/C 100023367|18-C/T 100064740|15-A/T 6653264|41-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6663072|37-T/A 100016098|7-T/C 100016143|59-T/C 100016740|12-A/C 100016777|38-T/C 100018407|47-C/A 100018609|48-C/T 100019034|62-G/A 100019293|6-G/T 100019468|41-G/A 100019644|45-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.008771930   
## 100019745|64-C/T 100021138|40-C/T 100022777|45-C/T 100066874|50-C/A 100091157|27-T/G 6652941|42-T/C 6653902|40-C/T 6664728|12-C/T 100015633|60-A/G 100016193|8-T/A 100017485|19-T/C   
## 0.009049774 0.000000000 0.000000000 0.000000000 0.000000000 0.004273504 0.004149378 0.006578947 0.000000000 0.000000000 0.000000000   
## 100018162|27-C/T 100019061|21-G/C 100019334|15-C/T 100019756|22-T/C 100020056|55-G/T 100020924|20-C/T 100022009|9-G/A 100022323|36-A/G 100022703|5-T/C 100023049|42-G/A 100023218|64-G/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004273504   
## 100023269|66-A/G 100024832|25-T/C 100044738|8-C/T 100065081|38-C/T 100065706|32-G/A 100096952|53-C/A 6651239|56-C/A 6651495|32-A/G 6652638|14-C/A 6653296|13-A/C 6661158|36-C/T   
## 0.004672897 0.000000000 0.004166667 0.000000000 0.004237288 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.006250000   
## 100015381|11-T/A 100015413|40-A/T 100015882|61-G/T 100017512|41-A/C 100018395|5-T/C 100019423|68-C/G 100019434|60-G/T 100019704|32-C/G 100019785|27-T/C 100021066|30-G/A 100021425|47-C/A   
## 0.000000000 0.000000000 0.005102041 0.000000000 0.005617978 0.004201681 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100021475|63-A/T 100021915|65-G/A 100022373|12-A/G 100022606|28-T/C 100022910|49-A/G 100025041|57-G/A 100044554|19-G/A 100064948|49-T/A 100065362|20-C/T 6650752|20-T/A 6652176|15-T/C   
## 0.000000000 0.005102041 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653696|11-C/T 6662909|25-T/C 100015291|39-T/G 100016129|26-G/A 100017225|65-T/C 100017536|38-A/T 100017676|8-G/A 100019216|7-C/G 100019420|52-C/G 100019494|63-G/T 100020318|21-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004166667 0.000000000   
## 100020532|11-T/G 100020604|29-A/G 100020745|51-A/C 100021499|21-G/C 100021838|13-T/A 100021978|37-T/C 100022031|7-T/A 100022223|45-A/G 100023499|68-G/T 100023507|21-G/A 6634782|49-G/A   
## 0.000000000 0.000000000 0.004310345 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004484305   
## 6650656|12-T/G 6652475|14-A/T 6661333|17-C/T 100015448|67-A/T 100015469|19-T/A 100015537|12-C/T 100015992|7-C/A 100016029|18-C/T 100016274|21-C/T 100016854|18-G/T 100017144|48-G/A   
## 0.000000000 0.008474576 0.000000000 0.004385965 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100017489|57-G/A 100017909|16-T/C 100018611|43-C/A 100018927|63-G/C 100019035|27-T/A 100019236|16-C/T 100020671|26-T/C 100021001|60-T/A 100021318|46-C/G 100021549|61-A/C 100021863|20-C/T   
## 0.000000000 0.000000000 0.004975124 0.000000000 0.000000000 0.004854369 0.000000000 0.004166667 0.000000000 0.000000000 0.004329004   
## 100023205|16-G/T 100044711|34-G/A 100064599|63-A/C 100065680|37-G/A 100118396|21-A/G 6651534|52-G/A 6651570|59-C/T 6652200|26-G/A 6652872|49-G/A 6654031|17-C/T 6661376|52-G/A   
## 0.000000000 0.004739336 0.000000000 0.000000000 0.009433962 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.005154639   
## 6662917|14-G/T 6666226|12-T/G 100015950|5-A/G 100016109|31-A/T 100016805|54-A/G 100016861|15-T/C 100017893|45-T/C 100018244|41-A/T 100018636|16-G/A 100018890|25-T/C 100018982|31-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.005747126 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100019094|40-C/T 100019137|21-G/C 100019699|26-G/C 100020118|29-C/T 100020890|29-C/T 100021219|23-C/T 100021521|57-T/G 100022288|6-G/C 100022337|30-A/G 100022554|22-T/C 100023064|19-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.009433962 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004878049   
## 100045690|24-G/A 6650514|37-T/A 6651982|15-T/A 6653247|28-A/C 6653292|47-C/G 6653430|58-A/G 6653481|64-T/C 6653533|6-C/A 6653865|59-A/C 6661831|60-G/A 100015200|15-A/C   
## 0.004484305 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100015297|26-C/T 100015382|10-T/A 100017834|8-C/T 100020258|46-C/T 100021617|53-T/C 100021932|18-G/T 100022038|23-C/A 100022622|15-A/G 100022667|15-C/T 100022800|24-C/A 100022903|55-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004329004 0.000000000 0.000000000 0.000000000 0.000000000   
## 100023130|51-G/C 100023154|5-T/C 100023531|17-A/G 100045599|24-A/G 100065227|31-T/C 100065691|24-C/T 100066039|22-G/A 100066092|14-C/T 100074069|38-T/C 100106301|19-A/G 6650690|47-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.007575758 0.000000000 0.000000000 0.005263158   
## 6651361|32-G/A 6652061|58-G/A 6652327|54-A/T 6653204|40-A/G 6653393|35-C/A 6653673|65-A/G 6653746|33-C/A 6661305|25-C/G 6664067|16-C/A 6664716|12-T/C 100015645|28-C/T   
## 0.004237288 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100016045|44-C/T 100016331|42-T/C 100017699|11-G/A 100018593|39-G/A 100018814|46-A/G 100019003|20-A/T 100019081|63-A/T 100019377|57-G/A 100019413|55-T/G 100019588|52-G/A 100021006|21-C/T   
## 0.000000000 0.000000000 0.004807692 0.000000000 0.004566210 0.000000000 0.000000000 0.000000000 0.004444444 0.000000000 0.000000000   
## 100021094|7-C/G 100022208|18-A/C 100022310|31-G/A 100022384|48-G/A 100022899|42-C/G 100108128|12-A/T 6650846|64-A/G 6650911|65-G/A 6651088|5-A/C 6651399|12-C/A 6652520|9-A/G   
## 0.000000000 0.000000000 0.004310345 0.000000000 0.000000000 0.004385965 0.000000000 0.000000000 0.000000000 0.000000000 0.008510638   
## 6653133|15-G/A 6653564|53-G/A 6653709|31-G/A 6653720|68-C/A 6653797|40-A/T 6653874|10-G/T 6653907|59-A/G 6653965|43-A/G 100065805|29-G/T 6661880|32-C/T 100015400|35-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.005524862 0.000000000 0.005102041 0.008695652 0.006097561   
## 100016174|6-C/A 100016241|19-C/T 100016653|31-G/A 100017080|12-A/T 100017172|64-G/C 100017659|13-G/A 100017936|42-T/C 100018252|52-A/G 100018331|42-G/A 100019441|49-A/T 100020597|8-T/A   
## 0.000000000 0.000000000 0.000000000 0.004385965 0.000000000 0.000000000 0.004273504 0.008333333 0.000000000 0.004273504 0.000000000   
## 100020814|67-G/A 100022284|10-G/A 100022341|63-A/G 100023203|29-C/G 100023334|6-G/T 100023527|5-T/A 100082625|32-A/G 6631600|18-G/A 6634219|54-C/T 6650605|38-G/A 6650666|57-T/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.013513514 0.008620690 0.000000000 0.009174312   
## 6650850|54-G/C 6651176|17-T/A 6651223|56-T/G 6651266|67-C/T 6651497|13-G/A 6651500|53-T/A 6652020|49-C/T 6652396|20-C/T 6652765|20-C/T 6653179|35-C/A 6653588|36-G/A   
## 0.000000000 0.000000000 0.004166667 0.000000000 0.000000000 0.000000000 0.009009009 0.000000000 0.004329004 0.004484305 0.000000000   
## 6653617|17-C/G 6653803|13-C/G 6653921|17-G/A 6654071|34-C/T 6658453|44-C/T 6662623|41-C/T 100015396|38-G/A 100015614|19-G/A 100015961|7-A/G 100016361|49-G/A 100016600|22-G/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.010526316 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100017130|57-T/G 100017328|47-G/A 100018645|27-A/G 100018647|11-T/C 100019579|57-A/G 100019755|66-T/A 100020516|10-T/C 100021870|45-T/C 100022119|34-G/A 100022158|40-C/G 100022170|46-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004366812 0.000000000 0.004739336 0.000000000 0.000000000   
## 100022467|38-A/C 100022708|55-T/C 100023428|39-C/A 100064901|22-G/A 100066583|50-G/C 100082198|48-A/G 100082209|53-T/A 100114666|37-A/T 6650551|48-A/C 6650640|8-G/T 6651037|14-A/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004926108 0.004115226 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651123|16-G/T 6651198|35-C/T 6651548|20-C/G 6652349|48-A/C 6652912|31-C/T 6652960|9-G/T 6653047|24-C/T 6653111|54-G/C 6653182|48-A/G 6653306|31-C/A 6653329|47-T/C   
## 0.000000000 0.007042254 0.004310345 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004115226 0.000000000   
## 6653695|53-T/C 6657908|24-T/C 6658488|17-G/A 6661172|54-T/C 6661256|38-C/G 6665238|10-A/T 100016051|64-C/A 100016065|42-C/A 100016173|67-C/G 100016227|33-T/G 100016734|15-A/G   
## 0.004329004 0.005154639 0.000000000 0.000000000 0.004201681 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100017686|33-G/C 100017703|8-T/C 100017977|13-T/C 100018439|16-T/C 100020203|19-G/A 100021102|63-A/C 100021231|28-T/G 100021723|29-T/G 100022522|40-C/T 100022709|6-G/A 100045624|6-C/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.004878049 0.000000000 0.000000000 0.004347826 0.000000000 0.000000000 0.000000000   
## 6650668|41-T/C 6650746|17-T/C 6650807|17-C/T 6650886|31-G/A 6650934|11-G/A 6651435|37-C/T 6651778|31-G/A 6651783|65-C/T 6652191|59-C/T 6652464|36-A/G 6652873|35-C/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.004807692 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653077|56-T/C 6653537|32-A/G 6653577|27-G/A 6653747|15-A/G 6661083|6-C/T 6661240|52-C/A 6661424|62-T/C 6661830|19-T/C 6665513|19-G/C 6661486|13-G/C 100015240|23-G/A   
## 0.000000000 0.005376344 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100016947|13-A/G 100018671|65-G/A 100019864|8-C/G 100019949|8-C/T 100020694|31-T/C 100022684|13-T/A 100022926|58-G/T 100023200|68-C/T 100044609|42-A/G 100065342|51-C/T 100066803|48-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004115226 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100085950|35-A/G 100108060|20-G/C 6630419|14-G/A 6650581|35-C/G 6650628|40-T/C 6650650|35-G/T 6650684|65-A/T 6650719|47-G/A 6650735|38-G/C 6650879|60-C/T 6651049|16-C/G   
## 0.000000000 0.000000000 0.004878049 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.006172840 0.000000000 0.000000000   
## 6651124|38-C/T 6651144|62-T/C 6651167|41-A/G 6651516|36-T/G 6651679|24-G/A 6651984|7-T/A 6652023|10-G/A 6652091|50-T/A 6652242|32-G/A 6652409|10-T/C 6653236|64-T/C   
## 0.000000000 0.000000000 0.000000000 0.004219409 0.000000000 0.000000000 0.000000000 0.004545455 0.000000000 0.004366812 0.000000000   
## 6653348|13-G/A 6653637|32-G/T 6653657|58-T/C 6653943|15-G/T 6653959|63-A/G 6654028|68-A/G 6654050|51-G/T 6654072|32-C/A 6657061|32-A/G 6661522|65-A/G 6665120|10-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.004761905 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100120328|20-T/C 100120333|61-G/A 100065668|5-T/C 100015835|6-C/T 100016061|39-G/C 100016656|14-T/C 100017602|16-G/A 100019319|48-T/C 100019777|21-G/C 100021190|47-T/C 100022177|66-A/G   
## 0.000000000 0.011235955 0.000000000 0.000000000 0.008888889 0.000000000 0.000000000 0.011299435 0.000000000 0.000000000 0.000000000   
## 100023241|6-T/C 100044452|9-C/G 100065422|7-G/A 100066442|52-G/A 6650473|26-A/G 6650482|38-T/C 6650496|24-C/T 6650610|24-T/A 6650644|49-A/G 6650834|54-C/A 6650842|16-G/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.007142857 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651138|26-A/T 6651261|54-G/A 6651453|19-A/C 6651597|59-A/G 6651744|34-A/T 6651756|62-G/A 6651812|33-C/T 6651980|42-A/G 6652201|21-C/A 6652243|14-C/G 6652864|38-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004291845 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653219|11-G/C 6653248|20-T/C 6653427|25-A/G 6653971|28-A/T 6657006|6-C/A 6657540|27-G/A 6661088|54-C/T 100082471|46-T/C 6661706|26-T/C 6664071|6-G/A 100016295|41-G/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100018466|44-G/A 100020140|32-T/C 100020690|9-T/G 100020765|38-G/C 100021275|46-C/T 100045738|12-T/A 100082496|60-G/T 6650712|28-A/C 6650913|49-A/G 6650972|30-C/T 6651222|59-G/A   
## 0.004830918 0.004201681 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651438|51-T/C 6651492|20-G/A 6651654|52-A/G 6651829|48-G/A 6651860|44-T/G 6651877|63-C/T 6651935|33-C/T 6651974|35-C/T 6651986|27-T/C 6652262|36-T/C 6652560|9-A/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652688|16-G/A 6652875|8-C/G 6653021|18-A/G 6653263|25-G/C 6653294|9-G/A 6653410|59-G/C 6653536|55-G/A 6653603|22-T/C 6653802|50-G/C 6653830|13-C/T 6653963|35-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004310345 0.000000000 0.000000000 0.014084507   
## 6654043|16-A/G 6658028|40-G/C 6661349|14-C/A 6661568|63-A/T 6661747|28-T/C 6663960|60-T/C 6663980|14-A/G 100019622|48-T/A 100019802|12-C/T 100020020|13-G/A 100021576|15-T/C   
## 0.004424779 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.006578947 0.000000000 0.000000000   
## 100022394|27-C/T 100023389|57-T/G 100023502|39-T/A 100073839|28-C/G 6635439|23-T/C 6650563|22-C/T 6650688|61-A/G 6650747|16-A/C 6650772|42-C/A 6650861|34-T/A 6651030|62-A/T   
## 0.000000000 0.000000000 0.004444444 0.004132231 0.008230453 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651225|58-T/C 6651322|19-G/A 6651329|44-C/A 6651331|12-T/A 6651353|65-C/A 6651374|45-A/G 6651589|18-T/A 6651687|45-A/G 6651748|42-G/T 6651933|62-A/G 6652449|21-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652527|63-C/A 6652542|24-G/C 6652684|46-A/G 6652730|63-C/G 6652782|44-C/T 6652925|43-T/C 6653316|17-T/A 6653365|26-A/G 6653370|22-C/T 6653474|66-G/A 6653556|52-A/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004901961 0.000000000 0.000000000 0.004587156 0.000000000 0.000000000   
## 6653733|18-G/T 6653741|19-T/C 6653765|48-T/C 6653879|16-T/C 6654049|52-T/A 6657335|32-G/A 6658312|10-A/G 6661127|7-A/C 6661289|11-T/C 6661380|15-T/G 6661529|31-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004464286 0.000000000   
## 6661563|46-C/A 6661785|56-A/G 6661832|23-C/T 6663079|11-G/A 6665675|20-A/G 6666102|6-C/T 100121706|16-C/T 100015265|55-C/A 100015554|25-A/G 100017634|45-C/T 100018229|31-T/A   
## 0.000000000 0.000000000 0.004255319 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100018597|37-C/G 100018998|48-T/C 100019106|32-T/C 100093589|24-T/C 6632259|35-G/A 6632582|5-C/T 6650532|52-G/A 6650756|47-A/G 6650830|17-G/A 6650851|66-A/T 6650928|5-A/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6650987|34-A/G 6651080|35-C/T 6651107|37-G/A 6651110|32-G/T 6651196|62-C/A 6651288|46-T/C 6651442|63-C/T 6651613|49-C/A 6651658|42-A/T 6651720|6-A/G 6651765|63-C/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651802|34-G/T 6651873|50-T/C 6651874|53-T/A 6651906|20-T/A 6651943|26-G/A 6651957|58-G/A 6652104|41-C/G 6652143|61-T/G 6652149|28-A/G 6652158|57-C/T 6652181|32-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652211|12-C/T 6652240|22-G/A 6652269|40-C/T 6652459|65-C/T 6652473|56-G/T 6652516|46-A/G 6652757|25-T/C 6652797|7-G/T 6652811|14-C/T 6652891|17-T/C 6652914|32-A/G   
## 0.000000000 0.000000000 0.000000000 0.006756757 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652922|32-G/A 6653051|5-G/C 6653071|48-C/T 6653276|22-T/C 6653337|5-T/C 6653343|21-C/G 6653392|28-C/G 6653404|15-T/C 6653456|52-A/G 6653484|18-G/A 6653641|8-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004166667 0.000000000 0.000000000   
## 6653669|32-C/T 6653732|48-A/T 6653735|8-T/G 6653739|44-G/C 6653814|28-G/A 6653826|65-T/G 6653844|35-A/G 6653895|16-A/G 6653898|20-C/A 6653961|15-T/C 6654048|23-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.005747126 0.000000000   
## 6657273|10-C/G 6657733|25-C/T 6657825|20-A/C 6658114|32-C/G 6658233|5-T/G 6658363|20-A/C 6661157|31-A/G 6661223|43-A/T 6661238|20-T/G 6661454|19-A/G 6661478|59-G/T   
## 0.000000000 0.000000000 0.004115226 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6661581|31-C/T 6661584|33-A/T 6661734|17-A/G 6662610|35-C/T 6663909|13-G/T 6664051|46-A/C 6665119|8-A/G 6666170|15-A/C 6666170|17-G/A 6666170|6-G/A 100018529|16-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.008064516   
## 100019109|54-C/T 100020873|6-C/G 100020968|7-A/G 100021983|42-A/C 100022525|11-T/A 100065722|64-T/C 6650393|5-T/C 6650424|56-T/C 6650439|56-G/A 6650466|32-T/C 6650505|17-A/G   
## 0.000000000 0.000000000 0.000000000 0.004132231 0.000000000 0.005076142 0.005617978 0.000000000 0.000000000 0.000000000 0.006622517   
## 6650506|45-A/C 6650533|15-G/T 6650557|47-G/T 6650621|36-G/A 6650631|22-C/T 6650685|22-A/T 6650724|18-T/A 6650838|22-C/T 6650866|40-T/C 6650867|54-T/C 6650893|22-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6650917|35-C/T 6650920|31-G/C 6651018|30-A/C 6651060|22-T/C 6651146|26-G/A 6651378|67-C/T 6651387|24-T/A 6651391|45-G/A 6651444|17-T/C 6651450|54-T/G 6651457|37-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.005154639 0.000000000 0.000000000 0.000000000   
## 6651484|65-A/G 6651503|6-A/G 6651510|59-A/G 6651537|19-A/C 6651552|29-C/T 6651562|32-G/C 6651569|33-T/G 6651580|22-T/A 6651606|13-T/C 6651612|31-C/T 6651615|24-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651705|42-A/G 6651737|5-C/T 6651892|35-T/C 6651930|26-G/C 6651938|17-A/C 6652055|48-A/G 6652132|43-T/C 6652144|17-G/A 6652212|22-A/G 6652231|38-C/A 6652386|55-C/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652398|40-G/A 6652413|28-C/A 6652427|27-T/A 6652438|68-G/A 6652494|24-T/C 6652515|15-A/G 6652518|57-T/C 6652535|53-G/T 6652564|55-A/G 6652619|16-T/C 6652816|67-C/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.009090909 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652945|37-C/A 6653041|46-A/G 6653142|49-C/A 6653144|56-G/T 6653148|46-A/C 6653163|62-T/C 6653369|63-C/T 6653408|40-T/C 6653429|7-A/G 6653439|17-G/C 6653493|47-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.008264463 0.000000000   
## 6653501|7-C/T 6653502|28-G/C 6653504|7-C/G 6653563|7-T/A 6653593|19-T/C 6653740|20-C/T 6653755|14-T/C 6653790|16-T/G 6653834|11-T/C 6653851|28-A/C 6653936|33-A/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004484305 0.000000000 0.000000000   
## 6653989|22-G/A 6654038|30-G/A 6654047|8-G/A 6654066|45-C/G 6657075|25-A/C 6657215|14-A/T 6657652|33-T/C 6658198|15-T/C 6658380|19-G/A 6658597|10-T/C 6661103|59-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004366812 0.000000000   
## 6661108|53-A/G 6661557|11-G/A 6661627|50-T/C 6661879|7-T/C 6662888|24-C/A 6662892|24-C/T 6664359|17-A/T 6664391|17-A/G 6664780|11-C/T 6665039|22-C/G 6666100|22-C/T   
## 0.004310345 0.004807692 0.000000000 0.006535948 0.000000000 0.000000000 0.000000000 0.000000000 0.004761905 0.000000000 0.000000000   
## 6666102|30-T/C 6654102|57-C/A 100016395|29-T/C 100020724|58-C/T 100022521|22-C/T 100022955|34-C/A 100045457|17-G/A 100073683|46-G/A 100093512|17-C/G 100102305|42-T/G 100121708|34-C/G   
## 0.000000000 0.000000000 0.006578947 0.000000000 0.000000000 0.000000000 0.006329114 0.000000000 0.000000000 0.000000000 0.000000000   
## 6650447|47-T/C 6650456|36-A/G 6650499|21-C/T 6650502|55-C/G 6650518|44-C/T 6650566|9-A/G 6650589|18-C/T 6650595|24-C/T 6650602|41-G/A 6650625|38-T/C 6650630|7-C/G   
## 0.006944444 0.000000000 0.000000000 0.000000000 0.010526316 0.000000000 0.000000000 0.004132231 0.004166667 0.000000000 0.000000000   
## 6650642|21-G/A 6650708|55-C/A 6650731|33-G/A 6650777|15-G/C 6650798|22-T/C 6650874|54-T/G 6650892|52-T/C 6650926|30-T/C 6650951|18-A/G 6650983|20-T/G 6651002|11-G/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004608295   
## 6651006|19-G/A 6651015|9-T/A 6651028|11-C/T 6651064|34-C/G 6651075|68-C/T 6651082|17-A/G 6651108|57-A/T 6651169|15-T/C 6651211|35-G/A 6651214|29-G/C 6651218|36-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.005102041   
## 6651236|9-A/C 6651265|9-G/A 6651293|36-A/T 6651299|48-A/G 6651311|22-C/T 6651316|37-T/G 6651339|7-G/A 6651360|17-C/A 6651411|25-A/G 6651455|40-A/G 6651480|6-A/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004504505 0.000000000   
## 6651535|17-G/C 6651553|40-C/T 6651633|11-G/C 6651642|43-A/C 6651652|13-T/A 6651653|46-A/T 6651666|39-C/A 6651668|54-T/C 6651692|43-T/C 6651779|57-A/G 6651819|25-G/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651894|54-A/G 6651913|20-A/G 6651928|6-C/T 6651950|10-C/T 6651962|57-C/T 6651979|59-G/T 6652004|68-A/T 6652041|41-T/C 6652076|24-T/G 6652082|47-A/G 6652128|6-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.005102041 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652178|42-C/T 6652228|29-C/T 6652229|59-T/C 6652252|11-C/T 6652279|53-A/T 6652302|43-G/A 6652328|42-T/G 6652402|15-A/G 6652405|52-T/C 6652430|41-A/T 6652442|59-A/G   
## 0.016666667 0.000000000 0.004694836 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652444|19-A/C 6652476|42-G/A 6652478|11-G/T 6652495|5-G/A 6652517|8-A/G 6652531|35-T/C 6652633|57-C/A 6652685|43-G/A 6652711|52-C/T 6652775|11-G/A 6652812|20-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.005917160 0.000000000 0.004739336   
## 6652825|12-T/C 6652846|44-A/G 6652876|5-G/A 6652899|47-T/G 6652923|25-T/A 6652938|38-G/A 6652954|34-G/A 6652977|48-A/C 6653056|35-C/G 6653113|5-G/A 6653221|12-A/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653285|45-G/C 6653299|45-T/C 6653300|45-T/C 6653301|16-C/T 6653302|10-C/T 6653314|19-C/A 6653350|22-C/T 6653402|19-G/T 6653488|18-C/T 6653495|56-A/T 6653519|51-A/G   
## 0.000000000 0.008771930 0.000000000 0.004854369 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.007812500 0.000000000   
## 6653534|60-C/T 6653576|42-C/A 6653592|23-G/A 6653671|64-C/A 6653680|17-G/A 6653685|30-G/A 6653711|10-T/A 6653718|49-A/C 6653737|54-G/A 6653753|52-T/C 6653780|36-C/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653880|38-A/G 6653900|13-T/A 6653944|44-G/A 6653977|55-A/G 6653997|67-G/A 6654006|12-T/C 6654014|37-G/A 6654041|11-A/G 6654055|10-A/G 6654086|14-G/A 6654088|35-T/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004878049 0.000000000   
## 6656956|22-A/G 6657047|46-C/T 6657188|43-C/G 6657327|42-G/C 6657536|7-A/G 6657721|47-G/C 6657808|17-T/A 6657912|46-T/G 6658001|44-A/T 6658011|9-C/A 6658107|14-C/G   
## 0.000000000 0.000000000 0.000000000 0.004149378 0.005076142 0.000000000 0.000000000 0.000000000 0.004132231 0.000000000 0.010101010   
## 6658156|5-G/T 6658199|15-T/C 6658229|33-G/T 6658234|5-T/G 6658254|27-T/C 6658284|37-G/A 6658292|22-T/C 6658327|20-A/G 6658407|20-G/A 6658414|11-G/A 6658562|19-G/T   
## 0.000000000 0.000000000 0.004166667 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6658586|32-A/C 6658643|11-C/T 6658671|14-C/T 6661089|25-T/C 6661118|54-A/G 6661135|53-G/A 6661189|30-T/C 6661215|39-T/G 6661222|65-T/A 6661248|53-C/G 6661249|13-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6661292|48-T/C 6661362|55-T/C 6661374|18-A/G 6661410|32-G/T 6661422|22-C/T 6661440|5-C/T 6661444|36-A/G 6661467|8-T/G 6661491|67-G/C 6661502|37-A/T 6661590|51-A/C   
## 0.000000000 0.000000000 0.005988024 0.000000000 0.004587156 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6661599|28-A/G 6661630|50-G/A 6661635|15-T/C 6661640|37-T/A 6661680|9-C/G 6661723|32-C/T 6661736|14-G/C 6661758|19-G/A 6661804|60-A/G 6661810|40-A/C 6661811|44-T/A   
## 0.005208333 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004166667 0.000000000   
## 6661811|67-G/A 6661833|57-C/T 6661841|11-G/A 6661855|40-T/C 6661864|19-T/A 6661882|41-A/G 6661883|8-G/A 6661885|20-A/T 6662600|6-A/G 6662722|30-G/C 6662742|10-A/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004405286 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6662844|10-A/C 6662885|9-G/T 6662886|27-C/T 6662910|18-C/G 6662926|18-T/C 6663096|18-A/T 6663907|45-A/G 6663910|8-C/T 6663965|32-C/T 6663983|49-G/C 6663986|51-T/A   
## 0.004237288 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6664025|20-C/T 6664038|20-G/A 6664063|32-G/A 6664295|6-G/A 6664431|31-A/G 6664713|15-G/A 6665122|10-A/C 6665220|17-C/T 6665221|28-T/C 100109498|18-A/G 100109477|15-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100109477|9-A/C 6665568|14-T/C 6665571|10-T/C 6665805|26-C/G 6666099|20-C/T 6666516|59-G/A 100124929|12-A/G 100016665|5-A/G 100016860|40-G/A 100019055|15-C/A 100019486|67-T/C   
## 0.000000000 0.000000000 0.004366812 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100020835|48-C/G 100044994|33-G/A 100064828|9-G/T 100064931|32-G/A 100065941|26-T/C 100073522|28-A/G 100081694|12-C/T 100093694|8-T/G 100114698|38-A/T 100121709|38-A/G 6631771|63-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6643511|8-T/C 6650389|25-A/G 6650408|50-C/T 6650436|33-G/A 6650531|50-G/A 6650573|57-G/A 6650637|15-T/C 6650654|52-A/C 6650710|46-T/G 6650720|22-A/T 6650779|16-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004184100 0.000000000   
## 6650822|27-G/A 6650832|27-T/C 6650901|27-G/A 6650902|39-G/T 6650937|10-A/G 6650960|65-A/G 6651019|62-A/G 6651142|65-T/C 6651204|9-G/A 6651227|47-C/T 6651280|20-T/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651418|16-G/T 6651508|15-G/T 6651574|38-G/T 6651577|11-A/G 6651598|31-T/C 6651697|15-C/T 6651725|7-T/C 6651760|20-A/T 6651762|50-A/G 6651788|15-A/G 6651792|9-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.006535948 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651793|43-T/C 6651862|51-C/T 6651882|23-G/A 6651884|35-A/C 6651903|16-A/G 6651924|35-T/C 6651929|41-G/T 6651993|33-G/A 6651998|13-G/T 6652029|51-G/A 6652043|18-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.004424779 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652138|37-A/G 6652167|65-C/G 6652206|59-C/A 6652238|26-C/T 6652289|28-A/T 6652298|67-A/G 6652307|44-C/A 6652334|58-A/T 6652336|15-C/A 6652366|34-C/A 6652425|29-A/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004716981 0.000000000 0.000000000   
## 6652524|49-C/T 6652588|40-G/T 6652613|43-C/G 6652632|21-A/G 6652778|29-G/A 6652802|13-A/T 6652819|42-A/C 6652826|14-T/C 6653026|52-G/C 6653068|62-G/C 6653116|22-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004464286 0.000000000 0.000000000   
## 6653218|66-C/G 6653354|23-C/A 6653444|44-G/T 6653464|25-A/G 6653494|25-G/A 6653568|59-G/C 6653672|51-G/T 6653690|24-G/C 6653700|47-T/C 6653713|41-T/C 6653736|20-T/A   
## 0.000000000 0.004329004 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653875|30-C/T 6653968|66-C/G 6653974|33-T/A 6653991|65-G/T 6657021|28-G/A 6657102|16-C/T 6657128|18-G/A 6657132|5-A/C 6657178|34-G/A 6657193|53-C/T 6657201|19-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.007142857 0.004739336 0.000000000 0.000000000   
## 6657204|30-A/C 6657318|9-G/A 6657354|8-C/T 6657383|35-G/T 6657458|5-C/G 6657566|43-G/A 6657607|43-G/A 6657631|9-G/A 6657655|8-T/C 6657745|21-C/A 6657813|21-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6657950|26-T/C 6658016|18-C/G 6658025|28-G/A 6658074|26-C/A 6658086|13-T/C 6658116|19-T/G 6658140|8-T/C 6658176|39-C/T 6658256|13-G/C 6658270|50-G/T 6658309|15-G/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6658382|35-G/A 6658386|9-G/T 6658396|48-A/T 6658416|19-T/C 6658448|12-A/G 6658539|20-A/G 6658593|6-T/C 6658605|5-T/A 6658616|40-G/T 6658646|18-C/A 6661133|7-C/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6661179|34-A/T 6661195|26-A/G 6661294|16-G/T 6661342|14-G/C 6661347|62-A/G 6661359|29-T/C 6661360|12-T/C 6661375|25-G/A 6661390|29-G/A 6661411|10-A/T 6661415|7-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6661429|43-A/G 6661461|24-A/G 6661525|21-A/G 6661561|6-A/G 6661611|46-A/C 6661622|45-G/T 100097038|21-G/A 6661741|18-C/T 6661767|9-T/C 6661768|5-T/C 6661780|15-A/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.005025126 0.000000000 0.008849558 0.000000000 0.000000000 0.000000000 0.000000000   
## 6661784|18-A/G 6661801|15-C/T 6662572|23-G/A 6662577|20-C/A 6662598|13-T/G 6662619|18-C/T 6662621|6-C/T 6662686|27-C/T 6662729|33-C/T 6662743|22-C/T 6662903|44-T/C   
## 0.005988024 0.000000000 0.000000000 0.000000000 0.000000000 0.013157895 0.000000000 0.006134969 0.004166667 0.000000000 0.000000000   
## 6664062|57-T/C 6664077|54-G/T 6664087|35-A/T 6664282|11-G/A 6664352|17-T/G 6664715|34-G/A 6665049|6-C/T 6665121|17-A/G 6665508|35-A/G 6665515|61-A/G 6665540|8-G/A   
## 0.007194245 0.000000000 0.000000000 0.004807692 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004524887 0.000000000   
## 6665849|33-C/T 6666095|7-A/G 6666174|7-C/T 6666520|31-G/A 100015941|21-T/C 100016251|35-G/A 100016732|29-G/A 100045346|24-C/T 100045582|33-G/A 100045632|7-G/A 100064767|54-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004132231 0.000000000 0.004694836 0.000000000   
## 100064928|53-G/A 100065927|39-C/T 100074119|31-T/C 100082416|45-C/A 100085968|36-G/A 100091287|38-A/T 100093420|8-G/A 100104859|48-T/C 100121707|24-C/G 6650478|7-C/T 6650577|59-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6650765|26-G/A 6651007|49-A/G 6651119|61-A/G 6651133|33-C/T 6651237|16-C/T 6651693|21-C/T 6651704|49-G/T 6651952|32-C/T 6652155|42-G/C 6652275|21-C/T 6652283|16-C/T   
## 0.000000000 0.000000000 0.004524887 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652292|40-G/A 6652303|27-C/T 6652553|13-A/G 6652626|33-A/G 6652630|7-G/C 6652656|7-T/C 6652758|10-G/A 6653200|23-C/A 6653877|30-A/G 6653984|20-G/T 6656875|8-A/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004201681 0.000000000   
## 6656924|30-G/C 6656996|5-A/T 6657117|41-C/T 6657154|6-G/A 6657156|29-A/C 6657483|18-T/G 6657561|6-C/T 6657735|31-T/A 6657741|7-G/A 6657814|9-A/G 6657850|12-C/G   
## 0.000000000 0.000000000 0.000000000 0.007751938 0.000000000 0.000000000 0.000000000 0.000000000 0.004694836 0.004255319 0.000000000   
## 6657942|13-C/G 6657997|45-C/T 6658062|30-T/G 6658550|29-A/G 6658582|12-C/G 6658632|5-T/C 6661273|54-T/A 6661308|52-T/C 6661408|14-C/T 6661538|9-G/A 6661791|66-G/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.010309278 0.000000000 0.000000000 0.000000000   
## 6661818|22-G/A 6662638|5-A/G 6662824|38-C/T 6662887|8-G/C 6663037|41-C/G 6664882|7-A/C 6665050|32-A/T 6665295|5-T/C 100019888|47-T/C 100045453|46-G/A 100045704|9-A/G   
## 0.000000000 0.000000000 0.004273504 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100064586|17-G/C 100066059|7-C/T 100074054|47-T/A 100082120|8-T/C 100086057|9-A/G 100086096|24-G/T 100093333|41-G/C 100098548|28-A/G 100104693|28-T/A 100104890|20-C/A 100106918|8-T/C   
## 0.000000000 0.000000000 0.010638298 0.000000000 0.004255319 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100086278|15-A/T 100098561|7-T/A 100112393|13-T/C 6665409|19-C/A 100106209|11-T/A 6652014|36-G/A 100016895|29-G/A 6661843|44-G/A 6652389|64-T/C 6661649|50-A/C 6657666|21-A/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.012552301 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6661268|63-T/G 100023082|28-G/T 100017188|42-C/G 6661288|45-T/C 100021319|48-T/G 100045470|27-C/T 6661435|57-G/T 100065514|5-T/C 6630387|13-C/T 100065726|10-C/T 6653782|5-C/T   
## 0.000000000 0.000000000 0.004464286 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.006756757   
## 100021899|36-A/T 100066454|16-G/T 100065272|30-T/C 100066129|22-G/A 6653374|61-T/C 6664733|54-T/A 100022349|67-T/A 100015942|46-A/C 100016792|52-G/C 100018206|33-G/A 100064825|31-G/T   
## 0.000000000 0.000000000 0.000000000 0.006578947 0.000000000 0.012422360 0.000000000 0.000000000 0.004464286 0.000000000 0.000000000   
## 100066202|30-T/C 100073401|49-C/A 6633382|47-T/C 100021640|61-G/C 100022856|29-A/C 100023978|37-A/T 6652591|64-T/C 6661464|50-T/A 100015796|50-T/A 100016769|29-T/C 100019373|29-G/A   
## 0.000000000 0.000000000 0.006944444 0.000000000 0.000000000 0.004545455 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100023055|35-A/T 100097014|5-T/G 6661225|60-T/C 6661548|33-A/T 100017088|61-C/T 100023509|31-T/C 100015492|43-G/A 100018948|22-T/C 100020108|6-G/A 100020234|29-G/C 100021104|60-G/C   
## 0.000000000 0.004444444 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004464286   
## 100022438|10-G/T 100065777|27-G/T 6634350|32-G/T 100015248|33-A/G 100016465|17-G/A 100016470|38-G/A 100017055|22-C/A 100020326|38-A/G 100020580|5-T/G 100020916|54-A/T 100022162|26-G/C   
## 0.004219409 0.000000000 0.004807692 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100022968|12-G/A 100023214|50-T/C 100023558|48-A/G 100065527|10-A/G 100108046|10-C/G 6652805|19-C/T 6653649|51-C/A 100016806|34-T/C 100016973|34-G/A 100017185|9-C/T 100019652|10-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.008849558 0.000000000   
## 100020977|12-T/C 100021791|20-G/A 100064895|33-A/T 100064988|25-T/C 6653972|28-A/G 6658602|21-G/C 100015510|28-A/T 100016175|6-T/C 100016191|14-G/A 100018397|31-G/T 100019542|48-A/C   
## 0.004504505 0.005050505 0.000000000 0.000000000 0.005208333 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100020295|21-C/T 100020374|38-T/C 100021678|59-A/G 100066638|43-T/G 6653330|11-G/A 100015953|68-T/C 100016139|30-C/T 100016326|61-C/T 100016487|19-G/T 100016577|32-A/G 100016760|26-T/A   
## 0.000000000 0.000000000 0.000000000 0.004237288 0.000000000 0.000000000 0.000000000 0.005154639 0.000000000 0.005376344 0.000000000   
## 100016954|51-G/A 100017145|65-A/G 100017289|41-G/C 100017927|57-A/G 100019119|41-A/C 100019129|28-A/G 100020392|13-C/T 100021327|23-G/A 100022094|8-A/T 100023476|68-C/T 100065094|17-G/A   
## 0.000000000 0.000000000 0.000000000 0.007633588 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004504505 0.000000000   
## 100082310|17-G/A 100091292|53-C/T 6633859|61-C/G 6651602|9-A/G 6653320|67-A/G 100015805|62-G/A 100016005|36-T/C 100017432|35-A/G 100019685|30-C/T 100020281|34-T/C 100020816|17-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.005263158 0.000000000 0.012987013 0.000000000 0.000000000 0.000000000 0.000000000   
## 100020920|57-A/G 100021124|31-G/T 100021513|63-A/G 100021836|10-G/A 100022515|43-C/T 100023216|57-G/T 100023496|7-C/T 100023681|60-G/A 100065088|33-A/T 100065666|45-T/C 100066471|53-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.008771930 0.000000000   
## 6652033|13-A/C 6661430|6-G/T 6661570|26-C/T 6661730|63-G/C 100016186|12-C/A 100016774|44-T/A 100017111|47-A/G 100017208|21-G/A 100017523|52-T/C 100017874|53-A/G 100018144|64-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.010309278 0.008620690 0.004310345   
## 100018225|53-A/G 100018942|41-G/T 100019677|5-A/G 100022269|27-A/T 100066082|15-C/A 100066253|43-C/A 100066444|14-G/A 100114672|22-C/T 6651282|60-A/T 6651428|21-T/C 6652874|33-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100015264|22-A/T 100015814|11-C/G 100015850|40-T/C 100016120|45-G/A 100017115|64-C/T 100017958|17-G/A 100018308|19-A/G 100018683|52-C/T 100019218|10-T/C 100019222|23-G/C 100020050|41-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100020331|13-C/T 100020335|6-A/C 100021226|41-T/G 100021502|29-G/A 100021862|6-G/A 100021994|17-A/G 100022357|61-G/A 100022781|47-C/T 100023182|23-A/G 100023311|52-A/T 100023534|68-C/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.007874016 0.008888889 0.000000000 0.000000000   
## 6653500|12-A/G 6661123|54-G/C 6665401|24-G/T 100015499|31-G/A 100015907|12-G/C 100016631|34-T/C 100019009|45-G/A 100019123|42-G/A 100019424|28-A/G 100019445|67-A/C 100019654|17-C/T   
## 0.000000000 0.000000000 0.014925373 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100020359|57-A/G 100020876|63-C/T 100022261|20-C/T 100022625|36-A/G 100023251|49-T/A 100090852|5-C/T 6653799|6-G/A 6661647|17-A/C 100015702|42-C/T 100015896|29-T/C 100016097|8-A/G   
## 0.007633588 0.004347826 0.000000000 0.000000000 0.000000000 0.013513514 0.000000000 0.000000000 0.004166667 0.000000000 0.000000000   
## 100016416|52-T/A 100016914|9-T/G 100017736|15-G/C 100018093|40-G/C 100018383|12-A/G 100018805|31-A/G 100018914|23-G/A 100019000|63-T/G 100019412|18-C/T 100019519|62-G/C 100019671|36-A/G   
## 0.000000000 0.004166667 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.005102041   
## 100019895|42-T/C 100020000|31-A/G 100020210|64-C/T 100021670|11-G/A 100021761|67-C/T 100022043|14-T/A 100022106|27-G/A 100022213|48-C/T 100022452|60-C/T 100022997|31-G/A 100065791|46-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004672897 0.000000000 0.000000000 0.000000000   
## 100066265|30-T/C 100066487|11-G/A 100101063|5-T/C 6634524|57-T/A 6652255|33-A/G 6661618|12-C/T 100015912|66-G/T 100015914|56-A/G 100016606|50-T/C 100016946|25-C/A 100017520|47-T/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004545455 0.000000000 0.000000000 0.000000000   
## 100018722|5-C/A 100019526|9-G/A 100019891|44-C/T 100020909|55-A/T 100020985|50-A/G 100021139|33-G/C 100021214|56-G/A 100021255|31-C/T 100021313|59-A/C 100022420|43-T/C 100022458|29-G/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004405286 0.000000000 0.000000000 0.000000000   
## 100022624|40-G/C 100022691|40-C/T 100023114|8-T/A 100023164|37-T/C 100023165|10-C/T 100023475|55-A/G 100024879|34-A/G 6650963|31-A/G 6650995|35-T/C 100015203|28-T/C 100015415|9-G/T   
## 0.000000000 0.000000000 0.004201681 0.000000000 0.000000000 0.000000000 0.004566210 0.000000000 0.000000000 0.000000000 0.000000000   
## 100015496|59-G/T 100015847|60-G/C 100015873|28-A/C 100015977|34-A/G 100016012|21-A/C 100016160|65-G/A 100016617|11-C/G 100016919|15-T/A 100016933|17-A/C 100017138|9-G/C 100017592|13-G/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004464286 0.004424779 0.000000000   
## 100017929|18-A/C 100018201|42-T/G 100018285|15-G/A 100018596|39-G/A 100018944|19-C/A 100019340|48-A/G 100019515|10-G/A 100019761|17-G/A 100019817|32-A/G 100020455|16-G/A 100020993|47-T/C   
## 0.004784689 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.005376344 0.000000000 0.000000000   
## 100022157|60-A/G 100023102|7-C/T 100045024|30-A/C 100065312|53-G/T 100066063|67-C/T 100066423|46-G/A 6634305|33-C/G 6651275|16-A/C 6652010|36-G/A 6661116|34-A/C 6664719|65-C/G   
## 0.008695652 0.000000000 0.000000000 0.000000000 0.005988024 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100015734|66-G/C 100015877|41-T/C 100016028|28-G/T 100016794|51-C/G 100016930|62-C/T 100016976|17-C/G 100017073|58-C/A 100017352|5-T/A 100017471|13-G/C 100017594|43-T/C 100017596|13-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.004115226 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100018057|54-A/T 100018384|20-C/A 100018436|8-C/T 100018459|29-C/T 100018601|57-C/A 100018886|5-G/C 100019401|38-C/A 100019538|40-A/G 100019682|13-G/C 100019773|68-G/T 100019884|7-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100020084|63-C/A 100020358|5-G/C 100020410|17-G/T 100020846|22-A/G 100021982|22-G/C 100022352|35-G/C 100023106|5-T/A 100023435|47-T/A 100023548|13-A/T 100064672|55-C/T 100091227|51-T/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.007812500 0.000000000 0.000000000 0.000000000 0.000000000   
## 100121014|17-C/T 6653240|15-A/T 100015605|26-A/G 100015623|29-T/A 100015712|9-A/T 100015915|16-G/C 100016293|25-T/A 100016319|36-T/C 100016723|21-C/T 100017173|15-T/A 100017697|22-G/A   
## 0.015748031 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.012987013 0.000000000 0.000000000 0.006578947   
## 100018492|22-T/C 100018548|16-C/T 100018796|68-C/T 100018865|11-C/A 100018936|13-C/T 100019019|18-A/G 100019086|21-G/A 100019131|12-T/C 100019765|29-C/T 100019951|22-C/T 100020346|50-T/C   
## 0.004310345 0.000000000 0.009009009 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004587156 0.000000000   
## 100021253|53-T/C 100021441|53-T/C 100021634|50-A/C 100021664|5-T/C 100021900|25-G/C 100021918|16-G/C 100021944|59-G/C 100022064|57-C/T 100022439|9-G/A 100022958|60-G/A 100023335|10-T/C   
## 0.000000000 0.004329004 0.000000000 0.005617978 0.000000000 0.000000000 0.004716981 0.000000000 0.004219409 0.004347826 0.000000000   
## 100066167|17-A/C 6652225|65-T/C 6653132|37-C/T 6653692|35-T/A 6661742|53-G/T 6663972|39-G/A 6664076|30-T/C 100015254|42-A/G 100015421|66-C/T 100017443|50-T/A 100018227|9-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.009090909 0.000000000 0.000000000 0.000000000   
## 100018684|33-T/C 100019036|18-A/C 100019346|5-C/T 100019642|57-C/T 100020216|59-T/G 100020462|12-G/T 100020825|41-T/A 100021447|5-C/T 100021487|10-A/G 100022350|27-C/T 100022637|44-C/T   
## 0.004444444 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100022974|38-G/A 100023108|17-G/A 100023245|57-A/T 100023390|19-G/A 100023533|34-T/C 100064760|51-A/T 100064984|7-A/T 6635254|28-C/T 6650882|51-G/T 6651794|65-C/A 6652456|5-G/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.005076142 0.000000000 0.000000000 0.000000000 0.004310345 0.000000000 0.000000000   
## 6652956|28-T/C 6653074|11-G/T 6653246|55-C/T 6653257|11-T/C 6653558|37-T/C 6653841|24-C/G 6661717|50-A/G 100015306|34-G/T 100017026|18-T/C 100017183|63-A/C 100017740|39-T/C   
## 0.000000000 0.004608295 0.000000000 0.000000000 0.000000000 0.004329004 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100018186|14-G/A 100018502|54-A/C 100019407|9-A/G 100019597|22-G/T 100019799|11-C/T 100020064|5-A/G 100020467|61-C/G 100021342|19-T/G 100021726|23-G/T 100021853|38-A/G 100022073|47-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004830918 0.000000000   
## 100022174|61-T/C 100022237|64-T/G 100022450|28-C/T 100023247|11-G/A 100024830|48-A/T 100065475|5-A/C 100065743|19-C/T 6651542|50-G/C 6652006|5-C/A 6652136|34-G/A 6652490|28-C/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653164|33-G/T 6661138|57-G/A 6661286|13-C/T 100015294|55-T/C 100015312|26-G/C 100015717|58-T/C 100016035|58-C/T 100017166|55-C/G 100017336|19-C/T 100017436|6-T/A 100018333|8-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004219409 0.000000000 0.000000000 0.000000000   
## 100018623|26-G/A 100018949|25-G/A 100019179|31-T/A 100019378|46-T/C 100019715|11-C/T 100020007|20-C/A 100020186|42-A/T 100020325|12-G/A 100020984|22-A/T 100021063|19-C/T 100021116|47-G/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100021276|48-T/C 100021323|21-A/G 100023352|36-C/T 100023524|20-T/A 100064607|25-T/A 100064666|61-G/A 100066449|6-A/G 100104023|51-G/T 6651556|12-T/C 6651732|66-T/C 6652161|13-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.015384615 0.000000000 0.000000000 0.000000000 0.000000000 0.011764706 0.000000000   
## 6653042|9-A/T 6661220|17-G/T 100015287|46-T/C 100015379|18-A/G 100015449|18-T/C 100016230|18-C/G 100016245|55-T/C 100016437|62-T/C 100017249|15-G/A 100018724|8-T/C 100018729|20-A/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004484305 0.000000000 0.000000000   
## 100018771|32-C/T 100019308|38-T/C 100019625|33-C/T 100019716|25-C/T 100020654|61-G/A 100021098|19-A/T 100021170|5-G/C 100021240|55-G/C 100021330|41-C/T 100021985|6-G/C 100022470|47-C/T   
## 0.000000000 0.000000000 0.004166667 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100022786|9-C/T 100022992|63-G/C 100023087|65-T/C 100023089|12-A/T 100065113|20-C/T 100065660|34-T/C 100082081|14-T/C 6650676|61-A/G 6650683|35-G/A 6650847|62-G/T 6651376|46-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.004329004 0.000000000 0.000000000 0.004524887 0.000000000 0.000000000 0.000000000   
## 6651698|17-A/G 6652341|11-G/A 6652418|6-T/A 6652657|13-T/C 6653549|37-G/A 6653926|47-C/T 6661137|45-A/G 6661795|29-A/G 6664067|38-C/T 100015300|34-C/G 100015553|64-G/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100015662|64-G/A 100015747|67-T/C 100016172|45-C/A 100016321|25-T/C 100016379|15-C/T 100016524|6-T/G 100016678|13-G/A 100017389|39-C/A 100017447|10-T/G 100018638|48-T/C 100019669|13-T/C   
## 0.000000000 0.000000000 0.000000000 0.006134969 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.005649718 0.000000000   
## 100021395|62-G/A 100021505|40-T/C 100021653|13-T/G 100021672|31-T/C 100022109|34-G/A 100022563|58-C/T 100022828|22-T/C 100023017|29-A/T 100066440|62-C/G 100066652|41-G/A 100096906|18-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.006250000 0.000000000 0.000000000 0.000000000 0.004166667 0.000000000   
## 6630114|53-A/C 6650736|10-G/T 6651252|16-C/T 6653034|28-A/G 6653152|22-C/A 6653197|10-T/C 6653543|62-T/A 6653729|12-T/C 6658435|49-C/A 6661280|18-T/C 6661782|19-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.005555556 0.000000000   
## 100015470|41-C/T 100016237|28-C/A 100016452|17-G/A 100016620|23-T/C 100016680|26-G/A 100016867|47-C/T 100016970|8-C/T 100018066|41-A/G 100018458|45-C/T 100018598|40-C/T 100019260|10-C/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100019313|6-T/C 100020459|17-G/C 100022183|15-A/C 100022219|59-T/A 100022324|20-A/T 100022476|18-T/C 100022820|44-T/C 100065830|50-G/A 100073534|35-A/T 100108129|53-C/A 6631518|25-C/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6650419|25-C/G 6650596|64-G/T 6650922|18-T/C 6650997|7-A/G 6651758|26-G/A 6652094|60-T/C 6652276|10-G/A 6652446|14-G/A 6652850|15-T/C 6652911|22-A/G 6653387|31-C/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.008968610 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653442|7-A/G 6653457|43-C/T 6653666|33-A/G 6653913|54-A/G 6661714|10-A/T 6661819|18-T/C 6665305|19-G/A 100015271|40-A/G 100015651|23-C/T 100016940|6-T/G 100017024|68-G/A   
## 0.005076142 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100018261|61-T/C 100018474|24-G/A 100018954|18-A/G 100019606|34-G/A 100019837|9-G/A 100020506|37-T/A 100020651|11-C/G 100021368|14-C/T 100021399|20-A/C 100021433|22-A/C 100021823|21-T/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.007575758 0.000000000 0.000000000 0.000000000   
## 100022483|30-T/A 100022774|66-T/G 100023022|43-C/T 100023206|43-A/G 100023292|16-A/G 100023396|25-C/T 100024289|11-T/C 100045482|25-C/T 100065022|34-A/G 100065562|43-G/A 100065795|26-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004291845 0.000000000   
## 100066292|25-T/C 100073974|41-A/C 100082647|16-C/A 6650814|43-G/C 6650908|37-A/C 6651113|11-C/G 6651346|28-A/T 6651709|24-A/G 6652049|29-T/C 6652500|45-G/T 6652777|22-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.006578947 0.000000000 0.000000000   
## 6653333|13-T/C 6653390|14-T/G 6653414|31-T/C 6653728|20-G/T 6654032|23-T/G 6654037|57-A/G 6657904|10-G/C 6661607|55-C/A 6661700|18-G/A 6662767|16-T/C 6664074|40-T/G   
## 0.000000000 0.000000000 0.000000000 0.004201681 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6664074|44-G/C 6664735|26-T/G 6665238|34-T/C 100124938|57-G/A 100015346|10-T/A 100016456|52-G/C 100016501|31-A/T 100017004|22-C/T 100017283|39-T/G 100017322|41-G/A 100017407|26-G/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100017421|12-A/G 100018243|9-T/C 100018879|32-C/A 100019658|67-A/G 100020347|21-G/C 100021567|15-A/G 100021727|64-T/A 100023434|25-T/C 100066346|64-T/C 100066369|51-A/G 100066626|37-G/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6631525|11-C/T 6650677|49-C/T 6650829|66-C/T 6650865|22-G/T 6651274|64-A/G 6651327|26-G/A 6651363|38-T/A 6651684|66-A/G 6652046|31-A/G 6652267|48-T/C 6652284|17-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652529|31-T/C 6652900|9-A/G 6653610|43-G/T 6653665|46-C/T 6653751|12-A/T 6653876|40-A/G 6654005|53-G/A 6654018|46-G/A 6661150|29-C/G 6661536|5-G/A 6664750|33-C/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100103994|12-C/T 100103994|20-G/A 100104021|9-A/G 100015729|18-T/G 100015952|21-T/A 100016302|16-G/A 100016507|10-G/T 100016962|46-C/T 100017543|65-T/C 100018176|18-T/A 100018259|44-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.004291845 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100019881|23-C/A 100019923|11-A/T 100020081|6-T/A 100020349|28-G/T 100022424|20-G/A 100023400|43-G/T 100044682|9-A/G 100044750|30-A/G 100065250|9-G/T 100065326|31-T/A 100065589|31-A/G   
## 0.004329004 0.000000000 0.000000000 0.000000000 0.005050505 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100066526|17-G/A 100091166|12-G/A 100091166|42-A/G 6650613|48-C/T 6650687|41-T/G 6650796|6-C/T 6650803|47-G/C 6651101|36-C/G 6651528|20-A/T 6651771|12-T/C 6651853|15-T/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652025|35-C/T 6652815|7-T/G 6652936|53-A/C 6653177|8-T/G 6653241|40-G/T 6653293|49-G/A 6653307|12-A/G 6653389|28-A/G 6653538|48-T/C 6653579|57-T/A 6653832|7-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6661683|57-A/G 6661685|63-G/A 6661816|48-A/G 6661824|42-G/C 6661850|36-A/T 6661890|47-A/G 6665337|42-A/G 100015757|13-C/T 100016204|33-T/C 100017468|57-G/T 100017967|62-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100018112|46-A/C 100018165|13-C/T 100018718|21-G/A 100019849|5-G/A 100019859|8-G/A 100022136|24-T/C 100022312|53-T/C 100045521|11-T/G 100065432|12-T/G 100065536|20-G/A 100066606|52-G/T   
## 0.005025126 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100082316|6-G/A 100082368|14-T/G 100097022|6-T/C 100108129|36-G/A 6631225|7-T/C 6631997|14-C/T 6650612|10-C/T 6650648|12-C/G 6651035|6-G/A 6651242|13-G/A 6651289|37-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651290|54-T/A 6651373|58-C/T 6651393|29-G/A 6651401|31-A/G 6651427|13-G/A 6651437|43-G/C 6651445|36-G/T 6651476|13-C/T 6651646|25-A/G 6651749|48-G/A 6651841|8-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652088|32-C/T 6652192|52-C/A 6652260|63-T/C 6652326|50-G/A 6652369|31-T/C 6652422|33-T/C 6652547|9-G/T 6652893|32-T/A 6652909|24-T/G 6652955|18-G/C 6653017|55-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004444444 0.000000000 0.000000000 0.000000000 0.000000000 0.004464286   
## 6653103|52-T/G 6653677|36-T/C 6653708|16-C/G 6653903|37-A/G 6653934|25-C/T 6654040|14-T/C 6654091|9-T/C 6657832|39-T/C 6661183|41-T/C 6661274|44-G/C 6661675|22-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6663998|37-C/T 6664011|37-G/C 100016463|53-T/C 100016812|38-G/A 100017567|49-A/C 100017961|50-G/T 100018143|16-G/A 100019099|54-T/G 100019383|33-G/T 100019940|39-C/T 100020427|36-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004166667 0.000000000 0.000000000   
## 100020660|8-T/A 100020677|22-A/G 100021361|48-T/C 100021511|43-C/T 100021828|33-C/A 100022057|11-A/G 100022783|26-C/T 100064616|40-A/G 100065171|45-C/G 100065966|15-C/G 100082527|51-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100082585|40-G/A 100106949|10-G/A 100117044|51-G/C 6650418|9-G/T 6650423|29-A/G 6650818|67-C/T 6651153|49-G/T 6651180|65-A/T 6651287|48-A/C 6651447|19-T/C 6651655|40-A/G   
## 0.000000000 0.009345794 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651717|7-T/C 6651971|61-A/G 6651981|50-T/G 6652195|35-T/C 6652270|30-C/T 6652411|8-G/A 6652419|17-C/T 6652451|65-G/A 6652920|22-G/A 6653067|56-T/C 6653377|17-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653583|28-T/C 6653636|14-A/G 6653697|13-T/C 6653731|66-C/T 6653767|20-G/C 6653770|20-C/G 6653784|35-T/C 6653810|62-C/A 6653854|42-T/C 6653892|54-G/A 6653910|50-T/C   
## 0.004830918 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6654022|30-A/G 6661470|52-C/A 100066269|13-T/C 6662979|27-T/C 6664013|56-T/C 6664771|32-C/T 6665036|59-T/C 100015387|20-A/C 100016289|59-C/A 100017196|51-G/T 100017527|6-T/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100017670|46-C/A 100018265|14-C/T 100018491|67-A/C 100019232|26-T/C 100019318|16-T/A 100019703|50-G/A 100019708|6-A/G 100019897|65-G/A 100020477|33-C/T 100022633|31-A/G 100023423|28-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004115226 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100064644|53-C/T 100065127|11-C/T 100082124|16-C/G 6632526|27-G/T 6650445|31-C/T 6650584|38-A/G 6650848|20-G/A 6651173|50-C/A 6651298|24-T/G 6651530|41-T/C 6651782|31-G/A   
## 0.000000000 0.000000000 0.000000000 0.008733624 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651907|9-T/C 6652024|30-A/G 6652131|34-G/A 6652159|67-C/T 6652177|21-C/T 6652210|27-C/A 6652401|28-T/A 6652416|68-C/G 6652713|26-G/C 6652866|10-G/A 6652983|43-C/A   
## 0.000000000 0.000000000 0.004739336 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653039|43-G/C 6653044|17-A/G 6653092|18-T/C 6653202|68-T/A 6653253|13-C/G 6653255|39-G/T 6653445|25-C/G 6653487|29-C/T 6653527|21-G/A 6653922|36-T/C 6653930|13-A/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6654013|57-T/G 6657669|38-C/T 6658619|38-A/G 6661144|14-T/C 6661228|61-G/A 6661239|28-A/G 6661757|61-G/A 6661837|5-T/C 6663958|42-G/C 6664017|22-C/T 6665345|60-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.005617978 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6665563|37-A/C 6665563|41-G/A 6665563|7-C/T 6666102|24-A/G 100015848|14-C/A 100016751|21-G/A 100017832|10-T/C 100017856|21-A/G 100018301|7-A/G 100019450|10-C/A 100019818|16-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.008064516   
## 100019983|13-A/G 100020502|50-G/A 100020602|47-A/G 100065169|68-T/C 100066267|15-G/A 100066657|20-C/G 6632946|54-T/A 6650395|54-T/C 6650450|36-T/C 6650539|5-T/C 6650675|13-G/T   
## 0.008510638 0.000000000 0.000000000 0.000000000 0.004484305 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6650760|49-T/G 6650770|63-T/C 6650778|15-A/G 6650888|42-T/A 6650948|22-G/A 6651067|68-T/C 6651104|14-T/C 6651269|64-A/G 6651380|66-C/A 6651460|39-T/A 6651469|31-G/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651565|25-G/T 6651594|47-T/G 6651714|59-A/T 6651809|19-T/C 6651814|64-A/G 6652119|10-C/T 6652183|53-C/T 6652218|58-G/A 6652272|46-C/A 6652443|56-C/T 6652587|38-G/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.004310345 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652614|24-T/A 6652643|8-A/T 6652647|54-C/A 6652695|37-C/T 6652702|52-A/C 6652729|55-C/G 6652886|48-T/A 6653028|14-A/G 6653065|44-C/T 6653124|7-G/C 6653205|17-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.007874016   
## 6653210|45-C/A 6653524|37-T/G 6653532|60-C/T 6653787|34-A/G 6653818|55-C/T 6653820|23-G/A 6653825|25-G/A 6653908|59-C/G 6653938|33-G/A 6656975|12-C/G 6658434|32-G/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.006802721 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6661131|30-C/A 6661170|60-C/T 6661460|63-C/T 100082330|10-C/T 6661516|30-G/T 6661542|10-A/G 6661650|9-G/A 6661787|54-G/C 6661807|10-G/A 6663931|44-A/G 6663966|33-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6664887|16-T/G 6665234|5-T/A 6666170|37-C/T 100016216|6-C/A 100016431|13-A/G 100016980|14-G/C 100017035|18-A/G 100018089|20-C/A 100018299|18-A/G 100019103|66-G/A 100020260|22-G/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.005988024 0.000000000 0.000000000 0.000000000 0.000000000   
## 100020593|29-A/G 100021233|9-G/T 100022402|38-T/A 100022743|53-G/A 100064690|24-G/C 100065349|19-G/C 100065841|23-T/C 100074065|11-G/A 6650412|48-C/T 6650459|40-G/A 6650487|15-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6650510|49-G/C 6650571|53-C/T 6650575|33-C/T 6650657|31-A/G 6650727|33-T/A 6650764|18-A/G 6650786|30-G/A 6650877|51-A/G 6650982|52-G/T 6650992|26-T/G 6651041|46-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651162|25-G/T 6651244|31-C/A 6651284|8-G/C 6651398|18-G/A 6651485|12-A/G 6651517|35-T/G 6651527|40-C/T 6651546|39-T/C 6651644|49-G/A 6651663|43-G/C 6651671|42-C/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651691|10-G/A 6651700|17-C/A 6651734|47-T/C 6651746|20-C/T 6651800|11-A/G 6651813|5-C/T 6651896|64-A/G 6651912|26-C/G 6651917|68-G/T 6652038|34-C/A 6652059|20-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652081|56-C/G 6652085|6-G/A 6652121|43-A/T 6652134|47-G/C 6652186|30-C/T 6652189|13-A/G 6652281|62-C/G 6652285|54-C/T 6652290|29-T/C 6652304|61-G/T 6652432|55-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652503|20-A/G 6652505|16-A/C 6652521|39-C/T 6652525|37-G/T 6652601|21-T/C 6652602|25-G/C 6652606|48-T/C 6652624|28-T/C 6652668|15-G/C 6652670|16-C/G 6652721|10-T/A   
## 0.000000000 0.008403361 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652733|37-A/G 6652745|53-A/G 6652752|31-C/T 6652791|49-C/A 6652818|11-T/C 6652862|15-A/G 6652881|22-C/A 6652972|10-T/C 6652998|52-A/T 6652999|57-A/G 6653082|48-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653098|9-A/G 6653162|29-G/A 6653274|28-A/G 6653325|64-G/C 6653332|57-G/A 6653357|42-C/T 6653362|53-G/C 6653412|42-A/G 6653426|18-C/T 6653440|10-T/C 6653465|26-C/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653468|58-T/C 6653470|47-G/C 6653503|52-C/T 6653589|18-G/A 6653681|55-A/G 6653716|66-G/A 6653721|50-T/C 6653756|39-T/C 6653768|57-T/C 6653772|52-C/T 6653912|41-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653970|10-G/T 6654035|9-A/T 6654089|34-G/C 6657074|8-C/T 6657427|36-T/G 6658142|19-G/A 6658487|31-A/T 6658567|11-A/G 6661106|67-C/A 6661340|59-C/T 6661404|52-G/C   
## 0.004219409 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6661465|25-C/G 6661493|15-T/C 6661592|37-C/T 6661602|55-A/G 6661729|38-A/G 6661755|5-T/C 6661849|5-T/A 6662667|9-T/C 6663069|39-G/A 6663912|29-A/G 6663945|17-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004424779 0.000000000 0.000000000 0.000000000   
## 6665239|6-A/G 6665353|11-A/G 6665974|11-A/T 6666103|68-G/A 100016182|32-A/G 100017836|20-G/A 100017869|6-A/G 100018411|68-A/C 100020222|50-C/G 100021008|5-T/G 100021734|34-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100021842|6-T/A 100045232|8-G/C 100065195|59-A/G 100074076|12-A/C 100114674|53-G/A 6650380|13-C/T 6650404|10-C/T 6650422|10-A/C 6650471|64-T/C 6650500|18-G/C 6650515|50-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6650537|13-C/T 6650542|10-G/A 6650554|41-G/A 6650556|9-G/C 6650615|12-C/T 6650633|41-A/C 6650636|55-A/G 6650715|51-A/G 6650784|41-A/G 6650806|54-A/G 6650812|44-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6650885|45-G/T 6650890|7-G/A 6650891|27-C/G 6650939|41-A/G 6651045|37-G/C 6651063|37-A/C 6651127|50-C/G 6651189|65-G/A 6651213|10-C/G 6651259|15-G/A 6651305|62-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651312|67-T/C 6651314|20-C/T 6651471|5-C/A 6651479|37-T/G 6651523|45-A/T 6651524|18-G/A 6651611|23-A/T 6651617|38-A/C 6651627|10-C/A 6651680|16-T/G 6651686|18-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651990|27-G/T 6652031|21-T/C 6652068|30-T/C 6652123|48-C/T 6652141|65-C/T 6652156|37-G/T 6652188|11-A/G 6652217|66-T/A 6652220|47-G/A 6652222|50-C/T 6652329|66-G/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004739336 0.005586592 0.000000000   
## 6652364|41-C/T 6652450|9-A/C 6652454|59-C/T 6652470|43-C/T 6652506|53-A/T 6652539|13-G/A 6652561|39-T/C 6652572|11-T/G 6652637|54-T/C 6652648|60-T/A 6652659|15-A/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652665|12-A/G 6652728|28-T/C 6652751|58-A/G 6652774|48-G/A 6652817|30-A/G 6652845|15-G/A 6652939|61-C/T 6652947|66-T/A 6653004|32-T/G 6653011|14-C/T 6653170|45-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653174|64-A/C 6653291|22-A/G 6653324|46-G/A 6653415|50-C/G 6653489|12-A/C 6653514|8-A/G 6653535|20-A/T 6653594|40-G/A 6653646|49-A/T 6653674|54-T/C 6653683|31-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653750|55-T/C 6653771|10-A/G 6653779|21-T/C 6653822|27-G/A 6653827|15-A/G 6653858|29-G/T 6653928|36-T/A 6653969|26-C/T 6654051|34-T/C 6654056|9-C/T 6654078|12-T/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6657388|11-G/T 6657512|7-T/A 6657941|41-C/T 6658094|46-C/A 6658571|22-C/A 6658640|12-C/T 6661287|22-A/G 6661315|34-C/A 6661316|17-T/A 6661420|51-G/A 6661453|6-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6661468|17-G/T 6661489|62-C/T 6661552|5-G/T 6661577|44-A/C 6661601|15-G/A 6661629|40-G/A 6661651|60-G/A 6661703|29-A/G 6661728|35-C/T 6662799|24-G/T 6662820|22-T/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.007042254 0.000000000 0.000000000   
## 6662890|34-A/G 6662898|11-T/C 6662977|22-A/G 6664083|6-T/C 6664294|44-T/A 6664720|7-C/A 6665218|24-G/A 6665351|57-C/G 100109477|37-C/T 6665629|41-C/T 6665821|31-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.005464481 0.000000000 0.000000000   
## 100016377|14-C/T 100016728|8-C/G 100017376|68-T/C 100018451|6-C/T 100019918|66-C/T 100022411|61-C/G 100064620|27-T/G 100064811|7-G/A 100065350|20-A/G 100109953|9-A/G 6650460|21-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6650519|57-T/C 6650579|51-T/C 6650580|37-G/A 6650607|66-G/A 6650671|45-C/A 6650689|52-T/A 6650703|19-G/A 6650815|7-A/G 6650944|60-T/A 6650965|12-G/T 6651031|38-C/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651069|41-G/C 6651089|58-C/G 6651139|39-G/A 6651355|22-C/T 6651367|34-G/T 6651487|9-A/G 6651578|26-T/C 6651593|32-G/C 6651619|40-T/C 6651620|38-C/T 6651675|34-C/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651806|49-A/C 6651821|15-A/G 6651825|51-A/T 6651968|21-G/A 6651983|9-A/T 6652057|5-C/T 6652073|37-A/C 6652074|10-G/A 6652115|60-T/G 6652197|23-A/G 6652244|39-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652249|29-C/T 6652338|5-C/T 6652392|7-T/C 6652466|57-C/T 6652514|66-T/C 6652554|50-A/G 6652556|53-T/C 6652589|8-C/A 6652749|25-T/C 6652753|11-T/G 6652776|45-A/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652806|6-C/T 6652834|26-T/C 6652885|65-C/G 6652929|66-T/A 6652935|47-C/T 6653073|5-G/T 6653088|16-G/A 6653093|44-G/A 6653104|55-C/T 6653436|11-T/C 6653497|6-C/T   
## 0.000000000 0.000000000 0.004464286 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653639|65-G/T 6653645|43-C/G 6653769|16-G/C 6653927|44-C/T 6653953|41-C/T 6653987|61-A/G 6653993|15-A/G 6654009|23-C/T 6656879|21-T/C 6656932|34-C/G 6657077|25-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6657152|47-T/C 6657200|7-T/C 6657228|8-C/T 6657447|9-A/T 6657510|13-A/G 6657518|14-A/C 6657616|11-A/G 6657889|17-C/G 6657989|13-T/G 6657992|32-T/C 6658007|29-T/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.006060606 0.000000000 0.000000000 0.000000000 0.000000000   
## 6658058|7-C/G 6658330|11-C/G 6658349|12-A/C 6658401|16-G/T 6658424|11-A/T 6658451|54-A/G 6658473|36-A/C 6658548|12-C/A 6658667|17-A/G 6661128|54-T/A 6661132|53-C/T   
## 0.000000000 0.004672897 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.006622517 0.000000000 0.000000000   
## 6661145|48-C/T 6661169|16-A/C 6661418|24-T/G 6661447|57-G/A 6661551|43-A/T 6661606|48-G/C 6661621|22-T/C 6661667|62-A/G 6661716|24-C/T 6661770|21-C/T 6662676|12-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6662737|6-A/T 6662747|22-A/G 6662778|8-A/G 6662831|7-G/C 6662962|22-T/G 6662984|35-A/G 6663913|23-G/A 6663996|47-G/T 6664080|40-C/A 6664712|24-G/A 6665849|24-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6665849|27-A/G 100019306|41-G/C 100023120|53-T/C 100045071|11-G/T 100073787|12-T/C 100073808|38-G/A 100082396|45-C/T 100082676|61-G/A 6650780|18-C/T 6651956|47-C/T 6652018|68-G/A   
## 0.000000000 0.000000000 0.000000000 0.004608295 0.000000000 0.000000000 0.000000000 0.000000000 0.013157895 0.000000000 0.000000000   
## 6652299|52-G/C 6652898|20-T/A 6653146|40-G/A 6657342|25-G/C 6657451|13-T/C 6657720|20-T/G 6657882|21-C/T 6658021|6-G/C 6658104|7-T/G 6658212|12-A/G 6658246|8-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6661212|11-A/C 6661231|65-C/G 6661373|56-C/G 6661472|51-T/C 6662632|29-C/A 6662644|9-A/C 6662718|14-A/G 6662788|5-C/G 6663015|45-C/G 6663056|27-G/A 6663101|48-T/C   
## 0.000000000 0.000000000 0.011363636 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6663942|12-C/G 6663943|19-C/G 6664030|20-T/A 6664734|37-C/T 6665050|6-C/T 6665686|46-A/G 100064830|15-G/C 100073523|7-G/T 100073850|23-A/C 100074130|14-T/C 100085916|27-G/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100085918|17-C/T 100093520|12-T/C 100102104|19-G/T 100104847|9-C/T 100107045|42-G/A 100111102|5-T/C 100118833|7-G/A 100118214|9-G/A 6661395|67-G/A 6661549|61-G/A 6664299|8-G/C   
## 0.007874016 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.005617978 0.000000000   
## 6661899|30-T/C 100117994|5-C/A 100118292|6-C/T 100120255|8-G/T 100122091|12-G/A 6658340|10-T/A 6662816|5-C/A 6662936|6-T/A 6662936|8-A/G 6662964|8-C/T 6662966|17-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.006329114   
## 6664885|14-G/A 6661031|8-G/A 100066612|18-A/G 6652306|13-T/C 100085941|14-G/T 100018734|36-T/A 6661163|12-C/T 100065635|32-C/T 6661774|57-G/A 100082623|35-G/A 100065110|61-C/T   
## 0.000000000 0.000000000 0.000000000 0.011764706 0.000000000 0.008333333 0.000000000 0.000000000 0.006622517 0.011494253 0.000000000   
## 6661113|35-G/T 100118834|24-T/A 100065734|46-A/C 6663988|26-G/A 6661432|6-G/T 6661894|14-C/T 100025027|41-A/T 100065037|22-A/G 6661398|17-C/G 6661689|5-A/G 6664901|14-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6661325|52-G/A 100024800|55-T/C 6661569|21-G/T 100015330|20-C/A 100017807|41-C/T 100021430|18-A/C 100021922|61-T/G 100024081|21-C/T 100044596|39-C/T 6651341|31-A/G 6652981|11-C/A   
## 0.000000000 0.005988024 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100065893|67-C/T 100015238|36-T/C 100015491|32-C/T 100015884|7-G/A 100019050|23-G/A 100022813|55-A/C 6653072|57-C/T 100016062|38-A/G 100017135|23-C/G 100021766|9-T/A 100022076|54-G/A   
## 0.005988024 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004830918 0.000000000 0.000000000 0.000000000   
## 6661377|53-C/T 100015975|43-A/T 100016187|49-G/C 100024150|52-T/G 100018712|5-A/C 100021390|26-A/G 100045683|24-T/C 6661840|10-C/T 100016255|15-T/A 100020380|45-T/G 100021355|11-G/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100021470|64-A/G 100023138|54-G/A 100023921|57-C/T 6650819|43-C/T 6653757|13-T/G 100015309|36-C/A 100015511|36-A/G 100015825|32-G/T 100016469|15-C/A 100019560|67-A/T 100021988|8-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100022638|31-A/T 100022674|60-A/G 100023456|47-T/C 100023464|21-G/T 100023506|63-G/C 100121198|44-C/T 6664022|46-T/C 100017302|21-A/C 100017884|42-T/C 100020887|11-G/A 100022100|32-C/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.012820513 0.000000000 0.000000000 0.000000000 0.000000000   
## 100022978|31-G/T 100064951|7-C/T 100108048|25-G/C 6653000|22-C/T 6661699|44-C/T 100015643|21-A/G 100016494|59-G/A 100017300|12-G/T 100017465|6-C/A 100019558|59-A/C 100021942|23-G/A   
## 0.004587156 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100022249|52-T/C 100022694|55-C/G 100022788|12-C/T 100101046|61-C/A 6652314|37-T/C 100015332|7-C/A 100015389|56-T/A 100015557|20-C/G 100017329|58-G/T 100018963|60-A/C 100019082|25-A/G   
## 0.000000000 0.000000000 0.006578947 0.004524887 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100019182|47-T/A 100020256|17-T/G 100020398|8-A/C 100021013|48-A/T 100021289|8-A/G 100023421|10-T/G 6653492|18-A/G 6661385|64-G/C 6661806|68-G/A 100017094|36-C/T 100017357|22-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.013513514 0.000000000 0.000000000   
## 100018276|13-A/G 100018426|49-A/T 100018952|47-A/T 100021643|42-A/T 100022068|8-T/C 100022755|51-G/A 100066666|24-G/A 6661519|31-A/T 100015745|7-C/T 100018424|55-T/A 100021037|43-A/C   
## 0.000000000 0.000000000 0.004219409 0.000000000 0.000000000 0.000000000 0.004484305 0.000000000 0.000000000 0.000000000 0.000000000   
## 100021847|31-C/T 100022744|13-G/C 100023381|30-A/G 100023472|27-C/T 100023477|8-T/G 100024933|20-T/G 6651050|34-T/C 6652421|32-C/G 100082161|17-G/C 6661817|22-G/A 6665065|47-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.005076142 0.000000000 0.008264463 0.000000000 0.000000000   
## 6666515|7-G/A 100015276|20-C/T 100016849|33-A/G 100018157|49-A/G 100018512|6-C/A 100019166|40-G/A 100019599|68-C/T 100020395|68-C/T 100020496|40-T/C 100022054|30-T/C 100022238|35-T/C   
## 0.000000000 0.000000000 0.000000000 0.004385965 0.000000000 0.000000000 0.004504505 0.004504505 0.000000000 0.000000000 0.000000000   
## 100022761|21-C/T 100064714|31-A/C 100082512|27-G/T 6635566|26-T/G 6651319|63-C/T 100101042|27-A/G 100015522|21-A/T 100015635|48-A/C 100016324|17-G/C 100017167|42-A/G 100017270|46-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100018878|51-C/T 100019810|41-A/G 100020422|49-T/G 100021781|44-T/A 100022052|36-T/A 100022732|37-A/G 100023771|42-A/T 100064904|9-C/T 100066133|22-A/T 6635226|21-A/G 6661769|64-T/A   
## 0.004830918 0.004405286 0.004672897 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004237288   
## 100015503|66-A/T 100015669|26-A/G 100016926|66-A/G 100017163|47-A/G 100017930|44-G/A 100018643|57-G/A 100019627|11-G/A 100019775|26-T/C 100020011|13-C/A 100020180|30-T/A 100020794|35-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.004830918 0.000000000 0.000000000 0.012048193 0.000000000 0.000000000 0.005747126   
## 100022441|55-A/G 100065577|55-T/C 100066375|31-C/T 100101063|14-G/A 6634311|8-T/C 6650564|10-C/G 6651449|21-G/A 100015590|56-T/C 100015813|59-T/A 100015865|6-C/T 100015966|35-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100016299|67-G/A 100017046|59-A/G 100017306|20-C/T 100017681|59-G/A 100018541|45-C/T 100019001|52-T/C 100019248|51-C/A 100019357|10-A/C 100020167|8-T/C 100020584|49-G/A 100020830|34-G/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100021518|64-T/G 100023323|17-A/G 100065274|22-T/A 100066055|6-T/C 6652294|28-T/C 6661350|27-G/A 100015979|10-G/A 100016232|12-A/G 100016804|11-G/T 100016918|64-T/A 100017355|38-C/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100018239|64-C/A 100018653|43-T/C 100019075|38-G/C 100020739|29-A/G 100022196|19-G/A 100022506|24-C/G 100022716|15-T/C 100065001|58-T/A 6661682|7-T/C 100016459|9-T/C 100016800|17-T/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004329004 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100016857|32-A/T 100016901|25-G/A 100017304|40-T/G 100018018|24-G/T 100018056|56-G/C 100018188|36-G/T 100018521|14-G/A 100019406|13-G/A 100019617|68-C/A 100020206|45-C/G 100021877|23-T/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100022598|56-C/T 100022715|29-C/T 100022769|37-G/A 100023124|68-T/G 100045390|32-G/A 100064869|18-A/G 100066159|27-C/T 6651348|40-T/G 6651910|25-A/T 6661267|31-G/A 6661407|12-G/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.005025126 0.000000000 0.000000000 0.000000000   
## 6661471|46-G/T 100015328|40-A/C 100015329|5-T/A 100015695|23-C/T 100015994|62-A/T 100016280|42-G/C 100016310|50-G/A 100017976|8-T/G 100018090|15-T/C 100018376|15-G/A 100019811|9-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100019879|32-T/C 100020836|42-T/G 100020897|56-T/C 100020918|25-A/G 100022084|40-A/G 100022253|28-T/C 100022347|11-T/G 100022822|20-C/T 100022863|16-C/G 100064727|32-C/G 100064762|17-A/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100065060|19-C/T 100065198|28-C/T 100065497|6-G/A 100066169|37-C/A 100066413|57-T/G 100066518|25-A/C 6650606|12-A/G 6650782|37-G/A 6651161|26-A/T 6651343|64-C/T 6651987|65-G/C   
## 0.010526316 0.005988024 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652583|9-C/G 6653986|35-G/A 100017405|46-T/C 100018360|48-T/C 100020046|11-T/G 100020184|33-A/T 100020356|17-C/T 100021172|11-C/T 100021739|23-A/G 100022407|43-A/G 100022586|32-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100023347|40-A/G 6630669|54-A/C 6651087|52-A/G 6653823|53-T/C 6661427|45-A/T 6664050|11-T/C 100015339|30-G/A 100015780|53-A/C 100016477|49-C/T 100016846|6-A/G 100017534|5-A/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100018524|64-G/T 100018715|45-A/C 100019637|34-T/C 100019730|38-A/G 100020004|34-G/C 100020093|64-G/T 100020177|61-C/T 100020736|62-T/C 100021876|36-T/C 100022251|18-A/C 100022479|48-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.009433962 0.000000000 0.000000000 0.000000000   
## 100023192|44-C/T 100065374|28-T/A 100065413|68-G/T 100065460|57-T/A 100065786|62-T/C 100065981|32-G/A 100093548|6-T/C 6635925|28-G/A 6651303|15-G/A 6652226|61-A/C 6652595|25-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.004716981 0.000000000 0.011627907 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652880|30-G/A 6653288|5-T/C 6661743|26-G/A 100015258|11-G/A 100015334|11-A/C 100015520|48-T/A 100016206|60-T/G 100016803|55-T/A 100016999|24-T/C 100017691|42-G/C 100018254|14-G/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100018691|53-C/T 100018832|49-T/A 100018836|30-T/A 100018972|63-T/C 100018993|58-G/A 100019968|28-T/C 100019971|65-T/G 100020134|53-C/T 100020237|19-C/T 100020353|50-A/G 100021532|8-T/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100022232|46-T/C 100022564|55-G/A 100064590|10-C/G 100064752|47-G/T 100066482|40-C/G 100066499|21-A/C 100082126|5-A/G 100082673|16-C/G 100118390|28-A/G 100118390|5-C/G 6650749|8-A/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.009009009 0.000000000 0.000000000 0.000000000 0.000000000   
## 6650993|48-A/G 6651187|10-A/T 6652437|24-T/C 6652887|56-G/A 6653102|62-A/C 6653358|49-T/A 6661200|10-A/G 6661277|39-G/A 6661479|25-C/A 6665776|10-G/A 100116183|6-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.004291845 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.007751938   
## 100065388|52-T/C 100015585|60-A/G 100016513|5-C/A 100016711|48-G/A 100017104|21-C/A 100017773|59-C/T 100017895|25-A/T 100018069|40-A/G 100018279|30-C/A 100018386|10-G/C 100018698|26-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.009090909 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100021026|29-A/G 100021644|9-C/A 100022215|30-A/G 100023511|29-G/A 100065011|9-G/T 100065481|45-G/C 100065665|18-T/G 100082041|35-T/G 100082540|39-C/T 6635352|11-C/T 6651637|46-A/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004444444 0.000000000 0.000000000 0.000000000   
## 6652697|44-G/A 6652848|23-G/T 6661188|24-G/C 6661506|68-A/T 6661846|36-C/G 100121512|16-T/C 100015223|24-C/T 100015336|36-G/A 100016018|57-G/C 100016257|18-G/A 100016363|39-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100016533|62-C/T 100017334|62-C/T 100017905|42-A/G 100018782|32-C/A 100018840|12-A/G 100018918|28-G/A 100018973|26-T/G 100019583|32-G/T 100020635|19-T/C 100020952|67-A/G 100021607|12-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100021759|51-G/A 100022391|27-T/C 100022668|57-T/C 100065738|47-G/C 100066164|11-G/A 100066550|5-T/C 6633324|49-T/G 6634529|30-T/C 6651763|8-A/T 6651994|28-A/G 6652616|33-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.005617978 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653336|20-T/C 6653857|60-T/A 6661332|57-A/T 6661613|21-G/A 100015558|12-T/G 100016614|13-A/G 100016893|9-G/A 100016974|14-T/C 100017016|14-G/C 100018076|32-A/G 100019206|6-T/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100019217|46-A/T 100019384|38-C/T 100019646|24-T/A 100019874|10-C/G 100019964|12-C/A 100020293|37-A/G 100020842|17-G/A 100021693|26-T/C 100022050|68-A/T 100022979|40-A/G 100023492|66-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100045668|41-G/A 100065160|26-C/T 100066259|47-G/A 6630074|25-T/C 6651026|5-A/G 6651431|37-C/G 6651540|51-T/C 6651708|27-C/T 6652397|25-T/C 6653258|20-A/C 6661295|56-C/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.006134969 0.000000000 0.000000000   
## 100016658|9-C/T 100016823|19-A/C 100017190|25-A/G 100017629|18-T/C 100018573|66-T/A 100019552|33-T/G 100021046|26-A/G 100022548|38-A/C 100065206|29-C/A 100065846|12-T/A 6651279|28-G/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.004219409 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652199|28-G/A 6652400|17-C/T 6652445|11-A/T 6653155|9-C/G 6653256|29-G/A 6661317|35-T/C 6663970|38-G/C 6665305|7-T/C 100015212|40-T/C 100015773|62-T/C 100016229|66-G/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.006172840 0.000000000 0.000000000 0.000000000 0.000000000   
## 100017966|44-G/A 100018540|41-C/G 100019145|8-G/A 100020607|26-G/A 100021569|14-G/A 100023034|23-C/T 100023386|11-T/C 100065690|24-C/G 6650623|27-T/C 6650909|20-C/G 6651336|17-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651419|53-T/C 6652696|7-A/G 6652736|50-T/A 6653280|14-G/T 6653295|57-T/C 6653940|33-C/G 6661206|18-A/G 6661327|42-G/C 6664003|47-C/T 100015464|37-A/T 100015704|41-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.007936508 0.000000000 0.000000000   
## 100016862|45-C/T 100019871|11-C/T 100020987|40-T/C 100021296|8-G/A 100065560|20-C/G 100066263|36-C/T 100066672|61-G/C 100082462|27-A/G 6632122|60-C/T 6650958|39-G/T 6651020|25-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651285|11-A/G 6651625|35-A/G 6651661|21-C/A 6651716|31-A/G 6651796|30-T/G 6651885|10-A/T 6652069|22-A/G 6652117|17-A/G 6652234|42-G/A 6653188|36-T/C 6653368|52-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6661580|47-C/T 6661803|14-T/C 6661812|53-C/T 6661866|32-G/C 100015736|43-G/A 100016141|36-G/A 100017142|64-C/T 100019476|8-T/C 100022055|56-G/A 100022078|12-T/C 100022886|24-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6631211|9-C/T 6651047|34-T/G 6651407|46-C/T 6651481|28-G/C 6652585|52-T/G 6653252|68-G/A 6653882|52-A/T 6653901|21-A/T 6654029|48-A/G 100015720|28-G/T 100016789|20-G/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100016796|38-G/A 100017412|8-A/G 100017613|42-T/G 100017642|45-C/A 100017690|28-G/T 100018660|67-C/T 100020040|40-T/A 100021191|5-G/C 100023009|12-A/G 100065757|7-G/C 100066245|18-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100074042|5-T/C 100082359|43-C/T 6635615|63-A/T 6650495|22-G/C 6650509|12-C/A 6651034|16-A/T 6651369|18-C/G 6651472|63-T/C 6651525|65-T/G 6651657|19-G/A 6651750|54-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652293|6-T/G 6652474|14-G/A 6653662|55-G/C 6661543|6-A/G 100017915|15-G/A 100020329|6-T/C 100021269|67-C/T 100021647|7-C/G 100065434|44-T/G 100091128|19-C/T 6630649|30-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6631485|63-C/T 6634232|23-C/T 6650379|29-C/T 6650507|19-A/C 6650854|20-G/A 6651417|34-C/T 6651649|55-G/A 6651797|46-C/T 6652137|50-T/C 6652171|14-G/C 6652353|59-C/T   
## 0.000000000 0.004255319 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652439|17-A/C 6652481|49-A/G 6652592|44-C/T 6652631|8-T/C 6652759|5-G/C 6653033|21-C/A 6653086|60-T/C 6653403|58-C/G 6653441|17-C/A 6653651|15-A/G 6653652|24-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653717|62-T/A 6653911|22-G/C 6657418|43-C/G 6658319|40-G/A 6661213|21-C/T 6661527|23-T/C 6664003|60-C/T 100017332|29-G/A 100018422|17-T/C 100019803|28-C/T 100020227|22-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100021230|36-G/A 100045732|32-A/G 100065400|55-A/G 100065695|10-T/A 6650641|39-G/C 6650730|37-C/T 6651079|5-A/T 6651096|56-T/C 6651302|27-C/G 6651575|42-A/G 6651609|46-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651712|16-T/C 6651755|6-C/G 6651927|7-C/T 6652423|26-A/G 6653022|23-G/C 6653024|17-C/T 6653143|11-A/G 6653233|66-T/A 6653287|46-C/T 6653308|9-A/G 6653555|27-A/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653600|5-T/C 6653915|45-T/G 6653995|60-T/C 6657836|14-A/G 6661227|16-C/A 6661262|58-G/T 6661434|38-G/T 6661641|45-A/G 6661702|15-A/G 6662581|37-A/T 100114018|47-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.004608295 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100016369|9-A/G 100017864|12-A/C 100018488|65-A/G 100018874|30-C/T 100022833|43-A/C 100045516|20-A/G 100065233|14-C/G 100065518|13-T/G 100065693|58-C/T 100066101|12-T/C 6633196|52-G/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004464286   
## 6633443|50-C/G 6650488|44-T/C 6650661|48-G/C 6650800|48-C/T 6650825|39-G/A 6650845|36-C/T 6650876|20-T/G 6651093|21-T/C 6651267|9-G/A 6651306|19-G/A 6651379|44-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651554|67-T/C 6651736|43-T/C 6651932|30-T/C 6651941|51-C/T 6652116|48-C/T 6652661|48-C/T 6652756|60-T/C 6652829|67-A/G 6653016|28-G/A 6653035|59-T/C 6653400|19-A/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653480|48-C/A 6653764|58-T/G 6654093|42-A/G 6661397|22-T/G 6663931|67-C/G 6663957|68-G/A 6663967|43-G/C 6665630|56-C/T 100017995|7-C/G 100020113|15-A/T 100022566|30-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100044990|7-T/C 100065049|7-G/T 100066339|40-A/G 100082461|32-T/A 6632579|11-G/A 6650828|56-C/T 6650907|12-G/C 6650924|57-A/T 6651078|6-G/A 6651186|45-G/A 6651357|21-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.007751938 0.000000000 0.000000000   
## 6651533|11-T/C 6651835|18-A/G 6651845|5-C/T 6652615|62-G/A 6652654|38-A/G 6652959|31-C/A 6652967|19-C/T 6653003|36-G/C 6653135|53-G/T 6653227|62-A/G 6653345|29-G/T   
## 0.000000000 0.000000000 0.000000000 0.004291845 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653424|16-A/C 6653449|26-T/C 6653581|57-G/C 6653676|29-A/G 6653712|15-T/C 6653723|10-C/T 6653956|18-A/G 6654001|23-C/A 6658504|15-C/A 6658614|43-T/G 6661202|35-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6661234|44-T/C 6661397|27-C/T 6661731|51-C/A 6661793|54-A/G 6663947|19-T/G 6664041|32-A/G 6664042|66-G/A 6664043|13-T/A 100017392|44-T/G 100020618|50-C/T 100022663|33-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6630289|20-G/C 6650619|36-T/C 6650638|22-A/C 6650699|38-T/C 6650728|58-T/C 6650755|23-T/A 6650783|14-G/A 6650849|14-T/C 6650880|67-A/G 6651095|41-C/T 6651245|18-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651292|26-C/G 6651352|20-T/C 6651467|62-G/C 6651557|42-C/T 6651631|26-C/T 6651664|24-T/C 6651688|48-C/T 6651718|35-C/T 6651795|51-C/T 6651923|42-T/C 6651965|39-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652219|19-T/C 6652378|63-C/T 6652434|66-A/C 6652655|53-T/G 6652722|31-C/A 6652830|22-T/C 6652882|43-C/A 6653040|42-C/T 6653271|6-A/G 6653385|63-G/T 6653386|12-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653418|27-T/A 6653450|16-A/G 6653476|17-G/C 6653520|26-A/G 6653763|12-G/A 6653916|15-T/C 6654026|50-T/C 6654061|33-A/G 6657577|47-G/A 6657800|39-C/A 6658145|22-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.010101010 0.000000000   
## 6658508|25-A/G 6661100|58-G/C 6661185|17-G/C 6661209|14-C/T 6661230|12-C/T 6661236|16-T/C 6661314|22-A/C 6661446|29-G/A 6661535|11-G/A 6661559|28-T/C 6661597|46-G/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6661642|45-G/T 6661657|60-G/A 6661731|68-A/G 6661796|25-A/G 6662683|15-T/C 6664747|36-A/C 6665469|54-T/A 6665629|23-C/G 100023210|29-C/A 100065681|26-G/T 100114697|13-C/G   
## 0.000000000 0.000000000 0.004484305 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6630523|63-G/A 6650409|45-T/C 6650528|28-G/T 6650721|49-C/T 6651065|27-G/T 6651098|23-T/C 6651125|47-G/A 6651426|10-G/A 6651605|61-C/A 6651634|10-G/C 6651759|12-C/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651815|20-A/C 6652098|62-G/A 6652125|13-C/T 6652182|12-A/G 6652205|23-G/T 6652340|36-A/G 6652361|22-A/G 6652367|17-C/A 6652519|22-A/T 6652681|7-T/C 6652787|16-C/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653095|8-G/T 6653128|9-G/T 6653131|30-G/A 6653340|41-C/T 6653516|66-C/G 6653855|60-C/A 6654020|41-T/C 6654087|18-G/A 6657400|14-C/T 6658359|12-G/A 6661176|55-C/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6661182|18-C/T 6661371|21-A/G 6661403|66-A/C 100065611|31-A/C 6661497|12-G/A 6661654|59-A/G 6662907|21-A/G 6663946|23-C/G 6665056|53-C/T 6665628|28-C/A 100019769|39-T/C   
## 0.000000000 0.000000000 0.000000000 0.006024096 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.006451613 0.000000000   
## 100082375|66-T/G 100082404|55-T/C 6650592|12-C/A 6651184|37-G/A 6652576|37-G/T 6652672|55-C/T 6653304|23-A/T 6656915|10-G/T 6657307|34-A/T 6657558|38-C/T 6658381|25-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6658521|6-G/C 6661752|23-A/C 6664327|23-G/A 100044751|5-A/G 100085984|13-G/A 100115531|5-T/A 6643578|12-A/G 100106109|11-G/A 100113138|5-T/G 100117994|11-T/A 6662821|6-T/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6664383|8-A/G 6665284|5-C/G 6665328|8-T/A 6665629|20-C/G 100118214|11-C/A 6663102|10-G/A 100021042|56-T/C 100090841|7-C/A 100103683|13-G/A 100103683|6-A/T 100106227|13-C/A   
## 0.000000000 0.004115226 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100106247|9-T/A 100111488|6-C/G 100112338|6-T/G 100114623|5-C/G 6644428|5-T/A 6647555|5-C/A 6648501|8-A/G 6648560|7-T/C 6658337|6-C/G 6664325|9-C/T 6664355|7-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6664406|5-G/T 6664885|10-C/T 6665134|5-A/G 6665147|13-C/T 100065344|49-T/C 6661457|44-C/T 6661867|13-G/A 6661122|26-C/T 100064630|57-A/G 100025554|68-T/A 6658677|32-C/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.006451613 0.000000000 0.000000000 0.000000000 0.007633588 0.000000000 0.000000000   
## 6635413|16-T/A 6661764|43-C/A 6652801|27-G/A 100024646|8-G/C 100066569|63-G/A 6652374|43-T/C 6661449|54-A/C 6661688|9-G/T 6661583|7-C/T 6661219|45-G/A 100016118|67-A/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004901961 0.000000000 0.000000000 0.005050505 0.000000000 0.000000000   
## 100065968|17-C/T 6664008|7-T/G 100019909|40-A/G 100024919|19-A/C 100021772|52-T/C 100066372|27-A/G 100091350|43-A/C 100017975|34-A/G 100045781|34-C/A 6652884|53-G/A 100017252|27-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100017894|53-G/A 100022254|26-T/A 6632275|61-T/C 100065115|49-T/C 100065825|30-T/C 6654008|51-C/T 6653230|18-T/G 100020850|15-T/A 100024608|28-A/G 100065720|36-C/T 100019004|19-T/C   
## 0.000000000 0.000000000 0.004854369 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100022949|21-T/C 100024718|58-G/A 100065076|9-G/C 6650868|53-G/A 100017101|27-T/G 100017766|10-C/A 100019793|62-T/A 100021136|57-G/A 100021706|33-T/C 100025017|58-T/C 6652036|20-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100015261|30-G/A 100015698|55-A/C 100016039|28-T/C 100021704|31-A/T 100021798|6-G/A 100022137|6-T/C 100022883|14-A/G 100023375|24-A/C 100064876|34-G/A 100022317|10-A/G 100065186|8-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653805|57-G/C 100021710|10-A/G 100023305|24-G/A 6634600|17-T/C 6650598|62-C/A 100017818|14-T/G 100020277|67-T/G 100020322|14-C/T 100021252|30-G/A 100022007|39-C/T 100022967|55-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004587156 0.000000000 0.000000000   
## 100023231|52-G/C 100024979|12-A/T 6651448|5-C/A 6661619|36-C/T 100101013|46-C/T 100015916|40-T/G 100019381|29-T/C 100021309|54-A/G 100022531|25-T/C 100022877|17-A/C 100023365|32-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100023869|51-T/A 100066103|5-G/A 100066389|65-G/C 6652703|57-T/C 100019288|33-T/C 100020549|44-T/G 100020551|60-A/T 100023117|6-G/T 100023343|62-G/A 100065070|10-C/T 100119322|60-G/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653215|23-A/C 100015905|30-T/A 100018538|19-A/G 100020139|46-T/C 100020548|9-A/C 100065378|43-C/T 100065666|20-A/T 100065687|58-C/T 6651010|63-C/T 6651023|13-C/T 6651465|19-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004385965 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653507|50-C/G 6661164|56-C/G 100015555|49-G/A 100017215|20-C/T 100018040|51-T/A 100018557|8-A/C 100019185|63-C/G 100019688|44-C/T 100023075|63-C/G 6630180|30-A/G 100015432|27-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100017493|63-A/G 100020399|26-G/A 100020528|67-A/G 100021151|33-C/G 100021753|16-G/A 100021795|51-G/A 100062072|14-A/C 100066634|26-T/A 6661693|17-A/G 100015331|61-T/C 100015609|28-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100017169|13-G/A 100017928|37-T/A 100019505|12-C/A 100020075|44-G/T 100020413|29-G/A 100021373|46-G/A 100021417|26-A/C 100022461|56-A/G 100022969|9-G/A 100023275|19-T/C 100082212|44-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004219409 0.000000000 0.000000000   
## 6652622|54-G/A 6653084|57-C/G 6653710|21-C/T 6653840|32-A/T 100021632|19-T/C 100022984|17-G/C 100064905|26-T/A 100015960|29-G/A 100016761|32-C/T 100017811|61-T/C 100019007|29-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100020970|16-G/A 100065097|13-T/C 6651396|51-T/G 6651430|31-C/T 100015246|12-A/G 100017606|48-T/C 100018953|27-G/C 100019018|13-A/G 100020129|19-G/A 100020404|28-A/G 100020733|17-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.012658228   
## 100021724|12-A/C 100066663|43-G/A 100122660|5-A/G 6630550|32-T/C 6652105|37-A/G 100015837|30-T/C 100016214|35-G/T 100017908|21-G/A 100019267|32-G/A 100023141|5-C/T 100023174|41-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100064755|8-G/A 6651656|34-G/A 6651767|59-G/C 6664728|67-C/T 100018065|63-T/A 100019510|9-G/A 100019632|22-T/C 100019754|7-A/T 100020251|60-G/A 100021712|18-T/A 100044571|14-T/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.007299270 0.000000000 0.000000000 0.000000000 0.004347826 0.000000000 0.000000000   
## 6661691|15-C/T 6663917|15-C/T 100018085|21-A/G 100019876|24-A/C 100020554|42-G/T 100022262|60-C/A 100023321|57-A/G 100065480|65-T/A 6652163|42-T/G 6661278|34-C/G 6661299|21-G/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100016113|5-T/A 100018753|18-C/A 100022995|26-G/A 100045005|36-T/A 100065425|18-T/G 100065813|42-A/C 100066450|34-C/G 6652607|6-A/G 6653544|67-T/C 6661463|59-T/G 6661534|24-C/T   
## 0.000000000 0.000000000 0.000000000 0.008333333 0.000000000 0.000000000 0.009132420 0.000000000 0.000000000 0.000000000 0.000000000   
## 100020053|13-A/T 100020534|56-C/G 100020747|66-T/A 100022664|19-A/G 100023314|12-C/T 100024345|29-C/T 100065655|8-A/T 100082306|16-G/C 6632614|14-G/C 6650544|61-G/A 6661521|5-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6661754|5-A/T 100017623|23-C/T 100019111|65-T/A 100020626|26-A/C 100022838|5-C/T 6661655|44-C/A 100015424|32-C/A 100017638|47-T/C 100019862|5-A/G 100064626|46-C/T 100066576|33-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100082421|35-G/T 100082421|56-A/T 6661595|45-G/A 100018565|14-C/T 100019547|16-A/T 100021316|68-A/T 100066021|13-T/C 100066577|66-T/C 6635995|53-T/G 6650794|31-T/C 6651294|52-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6661643|39-A/C 6665642|53-T/C 100017091|53-T/C 100018288|5-C/T 100019411|13-C/T 100022970|53-A/G 100044935|38-C/G 100065133|26-G/A 100065604|17-G/A 6653270|12-C/T 100082437|5-G/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.004878049 0.000000000 0.004201681 0.000000000 0.000000000 0.000000000 0.000000000   
## 100017079|68-T/A 100018306|21-T/A 100065207|61-C/A 6651674|58-G/A 6661762|25-C/T 100016541|14-A/T 100019240|64-C/A 100022760|39-A/C 6661631|14-G/T 100015984|25-C/T 100020169|39-T/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100020171|37-C/T 100020514|46-G/A 100093365|13-T/C 6631375|67-A/T 6651160|63-T/G 6651417|40-A/G 6653272|47-T/C 6661637|58-G/T 6661875|62-G/A 100016327|11-G/T 100017411|17-C/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.016260163 0.000000000 0.000000000 0.000000000   
## 100021938|40-C/A 100104022|29-G/C 6653086|61-G/A 6654063|52-T/C 6661270|57-C/T 6661413|37-C/T 6661571|64-G/A 6662928|6-G/T 6665563|11-G/C 100015347|8-A/G 100015697|17-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6630379|34-A/G 6651111|37-G/A 6651135|63-T/A 6652080|40-C/G 6653891|42-G/A 6661255|43-T/G 6661262|56-A/G 6661441|11-A/G 100019678|23-G/T 100065386|6-G/C 100082362|41-C/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.008658009   
## 100119892|9-C/T 6650706|34-C/G 6651084|9-T/C 6652828|42-G/A 6653640|66-C/T 6661213|29-A/C 6661501|61-G/T 100020312|34-A/G 100066078|57-C/T 6651216|56-G/C 6651663|16-T/G   
## 0.000000000 0.004566210 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652291|30-C/A 6661623|16-C/T 6664064|11-C/A 100019069|65-C/T 6629913|31-T/G 6650658|32-T/C 6651643|7-G/A 6651651|36-T/C 6652652|32-C/T 6652781|24-G/A 6652781|64-C/G   
## 0.000000000 0.000000000 0.000000000 0.006756757 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652958|54-G/C 6661185|61-C/T 6661218|12-C/T 6661232|58-C/T 6662683|28-G/C 6662714|21-A/C 6663024|21-C/T 100016570|44-C/T 100017965|14-G/A 100018649|23-G/A 100021210|28-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004878049 0.000000000 0.000000000   
## 100044629|5-T/A 100065997|37-G/A 100066075|25-C/G 100119599|31-T/C 6633592|39-A/T 6650534|49-T/C 6650535|67-A/T 6651337|9-A/G 6653918|11-A/G 6657564|24-C/T 6661126|11-C/T   
## 0.007812500 0.000000000 0.000000000 0.000000000 0.000000000 0.012903226 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6661428|5-C/T 6661666|46-C/T 6661783|8-T/C 6661798|20-C/T 6661798|28-T/C 6661836|10-G/A 6661836|20-G/C 6661863|56-C/T 6662849|35-T/C 6665679|46-T/G 100093359|29-C/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6629858|37-A/T 6643954|6-G/T 6652019|59-G/C 6652746|56-G/T 6652810|45-C/G 6653160|44-G/A 6653239|27-C/T 6653352|54-C/G 6653632|19-G/A 6662822|7-G/A 6664724|62-G/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.008264463   
## 100044710|9-T/G 100093660|28-C/A 6633718|59-C/T 6641748|42-C/A 6658299|7-T/C 6661450|36-G/A 6643586|10-T/G 6643586|9-C/A 6648203|14-A/T 6664350|5-C/T 100106226|9-C/A   
## 0.004166667 0.000000000 0.000000000 0.000000000 0.006535948 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100111464|9-T/C 6643578|11-A/T 6664414|23-C/A 6664432|8-G/T 6643814|11-C/G 6643814|5-G/A 100100648|8-G/T 100103657|7-G/C 100106110|9-A/G 100106239|8-T/G 100109437|5-C/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100109437|9-C/G 100110529|5-C/T 100111487|5-T/G 100122090|8-T/A 6649192|5-T/C 6657874|5-G/C 6658144|18-A/T 6662919|11-A/C 6663018|25-T/C 6664273|5-C/A 6664306|8-C/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6664893|38-G/C 6664910|11-C/G 6665153|7-A/G 100082484|50-G/T 100118470|9-C/T 6664010|54-C/T 100046106|24-G/T 6666102|8-G/A 6657032|15-C/T 6665215|57-C/T 100018359|44-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100023139|68-G/T 6664085|47-C/T 6661211|58-C/T 100066559|31-T/C 6663985|50-C/T 6665628|45-T/C 100097039|23-C/G 6665040|44-A/G 100093411|9-A/C 100093413|26-G/C 6634480|31-T/A   
## 0.000000000 0.000000000 0.006250000 0.000000000 0.005586592 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100065820|27-T/C 100065626|5-A/C 100017456|5-A/C 100065031|12-G/A 100090339|7-T/C 6654096|11-C/A 100045278|30-G/C 6650722|8-G/C 100023932|52-G/T 6661186|27-A/G 100066349|48-C/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.005464481 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6664781|12-G/A 100018124|53-C/G 100064999|21-G/A 100074314|17-G/A 6661474|58-C/G 6664089|39-C/A 100074315|18-C/T 100109510|37-A/G 100106299|29-A/C 6652532|17-A/G 6666146|37-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100020687|19-G/A 100017102|43-A/G 100016103|11-C/T 100016936|24-G/C 100065009|15-G/C 100021792|22-G/A 100065064|48-C/T 6651486|23-C/A 100022395|5-G/T 6635620|7-T/G 100021158|56-G/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100024001|29-C/A 100065225|30-T/C 100065766|32-C/A 100065871|7-G/C 6657554|17-A/G 100021381|48-A/G 100065073|30-T/C 100065186|6-A/G 100082387|67-G/T 100022890|66-G/A 100023224|41-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100066151|44-C/A 100065712|39-A/G 100016548|22-A/C 100018316|52-G/A 100018669|51-A/G 100020096|10-G/A 100021832|59-T/C 100045940|24-C/A 100066650|24-A/G 100045116|6-C/T 100112452|57-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653883|52-C/G 100021186|32-G/C 100021930|67-G/A 100065300|66-G/T 100082101|62-A/G 100119315|9-G/T 6650840|6-C/G 6664036|6-A/T 100015791|35-A/G 100021993|35-A/T 100065071|26-C/T   
## 0.000000000 0.000000000 0.005952381 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100106305|20-G/C 100020586|49-T/G 100022366|24-T/C 100022982|18-T/C 100102365|9-C/G 100016200|62-T/G 100017620|16-C/T 100018736|57-T/C 100020340|6-T/C 100066082|8-G/T 6663098|31-C/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100018726|57-G/T 100019037|42-G/A 100021366|54-C/T 100022220|45-A/G 100066146|14-T/C 100066266|57-C/G 100066574|19-T/C 100016560|7-T/C 100066037|49-C/G 100121195|35-C/G 100018616|49-T/G   
## 0.000000000 0.000000000 0.008620690 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100066663|58-T/C 100118142|5-T/C 6665806|57-G/A 100018844|30-C/T 100091301|63-G/T 100096922|11-G/T 6651543|26-C/T 100016510|41-T/A 100018353|22-G/T 100019853|68-A/T 100021078|39-A/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100021925|13-A/G 100065479|51-A/G 100066412|14-T/C 100091301|22-C/G 100019195|66-T/A 100023208|34-G/A 100065057|21-C/T 100065426|35-C/A 100073631|7-G/C 100016006|34-T/G 100017176|29-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.005102041   
## 100018612|5-A/C 100020218|34-A/C 100065408|22-T/G 100065476|64-G/A 100065761|7-G/A 6632042|19-G/C 100015587|20-C/A 100016037|24-A/G 100021787|68-A/C 100022942|14-C/G 100066550|58-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004444444 0.000000000 0.000000000   
## 100082539|7-G/A 6650594|30-T/G 6653546|21-T/C 6664281|14-A/T 100016076|49-A/C 100022081|49-G/A 100022274|36-C/A 100116482|57-T/A 100121512|34-G/C 100017777|61-G/A 100064625|41-A/G   
## 0.000000000 0.004115226 0.000000000 0.004237288 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100064874|12-T/C 100106306|45-G/A 100106306|65-G/A 100021587|57-C/T 100065160|65-G/T 100073403|34-A/C 100082633|51-A/G 100097045|48-T/C 6652651|47-T/A 6661761|37-C/T 100017728|53-A/C   
## 0.000000000 0.000000000 0.000000000 0.009708738 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100065286|5-A/C 100082197|10-C/T 6633952|10-G/C 6657904|18-T/C 100065579|38-A/C 6661858|20-C/A 100019471|14-G/A 100044832|16-G/T 100065848|33-G/A 100066117|37-G/T 100112452|34-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6630404|40-A/C 100103994|35-G/T 100017343|6-T/C 100064738|40-C/G 100064746|17-G/A 100074010|27-G/C 6631936|55-T/C 6661620|58-C/G 100016884|51-C/A 100065351|47-C/G 6631698|7-C/G   
## 0.000000000 0.000000000 0.000000000 0.004201681 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652538|34-T/C 6657259|24-G/A 100016745|16-T/C 100065233|43-G/A 6630611|19-A/C 6652270|62-C/G 6652729|29-T/G 100020530|29-C/A 6630408|13-G/T 6630626|34-A/T 6631766|58-C/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6633539|7-G/A 6634322|14-T/G 6652458|12-A/T 6653006|66-G/A 6653115|48-T/A 6663957|45-C/T 100066473|39-A/G 6650554|32-A/G 6657465|23-T/A 6663949|9-G/A 100020033|33-A/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100082315|13-G/A 6629848|65-C/G 6630880|24-C/G 6650849|38-G/A 6650881|15-G/A 6651487|20-C/T 6651826|47-T/A 6652855|33-G/T 6657563|28-T/G 6657811|15-G/A 6658667|25-T/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6662907|9-T/A 6665143|45-A/G 100021831|19-T/A 100045184|5-G/C 100065651|20-A/C 100066434|64-T/A 100066660|33-T/C 6633749|29-T/A 6635481|20-A/G 6650535|47-C/A 6652320|27-G/C   
## 0.000000000 0.000000000 0.000000000 0.006250000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652796|29-G/C 6654065|42-C/G 6657294|51-C/A 6658085|11-A/G 6661346|29-T/A 6661679|17-C/T 6662799|12-C/A 6662831|22-C/T 6663021|23-A/G 100085932|36-G/C 6630269|58-C/T   
## 0.004566210 0.000000000 0.000000000 0.000000000 0.004405286 0.000000000 0.000000000 0.000000000 0.000000000 0.004761905 0.000000000   
## 6630995|13-C/T 6633153|34-C/T 6644233|38-G/T 6650943|57-C/G 6650961|27-T/G 6651177|55-C/G 6651864|18-T/C 6652465|10-A/T 6652776|7-C/T 6654017|47-C/T 6657683|10-G/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6657925|11-T/C 6658404|12-T/G 6664915|43-G/T 100045721|8-T/A 100082404|10-G/T 100093333|22-G/A 6633054|40-T/A 6642765|20-C/T 6643196|21-C/G 6653359|24-C/T 6658471|31-G/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004424779 0.000000000 0.000000000 0.000000000 0.004115226   
## 100065416|12-T/C 6661414|26-T/C 6664306|12-G/A 6665409|5-T/A 6642901|10-G/A 100108705|8-G/A 6665151|5-A/T 100122090|6-T/A 6662690|20-C/T 100016003|7-T/A 100016649|43-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100019431|29-C/T 100023959|16-T/C 100024997|62-T/G 100044851|16-G/C 100064658|7-C/T 100064682|49-G/A 100064707|51-G/A 100064714|52-G/A 100064753|29-A/G 100064840|30-G/A 100065000|48-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100065025|5-A/G 100065087|14-G/A 100065157|40-T/G 100065238|55-G/T 100065368|11-G/C 100065400|61-A/G 100065428|33-G/C 100065497|38-G/T 100065538|49-T/G 100065597|12-A/T 100065605|63-C/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100065647|9-T/C 100065669|36-A/C 100065706|45-G/A 100065736|5-A/G 100065739|9-C/T 100065933|35-G/A 100066025|19-T/C 100066134|25-T/C 100066259|18-C/T 100066274|66-A/G 100066332|57-T/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100066410|32-G/A 100066624|60-C/G 100082151|41-C/A 100082232|23-T/G 100082297|57-C/T 100082311|43-C/T 100082409|16-T/A 100082418|7-T/C 100082564|6-T/C 100082633|21-G/A 100086276|23-G/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100086585|5-G/T 100091075|52-C/T 100091130|54-T/C 100093549|30-T/C 100098502|34-A/T 100101042|48-T/G 100121195|12-A/G 100121196|29-T/C 100121197|43-C/G 100121199|47-T/A 100121200|51-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100122496|35-G/A 6630263|32-T/A 6630513|10-G/C 6631038|8-T/C 6631621|56-C/G 6633643|35-C/T 6634127|43-A/G 6635254|35-A/C 6641856|17-G/T 6642355|17-A/G 6650389|35-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6650444|8-A/G 6650519|63-A/G 6650553|61-C/G 6650587|17-C/A 6650591|24-A/G 6650676|68-C/T 6650899|7-G/A 6650902|63-C/T 6650919|10-A/G 6651039|12-G/A 6651054|54-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651207|33-A/G 6651431|65-C/G 6651512|39-C/A 6651635|32-C/T 100065262|63-T/A 6651763|26-G/A 6651874|8-T/A 6651879|12-C/T 6652022|6-C/T 100065511|46-G/C 6652174|20-A/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652193|50-G/A 6652287|47-C/A 6652538|35-G/A 6652743|25-G/A 100065924|8-G/T 6652898|57-G/T 6653034|66-G/A 6653037|45-C/G 6653161|37-C/T 6653161|51-C/G 6653240|43-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653383|7-T/C 6653394|26-G/A 6653420|30-G/T 6653514|60-C/G 6653521|20-A/T 6653525|7-A/G 6653571|21-G/T 6653574|48-G/T 6653793|20-C/T 6653861|28-C/G 6653990|38-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6654094|56-G/T 6654108|11-A/G 6657811|16-C/T 6658021|8-T/G 6658173|44-C/A 6658487|25-C/A 6658616|17-G/T 6661180|50-T/C 6661214|14-C/G 6661229|60-G/A 6661236|33-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6661487|18-A/G 6661524|9-G/A 6661550|30-T/C 100082471|28-C/T 6661631|29-G/C 100082491|60-C/T 6661651|25-G/A 100082562|68-C/A 6661778|27-A/G 6661827|57-C/G 6661838|61-A/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6661845|30-A/G 6662631|42-G/A 6662646|5-A/C 6662657|27-G/A 6662765|9-A/G 6662767|43-T/A 6662797|33-T/C 6663018|35-C/G 6663941|10-G/C 6663953|25-A/G 6663990|56-G/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6664007|22-C/A 6664018|43-T/C 100091330|60-C/T 6664739|19-C/T 6665051|50-C/A 6665130|20-T/A 6665130|26-T/A 6665131|16-G/T 100109477|22-G/A 6665563|54-C/T 6665566|58-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6665567|59-A/G 6665600|6-T/C 6665637|6-G/C 6665638|50-G/C 6665992|26-C/T 6666146|48-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
##   
## $Hexp  
## 6661549|60-C/T 6650588|15-C/T 6661794|21-A/G 6664081|63-G/A 6653885|30-A/G 6661177|64-C/T 6661457|52-C/T 6653401|39-G/A 6657572|30-T/A 6661566|34-A/G 6663962|65-C/T   
## 0.499782986 0.499274376 0.495550018 0.498614958 0.490977946 0.496683115 0.500000000 0.499003508 0.455548775 0.468463960 0.470416362   
## 6665217|18-A/G 6661207|60-A/C 6661398|51-C/T 6651899|27-T/A 6653020|28-A/C 6653704|64-T/G 6650504|59-T/C 6652003|38-G/C 6661105|11-G/T 6661432|29-C/A 6652162|44-A/T   
## 0.497418337 0.489709626 0.468043808 0.456294896 0.497471605 0.495542375 0.494665961 0.446483006 0.492822103 0.467790976 0.483471074   
## 6653798|57-C/T 6653191|40-A/G 6664876|31-G/A 6661163|31-T/C 6652675|16-G/T 6652288|45-C/T 6650933|66-G/A 6653948|58-T/C 6663083|49-G/A 6662726|45-A/G 6664756|9-C/T   
## 0.493213309 0.480358737 0.466557669 0.482229239 0.500000000 0.477040816 0.499415589 0.499626743 0.490337630 0.461419753 0.454734122   
## 6661688|18-A/G 6666128|43-C/G 6652433|13-A/G 6652352|5-T/C 6664270|14-C/A 6651416|17-C/T 6664751|11-T/A 6657734|47-A/G 6663081|18-A/G 6651148|64-A/T 6656916|22-T/C   
## 0.472125772 0.431412894 0.461747397 0.492362075 0.483053518 0.499720999 0.478116630 0.435955679 0.437591882 0.491862690 0.449130499   
## 6653573|49-T/C 6661198|22-T/G 6665027|17-A/T 6664900|6-C/T 6650826|66-G/A 6653766|40-A/C 6665588|8-C/T 6652573|8-C/A 6652700|14-C/G 6664334|9-A/G 6651772|17-A/T   
## 0.486992716 0.492254416 0.486111111 0.490903191 0.497662357 0.498949653 0.448532986 0.458509035 0.483471074 0.455636034 0.473741319   
## 6651828|36-G/A 6650476|13-A/C 6651474|15-T/C 6652836|30-C/T 6653346|25-C/A 6658563|22-C/T 6661870|10-G/T 6657169|37-T/C 6661569|7-A/G 6652342|46-G/A 6656937|18-C/T   
## 0.497819509 0.489002801 0.468027481 0.487643256 0.474311111 0.429256797 0.499991098 0.448425595 0.434963719 0.466766357 0.436894044   
## 6661537|56-G/A 6664008|14-G/A 6651473|53-G/A 6661884|29-T/A 6662691|24-C/T 6661181|61-C/T 6651798|39-C/A 6661610|46-T/C 6653512|60-C/G 6651413|19-C/A 6651436|18-C/T   
## 0.444444444 0.475580721 0.467126890 0.496497118 0.424561164 0.464076948 0.483471074 0.499917817 0.471078353 0.498750000 0.495758310   
## 6663093|22-C/A 6652854|20-T/C 6657907|22-C/T 6664719|5-A/G 6651857|34-G/T 6658182|11-G/A 6661203|33-G/T 100066381|65-T/C 6661291|28-A/C 6651404|67-A/G 6661583|6-T/C   
## 0.437044745 0.440151838 0.420366552 0.431020408 0.443029073 0.438412999 0.468750000 0.492881586 0.494311111 0.466745152 0.433884298   
## 6653019|13-C/T 6661633|39-G/T 6653539|14-G/C 6652507|49-A/G 6662661|7-T/C 6661859|57-A/G 6661395|60-C/T 6661690|43-G/A 6653303|26-C/T 6650697|6-C/A 6661748|26-C/T   
## 0.441701368 0.445699897 0.473261719 0.416810942 0.444444444 0.499533827 0.476739715 0.479655179 0.494842529 0.498715199 0.485229492   
## 6661276|34-A/G 6651590|59-C/G 6661435|48-G/A 6664012|53-A/G 6651071|8-C/T 6661174|27-G/A 6657901|34-G/A 6661288|56-T/C 6664895|15-G/A 6665065|54-A/G 6653483|52-C/T   
## 0.487229207 0.444969790 0.461656805 0.457045184 0.486796875 0.458316802 0.459569641 0.400350765 0.499885216 0.445976938 0.483176359   
## 6652822|57-G/A 100065688|55-A/G 6661405|37-G/T 6661817|33-A/G 6651443|47-G/T 6651921|15-T/A 6654090|16-G/A 6653899|53-A/G 6661211|62-G/A 6652984|32-G/A 6661495|42-T/C   
## 0.438401824 0.467559630 0.450421005 0.413887500 0.443064235 0.482015458 0.499967482 0.461950059 0.498765480 0.464369075 0.464898824   
## 6650679|43-C/T 6661246|33-G/A 6653043|54-C/G 6651254|12-A/T 6653789|32-G/T 6650988|24-G/A 6650862|68-C/A 6653541|8-A/G 6662900|30-G/A 6653618|37-G/A 6664721|14-C/T   
## 0.452441261 0.423210373 0.432928585 0.469836873 0.451171875 0.422137988 0.497814357 0.434032456 0.427520832 0.494238565 0.425361570   
## 6652395|48-C/T 6661842|33-T/A 6661739|54-G/A 6652644|26-G/A 6652332|20-T/C 6651976|25-G/A 6661113|14-C/T 6661301|20-G/A 6662986|27-C/T 6653529|7-G/A 6651972|24-A/G   
## 0.433574985 0.476214669 0.448616103 0.456525312 0.420756497 0.454207064 0.455279937 0.433884298 0.399713952 0.450527893 0.420000000   
## 6652901|58-C/T 6653167|32-C/T 6652763|59-G/A 6651610|56-G/C 6661486|27-C/T 6664344|37-A/G 6661743|17-G/A 6651212|18-A/G 6651054|64-T/A 6653313|42-A/G 6652640|45-C/A   
## 0.429687500 0.463667297 0.448291253 0.482887500 0.439156301 0.405937001 0.402852320 0.497418337 0.444444444 0.447923554 0.423210373   
## 6653127|48-G/A 6652179|62-G/A 6664422|18-A/G 6661732|8-C/T 6658587|26-G/A 6661161|53-A/C 6657089|25-C/T 6650998|9-A/T 6652379|23-G/C 6652823|50-C/A 6653209|28-G/C   
## 0.427692918 0.476044871 0.431083940 0.416631944 0.481508876 0.492901766 0.466587996 0.495520669 0.440646847 0.418754883 0.486111111   
## 6664750|24-C/T 6666098|18-G/A 6664416|28-A/G 6661208|26-A/T 100017494|26-T/C 6657426|10-G/T 6650467|17-T/C 6661591|23-T/C 6661615|53-A/G 6651689|52-C/T 100093282|6-C/T   
## 0.390322064 0.428414901 0.417480469 0.462615967 0.434678473 0.371815414 0.408163265 0.437374045 0.482015458 0.430517139 0.398226068   
## 6651044|31-C/T 6663926|8-G/A 6661122|39-C/T 6653015|45-G/T 6651960|46-A/G 6658395|10-A/G 6664288|7-C/G 6651937|12-G/T 6661119|32-T/C 6653567|68-C/T 6657105|21-A/G   
## 0.406809758 0.488165680 0.474311111 0.405306927 0.399876983 0.368703745 0.391374605 0.427437642 0.481440956 0.442932798 0.447034087   
## 6653958|12-C/T 6664417|17-G/A 6653929|22-G/A 6653560|40-C/T 6651307|58-C/T 6651918|7-T/C 6652335|27-T/C 6652403|61-A/C 6661676|25-C/T 6657686|15-A/G 6661180|15-G/A   
## 0.408565616 0.396170485 0.408565616 0.446273308 0.398750000 0.450788158 0.428916958 0.424292292 0.453144523 0.404793388 0.412857008   
## 6664065|56-A/T 6662654|14-C/T 6661258|19-T/G 6661326|21-G/T 6661503|51-G/A 6665677|54-T/C 6651345|67-A/G 6653158|39-C/T 6661434|33-C/T 6650700|61-G/A 6665573|50-G/T   
## 0.404296875 0.405337684 0.457413104 0.394688324 0.414577778 0.355377445 0.392742382 0.403200000 0.367506988 0.435361697 0.371063232   
## 100103686|15-C/T 6661407|28-A/T 6662956|24-T/G 6653198|44-C/T 100119886|12-A/G 6653976|22-T/C 6661123|44-T/C 6661423|44-C/T 6661694|9-T/C 6653208|48-G/A 6661587|35-T/C   
## 0.437913832 0.382793145 0.381121508 0.432132964 0.350802461 0.421373365 0.366230678 0.436224490 0.456055682 0.416584011 0.441701368   
## 6653932|10-C/T 6657861|14-G/A 6664287|35-C/T 6653108|33-A/G 6650863|33-C/T 6653166|35-T/C 6652001|24-A/G 6657913|25-C/G 100109898|15-G/A 6661240|65-T/A 6661268|13-G/A   
## 0.391412951 0.373777513 0.410731998 0.431219555 0.402465278 0.416548929 0.380262562 0.365156846 0.355215267 0.364630841 0.391344904   
## 6653580|43-G/T 6657145|22-C/A 6661660|20-C/T 6652645|41-C/T 6651100|28-C/T 6661548|20-A/G 6657725|32-C/T 6652908|9-A/T 6661838|60-T/G 6652562|28-G/A 6654077|33-C/T   
## 0.406645328 0.366805411 0.392721276 0.408438844 0.367402919 0.429182564 0.397769376 0.395671392 0.369577631 0.423440454 0.385199653   
## 6661761|38-G/A 6658102|52-C/T 6657350|31-T/A 6651178|33-C/T 6661253|38-T/C 100104030|16-C/A 6664895|24-C/A 6653522|21-A/G 6661899|11-A/G 6650883|48-C/T 6661607|53-C/G   
## 0.424822990 0.393491124 0.394859742 0.353298611 0.421117565 0.444955297 0.486111111 0.379672481 0.427307075 0.365479518 0.351000023   
## 6654004|30-T/A 6653722|5-T/G 6654003|26-C/A 6652045|5-C/T 6658305|27-T/C 6657714|46-T/C 6661603|40-G/C 6650949|5-A/T 6664725|29-A/G 6657697|38-A/G 6661471|62-C/G   
## 0.381786045 0.386923457 0.387351611 0.406501096 0.409164203 0.368507561 0.366230678 0.328851087 0.499288003 0.337522463 0.366074177   
## 6661765|40-G/A 6661481|66-A/C 6653282|53-T/C 6652110|26-C/T 6652196|51-C/T 6652944|56-G/A 6658191|17-C/G 6661286|15-G/A 6653684|7-T/C 6653203|66-A/G 6661751|44-T/G   
## 0.367241281 0.469320764 0.373915406 0.407684326 0.417664356 0.401234568 0.394017743 0.326666084 0.373360673 0.363044807 0.452353497   
## 6661711|66-G/A 6650674|36-C/T 6653554|14-G/A 6651804|55-G/C 6664076|29-C/A 6663980|50-G/A 100102214|5-C/T 6653379|50-A/G 6651865|33-T/G 6661260|22-A/T 6651954|62-T/C   
## 0.355029586 0.348750000 0.361225461 0.378105469 0.352582871 0.330876560 0.384929693 0.355377445 0.366598934 0.346479639 0.342459505   
## 6656942|42-G/A 6652635|57-G/A 6661149|41-C/T 6650632|65-G/A 6650568|31-G/C 6650938|6-C/T 6658511|21-A/C 6654094|65-T/C 6653106|31-C/T 6661381|44-A/G 6652779|66-A/G   
## 0.337428701 0.348932064 0.410356302 0.375000000 0.361267761 0.354451055 0.359729604 0.298200692 0.355576472 0.333579882 0.334821818   
## 6650898|47-G/A 6657805|7-A/G 6661727|46-C/T 6662592|9-C/T 6661085|13-C/T 6661239|45-A/G 6665990|9-G/C 6650977|39-G/A 6652000|22-C/T 6658391|30-C/T 6661184|41-C/G   
## 0.343624357 0.335489191 0.341986852 0.359033597 0.334687500 0.358109879 0.488560130 0.315688776 0.313894032 0.313123320 0.497601244   
## 6651519|67-C/G 6652011|54-C/T 6661376|29-C/T 6650669|9-A/G 100073501|45-A/G 6651742|50-G/A 6653416|29-C/T 6661643|49-G/A 6650635|62-G/A 6651529|9-C/T 6652878|58-G/T   
## 0.346449653 0.338139120 0.286242604 0.342245360 0.365569273 0.329260445 0.388750445 0.310431670 0.349103870 0.324222727 0.351642541   
## 6665222|67-C/A 6661481|18-C/T 6665990|48-C/G 6661216|67-C/T 6663955|62-T/C 6652246|10-G/A 6661167|12-T/A 6661710|53-G/A 6664085|17-G/T 6661652|62-A/C 6657045|15-A/G   
## 0.329452369 0.498413013 0.494289377 0.302341425 0.499288003 0.315486069 0.359091602 0.307730720 0.351536448 0.436552524 0.360991736   
## 6661805|6-C/G 6652339|26-G/T 6661277|47-G/A 6661335|49-T/G 6652597|28-C/T 6661737|51-G/T 6664079|62-A/T 6661334|49-G/T 6661187|52-C/T 6653800|24-G/A 6665242|22-G/A   
## 0.481269511 0.369318899 0.304687500 0.329406498 0.306088422 0.290985434 0.293933852 0.332564611 0.313474847 0.302931891 0.499913435   
## 6651247|35-C/G 6653693|39-C/A 6661436|12-T/C 6650629|61-C/A 6653328|49-C/T 6650603|26-A/G 6651494|48-G/A 6652060|23-C/T 6657933|10-C/T 6651038|40-T/C 6664362|28-C/T   
## 0.336734694 0.418375676 0.307176664 0.305040847 0.386007629 0.340790816 0.325034715 0.298995020 0.372561033 0.274027258 0.290885295   
## 6651571|67-C/T 6664050|15-A/G 6652084|30-C/T 6661846|32-C/T 6653638|33-A/C 6657305|12-A/C 6663909|36-C/T 6661305|58-A/G 6657606|35-G/A 6661206|19-A/C 6657339|6-G/A   
## 0.306088422 0.343405437 0.310444118 0.300554017 0.322962912 0.289027686 0.302223013 0.263671875 0.314440481 0.270258096 0.317198486   
## 6657292|22-T/A 6661485|59-A/G 6650475|43-C/T 6652083|41-G/A 6663998|25-T/C 6661115|22-T/G 100102214|35-G/A 6651822|26-T/C 6653698|49-A/T 6651072|34-A/C 6661221|40-G/A   
## 0.325413223 0.287491224 0.326666084 0.296796875 0.283264535 0.303680304 0.324795217 0.296124256 0.340894149 0.290487484 0.285473198   
## 6664084|45-C/T 6664046|47-A/G 6664412|13-G/A 6652764|38-C/T 6652859|41-C/T 6662842|43-C/T 6653459|28-T/C 6652467|20-G/T 6658444|32-T/G 6663948|54-G/A 6661848|65-T/G   
## 0.490898211 0.290657439 0.369845898 0.283439258 0.341479994 0.363044807 0.293589115 0.287929878 0.276854737 0.294464412 0.277777778   
## 6661692|19-C/T 6661666|47-C/A 6657189|5-T/A 6663931|25-C/T 6661747|23-A/G 6664777|21-T/G 6657196|41-G/A 6662626|20-G/C 6661431|59-G/A 6651183|67-C/T 100020564|19-A/G   
## 0.322544138 0.230897580 0.319061279 0.322457309 0.270747451 0.267561983 0.294131944 0.262187872 0.287459489 0.271074617 0.243472147   
## 6658409|20-A/C 6661097|28-C/T 6657230|7-A/G 6661119|56-G/A 6661554|36-A/G 6650618|9-G/C 6653999|19-C/T 6663991|5-C/T 6652381|42-A/T 6651915|13-C/T 6662884|19-C/T   
## 0.255287981 0.290885295 0.272101832 0.432464022 0.266295294 0.252515859 0.220720222 0.271731191 0.258171488 0.320000000 0.238343142   
## 6664330|6-A/G 6658057|21-T/G 6664271|29-T/G 6658345|31-A/G 6664281|18-T/A 6651466|33-G/A 6651085|26-C/T 6653605|24-T/C 100044679|44-A/G 100115090|8-A/G 6661464|30-G/T   
## 0.235828368 0.256155659 0.320000000 0.275059488 0.238676187 0.256259638 0.252807617 0.257878095 0.264143823 0.222938326 0.243517166   
## 6650884|45-C/T 6661861|5-T/C 6651870|51-T/C 6650549|15-C/T 6662909|15-A/C 6661345|10-T/C 100096951|40-T/A 6651934|39-C/A 6653561|20-A/G 6663982|40-G/A 6661677|22-C/T   
## 0.272455278 0.229185078 0.286463143 0.238049887 0.284081633 0.220406845 0.258702718 0.310172431 0.244112426 0.238140582 0.272651713   
## 6661705|29-C/G 6661413|63-C/T 100065757|18-C/G 6661266|30-A/G 6661310|64-T/C 6661349|63-A/G 100116458|50-G/A 6665749|7-G/A 6652731|67-C/G 6653078|31-C/T 6653889|13-C/T   
## 0.297520661 0.231111111 0.209750567 0.271094775 0.268372578 0.246856509 0.237709360 0.225780972 0.234157986 0.226134798 0.246389054   
## 6650390|62-T/A 6665512|36-G/A 6653694|33-C/T 6661130|57-A/C 6650397|43-A/G 6652725|65-G/A 6664898|31-T/A 6664740|45-G/A 6661717|60-G/A 6661866|27-T/C 6661803|57-G/C   
## 0.215450908 0.249688501 0.252074653 0.219521076 0.264105703 0.226351000 0.230029608 0.224519077 0.214641216 0.253261389 0.201084068   
## 6653812|35-T/C 6653634|39-G/A 6653421|13-A/G 6653117|34-C/G 6652078|22-T/A 6663918|8-C/G 6651738|38-G/C 100073717|6-G/A 6662614|36-C/T 6663009|7-C/T 6665630|52-T/C   
## 0.223304581 0.225406569 0.203386148 0.298575926 0.214082030 0.213322834 0.261012041 0.187398594 0.228046875 0.224403122 0.216813689   
## 6661118|33-G/A 6651890|7-G/A 6650967|42-C/A 6661605|18-C/T 6651286|19-T/A 6653631|43-C/T 6661436|18-C/T 6661386|46-C/T 6656991|15-A/G 6658489|9-C/T 100018527|6-C/T   
## 0.217900944 0.217869030 0.210198310 0.247576177 0.194504300 0.227443445 0.240800000 0.293119065 0.248595041 0.223705850 0.191065441   
## 6663957|56-G/A 6653138|31-G/A 6653361|55-G/A 6662597|30-A/G 6653013|37-T/C 6664770|35-T/G 100018912|62-G/T 6650463|42-T/A 6664775|59-A/G 6651694|29-A/T 6664064|49-A/G   
## 0.217145153 0.192293401 0.191326531 0.175206059 0.217379722 0.197530864 0.178021643 0.203898457 0.399865694 0.171799983 0.185613926   
## 6652918|18-G/A 6651840|35-G/A 6651055|13-G/A 6653477|22-A/T 6661719|26-T/A 6661828|67-T/A 6654030|47-G/A 6665066|58-G/C 6653260|47-G/T 6650860|49-G/A 6654039|20-G/A   
## 0.203341855 0.199019025 0.213367347 0.177316574 0.201037723 0.379347492 0.175434065 0.486111111 0.181315518 0.177843914 0.209200592   
## 6665336|52-C/T 6650985|20-G/A 6665243|28-G/C 6662888|44-A/C 6665236|63-T/C 6663983|17-C/T 100066027|14-A/T 6653607|5-T/C 6661170|39-C/T 6661781|60-G/A 100073694|44-G/A   
## 0.213175309 0.173502704 0.459861111 0.181980398 0.191095531 0.164703329 0.165604352 0.177297690 0.233550000 0.160049246 0.174566501   
## 6663947|55-T/C 6661831|54-T/C 6652266|47-T/C 6663080|20-G/A 6665672|66-T/A 6658491|28-C/A 6661680|19-G/T 6662595|39-C/T 6665990|6-A/T 6657377|47-C/T 6661828|68-T/A   
## 0.173258274 0.158637963 0.181110147 0.156973778 0.168420303 0.245812303 0.144042969 0.203550000 0.430429579 0.138415277 0.355795610   
## 6651958|27-A/G 6653919|17-C/T 100021874|46-A/G 100016068|62-T/A 6665489|31-C/T 100082278|57-C/T 6651291|51-G/T 6653890|21-C/T 6663954|56-C/A 100021943|40-T/C 6652214|62-T/A   
## 0.174190739 0.196168392 0.127603678 0.141726300 0.142298512 0.269064002 0.157550535 0.146337936 0.299596294 0.139820634 0.167243767   
## 100022950|33-A/C 6651253|68-C/T 6650643|36-C/A 6652860|42-G/A 6664014|62-G/A 6661808|48-C/T 6658138|27-A/C 100017513|60-C/T 6661261|32-C/T 6652821|67-C/T 6666304|10-A/T   
## 0.165289256 0.185739794 0.293367347 0.137845179 0.146189836 0.154074592 0.144151467 0.157550535 0.193761815 0.128240525 0.340598825   
## 6665455|61-G/T 100082682|51-T/C 6653384|6-A/G 100023325|25-A/G 100101067|36-C/T 6651685|49-T/A 6653586|60-T/C 6666177|13-A/T 6652540|8-G/T 6651209|49-A/G 100066244|11-A/T   
## 0.259266972 0.130501693 0.142298512 0.056290695 0.154511719 0.145229689 0.133201955 0.347648000 0.154911243 0.126721684 0.137695513   
## 6652377|20-G/A 6661200|23-T/G 100064741|45-G/C 6658040|18-T/A 6653702|48-T/C 6652310|50-C/T 100080867|16-C/T 6665067|64-C/A 6653076|28-C/T 6653648|6-G/A 6651991|67-A/T   
## 0.228139986 0.119894474 0.336734694 0.119986851 0.116569313 0.148887363 0.135026864 0.358350676 0.112589193 0.168739859 0.126721684   
## 6661634|15-T/G 6664050|24-G/C 6652868|58-A/G 6661564|13-A/G 6650547|43-C/G 100064827|8-G/C 6650552|61-G/A 6661602|25-T/C 6661456|61-G/A 6651197|66-T/A 6652994|27-C/T   
## 0.109335140 0.120842014 0.129799892 0.100724310 0.119434707 0.117842160 0.111018180 0.110406188 0.115957581 0.088518578 0.093341865   
## 6661887|13-A/T 6661310|58-T/C 6650745|19-T/G 100017712|8-T/A 6651911|52-G/A 6650417|11-A/C 6652308|53-T/G 6661174|36-C/T 6651243|32-G/A 6662595|43-G/A 6661238|17-G/T   
## 0.160512000 0.128582766 0.109165761 0.099525104 0.088479116 0.097588443 0.075730445 0.189921875 0.130054223 0.101539907 0.098829766   
## 6653091|46-C/G 6651733|50-G/A 6661209|58-G/A 6662998|47-T/C 6650989|12-C/T 6661260|32-A/C 6664754|18-T/C 6653705|22-C/A 6651897|14-A/G 6661468|27-G/A 6662877|32-C/T   
## 0.109518659 0.104938272 0.129243827 0.117187500 0.111409280 0.138386661 0.084938272 0.092091571 0.090120526 0.077949219 0.067145558   
## 6652769|52-G/A 6657468|35-T/C 6664040|37-G/T 6654036|20-C/G 6652581|49-T/C 6663926|28-C/T 6650558|18-A/C 6650767|11-C/T 6650470|54-G/A 6652008|64-T/A 100066158|21-G/A   
## 0.079073228 0.064823766 0.078220266 0.090331451 0.062434964 0.271074617 0.082415696 0.064444444 0.078031638 0.049554726 0.076474274   
## 6661900|39-T/C 100022191|13-A/T 6665045|39-A/T 6652766|56-A/G 6652767|24-T/A 6651271|49-G/A 6661314|26-G/A 6653619|65-T/C 100116986|5-T/C 100116987|6-T/G 6653081|42-A/G   
## 0.471748186 0.091392000 0.068877551 0.082634298 0.061695021 0.069174928 0.062047995 0.049828900 0.065143290 0.064444444 0.053057851   
## 6664720|40-A/G 6652605|24-T/C 6661530|52-T/G 6653380|28-A/G 6661534|38-G/A 100100705|17-C/A 6661784|26-C/G 6653485|62-T/C 6658269|15-G/A 6657310|18-C/G 6653319|56-C/A   
## 0.056844006 0.040386864 0.043082536 0.030761719 0.039200000 0.037023852 0.059440637 0.032473745 0.030897464 0.026105092 0.042233839   
## 6662895|13-G/A 6650569|12-C/A 100018011|33-A/T 6653025|64-G/A 100020592|58-C/G 6651157|23-G/A 6652995|7-T/C 6664385|5-T/G 100080823|15-G/A 100098565|15-A/G 6662594|6-A/G   
## 0.033435143 0.051911111 0.053599107 0.024386526 0.037195930 0.019228957 0.019415609 0.017619753 0.017776348 0.035702479 0.026082400   
## 6662608|14-T/C 100111015|17-T/A 6651630|13-G/A 100015677|15-G/A 100021199|37-T/C 6651723|7-T/C 6651946|25-T/C 6652107|59-C/T 6662703|23-A/G 6656926|24-G/A 6662639|8-G/T   
## 0.027901388 0.035386738 0.020199917 0.022170162 0.007272630 0.012986458 0.024238775 0.018016529 0.021975309 0.022170162 0.022810651   
## 6644134|13-A/C 100015999|30-C/T 6651264|67-C/T 100082192|45-T/C 6658187|20-A/G 6658030|16-T/G 6664447|43-A/G 6657081|38-A/G 6657519|27-C/A 6657646|21-G/A 6658294|22-A/G   
## 0.037408431 0.038529014 0.023665244 0.017389966 0.015266272 0.012421875 0.029843893 0.004819249 0.012525598 0.034771713 0.018866213   
## 6663106|39-T/C 6665877|8-T/C 6657134|12-C/T 6662930|5-G/T 100073664|24-C/A 100093267|33-A/T 6665045|33-A/T 6653064|39-T/C 6652028|11-T/C 6652053|54-A/G 6661327|40-C/T   
## 0.016259070 0.013792438 0.025969529 0.018347051 0.010049995 0.031000062 0.031737773 0.008163128 0.013362424 0.016805516 0.028623818   
## 100020810|55-A/G 6661141|23-C/T 100018274|35-A/G 100020489|64-T/C 100021048|30-T/C 100021494|48-T/C 100015195|36-C/T 6652099|5-C/T 100019298|65-T/C 100020731|53-A/G 100065190|44-T/C   
## 0.037023852 0.012684473 0.027644336 0.015112474 0.016259070 0.011235596 0.012421875 0.013422206 0.016900181 0.021319486 0.012473521   
## 6651997|59-A/G 6658436|20-C/T 6650975|51-G/A 6657565|7-G/A 6658077|34-T/C 6652620|41-C/T 6657312|42-G/A 6657368|39-G/A 6657412|9-T/G 6657526|48-C/T 6658588|11-C/T   
## 0.005509600 0.012902682 0.013244444 0.013985320 0.005063259 0.013422206 0.008474423 0.008888712 0.016527778 0.009302122 0.009478458   
## 6662668|7-A/T 6662868|15-G/A 6663029|17-G/A 6664446|24-T/C 100086116|7-C/A 100093344|14-G/C 100098451|30-G/T 100104877|27-G/A 6656935|13-T/G 6657240|11-C/T 6657387|17-A/T   
## 0.012421875 0.017776348 0.018807082 0.020405994 0.012525598 0.006230469 0.012421875 0.012421875 0.010256138 0.014183673 0.012421875   
## 6658126|24-C/G 6662893|11-C/G 100098564|20-T/C 100108662|16-G/A 100090375|13-A/C 6654111|67-T/C 100018022|29-C/T 100018793|30-G/A 100019919|22-G/A 100020224|39-A/G 100021950|26-G/A   
## 0.012902682 0.013920430 0.004728106 0.008031998 0.025100546 0.000000000 0.018689925 0.022672755 0.019542071 0.008771760 0.025312295   
## 100065898|33-G/A 100016342|65-A/G 6653141|47-T/A 100020182|5-A/G 100017739|16-A/G 100019425|22-T/C 100019993|60-T/C 100020111|24-T/C 100022090|7-C/A 100020509|41-C/T 100019969|57-T/C   
## 0.017855694 0.029261837 0.021050249 0.008968428 0.004414989 0.008583532 0.008928392 0.010256138 0.004192854 0.008968428 0.014284975   
## 100021750|68-T/G 6650682|7-C/T 100073640|6-A/G 6658242|13-G/A 6661085|49-C/T 6650645|14-C/G 100022464|43-T/A 100065437|41-T/C 6652497|42-C/A 6653265|58-G/C 6653475|24-G/A   
## 0.004282636 0.005037751 0.008771760 0.013512888 0.017855694 0.005037751 0.012370655 0.013186232 0.008196582 0.019415609 0.004474250   
## 100021941|30-C/T 6658496|17-G/A 6661755|16-A/C 6661423|60-C/T 100015613|67-G/A 6652888|64-A/G 6657111|13-T/C 6658119|34-T/A 6661367|26-G/T 100111976|26-A/G 100016385|11-T/C   
## 0.008695486 0.000000000 0.024892310 0.033888228 0.017697704 0.008583532 0.023252595 0.008403212 0.011172832 0.007117347 0.017776348   
## 100073644|37-C/T 6650454|46-A/G 6650627|13-T/C 6651042|67-C/T 6652424|44-T/C 6653438|30-C/T 6653954|43-A/G 6657314|43-G/A 6657355|38-G/A 6657359|15-A/G 6657460|29-G/A   
## 0.010869241 0.009090720 0.011695502 0.005970096 0.012473521 0.008695486 0.010049995 0.004282636 0.019800000 0.009049587 0.005089025   
## 6657482|8-A/G 6657781|17-C/A 6661090|62-A/T 6661394|35-A/G 6662671|17-A/G 6662872|17-G/T 6663077|27-G/T 100080773|11-T/C 6650529|9-A/G 6651847|21-G/A 6652313|42-C/T   
## 0.008928392 0.009389462 0.004106759 0.000000000 0.006600588 0.009345588 0.008695486 0.008928392 0.008474423 0.008810400 0.012421875   
## 6656897|6-A/T 6657147|18-G/A 6657176|29-T/G 6657326|12-G/A 6657353|6-A/G 6657411|13-G/A 6657545|31-T/C 6657603|29-G/A 6657689|26-G/A 6657743|8-C/G 6657998|8-A/G   
## 0.015502930 0.013422206 0.008657845 0.012819979 0.013128530 0.006779583 0.013604804 0.010152020 0.012738330 0.008196582 0.017776348   
## 6658208|29-C/T 6658287|13-A/G 6658348|17-A/T 6658475|20-C/A 6658498|16-G/A 6658580|46-G/C 6661448|44-G/T 6661799|23-C/T 6662617|41-T/G 6662633|33-G/C 6662813|9-G/T   
## 0.000000000 0.008474423 0.008298611 0.009049587 0.015998959 0.008888712 0.008298611 0.012684473 0.008403212 0.004140769 0.010100750   
## 6662843|9-A/G 6662968|7-T/C 6662976|12-A/C 6664360|25-T/C 6664442|16-C/T 6664875|15-A/G 100021224|39-C/T 100073899|13-T/C 100098800|29-G/T 100100663|9-T/A 6650431|37-G/A   
## 0.008474423 0.012986458 0.008510483 0.006116150 0.009661608 0.026900826 0.019800000 0.023252595 0.010152020 0.008657845 0.005633758   
## 6656974|5-A/T 6657112|32-C/T 6657945|33-T/A 6658433|38-T/A 6664304|20-G/T 6664309|9-T/C 100116189|14-C/A 100045177|15-A/G 100073820|20-A/G 100086048|24-A/T 100098455|12-T/G   
## 0.008264321 0.017240076 0.008196582 0.004192854 0.008368053 0.017542486 0.012473521 0.009049587 0.007662722 0.012269471 0.008657845   
## 100098486|16-T/A 100098772|34-A/T 100112391|7-C/G 6651055|18-T/C 100086270|5-G/C 100112446|22-G/C 6661857|31-C/T 6658676|11-C/G 100016220|5-A/G 100021127|7-A/G 6665873|25-A/G   
## 0.005167924 0.008196582 0.016459772 0.021975309 0.030761719 0.111605860 0.008771760 0.009302122 0.008968428 0.005063259 0.014387734   
## 6654134|52-T/A 100016595|6-G/A 100021410|63-C/T 100023315|21-T/C 6653760|49-C/A 100021585|32-T/G 100023219|12-A/G 6658683|43-C/T 100064732|20-A/G 100016355|33-T/C 100019393|16-C/T   
## 0.142540816 0.007721892 0.012958412 0.008888712 0.018689925 0.008264321 0.017465893 0.018516901 0.073964497 0.008849383 0.014457065   
## 100020119|15-A/G 100022894|28-G/A 100082537|56-C/T 100016273|19-A/G 100023327|12-C/T 100015858|19-C/T 100022410|6-G/A 100017258|51-G/T 100019095|48-C/T 100020063|20-G/A 100015954|31-A/G   
## 0.000000000 0.014387734 0.009389462 0.009259059 0.006557306 0.000000000 0.000000000 0.012847429 0.004661979 0.005037751 0.006078971   
## 100021964|13-G/C 100085852|36-T/C 6651226|18-G/C 100021819|62-A/C 100022277|8-T/G 100064827|60-G/T 100018209|24-G/C 100022569|31-G/A 6653298|40-A/G 100015576|20-G/A 100016155|45-A/G   
## 0.005305002 0.012902682 0.006005952 0.004282636 0.004264373 0.004246265 0.004728106 0.008583532 0.004494359 0.005037751 0.000000000   
## 100018361|5-C/T 100018644|13-A/G 100065285|54-G/A 100066085|48-C/G 100066350|63-A/G 100082653|31-C/G 100019242|15-T/C 100065918|65-C/T 100082574|16-T/C 100112503|22-T/C 6651116|23-G/A   
## 0.006733930 0.012684473 0.009523591 0.004357278 0.009478458 0.000000000 0.005730612 0.000000000 0.000000000 0.004301055 0.000000000   
## 6664424|11-C/T 100017539|66-C/A 100019104|53-C/T 100020067|42-A/C 100020868|41-A/G 100064882|50-T/C 6658317|12-A/T 6661605|7-T/C 6664288|12-C/T 100016786|17-G/A 100020956|6-T/C   
## 0.000000000 0.009174117 0.004661979 0.004123694 0.008771760 0.009216392 0.004376347 0.000000000 0.006557306 0.012578112 0.000000000   
## 100016197|32-C/T 100017640|9-C/G 100018738|55-G/T 6651375|43-G/A 6651394|40-A/T 6657692|30-G/C 6661438|21-G/A 100015230|14-A/T 100015429|54-A/G 100016348|67-T/C 100022665|32-G/A   
## 0.000000000 0.004728106 0.009851975 0.008546851 0.004157986 0.004705856 0.008810400 0.004228311 0.008438667 0.009755863 0.012631069   
## 6650646|12-A/G 6651058|8-C/T 6652871|25-G/T 6653284|49-A/G 100020780|47-T/C 100082291|18-C/T 6657270|16-C/A 6658306|32-A/G 6663971|20-C/T 100018785|45-G/A 100019578|24-A/G   
## 0.000000000 0.004157986 0.009216392 0.008733456 0.006920332 0.000000000 0.009174117 0.005361892 0.008620528 0.005141354 0.008474423   
## 100021429|16-A/G 6651301|13-T/C 6653801|25-T/C 6662791|9-T/C 6665675|15-G/A 6665677|34-G/A 6651053|25-C/T 6651062|23-G/C 6657266|49-A/G 6661781|11-G/A 6662884|20-G/A   
## 0.013186232 0.000000000 0.000000000 0.008810400 0.004474250 0.004728106 0.006779583 0.004192854 0.008733456 0.000000000 0.005037751   
## 6661633|24-T/C 100064957|57-C/G 6650480|42-G/T 6651168|20-T/C 6651202|6-G/T 6651669|51-A/T 6651901|52-A/G 6652133|6-G/A 6652277|34-G/T 6652429|23-C/A 6652852|41-C/T   
## 0.000000000 0.005141354 0.008333187 0.009433750 0.005509600 0.004106759 0.004157986 0.007721892 0.000000000 0.000000000 0.004494359   
## 6653859|66-G/C 6657107|30-C/T 6657341|14-T/G 6657827|41-T/C 6657863|36-T/C 6657972|11-T/G 6658332|28-G/A 6661576|17-T/C 6662852|8-G/C 6665753|18-G/A 6665974|16-T/A   
## 0.000000000 0.004357278 0.000000000 0.004414989 0.012902682 0.004301055 0.000000000 0.000000000 0.000000000 0.013422206 0.005167924   
## 6665974|39-G/C 100022319|61-G/T 100066473|44-C/T 6650457|59-C/T 6650512|39-G/A 6650541|48-T/C 6650816|44-C/T 6651070|58-A/C 6651408|58-C/G 6651681|14-C/T 6651690|41-A/G   
## 0.004434568 0.005089025 0.010470914 0.000000000 0.004454321 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651751|52-A/G 6651951|29-T/C 6652480|24-G/A 6652536|25-A/G 6653136|38-A/G 6653193|66-G/C 6653366|47-T/C 6653406|51-T/C 6653654|13-A/G 6653743|54-T/C 6653795|65-G/T   
## 0.004157986 0.000000000 0.013362424 0.000000000 0.004819249 0.000000000 0.000000000 0.004376347 0.000000000 0.008368053 0.000000000   
## 6656968|20-T/C 6657138|49-C/T 6657141|6-G/A 6657590|27-T/C 6657970|16-C/G 6658518|17-G/A 6658664|15-C/A 6661383|36-A/G 6661406|53-T/C 6661709|47-A/C 6661820|30-C/T   
## 0.004728106 0.008968428 0.007721892 0.008163128 0.000000000 0.000000000 0.009389462 0.005089025 0.000000000 0.004106759 0.004357278   
## 6661892|24-C/T 6662654|9-C/A 6662663|5-A/T 6663104|29-A/G 6664717|21-A/G 6665800|40-A/C 6665804|30-T/C 100018586|15-A/G 100045576|29-G/A 100064632|55-G/A 100124805|23-T/C   
## 0.008230312 0.016459772 0.000000000 0.009389462 0.004705856 0.000000000 0.000000000 0.000000000 0.000000000 0.008888712 0.000000000   
## 6650420|21-G/A 6650787|62-C/A 6650795|22-T/C 6651016|52-G/A 6651805|15-A/G 6652208|23-C/T 6652257|65-G/T 6652383|57-G/C 6652388|11-A/G 6652788|54-A/G 6652943|57-G/A   
