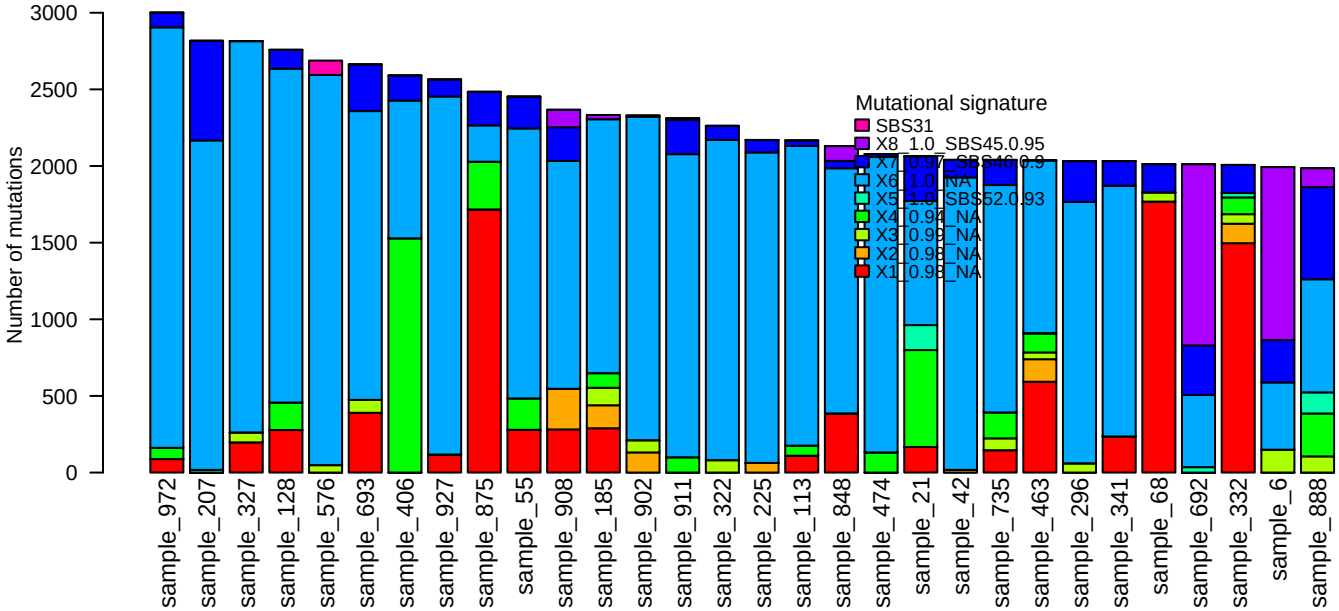
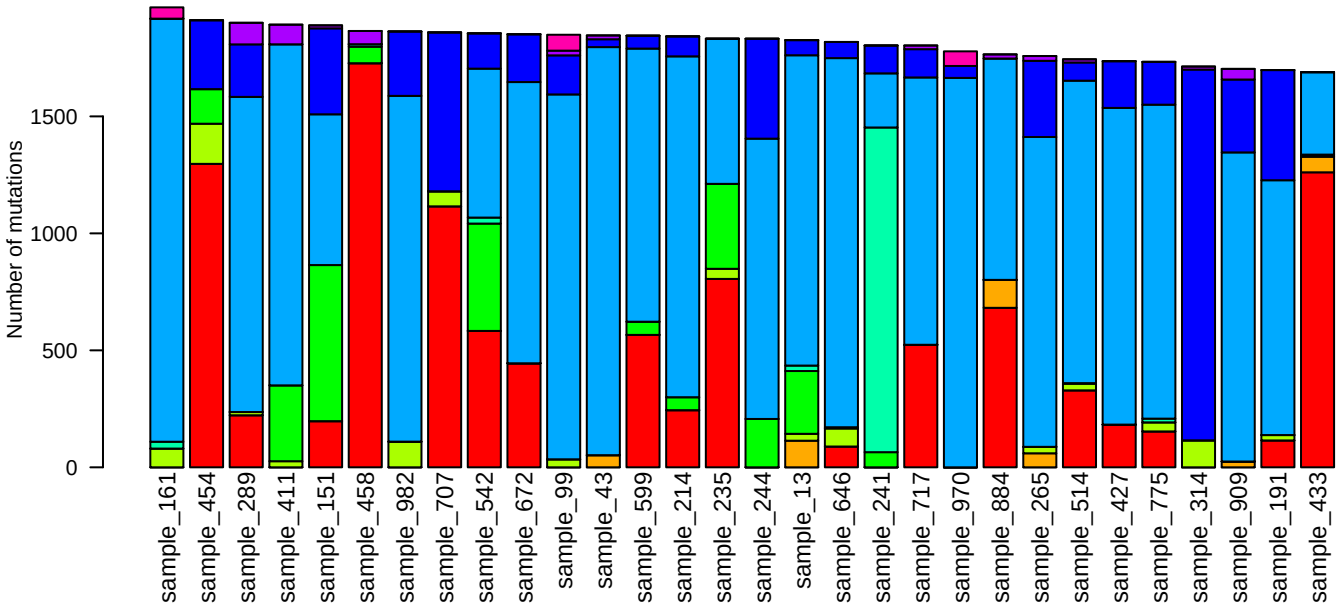

Number of mutations
3000
2500
2000
1500
1000
500
0
Mutational signature
SBS31
X8_1.0_SBS45.0.95
X7_0.97_SBS40.0.9
X6_1.0_NA
X5_1.0_SBS52.0.93
X4_0.94_NA
X3_0.99_NA
X2_0.98_NA
X1_0.98_NA
sample_972
sample_207
sample_327
sample_128
sample_576
sample_693
sample_406
sample_927
sample_875
sample_55
sample_908
sample_185
sample_902
sample_911
sample_322
sample_225
sample_113
sample_848
sample_474
sample_21
sample_42
sample_735
sample_463
sample_296
sample_341
sample_68
sample_692
sample_332
sample_6
sample_888


Number of mutations
1500
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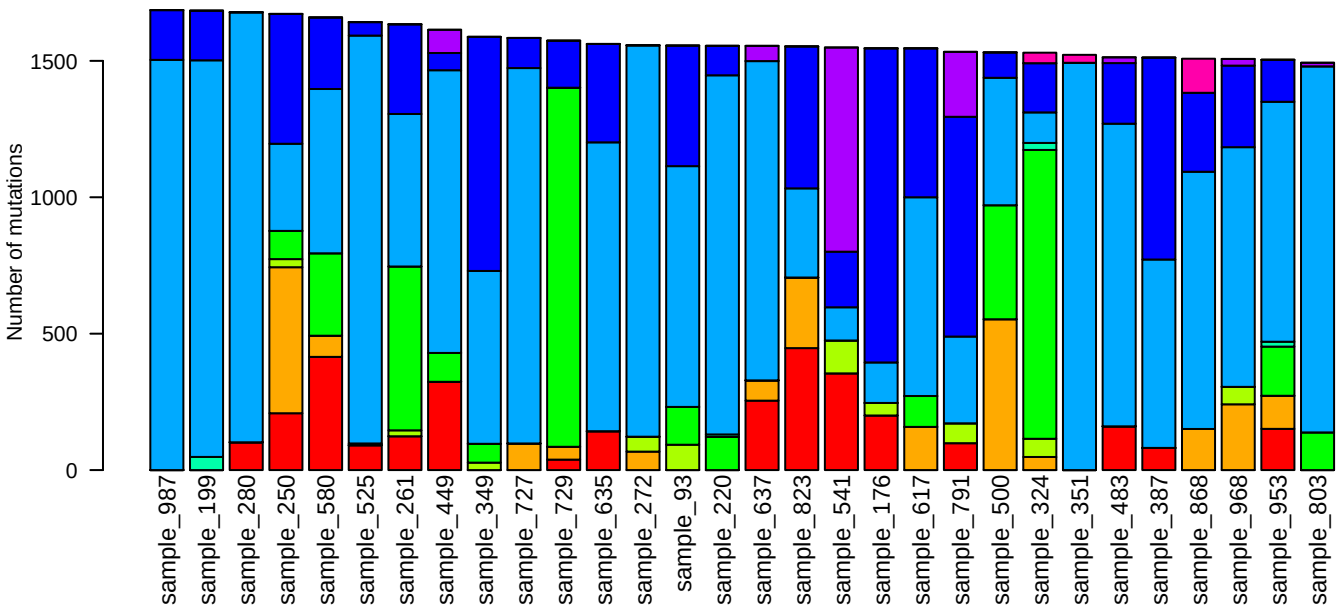
sample_161
sample_454
sample_289
sample_411
sample_151
sample_458
sample_982
sample_707
sample_542
sample_672
sample_99
sample_43
sample_599
sample_214
sample_235
sample_244
sample_13
sample_646
sample_241
sample_717
sample_970
sample_884
sample_265
sample_514
sample_427
sample_775
sample_314
sample_909
sample_191
sample_433


Number of mutations
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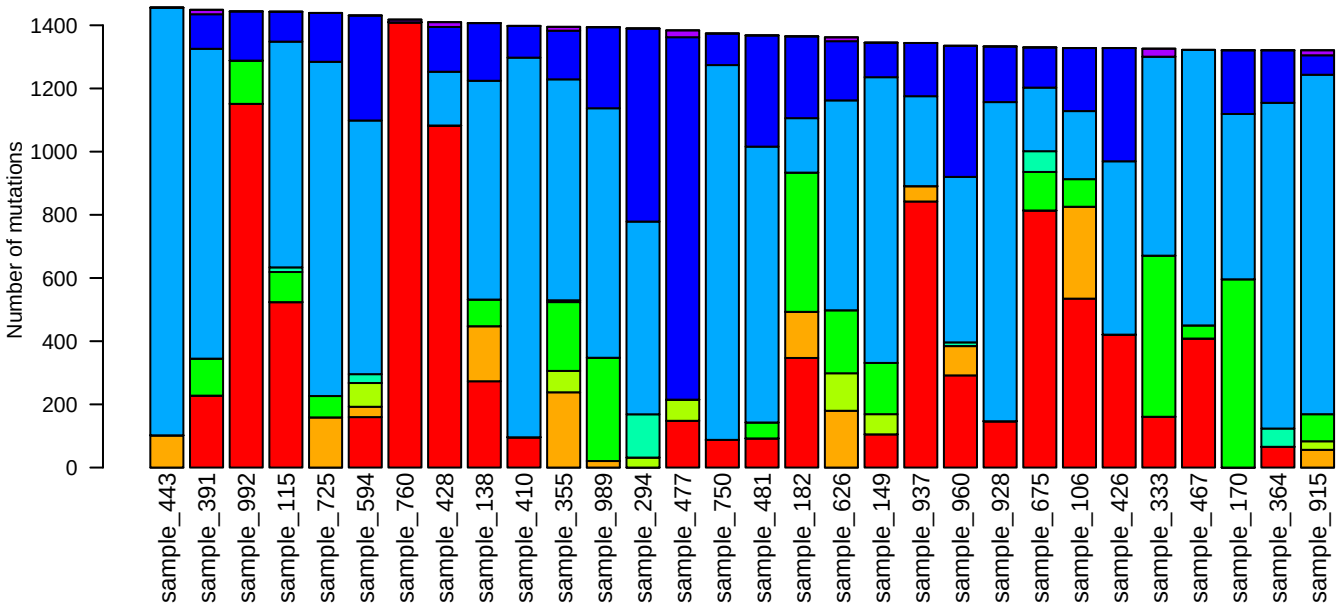
sample_199
sample_280
sample_250
sample_580
sample_525
sample_261
sample_449
sample_349
sample_727
sample_729
sample_635
sample_272
sample_93
sample_220
sample_637
sample_823
sample_541
sample_176
sample_617
sample_791
sample_500
sample_324
sample_351
sample_483
sample_387
sample_868
sample_968
sample_953
sample_803


