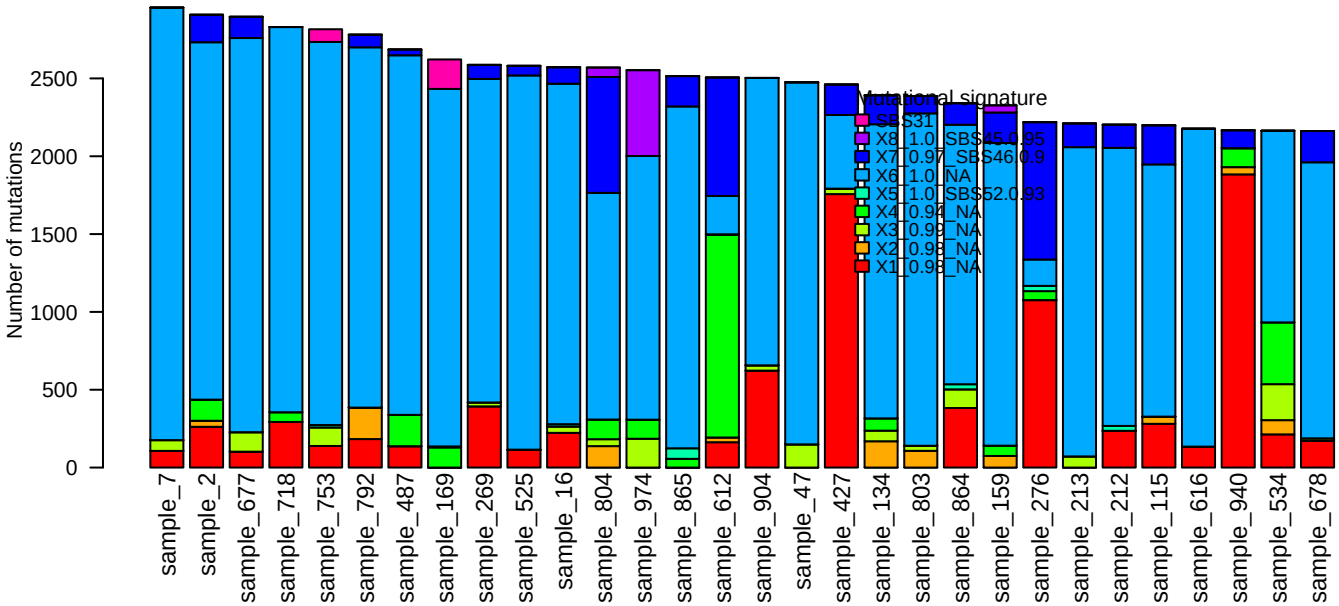
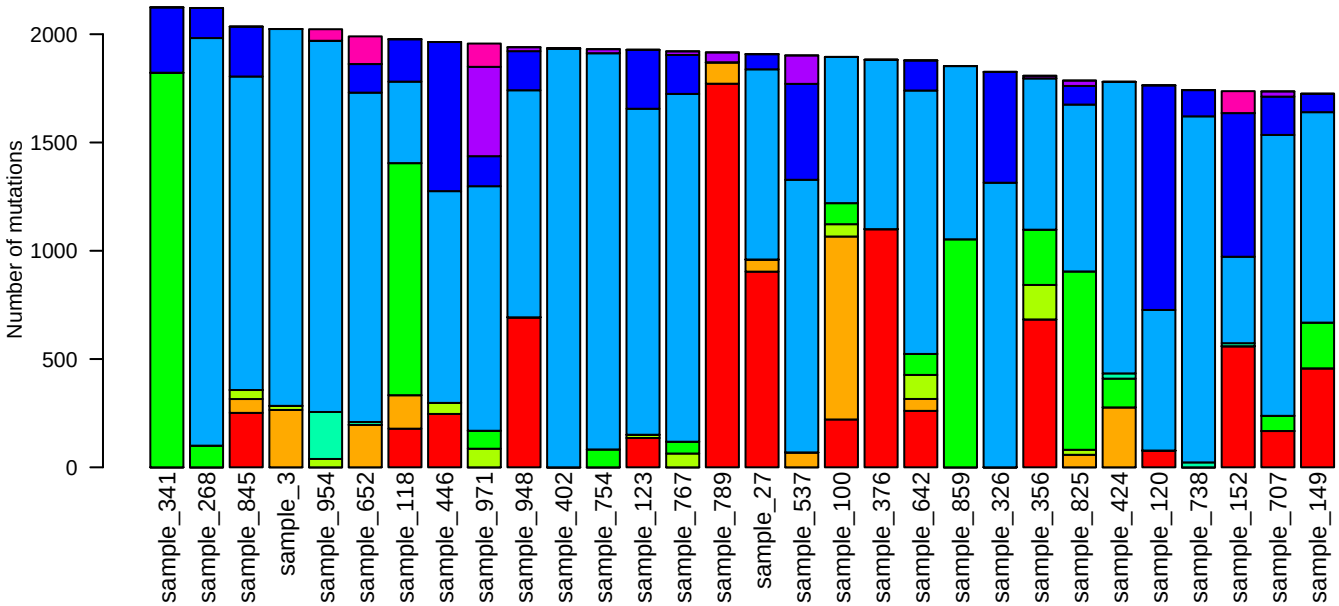

Number of mutations
0
500
1000
1500
2000
2500
Mutational signature
SBS31
X8_1.0_SBS45 0.95
X7_0.97_SBS46 0.9
X6_1.0_NA
X5_1.0_SBS52 0.93
X4_0.94_NA
X3_0.99_NA
X2_0.98_NA
X1_0.98_NA
sample_7
sample_2
sample_677
sample_718
sample_753
sample_792
sample_487
sample_169
sample_269
sample_525
sample_16
sample_804
sample_974
sample_865
sample_612
sample_904
sample_47
sample_427
sample_134
sample_803
sample_864
sample_159
sample_276
sample_213
sample_212
sample_115
sample_616
sample_940
sample_534
sample_678


Number of mutations
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500
1000
1500
2000
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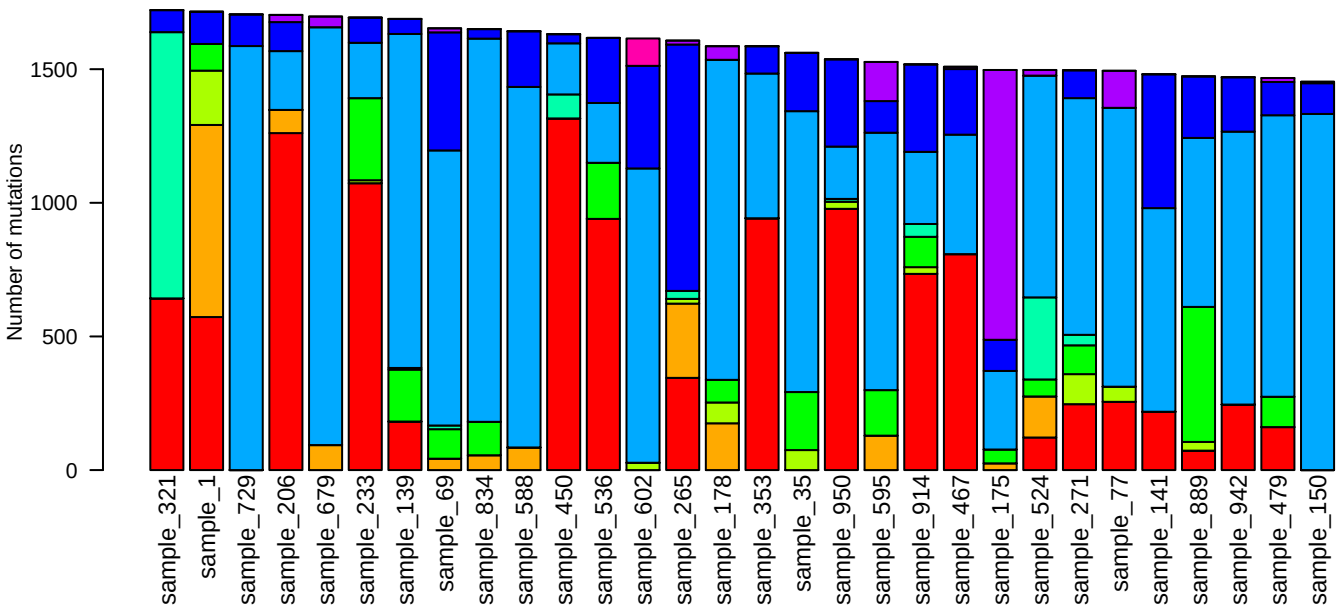
sample_268
sample_845
sample_3
sample_954
sample_652
sample_118
sample_446
sample_971
sample_948
sample_402
sample_754
sample_123
sample_767
sample_789
sample_27
sample_537
sample_100
sample_376
sample_642
sample_859
sample_326
sample_356
sample_825
sample_424
sample_120
sample_738
sample_152
sample_707
sample_149