## 0.000000000 0.000000000 0.004301055 0.005141354 0.000000000 0.004246265 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653199|35-A/C 6653447|32-A/G 6653467|25-G/A 6653565|10-G/C 6653569|24-A/T 6654084|42-A/G 6656901|37-A/C 6656919|48-T/A 6656965|28-C/T 6657179|25-G/A 6657434|21-C/A   
## 0.000000000 0.005361892 0.004376347 0.000000000 0.004106759 0.004535124 0.000000000 0.004210508 0.005970096 0.004376347 0.004123694   
## 6657454|17-T/C 6657477|8-A/G 6657523|10-C/T 6657578|8-C/T 6657628|10-A/G 6657698|41-A/G 6657753|24-G/A 6657784|15-C/G 6657818|27-A/G 6657821|26-T/C 6657854|14-G/A   
## 0.000000000 0.004474250 0.009661608 0.004157986 0.004962748 0.008771760 0.000000000 0.004175347 0.011975613 0.011975613 0.009708507   
## 6657918|33-T/A 6657923|13-T/C 6657975|18-C/G 6658063|26-T/C 6658152|11-T/C 6658175|49-T/C 6658353|18-G/T 6658417|35-C/A 6658431|14-A/G 6658485|8-A/G 6658531|35-G/A   
## 0.004106759 0.000000000 0.005277008 0.000000000 0.008928392 0.006430801 0.007662722 0.000000000 0.004494359 0.000000000 0.005730612   
## 6661099|20-G/A 6661250|41-T/C 6661252|5-A/G 6661823|31-T/C 6661826|50-T/A 6661853|33-G/A 6662682|18-G/C 6662708|45-C/A 6662717|10-T/A 6662720|17-G/A 6663956|7-C/T   
## 0.005037751 0.004414989 0.008968428 0.006825859 0.004535124 0.004494359 0.011975613 0.004494359 0.004123694 0.006309085 0.005037751   
## 6664324|31-T/C 6664897|36-T/G 6664904|21-A/G 6665135|35-C/T 6665977|58-C/T 100062054|9-T/G 100066053|65-C/G 100073867|18-T/C 100098449|11-T/C 100102329|39-G/C 100104849|27-A/C   
## 0.000000000 0.004210508 0.004705856 0.000000000 0.006230469 0.000000000 0.000000000 0.011049383 0.004474250 0.004434568 0.008196582   
## 100118311|8-T/G 6651728|12-T/C 6651869|31-G/A 6651992|39-T/C 6652070|15-A/G 6652698|58-A/G 6653498|29-C/G 6656984|39-A/T 6656988|16-A/T 6657054|5-A/G 6657255|43-C/T   
## 0.000000000 0.008968428 0.000000000 0.000000000 0.009049587 0.004640346 0.004773242 0.004414989 0.007781982 0.008968428 0.009302122   
## 6657257|18-T/G 6657264|21-A/C 6657486|25-A/G 6657731|27-T/C 6657762|30-T/G 6658275|5-T/C 6658351|8-T/A 6658356|40-T/A 6662713|37-C/T 6662735|7-T/C 6662802|35-T/C   
## 0.005089025 0.004228311 0.000000000 0.008163128 0.004106759 0.005602197 0.008368053 0.000000000 0.010869241 0.006514588 0.000000000   
## 6664285|14-G/T 6664286|5-A/G 6664411|22-G/A 100116189|12-G/A 100020566|50-G/A 100073416|9-G/C 100073555|13-T/C 100073946|24-C/A 100082262|34-C/T 100082279|42-T/G 100093533|7-G/T   
## 0.005361892 0.008968428 0.000000000 0.012819979 0.008196582 0.004414989 0.000000000 0.005037751 0.004414989 0.000000000 0.008196582   
## 100093556|10-T/A 100093571|9-A/T 100093658|5-T/C 100102354|38-T/G 100102368|8-T/C 100108745|39-G/C 100124806|24-A/G 6652013|36-G/A 100019613|42-A/G 6653942|18-C/G 100021748|48-G/A   
## 0.004123694 0.004106759 0.005602197 0.004264373 0.004618913 0.004434568 0.000000000 0.000000000 0.004535124 0.000000000 0.013985320   
## 100022307|64-C/T 6661279|61-A/G 100016043|65-A/G 100021551|26-C/G 6651509|9-T/C 100015681|31-G/A 100022444|19-C/T 100065978|51-A/C 100015971|32-G/A 100018341|11-C/T 100018791|30-T/A   
## 0.004514650 0.004514650 0.009851975 0.000000000 0.000000000 0.004301055 0.010470914 0.000000000 0.008438667 0.004750567 0.004576635   
## 100021444|27-G/T 6651402|31-T/C 6652371|36-A/G 100016955|21-T/C 100017267|60-T/C 100017271|28-T/A 100017633|14-G/T 100018216|18-C/T 100018585|65-G/A 100018930|7-A/G 100019458|6-T/C   
## 0.004357278 0.000000000 0.000000000 0.008888712 0.000000000 0.008403212 0.010694878 0.000000000 0.000000000 0.005063259 0.000000000   
## 100020508|64-T/C 100021998|13-T/C 100065288|30-C/T 6657675|5-C/T 100018006|38-A/G 100018907|18-T/C 100018908|67-C/T 100019522|42-C/T 100021552|23-G/T 100021990|59-T/C 100066166|11-T/A   
## 0.025058620 0.011695502 0.000000000 0.006733930 0.009615160 0.011049383 0.005970096 0.008298611 0.004301055 0.004683815 0.004175347   
## 6651977|40-G/C 6661494|35-T/C 6661600|20-T/C 100023675|41-A/G 100064707|39-C/T 100066332|9-G/A 100111975|14-G/C 100015765|23-G/A 100017875|29-A/G 100019456|25-T/C 100019962|30-A/G   
## 0.000000000 0.000000000 0.000000000 0.008771760 0.000000000 0.004210508 0.042792969 0.004842586 0.004705856 0.012194663 0.000000000   
## 100020185|57-C/A 100020870|33-C/G 100021266|13-G/A 6651172|33-A/G 100015703|20-A/G 6653988|60-A/T 100018373|30-C/T 100020483|16-G/A 100022388|34-C/T 100022854|43-G/T 100023104|56-C/T   
## 0.007067049 0.009090720 0.006779583 0.004683815 0.007662722 0.004338374 0.004357278 0.008031998 0.008810400 0.004106759 0.000000000   
## 100023409|22-T/C 100086339|36-T/G 6651925|23-G/C 100120327|18-G/A 100120327|6-G/A 100016290|59-A/C 100020594|60-T/A 100022242|47-G/T 100022320|10-T/C 100022502|23-T/A 6651745|39-T/C   
## 0.008583532 0.004210508 0.000000000 0.000000000 0.015383691 0.006269530 0.004157986 0.000000000 0.004357278 0.004123694 0.008163128   
## 6661848|25-T/G 100016236|36-G/T 100016349|39-A/G 100016910|15-T/A 100020122|19-C/G 100021092|17-T/C 100022165|12-A/G 100023470|59-G/A 6661692|56-G/A 100016458|65-C/G 100018964|48-T/G   
## 0.004597677 0.011049383 0.008771760 0.017092747 0.004728106 0.013512888 0.004395583 0.008771760 0.000000000 0.000000000 0.000000000   
## 100021554|25-A/G 100023185|19-T/G 6650701|18-A/G 6652394|37-T/C 6653506|13-T/A 6664058|35-C/T 100016479|45-A/T 100017508|19-C/G 100018962|16-T/C 100022682|11-A/T 100066335|57-A/T   
## 0.014387734 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100082668|8-A/T 6658494|15-A/G 100015625|54-A/G 100016249|62-A/C 100016393|18-A/T 100016660|55-C/T 100017075|58-G/A 100017124|8-A/G 100017541|11-T/A 100018026|11-T/C 100019630|31-T/C   
## 0.004338374 0.000000000 0.000000000 0.008546851 0.004395583 0.000000000 0.000000000 0.008928392 0.004175347 0.004474250 0.000000000   
## 100019855|44-T/C 100019873|44-G/A 100019915|44-G/T 100022465|65-C/G 100022648|51-G/A 100044512|21-C/T 6650696|57-G/A 6653452|20-G/A 100015340|55-T/G 100017500|23-A/C 100020588|47-C/A   
## 0.004175347 0.000000000 0.000000000 0.000000000 0.000000000 0.005115056 0.000000000 0.000000000 0.004434568 0.004434568 0.000000000   
## 100022422|51-G/T 100022425|5-T/C 100023388|34-C/A 100023484|57-G/A 100023525|29-A/G 100064648|32-T/C 100065646|5-C/A 100073396|12-C/T 100073814|33-T/C 6650655|58-G/A 6651105|51-A/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.004705856 0.004192854 0.004434568 0.000000000 0.004434568 0.000000000 0.000000000   
## 6651192|9-A/G 6652274|53-T/C 6652608|18-G/C 6652649|33-C/G 6653266|5-T/A 6661462|57-A/G 100016352|41-C/T 100016515|37-T/A 100016629|18-T/C 100017186|6-T/C 100018441|46-A/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.011049383 0.011560303 0.000000000   
## 100019819|59-T/G 100021768|16-G/T 100022658|14-G/A 100022749|22-C/T 100023505|21-C/G 100064613|60-T/C 6650443|20-C/T 6650647|27-A/C 6650672|16-T/C 6650875|47-G/A 6652044|30-A/G   
## 0.004282636 0.006600588 0.004866151 0.000000000 0.004140769 0.004474250 0.000000000 0.000000000 0.000000000 0.009433750 0.000000000   
## 6652814|39-C/T 6653050|59-G/T 6653245|23-A/G 6653382|37-T/C 100015237|28-T/A 100016165|7-G/A 100017157|49-G/A 100017486|22-T/G 100019175|10-C/G 100019665|26-G/A 100020841|64-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004683815 0.000000000 0.004282636 0.000000000 0.000000000 0.010100750   
## 100120329|23-A/G 6650705|36-C/T 6651136|7-G/C 6651295|17-C/T 6651888|7-A/G 6652092|41-A/G 6652390|29-T/C 6653344|40-A/G 100017290|62-G/T 100017981|57-C/T 100018180|55-T/C   
## 0.008849383 0.000000000 0.000000000 0.000000000 0.000000000 0.004395583 0.000000000 0.000000000 0.000000000 0.000000000 0.011904335   
## 100018460|39-T/G 100018667|65-G/A 100019573|61-A/C 100020403|29-G/T 100023540|56-T/G 100065318|8-A/G 100066600|5-T/C 100066622|14-T/C 100086014|36-T/C 100098840|27-G/A 6650711|25-C/A   
## 0.008333187 0.005089025 0.000000000 0.010152020 0.000000000 0.000000000 0.000000000 0.004705856 0.012902682 0.006230469 0.000000000   
## 6651249|51-G/C 6653001|20-G/A 6653114|14-T/A 6653811|17-T/C 6661187|29-A/C 100015694|44-A/T 100016554|8-A/G 100017386|12-G/A 100017844|43-G/A 100020562|42-C/G 100021051|67-G/T   
## 0.000000000 0.000000000 0.004123694 0.000000000 0.000000000 0.004123694 0.013362424 0.006430801 0.012792647 0.000000000 0.004282636   
## 100065266|5-T/C 6650693|44-C/T 6651276|7-A/G 6651724|68-A/G 6652175|66-T/C 6652356|17-A/G 6653008|30-C/G 6653473|47-C/T 6653869|47-T/G 6654016|14-A/G 6664729|22-C/T   
## 0.000000000 0.000000000 0.005063259 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.009132228   
## 6661750|65-G/A 100016089|30-C/T 100017364|16-A/G 100017568|38-A/G 100017636|20-G/A 100018230|62-T/C 100020647|25-G/A 100023048|6-T/C 100023313|65-G/T 100023842|66-T/C 6650662|57-T/A   
## 0.000000000 0.000000000 0.000000000 0.009615160 0.005037751 0.000000000 0.008733456 0.000000000 0.009216392 0.000000000 0.000000000   
## 6650857|56-T/C 6650871|15-T/G 6652354|41-T/G 6652712|18-A/G 6652897|32-G/A 6653119|17-A/G 6653277|45-G/C 6653413|34-C/T 6653686|19-A/G 6653906|8-T/C 6656936|12-G/A   
## 0.000000000 0.000000000 0.004210508 0.000000000 0.004228311 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6658216|16-T/C 6661637|61-A/T 6664071|59-C/T 6652420|13-T/G 100017654|43-G/C 100021742|38-C/A 100044665|10-T/G 100064985|48-C/T 100065246|12-A/G 100066557|28-C/T 100082397|38-C/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.004106759 0.000000000 0.008368053 0.000000000 0.004395583 0.000000000 0.000000000   
## 6650620|8-A/G 6650692|56-G/A 6650978|6-G/A 6651221|15-T/C 6651235|33-A/G 6651703|33-T/C 6651891|44-T/C 6652170|11-A/G 6652463|46-A/C 6652496|43-C/T 6653226|65-A/G   
## 0.000000000 0.008510483 0.007721892 0.000000000 0.000000000 0.000000000 0.000000000 0.012047750 0.005012500 0.000000000 0.000000000   
## 6653778|39-T/A 6654074|20-G/T 6658572|16-A/G 6661139|49-C/A 6661309|12-G/A 6661345|40-C/G 6662659|12-A/C 100120331|53-T/G 100020242|53-A/G 100021807|31-T/C 100065925|36-C/T   
## 0.004434568 0.000000000 0.004414989 0.000000000 0.000000000 0.004192854 0.004264373 0.008264321 0.000000000 0.000000000 0.000000000   
## 100066073|6-T/C 100102122|31-C/A 6650428|57-G/T 6652370|62-G/A 6653373|60-G/T 6653417|48-C/G 6653777|46-G/T 6653792|53-C/A 6654058|18-T/C 6661147|26-G/C 6661226|53-C/T   
## 0.011560303 0.004106759 0.000000000 0.000000000 0.000000000 0.004357278 0.000000000 0.004175347 0.005540123 0.000000000 0.000000000   
## 6661658|19-C/T 6661670|43-T/C 6663906|23-C/T 6664040|9-G/T 100017806|36-A/G 100019553|65-G/A 100020150|48-T/C 100022824|15-T/C 100045255|15-T/C 100064683|52-A/G 100065044|38-G/T   
## 0.000000000 0.000000000 0.000000000 0.005063259 0.005089025 0.005089025 0.000000000 0.005730612 0.000000000 0.004157986 0.000000000   
## 100065331|11-A/G 100082376|10-G/T 100114017|32-T/C 6650513|52-C/T 6650793|26-A/C 6650805|11-A/G 6650968|18-A/T 6651099|28-A/G 6651150|45-T/C 6651383|67-T/G 6651541|66-T/C   
## 0.000000000 0.000000000 0.000000000 0.005899653 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651588|49-C/T 6651711|11-A/G 6651715|59-C/G 6651731|68-G/T 6652027|41-G/A 6652109|27-A/G 6652130|35-T/C 6652152|19-T/G 6652278|43-G/C 6652658|29-A/T 6652840|16-G/A   
## 0.008968428 0.000000000 0.000000000 0.000000000 0.004157986 0.011975613 0.000000000 0.000000000 0.004106759 0.000000000 0.008031998   
## 6652867|64-C/T 6652883|26-G/C 6653149|58-C/T 6653187|24-G/T 6653229|41-A/G 6653591|11-G/C 6653796|8-T/C 6653829|21-C/A 6653872|47-G/T 6653967|40-G/A 6657086|36-C/A   
## 0.000000000 0.000000000 0.006230469 0.000000000 0.000000000 0.000000000 0.004618913 0.000000000 0.000000000 0.000000000 0.000000000   
## 6657671|40-C/T 6657902|21-T/C 6661102|10-A/G 6661477|67-A/G 6661483|14-G/C 6661530|26-C/G 6661560|54-A/G 6661564|45-T/A 6662672|28-C/A 6664046|51-T/C 6664055|23-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.006230469 0.004705856 0.000000000 0.000000000 0.000000000 0.008733456 0.000000000   
## 100120332|58-C/A 100120330|33-G/T 100015220|59-C/A 100016151|11-T/C 100016562|12-G/A 100016798|34-C/T 100021467|36-G/A 100065538|21-A/T 100065912|28-G/A 100098480|21-A/C 6650742|33-G/A   
## 0.008264321 0.008298611 0.000000000 0.004474250 0.012819979 0.000000000 0.000000000 0.004773242 0.014387734 0.000000000 0.004494359   
## 6650889|38-G/T 6651263|53-A/C 6651318|7-C/T 6651340|27-C/T 6651392|24-C/T 6651403|11-C/A 6651475|6-A/G 6651645|50-G/A 6651662|13-T/A 6651726|49-G/A 6651740|27-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.004123694 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651858|23-A/G 6651880|60-C/T 6651889|58-T/C 6651919|45-G/T 6652026|29-G/T 6652151|12-T/C 6652259|45-G/T 6652382|40-G/A 6652492|21-C/T 6652504|25-A/G 6652541|50-A/G   
## 0.004434568 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.008695486 0.000000000 0.000000000 0.000000000   
## 6652568|29-G/T 6652593|5-G/T 6652667|36-T/C 6652794|64-C/T 6652856|20-T/A 6653235|13-T/G 6653395|26-G/A 6653420|50-G/A 6653458|58-C/T 6653463|23-A/G 6653479|25-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.008849383 0.000000000   
## 6653599|33-C/T 6653745|15-T/C 6653871|33-G/A 6653881|45-G/A 6657644|31-G/T 6657994|16-G/A 6658139|28-G/A 6658379|30-A/G 6658529|38-A/G 6658559|22-T/G 6658652|28-T/C   
## 0.000000000 0.005730612 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004962748 0.004819249 0.000000000 0.004819249   
## 6658660|28-C/G 6661093|40-C/A 6661130|16-T/C 6661369|40-T/C 6661393|35-C/A 6661665|50-T/C 6661672|7-G/A 6661712|36-C/T 6663057|27-A/C 6663982|51-T/G 6665517|21-A/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.004474250 0.000000000 0.000000000 0.006230469 0.004106759 0.000000000 0.009523591   
## 6665665|51-T/C 6665807|65-G/A 100104824|10-C/A 100020394|66-C/G 100020441|43-A/C 100021095|9-T/C 100021324|61-A/G 100044982|27-T/C 6633176|7-T/C 6650394|45-T/C 6650524|64-C/A   
## 0.004376347 0.000000000 0.009900745 0.000000000 0.004750567 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6650526|41-A/C 6650616|12-C/T 6650617|39-T/G 6650695|29-G/A 6650768|33-C/T 6650776|41-A/G 6650824|6-C/G 6650856|61-G/C 6650931|6-C/T 6650932|50-A/G 6650935|64-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.004157986 0.000000000 0.000000000 0.004301055 0.000000000 0.004192854 0.000000000   
## 6650950|61-A/C 6650971|13-G/A 6651076|54-T/C 6651094|7-C/T 6651112|44-A/C 6651140|51-A/G 6651141|28-C/T 6651166|8-G/A 6651232|36-T/A 6651234|42-A/T 6651248|33-A/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651256|30-A/G 6651296|34-G/A 6651362|29-A/G 6651505|25-A/G 6651536|18-C/T 6651549|18-T/C 6651584|29-A/G 6651585|28-G/A 6651603|27-G/A 6651650|53-C/T 6651682|41-G/A   
## 0.004962748 0.000000000 0.000000000 0.014387734 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004661979 0.000000000   
## 6651722|21-T/C 6651790|34-A/C 6651836|41-C/A 6651920|32-T/A 6651945|47-T/C 6651948|51-G/A 6651949|50-A/C 6651978|13-T/C 6651988|28-A/T 6651995|36-G/C 6651996|46-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004640346 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652021|23-A/T 6652050|59-T/C 6652102|5-C/T 6652139|9-C/G 6652157|32-T/A 6652164|29-T/C 6652198|12-T/A 6652209|23-C/G 6652232|10-G/A 6652236|58-T/C 6652248|19-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004106759 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652256|38-A/G 6652399|58-G/T 6652408|36-G/T 6652455|7-A/G 6652563|7-G/C 6652666|14-C/T 6652708|30-T/C 6652718|43-C/A 6652723|11-A/G 6652744|49-T/G 6652761|57-T/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652809|41-A/G 6652820|37-G/T 6652865|19-C/G 6653005|35-T/C 6653010|64-G/C 6653038|53-G/C 6653130|47-A/T 6653175|37-A/G 6653237|34-C/T 6653376|49-A/C 6653396|18-A/G   
## 0.004395583 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004414989 0.000000000 0.000000000   
## 6653462|51-G/A 6653499|18-A/G 6653523|14-A/C 6653530|62-T/C 6653604|19-T/A 6653643|33-G/C 6653655|16-T/C 6653725|23-C/A 6653838|44-C/T 6653994|51-G/A 6656884|31-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004319634 0.000000000 0.000000000 0.006078971   
## 6656889|19-A/G 6657085|18-T/G 6657130|23-G/T 6657217|6-G/T 6657267|27-G/T 6657331|17-A/G 6657391|26-A/G 6657478|16-A/C 6657485|17-C/T 6657548|20-A/G 6657600|33-G/A   
## 0.004640346 0.005089025 0.008583532 0.000000000 0.004357278 0.000000000 0.007117347 0.000000000 0.007843016 0.000000000 0.004494359   
## 6657637|34-A/C 6657667|22-A/G 6657873|49-G/A 6658002|34-T/C 6658172|30-C/A 6658300|7-T/A 6658375|19-C/G 6658441|13-C/T 6658569|13-G/A 6661094|36-A/G 6661297|9-T/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.008230312 0.000000000 0.004728106 0.004866151 0.006779583 0.000000000 0.000000000   
## 6661311|33-T/C 6661392|20-A/G 6661396|55-T/C 6661401|35-G/A 6661459|27-G/A 6661496|33-C/G 6661598|62-A/G 6661609|59-A/C 6661636|18-T/A 6661653|9-G/A 6661756|25-G/A   
## 0.000000000 0.000000000 0.005970096 0.005730612 0.000000000 0.000000000 0.008403212 0.006269530 0.004264373 0.000000000 0.000000000   
## 6661788|59-G/T 6661804|5-T/A 6661860|33-C/T 6662701|6-A/G 6662705|5-C/G 6662826|20-C/T 6663036|30-T/G 6663052|30-A/G 6663927|13-G/A 6664053|24-C/T 6664315|17-A/G   
## 0.000000000 0.000000000 0.000000000 0.004395583 0.000000000 0.000000000 0.000000000 0.004962748 0.000000000 0.004123694 0.006600588   
## 6664393|35-G/A 100101004|14-G/C 6664748|30-C/A 6665122|15-A/T 6665280|39-G/A 6665349|39-T/A 100109477|21-T/C 6665749|9-T/C 6665804|12-G/A 6665805|15-G/A 6665809|11-A/G   
## 0.005730612 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004414989 0.000000000 0.000000000 0.000000000   
## 6665975|52-G/A 6666169|13-T/A 6666355|23-A/G 100123948|55-T/C 100022390|44-G/A 100023236|15-G/A 100073694|7-G/A 100082381|22-C/A 100098535|7-C/G 100098787|33-A/G 100123797|15-G/T   
## 0.000000000 0.004106759 0.000000000 0.000000000 0.004819249 0.000000000 0.004683815 0.000000000 0.000000000 0.000000000 0.000000000   
## 6632181|18-G/A 6650384|58-A/G 6650392|28-C/A 6650405|15-T/C 6650425|36-A/T 6650440|25-T/C 6650441|46-C/T 6650503|7-C/T 6650511|35-A/T 6650582|52-A/C 6650601|22-C/T   
## 0.013422206 0.004640346 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6650694|13-A/C 6650707|5-A/G 6650750|63-G/A 6650751|7-T/G 6650881|41-T/C 6650887|8-T/G 6650895|17-A/G 6650942|29-A/G 6651068|27-G/A 6651106|54-A/T 6651126|7-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651199|46-C/G 6651277|12-C/T 6651309|58-A/G 6651440|6-A/G 6651559|24-C/T 6651568|46-G/C 6651596|5-C/T 6651608|37-G/A 6651626|23-G/C 6651670|12-A/G 6651678|31-T/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004106759   
## 6651702|11-C/T 6651729|48-A/G 6651775|9-A/G 6651799|50-C/G 6651833|60-C/T 6651834|42-T/G 6651856|61-G/A 6651902|48-A/T 6651916|32-C/T 6651940|40-C/T 6651955|38-C/A   
## 0.000000000 0.004913975 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004210508   
## 6652103|6-G/A 6652221|13-A/G 6652233|30-C/T 6652271|50-T/C 6652312|29-A/G 6652323|41-T/C 6652348|30-G/A 6652387|29-A/C 6652570|42-C/A 6652579|68-G/T 6652611|59-C/A   
## 0.000000000 0.000000000 0.000000000 0.004618913 0.000000000 0.000000000 0.000000000 0.000000000 0.004106759 0.000000000 0.000000000   
## 6652679|46-G/C 6652770|46-T/C 6652916|41-A/G 6652924|5-G/T 6653139|25-C/T 6653290|15-T/C 6653405|19-T/G 6653547|59-T/C 6653608|25-C/G 6653635|5-T/C 6653678|35-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004683815 0.000000000 0.000000000 0.000000000   
## 6653689|26-T/A 6653786|26-A/G 6653788|50-G/A 6653837|14-C/T 6653866|26-A/T 6653923|19-A/T 6653998|66-G/A 6654062|37-C/T 6654076|43-A/C 6656943|6-A/T 6656950|8-C/G   
## 0.005797052 0.000000000 0.004106759 0.015036731 0.000000000 0.004106759 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6657301|15-A/G 6657373|32-C/A 6657396|21-C/T 6657408|41-T/C 6657466|14-C/G 6657470|5-C/T 6657514|43-G/A 6657532|34-T/C 6657551|9-T/C 6657596|44-G/A 6657604|9-T/G   
## 0.000000000 0.004228311 0.005115056 0.000000000 0.000000000 0.013422206 0.000000000 0.005063259 0.004414989 0.004819249 0.000000000   
## 6657613|10-A/C 6657630|52-C/T 6657681|17-C/T 6657715|15-C/T 6657723|9-A/T 6657726|41-A/G 6657729|7-G/A 6657752|22-T/A 6657881|18-C/G 6658064|41-T/A 6658065|28-A/C   
## 0.004228311 0.000000000 0.007843016 0.000000000 0.004106759 0.000000000 0.004683815 0.004123694 0.000000000 0.000000000 0.000000000   
## 6658111|29-A/T 6658148|11-T/C 6658186|19-A/G 6658226|42-C/T 6658296|10-A/T 6658347|20-C/G 6658374|29-C/T 6658438|42-C/G 6658501|21-A/C 6658566|40-C/T 6661096|38-A/G   
## 0.000000000 0.000000000 0.000000000 0.004157986 0.000000000 0.004301055 0.000000000 0.004454321 0.004228311 0.004140769 0.000000000   
## 6661098|8-C/T 6661155|52-A/G 6661165|8-T/C 6661251|38-A/G 6661269|21-G/A 6661341|8-C/T 6661391|21-C/A 6661466|12-C/T 6661555|18-G/C 6661659|40-C/T 6661684|52-G/A   
## 0.000000000 0.004157986 0.004618913 0.004819249 0.000000000 0.004157986 0.000000000 0.006557306 0.000000000 0.000000000 0.000000000   
## 6661698|59-T/A 6661775|7-A/G 6661797|49-G/A 6662590|20-A/G 6662615|6-C/T 6662790|12-G/C 6662818|19-G/A 6662832|11-A/G 6662835|7-G/C 6662944|22-G/C 6662946|24-G/A   
## 0.004434568 0.000000000 0.000000000 0.000000000 0.000000000 0.008403212 0.004866151 0.000000000 0.004889946 0.000000000 0.000000000   
## 6662996|36-G/A 6663047|41-G/A 6663054|17-C/T 6663939|28-A/T 6663975|44-T/C 6663987|39-C/G 6664296|7-C/G 6664312|54-A/T 6664428|37-G/A 100082074|52-T/C 6664722|41-T/G   
## 0.000000000 0.004157986 0.007843016 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.005633758 0.010256138 0.000000000   
## 6665235|64-T/C 6665278|5-A/G 6665282|36-G/A 6665346|17-A/G 6665662|22-T/C 6665663|28-T/A 6665849|25-C/T 6665877|33-T/C 6665879|38-A/T 6666358|65-C/T 100016475|46-G/A   
## 0.000000000 0.000000000 0.009389462 0.000000000 0.004301055 0.004210508 0.006779583 0.004434568 0.004338374 0.000000000 0.000000000   
## 100016905|48-C/A 100018192|15-C/A 100018375|55-C/G 100021981|25-T/A 100045028|11-A/G 100065468|15-G/A 100065569|37-C/A 100073412|16-T/C 100073701|13-G/T 100074011|18-G/C 100082459|38-C/A   
## 0.000000000 0.000000000 0.004210508 0.000000000 0.006042241 0.000000000 0.000000000 0.015266272 0.004192854 0.006005952 0.004210508   
## 100086150|10-G/T 100086229|17-T/C 100086237|9-C/A 100091190|32-A/G 100091207|45-C/G 100091251|13-T/C 100096444|12-A/C 100098472|22-C/G 100103647|6-C/A 100107103|17-C/T 6650387|53-A/G   
## 0.004210508 0.000000000 0.000000000 0.000000000 0.000000000 0.011695502 0.004264373 0.004140769 0.013729321 0.000000000 0.004301055   
## 6650481|61-G/A 6650788|22-T/C 6651332|37-A/C 6651818|50-T/C 6651863|32-C/T 6652372|10-T/C 6652511|31-G/A 6652754|21-A/G 6652755|9-G/A 6653571|19-A/G 6653574|37-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004357278 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653585|24-C/T 6657101|27-G/A 6657124|22-T/C 6657595|21-A/G 6657640|37-T/G 6657747|20-T/A 6657809|8-A/C 6657847|15-A/G 6657859|39-G/C 6657980|25-A/G 6658003|48-T/C   
## 0.000000000 0.000000000 0.004301055 0.004705856 0.000000000 0.005305002 0.004434568 0.000000000 0.004434568 0.014387734 0.000000000   
## 6658141|5-G/C 6658173|38-T/C 6658437|16-G/A 6658509|5-T/C 6658625|7-G/C 6661101|21-T/C 6661509|18-T/G 6661745|36-G/A 6661802|6-G/A 6661814|14-T/G 6662656|29-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004454321 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6662837|7-T/A 6662873|7-G/C 6662947|5-G/A 6663032|15-G/A 6664269|17-T/G 6664285|27-A/C 6664757|14-T/C 6664912|6-T/C 6665124|27-C/T 6665664|30-A/C 6665874|13-A/G   
## 0.000000000 0.000000000 0.008510483 0.008928392 0.010416381 0.000000000 0.000000000 0.011560303 0.006116150 0.004264373 0.004246265   
## 6665876|47-A/G 6666225|7-A/G 100065638|51-G/C 100065980|45-T/C 100073421|25-T/C 100073630|15-C/G 100073757|34-G/C 100073948|30-G/A 100074014|19-T/A 100074068|17-A/G 100082248|28-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004576635 0.004357278 0.000000000 0.000000000   
## 100086042|5-C/T 100093665|8-T/G 100098602|36-T/A 100098836|24-A/C 100102147|13-C/T 100121015|18-T/C 100066223|13-G/A 100106210|14-T/G 6665285|9-C/T 6661710|31-T/C 6653668|61-T/A   
## 0.013422206 0.004264373 0.008298611 0.004357278 0.004866151 0.000000000 0.000000000 0.013604804 0.008810400 0.000000000 0.000000000   
## 100024870|39-A/C 6663929|41-A/C 100019092|30-T/A 6661298|58-T/C 100016534|66-G/A 100023056|37-G/A 100082643|25-G/C 100064775|20-G/A 100023265|24-C/A 6651137|52-T/C 6652727|6-C/A   
## 0.000000000 0.000000000 0.000000000 0.005449551 0.000000000 0.011235596 0.013888210 0.000000000 0.000000000 0.000000000 0.000000000   
## 100021017|32-G/T 100073776|11-G/A 100015600|63-A/T 6665051|27-A/T 100019246|34-T/A 6651056|34-C/T 6661829|9-C/T 6665126|22-A/C 100016268|6-T/C 100020350|21-A/G 100023328|20-T/C   
## 0.004796135 0.000000000 0.000000000 0.000000000 0.000000000 0.004414989 0.000000000 0.009389462 0.011560303 0.004705856 0.004728106   
## 100066210|28-C/T 6661110|21-T/A 100018023|63-A/G 100020236|59-G/A 100021188|32-G/C 100021960|39-C/T 100023459|46-A/G 100017280|64-T/G 100018247|39-T/A 100021898|39-C/T 100022093|45-A/T   
## 0.000000000 0.004282636 0.000000000 0.004395583 0.000000000 0.000000000 0.009090720 0.008546851 0.004434568 0.009950000 0.004246265   
## 100023129|9-T/A 100023441|20-A/G 100065302|16-G/A 100066548|17-C/T 6650550|11-T/G 100016077|58-A/G 100018469|20-T/G 100019543|16-G/T 100020860|10-A/C 100022172|17-T/G 100045257|30-G/T   
## 0.004338374 0.007662722 0.000000000 0.000000000 0.000000000 0.004640346 0.000000000 0.000000000 0.000000000 0.000000000 0.004157986   
## 6650546|47-C/A 6653399|26-T/A 100015390|53-T/G 100017298|53-C/T 100017444|58-C/T 100017989|5-T/C 100018126|55-A/G 100018257|27-G/T 100018350|18-A/T 100020244|19-T/A 100021605|34-G/T   
## 0.000000000 0.000000000 0.004140769 0.004661979 0.000000000 0.000000000 0.000000000 0.000000000 0.004395583 0.000000000 0.004210508   
## 100023076|20-A/T 100023357|49-A/T 6653628|59-A/G 6661821|17-T/A 100015255|25-C/T 100015707|14-A/T 100015710|46-C/T 100016017|19-C/T 100017899|6-A/G 100019473|54-C/T 100020145|63-C/G   
## 0.000000000 0.000000000 0.000000000 0.008968428 0.000000000 0.004228311 0.005390796 0.000000000 0.004395583 0.008583532 0.000000000   
## 100021743|44-C/T 100022776|55-C/A 100023242|39-G/C 100082188|29-T/C 100015628|14-G/A 100020893|36-A/G 100021540|61-G/A 100021665|36-G/A 100022938|66-G/C 100023291|60-T/A 6661242|40-T/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6661353|60-C/T 100016201|10-C/T 100016537|37-T/G 100016842|18-C/T 100016876|65-C/T 100016987|65-G/A 100017504|59-C/A 100019821|57-T/A 100020901|34-T/C 100021671|8-G/A 100021969|10-T/C   
## 0.000000000 0.009661608 0.000000000 0.000000000 0.000000000 0.000000000 0.004157986 0.000000000 0.000000000 0.000000000 0.004357278   
## 100022199|66-G/A 100022545|35-T/C 100022573|13-G/C 100022831|52-G/A 100066558|7-C/T 100016263|30-C/G 100016306|10-A/T 100017198|10-T/A 100017275|13-A/G 100017509|15-C/G 100018032|68-T/C   
## 0.000000000 0.000000000 0.000000000 0.005141354 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004705856   
## 100018336|6-C/T 100018672|56-G/T 100019100|44-G/T 100019286|14-C/G 100019912|15-C/T 100020907|14-C/T 100021161|47-T/A 100021810|7-T/C 100023367|18-C/T 100064740|15-A/T 6653264|41-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6663072|37-T/A 100016098|7-T/C 100016143|59-T/C 100016740|12-A/C 100016777|38-T/C 100018407|47-C/A 100018609|48-C/T 100019034|62-G/A 100019293|6-G/T 100019468|41-G/A 100019644|45-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.008733456   
## 100019745|64-C/T 100021138|40-C/T 100022777|45-C/T 100066874|50-C/A 100091157|27-T/G 6652941|42-T/C 6653902|40-C/T 6664728|12-C/T 100015633|60-A/G 100016193|8-T/A 100017485|19-T/C   
## 0.009008825 0.000000000 0.000000000 0.000000000 0.000000000 0.004264373 0.004140769 0.006557306 0.000000000 0.000000000 0.000000000   
## 100018162|27-C/T 100019061|21-G/C 100019334|15-C/T 100019756|22-T/C 100020056|55-G/T 100020924|20-C/T 100022009|9-G/A 100022323|36-A/G 100022703|5-T/C 100023049|42-G/A 100023218|64-G/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004264373   
## 100023269|66-A/G 100024832|25-T/C 100044738|8-C/T 100065081|38-C/T 100065706|32-G/A 100096952|53-C/A 6651239|56-C/A 6651495|32-A/G 6652638|14-C/A 6653296|13-A/C 6661158|36-C/T   
## 0.004661979 0.000000000 0.004157986 0.000000000 0.004228311 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.006230469   
## 100015381|11-T/A 100015413|40-A/T 100015882|61-G/T 100017512|41-A/C 100018395|5-T/C 100019423|68-C/G 100019434|60-G/T 100019704|32-C/G 100019785|27-T/C 100021066|30-G/A 100021425|47-C/A   
## 0.000000000 0.000000000 0.005089025 0.000000000 0.005602197 0.004192854 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100021475|63-A/T 100021915|65-G/A 100022373|12-A/G 100022606|28-T/C 100022910|49-A/G 100025041|57-G/A 100044554|19-G/A 100064948|49-T/A 100065362|20-C/T 6650752|20-T/A 6652176|15-T/C   
## 0.000000000 0.005089025 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653696|11-C/T 6662909|25-T/C 100015291|39-T/G 100016129|26-G/A 100017225|65-T/C 100017536|38-A/T 100017676|8-G/A 100019216|7-C/G 100019420|52-C/G 100019494|63-G/T 100020318|21-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004157986 0.000000000   
## 100020532|11-T/G 100020604|29-A/G 100020745|51-A/C 100021499|21-G/C 100021838|13-T/A 100021978|37-T/C 100022031|7-T/A 100022223|45-A/G 100023499|68-G/T 100023507|21-G/A 6634782|49-G/A   
## 0.000000000 0.000000000 0.004301055 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004474250   
## 6650656|12-T/G 6652475|14-A/T 6661333|17-C/T 100015448|67-A/T 100015469|19-T/A 100015537|12-C/T 100015992|7-C/A 100016029|18-C/T 100016274|21-C/T 100016854|18-G/T 100017144|48-G/A   
## 0.000000000 0.008438667 0.000000000 0.004376347 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100017489|57-G/A 100017909|16-T/C 100018611|43-C/A 100018927|63-G/C 100019035|27-T/A 100019236|16-C/T 100020671|26-T/C 100021001|60-T/A 100021318|46-C/G 100021549|61-A/C 100021863|20-C/T   
## 0.000000000 0.000000000 0.004962748 0.000000000 0.000000000 0.004842586 0.000000000 0.004157986 0.000000000 0.000000000 0.004319634   
## 100023205|16-G/T 100044711|34-G/A 100064599|63-A/C 100065680|37-G/A 100118396|21-A/G 6651534|52-G/A 6651570|59-C/T 6652200|26-G/A 6652872|49-G/A 6654031|17-C/T 6661376|52-G/A   
## 0.000000000 0.004728106 0.000000000 0.000000000 0.009389462 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.005141354   
## 6662917|14-G/T 6666226|12-T/G 100015950|5-A/G 100016109|31-A/T 100016805|54-A/G 100016861|15-T/C 100017893|45-T/C 100018244|41-A/T 100018636|16-G/A 100018890|25-T/C 100018982|31-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.005730612 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100019094|40-C/T 100019137|21-G/C 100019699|26-G/C 100020118|29-C/T 100020890|29-C/T 100021219|23-C/T 100021521|57-T/G 100022288|6-G/C 100022337|30-A/G 100022554|22-T/C 100023064|19-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.009389462 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004866151   
## 100045690|24-G/A 6650514|37-T/A 6651982|15-T/A 6653247|28-A/C 6653292|47-C/G 6653430|58-A/G 6653481|64-T/C 6653533|6-C/A 6653865|59-A/C 6661831|60-G/A 100015200|15-A/C   
## 0.004474250 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100015297|26-C/T 100015382|10-T/A 100017834|8-C/T 100020258|46-C/T 100021617|53-T/C 100021932|18-G/T 100022038|23-C/A 100022622|15-A/G 100022667|15-C/T 100022800|24-C/A 100022903|55-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004319634 0.000000000 0.000000000 0.000000000 0.000000000   
## 100023130|51-G/C 100023154|5-T/C 100023531|17-A/G 100045599|24-A/G 100065227|31-T/C 100065691|24-C/T 100066039|22-G/A 100066092|14-C/T 100074069|38-T/C 100106301|19-A/G 6650690|47-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.007547062 0.000000000 0.000000000 0.005249307   
## 6651361|32-G/A 6652061|58-G/A 6652327|54-A/T 6653204|40-A/G 6653393|35-C/A 6653673|65-A/G 6653746|33-C/A 6661305|25-C/G 6664067|16-C/A 6664716|12-T/C 100015645|28-C/T   
## 0.004228311 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100016045|44-C/T 100016331|42-T/C 100017699|11-G/A 100018593|39-G/A 100018814|46-A/G 100019003|20-A/T 100019081|63-A/T 100019377|57-G/A 100019413|55-T/G 100019588|52-G/A 100021006|21-C/T   
## 0.000000000 0.000000000 0.004796135 0.000000000 0.004555785 0.000000000 0.000000000 0.000000000 0.004434568 0.000000000 0.000000000   
## 100021094|7-C/G 100022208|18-A/C 100022310|31-G/A 100022384|48-G/A 100022899|42-C/G 100108128|12-A/T 6650846|64-A/G 6650911|65-G/A 6651088|5-A/C 6651399|12-C/A 6652520|9-A/G   
## 0.000000000 0.000000000 0.004301055 0.000000000 0.000000000 0.004376347 0.000000000 0.000000000 0.000000000 0.000000000 0.008474423   
## 6653133|15-G/A 6653564|53-G/A 6653709|31-G/A 6653720|68-C/A 6653797|40-A/T 6653874|10-G/T 6653907|59-A/G 6653965|43-A/G 100065805|29-G/T 6661880|32-C/T 100015400|35-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.005509600 0.000000000 0.005089025 0.008657845 0.006078971   
## 100016174|6-C/A 100016241|19-C/T 100016653|31-G/A 100017080|12-A/T 100017172|64-G/C 100017659|13-G/A 100017936|42-T/C 100018252|52-A/G 100018331|42-G/A 100019441|49-A/T 100020597|8-T/A   
## 0.000000000 0.000000000 0.000000000 0.004376347 0.000000000 0.000000000 0.004264373 0.008298611 0.000000000 0.004264373 0.000000000   
## 100020814|67-G/A 100022284|10-G/A 100022341|63-A/G 100023203|29-C/G 100023334|6-G/T 100023527|5-T/A 100082625|32-A/G 6631600|18-G/A 6634219|54-C/T 6650605|38-G/A 6650666|57-T/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.013422206 0.008583532 0.000000000 0.009132228   
## 6650850|54-G/C 6651176|17-T/A 6651223|56-T/G 6651266|67-C/T 6651497|13-G/A 6651500|53-T/A 6652020|49-C/T 6652396|20-C/T 6652765|20-C/T 6653179|35-C/A 6653588|36-G/A   
## 0.000000000 0.000000000 0.004157986 0.000000000 0.000000000 0.000000000 0.008968428 0.000000000 0.004319634 0.004474250 0.000000000   
## 6653617|17-C/G 6653803|13-C/G 6653921|17-G/A 6654071|34-C/T 6658453|44-C/T 6662623|41-C/T 100015396|38-G/A 100015614|19-G/A 100015961|7-A/G 100016361|49-G/A 100016600|22-G/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.010470914 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100017130|57-T/G 100017328|47-G/A 100018645|27-A/G 100018647|11-T/C 100019579|57-A/G 100019755|66-T/A 100020516|10-T/C 100021870|45-T/C 100022119|34-G/A 100022158|40-C/G 100022170|46-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004357278 0.000000000 0.004728106 0.000000000 0.000000000   
## 100022467|38-A/C 100022708|55-T/C 100023428|39-C/A 100064901|22-G/A 100066583|50-G/C 100082198|48-A/G 100082209|53-T/A 100114666|37-A/T 6650551|48-A/C 6650640|8-G/T 6651037|14-A/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004913975 0.004106759 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651123|16-G/T 6651198|35-C/T 6651548|20-C/G 6652349|48-A/C 6652912|31-C/T 6652960|9-G/T 6653047|24-C/T 6653111|54-G/C 6653182|48-A/G 6653306|31-C/A 6653329|47-T/C   
## 0.000000000 0.007017457 0.004301055 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004106759 0.000000000   
## 6653695|53-T/C 6657908|24-T/C 6658488|17-G/A 6661172|54-T/C 6661256|38-C/G 6665238|10-A/T 100016051|64-C/A 100016065|42-C/A 100016173|67-C/G 100016227|33-T/G 100016734|15-A/G   
## 0.004319634 0.005141354 0.000000000 0.000000000 0.004192854 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100017686|33-G/C 100017703|8-T/C 100017977|13-T/C 100018439|16-T/C 100020203|19-G/A 100021102|63-A/C 100021231|28-T/G 100021723|29-T/G 100022522|40-C/T 100022709|6-G/A 100045624|6-C/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.004866151 0.000000000 0.000000000 0.004338374 0.000000000 0.000000000 0.000000000   
## 6650668|41-T/C 6650746|17-T/C 6650807|17-C/T 6650886|31-G/A 6650934|11-G/A 6651435|37-C/T 6651778|31-G/A 6651783|65-C/T 6652191|59-C/T 6652464|36-A/G 6652873|35-C/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.004796135 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653077|56-T/C 6653537|32-A/G 6653577|27-G/A 6653747|15-A/G 6661083|6-C/T 6661240|52-C/A 6661424|62-T/C 6661830|19-T/C 6665513|19-G/C 6661486|13-G/C 100015240|23-G/A   
## 0.000000000 0.005361892 0.000000000 0.000000000 0.000000000 0.016735210 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100016947|13-A/G 100018671|65-G/A 100019864|8-C/G 100019949|8-C/T 100020694|31-T/C 100022684|13-T/A 100022926|58-G/T 100023200|68-C/T 100044609|42-A/G 100065342|51-C/T 100066803|48-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004106759 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100085950|35-A/G 100108060|20-G/C 6630419|14-G/A 6650581|35-C/G 6650628|40-T/C 6650650|35-G/T 6650684|65-A/T 6650719|47-G/A 6650735|38-G/C 6650879|60-C/T 6651049|16-C/G   
## 0.000000000 0.000000000 0.004866151 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.006153788 0.000000000 0.000000000   
## 6651124|38-C/T 6651144|62-T/C 6651167|41-A/G 6651516|36-T/G 6651679|24-G/A 6651984|7-T/A 6652023|10-G/A 6652091|50-T/A 6652242|32-G/A 6652409|10-T/C 6653236|64-T/C   
## 0.000000000 0.000000000 0.000000000 0.004210508 0.000000000 0.000000000 0.000000000 0.004535124 0.000000000 0.004357278 0.000000000   
## 6653348|13-G/A 6653637|32-G/T 6653657|58-T/C 6653943|15-G/T 6653959|63-A/G 6654028|68-A/G 6654050|51-G/T 6654072|32-C/A 6657061|32-A/G 6661522|65-A/G 6665120|10-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.004750567 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100120328|20-T/C 100120333|61-G/A 100065668|5-T/C 100015835|6-C/T 100016061|39-G/C 100016656|14-T/C 100017602|16-G/A 100019319|48-T/C 100019777|21-G/C 100021190|47-T/C 100022177|66-A/G   
## 0.000000000 0.011172832 0.000000000 0.000000000 0.008849383 0.000000000 0.000000000 0.011235596 0.000000000 0.000000000 0.000000000   
## 100023241|6-T/C 100044452|9-C/G 100065422|7-G/A 100066442|52-G/A 6650473|26-A/G 6650482|38-T/C 6650496|24-C/T 6650610|24-T/A 6650644|49-A/G 6650834|54-C/A 6650842|16-G/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.007117347 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651138|26-A/T 6651261|54-G/A 6651453|19-A/C 6651597|59-A/G 6651744|34-A/T 6651756|62-G/A 6651812|33-C/T 6651980|42-A/G 6652201|21-C/A 6652243|14-C/G 6652864|38-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004282636 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653219|11-G/C 6653248|20-T/C 6653427|25-A/G 6653971|28-A/T 6657006|6-C/A 6657540|27-G/A 6661088|54-C/T 100082471|46-T/C 6661706|26-T/C 6664071|6-G/A 100016295|41-G/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100018466|44-G/A 100020140|32-T/C 100020690|9-T/G 100020765|38-G/C 100021275|46-C/T 100045738|12-T/A 100082496|60-G/T 6650712|28-A/C 6650913|49-A/G 6650972|30-C/T 6651222|59-G/A   
## 0.004819249 0.004192854 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651438|51-T/C 6651492|20-G/A 6651654|52-A/G 6651829|48-G/A 6651860|44-T/G 6651877|63-C/T 6651935|33-C/T 6651974|35-C/T 6651986|27-T/C 6652262|36-T/C 6652560|9-A/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652688|16-G/A 6652875|8-C/G 6653021|18-A/G 6653263|25-G/C 6653294|9-G/A 6653410|59-G/C 6653536|55-G/A 6653603|22-T/C 6653802|50-G/C 6653830|13-C/T 6653963|35-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004301055 0.000000000 0.000000000 0.013985320   
## 6654043|16-A/G 6658028|40-G/C 6661349|14-C/A 6661568|63-A/T 6661747|28-T/C 6663960|60-T/C 6663980|14-A/G 100019622|48-T/A 100019802|12-C/T 100020020|13-G/A 100021576|15-T/C   
## 0.004414989 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.006557306 0.000000000 0.000000000   
## 100022394|27-C/T 100023389|57-T/G 100023502|39-T/A 100073839|28-C/G 6635439|23-T/C 6650563|22-C/T 6650688|61-A/G 6650747|16-A/C 6650772|42-C/A 6650861|34-T/A 6651030|62-A/T   
## 0.000000000 0.000000000 0.004434568 0.004123694 0.008196582 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651225|58-T/C 6651322|19-G/A 6651329|44-C/A 6651331|12-T/A 6651353|65-C/A 6651374|45-A/G 6651589|18-T/A 6651687|45-A/G 6651748|42-G/T 6651933|62-A/G 6652449|21-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652527|63-C/A 6652542|24-G/C 6652684|46-A/G 6652730|63-C/G 6652782|44-C/T 6652925|43-T/C 6653316|17-T/A 6653365|26-A/G 6653370|22-C/T 6653474|66-G/A 6653556|52-A/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004889946 0.000000000 0.000000000 0.004576635 0.000000000 0.000000000   
## 6653733|18-G/T 6653741|19-T/C 6653765|48-T/C 6653879|16-T/C 6654049|52-T/A 6657335|32-G/A 6658312|10-A/G 6661127|7-A/C 6661289|11-T/C 6661380|15-T/G 6661529|31-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004454321 0.000000000   
## 6661563|46-C/A 6661785|56-A/G 6661832|23-C/T 6663079|11-G/A 6665675|20-A/G 6666102|6-C/T 100121706|16-C/T 100015265|55-C/A 100015554|25-A/G 100017634|45-C/T 100018229|31-T/A   
## 0.000000000 0.000000000 0.004246265 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100018597|37-C/G 100018998|48-T/C 100019106|32-T/C 100093589|24-T/C 6632259|35-G/A 6632582|5-C/T 6650532|52-G/A 6650756|47-A/G 6650830|17-G/A 6650851|66-A/T 6650928|5-A/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6650987|34-A/G 6651080|35-C/T 6651107|37-G/A 6651110|32-G/T 6651196|62-C/A 6651288|46-T/C 6651442|63-C/T 6651613|49-C/A 6651658|42-A/T 6651720|6-A/G 6651765|63-C/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651802|34-G/T 6651873|50-T/C 6651874|53-T/A 6651906|20-T/A 6651943|26-G/A 6651957|58-G/A 6652104|41-C/G 6652143|61-T/G 6652149|28-A/G 6652158|57-C/T 6652181|32-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652211|12-C/T 6652240|22-G/A 6652269|40-C/T 6652459|65-C/T 6652473|56-G/T 6652516|46-A/G 6652757|25-T/C 6652797|7-G/T 6652811|14-C/T 6652891|17-T/C 6652914|32-A/G   
## 0.000000000 0.000000000 0.000000000 0.006733930 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652922|32-G/A 6653051|5-G/C 6653071|48-C/T 6653276|22-T/C 6653337|5-T/C 6653343|21-C/G 6653392|28-C/G 6653404|15-T/C 6653456|52-A/G 6653484|18-G/A 6653641|8-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004157986 0.000000000 0.000000000   
## 6653669|32-C/T 6653732|48-A/T 6653735|8-T/G 6653739|44-G/C 6653814|28-G/A 6653826|65-T/G 6653844|35-A/G 6653895|16-A/G 6653898|20-C/A 6653961|15-T/C 6654048|23-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.005730612 0.000000000   
## 6657273|10-C/G 6657733|25-C/T 6657825|20-A/C 6658114|32-C/G 6658233|5-T/G 6658363|20-A/C 6661157|31-A/G 6661223|43-A/T 6661238|20-T/G 6661454|19-A/G 6661478|59-G/T   
## 0.000000000 0.000000000 0.004106759 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6661581|31-C/T 6661584|33-A/T 6661734|17-A/G 6662610|35-C/T 6663909|13-G/T 6664051|46-A/C 6665119|8-A/G 6666170|15-A/C 6666170|17-G/A 6666170|6-G/A 100018529|16-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.008031998   
## 100019109|54-C/T 100020873|6-C/G 100020968|7-A/G 100021983|42-A/C 100022525|11-T/A 100065722|64-T/C 6650393|5-T/C 6650424|56-T/C 6650439|56-G/A 6650466|32-T/C 6650505|17-A/G   
## 0.000000000 0.000000000 0.000000000 0.004123694 0.000000000 0.005063259 0.005602197 0.000000000 0.000000000 0.000000000 0.006600588   
## 6650506|45-A/C 6650533|15-G/T 6650557|47-G/T 6650621|36-G/A 6650631|22-C/T 6650685|22-A/T 6650724|18-T/A 6650838|22-C/T 6650866|40-T/C 6650867|54-T/C 6650893|22-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6650917|35-C/T 6650920|31-G/C 6651018|30-A/C 6651060|22-T/C 6651146|26-G/A 6651378|67-C/T 6651387|24-T/A 6651391|45-G/A 6651444|17-T/C 6651450|54-T/G 6651457|37-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.005141354 0.000000000 0.000000000 0.000000000   
## 6651484|65-A/G 6651503|6-A/G 6651510|59-A/G 6651537|19-A/C 6651552|29-C/T 6651562|32-G/C 6651569|33-T/G 6651580|22-T/A 6651606|13-T/C 6651612|31-C/T 6651615|24-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651705|42-A/G 6651737|5-C/T 6651892|35-T/C 6651930|26-G/C 6651938|17-A/C 6652055|48-A/G 6652132|43-T/C 6652144|17-G/A 6652212|22-A/G 6652231|38-C/A 6652386|55-C/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652398|40-G/A 6652413|28-C/A 6652427|27-T/A 6652438|68-G/A 6652494|24-T/C 6652515|15-A/G 6652518|57-T/C 6652535|53-G/T 6652564|55-A/G 6652619|16-T/C 6652816|67-C/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.009049587 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652945|37-C/A 6653041|46-A/G 6653142|49-C/A 6653144|56-G/T 6653148|46-A/C 6653163|62-T/C 6653369|63-C/T 6653408|40-T/C 6653429|7-A/G 6653439|17-G/C 6653493|47-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.008230312 0.000000000   
## 6653501|7-C/T 6653502|28-G/C 6653504|7-C/G 6653563|7-T/A 6653593|19-T/C 6653740|20-C/T 6653755|14-T/C 6653790|16-T/G 6653834|11-T/C 6653851|28-A/C 6653936|33-A/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004474250 0.000000000 0.000000000   
## 6653989|22-G/A 6654038|30-G/A 6654047|8-G/A 6654066|45-C/G 6657075|25-A/C 6657215|14-A/T 6657652|33-T/C 6658198|15-T/C 6658380|19-G/A 6658597|10-T/C 6661103|59-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004357278 0.000000000   
## 6661108|53-A/G 6661557|11-G/A 6661627|50-T/C 6661879|7-T/C 6662888|24-C/A 6662892|24-C/T 6664359|17-A/T 6664391|17-A/G 6664780|11-C/T 6665039|22-C/G 6666100|22-C/T   
## 0.004301055 0.004796135 0.000000000 0.006514588 0.000000000 0.000000000 0.000000000 0.000000000 0.004750567 0.000000000 0.000000000   
## 6666102|30-T/C 6654102|57-C/A 100016395|29-T/C 100020724|58-C/T 100022521|22-C/T 100022955|34-C/A 100045457|17-G/A 100073683|46-G/A 100093512|17-C/G 100102305|42-T/G 100121708|34-C/G   
## 0.000000000 0.000000000 0.006557306 0.000000000 0.000000000 0.000000000 0.006309085 0.000000000 0.000000000 0.000000000 0.000000000   
## 6650447|47-T/C 6650456|36-A/G 6650499|21-C/T 6650502|55-C/G 6650518|44-C/T 6650566|9-A/G 6650589|18-C/T 6650595|24-C/T 6650602|41-G/A 6650625|38-T/C 6650630|7-C/G   
## 0.006920332 0.000000000 0.000000000 0.000000000 0.010470914 0.000000000 0.000000000 0.004123694 0.004157986 0.000000000 0.000000000   
## 6650642|21-G/A 6650708|55-C/A 6650731|33-G/A 6650777|15-G/C 6650798|22-T/C 6650874|54-T/G 6650892|52-T/C 6650926|30-T/C 6650951|18-A/G 6650983|20-T/G 6651002|11-G/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004597677   
## 6651006|19-G/A 6651015|9-T/A 6651028|11-C/T 6651064|34-C/G 6651075|68-C/T 6651082|17-A/G 6651108|57-A/T 6651169|15-T/C 6651211|35-G/A 6651214|29-G/C 6651218|36-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.005089025   
## 6651236|9-A/C 6651265|9-G/A 6651293|36-A/T 6651299|48-A/G 6651311|22-C/T 6651316|37-T/G 6651339|7-G/A 6651360|17-C/A 6651411|25-A/G 6651455|40-A/G 6651480|6-A/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004494359 0.000000000   
## 6651535|17-G/C 6651553|40-C/T 6651633|11-G/C 6651642|43-A/C 6651652|13-T/A 6651653|46-A/T 6651666|39-C/A 6651668|54-T/C 6651692|43-T/C 6651779|57-A/G 6651819|25-G/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651894|54-A/G 6651913|20-A/G 6651928|6-C/T 6651950|10-C/T 6651962|57-C/T 6651979|59-G/T 6652004|68-A/T 6652041|41-T/C 6652076|24-T/G 6652082|47-A/G 6652128|6-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.005089025 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652178|42-C/T 6652228|29-C/T 6652229|59-T/C 6652252|11-C/T 6652279|53-A/T 6652302|43-G/A 6652328|42-T/G 6652402|15-A/G 6652405|52-T/C 6652430|41-A/T 6652442|59-A/G   
## 0.024687500 0.000000000 0.004683815 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652444|19-A/C 6652476|42-G/A 6652478|11-G/T 6652495|5-G/A 6652517|8-A/G 6652531|35-T/C 6652633|57-C/A 6652685|43-G/A 6652711|52-C/T 6652775|11-G/A 6652812|20-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.005899653 0.000000000 0.004728106   
## 6652825|12-T/C 6652846|44-A/G 6652876|5-G/A 6652899|47-T/G 6652923|25-T/A 6652938|38-G/A 6652954|34-G/A 6652977|48-A/C 6653056|35-C/G 6653113|5-G/A 6653221|12-A/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653285|45-G/C 6653299|45-T/C 6653300|45-T/C 6653301|16-C/T 6653302|10-C/T 6653314|19-C/A 6653350|22-C/T 6653402|19-G/T 6653488|18-C/T 6653495|56-A/T 6653519|51-A/G   
## 0.000000000 0.008733456 0.000000000 0.004842586 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.007781982 0.000000000   
## 6653534|60-C/T 6653576|42-C/A 6653592|23-G/A 6653671|64-C/A 6653680|17-G/A 6653685|30-G/A 6653711|10-T/A 6653718|49-A/C 6653737|54-G/A 6653753|52-T/C 6653780|36-C/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653880|38-A/G 6653900|13-T/A 6653944|44-G/A 6653977|55-A/G 6653997|67-G/A 6654006|12-T/C 6654014|37-G/A 6654041|11-A/G 6654055|10-A/G 6654086|14-G/A 6654088|35-T/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004866151 0.000000000   
## 6656956|22-A/G 6657047|46-C/T 6657188|43-C/G 6657327|42-G/C 6657536|7-A/G 6657721|47-G/C 6657808|17-T/A 6657912|46-T/G 6658001|44-A/T 6658011|9-C/A 6658107|14-C/G   
## 0.000000000 0.000000000 0.000000000 0.004140769 0.005063259 0.000000000 0.000000000 0.000000000 0.004123694 0.000000000 0.010049995   
## 6658156|5-G/T 6658199|15-T/C 6658229|33-G/T 6658234|5-T/G 6658254|27-T/C 6658284|37-G/A 6658292|22-T/C 6658327|20-A/G 6658407|20-G/A 6658414|11-G/A 6658562|19-G/T   
## 0.000000000 0.000000000 0.004157986 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6658586|32-A/C 6658643|11-C/T 6658671|14-C/T 6661089|25-T/C 6661118|54-A/G 6661135|53-G/A 6661189|30-T/C 6661215|39-T/G 6661222|65-T/A 6661248|53-C/G 6661249|13-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6661292|48-T/C 6661362|55-T/C 6661374|18-A/G 6661410|32-G/T 6661422|22-C/T 6661440|5-C/T 6661444|36-A/G 6661467|8-T/G 6661491|67-G/C 6661502|37-A/T 6661590|51-A/C   
## 0.000000000 0.000000000 0.005970096 0.000000000 0.004576635 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6661599|28-A/G 6661630|50-G/A 6661635|15-T/C 6661640|37-T/A 6661680|9-C/G 6661723|32-C/T 6661736|14-G/C 6661758|19-G/A 6661804|60-A/G 6661810|40-A/C 6661811|44-T/A   
## 0.005194770 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004157986 0.000000000   
## 6661811|67-G/A 6661833|57-C/T 6661841|11-G/A 6661855|40-T/C 6661864|19-T/A 6661882|41-A/G 6661883|8-G/A 6661885|20-A/T 6662600|6-A/G 6662722|30-G/C 6662742|10-A/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004395583 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6662844|10-A/C 6662885|9-G/T 6662886|27-C/T 6662910|18-C/G 6662926|18-T/C 6663096|18-A/T 6663907|45-A/G 6663910|8-C/T 6663965|32-C/T 6663983|49-G/C 6663986|51-T/A   
## 0.004228311 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6664025|20-C/T 6664038|20-G/A 6664063|32-G/A 6664295|6-G/A 6664431|31-A/G 6664713|15-G/A 6665122|10-A/C 6665220|17-C/T 6665221|28-T/C 100109498|18-A/G 100109477|15-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100109477|9-A/C 6665568|14-T/C 6665571|10-T/C 6665805|26-C/G 6666099|20-C/T 6666516|59-G/A 100124929|12-A/G 100016665|5-A/G 100016860|40-G/A 100019055|15-C/A 100019486|67-T/C   
## 0.000000000 0.000000000 0.004357278 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100020835|48-C/G 100044994|33-G/A 100064828|9-G/T 100064931|32-G/A 100065941|26-T/C 100073522|28-A/G 100081694|12-C/T 100093694|8-T/G 100114698|38-A/T 100121709|38-A/G 6631771|63-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6643511|8-T/C 6650389|25-A/G 6650408|50-C/T 6650436|33-G/A 6650531|50-G/A 6650573|57-G/A 6650637|15-T/C 6650654|52-A/C 6650710|46-T/G 6650720|22-A/T 6650779|16-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004175347 0.000000000   
## 6650822|27-G/A 6650832|27-T/C 6650901|27-G/A 6650902|39-G/T 6650937|10-A/G 6650960|65-A/G 6651019|62-A/G 6651142|65-T/C 6651204|9-G/A 6651227|47-C/T 6651280|20-T/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651418|16-G/T 6651508|15-G/T 6651574|38-G/T 6651577|11-A/G 6651598|31-T/C 6651697|15-C/T 6651725|7-T/C 6651760|20-A/T 6651762|50-A/G 6651788|15-A/G 6651792|9-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.006514588 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651793|43-T/C 6651862|51-C/T 6651882|23-G/A 6651884|35-A/C 6651903|16-A/G 6651924|35-T/C 6651929|41-G/T 6651993|33-G/A 6651998|13-G/T 6652029|51-G/A 6652043|18-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.004414989 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652138|37-A/G 6652167|65-C/G 6652206|59-C/A 6652238|26-C/T 6652289|28-A/T 6652298|67-A/G 6652307|44-C/A 6652334|58-A/T 6652336|15-C/A 6652366|34-C/A 6652425|29-A/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004705856 0.000000000 0.000000000   
## 6652524|49-C/T 6652588|40-G/T 6652613|43-C/G 6652632|21-A/G 6652778|29-G/A 6652802|13-A/T 6652819|42-A/C 6652826|14-T/C 6653026|52-G/C 6653068|62-G/C 6653116|22-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004454321 0.000000000 0.000000000   
## 6653218|66-C/G 6653354|23-C/A 6653444|44-G/T 6653464|25-A/G 6653494|25-G/A 6653568|59-G/C 6653672|51-G/T 6653690|24-G/C 6653700|47-T/C 6653713|41-T/C 6653736|20-T/A   
## 0.000000000 0.004319634 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653875|30-C/T 6653968|66-C/G 6653974|33-T/A 6653991|65-G/T 6657021|28-G/A 6657102|16-C/T 6657128|18-G/A 6657132|5-A/C 6657178|34-G/A 6657193|53-C/T 6657201|19-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.007117347 0.004728106 0.000000000 0.000000000   
## 6657204|30-A/C 6657318|9-G/A 6657354|8-C/T 6657383|35-G/T 6657458|5-C/G 6657566|43-G/A 6657607|43-G/A 6657631|9-G/A 6657655|8-T/C 6657745|21-C/A 6657813|21-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6657950|26-T/C 6658016|18-C/G 6658025|28-G/A 6658074|26-C/A 6658086|13-T/C 6658116|19-T/G 6658140|8-T/C 6658176|39-C/T 6658256|13-G/C 6658270|50-G/T 6658309|15-G/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6658382|35-G/A 6658386|9-G/T 6658396|48-A/T 6658416|19-T/C 6658448|12-A/G 6658539|20-A/G 6658593|6-T/C 6658605|5-T/A 6658616|40-G/T 6658646|18-C/A 6661133|7-C/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6661179|34-A/T 6661195|26-A/G 6661294|16-G/T 6661342|14-G/C 6661347|62-A/G 6661359|29-T/C 6661360|12-T/C 6661375|25-G/A 6661390|29-G/A 6661411|10-A/T 6661415|7-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6661429|43-A/G 6661461|24-A/G 6661525|21-A/G 6661561|6-A/G 6661611|46-A/C 6661622|45-G/T 100097038|21-G/A 6661741|18-C/T 6661767|9-T/C 6661768|5-T/C 6661780|15-A/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.005012500 0.000000000 0.026196257 0.000000000 0.000000000 0.000000000 0.000000000   
## 6661784|18-A/G 6661801|15-C/T 6662572|23-G/A 6662577|20-C/A 6662598|13-T/G 6662619|18-C/T 6662621|6-C/T 6662686|27-C/T 6662729|33-C/T 6662743|22-C/T 6662903|44-T/C   
## 0.005970096 0.000000000 0.000000000 0.000000000 0.000000000 0.013071330 0.000000000 0.006116150 0.004157986 0.000000000 0.000000000   
## 6664062|57-T/C 6664077|54-G/T 6664087|35-A/T 6664282|11-G/A 6664352|17-T/G 6664715|34-G/A 6665049|6-C/T 6665121|17-A/G 6665508|35-A/G 6665515|61-A/G 6665540|8-G/A   
## 0.007168366 0.000000000 0.000000000 0.004796135 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004514650 0.000000000   
## 6665849|33-C/T 6666095|7-A/G 6666174|7-C/T 6666520|31-G/A 100015941|21-T/C 100016251|35-G/A 100016732|29-G/A 100045346|24-C/T 100045582|33-G/A 100045632|7-G/A 100064767|54-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004123694 0.000000000 0.004683815 0.000000000   
## 100064928|53-G/A 100065927|39-C/T 100074119|31-T/C 100082416|45-C/A 100085968|36-G/A 100091287|38-A/T 100093420|8-G/A 100104859|48-T/C 100121707|24-C/G 6650478|7-C/T 6650577|59-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6650765|26-G/A 6651007|49-A/G 6651119|61-A/G 6651133|33-C/T 6651237|16-C/T 6651693|21-C/T 6651704|49-G/T 6651952|32-C/T 6652155|42-G/C 6652275|21-C/T 6652283|16-C/T   
## 0.000000000 0.000000000 0.004514650 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652292|40-G/A 6652303|27-C/T 6652553|13-A/G 6652626|33-A/G 6652630|7-G/C 6652656|7-T/C 6652758|10-G/A 6653200|23-C/A 6653877|30-A/G 6653984|20-G/T 6656875|8-A/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004192854 0.000000000   
## 6656924|30-G/C 6656996|5-A/T 6657117|41-C/T 6657154|6-G/A 6657156|29-A/C 6657483|18-T/G 6657561|6-C/T 6657735|31-T/A 6657741|7-G/A 6657814|9-A/G 6657850|12-C/G   
## 0.000000000 0.000000000 0.000000000 0.007721892 0.000000000 0.000000000 0.000000000 0.000000000 0.004683815 0.004246265 0.000000000   
## 6657942|13-C/G 6657997|45-C/T 6658062|30-T/G 6658550|29-A/G 6658582|12-C/G 6658632|5-T/C 6661273|54-T/A 6661308|52-T/C 6661408|14-C/T 6661538|9-G/A 6661791|66-G/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.010256138 0.000000000 0.000000000 0.000000000   
## 6661818|22-G/A 6662638|5-A/G 6662824|38-C/T 6662887|8-G/C 6663037|41-C/G 6664882|7-A/C 6665050|32-A/T 6665295|5-T/C 100019888|47-T/C 100045453|46-G/A 100045704|9-A/G   
## 0.000000000 0.000000000 0.004264373 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100064586|17-G/C 100066059|7-C/T 100074054|47-T/A 100082120|8-T/C 100086057|9-A/G 100086096|24-G/T 100093333|41-G/C 100098548|28-A/G 100104693|28-T/A 100104890|20-C/A 100106918|8-T/C   
## 0.000000000 0.000000000 0.010581711 0.000000000 0.004246265 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100086278|15-A/T 100098561|7-T/A 100112393|13-T/C 6665409|19-C/A 100106209|11-T/A 6652014|36-G/A 100016895|29-G/A 6661843|44-G/A 6652389|64-T/C 6661649|50-A/C 6657666|21-A/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.012473521 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.009523591   
## 6661268|63-T/G 100023082|28-G/T 100017188|42-C/G 6661288|45-T/C 100021319|48-T/G 100045470|27-C/T 6661435|57-G/T 100065514|5-T/C 6630387|13-C/T 100065726|10-C/T 6653782|5-C/T   
## 0.000000000 0.000000000 0.004454321 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.006733930   
## 100021899|36-A/T 100066454|16-G/T 100065272|30-T/C 100066129|22-G/A 6653374|61-T/C 6664733|54-T/A 100022349|67-T/A 100015942|46-A/C 100016792|52-G/C 100018206|33-G/A 100064825|31-G/T   
## 0.000000000 0.000000000 0.032249395 0.006557306 0.000000000 0.012345203 0.000000000 0.000000000 0.004454321 0.000000000 0.000000000   
## 100066202|30-T/C 100073401|49-C/A 6633382|47-T/C 100021640|61-G/C 100022856|29-A/C 100023978|37-A/T 6652591|64-T/C 6661464|50-T/A 100015796|50-T/A 100016769|29-T/C 100019373|29-G/A   
## 0.000000000 0.000000000 0.006920332 0.000000000 0.000000000 0.004535124 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100023055|35-A/T 100097014|5-T/G 6661225|60-T/C 6661548|33-A/T 100017088|61-C/T 100023509|31-T/C 100015492|43-G/A 100018948|22-T/C 100020108|6-G/A 100020234|29-G/C 100021104|60-G/C   
## 0.000000000 0.004434568 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.009090720 0.004454321   
## 100022438|10-G/T 100065777|27-G/T 6634350|32-G/T 100015248|33-A/G 100016465|17-G/A 100016470|38-G/A 100017055|22-C/A 100020326|38-A/G 100020580|5-T/G 100020916|54-A/T 100022162|26-G/C   
## 0.004210508 0.000000000 0.004796135 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100022968|12-G/A 100023214|50-T/C 100023558|48-A/G 100065527|10-A/G 100108046|10-C/G 6652805|19-C/T 6653649|51-C/A 100016806|34-T/C 100016973|34-G/A 100017185|9-C/T 100019652|10-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.008810400 0.000000000   
## 100020977|12-T/C 100021791|20-G/A 100064895|33-A/T 100064988|25-T/C 6653972|28-A/G 6658602|21-G/C 100015510|28-A/T 100016175|6-T/C 100016191|14-G/A 100018397|31-G/T 100019542|48-A/C   
## 0.004494359 0.005037751 0.000000000 0.000000000 0.005194770 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100020295|21-C/T 100020374|38-T/C 100021678|59-A/G 100066638|43-T/G 6653330|11-G/A 100015953|68-T/C 100016139|30-C/T 100016326|61-C/T 100016487|19-G/T 100016577|32-A/G 100016760|26-T/A   
## 0.000000000 0.000000000 0.000000000 0.004228311 0.000000000 0.000000000 0.000000000 0.005141354 0.000000000 0.005361892 0.000000000   
## 100016954|51-G/A 100017145|65-A/G 100017289|41-G/C 100017927|57-A/G 100019119|41-A/C 100019129|28-A/G 100020392|13-C/T 100021327|23-G/A 100022094|8-A/T 100023476|68-C/T 100065094|17-G/A   
## 0.000000000 0.000000000 0.000000000 0.007604452 0.009049587 0.000000000 0.000000000 0.000000000 0.000000000 0.004494359 0.000000000   
## 100082310|17-G/A 100091292|53-C/T 6633859|61-C/G 6651602|9-A/G 6653320|67-A/G 100015805|62-G/A 100016005|36-T/C 100017432|35-A/G 100019685|30-C/T 100020281|34-T/C 100020816|17-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.005249307 0.000000000 0.012902682 0.000000000 0.000000000 0.010100750 0.000000000   
## 100020920|57-A/G 100021124|31-G/T 100021513|63-A/G 100021836|10-G/A 100022515|43-C/T 100023216|57-G/T 100023496|7-C/T 100023681|60-G/A 100065088|33-A/T 100065666|45-T/C 100066471|53-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.008733456 0.000000000   
## 6652033|13-A/C 6661430|6-G/T 6661570|26-C/T 6661730|63-G/C 100016186|12-C/A 100016774|44-T/A 100017111|47-A/G 100017208|21-G/A 100017523|52-T/C 100017874|53-A/G 100018144|64-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.010256138 0.008583532 0.004301055   
## 100018225|53-A/G 100018942|41-G/T 100019677|5-A/G 100022269|27-A/T 100066082|15-C/A 100066253|43-C/A 100066444|14-G/A 100114672|22-C/T 6651282|60-A/T 6651428|21-T/C 6652874|33-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100015264|22-A/T 100015814|11-C/G 100015850|40-T/C 100016120|45-G/A 100017115|64-C/T 100017958|17-G/A 100018308|19-A/G 100018683|52-C/T 100019218|10-T/C 100019222|23-G/C 100020050|41-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100020331|13-C/T 100020335|6-A/C 100021226|41-T/G 100021502|29-G/A 100021862|6-G/A 100021994|17-A/G 100022357|61-G/A 100022781|47-C/T 100023182|23-A/G 100023311|52-A/T 100023534|68-C/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.007843016 0.008849383 0.000000000 0.000000000   
## 6653500|12-A/G 6661123|54-G/C 6665401|24-G/T 100015499|31-G/A 100015907|12-G/C 100016631|34-T/C 100019009|45-G/A 100019123|42-G/A 100019424|28-A/G 100019445|67-A/C 100019654|17-C/T   
## 0.000000000 0.000000000 0.014813990 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100020359|57-A/G 100020876|63-C/T 100022261|20-C/T 100022625|36-A/G 100023251|49-T/A 100090852|5-C/T 6653799|6-G/A 6661647|17-A/C 100015702|42-C/T 100015896|29-T/C 100016097|8-A/G   
## 0.007604452 0.004338374 0.000000000 0.000000000 0.000000000 0.013422206 0.000000000 0.000000000 0.004157986 0.000000000 0.000000000   
## 100016416|52-T/A 100016914|9-T/G 100017736|15-G/C 100018093|40-G/C 100018383|12-A/G 100018805|31-A/G 100018914|23-G/A 100019000|63-T/G 100019412|18-C/T 100019519|62-G/C 100019671|36-A/G   
## 0.000000000 0.004157986 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.005089025   
## 100019895|42-T/C 100020000|31-A/G 100020210|64-C/T 100021670|11-G/A 100021761|67-C/T 100022043|14-T/A 100022106|27-G/A 100022213|48-C/T 100022452|60-C/T 100022997|31-G/A 100065791|46-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004661979 0.000000000 0.000000000 0.000000000   
## 100066265|30-T/C 100066487|11-G/A 100101063|5-T/C 6634524|57-T/A 6652255|33-A/G 6661618|12-C/T 100015912|66-G/T 100015914|56-A/G 100016606|50-T/C 100016946|25-C/A 100017520|47-T/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004535124 0.000000000 0.000000000 0.000000000   
## 100018722|5-C/A 100019526|9-G/A 100019891|44-C/T 100020909|55-A/T 100020985|50-A/G 100021139|33-G/C 100021214|56-G/A 100021255|31-C/T 100021313|59-A/C 100022420|43-T/C 100022458|29-G/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004395583 0.000000000 0.000000000 0.000000000   
## 100022624|40-G/C 100022691|40-C/T 100023114|8-T/A 100023164|37-T/C 100023165|10-C/T 100023475|55-A/G 100024879|34-A/G 6650963|31-A/G 6650995|35-T/C 100015203|28-T/C 100015415|9-G/T   
## 0.000000000 0.000000000 0.004192854 0.000000000 0.000000000 0.000000000 0.004555785 0.000000000 0.000000000 0.000000000 0.000000000   
## 100015496|59-G/T 100015847|60-G/C 100015873|28-A/C 100015977|34-A/G 100016012|21-A/C 100016160|65-G/A 100016617|11-C/G 100016919|15-T/A 100016933|17-A/C 100017138|9-G/C 100017592|13-G/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004454321 0.004414989 0.000000000   
## 100017929|18-A/C 100018201|42-T/G 100018285|15-G/A 100018596|39-G/A 100018944|19-C/A 100019340|48-A/G 100019515|10-G/A 100019761|17-G/A 100019817|32-A/G 100020455|16-G/A 100020993|47-T/C   
## 0.004773242 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.005361892 0.000000000 0.000000000   
## 100022157|60-A/G 100023102|7-C/T 100045024|30-A/C 100065312|53-G/T 100066063|67-C/T 100066423|46-G/A 6634305|33-C/G 6651275|16-A/C 6652010|36-G/A 6661116|34-A/C 6664719|65-C/G   
## 0.008657845 0.000000000 0.000000000 0.000000000 0.005970096 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100015734|66-G/C 100015877|41-T/C 100016028|28-G/T 100016794|51-C/G 100016930|62-C/T 100016976|17-C/G 100017073|58-C/A 100017352|5-T/A 100017471|13-G/C 100017594|43-T/C 100017596|13-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.004106759 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100018057|54-A/T 100018384|20-C/A 100018436|8-C/T 100018459|29-C/T 100018601|57-C/A 100018886|5-G/C 100019401|38-C/A 100019538|40-A/G 100019682|13-G/C 100019773|68-G/T 100019884|7-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100020084|63-C/A 100020358|5-G/C 100020410|17-G/T 100020846|22-A/G 100021982|22-G/C 100022352|35-G/C 100023106|5-T/A 100023435|47-T/A 100023548|13-A/T 100064672|55-C/T 100091227|51-T/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.007781982 0.000000000 0.000000000 0.000000000 0.000000000   
## 100121014|17-C/T 6653240|15-A/T 100015605|26-A/G 100015623|29-T/A 100015712|9-A/T 100015915|16-G/C 100016293|25-T/A 100016319|36-T/C 100016723|21-C/T 100017173|15-T/A 100017697|22-G/A   
## 0.015624031 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.012902682 0.000000000 0.000000000 0.006557306   
## 100018492|22-T/C 100018548|16-C/T 100018796|68-C/T 100018865|11-C/A 100018936|13-C/T 100019019|18-A/G 100019086|21-G/A 100019131|12-T/C 100019765|29-C/T 100019951|22-C/T 100020346|50-T/C   
## 0.004301055 0.000000000 0.008968428 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004576635 0.000000000   
## 100021253|53-T/C 100021441|53-T/C 100021634|50-A/C 100021664|5-T/C 100021900|25-G/C 100021918|16-G/C 100021944|59-G/C 100022064|57-C/T 100022439|9-G/A 100022958|60-G/A 100023335|10-T/C   
## 0.000000000 0.004319634 0.000000000 0.005602197 0.000000000 0.000000000 0.004705856 0.000000000 0.004210508 0.004338374 0.000000000   
## 100066167|17-A/C 6652225|65-T/C 6653132|37-C/T 6653692|35-T/A 6661742|53-G/T 6663972|39-G/A 6664076|30-T/C 100015254|42-A/G 100015421|66-C/T 100017443|50-T/A 100018227|9-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.009049587 0.000000000 0.000000000 0.000000000   
## 100018684|33-T/C 100019036|18-A/C 100019346|5-C/T 100019642|57-C/T 100020216|59-T/G 100020462|12-G/T 100020825|41-T/A 100021447|5-C/T 100021487|10-A/G 100022350|27-C/T 100022637|44-C/T   
## 0.004434568 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100022974|38-G/A 100023108|17-G/A 100023245|57-A/T 100023390|19-G/A 100023533|34-T/C 100064760|51-A/T 100064984|7-A/T 6635254|28-C/T 6650882|51-G/T 6651794|65-C/A 6652456|5-G/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.005063259 0.000000000 0.000000000 0.000000000 0.004301055 0.000000000 0.000000000   
## 6652956|28-T/C 6653074|11-G/T 6653246|55-C/T 6653257|11-T/C 6653558|37-T/C 6653841|24-C/G 6661717|50-A/G 100015306|34-G/T 100017026|18-T/C 100017183|63-A/C 100017740|39-T/C   
## 0.000000000 0.004597677 0.000000000 0.000000000 0.000000000 0.004319634 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100018186|14-G/A 100018502|54-A/C 100019407|9-A/G 100019597|22-G/T 100019799|11-C/T 100020064|5-A/G 100020467|61-C/G 100021342|19-T/G 100021726|23-G/T 100021853|38-A/G 100022073|47-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004819249 0.000000000   
## 100022174|61-T/C 100022237|64-T/G 100022450|28-C/T 100023247|11-G/A 100024830|48-A/T 100065475|5-A/C 100065743|19-C/T 6651542|50-G/C 6652006|5-C/A 6652136|34-G/A 6652490|28-C/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653164|33-G/T 6661138|57-G/A 6661286|13-C/T 100015294|55-T/C 100015312|26-G/C 100015717|58-T/C 100016035|58-C/T 100017166|55-C/G 100017336|19-C/T 100017436|6-T/A 100018333|8-T/C   
## 0.000000000 0.026139204 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004210508 0.000000000 0.000000000 0.000000000   
## 100018623|26-G/A 100018949|25-G/A 100019179|31-T/A 100019378|46-T/C 100019715|11-C/T 100020007|20-C/A 100020186|42-A/T 100020325|12-G/A 100020984|22-A/T 100021063|19-C/T 100021116|47-G/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100021276|48-T/C 100021323|21-A/G 100023352|36-C/T 100023524|20-T/A 100064607|25-T/A 100064666|61-G/A 100066449|6-A/G 100104023|51-G/T 6651556|12-T/C 6651732|66-T/C 6652161|13-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.015266272 0.000000000 0.000000000 0.000000000 0.000000000 0.011695502 0.000000000   
## 6653042|9-A/T 6661220|17-G/T 100015287|46-T/C 100015379|18-A/G 100015449|18-T/C 100016230|18-C/G 100016245|55-T/C 100016437|62-T/C 100017249|15-G/A 100018724|8-T/C 100018729|20-A/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004474250 0.000000000 0.000000000   
## 100018771|32-C/T 100019308|38-T/C 100019625|33-C/T 100019716|25-C/T 100020654|61-G/A 100021098|19-A/T 100021170|5-G/C 100021240|55-G/C 100021330|41-C/T 100021985|6-G/C 100022470|47-C/T   
## 0.000000000 0.000000000 0.004157986 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100022786|9-C/T 100022992|63-G/C 100023087|65-T/C 100023089|12-A/T 100065113|20-C/T 100065660|34-T/C 100082081|14-T/C 6650676|61-A/G 6650683|35-G/A 6650847|62-G/T 6651376|46-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.004319634 0.000000000 0.000000000 0.004514650 0.000000000 0.000000000 0.000000000   
## 6651698|17-A/G 6652341|11-G/A 6652418|6-T/A 6652657|13-T/C 6653549|37-G/A 6653926|47-C/T 6661137|45-A/G 6661795|29-A/G 6664067|38-C/T 100015300|34-C/G 100015553|64-G/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100015662|64-G/A 100015747|67-T/C 100016172|45-C/A 100016321|25-T/C 100016379|15-C/T 100016524|6-T/G 100016678|13-G/A 100017389|39-C/A 100017447|10-T/G 100018638|48-T/C 100019669|13-T/C   
## 0.000000000 0.000000000 0.000000000 0.006116150 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.005633758 0.000000000   
## 100021395|62-G/A 100021505|40-T/C 100021653|13-T/G 100021672|31-T/C 100022109|34-G/A 100022563|58-C/T 100022828|22-T/C 100023017|29-A/T 100066440|62-C/G 100066652|41-G/A 100096906|18-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.006230469 0.000000000 0.000000000 0.000000000 0.004157986 0.000000000   
## 6630114|53-A/C 6650736|10-G/T 6651252|16-C/T 6653034|28-A/G 6653152|22-C/A 6653197|10-T/C 6653543|62-T/A 6653729|12-T/C 6658435|49-C/A 6661280|18-T/C 6661782|19-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.005540123 0.000000000   
## 100015470|41-C/T 100016237|28-C/A 100016452|17-G/A 100016620|23-T/C 100016680|26-G/A 100016867|47-C/T 100016970|8-C/T 100018066|41-A/G 100018458|45-C/T 100018598|40-C/T 100019260|10-C/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100019313|6-T/C 100020459|17-G/C 100022183|15-A/C 100022219|59-T/A 100022324|20-A/T 100022476|18-T/C 100022820|44-T/C 100065830|50-G/A 100073534|35-A/T 100108129|53-C/A 6631518|25-C/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6650419|25-C/G 6650596|64-G/T 6650922|18-T/C 6650997|7-A/G 6651758|26-G/A 6652094|60-T/C 6652276|10-G/A 6652446|14-G/A 6652850|15-T/C 6652911|22-A/G 6653387|31-C/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.008928392 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653442|7-A/G 6653457|43-C/T 6653666|33-A/G 6653913|54-A/G 6661714|10-A/T 6661819|18-T/C 6665305|19-G/A 100015271|40-A/G 100015651|23-C/T 100016940|6-T/G 100017024|68-G/A   
## 0.005063259 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100018261|61-T/C 100018474|24-G/A 100018954|18-A/G 100019606|34-G/A 100019837|9-G/A 100020506|37-T/A 100020651|11-C/G 100021368|14-C/T 100021399|20-A/C 100021433|22-A/C 100021823|21-T/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.007547062 0.000000000 0.000000000 0.000000000   
## 100022483|30-T/A 100022774|66-T/G 100023022|43-C/T 100023206|43-A/G 100023292|16-A/G 100023396|25-C/T 100024289|11-T/C 100045482|25-C/T 100065022|34-A/G 100065562|43-G/A 100065795|26-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004282636 0.000000000   
## 100066292|25-T/C 100073974|41-A/C 100082647|16-C/A 6650814|43-G/C 6650908|37-A/C 6651113|11-C/G 6651346|28-A/T 6651709|24-A/G 6652049|29-T/C 6652500|45-G/T 6652777|22-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.006557306 0.000000000 0.000000000   
## 6653333|13-T/C 6653390|14-T/G 6653414|31-T/C 6653728|20-G/T 6654032|23-T/G 6654037|57-A/G 6657904|10-G/C 6661607|55-C/A 6661700|18-G/A 6662767|16-T/C 6664074|40-T/G   
## 0.000000000 0.000000000 0.000000000 0.004192854 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6664074|44-G/C 6664735|26-T/G 6665238|34-T/C 100124938|57-G/A 100015346|10-T/A 100016456|52-G/C 100016501|31-A/T 100017004|22-C/T 100017283|39-T/G 100017322|41-G/A 100017407|26-G/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100017421|12-A/G 100018243|9-T/C 100018879|32-C/A 100019658|67-A/G 100020347|21-G/C 100021567|15-A/G 100021727|64-T/A 100023434|25-T/C 100066346|64-T/C 100066369|51-A/G 100066626|37-G/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6631525|11-C/T 6650677|49-C/T 6650829|66-C/T 6650865|22-G/T 6651274|64-A/G 6651327|26-G/A 6651363|38-T/A 6651684|66-A/G 6652046|31-A/G 6652267|48-T/C 6652284|17-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652529|31-T/C 6652900|9-A/G 6653610|43-G/T 6653665|46-C/T 6653751|12-A/T 6653876|40-A/G 6654005|53-G/A 6654018|46-G/A 6661150|29-C/G 6661536|5-G/A 6664750|33-C/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100103994|12-C/T 100103994|20-G/A 100104021|9-A/G 100015729|18-T/G 100015952|21-T/A 100016302|16-G/A 100016507|10-G/T 100016962|46-C/T 100017543|65-T/C 100018176|18-T/A 100018259|44-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.004282636 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100019881|23-C/A 100019923|11-A/T 100020081|6-T/A 100020349|28-G/T 100022424|20-G/A 100023400|43-G/T 100044682|9-A/G 100044750|30-A/G 100065250|9-G/T 100065326|31-T/A 100065589|31-A/G   
## 0.004319634 0.000000000 0.000000000 0.000000000 0.005037751 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100066526|17-G/A 100091166|12-G/A 100091166|42-A/G 6650613|48-C/T 6650687|41-T/G 6650796|6-C/T 6650803|47-G/C 6651101|36-C/G 6651528|20-A/T 6651771|12-T/C 6651853|15-T/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652025|35-C/T 6652815|7-T/G 6652936|53-A/C 6653177|8-T/G 6653241|40-G/T 6653293|49-G/A 6653307|12-A/G 6653389|28-A/G 6653538|48-T/C 6653579|57-T/A 6653832|7-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6661683|57-A/G 6661685|63-G/A 6661816|48-A/G 6661824|42-G/C 6661850|36-A/T 6661890|47-A/G 6665337|42-A/G 100015757|13-C/T 100016204|33-T/C 100017468|57-G/T 100017967|62-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100018112|46-A/C 100018165|13-C/T 100018718|21-G/A 100019849|5-G/A 100019859|8-G/A 100022136|24-T/C 100022312|53-T/C 100045521|11-T/G 100065432|12-T/G 100065536|20-G/A 100066606|52-G/T   
## 0.005012500 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100082316|6-G/A 100082368|14-T/G 100097022|6-T/C 100108129|36-G/A 6631225|7-T/C 6631997|14-C/T 6650612|10-C/T 6650648|12-C/G 6651035|6-G/A 6651242|13-G/A 6651289|37-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651290|54-T/A 6651373|58-C/T 6651393|29-G/A 6651401|31-A/G 6651427|13-G/A 6651437|43-G/C 6651445|36-G/T 6651476|13-C/T 6651646|25-A/G 6651749|48-G/A 6651841|8-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652088|32-C/T 6652192|52-C/A 6652260|63-T/C 6652326|50-G/A 6652369|31-T/C 6652422|33-T/C 6652547|9-G/T 6652893|32-T/A 6652909|24-T/G 6652955|18-G/C 6653017|55-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004434568 0.000000000 0.000000000 0.000000000 0.000000000 0.004454321   
## 6653103|52-T/G 6653677|36-T/C 6653708|16-C/G 6653903|37-A/G 6653934|25-C/T 6654040|14-T/C 6654091|9-T/C 6657832|39-T/C 6661183|41-T/C 6661274|44-G/C 6661675|22-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6663998|37-C/T 6664011|37-G/C 100016463|53-T/C 100016812|38-G/A 100017567|49-A/C 100017961|50-G/T 100018143|16-G/A 100019099|54-T/G 100019383|33-G/T 100019940|39-C/T 100020427|36-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004157986 0.000000000 0.000000000   
## 100020660|8-T/A 100020677|22-A/G 100021361|48-T/C 100021511|43-C/T 100021828|33-C/A 100022057|11-A/G 100022783|26-C/T 100064616|40-A/G 100065171|45-C/G 100065966|15-C/G 100082527|51-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100082585|40-G/A 100106949|10-G/A 100117044|51-G/C 6650418|9-G/T 6650423|29-A/G 6650818|67-C/T 6651153|49-G/T 6651180|65-A/T 6651287|48-A/C 6651447|19-T/C 6651655|40-A/G   
## 0.000000000 0.063280636 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651717|7-T/C 6651971|61-A/G 6651981|50-T/G 6652195|35-T/C 6652270|30-C/T 6652411|8-G/A 6652419|17-C/T 6652451|65-G/A 6652920|22-G/A 6653067|56-T/C 6653377|17-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653583|28-T/C 6653636|14-A/G 6653697|13-T/C 6653731|66-C/T 6653767|20-G/C 6653770|20-C/G 6653784|35-T/C 6653810|62-C/A 6653854|42-T/C 6653892|54-G/A 6653910|50-T/C   
## 0.004819249 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6654022|30-A/G 6661470|52-C/A 100066269|13-T/C 6662979|27-T/C 6664013|56-T/C 6664771|32-C/T 6665036|59-T/C 100015387|20-A/C 100016289|59-C/A 100017196|51-G/T 100017527|6-T/A   
## 0.000000000 0.000000000 0.045951557 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100017670|46-C/A 100018265|14-C/T 100018491|67-A/C 100019232|26-T/C 100019318|16-T/A 100019703|50-G/A 100019708|6-A/G 100019897|65-G/A 100020477|33-C/T 100022633|31-A/G 100023423|28-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004106759 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100064644|53-C/T 100065127|11-C/T 100082124|16-C/G 6632526|27-G/T 6650445|31-C/T 6650584|38-A/G 6650848|20-G/A 6651173|50-C/A 6651298|24-T/G 6651530|41-T/C 6651782|31-G/A   
## 0.000000000 0.000000000 0.000000000 0.008695486 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651907|9-T/C 6652024|30-A/G 6652131|34-G/A 6652159|67-C/T 6652177|21-C/T 6652210|27-C/A 6652401|28-T/A 6652416|68-C/G 6652713|26-G/C 6652866|10-G/A 6652983|43-C/A   
## 0.000000000 0.000000000 0.004728106 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653039|43-G/C 6653044|17-A/G 6653092|18-T/C 6653202|68-T/A 6653253|13-C/G 6653255|39-G/T 6653445|25-C/G 6653487|29-C/T 6653527|21-G/A 6653922|36-T/C 6653930|13-A/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6654013|57-T/G 6657669|38-C/T 6658619|38-A/G 6661144|14-T/C 6661228|61-G/A 6661239|28-A/G 6661757|61-G/A 6661837|5-T/C 6663958|42-G/C 6664017|22-C/T 6665345|60-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.005602197 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6665563|37-A/C 6665563|41-G/A 6665563|7-C/T 6666102|24-A/G 100015848|14-C/A 100016751|21-G/A 100017832|10-T/C 100017856|21-A/G 100018301|7-A/G 100019450|10-C/A 100019818|16-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.008031998   
## 100019983|13-A/G 100020502|50-G/A 100020602|47-A/G 100065169|68-T/C 100066267|15-G/A 100066657|20-C/G 6632946|54-T/A 6650395|54-T/C 6650450|36-T/C 6650539|5-T/C 6650675|13-G/T   
## 0.008474423 0.000000000 0.000000000 0.000000000 0.004474250 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6650760|49-T/G 6650770|63-T/C 6650778|15-A/G 6650888|42-T/A 6650948|22-G/A 6651067|68-T/C 6651104|14-T/C 6651269|64-A/G 6651380|66-C/A 6651460|39-T/A 6651469|31-G/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651565|25-G/T 6651594|47-T/G 6651714|59-A/T 6651809|19-T/C 6651814|64-A/G 6652119|10-C/T 6652183|53-C/T 6652218|58-G/A 6652272|46-C/A 6652443|56-C/T 6652587|38-G/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.004301055 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652614|24-T/A 6652643|8-A/T 6652647|54-C/A 6652695|37-C/T 6652702|52-A/C 6652729|55-C/G 6652886|48-T/A 6653028|14-A/G 6653065|44-C/T 6653124|7-G/C 6653205|17-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.007843016   
## 6653210|45-C/A 6653524|37-T/G 6653532|60-C/T 6653787|34-A/G 6653818|55-C/T 6653820|23-G/A 6653825|25-G/A 6653908|59-C/G 6653938|33-G/A 6656975|12-C/G 6658434|32-G/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.006779583 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6661131|30-C/A 6661170|60-C/T 6661460|63-C/T 100082330|10-C/T 6661516|30-G/T 6661542|10-A/G 6661650|9-G/A 6661787|54-G/C 6661807|10-G/A 6663931|44-A/G 6663966|33-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6664887|16-T/G 6665234|5-T/A 6666170|37-C/T 100016216|6-C/A 100016431|13-A/G 100016980|14-G/C 100017035|18-A/G 100018089|20-C/A 100018299|18-A/G 100019103|66-G/A 100020260|22-G/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.005970096 0.000000000 0.000000000 0.000000000 0.000000000   
## 100020593|29-A/G 100021233|9-G/T 100022402|38-T/A 100022743|53-G/A 100064690|24-G/C 100065349|19-G/C 100065841|23-T/C 100074065|11-G/A 6650412|48-C/T 6650459|40-G/A 6650487|15-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6650510|49-G/C 6650571|53-C/T 6650575|33-C/T 6650657|31-A/G 6650727|33-T/A 6650764|18-A/G 6650786|30-G/A 6650877|51-A/G 6650982|52-G/T 6650992|26-T/G 6651041|46-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651162|25-G/T 6651244|31-C/A 6651284|8-G/C 6651398|18-G/A 6651485|12-A/G 6651517|35-T/G 6651527|40-C/T 6651546|39-T/C 6651644|49-G/A 6651663|43-G/C 6651671|42-C/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651691|10-G/A 6651700|17-C/A 6651734|47-T/C 6651746|20-C/T 6651800|11-A/G 6651813|5-C/T 6651896|64-A/G 6651912|26-C/G 6651917|68-G/T 6652038|34-C/A 6652059|20-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652081|56-C/G 6652085|6-G/A 6652121|43-A/T 6652134|47-G/C 6652186|30-C/T 6652189|13-A/G 6652281|62-C/G 6652285|54-C/T 6652290|29-T/C 6652304|61-G/T 6652432|55-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652503|20-A/G 6652505|16-A/C 6652521|39-C/T 6652525|37-G/T 6652601|21-T/C 6652602|25-G/C 6652606|48-T/C 6652624|28-T/C 6652668|15-G/C 6652670|16-C/G 6652721|10-T/A   
## 0.000000000 0.016665490 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652733|37-A/G 6652745|53-A/G 6652752|31-C/T 6652791|49-C/A 6652818|11-T/C 6652862|15-A/G 6652881|22-C/A 6652972|10-T/C 6652998|52-A/T 6652999|57-A/G 6653082|48-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653098|9-A/G 6653162|29-G/A 6653274|28-A/G 6653325|64-G/C 6653332|57-G/A 6653357|42-C/T 6653362|53-G/C 6653412|42-A/G 6653426|18-C/T 6653440|10-T/C 6653465|26-C/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653468|58-T/C 6653470|47-G/C 6653503|52-C/T 6653589|18-G/A 6653681|55-A/G 6653716|66-G/A 6653721|50-T/C 6653756|39-T/C 6653768|57-T/C 6653772|52-C/T 6653912|41-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653970|10-G/T 6654035|9-A/T 6654089|34-G/C 6657074|8-C/T 6657427|36-T/G 6658142|19-G/A 6658487|31-A/T 6658567|11-A/G 6661106|67-C/A 6661340|59-C/T 6661404|52-G/C   
## 0.004210508 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6661465|25-C/G 6661493|15-T/C 6661592|37-C/T 6661602|55-A/G 6661729|38-A/G 6661755|5-T/C 6661849|5-T/A 6662667|9-T/C 6663069|39-G/A 6663912|29-A/G 6663945|17-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004414989 0.000000000 0.000000000 0.000000000   
## 6665239|6-A/G 6665353|11-A/G 6665974|11-A/T 6666103|68-G/A 100016182|32-A/G 100017836|20-G/A 100017869|6-A/G 100018411|68-A/C 100020222|50-C/G 100021008|5-T/G 100021734|34-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100021842|6-T/A 100045232|8-G/C 100065195|59-A/G 100074076|12-A/C 100114674|53-G/A 6650380|13-C/T 6650404|10-C/T 6650422|10-A/C 6650471|64-T/C 6650500|18-G/C 6650515|50-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6650537|13-C/T 6650542|10-G/A 6650554|41-G/A 6650556|9-G/C 6650615|12-C/T 6650633|41-A/C 6650636|55-A/G 6650715|51-A/G 6650784|41-A/G 6650806|54-A/G 6650812|44-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6650885|45-G/T 6650890|7-G/A 6650891|27-C/G 6650939|41-A/G 6651045|37-G/C 6651063|37-A/C 6651127|50-C/G 6651189|65-G/A 6651213|10-C/G 6651259|15-G/A 6651305|62-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651312|67-T/C 6651314|20-C/T 6651471|5-C/A 6651479|37-T/G 6651523|45-A/T 6651524|18-G/A 6651611|23-A/T 6651617|38-A/C 6651627|10-C/A 6651680|16-T/G 6651686|18-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651990|27-G/T 6652031|21-T/C 6652068|30-T/C 6652123|48-C/T 6652141|65-C/T 6652156|37-G/T 6652188|11-A/G 6652217|66-T/A 6652220|47-G/A 6652222|50-C/T 6652329|66-G/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004728106 0.005570987 0.000000000   
## 6652364|41-C/T 6652450|9-A/C 6652454|59-C/T 6652470|43-C/T 6652506|53-A/T 6652539|13-G/A 6652561|39-T/C 6652572|11-T/G 6652637|54-T/C 6652648|60-T/A 6652659|15-A/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652665|12-A/G 6652728|28-T/C 6652751|58-A/G 6652774|48-G/A 6652817|30-A/G 6652845|15-G/A 6652939|61-C/T 6652947|66-T/A 6653004|32-T/G 6653011|14-C/T 6653170|45-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653174|64-A/C 6653291|22-A/G 6653324|46-G/A 6653415|50-C/G 6653489|12-A/C 6653514|8-A/G 6653535|20-A/T 6653594|40-G/A 6653646|49-A/T 6653674|54-T/C 6653683|31-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653750|55-T/C 6653771|10-A/G 6653779|21-T/C 6653822|27-G/A 6653827|15-A/G 6653858|29-G/T 6653928|36-T/A 6653969|26-C/T 6654051|34-T/C 6654056|9-C/T 6654078|12-T/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6657388|11-G/T 6657512|7-T/A 6657941|41-C/T 6658094|46-C/A 6658571|22-C/A 6658640|12-C/T 6661287|22-A/G 6661315|34-C/A 6661316|17-T/A 6661420|51-G/A 6661453|6-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6661468|17-G/T 6661489|62-C/T 6661552|5-G/T 6661577|44-A/C 6661601|15-G/A 6661629|40-G/A 6661651|60-G/A 6661703|29-A/G 6661728|35-C/T 6662799|24-G/T 6662820|22-T/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.007017457 0.000000000 0.000000000   
## 6662890|34-A/G 6662898|11-T/C 6662977|22-A/G 6664083|6-T/C 6664294|44-T/A 6664720|7-C/A 6665218|24-G/A 6665351|57-C/G 100109477|37-C/T 6665629|41-C/T 6665821|31-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.005449551 0.000000000 0.000000000   
## 100016377|14-C/T 100016728|8-C/G 100017376|68-T/C 100018451|6-C/T 100019918|66-C/T 100022411|61-C/G 100064620|27-T/G 100064811|7-G/A 100065350|20-A/G 100109953|9-A/G 6650460|21-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6650519|57-T/C 6650579|51-T/C 6650580|37-G/A 6650607|66-G/A 6650671|45-C/A 6650689|52-T/A 6650703|19-G/A 6650815|7-A/G 6650944|60-T/A 6650965|12-G/T 6651031|38-C/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651069|41-G/C 6651089|58-C/G 6651139|39-G/A 6651355|22-C/T 6651367|34-G/T 6651487|9-A/G 6651578|26-T/C 6651593|32-G/C 6651619|40-T/C 6651620|38-C/T 6651675|34-C/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651806|49-A/C 6651821|15-A/G 6651825|51-A/T 6651968|21-G/A 6651983|9-A/T 6652057|5-C/T 6652073|37-A/C 6652074|10-G/A 6652115|60-T/G 6652197|23-A/G 6652244|39-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652249|29-C/T 6652338|5-C/T 6652392|7-T/C 6652466|57-C/T 6652514|66-T/C 6652554|50-A/G 6652556|53-T/C 6652589|8-C/A 6652749|25-T/C 6652753|11-T/G 6652776|45-A/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652806|6-C/T 6652834|26-T/C 6652885|65-C/G 6652929|66-T/A 6652935|47-C/T 6653073|5-G/T 6653088|16-G/A 6653093|44-G/A 6653104|55-C/T 6653436|11-T/C 6653497|6-C/T   
## 0.000000000 0.000000000 0.004454321 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653639|65-G/T 6653645|43-C/G 6653769|16-G/C 6653927|44-C/T 6653953|41-C/T 6653987|61-A/G 6653993|15-A/G 6654009|23-C/T 6656879|21-T/C 6656932|34-C/G 6657077|25-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6657152|47-T/C 6657200|7-T/C 6657228|8-C/T 6657447|9-A/T 6657510|13-A/G 6657518|14-A/C 6657616|11-A/G 6657889|17-C/G 6657989|13-T/G 6657992|32-T/C 6658007|29-T/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.006042241 0.000000000 0.000000000 0.000000000 0.000000000   
## 6658058|7-C/G 6658330|11-C/G 6658349|12-A/C 6658401|16-G/T 6658424|11-A/T 6658451|54-A/G 6658473|36-A/C 6658548|12-C/A 6658667|17-A/G 6661128|54-T/A 6661132|53-C/T   
## 0.000000000 0.004661979 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.006600588 0.000000000 0.000000000   
## 6661145|48-C/T 6661169|16-A/C 6661418|24-T/G 6661447|57-G/A 6661551|43-A/T 6661606|48-G/C 6661621|22-T/C 6661667|62-A/G 6661716|24-C/T 6661770|21-C/T 6662676|12-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6662737|6-A/T 6662747|22-A/G 6662778|8-A/G 6662831|7-G/C 6662962|22-T/G 6662984|35-A/G 6663913|23-G/A 6663996|47-G/T 6664080|40-C/A 6664712|24-G/A 6665849|24-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6665849|27-A/G 100019306|41-G/C 100023120|53-T/C 100045071|11-G/T 100073787|12-T/C 100073808|38-G/A 100082396|45-C/T 100082676|61-G/A 6650780|18-C/T 6651956|47-C/T 6652018|68-G/A   
## 0.000000000 0.000000000 0.000000000 0.004597677 0.000000000 0.000000000 0.000000000 0.000000000 0.013071330 0.000000000 0.000000000   
## 6652299|52-G/C 6652898|20-T/A 6653146|40-G/A 6657342|25-G/C 6657451|13-T/C 6657720|20-T/G 6657882|21-C/T 6658021|6-G/C 6658104|7-T/G 6658212|12-A/G 6658246|8-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6661212|11-A/C 6661231|65-C/G 6661373|56-C/G 6661472|51-T/C 6662632|29-C/A 6662644|9-A/C 6662718|14-A/G 6662788|5-C/G 6663015|45-C/G 6663056|27-G/A 6663101|48-T/C   
## 0.000000000 0.000000000 0.011299070 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6663942|12-C/G 6663943|19-C/G 6664030|20-T/A 6664734|37-C/T 6665050|6-C/T 6665686|46-A/G 100064830|15-G/C 100073523|7-G/T 100073850|23-A/C 100074130|14-T/C 100085916|27-G/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100085918|17-C/T 100093520|12-T/C 100102104|19-G/T 100104847|9-C/T 100107045|42-G/A 100111102|5-T/C 100118833|7-G/A 100118214|9-G/A 6661395|67-G/A 6661549|61-G/A 6664299|8-G/C   
## 0.007843016 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.005602197 0.000000000   
## 6661899|30-T/C 100117994|5-C/A 100118292|6-C/T 100120255|8-G/T 100122091|12-G/A 6658340|10-T/A 6662816|5-C/A 6662936|6-T/A 6662936|8-A/G 6662964|8-C/T 6662966|17-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.006309085   
## 6664885|14-G/A 6661031|8-G/A 100066612|18-A/G 6652306|13-T/C 100085941|14-G/T 100018734|36-T/A 6661163|12-C/T 100065635|32-C/T 6661774|57-G/A 100082623|35-G/A 100065110|61-C/T   
## 0.000000000 0.000000000 0.000000000 0.011695502 0.000000000 0.008298611 0.025969529 0.017240076 0.006600588 0.077222883 0.000000000   
## 6661113|35-G/T 100118834|24-T/A 100065734|46-A/C 6663988|26-G/A 6661432|6-G/T 6661894|14-C/T 100025027|41-A/T 100065037|22-A/G 6661398|17-C/G 6661689|5-A/G 6664901|14-T/C   
## 0.000000000 0.028979239 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6661325|52-G/A 100024800|55-T/C 6661569|21-G/T 100015330|20-C/A 100017807|41-C/T 100021430|18-A/C 100021922|61-T/G 100024081|21-C/T 100044596|39-C/T 6651341|31-A/G 6652981|11-C/A   
## 0.000000000 0.005970096 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100065893|67-C/T 100015238|36-T/C 100015491|32-C/T 100015884|7-G/A 100019050|23-G/A 100022813|55-A/C 6653072|57-C/T 100016062|38-A/G 100017135|23-C/G 100021766|9-T/A 100022076|54-G/A   
## 0.005970096 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.014387734 0.000000000 0.000000000 0.000000000   
## 6661377|53-C/T 100015975|43-A/T 100016187|49-G/C 100024150|52-T/G 100018712|5-A/C 100021390|26-A/G 100045683|24-T/C 6661840|10-C/T 100016255|15-T/A 100020380|45-T/G 100021355|11-G/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100021470|64-A/G 100023138|54-G/A 100023921|57-C/T 6650819|43-C/T 6653757|13-T/G 100015309|36-C/A 100015511|36-A/G 100015825|32-G/T 100016469|15-C/A 100019560|67-A/T 100021988|8-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100022638|31-A/T 100022674|60-A/G 100023456|47-T/C 100023464|21-G/T 100023506|63-G/C 100121198|44-C/T 6664022|46-T/C 100017302|21-A/C 100017884|42-T/C 100020887|11-G/A 100022100|32-C/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.012738330 0.000000000 0.000000000 0.000000000 0.000000000   
## 100022978|31-G/T 100064951|7-C/T 100108048|25-G/C 6653000|22-C/T 6661699|44-C/T 100015643|21-A/G 100016494|59-G/A 100017300|12-G/T 100017465|6-C/A 100019558|59-A/C 100021942|23-G/A   
## 0.022672755 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100022249|52-T/C 100022694|55-C/G 100022788|12-C/T 100101046|61-C/A 6652314|37-T/C 100015332|7-C/A 100015389|56-T/A 100015557|20-C/G 100017329|58-G/T 100018963|60-A/C 100019082|25-A/G   
## 0.000000000 0.000000000 0.006557306 0.004514650 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100019182|47-T/A 100020256|17-T/G 100020398|8-A/C 100021013|48-A/T 100021289|8-A/G 100023421|10-T/G 6653492|18-A/G 6661385|64-G/C 6661806|68-G/A 100017094|36-C/T 100017357|22-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.013422206 0.000000000 0.000000000   
## 100018276|13-A/G 100018426|49-A/T 100018952|47-A/T 100021643|42-A/T 100022068|8-T/C 100022755|51-G/A 100066666|24-G/A 6661519|31-A/T 100015745|7-C/T 100018424|55-T/A 100021037|43-A/C   
## 0.000000000 0.000000000 0.004210508 0.000000000 0.000000000 0.000000000 0.004474250 0.000000000 0.000000000 0.000000000 0.000000000   
## 100021847|31-C/T 100022744|13-G/C 100023381|30-A/G 100023472|27-C/T 100023477|8-T/G 100024933|20-T/G 6651050|34-T/C 6652421|32-C/G 100082161|17-G/C 6661817|22-G/A 6665065|47-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.005063259 0.000000000 0.008230312 0.000000000 0.000000000   
## 6666515|7-G/A 100015276|20-C/T 100016849|33-A/G 100018157|49-A/G 100018512|6-C/A 100019166|40-G/A 100019599|68-C/T 100020395|68-C/T 100020496|40-T/C 100022054|30-T/C 100022238|35-T/C   
## 0.000000000 0.000000000 0.000000000 0.004376347 0.000000000 0.000000000 0.004494359 0.004494359 0.000000000 0.000000000 0.000000000   
## 100022761|21-C/T 100064714|31-A/C 100082512|27-G/T 6635566|26-T/G 6651319|63-C/T 100101042|27-A/G 100015522|21-A/T 100015635|48-A/C 100016324|17-G/C 100017167|42-A/G 100017270|46-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100018878|51-C/T 100019810|41-A/G 100020422|49-T/G 100021781|44-T/A 100022052|36-T/A 100022732|37-A/G 100023771|42-A/T 100064904|9-C/T 100066133|22-A/T 6635226|21-A/G 6661769|64-T/A   
## 0.004819249 0.004395583 0.004661979 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004228311   
## 100015503|66-A/T 100015669|26-A/G 100016926|66-A/G 100017163|47-A/G 100017930|44-G/A 100018643|57-G/A 100019627|11-G/A 100019775|26-T/C 100020011|13-C/A 100020180|30-T/A 100020794|35-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.004819249 0.000000000 0.000000000 0.011975613 0.000000000 0.000000000 0.005730612   
## 100022441|55-A/G 100065577|55-T/C 100066375|31-C/T 100101063|14-G/A 6634311|8-T/C 6650564|10-C/G 6651449|21-G/A 100015590|56-T/C 100015813|59-T/A 100015865|6-C/T 100015966|35-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100016299|67-G/A 100017046|59-A/G 100017306|20-C/T 100017681|59-G/A 100018541|45-C/T 100019001|52-T/C 100019248|51-C/A 100019357|10-A/C 100020167|8-T/C 100020584|49-G/A 100020830|34-G/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100021518|64-T/G 100023323|17-A/G 100065274|22-T/A 100066055|6-T/C 6652294|28-T/C 6661350|27-G/A 100015979|10-G/A 100016232|12-A/G 100016804|11-G/T 100016918|64-T/A 100017355|38-C/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100018239|64-C/A 100018653|43-T/C 100019075|38-G/C 100020739|29-A/G 100022196|19-G/A 100022506|24-C/G 100022716|15-T/C 100065001|58-T/A 6661682|7-T/C 100016459|9-T/C 100016800|17-T/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004319634 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100016857|32-A/T 100016901|25-G/A 100017304|40-T/G 100018018|24-G/T 100018056|56-G/C 100018188|36-G/T 100018521|14-G/A 100019406|13-G/A 100019617|68-C/A 100020206|45-C/G 100021877|23-T/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100022598|56-C/T 100022715|29-C/T 100022769|37-G/A 100023124|68-T/G 100045390|32-G/A 100064869|18-A/G 100066159|27-C/T 6651348|40-T/G 6651910|25-A/T 6661267|31-G/A 6661407|12-G/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.005012500 0.000000000 0.000000000 0.000000000   
## 6661471|46-G/T 100015328|40-A/C 100015329|5-T/A 100015695|23-C/T 100015994|62-A/T 100016280|42-G/C 100016310|50-G/A 100017976|8-T/G 100018090|15-T/C 100018376|15-G/A 100019811|9-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100019879|32-T/C 100020836|42-T/G 100020897|56-T/C 100020918|25-A/G 100022084|40-A/G 100022253|28-T/C 100022347|11-T/G 100022822|20-C/T 100022863|16-C/G 100064727|32-C/G 100064762|17-A/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100065060|19-C/T 100065198|28-C/T 100065497|6-G/A 100066169|37-C/A 100066413|57-T/G 100066518|25-A/C 6650606|12-A/G 6650782|37-G/A 6651161|26-A/T 6651343|64-C/T 6651987|65-G/C   
## 0.010470914 0.005970096 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652583|9-C/G 6653986|35-G/A 100017405|46-T/C 100018360|48-T/C 100020046|11-T/G 100020184|33-A/T 100020356|17-C/T 100021172|11-C/T 100021739|23-A/G 100022407|43-A/G 100022586|32-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.009478458 0.000000000 0.000000000 0.000000000   
## 100023347|40-A/G 6630669|54-A/C 6651087|52-A/G 6653823|53-T/C 6661427|45-A/T 6664050|11-T/C 100015339|30-G/A 100015780|53-A/C 100016477|49-C/T 100016846|6-A/G 100017534|5-A/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100018524|64-G/T 100018715|45-A/C 100019637|34-T/C 100019730|38-A/G 100020004|34-G/C 100020093|64-G/T 100020177|61-C/T 100020736|62-T/C 100021876|36-T/C 100022251|18-A/C 100022479|48-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.009389462 0.000000000 0.000000000 0.000000000   
## 100023192|44-C/T 100065374|28-T/A 100065413|68-G/T 100065460|57-T/A 100065786|62-T/C 100065981|32-G/A 100093548|6-T/C 6635925|28-G/A 6651303|15-G/A 6652226|61-A/C 6652595|25-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.004705856 0.000000000 0.011560303 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652880|30-G/A 6653288|5-T/C 6661743|26-G/A 100015258|11-G/A 100015334|11-A/C 100015520|48-T/A 100016206|60-T/G 100016803|55-T/A 100016999|24-T/C 100017691|42-G/C 100018254|14-G/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100018691|53-C/T 100018832|49-T/A 100018836|30-T/A 100018972|63-T/C 100018993|58-G/A 100019968|28-T/C 100019971|65-T/G 100020134|53-C/T 100020237|19-C/T 100020353|50-A/G 100021532|8-T/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100022232|46-T/C 100022564|55-G/A 100064590|10-C/G 100064752|47-G/T 100066482|40-C/G 100066499|21-A/C 100082126|5-A/G 100082673|16-C/G 100118390|28-A/G 100118390|5-C/G 6650749|8-A/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.008968428 0.000000000 0.000000000 0.000000000 0.000000000   
## 6650993|48-A/G 6651187|10-A/T 6652437|24-T/C 6652887|56-G/A 6653102|62-A/C 6653358|49-T/A 6661200|10-A/G 6661277|39-G/A 6661479|25-C/A 6665776|10-G/A 100116183|6-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.004282636 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.007721892   
## 100065388|52-T/C 100015585|60-A/G 100016513|5-C/A 100016711|48-G/A 100017104|21-C/A 100017773|59-C/T 100017895|25-A/T 100018069|40-A/G 100018279|30-C/A 100018386|10-G/C 100018698|26-G/A   
## 0.020405994 0.000000000 0.000000000 0.000000000 0.000000000 0.009049587 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100021026|29-A/G 100021644|9-C/A 100022215|30-A/G 100023511|29-G/A 100065011|9-G/T 100065481|45-G/C 100065665|18-T/G 100082041|35-T/G 100082540|39-C/T 6635352|11-C/T 6651637|46-A/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004434568 0.000000000 0.000000000 0.000000000   
## 6652697|44-G/A 6652848|23-G/T 6661188|24-G/C 6661506|68-A/T 6661846|36-C/G 100121512|16-T/C 100015223|24-C/T 100015336|36-G/A 100016018|57-G/C 100016257|18-G/A 100016363|39-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100016533|62-C/T 100017334|62-C/T 100017905|42-A/G 100018782|32-C/A 100018840|12-A/G 100018918|28-G/A 100018973|26-T/G 100019583|32-G/T 100020635|19-T/C 100020952|67-A/G 100021607|12-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100021759|51-G/A 100022391|27-T/C 100022668|57-T/C 100065738|47-G/C 100066164|11-G/A 100066550|5-T/C 6633324|49-T/G 6634529|30-T/C 6651763|8-A/T 6651994|28-A/G 6652616|33-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.005602197 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653336|20-T/C 6653857|60-T/A 6661332|57-A/T 6661613|21-G/A 100015558|12-T/G 100016614|13-A/G 100016893|9-G/A 100016974|14-T/C 100017016|14-G/C 100018076|32-A/G 100019206|6-T/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100019217|46-A/T 100019384|38-C/T 100019646|24-T/A 100019874|10-C/G 100019964|12-C/A 100020293|37-A/G 100020842|17-G/A 100021693|26-T/C 100022050|68-A/T 100022979|40-A/G 100023492|66-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100045668|41-G/A 100065160|26-C/T 100066259|47-G/A 6630074|25-T/C 6651026|5-A/G 6651431|37-C/G 6651540|51-T/C 6651708|27-C/T 6652397|25-T/C 6653258|20-A/C 6661295|56-C/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.006116150 0.000000000 0.000000000   
## 100016658|9-C/T 100016823|19-A/C 100017190|25-A/G 100017629|18-T/C 100018573|66-T/A 100019552|33-T/G 100021046|26-A/G 100022548|38-A/C 100065206|29-C/A 100065846|12-T/A 6651279|28-G/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.004210508 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652199|28-G/A 6652400|17-C/T 6652445|11-A/T 6653155|9-C/G 6653256|29-G/A 6661317|35-T/C 6663970|38-G/C 6665305|7-T/C 100015212|40-T/C 100015773|62-T/C 100016229|66-G/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.006153788 0.000000000 0.000000000 0.000000000 0.000000000   
## 100017966|44-G/A 100018540|41-C/G 100019145|8-G/A 100020607|26-G/A 100021569|14-G/A 100023034|23-C/T 100023386|11-T/C 100065690|24-C/G 6650623|27-T/C 6650909|20-C/G 6651336|17-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651419|53-T/C 6652696|7-A/G 6652736|50-T/A 6653280|14-G/T 6653295|57-T/C 6653940|33-C/G 6661206|18-A/G 6661327|42-G/C 6664003|47-C/T 100015464|37-A/T 100015704|41-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.007905014 0.000000000 0.000000000   
## 100016862|45-C/T 100019871|11-C/T 100020987|40-T/C 100021296|8-G/A 100065560|20-C/G 100066263|36-C/T 100066672|61-G/C 100082462|27-A/G 6632122|60-C/T 6650958|39-G/T 6651020|25-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651285|11-A/G 6651625|35-A/G 6651661|21-C/A 6651716|31-A/G 6651796|30-T/G 6651885|10-A/T 6652069|22-A/G 6652117|17-A/G 6652234|42-G/A 6653188|36-T/C 6653368|52-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6661580|47-C/T 6661803|14-T/C 6661812|53-C/T 6661866|32-G/C 100015736|43-G/A 100016141|36-G/A 100017142|64-C/T 100019476|8-T/C 100022055|56-G/A 100022078|12-T/C 100022886|24-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6631211|9-C/T 6651047|34-T/G 6651407|46-C/T 6651481|28-G/C 6652585|52-T/G 6653252|68-G/A 6653882|52-A/T 6653901|21-A/T 6654029|48-A/G 100015720|28-G/T 100016789|20-G/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100016796|38-G/A 100017412|8-A/G 100017613|42-T/G 100017642|45-C/A 100017690|28-G/T 100018660|67-C/T 100020040|40-T/A 100021191|5-G/C 100023009|12-A/G 100065757|7-G/C 100066245|18-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100074042|5-T/C 100082359|43-C/T 6635615|63-A/T 6650495|22-G/C 6650509|12-C/A 6651034|16-A/T 6651369|18-C/G 6651472|63-T/C 6651525|65-T/G 6651657|19-G/A 6651750|54-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652293|6-T/G 6652474|14-G/A 6653662|55-G/C 6661543|6-A/G 100017915|15-G/A 100020329|6-T/C 100021269|67-C/T 100021647|7-C/G 100065434|44-T/G 100091128|19-C/T 6630649|30-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6631485|63-C/T 6634232|23-C/T 6650379|29-C/T 6650507|19-A/C 6650854|20-G/A 6651417|34-C/T 6651649|55-G/A 6651797|46-C/T 6652137|50-T/C 6652171|14-G/C 6652353|59-C/T   
## 0.000000000 0.012684473 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652439|17-A/C 6652481|49-A/G 6652592|44-C/T 6652631|8-T/C 6652759|5-G/C 6653033|21-C/A 6653086|60-T/C 6653403|58-C/G 6653441|17-C/A 6653651|15-A/G 6653652|24-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653717|62-T/A 6653911|22-G/C 6657418|43-C/G 6658319|40-G/A 6661213|21-C/T 6661527|23-T/C 6664003|60-C/T 100017332|29-G/A 100018422|17-T/C 100019803|28-C/T 100020227|22-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100021230|36-G/A 100045732|32-A/G 100065400|55-A/G 100065695|10-T/A 6650641|39-G/C 6650730|37-C/T 6651079|5-A/T 6651096|56-T/C 6651302|27-C/G 6651575|42-A/G 6651609|46-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651712|16-T/C 6651755|6-C/G 6651927|7-C/T 6652423|26-A/G 6653022|23-G/C 6653024|17-C/T 6653143|11-A/G 6653233|66-T/A 6653287|46-C/T 6653308|9-A/G 6653555|27-A/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653600|5-T/C 6653915|45-T/G 6653995|60-T/C 6657836|14-A/G 6661227|16-C/A 6661262|58-G/T 6661434|38-G/T 6661641|45-A/G 6661702|15-A/G 6662581|37-A/T 100114018|47-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.004597677 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100016369|9-A/G 100017864|12-A/C 100018488|65-A/G 100018874|30-C/T 100022833|43-A/C 100045516|20-A/G 100065233|14-C/G 100065518|13-T/G 100065693|58-C/T 100066101|12-T/C 6633196|52-G/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004454321   
## 6633443|50-C/G 6650488|44-T/C 6650661|48-G/C 6650800|48-C/T 6650825|39-G/A 6650845|36-C/T 6650876|20-T/G 6651093|21-T/C 6651267|9-G/A 6651306|19-G/A 6651379|44-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651554|67-T/C 6651736|43-T/C 6651932|30-T/C 6651941|51-C/T 6652116|48-C/T 6652661|48-C/T 6652756|60-T/C 6652829|67-A/G 6653016|28-G/A 6653035|59-T/C 6653400|19-A/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653480|48-C/A 6653764|58-T/G 6654093|42-A/G 6661397|22-T/G 6663931|67-C/G 6663957|68-G/A 6663967|43-G/C 6665630|56-C/T 100017995|7-C/G 100020113|15-A/T 100022566|30-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100044990|7-T/C 100065049|7-G/T 100066339|40-A/G 100082461|32-T/A 6632579|11-G/A 6650828|56-C/T 6650907|12-G/C 6650924|57-A/T 6651078|6-G/A 6651186|45-G/A 6651357|21-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.007721892 0.000000000 0.000000000   
## 6651533|11-T/C 6651835|18-A/G 6651845|5-C/T 6652615|62-G/A 6652654|38-A/G 6652959|31-C/A 6652967|19-C/T 6653003|36-G/C 6653135|53-G/T 6653227|62-A/G 6653345|29-G/T   
## 0.000000000 0.000000000 0.000000000 0.004282636 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653424|16-A/C 6653449|26-T/C 6653581|57-G/C 6653676|29-A/G 6653712|15-T/C 6653723|10-C/T 6653956|18-A/G 6654001|23-C/A 6658504|15-C/A 6658614|43-T/G 6661202|35-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6661234|44-T/C 6661397|27-C/T 6661731|51-C/A 6661793|54-A/G 6663947|19-T/G 6664041|32-A/G 6664042|66-G/A 6664043|13-T/A 100017392|44-T/G 100020618|50-C/T 100022663|33-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6630289|20-G/C 6650619|36-T/C 6650638|22-A/C 6650699|38-T/C 6650728|58-T/C 6650755|23-T/A 6650783|14-G/A 6650849|14-T/C 6650880|67-A/G 6651095|41-C/T 6651245|18-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651292|26-C/G 6651352|20-T/C 6651467|62-G/C 6651557|42-C/T 6651631|26-C/T 6651664|24-T/C 6651688|48-C/T 6651718|35-C/T 6651795|51-C/T 6651923|42-T/C 6651965|39-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652219|19-T/C 6652378|63-C/T 6652434|66-A/C 6652655|53-T/G 6652722|31-C/A 6652830|22-T/C 6652882|43-C/A 6653040|42-C/T 6653271|6-A/G 6653385|63-G/T 6653386|12-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653418|27-T/A 6653450|16-A/G 6653476|17-G/C 6653520|26-A/G 6653763|12-G/A 6653916|15-T/C 6654026|50-T/C 6654061|33-A/G 6657577|47-G/A 6657800|39-C/A 6658145|22-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.010049995 0.000000000   
## 6658508|25-A/G 6661100|58-G/C 6661185|17-G/C 6661209|14-C/T 6661230|12-C/T 6661236|16-T/C 6661314|22-A/C 6661446|29-G/A 6661535|11-G/A 6661559|28-T/C 6661597|46-G/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6661642|45-G/T 6661657|60-G/A 6661731|68-A/G 6661796|25-A/G 6662683|15-T/C 6664747|36-A/C 6665469|54-T/A 6665629|23-C/G 100023210|29-C/A 100065681|26-G/T 100114697|13-C/G   
## 0.000000000 0.000000000 0.004474250 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6630523|63-G/A 6650409|45-T/C 6650528|28-G/T 6650721|49-C/T 6651065|27-G/T 6651098|23-T/C 6651125|47-G/A 6651426|10-G/A 6651605|61-C/A 6651634|10-G/C 6651759|12-C/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651815|20-A/C 6652098|62-G/A 6652125|13-C/T 6652182|12-A/G 6652205|23-G/T 6652340|36-A/G 6652361|22-A/G 6652367|17-C/A 6652519|22-A/T 6652681|7-T/C 6652787|16-C/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653095|8-G/T 6653128|9-G/T 6653131|30-G/A 6653340|41-C/T 6653516|66-C/G 6653855|60-C/A 6654020|41-T/C 6654087|18-G/A 6657400|14-C/T 6658359|12-G/A 6661176|55-C/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6661182|18-C/T 6661371|21-A/G 6661403|66-A/C 100065611|31-A/C 6661497|12-G/A 6661654|59-A/G 6662907|21-A/G 6663946|23-C/G 6665056|53-C/T 6665628|28-C/A 100019769|39-T/C   
## 0.000000000 0.000000000 0.000000000 0.052747133 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.006430801 0.000000000   
## 100082375|66-T/G 100082404|55-T/C 6650592|12-C/A 6651184|37-G/A 6652576|37-G/T 6652672|55-C/T 6653304|23-A/T 6656915|10-G/T 6657307|34-A/T 6657558|38-C/T 6658381|25-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6658521|6-G/C 6661752|23-A/C 6664327|23-G/A 100044751|5-A/G 100085984|13-G/A 100115531|5-T/A 6643578|12-A/G 100106109|11-G/A 100113138|5-T/G 100117994|11-T/A 6662821|6-T/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6664383|8-A/G 6665284|5-C/G 6665328|8-T/A 6665629|20-C/G 100118214|11-C/A 6663102|10-G/A 100021042|56-T/C 100090841|7-C/A 100103683|13-G/A 100103683|6-A/T 100106227|13-C/A   
## 0.000000000 0.004106759 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100106247|9-T/A 100111488|6-C/G 100112338|6-T/G 100114623|5-C/G 6644428|5-T/A 6647555|5-C/A 6648501|8-A/G 6648560|7-T/C 6658337|6-C/G 6664325|9-C/T 6664355|7-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6664406|5-G/T 6664885|10-C/T 6665134|5-A/G 6665147|13-C/T 100065344|49-T/C 6661457|44-C/T 6661867|13-G/A 6661122|26-C/T 100064630|57-A/G 100025554|68-T/A 6658677|32-C/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.019167534 0.000000000 0.000000000 0.000000000 0.007604452 0.000000000 0.000000000   
## 6635413|16-T/A 6661764|43-C/A 6652801|27-G/A 100024646|8-G/C 100066569|63-G/A 6652374|43-T/C 6661449|54-A/C 6661688|9-G/T 6661583|7-C/T 6661219|45-G/A 100016118|67-A/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004889946 0.000000000 0.020098431 0.005037751 0.000000000 0.000000000   
## 100065968|17-C/T 6664008|7-T/G 100019909|40-A/G 100024919|19-A/C 100021772|52-T/C 100066372|27-A/G 100091350|43-A/C 100017975|34-A/G 100045781|34-C/A 6652884|53-G/A 100017252|27-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100017894|53-G/A 100022254|26-T/A 6632275|61-T/C 100065115|49-T/C 100065825|30-T/C 6654008|51-C/T 6653230|18-T/G 100020850|15-T/A 100024608|28-A/G 100065720|36-C/T 100019004|19-T/C   
## 0.000000000 0.000000000 0.004842586 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100022949|21-T/C 100024718|58-G/A 100065076|9-G/C 6650868|53-G/A 100017101|27-T/G 100017766|10-C/A 100019793|62-T/A 100021136|57-G/A 100021706|33-T/C 100025017|58-T/C 6652036|20-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100015261|30-G/A 100015698|55-A/C 100016039|28-T/C 100021704|31-A/T 100021798|6-G/A 100022137|6-T/C 100022883|14-A/G 100023375|24-A/C 100064876|34-G/A 100022317|10-A/G 100065186|8-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653805|57-G/C 100021710|10-A/G 100023305|24-G/A 6634600|17-T/C 6650598|62-C/A 100017818|14-T/G 100020277|67-T/G 100020322|14-C/T 100021252|30-G/A 100022007|39-C/T 100022967|55-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004576635 0.000000000 0.000000000   
## 100023231|52-G/C 100024979|12-A/T 6651448|5-C/A 6661619|36-C/T 100101013|46-C/T 100015916|40-T/G 100019381|29-T/C 100021309|54-A/G 100022531|25-T/C 100022877|17-A/C 100023365|32-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.010752374 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100023869|51-T/A 100066103|5-G/A 100066389|65-G/C 6652703|57-T/C 100019288|33-T/C 100020549|44-T/G 100020551|60-A/T 100023117|6-G/T 100023343|62-G/A 100065070|10-C/T 100119322|60-G/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653215|23-A/C 100015905|30-T/A 100018538|19-A/G 100020139|46-T/C 100020548|9-A/C 100065378|43-C/T 100065666|20-A/T 100065687|58-C/T 6651010|63-C/T 6651023|13-C/T 6651465|19-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004376347 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653507|50-C/G 6661164|56-C/G 100015555|49-G/A 100017215|20-C/T 100018040|51-T/A 100018557|8-A/C 100019185|63-C/G 100019688|44-C/T 100023075|63-C/G 6630180|30-A/G 100015432|27-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100017493|63-A/G 100020399|26-G/A 100020528|67-A/G 100021151|33-C/G 100021753|16-G/A 100021795|51-G/A 100062072|14-A/C 100066634|26-T/A 6661693|17-A/G 100015331|61-T/C 100015609|28-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100017169|13-G/A 100017928|37-T/A 100019505|12-C/A 100020075|44-G/T 100020413|29-G/A 100021373|46-G/A 100021417|26-A/C 100022461|56-A/G 100022969|9-G/A 100023275|19-T/C 100082212|44-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004210508 0.000000000 0.000000000   
## 6652622|54-G/A 6653084|57-C/G 6653710|21-C/T 6653840|32-A/T 100021632|19-T/C 100022984|17-G/C 100064905|26-T/A 100015960|29-G/A 100016761|32-C/T 100017811|61-T/C 100019007|29-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100020970|16-G/A 100065097|13-T/C 6651396|51-T/G 6651430|31-C/T 100015246|12-A/G 100017606|48-T/C 100018953|27-G/C 100019018|13-A/G 100020129|19-G/A 100020404|28-A/G 100020733|17-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.012578112   
## 100021724|12-A/C 100066663|43-G/A 100122660|5-A/G 6630550|32-T/C 6652105|37-A/G 100015837|30-T/C 100016214|35-G/T 100017908|21-G/A 100019267|32-G/A 100023141|5-C/T 100023174|41-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100064755|8-G/A 6651656|34-G/A 6651767|59-G/C 6664728|67-C/T 100018065|63-T/A 100019510|9-G/A 100019632|22-T/C 100019754|7-A/T 100020251|60-G/A 100021712|18-T/A 100044571|14-T/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.007272630 0.000000000 0.000000000 0.000000000 0.004338374 0.000000000 0.000000000   
## 6661691|15-C/T 6663917|15-C/T 100018085|21-A/G 100019876|24-A/C 100020554|42-G/T 100022262|60-C/A 100023321|57-A/G 100065480|65-T/A 6652163|42-T/G 6661278|34-C/G 6661299|21-G/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100016113|5-T/A 100018753|18-C/A 100022995|26-G/A 100045005|36-T/A 100065425|18-T/G 100065813|42-A/C 100066450|34-C/G 6652607|6-A/G 6653544|67-T/C 6661463|59-T/G 6661534|24-C/T   
## 0.000000000 0.000000000 0.000000000 0.008298611 0.000000000 0.000000000 0.009090720 0.000000000 0.000000000 0.000000000 0.000000000   
## 100020053|13-A/T 100020534|56-C/G 100020747|66-T/A 100022664|19-A/G 100023314|12-C/T 100024345|29-C/T 100065655|8-A/T 100082306|16-G/C 6632614|14-G/C 6650544|61-G/A 6661521|5-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6661754|5-A/T 100017623|23-C/T 100019111|65-T/A 100020626|26-A/C 100022838|5-C/T 6661655|44-C/A 100015424|32-C/A 100017638|47-T/C 100019862|5-A/G 100064626|46-C/T 100066576|33-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100082421|35-G/T 100082421|56-A/T 6661595|45-G/A 100018565|14-C/T 100019547|16-A/T 100021316|68-A/T 100066021|13-T/C 100066577|66-T/C 6635995|53-T/G 6650794|31-T/C 6651294|52-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6661643|39-A/C 6665642|53-T/C 100017091|53-T/C 100018288|5-C/T 100019411|13-C/T 100022970|53-A/G 100044935|38-C/G 100065133|26-G/A 100065604|17-G/A 6653270|12-C/T 100082437|5-G/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.004866151 0.000000000 0.004192854 0.000000000 0.000000000 0.000000000 0.000000000   
## 100017079|68-T/A 100018306|21-T/A 100065207|61-C/A 6651674|58-G/A 6661762|25-C/T 100016541|14-A/T 100019240|64-C/A 100022760|39-A/C 6661631|14-G/T 100015984|25-C/T 100020169|39-T/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100020171|37-C/T 100020514|46-G/A 100093365|13-T/C 6631375|67-A/T 6651160|63-T/G 6651417|40-A/G 6653272|47-T/C 6661637|58-G/T 6661875|62-G/A 100016327|11-G/T 100017411|17-C/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.016127966 0.000000000 0.000000000 0.000000000   
## 100021938|40-C/A 100104022|29-G/C 6653086|61-G/A 6654063|52-T/C 6661270|57-C/T 6661413|37-C/T 6661571|64-G/A 6662928|6-G/T 6665563|11-G/C 100015347|8-A/G 100015697|17-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6630379|34-A/G 6651111|37-G/A 6651135|63-T/A 6652080|40-C/G 6653891|42-G/A 6661255|43-T/G 6661262|56-A/G 6661441|11-A/G 100019678|23-G/T 100065386|6-G/C 100082362|41-C/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.008620528   
## 100119892|9-C/T 6650706|34-C/G 6651084|9-T/C 6652828|42-G/A 6653640|66-C/T 6661213|29-A/C 6661501|61-G/T 100020312|34-A/G 100066078|57-C/T 6651216|56-G/C 6651663|16-T/G   
## 0.000000000 0.004555785 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652291|30-C/A 6661623|16-C/T 6664064|11-C/A 100019069|65-C/T 6629913|31-T/G 6650658|32-T/C 6651643|7-G/A 6651651|36-T/C 6652652|32-C/T 6652781|24-G/A 6652781|64-C/G   
## 0.000000000 0.000000000 0.000000000 0.006733930 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652958|54-G/C 6661185|61-C/T 6661218|12-C/T 6661232|58-C/T 6662683|28-G/C 6662714|21-A/C 6663024|21-C/T 100016570|44-C/T 100017965|14-G/A 100018649|23-G/A 100021210|28-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004866151 0.000000000 0.000000000   
## 100044629|5-T/A 100065997|37-G/A 100066075|25-C/G 100119599|31-T/C 6633592|39-A/T 6650534|49-T/C 6650535|67-A/T 6651337|9-A/G 6653918|11-A/G 6657564|24-C/T 6661126|11-C/T   
## 0.007781982 0.000000000 0.000000000 0.000000000 0.000000000 0.012819979 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6661428|5-C/T 6661666|46-C/T 6661783|8-T/C 6661798|20-C/T 6661798|28-T/C 6661836|10-G/A 6661836|20-G/C 6661863|56-C/T 6662849|35-T/C 6665679|46-T/G 100093359|29-C/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6629858|37-A/T 6643954|6-G/T 6652019|59-G/C 6652746|56-G/T 6652810|45-C/G 6653160|44-G/A 6653239|27-C/T 6653352|54-C/G 6653632|19-G/A 6662822|7-G/A 6664724|62-G/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.008230312   
## 100044710|9-T/G 100093660|28-C/A 6633718|59-C/T 6641748|42-C/A 6658299|7-T/C 6661450|36-G/A 6643586|10-T/G 6643586|9-C/A 6648203|14-A/T 6664350|5-C/T 100106226|9-C/A   
## 0.004157986 0.000000000 0.000000000 0.000000000 0.006514588 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100111464|9-T/C 6643578|11-A/T 6664414|23-C/A 6664432|8-G/T 6643814|11-C/G 6643814|5-G/A 100100648|8-G/T 100103657|7-G/C 100106110|9-A/G 100106239|8-T/G 100109437|5-C/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100109437|9-C/G 100110529|5-C/T 100111487|5-T/G 100122090|8-T/A 6649192|5-T/C 6657874|5-G/C 6658144|18-A/T 6662919|11-A/C 6663018|25-T/C 6664273|5-C/A 6664306|8-C/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6664893|38-G/C 6664910|11-C/G 6665153|7-A/G 100082484|50-G/T 100118470|9-C/T 6664010|54-C/T 100046106|24-G/T 6666102|8-G/A 6657032|15-C/T 6665215|57-C/T 100018359|44-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.068290391 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100023139|68-G/T 6664085|47-C/T 6661211|58-C/T 100066559|31-T/C 6663985|50-C/T 6665628|45-T/C 100097039|23-C/G 6665040|44-A/G 100093411|9-A/C 100093413|26-G/C 6634480|31-T/A   
## 0.000000000 0.000000000 0.018574219 0.000000000 0.005570987 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100065820|27-T/C 100065626|5-A/C 100017456|5-A/C 100065031|12-G/A 100090339|7-T/C 6654096|11-C/A 100045278|30-G/C 6650722|8-G/C 100023932|52-G/T 6661186|27-A/G 100066349|48-C/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.005449551 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6664781|12-G/A 100018124|53-C/G 100064999|21-G/A 100074314|17-G/A 6661474|58-C/G 6664089|39-C/A 100074315|18-C/T 100109510|37-A/G 100106299|29-A/C 6652532|17-A/G 6666146|37-G/A   
## 0.000000000 0.000000000 0.017542486 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100020687|19-G/A 100017102|43-A/G 100016103|11-C/T 100016936|24-G/C 100065009|15-G/C 100021792|22-G/A 100065064|48-C/T 6651486|23-C/A 100022395|5-G/T 6635620|7-T/G 100021158|56-G/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100024001|29-C/A 100065225|30-T/C 100065766|32-C/A 100065871|7-G/C 6657554|17-A/G 100021381|48-A/G 100065073|30-T/C 100065186|6-A/G 100082387|67-G/T 100022890|66-G/A 100023224|41-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100066151|44-C/A 100065712|39-A/G 100016548|22-A/C 100018316|52-G/A 100018669|51-A/G 100020096|10-G/A 100021832|59-T/C 100045940|24-C/A 100066650|24-A/G 100045116|6-C/T 100112452|57-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653883|52-C/G 100021186|32-G/C 100021930|67-G/A 100065300|66-G/T 100082101|62-A/G 100119315|9-G/T 6650840|6-C/G 6664036|6-A/T 100015791|35-A/G 100021993|35-A/T 100065071|26-C/T   
## 0.000000000 0.000000000 0.005934666 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100106305|20-G/C 100020586|49-T/G 100022366|24-T/C 100022982|18-T/C 100102365|9-C/G 100016200|62-T/G 100017620|16-C/T 100018736|57-T/C 100020340|6-T/C 100066082|8-G/T 6663098|31-C/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100018726|57-G/T 100019037|42-G/A 100021366|54-C/T 100022220|45-A/G 100066146|14-T/C 100066266|57-C/G 100066574|19-T/C 100016560|7-T/C 100066037|49-C/G 100121195|35-C/G 100018616|49-T/G   
## 0.000000000 0.000000000 0.008583532 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100066663|58-T/C 100118142|5-T/C 6665806|57-G/A 100018844|30-C/T 100091301|63-G/T 100096922|11-G/T 6651543|26-C/T 100016510|41-T/A 100018353|22-G/T 100019853|68-A/T 100021078|39-A/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100021925|13-A/G 100065479|51-A/G 100066412|14-T/C 100091301|22-C/G 100019195|66-T/A 100023208|34-G/A 100065057|21-C/T 100065426|35-C/A 100073631|7-G/C 100016006|34-T/G 100017176|29-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.005089025   
## 100018612|5-A/C 100020218|34-A/C 100065408|22-T/G 100065476|64-G/A 100065761|7-G/A 6632042|19-G/C 100015587|20-C/A 100016037|24-A/G 100021787|68-A/C 100022942|14-C/G 100066550|58-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004434568 0.000000000 0.000000000   
## 100082539|7-G/A 6650594|30-T/G 6653546|21-T/C 6664281|14-A/T 100016076|49-A/C 100022081|49-G/A 100022274|36-C/A 100116482|57-T/A 100121512|34-G/C 100017777|61-G/A 100064625|41-A/G   
## 0.000000000 0.004106759 0.000000000 0.004228311 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100064874|12-T/C 100106306|45-G/A 100106306|65-G/A 100021587|57-C/T 100065160|65-G/T 100073403|34-A/C 100082633|51-A/G 100097045|48-T/C 6652651|47-T/A 6661761|37-C/T 100017728|53-A/C   
## 0.000000000 0.000000000 0.000000000 0.009661608 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100065286|5-A/C 100082197|10-C/T 6633952|10-G/C 6657904|18-T/C 100065579|38-A/C 6661858|20-C/A 100019471|14-G/A 100044832|16-G/T 100065848|33-G/A 100066117|37-G/T 100112452|34-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6630404|40-A/C 100103994|35-G/T 100017343|6-T/C 100064738|40-C/G 100064746|17-G/A 100074010|27-G/C 6631936|55-T/C 6661620|58-C/G 100016884|51-C/A 100065351|47-C/G 6631698|7-C/G   
## 0.000000000 0.000000000 0.000000000 0.004192854 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652538|34-T/C 6657259|24-G/A 100016745|16-T/C 100065233|43-G/A 6630611|19-A/C 6652270|62-C/G 6652729|29-T/G 100020530|29-C/A 6630408|13-G/T 6630626|34-A/T 6631766|58-C/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6633539|7-G/A 6634322|14-T/G 6652458|12-A/T 6653006|66-G/A 6653115|48-T/A 6663957|45-C/T 100066473|39-A/G 6650554|32-A/G 6657465|23-T/A 6663949|9-G/A 100020033|33-A/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100082315|13-G/A 6629848|65-C/G 6630880|24-C/G 6650849|38-G/A 6650881|15-G/A 6651487|20-C/T 6651826|47-T/A 6652855|33-G/T 6657563|28-T/G 6657811|15-G/A 6658667|25-T/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6662907|9-T/A 6665143|45-A/G 100021831|19-T/A 100045184|5-G/C 100065651|20-A/C 100066434|64-T/A 100066660|33-T/C 6633749|29-T/A 6635481|20-A/G 6650535|47-C/A 6652320|27-G/C   
## 0.000000000 0.000000000 0.000000000 0.006230469 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652796|29-G/C 6654065|42-C/G 6657294|51-C/A 6658085|11-A/G 6661346|29-T/A 6661679|17-C/T 6662799|12-C/A 6662831|22-C/T 6663021|23-A/G 100085932|36-G/C 6630269|58-C/T   
## 0.004555785 0.000000000 0.000000000 0.000000000 0.004395583 0.000000000 0.000000000 0.000000000 0.000000000 0.004750567 0.000000000   
## 6630995|13-C/T 6633153|34-C/T 6644233|38-G/T 6650943|57-C/G 6650961|27-T/G 6651177|55-C/G 6651864|18-T/C 6652465|10-A/T 6652776|7-C/T 6654017|47-C/T 6657683|10-G/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6657925|11-T/C 6658404|12-T/G 6664915|43-G/T 100045721|8-T/A 100082404|10-G/T 100093333|22-G/A 6633054|40-T/A 6642765|20-C/T 6643196|21-C/G 6653359|24-C/T 6658471|31-G/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.004414989 0.000000000 0.000000000 0.000000000 0.004106759   
## 100065416|12-T/C 6661414|26-T/C 6664306|12-G/A 6665409|5-T/A 6642901|10-G/A 100108705|8-G/A 6665151|5-A/T 100122090|6-T/A 6662690|20-C/T 100016003|7-T/A 100016649|43-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100019431|29-C/T 100023959|16-T/C 100024997|62-T/G 100044851|16-G/C 100064658|7-C/T 100064682|49-G/A 100064707|51-G/A 100064714|52-G/A 100064753|29-A/G 100064840|30-G/A 100065000|48-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100065025|5-A/G 100065087|14-G/A 100065157|40-T/G 100065238|55-G/T 100065368|11-G/C 100065400|61-A/G 100065428|33-G/C 100065497|38-G/T 100065538|49-T/G 100065597|12-A/T 100065605|63-C/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100065647|9-T/C 100065669|36-A/C 100065706|45-G/A 100065736|5-A/G 100065739|9-C/T 100065933|35-G/A 100066025|19-T/C 100066134|25-T/C 100066259|18-C/T 100066274|66-A/G 100066332|57-T/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100066410|32-G/A 100066624|60-C/G 100082151|41-C/A 100082232|23-T/G 100082297|57-C/T 100082311|43-C/T 100082409|16-T/A 100082418|7-T/C 100082564|6-T/C 100082633|21-G/A 100086276|23-G/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100086585|5-G/T 100091075|52-C/T 100091130|54-T/C 100093549|30-T/C 100098502|34-A/T 100101042|48-T/G 100121195|12-A/G 100121196|29-T/C 100121197|43-C/G 100121199|47-T/A 100121200|51-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 100122496|35-G/A 6630263|32-T/A 6630513|10-G/C 6631038|8-T/C 6631621|56-C/G 6633643|35-C/T 6634127|43-A/G 6635254|35-A/C 6641856|17-G/T 6642355|17-A/G 6650389|35-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.019997959 0.000000000 0.000000000 0.000000000 0.000000000   
## 6650444|8-A/G 6650519|63-A/G 6650553|61-C/G 6650587|17-C/A 6650591|24-A/G 6650676|68-C/T 6650899|7-G/A 6650902|63-C/T 6650919|10-A/G 6651039|12-G/A 6651054|54-C/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6651207|33-A/G 6651431|65-C/G 6651512|39-C/A 6651635|32-C/T 100065262|63-T/A 6651763|26-G/A 6651874|8-T/A 6651879|12-C/T 6652022|6-C/T 100065511|46-G/C 6652174|20-A/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6652193|50-G/A 6652287|47-C/A 6652538|35-G/A 6652743|25-G/A 100065924|8-G/T 6652898|57-G/T 6653034|66-G/A 6653037|45-C/G 6653161|37-C/T 6653161|51-C/G 6653240|43-A/G   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6653383|7-T/C 6653394|26-G/A 6653420|30-G/T 6653514|60-C/G 6653521|20-A/T 6653525|7-A/G 6653571|21-G/T 6653574|48-G/T 6653793|20-C/T 6653861|28-C/G 6653990|38-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6654094|56-G/T 6654108|11-A/G 6657811|16-C/T 6658021|8-T/G 6658173|44-C/A 6658487|25-C/A 6658616|17-G/T 6661180|50-T/C 6661214|14-C/G 6661229|60-G/A 6661236|33-G/A   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6661487|18-A/G 6661524|9-G/A 6661550|30-T/C 100082471|28-C/T 6661631|29-G/C 100082491|60-C/T 6661651|25-G/A 100082562|68-C/A 6661778|27-A/G 6661827|57-C/G 6661838|61-A/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.010256138 0.000000000   
## 6661845|30-A/G 6662631|42-G/A 6662646|5-A/C 6662657|27-G/A 6662765|9-A/G 6662767|43-T/A 6662797|33-T/C 6663018|35-C/G 6663941|10-G/C 6663953|25-A/G 6663990|56-G/T   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.012738330   
## 6664007|22-C/A 6664018|43-T/C 100091330|60-C/T 6664739|19-C/T 6665051|50-C/A 6665130|20-T/A 6665130|26-T/A 6665131|16-G/T 100109477|22-G/A 6665563|54-C/T 6665566|58-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000   
## 6665567|59-A/G 6665600|6-T/C 6665637|6-G/C 6665638|50-G/C 6665992|26-C/T 6666146|48-T/C   
## 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000 0.000000000

