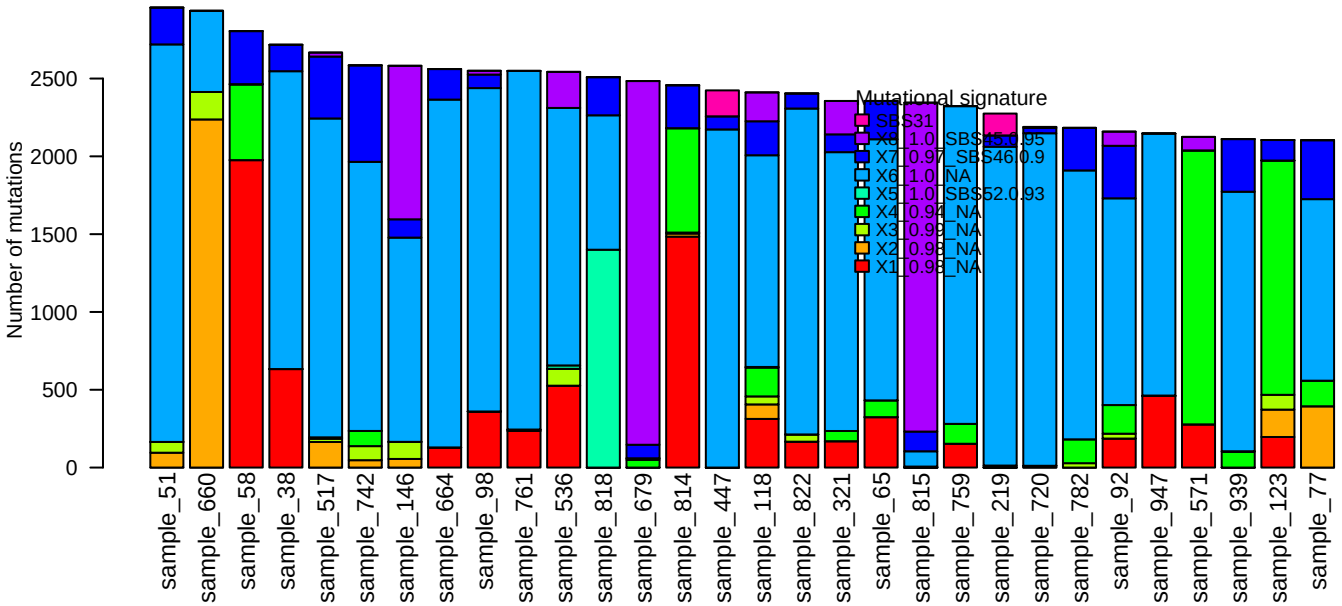
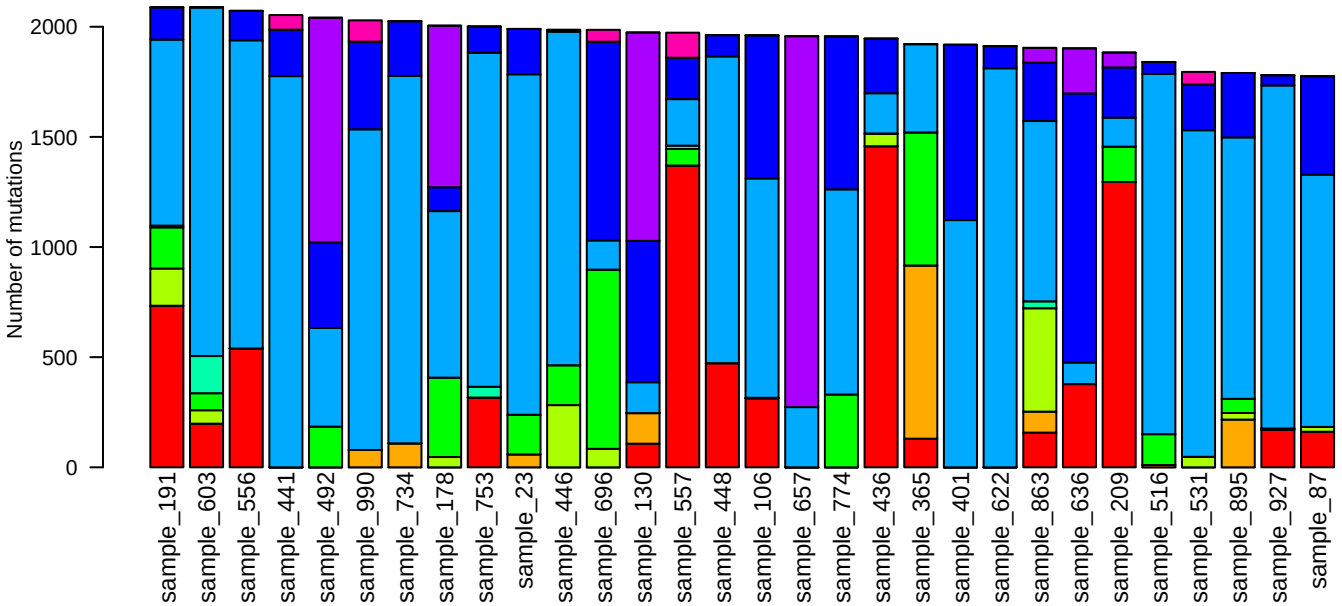
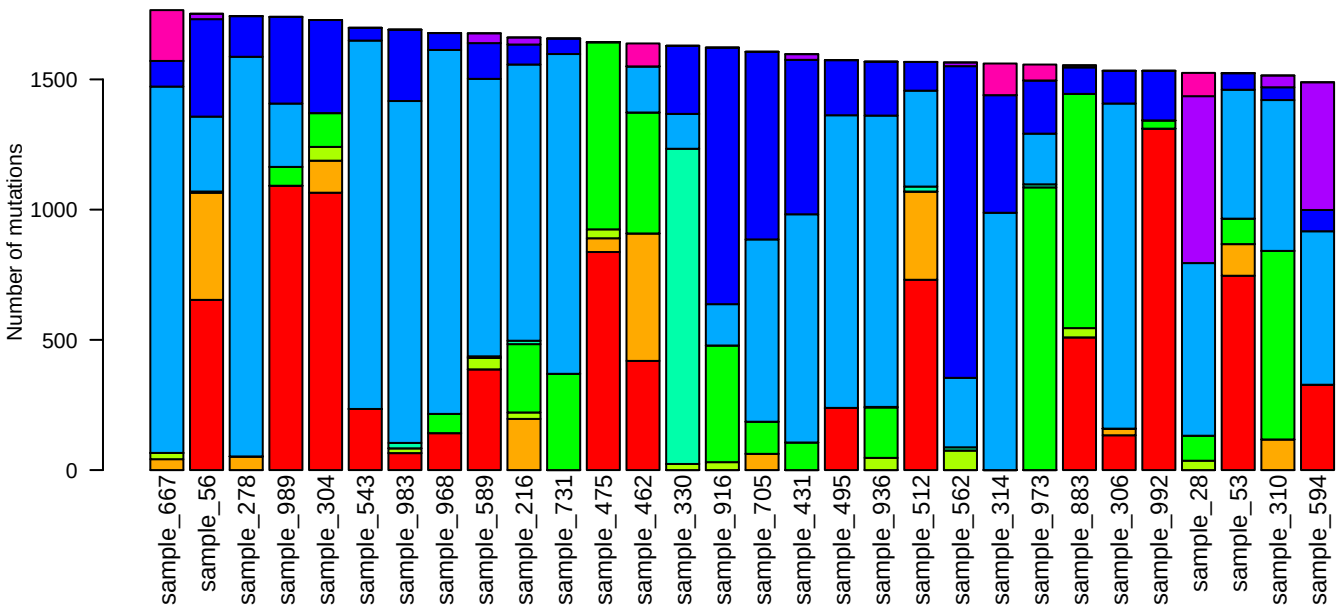
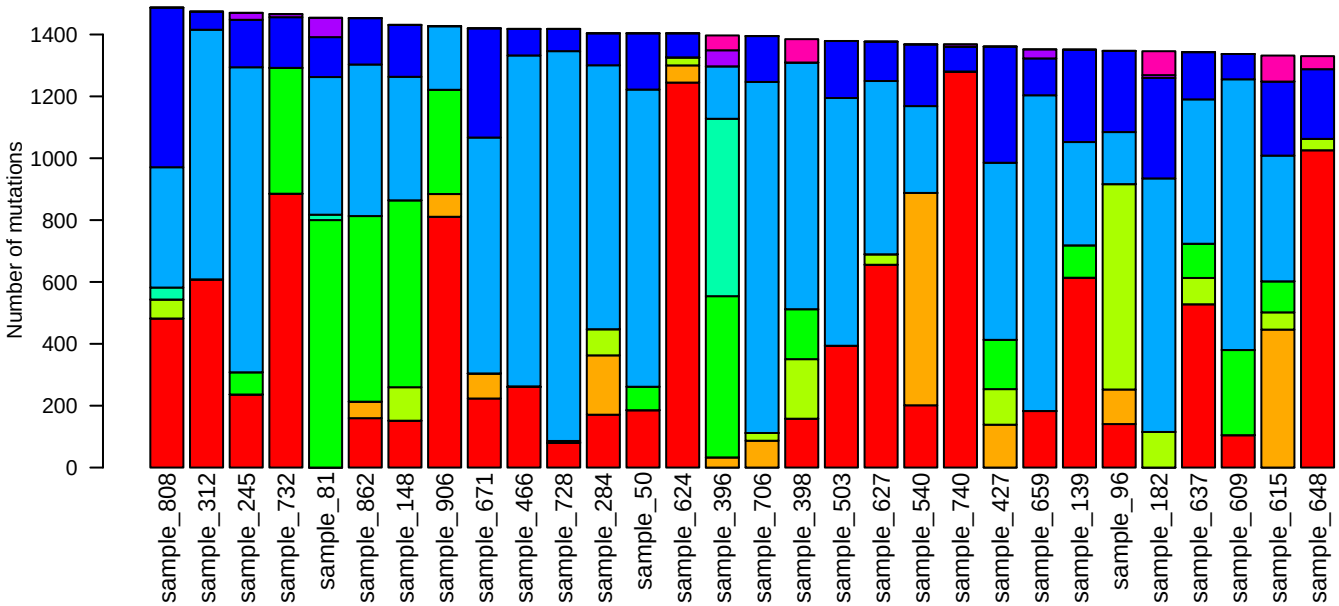
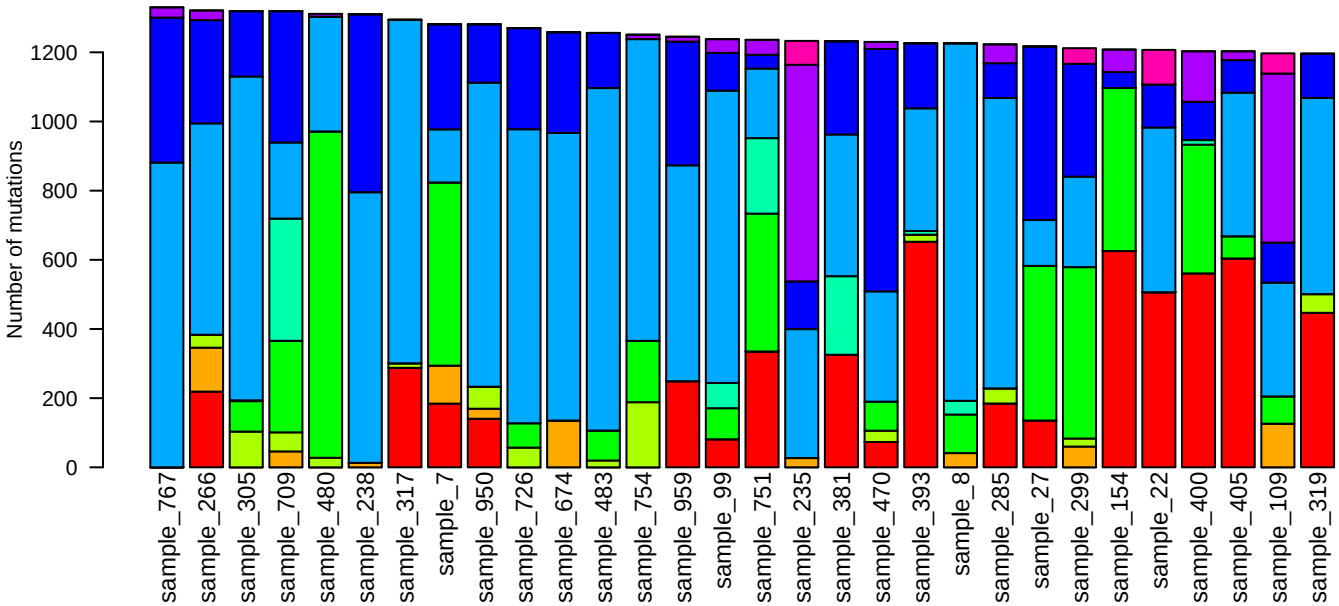
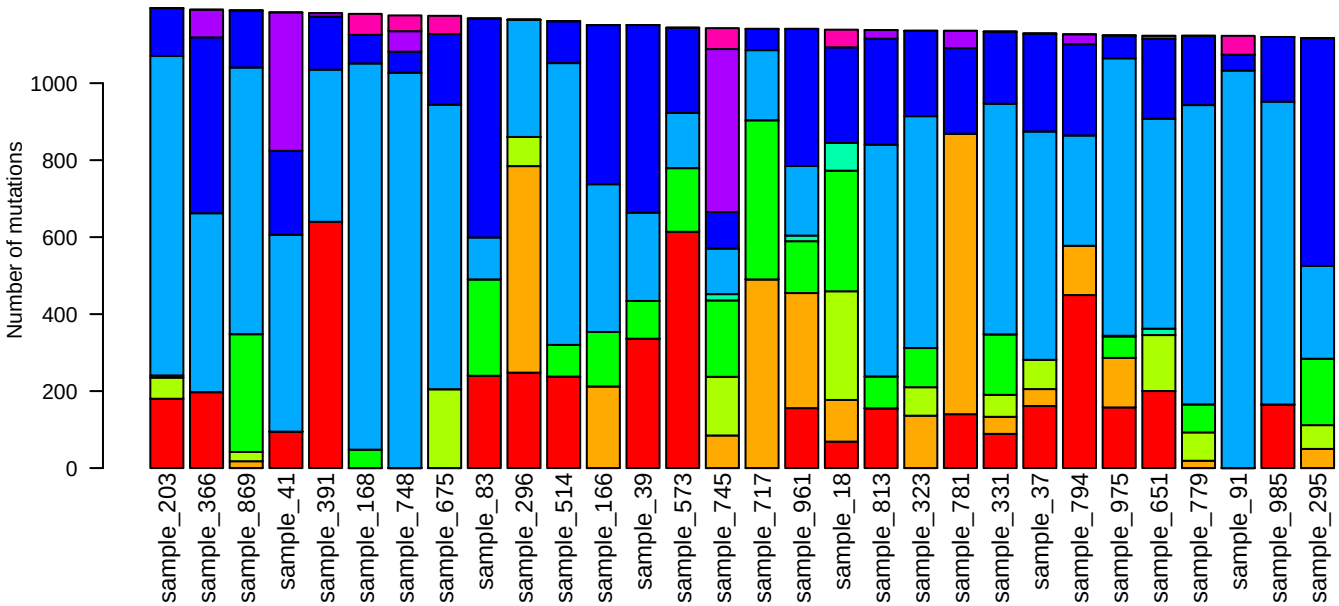