Number of mutations
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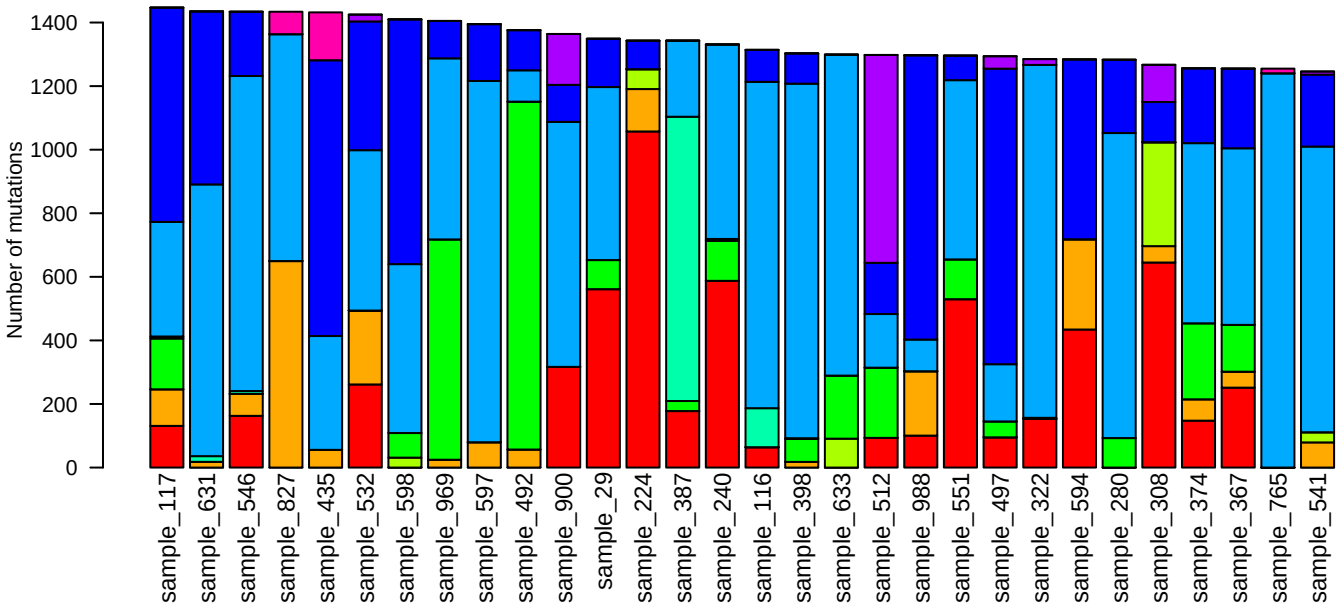
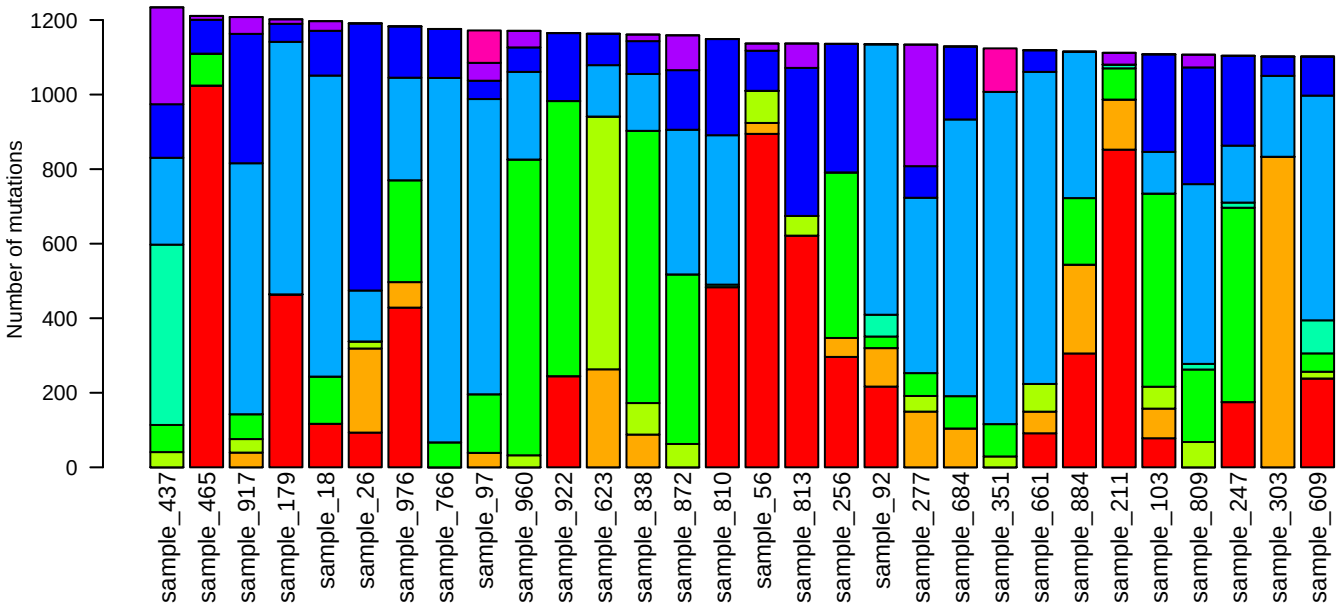
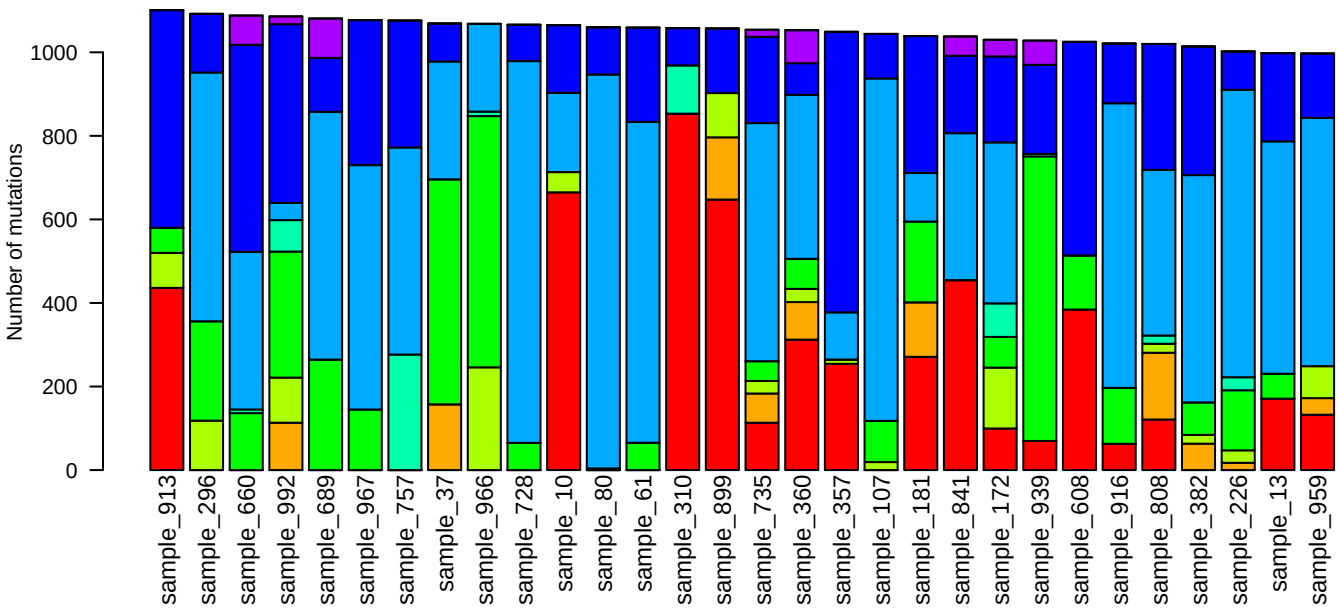
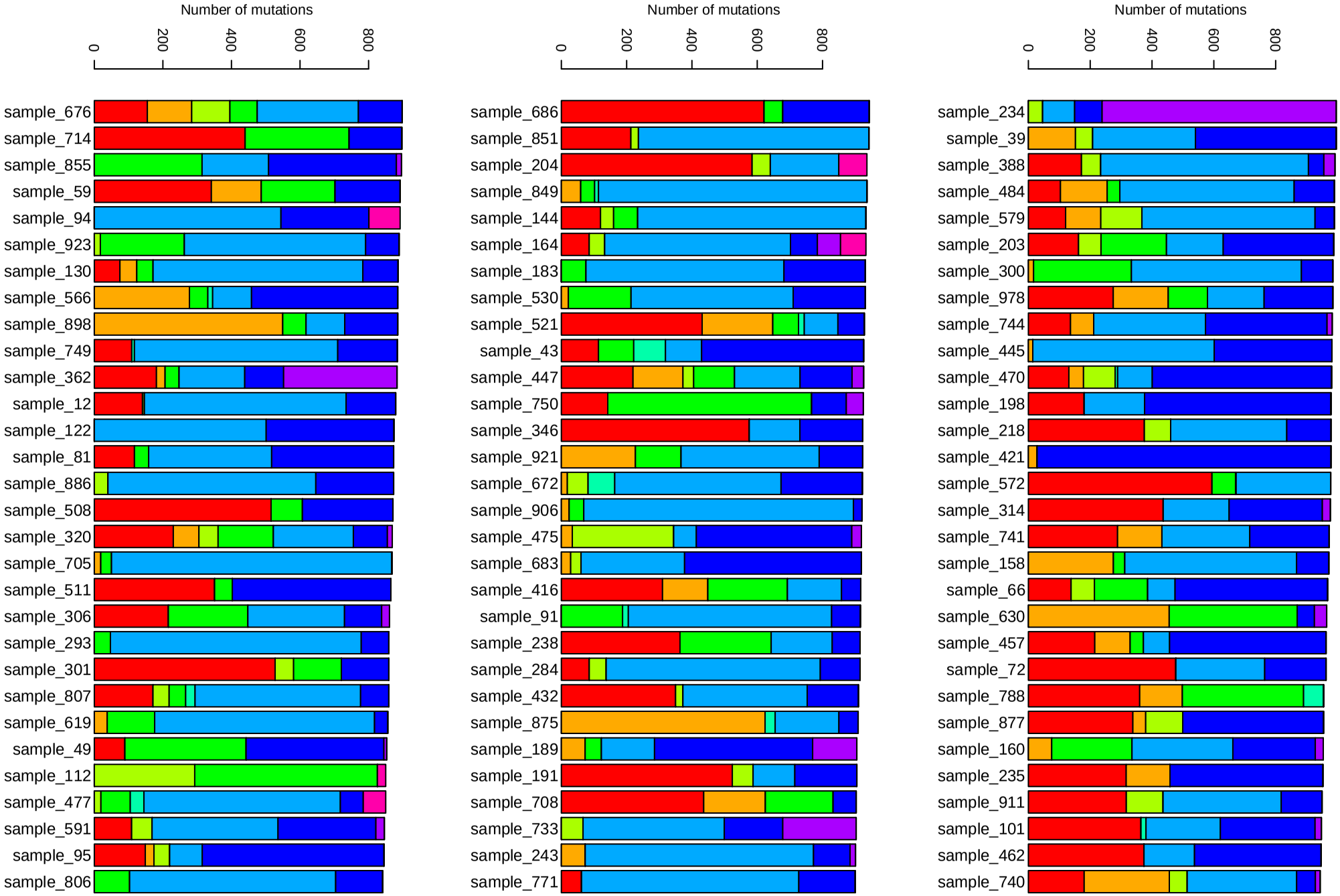
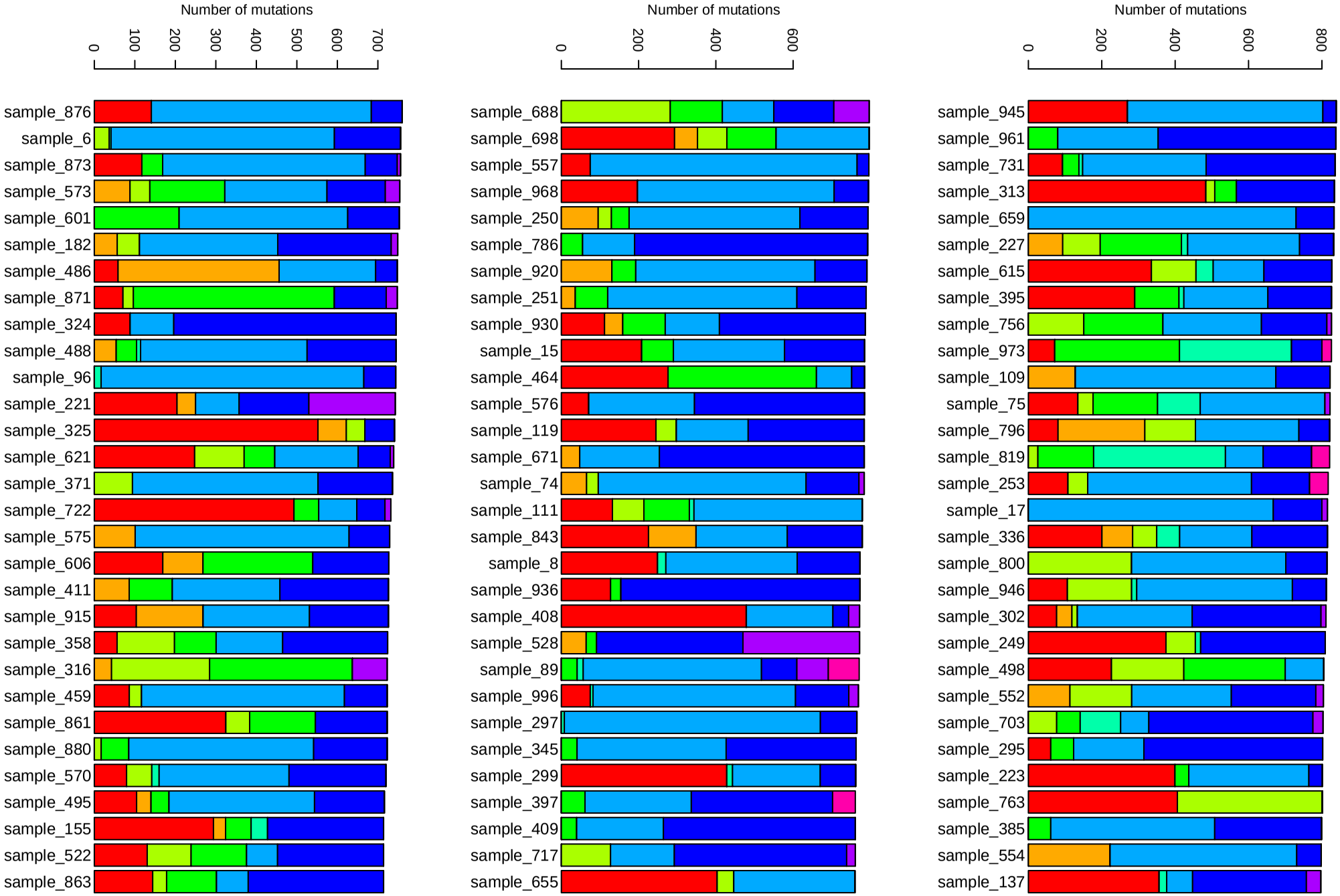
1500
sample_321
sample_1
sample_729
sample_206
sample_679
sample_233
sample_139
sample_69
sample_834
sample_588
sample_450
sample_536
sample_602
sample_265
sample_178
sample_353
sample_35
sample_950
sample_595
sample_914
sample_467
sample_175
sample_524
sample_271
sample_77
sample_141
sample_889
sample_942
sample_479
sample_150

