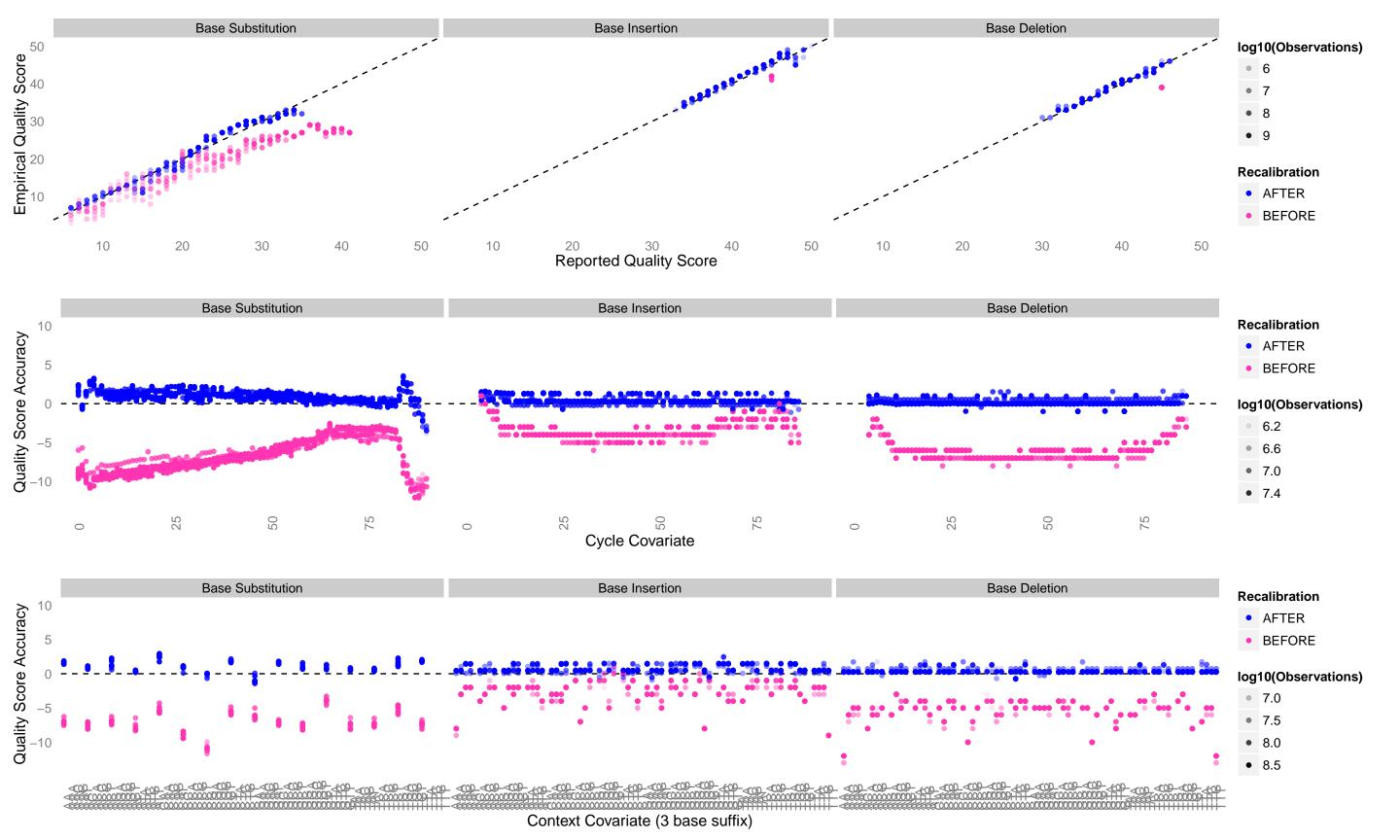
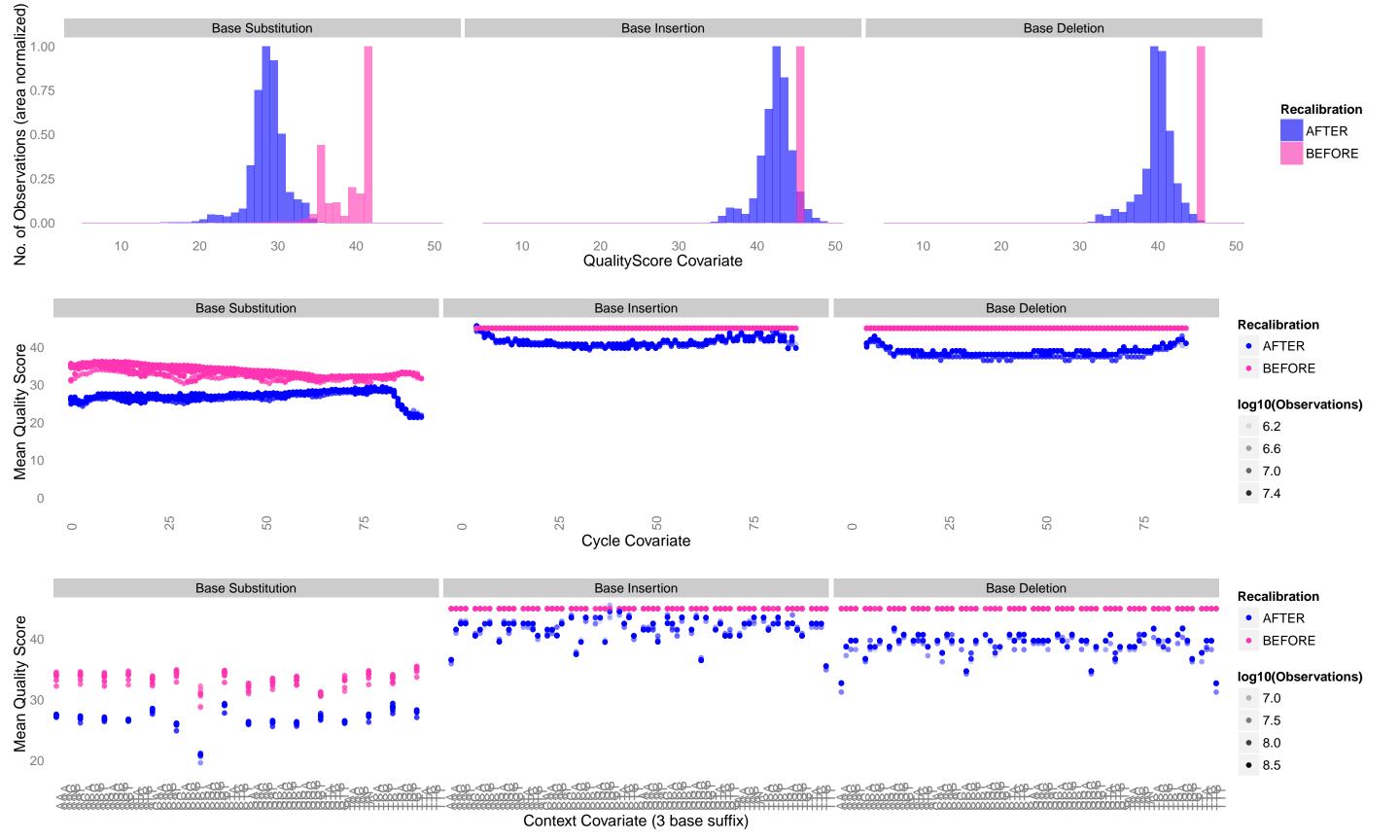
GATK BaseRecalibration report

Argument	Value
binary_tag_name	None
covariate	ReadGroup, QualityScore, Context, Cycle
default_platform	None
deletions_default_quality	45
force_platform	None
indels_context_size	3
insertions_default_quality	45
low_quality_tail	2
maximum_cycle_value	500
mismatches_context_size	2
mismatches_default_quality	—1
no_standard_covs	false
quantizing_levels	16
run_without_dbsnp	false
solid_nocall_strategy	THROW_EXCEPTION
solid_recal_mode	SET_Q_ZERO





Overall error rates by event type

:3	D7LYMFP1:407:5	D7LYMFP1:407:5	D7LYMFP1:407:5	D7LYMFP1:407:1	D7LYMFP1:407:1	D7LYMFP1:407:1	D7LYMFP1:407:2	D7LYMFP1:407:2	D7LYMFP1:407:2	D7LYMFP1:407:4	D7LYMFP1:407:4	D7LYMFP1:407:4	D7LYMFP1:407:6	D7LYMFP1:407:6	D7LYMFP1:407:6	D7LYMFP1:407:7	D7LYMFP1:407
D	M	1	D	M	1	D	M	I	D	M	1	D	M	l I	D	M	
.0	27.0	42.0	39.0	26.0	41.0	39.0	26.0	42.0	39.0	27.0	42.0	39.0	27.0	42.0	39.0	27.0	42
.0	33.4	45.0	45.0	32.1	45.0	45.0	33.4	45.0	45.0	33.4	45.0	45.0	33.4	45.0	45.0	33.8	45
19	3.99e+09	3.99e+09	3.99e+09	1.73e+09	1.73e+09	1.73e+09	3.81e+09	3.81e+09	3.81e+09	3.78e+09	3.78e+09	3.78e+09	3.63e+09	3.63e+09	3.63e+09	3.53e+09	3.53e+(
15	8 800+06	2.640+05	4.010+05	4.560+06	1 280+05	2 440+05	8 820+06	2.520+05	4.710+05	8 410+06	2.450+05	4.500+05	8 000+06	2 350+05	4.440+05	7 480+06	2 310+(