Number of mutations
0
500
1000
1500
2000
2500
Mutational signature
SBS31
X8_1.0_SBS15 0.95
X7_0.97_SBS46 0.9
X6_1.0_NA
X5_1.0_SBS52 0.93
X4_0.94_NA
X3_0.99_NA
X2_0.98_NA
X1_0.98_NA
sample_51
sample_660
sample_58
sample_38
sample_517
sample_742
sample_146
sample_664
sample_98
sample_761
sample_536
sample_818
sample_679
sample_814
sample_447
sample_118
sample_822
sample_321
sample_65
sample_815
sample_759
sample_219
sample_720
sample_782
sample_92
sample_947
sample_571
sample_939
sample_123
sample_77

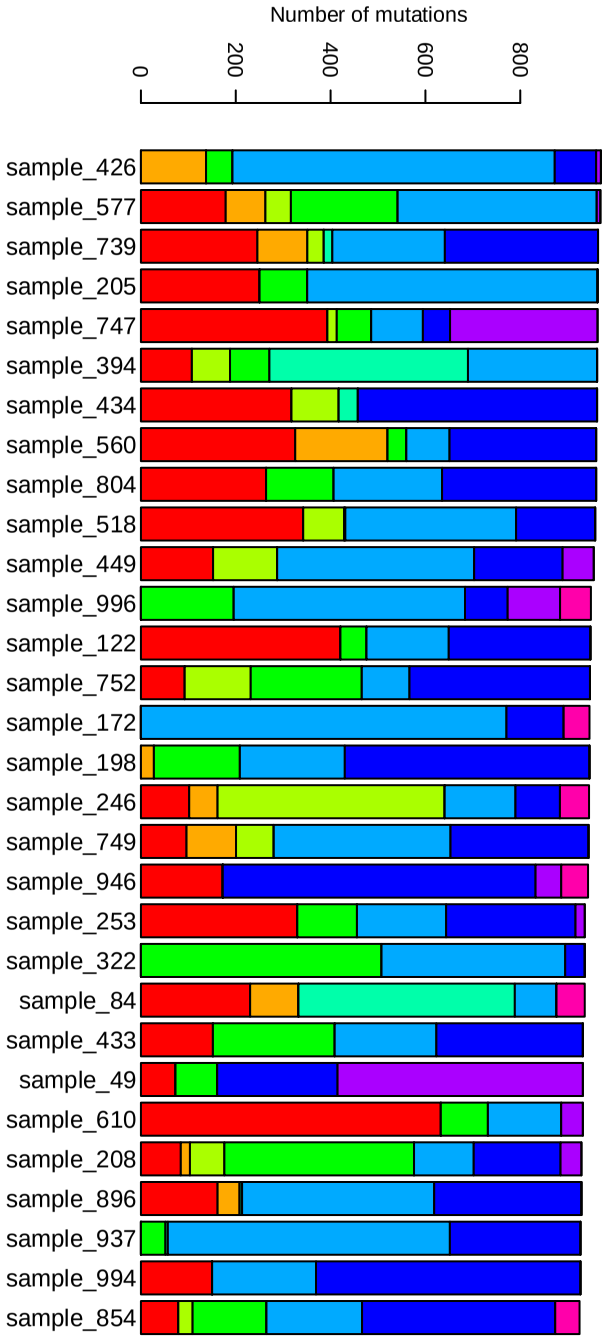

Number of mutations
0
500
1000
1500
2000
sample_191
sample_603
sample_556
sample_441
sample_492
sample_990
sample_734
sample_178
sample_753
sample_23
sample_446
sample_696
sample_130
sample_557
sample_448
sample_106
sample_657
sample_774
sample_436
sample_365
sample_401
sample_622
sample_863
sample_636
sample_209
sample_516
sample_531
sample_895
sample_927
sample_87

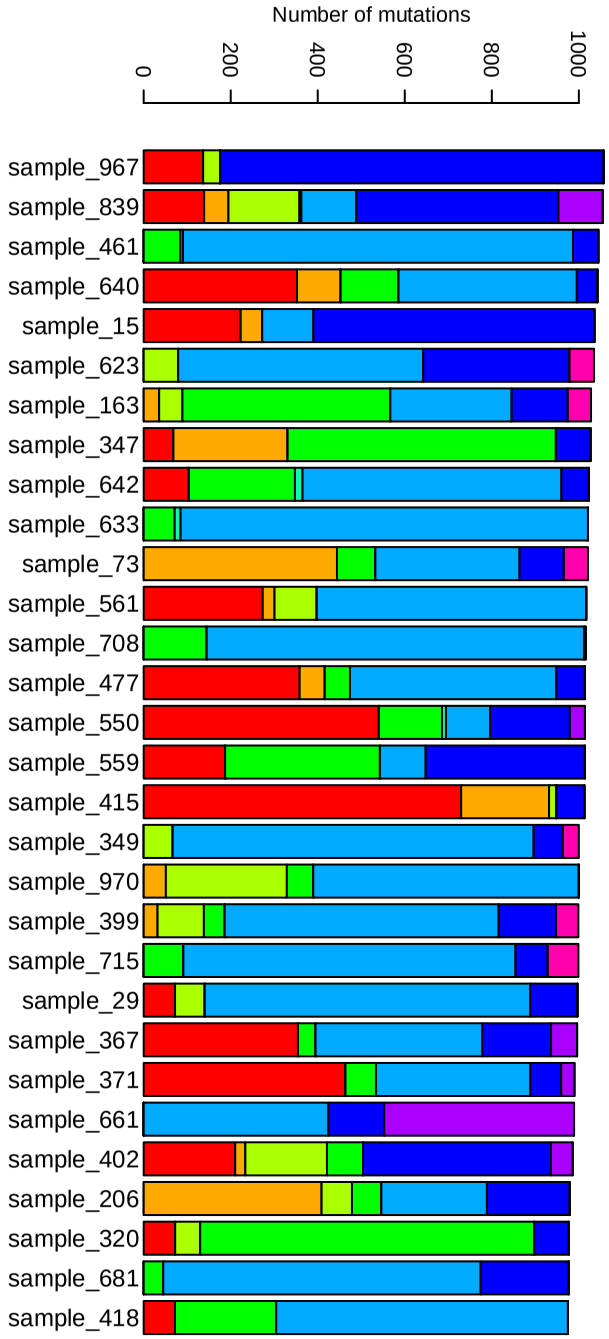

Number of mutations
0
500
1000
1500
sample_667
sample_56
sample_278
sample_989
sample_304
sample_543
sample_983
sample_968
sample_589
sample_216
sample_731
sample_475
sample_462
sample_330
sample_916
sample_705
sample_431
sample_495
sample_936
sample_512
sample_562
sample_314
sample_973
sample_883
sample_306
sample_992
sample_28
sample_53
sample_310
sample_594