names(div)

## [1] "N" "pop.eff" "loc.n.all" "pop.nall" "NA.perc" "Hobs" "Hexp"

par(mfrow = c(2, 2))  
plot(div$pop.eff, div$pop.nall, xlab = "Colonies sample size", ylab = "Number of alleles", main = "Alleles numbers and sample sizes", type = "n")  
text(div$pop.eff, div$pop.nall, lab = names(div$pop.eff))  
barplot(div$loc.n.all, ylab = "Number of alleles", main ="Number of alleles per locus")  
barplot(div$Hexp - div$Hobs, main = "Heterozygosity: expected-observed",ylab = "Hexp - Hobs")  
barplot(div$pop.eff, main = "Sample sizes per population", ylab = "Number of genotypes", las = 3)



plot(div$Hobs, xlab="Loci number", ylab="Observed Heterozygosity",main="Observed heterozygosity per locus")  
  
nAll(gi) # Number of alleles per locus

## 6661549|60-C/T 6650588|15-C/T 6661794|21-A/G 6664081|63-G/A 6653885|30-A/G 6661177|64-C/T 6661457|52-C/T 6653401|39-G/A 6657572|30-T/A 6661566|34-A/G 6663962|65-C/T   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6665217|18-A/G 6661207|60-A/C 6661398|51-C/T 6651899|27-T/A 6653020|28-A/C 6653704|64-T/G 6650504|59-T/C 6652003|38-G/C 6661105|11-G/T 6661432|29-C/A 6652162|44-A/T   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6653798|57-C/T 6653191|40-A/G 6664876|31-G/A 6661163|31-T/C 6652675|16-G/T 6652288|45-C/T 6650933|66-G/A 6653948|58-T/C 6663083|49-G/A 6662726|45-A/G 6664756|9-C/T   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6661688|18-A/G 6666128|43-C/G 6652433|13-A/G 6652352|5-T/C 6664270|14-C/A 6651416|17-C/T 6664751|11-T/A 6657734|47-A/G 6663081|18-A/G 6651148|64-A/T 6656916|22-T/C   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6653573|49-T/C 6661198|22-T/G 6665027|17-A/T 6664900|6-C/T 6650826|66-G/A 6653766|40-A/C 6665588|8-C/T 6652573|8-C/A 6652700|14-C/G 6664334|9-A/G 6651772|17-A/T   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6651828|36-G/A 6650476|13-A/C 6651474|15-T/C 6652836|30-C/T 6653346|25-C/A 6658563|22-C/T 6661870|10-G/T 6657169|37-T/C 6661569|7-A/G 6652342|46-G/A 6656937|18-C/T   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6661537|56-G/A 6664008|14-G/A 6651473|53-G/A 6661884|29-T/A 6662691|24-C/T 6661181|61-C/T 6651798|39-C/A 6661610|46-T/C 6653512|60-C/G 6651413|19-C/A 6651436|18-C/T   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6663093|22-C/A 6652854|20-T/C 6657907|22-C/T 6664719|5-A/G 6651857|34-G/T 6658182|11-G/A 6661203|33-G/T 100066381|65-T/C 6661291|28-A/C 6651404|67-A/G 6661583|6-T/C   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6653019|13-C/T 6661633|39-G/T 6653539|14-G/C 6652507|49-A/G 6662661|7-T/C 6661859|57-A/G 6661395|60-C/T 6661690|43-G/A 6653303|26-C/T 6650697|6-C/A 6661748|26-C/T   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6661276|34-A/G 6651590|59-C/G 6661435|48-G/A 6664012|53-A/G 6651071|8-C/T 6661174|27-G/A 6657901|34-G/A 6661288|56-T/C 6664895|15-G/A 6665065|54-A/G 6653483|52-C/T   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6652822|57-G/A 100065688|55-A/G 6661405|37-G/T 6661817|33-A/G 6651443|47-G/T 6651921|15-T/A 6654090|16-G/A 6653899|53-A/G 6661211|62-G/A 6652984|32-G/A 6661495|42-T/C   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6650679|43-C/T 6661246|33-G/A 6653043|54-C/G 6651254|12-A/T 6653789|32-G/T 6650988|24-G/A 6650862|68-C/A 6653541|8-A/G 6662900|30-G/A 6653618|37-G/A 6664721|14-C/T   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6652395|48-C/T 6661842|33-T/A 6661739|54-G/A 6652644|26-G/A 6652332|20-T/C 6651976|25-G/A 6661113|14-C/T 6661301|20-G/A 6662986|27-C/T 6653529|7-G/A 6651972|24-A/G   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6652901|58-C/T 6653167|32-C/T 6652763|59-G/A 6651610|56-G/C 6661486|27-C/T 6664344|37-A/G 6661743|17-G/A 6651212|18-A/G 6651054|64-T/A 6653313|42-A/G 6652640|45-C/A   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6653127|48-G/A 6652179|62-G/A 6664422|18-A/G 6661732|8-C/T 6658587|26-G/A 6661161|53-A/C 6657089|25-C/T 6650998|9-A/T 6652379|23-G/C 6652823|50-C/A 6653209|28-G/C   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6664750|24-C/T 6666098|18-G/A 6664416|28-A/G 6661208|26-A/T 100017494|26-T/C 6657426|10-G/T 6650467|17-T/C 6661591|23-T/C 6661615|53-A/G 6651689|52-C/T 100093282|6-C/T   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6651044|31-C/T 6663926|8-G/A 6661122|39-C/T 6653015|45-G/T 6651960|46-A/G 6658395|10-A/G 6664288|7-C/G 6651937|12-G/T 6661119|32-T/C 6653567|68-C/T 6657105|21-A/G   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6653958|12-C/T 6664417|17-G/A 6653929|22-G/A 6653560|40-C/T 6651307|58-C/T 6651918|7-T/C 6652335|27-T/C 6652403|61-A/C 6661676|25-C/T 6657686|15-A/G 6661180|15-G/A   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6664065|56-A/T 6662654|14-C/T 6661258|19-T/G 6661326|21-G/T 6661503|51-G/A 6665677|54-T/C 6651345|67-A/G 6653158|39-C/T 6661434|33-C/T 6650700|61-G/A 6665573|50-G/T   
## 2 2 2 2 2 2 2 2 2 2 2   
## 100103686|15-C/T 6661407|28-A/T 6662956|24-T/G 6653198|44-C/T 100119886|12-A/G 6653976|22-T/C 6661123|44-T/C 6661423|44-C/T 6661694|9-T/C 6653208|48-G/A 6661587|35-T/C   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6653932|10-C/T 6657861|14-G/A 6664287|35-C/T 6653108|33-A/G 6650863|33-C/T 6653166|35-T/C 6652001|24-A/G 6657913|25-C/G 100109898|15-G/A 6661240|65-T/A 6661268|13-G/A   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6653580|43-G/T 6657145|22-C/A 6661660|20-C/T 6652645|41-C/T 6651100|28-C/T 6661548|20-A/G 6657725|32-C/T 6652908|9-A/T 6661838|60-T/G 6652562|28-G/A 6654077|33-C/T   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6661761|38-G/A 6658102|52-C/T 6657350|31-T/A 6651178|33-C/T 6661253|38-T/C 100104030|16-C/A 6664895|24-C/A 6653522|21-A/G 6661899|11-A/G 6650883|48-C/T 6661607|53-C/G   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6654004|30-T/A 6653722|5-T/G 6654003|26-C/A 6652045|5-C/T 6658305|27-T/C 6657714|46-T/C 6661603|40-G/C 6650949|5-A/T 6664725|29-A/G 6657697|38-A/G 6661471|62-C/G   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6661765|40-G/A 6661481|66-A/C 6653282|53-T/C 6652110|26-C/T 6652196|51-C/T 6652944|56-G/A 6658191|17-C/G 6661286|15-G/A 6653684|7-T/C 6653203|66-A/G 6661751|44-T/G   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6661711|66-G/A 6650674|36-C/T 6653554|14-G/A 6651804|55-G/C 6664076|29-C/A 6663980|50-G/A 100102214|5-C/T 6653379|50-A/G 6651865|33-T/G 6661260|22-A/T 6651954|62-T/C   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6656942|42-G/A 6652635|57-G/A 6661149|41-C/T 6650632|65-G/A 6650568|31-G/C 6650938|6-C/T 6658511|21-A/C 6654094|65-T/C 6653106|31-C/T 6661381|44-A/G 6652779|66-A/G   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6650898|47-G/A 6657805|7-A/G 6661727|46-C/T 6662592|9-C/T 6661085|13-C/T 6661239|45-A/G 6665990|9-G/C 6650977|39-G/A 6652000|22-C/T 6658391|30-C/T 6661184|41-C/G   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6651519|67-C/G 6652011|54-C/T 6661376|29-C/T 6650669|9-A/G 100073501|45-A/G 6651742|50-G/A 6653416|29-C/T 6661643|49-G/A 6650635|62-G/A 6651529|9-C/T 6652878|58-G/T   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6665222|67-C/A 6661481|18-C/T 6665990|48-C/G 6661216|67-C/T 6663955|62-T/C 6652246|10-G/A 6661167|12-T/A 6661710|53-G/A 6664085|17-G/T 6661652|62-A/C 6657045|15-A/G   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6661805|6-C/G 6652339|26-G/T 6661277|47-G/A 6661335|49-T/G 6652597|28-C/T 6661737|51-G/T 6664079|62-A/T 6661334|49-G/T 6661187|52-C/T 6653800|24-G/A 6665242|22-G/A   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6651247|35-C/G 6653693|39-C/A 6661436|12-T/C 6650629|61-C/A 6653328|49-C/T 6650603|26-A/G 6651494|48-G/A 6652060|23-C/T 6657933|10-C/T 6651038|40-T/C 6664362|28-C/T   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6651571|67-C/T 6664050|15-A/G 6652084|30-C/T 6661846|32-C/T 6653638|33-A/C 6657305|12-A/C 6663909|36-C/T 6661305|58-A/G 6657606|35-G/A 6661206|19-A/C 6657339|6-G/A   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6657292|22-T/A 6661485|59-A/G 6650475|43-C/T 6652083|41-G/A 6663998|25-T/C 6661115|22-T/G 100102214|35-G/A 6651822|26-T/C 6653698|49-A/T 6651072|34-A/C 6661221|40-G/A   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6664084|45-C/T 6664046|47-A/G 6664412|13-G/A 6652764|38-C/T 6652859|41-C/T 6662842|43-C/T 6653459|28-T/C 6652467|20-G/T 6658444|32-T/G 6663948|54-G/A 6661848|65-T/G   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6661692|19-C/T 6661666|47-C/A 6657189|5-T/A 6663931|25-C/T 6661747|23-A/G 6664777|21-T/G 6657196|41-G/A 6662626|20-G/C 6661431|59-G/A 6651183|67-C/T 100020564|19-A/G   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6658409|20-A/C 6661097|28-C/T 6657230|7-A/G 6661119|56-G/A 6661554|36-A/G 6650618|9-G/C 6653999|19-C/T 6663991|5-C/T 6652381|42-A/T 6651915|13-C/T 6662884|19-C/T   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6664330|6-A/G 6658057|21-T/G 6664271|29-T/G 6658345|31-A/G 6664281|18-T/A 6651466|33-G/A 6651085|26-C/T 6653605|24-T/C 100044679|44-A/G 100115090|8-A/G 6661464|30-G/T   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6650884|45-C/T 6661861|5-T/C 6651870|51-T/C 6650549|15-C/T 6662909|15-A/C 6661345|10-T/C 100096951|40-T/A 6651934|39-C/A 6653561|20-A/G 6663982|40-G/A 6661677|22-C/T   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6661705|29-C/G 6661413|63-C/T 100065757|18-C/G 6661266|30-A/G 6661310|64-T/C 6661349|63-A/G 100116458|50-G/A 6665749|7-G/A 6652731|67-C/G 6653078|31-C/T 6653889|13-C/T   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6650390|62-T/A 6665512|36-G/A 6653694|33-C/T 6661130|57-A/C 6650397|43-A/G 6652725|65-G/A 6664898|31-T/A 6664740|45-G/A 6661717|60-G/A 6661866|27-T/C 6661803|57-G/C   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6653812|35-T/C 6653634|39-G/A 6653421|13-A/G 6653117|34-C/G 6652078|22-T/A 6663918|8-C/G 6651738|38-G/C 100073717|6-G/A 6662614|36-C/T 6663009|7-C/T 6665630|52-T/C   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6661118|33-G/A 6651890|7-G/A 6650967|42-C/A 6661605|18-C/T 6651286|19-T/A 6653631|43-C/T 6661436|18-C/T 6661386|46-C/T 6656991|15-A/G 6658489|9-C/T 100018527|6-C/T   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6663957|56-G/A 6653138|31-G/A 6653361|55-G/A 6662597|30-A/G 6653013|37-T/C 6664770|35-T/G 100018912|62-G/T 6650463|42-T/A 6664775|59-A/G 6651694|29-A/T 6664064|49-A/G   
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## 6652918|18-G/A 6651840|35-G/A 6651055|13-G/A 6653477|22-A/T 6661719|26-T/A 6661828|67-T/A 6654030|47-G/A 6665066|58-G/C 6653260|47-G/T 6650860|49-G/A 6654039|20-G/A   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6665336|52-C/T 6650985|20-G/A 6665243|28-G/C 6662888|44-A/C 6665236|63-T/C 6663983|17-C/T 100066027|14-A/T 6653607|5-T/C 6661170|39-C/T 6661781|60-G/A 100073694|44-G/A   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6663947|55-T/C 6661831|54-T/C 6652266|47-T/C 6663080|20-G/A 6665672|66-T/A 6658491|28-C/A 6661680|19-G/T 6662595|39-C/T 6665990|6-A/T 6657377|47-C/T 6661828|68-T/A   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6651958|27-A/G 6653919|17-C/T 100021874|46-A/G 100016068|62-T/A 6665489|31-C/T 100082278|57-C/T 6651291|51-G/T 6653890|21-C/T 6663954|56-C/A 100021943|40-T/C 6652214|62-T/A   
## 2 2 2 2 2 2 2 2 2 2 2   
## 100022950|33-A/C 6651253|68-C/T 6650643|36-C/A 6652860|42-G/A 6664014|62-G/A 6661808|48-C/T 6658138|27-A/C 100017513|60-C/T 6661261|32-C/T 6652821|67-C/T 6666304|10-A/T   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6665455|61-G/T 100082682|51-T/C 6653384|6-A/G 100023325|25-A/G 100101067|36-C/T 6651685|49-T/A 6653586|60-T/C 6666177|13-A/T 6652540|8-G/T 6651209|49-A/G 100066244|11-A/T   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6652377|20-G/A 6661200|23-T/G 100064741|45-G/C 6658040|18-T/A 6653702|48-T/C 6652310|50-C/T 100080867|16-C/T 6665067|64-C/A 6653076|28-C/T 6653648|6-G/A 6651991|67-A/T   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6661634|15-T/G 6664050|24-G/C 6652868|58-A/G 6661564|13-A/G 6650547|43-C/G 100064827|8-G/C 6650552|61-G/A 6661602|25-T/C 6661456|61-G/A 6651197|66-T/A 6652994|27-C/T   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6661887|13-A/T 6661310|58-T/C 6650745|19-T/G 100017712|8-T/A 6651911|52-G/A 6650417|11-A/C 6652308|53-T/G 6661174|36-C/T 6651243|32-G/A 6662595|43-G/A 6661238|17-G/T   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6653091|46-C/G 6651733|50-G/A 6661209|58-G/A 6662998|47-T/C 6650989|12-C/T 6661260|32-A/C 6664754|18-T/C 6653705|22-C/A 6651897|14-A/G 6661468|27-G/A 6662877|32-C/T   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6652769|52-G/A 6657468|35-T/C 6664040|37-G/T 6654036|20-C/G 6652581|49-T/C 6663926|28-C/T 6650558|18-A/C 6650767|11-C/T 6650470|54-G/A 6652008|64-T/A 100066158|21-G/A   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6661900|39-T/C 100022191|13-A/T 6665045|39-A/T 6652766|56-A/G 6652767|24-T/A 6651271|49-G/A 6661314|26-G/A 6653619|65-T/C 100116986|5-T/C 100116987|6-T/G 6653081|42-A/G   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6664720|40-A/G 6652605|24-T/C 6661530|52-T/G 6653380|28-A/G 6661534|38-G/A 100100705|17-C/A 6661784|26-C/G 6653485|62-T/C 6658269|15-G/A 6657310|18-C/G 6653319|56-C/A   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6662895|13-G/A 6650569|12-C/A 100018011|33-A/T 6653025|64-G/A 100020592|58-C/G 6651157|23-G/A 6652995|7-T/C 6664385|5-T/G 100080823|15-G/A 100098565|15-A/G 6662594|6-A/G   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6662608|14-T/C 100111015|17-T/A 6651630|13-G/A 100015677|15-G/A 100021199|37-T/C 6651723|7-T/C 6651946|25-T/C 6652107|59-C/T 6662703|23-A/G 6656926|24-G/A 6662639|8-G/T   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6644134|13-A/C 100015999|30-C/T 6651264|67-C/T 100082192|45-T/C 6658187|20-A/G 6658030|16-T/G 6664447|43-A/G 6657081|38-A/G 6657519|27-C/A 6657646|21-G/A 6658294|22-A/G   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6663106|39-T/C 6665877|8-T/C 6657134|12-C/T 6662930|5-G/T 100073664|24-C/A 100093267|33-A/T 6665045|33-A/T 6653064|39-T/C 6652028|11-T/C 6652053|54-A/G 6661327|40-C/T   
## 2 2 2 2 2 2 2 2 2 2 2   
## 100020810|55-A/G 6661141|23-C/T 100018274|35-A/G 100020489|64-T/C 100021048|30-T/C 100021494|48-T/C 100015195|36-C/T 6652099|5-C/T 100019298|65-T/C 100020731|53-A/G 100065190|44-T/C   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6651997|59-A/G 6658436|20-C/T 6650975|51-G/A 6657565|7-G/A 6658077|34-T/C 6652620|41-C/T 6657312|42-G/A 6657368|39-G/A 6657412|9-T/G 6657526|48-C/T 6658588|11-C/T   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6662668|7-A/T 6662868|15-G/A 6663029|17-G/A 6664446|24-T/C 100086116|7-C/A 100093344|14-G/C 100098451|30-G/T 100104877|27-G/A 6656935|13-T/G 6657240|11-C/T 6657387|17-A/T   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6658126|24-C/G 6662893|11-C/G 100098564|20-T/C 100108662|16-G/A 100090375|13-A/C 6654111|67-T/C 100018022|29-C/T 100018793|30-G/A 100019919|22-G/A 100020224|39-A/G 100021950|26-G/A   
## 2 2 2 2 2 2 2 2 2 2 2   
## 100065898|33-G/A 100016342|65-A/G 6653141|47-T/A 100020182|5-A/G 100017739|16-A/G 100019425|22-T/C 100019993|60-T/C 100020111|24-T/C 100022090|7-C/A 100020509|41-C/T 100019969|57-T/C   
## 2 2 2 2 2 2 2 2 2 2 2   
## 100021750|68-T/G 6650682|7-C/T 100073640|6-A/G 6658242|13-G/A 6661085|49-C/T 6650645|14-C/G 100022464|43-T/A 100065437|41-T/C 6652497|42-C/A 6653265|58-G/C 6653475|24-G/A   
## 2 2 2 2 2 2 2 2 2 2 2   
## 100021941|30-C/T 6658496|17-G/A 6661755|16-A/C 6661423|60-C/T 100015613|67-G/A 6652888|64-A/G 6657111|13-T/C 6658119|34-T/A 6661367|26-G/T 100111976|26-A/G 100016385|11-T/C   
## 2 2 2 2 2 2 2 2 2 2 2   
## 100073644|37-C/T 6650454|46-A/G 6650627|13-T/C 6651042|67-C/T 6652424|44-T/C 6653438|30-C/T 6653954|43-A/G 6657314|43-G/A 6657355|38-G/A 6657359|15-A/G 6657460|29-G/A   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6657482|8-A/G 6657781|17-C/A 6661090|62-A/T 6661394|35-A/G 6662671|17-A/G 6662872|17-G/T 6663077|27-G/T 100080773|11-T/C 6650529|9-A/G 6651847|21-G/A 6652313|42-C/T   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6656897|6-A/T 6657147|18-G/A 6657176|29-T/G 6657326|12-G/A 6657353|6-A/G 6657411|13-G/A 6657545|31-T/C 6657603|29-G/A 6657689|26-G/A 6657743|8-C/G 6657998|8-A/G   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6658208|29-C/T 6658287|13-A/G 6658348|17-A/T 6658475|20-C/A 6658498|16-G/A 6658580|46-G/C 6661448|44-G/T 6661799|23-C/T 6662617|41-T/G 6662633|33-G/C 6662813|9-G/T   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6662843|9-A/G 6662968|7-T/C 6662976|12-A/C 6664360|25-T/C 6664442|16-C/T 6664875|15-A/G 100021224|39-C/T 100073899|13-T/C 100098800|29-G/T 100100663|9-T/A 6650431|37-G/A   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6656974|5-A/T 6657112|32-C/T 6657945|33-T/A 6658433|38-T/A 6664304|20-G/T 6664309|9-T/C 100116189|14-C/A 100045177|15-A/G 100073820|20-A/G 100086048|24-A/T 100098455|12-T/G   
## 2 2 2 2 2 2 2 2 2 2 2   
## 100098486|16-T/A 100098772|34-A/T 100112391|7-C/G 6651055|18-T/C 100086270|5-G/C 100112446|22-G/C 6661857|31-C/T 6658676|11-C/G 100016220|5-A/G 100021127|7-A/G 6665873|25-A/G   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6654134|52-T/A 100016595|6-G/A 100021410|63-C/T 100023315|21-T/C 6653760|49-C/A 100021585|32-T/G 100023219|12-A/G 6658683|43-C/T 100064732|20-A/G 100016355|33-T/C 100019393|16-C/T   
## 2 2 2 2 2 2 2 2 2 2 2   
## 100020119|15-A/G 100022894|28-G/A 100082537|56-C/T 100016273|19-A/G 100023327|12-C/T 100015858|19-C/T 100022410|6-G/A 100017258|51-G/T 100019095|48-C/T 100020063|20-G/A 100015954|31-A/G   
## 2 2 2 2 2 2 2 2 2 2 2   
## 100021964|13-G/C 100085852|36-T/C 6651226|18-G/C 100021819|62-A/C 100022277|8-T/G 100064827|60-G/T 100018209|24-G/C 100022569|31-G/A 6653298|40-A/G 100015576|20-G/A 100016155|45-A/G   
## 2 2 2 2 2 2 2 2 2 2 2   
## 100018361|5-C/T 100018644|13-A/G 100065285|54-G/A 100066085|48-C/G 100066350|63-A/G 100082653|31-C/G 100019242|15-T/C 100065918|65-C/T 100082574|16-T/C 100112503|22-T/C 6651116|23-G/A   
## 2 2 2 2 2 1 2 1 2 2 1   
## 6664424|11-C/T 100017539|66-C/A 100019104|53-C/T 100020067|42-A/C 100020868|41-A/G 100064882|50-T/C 6658317|12-A/T 6661605|7-T/C 6664288|12-C/T 100016786|17-G/A 100020956|6-T/C   
## 2 2 2 2 2 2 2 1 2 2 1   
## 100016197|32-C/T 100017640|9-C/G 100018738|55-G/T 6651375|43-G/A 6651394|40-A/T 6657692|30-G/C 6661438|21-G/A 100015230|14-A/T 100015429|54-A/G 100016348|67-T/C 100022665|32-G/A   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6650646|12-A/G 6651058|8-C/T 6652871|25-G/T 6653284|49-A/G 100020780|47-T/C 100082291|18-C/T 6657270|16-C/A 6658306|32-A/G 6663971|20-C/T 100018785|45-G/A 100019578|24-A/G   
## 1 2 2 2 2 2 2 2 2 2 2   
## 100021429|16-A/G 6651301|13-T/C 6653801|25-T/C 6662791|9-T/C 6665675|15-G/A 6665677|34-G/A 6651053|25-C/T 6651062|23-G/C 6657266|49-A/G 6661781|11-G/A 6662884|20-G/A   
## 2 2 1 2 2 2 2 2 2 1 2   
## 6661633|24-T/C 100064957|57-C/G 6650480|42-G/T 6651168|20-T/C 6651202|6-G/T 6651669|51-A/T 6651901|52-A/G 6652133|6-G/A 6652277|34-G/T 6652429|23-C/A 6652852|41-C/T   
## 1 2 2 2 2 2 2 2 2 1 2   
## 6653859|66-G/C 6657107|30-C/T 6657341|14-T/G 6657827|41-T/C 6657863|36-T/C 6657972|11-T/G 6658332|28-G/A 6661576|17-T/C 6662852|8-G/C 6665753|18-G/A 6665974|16-T/A   
## 1 2 1 2 2 2 2 1 1 2 2   
## 6665974|39-G/C 100022319|61-G/T 100066473|44-C/T 6650457|59-C/T 6650512|39-G/A 6650541|48-T/C 6650816|44-C/T 6651070|58-A/C 6651408|58-C/G 6651681|14-C/T 6651690|41-A/G   
## 2 2 2 2 2 1 2 1 2 1 1   
## 6651751|52-A/G 6651951|29-T/C 6652480|24-G/A 6652536|25-A/G 6653136|38-A/G 6653193|66-G/C 6653366|47-T/C 6653406|51-T/C 6653654|13-A/G 6653743|54-T/C 6653795|65-G/T   
## 2 2 2 2 2 2 2 2 1 2 2   
## 6656968|20-T/C 6657138|49-C/T 6657141|6-G/A 6657590|27-T/C 6657970|16-C/G 6658518|17-G/A 6658664|15-C/A 6661383|36-A/G 6661406|53-T/C 6661709|47-A/C 6661820|30-C/T   
## 2 2 2 2 1 2 2 2 1 2 2   
## 6661892|24-C/T 6662654|9-C/A 6662663|5-A/T 6663104|29-A/G 6664717|21-A/G 6665800|40-A/C 6665804|30-T/C 100018586|15-A/G 100045576|29-G/A 100064632|55-G/A 100124805|23-T/C   
## 2 2 1 2 2 1 2 2 2 2 1   
## 6650420|21-G/A 6650787|62-C/A 6650795|22-T/C 6651016|52-G/A 6651805|15-A/G 6652208|23-C/T 6652257|65-G/T 6652383|57-G/C 6652388|11-A/G 6652788|54-A/G 6652943|57-G/A   
## 2 1 2 2 1 2 2 1 1 1 1   
## 6653199|35-A/C 6653447|32-A/G 6653467|25-G/A 6653565|10-G/C 6653569|24-A/T 6654084|42-A/G 6656901|37-A/C 6656919|48-T/A 6656965|28-C/T 6657179|25-G/A 6657434|21-C/A   
## 2 2 2 1 2 2 1 2 2 2 2   
## 6657454|17-T/C 6657477|8-A/G 6657523|10-C/T 6657578|8-C/T 6657628|10-A/G 6657698|41-A/G 6657753|24-G/A 6657784|15-C/G 6657818|27-A/G 6657821|26-T/C 6657854|14-G/A   
## 1 2 2 2 2 2 1 2 2 2 2   
## 6657918|33-T/A 6657923|13-T/C 6657975|18-C/G 6658063|26-T/C 6658152|11-T/C 6658175|49-T/C 6658353|18-G/T 6658417|35-C/A 6658431|14-A/G 6658485|8-A/G 6658531|35-G/A   
## 2 2 2 2 2 2 2 2 2 1 2   
## 6661099|20-G/A 6661250|41-T/C 6661252|5-A/G 6661823|31-T/C 6661826|50-T/A 6661853|33-G/A 6662682|18-G/C 6662708|45-C/A 6662717|10-T/A 6662720|17-G/A 6663956|7-C/T   
## 2 2 2 2 2 2 2 2 2 2 2   
## 6664324|31-T/C 6664897|36-T/G 6664904|21-A/G 6665135|35-C/T 6665977|58-C/T 100062054|9-T/G 100066053|65-C/G 100073867|18-T/C 100098449|11-T/C 100102329|39-G/C 100104849|27-A/C   
## 1 2 2 2 2 1 1 2 2 2 2   
## 100118311|8-T/G 6651728|12-T/C 6651869|31-G/A 6651992|39-T/C 6652070|15-A/G 6652698|58-A/G 6653498|29-C/G 6656984|39-A/T 6656988|16-A/T 6657054|5-A/G 6657255|43-C/T   
## 1 2 1 1 2 2 2 2 2 2 2   
## 6657257|18-T/G 6657264|21-A/C 6657486|25-A/G 6657731|27-T/C 6657762|30-T/G 6658275|5-T/C 6658351|8-T/A 6658356|40-T/A 6662713|37-C/T 6662735|7-T/C 6662802|35-T/C   
## 2 2 2 2 2 2 2 1 2 2 1   
## 6664285|14-G/T 6664286|5-A/G 6664411|22-G/A 100116189|12-G/A 100020566|50-G/A 100073416|9-G/C 100073555|13-T/C 100073946|24-C/A 100082262|34-C/T 100082279|42-T/G 100093533|7-G/T   
## 2 2 2 2 2 2 1 2 2 1 2   
## 100093556|10-T/A 100093571|9-A/T 100093658|5-T/C 100102354|38-T/G 100102368|8-T/C 100108745|39-G/C 100124806|24-A/G 6652013|36-G/A 100019613|42-A/G 6653942|18-C/G 100021748|48-G/A   
## 2 2 2 2 2 2 1 2 2 1 2   
## 100022307|64-C/T 6661279|61-A/G 100016043|65-A/G 100021551|26-C/G 6651509|9-T/C 100015681|31-G/A 100022444|19-C/T 100065978|51-A/C 100015971|32-G/A 100018341|11-C/T 100018791|30-T/A   
## 2 2 2 1 1 2 2 1 2 2 2   
## 100021444|27-G/T 6651402|31-T/C 6652371|36-A/G 100016955|21-T/C 100017267|60-T/C 100017271|28-T/A 100017633|14-G/T 100018216|18-C/T 100018585|65-G/A 100018930|7-A/G 100019458|6-T/C   
## 2 2 1 2 1 2 2 2 1 2 2   
## 100020508|64-T/C 100021998|13-T/C 100065288|30-C/T 6657675|5-C/T 100018006|38-A/G 100018907|18-T/C 100018908|67-C/T 100019522|42-C/T 100021552|23-G/T 100021990|59-T/C 100066166|11-T/A   
## 2 2 1 2 2 2 2 2 2 2 2   
## 6651977|40-G/C 6661494|35-T/C 6661600|20-T/C 100023675|41-A/G 100064707|39-C/T 100066332|9-G/A 100111975|14-G/C 100015765|23-G/A 100017875|29-A/G 100019456|25-T/C 100019962|30-A/G   
## 1 1 1 2 2 2 2 2 2 2 2   
## 100020185|57-C/A 100020870|33-C/G 100021266|13-G/A 6651172|33-A/G 100015703|20-A/G 6653988|60-A/T 100018373|30-C/T 100020483|16-G/A 100022388|34-C/T 100022854|43-G/T 100023104|56-C/T   
## 2 2 2 2 2 2 2 2 2 2 1   
## 100023409|22-T/C 100086339|36-T/G 6651925|23-G/C 100120327|18-G/A 100120327|6-G/A 100016290|59-A/C 100020594|60-T/A 100022242|47-G/T 100022320|10-T/C 100022502|23-T/A 6651745|39-T/C   
## 2 2 1 1 2 2 2 1 2 2 2   
## 6661848|25-T/G 100016236|36-G/T 100016349|39-A/G 100016910|15-T/A 100020122|19-C/G 100021092|17-T/C 100022165|12-A/G 100023470|59-G/A 6661692|56-G/A 100016458|65-C/G 100018964|48-T/G   
## 2 2 2 2 2 2 2 2 1 1 1   
## 100021554|25-A/G 100023185|19-T/G 6650701|18-A/G 6652394|37-T/C 6653506|13-T/A 6664058|35-C/T 100016479|45-A/T 100017508|19-C/G 100018962|16-T/C 100022682|11-A/T 100066335|57-A/T   
## 2 1 2 1 1 1 1 1 2 1 1   
## 100082668|8-A/T 6658494|15-A/G 100015625|54-A/G 100016249|62-A/C 100016393|18-A/T 100016660|55-C/T 100017075|58-G/A 100017124|8-A/G 100017541|11-T/A 100018026|11-T/C 100019630|31-T/C   
## 2 2 1 2 2 2 2 2 2 2 1   
## 100019855|44-T/C 100019873|44-G/A 100019915|44-G/T 100022465|65-C/G 100022648|51-G/A 100044512|21-C/T 6650696|57-G/A 6653452|20-G/A 100015340|55-T/G 100017500|23-A/C 100020588|47-C/A   
## 2 1 1 1 2 2 2 1 2 2 1   
## 100022422|51-G/T 100022425|5-T/C 100023388|34-C/A 100023484|57-G/A 100023525|29-A/G 100064648|32-T/C 100065646|5-C/A 100073396|12-C/T 100073814|33-T/C 6650655|58-G/A 6651105|51-A/C   
## 1 2 1 2 2 2 2 1 2 1 1   
## 6651192|9-A/G 6652274|53-T/C 6652608|18-G/C 6652649|33-C/G 6653266|5-T/A 6661462|57-A/G 100016352|41-C/T 100016515|37-T/A 100016629|18-T/C 100017186|6-T/C 100018441|46-A/T   
## 1 1 2 1 1 1 1 1 2 2 2   
## 100019819|59-T/G 100021768|16-G/T 100022658|14-G/A 100022749|22-C/T 100023505|21-C/G 100064613|60-T/C 6650443|20-C/T 6650647|27-A/C 6650672|16-T/C 6650875|47-G/A 6652044|30-A/G   
## 2 2 2 1 2 2 1 1 2 2 1   
## 6652814|39-C/T 6653050|59-G/T 6653245|23-A/G 6653382|37-T/C 100015237|28-T/A 100016165|7-G/A 100017157|49-G/A 100017486|22-T/G 100019175|10-C/G 100019665|26-G/A 100020841|64-T/C   
## 1 1 2 1 1 2 2 2 1 2 2   
## 100120329|23-A/G 6650705|36-C/T 6651136|7-G/C 6651295|17-C/T 6651888|7-A/G 6652092|41-A/G 6652390|29-T/C 6653344|40-A/G 100017290|62-G/T 100017981|57-C/T 100018180|55-T/C   
## 2 1 1 1 1 2 1 1 1 1 2   
## 100018460|39-T/G 100018667|65-G/A 100019573|61-A/C 100020403|29-G/T 100023540|56-T/G 100065318|8-A/G 100066600|5-T/C 100066622|14-T/C 100086014|36-T/C 100098840|27-G/A 6650711|25-C/A   
## 2 2 1 2 1 1 1 2 2 2 1   
## 6651249|51-G/C 6653001|20-G/A 6653114|14-T/A 6653811|17-T/C 6661187|29-A/C 100015694|44-A/T 100016554|8-A/G 100017386|12-G/A 100017844|43-G/A 100020562|42-C/G 100021051|67-G/T   
## 1 1 2 1 1 2 2 2 2 1 2   
## 100065266|5-T/C 6650693|44-C/T 6651276|7-A/G 6651724|68-A/G 6652175|66-T/C 6652356|17-A/G 6653008|30-C/G 6653473|47-C/T 6653869|47-T/G 6654016|14-A/G 6664729|22-C/T   
## 1 1 2 1 2 2 1 1 1 1 2   
## 6661750|65-G/A 100016089|30-C/T 100017364|16-A/G 100017568|38-A/G 100017636|20-G/A 100018230|62-T/C 100020647|25-G/A 100023048|6-T/C 100023313|65-G/T 100023842|66-T/C 6650662|57-T/A   
## 1 1 1 2 2 1 2 2 2 2 1   
## 6650857|56-T/C 6650871|15-T/G 6652354|41-T/G 6652712|18-A/G 6652897|32-G/A 6653119|17-A/G 6653277|45-G/C 6653413|34-C/T 6653686|19-A/G 6653906|8-T/C 6656936|12-G/A   
## 1 1 2 1 2 2 1 1 1 1 2   
## 6658216|16-T/C 6661637|61-A/T 6664071|59-C/T 6652420|13-T/G 100017654|43-G/C 100021742|38-C/A 100044665|10-T/G 100064985|48-C/T 100065246|12-A/G 100066557|28-C/T 100082397|38-C/A   
## 1 1 1 1 2 1 2 1 2 1 1   
## 6650620|8-A/G 6650692|56-G/A 6650978|6-G/A 6651221|15-T/C 6651235|33-A/G 6651703|33-T/C 6651891|44-T/C 6652170|11-A/G 6652463|46-A/C 6652496|43-C/T 6653226|65-A/G   
## 1 2 2 1 1 1 1 2 2 1 1   
## 6653778|39-T/A 6654074|20-G/T 6658572|16-A/G 6661139|49-C/A 6661309|12-G/A 6661345|40-C/G 6662659|12-A/C 100120331|53-T/G 100020242|53-A/G 100021807|31-T/C 100065925|36-C/T   
## 2 1 2 1 1 2 2 2 1 1 2   
## 100066073|6-T/C 100102122|31-C/A 6650428|57-G/T 6652370|62-G/A 6653373|60-G/T 6653417|48-C/G 6653777|46-G/T 6653792|53-C/A 6654058|18-T/C 6661147|26-G/C 6661226|53-C/T   
## 2 2 1 1 1 2 1 2 2 1 2   
## 6661658|19-C/T 6661670|43-T/C 6663906|23-C/T 6664040|9-G/T 100017806|36-A/G 100019553|65-G/A 100020150|48-T/C 100022824|15-T/C 100045255|15-T/C 100064683|52-A/G 100065044|38-G/T   
## 1 1 1 2 2 2 1 2 1 2 1   
## 100065331|11-A/G 100082376|10-G/T 100114017|32-T/C 6650513|52-C/T 6650793|26-A/C 6650805|11-A/G 6650968|18-A/T 6651099|28-A/G 6651150|45-T/C 6651383|67-T/G 6651541|66-T/C   
## 1 1 1 2 1 1 1 1 1 1 2   
## 6651588|49-C/T 6651711|11-A/G 6651715|59-C/G 6651731|68-G/T 6652027|41-G/A 6652109|27-A/G 6652130|35-T/C 6652152|19-T/G 6652278|43-G/C 6652658|29-A/T 6652840|16-G/A   
## 2 1 1 1 2 2 1 1 2 1 2   
## 6652867|64-C/T 6652883|26-G/C 6653149|58-C/T 6653187|24-G/T 6653229|41-A/G 6653591|11-G/C 6653796|8-T/C 6653829|21-C/A 6653872|47-G/T 6653967|40-G/A 6657086|36-C/A   
## 1 1 2 1 1 1 2 1 1 1 1   
## 6657671|40-C/T 6657902|21-T/C 6661102|10-A/G 6661477|67-A/G 6661483|14-G/C 6661530|26-C/G 6661560|54-A/G 6661564|45-T/A 6662672|28-C/A 6664046|51-T/C 6664055|23-C/T   
## 1 1 1 1 2 2 1 1 1 2 1   
## 100120332|58-C/A 100120330|33-G/T 100015220|59-C/A 100016151|11-T/C 100016562|12-G/A 100016798|34-C/T 100021467|36-G/A 100065538|21-A/T 100065912|28-G/A 100098480|21-A/C 6650742|33-G/A   
## 2 2 1 2 2 1 1 2 2 1 2   
## 6650889|38-G/T 6651263|53-A/C 6651318|7-C/T 6651340|27-C/T 6651392|24-C/T 6651403|11-C/A 6651475|6-A/G 6651645|50-G/A 6651662|13-T/A 6651726|49-G/A 6651740|27-G/A   
## 1 1 2 1 2 1 1 1 1 1 1   
## 6651858|23-A/G 6651880|60-C/T 6651889|58-T/C 6651919|45-G/T 6652026|29-G/T 6652151|12-T/C 6652259|45-G/T 6652382|40-G/A 6652492|21-C/T 6652504|25-A/G 6652541|50-A/G   
## 2 1 1 1 1 1 2 2 1 1 1   
## 6652568|29-G/T 6652593|5-G/T 6652667|36-T/C 6652794|64-C/T 6652856|20-T/A 6653235|13-T/G 6653395|26-G/A 6653420|50-G/A 6653458|58-C/T 6653463|23-A/G 6653479|25-T/C   
## 1 1 1 1 1 1 2 1 2 2 1   
## 6653599|33-C/T 6653745|15-T/C 6653871|33-G/A 6653881|45-G/A 6657644|31-G/T 6657994|16-G/A 6658139|28-G/A 6658379|30-A/G 6658529|38-A/G 6658559|22-T/G 6658652|28-T/C   
## 1 2 1 1 1 2 1 2 2 1 2   
## 6658660|28-C/G 6661093|40-C/A 6661130|16-T/C 6661369|40-T/C 6661393|35-C/A 6661665|50-T/C 6661672|7-G/A 6661712|36-C/T 6663057|27-A/C 6663982|51-T/G 6665517|21-A/T   
## 1 1 1 1 2 1 1 2 2 1 2   
## 6665665|51-T/C 6665807|65-G/A 100104824|10-C/A 100020394|66-C/G 100020441|43-A/C 100021095|9-T/C 100021324|61-A/G 100044982|27-T/C 6633176|7-T/C 6650394|45-T/C 6650524|64-C/A   
## 2 1 2 2 2 1 1 1 1 1 1   
## 6650526|41-A/C 6650616|12-C/T 6650617|39-T/G 6650695|29-G/A 6650768|33-C/T 6650776|41-A/G 6650824|6-C/G 6650856|61-G/C 6650931|6-C/T 6650932|50-A/G 6650935|64-T/C   
## 1 1 1 1 2 1 1 2 1 2 1   
## 6650950|61-A/C 6650971|13-G/A 6651076|54-T/C 6651094|7-C/T 6651112|44-A/C 6651140|51-A/G 6651141|28-C/T 6651166|8-G/A 6651232|36-T/A 6651234|42-A/T 6651248|33-A/T   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6651256|30-A/G 6651296|34-G/A 6651362|29-A/G 6651505|25-A/G 6651536|18-C/T 6651549|18-T/C 6651584|29-A/G 6651585|28-G/A 6651603|27-G/A 6651650|53-C/T 6651682|41-G/A   
## 2 1 1 2 1 1 1 2 2 2 1   
## 6651722|21-T/C 6651790|34-A/C 6651836|41-C/A 6651920|32-T/A 6651945|47-T/C 6651948|51-G/A 6651949|50-A/C 6651978|13-T/C 6651988|28-A/T 6651995|36-G/C 6651996|46-A/G   
## 1 1 1 1 1 1 2 1 1 1 1   
## 6652021|23-A/T 6652050|59-T/C 6652102|5-C/T 6652139|9-C/G 6652157|32-T/A 6652164|29-T/C 6652198|12-T/A 6652209|23-C/G 6652232|10-G/A 6652236|58-T/C 6652248|19-T/C   
## 1 2 1 1 1 2 2 1 1 1 1   
## 6652256|38-A/G 6652399|58-G/T 6652408|36-G/T 6652455|7-A/G 6652563|7-G/C 6652666|14-C/T 6652708|30-T/C 6652718|43-C/A 6652723|11-A/G 6652744|49-T/G 6652761|57-T/G   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6652809|41-A/G 6652820|37-G/T 6652865|19-C/G 6653005|35-T/C 6653010|64-G/C 6653038|53-G/C 6653130|47-A/T 6653175|37-A/G 6653237|34-C/T 6653376|49-A/C 6653396|18-A/G   
## 2 1 1 1 1 1 1 1 2 1 1   
## 6653462|51-G/A 6653499|18-A/G 6653523|14-A/C 6653530|62-T/C 6653604|19-T/A 6653643|33-G/C 6653655|16-T/C 6653725|23-C/A 6653838|44-C/T 6653994|51-G/A 6656884|31-A/G   
## 1 1 1 1 1 1 2 2 1 1 2   
## 6656889|19-A/G 6657085|18-T/G 6657130|23-G/T 6657217|6-G/T 6657267|27-G/T 6657331|17-A/G 6657391|26-A/G 6657478|16-A/C 6657485|17-C/T 6657548|20-A/G 6657600|33-G/A   
## 2 2 2 1 2 1 2 1 2 1 2   
## 6657637|34-A/C 6657667|22-A/G 6657873|49-G/A 6658002|34-T/C 6658172|30-C/A 6658300|7-T/A 6658375|19-C/G 6658441|13-C/T 6658569|13-G/A 6661094|36-A/G 6661297|9-T/G   
## 1 1 1 2 2 1 2 2 2 1 1   
## 6661311|33-T/C 6661392|20-A/G 6661396|55-T/C 6661401|35-G/A 6661459|27-G/A 6661496|33-C/G 6661598|62-A/G 6661609|59-A/C 6661636|18-T/A 6661653|9-G/A 6661756|25-G/A   
## 1 1 2 2 2 1 2 2 2 1 1   
## 6661788|59-G/T 6661804|5-T/A 6661860|33-C/T 6662701|6-A/G 6662705|5-C/G 6662826|20-C/T 6663036|30-T/G 6663052|30-A/G 6663927|13-G/A 6664053|24-C/T 6664315|17-A/G   
## 1 1 1 2 1 1 1 2 1 2 2   
## 6664393|35-G/A 100101004|14-G/C 6664748|30-C/A 6665122|15-A/T 6665280|39-G/A 6665349|39-T/A 100109477|21-T/C 6665749|9-T/C 6665804|12-G/A 6665805|15-G/A 6665809|11-A/G   
## 2 1 1 1 1 1 1 2 1 1 1   
## 6665975|52-G/A 6666169|13-T/A 6666355|23-A/G 100123948|55-T/C 100022390|44-G/A 100023236|15-G/A 100073694|7-G/A 100082381|22-C/A 100098535|7-C/G 100098787|33-A/G 100123797|15-G/T   
## 2 2 1 1 2 1 2 1 1 1 2   
## 6632181|18-G/A 6650384|58-A/G 6650392|28-C/A 6650405|15-T/C 6650425|36-A/T 6650440|25-T/C 6650441|46-C/T 6650503|7-C/T 6650511|35-A/T 6650582|52-A/C 6650601|22-C/T   
## 2 2 1 1 2 1 1 1 1 1 1   
## 6650694|13-A/C 6650707|5-A/G 6650750|63-G/A 6650751|7-T/G 6650881|41-T/C 6650887|8-T/G 6650895|17-A/G 6650942|29-A/G 6651068|27-G/A 6651106|54-A/T 6651126|7-G/A   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6651199|46-C/G 6651277|12-C/T 6651309|58-A/G 6651440|6-A/G 6651559|24-C/T 6651568|46-G/C 6651596|5-C/T 6651608|37-G/A 6651626|23-G/C 6651670|12-A/G 6651678|31-T/G   
## 1 1 1 1 1 1 1 1 1 1 2   
## 6651702|11-C/T 6651729|48-A/G 6651775|9-A/G 6651799|50-C/G 6651833|60-C/T 6651834|42-T/G 6651856|61-G/A 6651902|48-A/T 6651916|32-C/T 6651940|40-C/T 6651955|38-C/A   
## 1 2 1 1 2 1 1 1 1 1 2   
## 6652103|6-G/A 6652221|13-A/G 6652233|30-C/T 6652271|50-T/C 6652312|29-A/G 6652323|41-T/C 6652348|30-G/A 6652387|29-A/C 6652570|42-C/A 6652579|68-G/T 6652611|59-C/A   
## 1 1 1 2 1 1 1 1 2 1 1   
## 6652679|46-G/C 6652770|46-T/C 6652916|41-A/G 6652924|5-G/T 6653139|25-C/T 6653290|15-T/C 6653405|19-T/G 6653547|59-T/C 6653608|25-C/G 6653635|5-T/C 6653678|35-A/G   
## 1 1 1 1 1 1 1 2 1 1 1   
## 6653689|26-T/A 6653786|26-A/G 6653788|50-G/A 6653837|14-C/T 6653866|26-A/T 6653923|19-A/T 6653998|66-G/A 6654062|37-C/T 6654076|43-A/C 6656943|6-A/T 6656950|8-C/G   
## 2 1 2 2 1 2 1 2 1 1 1   
## 6657301|15-A/G 6657373|32-C/A 6657396|21-C/T 6657408|41-T/C 6657466|14-C/G 6657470|5-C/T 6657514|43-G/A 6657532|34-T/C 6657551|9-T/C 6657596|44-G/A 6657604|9-T/G   
## 1 2 2 2 2 2 1 2 2 2 1   
## 6657613|10-A/C 6657630|52-C/T 6657681|17-C/T 6657715|15-C/T 6657723|9-A/T 6657726|41-A/G 6657729|7-G/A 6657752|22-T/A 6657881|18-C/G 6658064|41-T/A 6658065|28-A/C   
## 2 1 2 2 2 1 2 2 1 1 1   
## 6658111|29-A/T 6658148|11-T/C 6658186|19-A/G 6658226|42-C/T 6658296|10-A/T 6658347|20-C/G 6658374|29-C/T 6658438|42-C/G 6658501|21-A/C 6658566|40-C/T 6661096|38-A/G   
## 1 1 1 2 2 2 1 2 2 2 1   
## 6661098|8-C/T 6661155|52-A/G 6661165|8-T/C 6661251|38-A/G 6661269|21-G/A 6661341|8-C/T 6661391|21-C/A 6661466|12-C/T 6661555|18-G/C 6661659|40-C/T 6661684|52-G/A   
## 1 2 2 2 2 2 1 2 1 1 1   
## 6661698|59-T/A 6661775|7-A/G 6661797|49-G/A 6662590|20-A/G 6662615|6-C/T 6662790|12-G/C 6662818|19-G/A 6662832|11-A/G 6662835|7-G/C 6662944|22-G/C 6662946|24-G/A   
## 2 1 1 2 1 2 2 1 2 2 1   
## 6662996|36-G/A 6663047|41-G/A 6663054|17-C/T 6663939|28-A/T 6663975|44-T/C 6663987|39-C/G 6664296|7-C/G 6664312|54-A/T 6664428|37-G/A 100082074|52-T/C 6664722|41-T/G   
## 2 2 2 1 1 1 1 1 2 2 1   
## 6665235|64-T/C 6665278|5-A/G 6665282|36-G/A 6665346|17-A/G 6665662|22-T/C 6665663|28-T/A 6665849|25-C/T 6665877|33-T/C 6665879|38-A/T 6666358|65-C/T 100016475|46-G/A   
## 1 1 2 2 2 2 2 2 2 1 1   
## 100016905|48-C/A 100018192|15-C/A 100018375|55-C/G 100021981|25-T/A 100045028|11-A/G 100065468|15-G/A 100065569|37-C/A 100073412|16-T/C 100073701|13-G/T 100074011|18-G/C 100082459|38-C/A   
## 2 1 2 1 2 1 1 2 2 2 2   
## 100086150|10-G/T 100086229|17-T/C 100086237|9-C/A 100091190|32-A/G 100091207|45-C/G 100091251|13-T/C 100096444|12-A/C 100098472|22-C/G 100103647|6-C/A 100107103|17-C/T 6650387|53-A/G   
## 2 1 1 1 1 2 2 2 2 1 2   
## 6650481|61-G/A 6650788|22-T/C 6651332|37-A/C 6651818|50-T/C 6651863|32-C/T 6652372|10-T/C 6652511|31-G/A 6652754|21-A/G 6652755|9-G/A 6653571|19-A/G 6653574|37-T/C   
## 1 1 1 1 1 2 1 1 1 1 2   
## 6653585|24-C/T 6657101|27-G/A 6657124|22-T/C 6657595|21-A/G 6657640|37-T/G 6657747|20-T/A 6657809|8-A/C 6657847|15-A/G 6657859|39-G/C 6657980|25-A/G 6658003|48-T/C   
## 1 2 2 2 1 2 2 1 2 2 1   
## 6658141|5-G/C 6658173|38-T/C 6658437|16-G/A 6658509|5-T/C 6658625|7-G/C 6661101|21-T/C 6661509|18-T/G 6661745|36-G/A 6661802|6-G/A 6661814|14-T/G 6662656|29-A/G   
## 1 2 1 1 1 2 1 1 1 1 1   
## 6662837|7-T/A 6662873|7-G/C 6662947|5-G/A 6663032|15-G/A 6664269|17-T/G 6664285|27-A/C 6664757|14-T/C 6664912|6-T/C 6665124|27-C/T 6665664|30-A/C 6665874|13-A/G   
## 1 1 2 2 2 1 2 2 2 2 2   
## 6665876|47-A/G 6666225|7-A/G 100065638|51-G/C 100065980|45-T/C 100073421|25-T/C 100073630|15-C/G 100073757|34-G/C 100073948|30-G/A 100074014|19-T/A 100074068|17-A/G 100082248|28-G/A   
## 2 1 1 1 1 1 1 2 2 2 1   
## 100086042|5-C/T 100093665|8-T/G 100098602|36-T/A 100098836|24-A/C 100102147|13-C/T 100121015|18-T/C 100066223|13-G/A 100106210|14-T/G 6665285|9-C/T 6661710|31-T/C 6653668|61-T/A   
## 2 2 2 2 2 2 1 2 2 1 1   
## 100024870|39-A/C 6663929|41-A/C 100019092|30-T/A 6661298|58-T/C 100016534|66-G/A 100023056|37-G/A 100082643|25-G/C 100064775|20-G/A 100023265|24-C/A 6651137|52-T/C 6652727|6-C/A   
## 2 1 1 2 1 2 2 1 1 1 1   
## 100021017|32-G/T 100073776|11-G/A 100015600|63-A/T 6665051|27-A/T 100019246|34-T/A 6651056|34-C/T 6661829|9-C/T 6665126|22-A/C 100016268|6-T/C 100020350|21-A/G 100023328|20-T/C   
## 2 1 1 2 1 2 1 2 2 2 2   
## 100066210|28-C/T 6661110|21-T/A 100018023|63-A/G 100020236|59-G/A 100021188|32-G/C 100021960|39-C/T 100023459|46-A/G 100017280|64-T/G 100018247|39-T/A 100021898|39-C/T 100022093|45-A/T   
## 1 2 1 2 1 2 2 2 2 2 2   
## 100023129|9-T/A 100023441|20-A/G 100065302|16-G/A 100066548|17-C/T 6650550|11-T/G 100016077|58-A/G 100018469|20-T/G 100019543|16-G/T 100020860|10-A/C 100022172|17-T/G 100045257|30-G/T   
## 2 2 1 1 1 2 1 1 1 1 2   
## 6650546|47-C/A 6653399|26-T/A 100015390|53-T/G 100017298|53-C/T 100017444|58-C/T 100017989|5-T/C 100018126|55-A/G 100018257|27-G/T 100018350|18-A/T 100020244|19-T/A 100021605|34-G/T   
## 1 1 2 2 1 1 1 1 2 1 2   
## 100023076|20-A/T 100023357|49-A/T 6653628|59-A/G 6661821|17-T/A 100015255|25-C/T 100015707|14-A/T 100015710|46-C/T 100016017|19-C/T 100017899|6-A/G 100019473|54-C/T 100020145|63-C/G   
## 1 1 1 2 1 2 2 2 2 2 2   
## 100021743|44-C/T 100022776|55-C/A 100023242|39-G/C 100082188|29-T/C 100015628|14-G/A 100020893|36-A/G 100021540|61-G/A 100021665|36-G/A 100022938|66-G/C 100023291|60-T/A 6661242|40-T/A   
## 1 1 2 1 1 1 1 2 1 1 1   
## 6661353|60-C/T 100016201|10-C/T 100016537|37-T/G 100016842|18-C/T 100016876|65-C/T 100016987|65-G/A 100017504|59-C/A 100019821|57-T/A 100020901|34-T/C 100021671|8-G/A 100021969|10-T/C   
## 1 2 1 2 1 1 2 1 1 2 2   
## 100022199|66-G/A 100022545|35-T/C 100022573|13-G/C 100022831|52-G/A 100066558|7-C/T 100016263|30-C/G 100016306|10-A/T 100017198|10-T/A 100017275|13-A/G 100017509|15-C/G 100018032|68-T/C   
## 1 1 1 2 1 1 1 1 1 1 2   
## 100018336|6-C/T 100018672|56-G/T 100019100|44-G/T 100019286|14-C/G 100019912|15-C/T 100020907|14-C/T 100021161|47-T/A 100021810|7-T/C 100023367|18-C/T 100064740|15-A/T 6653264|41-A/G   
## 1 1 1 1 1 2 1 1 1 1 1   
## 6663072|37-T/A 100016098|7-T/C 100016143|59-T/C 100016740|12-A/C 100016777|38-T/C 100018407|47-C/A 100018609|48-C/T 100019034|62-G/A 100019293|6-G/T 100019468|41-G/A 100019644|45-T/C   
## 2 1 1 1 1 1 1 1 1 1 2   
## 100019745|64-C/T 100021138|40-C/T 100022777|45-C/T 100066874|50-C/A 100091157|27-T/G 6652941|42-T/C 6653902|40-C/T 6664728|12-C/T 100015633|60-A/G 100016193|8-T/A 100017485|19-T/C   
## 2 1 1 1 1 2 2 2 1 1 1   
## 100018162|27-C/T 100019061|21-G/C 100019334|15-C/T 100019756|22-T/C 100020056|55-G/T 100020924|20-C/T 100022009|9-G/A 100022323|36-A/G 100022703|5-T/C 100023049|42-G/A 100023218|64-G/T   
## 1 1 1 1 2 1 1 1 1 1 2   
## 100023269|66-A/G 100024832|25-T/C 100044738|8-C/T 100065081|38-C/T 100065706|32-G/A 100096952|53-C/A 6651239|56-C/A 6651495|32-A/G 6652638|14-C/A 6653296|13-A/C 6661158|36-C/T   
## 2 1 2 1 2 1 1 1 1 1 2   
## 100015381|11-T/A 100015413|40-A/T 100015882|61-G/T 100017512|41-A/C 100018395|5-T/C 100019423|68-C/G 100019434|60-G/T 100019704|32-C/G 100019785|27-T/C 100021066|30-G/A 100021425|47-C/A   
## 1 1 2 1 2 2 1 1 2 1 1   
## 100021475|63-A/T 100021915|65-G/A 100022373|12-A/G 100022606|28-T/C 100022910|49-A/G 100025041|57-G/A 100044554|19-G/A 100064948|49-T/A 100065362|20-C/T 6650752|20-T/A 6652176|15-T/C   
## 1 2 1 1 1 1 1 1 1 1 1   
## 6653696|11-C/T 6662909|25-T/C 100015291|39-T/G 100016129|26-G/A 100017225|65-T/C 100017536|38-A/T 100017676|8-G/A 100019216|7-C/G 100019420|52-C/G 100019494|63-G/T 100020318|21-C/T   
## 1 1 1 1 1 1 1 1 1 2 1   
## 100020532|11-T/G 100020604|29-A/G 100020745|51-A/C 100021499|21-G/C 100021838|13-T/A 100021978|37-T/C 100022031|7-T/A 100022223|45-A/G 100023499|68-G/T 100023507|21-G/A 6634782|49-G/A   
## 1 1 2 1 1 1 1 1 2 1 2   
## 6650656|12-T/G 6652475|14-A/T 6661333|17-C/T 100015448|67-A/T 100015469|19-T/A 100015537|12-C/T 100015992|7-C/A 100016029|18-C/T 100016274|21-C/T 100016854|18-G/T 100017144|48-G/A   
## 1 2 1 2 1 1 1 1 1 1 2   
## 100017489|57-G/A 100017909|16-T/C 100018611|43-C/A 100018927|63-G/C 100019035|27-T/A 100019236|16-C/T 100020671|26-T/C 100021001|60-T/A 100021318|46-C/G 100021549|61-A/C 100021863|20-C/T   
## 1 2 2 1 1 2 2 2 1 1 2   
## 100023205|16-G/T 100044711|34-G/A 100064599|63-A/C 100065680|37-G/A 100118396|21-A/G 6651534|52-G/A 6651570|59-C/T 6652200|26-G/A 6652872|49-G/A 6654031|17-C/T 6661376|52-G/A   
## 1 2 1 1 2 1 1 1 1 2 2   
## 6662917|14-G/T 6666226|12-T/G 100015950|5-A/G 100016109|31-A/T 100016805|54-A/G 100016861|15-T/C 100017893|45-T/C 100018244|41-A/T 100018636|16-G/A 100018890|25-T/C 100018982|31-A/G   
## 1 1 1 1 1 2 1 1 1 1 1   
## 100019094|40-C/T 100019137|21-G/C 100019699|26-G/C 100020118|29-C/T 100020890|29-C/T 100021219|23-C/T 100021521|57-T/G 100022288|6-G/C 100022337|30-A/G 100022554|22-T/C 100023064|19-G/A   
## 1 1 1 1 2 1 1 1 1 1 2   
## 100045690|24-G/A 6650514|37-T/A 6651982|15-T/A 6653247|28-A/C 6653292|47-C/G 6653430|58-A/G 6653481|64-T/C 6653533|6-C/A 6653865|59-A/C 6661831|60-G/A 100015200|15-A/C   
## 2 1 2 1 1 1 1 1 1 1 1   
## 100015297|26-C/T 100015382|10-T/A 100017834|8-C/T 100020258|46-C/T 100021617|53-T/C 100021932|18-G/T 100022038|23-C/A 100022622|15-A/G 100022667|15-C/T 100022800|24-C/A 100022903|55-C/T   
## 2 1 1 1 1 1 2 1 1 1 1   
## 100023130|51-G/C 100023154|5-T/C 100023531|17-A/G 100045599|24-A/G 100065227|31-T/C 100065691|24-C/T 100066039|22-G/A 100066092|14-C/T 100074069|38-T/C 100106301|19-A/G 6650690|47-A/G   
## 1 1 1 1 1 1 1 2 1 1 2   
## 6651361|32-G/A 6652061|58-G/A 6652327|54-A/T 6653204|40-A/G 6653393|35-C/A 6653673|65-A/G 6653746|33-C/A 6661305|25-C/G 6664067|16-C/A 6664716|12-T/C 100015645|28-C/T   
## 2 1 1 1 1 1 1 1 1 1 1   
## 100016045|44-C/T 100016331|42-T/C 100017699|11-G/A 100018593|39-G/A 100018814|46-A/G 100019003|20-A/T 100019081|63-A/T 100019377|57-G/A 100019413|55-T/G 100019588|52-G/A 100021006|21-C/T   
## 1 1 2 1 2 1 1 1 2 1 1   
## 100021094|7-C/G 100022208|18-A/C 100022310|31-G/A 100022384|48-G/A 100022899|42-C/G 100108128|12-A/T 6650846|64-A/G 6650911|65-G/A 6651088|5-A/C 6651399|12-C/A 6652520|9-A/G   
## 1 1 2 2 1 2 1 1 1 1 2   
## 6653133|15-G/A 6653564|53-G/A 6653709|31-G/A 6653720|68-C/A 6653797|40-A/T 6653874|10-G/T 6653907|59-A/G 6653965|43-A/G 100065805|29-G/T 6661880|32-C/T 100015400|35-T/C   
## 1 1 1 1 1 1 2 1 2 2 2   
## 100016174|6-C/A 100016241|19-C/T 100016653|31-G/A 100017080|12-A/T 100017172|64-G/C 100017659|13-G/A 100017936|42-T/C 100018252|52-A/G 100018331|42-G/A 100019441|49-A/T 100020597|8-T/A   
## 1 1 2 2 1 1 2 2 1 2 1   
## 100020814|67-G/A 100022284|10-G/A 100022341|63-A/G 100023203|29-C/G 100023334|6-G/T 100023527|5-T/A 100082625|32-A/G 6631600|18-G/A 6634219|54-C/T 6650605|38-G/A 6650666|57-T/A   
## 1 1 1 1 1 1 1 2 2 2 2   
## 6650850|54-G/C 6651176|17-T/A 6651223|56-T/G 6651266|67-C/T 6651497|13-G/A 6651500|53-T/A 6652020|49-C/T 6652396|20-C/T 6652765|20-C/T 6653179|35-C/A 6653588|36-G/A   
## 1 1 2 1 2 1 2 1 2 2 1   
## 6653617|17-C/G 6653803|13-C/G 6653921|17-G/A 6654071|34-C/T 6658453|44-C/T 6662623|41-C/T 100015396|38-G/A 100015614|19-G/A 100015961|7-A/G 100016361|49-G/A 100016600|22-G/C   
## 1 1 1 1 2 1 1 1 1 1 1   
## 100017130|57-T/G 100017328|47-G/A 100018645|27-A/G 100018647|11-T/C 100019579|57-A/G 100019755|66-T/A 100020516|10-T/C 100021870|45-T/C 100022119|34-G/A 100022158|40-C/G 100022170|46-A/G   
## 1 1 2 1 2 1 2 1 2 1 1   
## 100022467|38-A/C 100022708|55-T/C 100023428|39-C/A 100064901|22-G/A 100066583|50-G/C 100082198|48-A/G 100082209|53-T/A 100114666|37-A/T 6650551|48-A/C 6650640|8-G/T 6651037|14-A/C   
## 1 2 1 1 1 2 2 1 1 1 1   
## 6651123|16-G/T 6651198|35-C/T 6651548|20-C/G 6652349|48-A/C 6652912|31-C/T 6652960|9-G/T 6653047|24-C/T 6653111|54-G/C 6653182|48-A/G 6653306|31-C/A 6653329|47-T/C   
## 1 2 2 1 1 1 1 1 1 2 1   
## 6653695|53-T/C 6657908|24-T/C 6658488|17-G/A 6661172|54-T/C 6661256|38-C/G 6665238|10-A/T 100016051|64-C/A 100016065|42-C/A 100016173|67-C/G 100016227|33-T/G 100016734|15-A/G   
## 2 2 1 1 2 1 1 1 1 1 1   
## 100017686|33-G/C 100017703|8-T/C 100017977|13-T/C 100018439|16-T/C 100020203|19-G/A 100021102|63-A/C 100021231|28-T/G 100021723|29-T/G 100022522|40-C/T 100022709|6-G/A 100045624|6-C/G   
## 1 1 1 1 2 1 1 2 1 1 1   
## 6650668|41-T/C 6650746|17-T/C 6650807|17-C/T 6650886|31-G/A 6650934|11-G/A 6651435|37-C/T 6651778|31-G/A 6651783|65-C/T 6652191|59-C/T 6652464|36-A/G 6652873|35-C/G   
## 1 1 1 1 2 1 1 1 2 1 1   
## 6653077|56-T/C 6653537|32-A/G 6653577|27-G/A 6653747|15-A/G 6661083|6-C/T 6661240|52-C/A 6661424|62-T/C 6661830|19-T/C 6665513|19-G/C 6661486|13-G/C 100015240|23-G/A   
## 1 2 1 1 1 2 1 1 1 1 2   
## 100016947|13-A/G 100018671|65-G/A 100019864|8-C/G 100019949|8-C/T 100020694|31-T/C 100022684|13-T/A 100022926|58-G/T 100023200|68-C/T 100044609|42-A/G 100065342|51-C/T 100066803|48-A/G   
## 1 1 1 1 1 2 1 1 1 1 1   
## 100085950|35-A/G 100108060|20-G/C 6630419|14-G/A 6650581|35-C/G 6650628|40-T/C 6650650|35-G/T 6650684|65-A/T 6650719|47-G/A 6650735|38-G/C 6650879|60-C/T 6651049|16-C/G   
## 1 1 2 1 1 1 1 1 2 1 1   
## 6651124|38-C/T 6651144|62-T/C 6651167|41-A/G 6651516|36-T/G 6651679|24-G/A 6651984|7-T/A 6652023|10-G/A 6652091|50-T/A 6652242|32-G/A 6652409|10-T/C 6653236|64-T/C   
## 1 1 1 2 1 1 1 2 1 2 1   
## 6653348|13-G/A 6653637|32-G/T 6653657|58-T/C 6653943|15-G/T 6653959|63-A/G 6654028|68-A/G 6654050|51-G/T 6654072|32-C/A 6657061|32-A/G 6661522|65-A/G 6665120|10-A/G   
## 1 1 1 1 2 1 1 1 1 1 1   
## 100120328|20-T/C 100120333|61-G/A 100065668|5-T/C 100015835|6-C/T 100016061|39-G/C 100016656|14-T/C 100017602|16-G/A 100019319|48-T/C 100019777|21-G/C 100021190|47-T/C 100022177|66-A/G   
## 1 2 1 1 2 1 1 2 1 2 1   
## 100023241|6-T/C 100044452|9-C/G 100065422|7-G/A 100066442|52-G/A 6650473|26-A/G 6650482|38-T/C 6650496|24-C/T 6650610|24-T/A 6650644|49-A/G 6650834|54-C/A 6650842|16-G/T   
## 1 1 1 2 2 1 1 1 1 1 1   
## 6651138|26-A/T 6651261|54-G/A 6651453|19-A/C 6651597|59-A/G 6651744|34-A/T 6651756|62-G/A 6651812|33-C/T 6651980|42-A/G 6652201|21-C/A 6652243|14-C/G 6652864|38-C/T   
## 1 1 1 1 1 2 1 1 1 1 1   
## 6653219|11-G/C 6653248|20-T/C 6653427|25-A/G 6653971|28-A/T 6657006|6-C/A 6657540|27-G/A 6661088|54-C/T 100082471|46-T/C 6661706|26-T/C 6664071|6-G/A 100016295|41-G/T   
## 1 1 1 1 1 1 1 2 1 1 1   
## 100018466|44-G/A 100020140|32-T/C 100020690|9-T/G 100020765|38-G/C 100021275|46-C/T 100045738|12-T/A 100082496|60-G/T 6650712|28-A/C 6650913|49-A/G 6650972|30-C/T 6651222|59-G/A   
## 2 2 1 1 1 1 1 1 1 1 2   
## 6651438|51-T/C 6651492|20-G/A 6651654|52-A/G 6651829|48-G/A 6651860|44-T/G 6651877|63-C/T 6651935|33-C/T 6651974|35-C/T 6651986|27-T/C 6652262|36-T/C 6652560|9-A/T   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6652688|16-G/A 6652875|8-C/G 6653021|18-A/G 6653263|25-G/C 6653294|9-G/A 6653410|59-G/C 6653536|55-G/A 6653603|22-T/C 6653802|50-G/C 6653830|13-C/T 6653963|35-C/T   
## 1 1 1 1 1 1 1 2 1 1 2   
## 6654043|16-A/G 6658028|40-G/C 6661349|14-C/A 6661568|63-A/T 6661747|28-T/C 6663960|60-T/C 6663980|14-A/G 100019622|48-T/A 100019802|12-C/T 100020020|13-G/A 100021576|15-T/C   
## 2 1 1 1 1 2 1 1 2 1 1   
## 100022394|27-C/T 100023389|57-T/G 100023502|39-T/A 100073839|28-C/G 6635439|23-T/C 6650563|22-C/T 6650688|61-A/G 6650747|16-A/C 6650772|42-C/A 6650861|34-T/A 6651030|62-A/T   
## 1 1 2 2 2 1 1 1 1 1 1   
## 6651225|58-T/C 6651322|19-G/A 6651329|44-C/A 6651331|12-T/A 6651353|65-C/A 6651374|45-A/G 6651589|18-T/A 6651687|45-A/G 6651748|42-G/T 6651933|62-A/G 6652449|21-T/C   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6652527|63-C/A 6652542|24-G/C 6652684|46-A/G 6652730|63-C/G 6652782|44-C/T 6652925|43-T/C 6653316|17-T/A 6653365|26-A/G 6653370|22-C/T 6653474|66-G/A 6653556|52-A/C   
## 1 1 1 1 2 2 1 1 2 1 1   
## 6653733|18-G/T 6653741|19-T/C 6653765|48-T/C 6653879|16-T/C 6654049|52-T/A 6657335|32-G/A 6658312|10-A/G 6661127|7-A/C 6661289|11-T/C 6661380|15-T/G 6661529|31-T/C   
## 1 1 1 1 1 1 1 1 1 2 1   
## 6661563|46-C/A 6661785|56-A/G 6661832|23-C/T 6663079|11-G/A 6665675|20-A/G 6666102|6-C/T 100121706|16-C/T 100015265|55-C/A 100015554|25-A/G 100017634|45-C/T 100018229|31-T/A   
## 1 1 2 1 2 1 1 1 1 1 1   
## 100018597|37-C/G 100018998|48-T/C 100019106|32-T/C 100093589|24-T/C 6632259|35-G/A 6632582|5-C/T 6650532|52-G/A 6650756|47-A/G 6650830|17-G/A 6650851|66-A/T 6650928|5-A/C   
## 1 2 1 1 2 1 1 1 2 1 1   
## 6650987|34-A/G 6651080|35-C/T 6651107|37-G/A 6651110|32-G/T 6651196|62-C/A 6651288|46-T/C 6651442|63-C/T 6651613|49-C/A 6651658|42-A/T 6651720|6-A/G 6651765|63-C/G   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6651802|34-G/T 6651873|50-T/C 6651874|53-T/A 6651906|20-T/A 6651943|26-G/A 6651957|58-G/A 6652104|41-C/G 6652143|61-T/G 6652149|28-A/G 6652158|57-C/T 6652181|32-G/A   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6652211|12-C/T 6652240|22-G/A 6652269|40-C/T 6652459|65-C/T 6652473|56-G/T 6652516|46-A/G 6652757|25-T/C 6652797|7-G/T 6652811|14-C/T 6652891|17-T/C 6652914|32-A/G   
## 1 1 1 2 1 2 2 1 1 1 1   
## 6652922|32-G/A 6653051|5-G/C 6653071|48-C/T 6653276|22-T/C 6653337|5-T/C 6653343|21-C/G 6653392|28-C/G 6653404|15-T/C 6653456|52-A/G 6653484|18-G/A 6653641|8-G/A   
## 1 1 1 1 1 1 1 1 2 1 1   
## 6653669|32-C/T 6653732|48-A/T 6653735|8-T/G 6653739|44-G/C 6653814|28-G/A 6653826|65-T/G 6653844|35-A/G 6653895|16-A/G 6653898|20-C/A 6653961|15-T/C 6654048|23-G/A   
## 1 1 1 1 1 1 1 1 1 2 1   
## 6657273|10-C/G 6657733|25-C/T 6657825|20-A/C 6658114|32-C/G 6658233|5-T/G 6658363|20-A/C 6661157|31-A/G 6661223|43-A/T 6661238|20-T/G 6661454|19-A/G 6661478|59-G/T   
## 1 1 2 1 1 1 1 1 1 1 1   
## 6661581|31-C/T 6661584|33-A/T 6661734|17-A/G 6662610|35-C/T 6663909|13-G/T 6664051|46-A/C 6665119|8-A/G 6666170|15-A/C 6666170|17-G/A 6666170|6-G/A 100018529|16-G/A   
## 1 1 1 1 1 1 1 1 1 1 2   
## 100019109|54-C/T 100020873|6-C/G 100020968|7-A/G 100021983|42-A/C 100022525|11-T/A 100065722|64-T/C 6650393|5-T/C 6650424|56-T/C 6650439|56-G/A 6650466|32-T/C 6650505|17-A/G   
## 1 1 1 2 1 2 2 1 1 1 2   
## 6650506|45-A/C 6650533|15-G/T 6650557|47-G/T 6650621|36-G/A 6650631|22-C/T 6650685|22-A/T 6650724|18-T/A 6650838|22-C/T 6650866|40-T/C 6650867|54-T/C 6650893|22-G/A   
## 1 1 1 1 1 1 1 1 2 1 1   
## 6650917|35-C/T 6650920|31-G/C 6651018|30-A/C 6651060|22-T/C 6651146|26-G/A 6651378|67-C/T 6651387|24-T/A 6651391|45-G/A 6651444|17-T/C 6651450|54-T/G 6651457|37-T/C   
## 1 1 1 1 1 1 1 2 1 1 2   
## 6651484|65-A/G 6651503|6-A/G 6651510|59-A/G 6651537|19-A/C 6651552|29-C/T 6651562|32-G/C 6651569|33-T/G 6651580|22-T/A 6651606|13-T/C 6651612|31-C/T 6651615|24-A/G   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6651705|42-A/G 6651737|5-C/T 6651892|35-T/C 6651930|26-G/C 6651938|17-A/C 6652055|48-A/G 6652132|43-T/C 6652144|17-G/A 6652212|22-A/G 6652231|38-C/A 6652386|55-C/G   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6652398|40-G/A 6652413|28-C/A 6652427|27-T/A 6652438|68-G/A 6652494|24-T/C 6652515|15-A/G 6652518|57-T/C 6652535|53-G/T 6652564|55-A/G 6652619|16-T/C 6652816|67-C/G   
## 1 1 1 1 1 2 1 1 1 1 1   
## 6652945|37-C/A 6653041|46-A/G 6653142|49-C/A 6653144|56-G/T 6653148|46-A/C 6653163|62-T/C 6653369|63-C/T 6653408|40-T/C 6653429|7-A/G 6653439|17-G/C 6653493|47-C/T   
## 1 1 2 1 1 1 1 1 1 2 1   
## 6653501|7-C/T 6653502|28-G/C 6653504|7-C/G 6653563|7-T/A 6653593|19-T/C 6653740|20-C/T 6653755|14-T/C 6653790|16-T/G 6653834|11-T/C 6653851|28-A/C 6653936|33-A/C   
## 1 1 1 2 1 1 1 1 2 1 1   
## 6653989|22-G/A 6654038|30-G/A 6654047|8-G/A 6654066|45-C/G 6657075|25-A/C 6657215|14-A/T 6657652|33-T/C 6658198|15-T/C 6658380|19-G/A 6658597|10-T/C 6661103|59-T/C   
## 1 1 1 1 2 1 1 1 1 2 2   
## 6661108|53-A/G 6661557|11-G/A 6661627|50-T/C 6661879|7-T/C 6662888|24-C/A 6662892|24-C/T 6664359|17-A/T 6664391|17-A/G 6664780|11-C/T 6665039|22-C/G 6666100|22-C/T   
## 2 2 1 2 1 1 1 1 2 1 1   
## 6666102|30-T/C 6654102|57-C/A 100016395|29-T/C 100020724|58-C/T 100022521|22-C/T 100022955|34-C/A 100045457|17-G/A 100073683|46-G/A 100093512|17-C/G 100102305|42-T/G 100121708|34-C/G   
## 1 1 2 2 1 1 2 2 1 1 1   
## 6650447|47-T/C 6650456|36-A/G 6650499|21-C/T 6650502|55-C/G 6650518|44-C/T 6650566|9-A/G 6650589|18-C/T 6650595|24-C/T 6650602|41-G/A 6650625|38-T/C 6650630|7-C/G   
## 2 1 1 1 2 2 1 2 2 1 1   
## 6650642|21-G/A 6650708|55-C/A 6650731|33-G/A 6650777|15-G/C 6650798|22-T/C 6650874|54-T/G 6650892|52-T/C 6650926|30-T/C 6650951|18-A/G 6650983|20-T/G 6651002|11-G/T   
## 1 1 1 1 1 1 1 1 1 1 2   
## 6651006|19-G/A 6651015|9-T/A 6651028|11-C/T 6651064|34-C/G 6651075|68-C/T 6651082|17-A/G 6651108|57-A/T 6651169|15-T/C 6651211|35-G/A 6651214|29-G/C 6651218|36-A/G   
## 1 1 1 1 1 1 1 1 1 1 2   
## 6651236|9-A/C 6651265|9-G/A 6651293|36-A/T 6651299|48-A/G 6651311|22-C/T 6651316|37-T/G 6651339|7-G/A 6651360|17-C/A 6651411|25-A/G 6651455|40-A/G 6651480|6-A/C   
## 1 1 1 1 2 1 1 2 1 2 1   
## 6651535|17-G/C 6651553|40-C/T 6651633|11-G/C 6651642|43-A/C 6651652|13-T/A 6651653|46-A/T 6651666|39-C/A 6651668|54-T/C 6651692|43-T/C 6651779|57-A/G 6651819|25-G/C   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6651894|54-A/G 6651913|20-A/G 6651928|6-C/T 6651950|10-C/T 6651962|57-C/T 6651979|59-G/T 6652004|68-A/T 6652041|41-T/C 6652076|24-T/G 6652082|47-A/G 6652128|6-G/A   
## 1 1 1 1 2 2 1 1 1 1 1   
## 6652178|42-C/T 6652228|29-C/T 6652229|59-T/C 6652252|11-C/T 6652279|53-A/T 6652302|43-G/A 6652328|42-T/G 6652402|15-A/G 6652405|52-T/C 6652430|41-A/T 6652442|59-A/G   
## 2 1 2 1 1 1 1 1 1 1 1   
## 6652444|19-A/C 6652476|42-G/A 6652478|11-G/T 6652495|5-G/A 6652517|8-A/G 6652531|35-T/C 6652633|57-C/A 6652685|43-G/A 6652711|52-C/T 6652775|11-G/A 6652812|20-T/C   
## 1 1 1 1 1 1 1 1 2 1 2   
## 6652825|12-T/C 6652846|44-A/G 6652876|5-G/A 6652899|47-T/G 6652923|25-T/A 6652938|38-G/A 6652954|34-G/A 6652977|48-A/C 6653056|35-C/G 6653113|5-G/A 6653221|12-A/T   
## 1 1 1 1 2 1 1 1 1 1 1   
## 6653285|45-G/C 6653299|45-T/C 6653300|45-T/C 6653301|16-C/T 6653302|10-C/T 6653314|19-C/A 6653350|22-C/T 6653402|19-G/T 6653488|18-C/T 6653495|56-A/T 6653519|51-A/G   
## 1 2 1 2 1 1 1 1 1 2 1   
## 6653534|60-C/T 6653576|42-C/A 6653592|23-G/A 6653671|64-C/A 6653680|17-G/A 6653685|30-G/A 6653711|10-T/A 6653718|49-A/C 6653737|54-G/A 6653753|52-T/C 6653780|36-C/G   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6653880|38-A/G 6653900|13-T/A 6653944|44-G/A 6653977|55-A/G 6653997|67-G/A 6654006|12-T/C 6654014|37-G/A 6654041|11-A/G 6654055|10-A/G 6654086|14-G/A 6654088|35-T/A   
## 1 1 1 1 1 1 1 1 1 2 1   
## 6656956|22-A/G 6657047|46-C/T 6657188|43-C/G 6657327|42-G/C 6657536|7-A/G 6657721|47-G/C 6657808|17-T/A 6657912|46-T/G 6658001|44-A/T 6658011|9-C/A 6658107|14-C/G   
## 1 1 1 2 2 1 1 1 2 1 2   
## 6658156|5-G/T 6658199|15-T/C 6658229|33-G/T 6658234|5-T/G 6658254|27-T/C 6658284|37-G/A 6658292|22-T/C 6658327|20-A/G 6658407|20-G/A 6658414|11-G/A 6658562|19-G/T   
## 1 1 2 1 1 1 1 1 1 1 1   
## 6658586|32-A/C 6658643|11-C/T 6658671|14-C/T 6661089|25-T/C 6661118|54-A/G 6661135|53-G/A 6661189|30-T/C 6661215|39-T/G 6661222|65-T/A 6661248|53-C/G 6661249|13-A/G   
## 1 1 2 1 1 1 1 1 1 1 1   
## 6661292|48-T/C 6661362|55-T/C 6661374|18-A/G 6661410|32-G/T 6661422|22-C/T 6661440|5-C/T 6661444|36-A/G 6661467|8-T/G 6661491|67-G/C 6661502|37-A/T 6661590|51-A/C   
## 1 1 2 1 2 1 1 1 1 1 1   
## 6661599|28-A/G 6661630|50-G/A 6661635|15-T/C 6661640|37-T/A 6661680|9-C/G 6661723|32-C/T 6661736|14-G/C 6661758|19-G/A 6661804|60-A/G 6661810|40-A/C 6661811|44-T/A   
## 2 1 1 1 1 1 1 1 1 2 1   
## 6661811|67-G/A 6661833|57-C/T 6661841|11-G/A 6661855|40-T/C 6661864|19-T/A 6661882|41-A/G 6661883|8-G/A 6661885|20-A/T 6662600|6-A/G 6662722|30-G/C 6662742|10-A/C   
## 1 1 1 1 1 2 1 1 1 1 1   
## 6662844|10-A/C 6662885|9-G/T 6662886|27-C/T 6662910|18-C/G 6662926|18-T/C 6663096|18-A/T 6663907|45-A/G 6663910|8-C/T 6663965|32-C/T 6663983|49-G/C 6663986|51-T/A   
## 2 1 1 1 1 1 2 1 1 1 1   
## 6664025|20-C/T 6664038|20-G/A 6664063|32-G/A 6664295|6-G/A 6664431|31-A/G 6664713|15-G/A 6665122|10-A/C 6665220|17-C/T 6665221|28-T/C 100109498|18-A/G 100109477|15-C/T   
## 1 1 1 2 2 1 1 1 1 1 1   
## 100109477|9-A/C 6665568|14-T/C 6665571|10-T/C 6665805|26-C/G 6666099|20-C/T 6666516|59-G/A 100124929|12-A/G 100016665|5-A/G 100016860|40-G/A 100019055|15-C/A 100019486|67-T/C   
## 1 1 2 1 1 1 1 1 1 1 1   
## 100020835|48-C/G 100044994|33-G/A 100064828|9-G/T 100064931|32-G/A 100065941|26-T/C 100073522|28-A/G 100081694|12-C/T 100093694|8-T/G 100114698|38-A/T 100121709|38-A/G 6631771|63-G/A   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6643511|8-T/C 6650389|25-A/G 6650408|50-C/T 6650436|33-G/A 6650531|50-G/A 6650573|57-G/A 6650637|15-T/C 6650654|52-A/C 6650710|46-T/G 6650720|22-A/T 6650779|16-C/T   
## 2 2 1 1 1 1 1 1 1 2 1   
## 6650822|27-G/A 6650832|27-T/C 6650901|27-G/A 6650902|39-G/T 6650937|10-A/G 6650960|65-A/G 6651019|62-A/G 6651142|65-T/C 6651204|9-G/A 6651227|47-C/T 6651280|20-T/A   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6651418|16-G/T 6651508|15-G/T 6651574|38-G/T 6651577|11-A/G 6651598|31-T/C 6651697|15-C/T 6651725|7-T/C 6651760|20-A/T 6651762|50-A/G 6651788|15-A/G 6651792|9-G/A   
## 2 1 1 2 1 1 2 1 1 1 1   
## 6651793|43-T/C 6651862|51-C/T 6651882|23-G/A 6651884|35-A/C 6651903|16-A/G 6651924|35-T/C 6651929|41-G/T 6651993|33-G/A 6651998|13-G/T 6652029|51-G/A 6652043|18-A/G   
## 1 1 1 1 2 1 1 1 1 1 1   
## 6652138|37-A/G 6652167|65-C/G 6652206|59-C/A 6652238|26-C/T 6652289|28-A/T 6652298|67-A/G 6652307|44-C/A 6652334|58-A/T 6652336|15-C/A 6652366|34-C/A 6652425|29-A/T   
## 1 1 1 1 1 1 1 1 2 1 1   
## 6652524|49-C/T 6652588|40-G/T 6652613|43-C/G 6652632|21-A/G 6652778|29-G/A 6652802|13-A/T 6652819|42-A/C 6652826|14-T/C 6653026|52-G/C 6653068|62-G/C 6653116|22-A/G   
## 1 1 1 1 1 1 1 1 2 1 1   
## 6653218|66-C/G 6653354|23-C/A 6653444|44-G/T 6653464|25-A/G 6653494|25-G/A 6653568|59-G/C 6653672|51-G/T 6653690|24-G/C 6653700|47-T/C 6653713|41-T/C 6653736|20-T/A   
## 1 2 1 1 1 1 1 1 1 1 1   
## 6653875|30-C/T 6653968|66-C/G 6653974|33-T/A 6653991|65-G/T 6657021|28-G/A 6657102|16-C/T 6657128|18-G/A 6657132|5-A/C 6657178|34-G/A 6657193|53-C/T 6657201|19-A/G   
## 1 1 1 1 2 1 1 2 2 2 1   
## 6657204|30-A/C 6657318|9-G/A 6657354|8-C/T 6657383|35-G/T 6657458|5-C/G 6657566|43-G/A 6657607|43-G/A 6657631|9-G/A 6657655|8-T/C 6657745|21-C/A 6657813|21-A/G   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6657950|26-T/C 6658016|18-C/G 6658025|28-G/A 6658074|26-C/A 6658086|13-T/C 6658116|19-T/G 6658140|8-T/C 6658176|39-C/T 6658256|13-G/C 6658270|50-G/T 6658309|15-G/T   
## 2 1 1 1 1 1 1 2 1 1 1   
## 6658382|35-G/A 6658386|9-G/T 6658396|48-A/T 6658416|19-T/C 6658448|12-A/G 6658539|20-A/G 6658593|6-T/C 6658605|5-T/A 6658616|40-G/T 6658646|18-C/A 6661133|7-C/G   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6661179|34-A/T 6661195|26-A/G 6661294|16-G/T 6661342|14-G/C 6661347|62-A/G 6661359|29-T/C 6661360|12-T/C 6661375|25-G/A 6661390|29-G/A 6661411|10-A/T 6661415|7-G/A   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6661429|43-A/G 6661461|24-A/G 6661525|21-A/G 6661561|6-A/G 6661611|46-A/C 6661622|45-G/T 100097038|21-G/A 6661741|18-C/T 6661767|9-T/C 6661768|5-T/C 6661780|15-A/T   
## 1 1 1 1 2 1 2 1 1 1 1   
## 6661784|18-A/G 6661801|15-C/T 6662572|23-G/A 6662577|20-C/A 6662598|13-T/G 6662619|18-C/T 6662621|6-C/T 6662686|27-C/T 6662729|33-C/T 6662743|22-C/T 6662903|44-T/C   
## 2 2 1 1 1 2 1 2 2 1 1   
## 6664062|57-T/C 6664077|54-G/T 6664087|35-A/T 6664282|11-G/A 6664352|17-T/G 6664715|34-G/A 6665049|6-C/T 6665121|17-A/G 6665508|35-A/G 6665515|61-A/G 6665540|8-G/A   
## 2 1 1 2 1 1 1 1 1 2 2   
## 6665849|33-C/T 6666095|7-A/G 6666174|7-C/T 6666520|31-G/A 100015941|21-T/C 100016251|35-G/A 100016732|29-G/A 100045346|24-C/T 100045582|33-G/A 100045632|7-G/A 100064767|54-T/C   
## 1 1 1 1 1 1 1 2 1 2 1   
## 100064928|53-G/A 100065927|39-C/T 100074119|31-T/C 100082416|45-C/A 100085968|36-G/A 100091287|38-A/T 100093420|8-G/A 100104859|48-T/C 100121707|24-C/G 6650478|7-C/T 6650577|59-A/G   
## 1 1 1 1 2 1 1 1 1 1 1   
## 6650765|26-G/A 6651007|49-A/G 6651119|61-A/G 6651133|33-C/T 6651237|16-C/T 6651693|21-C/T 6651704|49-G/T 6651952|32-C/T 6652155|42-G/C 6652275|21-C/T 6652283|16-C/T   
## 1 1 2 1 1 1 1 1 1 1 1   
## 6652292|40-G/A 6652303|27-C/T 6652553|13-A/G 6652626|33-A/G 6652630|7-G/C 6652656|7-T/C 6652758|10-G/A 6653200|23-C/A 6653877|30-A/G 6653984|20-G/T 6656875|8-A/T   
## 1 1 1 1 1 1 1 2 1 2 1   
## 6656924|30-G/C 6656996|5-A/T 6657117|41-C/T 6657154|6-G/A 6657156|29-A/C 6657483|18-T/G 6657561|6-C/T 6657735|31-T/A 6657741|7-G/A 6657814|9-A/G 6657850|12-C/G   
## 1 1 1 2 1 1 1 1 2 2 1   
## 6657942|13-C/G 6657997|45-C/T 6658062|30-T/G 6658550|29-A/G 6658582|12-C/G 6658632|5-T/C 6661273|54-T/A 6661308|52-T/C 6661408|14-C/T 6661538|9-G/A 6661791|66-G/C   
## 1 1 1 1 1 1 1 2 1 1 1   
## 6661818|22-G/A 6662638|5-A/G 6662824|38-C/T 6662887|8-G/C 6663037|41-C/G 6664882|7-A/C 6665050|32-A/T 6665295|5-T/C 100019888|47-T/C 100045453|46-G/A 100045704|9-A/G   
## 1 1 2 1 1 1 1 1 1 1 1   
## 100064586|17-G/C 100066059|7-C/T 100074054|47-T/A 100082120|8-T/C 100086057|9-A/G 100086096|24-G/T 100093333|41-G/C 100098548|28-A/G 100104693|28-T/A 100104890|20-C/A 100106918|8-T/C   
## 1 1 2 1 2 2 1 1 1 1 1   
## 100086278|15-A/T 100098561|7-T/A 100112393|13-T/C 6665409|19-C/A 100106209|11-T/A 6652014|36-G/A 100016895|29-G/A 6661843|44-G/A 6652389|64-T/C 6661649|50-A/C 6657666|21-A/T   
## 1 1 2 1 2 1 1 1 1 1 2   
## 6661268|63-T/G 100023082|28-G/T 100017188|42-C/G 6661288|45-T/C 100021319|48-T/G 100045470|27-C/T 6661435|57-G/T 100065514|5-T/C 6630387|13-C/T 100065726|10-C/T 6653782|5-C/T   
## 1 1 2 1 1 1 1 1 1 2 2   
## 100021899|36-A/T 100066454|16-G/T 100065272|30-T/C 100066129|22-G/A 6653374|61-T/C 6664733|54-T/A 100022349|67-T/A 100015942|46-A/C 100016792|52-G/C 100018206|33-G/A 100064825|31-G/T   
## 1 1 2 2 1 2 1 1 2 1 1   
## 100066202|30-T/C 100073401|49-C/A 6633382|47-T/C 100021640|61-G/C 100022856|29-A/C 100023978|37-A/T 6652591|64-T/C 6661464|50-T/A 100015796|50-T/A 100016769|29-T/C 100019373|29-G/A   
## 1 1 2 1 1 2 2 1 1 1 1   
## 100023055|35-A/T 100097014|5-T/G 6661225|60-T/C 6661548|33-A/T 100017088|61-C/T 100023509|31-T/C 100015492|43-G/A 100018948|22-T/C 100020108|6-G/A 100020234|29-G/C 100021104|60-G/C   
## 1 2 1 1 1 1 1 1 1 2 2   
## 100022438|10-G/T 100065777|27-G/T 6634350|32-G/T 100015248|33-A/G 100016465|17-G/A 100016470|38-G/A 100017055|22-C/A 100020326|38-A/G 100020580|5-T/G 100020916|54-A/T 100022162|26-G/C   
## 2 1 2 1 1 2 1 1 1 1 1   
## 100022968|12-G/A 100023214|50-T/C 100023558|48-A/G 100065527|10-A/G 100108046|10-C/G 6652805|19-C/T 6653649|51-C/A 100016806|34-T/C 100016973|34-G/A 100017185|9-C/T 100019652|10-T/C   
## 1 1 1 1 1 1 1 1 1 2 1   
## 100020977|12-T/C 100021791|20-G/A 100064895|33-A/T 100064988|25-T/C 6653972|28-A/G 6658602|21-G/C 100015510|28-A/T 100016175|6-T/C 100016191|14-G/A 100018397|31-G/T 100019542|48-A/C   
## 2 2 1 2 2 1 1 1 1 1 1   
## 100020295|21-C/T 100020374|38-T/C 100021678|59-A/G 100066638|43-T/G 6653330|11-G/A 100015953|68-T/C 100016139|30-C/T 100016326|61-C/T 100016487|19-G/T 100016577|32-A/G 100016760|26-T/A   
## 2 1 1 2 1 1 1 2 1 2 1   
## 100016954|51-G/A 100017145|65-A/G 100017289|41-G/C 100017927|57-A/G 100019119|41-A/C 100019129|28-A/G 100020392|13-C/T 100021327|23-G/A 100022094|8-A/T 100023476|68-C/T 100065094|17-G/A   
## 1 2 1 2 2 2 1 1 1 2 2   
## 100082310|17-G/A 100091292|53-C/T 6633859|61-C/G 6651602|9-A/G 6653320|67-A/G 100015805|62-G/A 100016005|36-T/C 100017432|35-A/G 100019685|30-C/T 100020281|34-T/C 100020816|17-G/A   
## 1 1 1 1 2 1 2 1 1 2 1   
## 100020920|57-A/G 100021124|31-G/T 100021513|63-A/G 100021836|10-G/A 100022515|43-C/T 100023216|57-G/T 100023496|7-C/T 100023681|60-G/A 100065088|33-A/T 100065666|45-T/C 100066471|53-C/T   
## 1 1 1 1 1 1 1 1 1 2 1   
## 6652033|13-A/C 6661430|6-G/T 6661570|26-C/T 6661730|63-G/C 100016186|12-C/A 100016774|44-T/A 100017111|47-A/G 100017208|21-G/A 100017523|52-T/C 100017874|53-A/G 100018144|64-A/G   
## 1 1 1 1 1 1 1 1 2 2 2   
## 100018225|53-A/G 100018942|41-G/T 100019677|5-A/G 100022269|27-A/T 100066082|15-C/A 100066253|43-C/A 100066444|14-G/A 100114672|22-C/T 6651282|60-A/T 6651428|21-T/C 6652874|33-G/A   
## 1 1 1 2 1 1 1 1 1 1 1   
## 100015264|22-A/T 100015814|11-C/G 100015850|40-T/C 100016120|45-G/A 100017115|64-C/T 100017958|17-G/A 100018308|19-A/G 100018683|52-C/T 100019218|10-T/C 100019222|23-G/C 100020050|41-T/C   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100020331|13-C/T 100020335|6-A/C 100021226|41-T/G 100021502|29-G/A 100021862|6-G/A 100021994|17-A/G 100022357|61-G/A 100022781|47-C/T 100023182|23-A/G 100023311|52-A/T 100023534|68-C/G   
## 1 1 1 1 1 1 1 2 2 1 1   
## 6653500|12-A/G 6661123|54-G/C 6665401|24-G/T 100015499|31-G/A 100015907|12-G/C 100016631|34-T/C 100019009|45-G/A 100019123|42-G/A 100019424|28-A/G 100019445|67-A/C 100019654|17-C/T   
## 1 1 2 1 1 1 1 1 1 1 1   
## 100020359|57-A/G 100020876|63-C/T 100022261|20-C/T 100022625|36-A/G 100023251|49-T/A 100090852|5-C/T 6653799|6-G/A 6661647|17-A/C 100015702|42-C/T 100015896|29-T/C 100016097|8-A/G   
## 2 2 1 1 1 2 1 1 2 1 1   
## 100016416|52-T/A 100016914|9-T/G 100017736|15-G/C 100018093|40-G/C 100018383|12-A/G 100018805|31-A/G 100018914|23-G/A 100019000|63-T/G 100019412|18-C/T 100019519|62-G/C 100019671|36-A/G   
## 1 2 1 1 1 2 1 1 1 1 2   
## 100019895|42-T/C 100020000|31-A/G 100020210|64-C/T 100021670|11-G/A 100021761|67-C/T 100022043|14-T/A 100022106|27-G/A 100022213|48-C/T 100022452|60-C/T 100022997|31-G/A 100065791|46-T/C   
## 1 2 1 1 1 1 1 2 1 1 1   
## 100066265|30-T/C 100066487|11-G/A 100101063|5-T/C 6634524|57-T/A 6652255|33-A/G 6661618|12-C/T 100015912|66-G/T 100015914|56-A/G 100016606|50-T/C 100016946|25-C/A 100017520|47-T/G   
## 2 1 1 1 1 1 1 2 2 1 1   
## 100018722|5-C/A 100019526|9-G/A 100019891|44-C/T 100020909|55-A/T 100020985|50-A/G 100021139|33-G/C 100021214|56-G/A 100021255|31-C/T 100021313|59-A/C 100022420|43-T/C 100022458|29-G/T   
## 1 1 1 1 1 1 1 2 1 1 1   
## 100022624|40-G/C 100022691|40-C/T 100023114|8-T/A 100023164|37-T/C 100023165|10-C/T 100023475|55-A/G 100024879|34-A/G 6650963|31-A/G 6650995|35-T/C 100015203|28-T/C 100015415|9-G/T   
## 1 1 2 1 1 1 2 1 1 1 1   
## 100015496|59-G/T 100015847|60-G/C 100015873|28-A/C 100015977|34-A/G 100016012|21-A/C 100016160|65-G/A 100016617|11-C/G 100016919|15-T/A 100016933|17-A/C 100017138|9-G/C 100017592|13-G/T   
## 1 1 1 1 1 2 1 1 2 2 1   
## 100017929|18-A/C 100018201|42-T/G 100018285|15-G/A 100018596|39-G/A 100018944|19-C/A 100019340|48-A/G 100019515|10-G/A 100019761|17-G/A 100019817|32-A/G 100020455|16-G/A 100020993|47-T/C   
## 2 1 1 1 1 1 1 1 2 1 1   
## 100022157|60-A/G 100023102|7-C/T 100045024|30-A/C 100065312|53-G/T 100066063|67-C/T 100066423|46-G/A 6634305|33-C/G 6651275|16-A/C 6652010|36-G/A 6661116|34-A/C 6664719|65-C/G   
## 2 1 1 1 2 1 1 1 1 1 1   
## 100015734|66-G/C 100015877|41-T/C 100016028|28-G/T 100016794|51-C/G 100016930|62-C/T 100016976|17-C/G 100017073|58-C/A 100017352|5-T/A 100017471|13-G/C 100017594|43-T/C 100017596|13-T/C   
## 1 1 1 1 2 1 1 1 1 1 1   
## 100018057|54-A/T 100018384|20-C/A 100018436|8-C/T 100018459|29-C/T 100018601|57-C/A 100018886|5-G/C 100019401|38-C/A 100019538|40-A/G 100019682|13-G/C 100019773|68-G/T 100019884|7-A/G   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100020084|63-C/A 100020358|5-G/C 100020410|17-G/T 100020846|22-A/G 100021982|22-G/C 100022352|35-G/C 100023106|5-T/A 100023435|47-T/A 100023548|13-A/T 100064672|55-C/T 100091227|51-T/A   
## 1 1 1 1 1 1 2 1 1 1 1   
## 100121014|17-C/T 6653240|15-A/T 100015605|26-A/G 100015623|29-T/A 100015712|9-A/T 100015915|16-G/C 100016293|25-T/A 100016319|36-T/C 100016723|21-C/T 100017173|15-T/A 100017697|22-G/A   
## 2 1 1 1 1 1 1 2 1 1 2   
## 100018492|22-T/C 100018548|16-C/T 100018796|68-C/T 100018865|11-C/A 100018936|13-C/T 100019019|18-A/G 100019086|21-G/A 100019131|12-T/C 100019765|29-C/T 100019951|22-C/T 100020346|50-T/C   
## 2 1 2 1 1 1 1 1 1 2 1   
## 100021253|53-T/C 100021441|53-T/C 100021634|50-A/C 100021664|5-T/C 100021900|25-G/C 100021918|16-G/C 100021944|59-G/C 100022064|57-C/T 100022439|9-G/A 100022958|60-G/A 100023335|10-T/C   
## 1 2 1 2 1 1 2 1 2 2 1   
## 100066167|17-A/C 6652225|65-T/C 6653132|37-C/T 6653692|35-T/A 6661742|53-G/T 6663972|39-G/A 6664076|30-T/C 100015254|42-A/G 100015421|66-C/T 100017443|50-T/A 100018227|9-A/G   
## 1 2 1 1 1 1 1 2 1 1 1   
## 100018684|33-T/C 100019036|18-A/C 100019346|5-C/T 100019642|57-C/T 100020216|59-T/G 100020462|12-G/T 100020825|41-T/A 100021447|5-C/T 100021487|10-A/G 100022350|27-C/T 100022637|44-C/T   
## 2 1 1 2 1 1 1 1 1 1 1   
## 100022974|38-G/A 100023108|17-G/A 100023245|57-A/T 100023390|19-G/A 100023533|34-T/C 100064760|51-A/T 100064984|7-A/T 6635254|28-C/T 6650882|51-G/T 6651794|65-C/A 6652456|5-G/C   
## 1 1 1 1 2 1 1 1 2 1 1   
## 6652956|28-T/C 6653074|11-G/T 6653246|55-C/T 6653257|11-T/C 6653558|37-T/C 6653841|24-C/G 6661717|50-A/G 100015306|34-G/T 100017026|18-T/C 100017183|63-A/C 100017740|39-T/C   
## 1 2 1 1 1 2 1 1 1 1 1   
## 100018186|14-G/A 100018502|54-A/C 100019407|9-A/G 100019597|22-G/T 100019799|11-C/T 100020064|5-A/G 100020467|61-C/G 100021342|19-T/G 100021726|23-G/T 100021853|38-A/G 100022073|47-G/A   
## 1 1 1 1 2 1 1 1 1 2 1   
## 100022174|61-T/C 100022237|64-T/G 100022450|28-C/T 100023247|11-G/A 100024830|48-A/T 100065475|5-A/C 100065743|19-C/T 6651542|50-G/C 6652006|5-C/A 6652136|34-G/A 6652490|28-C/A   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6653164|33-G/T 6661138|57-G/A 6661286|13-C/T 100015294|55-T/C 100015312|26-G/C 100015717|58-T/C 100016035|58-C/T 100017166|55-C/G 100017336|19-C/T 100017436|6-T/A 100018333|8-T/C   
## 1 2 1 1 1 1 1 2 2 1 1   
## 100018623|26-G/A 100018949|25-G/A 100019179|31-T/A 100019378|46-T/C 100019715|11-C/T 100020007|20-C/A 100020186|42-A/T 100020325|12-G/A 100020984|22-A/T 100021063|19-C/T 100021116|47-G/C   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100021276|48-T/C 100021323|21-A/G 100023352|36-C/T 100023524|20-T/A 100064607|25-T/A 100064666|61-G/A 100066449|6-A/G 100104023|51-G/T 6651556|12-T/C 6651732|66-T/C 6652161|13-A/G   
## 1 1 1 1 2 1 1 1 1 2 1   
## 6653042|9-A/T 6661220|17-G/T 100015287|46-T/C 100015379|18-A/G 100015449|18-T/C 100016230|18-C/G 100016245|55-T/C 100016437|62-T/C 100017249|15-G/A 100018724|8-T/C 100018729|20-A/C   
## 1 1 1 1 1 1 1 1 2 1 1   
## 100018771|32-C/T 100019308|38-T/C 100019625|33-C/T 100019716|25-C/T 100020654|61-G/A 100021098|19-A/T 100021170|5-G/C 100021240|55-G/C 100021330|41-C/T 100021985|6-G/C 100022470|47-C/T   
## 1 1 2 1 1 1 1 1 1 1 1   
## 100022786|9-C/T 100022992|63-G/C 100023087|65-T/C 100023089|12-A/T 100065113|20-C/T 100065660|34-T/C 100082081|14-T/C 6650676|61-A/G 6650683|35-G/A 6650847|62-G/T 6651376|46-G/A   
## 2 1 1 1 2 1 1 2 1 1 1   
## 6651698|17-A/G 6652341|11-G/A 6652418|6-T/A 6652657|13-T/C 6653549|37-G/A 6653926|47-C/T 6661137|45-A/G 6661795|29-A/G 6664067|38-C/T 100015300|34-C/G 100015553|64-G/T   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100015662|64-G/A 100015747|67-T/C 100016172|45-C/A 100016321|25-T/C 100016379|15-C/T 100016524|6-T/G 100016678|13-G/A 100017389|39-C/A 100017447|10-T/G 100018638|48-T/C 100019669|13-T/C   
## 1 1 1 2 2 1 1 1 1 2 1   
## 100021395|62-G/A 100021505|40-T/C 100021653|13-T/G 100021672|31-T/C 100022109|34-G/A 100022563|58-C/T 100022828|22-T/C 100023017|29-A/T 100066440|62-C/G 100066652|41-G/A 100096906|18-C/T   
## 1 1 1 1 1 2 1 1 1 2 1   
## 6630114|53-A/C 6650736|10-G/T 6651252|16-C/T 6653034|28-A/G 6653152|22-C/A 6653197|10-T/C 6653543|62-T/A 6653729|12-T/C 6658435|49-C/A 6661280|18-T/C 6661782|19-A/G   
## 1 1 1 1 1 1 1 1 1 2 1   
## 100015470|41-C/T 100016237|28-C/A 100016452|17-G/A 100016620|23-T/C 100016680|26-G/A 100016867|47-C/T 100016970|8-C/T 100018066|41-A/G 100018458|45-C/T 100018598|40-C/T 100019260|10-C/G   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100019313|6-T/C 100020459|17-G/C 100022183|15-A/C 100022219|59-T/A 100022324|20-A/T 100022476|18-T/C 100022820|44-T/C 100065830|50-G/A 100073534|35-A/T 100108129|53-C/A 6631518|25-C/G   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6650419|25-C/G 6650596|64-G/T 6650922|18-T/C 6650997|7-A/G 6651758|26-G/A 6652094|60-T/C 6652276|10-G/A 6652446|14-G/A 6652850|15-T/C 6652911|22-A/G 6653387|31-C/A   
## 1 1 1 1 1 2 1 1 1 1 1   
## 6653442|7-A/G 6653457|43-C/T 6653666|33-A/G 6653913|54-A/G 6661714|10-A/T 6661819|18-T/C 6665305|19-G/A 100015271|40-A/G 100015651|23-C/T 100016940|6-T/G 100017024|68-G/A   
## 2 1 1 1 1 1 2 1 1 1 1   
## 100018261|61-T/C 100018474|24-G/A 100018954|18-A/G 100019606|34-G/A 100019837|9-G/A 100020506|37-T/A 100020651|11-C/G 100021368|14-C/T 100021399|20-A/C 100021433|22-A/C 100021823|21-T/G   
## 1 1 1 1 1 1 1 2 1 1 1   
## 100022483|30-T/A 100022774|66-T/G 100023022|43-C/T 100023206|43-A/G 100023292|16-A/G 100023396|25-C/T 100024289|11-T/C 100045482|25-C/T 100065022|34-A/G 100065562|43-G/A 100065795|26-G/A   
## 1 1 1 1 1 1 1 1 1 2 1   
## 100066292|25-T/C 100073974|41-A/C 100082647|16-C/A 6650814|43-G/C 6650908|37-A/C 6651113|11-C/G 6651346|28-A/T 6651709|24-A/G 6652049|29-T/C 6652500|45-G/T 6652777|22-A/G   
## 1 1 1 1 1 1 1 1 2 1 1   
## 6653333|13-T/C 6653390|14-T/G 6653414|31-T/C 6653728|20-G/T 6654032|23-T/G 6654037|57-A/G 6657904|10-G/C 6661607|55-C/A 6661700|18-G/A 6662767|16-T/C 6664074|40-T/G   
## 1 1 1 2 1 1 1 1 1 1 1   
## 6664074|44-G/C 6664735|26-T/G 6665238|34-T/C 100124938|57-G/A 100015346|10-T/A 100016456|52-G/C 100016501|31-A/T 100017004|22-C/T 100017283|39-T/G 100017322|41-G/A 100017407|26-G/T   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100017421|12-A/G 100018243|9-T/C 100018879|32-C/A 100019658|67-A/G 100020347|21-G/C 100021567|15-A/G 100021727|64-T/A 100023434|25-T/C 100066346|64-T/C 100066369|51-A/G 100066626|37-G/T   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6631525|11-C/T 6650677|49-C/T 6650829|66-C/T 6650865|22-G/T 6651274|64-A/G 6651327|26-G/A 6651363|38-T/A 6651684|66-A/G 6652046|31-A/G 6652267|48-T/C 6652284|17-T/C   
## 1 2 1 1 1 1 1 1 1 1 1   
## 6652529|31-T/C 6652900|9-A/G 6653610|43-G/T 6653665|46-C/T 6653751|12-A/T 6653876|40-A/G 6654005|53-G/A 6654018|46-G/A 6661150|29-C/G 6661536|5-G/A 6664750|33-C/G   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100103994|12-C/T 100103994|20-G/A 100104021|9-A/G 100015729|18-T/G 100015952|21-T/A 100016302|16-G/A 100016507|10-G/T 100016962|46-C/T 100017543|65-T/C 100018176|18-T/A 100018259|44-T/C   
## 1 1 1 1 2 1 1 2 1 1 1   
## 100019881|23-C/A 100019923|11-A/T 100020081|6-T/A 100020349|28-G/T 100022424|20-G/A 100023400|43-G/T 100044682|9-A/G 100044750|30-A/G 100065250|9-G/T 100065326|31-T/A 100065589|31-A/G   
## 2 1 1 1 2 1 1 1 1 1 1   
## 100066526|17-G/A 100091166|12-G/A 100091166|42-A/G 6650613|48-C/T 6650687|41-T/G 6650796|6-C/T 6650803|47-G/C 6651101|36-C/G 6651528|20-A/T 6651771|12-T/C 6651853|15-T/A   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6652025|35-C/T 6652815|7-T/G 6652936|53-A/C 6653177|8-T/G 6653241|40-G/T 6653293|49-G/A 6653307|12-A/G 6653389|28-A/G 6653538|48-T/C 6653579|57-T/A 6653832|7-T/C   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6661683|57-A/G 6661685|63-G/A 6661816|48-A/G 6661824|42-G/C 6661850|36-A/T 6661890|47-A/G 6665337|42-A/G 100015757|13-C/T 100016204|33-T/C 100017468|57-G/T 100017967|62-C/T   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100018112|46-A/C 100018165|13-C/T 100018718|21-G/A 100019849|5-G/A 100019859|8-G/A 100022136|24-T/C 100022312|53-T/C 100045521|11-T/G 100065432|12-T/G 100065536|20-G/A 100066606|52-G/T   
## 2 1 1 1 1 2 1 1 1 1 1   
## 100082316|6-G/A 100082368|14-T/G 100097022|6-T/C 100108129|36-G/A 6631225|7-T/C 6631997|14-C/T 6650612|10-C/T 6650648|12-C/G 6651035|6-G/A 6651242|13-G/A 6651289|37-A/G   
## 1 1 2 1 1 1 1 1 1 1 1   
## 6651290|54-T/A 6651373|58-C/T 6651393|29-G/A 6651401|31-A/G 6651427|13-G/A 6651437|43-G/C 6651445|36-G/T 6651476|13-C/T 6651646|25-A/G 6651749|48-G/A 6651841|8-T/C   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6652088|32-C/T 6652192|52-C/A 6652260|63-T/C 6652326|50-G/A 6652369|31-T/C 6652422|33-T/C 6652547|9-G/T 6652893|32-T/A 6652909|24-T/G 6652955|18-G/C 6653017|55-G/A   
## 1 1 1 1 1 2 1 1 1 1 2   
## 6653103|52-T/G 6653677|36-T/C 6653708|16-C/G 6653903|37-A/G 6653934|25-C/T 6654040|14-T/C 6654091|9-T/C 6657832|39-T/C 6661183|41-T/C 6661274|44-G/C 6661675|22-T/C   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6663998|37-C/T 6664011|37-G/C 100016463|53-T/C 100016812|38-G/A 100017567|49-A/C 100017961|50-G/T 100018143|16-G/A 100019099|54-T/G 100019383|33-G/T 100019940|39-C/T 100020427|36-G/A   
## 1 1 1 2 1 1 2 1 2 1 1   
## 100020660|8-T/A 100020677|22-A/G 100021361|48-T/C 100021511|43-C/T 100021828|33-C/A 100022057|11-A/G 100022783|26-C/T 100064616|40-A/G 100065171|45-C/G 100065966|15-C/G 100082527|51-C/T   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100082585|40-G/A 100106949|10-G/A 100117044|51-G/C 6650418|9-G/T 6650423|29-A/G 6650818|67-C/T 6651153|49-G/T 6651180|65-A/T 6651287|48-A/C 6651447|19-T/C 6651655|40-A/G   
## 1 2 1 1 1 1 1 1 1 1 1   
## 6651717|7-T/C 6651971|61-A/G 6651981|50-T/G 6652195|35-T/C 6652270|30-C/T 6652411|8-G/A 6652419|17-C/T 6652451|65-G/A 6652920|22-G/A 6653067|56-T/C 6653377|17-C/T   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6653583|28-T/C 6653636|14-A/G 6653697|13-T/C 6653731|66-C/T 6653767|20-G/C 6653770|20-C/G 6653784|35-T/C 6653810|62-C/A 6653854|42-T/C 6653892|54-G/A 6653910|50-T/C   
## 2 1 1 1 1 1 1 1 1 1 1   
## 6654022|30-A/G 6661470|52-C/A 100066269|13-T/C 6662979|27-T/C 6664013|56-T/C 6664771|32-C/T 6665036|59-T/C 100015387|20-A/C 100016289|59-C/A 100017196|51-G/T 100017527|6-T/A   
## 1 1 2 1 1 1 1 1 1 1 1   
## 100017670|46-C/A 100018265|14-C/T 100018491|67-A/C 100019232|26-T/C 100019318|16-T/A 100019703|50-G/A 100019708|6-A/G 100019897|65-G/A 100020477|33-C/T 100022633|31-A/G 100023423|28-C/T   
## 1 1 1 1 1 2 1 1 1 1 1   
## 100064644|53-C/T 100065127|11-C/T 100082124|16-C/G 6632526|27-G/T 6650445|31-C/T 6650584|38-A/G 6650848|20-G/A 6651173|50-C/A 6651298|24-T/G 6651530|41-T/C 6651782|31-G/A   
## 1 1 1 2 1 1 1 1 1 1 1   
## 6651907|9-T/C 6652024|30-A/G 6652131|34-G/A 6652159|67-C/T 6652177|21-C/T 6652210|27-C/A 6652401|28-T/A 6652416|68-C/G 6652713|26-G/C 6652866|10-G/A 6652983|43-C/A   
## 1 1 2 1 1 1 1 1 1 1 1   
## 6653039|43-G/C 6653044|17-A/G 6653092|18-T/C 6653202|68-T/A 6653253|13-C/G 6653255|39-G/T 6653445|25-C/G 6653487|29-C/T 6653527|21-G/A 6653922|36-T/C 6653930|13-A/T   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6654013|57-T/G 6657669|38-C/T 6658619|38-A/G 6661144|14-T/C 6661228|61-G/A 6661239|28-A/G 6661757|61-G/A 6661837|5-T/C 6663958|42-G/C 6664017|22-C/T 6665345|60-G/A   
## 1 1 1 2 2 1 1 1 1 1 1   
## 6665563|37-A/C 6665563|41-G/A 6665563|7-C/T 6666102|24-A/G 100015848|14-C/A 100016751|21-G/A 100017832|10-T/C 100017856|21-A/G 100018301|7-A/G 100019450|10-C/A 100019818|16-G/A   
## 1 1 1 1 1 1 1 1 1 1 2   
## 100019983|13-A/G 100020502|50-G/A 100020602|47-A/G 100065169|68-T/C 100066267|15-G/A 100066657|20-C/G 6632946|54-T/A 6650395|54-T/C 6650450|36-T/C 6650539|5-T/C 6650675|13-G/T   
## 2 1 1 2 2 1 1 1 1 1 1   
## 6650760|49-T/G 6650770|63-T/C 6650778|15-A/G 6650888|42-T/A 6650948|22-G/A 6651067|68-T/C 6651104|14-T/C 6651269|64-A/G 6651380|66-C/A 6651460|39-T/A 6651469|31-G/T   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6651565|25-G/T 6651594|47-T/G 6651714|59-A/T 6651809|19-T/C 6651814|64-A/G 6652119|10-C/T 6652183|53-C/T 6652218|58-G/A 6652272|46-C/A 6652443|56-C/T 6652587|38-G/C   
## 1 1 1 1 2 1 1 1 1 1 1   
## 6652614|24-T/A 6652643|8-A/T 6652647|54-C/A 6652695|37-C/T 6652702|52-A/C 6652729|55-C/G 6652886|48-T/A 6653028|14-A/G 6653065|44-C/T 6653124|7-G/C 6653205|17-C/T   
## 1 1 1 1 1 1 1 1 1 1 2   
## 6653210|45-C/A 6653524|37-T/G 6653532|60-C/T 6653787|34-A/G 6653818|55-C/T 6653820|23-G/A 6653825|25-G/A 6653908|59-C/G 6653938|33-G/A 6656975|12-C/G 6658434|32-G/T   
## 1 1 1 1 2 1 1 1 1 1 1   
## 6661131|30-C/A 6661170|60-C/T 6661460|63-C/T 100082330|10-C/T 6661516|30-G/T 6661542|10-A/G 6661650|9-G/A 6661787|54-G/C 6661807|10-G/A 6663931|44-A/G 6663966|33-A/G   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6664887|16-T/G 6665234|5-T/A 6666170|37-C/T 100016216|6-C/A 100016431|13-A/G 100016980|14-G/C 100017035|18-A/G 100018089|20-C/A 100018299|18-A/G 100019103|66-G/A 100020260|22-G/C   
## 1 1 1 1 1 1 2 1 1 1 1   
## 100020593|29-A/G 100021233|9-G/T 100022402|38-T/A 100022743|53-G/A 100064690|24-G/C 100065349|19-G/C 100065841|23-T/C 100074065|11-G/A 6650412|48-C/T 6650459|40-G/A 6650487|15-T/C   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6650510|49-G/C 6650571|53-C/T 6650575|33-C/T 6650657|31-A/G 6650727|33-T/A 6650764|18-A/G 6650786|30-G/A 6650877|51-A/G 6650982|52-G/T 6650992|26-T/G 6651041|46-A/G   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6651162|25-G/T 6651244|31-C/A 6651284|8-G/C 6651398|18-G/A 6651485|12-A/G 6651517|35-T/G 6651527|40-C/T 6651546|39-T/C 6651644|49-G/A 6651663|43-G/C 6651671|42-C/A   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6651691|10-G/A 6651700|17-C/A 6651734|47-T/C 6651746|20-C/T 6651800|11-A/G 6651813|5-C/T 6651896|64-A/G 6651912|26-C/G 6651917|68-G/T 6652038|34-C/A 6652059|20-C/T   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6652081|56-C/G 6652085|6-G/A 6652121|43-A/T 6652134|47-G/C 6652186|30-C/T 6652189|13-A/G 6652281|62-C/G 6652285|54-C/T 6652290|29-T/C 6652304|61-G/T 6652432|55-C/T   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6652503|20-A/G 6652505|16-A/C 6652521|39-C/T 6652525|37-G/T 6652601|21-T/C 6652602|25-G/C 6652606|48-T/C 6652624|28-T/C 6652668|15-G/C 6652670|16-C/G 6652721|10-T/A   
## 1 2 1 1 1 1 1 1 1 1 1   
## 6652733|37-A/G 6652745|53-A/G 6652752|31-C/T 6652791|49-C/A 6652818|11-T/C 6652862|15-A/G 6652881|22-C/A 6652972|10-T/C 6652998|52-A/T 6652999|57-A/G 6653082|48-T/C   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6653098|9-A/G 6653162|29-G/A 6653274|28-A/G 6653325|64-G/C 6653332|57-G/A 6653357|42-C/T 6653362|53-G/C 6653412|42-A/G 6653426|18-C/T 6653440|10-T/C 6653465|26-C/G   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6653468|58-T/C 6653470|47-G/C 6653503|52-C/T 6653589|18-G/A 6653681|55-A/G 6653716|66-G/A 6653721|50-T/C 6653756|39-T/C 6653768|57-T/C 6653772|52-C/T 6653912|41-A/G   
## 2 1 1 1 1 1 1 1 1 1 1   
## 6653970|10-G/T 6654035|9-A/T 6654089|34-G/C 6657074|8-C/T 6657427|36-T/G 6658142|19-G/A 6658487|31-A/T 6658567|11-A/G 6661106|67-C/A 6661340|59-C/T 6661404|52-G/C   
## 2 1 1 1 1 1 1 1 1 1 1   
## 6661465|25-C/G 6661493|15-T/C 6661592|37-C/T 6661602|55-A/G 6661729|38-A/G 6661755|5-T/C 6661849|5-T/A 6662667|9-T/C 6663069|39-G/A 6663912|29-A/G 6663945|17-A/G   
## 1 1 1 1 1 1 1 2 1 1 1   
## 6665239|6-A/G 6665353|11-A/G 6665974|11-A/T 6666103|68-G/A 100016182|32-A/G 100017836|20-G/A 100017869|6-A/G 100018411|68-A/C 100020222|50-C/G 100021008|5-T/G 100021734|34-T/C   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100021842|6-T/A 100045232|8-G/C 100065195|59-A/G 100074076|12-A/C 100114674|53-G/A 6650380|13-C/T 6650404|10-C/T 6650422|10-A/C 6650471|64-T/C 6650500|18-G/C 6650515|50-A/G   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6650537|13-C/T 6650542|10-G/A 6650554|41-G/A 6650556|9-G/C 6650615|12-C/T 6650633|41-A/C 6650636|55-A/G 6650715|51-A/G 6650784|41-A/G 6650806|54-A/G 6650812|44-C/T   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6650885|45-G/T 6650890|7-G/A 6650891|27-C/G 6650939|41-A/G 6651045|37-G/C 6651063|37-A/C 6651127|50-C/G 6651189|65-G/A 6651213|10-C/G 6651259|15-G/A 6651305|62-C/T   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6651312|67-T/C 6651314|20-C/T 6651471|5-C/A 6651479|37-T/G 6651523|45-A/T 6651524|18-G/A 6651611|23-A/T 6651617|38-A/C 6651627|10-C/A 6651680|16-T/G 6651686|18-G/A   
## 1 1 1 1 1 1 1 1 1 1 2   
## 6651990|27-G/T 6652031|21-T/C 6652068|30-T/C 6652123|48-C/T 6652141|65-C/T 6652156|37-G/T 6652188|11-A/G 6652217|66-T/A 6652220|47-G/A 6652222|50-C/T 6652329|66-G/C   
## 1 1 1 1 1 1 1 1 2 2 1   
## 6652364|41-C/T 6652450|9-A/C 6652454|59-C/T 6652470|43-C/T 6652506|53-A/T 6652539|13-G/A 6652561|39-T/C 6652572|11-T/G 6652637|54-T/C 6652648|60-T/A 6652659|15-A/C   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6652665|12-A/G 6652728|28-T/C 6652751|58-A/G 6652774|48-G/A 6652817|30-A/G 6652845|15-G/A 6652939|61-C/T 6652947|66-T/A 6653004|32-T/G 6653011|14-C/T 6653170|45-A/G   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6653174|64-A/C 6653291|22-A/G 6653324|46-G/A 6653415|50-C/G 6653489|12-A/C 6653514|8-A/G 6653535|20-A/T 6653594|40-G/A 6653646|49-A/T 6653674|54-T/C 6653683|31-C/T   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6653750|55-T/C 6653771|10-A/G 6653779|21-T/C 6653822|27-G/A 6653827|15-A/G 6653858|29-G/T 6653928|36-T/A 6653969|26-C/T 6654051|34-T/C 6654056|9-C/T 6654078|12-T/G   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6657388|11-G/T 6657512|7-T/A 6657941|41-C/T 6658094|46-C/A 6658571|22-C/A 6658640|12-C/T 6661287|22-A/G 6661315|34-C/A 6661316|17-T/A 6661420|51-G/A 6661453|6-G/A   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6661468|17-G/T 6661489|62-C/T 6661552|5-G/T 6661577|44-A/C 6661601|15-G/A 6661629|40-G/A 6661651|60-G/A 6661703|29-A/G 6661728|35-C/T 6662799|24-G/T 6662820|22-T/G   
## 1 1 1 1 1 1 1 1 2 1 1   
## 6662890|34-A/G 6662898|11-T/C 6662977|22-A/G 6664083|6-T/C 6664294|44-T/A 6664720|7-C/A 6665218|24-G/A 6665351|57-C/G 100109477|37-C/T 6665629|41-C/T 6665821|31-C/T   
## 1 1 1 1 1 1 1 1 2 1 1   
## 100016377|14-C/T 100016728|8-C/G 100017376|68-T/C 100018451|6-C/T 100019918|66-C/T 100022411|61-C/G 100064620|27-T/G 100064811|7-G/A 100065350|20-A/G 100109953|9-A/G 6650460|21-T/C   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6650519|57-T/C 6650579|51-T/C 6650580|37-G/A 6650607|66-G/A 6650671|45-C/A 6650689|52-T/A 6650703|19-G/A 6650815|7-A/G 6650944|60-T/A 6650965|12-G/T 6651031|38-C/A   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6651069|41-G/C 6651089|58-C/G 6651139|39-G/A 6651355|22-C/T 6651367|34-G/T 6651487|9-A/G 6651578|26-T/C 6651593|32-G/C 6651619|40-T/C 6651620|38-C/T 6651675|34-C/G   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6651806|49-A/C 6651821|15-A/G 6651825|51-A/T 6651968|21-G/A 6651983|9-A/T 6652057|5-C/T 6652073|37-A/C 6652074|10-G/A 6652115|60-T/G 6652197|23-A/G 6652244|39-C/T   
## 1 1 1 2 1 1 1 1 1 1 1   
## 6652249|29-C/T 6652338|5-C/T 6652392|7-T/C 6652466|57-C/T 6652514|66-T/C 6652554|50-A/G 6652556|53-T/C 6652589|8-C/A 6652749|25-T/C 6652753|11-T/G 6652776|45-A/T   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6652806|6-C/T 6652834|26-T/C 6652885|65-C/G 6652929|66-T/A 6652935|47-C/T 6653073|5-G/T 6653088|16-G/A 6653093|44-G/A 6653104|55-C/T 6653436|11-T/C 6653497|6-C/T   
## 1 1 2 1 1 1 1 1 1 1 1   
## 6653639|65-G/T 6653645|43-C/G 6653769|16-G/C 6653927|44-C/T 6653953|41-C/T 6653987|61-A/G 6653993|15-A/G 6654009|23-C/T 6656879|21-T/C 6656932|34-C/G 6657077|25-T/C   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6657152|47-T/C 6657200|7-T/C 6657228|8-C/T 6657447|9-A/T 6657510|13-A/G 6657518|14-A/C 6657616|11-A/G 6657889|17-C/G 6657989|13-T/G 6657992|32-T/C 6658007|29-T/A   
## 1 1 1 1 1 1 2 1 1 1 1   
## 6658058|7-C/G 6658330|11-C/G 6658349|12-A/C 6658401|16-G/T 6658424|11-A/T 6658451|54-A/G 6658473|36-A/C 6658548|12-C/A 6658667|17-A/G 6661128|54-T/A 6661132|53-C/T   
## 1 2 1 1 1 1 1 1 2 1 1   
## 6661145|48-C/T 6661169|16-A/C 6661418|24-T/G 6661447|57-G/A 6661551|43-A/T 6661606|48-G/C 6661621|22-T/C 6661667|62-A/G 6661716|24-C/T 6661770|21-C/T 6662676|12-G/A   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6662737|6-A/T 6662747|22-A/G 6662778|8-A/G 6662831|7-G/C 6662962|22-T/G 6662984|35-A/G 6663913|23-G/A 6663996|47-G/T 6664080|40-C/A 6664712|24-G/A 6665849|24-T/C   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6665849|27-A/G 100019306|41-G/C 100023120|53-T/C 100045071|11-G/T 100073787|12-T/C 100073808|38-G/A 100082396|45-C/T 100082676|61-G/A 6650780|18-C/T 6651956|47-C/T 6652018|68-G/A   
## 1 1 1 2 1 1 1 1 2 1 1   
## 6652299|52-G/C 6652898|20-T/A 6653146|40-G/A 6657342|25-G/C 6657451|13-T/C 6657720|20-T/G 6657882|21-C/T 6658021|6-G/C 6658104|7-T/G 6658212|12-A/G 6658246|8-C/T   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6661212|11-A/C 6661231|65-C/G 6661373|56-C/G 6661472|51-T/C 6662632|29-C/A 6662644|9-A/C 6662718|14-A/G 6662788|5-C/G 6663015|45-C/G 6663056|27-G/A 6663101|48-T/C   
## 1 1 2 1 1 1 1 1 1 1 1   
## 6663942|12-C/G 6663943|19-C/G 6664030|20-T/A 6664734|37-C/T 6665050|6-C/T 6665686|46-A/G 100064830|15-G/C 100073523|7-G/T 100073850|23-A/C 100074130|14-T/C 100085916|27-G/T   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100085918|17-C/T 100093520|12-T/C 100102104|19-G/T 100104847|9-C/T 100107045|42-G/A 100111102|5-T/C 100118833|7-G/A 100118214|9-G/A 6661395|67-G/A 6661549|61-G/A 6664299|8-G/C   
## 2 1 1 1 1 1 1 1 1 2 1   
## 6661899|30-T/C 100117994|5-C/A 100118292|6-C/T 100120255|8-G/T 100122091|12-G/A 6658340|10-T/A 6662816|5-C/A 6662936|6-T/A 6662936|8-A/G 6662964|8-C/T 6662966|17-G/A   
## 1 1 2 1 1 1 1 1 1 1 2   
## 6664885|14-G/A 6661031|8-G/A 100066612|18-A/G 6652306|13-T/C 100085941|14-G/T 100018734|36-T/A 6661163|12-C/T 100065635|32-C/T 6661774|57-G/A 100082623|35-G/A 100065110|61-C/T   
## 1 1 1 2 1 2 2 2 2 2 1   
## 6661113|35-G/T 100118834|24-T/A 100065734|46-A/C 6663988|26-G/A 6661432|6-G/T 6661894|14-C/T 100025027|41-A/T 100065037|22-A/G 6661398|17-C/G 6661689|5-A/G 6664901|14-T/C   
## 1 2 1 1 1 1 1 1 1 1 1   
## 6661325|52-G/A 100024800|55-T/C 6661569|21-G/T 100015330|20-C/A 100017807|41-C/T 100021430|18-A/C 100021922|61-T/G 100024081|21-C/T 100044596|39-C/T 6651341|31-A/G 6652981|11-C/A   
## 1 2 1 1 1 1 1 1 1 1 1   
## 100065893|67-C/T 100015238|36-T/C 100015491|32-C/T 100015884|7-G/A 100019050|23-G/A 100022813|55-A/C 6653072|57-C/T 100016062|38-A/G 100017135|23-C/G 100021766|9-T/A 100022076|54-G/A   
## 2 1 1 1 1 1 2 2 1 1 1   
## 6661377|53-C/T 100015975|43-A/T 100016187|49-G/C 100024150|52-T/G 100018712|5-A/C 100021390|26-A/G 100045683|24-T/C 6661840|10-C/T 100016255|15-T/A 100020380|45-T/G 100021355|11-G/T   
## 1 1 1 1 1 1 2 1 1 1 1   
## 100021470|64-A/G 100023138|54-G/A 100023921|57-C/T 6650819|43-C/T 6653757|13-T/G 100015309|36-C/A 100015511|36-A/G 100015825|32-G/T 100016469|15-C/A 100019560|67-A/T 100021988|8-A/G   
## 1 1 1 2 1 1 1 1 1 1 1   
## 100022638|31-A/T 100022674|60-A/G 100023456|47-T/C 100023464|21-G/T 100023506|63-G/C 100121198|44-C/T 6664022|46-T/C 100017302|21-A/C 100017884|42-T/C 100020887|11-G/A 100022100|32-C/G   
## 1 1 1 1 1 1 2 1 1 1 1   
## 100022978|31-G/T 100064951|7-C/T 100108048|25-G/C 6653000|22-C/T 6661699|44-C/T 100015643|21-A/G 100016494|59-G/A 100017300|12-G/T 100017465|6-C/A 100019558|59-A/C 100021942|23-G/A   
## 2 1 1 1 1 1 1 1 1 1 1   
## 100022249|52-T/C 100022694|55-C/G 100022788|12-C/T 100101046|61-C/A 6652314|37-T/C 100015332|7-C/A 100015389|56-T/A 100015557|20-C/G 100017329|58-G/T 100018963|60-A/C 100019082|25-A/G   
## 2 1 2 2 1 1 1 1 1 1 1   
## 100019182|47-T/A 100020256|17-T/G 100020398|8-A/C 100021013|48-A/T 100021289|8-A/G 100023421|10-T/G 6653492|18-A/G 6661385|64-G/C 6661806|68-G/A 100017094|36-C/T 100017357|22-T/C   
## 1 1 1 1 1 1 1 1 2 1 1   
## 100018276|13-A/G 100018426|49-A/T 100018952|47-A/T 100021643|42-A/T 100022068|8-T/C 100022755|51-G/A 100066666|24-G/A 6661519|31-A/T 100015745|7-C/T 100018424|55-T/A 100021037|43-A/C   
## 1 1 2 1 1 1 2 1 1 1 1   
## 100021847|31-C/T 100022744|13-G/C 100023381|30-A/G 100023472|27-C/T 100023477|8-T/G 100024933|20-T/G 6651050|34-T/C 6652421|32-C/G 100082161|17-G/C 6661817|22-G/A 6665065|47-C/T   
## 1 1 1 1 1 1 2 1 2 1 1   
## 6666515|7-G/A 100015276|20-C/T 100016849|33-A/G 100018157|49-A/G 100018512|6-C/A 100019166|40-G/A 100019599|68-C/T 100020395|68-C/T 100020496|40-T/C 100022054|30-T/C 100022238|35-T/C   
## 1 1 1 2 1 1 2 2 1 1 1   
## 100022761|21-C/T 100064714|31-A/C 100082512|27-G/T 6635566|26-T/G 6651319|63-C/T 100101042|27-A/G 100015522|21-A/T 100015635|48-A/C 100016324|17-G/C 100017167|42-A/G 100017270|46-A/G   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100018878|51-C/T 100019810|41-A/G 100020422|49-T/G 100021781|44-T/A 100022052|36-T/A 100022732|37-A/G 100023771|42-A/T 100064904|9-C/T 100066133|22-A/T 6635226|21-A/G 6661769|64-T/A   
## 2 2 2 1 1 1 1 1 1 1 2   
## 100015503|66-A/T 100015669|26-A/G 100016926|66-A/G 100017163|47-A/G 100017930|44-G/A 100018643|57-G/A 100019627|11-G/A 100019775|26-T/C 100020011|13-C/A 100020180|30-T/A 100020794|35-G/A   
## 1 1 1 1 2 1 1 2 1 1 2   
## 100022441|55-A/G 100065577|55-T/C 100066375|31-C/T 100101063|14-G/A 6634311|8-T/C 6650564|10-C/G 6651449|21-G/A 100015590|56-T/C 100015813|59-T/A 100015865|6-C/T 100015966|35-T/C   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100016299|67-G/A 100017046|59-A/G 100017306|20-C/T 100017681|59-G/A 100018541|45-C/T 100019001|52-T/C 100019248|51-C/A 100019357|10-A/C 100020167|8-T/C 100020584|49-G/A 100020830|34-G/T   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100021518|64-T/G 100023323|17-A/G 100065274|22-T/A 100066055|6-T/C 6652294|28-T/C 6661350|27-G/A 100015979|10-G/A 100016232|12-A/G 100016804|11-G/T 100016918|64-T/A 100017355|38-C/A   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100018239|64-C/A 100018653|43-T/C 100019075|38-G/C 100020739|29-A/G 100022196|19-G/A 100022506|24-C/G 100022716|15-T/C 100065001|58-T/A 6661682|7-T/C 100016459|9-T/C 100016800|17-T/A   
## 1 1 1 1 1 2 1 1 1 1 1   
## 100016857|32-A/T 100016901|25-G/A 100017304|40-T/G 100018018|24-G/T 100018056|56-G/C 100018188|36-G/T 100018521|14-G/A 100019406|13-G/A 100019617|68-C/A 100020206|45-C/G 100021877|23-T/G   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100022598|56-C/T 100022715|29-C/T 100022769|37-G/A 100023124|68-T/G 100045390|32-G/A 100064869|18-A/G 100066159|27-C/T 6651348|40-T/G 6651910|25-A/T 6661267|31-G/A 6661407|12-G/C   
## 1 1 1 1 1 1 1 2 1 1 1   
## 6661471|46-G/T 100015328|40-A/C 100015329|5-T/A 100015695|23-C/T 100015994|62-A/T 100016280|42-G/C 100016310|50-G/A 100017976|8-T/G 100018090|15-T/C 100018376|15-G/A 100019811|9-A/G   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100019879|32-T/C 100020836|42-T/G 100020897|56-T/C 100020918|25-A/G 100022084|40-A/G 100022253|28-T/C 100022347|11-T/G 100022822|20-C/T 100022863|16-C/G 100064727|32-C/G 100064762|17-A/C   
## 1 1 2 1 1 1 1 1 1 1 1   
## 100065060|19-C/T 100065198|28-C/T 100065497|6-G/A 100066169|37-C/A 100066413|57-T/G 100066518|25-A/C 6650606|12-A/G 6650782|37-G/A 6651161|26-A/T 6651343|64-C/T 6651987|65-G/C   
## 2 2 1 1 1 1 1 1 1 1 1   
## 6652583|9-C/G 6653986|35-G/A 100017405|46-T/C 100018360|48-T/C 100020046|11-T/G 100020184|33-A/T 100020356|17-C/T 100021172|11-C/T 100021739|23-A/G 100022407|43-A/G 100022586|32-A/G   
## 1 1 1 1 1 1 1 2 1 1 1   
## 100023347|40-A/G 6630669|54-A/C 6651087|52-A/G 6653823|53-T/C 6661427|45-A/T 6664050|11-T/C 100015339|30-G/A 100015780|53-A/C 100016477|49-C/T 100016846|6-A/G 100017534|5-A/C   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100018524|64-G/T 100018715|45-A/C 100019637|34-T/C 100019730|38-A/G 100020004|34-G/C 100020093|64-G/T 100020177|61-C/T 100020736|62-T/C 100021876|36-T/C 100022251|18-A/C 100022479|48-G/A   
## 1 1 1 1 1 1 1 2 1 1 1   
## 100023192|44-C/T 100065374|28-T/A 100065413|68-G/T 100065460|57-T/A 100065786|62-T/C 100065981|32-G/A 100093548|6-T/C 6635925|28-G/A 6651303|15-G/A 6652226|61-A/C 6652595|25-T/C   
## 1 1 1 1 2 1 2 1 1 1 2   
## 6652880|30-G/A 6653288|5-T/C 6661743|26-G/A 100015258|11-G/A 100015334|11-A/C 100015520|48-T/A 100016206|60-T/G 100016803|55-T/A 100016999|24-T/C 100017691|42-G/C 100018254|14-G/C   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100018691|53-C/T 100018832|49-T/A 100018836|30-T/A 100018972|63-T/C 100018993|58-G/A 100019968|28-T/C 100019971|65-T/G 100020134|53-C/T 100020237|19-C/T 100020353|50-A/G 100021532|8-T/G   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100022232|46-T/C 100022564|55-G/A 100064590|10-C/G 100064752|47-G/T 100066482|40-C/G 100066499|21-A/C 100082126|5-A/G 100082673|16-C/G 100118390|28-A/G 100118390|5-C/G 6650749|8-A/C   
## 1 1 1 1 1 1 2 1 1 1 1   
## 6650993|48-A/G 6651187|10-A/T 6652437|24-T/C 6652887|56-G/A 6653102|62-A/C 6653358|49-T/A 6661200|10-A/G 6661277|39-G/A 6661479|25-C/A 6665776|10-G/A 100116183|6-G/A   
## 1 1 1 1 2 1 1 1 1 1 2   
## 100065388|52-T/C 100015585|60-A/G 100016513|5-C/A 100016711|48-G/A 100017104|21-C/A 100017773|59-C/T 100017895|25-A/T 100018069|40-A/G 100018279|30-C/A 100018386|10-G/C 100018698|26-G/A   
## 2 1 1 2 1 2 1 1 1 1 1   
## 100021026|29-A/G 100021644|9-C/A 100022215|30-A/G 100023511|29-G/A 100065011|9-G/T 100065481|45-G/C 100065665|18-T/G 100082041|35-T/G 100082540|39-C/T 6635352|11-C/T 6651637|46-A/C   
## 1 1 1 1 1 1 1 2 1 1 1   
## 6652697|44-G/A 6652848|23-G/T 6661188|24-G/C 6661506|68-A/T 6661846|36-C/G 100121512|16-T/C 100015223|24-C/T 100015336|36-G/A 100016018|57-G/C 100016257|18-G/A 100016363|39-C/T   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100016533|62-C/T 100017334|62-C/T 100017905|42-A/G 100018782|32-C/A 100018840|12-A/G 100018918|28-G/A 100018973|26-T/G 100019583|32-G/T 100020635|19-T/C 100020952|67-A/G 100021607|12-C/T   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100021759|51-G/A 100022391|27-T/C 100022668|57-T/C 100065738|47-G/C 100066164|11-G/A 100066550|5-T/C 6633324|49-T/G 6634529|30-T/C 6651763|8-A/T 6651994|28-A/G 6652616|33-T/C   
## 1 1 1 1 1 2 1 1 1 1 1   
## 6653336|20-T/C 6653857|60-T/A 6661332|57-A/T 6661613|21-G/A 100015558|12-T/G 100016614|13-A/G 100016893|9-G/A 100016974|14-T/C 100017016|14-G/C 100018076|32-A/G 100019206|6-T/G   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100019217|46-A/T 100019384|38-C/T 100019646|24-T/A 100019874|10-C/G 100019964|12-C/A 100020293|37-A/G 100020842|17-G/A 100021693|26-T/C 100022050|68-A/T 100022979|40-A/G 100023492|66-T/C   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100045668|41-G/A 100065160|26-C/T 100066259|47-G/A 6630074|25-T/C 6651026|5-A/G 6651431|37-C/G 6651540|51-T/C 6651708|27-C/T 6652397|25-T/C 6653258|20-A/C 6661295|56-C/A   
## 1 1 1 1 1 1 1 1 2 1 1   
## 100016658|9-C/T 100016823|19-A/C 100017190|25-A/G 100017629|18-T/C 100018573|66-T/A 100019552|33-T/G 100021046|26-A/G 100022548|38-A/C 100065206|29-C/A 100065846|12-T/A 6651279|28-G/C   
## 2 1 1 1 2 1 1 1 1 1 1   
## 6652199|28-G/A 6652400|17-C/T 6652445|11-A/T 6653155|9-C/G 6653256|29-G/A 6661317|35-T/C 6663970|38-G/C 6665305|7-T/C 100015212|40-T/C 100015773|62-T/C 100016229|66-G/T   
## 1 1 1 1 1 1 2 1 1 1 1   
## 100017966|44-G/A 100018540|41-C/G 100019145|8-G/A 100020607|26-G/A 100021569|14-G/A 100023034|23-C/T 100023386|11-T/C 100065690|24-C/G 6650623|27-T/C 6650909|20-C/G 6651336|17-C/T   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6651419|53-T/C 6652696|7-A/G 6652736|50-T/A 6653280|14-G/T 6653295|57-T/C 6653940|33-C/G 6661206|18-A/G 6661327|42-G/C 6664003|47-C/T 100015464|37-A/T 100015704|41-G/A   
## 1 1 1 1 1 1 1 1 2 1 1   
## 100016862|45-C/T 100019871|11-C/T 100020987|40-T/C 100021296|8-G/A 100065560|20-C/G 100066263|36-C/T 100066672|61-G/C 100082462|27-A/G 6632122|60-C/T 6650958|39-G/T 6651020|25-G/A   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6651285|11-A/G 6651625|35-A/G 6651661|21-C/A 6651716|31-A/G 6651796|30-T/G 6651885|10-A/T 6652069|22-A/G 6652117|17-A/G 6652234|42-G/A 6653188|36-T/C 6653368|52-A/G   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6661580|47-C/T 6661803|14-T/C 6661812|53-C/T 6661866|32-G/C 100015736|43-G/A 100016141|36-G/A 100017142|64-C/T 100019476|8-T/C 100022055|56-G/A 100022078|12-T/C 100022886|24-G/A   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6631211|9-C/T 6651047|34-T/G 6651407|46-C/T 6651481|28-G/C 6652585|52-T/G 6653252|68-G/A 6653882|52-A/T 6653901|21-A/T 6654029|48-A/G 100015720|28-G/T 100016789|20-G/T   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100016796|38-G/A 100017412|8-A/G 100017613|42-T/G 100017642|45-C/A 100017690|28-G/T 100018660|67-C/T 100020040|40-T/A 100021191|5-G/C 100023009|12-A/G 100065757|7-G/C 100066245|18-C/T   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100074042|5-T/C 100082359|43-C/T 6635615|63-A/T 6650495|22-G/C 6650509|12-C/A 6651034|16-A/T 6651369|18-C/G 6651472|63-T/C 6651525|65-T/G 6651657|19-G/A 6651750|54-T/C   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6652293|6-T/G 6652474|14-G/A 6653662|55-G/C 6661543|6-A/G 100017915|15-G/A 100020329|6-T/C 100021269|67-C/T 100021647|7-C/G 100065434|44-T/G 100091128|19-C/T 6630649|30-T/C   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6631485|63-C/T 6634232|23-C/T 6650379|29-C/T 6650507|19-A/C 6650854|20-G/A 6651417|34-C/T 6651649|55-G/A 6651797|46-C/T 6652137|50-T/C 6652171|14-G/C 6652353|59-C/T   
## 1 2 1 1 1 1 1 1 1 1 1   
## 6652439|17-A/C 6652481|49-A/G 6652592|44-C/T 6652631|8-T/C 6652759|5-G/C 6653033|21-C/A 6653086|60-T/C 6653403|58-C/G 6653441|17-C/A 6653651|15-A/G 6653652|24-C/T   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6653717|62-T/A 6653911|22-G/C 6657418|43-C/G 6658319|40-G/A 6661213|21-C/T 6661527|23-T/C 6664003|60-C/T 100017332|29-G/A 100018422|17-T/C 100019803|28-C/T 100020227|22-C/T   
## 1 1 1 1 1 1 2 1 1 1 1   
## 100021230|36-G/A 100045732|32-A/G 100065400|55-A/G 100065695|10-T/A 6650641|39-G/C 6650730|37-C/T 6651079|5-A/T 6651096|56-T/C 6651302|27-C/G 6651575|42-A/G 6651609|46-G/A   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6651712|16-T/C 6651755|6-C/G 6651927|7-C/T 6652423|26-A/G 6653022|23-G/C 6653024|17-C/T 6653143|11-A/G 6653233|66-T/A 6653287|46-C/T 6653308|9-A/G 6653555|27-A/C   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6653600|5-T/C 6653915|45-T/G 6653995|60-T/C 6657836|14-A/G 6661227|16-C/A 6661262|58-G/T 6661434|38-G/T 6661641|45-A/G 6661702|15-A/G 6662581|37-A/T 100114018|47-C/T   
## 1 1 1 1 2 1 1 1 1 1 1   
## 100016369|9-A/G 100017864|12-A/C 100018488|65-A/G 100018874|30-C/T 100022833|43-A/C 100045516|20-A/G 100065233|14-C/G 100065518|13-T/G 100065693|58-C/T 100066101|12-T/C 6633196|52-G/C   
## 1 1 1 1 1 1 1 1 1 1 2   
## 6633443|50-C/G 6650488|44-T/C 6650661|48-G/C 6650800|48-C/T 6650825|39-G/A 6650845|36-C/T 6650876|20-T/G 6651093|21-T/C 6651267|9-G/A 6651306|19-G/A 6651379|44-C/T   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6651554|67-T/C 6651736|43-T/C 6651932|30-T/C 6651941|51-C/T 6652116|48-C/T 6652661|48-C/T 6652756|60-T/C 6652829|67-A/G 6653016|28-G/A 6653035|59-T/C 6653400|19-A/T   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6653480|48-C/A 6653764|58-T/G 6654093|42-A/G 6661397|22-T/G 6663931|67-C/G 6663957|68-G/A 6663967|43-G/C 6665630|56-C/T 100017995|7-C/G 100020113|15-A/T 100022566|30-T/C   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100044990|7-T/C 100065049|7-G/T 100066339|40-A/G 100082461|32-T/A 6632579|11-G/A 6650828|56-C/T 6650907|12-G/C 6650924|57-A/T 6651078|6-G/A 6651186|45-G/A 6651357|21-G/A   
## 1 1 1 1 2 1 1 1 2 1 1   
## 6651533|11-T/C 6651835|18-A/G 6651845|5-C/T 6652615|62-G/A 6652654|38-A/G 6652959|31-C/A 6652967|19-C/T 6653003|36-G/C 6653135|53-G/T 6653227|62-A/G 6653345|29-G/T   
## 1 1 1 2 1 1 1 1 1 1 1   
## 6653424|16-A/C 6653449|26-T/C 6653581|57-G/C 6653676|29-A/G 6653712|15-T/C 6653723|10-C/T 6653956|18-A/G 6654001|23-C/A 6658504|15-C/A 6658614|43-T/G 6661202|35-A/G   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6661234|44-T/C 6661397|27-C/T 6661731|51-C/A 6661793|54-A/G 6663947|19-T/G 6664041|32-A/G 6664042|66-G/A 6664043|13-T/A 100017392|44-T/G 100020618|50-C/T 100022663|33-G/A   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6630289|20-G/C 6650619|36-T/C 6650638|22-A/C 6650699|38-T/C 6650728|58-T/C 6650755|23-T/A 6650783|14-G/A 6650849|14-T/C 6650880|67-A/G 6651095|41-C/T 6651245|18-T/C   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6651292|26-C/G 6651352|20-T/C 6651467|62-G/C 6651557|42-C/T 6651631|26-C/T 6651664|24-T/C 6651688|48-C/T 6651718|35-C/T 6651795|51-C/T 6651923|42-T/C 6651965|39-C/T   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6652219|19-T/C 6652378|63-C/T 6652434|66-A/C 6652655|53-T/G 6652722|31-C/A 6652830|22-T/C 6652882|43-C/A 6653040|42-C/T 6653271|6-A/G 6653385|63-G/T 6653386|12-C/T   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6653418|27-T/A 6653450|16-A/G 6653476|17-G/C 6653520|26-A/G 6653763|12-G/A 6653916|15-T/C 6654026|50-T/C 6654061|33-A/G 6657577|47-G/A 6657800|39-C/A 6658145|22-C/T   
## 1 1 1 1 1 1 1 1 1 2 1   
## 6658508|25-A/G 6661100|58-G/C 6661185|17-G/C 6661209|14-C/T 6661230|12-C/T 6661236|16-T/C 6661314|22-A/C 6661446|29-G/A 6661535|11-G/A 6661559|28-T/C 6661597|46-G/C   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6661642|45-G/T 6661657|60-G/A 6661731|68-A/G 6661796|25-A/G 6662683|15-T/C 6664747|36-A/C 6665469|54-T/A 6665629|23-C/G 100023210|29-C/A 100065681|26-G/T 100114697|13-C/G   
## 1 1 2 1 1 1 1 1 1 1 1   
## 6630523|63-G/A 6650409|45-T/C 6650528|28-G/T 6650721|49-C/T 6651065|27-G/T 6651098|23-T/C 6651125|47-G/A 6651426|10-G/A 6651605|61-C/A 6651634|10-G/C 6651759|12-C/A   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6651815|20-A/C 6652098|62-G/A 6652125|13-C/T 6652182|12-A/G 6652205|23-G/T 6652340|36-A/G 6652361|22-A/G 6652367|17-C/A 6652519|22-A/T 6652681|7-T/C 6652787|16-C/A   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6653095|8-G/T 6653128|9-G/T 6653131|30-G/A 6653340|41-C/T 6653516|66-C/G 6653855|60-C/A 6654020|41-T/C 6654087|18-G/A 6657400|14-C/T 6658359|12-G/A 6661176|55-C/G   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6661182|18-C/T 6661371|21-A/G 6661403|66-A/C 100065611|31-A/C 6661497|12-G/A 6661654|59-A/G 6662907|21-A/G 6663946|23-C/G 6665056|53-C/T 6665628|28-C/A 100019769|39-T/C   
## 1 1 1 2 1 1 1 1 1 2 1   
## 100082375|66-T/G 100082404|55-T/C 6650592|12-C/A 6651184|37-G/A 6652576|37-G/T 6652672|55-C/T 6653304|23-A/T 6656915|10-G/T 6657307|34-A/T 6657558|38-C/T 6658381|25-T/C   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6658521|6-G/C 6661752|23-A/C 6664327|23-G/A 100044751|5-A/G 100085984|13-G/A 100115531|5-T/A 6643578|12-A/G 100106109|11-G/A 100113138|5-T/G 100117994|11-T/A 6662821|6-T/A   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6664383|8-A/G 6665284|5-C/G 6665328|8-T/A 6665629|20-C/G 100118214|11-C/A 6663102|10-G/A 100021042|56-T/C 100090841|7-C/A 100103683|13-G/A 100103683|6-A/T 100106227|13-C/A   
## 1 2 1 1 1 1 2 1 1 1 1   
## 100106247|9-T/A 100111488|6-C/G 100112338|6-T/G 100114623|5-C/G 6644428|5-T/A 6647555|5-C/A 6648501|8-A/G 6648560|7-T/C 6658337|6-C/G 6664325|9-C/T 6664355|7-C/T   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6664406|5-G/T 6664885|10-C/T 6665134|5-A/G 6665147|13-C/T 100065344|49-T/C 6661457|44-C/T 6661867|13-G/A 6661122|26-C/T 100064630|57-A/G 100025554|68-T/A 6658677|32-C/G   
## 2 1 1 1 2 1 1 1 2 1 1   
## 6635413|16-T/A 6661764|43-C/A 6652801|27-G/A 100024646|8-G/C 100066569|63-G/A 6652374|43-T/C 6661449|54-A/C 6661688|9-G/T 6661583|7-C/T 6661219|45-G/A 100016118|67-A/C   
## 1 1 1 1 1 2 1 2 2 1 1   
## 100065968|17-C/T 6664008|7-T/G 100019909|40-A/G 100024919|19-A/C 100021772|52-T/C 100066372|27-A/G 100091350|43-A/C 100017975|34-A/G 100045781|34-C/A 6652884|53-G/A 100017252|27-G/A   
## 1 1 1 2 1 1 1 1 1 1 1   
## 100017894|53-G/A 100022254|26-T/A 6632275|61-T/C 100065115|49-T/C 100065825|30-T/C 6654008|51-C/T 6653230|18-T/G 100020850|15-T/A 100024608|28-A/G 100065720|36-C/T 100019004|19-T/C   
## 1 1 2 1 1 1 1 1 1 1 1   
## 100022949|21-T/C 100024718|58-G/A 100065076|9-G/C 6650868|53-G/A 100017101|27-T/G 100017766|10-C/A 100019793|62-T/A 100021136|57-G/A 100021706|33-T/C 100025017|58-T/C 6652036|20-T/C   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100015261|30-G/A 100015698|55-A/C 100016039|28-T/C 100021704|31-A/T 100021798|6-G/A 100022137|6-T/C 100022883|14-A/G 100023375|24-A/C 100064876|34-G/A 100022317|10-A/G 100065186|8-T/C   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6653805|57-G/C 100021710|10-A/G 100023305|24-G/A 6634600|17-T/C 6650598|62-C/A 100017818|14-T/G 100020277|67-T/G 100020322|14-C/T 100021252|30-G/A 100022007|39-C/T 100022967|55-T/C   
## 1 1 1 1 1 1 1 1 2 1 1   
## 100023231|52-G/C 100024979|12-A/T 6651448|5-C/A 6661619|36-C/T 100101013|46-C/T 100015916|40-T/G 100019381|29-T/C 100021309|54-A/G 100022531|25-T/C 100022877|17-A/C 100023365|32-C/T   
## 1 1 1 1 2 1 1 1 1 1 1   
## 100023869|51-T/A 100066103|5-G/A 100066389|65-G/C 6652703|57-T/C 100019288|33-T/C 100020549|44-T/G 100020551|60-A/T 100023117|6-G/T 100023343|62-G/A 100065070|10-C/T 100119322|60-G/T   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6653215|23-A/C 100015905|30-T/A 100018538|19-A/G 100020139|46-T/C 100020548|9-A/C 100065378|43-C/T 100065666|20-A/T 100065687|58-C/T 6651010|63-C/T 6651023|13-C/T 6651465|19-A/G   
## 1 2 1 1 1 1 2 1 1 1 1   
## 6653507|50-C/G 6661164|56-C/G 100015555|49-G/A 100017215|20-C/T 100018040|51-T/A 100018557|8-A/C 100019185|63-C/G 100019688|44-C/T 100023075|63-C/G 6630180|30-A/G 100015432|27-G/A   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100017493|63-A/G 100020399|26-G/A 100020528|67-A/G 100021151|33-C/G 100021753|16-G/A 100021795|51-G/A 100062072|14-A/C 100066634|26-T/A 6661693|17-A/G 100015331|61-T/C 100015609|28-G/A   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100017169|13-G/A 100017928|37-T/A 100019505|12-C/A 100020075|44-G/T 100020413|29-G/A 100021373|46-G/A 100021417|26-A/C 100022461|56-A/G 100022969|9-G/A 100023275|19-T/C 100082212|44-A/G   
## 1 1 1 1 1 1 1 1 2 1 1   
## 6652622|54-G/A 6653084|57-C/G 6653710|21-C/T 6653840|32-A/T 100021632|19-T/C 100022984|17-G/C 100064905|26-T/A 100015960|29-G/A 100016761|32-C/T 100017811|61-T/C 100019007|29-T/C   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100020970|16-G/A 100065097|13-T/C 6651396|51-T/G 6651430|31-C/T 100015246|12-A/G 100017606|48-T/C 100018953|27-G/C 100019018|13-A/G 100020129|19-G/A 100020404|28-A/G 100020733|17-G/A   
## 1 1 1 1 1 1 1 1 1 1 2   
## 100021724|12-A/C 100066663|43-G/A 100122660|5-A/G 6630550|32-T/C 6652105|37-A/G 100015837|30-T/C 100016214|35-G/T 100017908|21-G/A 100019267|32-G/A 100023141|5-C/T 100023174|41-C/T   
## 1 1 2 1 1 1 1 1 1 1 1   
## 100064755|8-G/A 6651656|34-G/A 6651767|59-G/C 6664728|67-C/T 100018065|63-T/A 100019510|9-G/A 100019632|22-T/C 100019754|7-A/T 100020251|60-G/A 100021712|18-T/A 100044571|14-T/G   
## 1 1 1 1 2 1 1 1 2 1 1   
## 6661691|15-C/T 6663917|15-C/T 100018085|21-A/G 100019876|24-A/C 100020554|42-G/T 100022262|60-C/A 100023321|57-A/G 100065480|65-T/A 6652163|42-T/G 6661278|34-C/G 6661299|21-G/T   
## 1 1 1 1 1 1 1 2 1 1 1   
## 100016113|5-T/A 100018753|18-C/A 100022995|26-G/A 100045005|36-T/A 100065425|18-T/G 100065813|42-A/C 100066450|34-C/G 6652607|6-A/G 6653544|67-T/C 6661463|59-T/G 6661534|24-C/T   
## 1 1 1 2 1 1 2 1 1 1 1   
## 100020053|13-A/T 100020534|56-C/G 100020747|66-T/A 100022664|19-A/G 100023314|12-C/T 100024345|29-C/T 100065655|8-A/T 100082306|16-G/C 6632614|14-G/C 6650544|61-G/A 6661521|5-G/A   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6661754|5-A/T 100017623|23-C/T 100019111|65-T/A 100020626|26-A/C 100022838|5-C/T 6661655|44-C/A 100015424|32-C/A 100017638|47-T/C 100019862|5-A/G 100064626|46-C/T 100066576|33-T/C   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100082421|35-G/T 100082421|56-A/T 6661595|45-G/A 100018565|14-C/T 100019547|16-A/T 100021316|68-A/T 100066021|13-T/C 100066577|66-T/C 6635995|53-T/G 6650794|31-T/C 6651294|52-C/T   
## 1 1 1 2 1 1 1 1 1 1 1   
## 6661643|39-A/C 6665642|53-T/C 100017091|53-T/C 100018288|5-C/T 100019411|13-C/T 100022970|53-A/G 100044935|38-C/G 100065133|26-G/A 100065604|17-G/A 6653270|12-C/T 100082437|5-G/T   
## 1 1 1 1 2 1 2 1 1 1 1   
## 100017079|68-T/A 100018306|21-T/A 100065207|61-C/A 6651674|58-G/A 6661762|25-C/T 100016541|14-A/T 100019240|64-C/A 100022760|39-A/C 6661631|14-G/T 100015984|25-C/T 100020169|39-T/G   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100020171|37-C/T 100020514|46-G/A 100093365|13-T/C 6631375|67-A/T 6651160|63-T/G 6651417|40-A/G 6653272|47-T/C 6661637|58-G/T 6661875|62-G/A 100016327|11-G/T 100017411|17-C/A   
## 1 2 2 1 1 1 1 2 1 1 1   
## 100021938|40-C/A 100104022|29-G/C 6653086|61-G/A 6654063|52-T/C 6661270|57-C/T 6661413|37-C/T 6661571|64-G/A 6662928|6-G/T 6665563|11-G/C 100015347|8-A/G 100015697|17-A/G   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6630379|34-A/G 6651111|37-G/A 6651135|63-T/A 6652080|40-C/G 6653891|42-G/A 6661255|43-T/G 6661262|56-A/G 6661441|11-A/G 100019678|23-G/T 100065386|6-G/C 100082362|41-C/G   
## 1 1 1 1 1 1 1 2 1 1 2   
## 100119892|9-C/T 6650706|34-C/G 6651084|9-T/C 6652828|42-G/A 6653640|66-C/T 6661213|29-A/C 6661501|61-G/T 100020312|34-A/G 100066078|57-C/T 6651216|56-G/C 6651663|16-T/G   
## 2 2 1 1 1 1 1 1 2 1 1   
## 6652291|30-C/A 6661623|16-C/T 6664064|11-C/A 100019069|65-C/T 6629913|31-T/G 6650658|32-T/C 6651643|7-G/A 6651651|36-T/C 6652652|32-C/T 6652781|24-G/A 6652781|64-C/G   
## 1 1 1 2 1 1 1 1 1 1 1   
## 6652958|54-G/C 6661185|61-C/T 6661218|12-C/T 6661232|58-C/T 6662683|28-G/C 6662714|21-A/C 6663024|21-C/T 100016570|44-C/T 100017965|14-G/A 100018649|23-G/A 100021210|28-A/G   
## 1 1 1 1 1 1 1 1 2 1 1   
## 100044629|5-T/A 100065997|37-G/A 100066075|25-C/G 100119599|31-T/C 6633592|39-A/T 6650534|49-T/C 6650535|67-A/T 6651337|9-A/G 6653918|11-A/G 6657564|24-C/T 6661126|11-C/T   
## 2 1 1 1 1 2 1 1 1 1 1   
## 6661428|5-C/T 6661666|46-C/T 6661783|8-T/C 6661798|20-C/T 6661798|28-T/C 6661836|10-G/A 6661836|20-G/C 6661863|56-C/T 6662849|35-T/C 6665679|46-T/G 100093359|29-C/A   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6629858|37-A/T 6643954|6-G/T 6652019|59-G/C 6652746|56-G/T 6652810|45-C/G 6653160|44-G/A 6653239|27-C/T 6653352|54-C/G 6653632|19-G/A 6662822|7-G/A 6664724|62-G/C   
## 1 1 1 1 1 1 1 1 1 1 2   
## 100044710|9-T/G 100093660|28-C/A 6633718|59-C/T 6641748|42-C/A 6658299|7-T/C 6661450|36-G/A 6643586|10-T/G 6643586|9-C/A 6648203|14-A/T 6664350|5-C/T 100106226|9-C/A   
## 2 1 1 1 2 1 1 1 1 1 1   
## 100111464|9-T/C 6643578|11-A/T 6664414|23-C/A 6664432|8-G/T 6643814|11-C/G 6643814|5-G/A 100100648|8-G/T 100103657|7-G/C 100106110|9-A/G 100106239|8-T/G 100109437|5-C/G   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100109437|9-C/G 100110529|5-C/T 100111487|5-T/G 100122090|8-T/A 6649192|5-T/C 6657874|5-G/C 6658144|18-A/T 6662919|11-A/C 6663018|25-T/C 6664273|5-C/A 6664306|8-C/A   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6664893|38-G/C 6664910|11-C/G 6665153|7-A/G 100082484|50-G/T 100118470|9-C/T 6664010|54-C/T 100046106|24-G/T 6666102|8-G/A 6657032|15-C/T 6665215|57-C/T 100018359|44-C/T   
## 1 1 1 1 2 1 1 1 1 1 1   
## 100023139|68-G/T 6664085|47-C/T 6661211|58-C/T 100066559|31-T/C 6663985|50-C/T 6665628|45-T/C 100097039|23-C/G 6665040|44-A/G 100093411|9-A/C 100093413|26-G/C 6634480|31-T/A   
## 1 1 2 1 2 2 1 1 1 1 1   
## 100065820|27-T/C 100065626|5-A/C 100017456|5-A/C 100065031|12-G/A 100090339|7-T/C 6654096|11-C/A 100045278|30-G/C 6650722|8-G/C 100023932|52-G/T 6661186|27-A/G 100066349|48-C/A   
## 1 1 1 1 1 2 1 1 1 1 1   
## 6664781|12-G/A 100018124|53-C/G 100064999|21-G/A 100074314|17-G/A 6661474|58-C/G 6664089|39-C/A 100074315|18-C/T 100109510|37-A/G 100106299|29-A/C 6652532|17-A/G 6666146|37-G/A   
## 1 1 2 1 1 1 1 1 1 1 1   
## 100020687|19-G/A 100017102|43-A/G 100016103|11-C/T 100016936|24-G/C 100065009|15-G/C 100021792|22-G/A 100065064|48-C/T 6651486|23-C/A 100022395|5-G/T 6635620|7-T/G 100021158|56-G/C   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100024001|29-C/A 100065225|30-T/C 100065766|32-C/A 100065871|7-G/C 6657554|17-A/G 100021381|48-A/G 100065073|30-T/C 100065186|6-A/G 100082387|67-G/T 100022890|66-G/A 100023224|41-T/C   
## 1 1 1 1 1 1 1 1 1 2 1   
## 100066151|44-C/A 100065712|39-A/G 100016548|22-A/C 100018316|52-G/A 100018669|51-A/G 100020096|10-G/A 100021832|59-T/C 100045940|24-C/A 100066650|24-A/G 100045116|6-C/T 100112452|57-A/G   
## 1 1 1 1 1 1 1 1 1 2 1   
## 6653883|52-C/G 100021186|32-G/C 100021930|67-G/A 100065300|66-G/T 100082101|62-A/G 100119315|9-G/T 6650840|6-C/G 6664036|6-A/T 100015791|35-A/G 100021993|35-A/T 100065071|26-C/T   
## 1 1 2 1 1 1 1 1 1 1 1   
## 100106305|20-G/C 100020586|49-T/G 100022366|24-T/C 100022982|18-T/C 100102365|9-C/G 100016200|62-T/G 100017620|16-C/T 100018736|57-T/C 100020340|6-T/C 100066082|8-G/T 6663098|31-C/G   
## 1 1 1 1 1 1 1 2 1 1 1   
## 100018726|57-G/T 100019037|42-G/A 100021366|54-C/T 100022220|45-A/G 100066146|14-T/C 100066266|57-C/G 100066574|19-T/C 100016560|7-T/C 100066037|49-C/G 100121195|35-C/G 100018616|49-T/G   
## 1 1 2 1 1 1 1 1 1 1 1   
## 100066663|58-T/C 100118142|5-T/C 6665806|57-G/A 100018844|30-C/T 100091301|63-G/T 100096922|11-G/T 6651543|26-C/T 100016510|41-T/A 100018353|22-G/T 100019853|68-A/T 100021078|39-A/T   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100021925|13-A/G 100065479|51-A/G 100066412|14-T/C 100091301|22-C/G 100019195|66-T/A 100023208|34-G/A 100065057|21-C/T 100065426|35-C/A 100073631|7-G/C 100016006|34-T/G 100017176|29-G/A   
## 1 1 1 1 1 1 1 1 2 1 2   
## 100018612|5-A/C 100020218|34-A/C 100065408|22-T/G 100065476|64-G/A 100065761|7-G/A 6632042|19-G/C 100015587|20-C/A 100016037|24-A/G 100021787|68-A/C 100022942|14-C/G 100066550|58-G/A   
## 2 1 1 1 1 1 1 1 2 1 1   
## 100082539|7-G/A 6650594|30-T/G 6653546|21-T/C 6664281|14-A/T 100016076|49-A/C 100022081|49-G/A 100022274|36-C/A 100116482|57-T/A 100121512|34-G/C 100017777|61-G/A 100064625|41-A/G   
## 1 2 1 2 1 1 1 2 1 1 1   
## 100064874|12-T/C 100106306|45-G/A 100106306|65-G/A 100021587|57-C/T 100065160|65-G/T 100073403|34-A/C 100082633|51-A/G 100097045|48-T/C 6652651|47-T/A 6661761|37-C/T 100017728|53-A/C   
## 1 1 1 2 1 1 1 1 1 1 1   
## 100065286|5-A/C 100082197|10-C/T 6633952|10-G/C 6657904|18-T/C 100065579|38-A/C 6661858|20-C/A 100019471|14-G/A 100044832|16-G/T 100065848|33-G/A 100066117|37-G/T 100112452|34-A/G   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6630404|40-A/C 100103994|35-G/T 100017343|6-T/C 100064738|40-C/G 100064746|17-G/A 100074010|27-G/C 6631936|55-T/C 6661620|58-C/G 100016884|51-C/A 100065351|47-C/G 6631698|7-C/G   
## 1 1 1 2 1 1 1 2 1 1 1   
## 6652538|34-T/C 6657259|24-G/A 100016745|16-T/C 100065233|43-G/A 6630611|19-A/C 6652270|62-C/G 6652729|29-T/G 100020530|29-C/A 6630408|13-G/T 6630626|34-A/T 6631766|58-C/A   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6633539|7-G/A 6634322|14-T/G 6652458|12-A/T 6653006|66-G/A 6653115|48-T/A 6663957|45-C/T 100066473|39-A/G 6650554|32-A/G 6657465|23-T/A 6663949|9-G/A 100020033|33-A/C   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100082315|13-G/A 6629848|65-C/G 6630880|24-C/G 6650849|38-G/A 6650881|15-G/A 6651487|20-C/T 6651826|47-T/A 6652855|33-G/T 6657563|28-T/G 6657811|15-G/A 6658667|25-T/G   
## 2 2 1 1 1 1 2 1 1 1 1   
## 6662907|9-T/A 6665143|45-A/G 100021831|19-T/A 100045184|5-G/C 100065651|20-A/C 100066434|64-T/A 100066660|33-T/C 6633749|29-T/A 6635481|20-A/G 6650535|47-C/A 6652320|27-G/C   
## 1 1 1 2 1 1 1 1 1 1 1   
## 6652796|29-G/C 6654065|42-C/G 6657294|51-C/A 6658085|11-A/G 6661346|29-T/A 6661679|17-C/T 6662799|12-C/A 6662831|22-C/T 6663021|23-A/G 100085932|36-G/C 6630269|58-C/T   
## 2 1 1 1 2 1 1 1 1 2 1   
## 6630995|13-C/T 6633153|34-C/T 6644233|38-G/T 6650943|57-C/G 6650961|27-T/G 6651177|55-C/G 6651864|18-T/C 6652465|10-A/T 6652776|7-C/T 6654017|47-C/T 6657683|10-G/C   
## 1 1 1 1 2 1 1 2 1 2 1   
## 6657925|11-T/C 6658404|12-T/G 6664915|43-G/T 100045721|8-T/A 100082404|10-G/T 100093333|22-G/A 6633054|40-T/A 6642765|20-C/T 6643196|21-C/G 6653359|24-C/T 6658471|31-G/C   
## 1 1 1 1 1 1 2 1 1 1 2   
## 100065416|12-T/C 6661414|26-T/C 6664306|12-G/A 6665409|5-T/A 6642901|10-G/A 100108705|8-G/A 6665151|5-A/T 100122090|6-T/A 6662690|20-C/T 100016003|7-T/A 100016649|43-T/C   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100019431|29-C/T 100023959|16-T/C 100024997|62-T/G 100044851|16-G/C 100064658|7-C/T 100064682|49-G/A 100064707|51-G/A 100064714|52-G/A 100064753|29-A/G 100064840|30-G/A 100065000|48-T/C   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100065025|5-A/G 100065087|14-G/A 100065157|40-T/G 100065238|55-G/T 100065368|11-G/C 100065400|61-A/G 100065428|33-G/C 100065497|38-G/T 100065538|49-T/G 100065597|12-A/T 100065605|63-C/A   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100065647|9-T/C 100065669|36-A/C 100065706|45-G/A 100065736|5-A/G 100065739|9-C/T 100065933|35-G/A 100066025|19-T/C 100066134|25-T/C 100066259|18-C/T 100066274|66-A/G 100066332|57-T/A   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100066410|32-G/A 100066624|60-C/G 100082151|41-C/A 100082232|23-T/G 100082297|57-C/T 100082311|43-C/T 100082409|16-T/A 100082418|7-T/C 100082564|6-T/C 100082633|21-G/A 100086276|23-G/T   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100086585|5-G/T 100091075|52-C/T 100091130|54-T/C 100093549|30-T/C 100098502|34-A/T 100101042|48-T/G 100121195|12-A/G 100121196|29-T/C 100121197|43-C/G 100121199|47-T/A 100121200|51-T/C   
## 1 1 1 1 1 1 1 1 1 1 1   
## 100122496|35-G/A 6630263|32-T/A 6630513|10-G/C 6631038|8-T/C 6631621|56-C/G 6633643|35-C/T 6634127|43-A/G 6635254|35-A/C 6641856|17-G/T 6642355|17-A/G 6650389|35-G/A   
## 1 1 1 1 1 1 2 1 1 1 1   
## 6650444|8-A/G 6650519|63-A/G 6650553|61-C/G 6650587|17-C/A 6650591|24-A/G 6650676|68-C/T 6650899|7-G/A 6650902|63-C/T 6650919|10-A/G 6651039|12-G/A 6651054|54-C/T   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6651207|33-A/G 6651431|65-C/G 6651512|39-C/A 6651635|32-C/T 100065262|63-T/A 6651763|26-G/A 6651874|8-T/A 6651879|12-C/T 6652022|6-C/T 100065511|46-G/C 6652174|20-A/T   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6652193|50-G/A 6652287|47-C/A 6652538|35-G/A 6652743|25-G/A 100065924|8-G/T 6652898|57-G/T 6653034|66-G/A 6653037|45-C/G 6653161|37-C/T 6653161|51-C/G 6653240|43-A/G   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6653383|7-T/C 6653394|26-G/A 6653420|30-G/T 6653514|60-C/G 6653521|20-A/T 6653525|7-A/G 6653571|21-G/T 6653574|48-G/T 6653793|20-C/T 6653861|28-C/G 6653990|38-G/A   
## 1 1 1 1 1 1 1 1 1 1 2   
## 6654094|56-G/T 6654108|11-A/G 6657811|16-C/T 6658021|8-T/G 6658173|44-C/A 6658487|25-C/A 6658616|17-G/T 6661180|50-T/C 6661214|14-C/G 6661229|60-G/A 6661236|33-G/A   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6661487|18-A/G 6661524|9-G/A 6661550|30-T/C 100082471|28-C/T 6661631|29-G/C 100082491|60-C/T 6661651|25-G/A 100082562|68-C/A 6661778|27-A/G 6661827|57-C/G 6661838|61-A/T   
## 1 1 2 1 1 1 1 1 1 2 1   
## 6661845|30-A/G 6662631|42-G/A 6662646|5-A/C 6662657|27-G/A 6662765|9-A/G 6662767|43-T/A 6662797|33-T/C 6663018|35-C/G 6663941|10-G/C 6663953|25-A/G 6663990|56-G/T   
## 1 1 1 1 1 1 1 1 1 1 2   
## 6664007|22-C/A 6664018|43-T/C 100091330|60-C/T 6664739|19-C/T 6665051|50-C/A 6665130|20-T/A 6665130|26-T/A 6665131|16-G/T 100109477|22-G/A 6665563|54-C/T 6665566|58-T/C   
## 1 1 1 1 1 1 1 1 1 1 1   
## 6665567|59-A/G 6665600|6-T/C 6665637|6-G/C 6665638|50-G/C 6665992|26-C/T 6666146|48-T/C   
## 1 1 1 1 1 1