Error rates by event type and initial quality score

D72/MFP1:407:3 D72/MFP1:407:3	22	ij.	16 20	4140047 5192805	71229.28 53151.74
D7018FP14003 D7018FP14003 D7018FP14003 D7018FP14003 D7018FP14003 D7018FP14003 D7018FP14003	27 28 29	M	19 23 23	4140047 5192805 5845478 4270018 9050397 15553090 17435511	71229.28 51351.74 70775.28 27160.86 42754.87
D701MFP1:407:3 D701MFP1:407:3 D701MFP1:407:3	21 32 33	M	24 25 27	17435511 23370317 44660999	7,2850.64 6647.27 70:448.27 70:448.27 70:448.27 70:448.27 70:448.27 70:448.27 70:448.27 70:448.27 70:488.27 70
D70:MFP1:407:3 D70:MFP1:407:3 D70:MFP1:407:3	34 35 36	M M	26 27 29	86087581 676159742 170663437	212207.91 1276056.87 208708.08
D701MFP1:407:3 D701MFP1:407:3 D701MFP1:407:3	37 38 39	ii.	28 27 28	170653437 177022482 60554745 287090716	256391.76 130535.91 505161.00
D701MFP1407:3 D701MFP1407:3 D701MFP1407:3	40 45 45	M	27 27 42 39	279524729 1480025149 3372262406 3372262406	2675109.68 221296.05 412747.08
D701MFP1:407:5 D701MFP1:407:5 D701MFP1:407:5	6 7	M M	7 7	1480025149 3372262406 3372262406 261707 1405063 1412868	85524.42 278581.73 303303.39
D701MFP1407S D701MFP1407S D701MFP1407S	9 10 11	M M M	7 8 12	26 (707) 5-050503 5-1-050503 6-1-120603 6-75042 9-1-0204 4-12074 9-1-12074 9-1-12075 1-1906076 1001508	150803.27 148566.54 36131.59