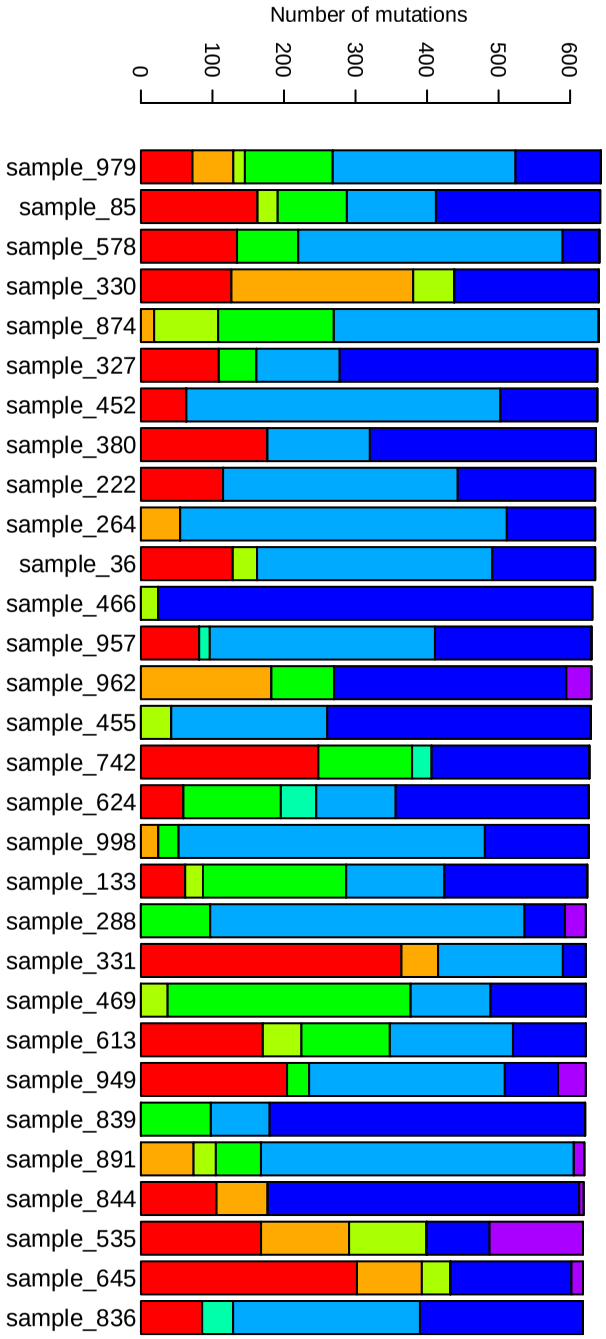

Number of mutations
0
200
400
600
800
1000
1200
1400
sample_117
sample_631
sample_546
sample_827
sample_435
sample_532
sample_598
sample_969
sample_597
sample_492
sample_900
sample_29
sample_224
sample_387
sample_240
sample_116
sample_398
sample_633
sample_512
sample_988
sample_551
sample_497
sample_322
sample_594
sample_280
sample_308
sample_374
sample_367
sample_765
sample_541

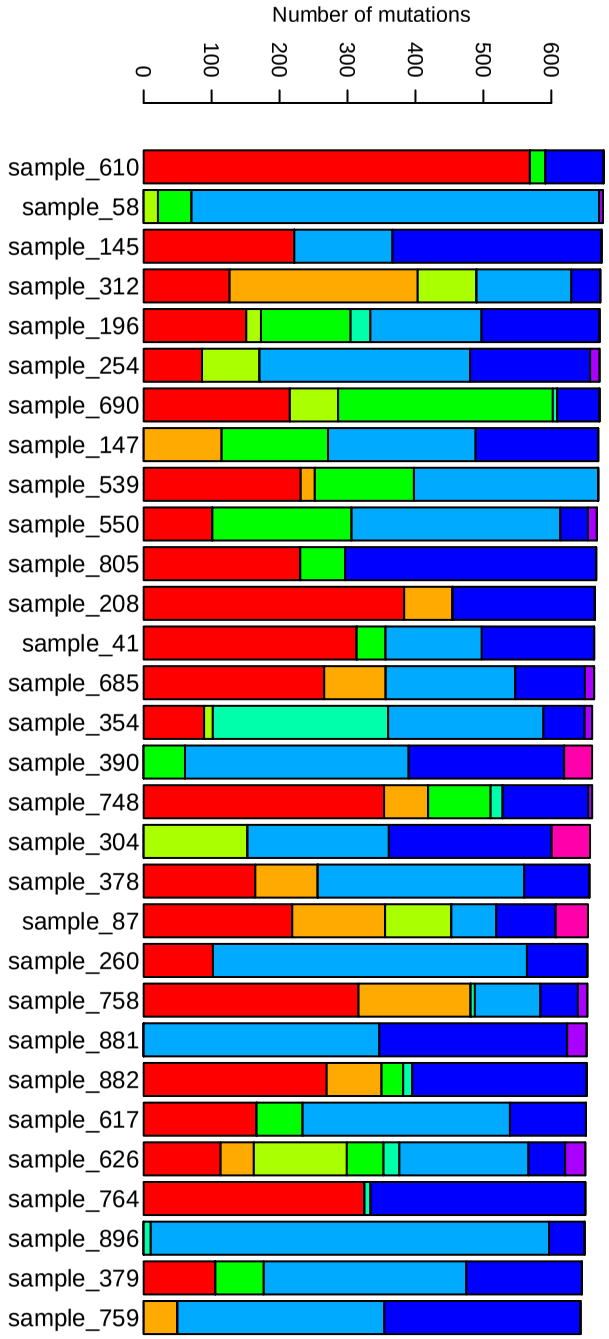

Number of mutations
0
200
400
600
800
1000
1200
sample_437
sample_465
sample_917
sample_179
sample_18
sample_26
sample_976
sample_766
sample_97
sample_960
sample_922
sample_623
sample_838
sample_872
sample_810
sample_56
sample_813
sample_256
sample_92
sample_277
sample_684
sample_351
sample_661
sample_884
sample_211
sample_103
sample_809
sample_247
sample_303
sample_609