plot(div$Hobs,div$Hexp, xlab="Hobs", ylab="Hexp", main="Expected heterozygosity as a function of observed heterozygosity per locus")  
  
bartlett.test(list(div$Hexp, div$Hobs)) # a test : H0: Hexp = Hobs

##   
## Bartlett test of homogeneity of variances  
##   
## data: list(div$Hexp, div$Hobs)  
## Bartlett's K-squared = 198.48, df = 1, p-value < 2.2e-16

basicstat <- basic.stats(gi, diploid = TRUE, digits = 2)   
names(basicstat)

## [1] "n.ind.samp" "pop.freq" "Ho" "Hs" "Fis" "perloc" "overall"

basicstat$overall

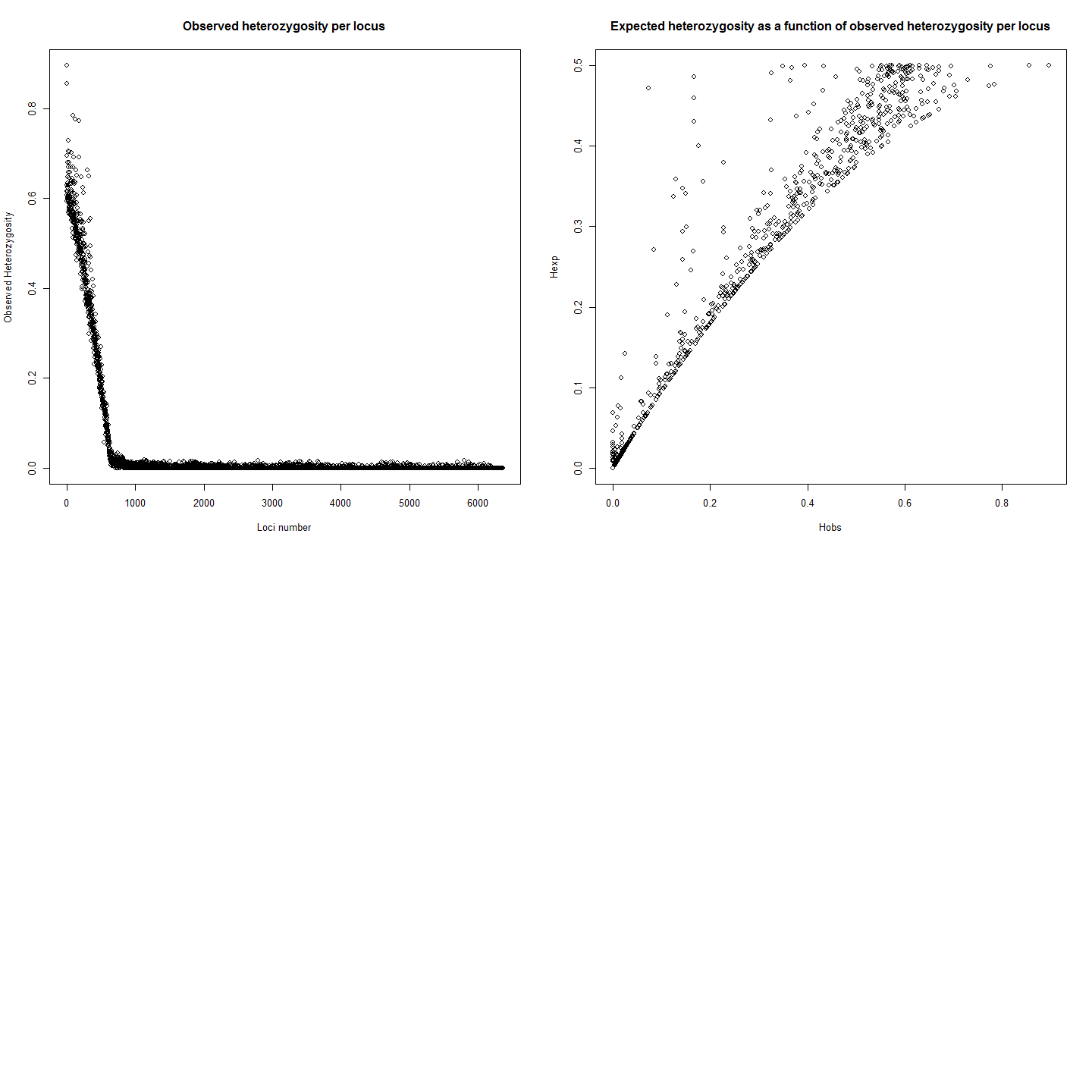
## Ho Hs Ht Dst Htp Dstp Fst Fstp Fis Dest   
## 0.04 0.03 0.03 0.00 0.03 0.00 0.01 0.02 -0.17 0.00

#mmod outputs  
diff\_stats(gi, phi\_st = FALSE)