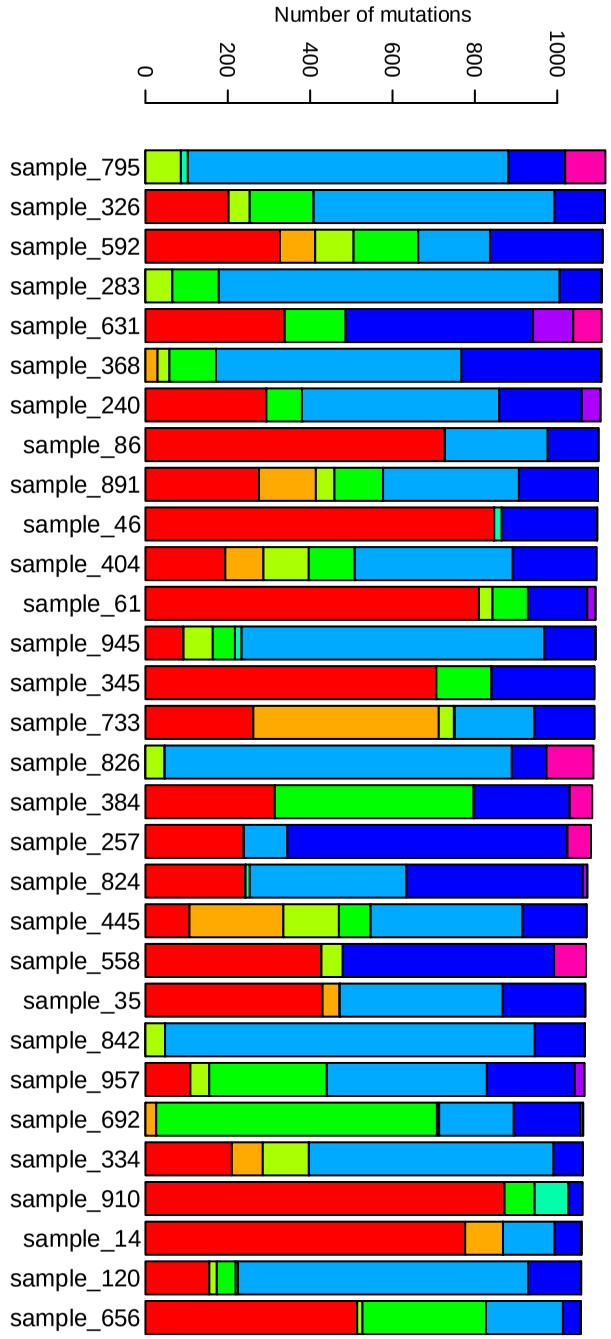

Number of mutations
0
200
400
600
800
1000
1200
1400
sample_808
sample_312
sample_245
sample_732
sample_81
sample_862
sample_148
sample_906
sample_671
sample_466
sample_728
sample_284
sample_50
sample_624
sample_396
sample_706
sample_398
sample_503
sample_627
sample_540
sample_740
sample_427
sample_659
sample_139
sample_96
sample_182
sample_637
sample_609
sample_615
sample_648

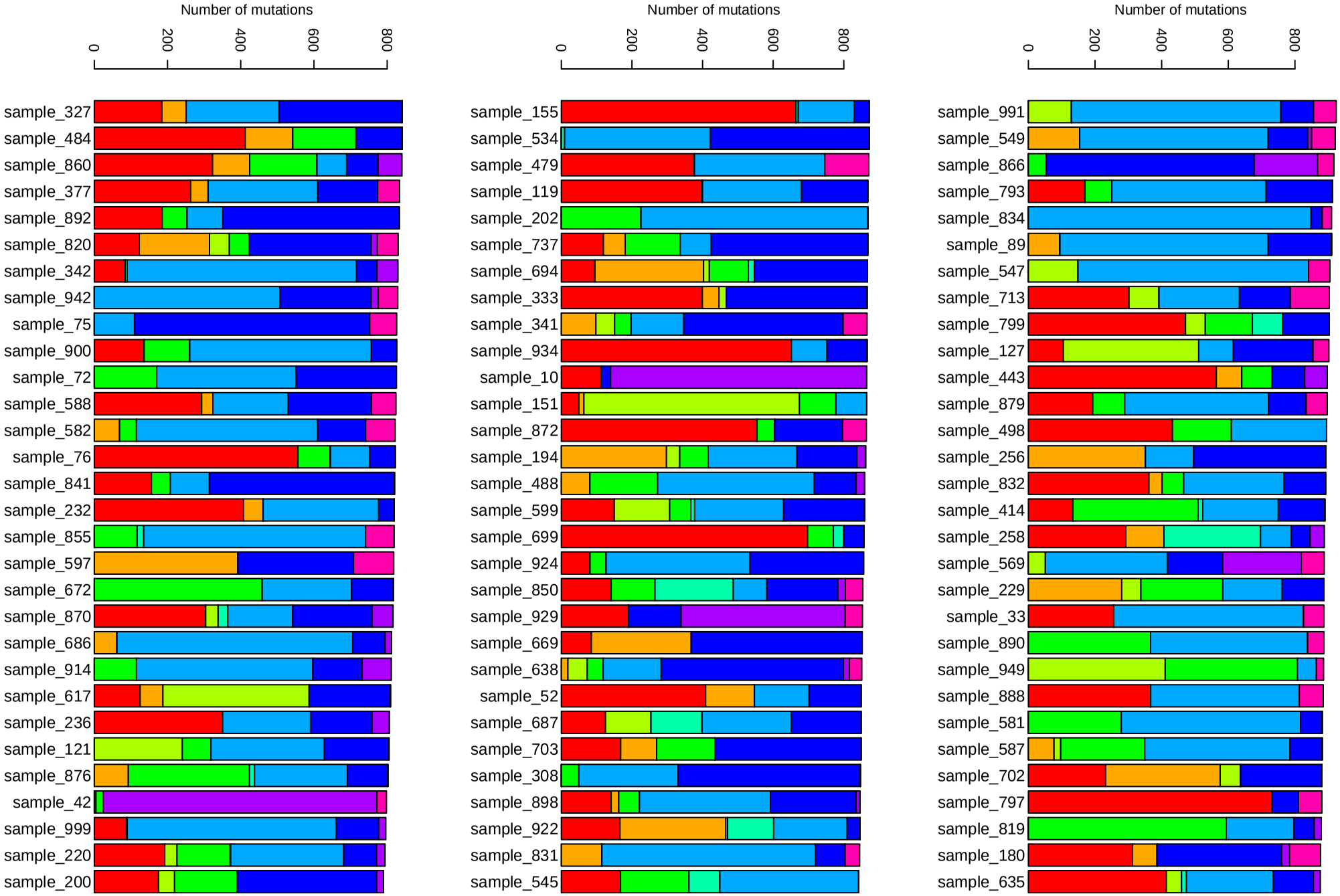

Number of mutations
0
200
400
600
800
1000
1200
sample_767
sample_266
sample_305
sample_709
sample_480
sample_238
sample_317
sample_7
sample_950
sample_726
sample_674
sample_483
sample_754
sample_959
sample_99
sample_751
sample_235
sample_381
sample_470
sample_393
sample_8
sample_285
sample_27
sample_299
sample_154
sample_22
sample_400
sample_405
sample_109
sample_319