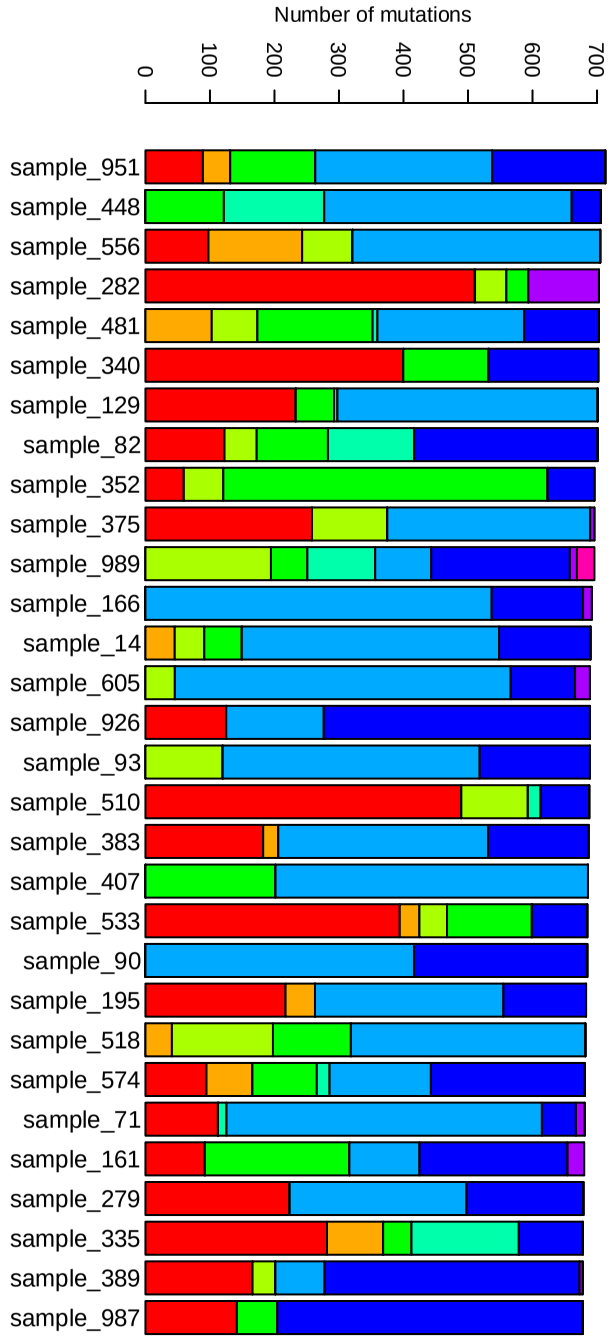

Number of mutations
0
200
400
600
800
1000
sample_913
sample_296
sample_660
sample_992
sample_689
sample_967
sample_757
sample_37
sample_966
sample_728
sample_10
sample_80
sample_61
sample_310
sample_899
sample_735
sample_360
sample_357
sample_107
sample_181
sample_841
sample_172
sample_939
sample_608
sample_916
sample_808
sample_382
sample_226
sample_13
sample_959

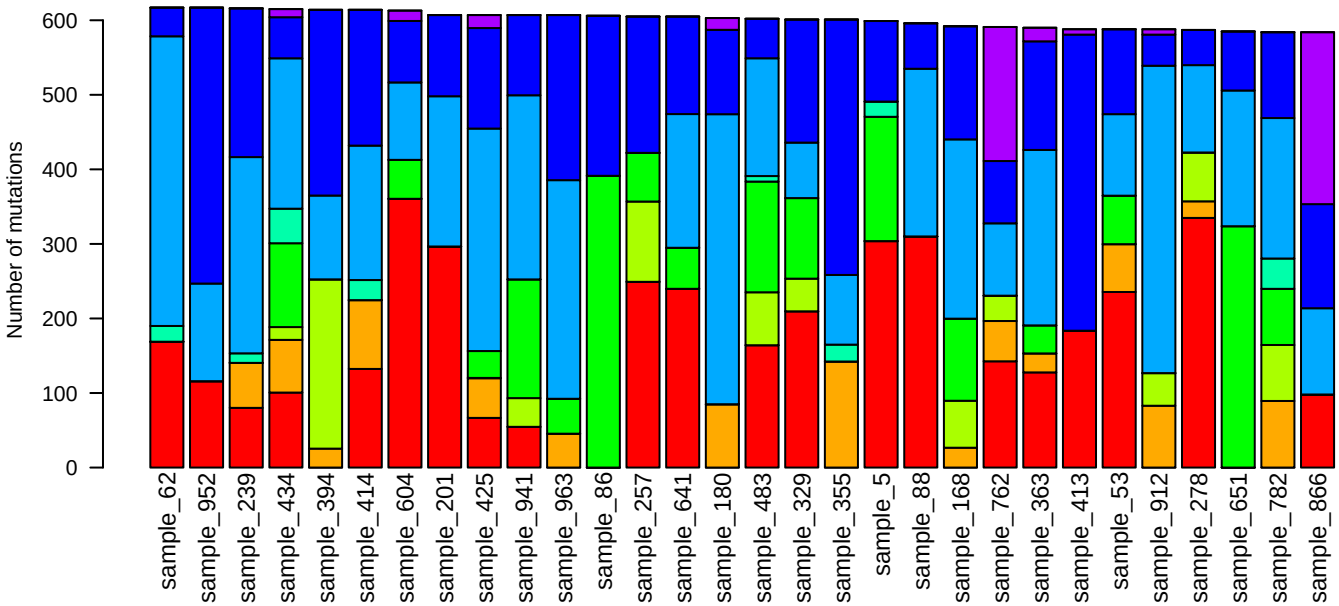

Number of mutations
0
200
400
600
800
sample_676
sample_714
sample_855
sample_59
sample_94
sample_923
sample_130
sample_566
sample_898
sample_749
sample_362
sample_12
sample_122
sample_81
sample_886
sample_508
sample_320
sample_705
sample_511
sample_306
sample_293
sample_301
sample_807
sample_619
sample_49
sample_112
sample_477
sample_591
sample_95
sample_806
Number of mutations
0
200
400
600
800
sample_686
sample_851
sample_204
sample_849
sample_144
sample_164
sample_183
sample_530
sample_521
sample_43
sample_447
sample_750
sample_346
sample_921
sample_672
sample_906
sample_475
sample_683
sample_416
sample_91
sample_238
sample_284
sample_432
sample_875
sample_189
sample_191
sample_708
sample_733
sample_243
sample_771
Number of mutations
0
200
400
600
800
sample_234
sample_39
sample_388
sample_484
sample_579
sample_203
sample_300
sample_978
sample_744
sample_445
sample_470
sample_198
sample_218
sample_421
sample_572
sample_314
sample_741
sample_158
sample_66
sample_630
sample_457
sample_72
sample_788
sample_877
sample_160
sample_235
sample_911
sample_101
sample_462
sample_740


Number of mutations
0
100
200
300
400
500
600
700
sample_876
sample_6
sample_873
sample_573
sample_601
sample_182
sample_486
sample_871
sample_324
sample_488
sample_96
sample_221
sample_325
sample_621
sample_371
sample_722
sample_575
sample_606
sample_411
sample_915
sample_358
sample_316
sample_459
sample_861
sample_880
sample_570
sample_495
sample_155
sample_522
sample_863
Number of mutations
0
200
400
600
sample_688
sample_698
sample_557
sample_968
sample_250
sample_786
sample_920
sample_251
sample_930
sample_15
sample_464
sample_576
sample_119
sample_671
sample_74
sample_111
sample_843
sample_8
sample_936
sample_408
sample_528
sample_89
sample_996
sample_297
sample_345
sample_299
sample_397
sample_409
sample_717
sample_655
Number of mutations
0
200
400
600
800
sample_945
sample_961
sample_731
sample_313
sample_659
sample_227
sample_615
sample_395
sample_756
sample_973
sample_109
sample_75
sample_796
sample_819
sample_253
sample_17
sample_336
sample_800
sample_946
sample_302
sample_249
sample_498
sample_552
sample_703
sample_295
sample_223
sample_763
sample_385
sample_554
sample_137


Number of mutations
0
100
200
300
400
500
600
sample_979
sample_85
sample_578
sample_330
sample_874
sample_327
sample_452
sample_380
sample_222
sample_264
sample_36
sample_466
sample_957
sample_962
sample_455
sample_742
sample_624
sample_998
sample_133
sample_288
sample_331
sample_469
sample_613
sample_949
sample_839
sample_891
sample_844
sample_535
sample_645
sample_836


Number of mutations
0
100
200
300
400
500
600
sample_610
sample_58
sample_145
sample_312
sample_196
sample_254
sample_690
sample_147
sample_539
sample_550
sample_805
sample_208
sample_41
sample_685
sample_354
sample_390
sample_748
sample_304
sample_378
sample_87
sample_260
sample_758
sample_881
sample_882
sample_617
sample_626
sample_764
sample_896
sample_379
sample_759


Number of mutations
0
100
200
300
400
500
600
700
sample_951
sample_448
sample_556
sample_282
sample_481
sample_340
sample_129
sample_82
sample_352
sample_375
sample_989
sample_166
sample_14
sample_605
sample_926
sample_93
sample_510
sample_383
sample_407
sample_533
sample_90
sample_195
sample_518
sample_574
sample_71
sample_161
sample_279
sample_335
sample_389
sample_987