## $per.locus  
## Hs Ht Gst Gprime\_st D  
## 6661549|60-C/T 0.537851343 0.507644027 -5.950492e-02 -1.563695e-01 -7.843532e-02  
## 6650588|15-C/T 0.506733320 0.499743555 -1.398670e-02 -3.412176e-02 -1.700443e-02  
## 6661794|21-A/G 0.472113392 0.487421375 3.140606e-02 7.094710e-02 3.479834e-02  
## 6664081|63-G/A 0.495192568 0.500418265 1.044266e-02 2.477197e-02 1.242223e-02  
## 6653885|30-A/G 0.487902403 0.493291859 1.092549e-02 2.554592e-02 1.262913e-02  
## 6661177|64-C/T 0.488242329 0.493365986 1.038510e-02 2.430114e-02 1.201426e-02  
## 6661457|52-C/T 0.510937824 0.502320494 -1.715504e-02 -4.223784e-02 -2.114414e-02  
## 6653401|39-G/A 0.501183705 0.501121486 -1.241594e-04 -2.986971e-04 -1.496798e-04  
## 6657572|30-T/A 0.444760300 0.451942974 1.589288e-02 3.423931e-02 1.552340e-02  
## 6661566|34-A/G 0.473030252 0.469106223 -8.364906e-03 -1.908024e-02 -8.935684e-03  
## 6663962|65-C/T 0.475354340 0.476734231 2.894465e-03 6.616559e-03 3.156166e-03  
## 6665217|18-A/G 0.501054015 0.501242186 3.754096e-04 9.028187e-04 4.525648e-04  
## 6661207|60-A/C 0.492928372 0.489539337 -6.922905e-03 -1.640598e-02 -8.020250e-03  
## 6661398|51-C/T 0.467089493 0.470293957 6.813747e-03 1.532221e-02 7.215764e-03  
## 6651899|27-T/A 0.454520277 0.472177818 3.739596e-02 8.165658e-02 3.884480e-02  
## 6653020|28-A/C 0.486948094 0.495577676 1.741318e-02 4.058711e-02 2.018412e-02  
## 6653704|64-T/G 0.497846562 0.499884182 4.076184e-03 9.732953e-03 4.869316e-03  
## 6650504|59-T/C 0.488323375 0.498092787 1.961364e-02 4.581878e-02 2.291153e-02  
## 6652003|38-G/C 0.451878579 0.455386915 7.704077e-03 1.684056e-02 7.680786e-03  
## 6661105|11-G/T 0.482983024 0.490174064 1.467038e-02 3.395044e-02 1.669045e-02  
## 6661432|29-C/A 0.466909440 0.464777645 -4.586697e-03 -1.033425e-02 -4.798722e-03  
## 6652162|44-A/T 0.483151705 0.482769676 -7.913274e-04 -1.837567e-03 -8.869811e-04  
## 6653798|57-C/T 0.495252350 0.490581872 -9.520283e-03 -2.267694e-02 -1.110371e-02  
## 6653191|40-A/G 0.488478451 0.486333379 -4.410702e-03 -1.035639e-02 -5.032214e-03  
## 6664876|31-G/A 0.458901732 0.461173687 4.926462e-03 1.091472e-02 5.038541e-03  
## 6661163|31-T/C 0.494744674 0.485714721 -1.859106e-02 -4.431925e-02 -2.144647e-02  
## 6652675|16-G/T 0.496427537 0.501420139 9.956923e-03 2.367993e-02 1.189724e-02  
## 6652288|45-C/T 0.483775088 0.476748525 -1.473851e-02 -3.436196e-02 -1.633373e-02  
## 6650933|66-G/A 0.503456786 0.498948448 -9.035680e-03 -2.187613e-02 -1.089534e-02  
## 6653948|58-T/C 0.484907503 0.500467765 3.109144e-02 7.198543e-02 3.625041e-02  
## 6663083|49-G/A 0.479890466 0.492176296 2.496225e-02 5.730697e-02 2.834594e-02  
## 6662726|45-A/G 0.473212868 0.469648146 -7.590197e-03 -1.731645e-02 -8.120294e-03  
## 6664756|9-C/T 0.459589753 0.451950245 -1.690343e-02 -3.766198e-02 -1.696380e-02  
## 6661688|18-A/G 0.482623630 0.483139721 1.068204e-03 2.477057e-03 1.197020e-03  
## 6666128|43-C/G 0.430809134 0.429374968 -3.340126e-03 -7.046547e-03 -3.023590e-03  
## 6652433|13-A/G 0.465076340 0.464837896 -5.129614e-04 -1.150850e-03 -5.349038e-04  
## 6652352|5-T/C 0.491716170 0.491271114 -9.059260e-04 -2.139175e-03 -1.050725e-03  
## 6664270|14-C/A 0.487252525 0.491294970 8.228142e-03 1.922496e-02 9.460668e-03  
## 6651416|17-C/T 0.493241088 0.501428737 1.632864e-02 3.854019e-02 1.938827e-02  
## 6664751|11-T/A 0.478118037 0.480224091 4.385566e-03 1.007520e-02 4.842599e-03  
## 6657734|47-A/G 0.435611958 0.431141142 -1.036973e-02 -2.209390e-02 -9.505835e-03  
## 6663081|18-A/G 0.436497270 0.443991968 1.688026e-02 3.582618e-02 1.596024e-02  
## 6651148|64-A/T 0.496734513 0.493938334 -5.660988e-03 -1.351351e-02 -6.667285e-03  
## 6656916|22-T/C 0.448737205 0.460009490 2.450446e-02 5.308166e-02 2.453774e-02  
## 6653573|49-T/C 0.487231003 0.487025703 -4.215376e-04 -9.865802e-04 -4.804494e-04  
## 6661198|22-T/G 0.484516450 0.490879273 1.296209e-02 3.009658e-02 1.481209e-02  
## 6665027|17-A/T 0.479706704 0.483774832 8.409136e-03 1.936219e-02 9.382696e-03  
## 6664900|6-C/T 0.473064396 0.487496225 2.960398e-02 6.702087e-02 3.286587e-02  
## 6650826|66-G/A 0.510453399 0.501538825 -1.777444e-02 -4.372500e-02 -2.185183e-02  
## 6653766|40-A/C 0.499477429 0.500833473 2.707574e-03 6.487880e-03 3.251107e-03  
## 6665588|8-C/T 0.458210945 0.456423582 -3.916020e-03 -8.680329e-03 -3.958804e-03  
## 6652573|8-C/A 0.447797343 0.450959686 7.012475e-03 1.521757e-02 6.872137e-03  
## 6652700|14-C/G 0.481425357 0.481628735 4.222702e-04 9.770656e-04 4.706226e-04  
## 6664334|9-A/G 0.465250250 0.469616581 9.297651e-03 2.082558e-02 9.798223e-03  
## 6651772|17-A/T 0.467232559 0.467434008 4.309675e-04 9.706233e-04 4.537414e-04  
## 6651828|36-G/A 0.486367694 0.502018746 3.117623e-02 7.238574e-02 3.656558e-02  
## 6650476|13-A/C 0.446429637 0.478023789 6.609326e-02 1.414042e-01 6.848810e-02  
## 6651474|15-T/C 0.472622180 0.468924691 -7.885036e-03 -1.797002e-02 -8.413296e-03  
## 6652836|30-C/T 0.491512454 0.490483385 -2.098072e-03 -4.953402e-03 -2.428542e-03  
## 6653346|25-C/A 0.481462556 0.482439604 2.025223e-03 4.684876e-03 2.261085e-03  
## 6658563|22-C/T 0.442495894 0.443606033 2.502534e-03 5.383886e-03 2.389520e-03  
## 6661870|10-G/T 0.498554086 0.501150097 5.180108e-03 1.238358e-02 6.212463e-03  
## 6657169|37-T/C 0.453347190 0.448477589 -1.085807e-02 -2.388727e-02 -1.068964e-02  
## 6661569|7-A/G 0.443923171 0.445904391 4.443150e-03 9.579695e-03 4.275424e-03  
## 6652342|46-G/A 0.447459836 0.461077321 2.953406e-02 6.376506e-02 2.957429e-02  
## 6656937|18-C/T 0.449309249 0.446548487 -6.182446e-03 -1.348873e-02 -6.015926e-03  
## 6661537|56-G/A 0.454887878 0.454454895 -9.527516e-04 -2.097770e-03 -9.531602e-04  
## 6664008|14-G/A 0.484385501 0.479907906 -9.330113e-03 -2.175476e-02 -1.042080e-02  
## 6651473|53-G/A 0.467819155 0.477071694 1.939444e-02 4.356302e-02 2.086330e-02  
## 6661884|29-T/A 0.492503404 0.499851120 1.469981e-02 3.465651e-02 1.737403e-02  
## 6662691|24-C/T 0.428650670 0.432602430 9.134855e-03 1.915087e-02 8.299848e-03  
## 6661181|61-C/T 0.460084167 0.465484708 1.160197e-02 2.572649e-02 1.200307e-02  
## 6651798|39-C/A 0.494167569 0.487841059 -1.296838e-02 -3.084525e-02 -1.500855e-02  
## 6661610|46-T/C 0.520920006 0.505718811 -3.005859e-02 -7.574616e-02 -3.807597e-02  
## 6653512|60-C/G 0.469256451 0.468513186 -1.586434e-03 -3.588032e-03 -1.680507e-03  
## 6651413|19-C/A 0.500083233 0.501140104 2.108934e-03 5.060149e-03 2.536913e-03  
## 6651436|18-C/T 0.512622233 0.500756612 -2.369539e-02 -5.861953e-02 -2.921501e-02  
## 6663093|22-C/A 0.439615555 0.442143840 5.718241e-03 1.223098e-02 5.414037e-03  
## 6652854|20-T/C 0.435511376 0.436775975 2.895304e-03 6.151326e-03 2.688307e-03  
## 6657907|22-C/T 0.426814523 0.433990738 1.653541e-02 3.450382e-02 1.502386e-02  
## 6664719|5-A/G 0.428322267 0.435052161 1.546917e-02 3.237094e-02 1.412662e-02  
## 6651857|34-G/T 0.430745875 0.432393215 3.809820e-03 8.025068e-03 3.472629e-03  
## 6658182|11-G/A 0.439987288 0.446413242 1.439463e-02 3.075639e-02 1.376959e-02  
## 6661203|33-G/T 0.468868837 0.477545674 1.816965e-02 4.090257e-02 1.960383e-02  
## 100066381|65-T/C 0.497975858 0.499392908 2.837545e-03 6.778803e-03 3.387207e-03  
## 6661291|28-A/C 0.487989865 0.497534256 1.918338e-02 4.478833e-02 2.236922e-02  
## 6651404|67-A/G 0.468820489 0.470758773 4.117361e-03 9.293973e-03 4.378822e-03  
## 6661583|6-T/C 0.457917497 0.441354711 -3.752715e-02 -8.370152e-02 -3.666479e-02  
## 6653019|13-C/T 0.447444811 0.443472447 -8.957408e-03 -1.948797e-02 -8.626896e-03  
## 6661633|39-G/T 0.447847151 0.447285110 -1.256563e-03 -2.731588e-03 -1.221492e-03  
## 6653539|14-G/C 0.468340764 0.466280233 -4.419082e-03 -9.983067e-03 -4.650793e-03  
## 6652507|49-A/G 0.414005823 0.416689139 6.439613e-03 1.317009e-02 5.494901e-03  
## 6662661|7-T/C 0.447829640 0.453670362 1.287438e-02 2.790728e-02 1.269331e-02  
## 6661859|57-A/G 0.501752807 0.500583277 -2.336333e-03 -5.629556e-03 -2.816745e-03  
## 6661395|60-C/T 0.521912427 0.491624099 -6.160871e-02 -1.565671e-01 -7.602372e-02  
## 6661690|43-G/A 0.477231894 0.490633374 2.731465e-02 6.235938e-02 3.076274e-02  
## 6653303|26-C/T 0.481364057 0.496272191 3.004024e-02 6.909085e-02 3.449387e-02  
## 6650697|6-C/A 0.501780288 0.500555105 -2.447648e-03 -5.898232e-03 -2.950945e-03  
## 6661748|26-C/T 0.487865121 0.487869830 9.650544e-06 2.261246e-05 1.103196e-05  
## 6661276|34-A/G 0.450759931 0.478710290 5.838679e-02 1.260932e-01 6.106698e-02  
## 6651590|59-C/G 0.455908845 0.454690733 -2.678992e-03 -5.911718e-03 -2.686563e-03  
## 6661435|48-G/A 0.414126573 0.438347769 5.525566e-02 1.119389e-01 4.961043e-02  
## 6664012|53-A/G 0.459866963 0.460133743 5.797878e-04 1.287951e-03 5.926983e-04  
## 6651071|8-C/T 0.446869124 0.470264598 4.974960e-02 1.068669e-01 5.075574e-02  
## 6661174|27-G/A 0.472523759 0.464500755 -1.727232e-02 -3.943046e-02 -1.825221e-02  
## 6657901|34-G/A 0.458577127 0.458334110 -5.302167e-04 -1.175288e-03 -5.386173e-04  
## 6661288|56-T/C 0.439631075 0.435267425 -1.002522e-02 -2.151159e-02 -9.344522e-03  
## 6664895|15-G/A 0.502987155 0.501221007 -3.523693e-03 -8.513690e-03 -4.264233e-03  
## 6665065|54-A/G 0.446928047 0.444207622 -6.124221e-03 -1.330402e-02 -5.902507e-03  
## 6653483|52-C/T 0.491198180 0.487514763 -7.555497e-03 -1.784647e-02 -8.687272e-03  
## 6652822|57-G/A 0.433398030 0.439052133 1.287798e-02 2.720406e-02 1.197476e-02  
## 100065688|55-A/G 0.477888611 0.475352345 -5.335549e-03 -1.227611e-02 -5.829252e-03  
## 6661405|37-G/T 0.455129403 0.467229784 2.589814e-02 5.674306e-02 2.664937e-02  
## 6661817|33-A/G 0.419925389 0.416020462 -9.386383e-03 -1.945413e-02 -8.078121e-03  
## 6651443|47-G/T 0.431816445 0.434046330 5.137436e-03 1.083909e-02 4.709503e-03  
## 6651921|15-T/A 0.476069613 0.478853515 5.813682e-03 1.330008e-02 6.376195e-03  
## 6654090|16-G/A 0.487703604 0.500385911 2.534505e-02 5.906868e-02 2.970696e-02  
## 6653899|53-A/G 0.456892510 0.454530471 -5.196657e-03 -1.149400e-02 -5.218942e-03  
## 6661211|62-G/A 0.502586299 0.502102448 -9.636496e-04 -2.325232e-03 -1.167280e-03  
## 6652984|32-G/A 0.455442581 0.463527194 1.744151e-02 3.830092e-02 1.781545e-02  
## 6661495|42-T/C 0.463582886 0.464390119 1.738266e-03 3.887263e-03 1.805834e-03  
## 6650679|43-C/T 0.460557544 0.452616574 -1.754458e-02 -3.916569e-02 -1.766484e-02  
## 6661246|33-G/A 0.406033454 0.409334887 8.065361e-03 1.626833e-02 6.669938e-03  
## 6653043|54-C/G 0.441651703 0.448451738 1.516336e-02 3.249050e-02 1.461461e-02  
## 6651254|12-A/T 0.477453623 0.474494509 -6.236352e-03 -1.433934e-02 -6.795450e-03  
## 6653789|32-G/T 0.458207828 0.454725855 -7.657301e-03 -1.698595e-02 -7.712122e-03  
## 6650988|24-G/A 0.434418075 0.440136246 1.299182e-02 2.749342e-02 1.213229e-02  
## 6650862|68-C/A 0.500975779 0.500568699 -8.132357e-04 -1.955900e-03 -9.789032e-04  
## 6653541|8-A/G 0.446480528 0.445915073 -1.268080e-03 -2.749825e-03 -1.225877e-03  
## 6662900|30-G/A 0.428713480 0.432855509 9.569079e-03 2.006167e-02 8.700423e-03  
## 6653618|37-G/A 0.498707483 0.497092364 -3.249131e-03 -7.782866e-03 -3.866289e-03  
## 6664721|14-C/T 0.417439170 0.427143639 2.271945e-02 4.658744e-02 1.998995e-02  
## 6652395|48-C/T 0.449110139 0.451823190 6.004672e-03 1.306425e-02 5.909821e-03  
## 6661842|33-T/A 0.484537291 0.482969989 -3.245134e-03 -7.559595e-03 -3.648688e-03  
## 6661739|54-G/A 0.446444944 0.445382854 -2.384666e-03 -5.171961e-03 -2.302404e-03  
## 6652644|26-G/A 0.469632196 0.464434405 -1.119166e-02 -2.537884e-02 -1.176042e-02  
## 6652332|20-T/C 0.428919475 0.441939551 2.946121e-02 6.154363e-02 2.735882e-02  
## 6651976|25-G/A 0.464018118 0.464033200 3.250328e-05 7.277052e-05 3.376816e-05  
## 6661113|14-C/T 0.472761162 0.468108059 -9.940232e-03 -2.266912e-02 -1.059050e-02  
## 6661301|20-G/A 0.431136089 0.433501371 5.456229e-03 1.149719e-02 4.989488e-03  
## 6662986|27-C/T 0.400783509 0.404686111 9.643528e-03 1.927510e-02 7.815409e-03  
## 6653529|7-G/A 0.426520696 0.445857869 4.337071e-02 8.997237e-02 4.046285e-02  
## 6651972|24-A/G 0.430545625 0.428718211 -4.262506e-03 -8.989959e-03 -3.850873e-03  
## 6652901|58-C/T 0.406525626 0.437262045 7.029290e-02 1.401612e-01 6.214877e-02  
## 6653167|32-C/T 0.478388042 0.469255089 -1.946266e-02 -4.495000e-02 -2.101091e-02  
## 6652763|59-G/A 0.453855587 0.453082809 -1.705600e-03 -3.748860e-03 -1.697965e-03  
## 6651610|56-G/C 0.467181739 0.474999221 1.645788e-02 3.694443e-02 1.760634e-02  
## 6661486|27-C/T 0.434067093 0.433714278 -8.134736e-04 -1.725164e-03 -7.481066e-04  
## 6664344|37-A/G 0.417737276 0.418352372 1.470282e-03 3.029251e-03 1.267667e-03  
## 6661743|17-G/A 0.383923918 0.392480865 2.180220e-02 4.228221e-02 1.666732e-02  
## 6651212|18-A/G 0.500695970 0.501415149 1.434299e-03 3.446127e-03 1.728436e-03  
## 6651054|64-T/A 0.454852146 0.450990117 -8.563444e-03 -1.888252e-02 -8.501243e-03  
## 6653313|42-A/G 0.452533466 0.453958256 3.138591e-03 6.875209e-03 3.123017e-03  
## 6652640|45-C/A 0.425255131 0.434743843 2.182598e-02 4.537204e-02 1.981132e-02  
## 6653127|48-G/A 0.456901137 0.442477231 -3.259808e-02 -7.249950e-02 -3.187023e-02  
## 6652179|62-G/A 0.467039785 0.481338944 2.970705e-02 6.649260e-02 3.219563e-02  
## 6664422|18-A/G 0.425305027 0.426597396 3.029481e-03 6.321920e-03 2.698549e-03  
## 6661732|8-C/T 0.408698046 0.416018931 1.759748e-02 3.558743e-02 1.485715e-02  
## 6658587|26-G/A 0.490537934 0.478799261 -2.451690e-02 -5.803229e-02 -2.764957e-02  
## 6661161|53-A/C 0.495743279 0.496191084 9.024849e-04 2.147292e-03 1.065659e-03  
## 6657089|25-C/T 0.464375275 0.467429577 6.534252e-03 1.462007e-02 6.842782e-03  
## 6650998|9-A/T 0.467392955 0.492743733 5.144820e-02 1.147357e-01 5.711703e-02  
## 6652379|23-G/C 0.448896860 0.448689584 -4.619574e-04 -1.005982e-03 -4.513321e-04  
## 6652823|50-C/A 0.431357167 0.426364076 -1.171086e-02 -2.477130e-02 -1.053686e-02  
## 6653209|28-G/C 0.474549087 0.484096501 1.972213e-02 4.486351e-02 2.180393e-02  
## 6664750|24-C/T 0.397705107 0.396735165 -2.444808e-03 -4.873369e-03 -1.932491e-03  
## 6666098|18-G/A 0.444460253 0.445257486 1.790499e-03 3.866203e-03 1.722072e-03  
## 6664416|28-A/G 0.424293170 0.424723258 1.012631e-03 2.110296e-03 8.964732e-04  
## 6661208|26-A/T 0.469908899 0.465689134 -9.061334e-03 -2.054994e-02 -9.552543e-03  
## 100017494|26-T/C 0.471373025 0.466946831 -9.479010e-03 -2.155852e-02 -1.004760e-02  
## 6657426|10-G/T 0.357200569 0.357122141 -2.196110e-04 -4.099954e-04 -1.464120e-04  
## 6650467|17-T/C 0.414219006 0.419221989 1.193397e-02 2.438909e-02 1.024885e-02  
## 6661591|23-T/C 0.426797347 0.429030432 5.204958e-03 1.088525e-02 4.674965e-03  
## 6661615|53-A/G 0.462862623 0.470562301 1.636272e-02 3.643614e-02 1.720159e-02  
## 6651689|52-C/T 0.438857221 0.436763507 -4.793702e-03 -1.026114e-02 -4.477394e-03  
## 100093282|6-C/T 0.377805250 0.383215684 1.411851e-02 2.715308e-02 1.043487e-02  
## 6651044|31-C/T 0.397873653 0.407452909 2.351009e-02 4.663486e-02 1.909086e-02  
## 6663926|8-G/A 0.494741468 0.486644945 -1.663743e-02 -3.964618e-02 -1.922942e-02  
## 6661122|39-C/T 0.482865937 0.475265959 -1.599100e-02 -3.722588e-02 -1.763561e-02  
## 6653015|45-G/T 0.412907003 0.420418740 1.786727e-02 3.639012e-02 1.535376e-02  
## 6651960|46-A/G 0.416341321 0.423861296 1.774159e-02 3.634767e-02 1.546104e-02  
## 6658395|10-A/G 0.377827146 0.375816641 -5.349698e-03 -1.032914e-02 -3.877711e-03  
## 6664288|7-C/G 0.382961742 0.382632333 -8.609035e-04 -1.674551e-03 -6.406271e-04  
## 6651937|12-G/T 0.431689808 0.429492929 -5.115052e-03 -1.081161e-02 -4.638760e-03  
## 6661119|32-T/C 0.485585935 0.483846841 -3.594307e-03 -8.390655e-03 -4.056873e-03  
## 6653567|68-C/T 0.432859585 0.434480115 3.729814e-03 7.885949e-03 3.428844e-03  
## 6657105|21-A/G 0.438110308 0.447997896 2.207061e-02 4.692797e-02 2.111643e-02  
## 6653958|12-C/T 0.398202534 0.400073416 4.676345e-03 9.316042e-03 3.730587e-03  
## 6664417|17-G/A 0.405453284 0.417483717 2.881653e-02 5.782840e-02 2.428156e-02  
## 6653929|22-G/A 0.405058844 0.409535584 1.093126e-02 2.200032e-02 9.029614e-03  
## 6653560|40-C/T 0.450502565 0.446397036 -9.197034e-03 -2.012162e-02 -8.965710e-03  
## 6651307|58-C/T 0.404181969 0.399896559 -1.071630e-02 -2.162938e-02 -8.630977e-03  
## 6651918|7-T/C 0.454491455 0.468915655 3.076076e-02 6.725321e-02 3.173010e-02  
## 6652335|27-T/C 0.438962394 0.454542197 3.427581e-02 7.281319e-02 3.332355e-02  
## 6652403|61-A/C 0.427338715 0.434921130 1.743400e-02 3.640565e-02 1.588880e-02  
## 6661676|25-C/T 0.445585688 0.450252506 1.036489e-02 2.238784e-02 1.010108e-02  
## 6657686|15-A/G 0.412242172 0.410016450 -5.428370e-03 -1.109492e-02 -4.544160e-03  
## 6661180|15-G/A 0.421883201 0.422256497 8.840494e-04 1.834701e-03 7.748516e-04  
## 6664065|56-A/T 0.419639814 0.413349485 -1.521795e-02 -3.156193e-02 -1.300640e-02  
## 6662654|14-C/T 0.406626844 0.403527467 -7.680708e-03 -1.555687e-02 -6.267982e-03  
## 6661258|19-T/G 0.452829470 0.473507049 4.366900e-02 9.494131e-02 4.534801e-02  
## 6661326|21-G/T 0.389556018 0.390270029 1.829532e-03 3.595145e-03 1.403591e-03  
## 6661503|51-G/A 0.426997499 0.436398061 2.154126e-02 4.491886e-02 1.968696e-02  
## 6665677|54-T/C 0.360834711 0.360020943 -2.260334e-03 -4.245580e-03 -1.527807e-03  
## 6651345|67-A/G 0.372902467 0.378736011 1.540267e-02 2.938368e-02 1.116294e-02  
## 6653158|39-C/T 0.393019381 0.388957382 -1.044330e-02 -2.068961e-02 -8.030567e-03  
## 6661434|33-C/T 0.375976515 0.386853984 2.811776e-02 5.376822e-02 2.091742e-02  
## 6650700|61-G/A 0.442954150 0.457167083 3.108914e-02 6.655904e-02 3.061780e-02  
## 6665573|50-G/T 0.381221339 0.377901088 -8.786031e-03 -1.706878e-02 -6.438976e-03  
## 100103686|15-C/T 0.447918931 0.447487367 -9.644172e-04 -2.096656e-03 -9.380460e-04  
## 6661407|28-A/T 0.379692011 0.380318548 1.647401e-03 3.185885e-03 1.212050e-03  
## 6662956|24-T/G 0.388972512 0.401048469 3.011097e-02 5.878109e-02 2.371603e-02  
## 6653198|44-C/T 0.448310730 0.444644362 -8.245618e-03 -1.796498e-02 -7.974853e-03  
## 100119886|12-A/G 0.350838214 0.358156939 2.043441e-02 3.762002e-02 1.352894e-02  
## 6653976|22-T/C 0.401621966 0.409917906 2.023805e-02 4.042220e-02 1.663685e-02  
## 6661123|44-T/C 0.372601357 0.370795212 -4.871007e-03 -9.325663e-03 -3.454542e-03  
## 6661423|44-C/T 0.397516335 0.436997503 9.034644e-02 1.767542e-01 7.863682e-02  
## 6661694|9-T/C 0.444627056 0.462299459 3.822718e-02 8.197115e-02 3.818494e-02  
## 6653208|48-G/A 0.441419403 0.428559859 -3.000641e-02 -6.485205e-02 -2.762619e-02  
## 6661587|35-T/C 0.428072211 0.442923047 3.352916e-02 6.988116e-02 3.115953e-02  
## 6653932|10-C/T 0.372592974 0.393666132 5.353053e-02 1.012998e-01 4.030524e-02  
## 6657861|14-G/A 0.385603457 0.401559540 3.973528e-02 7.699652e-02 3.116440e-02  
## 6664287|35-C/T 0.406243102 0.403703637 -6.290419e-03 -1.272913e-02 -5.132333e-03  
## 6653108|33-A/G 0.372962251 0.403149267 7.487801e-02 1.411843e-01 5.777072e-02  
## 6650863|33-C/T 0.374330967 0.379896210 1.464938e-02 2.801465e-02 1.067384e-02  
## 6653166|35-T/C 0.414585262 0.412254356 -5.654050e-03 -1.160296e-02 -4.777960e-03  
## 6652001|24-A/G 0.377172857 0.376889460 -7.519363e-04 -1.448972e-03 -5.460202e-04  
## 6657913|25-C/G 0.366487180 0.368201127 4.654919e-03 8.809146e-03 3.246557e-03  
## 100109898|15-G/A 0.370574683 0.371022074 1.205834e-03 2.298370e-03 8.529516e-04  
## 6661240|65-T/A 0.345831340 0.351101958 1.501164e-02 2.745477e-02 9.668364e-03  
## 6661268|13-G/A 0.380153701 0.383723499 9.303046e-03 1.797691e-02 6.910999e-03  
## 6653580|43-G/T 0.395698647 0.402276224 1.635090e-02 3.236319e-02 1.306152e-02  
## 6657145|22-C/A 0.383783501 0.390348030 1.681712e-02 3.263933e-02 1.278355e-02  
## 6661660|20-C/T 0.385781002 0.383416756 -6.166256e-03 -1.206189e-02 -4.619028e-03  
## 6652645|41-C/T 0.396123801 0.403990453 1.947237e-02 3.854465e-02 1.563231e-02  
## 6651100|28-C/T 0.394514391 0.407090271 3.089212e-02 6.084853e-02 2.492389e-02  
## 6661548|20-A/G 0.439052131 0.438212510 -1.916015e-03 -4.100379e-03 -1.796149e-03  
## 6657725|32-C/T 0.386244891 0.385650083 -1.542354e-03 -3.016505e-03 -1.162957e-03  
## 6652908|9-A/T 0.403570139 0.404585795 2.510359e-03 5.048237e-03 2.043471e-03  
## 6661838|60-T/G 0.387830647 0.389833175 5.136884e-03 1.005920e-02 3.925438e-03  
## 6652562|28-G/A 0.377484069 0.389285570 3.031579e-02 5.808640e-02 2.274930e-02  
## 6654077|33-C/T 0.394505947 0.395421105 2.314389e-03 4.584656e-03 1.813709e-03  
## 6661761|38-G/A 0.454036727 0.449378527 -1.036587e-02 -2.283100e-02 -1.023849e-02  
## 6658102|52-C/T 0.386228510 0.399857894 3.408557e-02 6.619032e-02 2.664715e-02  
## 6657350|31-T/A 0.388840572 0.389750936 2.335760e-03 4.584078e-03 1.787483e-03  
## 6651178|33-C/T 0.360863822 0.366554769 1.552550e-02 2.905943e-02 1.068495e-02  
## 6661253|38-T/C 0.361070401 0.390909513 7.633253e-02 1.412075e-01 5.604206e-02  
## 100104030|16-C/A 0.446014099 0.451975408 1.318945e-02 2.849478e-02 1.291291e-02  
## 6664895|24-C/A 0.487393105 0.489710746 4.732672e-03 1.106859e-02 5.425538e-03  
## 6653522|21-A/G 0.392049231 0.392474223 1.082855e-03 2.136923e-03 8.388690e-04  
## 6661899|11-A/G 0.422058157 0.431182842 2.116199e-02 4.375415e-02 1.894589e-02  
## 6650883|48-C/T 0.377610930 0.375134001 -6.602785e-03 -1.274736e-02 -4.775654e-03  
## 6661607|53-C/G 0.362483391 0.365679848 8.741136e-03 1.642476e-02 6.016704e-03  
## 6654004|30-T/A 0.397934910 0.406987384 2.224264e-02 4.413636e-02 1.804285e-02  
## 6653722|5-T/G 0.395466221 0.401867991 1.593003e-02 3.152070e-02 1.270752e-02  
## 6654003|26-C/A 0.387494623 0.393802528 1.601794e-02 3.128160e-02 1.235824e-02  
## 6652045|5-C/T 0.405118273 0.405157403 9.658072e-05 1.948196e-04 7.893413e-05  
## 6658305|27-T/C 0.412876320 0.413278468 9.730676e-04 1.988429e-03 8.219349e-04  
## 6657714|46-T/C 0.401979464 0.401419235 -1.395621e-03 -2.801262e-03 -1.124167e-03  
## 6661603|40-G/C 0.367608454 0.376902502 2.465902e-02 4.656231e-02 1.763600e-02  
## 6650949|5-A/T 0.315659067 0.322566215 2.141311e-02 3.738803e-02 1.211177e-02  
## 6664725|29-A/G 0.490272701 0.499843058 1.914672e-02 4.490327e-02 2.253053e-02  
## 6657697|38-A/G 0.350348658 0.356465608 1.716000e-02 3.158859e-02 1.129889e-02  
## 6661471|62-C/G 0.384944161 0.393342248 2.135058e-02 4.147877e-02 1.638502e-02  
## 6661765|40-G/A 0.351639837 0.356146310 1.265343e-02 2.336015e-02 8.340684e-03  
## 6661481|66-A/C 0.461830446 0.466518130 1.004823e-02 2.236042e-02 1.045251e-02  
## 6653282|53-T/C 0.387098590 0.394636707 1.910141e-02 3.725633e-02 1.475888e-02  
## 6652110|26-C/T 0.392501160 0.403904199 2.823204e-02 5.545398e-02 2.252457e-02  
## 6652196|51-C/T 0.417925569 0.416867943 -2.537078e-03 -5.233074e-03 -2.180394e-03  
## 6652944|56-G/A 0.387543166 0.395091005 1.910405e-02 3.728851e-02 1.478865e-02  
## 6658191|17-C/G 0.386650649 0.387592214 2.429267e-03 4.750482e-03 1.842144e-03  
## 6661286|15-G/A 0.327412479 0.324166921 -1.001200e-02 -1.789879e-02 -5.790576e-03  
## 6653684|7-T/C 0.387229077 0.382287842 -1.292543e-02 -2.537770e-02 -9.676507e-03  
## 6653203|66-A/G 0.360835463 0.371758892 2.938310e-02 5.484304e-02 2.050820e-02  
## 6661751|44-T/G 0.369011317 0.422114597 1.258030e-01 2.333774e-01 1.009906e-01  
## 6661711|66-G/A 0.360477407 0.365564519 1.391577e-02 2.603908e-02 9.545456e-03  
## 6650674|36-C/T 0.336117029 0.333677810 -7.310100e-03 -1.323270e-02 -4.409003e-03  
## 6653554|14-G/A 0.374064743 0.375518387 3.871033e-03 7.415536e-03 2.786826e-03  
## 6651804|55-G/C 0.380498543 0.379718468 -2.054352e-03 -3.981001e-03 -1.511038e-03  
## 6664076|29-C/A 0.347717215 0.350773310 8.712450e-03 1.600035e-02 5.622276e-03  
## 6663980|50-G/A 0.319556025 0.323589998 1.246631e-02 2.193034e-02 7.114131e-03  
## 100102214|5-C/T 0.395958675 0.392345303 -9.209675e-03 -1.832988e-02 -7.178395e-03  
## 6653379|50-A/G 0.365896270 0.363676779 -6.102921e-03 -1.156349e-02 -4.200241e-03  
## 6651865|33-T/G 0.380360464 0.395974822 3.943270e-02 7.576821e-02 3.023892e-02  
## 6661260|22-A/T 0.357125311 0.359302741 6.060154e-03 1.129828e-02 4.064425e-03  
## 6651954|62-T/C 0.362505638 0.366313057 1.039389e-02 1.952456e-02 7.166968e-03  
## 6656942|42-G/A 0.335473454 0.340227006 1.397171e-02 2.515976e-02 8.583951e-03  
## 6652635|57-G/A 0.360776211 0.352210393 -2.432017e-02 -4.587886e-02 -1.608041e-02  
## 6661149|41-C/T 0.391081822 0.393722011 6.705719e-03 1.319732e-02 5.203042e-03  
## 6650632|65-G/A 0.366536391 0.375733066 2.447662e-02 4.614133e-02 1.742169e-02  
## 6650568|31-G/C 0.349749311 0.356672797 1.941131e-02 3.568391e-02 1.277689e-02  
## 6650938|6-C/T 0.344111110 0.345524325 4.090059e-03 7.476966e-03 2.585587e-03  
## 6658511|21-A/C 0.352992402 0.359570377 1.829399e-02 3.380603e-02 1.220012e-02  
## 6654094|65-T/C 0.296008756 0.295397340 -2.069809e-03 -3.529589e-03 -1.042200e-03  
## 6653106|31-C/T 0.355883129 0.354657502 -3.455804e-03 -6.442671e-03 -2.283363e-03  
## 6661381|44-A/G 0.320101451 0.320719750 1.927847e-03 3.401279e-03 1.091278e-03  
## 6652779|66-A/G 0.336097653 0.340420820 1.269948e-02 2.289609e-02 7.814102e-03  
## 6650898|47-G/A 0.339487160 0.340720565 3.619989e-03 6.571930e-03 2.240813e-03  
## 6657805|7-A/G 0.356730762 0.366585861 2.688347e-02 4.988212e-02 1.838440e-02  
## 6661727|46-C/T 0.352707638 0.352301451 -1.152953e-03 -2.137925e-03 -7.530205e-04  
## 6662592|9-C/T 0.298039414 0.315395176 5.502862e-02 9.304725e-02 2.966964e-02  
## 6661085|13-C/T 0.318567714 0.321649793 9.582094e-03 1.684176e-02 5.427530e-03  
## 6661239|45-A/G 0.359157114 0.359711354 1.540792e-03 2.884296e-03 1.037834e-03  
## 6665990|9-G/C 0.494748080 0.495064480 6.391087e-04 1.517723e-03 7.514668e-04  
## 6650977|39-G/A 0.329477403 0.326928160 -7.797566e-03 -1.397670e-02 -4.562251e-03  
## 6652000|22-C/T 0.309012868 0.308005303 -3.271259e-03 -5.684737e-03 -1.749784e-03  
## 6658391|30-C/T 0.294321430 0.306915783 4.103521e-02 6.921197e-02 2.141658e-02  
## 6661184|41-C/G 0.491751734 0.500732658 1.793557e-02 4.219543e-02 2.120442e-02  
## 6651519|67-C/G 0.345295127 0.343505891 -5.208749e-03 -9.557004e-03 -3.279467e-03  
## 6652011|54-C/T 0.344713048 0.341107704 -1.056952e-02 -1.939652e-02 -6.602317e-03  
## 6661376|29-C/T 0.290377244 0.284870958 -1.932905e-02 -3.281304e-02 -9.311345e-03  
## 6650669|9-A/G 0.351257073 0.359923741 2.407918e-02 4.432654e-02 1.603101e-02  
## 100073501|45-A/G 0.372821951 0.368923686 -1.056659e-02 -2.026021e-02 -7.458676e-03  
## 6651742|50-G/A 0.347721574 0.353816610 1.722654e-02 3.158294e-02 1.121307e-02  
## 6653416|29-C/T 0.370433805 0.377538354 1.881809e-02 3.573418e-02 1.354180e-02  
## 6661643|49-G/A 0.322906652 0.331567368 2.612053e-02 4.605235e-02 1.534923e-02  
## 6650635|62-G/A 0.351881531 0.354740703 8.059890e-03 1.489898e-02 5.293793e-03  
## 6651529|9-C/T 0.308052789 0.311541007 1.119666e-02 1.937426e-02 6.049394e-03  
## 6652878|58-G/T 0.356681368 0.356841102 4.476330e-04 8.349074e-04 2.979559e-04  
## 6665222|67-C/A 0.323551261 0.325288344 5.340133e-03 9.463131e-03 3.081534e-03  
## 6661481|18-C/T 0.477642317 0.502484037 4.943783e-02 1.124604e-01 5.706830e-02  
## 6665990|48-C/G 0.490833429 0.499033062 1.643104e-02 3.859772e-02 1.932483e-02  
## 6661216|67-C/T 0.316509783 0.315503908 -3.188152e-03 -5.600992e-03 -1.766008e-03  
## 6663955|62-T/C 0.467929920 0.499924592 6.399900e-02 1.425155e-01 7.215893e-02  
## 6652246|10-G/A 0.303298390 0.310723218 2.389531e-02 4.096157e-02 1.278854e-02  
## 6661167|12-T/A 0.367008693 0.365549599 -3.991508e-03 -7.572990e-03 -2.766093e-03  
## 6661710|53-G/A 0.307943510 0.303502429 -1.463277e-02 -2.544714e-02 -7.700667e-03  
## 6664085|17-G/T 0.352917512 0.357650493 1.323354e-02 2.447652e-02 8.777207e-03  
## 6661652|62-A/C 0.428000752 0.432070079 9.418209e-03 1.972136e-02 8.537059e-03  
## 6657045|15-A/G 0.360351359 0.362131212 4.914938e-03 9.211517e-03 3.339057e-03  
## 6661805|6-C/G 0.487187141 0.485655817 -3.153107e-03 -7.383036e-03 -3.583353e-03  
## 6652339|26-G/T 0.383557120 0.381581182 -5.178290e-03 -1.009078e-02 -3.846465e-03  
## 6661277|47-G/A 0.319606937 0.322683476 9.534229e-03 1.678339e-02 5.426048e-03  
## 6661335|49-T/G 0.313098051 0.315829683 8.649067e-03 1.508361e-02 4.772091e-03  
## 6652597|28-C/T 0.328461543 0.341082214 3.700185e-02 6.563442e-02 2.255240e-02  
## 6661737|51-G/T 0.294958246 0.298562225 1.207111e-02 2.049588e-02 6.134068e-03  
## 6664079|62-A/T 0.282724297 0.283113075 1.373226e-03 2.296772e-03 6.504247e-04  
## 6661334|49-G/T 0.324356371 0.324555286 6.128838e-04 1.088400e-03 3.532892e-04  
## 6661187|52-C/T 0.326037204 0.322856471 -9.851849e-03 -1.757598e-02 -5.663339e-03  
## 6653800|24-G/A 0.309425874 0.309781393 1.147642e-03 1.993783e-03 6.177786e-04  
## 6665242|22-G/A 0.463992457 0.498425436 6.908351e-02 1.525546e-01 7.708767e-02  
## 6651247|35-C/G 0.332058925 0.330733437 -4.007723e-03 -7.205913e-03 -2.381326e-03  
## 6653693|39-C/A 0.412060659 0.416703826 1.114261e-02 2.269179e-02 9.476830e-03  
## 6661436|12-T/C 0.327834531 0.341753090 4.072695e-02 7.212133e-02 2.484845e-02  
## 6650629|61-C/A 0.280480759 0.282964826 8.778711e-03 1.461530e-02 4.142877e-03  
## 6653328|49-C/T 0.372001468 0.372610437 1.634330e-03 3.121911e-03 1.163637e-03  
## 6650603|26-A/G 0.363587315 0.360491750 -8.587064e-03 -1.621936e-02 -5.836902e-03  
## 6651494|48-G/A 0.334647436 0.321728080 -4.015613e-02 -7.301016e-02 -2.330077e-02  
## 6652060|23-C/T 0.288276729 0.301105137 4.260441e-02 7.122620e-02 2.162932e-02  
## 6657933|10-C/T 0.374890843 0.373743197 -3.070679e-03 -5.898296e-03 -2.203094e-03  
## 6651038|40-T/C 0.275259165 0.272687178 -9.432006e-03 -1.564669e-02 -4.258604e-03  
## 6664362|28-C/T 0.317234399 0.327730018 3.202520e-02 5.592791e-02 1.844666e-02  
## 6651571|67-C/T 0.312616095 0.314068912 4.625790e-03 8.068006e-03 2.536254e-03  
## 6664050|15-A/G 0.355603510 0.349092444 -1.865141e-02 -3.486284e-02 -1.212496e-02  
## 6652084|30-C/T 0.321964319 0.322880545 2.837661e-03 5.019296e-03 1.621553e-03  
## 6661846|32-C/T 0.282023621 0.286892166 1.696995e-02 2.826702e-02 8.137111e-03  
## 6653638|33-A/C 0.338154330 0.341964115 1.114089e-02 2.015477e-02 6.907565e-03  
## 6657305|12-A/C 0.305507826 0.312953597 2.379193e-02 4.091495e-02 1.286541e-02  
## 6663909|36-C/T 0.295356312 0.292989353 -8.078652e-03 -1.378012e-02 -4.030904e-03  
## 6661305|58-A/G 0.284633562 0.284616209 -6.097162e-05 -1.022788e-04 -2.910985e-05  
## 6657606|35-G/A 0.275020119 0.283335183 2.934709e-02 4.829240e-02 1.376325e-02  
## 6661206|19-A/C 0.265542286 0.262854415 -1.022570e-02 -1.674159e-02 -4.391601e-03  
## 6657339|6-G/A 0.302525222 0.301332893 -3.956848e-03 -6.813119e-03 -2.051392e-03  
## 6657292|22-T/A 0.317268195 0.323912316 2.051210e-02 3.590568e-02 1.167800e-02  
## 6661485|59-A/G 0.320135989 0.322290597 6.685294e-03 1.178418e-02 3.803009e-03  
## 6650475|43-C/T 0.317876524 0.315126857 -8.725590e-03 -1.537700e-02 -4.837249e-03  
## 6652083|41-G/A 0.305634642 0.315135008 3.014697e-02 5.178765e-02 1.641850e-02  
## 6663998|25-T/C 0.296536047 0.292481597 -1.386224e-02 -2.371256e-02 -6.916260e-03  
## 6661115|22-T/G 0.317326201 0.315567464 -5.573249e-03 -9.807557e-03 -3.091496e-03  
## 100102214|35-G/A 0.328540424 0.322760755 -1.790698e-02 -3.211751e-02 -1.032914e-02  
## 6651822|26-T/C 0.301093610 0.298302718 -9.355905e-03 -1.609391e-02 -4.791872e-03  
## 6653698|49-A/T 0.341800928 0.341325171 -1.393854e-03 -2.541922e-03 -8.673801e-04  
## 6651072|34-A/C 0.294585763 0.296184741 5.398582e-03 9.173775e-03 2.720066e-03  
## 6661221|40-G/A 0.293077171 0.293423508 1.180331e-03 2.003137e-03 5.879062e-04  
## 6664084|45-C/T 0.460436196 0.491842562 6.385451e-02 1.402229e-01 6.984835e-02  
## 6664046|47-A/G 0.289805428 0.288215611 -5.516070e-03 -9.330675e-03 -2.686279e-03  
## 6664412|13-G/A 0.379678396 0.389625669 2.553033e-02 4.913703e-02 1.924280e-02  
## 6652764|38-C/T 0.272931194 0.282090187 3.246832e-02 5.324201e-02 1.511658e-02  
## 6652859|41-C/T 0.325933328 0.331051015 1.545891e-02 2.743573e-02 9.110708e-03  
## 6662842|43-C/T 0.376437855 0.382954961 1.701794e-02 3.263871e-02 1.254170e-02  
## 6653459|28-T/C 0.303752743 0.302186335 -5.183586e-03 -8.943315e-03 -2.699746e-03  
## 6652467|20-G/T 0.307544285 0.319752544 3.818033e-02 6.566369e-02 2.115646e-02  
## 6658444|32-T/G 0.273624292 0.272499673 -4.127047e-03 -6.823670e-03 -1.857913e-03  
## 6663948|54-G/A 0.327025606 0.339318266 3.622752e-02 6.413366e-02 2.191940e-02  
## 6661848|65-T/G 0.259893503 0.260687625 3.046259e-03 4.936161e-03 1.287580e-03  
## 6661692|19-C/T 0.300993216 0.301479611 1.613359e-03 2.768794e-03 8.350044e-04  
## 6661666|47-C/A 0.235935475 0.235026549 -3.867333e-03 -6.078533e-03 -1.427512e-03  
## 6657189|5-T/A 0.315702110 0.320366324 1.455900e-02 2.545687e-02 8.179270e-03  
## 6663931|25-C/T 0.317278585 0.320422909 9.813044e-03 1.721432e-02 5.526689e-03  
## 6661747|23-A/G 0.292074857 0.303485960 3.760010e-02 6.326001e-02 1.934290e-02  
## 6664777|21-T/G 0.297988241 0.308688902 3.466487e-02 5.884721e-02 1.829142e-02  
## 6657196|41-G/A 0.269043579 0.274305939 1.918427e-02 3.137415e-02 8.639136e-03  
## 6662626|20-G/C 0.259229418 0.264884245 2.134830e-02 3.443582e-02 9.160451e-03  
## 6661431|59-G/A 0.285130738 0.286491065 4.748234e-03 7.962960e-03 2.283483e-03  
## 6651183|67-C/T 0.286275326 0.293658222 2.514112e-02 4.205880e-02 1.241302e-02  
## 100020564|19-A/G 0.251877333 0.254951823 1.205910e-02 1.929644e-02 4.931529e-03  
## 6658409|20-A/C 0.267098310 0.265327841 -6.672762e-03 -1.094010e-02 -2.898838e-03  
## 6661097|28-C/T 0.309941220 0.307890454 -6.660701e-03 -1.159829e-02 -3.566246e-03  
## 6657230|7-A/G 0.281296558 0.283672062 8.374121e-03 1.395867e-02 3.966316e-03  
## 6661119|56-G/A 0.396364179 0.429056192 7.619518e-02 1.491988e-01 6.499020e-02  
## 6661554|36-A/G 0.271640534 0.269188929 -9.107376e-03 -1.503213e-02 -4.039112e-03  
## 6650618|9-G/C 0.241983933 0.242492503 2.097261e-03 3.318740e-03 8.051070e-04  
## 6653999|19-C/T 0.200093544 0.201416961 6.570536e-03 9.844020e-03 1.985358e-03  
## 6663991|5-C/T 0.280420439 0.277235757 -1.148727e-02 -1.920075e-02 -5.310904e-03  
## 6652381|42-A/T 0.276851493 0.276847470 -1.453240e-05 -2.411529e-05 -6.676238e-06  
## 6651915|13-C/T 0.299622123 0.305459559 1.911034e-02 3.261824e-02 1.000163e-02  
## 6662884|19-C/T 0.252635809 0.251283429 -5.381888e-03 -8.650702e-03 -2.171438e-03  
## 6664330|6-A/G 0.270563091 0.278767915 2.943245e-02 4.813611e-02 1.349779e-02  
## 6658057|21-T/G 0.253513408 0.251468510 -8.131827e-03 -1.309345e-02 -3.287237e-03  
## 6664271|29-T/G 0.319707249 0.319974514 8.352675e-04 1.473121e-03 4.714399e-04  
## 6658345|31-A/G 0.266577194 0.270381878 1.407152e-02 2.295870e-02 6.225088e-03  
## 6664281|18-T/A 0.249702169 0.252493114 1.105355e-02 1.763966e-02 4.463740e-03  
## 6651466|33-G/A 0.240865872 0.243153961 9.410043e-03 1.484697e-02 3.616893e-03  
## 6651085|26-C/T 0.208076264 0.211929483 1.818161e-02 2.745072e-02 5.838773e-03  
## 6653605|24-T/C 0.270380676 0.274547935 1.517862e-02 2.488862e-02 6.853861e-03  
## 100044679|44-A/G 0.261199836 0.274914610 4.988740e-02 8.022938e-02 2.227629e-02  
## 100115090|8-A/G 0.228642030 0.227666752 -4.283800e-03 -6.670013e-03 -1.517239e-03  
## 6661464|30-G/T 0.236580886 0.243941260 3.017273e-02 4.714330e-02 1.156959e-02  
## 6650884|45-C/T 0.269124869 0.272789085 1.343241e-02 2.199515e-02 6.016156e-03  
## 6661861|5-T/C 0.216495780 0.220620358 1.869537e-02 2.852680e-02 6.317125e-03  
## 6651870|51-T/C 0.305395282 0.318938540 4.246353e-02 7.274228e-02 2.339735e-02  
## 6650549|15-C/T 0.246945286 0.249908178 1.185592e-02 1.884783e-02 4.721396e-03  
## 6662909|15-A/C 0.234505432 0.248687237 5.702667e-02 8.838771e-02 2.223160e-02  
## 6661345|10-T/C 0.179431605 0.188457864 4.789537e-02 6.937766e-02 1.320001e-02  
## 100096951|40-T/A 0.244080151 0.248535870 1.792787e-02 2.835828e-02 7.073320e-03  
## 6651934|39-C/A 0.309794318 0.315307086 1.748381e-02 3.029164e-02 9.584567e-03  
## 6653561|20-A/G 0.275886361 0.277811611 6.930058e-03 1.146859e-02 3.190522e-03  
## 6663982|40-G/A 0.235729852 0.235501037 -9.716072e-04 -1.525842e-03 -3.592675e-04  
## 6661677|22-C/T 0.304463609 0.308570620 1.330979e-02 2.290225e-02 7.085774e-03  
## 6661705|29-C/G 0.299547743 0.317672512 5.705489e-02 9.664244e-02 3.105097e-02  
## 6661413|63-C/T 0.221641470 0.225634673 1.769765e-02 2.718833e-02 6.156345e-03  
## 100065757|18-C/G 0.202532055 0.202962558 2.121098e-03 3.190395e-03 6.478055e-04  
## 6661266|30-A/G 0.236388307 0.243735549 3.014432e-02 4.708729e-02 1.154604e-02  
## 6661310|64-T/C 0.238509065 0.242232687 1.537209e-02 2.414995e-02 5.867892e-03  
## 6661349|63-A/G 0.244210758 0.245666261 5.924718e-03 9.395803e-03 2.310967e-03  
## 100116458|50-G/A 0.221846493 0.223545797 7.601594e-03 1.170472e-02 2.620518e-03  
## 6665749|7-G/A 0.229891087 0.229862587 -1.239877e-04 -1.932051e-04 -4.440952e-05  
## 6652731|67-C/G 0.255305240 0.259899598 1.767743e-02 2.838503e-02 7.403341e-03  
## 6653078|31-C/T 0.223328188 0.223436359 4.841265e-04 7.479293e-04 1.671308e-04  
## 6653889|13-C/T 0.214420637 0.220905023 2.935373e-02 4.457715e-02 9.905127e-03  
## 6650390|62-T/A 0.233238800 0.231594424 -7.100238e-03 -1.112785e-02 -2.573488e-03  
## 6665512|36-G/A 0.258402501 0.258605428 7.846975e-04 1.269542e-03 3.283620e-04  
## 6653694|33-C/T 0.256633236 0.274772702 6.601626e-02 1.051798e-01 2.928212e-02  
## 6661130|57-A/C 0.234073395 0.234102250 1.232562e-04 1.931043e-04 4.520728e-05  
## 6650397|43-A/G 0.271571198 0.278726744 2.567226e-02 4.207597e-02 1.178791e-02  
## 6652725|65-G/A 0.218251287 0.219066631 3.721896e-03 5.708936e-03 1.251568e-03  
## 6664898|31-T/A 0.222211190 0.227326866 2.250362e-02 3.456381e-02 7.892646e-03  
## 6664740|45-G/A 0.212226796 0.216954099 2.178942e-02 3.304739e-02 7.201011e-03  
## 6661717|60-G/A 0.179534518 0.189187565 5.102369e-02 7.387260e-02 1.411840e-02  
## 6661866|27-T/C 0.281103337 0.280651509 -1.609925e-03 -2.688192e-03 -7.542021e-04  
## 6661803|57-G/C 0.201732750 0.201554088 -8.864208e-04 -1.332754e-03 -2.685743e-04  
## 6653812|35-T/C 0.225472665 0.222339615 -1.409128e-02 -2.189377e-02 -4.854134e-03  
## 6653634|39-G/A 0.171755774 0.191220038 1.017899e-01 1.445356e-01 2.820076e-02  
## 6653421|13-A/G 0.211327620 0.213175351 8.667659e-03 1.316541e-02 2.811405e-03  
## 6653117|34-C/G 0.266379601 0.274571253 2.983434e-02 4.851126e-02 1.339928e-02  
## 6652078|22-T/A 0.202907378 0.202576790 -1.631917e-03 -2.457606e-03 -4.976915e-04  
## 6663918|8-C/G 0.222194632 0.222289918 4.286550e-04 6.612733e-04 1.470070e-04  
## 6651738|38-G/C 0.217130516 0.241262610 1.000242e-01 1.503123e-01 3.699022e-02  
## 100073717|6-G/A 0.176035822 0.174597061 -8.240461e-03 -1.202100e-02 -2.095373e-03  
## 6662614|36-C/T 0.234261108 0.233503066 -3.246387e-03 -5.090764e-03 -1.187937e-03  
## 6663009|7-C/T 0.235286074 0.233707857 -6.752947e-03 -1.061115e-02 -2.476560e-03  
## 6665630|52-T/C 0.230650707 0.233750216 1.325992e-02 2.062758e-02 4.834488e-03  
## 6661118|33-G/A 0.236580713 0.237496913 3.857735e-03 6.059203e-03 1.440152e-03  
## 6651890|7-G/A 0.205503125 0.209718261 2.009904e-02 3.023584e-02 6.366498e-03  
## 6650967|42-C/A 0.234405943 0.236502764 8.865945e-03 1.387198e-02 3.286578e-03  
## 6661605|18-C/T 0.231351245 0.235293687 1.675541e-02 2.607087e-02 6.154867e-03  
## 6651286|19-T/A 0.198908016 0.203421747 2.218903e-02 3.309132e-02 6.761367e-03  
## 6653631|43-C/T 0.224254006 0.222144460 -9.496278e-03 -1.471773e-02 -3.263252e-03  
## 6661436|18-C/T 0.247986455 0.254826446 2.684176e-02 4.260312e-02 1.091468e-02  
## 6661386|46-C/T 0.299707982 0.308546821 2.864667e-02 4.880846e-02 1.514598e-02  
## 6656991|15-A/G 0.263015718 0.272344239 3.425268e-02 5.539271e-02 1.518923e-02  
## 6658489|9-C/T 0.235876569 0.233149562 -1.169638e-02 -1.841139e-02 -4.282565e-03  
## 100018527|6-C/T 0.177613954 0.177267161 -1.956326e-03 -2.855728e-03 -5.060287e-04  
## 6663957|56-G/A 0.243055658 0.253090918 3.965081e-02 6.236471e-02 1.590911e-02  
## 6653138|31-G/A 0.165253343 0.168003287 1.636839e-02 2.345380e-02 3.953214e-03  
## 6653361|55-G/A 0.183585329 0.189702451 3.224587e-02 4.709261e-02 8.991197e-03  
## 6662597|30-A/G 0.172279266 0.179058716 3.786160e-02 5.447788e-02 9.828605e-03  
## 6653013|37-T/C 0.193377964 0.198228560 2.446971e-02 3.622596e-02 7.216162e-03  
## 6664770|35-T/G 0.202154339 0.203366635 5.961133e-03 8.955167e-03 1.823353e-03  
## 100018912|62-G/T 0.209852725 0.216860876 3.231635e-02 4.876380e-02 1.064331e-02  
## 6650463|42-T/A 0.205211752 0.205323856 5.459846e-04 8.242573e-04 1.692582e-04  
## 6664775|59-A/G 0.354186081 0.378861260 6.512986e-02 1.194630e-01 4.584945e-02  
## 6651694|29-A/T 0.187301820 0.189156006 9.802416e-03 1.444556e-02 2.737822e-03  
## 6664064|49-A/G 0.173350470 0.174654406 7.465802e-03 1.082152e-02 1.892848e-03  
## 6652918|18-G/A 0.217279619 0.217986162 3.241230e-03 4.965958e-03 1.083212e-03  
## 6651840|35-G/A 0.184568862 0.186768589 1.177782e-02 1.729168e-02 3.237150e-03  
## 6651055|13-G/A 0.207835039 0.218187467 4.744740e-02 7.119938e-02 1.568223e-02  
## 6653477|22-A/T 0.154737657 0.158396580 2.309976e-02 3.264340e-02 5.194490e-03  
## 6661719|26-T/A 0.191553231 0.197079185 2.803926e-02 4.138735e-02 8.202327e-03  
## 6661828|67-T/A 0.375558688 0.406229211 7.550054e-02 1.429324e-01 5.894009e-02  
## 6654030|47-G/A 0.184645427 0.183350483 -7.062670e-03 -1.040920e-02 -1.905837e-03  
## 6665066|58-G/C 0.467630580 0.495975170 5.714921e-02 1.273628e-01 6.389080e-02  
## 6653260|47-G/T 0.194827477 0.194934212 5.475411e-04 8.159462e-04 1.590732e-04  
## 6650860|49-G/A 0.189189590 0.197821195 4.363337e-02 6.401875e-02 1.277478e-02  
## 6654039|20-G/A 0.195724150 0.199923559 2.100508e-02 3.120900e-02 6.265626e-03  
## 6665336|52-C/T 0.210949354 0.216312850 2.479509e-02 3.752267e-02 8.156885e-03  
## 6650985|20-G/A 0.183500643 0.184999946 8.104344e-03 1.189159e-02 2.203509e-03  
## 6665243|28-G/C 0.368507119 0.431819298 1.466173e-01 2.706737e-01 1.203095e-01  
## 6662888|44-A/C 0.184254652 0.187421263 1.689569e-02 2.477065e-02 4.658234e-03  
## 6665236|63-T/C 0.207348423 0.214707785 3.427618e-02 5.153761e-02 1.114138e-02  
## 6663983|17-C/T 0.153623798 0.154044923 2.733785e-03 3.873867e-03 5.970758e-04  
## 100066027|14-A/T 0.153337912 0.159791741 4.038900e-02 5.678586e-02 9.147209e-03  
## 6653607|5-T/C 0.186618554 0.186633595 8.059543e-05 1.189023e-04 2.219153e-05  
## 6661170|39-C/T 0.219903095 0.223013113 1.394545e-02 2.139220e-02 4.784048e-03  
## 6661781|60-G/A 0.139751430 0.144710027 3.426575e-02 4.747352e-02 6.916974e-03  
## 100073694|44-G/A 0.183773912 0.183579567 -1.058645e-03 -1.556729e-03 -2.857231e-04  
## 6663947|55-T/C 0.176018757 0.178456650 1.366098e-02 1.984088e-02 3.550410e-03  
## 6661831|54-T/C 0.143753331 0.145895731 1.468446e-02 2.051949e-02 3.002499e-03  
## 6652266|47-T/C 0.184689485 0.187872769 1.694383e-02 2.485424e-02 4.685259e-03  
## 6663080|20-G/A 0.138616155 0.140233517 1.153335e-02 1.603021e-02 2.253158e-03  
## 6665672|66-T/A 0.196279980 0.199982491 1.851417e-02 2.754074e-02 5.528060e-03  
## 6658491|28-C/A 0.275301065 0.287107079 4.112060e-02 6.753454e-02 1.954911e-02  
## 6661680|19-G/T 0.130229721 0.132699373 1.861088e-02 2.558174e-02 3.407317e-03  
## 6662595|39-C/T 0.196933516 0.208338942 5.474457e-02 8.091734e-02 1.704281e-02  
## 6665990|6-A/T 0.389638417 0.408977271 4.728589e-02 9.209535e-02 3.802111e-02  
## 6657377|47-C/T 0.114729759 0.121436022 5.522466e-02 7.404027e-02 9.090463e-03  
## 6661828|68-T/A 0.344571688 0.363979789 5.332192e-02 9.659505e-02 3.553359e-02  
## 6651958|27-A/G 0.186049206 0.184807516 -6.718825e-03 -9.918830e-03 -1.830611e-03  
## 6653919|17-C/T 0.209461704 0.227185166 7.801329e-02 1.166012e-01 2.690338e-02  
## 100021874|46-A/G 0.108310431 0.111248443 2.640946e-02 3.535406e-02 3.953858e-03  
## 100016068|62-T/A 0.140205162 0.140552155 2.468783e-03 3.443935e-03 4.842915e-04  
## 6665489|31-C/T 0.156732283 0.161647598 3.040759e-02 4.300953e-02 6.994668e-03  
## 100082278|57-C/T 0.250341978 0.257653707 2.837812e-02 4.516935e-02 1.170410e-02  
## 6651291|51-G/T 0.141155485 0.141220308 4.590141e-04 6.412876e-04 9.057115e-05  
## 6653890|21-C/T 0.170418463 0.178591033 4.576137e-02 6.559405e-02 1.182172e-02  
## 6663954|56-C/A 0.295002017 0.302345200 2.428741e-02 4.114056e-02 1.249907e-02  
## 100021943|40-T/C 0.145022696 0.144740427 -1.950172e-03 -2.738225e-03 -3.961772e-04  
## 6652214|62-T/A 0.182813414 0.184084767 6.906347e-03 1.012766e-02 1.866922e-03  
## 100022950|33-A/C 0.155050305 0.156702070 1.054080e-02 1.493858e-02 2.345841e-03  
## 6651253|68-C/T 0.197617762 0.198692577 5.409438e-03 8.081323e-03 1.607436e-03  
## 6650643|36-C/A 0.300100889 0.298635328 -4.907528e-03 -8.422384e-03 -2.512753e-03  
## 6652860|42-G/A 0.144261489 0.143594928 -4.641954e-03 -6.515450e-03 -9.347170e-04  
## 6664014|62-G/A 0.140550168 0.140084519 -3.324055e-03 -4.644273e-03 -6.501583e-04  
## 6661808|48-C/T 0.151565207 0.151083393 -3.189060e-03 -4.513386e-03 -6.814628e-04  
## 6658138|27-A/C 0.141524527 0.144569587 2.106293e-02 2.931882e-02 4.256466e-03  
## 100017513|60-C/T 0.130640237 0.129402617 -9.564108e-03 -1.322689e-02 -1.708320e-03  
## 6661261|32-C/T 0.194388588 0.195243220 4.377268e-03 6.514464e-03 1.273018e-03  
## 6652821|67-C/T 0.099832793 0.103160450 3.225711e-02 4.272584e-02 4.436053e-03  
## 6666304|10-A/T 0.266849730 0.293370863 9.040139e-02 1.453387e-01 4.340905e-02  
## 6665455|61-G/T 0.232054583 0.240691639 3.588432e-02 5.567367e-02 1.349636e-02  
## 100082682|51-T/C 0.137048769 0.136495017 -4.056941e-03 -5.646069e-03 -7.700350e-04  
## 6653384|6-A/G 0.116178444 0.118706619 2.129767e-02 2.879406e-02 3.432605e-03  
## 100023325|25-A/G 0.044767300 0.043850106 -2.091658e-02 -2.638660e-02 -1.152215e-03  
## 100101067|36-C/T 0.158047868 0.171822684 8.016879e-02 1.124582e-01 1.963268e-02  
## 6651685|49-T/A 0.133590201 0.133787506 1.474769e-03 2.041991e-03 2.732735e-04  
## 6653586|60-T/C 0.148934408 0.149371109 2.923597e-03 4.119854e-03 6.157470e-04  
## 6666177|13-A/T 0.373790871 0.406856521 8.127104e-02 1.532482e-01 6.336347e-02  
## 6652540|8-G/T 0.188937300 0.190181024 6.539689e-03 9.663095e-03 1.840141e-03  
## 6651209|49-A/G 0.123389828 0.126206600 2.231874e-02 3.041656e-02 3.855906e-03  
## 100066244|11-A/T 0.134002315 0.134387334 2.864990e-03 3.967701e-03 5.335142e-04  
## 6652377|20-G/A 0.206783292 0.208437600 7.936705e-03 1.198784e-02 2.502682e-03  
## 6661200|23-T/G 0.118457577 0.118988399 4.461125e-03 6.067295e-03 7.225818e-04  
## 100064741|45-G/C 0.327872056 0.340546182 3.721706e-02 6.595544e-02 2.262806e-02  
## 6658040|18-T/A 0.100082341 0.100980601 8.895365e-03 1.184051e-02 1.197789e-03  
## 6653702|48-T/C 0.107867410 0.108448631 5.359414e-03 7.201183e-03 7.817956e-04  
## 6652310|50-C/T 0.138528436 0.142754354 2.960272e-02 4.099287e-02 5.886557e-03  
## 100080867|16-C/T 0.135982881 0.135157111 -6.109703e-03 -8.495913e-03 -1.146880e-03  
## 6665067|64-C/A 0.343782613 0.348692147 1.407985e-02 2.567500e-02 8.977880e-03  
## 6653076|28-C/T 0.109729086 0.107874736 -1.718985e-02 -2.325021e-02 -2.499487e-03  
## 6653648|6-G/A 0.151653561 0.156142502 2.874900e-02 4.043345e-02 6.349681e-03  
## 6651991|67-A/T 0.139952594 0.140473269 3.706577e-03 5.167852e-03 7.264833e-04  
## 6661634|15-T/G 0.105997043 0.106463156 4.378165e-03 5.871570e-03 6.256533e-04  
## 6664050|24-G/C 0.121300299 0.128395103 5.525759e-02 7.463790e-02 9.689049e-03  
## 6652868|58-A/G 0.107124003 0.109110873 1.820964e-02 2.438444e-02 2.670297e-03  
## 6661564|13-A/G 0.091905114 0.092273200 3.989082e-03 5.267162e-03 4.864056e-04  
## 6650547|43-C/G 0.113343160 0.114020639 5.941720e-03 8.031970e-03 9.168986e-04  
## 100064827|8-G/C 0.144252127 0.148033284 2.554261e-02 3.563590e-02 5.302249e-03  
## 6650552|61-G/A 0.097019246 0.097557413 5.516407e-03 7.322850e-03 7.151865e-04  
## 6661602|25-T/C 0.090937416 0.096514579 5.778570e-02 7.540800e-02 7.362084e-03  
## 6661456|61-G/A 0.113651317 0.113363321 -2.540472e-03 -3.441215e-03 -3.899093e-04  
## 6651197|66-T/A 0.098770677 0.099099736 3.320479e-03 4.418333e-03 4.381464e-04  
## 6652994|27-C/T 0.117788159 0.122271921 3.667042e-02 4.951659e-02 6.098892e-03  
## 6661887|13-A/T 0.109197719 0.111742035 2.276955e-02 3.053382e-02 3.427449e-03  
## 6661310|58-T/C 0.097313560 0.100178287 2.859628e-02 3.779872e-02 3.808268e-03  
## 6650745|19-T/G 0.096785774 0.096888700 1.062308e-03 1.411070e-03 1.367458e-04  
## 100017712|8-T/A 0.093282596 0.094801709 1.602410e-02 2.113944e-02 2.010478e-03  
## 6651911|52-G/A 0.119726110 0.135002346 1.131553e-01 1.508410e-01 2.082475e-02  
## 6650417|11-A/C 0.084404063 0.085610788 1.409548e-02 1.842191e-02 1.581560e-03  
## 6652308|53-T/G 0.070473710 0.070824390 4.951408e-03 6.385845e-03 4.527215e-04  
## 6661174|36-C/T 0.181079638 0.180138238 -5.225986e-03 -7.665879e-03 -1.379475e-03  
## 6651243|32-G/A 0.117567397 0.120146095 2.146301e-02 2.906231e-02 3.506712e-03  
## 6662595|43-G/A 0.115862944 0.116632716 6.599966e-03 8.946033e-03 1.044777e-03  
## 6661238|17-G/T 0.104888721 0.105638299 7.095702e-03 9.499127e-03 1.004896e-03  
## 6653091|46-C/G 0.088477706 0.089886460 1.567259e-02 2.056817e-02 1.854595e-03  
## 6651733|50-G/A 0.092266839 0.092959251 7.448548e-03 9.832143e-03 9.153502e-04  
## 6661209|58-G/A 0.142478388 0.142616954 9.715932e-04 1.359366e-03 1.939063e-04  
## 6662998|47-T/C 0.091963950 0.094642354 2.830027e-02 3.718926e-02 3.539601e-03  
## 6650989|12-C/T 0.110680435 0.110479151 -1.821925e-03 -2.459304e-03 -2.716028e-04  
## 6661260|32-A/C 0.134870323 0.138357166 2.520175e-02 3.478142e-02 4.836514e-03  
## 6664754|18-T/C 0.087210083 0.088530850 1.491872e-02 1.955457e-02 1.736348e-03  
## 6653705|22-C/A 0.117741247 0.119701239 1.637403e-02 2.219837e-02 2.665874e-03  
## 6651897|14-A/G 0.100214635 0.104165434 3.792811e-02 5.020207e-02 5.268988e-03  
## 6661468|27-G/A 0.111806549 0.118020543 5.265180e-02 7.039430e-02 8.395460e-03  
## 6662877|32-C/T 0.070530457 0.070241415 -4.114972e-03 -5.317048e-03 -3.731696e-04  
## 6652769|52-G/A 0.058563797 0.059975058 2.353080e-02 2.985300e-02 1.798861e-03  
## 6657468|35-T/C 0.049212317 0.050686852 2.909106e-02 3.650378e-02 1.861027e-03  
## 6664040|37-G/T 0.061361921 0.064401884 4.720301e-02 5.978221e-02 3.886434e-03  
## 6654036|20-C/G 0.070018718 0.071484486 2.050470e-02 2.635015e-02 1.891352e-03  
## 6652581|49-T/C 0.041562194 0.042684334 2.628928e-02 3.274300e-02 1.404962e-03  
## 6663926|28-C/T 0.272079085 0.314435285 1.347056e-01 2.162406e-01 6.982550e-02  
## 6650558|18-A/C 0.077553924 0.078494450 1.198206e-02 1.555007e-02 1.223519e-03  
## 6650767|11-C/T 0.056671652 0.056528664 -2.529476e-03 -3.219354e-03 -1.818937e-04  
## 6650470|54-G/A 0.072601595 0.073346408 1.015472e-02 1.311299e-02 9.637443e-04  
## 6652008|64-T/A 0.042242234 0.042565236 7.588403e-03 9.493303e-03 4.046979e-04  
## 100066158|21-G/A 0.071333988 0.071462606 1.799799e-03 2.324821e-03 1.661976e-04  
## 6661900|39-T/C 0.456515414 0.475736987 4.040378e-02 8.849540e-02 4.244074e-02  
## 100022191|13-A/T 0.100901047 0.111150160 9.220961e-02 1.208408e-01 1.367918e-02  
## 6665045|39-A/T 0.066897115 0.067059455 2.420840e-03 3.111770e-03 2.087747e-04  
## 6652766|56-A/G 0.076805620 0.078269641 1.870484e-02 2.422258e-02 1.902985e-03  
## 6652767|24-T/A 0.053930304 0.053712267 -4.059351e-03 -5.153087e-03 -2.765593e-04  
## 6651271|49-G/A 0.053391711 0.054745027 2.472034e-02 3.118341e-02 1.715577e-03  
## 6661314|26-G/A 0.050912251 0.050535008 -7.464999e-03 -9.452649e-03 -4.769765e-04  
## 6653619|65-T/C 0.044935703 0.045422079 1.070792e-02 1.342532e-02 6.111117e-04  
## 100116986|5-T/C 0.051601230 0.052714396 2.111692e-02 2.660667e-02 1.408478e-03  
## 100116987|6-T/G 0.048832597 0.049865943 2.072249e-02 2.603575e-02 1.303678e-03  
## 6653081|42-A/G 0.048066850 0.048256868 3.937638e-03 4.959852e-03 2.395354e-04  
## 6664720|40-A/G 0.062102093 0.063738371 2.567179e-02 3.267817e-02 2.093547e-03  
## 6652605|24-T/C 0.042737098 0.042936220 4.637635e-03 5.808232e-03 2.496149e-04  
## 6661530|52-T/G 0.033806611 0.034382741 1.675638e-02 2.074171e-02 7.155467e-04  
## 6653380|28-A/G 0.031642547 0.031896893 7.973999e-03 9.865740e-03 3.151883e-04  
## 6661534|38-G/A 0.056332031 0.057305339 1.698458e-02 2.152505e-02 1.237690e-03  
## 100100705|17-C/A 0.046530256 0.049421709 5.850573e-02 7.278142e-02 3.639071e-03  
## 6661784|26-C/G 0.068058598 0.068577813 7.571168e-03 9.734158e-03 6.685581e-04  
## 6653485|62-T/C 0.023838887 0.024295519 1.879488e-02 2.301812e-02 5.613393e-04  
## 6658269|15-G/A 0.030744937 0.030493818 -8.235106e-03 -1.021241e-02 -3.109024e-04  
## 6657310|18-C/G 0.018845130 0.018925687 4.256522e-03 5.201505e-03 9.852586e-05  
## 6653319|56-C/A 0.028786637 0.029489131 2.382214e-02 2.929430e-02 8.679791e-04  
## 6662895|13-G/A 0.040873391 0.040373734 -1.237577e-02 -1.552223e-02 -6.251390e-04  
## 6650569|12-C/A 0.040154658 0.041073208 2.236372e-02 2.783466e-02 1.148372e-03  
## 100018011|33-A/T 0.042304247 0.044236063 4.367060e-02 5.424580e-02 2.420579e-03  
## 6653025|64-G/A 0.025480414 0.025426349 -2.126353e-03 -2.619454e-03 -6.657483e-05  
## 100020592|58-C/G 0.046882680 0.047113627 4.901927e-03 6.165612e-03 2.907691e-04  
## 6651157|23-G/A 0.022136430 0.022109376 -1.223639e-03 -1.501975e-03 -3.319960e-05  
## 6652995|7-T/C 0.023666585 0.023640662 -1.096540e-03 -1.348040e-03 -3.186158e-05  
## 6664385|5-T/G 0.013478331 0.013480551 1.647269e-04 2.003664e-04 2.701138e-06  
## 100080823|15-G/A 0.025538261 0.025444310 -3.692401e-03 -4.550364e-03 -1.156954e-04  
## 100098565|15-A/G 0.032853458 0.032306345 -1.693516e-02 -2.108394e-02 -6.788379e-04  
## 6662594|6-A/G 0.024181609 0.024164107 -7.243059e-04 -8.908349e-04 -2.152311e-05  
## 6662608|14-T/C 0.034682517 0.034710201 7.975843e-04 9.913304e-04 3.441477e-05  
## 100111015|17-T/A 0.031267189 0.031507494 7.626924e-03 9.433323e-03 2.976738e-04  
## 6651630|13-G/A 0.029891698 0.030689334 2.599066e-02 3.198355e-02 9.866559e-04  
## 100015677|15-G/A 0.021542313 0.021564723 1.039175e-03 1.274200e-03 2.748348e-05  
## 100021199|37-T/C 0.004973980 0.004913964 -1.221336e-02 -1.476536e-02 -7.237922e-05  
## 6651723|7-T/C 0.018225626 0.018279770 2.961958e-03 3.618189e-03 6.617884e-05  
## 6651946|25-T/C 0.029796691 0.029809549 4.313684e-04 5.334938e-04 1.590458e-05  
## 6652107|59-C/T 0.011470198 0.011490244 1.744562e-03 2.117027e-03 2.433364e-05  
## 6662703|23-A/G 0.021689676 0.021693744 1.875265e-04 2.300122e-04 4.990013e-06  
## 6656926|24-G/A 0.028962085 0.029447066 1.646961e-02 2.028617e-02 5.993360e-04  
## 6662639|8-G/T 0.015468352 0.015323157 -9.475526e-03 -1.157121e-02 -1.769714e-04  
## 6644134|13-A/C 0.027647016 0.028447092 2.812508e-02 3.451556e-02 9.873905e-04  
## 100015999|30-C/T 0.029421430 0.029747257 1.095320e-02 1.351267e-02 4.028454e-04  
## 6651264|67-C/T 0.019524945 0.019239728 -1.482437e-02 -1.819745e-02 -3.490760e-04  
## 100082192|45-T/C 0.018190149 0.018199820 5.313716e-04 6.493907e-04 1.182005e-05  
## 6658187|20-A/G 0.016312143 0.016607579 1.778924e-02 2.162414e-02 3.604023e-04  
## 6658030|16-T/G 0.014586357 0.014556139 -2.075976e-03 -2.529096e-03 -3.679859e-05  
## 6664447|43-A/G 0.024289206 0.024123959 -6.849929e-03 -8.436098e-03 -2.032333e-04  
## 6657081|38-A/G 0.003650034 0.003627663 -6.166907e-03 -7.436570e-03 -2.694410e-05  
## 6657519|27-C/A 0.014318686 0.014282890 -2.506204e-03 -3.052663e-03 -4.357900e-05  
## 6657646|21-G/A 0.026060432 0.026374057 1.189141e-02 1.461675e-02 3.864198e-04  
## 6658294|22-A/G 0.013021941 0.013281435 1.953804e-02 2.366253e-02 3.155003e-04  
## 6663106|39-T/C 0.011073676 0.011104872 2.809219e-03 3.406897e-03 3.785441e-05  
## 6665877|8-T/C 0.011706967 0.011673383 -2.876952e-03 -3.495249e-03 -4.077790e-05  
## 6657134|12-C/T 0.029892425 0.029947343 1.833833e-03 2.267576e-03 6.793278e-05  
## 6662930|5-G/T 0.013238058 0.013317454 5.961829e-03 7.241539e-03 9.655385e-05  
## 100073664|24-C/A 0.008949762 0.008899034 -5.700308e-03 -6.910020e-03 -6.142240e-05  
## 100093267|33-A/T 0.055031307 0.055267406 4.271945e-03 5.420241e-03 2.998186e-04  
## 6665045|33-A/T 0.020446925 0.020316033 -6.442765e-03 -7.902883e-03 -1.603484e-04  
## 6653064|39-T/C 0.011073676 0.011104872 2.809219e-03 3.406897e-03 3.785441e-05  
## 6652028|11-T/C 0.010067671 0.010047960 -1.961743e-03 -2.378966e-03 -2.389438e-05  
## 6652053|54-A/G 0.018697307 0.018687622 -5.182656e-04 -6.338342e-04 -1.184363e-05  
## 6661327|40-C/T 0.038147259 0.038601353 1.176370e-02 1.464185e-02 5.665249e-04  
## 100020810|55-A/G 0.029161916 0.029345916 6.270038e-03 7.740345e-03 2.274324e-04  
## 6661141|23-C/T 0.009553868 0.009534579 -2.023127e-03 -2.452163e-03 -2.337088e-05  
## 100018274|35-A/G 0.032379594 0.032637608 7.905425e-03 9.788482e-03 3.199777e-04  
## 100020489|64-T/C 0.011557323 0.011445793 -9.744157e-03 -1.185281e-02 -1.354004e-04  
## 100021048|30-T/C 0.031959806 0.033104412 3.457563e-02 4.256622e-02 1.418874e-03  
## 100021494|48-T/C 0.008321843 0.008331418 1.149293e-03 1.390405e-03 1.158671e-05  
## 100015195|36-C/T 0.008745340 0.008767498 2.527342e-03 3.058022e-03 2.682475e-05  
## 6652099|5-C/T 0.018026115 0.018099472 4.053030e-03 4.948907e-03 8.964521e-05  
## 100019298|65-T/C 0.030805167 0.032118321 4.088491e-02 5.021072e-02 1.625871e-03  
## 100020731|53-A/G 0.015844431 0.015829101 -9.684353e-04 -1.181061e-03 -1.869151e-05  
## 100065190|44-T/C 0.009319126 0.009300472 -2.005731e-03 -2.430493e-03 -2.259566e-05  
## 6651997|59-A/G 0.003924549 0.003884066 -1.042303e-02 -1.258315e-02 -4.877191e-05  
## 6658436|20-C/T 0.009739199 0.009719815 -1.994348e-03 -2.417719e-03 -2.349041e-05  
## 6650975|51-G/A 0.010224244 0.010135627 -8.743116e-03 -1.061869e-02 -1.074388e-04  
## 6657565|7-G/A 0.017332795 0.017405643 4.185310e-03 5.106685e-03 8.895954e-05  
## 6658077|34-T/C 0.003573865 0.003550727 -6.516529e-03 -7.858124e-03 -2.786569e-05  
## 6652620|41-C/T 0.015052152 0.015002451 -3.312840e-03 -4.038837e-03 -6.055230e-05  
## 6657312|42-G/A 0.006332846 0.006288539 -7.045686e-03 -8.520714e-03 -5.350734e-05  
## 6657368|39-G/A 0.011365950 0.011385066 1.678990e-03 2.037267e-03 2.320220e-05  
## 6657412|9-T/G 0.018279214 0.018240740 -2.109257e-03 -2.579325e-03 -4.702895e-05  
## 6657526|48-C/T 0.013698893 0.013762741 4.639196e-03 5.639125e-03 7.768182e-05  
## 6658588|11-C/T 0.012737902 0.012761282 1.832058e-03 2.226020e-03 2.841727e-05  
## 6662668|7-A/T 0.009483296 0.009593370 1.147395e-02 1.386873e-02 1.333532e-04  
## 6662868|15-G/A 0.025409761 0.025939796 2.043326e-02 2.505680e-02 6.526245e-04  
## 6663029|17-G/A 0.026604577 0.026698556 3.520025e-03 4.336427e-03 1.158578e-04  
## 6664446|24-T/C 0.016517682 0.016421502 -5.856979e-03 -7.154798e-03 -1.173549e-04  
## 100086116|7-C/A 0.009671527 0.009658536 -1.345006e-03 -1.630209e-03 -1.574119e-05  
## 100093344|14-G/C 0.004207357 0.004173448 -8.124907e-03 -9.807019e-03 -4.086258e-05  
## 100098451|30-G/T 0.015469348 0.015467241 -1.362396e-04 -1.660608e-04 -2.568432e-06  
## 100104877|27-G/A 0.010729913 0.010634386 -8.982817e-03 -1.091591e-02 -1.158754e-04  
## 6656935|13-T/G 0.007389707 0.007404457 1.992084e-03 2.407338e-03 1.783213e-05  
## 6657240|11-C/T 0.018310523 0.018401548 4.946597e-03 6.040658e-03 1.112674e-04  
## 6657387|17-A/T 0.010407048 0.010329531 -7.504436e-03 -9.113706e-03 -9.399901e-05  
## 6658126|24-C/G 0.016652638 0.016671258 1.116901e-03 1.362674e-03 2.272256e-05  
## 6662893|11-C/G 0.015935436 0.015915029 -1.282248e-03 -1.564015e-03 -2.488497e-05  
## 100098564|20-T/C 0.003361090 0.003337959 -6.929616e-03 -8.355162e-03 -2.785054e-05  
## 100108662|16-G/A 0.004833758 0.004773880 -1.254273e-02 -1.516242e-02 -7.220200e-05  
## 100090375|13-A/C 0.024569410 0.024676404 4.335860e-03 5.329466e-03 1.316261e-04  
## 6654111|67-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018022|29-C/T 0.012303613 0.012338668 2.841086e-03 3.449812e-03 4.259027e-05  
## 100018793|30-G/A 0.016795053 0.016779948 -9.001626e-04 -1.098845e-03 -1.843524e-05  
## 100019919|22-G/A 0.015467572 0.015497282 1.917092e-03 2.335757e-03 3.621177e-05  
## 100020224|39-A/G 0.006796718 0.006747444 -7.302742e-03 -8.836166e-03 -5.953445e-05  
## 100021950|26-G/A 0.019341178 0.019563399 1.135901e-02 1.386815e-02 2.719244e-04  
## 100065898|33-G/A 0.020273269 0.020263322 -4.908712e-04 -6.012934e-04 -1.218301e-05  
## 100016342|65-A/G 0.025861281 0.025505237 -1.395964e-02 -1.724444e-02 -4.385955e-04  
## 6653141|47-T/A 0.019924380 0.019760639 -8.286208e-03 -1.016244e-02 -2.004834e-04  
## 100020182|5-A/G 0.005827785 0.005760570 -1.166825e-02 -1.411692e-02 -8.113173e-05  
## 100017739|16-A/G 0.003424269 0.003405179 -5.606208e-03 -6.758143e-03 -2.298688e-05  
## 100019425|22-T/C 0.011955262 0.011961572 5.275274e-04 6.406249e-04 7.663690e-06  
## 100019993|60-T/C 0.006844960 0.006800549 -6.530484e-03 -7.900911e-03 -5.366036e-05  
## 100020111|24-T/C 0.007636535 0.007574794 -8.150809e-03 -9.872332e-03 -7.465898e-05  
## 100022090|7-C/A 0.003105606 0.003089617 -5.174867e-03 -6.235640e-03 -1.924580e-05  
## 100020509|41-C/T 0.006917026 0.006939875 3.292413e-03 3.975796e-03 2.760969e-05  
## 100019969|57-T/C 0.009766780 0.009797731 3.158987e-03 3.825757e-03 3.750742e-05  
## 100021750|68-T/G 0.003287612 0.003271247 -5.002724e-03 -6.029103e-03 -1.970295e-05  
## 6650682|7-C/T 0.003652138 0.003628013 -6.649588e-03 -8.019420e-03 -2.905587e-05  
## 100073640|6-A/G 0.014280622 0.014380104 6.917985e-03 8.410214e-03 1.211071e-04  
## 6658242|13-G/A 0.012620430 0.012787166 1.303931e-02 1.580595e-02 2.026404e-04  
## 6661085|49-C/T 0.011461634 0.011488816 2.365984e-03 2.870741e-03 3.299702e-05  
## 6650645|14-C/G 0.011708095 0.011871984 1.380469e-02 1.671573e-02 1.989968e-04  
## 100022464|43-T/A 0.009375420 0.009298211 -8.303672e-03 -1.007544e-02 -9.352801e-05  
## 100065437|41-T/C 0.011885157 0.011908762 1.982189e-03 2.406284e-03 2.866722e-05  
## 6652497|42-C/A 0.006154219 0.006113619 -6.640836e-03 -8.029014e-03 -4.902114e-05  
## 6653265|58-G/C 0.019308670 0.019161570 -7.676837e-03 -9.408026e-03 -1.799958e-04  
## 6653475|24-G/A 0.003423042 0.003404974 -5.306215e-03 -6.396117e-03 -2.175550e-05  
## 100021941|30-C/T 0.007469530 0.007426839 -5.748176e-03 -6.957721e-03 -5.161447e-05  
## 6658496|17-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661755|16-A/C 0.023438244 0.023564494 5.357622e-03 6.576404e-03 1.551357e-04  
## 6661423|60-C/T 0.025974536 0.025008102 -3.864485e-02 -4.798133e-02 -1.190648e-03  
## 100015613|67-G/A 0.024162149 0.024213445 2.118500e-03 2.604043e-03 6.307956e-05  
## 6652888|64-A/G 0.013545144 0.013627350 6.032376e-03 7.329406e-03 1.000009e-04  
## 6657111|13-T/C 0.018664197 0.018322340 -1.865797e-02 -2.290085e-02 -4.180313e-04  
## 6658119|34-T/A 0.012307941 0.012358801 4.115296e-03 4.995782e-03 6.179270e-05  
## 6661367|26-G/T 0.009443167 0.009510369 7.066171e-03 8.548160e-03 8.141105e-05  
## 100111976|26-A/G 0.006986299 0.006951420 -5.017496e-03 -6.069446e-03 -4.214893e-05  
## 100016385|11-T/C 0.013760450 0.013811023 3.661836e-03 4.452253e-03 6.153520e-05  
## 100073644|37-C/T 0.012703058 0.012680042 -1.815134e-03 -2.206987e-03 -2.797453e-05  
## 6650454|46-A/G 0.007969687 0.007923647 -5.810482e-03 -7.036772e-03 -5.569210e-05  
## 6650627|13-T/C 0.007114436 0.006972776 -2.031616e-02 -2.465425e-02 -1.712101e-04  
## 6651042|67-C/T 0.004213879 0.004174535 -9.424722e-03 -1.137897e-02 -4.741239e-05  
## 6652424|44-T/C 0.009209414 0.009186894 -2.451361e-03 -2.970432e-03 -2.727567e-05  
## 6653438|30-C/T 0.007746381 0.007703593 -5.554237e-03 -6.724588e-03 -5.174594e-05  
## 6653954|43-A/G 0.008492943 0.008359935 -1.591021e-02 -1.931726e-02 -1.609772e-04  
## 6657314|43-G/A 0.004078842 0.004067341 -2.827588e-03 -3.408931e-03 -1.385744e-05  
## 6657355|38-G/A 0.015580293 0.015222978 -2.347205e-02 -2.874720e-02 -4.355636e-04  
## 6657359|15-A/G 0.018052024 0.018440769 2.108076e-02 2.565381e-02 4.750705e-04  
## 6657460|29-G/A 0.003576286 0.003551130 -7.083758e-03 -8.543123e-03 -3.029476e-05  
## 6657482|8-A/G 0.006798146 0.006747682 -7.478829e-03 -9.049559e-03 -6.097220e-05  
## 6657781|17-C/A 0.006264632 0.006188138 -1.236141e-02 -1.496420e-02 -9.237158e-05  
## 6661090|62-A/T 0.003049140 0.003033443 -5.174936e-03 -6.235370e-03 -1.889506e-05  
## 6661394|35-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6662671|17-A/G 0.005267035 0.005218117 -9.374656e-03 -1.133040e-02 -5.901248e-05  
## 6662872|17-G/T 0.007651430 0.007600025 -6.763891e-03 -8.190331e-03 -6.216252e-05  
## 6663077|27-G/T 0.006641953 0.006662548 3.091174e-03 3.731904e-03 2.487936e-05  
## 100080773|11-T/C 0.013100635 0.013154494 4.094346e-03 4.974362e-03 6.548880e-05  
## 6650529|9-A/G 0.006271067 0.006286268 2.418089e-03 2.918607e-03 1.835602e-05  
## 6651847|21-G/A 0.005845690 0.005763554 -1.425098e-02 -1.725090e-02 -9.914311e-05  
## 6652313|42-C/T 0.009499046 0.009422575 -8.115734e-03 -9.848263e-03 -9.264537e-05  
## 6656897|6-A/T 0.010593273 0.010427433 -1.590415e-02 -1.935086e-02 -2.011380e-04  
## 6657147|18-G/A 0.013012968 0.012852589 -1.247835e-02 -1.520941e-02 -1.949924e-04  
## 6657176|29-T/G 0.012435213 0.012481637 3.719437e-03 4.516166e-03 5.641107e-05  
## 6657326|12-G/A 0.018177514 0.018294851 6.413657e-03 7.828837e-03 1.434111e-04  
## 6657353|6-A/G 0.014674248 0.014630052 -3.020972e-03 -3.681379e-03 -5.382623e-05  
## 6657411|13-G/A 0.007257344 0.007248205 -1.260861e-03 -1.524478e-03 -1.104695e-05  
## 6657545|31-T/C 0.024469779 0.024911630 1.773672e-02 2.174083e-02 5.435207e-04  
## 6657603|29-G/A 0.007075662 0.007089442 1.943798e-03 2.348267e-03 1.665437e-05  
## 6657689|26-G/A 0.007126498 0.006974787 -2.175139e-02 -2.640388e-02 -1.833602e-04  
## 6657743|8-C/G 0.006042333 0.006057561 2.513751e-03 3.033314e-03 1.838372e-05  
## 6657998|8-A/G 0.013705872 0.013786403 5.841341e-03 7.098723e-03 9.798020e-05  
## 6658208|29-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658287|13-A/G 0.006509963 0.006531617 3.315193e-03 4.001647e-03 2.615455e-05  
## 6658348|17-A/T 0.007301633 0.007262384 -5.404460e-03 -6.540123e-03 -4.744555e-05  
## 6658475|20-C/A 0.006850498 0.006799115 -7.557323e-03 -9.145165e-03 -6.208504e-05  
## 6658498|16-G/A 0.009527407 0.009524409 -3.147240e-04 -3.813257e-04 -3.631673e-06  
## 6658580|46-G/C 0.005147003 0.005066588 -1.587157e-02 -1.920538e-02 -9.699686e-05  
## 6661448|44-G/T 0.006266650 0.006285532 3.004031e-03 3.625392e-03 2.280120e-05  
## 6661799|23-C/T 0.010569614 0.010548995 -1.954528e-03 -2.371416e-03 -2.500627e-05  
## 6662617|41-T/G 0.006153246 0.006169574 2.646554e-03 3.193838e-03 1.971505e-05  
## 6662633|33-G/C 0.003049384 0.003033483 -5.241753e-03 -6.315965e-03 -1.913929e-05  
## 6662813|9-G/T 0.007946268 0.007889471 -7.198997e-03 -8.720548e-03 -6.870146e-05  
## 6662843|9-A/G 0.006271067 0.006286268 2.418089e-03 2.918607e-03 1.835602e-05  
## 6662968|7-T/C 0.010030763 0.009932028 -9.941065e-03 -1.207416e-02 -1.196824e-04  
## 6662976|12-A/C 0.006386097 0.006406230 3.142751e-03 3.793156e-03 2.431510e-05  
## 6664360|25-T/C 0.005089368 0.005056982 -6.404146e-03 -7.734193e-03 -3.906158e-05  
## 6664442|16-C/T 0.007313712 0.007255884 -7.969816e-03 -9.649623e-03 -6.990494e-05  
## 6664875|15-A/G 0.029506732 0.029715575 7.028062e-03 8.677892e-03 2.582310e-04  
## 100021224|39-C/T 0.027505259 0.027560890 2.018494e-03 2.489695e-03 6.864592e-05  
## 100073899|13-T/C 0.015816724 0.015863634 2.957086e-03 3.603400e-03 5.719683e-05  
## 100098800|29-G/T 0.009362475 0.009308837 -5.762089e-03 -6.987908e-03 -6.497433e-05  
## 100100663|9-T/A 0.006463421 0.006416743 -7.274403e-03 -8.798873e-03 -5.637796e-05  
## 6650431|37-G/A 0.003911493 0.003881890 -7.626115e-03 -9.201308e-03 -3.566398e-05  
## 6656974|5-A/T 0.012427819 0.012480405 4.213459e-03 5.115468e-03 6.389691e-05  
## 6657112|32-C/T 0.012042873 0.011868257 -1.471291e-02 -1.792345e-02 -2.120941e-04  
## 6657945|33-T/A 0.012304226 0.012358182 4.366009e-03 5.299850e-03 6.555370e-05  
## 6658433|38-T/A 0.003223826 0.003208244 -4.856681e-03 -5.852551e-03 -1.875818e-05  
## 6664304|20-G/T 0.011032206 0.011048045 1.433693e-03 1.739125e-03 1.921944e-05  
## 6664309|9-T/C 0.026133311 0.026649197 1.935844e-02 2.376150e-02 6.356766e-04  
## 100116189|14-C/A 0.009485043 0.009593661 1.132189e-02 1.368538e-02 1.315902e-04  
## 100045177|15-A/G 0.018052024 0.018440769 2.108076e-02 2.565381e-02 4.750705e-04  
## 100073820|20-A/G 0.005818838 0.005759078 -1.037664e-02 -1.255089e-02 -7.213156e-05  
## 100086048|24-A/T 0.015407083 0.015466752 3.857916e-03 4.698317e-03 7.272378e-05  
## 100098455|12-T/G 0.006513086 0.006469292 -6.769600e-03 -8.187861e-03 -5.289795e-05  
## 100098486|16-T/A 0.003908174 0.003881336 -6.914493e-03 -8.341482e-03 -3.233132e-05  
## 100098772|34-A/T 0.006212247 0.006171643 -6.579204e-03 -7.954865e-03 -4.902998e-05  
## 100112391|7-C/G 0.012079179 0.012301262 1.805372e-02 2.185045e-02 2.697587e-04  
## 6651055|18-T/C 0.018893289 0.018742772 -8.030684e-03 -9.838199e-03 -1.840990e-04  
## 100086270|5-G/C 0.026121773 0.026124509 1.047347e-04 1.290500e-04 3.371439e-06  
## 100112446|22-G/C 0.115489172 0.118089263 2.201802e-02 2.974048e-02 3.527497e-03  
## 6661857|31-C/T 0.008464400 0.008533240 8.067356e-03 9.747741e-03 8.331402e-05  
## 6658676|11-C/G 0.006913166 0.006939231 3.756258e-03 4.535480e-03 3.149639e-05  
## 100016220|5-A/G 0.007314448 0.007257722 -7.815896e-03 -9.462976e-03 -6.857229e-05  
## 100021127|7-A/G 0.003818051 0.003792907 -6.628998e-03 -7.995886e-03 -3.028745e-05  
## 6665873|25-A/G 0.020618127 0.020797466 8.623088e-03 1.054736e-02 2.197366e-04  
## 6654134|52-T/A 0.132694263 0.140715629 5.700409e-02 7.798153e-02 1.109832e-02  
## 100016595|6-G/A 0.004570300 0.004515470 -1.214254e-02 -1.467359e-02 -6.609724e-05  
## 100021410|63-C/T 0.010812746 0.010731638 -7.557819e-03 -9.182399e-03 -9.839323e-05  
## 100023315|21-T/C 0.006996762 0.006951151 -6.561601e-03 -7.939821e-03 -5.511847e-05  
## 6653760|49-C/A 0.013630714 0.013602195 -2.096668e-03 -2.551840e-03 -3.469607e-05  
## 100021585|32-T/G 0.006326712 0.006285653 -6.532107e-03 -7.898756e-03 -4.958398e-05  
## 100023219|12-A/G 0.012664983 0.012653485 -9.087009e-04 -1.104629e-03 -1.397487e-05  
## 6658683|43-C/T 0.015776725 0.015628030 -9.514654e-03 -1.162272e-02 -1.812946e-04  
## 100064732|20-A/G 0.073956402 0.074103454 1.984408e-03 2.570446e-03 1.905545e-04  
## 100016355|33-T/C 0.012570498 0.012614105 3.457038e-03 4.198355e-03 5.299510e-05  
## 100019393|16-C/T 0.015624616 0.015640165 9.941824e-04 1.211714e-03 1.895518e-05  
## 100020119|15-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022894|28-G/A 0.009522030 0.009303054 -2.353807e-02 -2.865211e-02 -2.652974e-04  
## 100082537|56-C/T 0.008095456 0.008042106 -6.633896e-03 -8.036309e-03 -6.454310e-05  
## 100016273|19-A/G 0.007064171 0.007087527 3.295456e-03 3.980058e-03 2.822736e-05  
## 100023327|12-C/T 0.006436752 0.006414672 -3.442015e-03 -4.160040e-03 -2.666693e-05  
## 100015858|19-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022410|6-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017258|51-G/T 0.017036247 0.017034978 -7.450108e-05 -9.095211e-05 -1.549344e-06  
## 100019095|48-C/T 0.009686041 0.009784275 1.004000e-02 1.214146e-02 1.190339e-04  
## 100020063|20-G/A 0.010948641 0.011084033 1.221499e-02 1.478414e-02 1.642682e-04  
## 100015954|31-A/G 0.005771246 0.005751146 -3.494908e-03 -4.221185e-03 -2.425968e-05  
## 100021964|13-G/C 0.004920693 0.004905083 -3.182446e-03 -3.840265e-03 -1.882483e-05  
## 100085852|36-T/C 0.008009363 0.007648025 -4.724587e-02 -5.769800e-02 -4.371061e-04  
## 6651226|18-G/C 0.004316132 0.004280609 -8.298549e-03 -1.001805e-02 -4.281219e-05  
## 100021819|62-A/C 0.004179594 0.004168821 -2.584042e-03 -3.115475e-03 -1.298115e-05  
## 100022277|8-T/G 0.004180164 0.004168916 -2.697983e-03 -3.252926e-03 -1.355386e-05  
## 100064827|60-G/T 0.003164934 0.003148034 -5.368489e-03 -6.469587e-03 -2.034461e-05  
## 100018209|24-G/C 0.003570275 0.003550129 -5.674767e-03 -6.841885e-03 -2.426200e-05  
## 100022569|31-G/A 0.007456575 0.007411122 -6.132990e-03 -7.423984e-03 -5.495257e-05  
## 6653298|40-A/G 0.003356865 0.003337255 -5.875907e-03 -7.083161e-03 -2.361054e-05  
## 100015576|20-G/A 0.003431819 0.003406437 -7.451110e-03 -8.985513e-03 -3.056297e-05  
## 100016155|45-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018361|5-C/T 0.005412455 0.005382363 -5.590871e-03 -6.753106e-03 -3.630702e-05  
## 100018644|13-A/G 0.010252565 0.010231772 -2.032242e-03 -2.464954e-03 -2.521060e-05  
## 100065285|54-G/A 0.007231227 0.007172283 -8.218340e-03 -9.950197e-03 -7.124833e-05  
## 100066085|48-C/G 0.003421426 0.003404705 -4.911169e-03 -5.919451e-03 -2.013419e-05  
## 100066350|63-A/G 0.007023376 0.006968190 -7.919649e-03 -9.585982e-03 -6.669114e-05  
## 100082653|31-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019242|15-T/C 0.004793158 0.004767114 -5.463287e-03 -6.594725e-03 -3.140345e-05  
## 100065918|65-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100082574|16-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100112503|22-T/C 0.003226190 0.003208638 -5.470000e-03 -6.592457e-03 -2.112967e-05  
## 6651116|23-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6664424|11-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017539|66-C/A 0.012652430 0.012686156 2.658513e-03 3.229380e-03 4.099020e-05  
## 100019104|53-C/T 0.010264773 0.010391351 1.218111e-02 1.473304e-02 1.534692e-04  
## 100020067|42-A/C 0.003163982 0.003147875 -5.116628e-03 -6.165751e-03 -1.938915e-05  
## 100020868|41-A/G 0.006388945 0.006406704 2.772068e-03 3.346015e-03 2.144882e-05  
## 100064882|50-T/C 0.011164686 0.011171913 6.468826e-04 7.849221e-04 8.770215e-06  
## 6658317|12-A/T 0.003493802 0.003475819 -5.173852e-03 -6.236844e-03 -2.165571e-05  
## 6661605|7-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6664288|12-C/T 0.004431363 0.004393531 -8.610817e-03 -1.039688e-02 -4.560035e-05  
## 100016786|17-G/A 0.010355242 0.010248601 -1.040542e-02 -1.264347e-02 -1.293082e-04  
## 100020956|6-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016197|32-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017640|9-C/G 0.003293627 0.003272249 -6.533060e-03 -7.875869e-03 -2.573813e-05  
## 100018738|55-G/T 0.007680978 0.007593294 -1.154752e-02 -1.399661e-02 -1.060349e-04  
## 6651375|43-G/A 0.007498629 0.007457946 -5.455005e-03 -6.602667e-03 -4.918861e-05  
## 6651394|40-A/T 0.003049481 0.003033499 -5.268458e-03 -6.348177e-03 -1.923690e-05  
## 6657692|30-G/C 0.003572438 0.003550489 -6.182021e-03 -7.454238e-03 -2.643347e-05  
## 6661438|21-G/A 0.018101761 0.018449059 1.882470e-02 2.291980e-02 4.244408e-04  
## 100015230|14-A/T 0.009143244 0.009239923 1.046324e-02 1.264529e-02 1.170860e-04  
## 100015429|54-A/G 0.011155715 0.011170418 1.316248e-03 1.596897e-03 1.784270e-05  
## 100016348|67-T/C 0.009323604 0.009269983 -5.784359e-03 -7.014672e-03 -6.495067e-05  
## 100022665|32-G/A 0.010694951 0.010615563 -7.478475e-03 -9.084774e-03 -9.629575e-05  
## 6650646|12-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651058|8-C/T 0.003163516 0.003147798 -4.993351e-03 -6.017046e-03 -1.892153e-05  
## 6652871|25-G/T 0.007331450 0.007260556 -9.764345e-03 -1.182685e-02 -8.570180e-05  
## 6653284|49-A/G 0.006721938 0.006673653 -7.235226e-03 -8.753694e-03 -5.833458e-05  
## 100020780|47-T/C 0.004563987 0.004514418 -1.098011e-02 -1.326567e-02 -5.975529e-05  
## 100082291|18-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657270|16-C/A 0.007759696 0.007711411 -6.261448e-03 -7.581993e-03 -5.839465e-05  
## 6658306|32-A/G 0.003503101 0.003477369 -7.399882e-03 -8.924282e-03 -3.098709e-05  
## 6663971|20-C/T 0.011163552 0.011171724 7.315096e-04 8.875917e-04 9.917380e-06  
## 100018785|45-G/A 0.003648303 0.003627374 -5.769594e-03 -6.956892e-03 -2.520613e-05  
## 100019578|24-A/G 0.007368444 0.007325635 -5.843759e-03 -7.072832e-03 -5.175243e-05  
## 100021429|16-A/G 0.017458996 0.017492991 1.943341e-03 2.372525e-03 4.151869e-05  
## 6651301|13-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653801|25-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6662791|9-T/C 0.006514348 0.006532348 2.755424e-03 3.326357e-03 2.174089e-05  
## 6665675|15-G/A 0.003422463 0.003404878 -5.164782e-03 -6.225453e-03 -2.117501e-05  
## 6665677|34-G/A 0.003904634 0.003880747 -6.155424e-03 -7.424603e-03 -2.877753e-05  
## 6651053|25-C/T 0.006686165 0.006669916 -2.436071e-03 -2.944397e-03 -1.962931e-05  
## 6651062|23-G/C 0.003164966 0.003148039 -5.376901e-03 -6.479735e-03 -2.037653e-05  
## 6657266|49-A/G 0.006160789 0.006170831 1.627401e-03 1.964348e-03 1.212561e-05  
## 6661781|11-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6662884|20-G/A 0.003431819 0.003406437 -7.451110e-03 -8.985513e-03 -3.056297e-05  
## 6661633|24-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100064957|57-C/G 0.003580329 0.003551804 -8.031064e-03 -9.687466e-03 -3.435272e-05  
## 6650480|42-G/T 0.007183566 0.007144265 -5.501041e-03 -6.656336e-03 -4.750231e-05  
## 6651168|20-T/C 0.006934413 0.006876776 -8.381425e-03 -1.014495e-02 -6.964758e-05  
## 6651202|6-G/T 0.004657312 0.004634243 -4.977833e-03 -6.007330e-03 -2.781171e-05  
## 6651669|51-A/T 0.003163107 0.003147730 -4.885226e-03 -5.886625e-03 -1.851140e-05  
## 6651901|52-A/G 0.003982925 0.003970699 -3.079012e-03 -3.711876e-03 -1.472967e-05  
## 6652133|6-G/A 0.013689595 0.013855673 1.198628e-02 1.454830e-02 2.020597e-04  
## 6652277|34-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652429|23-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652852|41-C/T 0.010925957 0.011080252 1.392522e-02 1.684793e-02 1.871992e-04  
## 6653859|66-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657107|30-C/T 0.003165422 0.003148115 -5.497427e-03 -6.625145e-03 -2.083379e-05  
## 6657341|14-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657827|41-T/C 0.003421538 0.003404723 -4.938496e-03 -5.952421e-03 -2.024633e-05  
## 6657863|36-T/C 0.012418884 0.011990449 -3.573134e-02 -4.372930e-02 -5.205869e-04  
## 6657972|11-T/G 0.003287972 0.003271307 -5.094352e-03 -6.139644e-03 -2.006420e-05  
## 6658332|28-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661576|17-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6662852|8-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6665753|18-G/A 0.009016076 0.008812621 -2.308681e-02 -2.808591e-02 -2.463676e-04  
## 6665974|16-T/A 0.004000105 0.003973562 -6.679766e-03 -8.058678e-03 -3.197888e-05  
## 6665974|39-G/C 0.003109388 0.003090248 -6.193654e-03 -7.464814e-03 -2.303955e-05  
## 100022319|61-G/T 0.003996667 0.003972990 -5.959668e-03 -7.188868e-03 -2.852725e-05  
## 100066473|44-C/T 0.006746286 0.006466261 -4.330551e-02 -5.277668e-02 -3.383120e-04  
## 6650457|59-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650512|39-G/A 0.004516393 0.004506486 -2.198435e-03 -2.651257e-03 -1.194260e-05  
## 6650541|48-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650816|44-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651070|58-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651408|58-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651681|14-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651690|41-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651751|52-A/G 0.003224431 0.003208345 -5.013815e-03 -6.042100e-03 -1.936571e-05  
## 6651951|29-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652480|24-G/A 0.016450454 0.016513918 3.843041e-03 4.685181e-03 7.743016e-05  
## 6652536|25-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653136|38-A/G 0.003650034 0.003627663 -6.166907e-03 -7.436570e-03 -2.694410e-05  
## 6653193|66-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653366|47-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653406|51-T/C 0.004080266 0.004067578 -3.119344e-03 -3.760895e-03 -1.528819e-05  
## 6653654|13-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653743|54-T/C 0.006387522 0.006345993 -6.544108e-03 -7.913770e-03 -5.015500e-05  
## 6653795|65-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6656968|20-T/C 0.004780772 0.004765049 -3.299511e-03 -3.981060e-03 -1.895743e-05  
## 6657138|49-C/T 0.012731448 0.012805669 5.795896e-03 7.036609e-03 9.021293e-05  
## 6657141|6-G/A 0.004570300 0.004515470 -1.214254e-02 -1.467359e-02 -6.609724e-05  
## 6657590|27-T/C 0.005821764 0.005759566 -1.079907e-02 -1.306298e-02 -7.507459e-05  
## 6657970|16-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658518|17-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658664|15-C/A 0.015264353 0.015377561 7.361886e-03 8.958013e-03 1.379552e-04  
## 6661383|36-A/G 0.003504305 0.003477569 -7.688057e-03 -9.272369e-03 -3.219573e-05  
## 6661406|53-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661709|47-A/C 0.003049140 0.003033443 -5.174936e-03 -6.235370e-03 -1.889506e-05  
## 6661820|30-C/T 0.009669636 0.009781541 1.144036e-02 1.383083e-02 1.355963e-04  
## 6661892|24-C/T 0.006266149 0.006285448 3.070411e-03 3.705451e-03 2.330472e-05  
## 6662654|9-C/A 0.012419046 0.012416141 -2.339766e-04 -2.843160e-04 -3.529943e-06  
## 6662663|5-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6663104|29-A/G 0.008220895 0.008166839 -6.618886e-03 -8.019116e-03 -6.540413e-05  
## 6664717|21-A/G 0.004412924 0.004390458 -5.117057e-03 -6.174004e-03 -2.707896e-05  
## 6665800|40-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6665804|30-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018586|15-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100045576|29-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100064632|55-G/A 0.006515956 0.006532616 2.550219e-03 3.078764e-03 2.012264e-05  
## 100124805|23-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650420|21-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650787|62-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650795|22-T/C 0.003226190 0.003208638 -5.470000e-03 -6.592457e-03 -2.112967e-05  
## 6651016|52-G/A 0.004416677 0.004391084 -5.828494e-03 -7.033420e-03 -3.084833e-05  
## 6651805|15-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652208|23-C/T 0.003225594 0.003208539 -5.315440e-03 -6.405979e-03 -2.053198e-05  
## 6652257|65-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652383|57-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652388|11-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652788|54-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652943|57-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653199|35-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653447|32-A/G 0.005071039 0.005053927 -3.385856e-03 -4.086503e-03 -2.063890e-05  
## 6653467|25-G/A 0.003353571 0.003336706 -5.054279e-03 -6.091700e-03 -2.030567e-05  
## 6653565|10-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653569|24-A/T 0.003163107 0.003147730 -4.885226e-03 -5.886625e-03 -1.851140e-05  
## 6654084|42-A/G 0.003356014 0.003337113 -5.663795e-03 -6.827173e-03 -2.275724e-05  
## 6656901|37-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6656919|48-T/A 0.003163679 0.003147825 -5.036623e-03 -6.069243e-03 -1.908567e-05  
## 6656965|28-C/T 0.005989106 0.005958502 -5.136168e-03 -6.206913e-03 -3.694591e-05  
## 6657179|25-G/A 0.003353571 0.003336706 -5.054279e-03 -6.091700e-03 -2.030567e-05  
## 6657434|21-C/A 0.003163982 0.003147875 -5.116628e-03 -6.165751e-03 -1.938915e-05  
## 6657454|17-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657477|8-A/G 0.009157593 0.009242315 9.166732e-03 1.108143e-02 1.026058e-04  
## 6657523|10-C/T 0.009315979 0.009268713 -5.099570e-03 -6.183335e-03 -5.725310e-05  
## 6657578|8-C/T 0.003163516 0.003147798 -4.993351e-03 -6.017046e-03 -1.892153e-05  
## 6657628|10-A/G 0.003818424 0.003792970 -6.711036e-03 -8.094977e-03 -3.066279e-05  
## 6657698|41-A/G 0.012569306 0.012613907 3.535817e-03 4.293955e-03 5.420185e-05  
## 6657753|24-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657784|15-C/G 0.004078765 0.004067328 -2.811860e-03 -3.389958e-03 -1.378032e-05  
## 6657818|27-A/G 0.009034059 0.008815618 -2.477883e-02 -3.015511e-02 -2.645185e-04  
## 6657821|26-T/C 0.008766603 0.008405545 -4.295472e-02 -5.245215e-02 -4.371012e-04  
## 6657854|14-G/A 0.008222044 0.008167031 -6.735941e-03 -8.161135e-03 -6.656245e-05  
## 6657918|33-T/A 0.003163107 0.003147730 -4.885226e-03 -5.886625e-03 -1.851140e-05  
## 6657923|13-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657975|18-C/G 0.003733243 0.003708627 -6.637516e-03 -8.005493e-03 -2.964997e-05  
## 6658063|26-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658152|11-T/C 0.006714531 0.006665752 -7.317936e-03 -8.853844e-03 -5.893115e-05  
## 6658175|49-T/C 0.007925982 0.007934754 1.105463e-03 1.336858e-03 1.060998e-05  
## 6658353|18-G/T 0.004987816 0.004916270 -1.455296e-02 -1.760233e-02 -8.628591e-05  
## 6658417|35-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658431|14-A/G 0.003493329 0.003475740 -5.060426e-03 -6.099972e-03 -2.118046e-05  
## 6658485|8-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658531|35-G/A 0.014790900 0.015091413 1.991283e-02 2.415792e-02 3.660292e-04  
## 6661099|20-G/A 0.003431819 0.003406437 -7.451110e-03 -8.985513e-03 -3.056297e-05  
## 6661250|41-T/C 0.003353798 0.003336744 -5.110990e-03 -6.160123e-03 -2.053374e-05  
## 6661252|5-A/G 0.007314448 0.007257722 -7.815896e-03 -9.462976e-03 -6.857229e-05  
## 6661823|31-T/C 0.006477528 0.006421468 -8.730032e-03 -1.056278e-02 -6.771014e-05  
## 6661826|50-T/A 0.003227050 0.003208782 -5.693127e-03 -6.861683e-03 -2.199257e-05  
## 6661853|33-G/A 0.003353621 0.003336715 -5.066810e-03 -6.106819e-03 -2.035606e-05  
## 6662682|18-G/C 0.008424321 0.008335469 -1.065954e-02 -1.292769e-02 -1.075286e-04  
## 6662708|45-C/A 0.003426564 0.003405561 -6.167123e-03 -7.435164e-03 -2.528967e-05  
## 6662717|10-T/A 0.003163262 0.003147755 -4.926339e-03 -5.936214e-03 -1.866734e-05  
## 6662720|17-G/A 0.005256032 0.005216283 -7.620164e-03 -9.206544e-03 -4.795075e-05  
## 6663956|7-C/T 0.012562462 0.012777504 1.682974e-02 2.038401e-02 2.613334e-04  
## 6664324|31-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6664897|36-T/G 0.003287891 0.003271293 -5.073735e-03 -6.114771e-03 -1.998291e-05  
## 6664904|21-A/G 0.003577006 0.003551250 -7.252502e-03 -8.746932e-03 -3.101749e-05  
## 6665135|35-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6665977|58-C/T 0.003850325 0.003798287 -1.370062e-02 -1.654964e-02 -6.268803e-05  
## 100062054|9-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100066053|65-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100073867|18-T/C 0.007673422 0.007590728 -1.089412e-02 -1.320280e-02 -1.000005e-04  
## 100098449|11-T/C 0.003423733 0.003405089 -5.475167e-03 -6.600000e-03 -2.244898e-05  
## 100102329|39-G/C 0.003567515 0.003549669 -5.027704e-03 -6.060940e-03 -2.149270e-05  
## 100104849|27-A/C 0.006265964 0.006285418 3.094990e-03 3.735094e-03 2.349116e-05  
## 100118311|8-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651728|12-T/C 0.021094111 0.022034204 4.266516e-02 5.185893e-02 1.152421e-03  
## 6651869|31-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651992|39-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652070|15-A/G 0.005829628 0.005760877 -1.193421e-02 -1.443949e-02 -8.298556e-05  
## 6652698|58-A/G 0.003427794 0.003405766 -6.467920e-03 -7.798289e-03 -2.652479e-05  
## 6653498|29-C/G 0.003294933 0.003272467 -6.865101e-03 -8.276720e-03 -2.704810e-05  
## 6656984|39-A/T 0.003357748 0.003337402 -6.096266e-03 -7.349126e-03 -2.449709e-05  
## 6656988|16-A/T 0.005133744 0.005064378 -1.369676e-02 -1.656631e-02 -8.366824e-05  
## 6657054|5-A/G 0.005827785 0.005760570 -1.166825e-02 -1.411692e-02 -8.113173e-05  
## 6657255|43-C/T 0.006487522 0.006423134 -1.002445e-02 -1.213221e-02 -7.777060e-05  
## 6657257|18-T/G 0.003991599 0.003972145 -4.897671e-03 -5.906544e-03 -2.343867e-05  
## 6657264|21-A/C 0.003164675 0.003147991 -5.300015e-03 -6.386980e-03 -2.008484e-05  
## 6657486|25-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657731|27-T/C 0.007306890 0.007256462 -6.949356e-03 -8.412301e-03 -6.095871e-05  
## 6657762|30-T/G 0.003163107 0.003147730 -4.885226e-03 -5.886625e-03 -1.851140e-05  
## 6658275|5-T/C 0.004791899 0.004766904 -5.243441e-03 -6.329063e-03 -3.013839e-05  
## 6658351|8-T/A 0.006266898 0.006285573 2.971087e-03 3.585658e-03 2.255131e-05  
## 6658356|40-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6662713|37-C/T 0.008322821 0.008255082 -8.205740e-03 -9.945852e-03 -8.196908e-05  
## 6662735|7-T/C 0.004434147 0.004393995 -9.137824e-03 -1.103439e-02 -4.839647e-05  
## 6662802|35-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6664285|14-G/T 0.010954898 0.011085076 1.174352e-02 1.421492e-02 1.579436e-04  
## 6664286|5-A/G 0.011082562 0.011106353 2.142105e-03 2.598221e-03 2.886912e-05  
## 6664411|22-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100116189|12-G/A 0.010331972 0.010402551 6.784792e-03 8.215601e-03 8.557917e-05  
## 100020566|50-G/A 0.006212247 0.006171643 -6.579204e-03 -7.954865e-03 -4.902998e-05  
## 100073416|9-G/C 0.003567300 0.003549633 -4.977281e-03 -6.000093e-03 -2.127692e-05  
## 100073555|13-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100073946|24-C/A 0.003729330 0.003707975 -5.759252e-03 -6.944972e-03 -2.572212e-05  
## 100082262|34-C/T 0.003226521 0.003208694 -5.555983e-03 -6.696202e-03 -2.146218e-05  
## 100082279|42-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100093533|7-G/T 0.007144690 0.007105726 -5.483477e-03 -6.634800e-03 -4.709337e-05  
## 100093556|10-T/A 0.003105231 0.003089555 -5.073885e-03 -6.113832e-03 -1.886985e-05  
## 100093571|9-A/T 0.003049140 0.003033443 -5.174936e-03 -6.235370e-03 -1.889506e-05  
## 100093658|5-T/C 0.003658646 0.003629098 -8.141906e-03 -9.822158e-03 -3.558753e-05  
## 100102354|38-T/G 0.003164636 0.003147984 -5.289593e-03 -6.374407e-03 -2.004530e-05  
## 100102368|8-T/C 0.003499826 0.003476823 -6.616165e-03 -7.977839e-03 -2.770083e-05  
## 100108745|39-G/C 0.003109388 0.003090248 -6.193654e-03 -7.464814e-03 -2.303955e-05  
## 100124806|24-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652013|36-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019613|42-A/G 0.003423798 0.003405100 -5.491225e-03 -6.619379e-03 -2.251489e-05  
## 6653942|18-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021748|48-G/A 0.013082594 0.012864193 -1.697741e-02 -2.071328e-02 -2.655549e-04  
## 100022307|64-C/T 0.003357737 0.003337401 -6.093392e-03 -7.345657e-03 -2.448552e-05  
## 6661279|61-A/G 0.003808845 0.003791373 -4.608318e-03 -5.556245e-03 -2.104638e-05  
## 100016043|65-A/G 0.007029554 0.006958629 -1.019233e-02 -1.234254e-02 -8.571211e-05  
## 100021551|26-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651509|9-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015681|31-G/A 0.003167177 0.003148408 -5.961491e-03 -7.185086e-03 -2.259461e-05  
## 100022444|19-C/T 0.007063296 0.006964253 -1.422157e-02 -1.723631e-02 -1.196966e-04  
## 100065978|51-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015971|32-G/A 0.010975098 0.010990461 1.397834e-03 1.695541e-03 1.863998e-05  
## 100018341|11-C/T 0.003572166 0.003550444 -6.118066e-03 -7.377026e-03 -2.615967e-05  
## 100018791|30-T/A 0.003811354 0.003791791 -5.159264e-03 -6.221224e-03 -2.356524e-05  
## 100021444|27-G/T 0.003108680 0.003090130 -6.002945e-03 -7.234684e-03 -2.232927e-05  
## 6651402|31-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652371|36-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016955|21-T/C 0.013025861 0.013086009 4.596416e-03 5.583362e-03 7.313109e-05  
## 100017267|60-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017271|28-T/A 0.006268632 0.006285862 2.741100e-03 3.308256e-03 2.080664e-05  
## 100017633|14-G/T 0.007562546 0.007495679 -8.920714e-03 -1.080571e-02 -8.085161e-05  
## 100018216|18-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018585|65-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018930|7-A/G 0.003576968 0.003551244 -7.243555e-03 -8.736126e-03 -3.097917e-05  
## 100019458|6-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020508|64-T/C 0.022640800 0.022809447 7.393740e-03 9.064618e-03 2.070647e-04  
## 100021998|13-T/C 0.008106071 0.007964768 -1.774094e-02 -2.153953e-02 -1.709487e-04  
## 100065288|30-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657675|5-C/T 0.006685038 0.006669729 -2.295365e-03 -2.774249e-03 -1.849499e-05  
## 100018006|38-A/G 0.008175785 0.008119388 -6.945986e-03 -8.415582e-03 -6.823445e-05  
## 100018907|18-T/C 0.007673422 0.007590728 -1.089412e-02 -1.320280e-02 -1.000005e-04  
## 100018908|67-C/T 0.005784340 0.005753329 -5.390202e-03 -6.512896e-03 -3.743044e-05  
## 100019522|42-C/T 0.006266542 0.006285514 3.018358e-03 3.642672e-03 2.290988e-05  
## 100021552|23-G/T 0.003353390 0.003336676 -5.009053e-03 -6.037136e-03 -2.012379e-05  
## 100021990|59-T/C 0.003294596 0.003272411 -6.779438e-03 -8.173299e-03 -2.671013e-05  
## 100066166|11-T/A 0.003105572 0.003089612 -5.165649e-03 -6.224520e-03 -1.921148e-05  
## 6651977|40-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661494|35-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661600|20-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100023675|41-A/G 0.007624241 0.007582560 -5.496956e-03 -6.654342e-03 -5.040148e-05  
## 100064707|39-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100066332|9-G/A 0.003106293 0.003089732 -5.360001e-03 -6.458967e-03 -1.993508e-05  
## 100111975|14-G/C 0.036156475 0.038360137 5.744668e-02 7.070959e-02 2.743594e-03  
## 100015765|23-G/A 0.003648264 0.003627368 -5.760678e-03 -6.946129e-03 -2.516713e-05  
## 100017875|29-A/G 0.003360162 0.003337805 -6.698162e-03 -8.075712e-03 -2.691904e-05  
## 100019456|25-T/C 0.009299401 0.009209833 -9.725237e-03 -1.180279e-02 -1.084903e-04  
## 100019962|30-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020185|57-C/A 0.004697266 0.004640902 -1.214498e-02 -1.467841e-02 -6.795562e-05  
## 100020870|33-C/G 0.006512796 0.006532089 2.953548e-03 3.565386e-03 2.330318e-05  
## 100021266|13-G/A 0.004431134 0.004393493 -8.567478e-03 -1.034446e-02 -4.537043e-05  
## 6651172|33-A/G 0.003229732 0.003209229 -6.388780e-03 -7.701218e-03 -2.468339e-05  
## 100015703|20-A/G 0.018018612 0.018435201 2.259747e-02 2.749030e-02 5.090796e-04  
## 6653988|60-A/T 0.003226050 0.003208615 -5.433828e-03 -6.548815e-03 -2.098979e-05  
## 100018373|30-C/T 0.003288328 0.003271366 -5.184805e-03 -6.248772e-03 -2.042082e-05  
## 100020483|16-G/A 0.014893810 0.015108564 1.421409e-02 1.726570e-02 2.616016e-04  
## 100022388|34-C/T 0.012340155 0.012354795 1.185001e-03 1.439428e-03 1.778805e-05  
## 100022854|43-G/T 0.003049140 0.003033443 -5.174936e-03 -6.235370e-03 -1.889506e-05  
## 100023104|56-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100023409|22-T/C 0.006580124 0.006534722 -6.947882e-03 -8.404362e-03 -5.484385e-05  
## 100086339|36-T/G 0.003106938 0.003089840 -5.533930e-03 -6.668793e-03 -2.058270e-05  
## 6651925|23-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100120327|18-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100120327|6-G/A 0.009015386 0.009010072 -5.897681e-04 -7.142443e-04 -6.434634e-06  
## 100016290|59-A/C 0.005409352 0.005381845 -5.110992e-03 -6.172858e-03 -3.318741e-05  
## 100020594|60-T/A 0.003163453 0.003147787 -4.976767e-03 -5.997042e-03 -1.885862e-05  
## 100022242|47-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022320|10-T/C 0.003051902 0.003033903 -5.932768e-03 -7.149600e-03 -2.166545e-05  
## 100022502|23-T/A 0.003163197 0.003147745 -4.909063e-03 -5.915376e-03 -1.860181e-05  
## 6651745|39-T/C 0.006246326 0.006185087 -9.901076e-03 -1.197970e-02 -7.394873e-05  
## 6661848|25-T/G 0.004183716 0.004169508 -3.407488e-03 -4.108965e-03 -1.712069e-05  
## 100016236|36-G/T 0.009190888 0.009122739 -7.470266e-03 -9.061011e-03 -8.253774e-05  
## 100016349|39-A/G 0.011831888 0.011841958 8.503504e-04 1.032463e-03 1.222846e-05  
## 100016910|15-T/A 0.014292490 0.014459376 1.154176e-02 1.401858e-02 2.031678e-04  
## 100020122|19-C/G 0.003293627 0.003272249 -6.533060e-03 -7.875869e-03 -2.573813e-05  
## 100021092|17-T/C 0.019863763 0.019943000 3.973200e-03 4.860605e-03 9.701207e-05  
## 100022165|12-A/G 0.003566772 0.003549545 -4.853425e-03 -5.850637e-03 -2.074694e-05  
## 100023470|59-G/A 0.006712416 0.006665399 -7.053827e-03 -8.533833e-03 -5.680116e-05  
## 6661692|56-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016458|65-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018964|48-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021554|25-A/G 0.011338443 0.011149000 -1.699193e-02 -2.069449e-02 -2.299388e-04  
## 100023185|19-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650701|18-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652394|37-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653506|13-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6664058|35-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016479|45-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017508|19-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018962|16-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022682|11-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100066335|57-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100082668|8-A/T 0.003051343 0.003033810 -5.779253e-03 -6.964379e-03 -2.110418e-05  
## 6658494|15-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015625|54-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016249|62-A/C 0.011034158 0.011048371 1.286348e-03 1.560438e-03 1.724474e-05  
## 100016393|18-A/T 0.003052243 0.003033960 -6.026087e-03 -7.262196e-03 -2.200666e-05  
## 100016660|55-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017075|58-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017124|8-A/G 0.007583450 0.007534508 -6.495788e-03 -7.864728e-03 -5.917987e-05  
## 100017541|11-T/A 0.003105572 0.003089612 -5.165649e-03 -6.224520e-03 -1.921148e-05  
## 100018026|11-T/C 0.003290799 0.003271778 -5.813523e-03 -7.007408e-03 -2.290003e-05  
## 100019630|31-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019855|44-T/C 0.003050457 0.003033662 -5.536154e-03 -6.671098e-03 -2.021545e-05  
## 100019873|44-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019915|44-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022465|65-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022648|51-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100044512|21-C/T 0.003732846 0.003708561 -6.548518e-03 -7.898009e-03 -2.925188e-05  
## 6650696|57-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653452|20-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015340|55-T/G 0.003166399 0.003148278 -5.755761e-03 -6.936839e-03 -2.181396e-05  
## 100017500|23-A/C 0.003643045 0.003626498 -4.562845e-03 -5.500453e-03 -1.992918e-05  
## 100020588|47-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022422|51-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022425|5-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100023388|34-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100023484|57-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100023525|29-A/G 0.003572336 0.003550472 -6.157942e-03 -7.425167e-03 -2.633038e-05  
## 100064648|32-T/C 0.003163644 0.003147819 -5.027309e-03 -6.058008e-03 -1.905034e-05  
## 100065646|5-C/A 0.003424955 0.003405293 -5.774030e-03 -6.960686e-03 -2.367580e-05  
## 100073396|12-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100073814|33-T/C 0.003226096 0.003208623 -5.445817e-03 -6.563279e-03 -2.103615e-05  
## 6650655|58-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651105|51-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651192|9-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652274|53-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652608|18-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652649|33-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653266|5-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661462|57-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016352|41-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016515|37-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016629|18-T/C 0.015161200 0.015122458 -2.561858e-03 -3.123156e-03 -4.720560e-05  
## 100017186|6-T/C 0.008340043 0.008003764 -4.201516e-02 -5.127307e-02 -4.069291e-04  
## 100018441|46-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019819|59-T/G 0.003353471 0.003336690 -5.029386e-03 -6.061668e-03 -2.020556e-05  
## 100021768|16-G/T 0.005774925 0.005751759 -4.027500e-03 -4.864991e-03 -2.795972e-05  
## 100022658|14-G/A 0.003572835 0.003550555 -6.274954e-03 -7.566440e-03 -2.683135e-05  
## 100022749|22-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100023505|21-C/G 0.004077818 0.004067170 -2.617918e-03 -3.156017e-03 -1.282934e-05  
## 100064613|60-T/C 0.003353353 0.003336670 -5.000013e-03 -6.026230e-03 -2.008743e-05  
## 6650443|20-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650647|27-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650672|16-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650875|47-G/A 0.007884795 0.007927889 5.435739e-03 6.567587e-03 5.212371e-05  
## 6652044|30-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652814|39-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653050|59-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653245|23-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653382|37-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015237|28-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016165|7-G/A 0.009160799 0.009242849 8.877151e-03 1.073202e-02 9.937052e-05  
## 100017157|49-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017486|22-T/G 0.004180617 0.004168992 -2.788434e-03 -3.362043e-03 -1.400851e-05  
## 100019175|10-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019665|26-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020841|64-T/C 0.008718634 0.008662885 -6.435412e-03 -7.800456e-03 -6.748747e-05  
## 100120329|23-A/G 0.006780484 0.006799015 2.725568e-03 3.291216e-03 2.238922e-05  
## 6650705|36-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651136|7-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651295|17-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651888|7-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652092|41-A/G 0.004398451 0.004388046 -2.371147e-03 -2.859303e-03 -1.254080e-05  
## 6652390|29-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653344|40-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017290|62-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017981|57-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018180|55-T/C 0.011666155 0.011593130 -6.298921e-03 -7.657574e-03 -8.866342e-05  
## 100018460|39-T/G 0.006274321 0.006232200 -6.758534e-03 -8.172495e-03 -5.086378e-05  
## 100018667|65-G/A 0.003428967 0.003405962 -6.754395e-03 -8.144164e-03 -2.770124e-05  
## 100019573|61-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020403|29-G/T 0.012571688 0.012565367 -5.030855e-04 -6.114503e-04 -7.682325e-06  
## 100023540|56-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065318|8-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100066600|5-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100066622|14-T/C 0.003167578 0.003148475 -6.067411e-03 -7.312904e-03 -2.299655e-05  
## 100086014|36-T/C 0.008009363 0.007648025 -4.724587e-02 -5.769800e-02 -4.371061e-04  
## 100098840|27-G/A 0.004946035 0.004909307 -7.481431e-03 -9.035862e-03 -4.429344e-05  
## 6650711|25-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651249|51-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653001|20-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653114|14-T/A 0.003981701 0.003970495 -2.822326e-03 -3.402251e-03 -1.350100e-05  
## 6653811|17-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661187|29-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015694|44-A/T 0.007869401 0.007925324 7.056132e-03 8.522493e-03 6.763883e-05  
## 100016554|8-A/G 0.009499358 0.009596047 1.007592e-02 1.218251e-02 1.171395e-04  
## 100017386|12-G/A 0.005249308 0.005215162 -6.547394e-03 -7.908689e-03 -4.119109e-05  
## 100017844|43-G/A 0.010346872 0.010327536 -1.872274e-03 -2.271069e-03 -2.344576e-05  
## 100020562|42-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021051|67-G/T 0.004180652 0.004168998 -2.795444e-03 -3.370500e-03 -1.404375e-05  
## 100065266|5-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650693|44-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651276|7-A/G 0.003576968 0.003551244 -7.243555e-03 -8.736126e-03 -3.097917e-05  
## 6651724|68-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652175|66-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652356|17-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653008|30-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653473|47-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653869|47-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6654016|14-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6664729|22-C/T 0.006530946 0.006535114 6.378204e-04 7.703178e-04 5.034757e-06  
## 6661750|65-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016089|30-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017364|16-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017568|38-A/G 0.014589262 0.014669869 5.494713e-03 6.683931e-03 9.816014e-05  
## 100017636|20-G/A 0.003431819 0.003406437 -7.451110e-03 -8.985513e-03 -3.056297e-05  
## 100018230|62-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020647|25-G/A 0.013023614 0.013085635 4.739633e-03 5.757153e-03 7.540741e-05  
## 100023048|6-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100023313|65-G/T 0.006756925 0.006681710 -1.125692e-02 -1.363089e-02 -9.087262e-05  
## 100023842|66-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650662|57-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650857|56-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650871|15-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652354|41-T/G 0.003286525 0.003271066 -4.726074e-03 -5.695373e-03 -1.861233e-05  
## 6652712|18-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652897|32-G/A 0.004179208 0.004168757 -2.507046e-03 -3.022597e-03 -1.259415e-05  
## 6653119|17-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653277|45-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653413|34-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653686|19-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653906|8-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6656936|12-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658216|16-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661637|61-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6664071|59-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652420|13-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017654|43-G/C 0.003163107 0.003147730 -4.885226e-03 -5.886625e-03 -1.851140e-05  
## 100021742|38-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100044665|10-T/G 0.006268562 0.006285851 2.750358e-03 3.319424e-03 2.087688e-05  
## 100064985|48-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065246|12-A/G 0.003166837 0.003148351 -5.871556e-03 -7.076562e-03 -2.225334e-05  
## 100066557|28-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100082397|38-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650620|8-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650692|56-G/A 0.006491810 0.006423849 -1.057948e-02 -1.280543e-02 -8.208607e-05  
## 6650978|6-G/A 0.005618686 0.005566077 -9.451674e-03 -1.142770e-02 -6.348722e-05  
## 6651221|15-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651235|33-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651703|33-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651891|44-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652170|11-A/G 0.010665166 0.010587853 -7.302025e-03 -8.869843e-03 -9.377545e-05  
## 6652463|46-A/C 0.010271961 0.010392549 1.160330e-02 1.403590e-02 1.462073e-04  
## 6652496|43-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653226|65-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653778|39-T/A 0.003167849 0.003148520 -6.139009e-03 -7.399307e-03 -2.326826e-05  
## 6654074|20-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658572|16-A/G 0.003424269 0.003405179 -5.606208e-03 -6.758143e-03 -2.298688e-05  
## 6661139|49-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661309|12-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661345|40-C/G 0.003286416 0.003271048 -4.698428e-03 -5.662024e-03 -1.850335e-05  
## 6662659|12-A/C 0.003286949 0.003271136 -4.834097e-03 -5.825678e-03 -1.903816e-05  
## 100120331|53-T/G 0.006266596 0.006285523 3.011242e-03 3.634089e-03 2.285590e-05  
## 100020242|53-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021807|31-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065925|36-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100066073|6-T/C 0.006521859 0.006231009 -4.667770e-02 -5.691226e-02 -3.513102e-04  
## 100102122|31-C/A 0.003163107 0.003147730 -4.885226e-03 -5.886625e-03 -1.851140e-05  
## 6650428|57-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652370|62-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653373|60-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653417|48-C/G 0.003421426 0.003404705 -4.911169e-03 -5.919451e-03 -2.013419e-05  
## 6653777|46-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653792|53-C/A 0.003105648 0.003089624 -5.186302e-03 -6.249433e-03 -1.928837e-05  
## 6654058|18-T/C 0.004543464 0.004510998 -7.197062e-03 -8.688399e-03 -3.913693e-05  
## 6661147|26-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661226|53-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661658|19-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661670|43-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6663906|23-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6664040|9-G/T 0.003649830 0.003627629 -6.120177e-03 -7.380149e-03 -2.673967e-05  
## 100017806|36-A/G 0.003504305 0.003477569 -7.688057e-03 -9.272369e-03 -3.219573e-05  
## 100019553|65-G/A 0.004649830 0.004632996 -3.633381e-03 -4.383611e-03 -2.029450e-05  
## 100020150|48-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022824|15-T/C 0.004793158 0.004767114 -5.463287e-03 -6.594725e-03 -3.140345e-05  
## 100045255|15-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100064683|52-A/G 0.003050168 0.003033614 -5.456850e-03 -6.575431e-03 -1.992555e-05  
## 100065044|38-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065331|11-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100082376|10-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100114017|32-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650513|52-C/T 0.004663536 0.004635281 -6.095647e-03 -7.358019e-03 -3.406490e-05  
## 6650793|26-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650805|11-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650968|18-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651099|28-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651150|45-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651383|67-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651541|66-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651588|49-C/T 0.013746428 0.013865145 8.562303e-03 1.040016e-02 1.444467e-04  
## 6651711|11-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651715|59-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651731|68-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652027|41-G/A 0.003105415 0.003089586 -5.123420e-03 -6.173582e-03 -1.905426e-05  
## 6652109|27-A/G 0.009034059 0.008815618 -2.477883e-02 -3.015511e-02 -2.645185e-04  
## 6652130|35-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652152|19-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652278|43-G/C 0.003049140 0.003033443 -5.174936e-03 -6.235370e-03 -1.889506e-05  
## 6652658|29-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652840|16-G/A 0.004833758 0.004773880 -1.254273e-02 -1.516242e-02 -7.220200e-05  
## 6652867|64-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652883|26-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653149|58-C/T 0.004337556 0.004284179 -1.245888e-02 -1.505330e-02 -6.433033e-05  
## 6653187|24-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653229|41-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653591|11-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653796|8-T/C 0.003499826 0.003476823 -6.616165e-03 -7.977839e-03 -2.770083e-05  
## 6653829|21-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653872|47-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653967|40-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657086|36-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657671|40-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657902|21-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661102|10-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661477|67-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661483|14-G/C 0.011738429 0.011877040 1.167047e-02 1.413791e-02 1.683085e-04  
## 6661530|26-C/G 0.003991606 0.003972146 -4.899078e-03 -5.908242e-03 -2.344541e-05  
## 6661560|54-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661564|45-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6662672|28-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6664046|51-T/C 0.006156297 0.006170082 2.234241e-03 2.696492e-03 1.664501e-05  
## 6664055|23-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100120332|58-C/A 0.006266451 0.006285499 3.030452e-03 3.657258e-03 2.300162e-05  
## 100120330|33-G/T 0.006384668 0.006405992 3.328657e-03 4.017381e-03 2.575244e-05  
## 100015220|59-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016151|11-T/C 0.004083547 0.004068125 -3.790962e-03 -4.571273e-03 -1.858241e-05  
## 100016562|12-G/A 0.010842645 0.010748080 -8.798352e-03 -1.069257e-02 -1.147224e-04  
## 100016798|34-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021467|36-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065538|21-A/T 0.010269332 0.010392111 1.181462e-02 1.429088e-02 1.488634e-04  
## 100065912|28-G/A 0.015298204 0.015175963 -8.054905e-03 -9.831893e-03 -1.489681e-04  
## 100098480|21-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650742|33-G/A 0.003353621 0.003336715 -5.066810e-03 -6.106819e-03 -2.035606e-05  
## 6650889|38-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651263|53-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651318|7-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651340|27-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651392|24-C/T 0.003163200 0.003147745 -4.909962e-03 -5.916461e-03 -1.860522e-05  
## 6651403|11-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651475|6-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651645|50-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651662|13-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651726|49-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651740|27-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651858|23-A/G 0.003425557 0.003405393 -5.921076e-03 -7.138168e-03 -2.427948e-05  
## 6651880|60-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651889|58-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651919|45-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652026|29-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652151|12-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652259|45-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652382|40-G/A 0.014657514 0.014732758 5.107267e-03 6.213541e-03 9.163611e-05  
## 6652492|21-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652504|25-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652541|50-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652568|29-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652593|5-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652667|36-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652794|64-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652856|20-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653235|13-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653395|26-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653420|50-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653458|58-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653463|23-A/G 0.008473561 0.008534767 7.171369e-03 8.666756e-03 7.407484e-05  
## 6653479|25-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653599|33-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653745|15-T/C 0.012588153 0.012781786 1.514914e-02 1.835511e-02 2.353219e-04  
## 6653871|33-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653881|45-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657644|31-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657994|16-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658139|28-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658379|30-A/G 0.004526086 0.004508101 -3.989309e-03 -4.812777e-03 -2.167917e-05  
## 6658529|38-A/G 0.003650034 0.003627663 -6.166907e-03 -7.436570e-03 -2.694410e-05  
## 6658559|22-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658652|28-T/C 0.003576743 0.003551207 -7.190835e-03 -8.672449e-03 -3.075336e-05  
## 6658660|28-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661093|40-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661130|16-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661369|40-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661393|35-C/A 0.003495810 0.003476153 -5.654563e-03 -6.816989e-03 -2.367010e-05  
## 6661665|50-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661672|7-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661712|36-C/T 0.004319601 0.004281187 -8.972804e-03 -1.083352e-02 -4.629709e-05  
## 6663057|27-A/C 0.003163107 0.003147730 -4.885226e-03 -5.886625e-03 -1.851140e-05  
## 6663982|51-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6665517|21-A/T 0.014791429 0.014852626 4.120247e-03 5.014396e-03 7.453832e-05  
## 6665665|51-T/C 0.003107188 0.003089881 -5.601043e-03 -6.749762e-03 -2.083260e-05  
## 6665807|65-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100104824|10-C/A 0.007543822 0.007570435 3.515417e-03 4.247580e-03 3.217864e-05  
## 100020394|66-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020441|43-A/C 0.009154487 0.009241797 9.447316e-03 1.141994e-02 1.057402e-04  
## 100021095|9-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021324|61-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100044982|27-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6633176|7-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650394|45-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650524|64-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650526|41-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650616|12-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650617|39-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650695|29-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650768|33-C/T 0.003163399 0.003147778 -4.962348e-03 -5.979650e-03 -1.880393e-05  
## 6650776|41-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650824|6-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650856|61-G/C 0.004180750 0.004169014 -2.815100e-03 -3.394213e-03 -1.414255e-05  
## 6650931|6-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650932|50-A/G 0.003224619 0.003208377 -5.062410e-03 -6.100722e-03 -1.955360e-05  
## 6650935|64-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650950|61-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650971|13-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651076|54-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651094|7-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651112|44-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651140|51-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651141|28-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651166|8-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651232|36-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651234|42-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651248|33-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651256|30-A/G 0.004526086 0.004508101 -3.989309e-03 -4.812777e-03 -2.167917e-05  
## 6651296|34-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651362|29-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651505|25-A/G 0.008577141 0.008373968 -2.426245e-02 -2.951003e-02 -2.459169e-04  
## 6651536|18-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651549|18-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651584|29-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651585|28-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651603|27-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651650|53-C/T 0.003896814 0.003879443 -4.477566e-03 -5.398934e-03 -2.092610e-05  
## 6651682|41-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651722|21-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651790|34-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651836|41-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651920|32-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651945|47-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651948|51-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651949|50-A/C 0.003570730 0.003550204 -5.781529e-03 -6.970757e-03 -2.471900e-05  
## 6651978|13-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651988|28-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651995|36-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651996|46-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652021|23-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652050|59-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652102|5-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652139|9-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652157|32-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652164|29-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652198|12-T/A 0.003163107 0.003147730 -4.885226e-03 -5.886625e-03 -1.851140e-05  
## 6652209|23-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652232|10-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652236|58-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652248|19-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652256|38-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652399|58-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652408|36-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652455|7-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652563|7-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652666|14-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652708|30-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652718|43-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652723|11-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652744|49-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652761|57-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652809|41-A/G 0.003421253 0.003404676 -4.868958e-03 -5.868522e-03 -1.996096e-05  
## 6652820|37-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652865|19-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653005|35-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653010|64-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653038|53-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653130|47-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653175|37-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653237|34-C/T 0.003642753 0.003626449 -4.495776e-03 -5.419529e-03 -1.963597e-05  
## 6653376|49-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653396|18-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653462|51-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653499|18-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653523|14-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653530|62-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653604|19-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653643|33-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653655|16-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653725|23-C/A 0.004181383 0.004169119 -2.941514e-03 -3.546725e-03 -1.477802e-05  
## 6653838|44-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653994|51-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6656884|31-A/G 0.005405018 0.005381123 -4.440582e-03 -5.362419e-03 -2.883021e-05  
## 6656889|19-A/G 0.003570478 0.003550162 -5.722333e-03 -6.899301e-03 -2.446561e-05  
## 6657085|18-T/G 0.003812249 0.003791941 -5.355785e-03 -6.458455e-03 -2.446385e-05  
## 6657130|23-G/T 0.007368720 0.007325681 -5.875086e-03 -7.110794e-03 -5.203020e-05  
## 6657217|6-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657267|27-G/T 0.003108680 0.003090130 -6.002945e-03 -7.234684e-03 -2.232927e-05  
## 6657331|17-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657391|26-A/G 0.007606675 0.007580911 -3.398646e-03 -4.112432e-03 -3.115479e-05  
## 6657478|16-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657485|17-C/T 0.005264859 0.005217754 -9.027762e-03 -1.091035e-02 -5.682475e-05  
## 6657548|20-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657600|33-G/A 0.003353621 0.003336715 -5.066810e-03 -6.106819e-03 -2.035606e-05  
## 6657637|34-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657667|22-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657873|49-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658002|34-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658172|30-C/A 0.006266272 0.006285469 3.054139e-03 3.685826e-03 2.318129e-05  
## 6658300|7-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658375|19-C/G 0.003647700 0.003627274 -5.631389e-03 -6.790054e-03 -2.460165e-05  
## 6658441|13-C/T 0.003651323 0.003627878 -6.462639e-03 -7.793661e-03 -2.823790e-05  
## 6658569|13-G/A 0.010996040 0.011091933 8.645234e-03 1.047152e-02 1.163502e-04  
## 6661094|36-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661297|9-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661311|33-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661392|20-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661396|55-T/C 0.004007657 0.003974821 -8.261048e-03 -9.969618e-03 -3.956198e-05  
## 6661401|35-G/A 0.004544437 0.004511160 -7.376609e-03 -8.905480e-03 -4.011478e-05  
## 6661459|27-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661496|33-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661598|62-A/G 0.006043597 0.006057771 2.339868e-03 2.823593e-03 1.711268e-05  
## 6661609|59-A/C 0.004009759 0.003975172 -8.700955e-03 -1.050146e-02 -4.167244e-05  
## 6661636|18-T/A 0.003165696 0.003148161 -5.569791e-03 -6.712453e-03 -2.110834e-05  
## 6661653|9-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661756|25-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661788|59-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661804|5-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661860|33-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6662701|6-A/G 0.003424171 0.003405162 -5.582320e-03 -6.729314e-03 -2.288882e-05  
## 6662705|5-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6662826|20-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6663036|30-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6663052|30-A/G 0.004780974 0.004765083 -3.334828e-03 -4.023702e-03 -1.916048e-05  
## 6663927|13-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6664053|24-C/T 0.003049231 0.003033458 -5.199678e-03 -6.265213e-03 -1.898549e-05  
## 6664315|17-A/G 0.004333982 0.004283584 -1.176544e-02 -1.421343e-02 -6.074117e-05  
## 6664393|35-G/A 0.004544437 0.004511160 -7.376609e-03 -8.905480e-03 -4.011478e-05  
## 100101004|14-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6664748|30-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6665122|15-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6665280|39-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6665349|39-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100109477|21-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6665749|9-T/C 0.003289746 0.003271603 -5.545730e-03 -6.684255e-03 -2.184397e-05  
## 6665804|12-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6665805|15-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6665809|11-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6665975|52-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6666169|13-T/A 0.003163107 0.003147730 -4.885226e-03 -5.886625e-03 -1.851140e-05  
## 6666355|23-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100123948|55-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022390|44-G/A 0.004525758 0.004508047 -3.928887e-03 -4.739823e-03 -2.135055e-05  
## 100023236|15-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100073694|7-G/A 0.003990156 0.003971904 -4.595121e-03 -5.541328e-03 -2.198940e-05  
## 100082381|22-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100098535|7-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100098787|33-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100123797|15-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6632181|18-G/A 0.009016076 0.008812621 -2.308681e-02 -2.808591e-02 -2.463676e-04  
## 6650384|58-A/G 0.003427794 0.003405766 -6.467920e-03 -7.798289e-03 -2.652479e-05  
## 6650392|28-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650405|15-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650425|36-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650440|25-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650441|46-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650503|7-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650511|35-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650582|52-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650601|22-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650694|13-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650707|5-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650750|63-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650751|7-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650881|41-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650887|8-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650895|17-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650942|29-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651068|27-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651106|54-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651126|7-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651199|46-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651277|12-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651309|58-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651440|6-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651559|24-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651568|46-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651596|5-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651608|37-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651626|23-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651670|12-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651678|31-T/G 0.003049140 0.003033443 -5.174936e-03 -6.235370e-03 -1.889506e-05  
## 6651702|11-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651729|48-A/G 0.009167950 0.009244041 8.231327e-03 9.952603e-03 9.215374e-05  
## 6651775|9-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651799|50-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651833|60-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651834|42-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651856|61-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651902|48-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651916|32-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651940|40-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651955|38-C/A 0.003286650 0.003271087 -4.757973e-03 -5.733851e-03 -1.873808e-05  
## 6652103|6-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652221|13-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652233|30-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652271|50-T/C 0.003289322 0.003271532 -5.437852e-03 -6.554086e-03 -2.141858e-05  
## 6652312|29-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652323|41-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652348|30-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652387|29-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652570|42-C/A 0.003049140 0.003033443 -5.174936e-03 -6.235370e-03 -1.889506e-05  
## 6652579|68-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652611|59-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652679|46-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652770|46-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652916|41-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652924|5-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653139|25-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653290|15-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653405|19-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653547|59-T/C 0.011687694 0.011868584 1.524106e-02 1.844933e-02 2.196348e-04  
## 6653608|25-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653635|5-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653678|35-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653689|26-T/A 0.003586018 0.003552752 -9.363222e-03 -1.129746e-02 -4.006191e-05  
## 6653786|26-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653788|50-G/A 0.003049140 0.003033443 -5.174936e-03 -6.235370e-03 -1.889506e-05  
## 6653837|14-C/T 0.021302625 0.021442594 6.527617e-03 7.993204e-03 1.716188e-04  
## 6653866|26-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653923|19-A/T 0.003163107 0.003147730 -4.885226e-03 -5.886625e-03 -1.851140e-05  
## 6653998|66-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6654062|37-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6654076|43-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6656943|6-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6656950|8-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657301|15-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657373|32-C/A 0.003353096 0.003336627 -4.935824e-03 -5.948788e-03 -1.982929e-05  
## 6657396|21-C/T 0.004092535 0.004069623 -5.630079e-03 -6.791505e-03 -2.760774e-05  
## 6657408|41-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657466|14-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657470|5-C/T 0.012665905 0.012590959 -5.952364e-03 -7.243091e-03 -9.108889e-05  
## 6657514|43-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657532|34-T/C 0.003902411 0.003880376 -5.678509e-03 -6.848684e-03 -2.654529e-05  
## 6657551|9-T/C 0.003289746 0.003271603 -5.545730e-03 -6.684255e-03 -2.184397e-05  
## 6657596|44-G/A 0.003730241 0.003708127 -5.963857e-03 -7.192002e-03 -2.663705e-05  
## 6657604|9-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657613|10-A/C 0.004079132 0.004067389 -2.887030e-03 -3.480636e-03 -1.414893e-05  
## 6657630|52-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657681|17-C/T 0.006709068 0.006673734 -5.294579e-03 -6.403190e-03 -4.268793e-05  
## 6657715|15-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657723|9-A/T 0.003981583 0.003970476 -2.797631e-03 -3.372465e-03 -1.338280e-05  
## 6657726|41-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657729|7-G/A 0.004086275 0.004068580 -4.349327e-03 -5.245170e-03 -2.132183e-05  
## 6657752|22-T/A 0.003049231 0.003033458 -5.199678e-03 -6.265213e-03 -1.898549e-05  
## 6657881|18-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658064|41-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658065|28-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658111|29-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658148|11-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658186|19-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658226|42-C/T 0.003049422 0.003033489 -5.252076e-03 -6.328416e-03 -1.917702e-05  
## 6658296|10-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658347|20-C/G 0.003986471 0.003971290 -3.822574e-03 -4.608972e-03 -1.828957e-05  
## 6658374|29-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658438|42-C/G 0.003356628 0.003337216 -5.816852e-03 -7.011888e-03 -2.337296e-05  
## 6658501|21-A/C 0.003164675 0.003147991 -5.300015e-03 -6.386980e-03 -2.008484e-05  
## 6658566|40-C/T 0.003049324 0.003033473 -5.225372e-03 -6.296206e-03 -1.907941e-05  
## 6661096|38-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661098|8-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661155|52-A/G 0.003050168 0.003033614 -5.456850e-03 -6.575431e-03 -1.992555e-05  
## 6661165|8-T/C 0.004780996 0.004765087 -3.338653e-03 -4.028320e-03 -1.918248e-05  
## 6661251|38-A/G 0.003650034 0.003627663 -6.166907e-03 -7.436570e-03 -2.694410e-05  
## 6661269|21-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661341|8-C/T 0.007868242 0.007925130 7.178213e-03 8.669722e-03 6.880732e-05  
## 6661391|21-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661466|12-C/T 0.004431363 0.004393531 -8.610817e-03 -1.039688e-02 -4.560035e-05  
## 6661555|18-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661659|40-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661684|52-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661698|59-T/A 0.003228160 0.003208967 -5.981208e-03 -7.209319e-03 -2.310679e-05  
## 6661775|7-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661797|49-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6662590|20-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6662615|6-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6662790|12-G/C 0.007242039 0.007202302 -5.517203e-03 -6.676307e-03 -4.803172e-05  
## 6662818|19-G/A 0.003814565 0.003792327 -5.864161e-03 -7.072234e-03 -2.678877e-05  
## 6662832|11-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6662835|7-G/C 0.003817203 0.003792766 -6.443074e-03 -7.771329e-03 -2.943685e-05  
## 6662944|22-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6662946|24-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6662996|36-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6663047|41-G/A 0.003223695 0.003208223 -4.822631e-03 -5.811479e-03 -1.862653e-05  
## 6663054|17-C/T 0.006709068 0.006673734 -5.294579e-03 -6.403190e-03 -4.268793e-05  
## 6663939|28-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6663975|44-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6663987|39-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6664296|7-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6664312|54-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6664428|37-G/A 0.004792627 0.004767025 -5.370554e-03 -6.482664e-03 -3.086983e-05  
## 100082074|52-T/C 0.008870334 0.008788330 -9.330937e-03 -1.131846e-02 -9.928472e-05  
## 6664722|41-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6665235|64-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6665278|5-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6665282|36-G/A 0.005844795 0.005763405 -1.412193e-02 -1.709423e-02 -9.824270e-05  
## 6665346|17-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6665662|22-T/C 0.003226190 0.003208638 -5.470000e-03 -6.592457e-03 -2.112967e-05  
## 6665663|28-T/A 0.003224718 0.003208393 -5.088111e-03 -6.131726e-03 -1.965297e-05  
## 6665849|25-C/T 0.004547581 0.004511684 -7.956429e-03 -9.606619e-03 -4.327306e-05  
## 6665877|33-T/C 0.003226096 0.003208623 -5.445817e-03 -6.563279e-03 -2.103615e-05  
## 6665879|38-A/T 0.003051343 0.003033810 -5.779253e-03 -6.964379e-03 -2.110418e-05  
## 6666358|65-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016475|46-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016905|48-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018192|15-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018375|55-C/G 0.003164519 0.003147965 -5.258775e-03 -6.337229e-03 -1.992839e-05  
## 100021981|25-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100045028|11-A/G 0.004935486 0.004907548 -5.692816e-03 -6.873088e-03 -3.369161e-05  
## 100065468|15-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065569|37-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100073412|16-T/C 0.014461771 0.013984369 -3.413822e-02 -4.185275e-02 -5.812882e-04  
## 100073701|13-G/T 0.003163582 0.003147809 -5.010929e-03 -6.038250e-03 -1.898821e-05  
## 100074011|18-G/C 0.004316132 0.004280609 -8.298549e-03 -1.001805e-02 -4.281219e-05  
## 100082459|38-C/A 0.003286650 0.003271087 -4.757973e-03 -5.733851e-03 -1.873808e-05  
## 100086150|10-G/T 0.003224066 0.003208285 -4.919092e-03 -5.927835e-03 -1.899947e-05  
## 100086229|17-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100086237|9-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100091190|32-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100091207|45-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100091251|13-T/C 0.020435083 0.020766958 1.598091e-02 1.951478e-02 4.065579e-04  
## 100096444|12-A/C 0.009143975 0.009240045 1.039715e-02 1.256558e-02 1.163480e-04  
## 100098472|22-C/G 0.003163291 0.003147760 -4.933800e-03 -5.945214e-03 -1.869564e-05  
## 100103647|6-C/A 0.010265025 0.010391393 1.216088e-02 1.470863e-02 1.532149e-04  
## 100107103|17-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650387|53-A/G 0.004083108 0.004068052 -3.701067e-03 -4.462792e-03 -1.814143e-05  
## 6650481|61-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650788|22-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651332|37-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651818|50-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651863|32-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652372|10-T/C 0.003421756 0.003404760 -4.992000e-03 -6.016976e-03 -2.046590e-05  
## 6652511|31-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652754|21-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652755|9-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653571|19-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653574|37-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653585|24-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657101|27-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657124|22-T/C 0.003226190 0.003208638 -5.470000e-03 -6.592457e-03 -2.112967e-05  
## 6657595|21-A/G 0.003577006 0.003551250 -7.252502e-03 -8.746932e-03 -3.101749e-05  
## 6657640|37-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657747|20-T/A 0.003653928 0.003628312 -7.060113e-03 -8.515229e-03 -3.085228e-05  
## 6657809|8-A/C 0.003109185 0.003090214 -6.138985e-03 -7.398842e-03 -2.283593e-05  
## 6657847|15-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657859|39-G/C 0.003109388 0.003090248 -6.193654e-03 -7.464814e-03 -2.303955e-05  
## 6657980|25-A/G 0.011338443 0.011149000 -1.699193e-02 -2.069449e-02 -2.299388e-04  
## 6658003|48-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658141|5-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658173|38-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658437|16-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658509|5-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658625|7-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661101|21-T/C 0.003642612 0.003626426 -4.463516e-03 -5.380605e-03 -1.949494e-05  
## 6661509|18-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661745|36-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661802|6-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661814|14-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6662656|29-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6662837|7-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6662873|7-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6662947|5-G/A 0.007345351 0.007303890 -5.676650e-03 -6.870186e-03 -5.012211e-05  
## 6663032|15-G/A 0.006649395 0.006602738 -7.066249e-03 -8.548341e-03 -5.636269e-05  
## 6664269|17-T/G 0.007837087 0.007770192 -8.609161e-03 -1.043056e-02 -8.090788e-05  
## 6664285|27-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6664757|14-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6664912|6-T/C 0.008340043 0.008003764 -4.201516e-02 -5.127307e-02 -4.069291e-04  
## 6665124|27-C/T 0.004008637 0.003974985 -8.466160e-03 -1.021758e-02 -4.054596e-05  
## 6665664|30-A/C 0.003164066 0.003147889 -5.138844e-03 -6.192550e-03 -1.947343e-05  
## 6665874|13-A/G 0.003164656 0.003147988 -5.294809e-03 -6.380699e-03 -2.006509e-05  
## 6665876|47-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6666225|7-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065638|51-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065980|45-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100073421|25-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100073630|15-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100073757|34-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100073948|30-G/A 0.003358460 0.003337521 -6.273740e-03 -7.563347e-03 -2.521116e-05  
## 100074014|19-T/A 0.003422678 0.003404913 -5.217382e-03 -6.288924e-03 -2.139090e-05  
## 100074068|17-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100082248|28-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100086042|5-C/T 0.019867111 0.019940691 3.689950e-03 4.514362e-03 9.008594e-05  
## 100093665|8-T/G 0.003287511 0.003271230 -4.977023e-03 -5.998097e-03 -1.960162e-05  
## 100098602|36-T/A 0.005301946 0.005223935 -1.493329e-02 -1.806943e-02 -9.411162e-05  
## 100098836|24-A/C 0.007877606 0.007926691 6.192408e-03 7.480628e-03 5.937006e-05  
## 100102147|13-C/T 0.004527349 0.004508312 -4.222635e-03 -5.094510e-03 -2.294824e-05  
## 100121015|18-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100066223|13-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100106210|14-T/G 0.012042769 0.012065608 1.892883e-03 2.298278e-03 2.774062e-05  
## 6665285|9-C/T 0.005831774 0.005761234 -1.224387e-02 -1.481510e-02 -8.514428e-05  
## 6661710|31-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653668|61-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100024870|39-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6663929|41-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019092|30-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661298|58-T/C 0.003916137 0.003882664 -8.621196e-03 -1.040405e-02 -4.032577e-05  
## 100016534|66-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100023056|37-G/A 0.007730952 0.007748440 2.257032e-03 2.728309e-03 2.114968e-05  
## 100082643|25-G/C 0.009968024 0.009871160 -9.812818e-03 -1.191733e-02 -1.174070e-04  
## 100064775|20-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100023265|24-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651137|52-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652727|6-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021017|32-G/T 0.003497059 0.003476362 -5.953695e-03 -7.178053e-03 -2.492380e-05  
## 100073776|11-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015600|63-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6665051|27-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019246|34-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651056|34-C/T 0.008258641 0.008320885 7.480397e-03 9.037707e-03 7.531422e-05  
## 6661829|9-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6665126|22-A/C 0.006919548 0.006940295 2.989365e-03 3.610074e-03 2.506996e-05  
## 100016268|6-T/C 0.012357503 0.011980219 -3.149227e-02 -3.850610e-02 -4.584059e-04  
## 100020350|21-A/G 0.003577006 0.003551250 -7.252502e-03 -8.746932e-03 -3.101749e-05  
## 100023328|20-T/C 0.004780772 0.004765049 -3.299511e-03 -3.981060e-03 -1.895743e-05  
## 100066210|28-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661110|21-T/A 0.003227045 0.003208781 -5.691783e-03 -6.860061e-03 -2.198738e-05  
## 100018023|63-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020236|59-G/A 0.003289762 0.003271605 -5.549728e-03 -6.689079e-03 -2.185974e-05  
## 100021188|32-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021960|39-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100023459|46-A/G 0.011836941 0.011842800 4.947335e-04 6.007323e-04 7.115056e-06  
## 100017280|64-T/G 0.012049580 0.012061173 9.612463e-04 1.167340e-03 1.408219e-05  
## 100018247|39-T/A 0.003423785 0.003405098 -5.487869e-03 -6.615328e-03 -2.250112e-05  
## 100021898|39-C/T 0.009346447 0.009273791 -7.834612e-03 -9.505128e-03 -8.801044e-05  
## 100022093|45-A/T 0.003352020 0.003336448 -4.667321e-03 -5.624873e-03 -1.874958e-05  
## 100023129|9-T/A 0.003354800 0.003336911 -5.360974e-03 -6.461752e-03 -2.153917e-05  
## 100023441|20-A/G 0.005281995 0.005220610 -1.175822e-02 -1.421822e-02 -7.405323e-05  
## 100065302|16-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100066548|17-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650550|11-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016077|58-A/G 0.003729067 0.003707931 -5.700207e-03 -6.873688e-03 -2.545810e-05  
## 100018469|20-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019543|16-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020860|10-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022172|17-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100045257|30-G/T 0.003163519 0.003147798 -4.994250e-03 -6.018131e-03 -1.892494e-05  
## 6650546|47-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653399|26-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015390|53-T/G 0.004178565 0.004168650 -2.378560e-03 -2.867613e-03 -1.194839e-05  
## 100017298|53-C/T 0.008264798 0.008321911 6.862970e-03 8.292814e-03 6.910679e-05  
## 100017444|58-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017989|5-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018126|55-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018257|27-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018350|18-A/T 0.003052243 0.003033960 -6.026087e-03 -7.262196e-03 -2.200666e-05  
## 100020244|19-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021605|34-G/T 0.003049762 0.003033546 -5.345612e-03 -6.441244e-03 -1.951892e-05  
## 100023076|20-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100023357|49-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653628|59-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661821|17-T/A 0.018054121 0.018441119 2.098559e-02 2.553853e-02 4.729357e-04  
## 100015255|25-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015707|14-A/T 0.003286687 0.003271093 -4.767189e-03 -5.744968e-03 -1.877440e-05  
## 100015710|46-C/T 0.005758539 0.005749029 -1.654280e-03 -1.997295e-03 -1.147871e-05  
## 100016017|19-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017899|6-A/G 0.003054056 0.003034262 -6.523529e-03 -7.862475e-03 -2.382568e-05  
## 100019473|54-C/T 0.004981092 0.004915149 -1.341613e-02 -1.622349e-02 -7.952689e-05  
## 100020145|63-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021743|44-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022776|55-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100023242|39-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100082188|29-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015628|14-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020893|36-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021540|61-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021665|36-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022938|66-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100023291|60-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661242|40-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661353|60-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016201|10-C/T 0.006049954 0.005968643 -1.362305e-02 -1.649210e-02 -9.816724e-05  
## 100016537|37-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016842|18-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016876|65-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016987|65-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017504|59-C/A 0.003105480 0.003089596 -5.140905e-03 -6.194673e-03 -1.911936e-05  
## 100019821|57-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020901|34-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021671|8-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021969|10-T/C 0.003421756 0.003404760 -4.992000e-03 -6.016976e-03 -2.046590e-05  
## 100022199|66-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022545|35-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022573|13-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022831|52-G/A 0.003737374 0.003709315 -7.564333e-03 -9.125057e-03 -3.379651e-05  
## 100066558|7-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016263|30-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016306|10-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017198|10-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017275|13-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017509|15-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018032|68-T/C 0.003361697 0.003338061 -7.080933e-03 -8.537872e-03 -2.845957e-05  
## 100018336|6-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018672|56-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019100|44-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019286|14-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019912|15-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020907|14-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021161|47-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021810|7-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100023367|18-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100064740|15-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653264|41-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6663072|37-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016098|7-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016143|59-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016740|12-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016777|38-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018407|47-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018609|48-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019034|62-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019293|6-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019468|41-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019644|45-T/C 0.004463637 0.004398910 -1.471436e-02 -1.778875e-02 -7.802083e-05  
## 100019745|64-C/T 0.006718106 0.006666347 -7.764184e-03 -9.394626e-03 -6.253059e-05  
## 100021138|40-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022777|45-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100066874|50-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100091157|27-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652941|42-T/C 0.004179450 0.004168797 -2.555316e-03 -3.080824e-03 -1.283677e-05  
## 6653902|40-C/T 0.003049324 0.003033473 -5.225372e-03 -6.296206e-03 -1.907941e-05  
## 6664728|12-C/T 0.005415639 0.005382893 -6.083332e-03 -7.348688e-03 -3.950908e-05  
## 100015633|60-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016193|8-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017485|19-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018162|27-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019061|21-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019334|15-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019756|22-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020056|55-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020924|20-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022009|9-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022323|36-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022703|5-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100023049|42-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100023218|64-G/T 0.003225318 0.003208493 -5.243774e-03 -6.319518e-03 -2.025486e-05  
## 100023269|66-A/G 0.003570742 0.003550206 -5.784347e-03 -6.974158e-03 -2.473106e-05  
## 100024832|25-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100044738|8-C/T 0.004178684 0.004168670 -2.402351e-03 -2.896310e-03 -1.206796e-05  
## 100065081|38-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065706|32-G/A 0.003105869 0.003089661 -5.245829e-03 -6.321239e-03 -1.951000e-05  
## 100096952|53-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651239|56-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651495|32-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652638|14-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653296|13-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661158|36-C/T 0.009217331 0.009252271 3.776374e-03 4.570355e-03 4.231810e-05  
## 100015381|11-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015413|40-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015882|61-G/T 0.004411767 0.004390265 -4.897552e-03 -5.908894e-03 -2.591620e-05  
## 100017512|41-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018395|5-T/C 0.003658646 0.003629098 -8.141906e-03 -9.822158e-03 -3.558753e-05  
## 100019423|68-C/G 0.003163578 0.003147808 -5.009922e-03 -6.037034e-03 -1.898439e-05  
## 100019434|60-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019704|32-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019785|27-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021066|30-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021425|47-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021475|63-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021915|65-G/A 0.003428967 0.003405962 -6.754395e-03 -8.144164e-03 -2.770124e-05  
## 100022373|12-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022606|28-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022910|49-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100025041|57-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100044554|19-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100064948|49-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065362|20-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650752|20-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652176|15-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653696|11-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6662909|25-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015291|39-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016129|26-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017225|65-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017536|38-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017676|8-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019216|7-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019420|52-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019494|63-G/T 0.003163384 0.003147776 -4.958538e-03 -5.975054e-03 -1.878948e-05  
## 100020318|21-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020532|11-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020604|29-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020745|51-A/C 0.003225596 0.003208540 -5.316072e-03 -6.406741e-03 -2.053443e-05  
## 100021499|21-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021838|13-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021978|37-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022031|7-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022223|45-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100023499|68-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100023507|21-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6634782|49-G/A 0.003290569 0.003271740 -5.755207e-03 -6.937034e-03 -2.267005e-05  
## 6650656|12-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652475|14-A/T 0.011155741 0.011170422 1.314299e-03 1.594532e-03 1.781628e-05  
## 6661333|17-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015448|67-A/T 0.003422704 0.003404918 -5.223580e-03 -6.296402e-03 -2.141633e-05  
## 100015469|19-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015537|12-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015992|7-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016029|18-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016274|21-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016854|18-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017144|48-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017489|57-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017909|16-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018611|43-C/A 0.013596327 0.013840129 1.761558e-02 2.135483e-02 2.965949e-04  
## 100018927|63-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019035|27-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019236|16-C/T 0.008699073 0.008759787 6.930999e-03 8.378571e-03 7.349624e-05  
## 100020671|26-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021001|60-T/A 0.004077943 0.004067191 -2.643561e-03 -3.186947e-03 -1.295507e-05  
## 100021318|46-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021549|61-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021863|20-C/T 0.004182042 0.004169229 -3.073093e-03 -3.705476e-03 -1.543948e-05  
## 100023205|16-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100044711|34-G/A 0.003904634 0.003880747 -6.155424e-03 -7.424603e-03 -2.877753e-05  
## 100064599|63-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065680|37-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100118396|21-A/G 0.007018467 0.006954769 -9.158978e-03 -1.108877e-02 -7.697856e-05  
## 6651534|52-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651570|59-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652200|26-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652872|49-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6654031|17-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661376|52-G/A 0.004416677 0.004391084 -5.828494e-03 -7.033420e-03 -3.084833e-05  
## 6662917|14-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6666226|12-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015950|5-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016109|31-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016805|54-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016861|15-T/C 0.003824042 0.003793906 -7.943193e-03 -9.583646e-03 -3.630169e-05  
## 100017893|45-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018244|41-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018636|16-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018890|25-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018982|31-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019094|40-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019137|21-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019699|26-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020118|29-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020890|29-C/T 0.014967896 0.015120912 1.011947e-02 1.230299e-02 1.864090e-04  
## 100021219|23-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021521|57-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022288|6-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022337|30-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022554|22-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100023064|19-G/A 0.003814565 0.003792327 -5.864161e-03 -7.072234e-03 -2.678877e-05  
## 100045690|24-G/A 0.003423042 0.003404974 -5.306215e-03 -6.396117e-03 -2.175550e-05  
## 6650514|37-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651982|15-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653247|28-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653292|47-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653430|58-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653481|64-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653533|6-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653865|59-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661831|60-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015200|15-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015297|26-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015382|10-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017834|8-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020258|46-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021617|53-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021932|18-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022038|23-C/A 0.003353575 0.003336707 -5.055285e-03 -6.092915e-03 -2.030972e-05  
## 100022622|15-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022667|15-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022800|24-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022903|55-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100023130|51-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100023154|5-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100023531|17-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100045599|24-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065227|31-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065691|24-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100066039|22-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100066092|14-C/T 0.004979333 0.004914856 -1.311870e-02 -1.586284e-02 -7.775902e-05  
## 100074069|38-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100106301|19-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650690|47-A/G 0.004000618 0.003973648 -6.787310e-03 -8.188603e-03 -3.249446e-05  
## 6651361|32-G/A 0.004179208 0.004168757 -2.507046e-03 -3.022597e-03 -1.259415e-05  
## 6652061|58-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652327|54-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653204|40-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653393|35-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653673|65-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653746|33-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661305|25-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6664067|16-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6664716|12-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015645|28-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016045|44-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016331|42-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017699|11-G/A 0.004402257 0.004388680 -3.093496e-03 -3.730918e-03 -1.636367e-05  
## 100018593|39-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018814|46-A/G 0.003496179 0.003476215 -5.742981e-03 -6.923709e-03 -2.404066e-05  
## 100019003|20-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019081|63-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019377|57-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019413|55-T/G 0.003642955 0.003626483 -4.542184e-03 -5.475524e-03 -1.983886e-05  
## 100019588|52-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021006|21-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021094|7-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022208|18-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022310|31-G/A 0.003227493 0.003208856 -5.808135e-03 -7.000461e-03 -2.243738e-05  
## 100022384|48-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022899|42-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100108128|12-A/T 0.003290321 0.003271698 -5.691927e-03 -6.860671e-03 -2.242049e-05  
## 6650846|64-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650911|65-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651088|5-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651399|12-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652520|9-A/G 0.006519389 0.006474406 -6.947957e-03 -8.403938e-03 -5.433490e-05  
## 6653133|15-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653564|53-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653709|31-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653720|68-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653797|40-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653874|10-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653907|59-A/G 0.005596510 0.005562381 -6.135655e-03 -7.413321e-03 -4.118512e-05  
## 6653965|43-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065805|29-G/T 0.005065845 0.005053062 -2.529861e-03 -3.052835e-03 -1.541836e-05  
## 6661880|32-C/T 0.005295174 0.005222807 -1.385601e-02 -1.676218e-02 -8.730303e-05  
## 100015400|35-T/C 0.004107054 0.004072043 -8.597994e-03 -1.037799e-02 -4.218695e-05  
## 100016174|6-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016241|19-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016653|31-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017080|12-A/T 0.003227660 0.003208883 -5.851314e-03 -7.052566e-03 -2.260438e-05  
## 100017172|64-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017659|13-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017936|42-T/C 0.003224353 0.003208332 -4.993374e-03 -6.017441e-03 -1.928667e-05  
## 100018252|52-A/G 0.006268075 0.006285769 2.814932e-03 3.397313e-03 2.136675e-05  
## 100018331|42-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019441|49-A/T 0.003165508 0.003148130 -5.520063e-03 -6.652455e-03 -2.091967e-05  
## 100020597|8-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020814|67-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022284|10-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022341|63-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100023203|29-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100023334|6-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100023527|5-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100082625|32-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6631600|18-G/A 0.031668358 0.033055838 4.197380e-02 5.158279e-02 1.719426e-03  
## 6634219|54-C/T 0.011839006 0.011893803 4.607142e-03 5.589657e-03 6.654353e-05  
## 6650605|38-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650666|57-T/A 0.009837865 0.009809579 -2.883518e-03 -3.496618e-03 -3.428056e-05  
## 6650850|54-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651176|17-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651223|56-T/G 0.003050692 0.003033701 -5.600803e-03 -6.749090e-03 -2.045179e-05  
## 6651266|67-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651497|13-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651500|53-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652020|49-C/T 0.012731448 0.012805669 5.795896e-03 7.036609e-03 9.021293e-05  
## 6652396|20-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652765|20-C/T 0.003288988 0.003271476 -5.352813e-03 -6.451479e-03 -2.108326e-05  
## 6653179|35-C/A 0.004292083 0.004276601 -3.620299e-03 -4.366247e-03 -1.865918e-05  
## 6653588|36-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653617|17-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653803|13-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653921|17-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6654071|34-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658453|44-C/T 0.008313551 0.007999348 -3.927847e-02 -4.790563e-02 -3.802034e-04  
## 6662623|41-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015396|38-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015614|19-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015961|7-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016361|49-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016600|22-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017130|57-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017328|47-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018645|27-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018647|11-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019579|57-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019755|66-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020516|10-T/C 0.003421756 0.003404760 -4.992000e-03 -6.016976e-03 -2.046590e-05  
## 100021870|45-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022119|34-G/A 0.003298218 0.003273015 -7.700377e-03 -9.285330e-03 -3.034422e-05  
## 100022158|40-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022170|46-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022467|38-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022708|55-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100023428|39-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100064901|22-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100066583|50-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100082198|48-A/G 0.004089465 0.004069111 -5.002041e-03 -6.033132e-03 -2.452493e-05  
## 100082209|53-T/A 0.003049140 0.003033443 -5.174936e-03 -6.235370e-03 -1.889506e-05  
## 100114666|37-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650551|48-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650640|8-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651037|14-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651123|16-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651198|35-C/T 0.005594591 0.005562061 -5.848443e-03 -7.065881e-03 -3.925489e-05  
## 6651548|20-C/G 0.003355091 0.003336960 -5.433388e-03 -6.549132e-03 -2.183044e-05  
## 6652349|48-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652912|31-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652960|9-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653047|24-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653111|54-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653182|48-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653306|31-C/A 0.003049140 0.003033443 -5.174936e-03 -6.235370e-03 -1.889506e-05  
## 6653329|47-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653695|53-T/C 0.003352354 0.003336503 -4.750673e-03 -5.725423e-03 -1.908474e-05  
## 6657908|24-T/C 0.005068958 0.005053581 -3.042907e-03 -3.672327e-03 -1.854710e-05  
## 6658488|17-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661172|54-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661256|38-C/G 0.003163613 0.003147814 -5.019017e-03 -6.048005e-03 -1.901889e-05  
## 6665238|10-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016051|64-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016065|42-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016173|67-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016227|33-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016734|15-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017686|33-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017703|8-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017977|13-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018439|16-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020203|19-G/A 0.010279048 0.010393730 1.103380e-02 1.334861e-02 1.390480e-04  
## 100021102|63-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021231|28-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021723|29-T/G 0.003288083 0.003271325 -5.122653e-03 -6.173788e-03 -2.017578e-05  
## 100022522|40-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022709|6-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100045624|6-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650668|41-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650746|17-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650807|17-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650886|31-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650934|11-G/A 0.003568359 0.003549809 -5.225507e-03 -6.299648e-03 -2.233918e-05  
## 6651435|37-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651778|31-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651783|65-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652191|59-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652464|36-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652873|35-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653077|56-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653537|32-A/G 0.006932452 0.006942446 1.439504e-03 1.738962e-03 1.207613e-05  
## 6653577|27-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653747|15-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661083|6-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661240|52-C/A 0.023811174 0.024338899 2.168239e-02 2.653844e-02 6.487174e-04  
## 6661424|62-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661830|19-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6665513|19-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661486|13-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015240|23-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016947|13-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018671|65-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019864|8-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019949|8-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020694|31-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022684|13-T/A 0.007867225 0.007924961 7.285288e-03 8.798848e-03 6.983213e-05  
## 100022926|58-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100023200|68-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100044609|42-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065342|51-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100066803|48-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100085950|35-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100108060|20-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6630419|14-G/A 0.003572835 0.003550555 -6.274954e-03 -7.566440e-03 -2.683135e-05  
## 6650581|35-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650628|40-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650650|35-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650684|65-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650719|47-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650735|38-G/C 0.014800474 0.015093008 1.938212e-02 2.351679e-02 3.563150e-04  
## 6650879|60-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651049|16-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651124|38-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651144|62-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651167|41-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651516|36-T/G 0.003287891 0.003271293 -5.073735e-03 -6.114771e-03 -1.998291e-05  
## 6651679|24-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651984|7-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652023|10-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652091|50-T/A 0.009673669 0.009782213 1.109603e-02 1.341553e-02 1.315248e-04  
## 6652242|32-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652409|10-T/C 0.003051902 0.003033903 -5.932768e-03 -7.149600e-03 -2.166545e-05  
## 6653236|64-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653348|13-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653637|32-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653657|58-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653943|15-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653959|63-A/G 0.003294518 0.003272398 -6.759606e-03 -8.149357e-03 -2.663189e-05  
## 6654028|68-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6654050|51-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6654072|32-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657061|32-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661522|65-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6665120|10-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100120328|20-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100120333|61-G/A 0.008097233 0.008124607 3.369264e-03 4.073377e-03 3.311689e-05  
## 100065668|5-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015835|6-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016061|39-G/C 0.007627927 0.007583189 -5.899635e-03 -7.142406e-03 -5.409831e-05  
## 100016656|14-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017602|16-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019319|48-T/C 0.015215222 0.015221055 3.832759e-04 4.670013e-04 7.108798e-06  
## 100019777|21-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021190|47-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022177|66-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100023241|6-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100044452|9-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065422|7-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100066442|52-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650473|26-A/G 0.004822639 0.004772027 -1.060602e-02 -1.281608e-02 -6.102897e-05  
## 6650482|38-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650496|24-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650610|24-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650644|49-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650834|54-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650842|16-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651138|26-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651261|54-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651453|19-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651597|59-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651744|34-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651756|62-G/A 0.004080522 0.004067621 -3.171569e-03 -3.823902e-03 -1.554432e-05  
## 6651812|33-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651980|42-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652201|21-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652243|14-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652864|38-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653219|11-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653248|20-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653427|25-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653971|28-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657006|6-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657540|27-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661088|54-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100082471|46-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661706|26-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6664071|6-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016295|41-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018466|44-G/A 0.010939247 0.011082467 1.292311e-02 1.563883e-02 1.737648e-04  
## 100020140|32-T/C 0.003105606 0.003089617 -5.174867e-03 -6.235640e-03 -1.924580e-05  
## 100020690|9-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020765|38-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021275|46-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100045738|12-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100082496|60-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650712|28-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650913|49-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650972|30-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651222|59-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651438|51-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651492|20-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651654|52-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651829|48-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651860|44-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651877|63-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651935|33-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651974|35-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651986|27-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652262|36-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652560|9-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652688|16-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652875|8-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653021|18-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653263|25-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653294|9-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653410|59-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653536|55-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653603|22-T/C 0.003226190 0.003208638 -5.470000e-03 -6.592457e-03 -2.112967e-05  
## 6653802|50-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653830|13-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653963|35-C/T 0.012558197 0.012471119 -6.982353e-03 -8.497251e-03 -1.058222e-04  
## 6654043|16-A/G 0.003424269 0.003405179 -5.606208e-03 -6.758143e-03 -2.298688e-05  
## 6658028|40-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661349|14-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661568|63-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661747|28-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6663960|60-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6663980|14-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019622|48-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019802|12-C/T 0.005415639 0.005382893 -6.083332e-03 -7.348688e-03 -3.950908e-05  
## 100020020|13-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021576|15-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022394|27-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100023389|57-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100023502|39-T/A 0.003167849 0.003148520 -6.139009e-03 -7.399307e-03 -2.326826e-05  
## 100073839|28-C/G 0.009141399 0.009239616 1.062994e-02 1.284630e-02 1.189472e-04  
## 6635439|23-T/C 0.012190259 0.012244953 4.466675e-03 5.421314e-03 6.644304e-05  
## 6650563|22-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650688|61-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650747|16-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650772|42-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650861|34-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651030|62-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651225|58-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651322|19-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651329|44-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651331|12-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651353|65-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651374|45-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651589|18-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651687|45-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651748|42-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651933|62-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652449|21-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652527|63-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652542|24-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652684|46-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652730|63-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652782|44-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652925|43-T/C 0.009192684 0.009248163 5.998966e-03 7.256842e-03 6.719298e-05  
## 6653316|17-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653365|26-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653370|22-C/T 0.003298128 0.003272999 -7.677410e-03 -9.257593e-03 -3.025357e-05  
## 6653474|66-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653556|52-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653733|18-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653741|19-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653765|48-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653879|16-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6654049|52-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657335|32-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658312|10-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661127|7-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661289|11-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661380|15-T/G 0.004182664 0.004169333 -3.197380e-03 -3.855438e-03 -1.606432e-05  
## 6661529|31-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661563|46-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661785|56-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661832|23-C/T 0.003165313 0.003148097 -5.468736e-03 -6.590530e-03 -2.072494e-05  
## 6663079|11-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6665675|20-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6666102|6-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100121706|16-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015265|55-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015554|25-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017634|45-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018229|31-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018597|37-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018998|48-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019106|32-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100093589|24-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6632259|35-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6632582|5-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650532|52-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650756|47-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650830|17-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650851|66-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650928|5-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650987|34-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651080|35-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651107|37-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651110|32-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651196|62-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651288|46-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651442|63-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651613|49-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651658|42-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651720|6-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651765|63-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651802|34-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651873|50-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651874|53-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651906|20-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651943|26-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651957|58-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652104|41-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652143|61-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652149|28-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652158|57-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652181|32-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652211|12-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652240|22-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652269|40-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652459|65-C/T 0.004546814 0.004511556 -7.815104e-03 -9.435709e-03 -4.250319e-05  
## 6652473|56-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652516|46-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652757|25-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652797|7-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652811|14-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652891|17-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652914|32-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652922|32-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653051|5-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653071|48-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653276|22-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653337|5-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653343|21-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653392|28-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653404|15-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653456|52-A/G 0.003050168 0.003033614 -5.456850e-03 -6.575431e-03 -1.992555e-05  
## 6653484|18-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653641|8-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653669|32-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653732|48-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653735|8-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653739|44-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653814|28-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653826|65-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653844|35-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653895|16-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653898|20-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653961|15-T/C 0.006419958 0.006411873 -1.260905e-03 -1.523247e-03 -9.764402e-06  
## 6654048|23-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657273|10-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657733|25-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657825|20-A/C 0.003049140 0.003033443 -5.174936e-03 -6.235370e-03 -1.889506e-05  
## 6658114|32-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658233|5-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658363|20-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661157|31-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661223|43-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661238|20-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661454|19-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661478|59-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661581|31-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661584|33-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661734|17-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6662610|35-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6663909|13-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6664051|46-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6665119|8-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6666170|15-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6666170|17-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6666170|6-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018529|16-G/A 0.004833758 0.004773880 -1.254273e-02 -1.516242e-02 -7.220200e-05  
## 100019109|54-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020873|6-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020968|7-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021983|42-A/C 0.003982685 0.003970659 -3.028648e-03 -3.651122e-03 -1.448858e-05  
## 100022525|11-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065722|64-T/C 0.003815220 0.003792436 -6.007787e-03 -7.245661e-03 -2.744568e-05  
## 6650393|5-T/C 0.003658646 0.003629098 -8.141906e-03 -9.822158e-03 -3.558753e-05  
## 6650424|56-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650439|56-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650466|32-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650505|17-A/G 0.004333982 0.004283584 -1.176544e-02 -1.421343e-02 -6.074117e-05  
## 6650506|45-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650533|15-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650557|47-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650621|36-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650631|22-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650685|22-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650724|18-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650838|22-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650866|40-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650867|54-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650893|22-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650917|35-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650920|31-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651018|30-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651060|22-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651146|26-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651378|67-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651387|24-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651391|45-G/A 0.003648303 0.003627374 -5.769594e-03 -6.956892e-03 -2.520613e-05  
## 6651444|17-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651450|54-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651457|37-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651484|65-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651503|6-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651510|59-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651537|19-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651552|29-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651562|32-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651569|33-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651580|22-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651606|13-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651612|31-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651615|24-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651705|42-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651737|5-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651892|35-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651930|26-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651938|17-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652055|48-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652132|43-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652144|17-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652212|22-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652231|38-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652386|55-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652398|40-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652413|28-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652427|27-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652438|68-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652494|24-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652515|15-A/G 0.009291483 0.009264630 -2.898450e-03 -3.512796e-03 -3.252589e-05  
## 6652518|57-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652535|53-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652564|55-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652619|16-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652816|67-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652945|37-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653041|46-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653142|49-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653144|56-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653148|46-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653163|62-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653369|63-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653408|40-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653429|7-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653439|17-G/C 0.010547135 0.010438411 -1.041569e-02 -1.265843e-02 -1.318587e-04  
## 6653493|47-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653501|7-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653502|28-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653504|7-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653563|7-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653593|19-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653740|20-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653755|14-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653790|16-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653834|11-T/C 0.003290799 0.003271778 -5.813523e-03 -7.007408e-03 -2.290003e-05  
## 6653851|28-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653936|33-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653989|22-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6654038|30-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6654047|8-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6654066|45-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657075|25-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657215|14-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657652|33-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658198|15-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658380|19-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658597|10-T/C 0.003421756 0.003404760 -4.992000e-03 -6.016976e-03 -2.046590e-05  
## 6661103|59-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661108|53-A/G 0.003355589 0.003337043 -5.557707e-03 -6.699149e-03 -2.233050e-05  
## 6661557|11-G/A 0.003356421 0.003337181 -5.765327e-03 -6.949706e-03 -2.316569e-05  
## 6661627|50-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661879|7-T/C 0.004434147 0.004393995 -9.137824e-03 -1.103439e-02 -4.839647e-05  
## 6662888|24-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6662892|24-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6664359|17-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6664391|17-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6664780|11-C/T 0.004779224 0.004764791 -3.028946e-03 -3.654404e-03 -1.740192e-05  
## 6665039|22-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6666100|22-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6666102|30-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6654102|57-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016395|29-T/C 0.004029335 0.003978434 -1.279419e-02 -1.545469e-02 -6.132814e-05  
## 100020724|58-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022521|22-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022955|34-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100045457|17-G/A 0.003927348 0.003884532 -1.102222e-02 -1.330815e-02 -5.158196e-05  
## 100073683|46-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100093512|17-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100102305|42-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100121708|34-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650447|47-T/C 0.004563987 0.004514418 -1.098011e-02 -1.326567e-02 -5.975529e-05  
## 6650456|36-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650499|21-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650502|55-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650518|44-C/T 0.016990059 0.016720565 -1.611747e-02 -1.973888e-02 -3.289813e-04  
## 6650566|9-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650589|18-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650595|24-C/T 0.003163200 0.003147745 -4.909962e-03 -5.916461e-03 -1.860522e-05  
## 6650602|41-G/A 0.009142109 0.009239734 1.056579e-02 1.276895e-02 1.182310e-04  
## 6650625|38-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650630|7-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650642|21-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650708|55-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650731|33-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650777|15-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650798|22-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650874|54-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650892|52-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650926|30-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650951|18-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650983|20-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651002|11-G/T 0.004187779 0.004170185 -4.218871e-03 -5.088229e-03 -2.120096e-05  
## 6651006|19-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651015|9-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651028|11-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651064|34-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651075|68-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651082|17-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651108|57-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651169|15-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651211|35-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651214|29-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651218|36-A/G 0.004196313 0.004171608 -5.922277e-03 -7.145144e-03 -2.977143e-05  
## 6651236|9-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651265|9-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651293|36-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651299|48-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651311|22-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651316|37-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651339|7-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651360|17-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651411|25-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651455|40-A/G 0.004291411 0.004276489 -3.489454e-03 -4.208328e-03 -1.798431e-05  
## 6651480|6-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651535|17-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651553|40-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651633|11-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651642|43-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651652|13-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651653|46-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651666|39-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651668|54-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651692|43-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651779|57-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651819|25-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651894|54-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651913|20-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651928|6-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651950|10-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651962|57-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651979|59-G/T 0.003730180 0.003708116 -5.950002e-03 -7.175275e-03 -2.657509e-05  
## 6652004|68-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652041|41-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652076|24-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652082|47-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652128|6-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652178|42-C/T 0.018369348 0.018529968 8.668120e-03 1.057805e-02 1.963508e-04  
## 6652228|29-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652229|59-T/C 0.003648773 0.003627453 -5.877591e-03 -7.087270e-03 -2.567851e-05  
## 6652252|11-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652279|53-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652302|43-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652328|42-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652402|15-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652405|52-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652430|41-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652442|59-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652444|19-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652476|42-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652478|11-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652495|5-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652517|8-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652531|35-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652633|57-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652685|43-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652711|52-C/T 0.005769535 0.005750861 -3.247138e-03 -3.921724e-03 -2.253864e-05  
## 6652775|11-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652812|20-T/C 0.003361090 0.003337959 -6.929616e-03 -8.355162e-03 -2.785054e-05  
## 6652825|12-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652846|44-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652876|5-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652899|47-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652923|25-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652938|38-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652954|34-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652977|48-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653056|35-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653113|5-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653221|12-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653285|45-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653299|45-T/C 0.004463637 0.004398910 -1.471436e-02 -1.778875e-02 -7.802083e-05  
## 6653300|45-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653301|16-C/T 0.003814102 0.003792249 -5.762547e-03 -6.949542e-03 -2.632402e-05  
## 6653302|10-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653314|19-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653350|22-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653402|19-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653488|18-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653495|56-A/T 0.005459529 0.005390208 -1.286046e-02 -1.555729e-02 -8.364132e-05  
## 6653519|51-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653534|60-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653576|42-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653592|23-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653671|64-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653680|17-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653685|30-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653711|10-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653718|49-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653737|54-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653753|52-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653780|36-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653880|38-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653900|13-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653944|44-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653977|55-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653997|67-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6654006|12-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6654014|37-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6654041|11-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6654055|10-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6654086|14-G/A 0.003499184 0.003476716 -6.462561e-03 -7.792377e-03 -2.705686e-05  
## 6654088|35-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6656956|22-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657047|46-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657188|43-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657327|42-G/C 0.003105259 0.003089560 -5.081347e-03 -6.122833e-03 -1.889763e-05  
## 6657536|7-A/G 0.003576968 0.003551244 -7.243555e-03 -8.736126e-03 -3.097917e-05  
## 6657721|47-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657808|17-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657912|46-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658001|44-A/T 0.003049984 0.003033583 -5.406391e-03 -6.514561e-03 -1.974109e-05  
## 6658011|9-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658107|14-C/G 0.009262803 0.009207977 -5.954110e-03 -7.220331e-03 -6.640547e-05  
## 6658156|5-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658199|15-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658229|33-G/T 0.003105354 0.003089575 -5.107040e-03 -6.153824e-03 -1.899328e-05  
## 6658234|5-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658254|27-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658284|37-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658292|22-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658327|20-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658407|20-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658414|11-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658562|19-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658586|32-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658643|11-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658671|14-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661089|25-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661118|54-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661135|53-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661189|30-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661215|39-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661222|65-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661248|53-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661249|13-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661292|48-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661362|55-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661374|18-A/G 0.004105370 0.004071762 -8.253908e-03 -9.961965e-03 -4.049579e-05  
## 6661410|32-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661422|22-C/T 0.003298128 0.003272999 -7.677410e-03 -9.257593e-03 -3.025357e-05  
## 6661440|5-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661444|36-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661467|8-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661491|67-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661502|37-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661590|51-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661599|28-A/G 0.003654743 0.003628447 -7.246993e-03 -8.740961e-03 -3.167015e-05  
## 6661630|50-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661635|15-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661640|37-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661680|9-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661723|32-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661736|14-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661758|19-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661804|60-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661810|40-A/C 0.003223698 0.003208223 -4.823531e-03 -5.812564e-03 -1.863001e-05  
## 6661811|44-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661811|67-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661833|57-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661841|11-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661855|40-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661864|19-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661882|41-A/G 0.004398451 0.004388046 -2.371147e-03 -2.859303e-03 -1.254080e-05  
## 6661883|8-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661885|20-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6662600|6-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6662722|30-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6662742|10-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6662844|10-A/C 0.003164375 0.003147941 -5.220690e-03 -6.291284e-03 -1.978391e-05  
## 6662885|9-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6662886|27-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6662910|18-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6662926|18-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6663096|18-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6663907|45-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6663910|8-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6663965|32-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6663983|49-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6663986|51-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6664025|20-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6664038|20-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6664063|32-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6664295|6-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6664431|31-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6664713|15-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6665122|10-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6665220|17-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6665221|28-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100109498|18-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100109477|15-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100109477|9-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6665568|14-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6665571|10-T/C 0.004181929 0.004169210 -3.050546e-03 -3.678273e-03 -1.532614e-05  
## 6665805|26-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6666099|20-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6666516|59-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100124929|12-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016665|5-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016860|40-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019055|15-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019486|67-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020835|48-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100044994|33-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100064828|9-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100064931|32-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065941|26-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100073522|28-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100081694|12-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100093694|8-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100114698|38-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100121709|38-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6631771|63-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6643511|8-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650389|25-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650408|50-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650436|33-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650531|50-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650573|57-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650637|15-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650654|52-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650710|46-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650720|22-A/T 0.003224348 0.003208331 -4.992122e-03 -6.015931e-03 -1.928183e-05  
## 