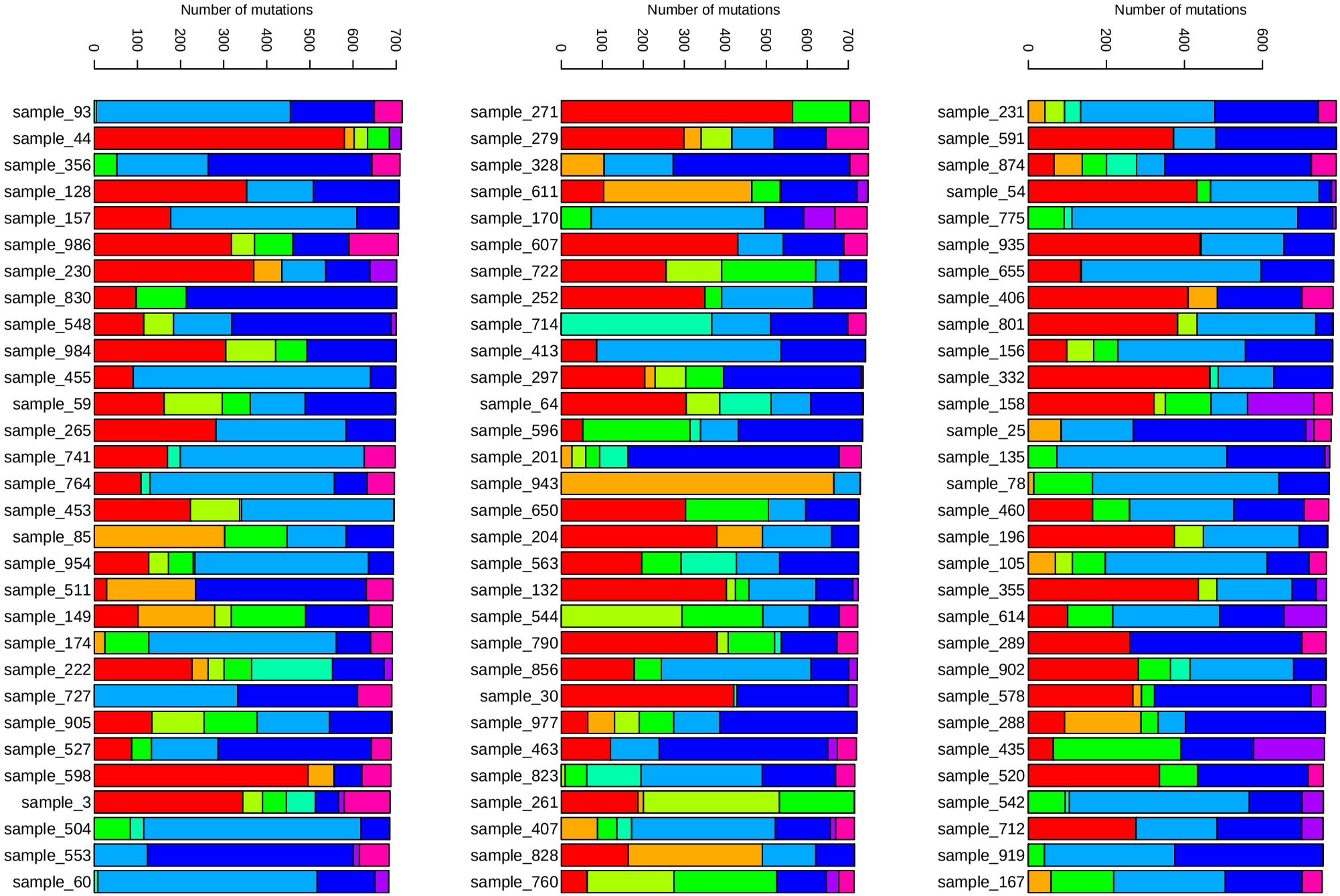

Number of mutations
0
200
400
600
800
1000
sample_203
sample_366
sample_869
sample_41
sample_391
sample_168
sample_748
sample_675
sample_83
sample_296
sample_514
sample_166
sample_39
sample_573
sample_745
sample_717
sample_961
sample_18
sample_813
sample_323
sample_781
sample_331
sample_37
sample_794
sample_975
sample_651
sample_779
sample_91
sample_985
sample_295

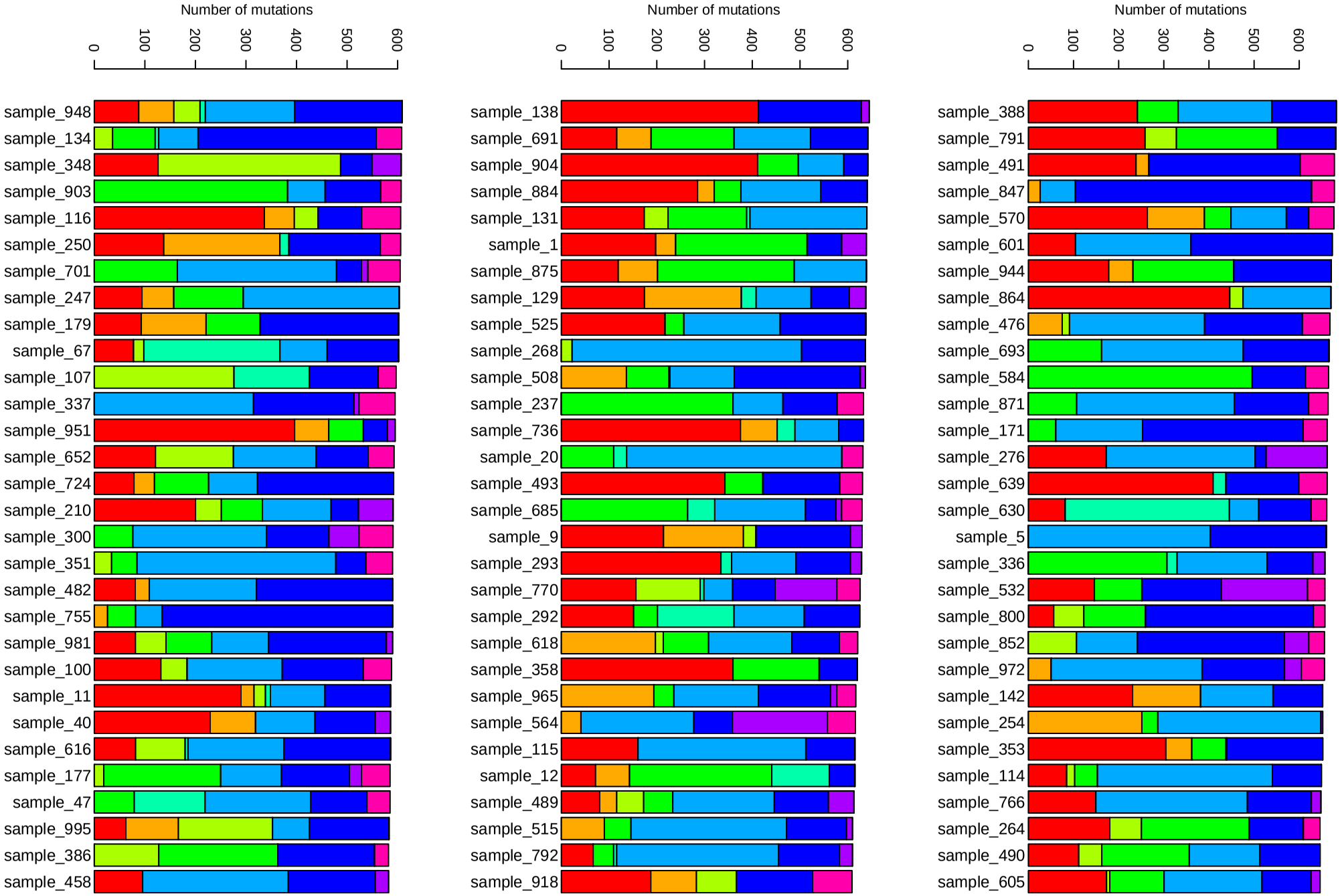

Number of mutations
0
200
400
600
800
sample_426
sample_577
sample_739
sample_205
sample_747
sample_394
sample_434
sample_560
sample_804
sample_518
sample_449
sample_996
sample_122
sample_752
sample_172
sample_198
sample_246
sample_749
sample_946
sample_253
sample_322
sample_84
sample_433
sample_49
sample_610
sample_208
sample_896
sample_937
sample_994
sample_854

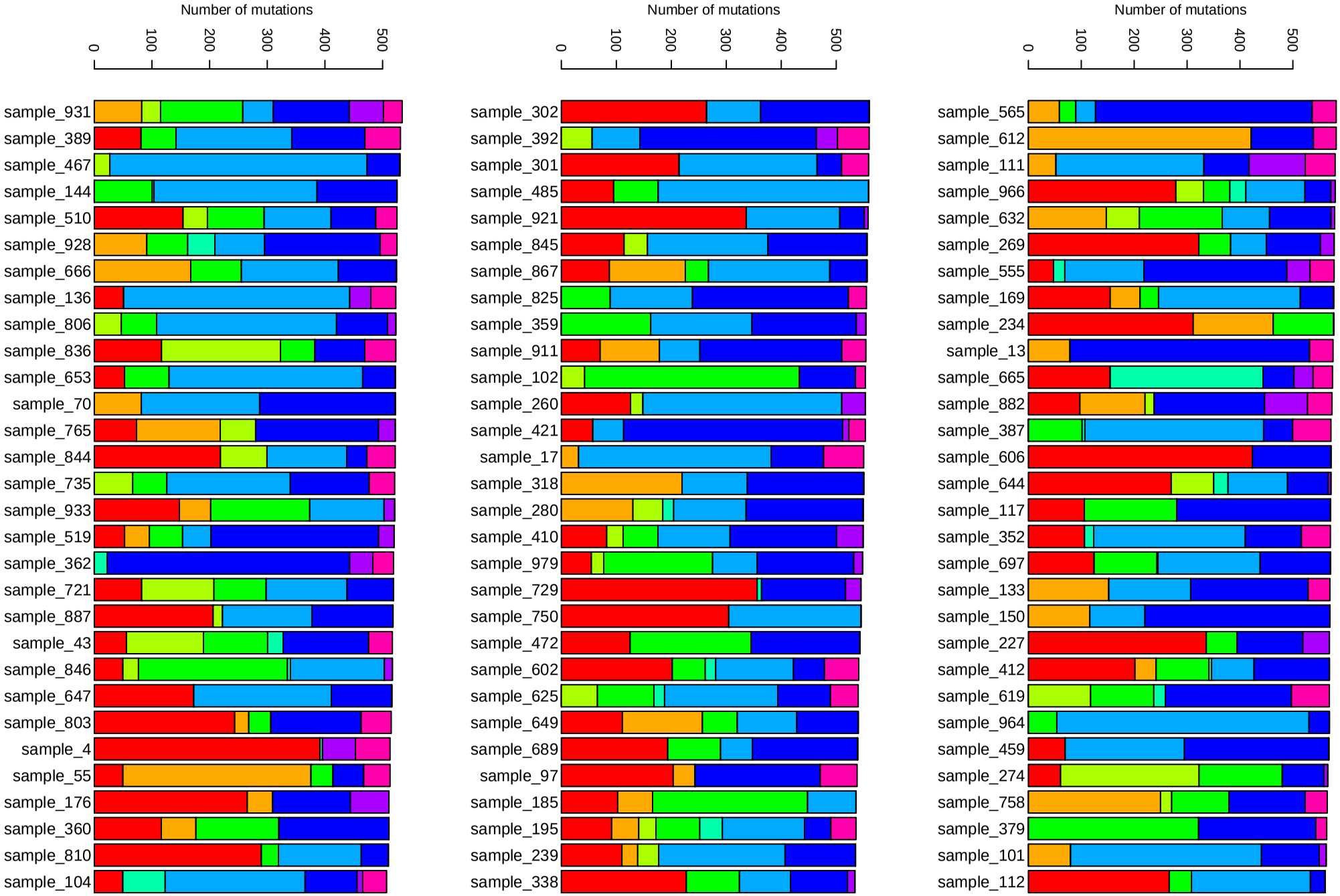

Number of mutations
0
200
400
600
800
1000
sample_967
sample_839
sample_461
sample_640
sample_15
sample_623
sample_163
sample_347
sample_642
sample_633
sample_73
sample_561
sample_708
sample_477
sample_550
sample_559
sample_415
sample_349
sample_970
sample_399
sample_715
sample_29
sample_367
sample_371
sample_661
sample_402
sample_206
sample_320
sample_681
sample_418