Number of mutations
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1200
1400
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sample_391
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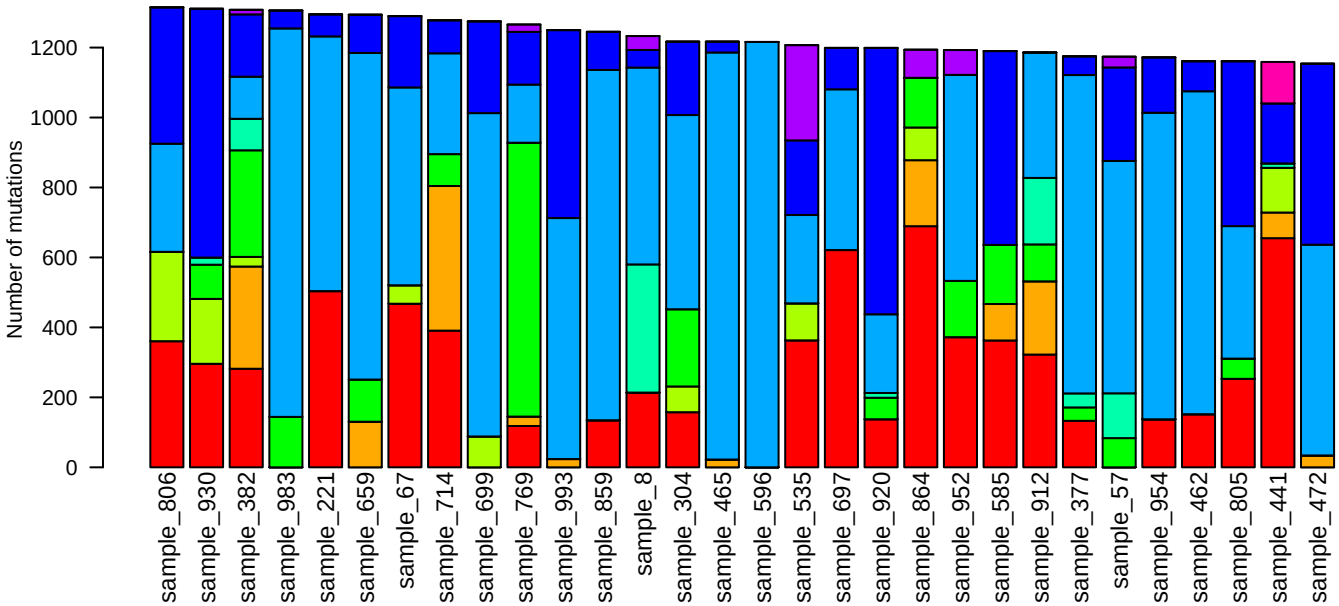
sample_115
sample_725
sample_594
sample_760
sample_428
sample_138
sample_410
sample_355
sample_989
sample_294
sample_477
sample_750
sample_481
sample_182
sample_626
sample_149
sample_937
sample_960
sample_928
sample_675
sample_106
sample_426
sample_333
sample_467
sample_170
sample_364
sample_915


Number of mutations
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200
400
600
800
1000
1200
sample_806
sample_930
sample_382
sample_983
sample_221
sample_659
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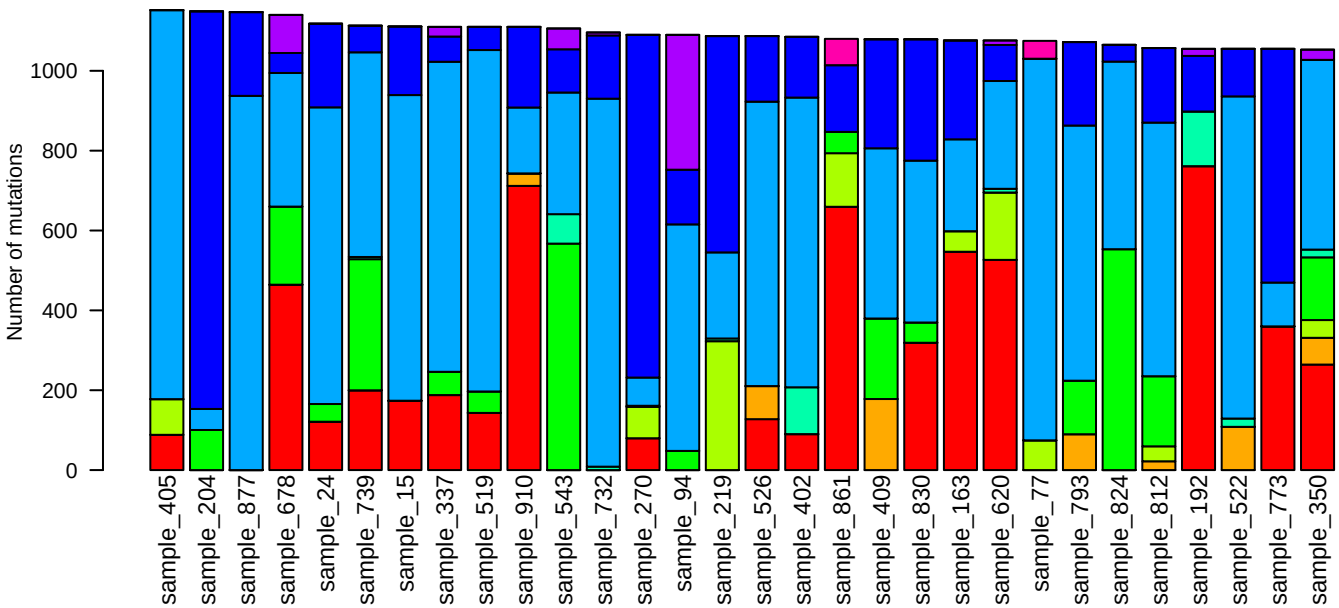
sample_993
sample_859
sample_8
sample_304
sample_465
sample_596
sample_535
sample_697
sample_920
sample_864
sample_952
sample_585
sample_912
sample_377
sample_57
sample_954
sample_462
sample_805
sample_441
sample_472


Number of mutations
0
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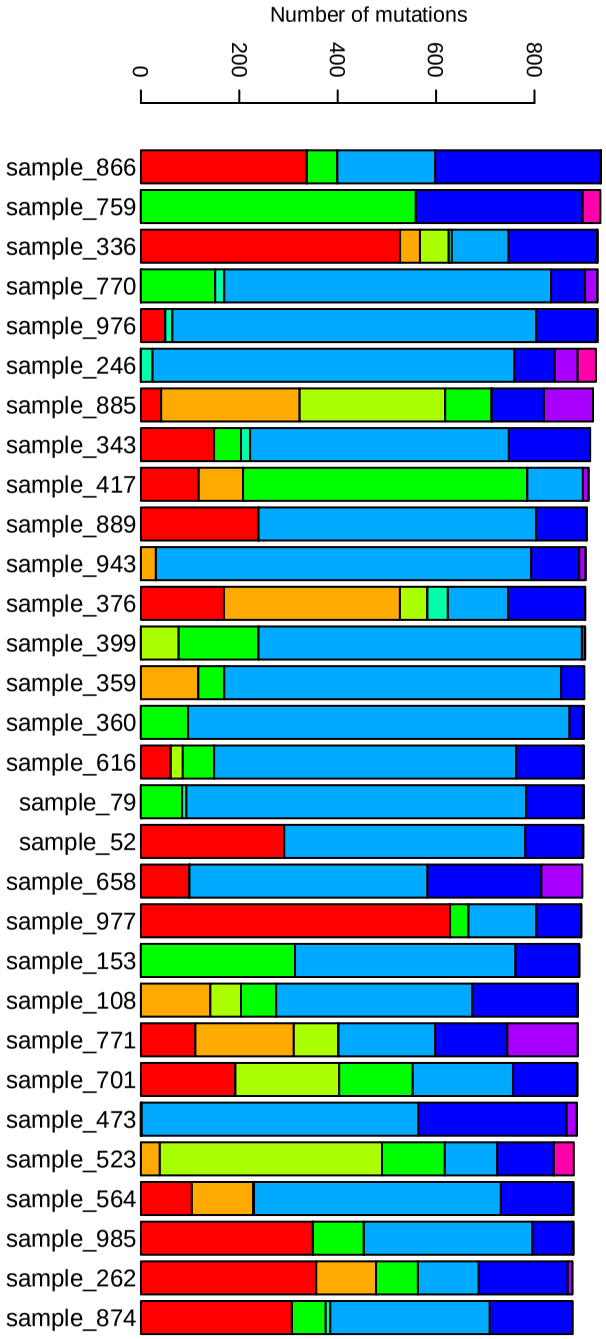
600
800
1000
sample_405
sample_204
sample_877
sample_678
sample_24
sample_739
sample_15
sample_337
sample_519
sample_910
sample_543
sample_732
sample_270
sample_94
sample_219
sample_526
sample_402
sample_861
sample_409
sample_830
sample_163
sample_620
sample_77
sample_793
sample_824
sample_812
sample_192
sample_522
sample_773
sample_350