6650779|16-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650822|27-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650832|27-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650901|27-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650902|39-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650937|10-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650960|65-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651019|62-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651142|65-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651204|9-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651227|47-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651280|20-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651418|16-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651508|15-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651574|38-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651577|11-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651598|31-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651697|15-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651725|7-T/C 0.005596616 0.005562399 -6.151465e-03 -7.432448e-03 -4.129138e-05  
## 6651760|20-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651762|50-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651788|15-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651792|9-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651793|43-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651862|51-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651882|23-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651884|35-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651903|16-A/G 0.003424269 0.003405179 -5.606208e-03 -6.758143e-03 -2.298688e-05  
## 6651924|35-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651929|41-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651993|33-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651998|13-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652029|51-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652043|18-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652138|37-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652167|65-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652206|59-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652238|26-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652289|28-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652298|67-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652307|44-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652334|58-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652336|15-C/A 0.003573071 0.003550595 -6.330383e-03 -7.633364e-03 -2.706867e-05  
## 6652366|34-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652425|29-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652524|49-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652588|40-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652613|43-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652632|21-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652778|29-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652802|13-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652819|42-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652826|14-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653026|52-G/C 0.008262117 0.008321464 7.131759e-03 8.617117e-03 7.180930e-05  
## 6653068|62-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653116|22-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653218|66-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653354|23-C/A 0.004181383 0.004169119 -2.941514e-03 -3.546725e-03 -1.477802e-05  
## 6653444|44-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653464|25-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653494|25-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653568|59-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653672|51-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653690|24-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653700|47-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653713|41-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653736|20-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653875|30-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653968|66-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653974|33-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653991|65-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657021|28-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657102|16-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657128|18-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657132|5-A/C 0.005102448 0.005059162 -8.555999e-03 -1.033754e-02 -5.220982e-05  
## 6657178|34-G/A 0.003904634 0.003880747 -6.155424e-03 -7.424603e-03 -2.877753e-05  
## 6657193|53-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657201|19-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657204|30-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657318|9-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657354|8-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657383|35-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657458|5-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657566|43-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657607|43-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657631|9-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657655|8-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657745|21-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657813|21-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657950|26-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658016|18-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658025|28-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658074|26-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658086|13-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658116|19-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658140|8-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658176|39-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658256|13-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658270|50-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658309|15-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658382|35-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658386|9-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658396|48-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658416|19-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658448|12-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658539|20-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658593|6-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658605|5-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658616|40-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658646|18-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661133|7-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661179|34-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661195|26-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661294|16-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661342|14-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661347|62-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661359|29-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661360|12-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661375|25-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661390|29-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661411|10-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661415|7-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661429|43-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661461|24-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661525|21-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661561|6-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661611|46-A/C 0.003811935 0.003791888 -5.286880e-03 -6.375274e-03 -2.414877e-05  
## 6661622|45-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100097038|21-G/A 0.019621662 0.019553802 -3.470446e-03 -4.250836e-03 -8.306231e-05  
## 6661741|18-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661767|9-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661768|5-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661780|15-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661784|18-A/G 0.004667543 0.004635949 -6.815180e-03 -8.227782e-03 -3.809158e-05  
## 6661801|15-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6662572|23-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6662577|20-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6662598|13-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6662619|18-C/T 0.010540075 0.010437235 -9.853207e-03 -1.197340e-02 -1.247229e-04  
## 6662621|6-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6662686|27-C/T 0.004008637 0.003974985 -8.466160e-03 -1.021758e-02 -4.054596e-05  
## 6662729|33-C/T 0.003981951 0.003970537 -2.874625e-03 -3.465333e-03 -1.375132e-05  
## 6662743|22-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6662903|44-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6664062|57-T/C 0.004957381 0.004911197 -9.403717e-03 -1.136205e-02 -5.569632e-05  
## 6664077|54-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6664087|35-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6664282|11-G/A 0.003356421 0.003337181 -5.765327e-03 -6.949706e-03 -2.316569e-05  
## 6664352|17-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6664715|34-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6665049|6-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6665121|17-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6665508|35-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6665515|61-A/G 0.003988035 0.003971551 -4.150475e-03 -5.004666e-03 -1.985979e-05  
## 6665540|8-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6665849|33-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6666095|7-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6666174|7-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6666520|31-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015941|21-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016251|35-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016732|29-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100045346|24-C/T 0.003163200 0.003147745 -4.909962e-03 -5.916461e-03 -1.860522e-05  
## 100045582|33-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100045632|7-G/A 0.004086275 0.004068580 -4.349327e-03 -5.245170e-03 -2.132183e-05  
## 100064767|54-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100064928|53-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065927|39-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100074119|31-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100082416|45-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100085968|36-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100091287|38-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100093420|8-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100104859|48-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100121707|24-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650478|7-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650577|59-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650765|26-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651007|49-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651119|61-A/G 0.003356407 0.003337179 -5.761709e-03 -6.945339e-03 -2.315113e-05  
## 6651133|33-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651237|16-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651693|21-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651704|49-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651952|32-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652155|42-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652275|21-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652283|16-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652292|40-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652303|27-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652553|13-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652626|33-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652630|7-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652656|7-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652758|10-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653200|23-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653877|30-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653984|20-G/T 0.003105606 0.003089617 -5.174867e-03 -6.235640e-03 -1.924580e-05  
## 6656875|8-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6656924|30-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6656996|5-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657117|41-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657154|6-G/A 0.013689595 0.013855673 1.198628e-02 1.454830e-02 2.020597e-04  
## 6657156|29-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657483|18-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657561|6-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657735|31-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657741|7-G/A 0.003990156 0.003971904 -4.595121e-03 -5.541328e-03 -2.198940e-05  
## 6657814|9-A/G 0.003165683 0.003148159 -5.566457e-03 -6.708430e-03 -2.109569e-05  
## 6657850|12-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657942|13-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657997|45-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658062|30-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658550|29-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658582|12-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658632|5-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661273|54-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661308|52-T/C 0.008046198 0.007954790 -1.149098e-02 -1.393305e-02 -1.105797e-04  
## 6661408|14-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661538|9-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661791|66-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661818|22-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6662638|5-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6662824|38-C/T 0.004287111 0.004275772 -2.651927e-03 -3.197710e-03 -1.366543e-05  
## 6662887|8-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6663037|41-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6664882|7-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6665050|32-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6665295|5-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019888|47-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100045453|46-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100045704|9-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100064586|17-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100066059|7-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100074054|47-T/A 0.008028497 0.007951839 -9.640243e-03 -1.168445e-02 -9.273371e-05  
## 100082120|8-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100086057|9-A/G 0.004181547 0.004169147 -2.974277e-03 -3.586252e-03 -1.494272e-05  
## 100086096|24-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100093333|41-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100098548|28-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100104693|28-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100104890|20-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100106918|8-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100086278|15-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100098561|7-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100112393|13-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6665409|19-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100106209|11-T/A 0.011415432 0.011441356 2.265804e-03 2.749115e-03 3.146786e-05  
## 6652014|36-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016895|29-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661843|44-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652389|64-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661649|50-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657666|21-A/T 0.008071844 0.008120375 5.976504e-03 7.221533e-03 5.871165e-05  
## 6661268|63-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100023082|28-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017188|42-C/G 0.003356628 0.003337216 -5.816852e-03 -7.011888e-03 -2.337296e-05  
## 6661288|45-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021319|48-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100045470|27-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661435|57-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065514|5-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6630387|13-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065726|10-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653782|5-C/T 0.008739415 0.008766511 3.090859e-03 3.739420e-03 3.280193e-05  
## 100021899|36-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100066454|16-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065272|30-T/C 0.025214837 0.025569994 1.388960e-02 1.705129e-02 4.372125e-04  
## 100066129|22-G/A 0.005780409 0.005752674 -4.821303e-03 -5.824818e-03 -3.347597e-05  
## 6653374|61-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6664733|54-T/A 0.009805735 0.009712993 -9.548268e-03 -1.159353e-02 -1.123928e-04  
## 100022349|67-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015942|46-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016792|52-G/C 0.003290544 0.003271736 -5.748888e-03 -6.929408e-03 -2.264512e-05  
## 100018206|33-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100064825|31-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100066202|30-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100073401|49-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6633382|47-T/C 0.016262174 0.016599251 2.030679e-02 2.467078e-02 4.111797e-04  
## 100021640|61-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022856|29-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100023978|37-A/T 0.004518623 0.004506858 -2.610544e-03 -3.148516e-03 -1.418250e-05  
## 6652591|64-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661464|50-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015796|50-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016769|29-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019373|29-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100023055|35-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100097014|5-T/G 0.003166399 0.003148278 -5.755761e-03 -6.936839e-03 -2.181396e-05  
## 6661225|60-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661548|33-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017088|61-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100023509|31-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015492|43-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018948|22-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020108|6-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020234|29-G/C 0.006275979 0.006287087 1.766684e-03 2.132656e-03 1.341293e-05  
## 100021104|60-G/C 0.003109136 0.003090206 -6.125830e-03 -7.382968e-03 -2.278694e-05  
## 100022438|10-G/T 0.003049822 0.003033556 -5.362094e-03 -6.461126e-03 -1.957917e-05  
## 100065777|27-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6634350|32-G/T 0.003497059 0.003476362 -5.953695e-03 -7.178053e-03 -2.492380e-05  
## 100015248|33-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016465|17-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016470|38-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017055|22-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020326|38-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020580|5-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020916|54-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022162|26-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022968|12-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100023214|50-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100023558|48-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065527|10-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100108046|10-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652805|19-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653649|51-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016806|34-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016973|34-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017185|9-C/T 0.013743178 0.013864604 8.757947e-03 1.063735e-02 1.477410e-04  
## 100019652|10-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020977|12-T/C 0.007879542 0.007927014 5.988576e-03 7.234701e-03 5.741826e-05  
## 100021791|20-G/A 0.003431819 0.003406437 -7.451110e-03 -8.985513e-03 -3.056297e-05  
## 100064895|33-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100064988|25-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653972|28-A/G 0.004413927 0.004390625 -5.307186e-03 -6.403656e-03 -2.808621e-05  
## 6658602|21-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015510|28-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016175|6-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016191|14-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018397|31-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019542|48-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020295|21-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020374|38-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021678|59-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100066638|43-T/G 0.003164317 0.003147931 -5.205256e-03 -6.272665e-03 -1.972536e-05  
## 6653330|11-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015953|68-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016139|30-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016326|61-C/T 0.003733038 0.003708593 -6.591593e-03 -7.950030e-03 -2.944456e-05  
## 100016487|19-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016577|32-A/G 0.005071039 0.005053927 -3.385856e-03 -4.086503e-03 -2.063890e-05  
## 100016760|26-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016954|51-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017145|65-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017289|41-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017927|57-A/G 0.006465471 0.006419459 -7.167617e-03 -8.669541e-03 -5.557398e-05  
## 100019119|41-A/C 0.007056146 0.007086190 4.239733e-03 5.119493e-03 3.630846e-05  
## 100019129|28-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020392|13-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021327|23-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022094|8-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100023476|68-C/T 0.003227665 0.003208884 -5.852817e-03 -7.054380e-03 -2.261019e-05  
## 100065094|17-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100082310|17-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100091292|53-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6633859|61-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651602|9-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653320|67-A/G 0.004787541 0.004766178 -4.482367e-03 -5.409566e-03 -2.575984e-05  
## 100015805|62-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016005|36-T/C 0.008009363 0.007648025 -4.724587e-02 -5.769800e-02 -4.371061e-04  
## 100017432|35-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019685|30-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020281|34-T/C 0.010600072 0.010727252 1.185580e-02 1.434536e-02 1.542512e-04  
## 100020816|17-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020920|57-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021124|31-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021513|63-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021836|10-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022515|43-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100023216|57-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100023496|7-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100023681|60-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065088|33-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065666|45-T/C 0.013726512 0.013861826 9.761642e-03 1.185386e-02 1.646369e-04  
## 100066471|53-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652033|13-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661430|6-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661570|26-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661730|63-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016186|12-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016774|44-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017111|47-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017208|21-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017523|52-T/C 0.007362110 0.007265666 -1.327395e-02 -1.608959e-02 -1.165913e-04  
## 100017874|53-A/G 0.011617456 0.011630687 1.137639e-03 1.380899e-03 1.606446e-05  
## 100018144|64-A/G 0.003226249 0.003208648 -5.485425e-03 -6.611069e-03 -2.118932e-05  
## 100018225|53-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018942|41-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019677|5-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022269|27-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100066082|15-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100066253|43-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100066444|14-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100114672|22-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651282|60-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651428|21-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652874|33-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015264|22-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015814|11-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015850|40-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016120|45-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017115|64-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017958|17-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018308|19-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018683|52-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019218|10-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019222|23-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020050|41-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020331|13-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020335|6-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021226|41-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021502|29-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021862|6-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021994|17-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022357|61-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022781|47-C/T 0.005112516 0.005060840 -1.021092e-02 -1.234127e-02 -6.232964e-05  
## 100023182|23-A/G 0.006527226 0.006475712 -7.955044e-03 -9.624083e-03 -6.222363e-05  
## 100023311|52-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100023534|68-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653500|12-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661123|54-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6665401|24-G/T 0.009765793 0.009797567 3.243005e-03 3.927438e-03 3.850429e-05  
## 100015499|31-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015907|12-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016631|34-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019009|45-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019123|42-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019424|28-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019445|67-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019654|17-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020359|57-A/G 0.016282845 0.016602696 1.926502e-02 2.341048e-02 3.901746e-04  
## 100020876|63-C/T 0.003420280 0.003404514 -4.630988e-03 -5.581428e-03 -1.898445e-05  
## 100022261|20-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022625|36-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100023251|49-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100090852|5-C/T 0.009959269 0.009869701 -9.075061e-03 -1.101962e-02 -1.085630e-04  
## 6653799|6-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661647|17-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015702|42-C/T 0.003049422 0.003033489 -5.252076e-03 -6.328416e-03 -1.917702e-05  
## 100015896|29-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016097|8-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016416|52-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016914|9-T/G 0.003163935 0.003147868 -5.104250e-03 -6.150819e-03 -1.934220e-05  
## 100017736|15-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018093|40-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018383|12-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018805|31-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018914|23-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019000|63-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019412|18-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019519|62-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019671|36-A/G 0.012572281 0.012779141 1.618729e-02 1.960859e-02 2.513922e-04  
## 100019895|42-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020000|31-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020210|64-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021670|11-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021761|67-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022043|14-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022106|27-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022213|48-C/T 0.010271927 0.010392543 1.160607e-02 1.403924e-02 1.462420e-04  
## 100022452|60-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022997|31-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065791|46-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100066265|30-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100066487|11-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100101063|5-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6634524|57-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652255|33-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661618|12-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015912|66-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015914|56-A/G 0.003496984 0.003476349 -5.935659e-03 -7.156282e-03 -2.484820e-05  
## 100016606|50-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016946|25-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017520|47-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018722|5-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019526|9-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019891|44-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020909|55-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020985|50-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021139|33-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021214|56-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021255|31-C/T 0.003565899 0.003549399 -4.648577e-03 -5.603465e-03 -1.987044e-05  
## 100021313|59-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022420|43-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022458|29-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022624|40-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022691|40-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100023114|8-T/A 0.003223826 0.003208244 -4.856681e-03 -5.852551e-03 -1.875818e-05  
## 100023164|37-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100023165|10-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100023475|55-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100024879|34-A/G 0.003646817 0.003627127 -5.428674e-03 -6.545359e-03 -2.371507e-05  
## 6650963|31-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650995|35-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015203|28-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015415|9-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015496|59-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015847|60-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015873|28-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015977|34-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016012|21-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016160|65-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016617|11-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016919|15-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016933|17-A/C 0.003724653 0.003707195 -4.709132e-03 -5.677433e-03 -2.102753e-05  
## 100017138|9-G/C 0.008261465 0.008321355 7.197202e-03 8.696070e-03 7.246725e-05  
## 100017592|13-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017929|18-A/C 0.003500028 0.003476856 -6.664412e-03 -8.036094e-03 -2.790311e-05  
## 100018201|42-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018285|15-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018596|39-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018944|19-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019340|48-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019515|10-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019761|17-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019817|32-A/G 0.003503101 0.003477369 -7.399882e-03 -8.924282e-03 -3.098709e-05  
## 100020455|16-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020993|47-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022157|60-A/G 0.006333841 0.006288705 -7.177468e-03 -8.680322e-03 -5.450962e-05  
## 100023102|7-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100045024|30-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065312|53-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100066063|67-C/T 0.004213879 0.004174535 -9.424722e-03 -1.137897e-02 -4.741239e-05  
## 100066423|46-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6634305|33-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651275|16-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652010|36-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661116|34-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6664719|65-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015734|66-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015877|41-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016028|28-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016794|51-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016930|62-C/T 0.003105078 0.003089530 -5.032768e-03 -6.064237e-03 -1.871678e-05  
## 100016976|17-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017073|58-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017352|5-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017471|13-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017594|43-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017596|13-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018057|54-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018384|20-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018436|8-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018459|29-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018601|57-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018886|5-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019401|38-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019538|40-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019682|13-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019773|68-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019884|7-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020084|63-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020358|5-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020410|17-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020846|22-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021982|22-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022352|35-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100023106|5-T/A 0.006710579 0.006673985 -5.483063e-03 -6.631399e-03 -4.420933e-05  
## 100023435|47-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100023548|13-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100064672|55-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100091227|51-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100121014|17-C/T 0.010362579 0.010407652 4.330726e-03 5.246744e-03 5.465359e-05  
## 6653240|15-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015605|26-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015623|29-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015712|9-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015915|16-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016293|25-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016319|36-T/C 0.009239945 0.008849932 -4.406957e-02 -5.385132e-02 -4.723800e-04  
## 100016723|21-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017173|15-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017697|22-G/A 0.004109576 0.004072463 -9.113087e-03 -1.100088e-02 -4.471903e-05  
## 100018492|22-T/C 0.004081095 0.004067716 -3.288909e-03 -3.965472e-03 -1.611981e-05  
## 100018548|16-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018796|68-C/T 0.008135875 0.008091447 -5.490664e-03 -6.650145e-03 -5.375021e-05  
## 100018865|11-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018936|13-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019019|18-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019086|21-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019131|12-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019765|29-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019951|22-C/T 0.004784091 0.004765602 -3.879596e-03 -4.681527e-03 -2.229299e-05  
## 100020346|50-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021253|53-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021441|53-T/C 0.003352354 0.003336503 -4.750673e-03 -5.725423e-03 -1.908474e-05  
## 100021634|50-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021664|5-T/C 0.004306814 0.004279056 -6.487017e-03 -7.828248e-03 -3.345405e-05  
## 100021900|25-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021918|16-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021944|59-G/C 0.003570205 0.003550117 -5.658366e-03 -6.822088e-03 -2.419180e-05  
## 100022064|57-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022439|9-G/A 0.003224606 0.003208375 -5.059155e-03 -6.096795e-03 -1.954101e-05  
## 100022958|60-G/A 0.003353855 0.003336754 -5.125141e-03 -6.177197e-03 -2.059066e-05  
## 100023335|10-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100066167|17-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652225|65-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653132|37-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653692|35-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661742|53-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6663972|39-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6664076|30-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015254|42-A/G 0.014552757 0.014622753 4.786772e-03 5.823379e-03 8.523535e-05  
## 100015421|66-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017443|50-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018227|9-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018684|33-T/C 0.003226096 0.003208623 -5.445817e-03 -6.563279e-03 -2.103615e-05  
## 100019036|18-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019346|5-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019642|57-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020216|59-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020462|12-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020825|41-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021447|5-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021487|10-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022350|27-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022637|44-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022974|38-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100023108|17-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100023245|57-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100023390|19-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100023533|34-T/C 0.005388370 0.005378348 -1.863314e-03 -2.248929e-03 -1.209101e-05  
## 100064760|51-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100064984|7-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6635254|28-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650882|51-G/T 0.004079955 0.004067526 -3.055482e-03 -3.683850e-03 -1.497500e-05  
## 6651794|65-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652456|5-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652956|28-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653074|11-G/T 0.003570786 0.003550214 -5.794728e-03 -6.986689e-03 -2.477549e-05  
## 6653246|55-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653257|11-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653558|37-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653841|24-C/G 0.003166749 0.003148337 -5.848421e-03 -7.048645e-03 -2.216555e-05  
## 6661717|50-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015306|34-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017026|18-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017183|63-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017740|39-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018186|14-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018502|54-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019407|9-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019597|22-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019799|11-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020064|5-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020467|61-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021342|19-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021726|23-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021853|38-A/G 0.004525751 0.004508046 -3.927428e-03 -4.738062e-03 -2.134262e-05  
## 100022073|47-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022174|61-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022237|64-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022450|28-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100023247|11-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100024830|48-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065475|5-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065743|19-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651542|50-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652006|5-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652136|34-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652490|28-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653164|33-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661138|57-G/A 0.019945180 0.019842054 -5.197351e-03 -6.370370e-03 -1.262698e-04  
## 6661286|13-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015294|55-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015312|26-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015717|58-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016035|58-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017166|55-C/G 0.003106465 0.003089761 -5.406361e-03 -6.514894e-03 -2.010770e-05  
## 100017336|19-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017436|6-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018333|8-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018623|26-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018949|25-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019179|31-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019378|46-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019715|11-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020007|20-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020186|42-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020325|12-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020984|22-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021063|19-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021116|47-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021276|48-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021323|21-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100023352|36-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100023524|20-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100064607|25-T/A 0.014068356 0.013918800 -1.074490e-02 -1.310603e-02 -1.820282e-04  
## 100064666|61-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100066449|6-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100104023|51-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651556|12-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651732|66-T/C 0.006768649 0.006469989 -4.616094e-02 -5.629031e-02 -3.608353e-04  
## 6652161|13-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653042|9-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661220|17-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015287|46-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015379|18-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015449|18-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016230|18-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016245|55-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016437|62-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017249|15-G/A 0.003723267 0.003706964 -4.397863e-03 -5.301821e-03 -1.963637e-05  
## 100018724|8-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018729|20-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018771|32-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019308|38-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019625|33-C/T 0.003049422 0.003033489 -5.252076e-03 -6.328416e-03 -1.917702e-05  
## 100019716|25-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020654|61-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021098|19-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021170|5-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021240|55-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021330|41-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021985|6-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022470|47-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022786|9-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022992|63-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100023087|65-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100023089|12-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065113|20-C/T 0.007874564 0.007926184 6.512607e-03 7.866911e-03 6.243580e-05  
## 100065660|34-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100082081|14-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650676|61-A/G 0.003356407 0.003337179 -5.761709e-03 -6.945339e-03 -2.315113e-05  
## 6650683|35-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650847|62-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651376|46-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651698|17-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652341|11-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652418|6-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652657|13-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653549|37-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653926|47-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661137|45-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661795|29-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6664067|38-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015300|34-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015553|64-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015662|64-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015747|67-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016172|45-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016321|25-T/C 0.004546715 0.004511540 -7.796848e-03 -9.413632e-03 -4.240375e-05  
## 100016379|15-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016524|6-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016678|13-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017389|39-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017447|10-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018638|48-T/C 0.005417780 0.005383250 -6.414302e-03 -7.749032e-03 -4.166146e-05  
## 100019669|13-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021395|62-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021505|40-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021653|13-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021672|31-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022109|34-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022563|58-C/T 0.003850325 0.003798287 -1.370062e-02 -1.654964e-02 -6.268803e-05  
## 100022828|22-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100023017|29-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100066440|62-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100066652|41-G/A 0.003105415 0.003089586 -5.123420e-03 -6.173582e-03 -1.905426e-05  
## 100096906|18-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6630114|53-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650736|10-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651252|16-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653034|28-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653152|22-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653197|10-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653543|62-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653729|12-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658435|49-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661280|18-T/C 0.006428226 0.006413251 -2.334929e-03 -2.821361e-03 -1.808564e-05  
## 6661782|19-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015470|41-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016237|28-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016452|17-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016620|23-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016680|26-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016867|47-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016970|8-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018066|41-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018458|45-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018598|40-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019260|10-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019313|6-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020459|17-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022183|15-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022219|59-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022324|20-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022476|18-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022820|44-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065830|50-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100073534|35-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100108129|53-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6631518|25-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650419|25-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650596|64-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650922|18-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650997|7-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651758|26-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652094|60-T/C 0.011437901 0.011447012 7.960057e-04 9.661051e-04 1.106078e-05  
## 6652276|10-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652446|14-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652850|15-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652911|22-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653387|31-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653442|7-A/G 0.003576968 0.003551244 -7.243555e-03 -8.736126e-03 -3.097917e-05  
## 6653457|43-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653666|33-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653913|54-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661714|10-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661819|18-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6665305|19-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015271|40-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015651|23-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016940|6-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017024|68-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018261|61-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018474|24-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018954|18-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019606|34-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019837|9-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020506|37-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020651|11-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021368|14-C/T 0.007987290 0.007944972 -5.326404e-03 -6.450019e-03 -5.119063e-05  
## 100021399|20-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021433|22-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021823|21-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022483|30-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022774|66-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100023022|43-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100023206|43-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100023292|16-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100023396|25-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100024289|11-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100045482|25-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065022|34-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065562|43-G/A 0.004078842 0.004067341 -2.827588e-03 -3.408931e-03 -1.385744e-05  
## 100065795|26-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100066292|25-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100073974|41-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100082647|16-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650814|43-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650908|37-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651113|11-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651346|28-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651709|24-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652049|29-T/C 0.004029335 0.003978434 -1.279419e-02 -1.545469e-02 -6.132814e-05  
## 6652500|45-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652777|22-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653333|13-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653390|14-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653414|31-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653728|20-G/T 0.003163644 0.003147819 -5.027309e-03 -6.058008e-03 -1.905034e-05  
## 6654032|23-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6654037|57-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657904|10-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661607|55-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661700|18-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6662767|16-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6664074|40-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6664074|44-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6664735|26-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6665238|34-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100124938|57-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015346|10-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016456|52-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016501|31-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017004|22-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017283|39-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017322|41-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017407|26-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017421|12-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018243|9-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018879|32-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019658|67-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020347|21-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021567|15-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021727|64-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100023434|25-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100066346|64-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100066369|51-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100066626|37-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6631525|11-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650677|49-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650829|66-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650865|22-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651274|64-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651327|26-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651363|38-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651684|66-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652046|31-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652267|48-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652284|17-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652529|31-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652900|9-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653610|43-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653665|46-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653751|12-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653876|40-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6654005|53-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6654018|46-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661150|29-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661536|5-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6664750|33-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100103994|12-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100103994|20-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100104021|9-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015729|18-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015952|21-T/A 0.003227045 0.003208781 -5.691783e-03 -6.860061e-03 -2.198738e-05  
## 100016302|16-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016507|10-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016962|46-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017543|65-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018176|18-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018259|44-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019881|23-C/A 0.003353575 0.003336707 -5.055285e-03 -6.092915e-03 -2.030972e-05  
## 100019923|11-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020081|6-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020349|28-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022424|20-G/A 0.003996909 0.003973030 -6.010331e-03 -7.250055e-03 -2.877006e-05  
## 100023400|43-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100044682|9-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100044750|30-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065250|9-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065326|31-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065589|31-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100066526|17-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100091166|12-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100091166|42-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650613|48-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650687|41-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650796|6-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650803|47-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651101|36-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651528|20-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651771|12-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651853|15-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652025|35-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652815|7-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652936|53-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653177|8-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653241|40-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653293|49-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653307|12-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653389|28-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653538|48-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653579|57-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653832|7-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661683|57-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661685|63-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661816|48-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661824|42-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661850|36-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661890|47-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6665337|42-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015757|13-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016204|33-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017468|57-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017967|62-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018112|46-A/C 0.003811935 0.003791888 -5.286880e-03 -6.375274e-03 -2.414877e-05  
## 100018165|13-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018718|21-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019849|5-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019859|8-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022136|24-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022312|53-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100045521|11-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065432|12-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065536|20-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100066606|52-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100082316|6-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100082368|14-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100097022|6-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100108129|36-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6631225|7-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6631997|14-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650612|10-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650648|12-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651035|6-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651242|13-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651289|37-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651290|54-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651373|58-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651393|29-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651401|31-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651427|13-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651437|43-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651445|36-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651476|13-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651646|25-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651749|48-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651841|8-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652088|32-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652192|52-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652260|63-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652326|50-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652369|31-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652422|33-T/C 0.003226096 0.003208623 -5.445817e-03 -6.563279e-03 -2.103615e-05  
## 6652547|9-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652893|32-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652909|24-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652955|18-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653017|55-G/A 0.003494054 0.003475861 -5.234200e-03 -6.309668e-03 -2.190857e-05  
## 6653103|52-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653677|36-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653708|16-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653903|37-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653934|25-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6654040|14-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6654091|9-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657832|39-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661183|41-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661274|44-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661675|22-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6663998|37-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6664011|37-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016463|53-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016812|38-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017567|49-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017961|50-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018143|16-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019099|54-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019383|33-G/T 0.003981937 0.003970534 -2.871771e-03 -3.461891e-03 -1.373766e-05  
## 100019940|39-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020427|36-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020660|8-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020677|22-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021361|48-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021511|43-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021828|33-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022057|11-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022783|26-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100064616|40-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065171|45-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065966|15-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100082527|51-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100082585|40-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100106949|10-G/A 0.046963181 0.049879666 5.847042e-02 7.277104e-02 3.672242e-03  
## 100117044|51-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650418|9-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650423|29-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650818|67-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651153|49-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651180|65-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651287|48-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651447|19-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651655|40-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651717|7-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651971|61-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651981|50-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652195|35-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652270|30-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652411|8-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652419|17-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652451|65-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652920|22-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653067|56-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653377|17-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653583|28-T/C 0.003576743 0.003551207 -7.190835e-03 -8.672449e-03 -3.075336e-05  
## 6653636|14-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653697|13-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653731|66-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653767|20-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653770|20-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653784|35-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653810|62-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653854|42-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653892|54-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653910|50-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6654022|30-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661470|52-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100066269|13-T/C 0.058521878 0.061907841 5.469361e-02 6.895771e-02 4.315720e-03  
## 6662979|27-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6664013|56-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6664771|32-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6665036|59-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015387|20-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016289|59-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017196|51-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017527|6-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017670|46-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018265|14-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018491|67-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019232|26-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019318|16-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019703|50-G/A 0.003105078 0.003089530 -5.032768e-03 -6.064237e-03 -1.871678e-05  
## 100019708|6-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019897|65-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020477|33-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022633|31-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100023423|28-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100064644|53-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065127|11-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100082124|16-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6632526|27-G/T 0.006641953 0.006662548 3.091174e-03 3.731904e-03 2.487936e-05  
## 6650445|31-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650584|38-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650848|20-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651173|50-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651298|24-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651530|41-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651782|31-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651907|9-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652024|30-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652131|34-G/A 0.004653200 0.004633558 -4.238998e-03 -5.114914e-03 -2.368016e-05  
## 6652159|67-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652177|21-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652210|27-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652401|28-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652416|68-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652713|26-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652866|10-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652983|43-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653039|43-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653044|17-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653092|18-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653202|68-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653253|13-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653255|39-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653445|25-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653487|29-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653527|21-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653922|36-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653930|13-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6654013|57-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657669|38-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658619|38-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661144|14-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661228|61-G/A 0.012584549 0.012781185 1.538486e-02 1.863977e-02 2.389714e-04  
## 6661239|28-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661757|61-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661837|5-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6663958|42-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6664017|22-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6665345|60-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6665563|37-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6665563|41-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6665563|7-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6666102|24-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015848|14-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016751|21-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017832|10-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017856|21-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018301|7-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019450|10-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019818|16-G/A 0.004833758 0.004773880 -1.254273e-02 -1.516242e-02 -7.220200e-05  
## 100019983|13-A/G 0.011158609 0.011170900 1.100292e-03 1.334956e-03 1.491594e-05  
## 100020502|50-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020602|47-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065169|68-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100066267|15-G/A 0.004182792 0.004169354 -3.223061e-03 -3.886424e-03 -1.619343e-05  
## 100066657|20-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6632946|54-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650395|54-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650450|36-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650539|5-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650675|13-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650760|49-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650770|63-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650778|15-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650888|42-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650948|22-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651067|68-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651104|14-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651269|64-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651380|66-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651460|39-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651469|31-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651565|25-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651594|47-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651714|59-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651809|19-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651814|64-A/G 0.010256262 0.010389933 1.286541e-02 1.555844e-02 1.620671e-04  
## 6652119|10-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652183|53-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652218|58-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652272|46-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652443|56-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652587|38-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652614|24-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652643|8-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652647|54-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652695|37-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652702|52-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652729|55-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652886|48-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653028|14-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653065|44-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653124|7-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653205|17-C/T 0.005264859 0.005217754 -9.027762e-03 -1.091035e-02 -5.682475e-05  
## 6653210|45-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653524|37-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653532|60-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653787|34-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653818|55-C/T 0.008740888 0.008766756 2.950758e-03 3.570027e-03 3.131602e-05  
## 6653820|23-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653825|25-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653908|59-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653938|33-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6656975|12-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658434|32-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661131|30-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661170|60-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661460|63-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100082330|10-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661516|30-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661542|10-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661650|9-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661787|54-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661807|10-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6663931|44-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6663966|33-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6664887|16-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6665234|5-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6666170|37-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016216|6-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016431|13-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016980|14-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017035|18-A/G 0.004667543 0.004635949 -6.815180e-03 -8.227782e-03 -3.809158e-05  
## 100018089|20-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018299|18-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019103|66-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020260|22-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020593|29-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021233|9-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022402|38-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022743|53-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100064690|24-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065349|19-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065841|23-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100074065|11-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650412|48-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650459|40-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650487|15-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650510|49-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650571|53-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650575|33-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650657|31-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650727|33-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650764|18-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650786|30-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650877|51-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650982|52-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650992|26-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651041|46-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651162|25-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651244|31-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651284|8-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651398|18-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651485|12-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651517|35-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651527|40-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651546|39-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651644|49-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651663|43-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651671|42-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651691|10-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651700|17-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651734|47-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651746|20-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651800|11-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651813|5-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651896|64-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651912|26-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651917|68-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652038|34-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652059|20-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652081|56-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652085|6-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652121|43-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652134|47-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652186|30-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652189|13-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652281|62-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652285|54-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652290|29-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652304|61-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652432|55-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652503|20-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652505|16-A/C 0.011862917 0.012078163 1.782105e-02 2.156514e-02 2.613956e-04  
## 6652521|39-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652525|37-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652601|21-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652602|25-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652606|48-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652624|28-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652668|15-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652670|16-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652721|10-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652733|37-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652745|53-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652752|31-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652791|49-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652818|11-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652862|15-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652881|22-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652972|10-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652998|52-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652999|57-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653082|48-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653098|9-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653162|29-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653274|28-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653325|64-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653332|57-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653357|42-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653362|53-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653412|42-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653426|18-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653440|10-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653465|26-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653468|58-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653470|47-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653503|52-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653589|18-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653681|55-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653716|66-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653721|50-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653756|39-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653768|57-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653772|52-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653912|41-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653970|10-G/T 0.004179079 0.004168735 -2.481179e-03 -2.991394e-03 -1.246414e-05  
## 6654035|9-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6654089|34-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657074|8-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657427|36-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658142|19-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658487|31-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658567|11-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661106|67-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661340|59-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661404|52-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661465|25-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661493|15-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661592|37-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661602|55-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661729|38-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661755|5-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661849|5-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6662667|9-T/C 0.003354876 0.003336924 -5.379977e-03 -6.484681e-03 -2.161560e-05  
## 6663069|39-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6663912|29-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6663945|17-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6665239|6-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6665353|11-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6665974|11-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6666103|68-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016182|32-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017836|20-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017869|6-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018411|68-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020222|50-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021008|5-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021734|34-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021842|6-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100045232|8-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065195|59-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100074076|12-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100114674|53-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650380|13-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650404|10-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650422|10-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650471|64-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650500|18-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650515|50-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650537|13-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650542|10-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650554|41-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650556|9-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650615|12-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650633|41-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650636|55-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650715|51-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650784|41-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650806|54-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650812|44-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650885|45-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650890|7-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650891|27-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650939|41-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651045|37-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651063|37-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651127|50-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651189|65-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651213|10-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651259|15-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651305|62-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651312|67-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651314|20-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651471|5-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651479|37-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651523|45-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651524|18-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651611|23-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651617|38-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651627|10-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651680|16-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651686|18-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651990|27-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652031|21-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652068|30-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652123|48-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652141|65-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652156|37-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652188|11-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652217|66-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652220|47-G/A 0.003426295 0.003405516 -6.101434e-03 -7.355870e-03 -2.501997e-05  
## 6652222|50-C/T 0.004200338 0.004172279 -6.725143e-03 -8.115127e-03 -3.381303e-05  
## 6652329|66-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652364|41-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652450|9-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652454|59-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652470|43-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652506|53-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652539|13-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652561|39-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652572|11-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652637|54-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652648|60-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652659|15-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652665|12-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652728|28-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652751|58-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652774|48-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652817|30-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652845|15-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652939|61-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652947|66-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653004|32-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653011|14-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653170|45-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653174|64-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653291|22-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653324|46-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653415|50-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653489|12-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653514|8-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653535|20-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653594|40-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653646|49-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653674|54-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653683|31-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653750|55-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653771|10-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653779|21-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653822|27-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653827|15-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653858|29-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653928|36-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653969|26-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6654051|34-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6654056|9-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6654078|12-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657388|11-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657512|7-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657941|41-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658094|46-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658571|22-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658640|12-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661287|22-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661315|34-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661316|17-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661420|51-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661453|6-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661468|17-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661489|62-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661552|5-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661577|44-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661601|15-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661629|40-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661651|60-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661703|29-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661728|35-C/T 0.008320769 0.008331239 1.256792e-03 1.520423e-03 1.267019e-05  
## 6662799|24-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6662820|22-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6662890|34-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6662898|11-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6662977|22-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6664083|6-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6664294|44-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6664720|7-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6665218|24-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6665351|57-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100109477|37-C/T 0.012574695 0.012779543 1.602939e-02 1.941798e-02 2.489484e-04  
## 6665629|41-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6665821|31-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016377|14-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016728|8-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017376|68-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018451|6-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019918|66-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022411|61-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100064620|27-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100064811|7-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065350|20-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100109953|9-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650460|21-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650519|57-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650579|51-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650580|37-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650607|66-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650671|45-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650689|52-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650703|19-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650815|7-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650944|60-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650965|12-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651031|38-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651069|41-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651089|58-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651139|39-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651355|22-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651367|34-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651487|9-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651578|26-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651593|32-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651619|40-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651620|38-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651675|34-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651806|49-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651821|15-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651825|51-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651968|21-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651983|9-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652057|5-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652073|37-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652074|10-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652115|60-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652197|23-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652244|39-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652249|29-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652338|5-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652392|7-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652466|57-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652514|66-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652554|50-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652556|53-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652589|8-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652749|25-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652753|11-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652776|45-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652806|6-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652834|26-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652885|65-C/G 0.003491475 0.003475431 -4.616463e-03 -5.564302e-03 -1.932049e-05  
## 6652929|66-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652935|47-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653073|5-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653088|16-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653093|44-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653104|55-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653436|11-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653497|6-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653639|65-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653645|43-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653769|16-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653927|44-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653953|41-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653987|61-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653993|15-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6654009|23-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6656879|21-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6656932|34-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657077|25-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657152|47-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657200|7-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657228|8-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657447|9-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657510|13-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657518|14-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657616|11-A/G 0.004935486 0.004907548 -5.692816e-03 -6.873088e-03 -3.369161e-05  
## 6657889|17-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657989|13-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657992|32-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658007|29-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658058|7-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658330|11-C/G 0.003289899 0.003271628 -5.584771e-03 -6.731365e-03 -2.199792e-05  
## 6658349|12-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658401|16-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658424|11-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658451|54-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658473|36-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658548|12-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658667|17-A/G 0.004333982 0.004283584 -1.176544e-02 -1.421343e-02 -6.074117e-05  
## 6661128|54-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661132|53-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661145|48-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661169|16-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661418|24-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661447|57-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661551|43-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661606|48-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661621|22-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661667|62-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661716|24-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661770|21-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6662676|12-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6662737|6-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6662747|22-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6662778|8-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6662831|7-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6662962|22-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6662984|35-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6663913|23-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6663996|47-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6664080|40-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6664712|24-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6665849|24-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6665849|27-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019306|41-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100023120|53-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100045071|11-G/T 0.003426543 0.003405558 -6.162131e-03 -7.429138e-03 -2.526918e-05  
## 100073787|12-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100073808|38-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100082396|45-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100082676|61-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650780|18-C/T 0.011218569 0.011129021 -8.046347e-03 -9.780908e-03 -1.086768e-04  
## 6651956|47-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652018|68-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652299|52-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652898|20-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653146|40-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657342|25-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657451|13-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657720|20-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657882|21-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658021|6-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658104|7-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658212|12-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658246|8-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661212|11-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661231|65-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661373|56-C/G 0.008476689 0.008357226 -1.429461e-02 -1.734978e-02 -1.445815e-04  
## 6661472|51-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6662632|29-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6662644|9-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6662718|14-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6662788|5-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6663015|45-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6663056|27-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6663101|48-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6663942|12-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6663943|19-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6664030|20-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6664734|37-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6665050|6-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6665686|46-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100064830|15-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100073523|7-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100073850|23-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100074130|14-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100085916|27-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100085918|17-C/T 0.006709068 0.006673734 -5.294579e-03 -6.403190e-03 -4.268793e-05  
## 100093520|12-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100102104|19-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100104847|9-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100107045|42-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100111102|5-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100118833|7-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100118214|9-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661395|67-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661549|61-G/A 0.004930617 0.004906737 -4.866900e-03 -5.874937e-03 -2.879871e-05  
## 6664299|8-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661899|30-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100117994|5-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100118292|6-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100120255|8-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100122091|12-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658340|10-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6662816|5-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6662936|6-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6662936|8-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6662964|8-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6662966|17-G/A 0.016231962 0.016594216 2.183014e-02 2.651264e-02 4.418774e-04  
## 6664885|14-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661031|8-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100066612|18-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652306|13-T/C 0.020435083 0.020766958 1.598091e-02 1.951478e-02 4.065579e-04  
## 100085941|14-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018734|36-T/A 0.005301946 0.005223935 -1.493329e-02 -1.806943e-02 -9.411162e-05  
## 6661163|12-C/T 0.026650911 0.027021416 1.371151e-02 1.685810e-02 4.567790e-04  
## 100065635|32-C/T 0.034002011 0.036531199 6.923364e-02 8.483009e-02 3.141855e-03  
## 6661774|57-G/A 0.004980275 0.004915013 -1.327801e-02 -1.605600e-02 -7.870586e-05  
## 100082623|35-G/A 0.072131545 0.073168640 1.417404e-02 1.827928e-02 1.341261e-03  
## 100065110|61-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661113|35-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100118834|24-T/A 0.027206478 0.027726653 1.876083e-02 2.305612e-02 6.416677e-04  
## 100065734|46-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6663988|26-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661432|6-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661894|14-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100025027|41-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065037|22-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661398|17-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661689|5-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6664901|14-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661325|52-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100024800|55-T/C 0.004007657 0.003974821 -8.261048e-03 -9.969618e-03 -3.956198e-05  
## 6661569|21-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015330|20-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017807|41-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021430|18-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021922|61-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100024081|21-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100044596|39-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651341|31-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652981|11-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065893|67-C/T 0.005784340 0.005753329 -5.390202e-03 -6.512896e-03 -3.743044e-05  
## 100015238|36-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015491|32-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015884|7-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019050|23-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022813|55-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653072|57-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016062|38-A/G 0.024774061 0.025586337 3.174648e-02 3.881708e-02 9.994929e-04  
## 100017135|23-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021766|9-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022076|54-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661377|53-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015975|43-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016187|49-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100024150|52-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018712|5-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021390|26-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100045683|24-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661840|10-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016255|15-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020380|45-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021355|11-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021470|64-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100023138|54-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100023921|57-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650819|43-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653757|13-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015309|36-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015511|36-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015825|32-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016469|15-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019560|67-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021988|8-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022638|31-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022674|60-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100023456|47-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100023464|21-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100023506|63-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100121198|44-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6664022|46-T/C 0.010267296 0.009881151 -3.907896e-02 -4.775446e-02 -4.681810e-04  
## 100017302|21-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017884|42-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020887|11-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022100|32-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022978|31-G/T 0.018560977 0.019243367 3.546104e-02 4.305268e-02 8.343542e-04  
## 100064951|7-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100108048|25-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653000|22-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661699|44-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015643|21-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016494|59-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017300|12-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017465|6-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019558|59-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021942|23-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022249|52-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022694|55-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022788|12-C/T 0.005985355 0.005957877 -4.612086e-03 -5.572969e-03 -3.317243e-05  
## 100101046|61-C/A 0.003572500 0.003550499 -6.196525e-03 -7.471750e-03 -2.649557e-05  
## 6652314|37-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015332|7-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015389|56-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015557|20-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017329|58-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018963|60-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019082|25-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019182|47-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020256|17-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020398|8-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021013|48-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021289|8-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100023421|10-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653492|18-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661385|64-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661806|68-G/A 0.009014038 0.008812281 -2.289495e-02 -2.785137e-02 -2.443103e-04  
## 100017094|36-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017357|22-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018276|13-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018426|49-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018952|47-A/T 0.003163807 0.003147846 -5.070489e-03 -6.110095e-03 -1.921413e-05  
## 100021643|42-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022068|8-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022755|51-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100066666|24-G/A 0.004183499 0.004169472 -3.364276e-03 -4.056821e-03 -1.690342e-05  
## 6661519|31-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015745|7-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018424|55-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021037|43-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021847|31-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022744|13-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100023381|30-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100023472|27-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100023477|8-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100024933|20-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651050|34-T/C 0.003902411 0.003880376 -5.678509e-03 -6.848684e-03 -2.654529e-05  
## 6652421|32-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100082161|17-G/C 0.006332294 0.006199415 -2.143414e-02 -2.599632e-02 -1.604711e-04  
## 6661817|22-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6665065|47-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6666515|7-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015276|20-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016849|33-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018157|49-A/G 0.003227888 0.003208922 -5.910640e-03 -7.124158e-03 -2.283384e-05  
## 100018512|6-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019166|40-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019599|68-C/T 0.004642066 0.004631702 -2.237561e-03 -2.698803e-03 -1.249446e-05  
## 100020395|68-C/T 0.003227665 0.003208884 -5.852817e-03 -7.054380e-03 -2.261019e-05  
## 100020496|40-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022054|30-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022238|35-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022761|21-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100064714|31-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100082512|27-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6635566|26-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651319|63-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100101042|27-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015522|21-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015635|48-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016324|17-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017167|42-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017270|46-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018878|51-C/T 0.003357532 0.003337366 -6.042336e-03 -7.284033e-03 -2.428011e-05  
## 100019810|41-A/G 0.003421253 0.003404676 -4.868958e-03 -5.868522e-03 -1.996096e-05  
## 100020422|49-T/G 0.003360452 0.003337853 -6.770587e-03 -8.163153e-03 -2.721051e-05  
## 100021781|44-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022052|36-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022732|37-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100023771|42-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100064904|9-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100066133|22-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6635226|21-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661769|64-T/A 0.003166521 0.003148299 -5.787988e-03 -6.975724e-03 -2.193624e-05  
## 100015503|66-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015669|26-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016926|66-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017163|47-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017930|44-G/A 0.003650041 0.003627664 -6.168368e-03 -7.438335e-03 -2.695049e-05  
## 100018643|57-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019627|11-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019775|26-T/C 0.006536948 0.006233524 -4.867615e-02 -5.937375e-02 -3.665046e-04  
## 100020011|13-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020180|30-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020794|35-G/A 0.004544437 0.004511160 -7.376609e-03 -8.905480e-03 -4.011478e-05  
## 100022441|55-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065577|55-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100066375|31-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100101063|14-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6634311|8-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650564|10-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651449|21-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015590|56-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015813|59-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015865|6-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015966|35-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016299|67-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017046|59-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017306|20-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017681|59-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018541|45-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019001|52-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019248|51-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019357|10-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020167|8-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020584|49-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020830|34-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021518|64-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100023323|17-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065274|22-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100066055|6-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652294|28-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661350|27-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015979|10-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016232|12-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016804|11-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016918|64-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017355|38-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018239|64-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018653|43-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019075|38-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020739|29-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022196|19-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022506|24-C/G 0.003227057 0.003208783 -5.695078e-03 -6.864037e-03 -2.200012e-05  
## 100022716|15-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065001|58-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661682|7-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016459|9-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016800|17-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016857|32-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016901|25-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017304|40-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018018|24-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018056|56-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018188|36-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018521|14-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019406|13-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019617|68-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020206|45-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021877|23-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022598|56-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022715|29-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022769|37-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100023124|68-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100045390|32-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100064869|18-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100066159|27-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651348|40-T/G 0.004787521 0.004766174 -4.478908e-03 -5.405387e-03 -2.573994e-05  
## 6651910|25-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661267|31-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661407|12-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661471|46-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015328|40-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015329|5-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015695|23-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015994|62-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016280|42-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016310|50-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017976|8-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018090|15-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018376|15-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019811|9-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019879|32-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020836|42-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020897|56-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020918|25-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022084|40-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022253|28-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022347|11-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022822|20-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022863|16-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100064727|32-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100064762|17-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065060|19-C/T 0.007063296 0.006964253 -1.422157e-02 -1.723631e-02 -1.196966e-04  
## 100065198|28-C/T 0.011760426 0.011880706 1.012400e-02 1.226854e-02 1.460540e-04  
## 100065497|6-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100066169|37-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100066413|57-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100066518|25-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650606|12-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650782|37-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651161|26-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651343|64-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651987|65-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652583|9-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653986|35-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017405|46-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018360|48-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020046|11-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020184|33-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020356|17-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021172|11-C/T 0.009419919 0.009506494 9.106994e-03 1.101226e-02 1.048787e-04  
## 100021739|23-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022407|43-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022586|32-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100023347|40-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6630669|54-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651087|52-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653823|53-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661427|45-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6664050|11-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015339|30-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015780|53-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016477|49-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016846|6-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017534|5-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018524|64-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018715|45-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019637|34-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019730|38-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020004|34-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020093|64-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020177|61-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020736|62-T/C 0.007419780 0.007366438 -7.241284e-03 -8.767194e-03 -6.448946e-05  
## 100021876|36-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022251|18-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022479|48-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100023192|44-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065374|28-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065413|68-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065460|57-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065786|62-T/C 0.003231311 0.003209492 -6.798265e-03 -8.195508e-03 -2.626765e-05  
## 100065981|32-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100093548|6-T/C 0.008340043 0.008003764 -4.201516e-02 -5.127307e-02 -4.069291e-04  
## 6635925|28-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651303|15-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652226|61-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652595|25-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652880|30-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653288|5-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661743|26-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015258|11-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015334|11-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015520|48-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016206|60-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016803|55-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016999|24-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017691|42-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018254|14-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018691|53-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018832|49-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018836|30-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018972|63-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018993|58-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019968|28-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019971|65-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020134|53-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020237|19-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020353|50-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021532|8-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022232|46-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022564|55-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100064590|10-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100064752|47-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100066482|40-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100066499|21-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100082126|5-A/G 0.007314448 0.007257722 -7.815896e-03 -9.462976e-03 -6.857229e-05  
## 100082673|16-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100118390|28-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100118390|5-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650749|8-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650993|48-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651187|10-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652437|24-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652887|56-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653102|62-A/C 0.003164204 0.003147912 -5.175416e-03 -6.236669e-03 -1.961217e-05  
## 6653358|49-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661200|10-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661277|39-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661479|25-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6665776|10-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100116183|6-G/A 0.004570300 0.004515470 -1.214254e-02 -1.467359e-02 -6.609724e-05  
## 100065388|52-T/C 0.017261190 0.017496748 1.346295e-02 1.639516e-02 2.876344e-04  
## 100015585|60-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016513|5-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016711|48-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017104|21-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017773|59-C/T 0.006042206 0.005967352 -1.254396e-02 -1.518234e-02 -9.037109e-05  
## 100017895|25-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018069|40-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018279|30-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018386|10-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018698|26-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021026|29-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021644|9-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022215|30-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100023511|29-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065011|9-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065481|45-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065665|18-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100082041|35-T/G 0.003642955 0.003626483 -4.542184e-03 -5.475524e-03 -1.983886e-05  
## 100082540|39-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6635352|11-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651637|46-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652697|44-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652848|23-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661188|24-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661506|68-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661846|36-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100121512|16-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015223|24-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015336|36-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016018|57-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016257|18-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016363|39-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016533|62-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017334|62-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017905|42-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018782|32-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018840|12-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018918|28-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018973|26-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019583|32-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020635|19-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020952|67-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021607|12-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021759|51-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022391|27-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022668|57-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065738|47-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100066164|11-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100066550|5-T/C 0.012584847 0.012781235 1.536536e-02 1.861623e-02 2.386696e-04  
## 6633324|49-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6634529|30-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651763|8-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651994|28-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652616|33-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653336|20-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653857|60-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661332|57-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661613|21-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015558|12-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016614|13-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016893|9-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016974|14-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017016|14-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018076|32-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019206|6-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019217|46-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019384|38-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019646|24-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019874|10-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019964|12-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020293|37-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020842|17-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021693|26-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022050|68-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022979|40-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100023492|66-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100045668|41-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065160|26-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100066259|47-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6630074|25-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651026|5-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651431|37-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651540|51-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651708|27-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652397|25-T/C 0.004546715 0.004511540 -7.796848e-03 -9.413632e-03 -4.240375e-05  
## 6653258|20-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661295|56-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016658|9-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016823|19-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017190|25-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017629|18-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018573|66-T/A 0.004179089 0.004168737 -2.483250e-03 -2.993893e-03 -1.247455e-05  
## 100019552|33-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021046|26-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022548|38-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065206|29-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065846|12-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651279|28-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652199|28-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652400|17-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652445|11-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653155|9-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653256|29-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661317|35-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6663970|38-G/C 0.004109216 0.004072403 -9.039628e-03 -1.091204e-02 -4.435789e-05  
## 6665305|7-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015212|40-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015773|62-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016229|66-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017966|44-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018540|41-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019145|8-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020607|26-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021569|14-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100023034|23-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100023386|11-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065690|24-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650623|27-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650909|20-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651336|17-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651419|53-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652696|7-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652736|50-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653280|14-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653295|57-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653940|33-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661206|18-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661327|42-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6664003|47-C/T 0.006990151 0.006952062 -5.478827e-03 -6.628136e-03 -4.602873e-05  
## 100015464|37-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015704|41-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016862|45-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019871|11-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020987|40-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021296|8-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065560|20-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100066263|36-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100066672|61-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100082462|27-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6632122|60-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650958|39-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651020|25-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651285|11-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651625|35-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651661|21-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651716|31-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651796|30-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651885|10-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652069|22-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652117|17-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652234|42-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653188|36-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653368|52-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661580|47-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661803|14-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661812|53-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661866|32-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015736|43-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016141|36-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017142|64-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019476|8-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022055|56-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022078|12-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022886|24-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6631211|9-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651047|34-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651407|46-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651481|28-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652585|52-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653252|68-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653882|52-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653901|21-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6654029|48-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015720|28-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016789|20-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016796|38-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017412|8-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017613|42-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017642|45-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017690|28-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018660|67-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020040|40-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021191|5-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100023009|12-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065757|7-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100066245|18-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100074042|5-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100082359|43-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6635615|63-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650495|22-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650509|12-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651034|16-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651369|18-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651472|63-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651525|65-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651657|19-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651750|54-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652293|6-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652474|14-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653662|55-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661543|6-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017915|15-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020329|6-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021269|67-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021647|7-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065434|44-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100091128|19-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6630649|30-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6631485|63-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6634232|23-C/T 0.009435649 0.009414466 -2.250045e-03 -2.727000e-03 -2.566170e-05  
## 6650379|29-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650507|19-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650854|20-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651417|34-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651649|55-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651797|46-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652137|50-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652171|14-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652353|59-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652439|17-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652481|49-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652592|44-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652631|8-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
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## 6653033|21-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653086|60-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653403|58-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653441|17-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653651|15-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653652|24-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653717|62-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653911|22-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657418|43-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658319|40-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661213|21-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661527|23-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6664003|60-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017332|29-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018422|17-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019803|28-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020227|22-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021230|36-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100045732|32-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065400|55-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065695|10-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650641|39-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650730|37-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651079|5-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651096|56-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651302|27-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651575|42-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651609|46-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651712|16-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651755|6-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651927|7-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652423|26-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653022|23-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653024|17-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653143|11-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653233|66-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653287|46-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653308|9-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653555|27-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653600|5-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653915|45-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653995|60-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657836|14-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661227|16-C/A 0.009157170 0.009242244 9.204911e-03 1.112749e-02 1.030323e-04  
## 6661262|58-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661434|38-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661641|45-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661702|15-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6662581|37-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100114018|47-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016369|9-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017864|12-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018488|65-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018874|30-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022833|43-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100045516|20-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065233|14-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065518|13-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065693|58-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100066101|12-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6633196|52-G/C 0.003290544 0.003271736 -5.748888e-03 -6.929408e-03 -2.264512e-05  
## 6633443|50-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650488|44-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650661|48-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650800|48-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650825|39-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650845|36-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650876|20-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651093|21-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651267|9-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651306|19-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651379|44-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651554|67-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651736|43-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651932|30-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651941|51-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652116|48-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652661|48-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652756|60-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652829|67-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653016|28-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653035|59-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653400|19-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653480|48-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653764|58-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6654093|42-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661397|22-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6663931|67-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6663957|68-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6663967|43-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6665630|56-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017995|7-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020113|15-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022566|30-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100044990|7-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065049|7-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100066339|40-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100082461|32-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6632579|11-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650828|56-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650907|12-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650924|57-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651078|6-G/A 0.004570300 0.004515470 -1.214254e-02 -1.467359e-02 -6.609724e-05  
## 6651186|45-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651357|21-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651533|11-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651835|18-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651845|5-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652615|62-G/A 0.004080522 0.004067621 -3.171569e-03 -3.823902e-03 -1.554432e-05  
## 6652654|38-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652959|31-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652967|19-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653003|36-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653135|53-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653227|62-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653345|29-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653424|16-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653449|26-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653581|57-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653676|29-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653712|15-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653723|10-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653956|18-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6654001|23-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658504|15-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658614|43-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661202|35-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661234|44-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661397|27-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661731|51-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661793|54-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6663947|19-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6664041|32-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6664042|66-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6664043|13-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017392|44-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020618|50-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022663|33-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6630289|20-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650619|36-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650638|22-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650699|38-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650728|58-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650755|23-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650783|14-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650849|14-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650880|67-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651095|41-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651245|18-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651292|26-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651352|20-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651467|62-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651557|42-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651631|26-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651664|24-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651688|48-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651718|35-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651795|51-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651923|42-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651965|39-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652219|19-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652378|63-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652434|66-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652655|53-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652722|31-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652830|22-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652882|43-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653040|42-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653271|6-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653385|63-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653386|12-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653418|27-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653450|16-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653476|17-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653520|26-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653763|12-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653916|15-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6654026|50-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6654061|33-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657577|47-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657800|39-C/A 0.007326937 0.007259804 -9.247344e-03 -1.119943e-02 -8.115530e-05  
## 6658145|22-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658508|25-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661100|58-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661185|17-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661209|14-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661230|12-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661236|16-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661314|22-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661446|29-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661535|11-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661559|28-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661597|46-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661642|45-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661657|60-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661731|68-A/G 0.009157593 0.009242315 9.166732e-03 1.108143e-02 1.026058e-04  
## 6661796|25-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6662683|15-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6664747|36-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6665469|54-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6665629|23-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100023210|29-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065681|26-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100114697|13-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6630523|63-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650409|45-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650528|28-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650721|49-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651065|27-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651098|23-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651125|47-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651426|10-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651605|61-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651634|10-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651759|12-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651815|20-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652098|62-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652125|13-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652182|12-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652205|23-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652340|36-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652361|22-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652367|17-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652519|22-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652681|7-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652787|16-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653095|8-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653128|9-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653131|30-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653340|41-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653516|66-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653855|60-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6654020|41-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6654087|18-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657400|14-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658359|12-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661176|55-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661182|18-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661371|21-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661403|66-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065611|31-A/C 0.041262677 0.044434055 7.137268e-02 8.807611e-02 3.969443e-03  
## 6661497|12-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661654|59-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6662907|21-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6663946|23-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6665056|53-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6665628|28-C/A 0.010310127 0.010398910 8.537706e-03 1.033433e-02 1.076493e-04  
## 100019769|39-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100082375|66-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100082404|55-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650592|12-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651184|37-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652576|37-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652672|55-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653304|23-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6656915|10-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657307|34-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657558|38-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658381|25-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658521|6-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661752|23-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6664327|23-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100044751|5-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100085984|13-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100115531|5-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6643578|12-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100106109|11-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100113138|5-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100117994|11-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6662821|6-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6664383|8-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6665284|5-C/G 0.003049140 0.003033443 -5.174936e-03 -6.235370e-03 -1.889506e-05  
## 6665328|8-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6665629|20-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100118214|11-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6663102|10-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021042|56-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100090841|7-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100103683|13-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100103683|6-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100106227|13-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100106247|9-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100111488|6-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100112338|6-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100114623|5-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6644428|5-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6647555|5-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6648501|8-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6648560|7-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658337|6-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6664325|9-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6664355|7-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6664406|5-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6664885|10-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6665134|5-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6665147|13-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065344|49-T/C 0.016270191 0.016337113 4.096269e-03 4.992731e-03 8.163364e-05  
## 6661457|44-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661867|13-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661122|26-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100064630|57-A/G 0.005618058 0.005565973 -9.357775e-03 -1.131395e-02 -6.285527e-05  
## 100025554|68-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658677|32-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6635413|16-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661764|43-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652801|27-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100024646|8-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100066569|63-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652374|43-T/C 0.003508815 0.003478321 -8.766781e-03 -1.057572e-02 -3.672126e-05  
## 6661449|54-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661688|9-G/T 0.015700724 0.015716007 9.724614e-04 1.185337e-03 1.863239e-05  
## 6661583|7-C/T 0.003652138 0.003628013 -6.649588e-03 -8.019420e-03 -2.905587e-05  
## 6661219|45-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016118|67-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065968|17-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6664008|7-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019909|40-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100024919|19-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021772|52-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100066372|27-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100091350|43-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017975|34-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100045781|34-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652884|53-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017252|27-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017894|53-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022254|26-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6632275|61-T/C 0.004652748 0.004633483 -4.157801e-03 -5.016856e-03 -2.322619e-05  
## 100065115|49-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065825|30-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6654008|51-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653230|18-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020850|15-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100024608|28-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065720|36-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019004|19-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022949|21-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100024718|58-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065076|9-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650868|53-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017101|27-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017766|10-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019793|62-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021136|57-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021706|33-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100025017|58-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652036|20-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015261|30-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015698|55-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016039|28-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021704|31-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021798|6-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022137|6-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022883|14-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100023375|24-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100064876|34-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022317|10-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065186|8-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653805|57-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021710|10-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100023305|24-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6634600|17-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650598|62-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017818|14-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020277|67-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020322|14-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021252|30-G/A 0.003496923 0.003476339 -5.921228e-03 -7.138862e-03 -2.478771e-05  
## 100022007|39-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022967|55-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100023231|52-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100024979|12-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651448|5-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661619|36-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100101013|46-C/T 0.008937015 0.008997010 6.668303e-03 8.063368e-03 7.264296e-05  
## 100015916|40-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019381|29-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021309|54-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022531|25-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022877|17-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100023365|32-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100023869|51-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100066103|5-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100066389|65-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652703|57-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019288|33-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020549|44-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020551|60-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100023117|6-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100023343|62-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065070|10-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100119322|60-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653215|23-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015905|30-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018538|19-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020139|46-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020548|9-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065378|43-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065666|20-A/T 0.003354460 0.003336854 -5.276028e-03 -6.359254e-03 -2.119751e-05  
## 100065687|58-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651010|63-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651023|13-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651465|19-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653507|50-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661164|56-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015555|49-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017215|20-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018040|51-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018557|8-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019185|63-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019688|44-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100023075|63-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6630180|30-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015432|27-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017493|63-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020399|26-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020528|67-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021151|33-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021753|16-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021795|51-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100062072|14-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100066634|26-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661693|17-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015331|61-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015609|28-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017169|13-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017928|37-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019505|12-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020075|44-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020413|29-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021373|46-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021417|26-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022461|56-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022969|9-G/A 0.004179778 0.004168852 -2.620970e-03 -3.160022e-03 -1.316676e-05  
## 100023275|19-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100082212|44-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652622|54-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653084|57-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653710|21-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653840|32-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021632|19-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022984|17-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100064905|26-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015960|29-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016761|32-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017811|61-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019007|29-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020970|16-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065097|13-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651396|51-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651430|31-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015246|12-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017606|48-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018953|27-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019018|13-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020129|19-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020404|28-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020733|17-G/A 0.007762289 0.007753663 -1.112438e-03 -1.345668e-03 -1.043154e-05  
## 100021724|12-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100066663|43-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100122660|5-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6630550|32-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652105|37-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015837|30-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016214|35-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017908|21-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019267|32-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100023141|5-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100023174|41-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100064755|8-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651656|34-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651767|59-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6664728|67-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018065|63-T/A 0.006016225 0.005963022 -8.922174e-03 -1.079067e-02 -6.423016e-05  
## 100019510|9-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019632|22-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019754|7-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020251|60-G/A 0.003353855 0.003336754 -5.125141e-03 -6.177197e-03 -2.059066e-05  
## 100021712|18-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100044571|14-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661691|15-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6663917|15-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018085|21-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019876|24-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020554|42-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022262|60-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100023321|57-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065480|65-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652163|42-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661278|34-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661299|21-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016113|5-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018753|18-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022995|26-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100045005|36-T/A 0.005649424 0.005571200 -1.404080e-02 -1.699240e-02 -9.440225e-05  
## 100065425|18-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065813|42-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100066450|34-C/G 0.007209780 0.007240277 4.212153e-03 5.087005e-03 3.686235e-05  
## 6652607|6-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653544|67-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661463|59-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661534|24-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020053|13-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020534|56-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020747|66-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022664|19-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100023314|12-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100024345|29-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065655|8-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100082306|16-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6632614|14-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650544|61-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661521|5-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661754|5-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017623|23-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019111|65-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020626|26-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022838|5-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661655|44-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015424|32-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017638|47-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019862|5-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100064626|46-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100066576|33-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100082421|35-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100082421|56-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661595|45-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018565|14-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019547|16-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021316|68-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100066021|13-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100066577|66-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6635995|53-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650794|31-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651294|52-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661643|39-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6665642|53-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017091|53-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018288|5-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019411|13-C/T 0.003731552 0.003708345 -6.258080e-03 -7.547271e-03 -2.795285e-05  
## 100022970|53-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100044935|38-C/G 0.009142581 0.009239813 1.052318e-02 1.271756e-02 1.177552e-04  
## 100065133|26-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065604|17-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653270|12-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100082437|5-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017079|68-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018306|21-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065207|61-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651674|58-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661762|25-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016541|14-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019240|64-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022760|39-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661631|14-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015984|25-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020169|39-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020171|37-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020514|46-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100093365|13-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6631375|67-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651160|63-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651417|40-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653272|47-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661637|58-G/T 0.015636468 0.015833591 1.244967e-02 1.513922e-02 2.403051e-04  
## 6661875|62-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016327|11-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017411|17-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021938|40-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100104022|29-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653086|61-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6654063|52-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661270|57-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661413|37-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661571|64-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6662928|6-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6665563|11-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015347|8-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015697|17-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6630379|34-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651111|37-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651135|63-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652080|40-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653891|42-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661255|43-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661262|56-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661441|11-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019678|23-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065386|6-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100082362|41-C/G 0.006273472 0.006286669 2.099137e-03 2.533803e-03 1.593587e-05  
## 100119892|9-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650706|34-C/G 0.003644944 0.003626814 -4.998887e-03 -6.026635e-03 -2.183563e-05  
## 6651084|9-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652828|42-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653640|66-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661213|29-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661501|61-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020312|34-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100066078|57-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651216|56-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651663|16-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652291|30-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661623|16-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6664064|11-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019069|65-C/T 0.004546814 0.004511556 -7.815104e-03 -9.435709e-03 -4.250319e-05  
## 6629913|31-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650658|32-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651643|7-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651651|36-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652652|32-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652781|24-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652781|64-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652958|54-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661185|61-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661218|12-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661232|58-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6662683|28-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6662714|21-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6663024|21-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016570|44-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017965|14-G/A 0.004649209 0.004632893 -3.521761e-03 -4.248846e-03 -1.967058e-05  
## 100018649|23-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021210|28-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100044629|5-T/A 0.007604437 0.007580537 -3.152708e-03 -3.814645e-03 -2.889882e-05  
## 100065997|37-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100066075|25-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100119599|31-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6633592|39-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650534|49-T/C 0.008114469 0.008127479 1.600810e-03 1.936067e-03 1.574038e-05  
## 6650535|67-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651337|9-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653918|11-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657564|24-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661126|11-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661428|5-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661666|46-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661783|8-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661798|20-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661798|28-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661836|10-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661836|20-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661863|56-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6662849|35-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6665679|46-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100093359|29-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6629858|37-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6643954|6-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652019|59-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652746|56-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652810|45-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653160|44-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653239|27-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653352|54-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653632|19-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6662822|7-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6664724|62-G/C 0.006152420 0.006169436 2.758111e-03 3.328386e-03 2.054559e-05  
## 100044710|9-T/G 0.003982626 0.003970649 -3.016291e-03 -3.636216e-03 -1.442943e-05  
## 100093660|28-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6633718|59-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6641748|42-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658299|7-T/C 0.005596616 0.005562399 -6.151465e-03 -7.432448e-03 -4.129138e-05  
## 6661450|36-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6643586|10-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6643586|9-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6648203|14-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6664350|5-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100106226|9-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100111464|9-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6643578|11-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6664414|23-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6664432|8-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6643814|11-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6643814|5-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100100648|8-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100103657|7-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100106110|9-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100106239|8-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100109437|5-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100109437|9-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100110529|5-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100111487|5-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100122090|8-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6649192|5-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657874|5-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658144|18-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6662919|11-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6663018|25-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6664273|5-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6664306|8-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6664893|38-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6664910|11-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6665153|7-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100082484|50-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100118470|9-C/T 0.068116064 0.072250113 5.721859e-02 7.284753e-02 5.323473e-03  
## 6664010|54-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100046106|24-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6666102|8-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657032|15-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6665215|57-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018359|44-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100023139|68-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6664085|47-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661211|58-C/T 0.026544839 0.026820468 1.027682e-02 1.264248e-02 3.397742e-04  
## 100066559|31-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6663985|50-C/T 0.004200338 0.004172279 -6.725143e-03 -8.115127e-03 -3.381303e-05  
## 6665628|45-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100097039|23-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6665040|44-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100093411|9-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100093413|26-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6634480|31-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065820|27-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065626|5-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017456|5-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065031|12-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100090339|7-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6654096|11-C/A 0.004927159 0.004906161 -4.280102e-03 -5.165977e-03 -2.532342e-05  
## 100045278|30-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650722|8-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100023932|52-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661186|27-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100066349|48-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6664781|12-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018124|53-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100064999|21-G/A 0.013775972 0.013870069 6.784182e-03 8.243551e-03 1.144938e-04  
## 100074314|17-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661474|58-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6664089|39-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100074315|18-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100109510|37-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100106299|29-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652532|17-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6666146|37-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020687|19-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017102|43-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016103|11-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016936|24-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065009|15-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021792|22-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065064|48-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651486|23-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022395|5-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6635620|7-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021158|56-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100024001|29-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065225|30-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065766|32-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065871|7-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657554|17-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021381|48-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065073|30-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065186|6-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100082387|67-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022890|66-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100023224|41-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100066151|44-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065712|39-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016548|22-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018316|52-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018669|51-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020096|10-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021832|59-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100045940|24-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100066650|24-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100045116|6-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100112452|57-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653883|52-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021186|32-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021930|67-G/A 0.004549418 0.004511990 -8.295177e-03 -1.001632e-02 -4.511857e-05  
## 100065300|66-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100082101|62-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100119315|9-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650840|6-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6664036|6-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015791|35-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021993|35-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065071|26-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100106305|20-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020586|49-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022366|24-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022982|18-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100102365|9-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016200|62-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017620|16-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018736|57-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020340|6-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100066082|8-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6663098|31-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018726|57-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019037|42-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021366|54-C/T 0.006483821 0.006422517 -9.545175e-03 -1.155101e-02 -7.404495e-05  
## 100022220|45-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100066146|14-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100066266|57-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100066574|19-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016560|7-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100066037|49-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100121195|35-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018616|49-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100066663|58-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100118142|5-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6665806|57-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018844|30-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100091301|63-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100096922|11-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651543|26-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016510|41-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100018353|22-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019853|68-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021078|39-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021925|13-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065479|51-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100066412|14-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100091301|22-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019195|66-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100023208|34-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065057|21-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065426|35-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100073631|7-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016006|34-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017176|29-G/A 0.005568708 0.005557748 -1.972148e-03 -2.380769e-03 -1.322650e-05  
## 100018612|5-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020218|34-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065408|22-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065476|64-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065761|7-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6632042|19-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100015587|20-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016037|24-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021787|68-A/C 0.003109185 0.003090214 -6.138985e-03 -7.398842e-03 -2.283593e-05  
## 100022942|14-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100066550|58-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100082539|7-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650594|30-T/G 0.003105078 0.003089530 -5.032768e-03 -6.064237e-03 -1.871678e-05  
## 6653546|21-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6664281|14-A/T 0.003105800 0.003089650 -5.227272e-03 -6.298854e-03 -1.944091e-05  
## 100016076|49-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022081|49-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100022274|36-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100116482|57-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100121512|34-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017777|61-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100064625|41-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100064874|12-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100106306|45-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100106306|65-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021587|57-C/T 0.007700932 0.007596620 -1.373138e-02 -1.665126e-02 -1.261459e-04  
## 100065160|65-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100073403|34-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100082633|51-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100097045|48-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652651|47-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661761|37-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017728|53-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065286|5-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100082197|10-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6633952|10-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657904|18-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065579|38-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661858|20-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019471|14-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100044832|16-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065848|33-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100066117|37-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100112452|34-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6630404|40-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100103994|35-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100017343|6-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100064738|40-C/G 0.003163582 0.003147809 -5.010929e-03 -6.038250e-03 -1.898821e-05  
## 100064746|17-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100074010|27-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6631936|55-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661620|58-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016884|51-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065351|47-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6631698|7-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652538|34-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657259|24-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016745|16-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065233|43-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6630611|19-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652270|62-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652729|29-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020530|29-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6630408|13-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6630626|34-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6631766|58-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6633539|7-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6634322|14-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652458|12-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653006|66-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653115|48-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6663957|45-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100066473|39-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650554|32-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657465|23-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6663949|9-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100020033|33-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100082315|13-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6629848|65-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6630880|24-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650849|38-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650881|15-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651487|20-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651826|47-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652855|33-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657563|28-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657811|15-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658667|25-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6662907|9-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6665143|45-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100021831|19-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100045184|5-G/C 0.004423417 0.004392207 -7.105877e-03 -8.577129e-03 -3.761899e-05  
## 100065651|20-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100066434|64-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100066660|33-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6633749|29-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6635481|20-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650535|47-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652320|27-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652796|29-G/C 0.003168163 0.003148572 -6.222027e-03 -7.499495e-03 -2.358332e-05  
## 6654065|42-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657294|51-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658085|11-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661346|29-T/A 0.003422965 0.003404961 -5.287603e-03 -6.373658e-03 -2.167911e-05  
## 6661679|17-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6662799|12-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6662831|22-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6663021|23-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100085932|36-G/C 0.003361914 0.003338097 -7.135033e-03 -8.603198e-03 -2.867733e-05  
## 6630269|58-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6630995|13-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6633153|34-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6644233|38-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650943|57-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650961|27-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651177|55-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651864|18-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652465|10-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652776|7-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6654017|47-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657683|10-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657925|11-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658404|12-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6664915|43-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100045721|8-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100082404|10-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100093333|22-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6633054|40-T/A 0.004515205 0.004506288 -1.978894e-03 -2.386388e-03 -1.074950e-05  
## 6642765|20-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6643196|21-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653359|24-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658471|31-G/C 0.003049140 0.003033443 -5.174936e-03 -6.235370e-03 -1.889506e-05  
## 100065416|12-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661414|26-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6664306|12-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6665409|5-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6642901|10-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100108705|8-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6665151|5-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100122090|6-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6662690|20-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016003|7-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100016649|43-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100019431|29-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100023959|16-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100024997|62-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100044851|16-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100064658|7-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100064682|49-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100064707|51-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100064714|52-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100064753|29-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100064840|30-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065000|48-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065025|5-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065087|14-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065157|40-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065238|55-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065368|11-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065400|61-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065428|33-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065497|38-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065538|49-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065597|12-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065605|63-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065647|9-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065669|36-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065706|45-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065736|5-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065739|9-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065933|35-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100066025|19-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100066134|25-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100066259|18-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100066274|66-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100066332|57-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100066410|32-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100066624|60-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100082151|41-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100082232|23-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100082297|57-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100082311|43-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100082409|16-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100082418|7-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100082564|6-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100082633|21-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100086276|23-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100086585|5-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100091075|52-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100091130|54-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100093549|30-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100098502|34-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100101042|48-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100121195|12-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100121196|29-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100121197|43-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100121199|47-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100121200|51-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100122496|35-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6630263|32-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6630513|10-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6631038|8-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6631621|56-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6633643|35-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6634127|43-A/G 0.015117763 0.015145890 1.857054e-03 2.261832e-03 3.427018e-05  
## 6635254|35-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6641856|17-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6642355|17-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650389|35-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650444|8-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650519|63-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650553|61-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650587|17-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650591|24-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650676|68-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650899|7-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650902|63-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6650919|10-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651039|12-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651054|54-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651207|33-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651431|65-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651512|39-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651635|32-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065262|63-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651763|26-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651874|8-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6651879|12-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652022|6-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065511|46-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652174|20-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652193|50-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652287|47-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652538|35-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652743|25-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100065924|8-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6652898|57-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653034|66-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653037|45-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653161|37-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653161|51-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653240|43-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653383|7-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653394|26-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653420|30-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653514|60-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653521|20-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653525|7-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653571|21-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653574|48-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653793|20-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653861|28-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6653990|38-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6654094|56-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6654108|11-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6657811|16-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658021|8-T/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658173|44-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658487|25-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6658616|17-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661180|50-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661214|14-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661229|60-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661236|33-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661487|18-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661524|9-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661550|30-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100082471|28-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661631|29-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100082491|60-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661651|25-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100082562|68-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661778|27-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661827|57-C/G 0.007555423 0.007572369 2.237775e-03 2.704563e-03 2.048912e-05  
## 6661838|61-A/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6661845|30-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6662631|42-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6662646|5-A/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6662657|27-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6662765|9-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6662767|43-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6662797|33-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6663018|35-C/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6663941|10-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6663953|25-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6663990|56-G/T 0.008117704 0.008128018 1.269037e-03 1.534918e-03 1.247900e-05  
## 6664007|22-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6664018|43-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100091330|60-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6664739|19-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6665051|50-C/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6665130|20-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6665130|26-T/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6665131|16-G/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 100109477|22-G/A 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6665563|54-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6665566|58-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6665567|59-A/G 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6665600|6-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6665637|6-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6665638|50-G/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6665992|26-C/T 0.000000000 0.000000000 NaN NaN 0.000000e+00  
## 6666146|48-T/C 0.000000000 0.000000000 NaN NaN 0.000000e+00  
##   
## $global  
## Hs Ht Gst\_est Gprime\_st D\_het D\_mean   
## 0.0334095095 0.0337786260 0.0109275164 0.0135366773 0.0004582497 NA

