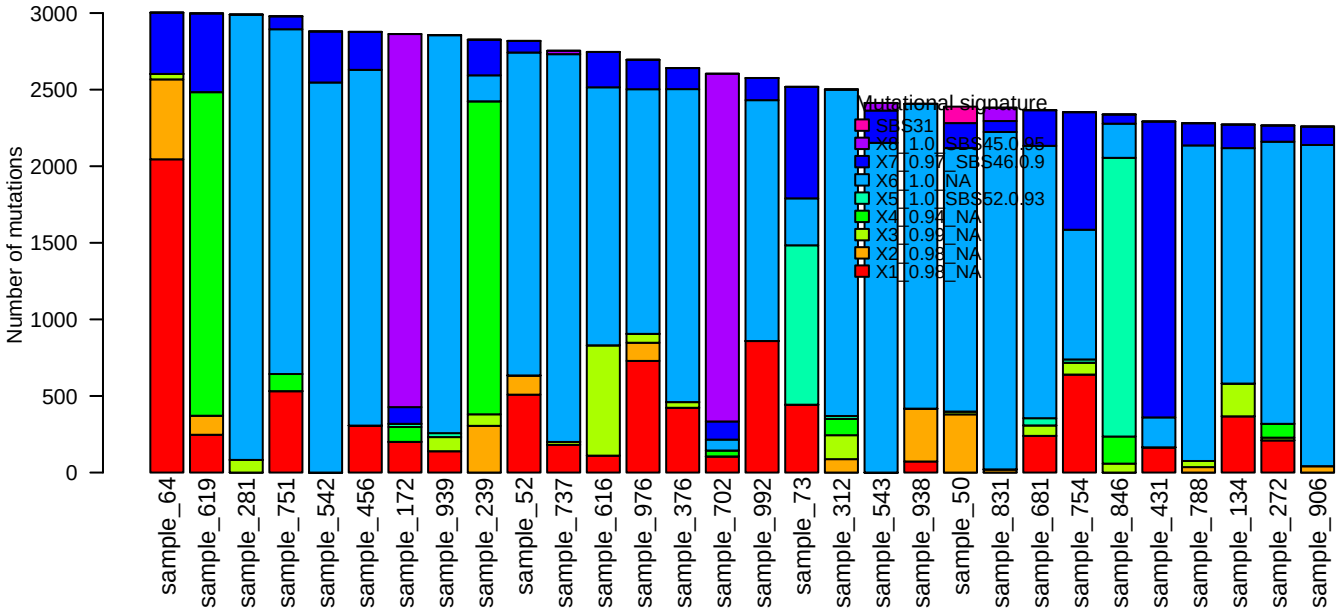
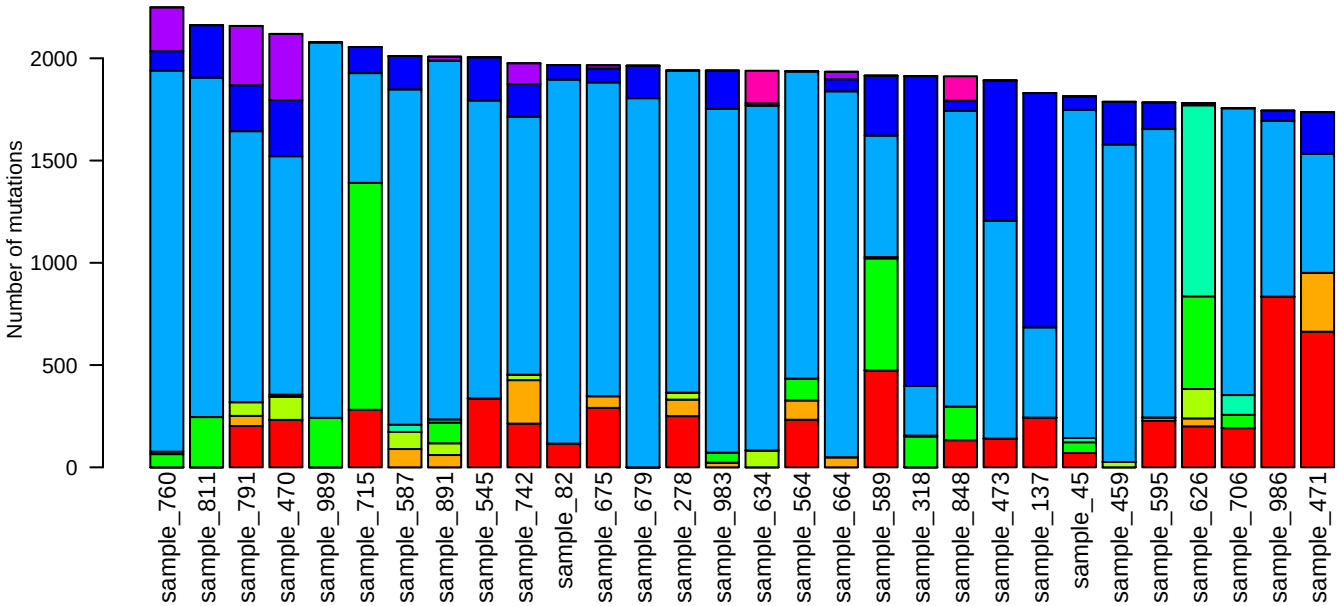