Number of mutations
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100
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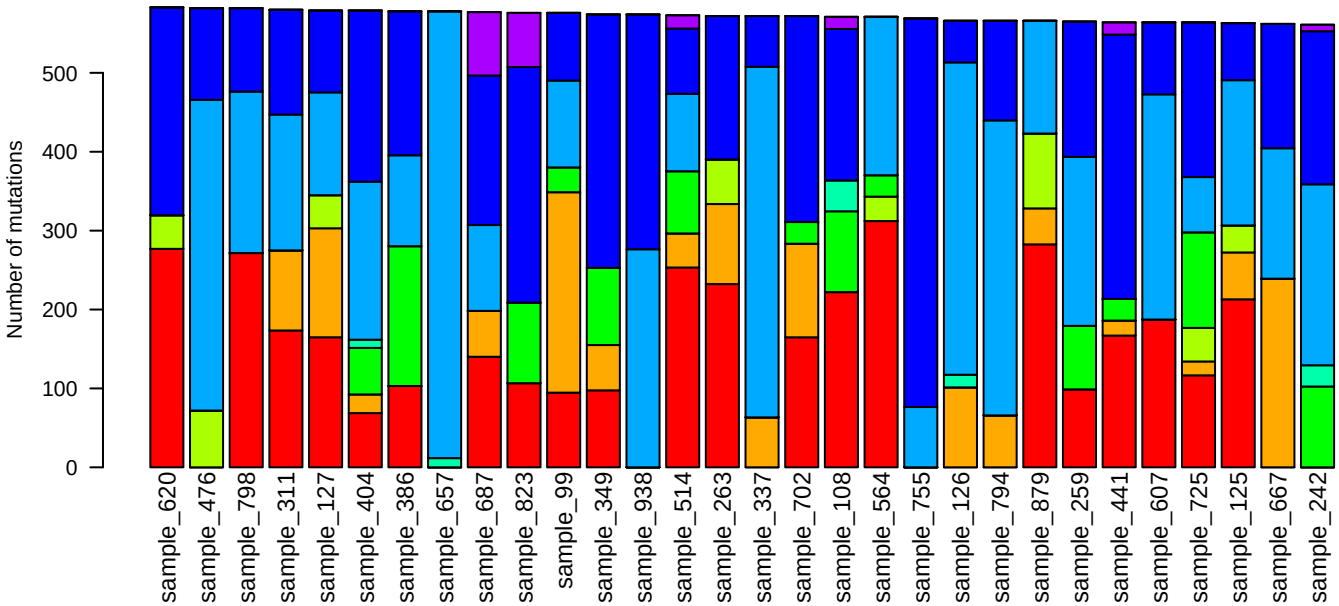
400
500
600
sample_62
sample_952
sample_239
sample_434
sample_394
sample_414
sample_604
sample_201
sample_425
sample_941
sample_963
sample_86
sample_257
sample_641
sample_180
sample_483
sample_329
sample_355
sample_5
sample_88
sample_168
sample_762
sample_363
sample_413
sample_53
sample_912
sample_278
sample_651
sample_782
sample_866


Number of mutations
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100
200
300
400
500
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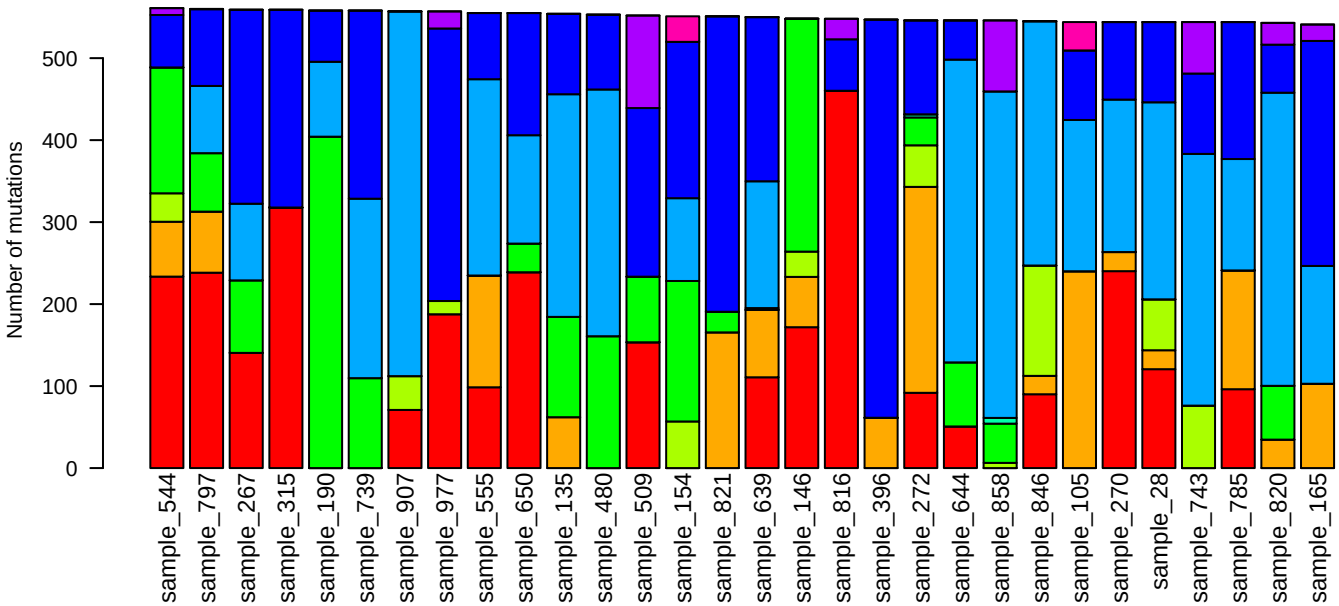
sample_476
sample_798
sample_311
sample_127
sample_404
sample_386
sample_657
sample_687
sample_823
sample_99
sample_349
sample_938
sample_514
sample_263
sample_337
sample_702
sample_108
sample_564
sample_755
sample_126
sample_794
sample_879
sample_259
sample_441
sample_607
sample_725
sample_125
sample_667
sample_242


Number of mutations
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100
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300
400
500
sample_544
sample_797
sample_267
sample_315
sample_190
sample_739
sample_907
sample_977
sample_555
sample_650
sample_135
sample_480
sample_509
sample_154
sample_821
sample_639
sample_146
sample_816
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sample_272
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sample_858
sample_846
sample_105
sample_270
sample_28
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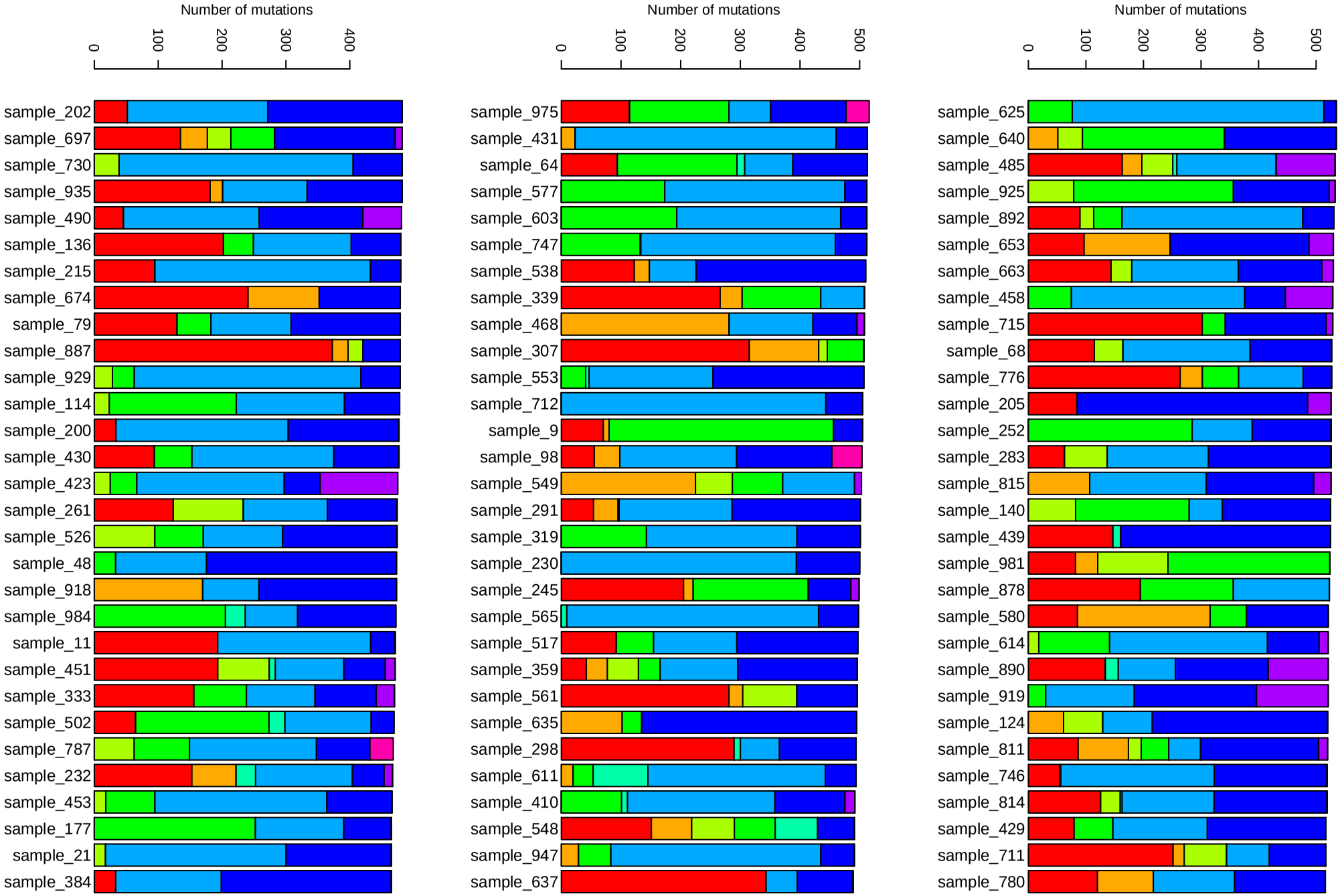
sample_785
sample_820
sample_165