pairwise\_Gst\_Hedrick(gi, linearized = FALSE)

## Bullen Range Kambah Pool Lanyon Murramore Nerreman  
## Kambah Pool 0.0170039267   
## Lanyon 0.0215351522 0.0254476655   
## Murramore 0.0097138889 0.0222876343 -0.0061221781   
## Nerreman 0.0043467943 0.0127127101 0.0158470560 0.0057630683   
## Tharwa Sandwash 0.0220704982 0.0263026441 0.0064427734 0.0008349941 0.0189271318



# Hardy Weinberg and Genotypic Disequilibrium

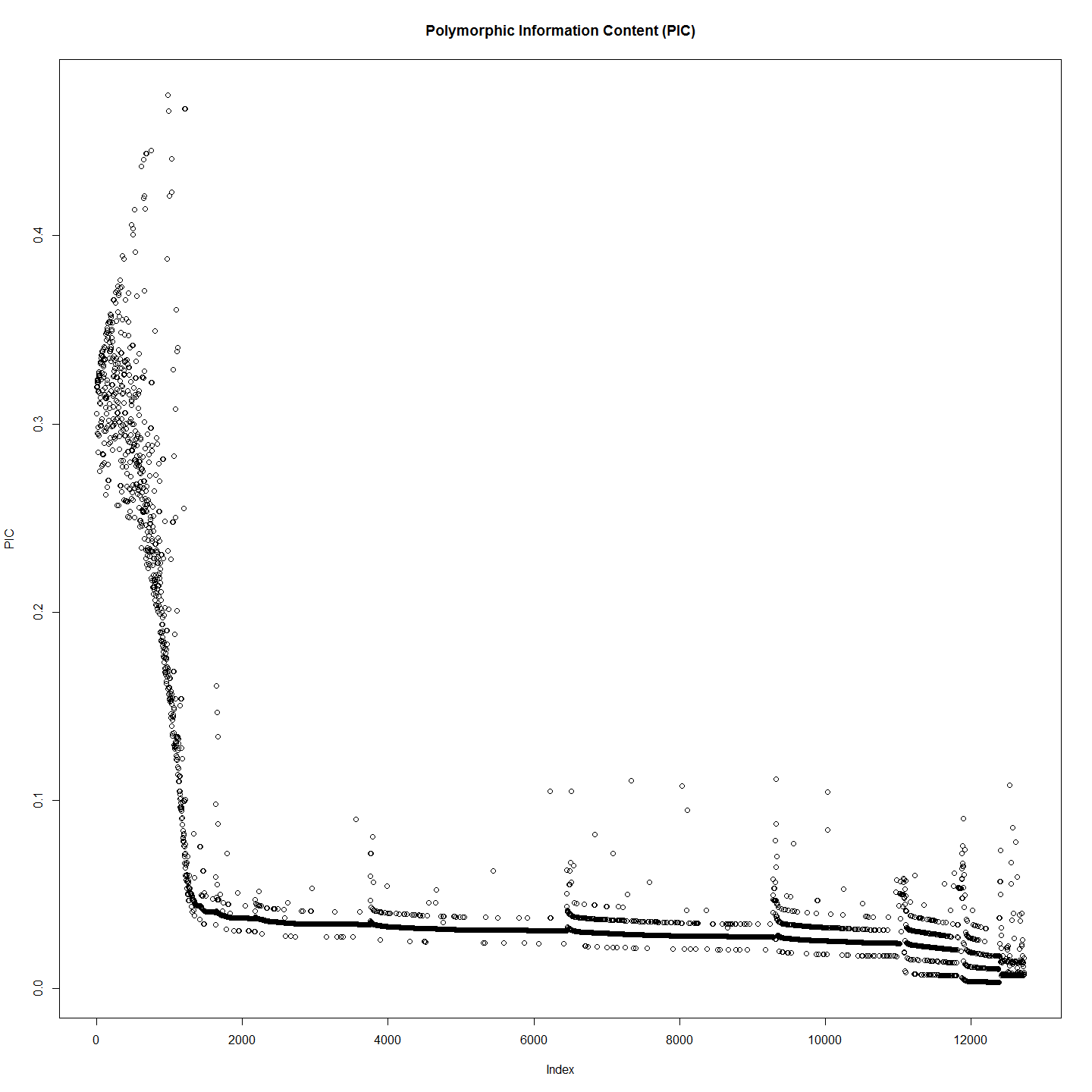
hwdf<-hw.test(gi, B=0)

# Population Structure

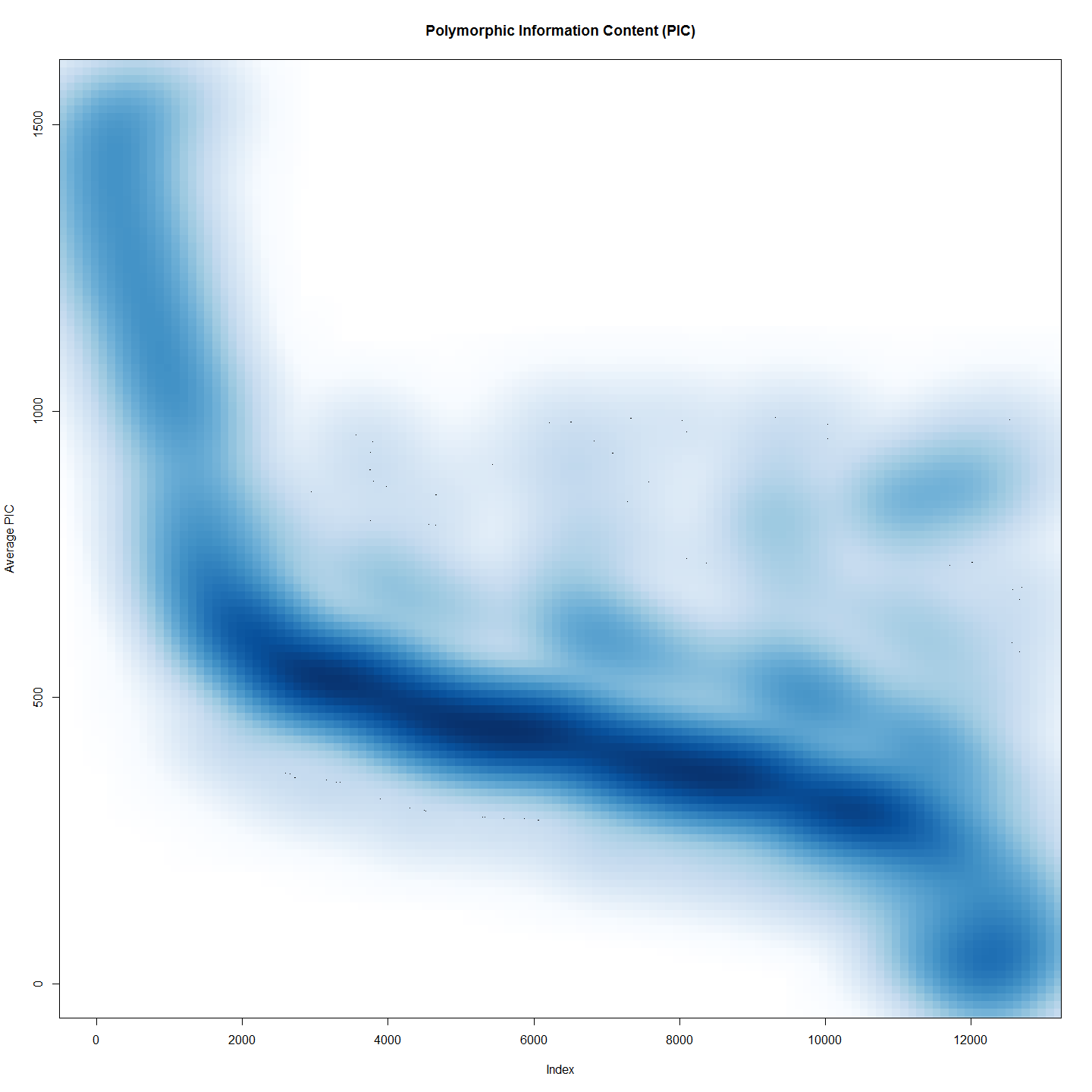
See: runPCAandTSNEYearsandSites.Rmd

# Polymorphic Information Content

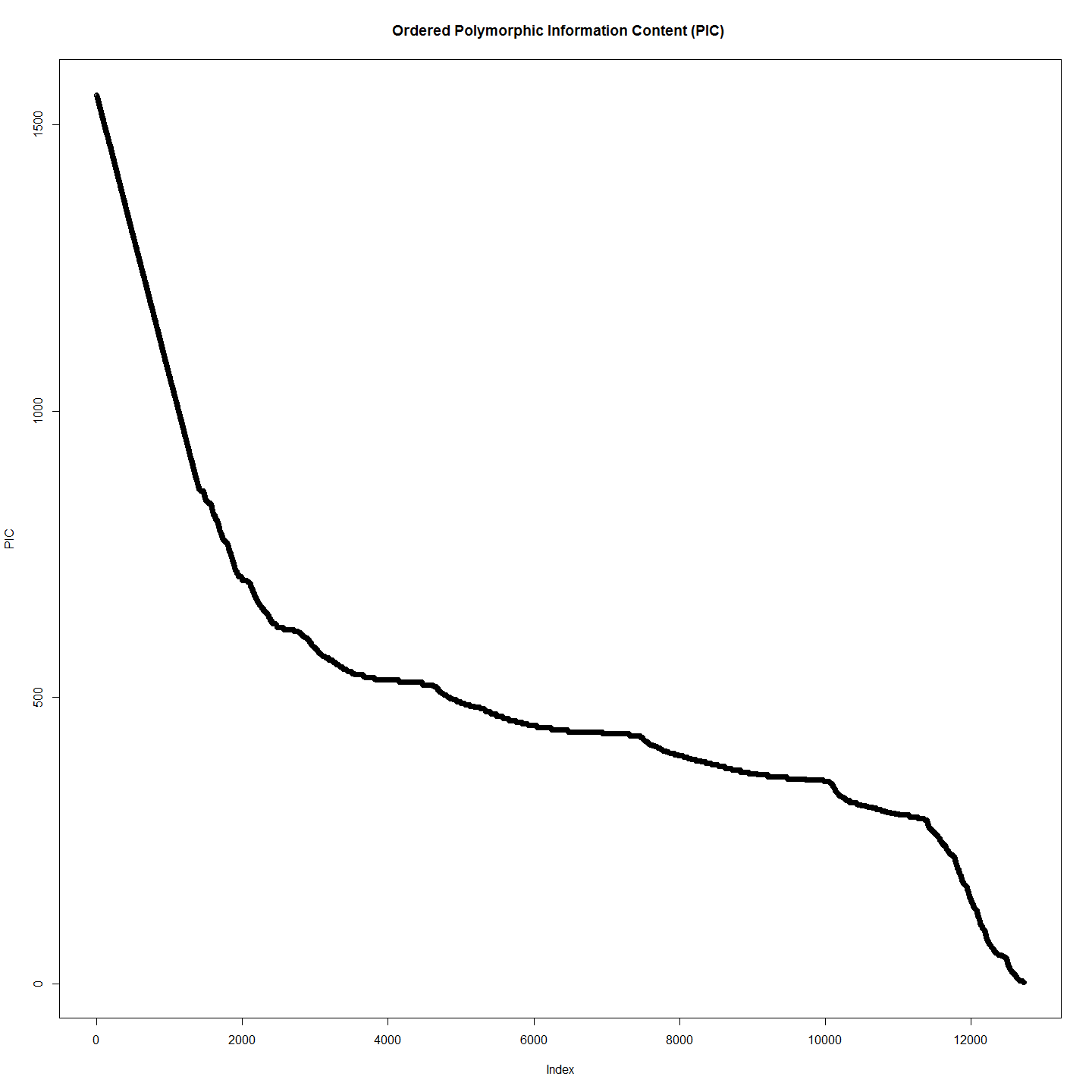
#A script to plot all M. peelii snps average PIC (PIC of reference and PIC of alternate state allele) against index number of the data frame. This shows that using the first X number of snps is using the alleles with the highest PIC.  
  
  
df<-allPeeliSnps; main<-"All Peelii snps"  
df<-df[-c(1:4),]  
  
pic<-df[2:nrow(df),14] #check pic in order  
plot(as.character(pic),main="Polymorphic Information Content (PIC)", ylab="PIC")# to show PIC is in order (ish) ideally cut off would be 1300 or so.