D707MFP1:407:5 D707MFP1:407:5 D707MFP1:407:5	12 13 14	M	13 14 12	412974 911301 324466	22385.14 37815.49 18913.14
D701MFP14075 D701MFP14075 D701MFP14075	16 17	ii ii	15 12 15	11905/6 1001508 1274901 2148375	41098.16 66028.48 44705.32 97512.87
D701MFP14075 D701MFP14075 D701MFP14075	19 20 21	ii ii	15 21 10	1164773 2457738 973107	38862.02 19957.32 16302.57
D701MFP1:407:5 D701MFP1:407:5 D701MFP1:407:5	22 23 24	N.	20 21 19	11900/6 1001/508 1274/881 214/8375 1164/773 973107 1818/881 244/5738 255/508 465/508 619200 619200	17979.19 24909.28 42546.67
D701MFP1407.5 D701MFP1407.5 D701MEP1407.5	26 27 28	N N	20 22 21 25	6257400 6192200 5192608	41601.99 49908.90 17665.72
D701MFP1407S D701MFP1407S D701MFP1407S	29 30 31	M M M	24 25 25	6257400 6192200 5197600 10455766 16124654 19296266 23125730	41943.03 48783.78 60310.10
D701MFP1:407:5 D701MFP1:407:5 D701MFP1:407:5	32 33 34	M	26 27 26	90609479	60547.86 94240.24 222386.65
D707MFP1407.5 D707MFP1407.5 D707MFP1407.5	36 37 38	ii ii	29 29 29 27	785400439 199870738 208973244 75274735	238682.13 288207.74 151351.26
D70:MFP1:407.5 D70:MFP1:407.5 D70:MFP1:407.5	39 40 41	M M	28 28 27	208973244 75274735 367361384 298872913 1801368455	649109.01 515025.47 3268315.28
D701MFP1:407:5 D701MFP1:407:5 D701MEP1:407:1 D701MEP1:407:1	46	, d	39 4	1801384655 390232844 390232844 390232844 39023284 5077718 5077	4405.5.3 (400.5.3) (400.5.