Number of mutations
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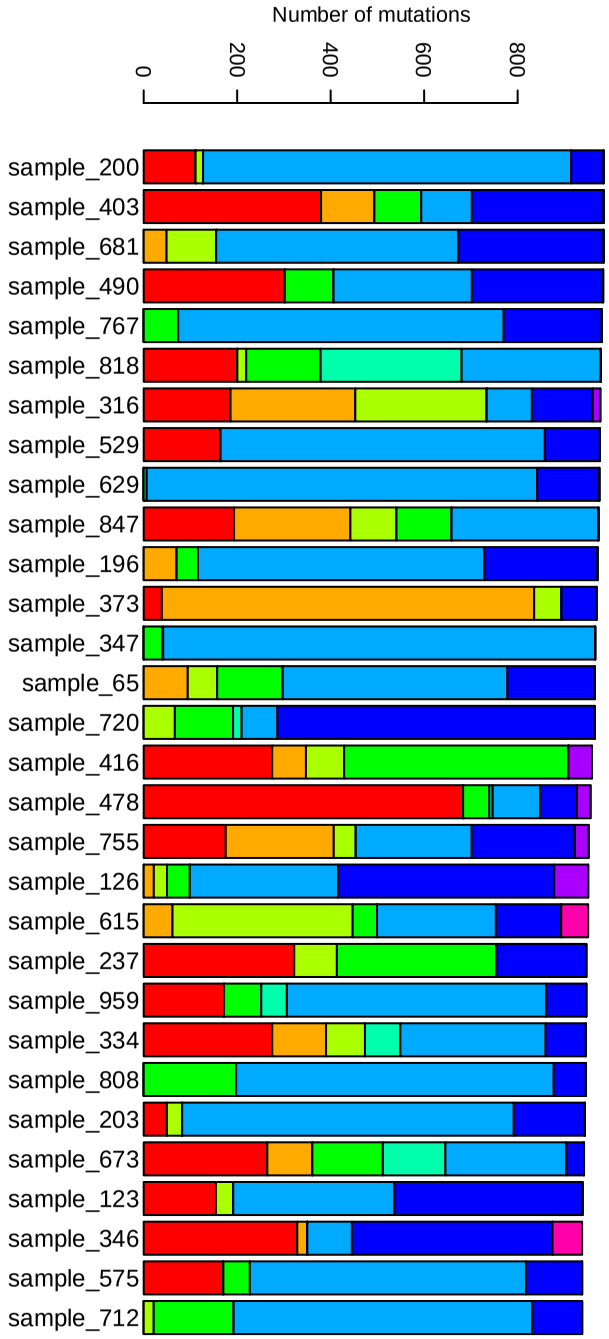
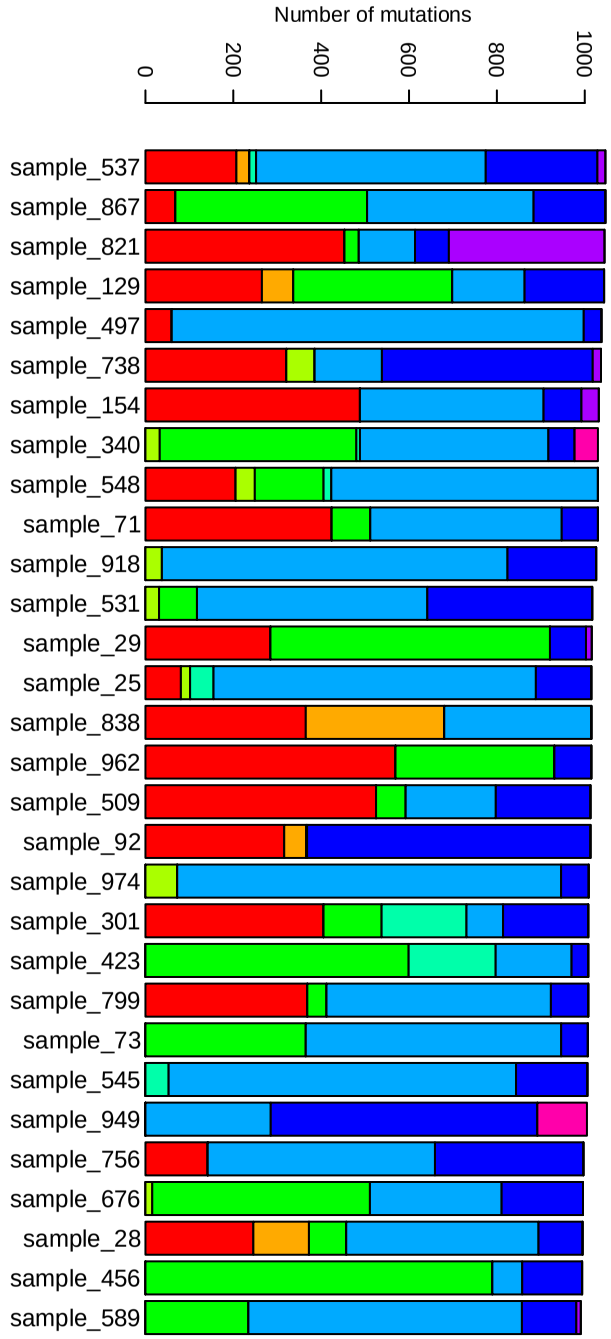
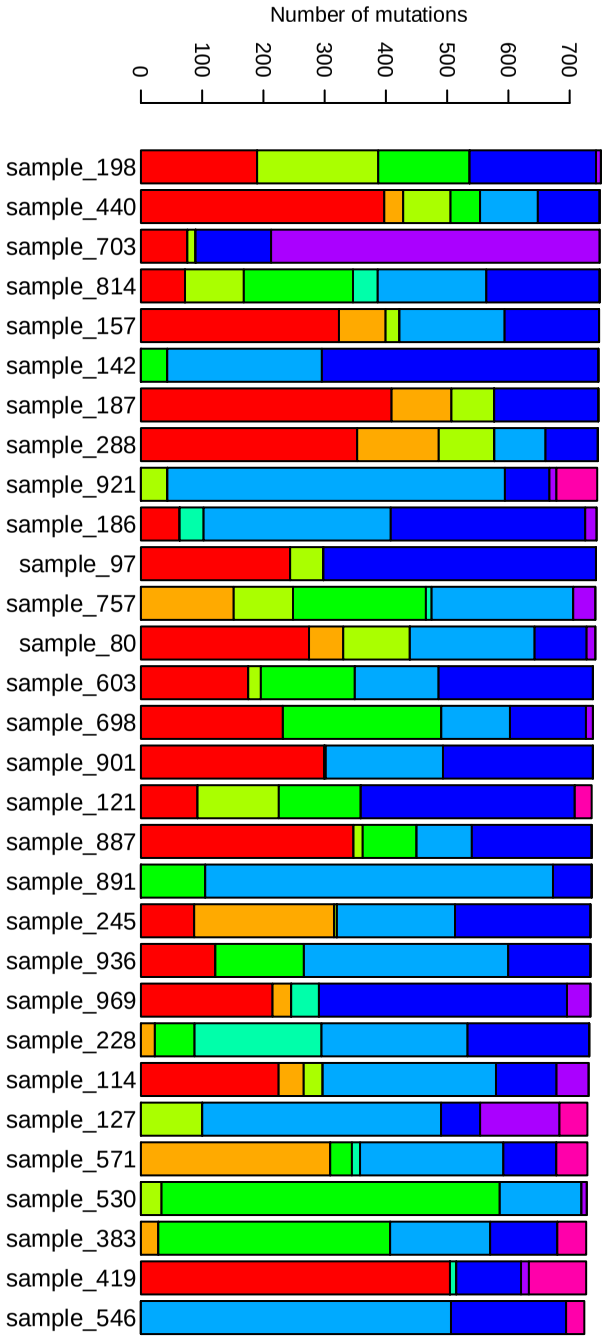
200
400
600
800
sample_866
sample_759
sample_336
sample_770
sample_976
sample_246
sample_885
sample_343
sample_417
sample_889
sample_943
sample_376
sample_399
sample_359
sample_360
sample_616
sample_79
sample_52
sample_658
sample_977
sample_153
sample_108
sample_771
sample_701
sample_473
sample_523
sample_564
sample_985
sample_262
sample_874


Number of mutations
0
200
400
600
800
sample_200
sample_403
sample_681
sample_490
sample_767
sample_818
sample_316
sample_529
sample_629
sample_847
sample_196
sample_373
sample_347
sample_65
sample_720
sample_416
sample_478
sample_755
sample_126
sample_615
sample_237
sample_959
sample_334
sample_808
sample_203
sample_673
sample_123
sample_346
sample_575
sample_712


Number of mutations
0
200
400
600
800
1000
sample_537
sample_867
sample_821
sample_129
sample_497
sample_738
sample_154
sample_340
sample_548
sample_71
sample_918
sample_531
sample_29
sample_25
sample_838
sample_962
sample_509
sample_92
sample_974
sample_301
sample_423
sample_799
sample_73
sample_545
sample_949
sample_756
sample_676
sample_28
sample_456
sample_589


Number of mutations
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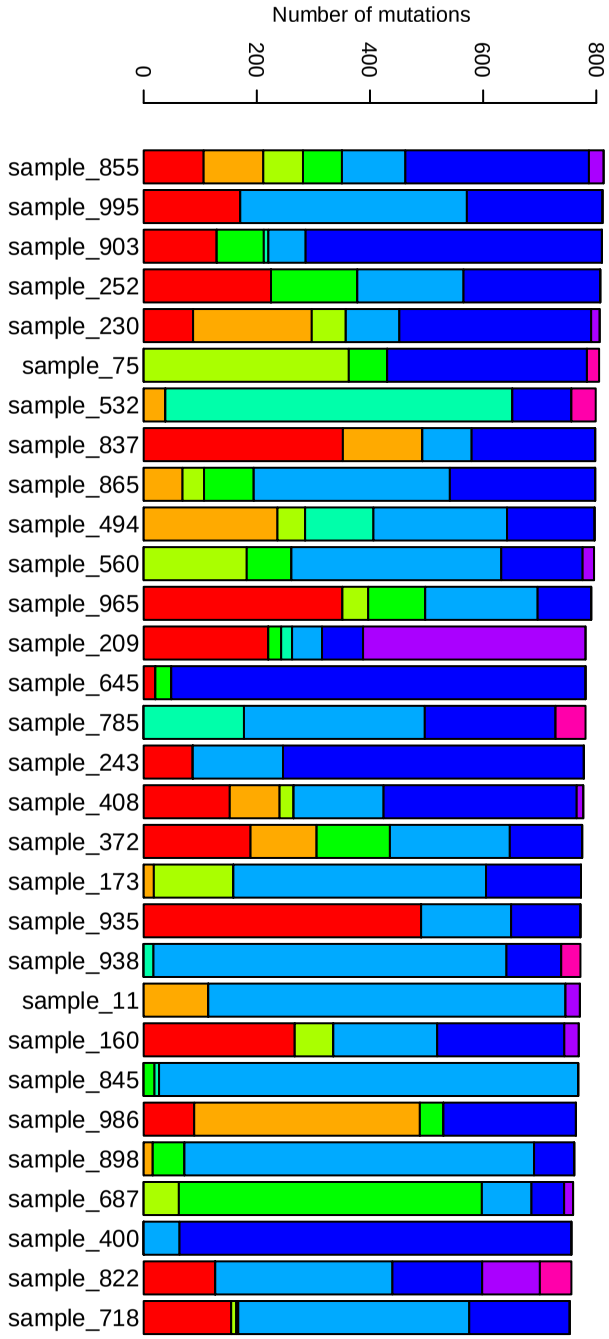
300
400
500
600
700
sample_198
sample_440
sample_703
sample_814
sample_157
sample_142
sample_187
sample_288
sample_921
sample_186
sample_97
sample_757
sample_80
sample_603
sample_698
sample_901
sample_121
sample_887
sample_891
sample_245
sample_936
sample_969
sample_228
sample_114
sample_127
sample_571
sample_530
sample_383
sample_419
sample_546


Number of mutations
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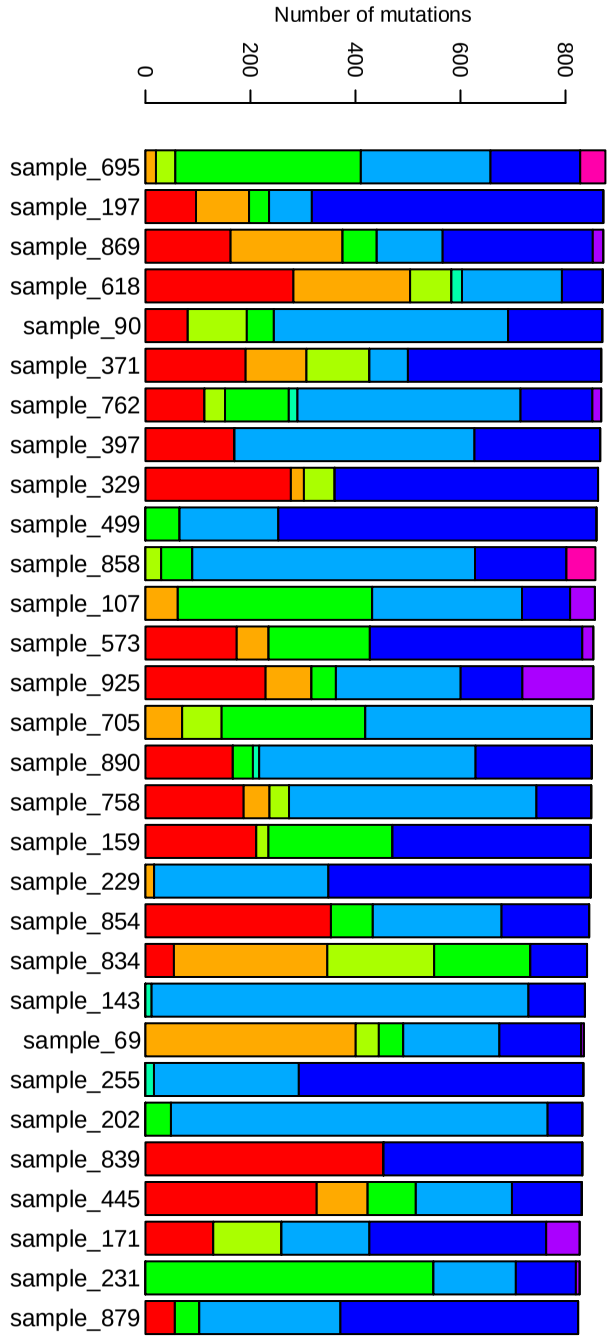
400
600
800
sample_855
sample_995
sample_903
sample_252
sample_230
sample_75
sample_532
sample_837
sample_865
sample_494
sample_560
sample_965
sample_209
sample_645
sample_785
sample_243
sample_408
sample_372
sample_173
sample_935
sample_938
sample_11
sample_160
sample_845
sample_986
sample_898
sample_687
sample_400
sample_822
sample_718