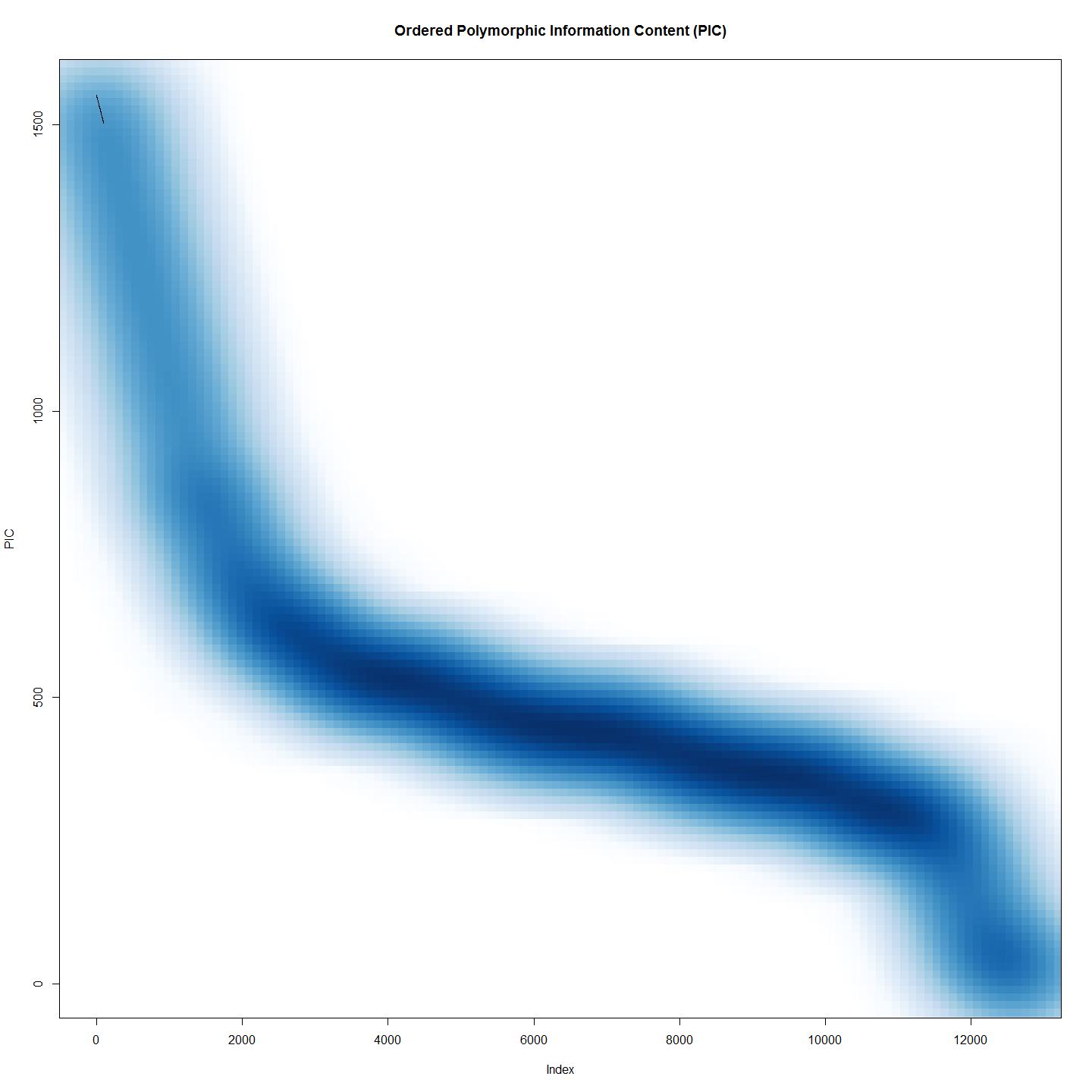
smoothScatter(pic,main="Polymorphic Information Content (PIC)", ylab="Average PIC")



# Place in strict order of PIC and have alook  
pico<-data.frame(pic)  
rownames(pico) <- NULL  
colnames(pico)[1]<-"PIC"  
  
pico <- data.frame(pico[order(as.numeric(pico$PIC),decreasing = TRUE),])  
  
pico[,2]<-pico[,1] #Order columns to facilitate plotting.  
pico[,1]<-row.names(pico) #Replace name with index number  
colnames(pico)[1]<-"Index"  
colnames(pico)[2]<-"PIC"  
  
plot(pico, main="Ordered Polymorphic Information Content (PIC) ")



smoothScatter(pico, main="Ordered Polymorphic Information Content (PIC)")



rm(pic)  
rm(pico)

## Genome Structure in Larvae by Years and Sites

### FST and Sites

library(StAMPP)  
system.time(snpfst <-stamppFst(gl,nboots=1, percent=95, nclusters=8))

## user system elapsed   
## 32.90 0.03 35.41

snpfst

## Kambah Pool Bullen Range Nerreman Tharwa Sandwash Lanyon Murramore  
## Kambah Pool NA NA NA NA NA NA  
## Bullen Range 0.01524984 NA NA NA NA NA  
## Nerreman 0.01241047 0.007348972 NA NA NA NA  
## Tharwa Sandwash 0.02727594 0.026001892 0.02273005 NA NA NA  
## Lanyon 0.02823645 0.029941074 0.02402186 0.012530020 NA NA  
## Murramore 0.02516960 0.020465393 0.01636588 0.008125193 0.004919345 NA

rm(snpfst)

Although not strong some difference in the three upper sites and the three lower sites is evident. The difference between the 3 upper and three lower sites also is greater than the difference among each of the three lower, or the three upper sites.

### Temporal Structure

glt<-gl  
glt@pop<-as.factor(gl@other$covariates)  
system.time(snpfstTemporal <-stamppFst(glt,nboots=1, percent=95, nclusters=8))

## user system elapsed   
## 16.36 0.05 18.60

snpfstTemporal

## 2013 2011 2012  
## 2013 NA NA NA  
## 2011 0.014914747 NA NA  
## 2012 0.005010593 0.01111121 NA

rm(glt); rm(npfstTemporal)

There is little difference between years.

## Genetic Distance between Sites

gi<-df2genind(data.frame(gl),ncode=1, pop=gl$pop)  
gp<-genind2genpop(gi)

##   
## Converting data from a genind to a genpop object...   
##   
## ...done.

dist.genpop(gp)

## Bullen Range Kambah Pool Lanyon Murramore Nerreman  
## Kambah Pool 0.003084083   
## Lanyon 0.004076401 0.004261646   
## Murramore 0.003632366 0.005372541 0.003149246   
## Nerreman 0.001670094 0.002379941 0.003443184 0.003267281   
## Tharwa Sandwash 0.002998878 0.003526237 0.002719802 0.002499254 0.002531829

#or Isolation by Distance (site)  
library(ade4)  
Dgen <- dist.genpop(gp, method = 2)  
Dgeo2<-select(larv, SiteName, Distance.to.Angle.Crossing..m.)  
Dgeo2<-unique(Dgeo2)  
rownames(Dgeo2)<-Dgeo2[,1]  
Dgeo2[,1]<-NULL  
Dgeo2<-dist(Dgeo2)  
ibd <- mantel.randtest(Dgen, Dgeo2)  
ibd

## Monte-Carlo test  
## Call: mantel.randtest(m1 = Dgen, m2 = Dgeo2)  
##   
## Observation: 0.3790073   
##   
## Based on 999 replicates  
## Simulated p-value: 0.099   
## Alternative hypothesis: greater   
##   
## Std.Obs Expectation Variance   
## 1.404243988 -0.003984948 0.074386618

# Heterozygosity

Hs(gi)

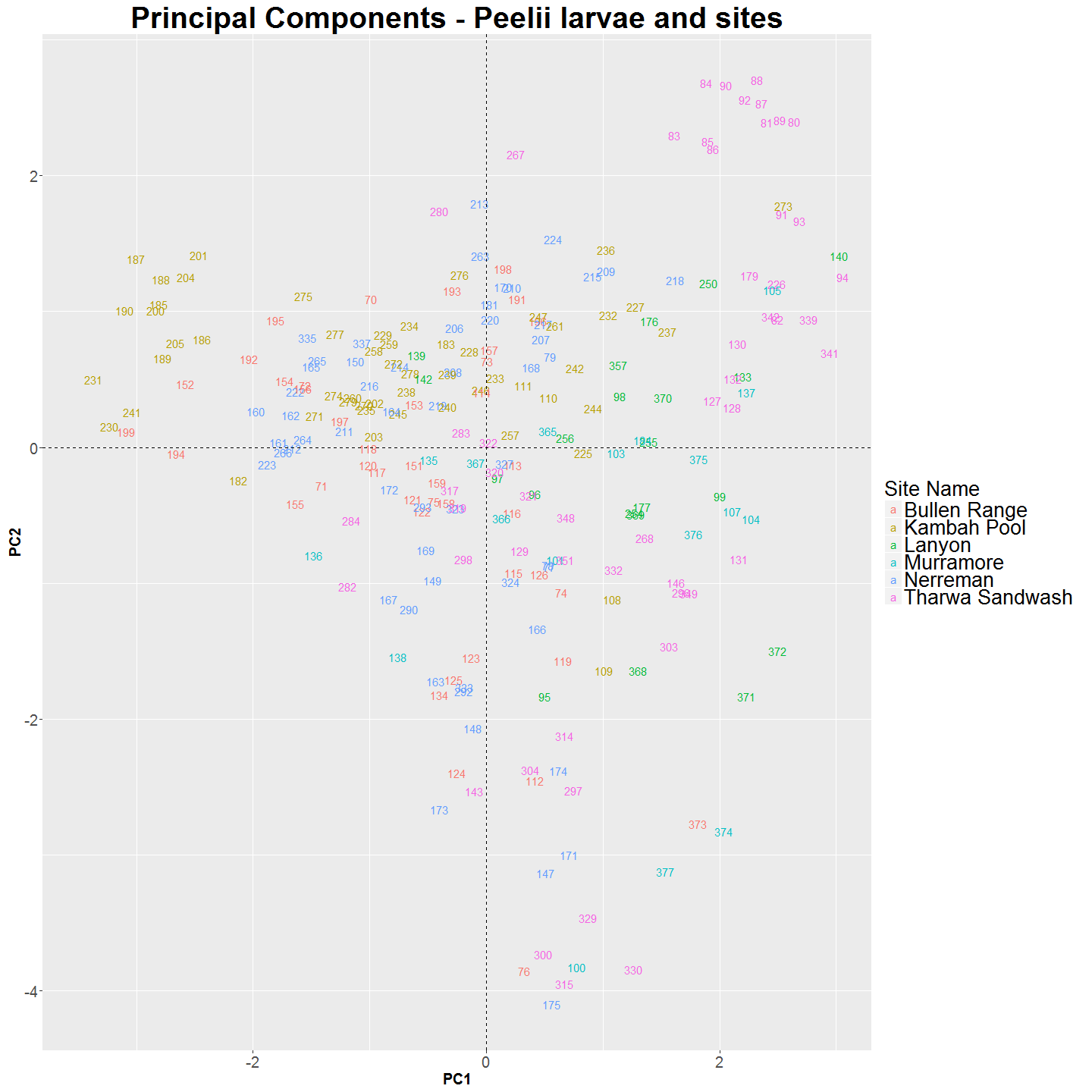
## Bullen Range Kambah Pool Lanyon Murramore Nerreman Tharwa Sandwash   
## 0.04375030 0.04420646 0.04083251 0.04254215 0.04704342 0.04643666

This function computes the expected heterozygosity (Hs) within populations of a genpop object. This function is available for codominant markers (@type="codom") only. Hs is commonly used for measuring within population genetic diversity (and as such, it still has sense when computed from haploid data).

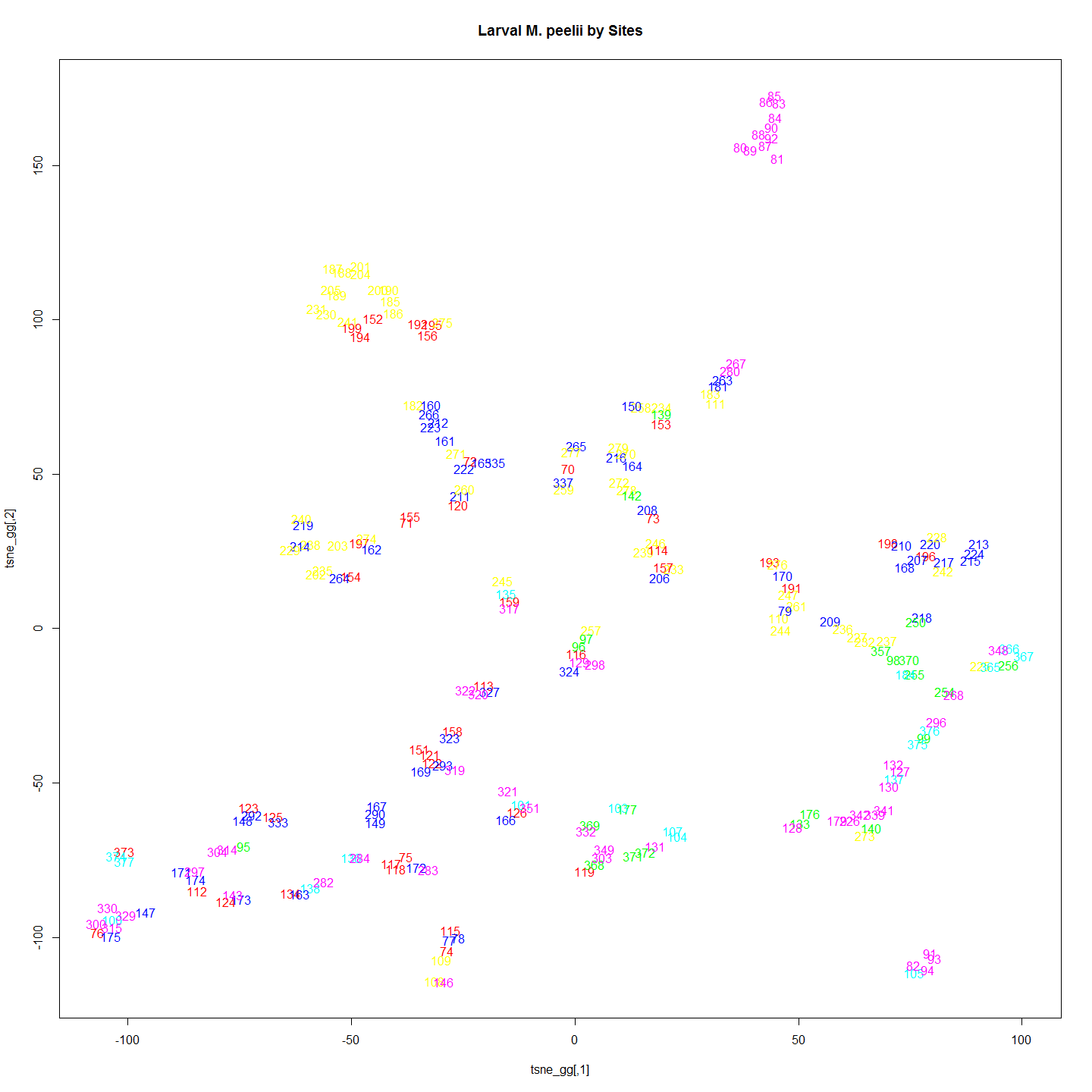
#First we do PCA and tSNE using peelii larvae and site  
#Vanilla PCA  
require(adegenet)  
require(ggplot2)  
  
system.time(pca1 <- glPca(gl[,], parallel=F, nf=3))

## user system elapsed   
## 61.38 0.02 61.87

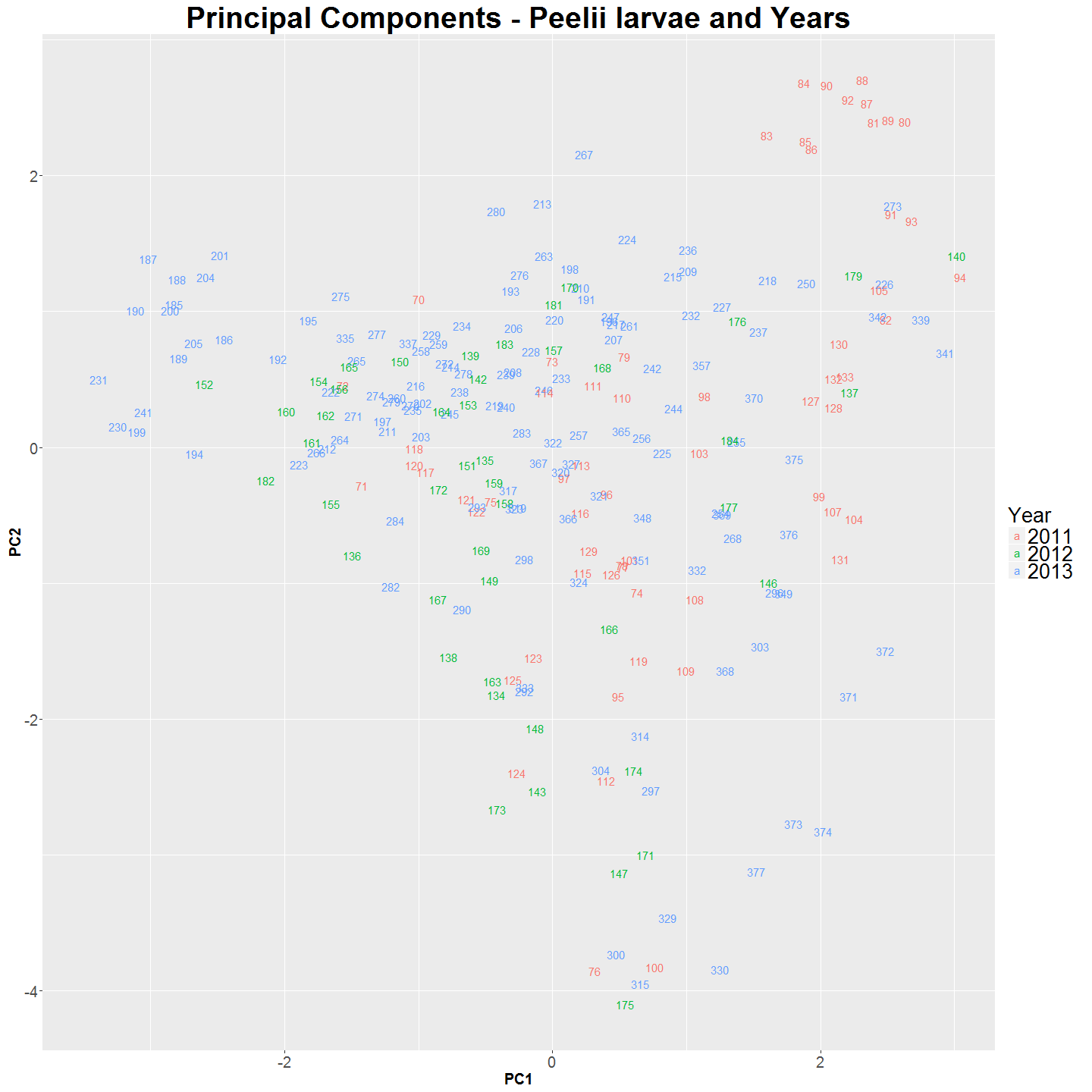
gg <- data.frame(pca1$scores,cluster=pop(gl))  
gg$labels <- rownames(gg)  
  
ggplot(gg, aes(x=PC1, y=PC2))+  
 geom\_text(aes(label=labels, color=factor(cluster)),hjust=-0.2, size=4) +  
 geom\_hline(yintercept=0,linetype=2) +  
 geom\_vline(xintercept=0,linetype=2) +  
 scale\_color\_discrete(name="Site Name") +  
 ggtitle("Principal Components - Peelii larvae and sites")+  
 theme(plot.title = element\_text(lineheight=.8, face="bold", size=29))+  
 theme(axis.text=element\_text(size=15), axis.title=element\_text(size=15,face="bold"),legend.text = element\_text(size = 20),legend.title = element\_text(size = 20))



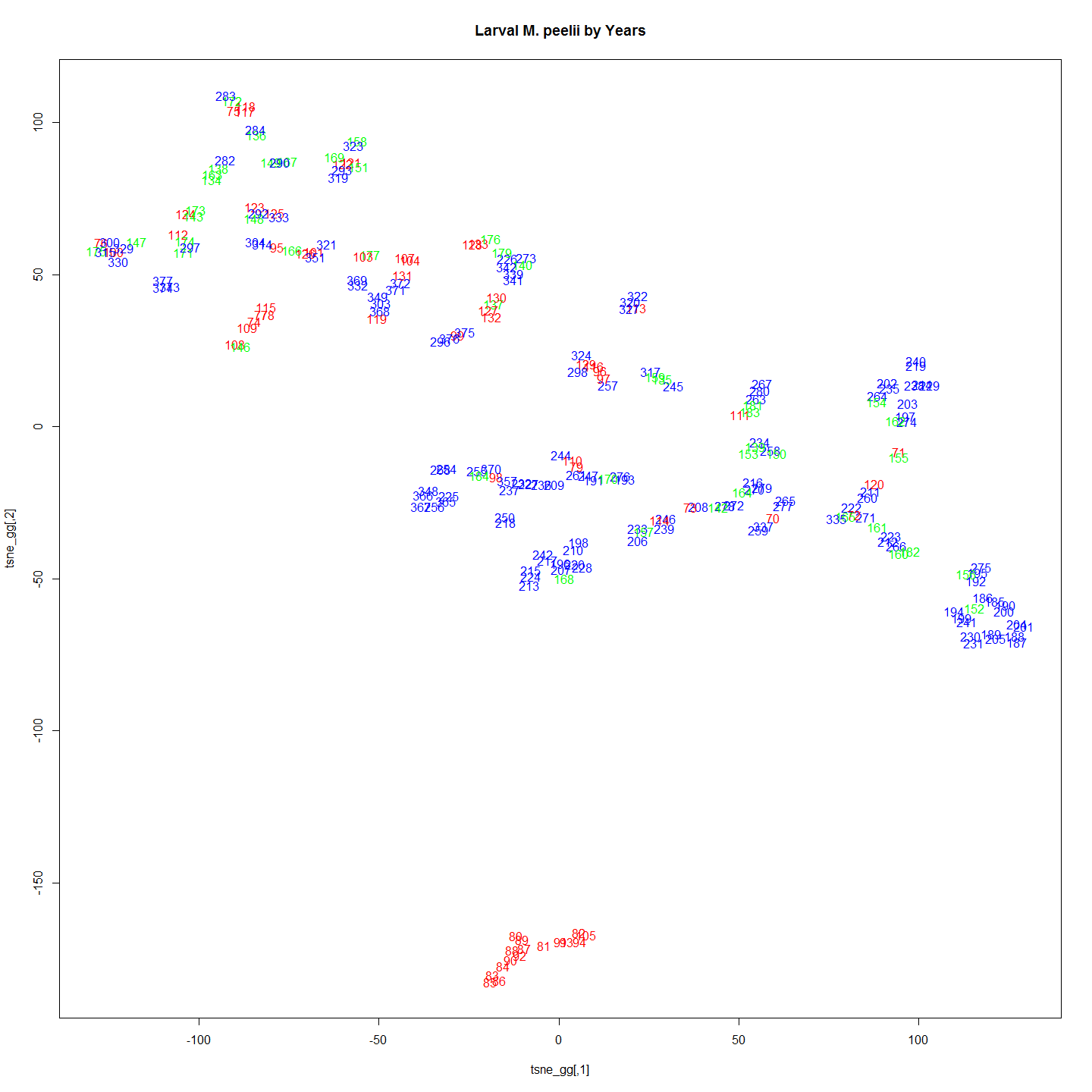
#tsne 2d  
require(tsne)  
colors<- rainbow(length(unique(gg$cluster)))  
names(colors) <- unique(gg$cluster)  
#ecb <-function(x,y){ plot(x,t='n',main="Larval M. peelii by Sites"); text(x,labels= row.names(gg),col=colors[gg$cluster])} #to make series  
#tsne\_gg <- tsne(gg[,1:3], max\_iter=10000,k=2, epoch\_callback = ecb, perplexity=5,epoch=1000)  
tsne\_gg <- tsne(gg[,1:3], max\_iter=10000,k=2, perplexity=5)  
plot(tsne\_gg,t='n',main="Larval M. peelii by Sites"); text(tsne\_gg,labels= row.names(gg),col=colors[gg$cluster])



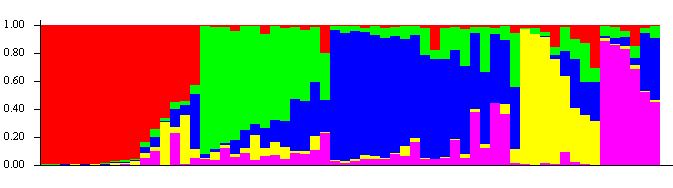
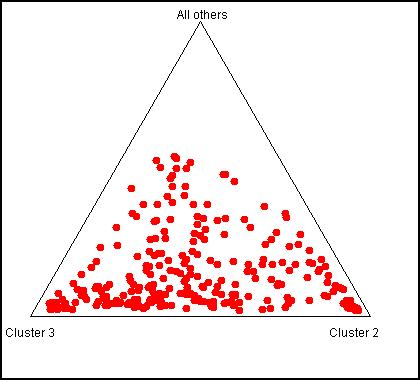
#Second we do PCA and tSNE with the same larvae coloured by year   
gg<- data.frame(pca1$scores,cluster=as.character(gl@other$covariates))  
gg$labels <- rownames(gg)  
ggplot(gg, aes(x=PC1, y=PC2))+  
 geom\_text(aes(label=labels, color=factor(cluster)),hjust=-0.2, size=4) +  
 # geom\_hline(yintercept=0,linetype=2) +  
 # geom\_vline(xintercept=0,linetype=2) +  
 scale\_color\_discrete(name="Year") +  
 ggtitle("Principal Components - Peelii larvae and Years")+  
 theme(plot.title = element\_text(lineheight=.8, face="bold", size=29))+  
 theme(axis.text=element\_text(size=15), axis.title=element\_text(size=15,face="bold"),legend.text = element\_text(size = 20),legend.title = element\_text(size = 20))

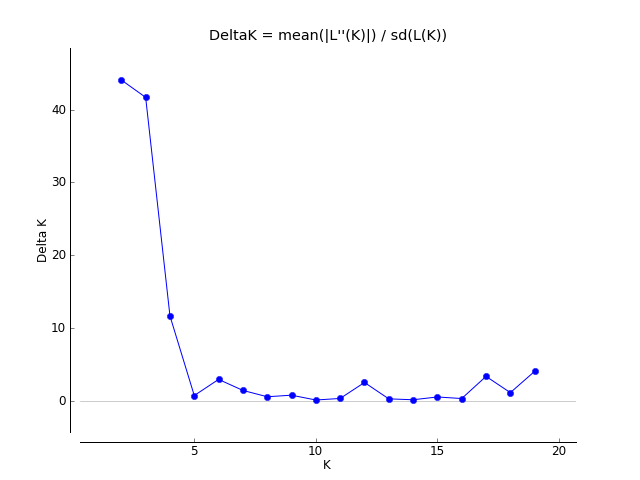


#tsne 2d  
require(tsne)  
colors<- rainbow(length(unique(gg$cluster)))  
names(colors) <- unique(gg$cluster)  
#ecb <-function(x,y){ plot(x,t='n',main="Larval M. peelii by Years"); text(x,labels= row.names(gg),col=colors[gg$cluster])} #to make series   
#tsne\_gg <- tsne(gg[,1:3], max\_iter=10000, epoch\_callback = ecb, perplexity=5,epoch=1000)  
tsne\_gg <- tsne(gg[,1:3], max\_iter=10000, perplexity=5)  
plot(tsne\_gg,t='n',main="Larval M. peelii by Years"); text(tsne\_gg,labels= row.names(gg),col=colors[gg$cluster])

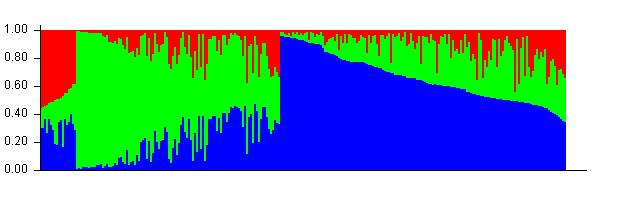
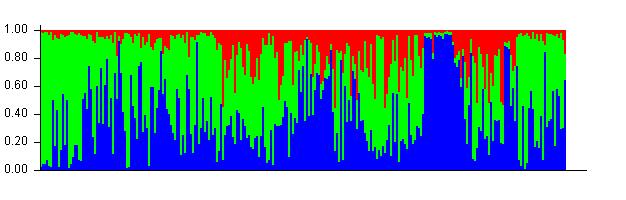


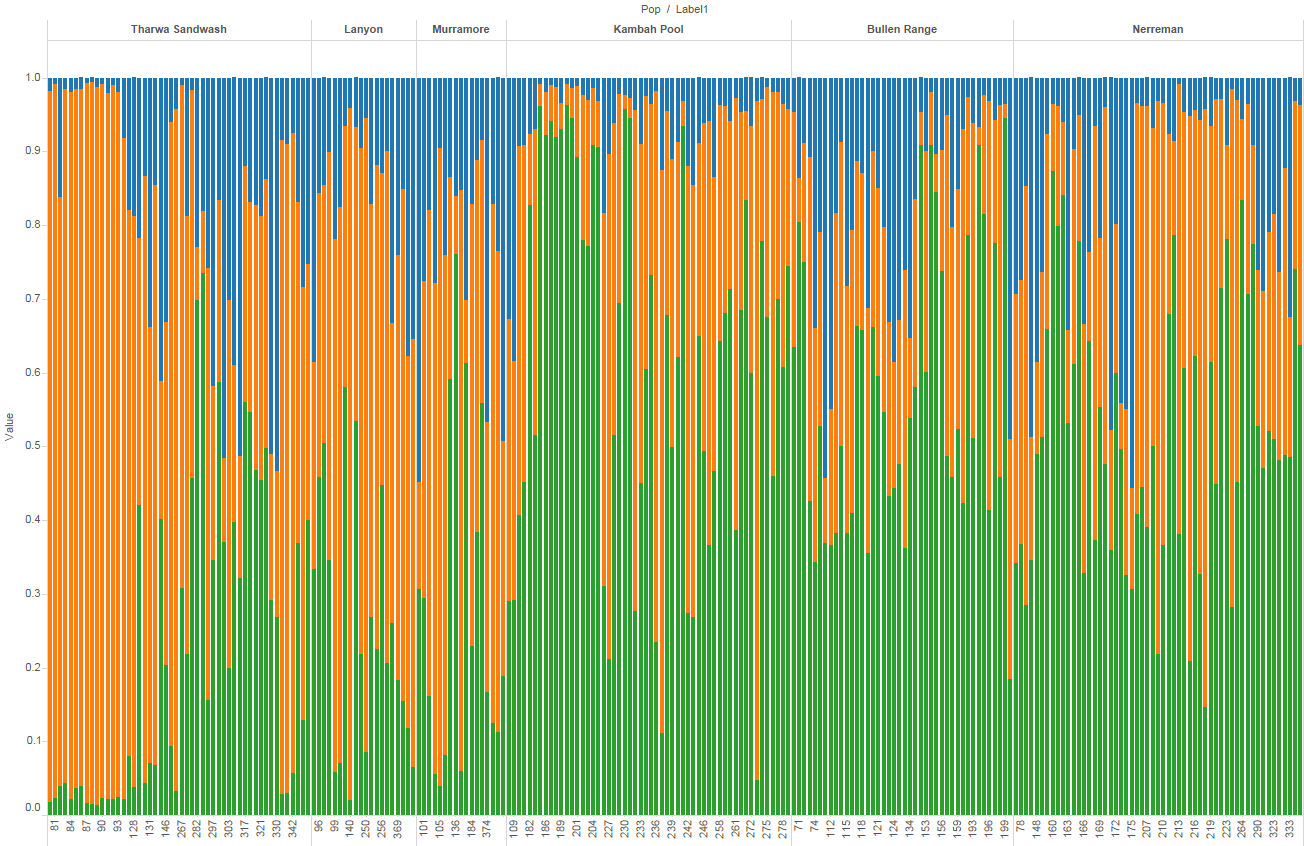
# ####################################Incase we need 3d plots  
# require(scatterplot3d)  
# tsne\_gg <- tsne(gg[,1:3], max\_iter=1000,k=3, perplexity=5)  
# scatterplot3d(tsne\_gg[,1],tsne\_gg[,2],tsne\_gg[,3], pch=16, highlight.3d=TRUE, main="3D Scatterplot")  
#   
# require(rgl)  
# #plot3d(tsne\_gg[,1],tsne\_gg[,2],tsne\_gg[,3], col="red", size=3)  
# plot3d(tsne\_gg[,1],tsne\_gg[,2],tsne\_gg[,3], col=colors[gg$cluster], size=3)

A little structure is evident if we look at structure based on collection site.  or as a triangle plot 

Following the evanno method we settled on 3 groups. 

so with three groups.

The structure is a associated with collection site. 

When the structure is examined based on the nest site rather than the collection site which better accounts for putative barriers and unidirectional dispersal. then:

after nests chapter is done

#Looking for DAPC, fixed differences, and Correspondence Analysis between populations.  
  
require(reshape2)  
require(dart)  
require(pegas)  
all.dart <- read.dart("otherData/larvalPeeliSnps.csv", topskip = 5)

## Added the following covmetrics:  
## CloneID SNP SnpPosition CallRate OneRatioSnp FreqHomRef FreqHomSnp FreqHets AvgCountRef AvgCountSnp RepAvg .  
## Number of rows per Clone. Should be only 2s:  
## 2  
## Recognised: 243 individuals and 6364 SNPs in otherData/larvalPeeliSnps.csv

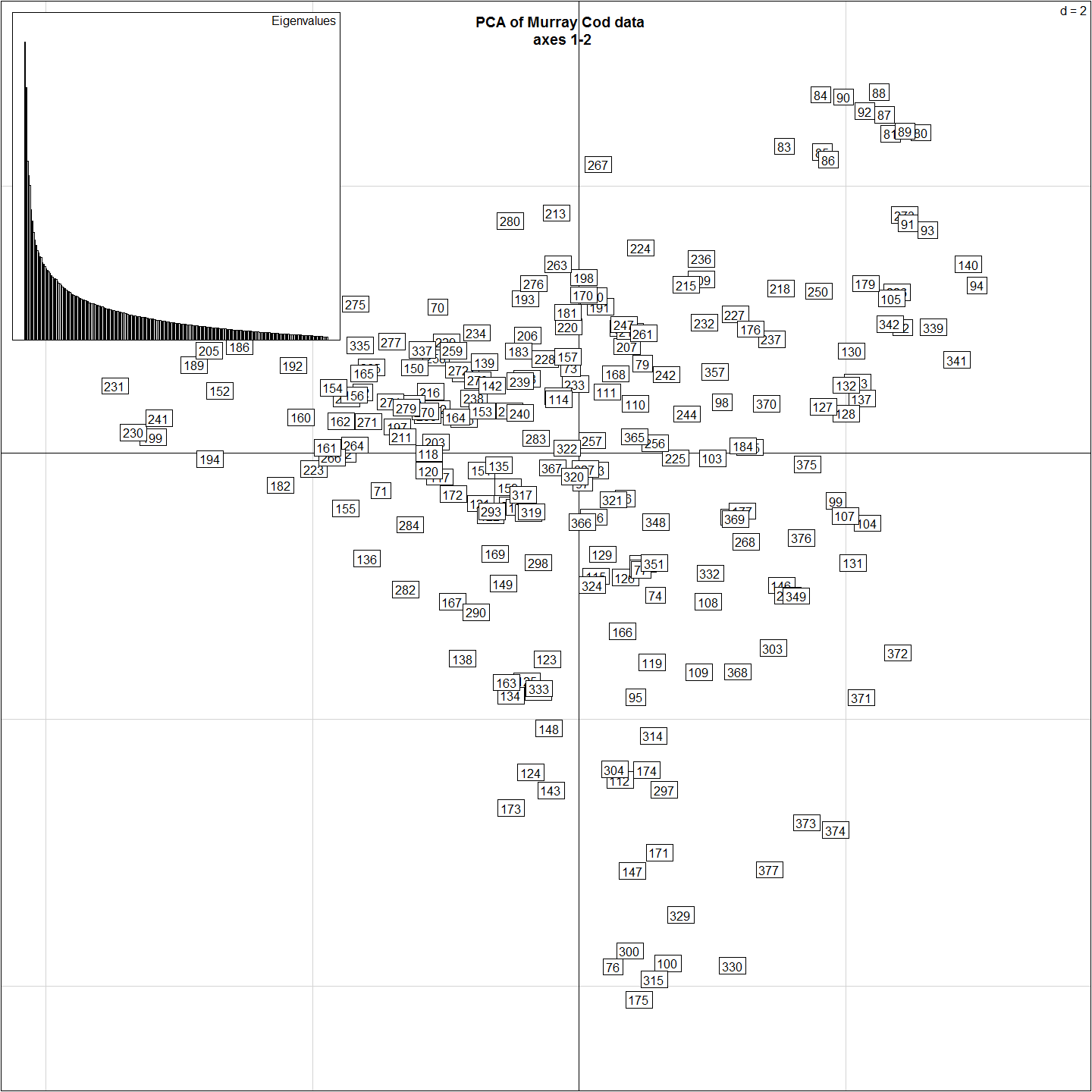
gl.dart <- dart2genlight(all.dart, covfilename = "otherData/qslLarvalPeeliiMetaForPCA.csv") # this glObject is then suitable for sharing via GitHub or such for open data as required by PeerJ etc. Need better file but.

## Start conversion....  
## Please note conversion of bigger data sets will take some time!  
## Once finished, we recommend to save the object using save(object, file="object.rdata")  
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## Try to add covariate file: otherData/qslLarvalPeeliiMetaForPCA.csv .  
## Ids of covariate file does not match the number of ids in the genetic file. Maybe this is fine if a subset matches.  
## Ids of covariate file (at least a subset of) are matching!  
## Found 243 matching ids out of 251 ids provided in the covariate file.  
## Added pop factor.  
## Added latlon data.  
## Added YearOnly to the other$covariates slot.  
## Added estimatedAge to the other$covariates slot.  
## Added Day.of.Year to the other$covariates slot.  
## Added hatchedDoY to the other$covariates slot.  
## Added Delta13C to the other$covariates slot.  
## Added Delta15N to the other$covariates slot.  
## Added CNRatio to the other$covariates slot.  
## Added Distance.to.Angle.Crossing..m. to the other$covariates slot.  
## Added raceCladeName to the other$covariates slot.  
## Added cladeGoTName to the other$covariates slot.  
## Added mumPulldown to the other$covariates slot.  
## Added Fathers to the other$covariates slot.  
## Added inbredCoeff to the other$covariates slot.

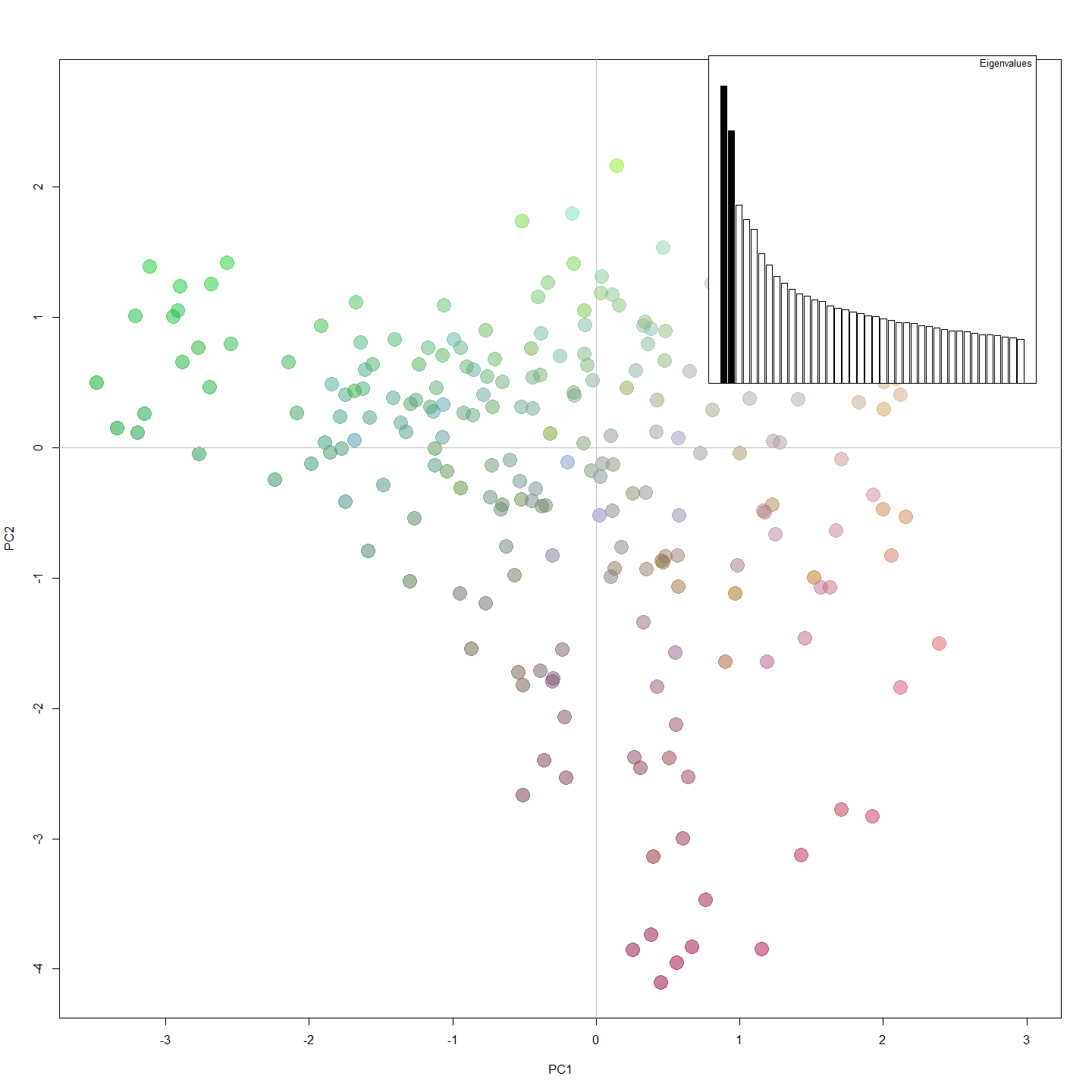
# cant work gl.fixed.diff(gl.dart, t=0)  
  
#PCA  
pca1 <- glPca(gl.dart, nf = 3 ,parallel = FALSE)  
pca1

## === PCA of genlight object ===  
## Class: list of type glPca  
## Call ($call):glPca(x = gl.dart, nf = 3, parallel = FALSE)  
##   
## Eigenvalues ($eig):  
## 2.077 1.762 1.245 1.144 1.078 0.908 ...  
##   
## Principal components ($scores):  
## matrix with 243 rows (individuals) and 3 columns (axes)   
##   
## Principal axes ($loadings):  
## matrix with 6364 rows (SNPs) and 3 columns (axes)

scatter(pca1, posi="topleft")  
title("PCA of Murray Cod data\n axes 1-2")



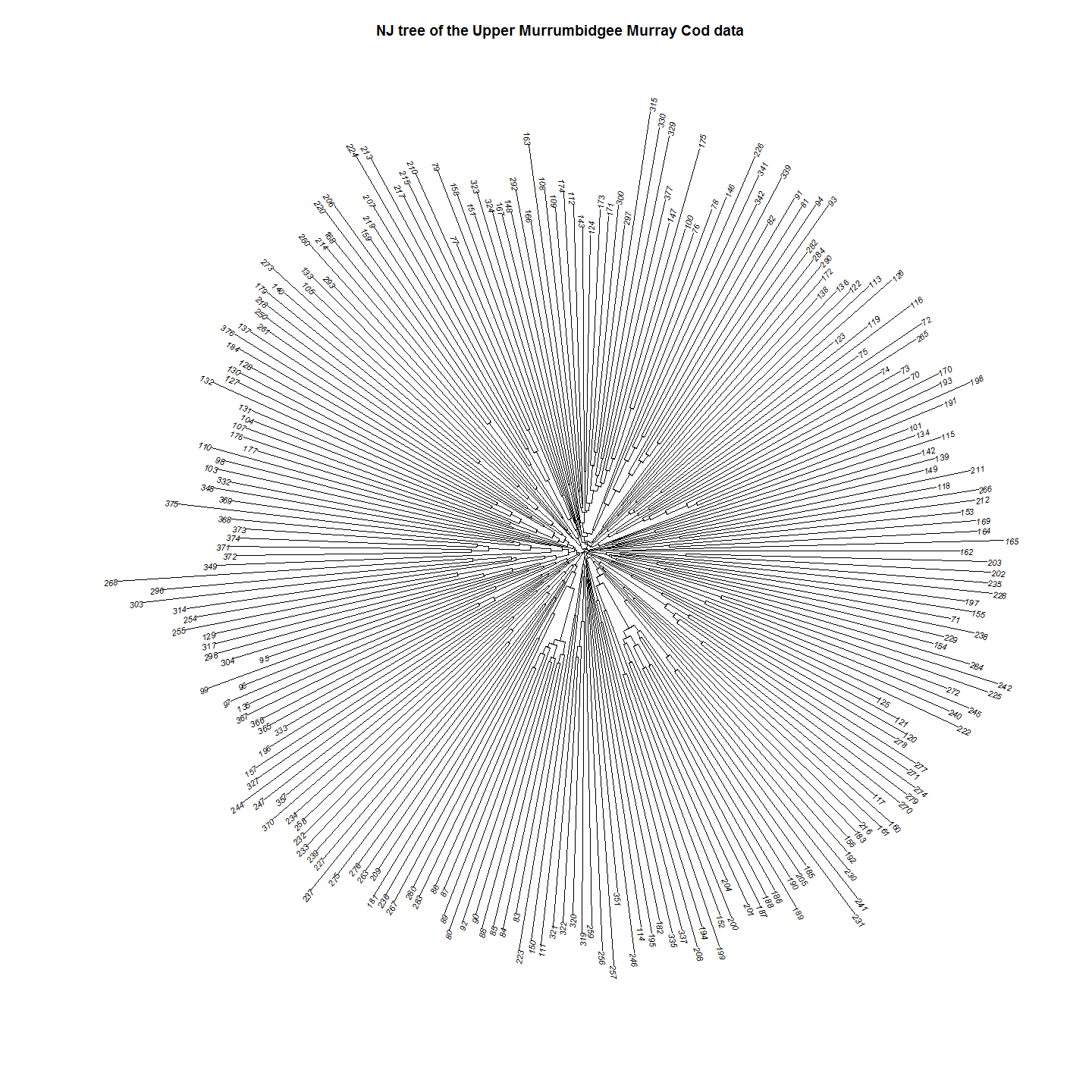
myCol <- colorplot(pca1$scores,pca1$scores, transp=TRUE, cex=4)  
abline(h=0,v=0, col="grey")  
add.scatter.eig(pca1$eig[1:40],2,1,2, posi="topright", inset=.05, ratio=.3)



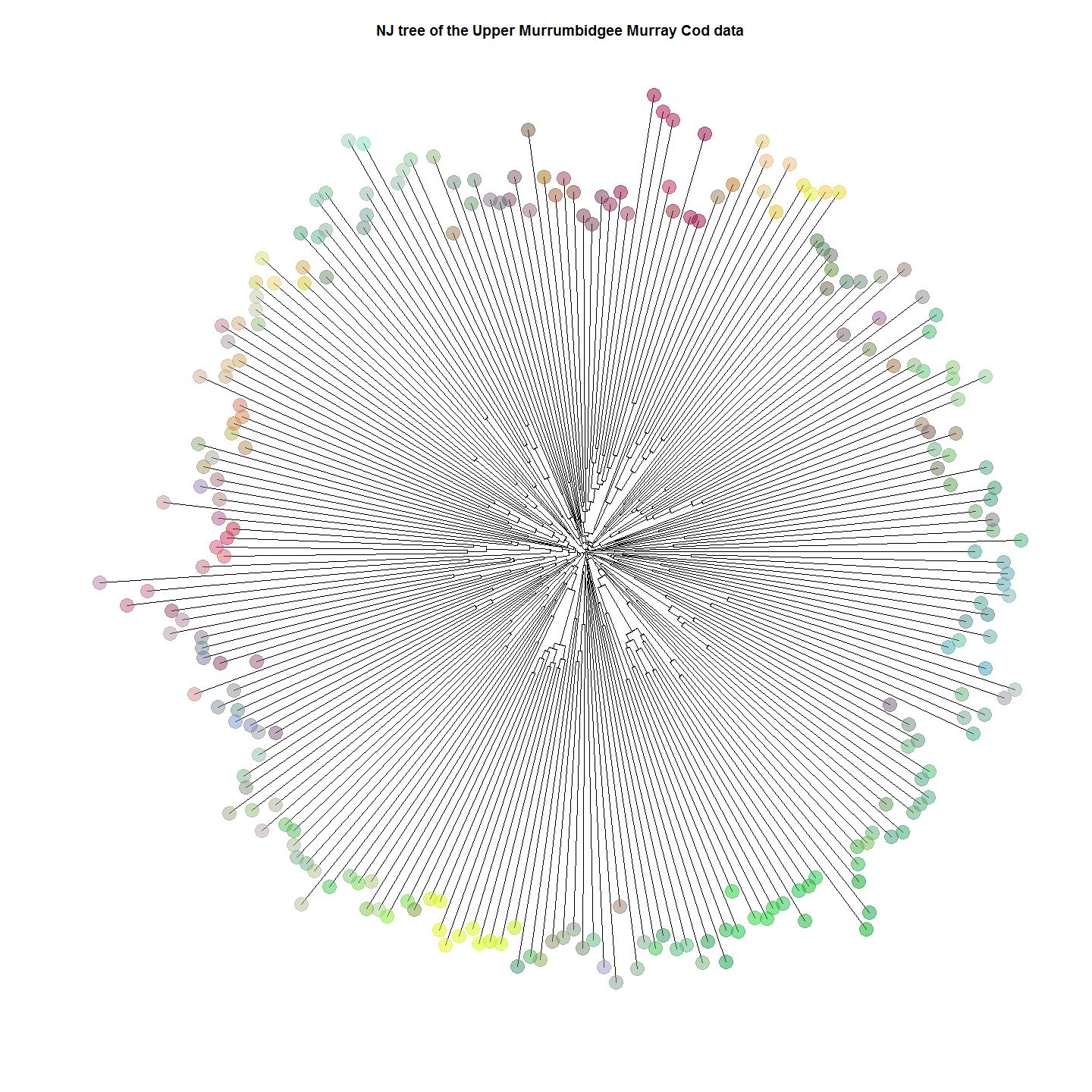
require(ape)  
tre <- nj(dist(as.matrix(gl)))  
tre

##   
## Phylogenetic tree with 243 tips and 241 internal nodes.  
##   
## Tip labels:  
## 185, 186, 187, 188, 189, 190, ...  
##   
## Unrooted; includes branch lengths.

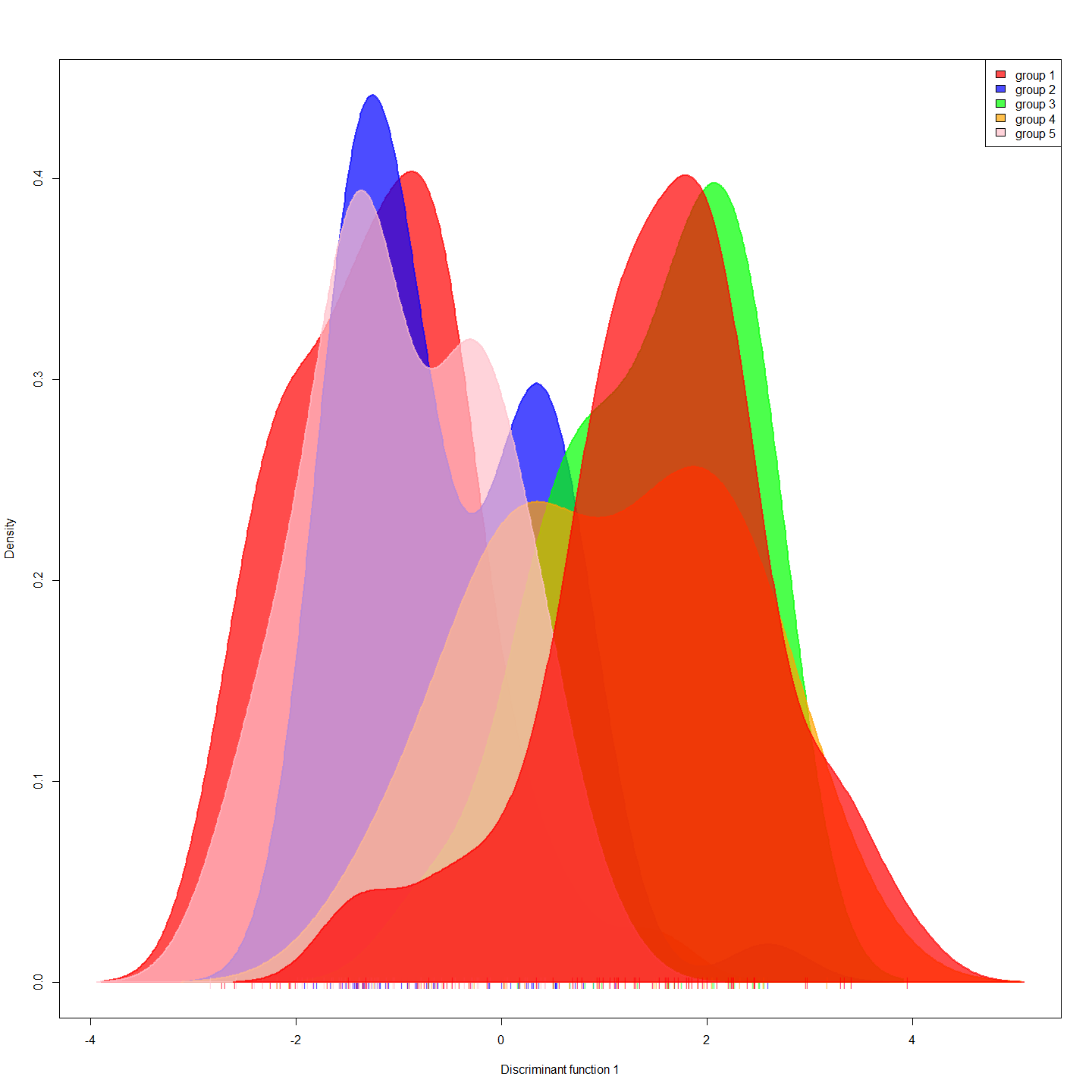
plot(tre, typ="fan", cex=0.7)  
title("NJ tree of the Upper Murrumbidgee Murray Cod data")



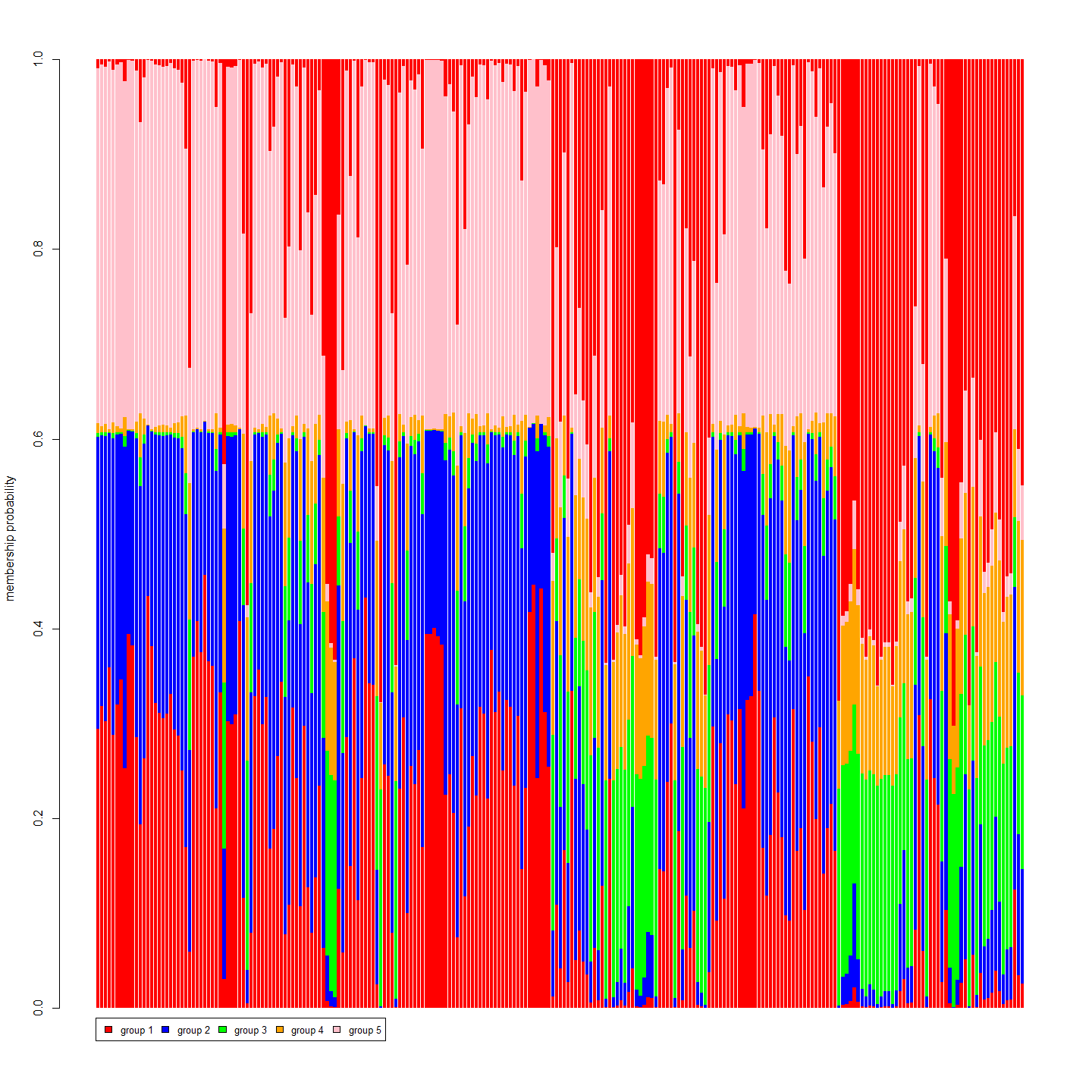
plot(tre, typ="fan", show.tip=FALSE)  
tiplabels(pch=20, col=myCol, cex=4)  
title("NJ tree of the Upper Murrumbidgee Murray Cod data")



#Discriminant Component Analysis   
dapc2 <- dapc(gl.dart, n.pca=10, n.da=1, parallel=FALSE)  
scatter(dapc2,scree.da=FALSE, bg="white", posi.pca="topright", legend=TRUE, txt.leg=paste("group", 1:5), col=c("red","blue","green","orange", "pink"))



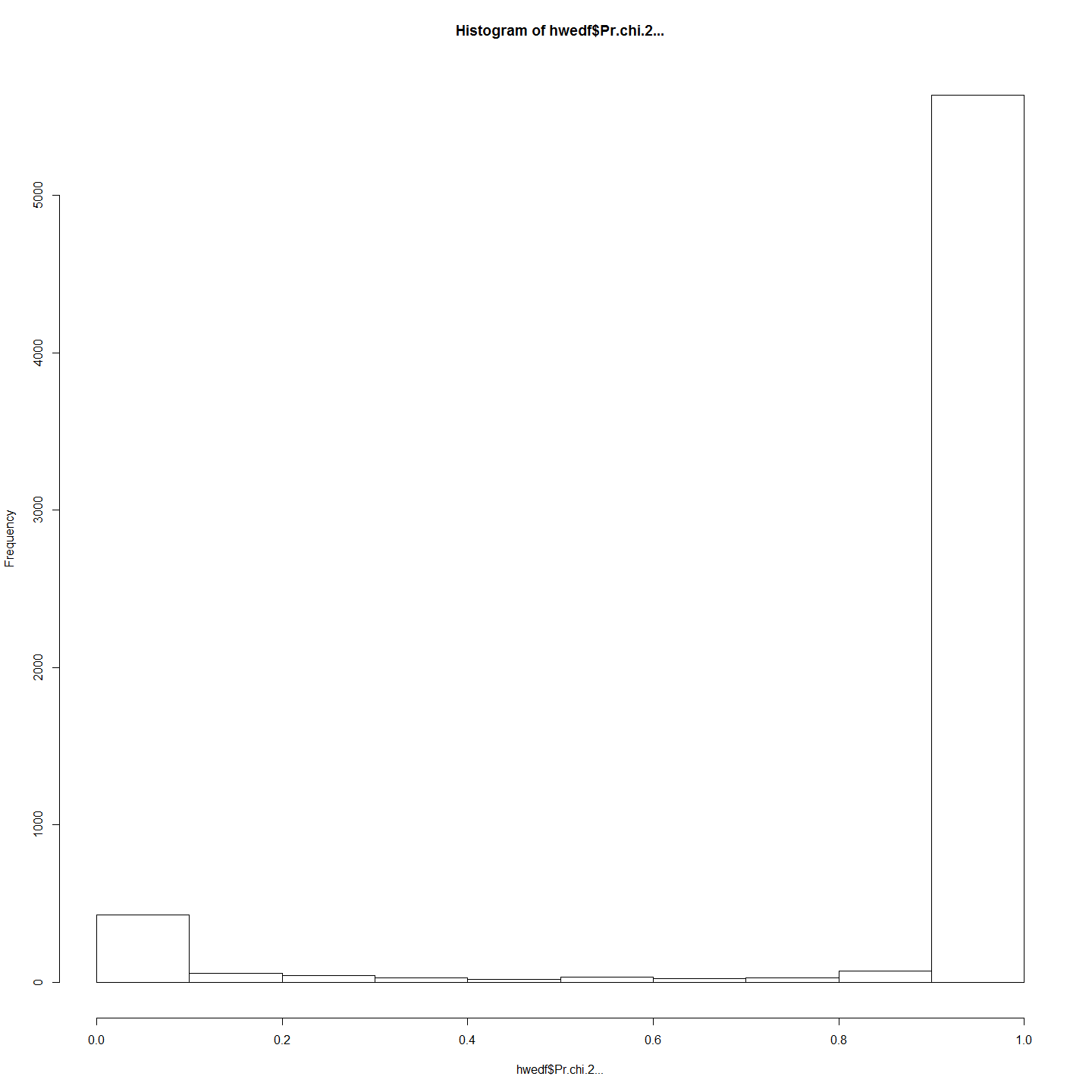
compoplot(dapc2, col=c("red","blue","green","orange", "pink"),lab="", txt.leg=paste("group", 1:5), ncol=5)



#Analysis on genInd object (individuals)  
#Hardy Weinberg  
source("genlight2genInd.R")  
gI<-genlight2genind(gl.dart)

## Start conversion....  
## Please note conversion of bigger data sets will take some time!  
## Once finished, we recommend to save the object using >save(object, file="object.rdata")  
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## Matrix converted.. Prepare genind object...  
## Finished! Took 85 seconds.

hwe<-hw.test(gI, B=0)  
hwedf<-data.frame(hwe)  
hist(hwedf$Pr.chi.2...)



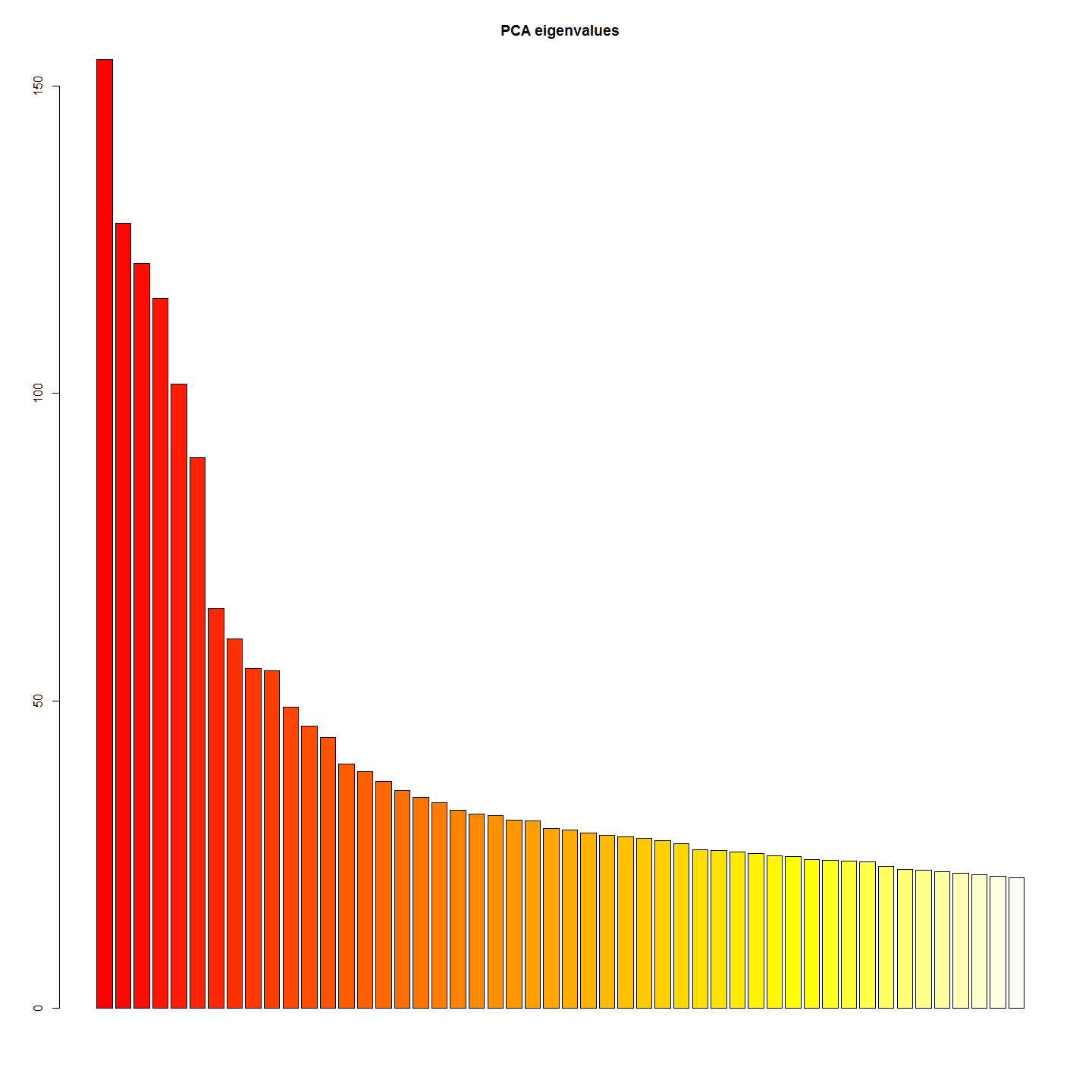
#There are   
sum(is.na(gI$tab)) #missing values in the data

## [1] 30511

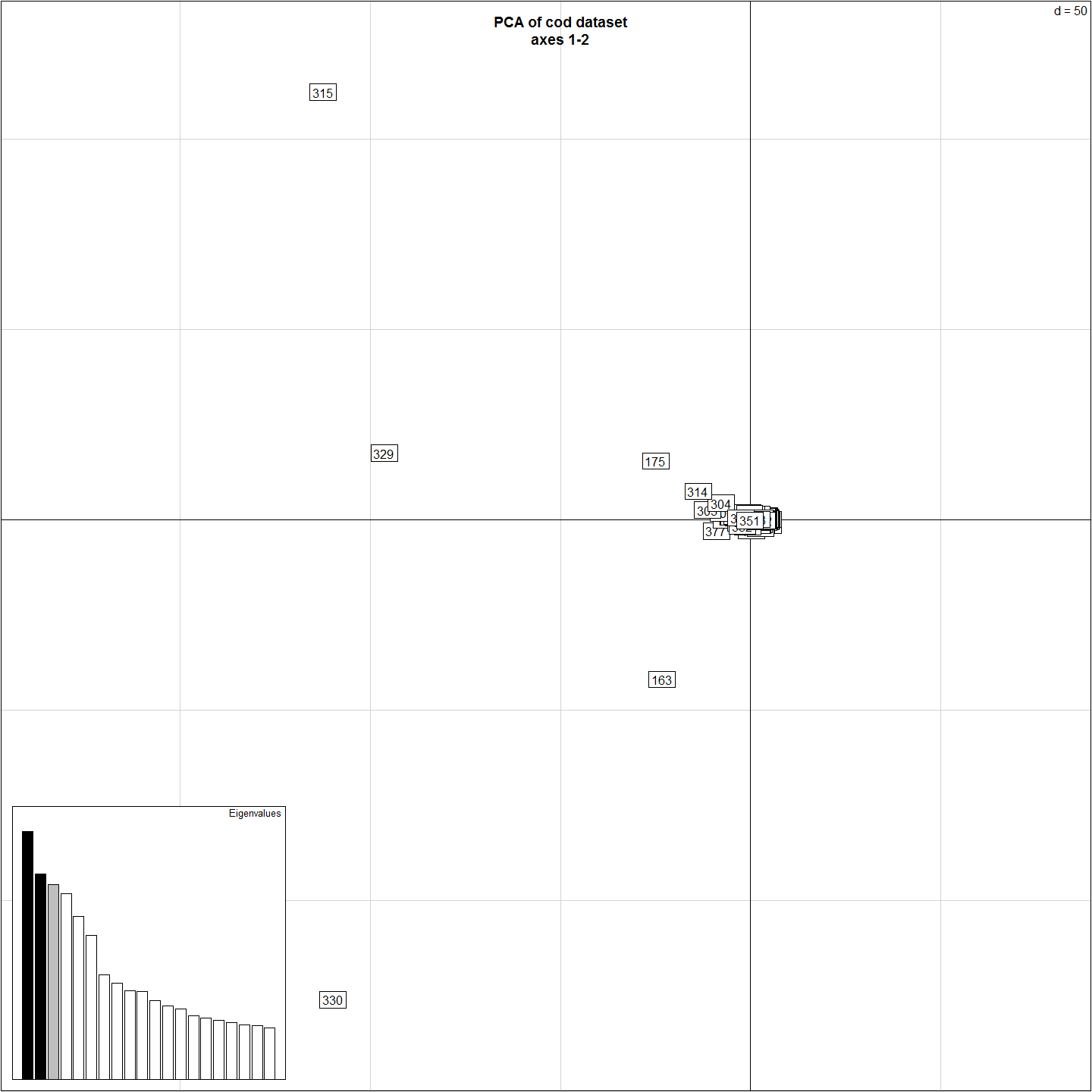
forPCOA<-scaleGen(gI, NA.method="mean") #scale the data  
forPCOA[1:5,1:5]

## 6661549-60-C/T.A 6661549-60-C/T.B 6650588-15-C/T.A 6650588-15-C/T.B 6661794-21-A/G.A  
## 185 2.006758 -2.006758 1.499011 -1.499011 0.1184337  
## 186 2.006758 -2.006758 1.499011 -1.499011 1.7172889  
## 187 0.289708 -0.289708 1.499011 -1.499011 0.1184337  
## 188 0.289708 -0.289708 1.499011 -1.499011 1.7172889  
## 189 0.289708 -0.289708 1.499011 -1.499011 0.1184337

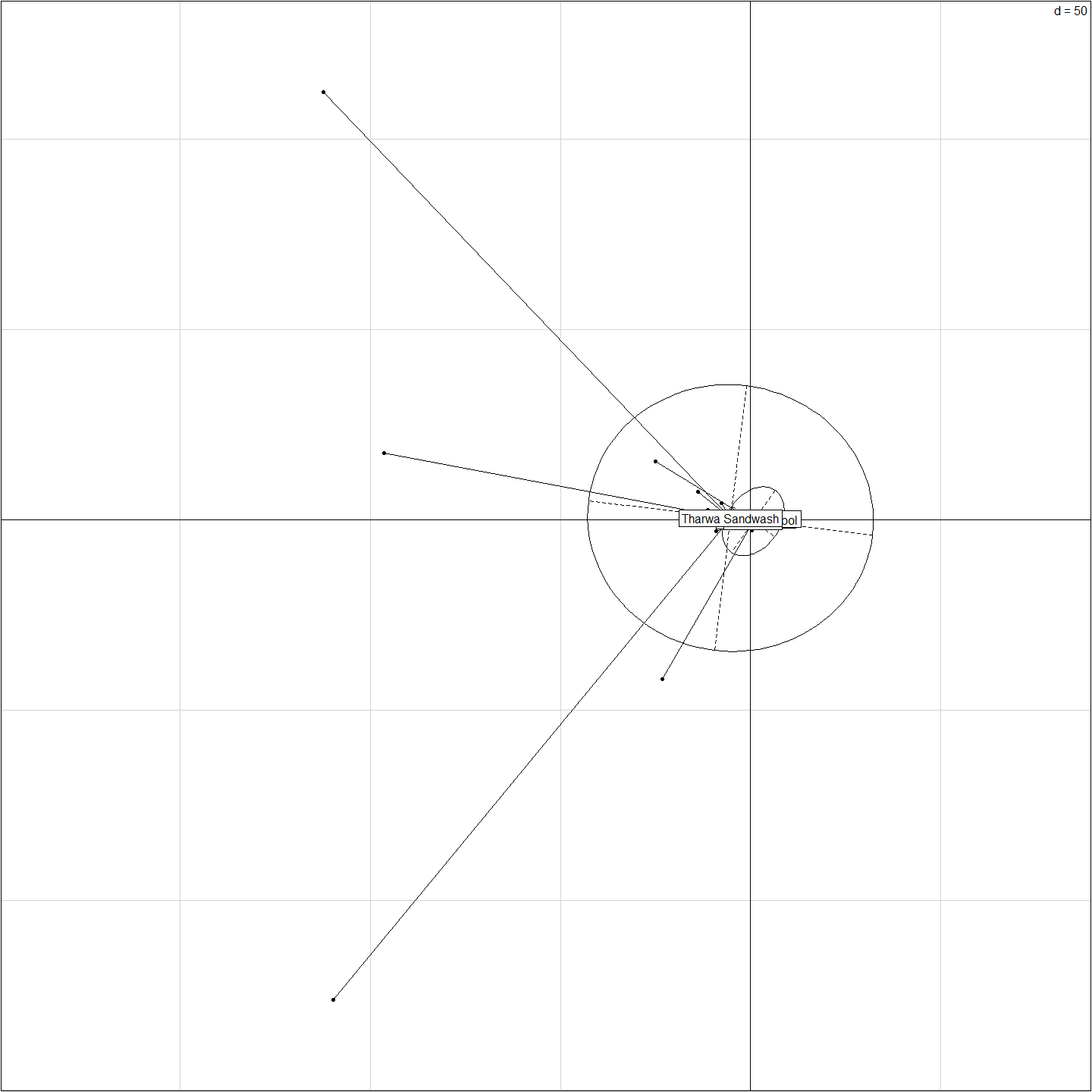
pca1 <- dudi.pca(forPCOA,cent=FALSE,scale=FALSE,scannf=FALSE,nf=3)  
barplot(pca1$eig[1:50],main="PCA eigenvalues", col=heat.colors(50))



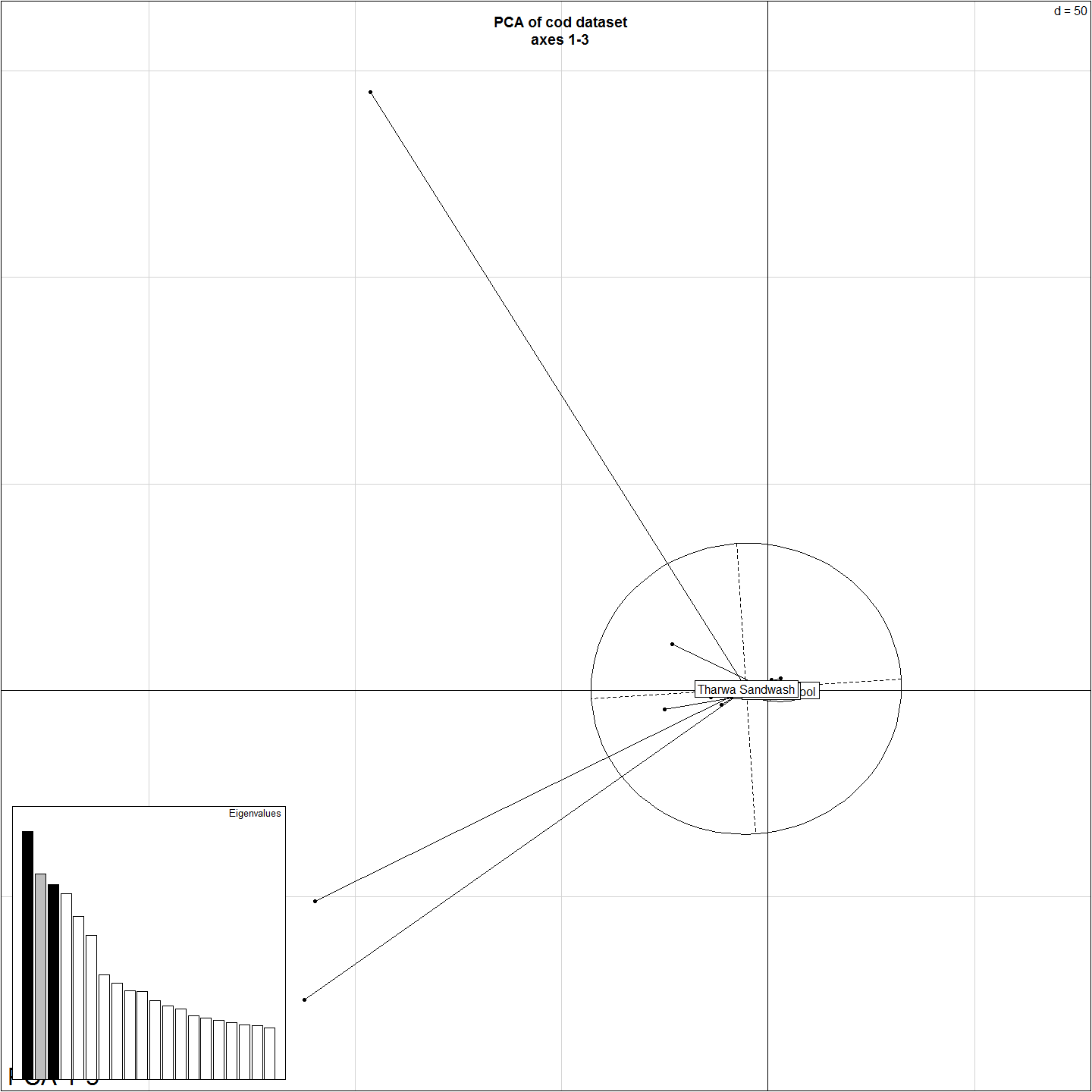
s.label(pca1$li)  
title("PCA of cod dataset\naxes 1-2")  
add.scatter.eig(pca1$eig[1:20], 3,1,2)



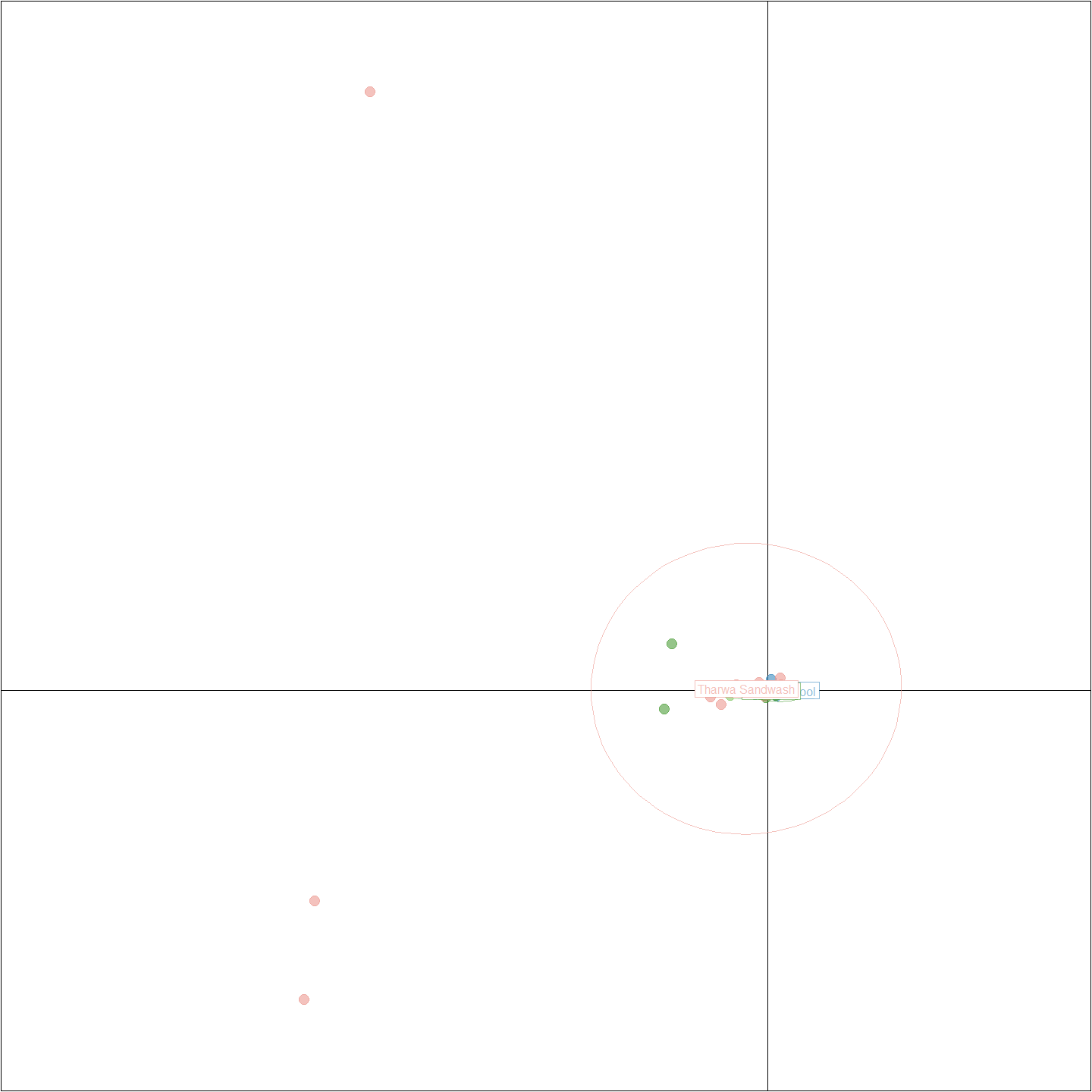
s.class(pca1$li, pop(gI))



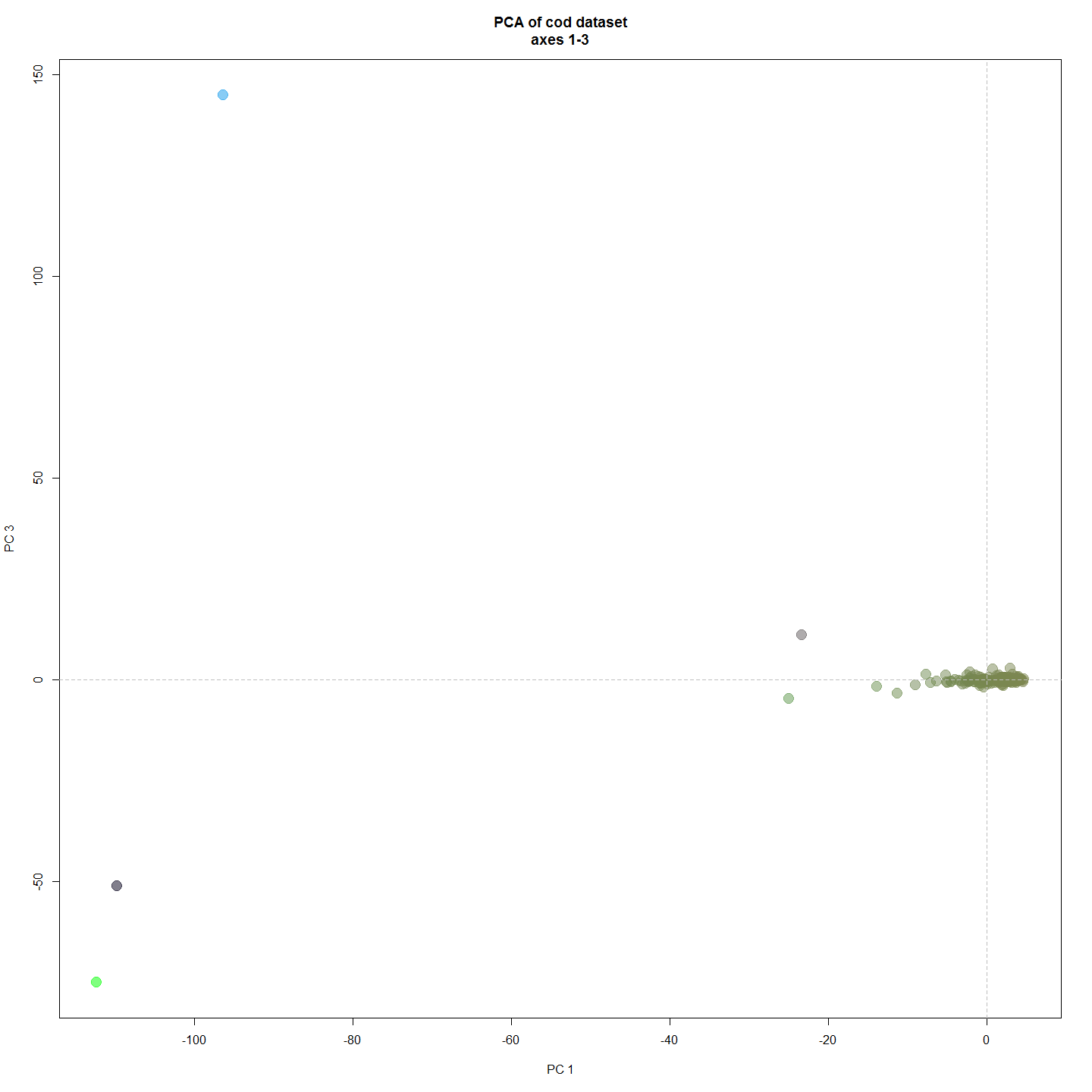
s.class(pca1$li,pop(gI),xax=1,yax=3,sub="PCA 1-3",csub=2)  
title("PCA of cod dataset\naxes 1-3")  
add.scatter.eig(pca1$eig[1:20],nf=3,xax=1,yax=3)



col <- funky(15)  
s.class(pca1$li, pop(gI),xax=1,yax=3, col=transp(col,.6), axesell=FALSE,  
 cstar=0, cpoint=3, grid=FALSE)



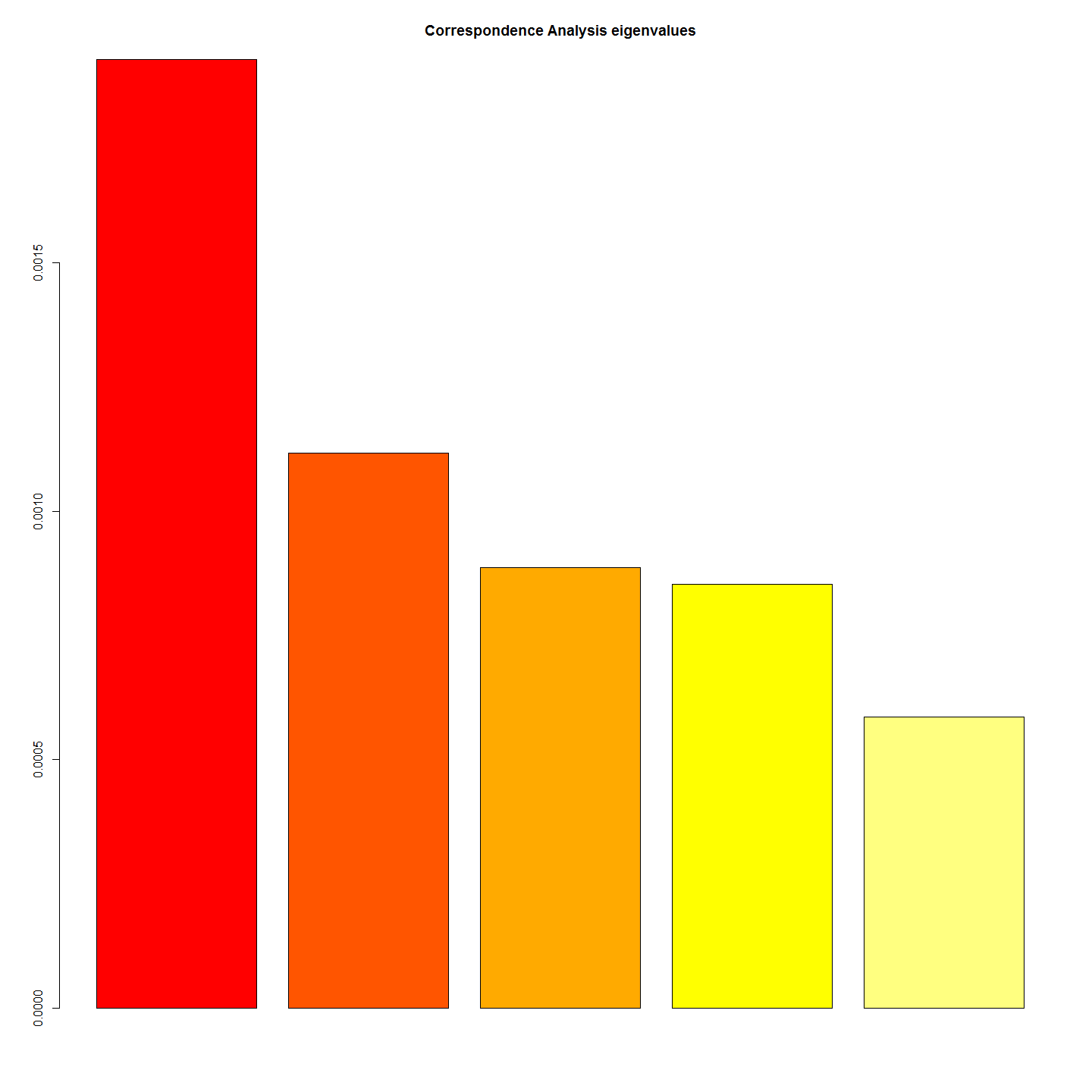
colorplot(pca1$li[c(1,3)], pca1$li, transp=TRUE, cex=3, xlab="PC 1", ylab="PC 3")  
title("PCA of cod dataset\naxes 1-3")  
abline(v=0,h=0,col="grey", lty=2)



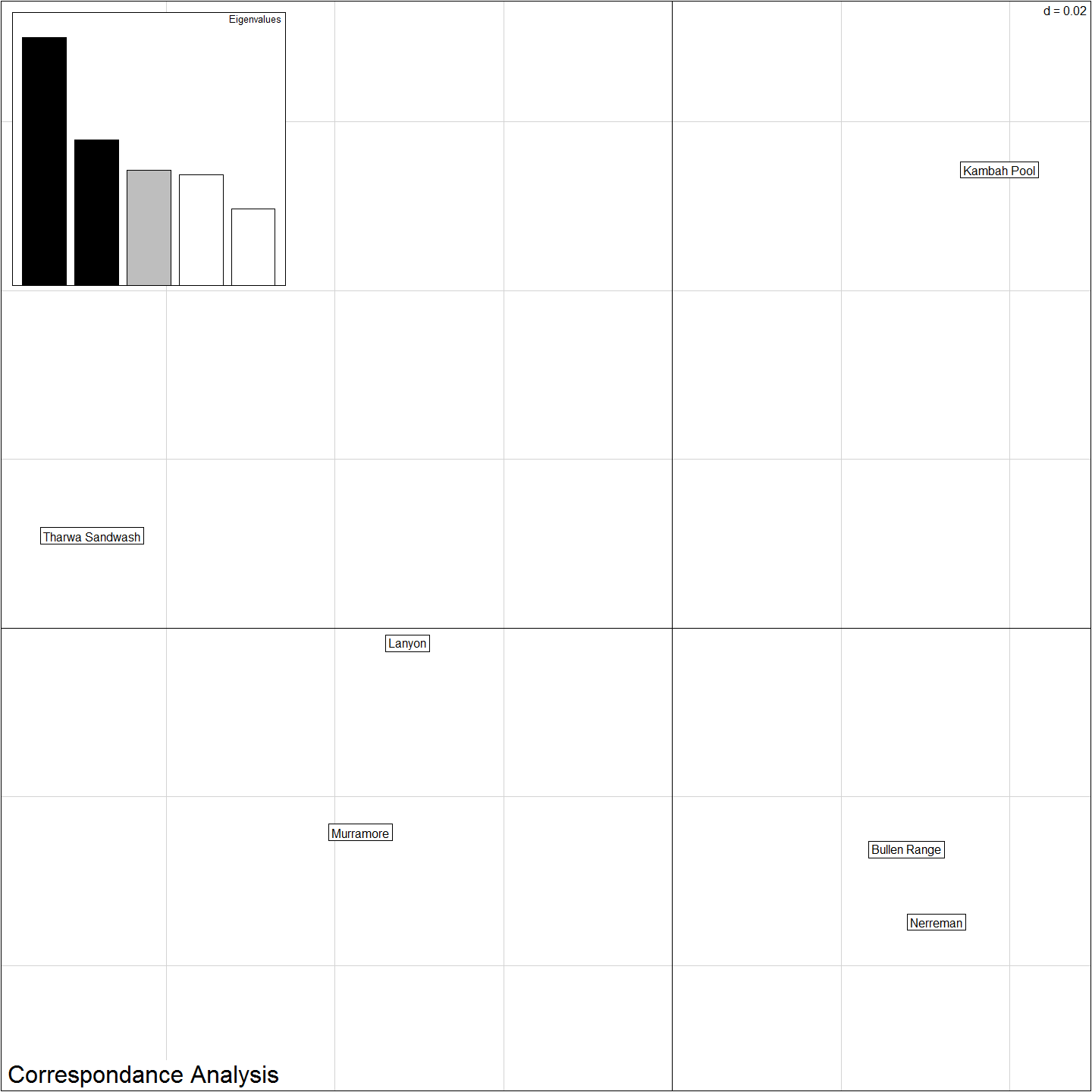
#Correspondance Analysis (genepop object)  
obj <- genind2genpop(gI)

##   
## Converting data from a genind to a genpop object...   
##   
## ...done.

ca1 <- dudi.coa(tab(obj),scannf=FALSE,nf=3)  
barplot(ca1$eig,main="Correspondence Analysis eigenvalues",  
 col=heat.colors(length(ca1$eig)))



s.label(ca1$li, sub="Correspondance Analysis",csub=2)  
add.scatter.eig(ca1$eig,nf=3,xax=1,yax=2,posi="topleft")



#Isolation By Distance  
# Dgen <- dist.genpop(obj,method=2)  
# Dgeo <- dist(gI$other$latlong) #need xys for sites in gI for this to work.  
# ibd <- mantel.randtest(Dgen,Dgeo)  
# ibd

all\_labels()

## [1] "Project\_Template\_and\_Knitr" "Set\_Global\_Options" "unnamed-chunk-1" "unnamed-chunk-2"   
## [5] "unnamed-chunk-3" "unnamed-chunk-4" "unnamed-chunk-5" "unnamed-chunk-6"   
## [9] "unnamed-chunk-7" "unnamed-chunk-8" "unnamed-chunk-9" "unnamed-chunk-10"   
## [13] "unnamed-chunk-11" "PCAtSNEStructure" "unnamed-chunk-12" "dapcCorrespondence"   
## [17] "Include\_Chunk\_Labels\_and\_Session Information" "averagePIC" "dapcCorroStructure"

proc.time()-ptm

## user system elapsed   
## 3865.05 11.25 3926.38

#Session Information  
sessionInfo()

## R version 3.3.0 (2016-05-03)  
## Platform: x86\_64-w64-mingw32/x64 (64-bit)  
## Running under: Windows 7 x64 (build 7601) Service Pack 1  
##   
## locale:  
## [1] LC\_COLLATE=English\_Australia.1252 LC\_CTYPE=English\_Australia.1252 LC\_MONETARY=English\_Australia.1252 LC\_NUMERIC=C LC\_TIME=English\_Australia.1252   
##   
## attached base packages:  
## [1] stats graphics grDevices utils datasets methods base   
##   
## other attached packages:  
## [1] reshape2\_1.4.1 StAMPP\_1.4 mmod\_1.3.1 hierfstat\_0.04-22 pegas\_0.9 ape\_3.5 tsne\_0.1-3 dart\_0.3 adegenet\_2.0.1   
## [10] ade4\_1.7-4 ggplot2\_2.1.0 plyr\_1.8.4 dplyr\_0.5.0 ProjectTemplate\_0.7 knitr\_1.13   
##   
## loaded via a namespace (and not attached):  
## [1] gtools\_3.5.0 splines\_3.3.0 lattice\_0.20-33 colorspace\_1.2-6 htmltools\_0.3.5 yaml\_2.1.13 DBI\_0.5 sp\_1.2-3 foreach\_1.4.3 stringr\_1.0.0   
## [11] munsell\_0.4.3 gtable\_0.2.0 codetools\_0.2-14 coda\_0.18-1 evaluate\_0.9 labeling\_0.3 doParallel\_1.0.10 httpuv\_1.3.3 parallel\_3.3.0 spdep\_0.6-6   
## [21] Rcpp\_0.12.6 KernSmooth\_2.23-15 xtable\_1.8-2 scales\_0.4.0 formatR\_1.4 gdata\_2.17.0 mime\_0.5 deldir\_0.1-12 digest\_0.6.10 stringi\_1.1.1   
## [31] gmodels\_2.16.2 shiny\_0.13.2 grid\_3.3.0 tools\_3.3.0 LearnBayes\_2.15 magrittr\_1.5 lazyeval\_0.2.0 tibble\_1.1 seqinr\_3.3-0 MASS\_7.3-45   
## [41] Matrix\_1.2-6 assertthat\_0.1 rmarkdown\_1.0 iterators\_1.0.8 R6\_2.1.2 boot\_1.3-18 igraph\_1.0.1 nlme\_3.1-128