D701MFP1:407:1 D701MFP1:407:1 D701MFP1:407:1	8 9	ii ii	6	977215 657777 574368	262568.74 155655.42 100659.43
D70:MFP1:407:1 D70:MFP1:407:1 D70:MFP1:407:1	11 12 13	M	11 11 12	389513 261081 738728	30312.40 21112.40 49352.41
D701MFP1:407:1 D701MFP1:407:1 D701MFP1:407:1	14 15 16	M	12 13 16	285967 1292247 1412497	17070.21 60185.04 38118.10
D70:1MFP1:407:1 D70:1MFP1:407:1 D70:1MFP1:407:1	18 19 20	M M M	15 17 19	1660945 1114973 855462	50005.75 23804.48 11575.17
D70/MFP1:407:1 D70/MFP1:407:1 D70/MFP1:407:1	21 22 23	M	16 17 18	347142 691170 967410	9549.70 13193.43 15770.99
D701MFP1:407:1 D701MFP1:407:1 D701MEP1:407:1	25 25 26	ii ii	18 18 20	1273032 1808712 2174891 2231042	26125.00 24435.36 24232.76
D70:MFP1:407:1 D70:MFP1:407:1 D70:MFP1:407:1	28 29 30	M M	22 23 23	233042 1917150 3825794 5832927 7134799 8970940 15417447	12440.14 20038.27 30537.88
D701MFP1:407:1 D701MFP1:407:1 D701MFP1:407:1	31 32 33	N.	24 25 25	7134799 8970940 15417447	30835.24 30610.44 44146.80
D7CYMFP1:407:1 D7CYMFP1:407:1 D7CYMFP1:407:1	24 25 26 27	M M	25 27 29 28	320664466 95253546	92481.63 627824.85 127325.65 143669.53
D7CYMFP1:407:1 D7CYMFP1:407:1 D7CYMFP1:407:1	38 39 40	M M M	26 27 27	147893373	73835.00 268608.61 230664.77
D7CYMFP1:407:1 D7CYMFP1:407:1 D7CYMFP1:407:1 D7CYMFP1:407:2	41 45 45			120531606 822630623 1728774610 1728774610 1220760 1220800 1421700 1537704 1480000 257615 770748 260502 1537016 1537016 1537018 260502 153716 1537018 260502 153716 260502 260502 153716 260502 153716 260502 153716 260502 153716 260502 153716 260502 153716 260502 153716 260502 153716 260502 153716 260502	100 100
D707MFP1407-2 D707MFP1407-2 D707MFP1407-2	7 8	ii ii	8 6 5	1220860 1401760 758703	189485.04 258054.61 235637.11
D701MFP1:407:2 D701MFP1:407:2 D701MFP1:407:2	10 11 12	M	6 11 13	1065464 489090 357615	287849.24 37110.17 17707.36
D701MFP14072 D701MFP14072 D701MEP14072 D701MEP14072	14 15 15	ii ii	19 12 12	285392 1183668 1022078	21201.91 10234.69 72863.97 111245.08
D701MFP1:407:2 D701MFP1:407:2 D701MFP1:407:2	17 18 19	M M	11 13 15	1383192 2062702 1128203	104107.94 98874.99 37819.04
D701MFP1:407:2 D701MFP1:407:2 D701MFP1:407:2	20 21 22	M	22 18 21	2302588 885217 1662364	1407.63 14627.13 12948.68
D701MFP14072 D701MFP14072 D701MFP14072	24 25 26	N N	19 19 19	3450348 4524387 5820782	27391.17 44586.32 53520.84 36742.71
D701MFP14072 D701MFP14072 D701MFP14072	27 28 29	M M M	20 25 24	2002/103 1235200 1835217 1665264 2720220 3463047 4573702 6150263 4221006 1021003 1235203 22466637 4521006 1532233 4521006 1532233 22466637 4521006 23466637 4521006 23466637	60006.33 15391.63 38248.53
D70/MFP1407-2 D70/MFP1407-2 D70/MFP1407-2	30 31 32	M	25 25 26	15925351 19322763 23459637	56700.79 59647.42 64469.86
D701MFP1:407:2 D701MFP1:407:2 D701MFP1:407:2 D701MFP1:407:2	34 35 36	N N	26 26 27 29	90748252 907487529 7651529049	219414.67 1457286.18 221879.98