Number of mutations
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600
800
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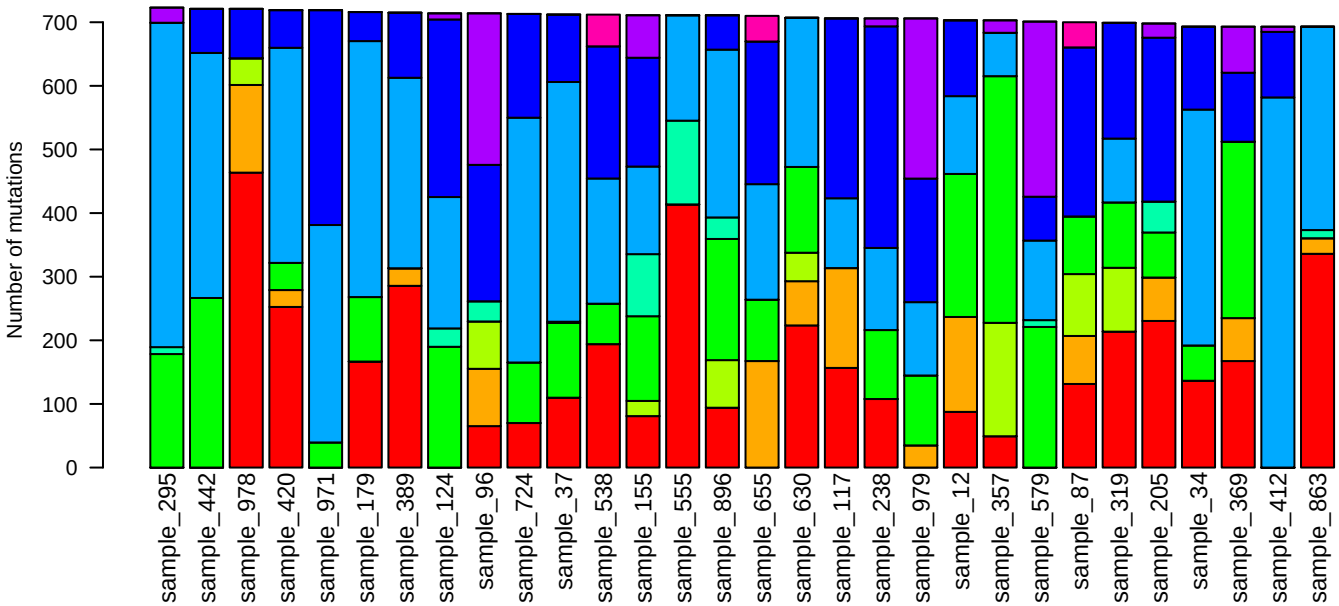
sample_197
sample_869
sample_618
sample_90
sample_371
sample_762
sample_397
sample_329
sample_499
sample_858
sample_107
sample_573
sample_925
sample_705
sample_890
sample_758
sample_159
sample_229
sample_854
sample_834
sample_143
sample_69
sample_255
sample_202
sample_839
sample_445
sample_171
sample_231
sample_879


Number of mutations
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100
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300
400
500
600
700
sample_295
sample_442
sample_978
sample_420
sample_971
sample_179
sample_389
sample_124
sample_96
sample_724
sample_37
sample_538
sample_155
sample_555
sample_896
sample_655
sample_630
sample_117
sample_238
sample_979
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sample_357
sample_579
sample_87
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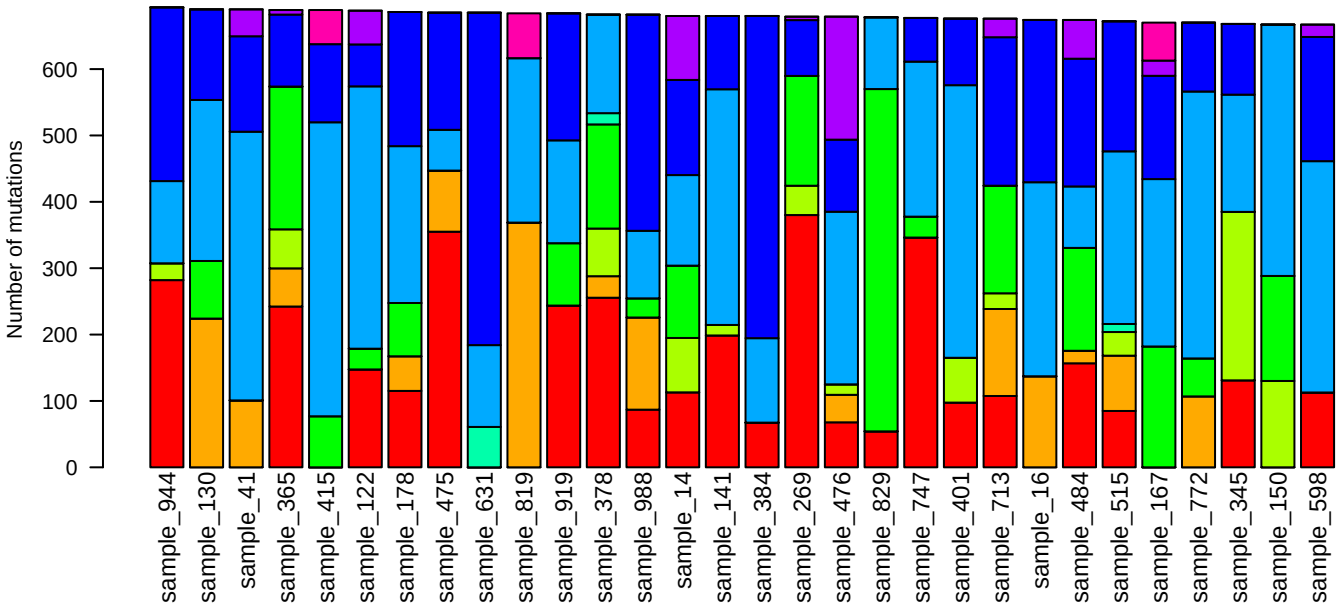
sample_205
sample_34
sample_369
sample_412
sample_863


Number of mutations
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500
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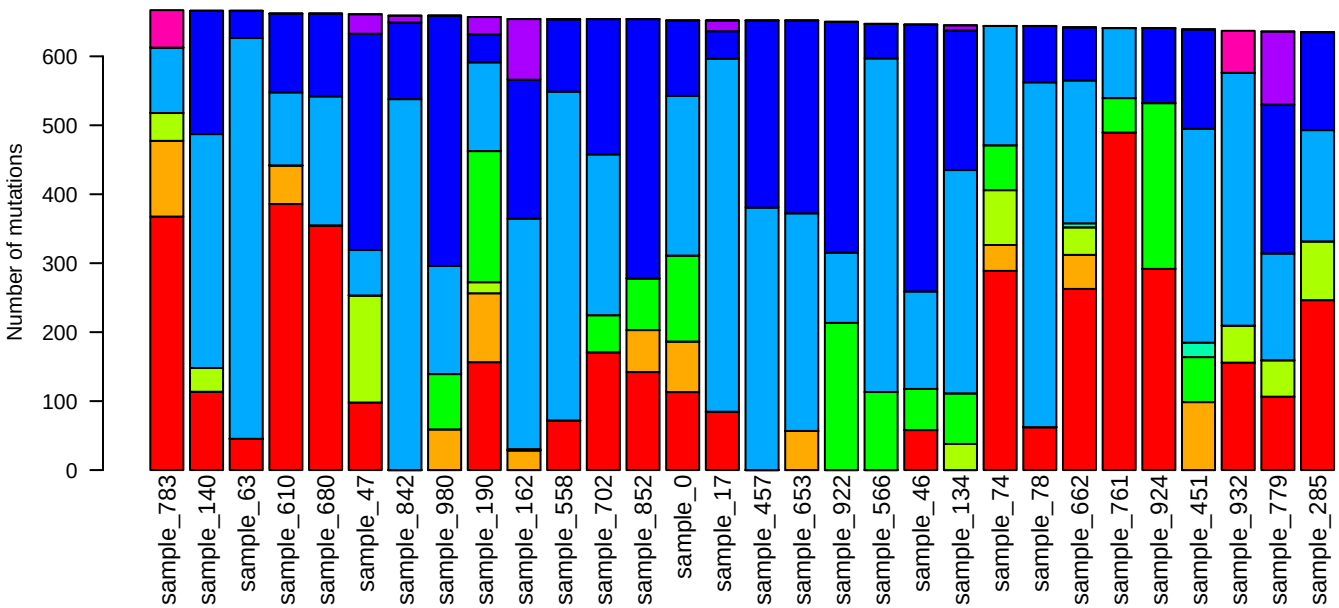
sample_415
sample_122
sample_178
sample_475
sample_631
sample_819
sample_919
sample_378
sample_988
sample_14
sample_141
sample_384
sample_269
sample_476
sample_829
sample_747
sample_401
sample_713
sample_16
sample_484
sample_515
sample_167
sample_772
sample_345
sample_150
sample_598


Number of mutations
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300
400
500
600
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sample_140
sample_63
sample_610
sample_680
sample_47
sample_842
sample_980
sample_190
sample_162
sample_558
sample_702
sample_852
sample_0
sample_17
sample_457
sample_653
sample_922
sample_566
sample_46
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sample_74
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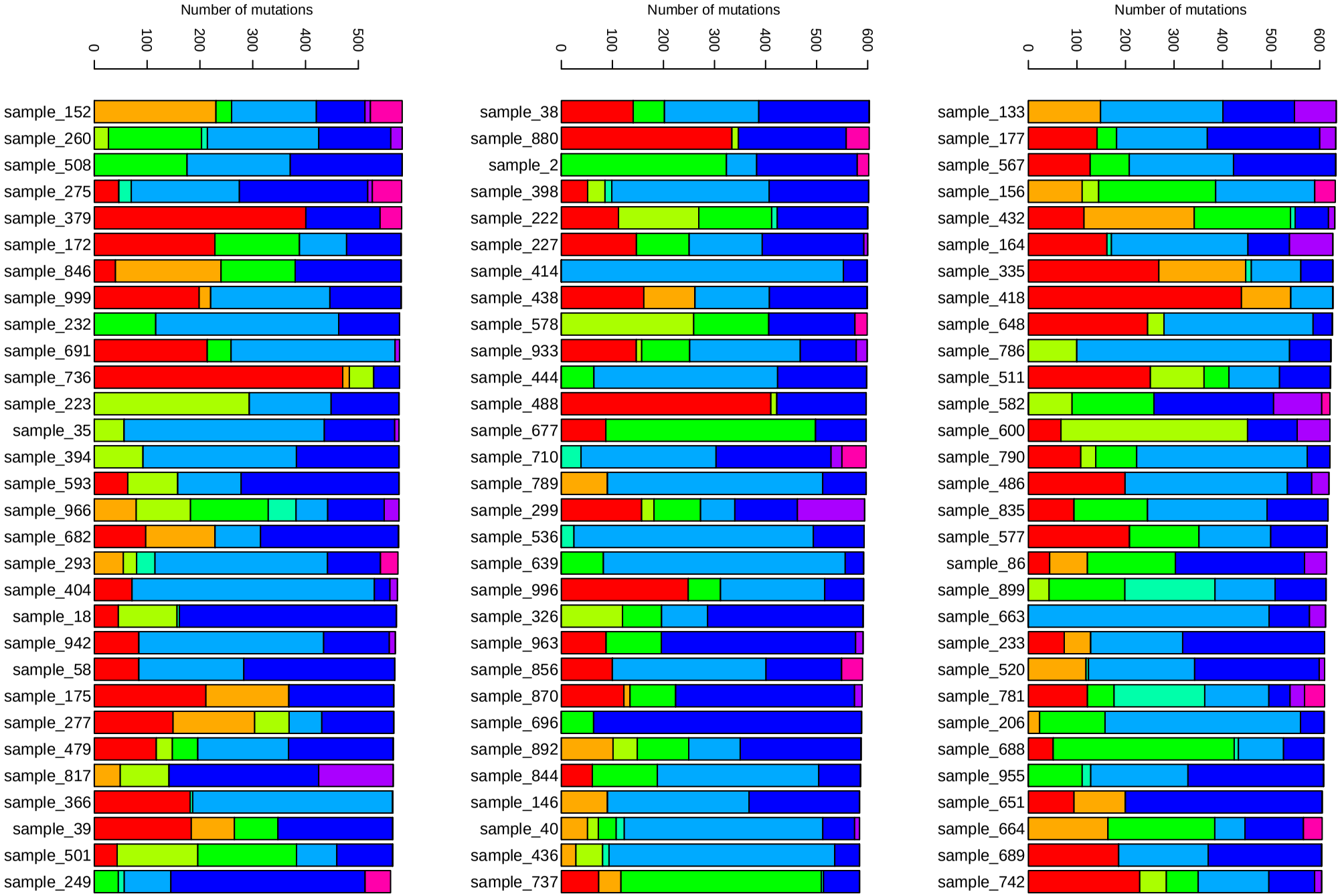
sample_662
sample_761
sample_924
sample_451
sample_932
sample_779
sample_285