Number of mutations
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300
400
500
sample_202
sample_697
sample_730
sample_935
sample_490
sample_136
sample_215
sample_674
sample_79
sample_887
sample_929
sample_114
sample_200
sample_430
sample_423
sample_261
sample_526
sample_48
sample_918
sample_984
sample_11
sample_451
sample_333
sample_502
sample_787
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sample_64
sample_577
sample_603
sample_747
sample_538
sample_339
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sample_307
sample_553
sample_712
sample_9
sample_98
sample_549
sample_291
sample_319
sample_230
sample_245
sample_565
sample_517
sample_359
sample_561
sample_635
sample_298
sample_611
sample_410
sample_548
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sample_640
sample_485
sample_925
sample_892
sample_653
sample_663
sample_458
sample_715
sample_68
sample_776
sample_205
sample_252
sample_283
sample_815
sample_140
sample_439
sample_981
sample_878
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sample_124
sample_811
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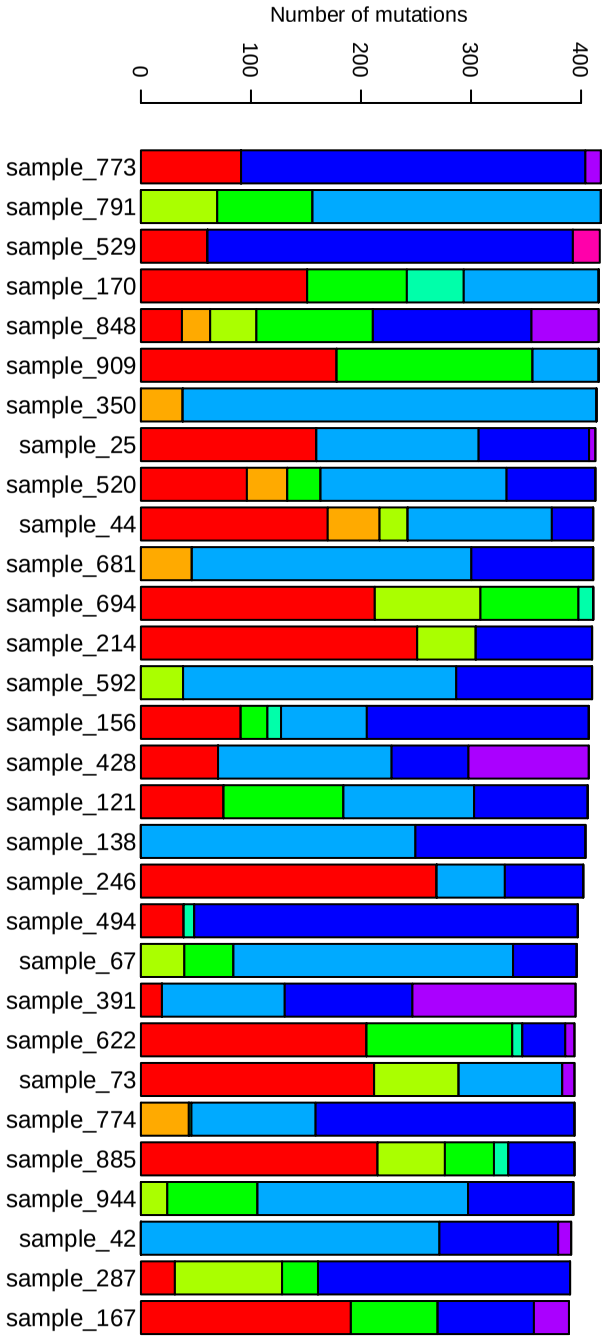
sample_780


Number of mutations
0
100
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300
400
sample_773
sample_791
sample_529
sample_170
sample_848
sample_909
sample_350
sample_25
sample_520
sample_44
sample_681
sample_694
sample_214
sample_592
sample_156
sample_428
sample_121
sample_138
sample_246
sample_494
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sample_391
sample_622
sample_73
sample_774
sample_885
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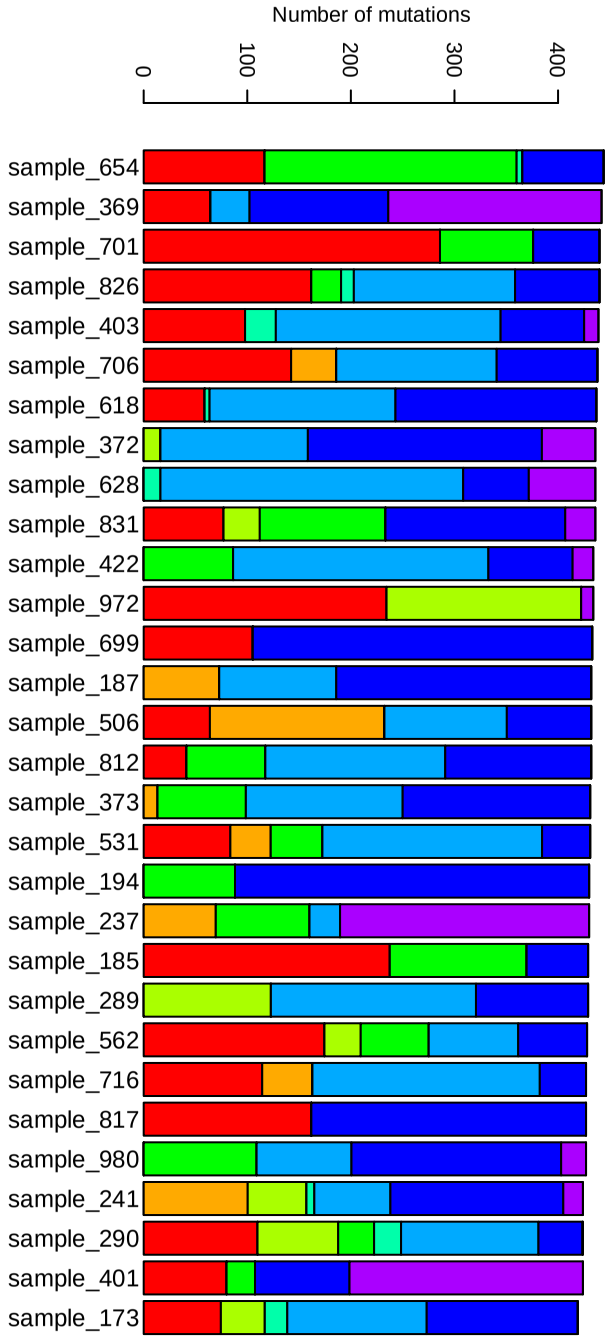
sample_287
sample_167


Number of mutations
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300
400
sample_654
sample_369
sample_701
sample_826
sample_403
sample_706
sample_618
sample_372
sample_628
sample_831
sample_422
sample_972
sample_699
sample_187
sample_506
sample_812
sample_373
sample_531
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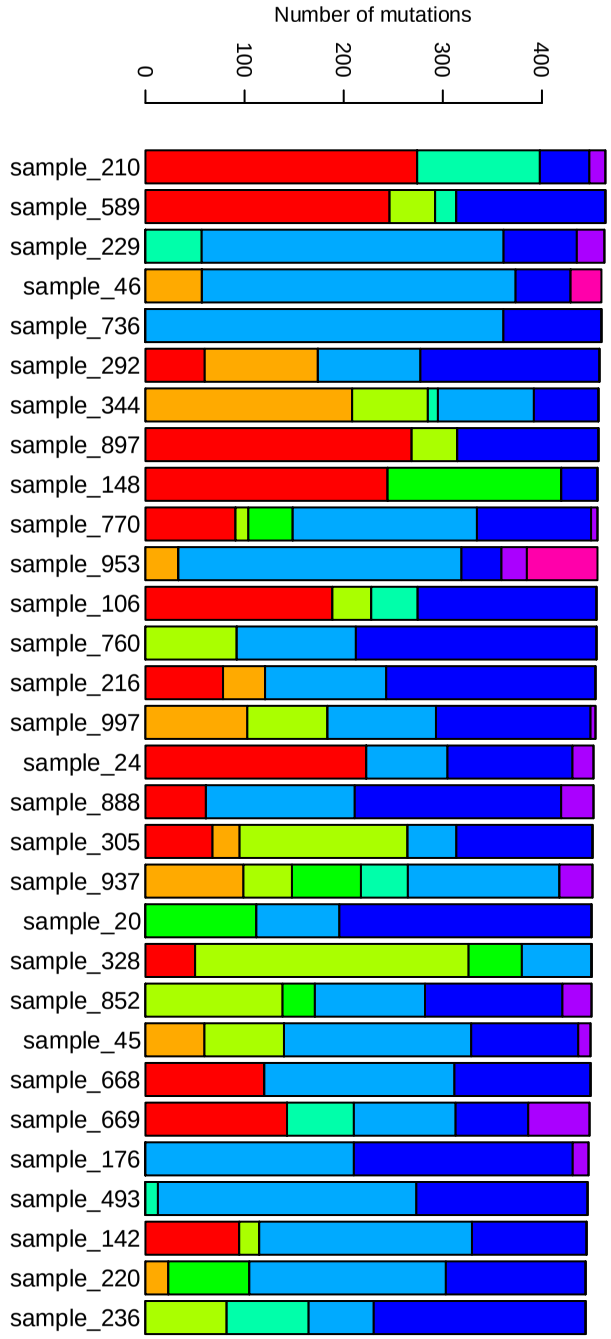
sample_289
sample_562
sample_716
sample_817
sample_980
sample_241
sample_290
sample_401
sample_173


Number of mutations
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100
200
300
400
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sample_589
sample_229
sample_46
sample_736
sample_292
sample_344
sample_897
sample_148
sample_770
sample_953
sample_106
sample_760
sample_216
sample_997
sample_24
sample_888
sample_305
sample_937
sample_20
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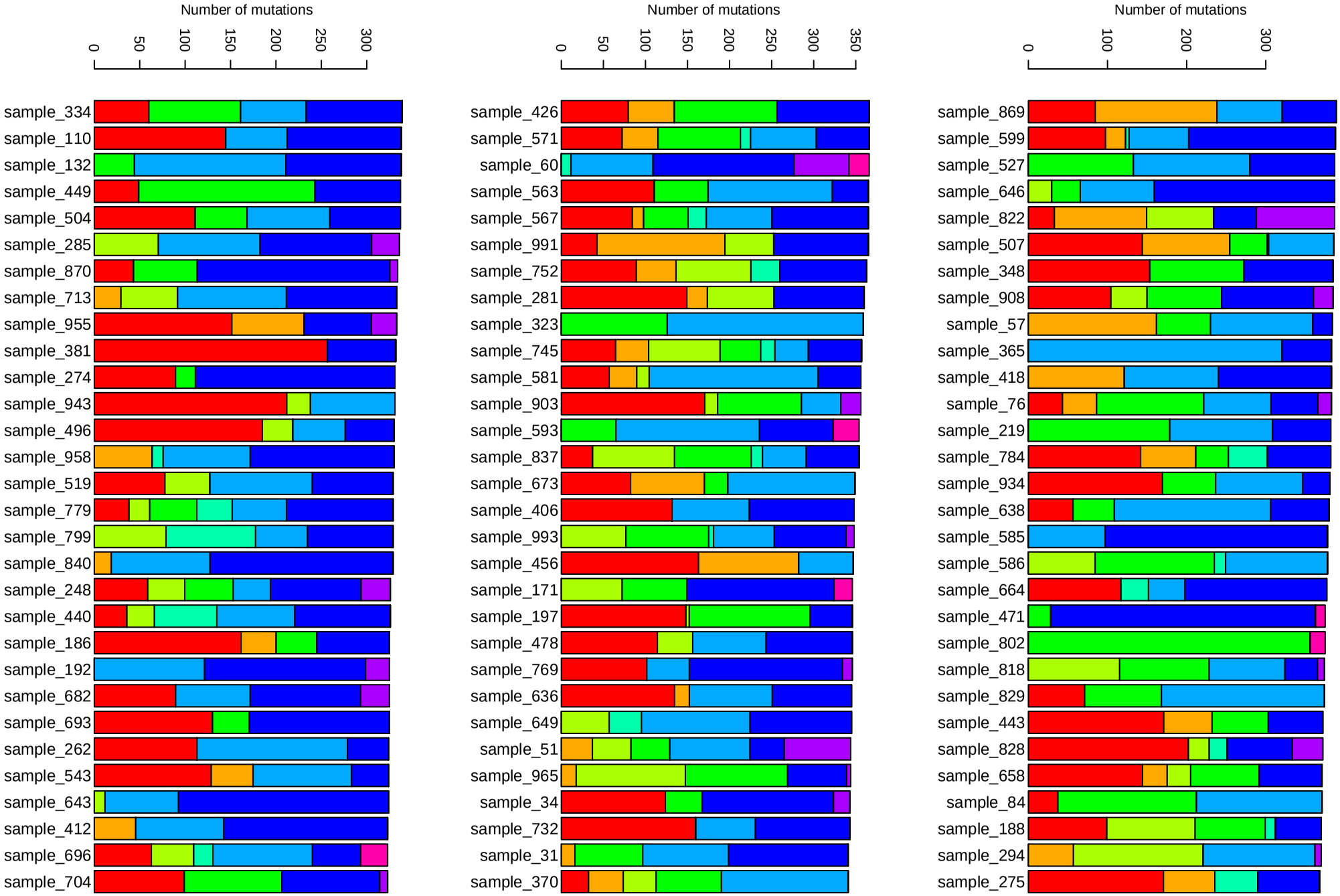
sample_852
sample_45
sample_668
sample_669
sample_176
sample_493
sample_142
sample_220
sample_236