Number of mutations
0
200
400
600
800
1000
sample_795
sample_326
sample_592
sample_283
sample_631
sample_368
sample_240
sample_86
sample_891
sample_46
sample_404
sample_61
sample_945
sample_345
sample_733
sample_826
sample_384
sample_257
sample_824
sample_445
sample_558
sample_35
sample_842
sample_957
sample_692
sample_334
sample_910
sample_14
sample_120
sample_656


Number of mutations
0
200
400
600
800
sample_327
sample_484
sample_860
sample_377
sample_892
sample_820
sample_342
sample_942
sample_75
sample_900
sample_72
sample_588
sample_582
sample_76
sample_841
sample_232
sample_855
sample_597
sample_672
sample_870
sample_686
sample_914
sample_617
sample_236
sample_121
sample_876
sample_42
sample_999
sample_220
sample_200
Number of mutations
0
200
400
600
800
sample_155
sample_534
sample_479
sample_119
sample_202
sample_737
sample_694
sample_333
sample_341
sample_934
sample_10
sample_151
sample_872
sample_194
sample_488
sample_599
sample_699
sample_924
sample_850
sample_929
sample_669
sample_638
sample_52
sample_687
sample_703
sample_308
sample_898
sample_922
sample_831
sample_545
Number of mutations
0
200
400
600
800
sample_991
sample_549
sample_866
sample_793
sample_834
sample_89
sample_547
sample_713
sample_799
sample_127
sample_443
sample_879
sample_498
sample_256
sample_832
sample_414
sample_258
sample_569
sample_229
sample_33
sample_890
sample_949
sample_888
sample_581
sample_587
sample_702
sample_797
sample_819
sample_180
sample_635


Number of mutations
0
100
200
300
400
500
600
700
sample_93
sample_44
sample_356
sample_128
sample_157
sample_986
sample_230
sample_830
sample_548
sample_984
sample_455
sample_59
sample_265
sample_741
sample_764
sample_453
sample_85
sample_954
sample_511
sample_149
sample_174
sample_222
sample_727
sample_905
sample_527
sample_598
sample_3
sample_504
sample_553
sample_60
Number of mutations
0
100
200
300
400
500
600
700
sample_271
sample_279
sample_328
sample_611
sample_170
sample_607
sample_722
sample_252
sample_714
sample_413
sample_297
sample_64
sample_596
sample_201
sample_943
sample_650
sample_204
sample_563
sample_132
sample_544
sample_790
sample_856
sample_30
sample_977
sample_463
sample_823
sample_261
sample_407
sample_828
sample_760
Number of mutations
0
200
400
600
sample_231
sample_591
sample_874
sample_54
sample_775
sample_935
sample_655
sample_406
sample_801
sample_156
sample_332
sample_158
sample_25
sample_135
sample_78
sample_460
sample_196
sample_105
sample_355
sample_614
sample_289
sample_902
sample_578
sample_288
sample_435
sample_520
sample_542
sample_712
sample_919
sample_167


Number of mutations
0
100
200
300
400
500
600
sample_948
sample_134
sample_348
sample_903
sample_116
sample_250
sample_701
sample_247
sample_179
sample_67
sample_107
sample_337
sample_951
sample_652
sample_724
sample_210
sample_300
sample_351
sample_482
sample_755
sample_981
sample_100
sample_11
sample_40
sample_616
sample_177
sample_47
sample_995
sample_386
sample_458
Number of mutations
0
100
200
300
400
500
600
sample_138
sample_691
sample_904
sample_884
sample_131
sample_1
sample_875
sample_129
sample_525
sample_268
sample_508
sample_237
sample_736
sample_20
sample_493
sample_685
sample_9
sample_293
sample_770
sample_292
sample_618
sample_358
sample_965
sample_564
sample_115
sample_12
sample_489
sample_515
sample_792
sample_918
Number of mutations
0
100
200
300
400
500
600
sample_388
sample_791
sample_491
sample_847
sample_570
sample_601
sample_944
sample_864
sample_476
sample_693
sample_584
sample_871
sample_171
sample_276
sample_639
sample_630
sample_5
sample_336
sample_532
sample_800
sample_852
sample_972
sample_142
sample_254
sample_353
sample_114
sample_766
sample_264
sample_490
sample_605


Number of mutations
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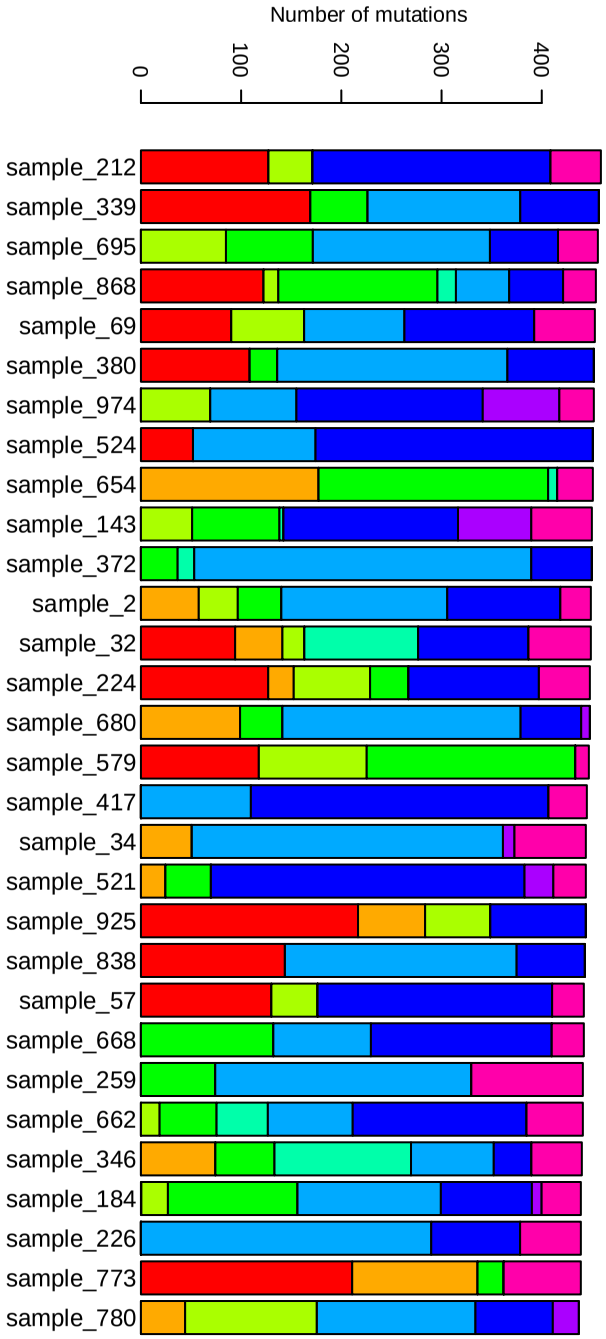
100
200
300
400
500
sample_931
sample_389
sample_467
sample_144
sample_510
sample_928
sample_666
sample_136
sample_806
sample_836
sample_653
sample_70
sample_765
sample_844
sample_735
sample_933
sample_519
sample_362
sample_721
sample_887
sample_43
sample_846
sample_647
sample_803
sample_4
sample_55
sample_176
sample_360
sample_810
sample_104
Number of mutations
0
100
200
300
400
500
sample_302
sample_392
sample_301
sample_485
sample_921
sample_845
sample_867
sample_825
sample_359
sample_911
sample_102
sample_260
sample_421
sample_17
sample_318
sample_280
sample_410
sample_979
sample_729
sample_750
sample_472
sample_602
sample_625
sample_649
sample_689
sample_97
sample_185
sample_195
sample_239
sample_338
Number of mutations
0
100
200
300
400
500
sample_565
sample_612
sample_111
sample_966
sample_632
sample_269
sample_555
sample_169
sample_234
sample_13
sample_665
sample_882
sample_387
sample_606
sample_644
sample_117
sample_352
sample_697
sample_133
sample_150
sample_227
sample_412
sample_619
sample_964
sample_459
sample_274
sample_758
sample_379
sample_101
sample_112