Number of mutations
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300
400
500
sample_152
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sample_508
sample_275
sample_379
sample_172
sample_846
sample_999
sample_232
sample_691
sample_736
sample_223
sample_35
sample_394
sample_593
sample_966
sample_682
sample_293
sample_404
sample_18
sample_942
sample_58
sample_175
sample_277
sample_479
sample_817
sample_366
sample_39
sample_501
sample_249
Number of mutations
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300
400
500
600
sample_38
sample_880
sample_2
sample_398
sample_222
sample_227
sample_414
sample_438
sample_578
sample_933
sample_444
sample_488
sample_677
sample_710
sample_789
sample_299
sample_536
sample_639
sample_996
sample_326
sample_963
sample_856
sample_870
sample_696
sample_892
sample_844
sample_146
sample_40
sample_436
sample_737
Number of mutations
0
100
200
300
400
500
600
sample_133
sample_177
sample_567
sample_156
sample_432
sample_164
sample_335
sample_418
sample_648
sample_786
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sample_577
sample_86
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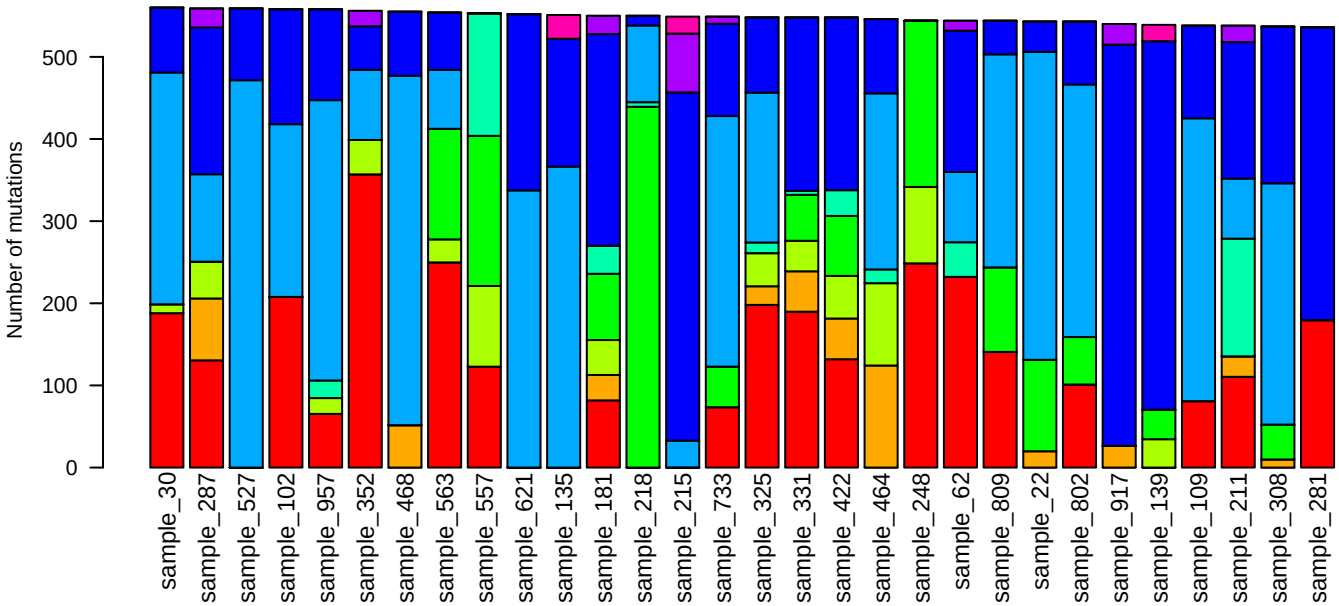
sample_742


Number of mutations
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500
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sample_102
sample_957
sample_352
sample_468
sample_563
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sample_422
sample_464
sample_248
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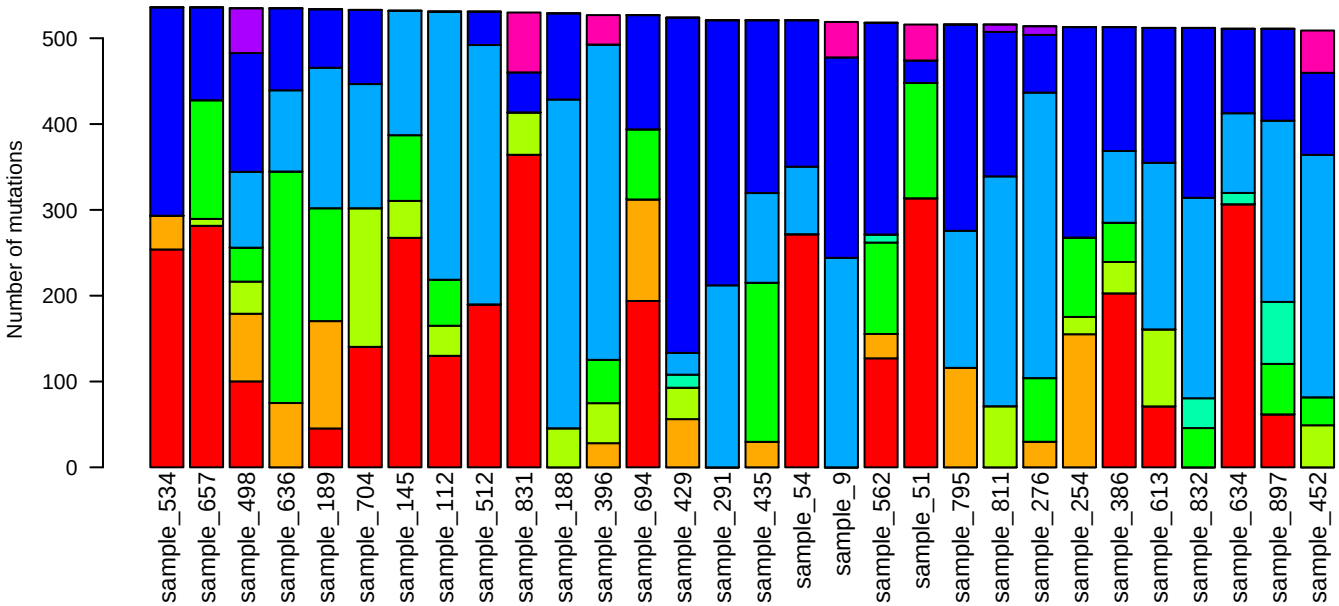
sample_809
sample_22
sample_802
sample_917
sample_139
sample_109
sample_211
sample_308
sample_281


Number of mutations
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300
400
500
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sample_657
sample_498
sample_636
sample_189
sample_704
sample_145
sample_112
sample_512
sample_831
sample_188
sample_396
sample_694
sample_429
sample_291
sample_435
sample_54
sample_9
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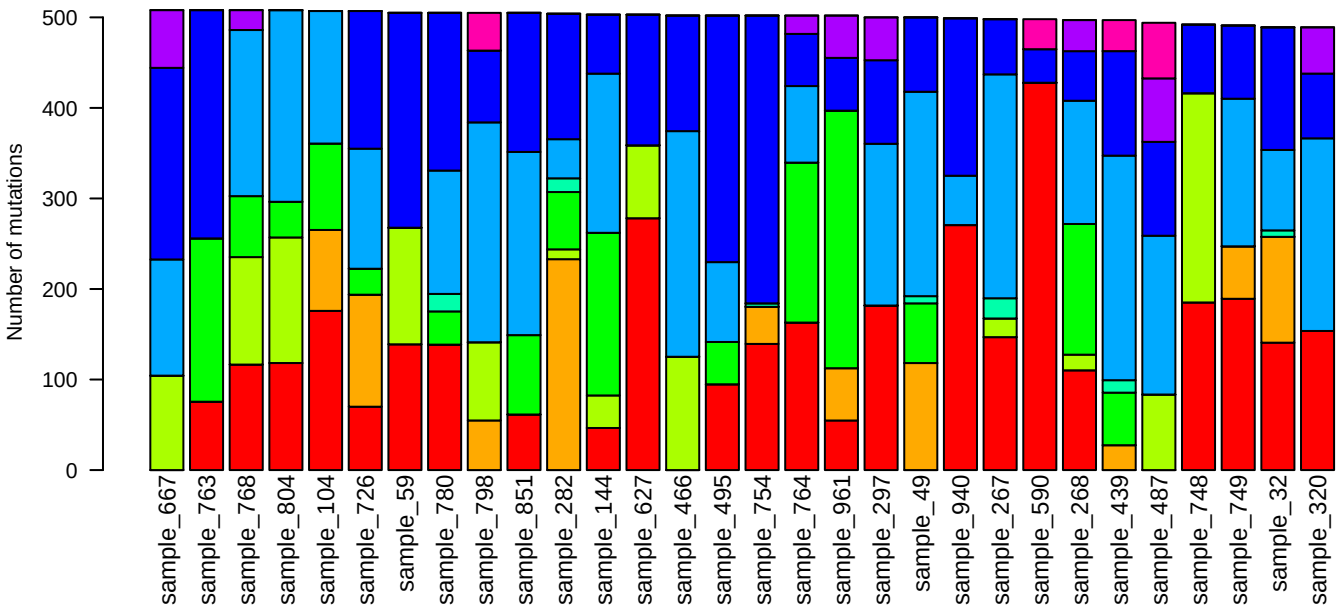
sample_897
sample_452