Number of mutations
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100
150
200
250
300
sample_334
sample_110
sample_132
sample_449
sample_504
sample_285
sample_870
sample_713
sample_955
sample_381
sample_274
sample_943
sample_496
sample_958
sample_519
sample_779
sample_799
sample_840
sample_248
sample_440
sample_186
sample_192
sample_682
sample_693
sample_262
sample_543
sample_643
sample_412
sample_696
sample_704
Number of mutations
0
50
100
150
200
250
300
350
sample_426
sample_571
sample_60
sample_563
sample_567
sample_991
sample_752
sample_281
sample_323
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sample_197
sample_478
sample_769
sample_636
sample_649
sample_51
sample_965
sample_34
sample_732
sample_31
sample_370
Number of mutations
0
100
200
300
sample_869
sample_599
sample_527
sample_646
sample_822
sample_507
sample_348
sample_908
sample_57
sample_365
sample_418
sample_76
sample_219
sample_784
sample_934
sample_638
sample_585
sample_586
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sample_443
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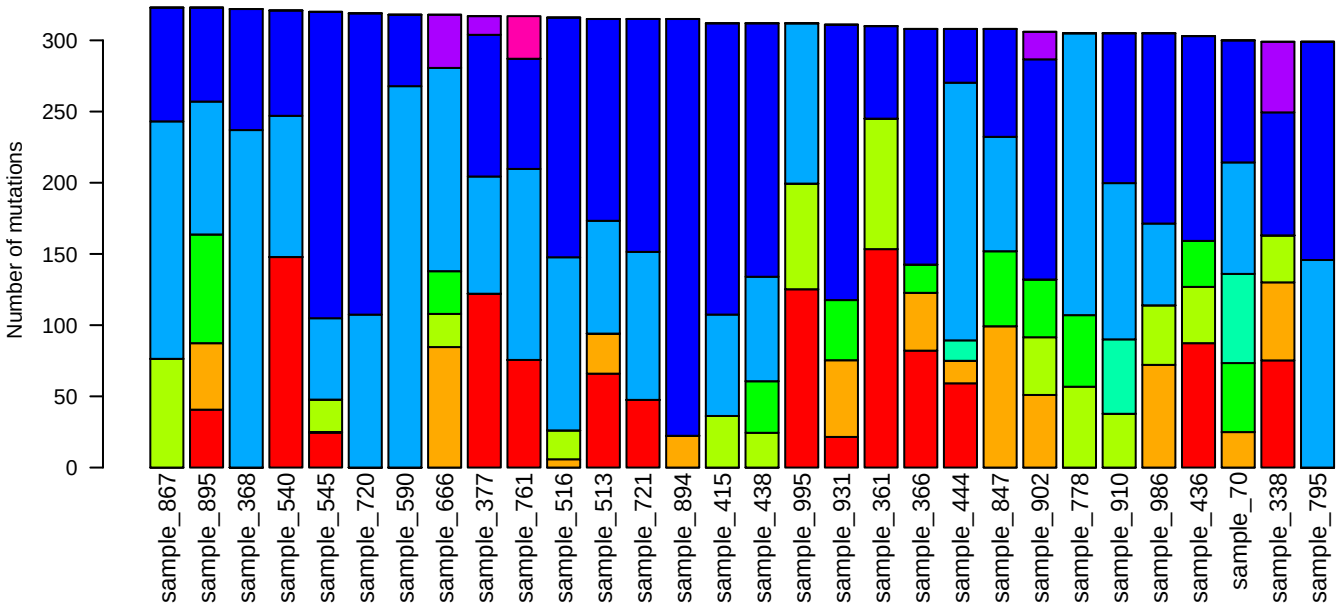
sample_188
sample_294
sample_275