Number of mutations
0
100
200
300
400
sample_212
sample_339
sample_695
sample_868
sample_69
sample_380
sample_974
sample_524
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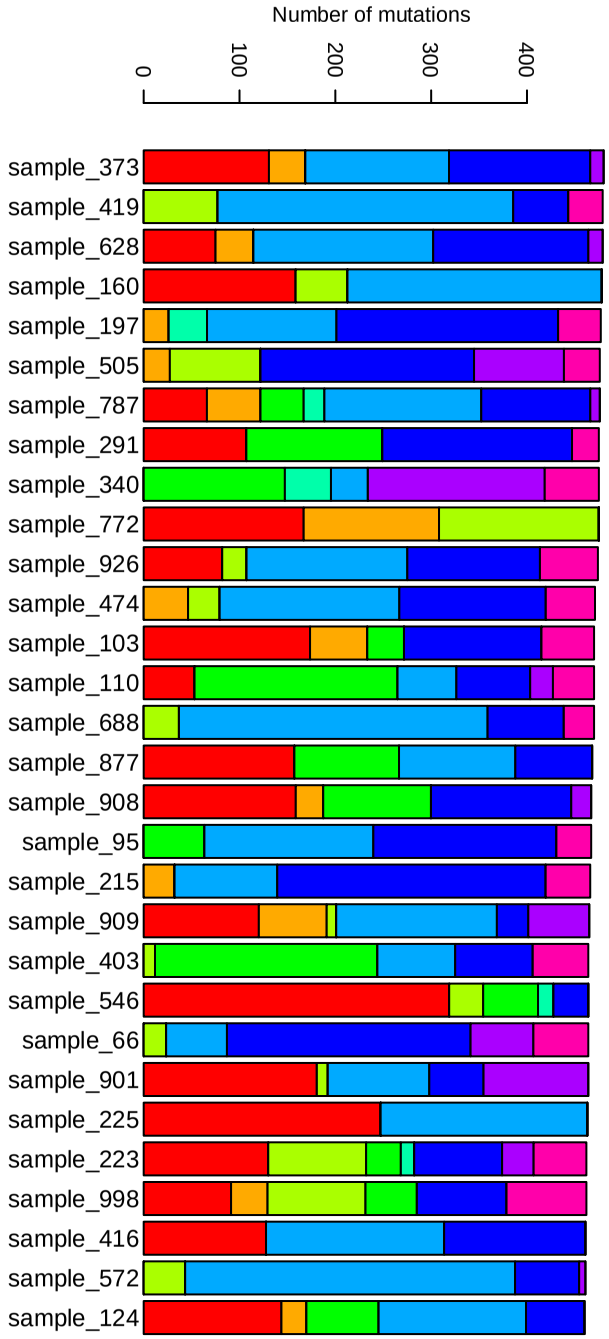
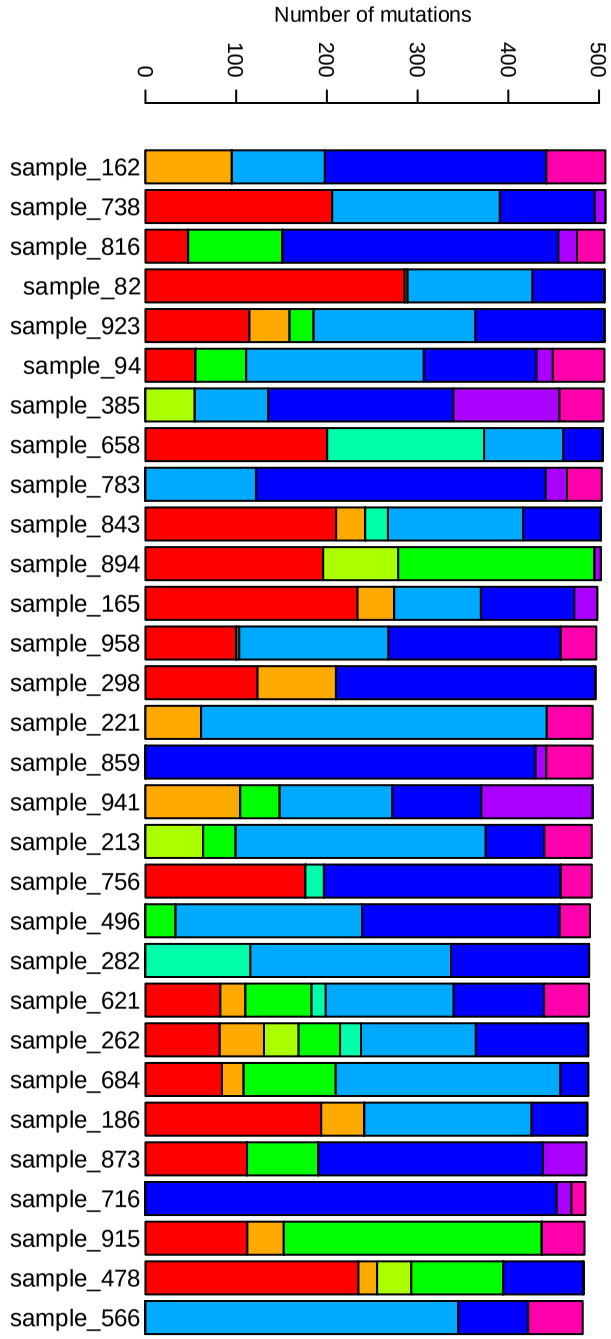
sample_143
sample_372
sample_2
sample_32
sample_224
sample_680
sample_579
sample_417
sample_34
sample_521
sample_925
sample_838
sample_57
sample_668
sample_259
sample_662
sample_346
sample_184
sample_226
sample_773
sample_780


Number of mutations
0
100
200
300
400
sample_373
sample_419
sample_628
sample_160
sample_197
sample_505
sample_787
sample_291
sample_340
sample_772
sample_926
sample_474
sample_103
sample_110
sample_688
sample_877
sample_908
sample_95
sample_215
sample_909
sample_403
sample_546
sample_66
sample_901
sample_225
sample_223
sample_998
sample_416
sample_572
sample_124


Number of mutations
0
100
200
300
400
500
sample_162
sample_738
sample_816
sample_82
sample_923
sample_94
sample_385
sample_658
sample_783
sample_843
sample_894
sample_165
sample_958
sample_298
sample_221
sample_859
sample_941
sample_213
sample_756
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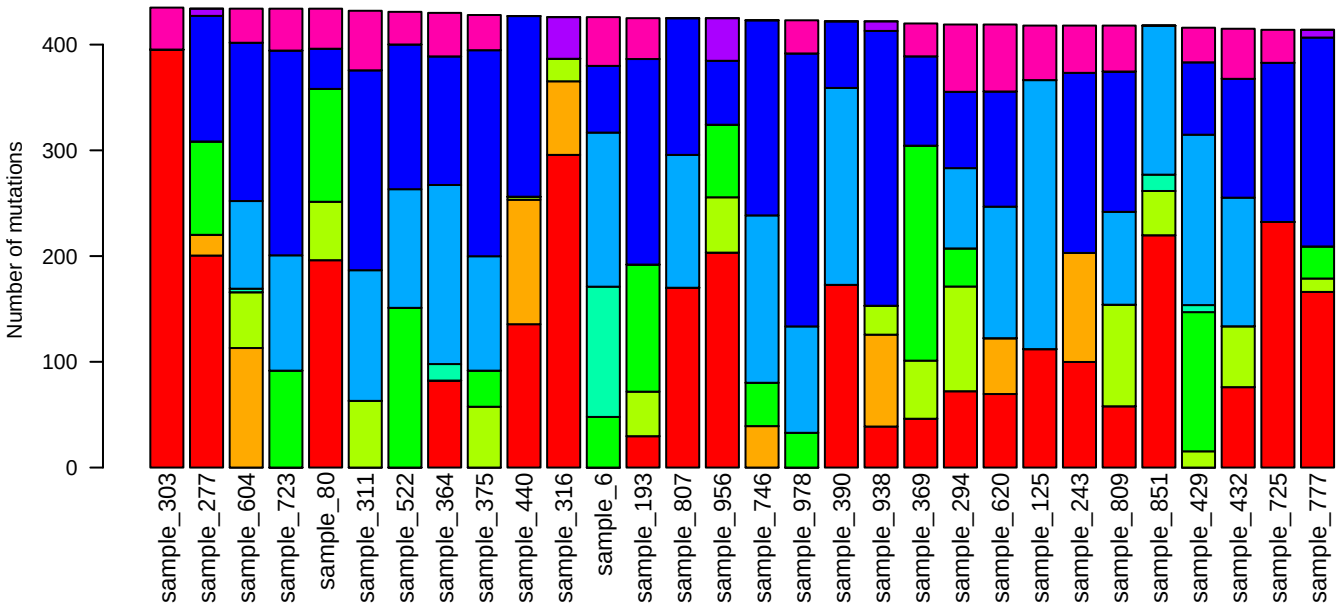
sample_621
sample_262
sample_684
sample_186
sample_873
sample_716
sample_915
sample_478
sample_566


Number of mutations
0
100
200
300
400
sample_303
sample_277
sample_604
sample_723
sample_80
sample_311
sample_522
sample_364
sample_375
sample_440
sample_316
sample_6
sample_193
sample_807
sample_956
sample_746
sample_978
sample_390
sample_938
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sample_294
sample_620
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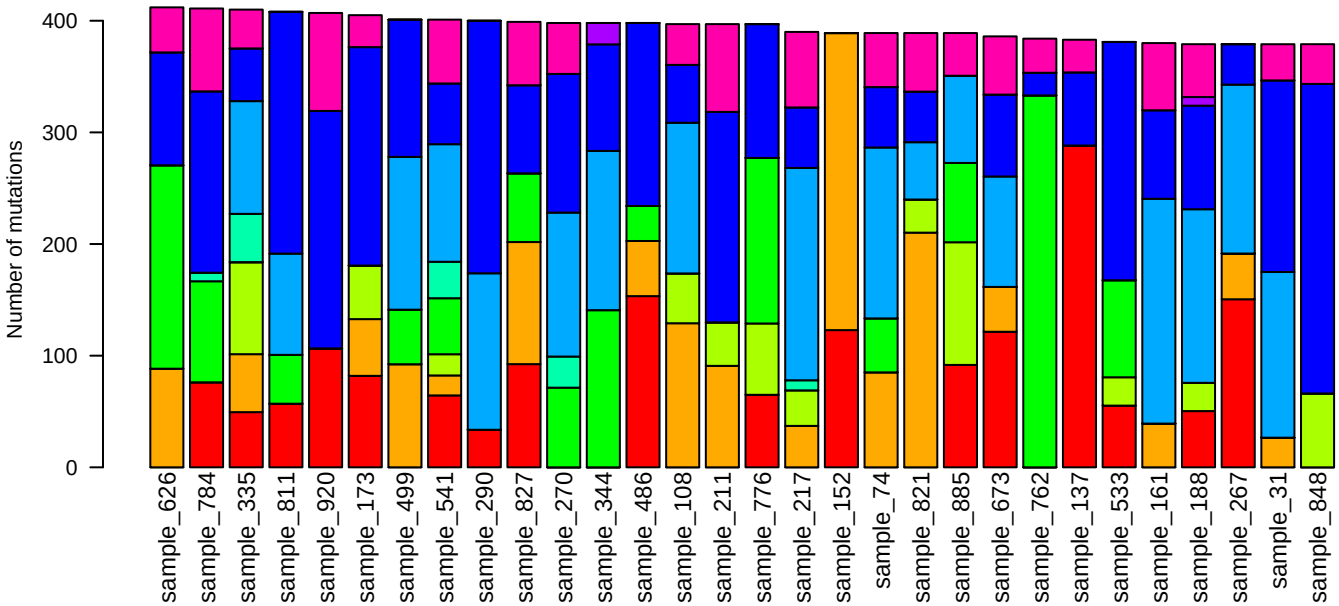
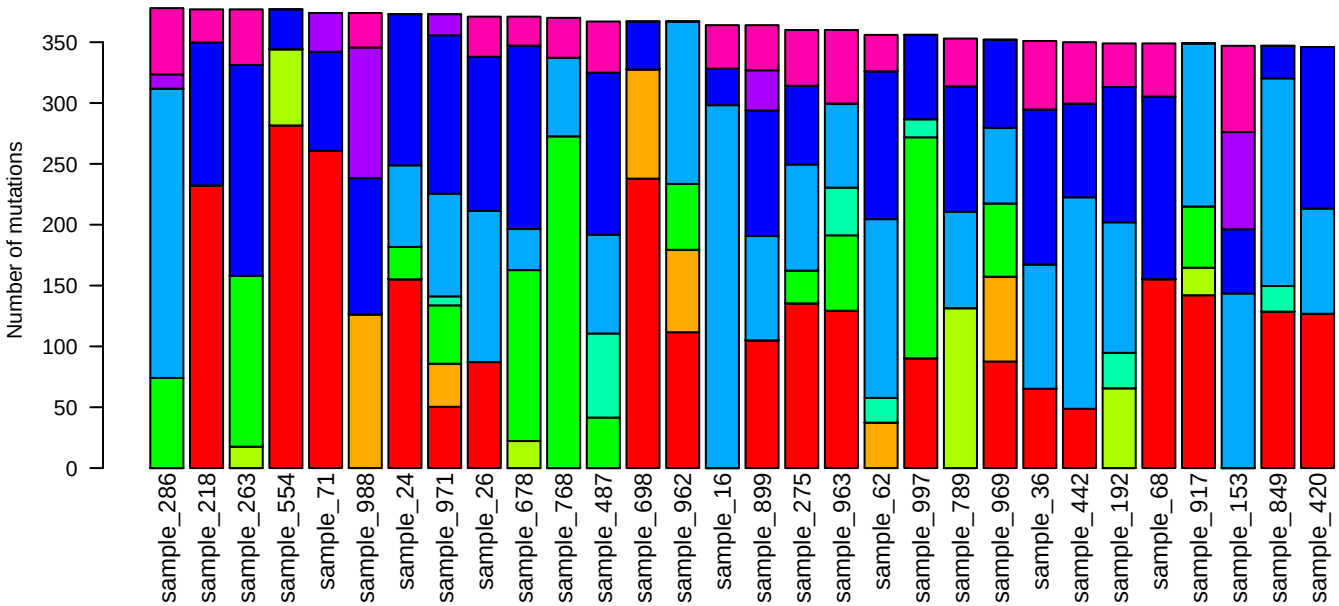
sample_243
sample_809
sample_851
sample_429
sample_432
sample_725
sample_777