D70/MFP1:407:2 D70/MFP1:407:2 D70/MFP1:407:2	37 38 39	M M	29 27 27	765167529 191529049 198881511 71405834 359019201	281169.70 147576.72 648249.01
D701MFP1:407:2 D701MFP1:407:2 D701MFP1:407:2	40 41 45		28 27 42	289-1900 1909	500199.38 3081929.73 251719.99
D7CHMP14074 D7CHMP14074 D7CHMP14074 D7CHMP14074	6 7	M M	7 7	271450 1303684 1406280	471296.47 102956.35 262973.24 369429.66
D70/MFP1:407:4 D70/MFP1:407:4 D70/MFP1:407:4	10 11	M	6 8 12	656028 829048 487217	169681.63 147322.75 30086.96
D701MFP1:407-4 D701MFP1:407-4 D701MFP1:407-4	12 13 14	M	11 12 10	381400 838538 312087	29966.35 57193.56 30078.08
D701MFP1:407:4 D701MFP1:407:4 D701MFP1:407:4	16 17 18	M M M	12 14 14	787091 1141843 1932332	49024.31 49675.26 79596.63
D70/MFP1:407:4 D70/MFP1:407:4 D70/MFP1:407:4	19 20 21	M	15 21 17	1057751 2290988 889065	34858.71 19973.79 17026.65
D7CYMFP14074 D7CYMFP14074 D7CYMFP14074	22 23 24 25	N N	20 20 20	2691120 2374919 4173658	30287.65 37401.13 38606.67
D707MFP1:407:4 D707MFP1:407:4 D707MFP1:407:4	26 27 28	M	22 21 24	5801538 5761298 4855956	40825.86 42832.78 19524.02
D7CHMFP14074 D7CHMFP14074 D7CHMFP14074	29 30 31	M M	24 25 25	9891792 14896482 1861528	37512.30 46738.39 56146.29
D701MFP14074 D701MFP14074 D701MFP14074	33 34 35	ii ii	27 26 27	14996482 18615128 22176886 42101260 87750867 754415111	87601.41 208309.90 1422753.62
D70/MFP1:407:4 D70/MFP1:407:4 D70/MFP1:407:4	36 37 38	M	29 29 27	190954267 197721112 70541511 337484880	2019:09:09 (0) 4227251.62 221565.24 225565.05 1321764.34 568263.47 3955070.77 345534.64 428791.40 84738.69 221641.33 222504.17 164274.35 38660.78 24303.05 44500.78
D701MFP14074 D701MFP14074 D701MFP14074	40 41 45	i i	28 28 27 42	287227774 1704342574 3783272892 3783272892	488674.07 3065070.77 345384.64
D70:MFP1:407:4 D70:MFP1:407:6 D70:MFP1:407:6	45 6 7	M M	39 5 7	3783272892 249397 1225425	458781.40 84738.99 221841.33
D701MFP1:407:6 D701MFP1:407:6 D701MFP1:407:6	10	M H	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	24/2007 1225425 1284645 574536 854221 465665 379586 773786 908016 108816 125566 1334433 200100 1088055 223568 2334433 200100 1088055 223167	292550.16 122814.71 164274.35
D725MFP1:407:6 D725MFP1:407:6 D725MFP1:407:6	12 13 14	ii ii	12 13 11	376998 775785 299036	24330.35 41950.65 23806.98
D7CYMFP1:407:6 D7CYMFP1:407:6 D7CYMFP1:407:6	15 16 17	M M M	14 12 14	1089816 825998 1304433	41950.65 23806.58 49923.72 49928.96 57224.28
D701MFP1:407:6 D701MFP1:407:6 D701MFP1:407:6	19 20	ii ii	15 15 21	109805 109805 2233197	37154.90 18272.58
D7CYMFP1:407:6 D7CYMFP1:407:6 D7CYMFP1:407:6	22 23 24	M M	20 20 19	841374 1591039 2600495 3246163	49223-96 5724-28 83346-37 37154-90 88272-28 54471-80 57237-32 20275-21 20473-24 20473-24 20473-24 20473-51 48164-52 17742-06 20535-15 4202-48