Number of mutations
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500
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sample_768
sample_804
sample_104
sample_726
sample_59
sample_780
sample_798
sample_851
sample_282
sample_144
sample_627
sample_466
sample_495
sample_754
sample_764
sample_961
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sample_590
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sample_748
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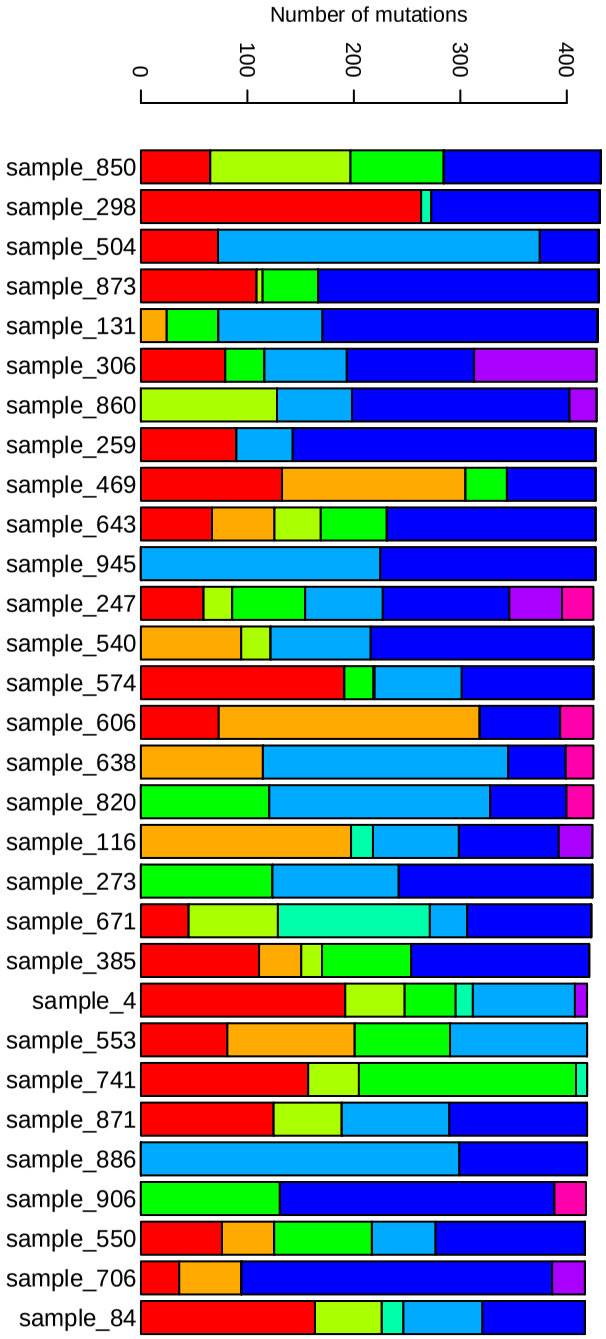
sample_32
sample_320


Number of mutations
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300
400
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sample_259
sample_469
sample_643
sample_945
sample_247
sample_540
sample_574
sample_606
sample_638
sample_820
sample_116
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sample_886
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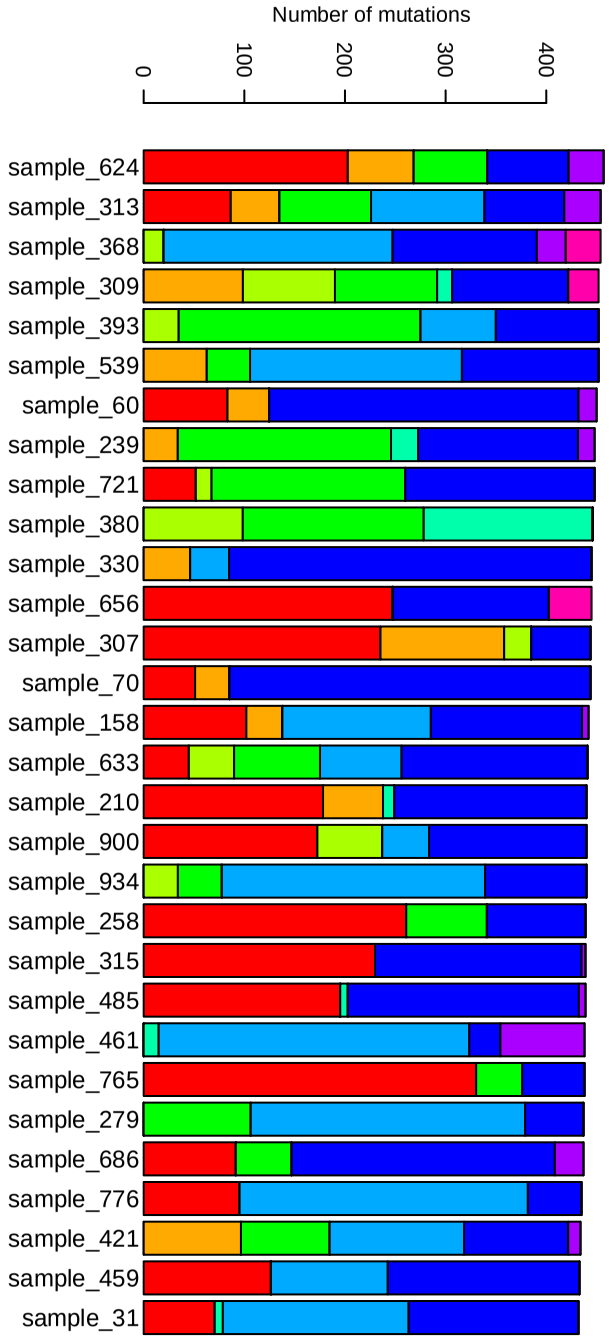
sample_84


Number of mutations
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300
400
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sample_368
sample_309
sample_393
sample_539
sample_60
sample_239
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sample_900
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sample_686
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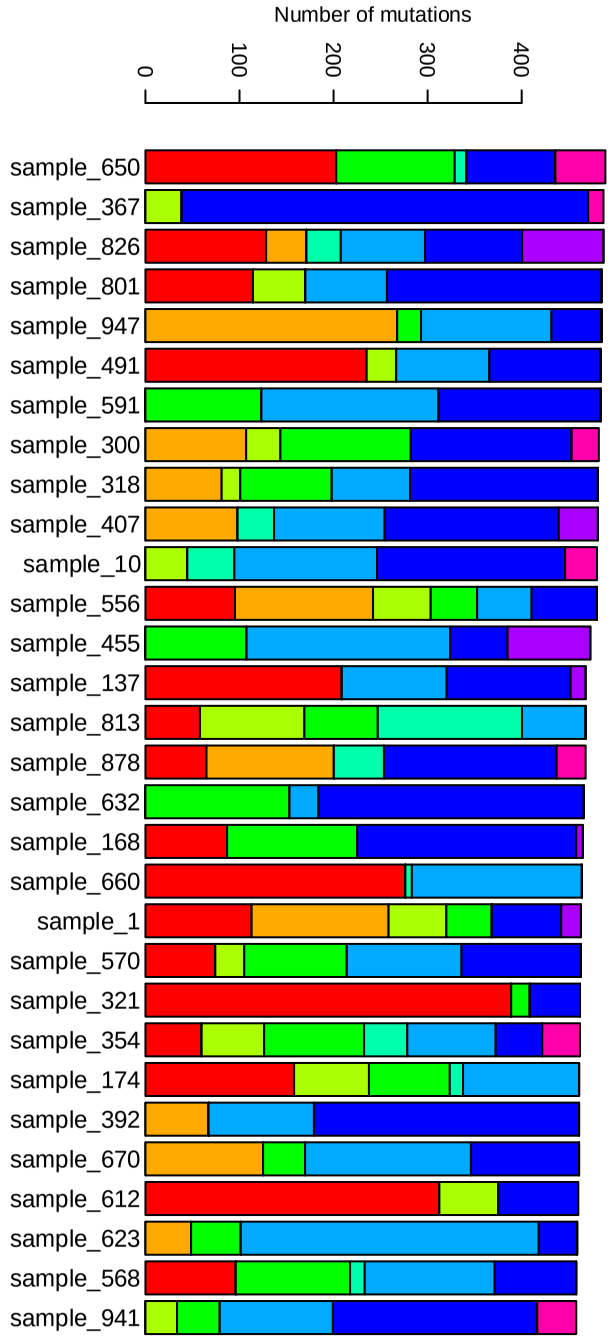
sample_459
sample_31


Number of mutations
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300
400
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sample_367
sample_826
sample_801
sample_947
sample_491
sample_591
sample_300
sample_318
sample_407
sample_10
sample_556
sample_455
sample_137
sample_813
sample_878
sample_632
sample_168
sample_660
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sample_392
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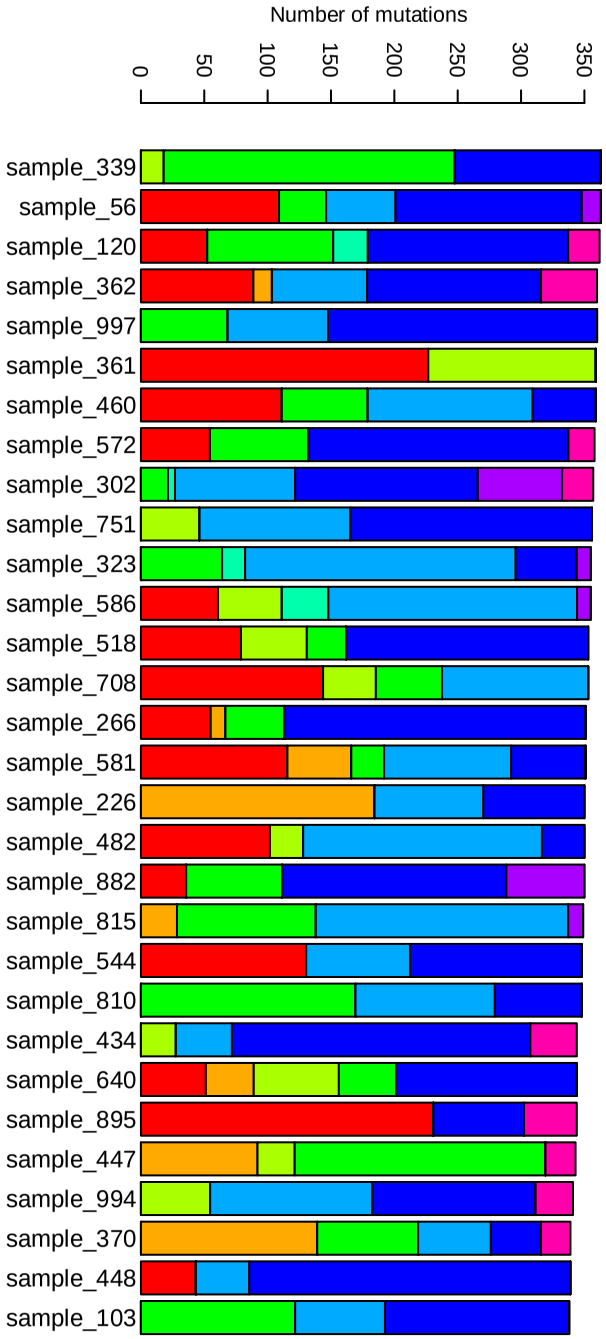
sample_568
sample_941