Number of mutations
0
50
100
150
200
250
300
sample_867
sample_895
sample_368
sample_540
sample_545
sample_720
sample_590
sample_666
sample_377
sample_761
sample_516
sample_513
sample_721
sample_894
sample_415
sample_438
sample_995
sample_931
sample_361
sample_366
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sample_778
sample_910
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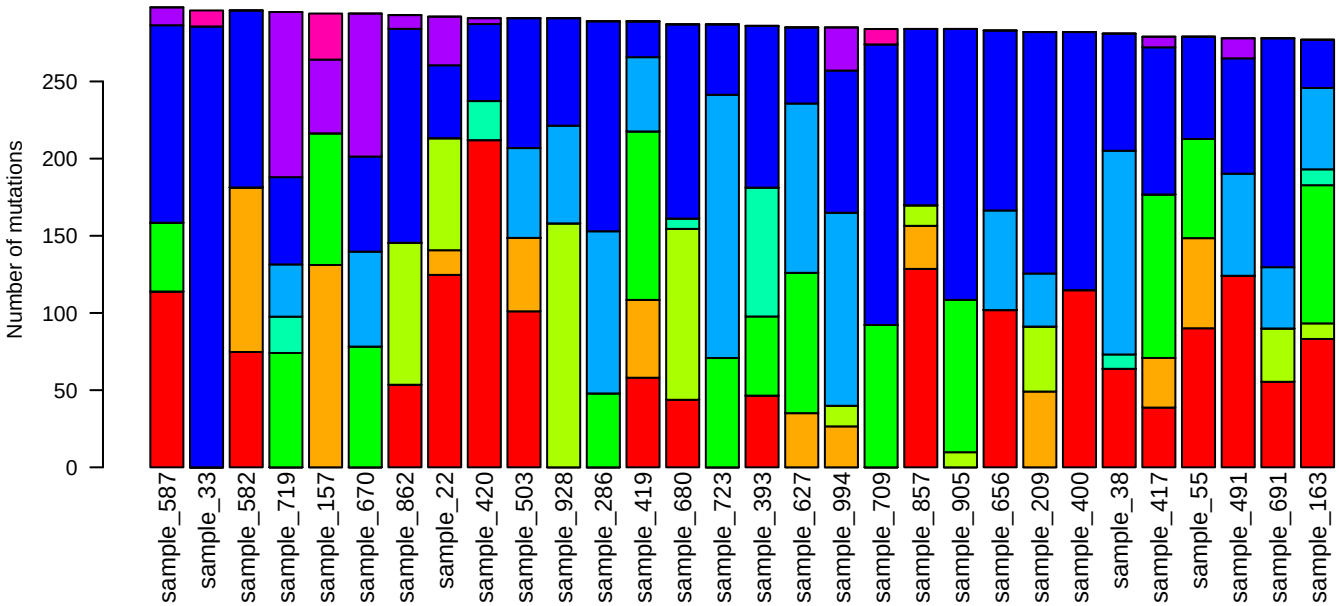
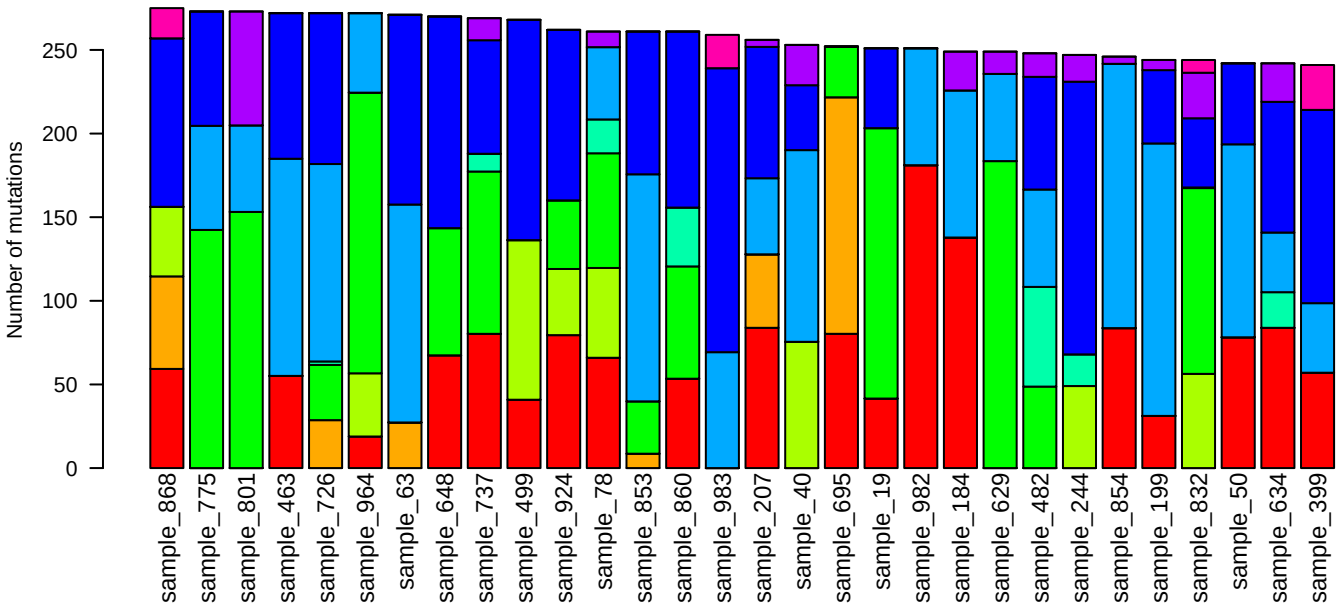
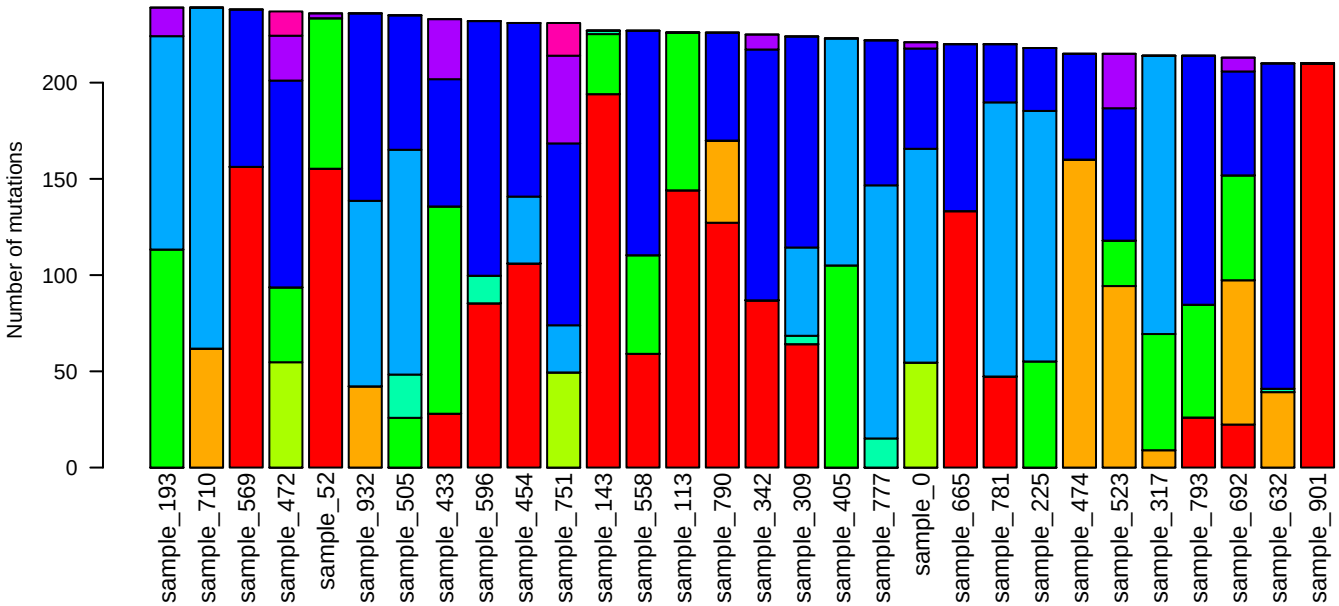
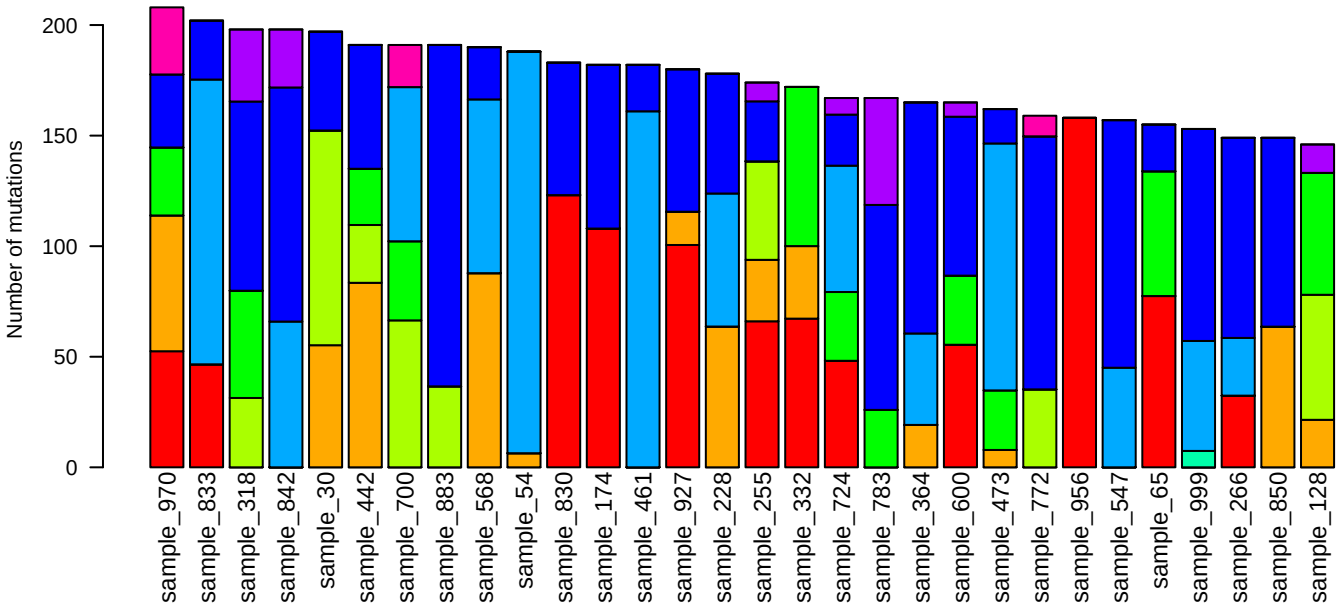
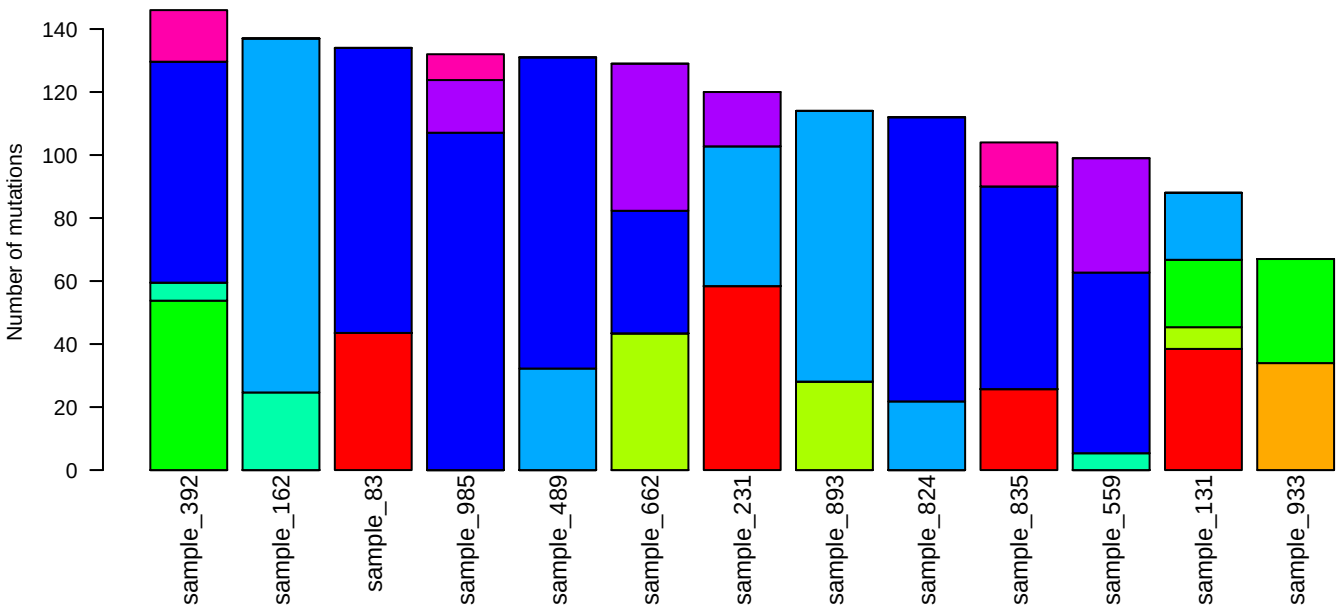
sample_436
sample_70
sample_338
sample_795


Number of mutations
0
50
100
150
200
250
sample_587
sample_33
sample_582
sample_719
sample_157
sample_670
sample_862
sample_22
sample_420
sample_503
sample_928
sample_286
sample_419
sample_680
sample_723
sample_393
sample_627
sample_994
sample_709
sample_857
sample_905
sample_656
sample_209
sample_400
sample_38
sample_417
sample_55
sample_491
sample_691
sample_163


Number of mutations
0
50
100
150
200
250
sample_868
sample_775
sample_801
sample_463
sample_726
sample_964
sample_63
sample_648
sample_737
sample_499
sample_924
sample_78
sample_853
sample_860
sample_983
sample_207
sample_40
sample_695
sample_19
sample_982
sample_184
sample_629
sample_482
sample_244
sample_854
sample_199
sample_832
sample_50
sample_634
sample_399


Number of mutations
0
50
100
150
200
sample_193
sample_710
sample_569
sample_472
sample_52
sample_932
sample_505
sample_433
sample_596
sample_454
sample_751
sample_143
sample_558
sample_113
sample_790
sample_342
sample_309
sample_405
sample_777
sample_0
sample_665
sample_781
sample_225
sample_474
sample_523
sample_317
sample_793
sample_692
sample_632
sample_901


Number of mutations
0
50
100
150
200
sample_970
sample_833
sample_318
sample_842
sample_30
sample_442
sample_700
sample_883
sample_568
sample_54
sample_830
sample_174
sample_461
sample_927
sample_228
sample_255
sample_332
sample_724
sample_783
sample_364
sample_600
sample_473
sample_772
sample_956
sample_547
sample_65
sample_999
sample_266
sample_850
sample_128


Number of mutations
0
20
40
60
80
100
120
140
sample_392
sample_162
sample_83
sample_985
sample_489
sample_662
sample_231
sample_893
sample_824
sample_835
sample_559
sample_131
sample_933