D7CHMFP1:407:6 D7CHMFP1:407:6 D7CHMFP1:407:6	25 26 27	M	20 22 21	109 (109 200 (465 204 (463 208 (463 54 (400) 54 (400) 44 (400) 14 (47 (47) 14 (47) 14 (47)	35138.24 38493.90 48164.52
D7C/MFP1:407:6 D7C/MFP1:407:6 D7C/MFP1:407:6	29 30 31	ii ii	24 25 25 25	9329901 14279728 17659652	36535.15 42899.48 55646.06
D7CYMFP1:407:6 D7CYMFP1:407:6 D7CYMFP1:407:6	32 33 34	M	26 27 26	176278128 17658652 20750895 41503478 82297431	50743.11 87103.08 203077.45
D7CHMFP1:407:6 D7CHMFP1:407:6 D7CHMFP1:407:6 D7CHMFP1:407:6	35 36 37			179593168 18892909 67625363	1417096.06 216241.34 262762.00 543117.58
D70YMFP1:407:6 D70YMFP1:407:6 D70YMFP1:407:6	39 40 41	M M	28 28 27	339606627	598968.33 469969.02 2976361.50
D701MFP1:407:6 D701MFP1:407:6 D701MFP1:407:7	45 45	, and the second	42 39 5	3627684805 3627684805 205587	235129.42 444136.89 63775.97
D701MFP1:407:7 D701MFP1:407:7 D701MFP1:407:7		ii ii	7	1022961 466077 729765	186335.04 83551.75 122758.20
D70/MFP1:407:7 D70/MFP1:407:7 D70/MFP1:407:7	11 12 13	M	11 12 15	462947 319741 656207	32899.52 18718.67 23085.11
D701MFP1:407:7 D701MFP1:407:7 D701MFP1:407:7	14 15 16	M	12 15 13	243754 898038 659853	15014.81 29209.23 34510.21
D7CYMFP1:407:7 D7CYMFP1:407:7 D7CYMFP1:407:7	18 19 20	ii ii	14 16 20	######################################	70493.25 23809.89 18370.09
D707MFP1:407:7 D707MFP1:407:7 D707MFP1:407:7	21 22 23	M M M	19 21 21	747798 1382396 2311779	10014.32 11855.43 18300.37
D701MFP1407.7 D701MFP1407.7 D701MFP1407.7	24 25 26 27	M M	21 21 22 22	288905 3631602 4933054 5029075	24510.57 31787.92 31931.34 35432.75
D7CYMFP1:407:7 D7CYMFP1:407:7 D7CYMFP1:407:7	28 29 30	N N	25 24 26	383-9602 492-3064 5022025 4-0024 4-2 80554-47 50066652 191-38570 391 12302 71301 1248 71301 1248 114-6023-48 114-6023-48 114-6023-48 151-5036602 151-163806	13194.73 32725.43 33783.03
U/L/MFP1:407:7 D7L/MFP1:407:7 D7L/MFP1:407:7	31 32 33	M	25 26 27	16086852 19139570 38112302	49983.11 49041.44 75706.47
D7CYMFP1:407:7 D7CYMFP1:407:7 D7CYMFP1:407:7	25 36 37	M M	27 29 29	713011248 176475497 184956348	1370232.47 205243.36 252111.76
D7CYMFP1:407:7 D7CYMFP1:407:7 D7CYMFP1:407:7	38 39 40	M	27 28 28	61987847 314586851 255360693	121635.33 545450.93 436109.44
U/L/MFP1:407:7 D7C/MFP1:407:7 D7C/MFP1:407:7 D7C/MFP1:407:8	41 45 45	M I D	27 42 39 8	1614168389 3529971370 3529971370 1764195	2930440.12 231103.41 433498.45 47760.61
D7CYMFP1:407:6 D7CYMFP1:407:6 D7CYMFP1:407:6	7 8 9	M M	2	925974 915322 403636	128895.38 149765.38 60055.93
D7CYMFP1:407:8 D7CYMFP1:407:8 D7CYMFP1:407:8	10 11 12	M M M	19	1200971370 220971370 179132 403033 403033 403033 403033 404033 40403 404	100 100
D7CYMFP14078 D7CYMFP14078 D7CYMFP14076	13 14 15	M M	16 12 16	567511 215562 788635 587064	14401.43 12232.59 20201.13
D7CYMFP1:407:8 D7CYMFP1:407:8 D7CYMFP1:407:8	17 18 19	ii M	14 15 16	891656 1519547 811009	23291.49 51515.18 20502.71
			AN 4104	1772075 670467 1261559 2077326	10667.93 7933.65 9193.84 14270.71