Number of mutations
0
100
200
300
400
sample_626
sample_784
sample_335
sample_811
sample_920
sample_173
sample_499
sample_541
sample_290
sample_827
sample_270
sample_344
sample_486
sample_108
sample_211
sample_776
sample_217
sample_152
sample_74
sample_821
sample_885
sample_673
sample_762
sample_137
sample_533
sample_161
sample_188
sample_267
sample_31
sample_848


Number of mutations
0
50
100
150
200
250
300
350
sample_286
sample_218
sample_263
sample_554
sample_71
sample_988
sample_24
sample_971
sample_26
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sample_768
sample_487
sample_698
sample_962
sample_16
sample_899
sample_275
sample_963
sample_62
sample_997
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sample_969
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sample_442
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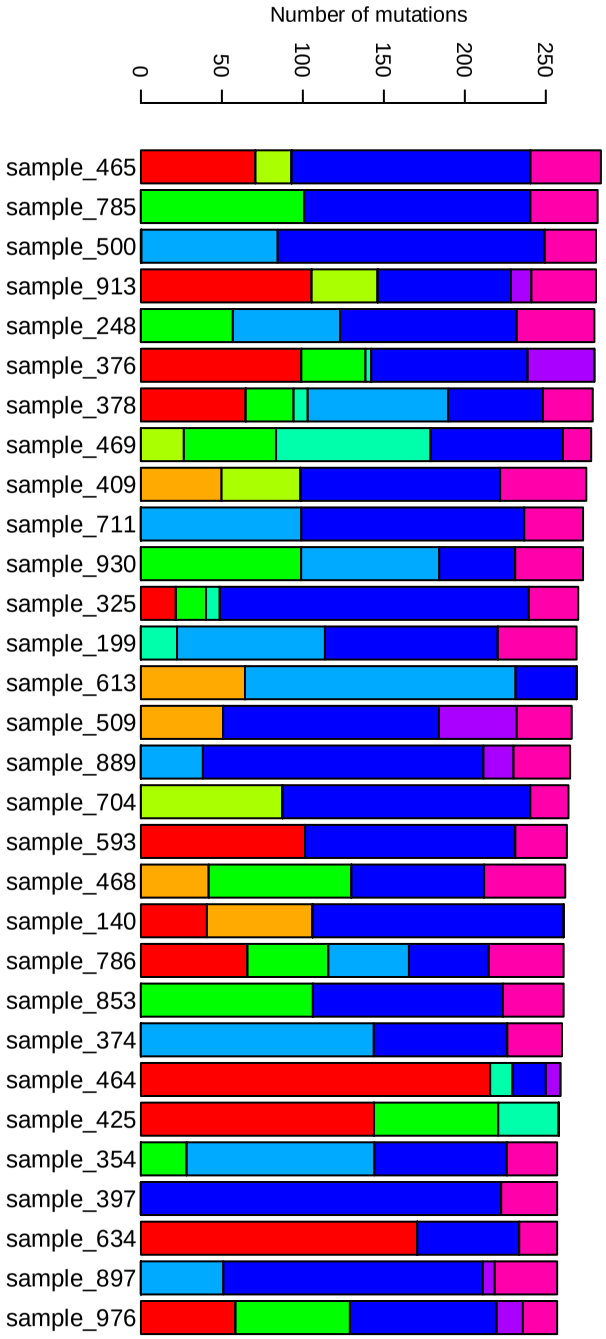
sample_917
sample_153
sample_849
sample_420