Number of mutations
0
50
100
150
200
250
300
350
sample_339
sample_56
sample_120
sample_362
sample_997
sample_361
sample_460
sample_572
sample_302
sample_751
sample_323
sample_586
sample_518
sample_708
sample_266
sample_581
sample_226
sample_482
sample_882
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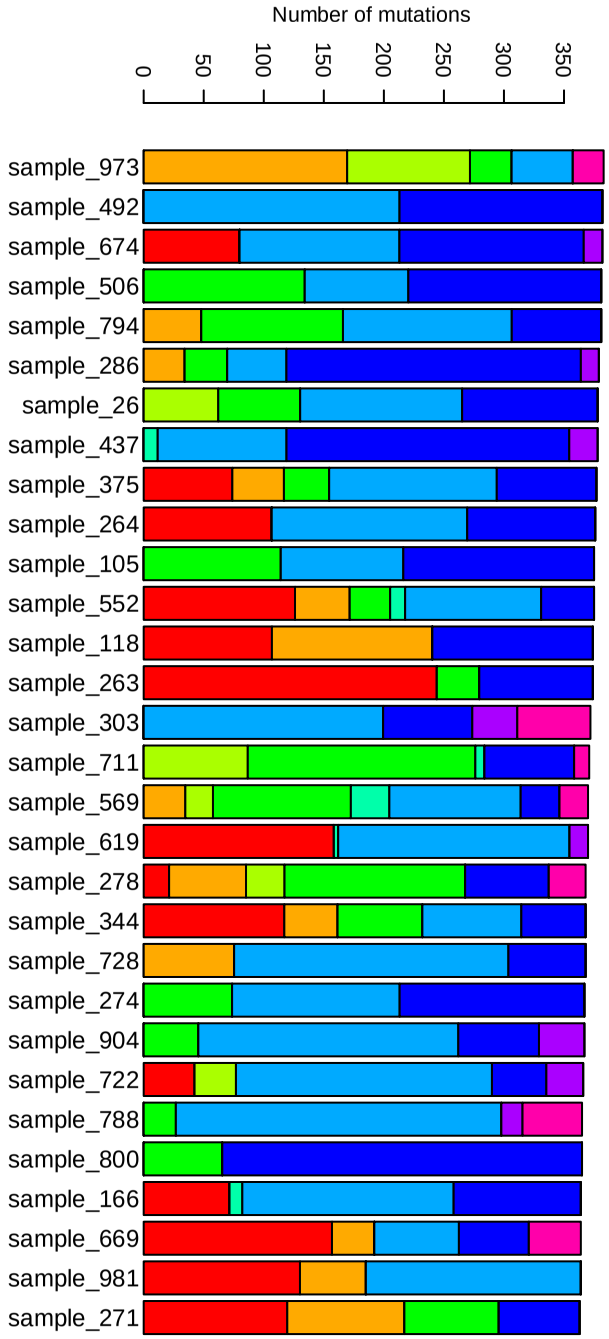
sample_370
sample_448
sample_103


Number of mutations
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100
150
200
250
300
350
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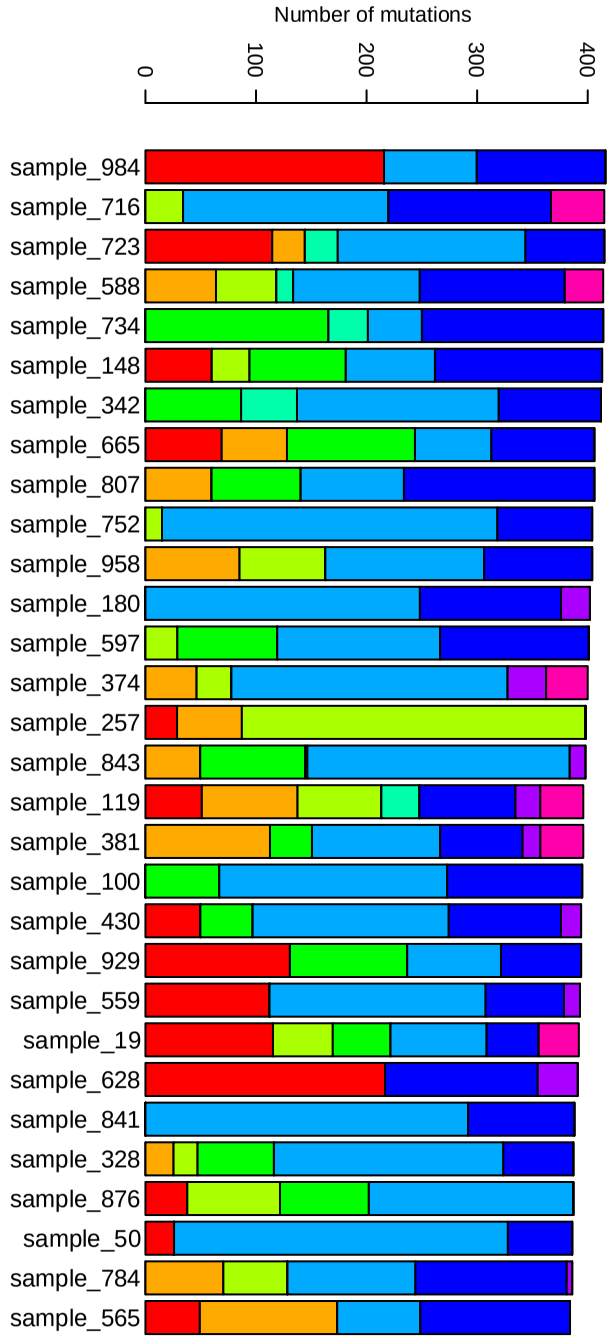
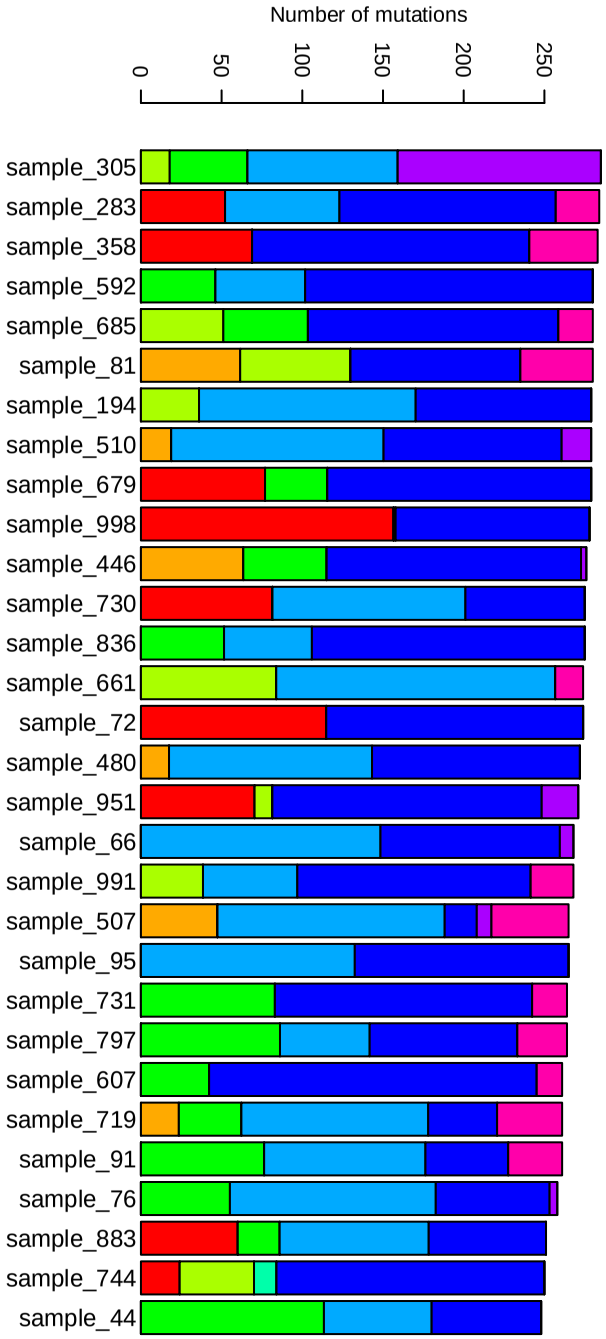
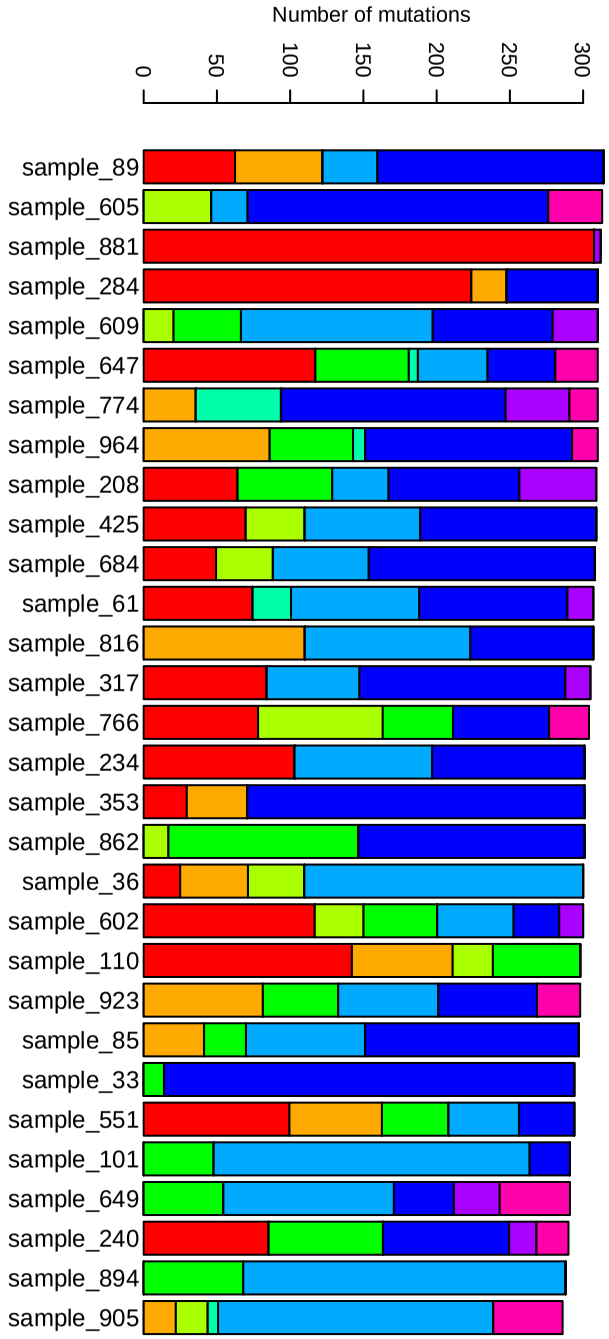
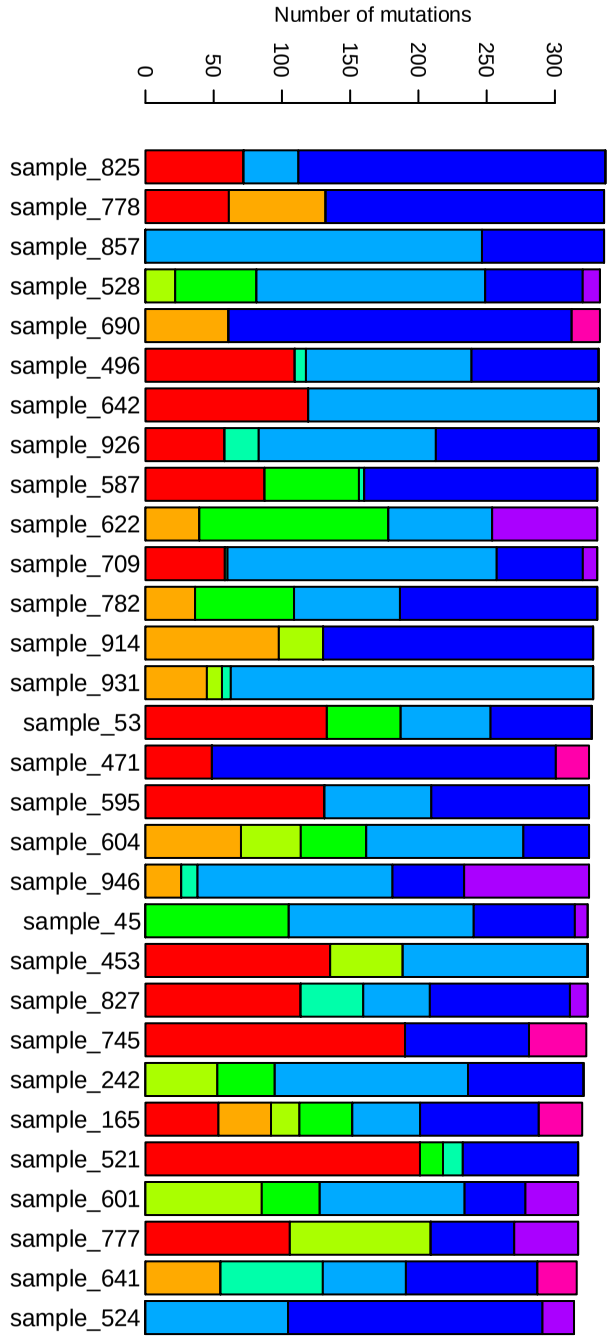
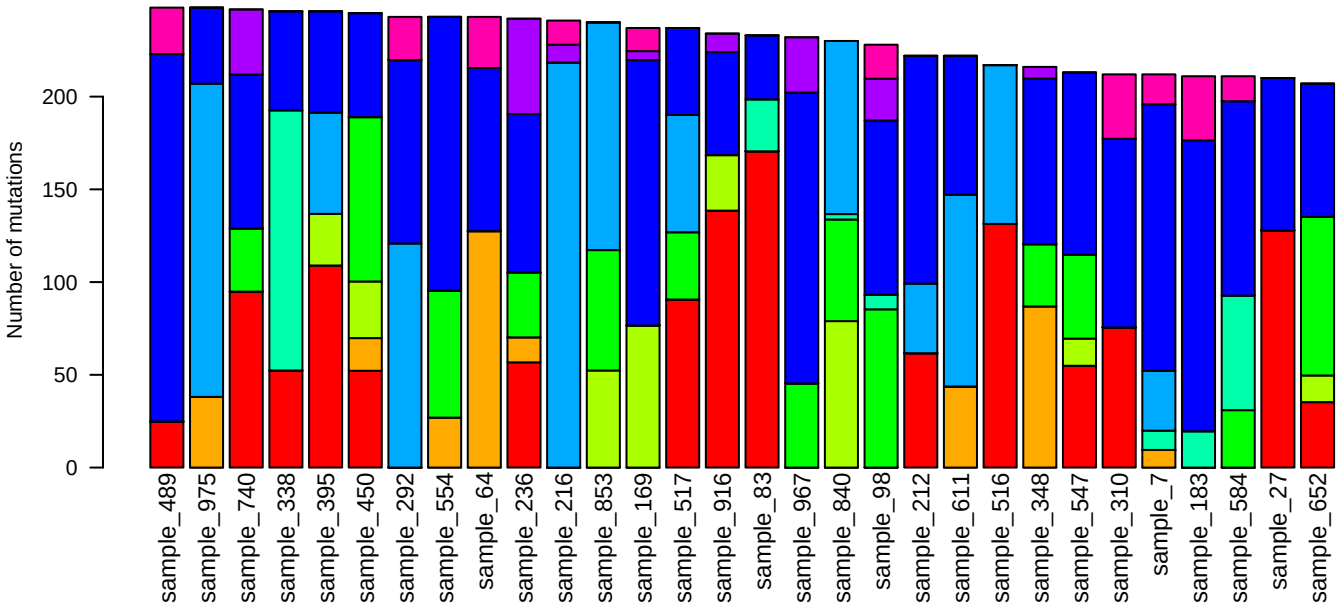
sample_492
sample_674
sample_506
sample_794
sample_286
sample_26
sample_437
sample_375
sample_264
sample_105
sample_552
sample_118
sample_263
sample_303
sample_711
sample_569
sample_619
sample_278
sample_344
sample_728
sample_274
sample_904
sample_722
sample_788
sample_800
sample_166
sample_669
sample_981
sample_271