Number of mutations
0
50
100
150
200
250
sample_465
sample_785
sample_500
sample_913
sample_248
sample_376
sample_378
sample_469
sample_409
sample_711
sample_930
sample_325
sample_199
sample_613
sample_509
sample_889
sample_704
sample_593
sample_468
sample_140
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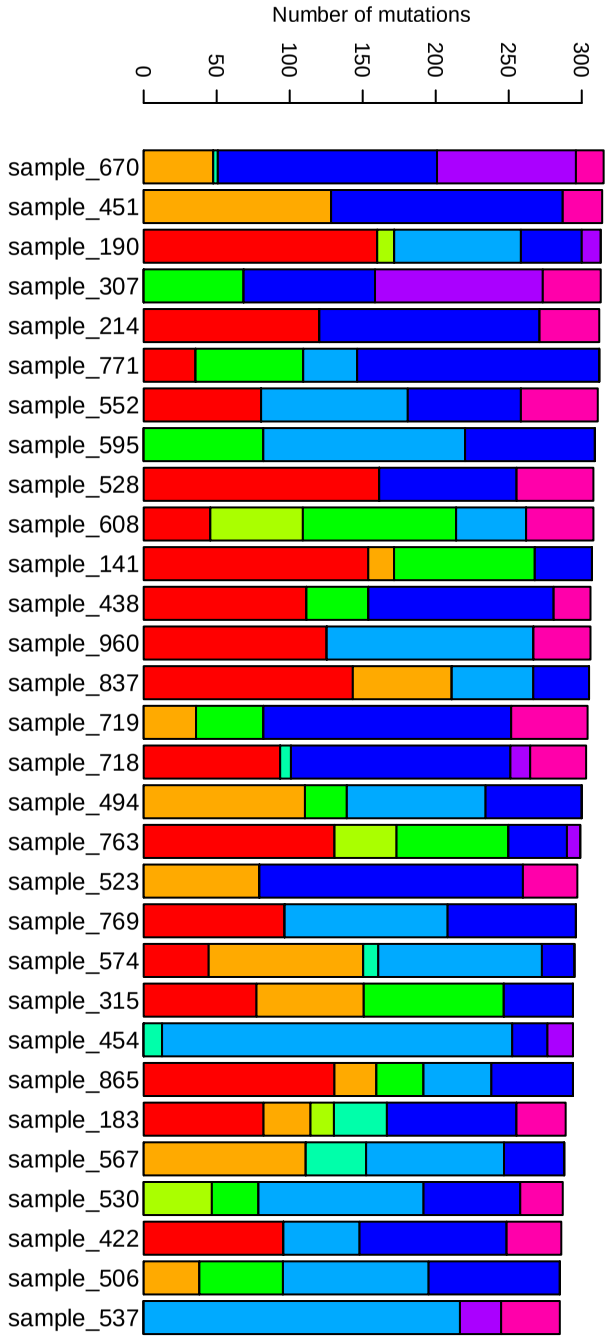
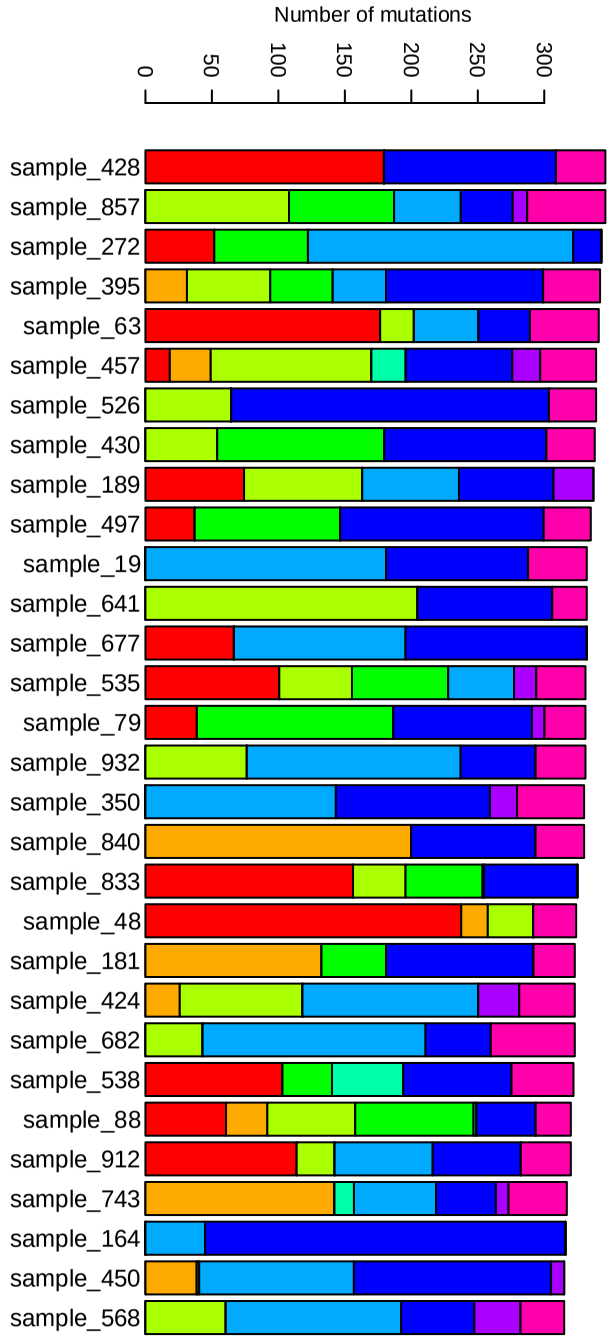
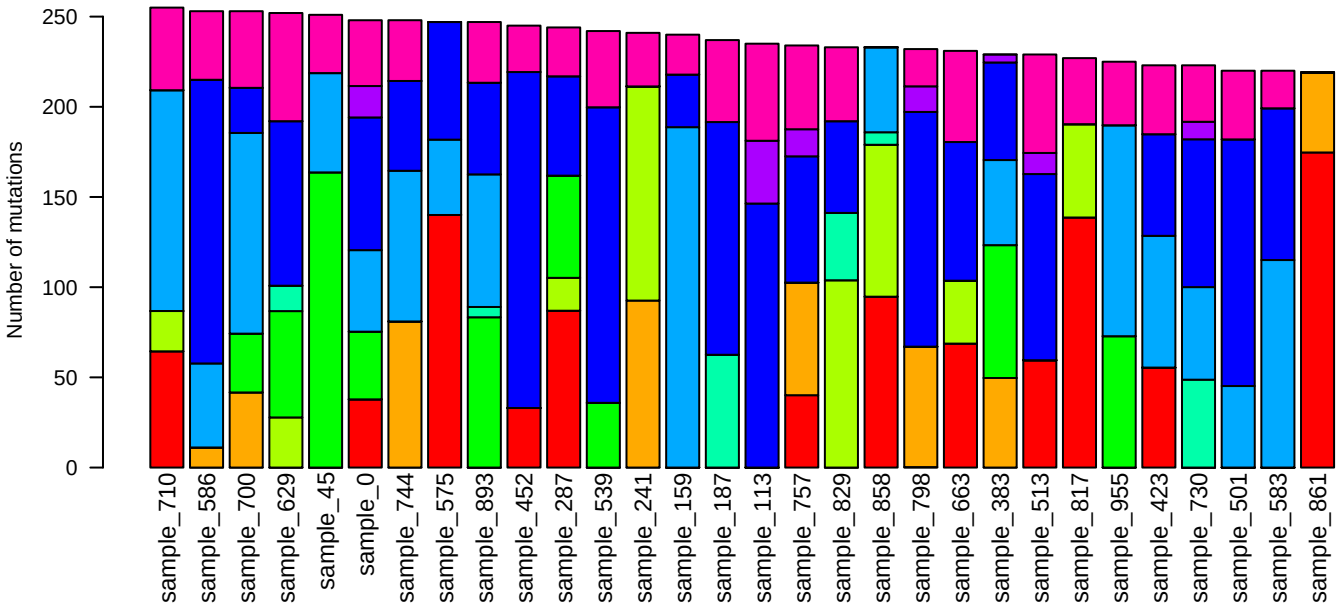
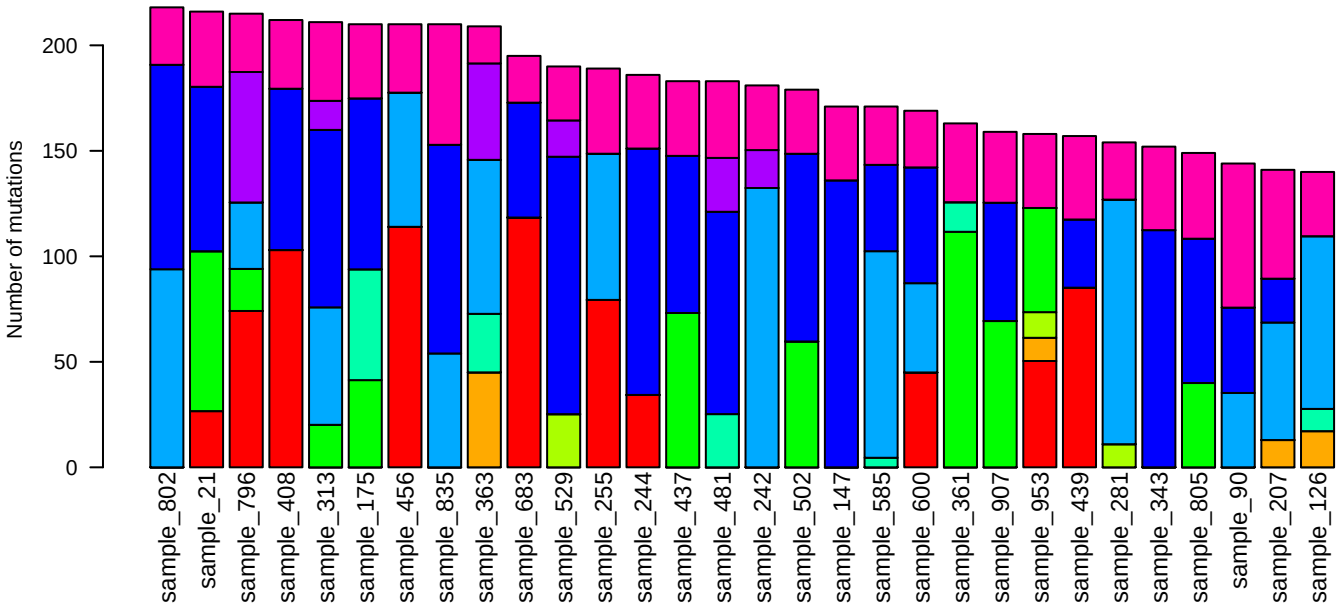
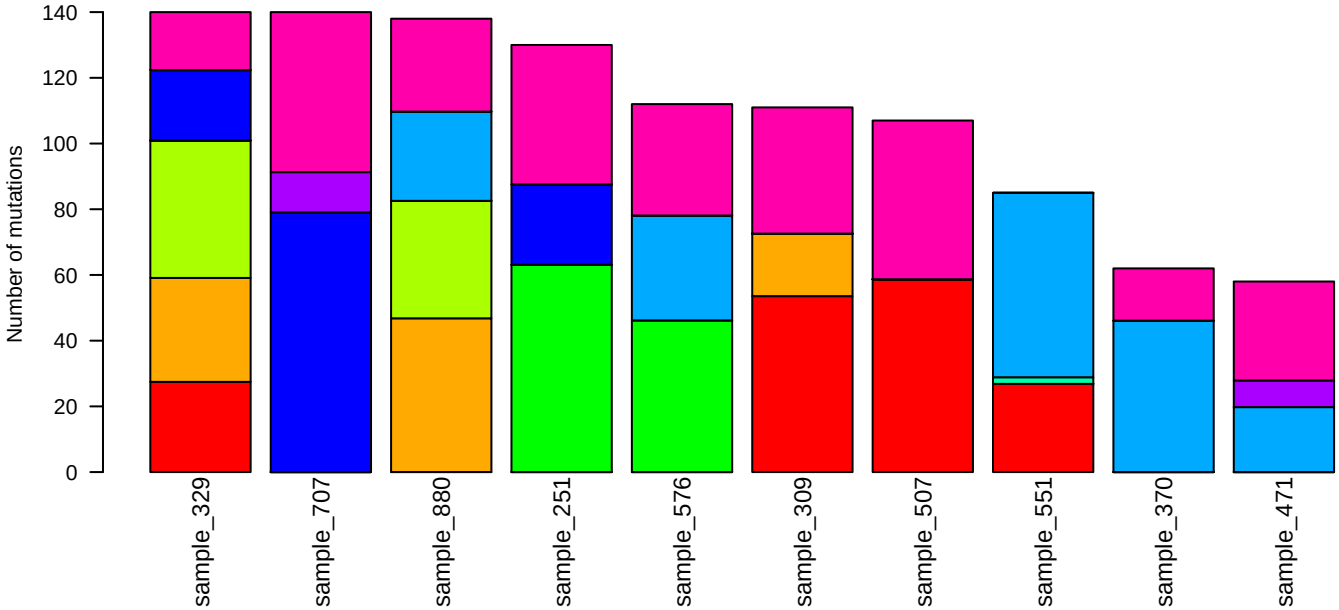
sample_853
sample_374
sample_464
sample_425
sample_354
sample_397
sample_634
sample_897
sample_976


Number of mutations
0
50
100
150
200
250
300
sample_670
sample_451
sample_190
sample_307
sample_214
sample_771
sample_552
sample_595
sample_528
sample_608
sample_141
sample_438
sample_960
sample_837
sample_719
sample_718
sample_494
sample_763
sample_523
sample_769
sample_574
sample_315
sample_454
sample_865
sample_183
sample_567
sample_530
sample_422
sample_506
sample_537


Number of mutations
0
50
100
150
200
250
300
sample_428
sample_857
sample_272
sample_395
sample_63
sample_457
sample_526
sample_430
sample_189
sample_497
sample_19
sample_641
sample_677
sample_535
sample_79
sample_932
sample_350
sample_840
sample_833
sample_48
sample_181
sample_424
sample_682
sample_538
sample_88
sample_912
sample_743
sample_164
sample_450
sample_568


Number of mutations
0
50
100
150
200
250
sample_710
sample_586
sample_700
sample_629
sample_45
sample_0
sample_744
sample_575
sample_893
sample_452
sample_287
sample_539
sample_241
sample_159
sample_187
sample_113
sample_757
sample_829
sample_858
sample_798
sample_663
sample_383
sample_513
sample_817
sample_955
sample_423
sample_730
sample_501
sample_583
sample_861


Number of mutations
0
50
100
150
200
sample_802
sample_21
sample_796
sample_408
sample_313
sample_175
sample_456
sample_835
sample_363
sample_683
sample_529
sample_255
sample_244
sample_437
sample_481
sample_242
sample_502
sample_147
sample_585
sample_600
sample_361
sample_907
sample_953
sample_439
sample_281
sample_343
sample_805
sample_90
sample_207
sample_126


Number of mutations
0
20
40
60
80
100
120
140
sample_329
sample_707
sample_880
sample_251
sample_576
sample_309
sample_507
sample_551
sample_370
sample_471