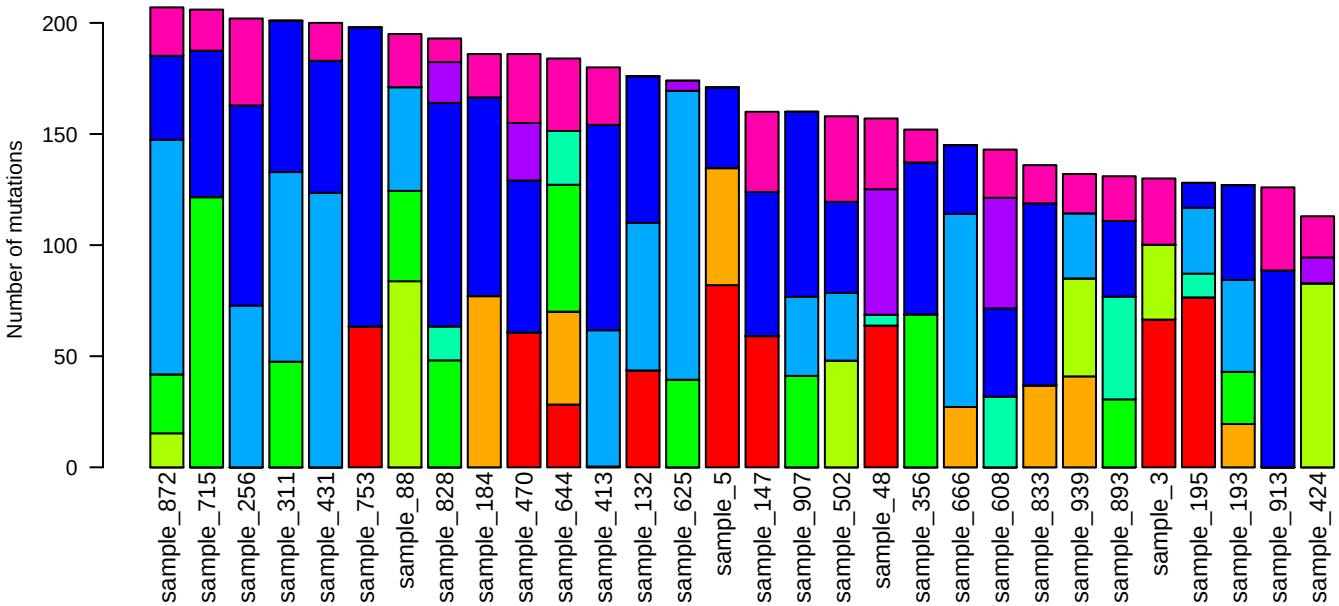

Number of mutations
0
100
200
300
400
sample_984
sample_716
sample_723
sample_588
sample_734
sample_148
sample_342
sample_665
sample_807
sample_752
sample_958
sample_180
sample_597
sample_374
sample_257
sample_843
sample_119
sample_381
sample_100
sample_430
sample_929
sample_559
sample_19
sample_628
sample_841
sample_328
sample_876
sample_50
sample_784
sample_565

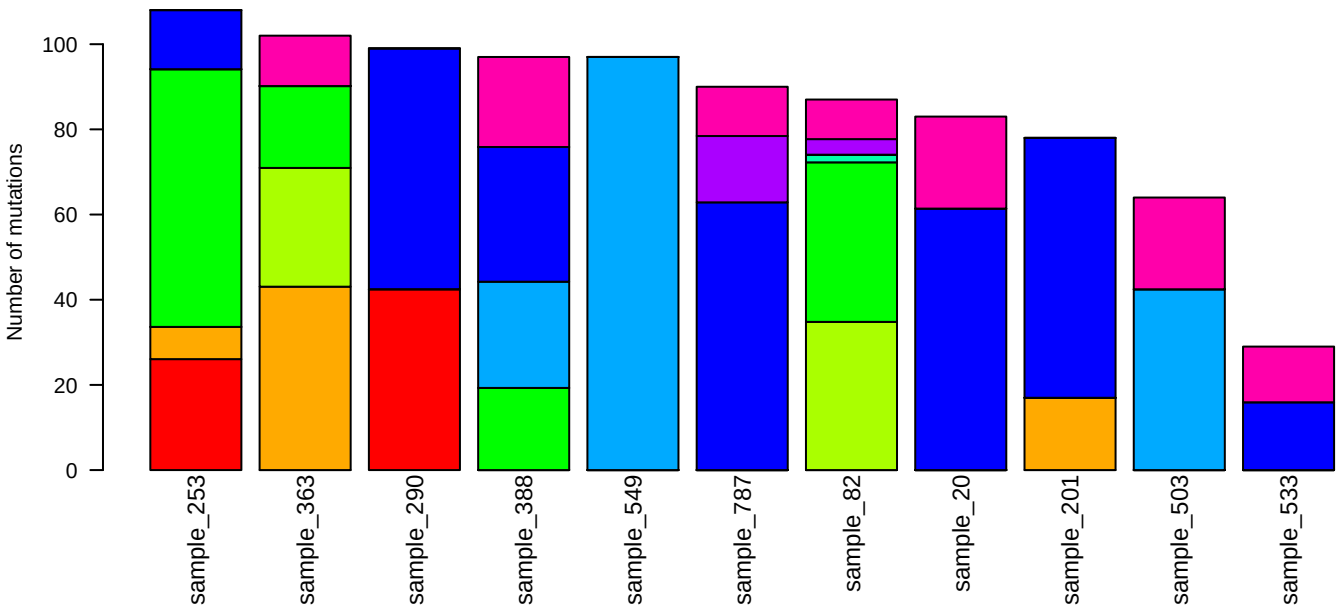

Number of mutations
0
50
100
150
200
250
sample_305
sample_283
sample_358
sample_592
sample_685
sample_81
sample_194
sample_510
sample_679
sample_998
sample_446
sample_730
sample_836
sample_661
sample_72
sample_480
sample_951
sample_66
sample_991
sample_507
sample_95
sample_731
sample_797
sample_607
sample_719
sample_91
sample_76
sample_883
sample_744
sample_44


Number of mutations
0
50
100
150
200
250
300
sample_89
sample_605
sample_881
sample_284
sample_609
sample_647
sample_774
sample_964
sample_208
sample_425
sample_684
sample_61
sample_816
sample_317
sample_766
sample_234
sample_353
sample_862
sample_36
sample_602
sample_110
sample_923
sample_85
sample_33
sample_551
sample_101
sample_649
sample_240
sample_894
sample_905


Number of mutations
0
50
100
150
200
250
300
sample_825
sample_778
sample_857
sample_528
sample_690
sample_496
sample_642
sample_926
sample_587
sample_622
sample_709
sample_782
sample_914
sample_931
sample_53
sample_471
sample_595
sample_604
sample_946
sample_45
sample_453
sample_827
sample_745
sample_242
sample_165
sample_521
sample_601
sample_777
sample_641
sample_524


Number of mutations
0
50
100
150
200
sample_489
sample_975
sample_740
sample_338
sample_395
sample_450
sample_292
sample_554
sample_64
sample_236
sample_216
sample_853
sample_169
sample_517
sample_916
sample_83
sample_967
sample_840
sample_98
sample_212
sample_611
sample_516
sample_348
sample_547
sample_310
sample_7
sample_183
sample_584
sample_27
sample_652


Number of mutations
0
50
100
150
200
sample_872
sample_715
sample_256
sample_311
sample_431
sample_753
sample_88
sample_828
sample_184
sample_470
sample_644
sample_413
sample_132
sample_625
sample_5
sample_147
sample_907
sample_502
sample_48
sample_356
sample_666
sample_608
sample_833
sample_939
sample_893
sample_3
sample_195
sample_193
sample_913
sample_424


Number of mutations
0
20
40
60
80
100
sample_253
sample_363
sample_290
sample_388
sample_549
sample_787
sample_82
sample_20
sample_201
sample_503
sample_533