Number of mutations
0
500
1000
1500
2000
2500
3000
Mutational signature
SBS31
X8_1.0_SBS45.0.95
X7_0.97_SBS46.0.9
X6_1.0_NA
X5_1.0_SBS52.0.93
X4_0.94_NA
X3_0.99_NA
X2_0.98_NA
X1_0.98_NA
sample_64
sample_619
sample_281
sample_751
sample_542
sample_456
sample_172
sample_939
sample_239
sample_52
sample_737
sample_616
sample_976
sample_376
sample_702
sample_992
sample_73
sample_312
sample_543
sample_938
sample_50
sample_831
sample_681
sample_754
sample_846
sample_431
sample_788
sample_134
sample_272
sample_906


Number of mutations
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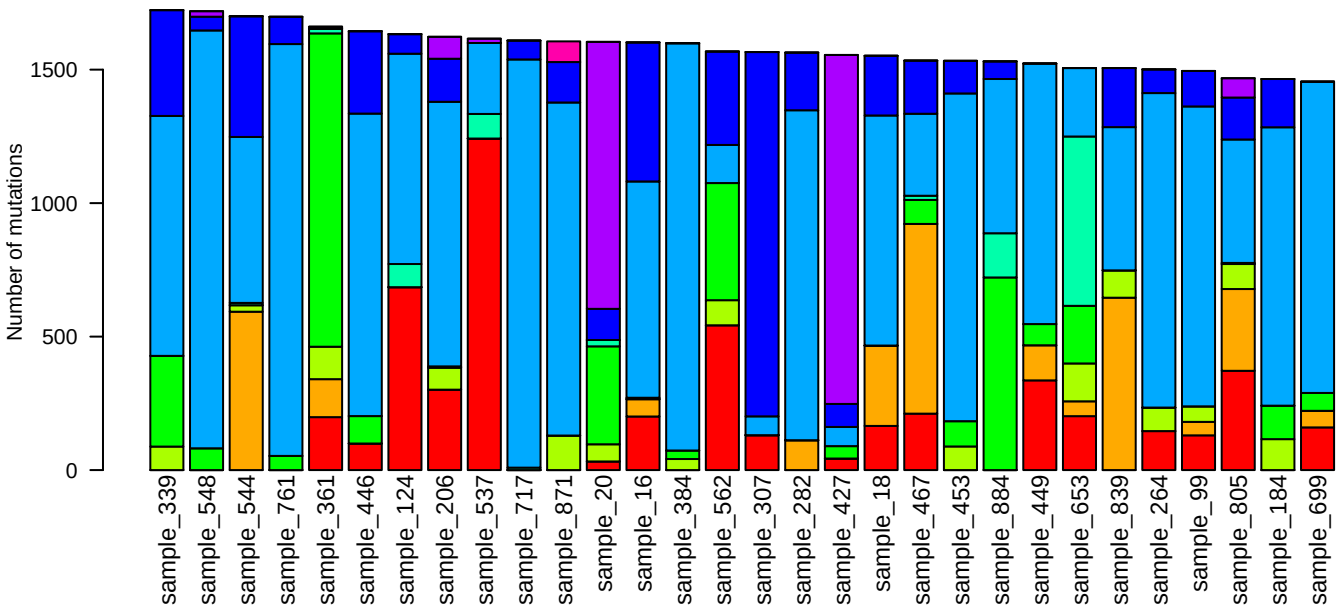
1000
1500
2000
sample_760
sample_811
sample_791
sample_470
sample_989
sample_715
sample_587
sample_891
sample_545
sample_742
sample_82
sample_675
sample_679
sample_278
sample_983
sample_634
sample_564
sample_664
sample_589
sample_318
sample_848
sample_473
sample_137
sample_45
sample_459
sample_595
sample_626
sample_706
sample_986
sample_471


Number of mutations
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500
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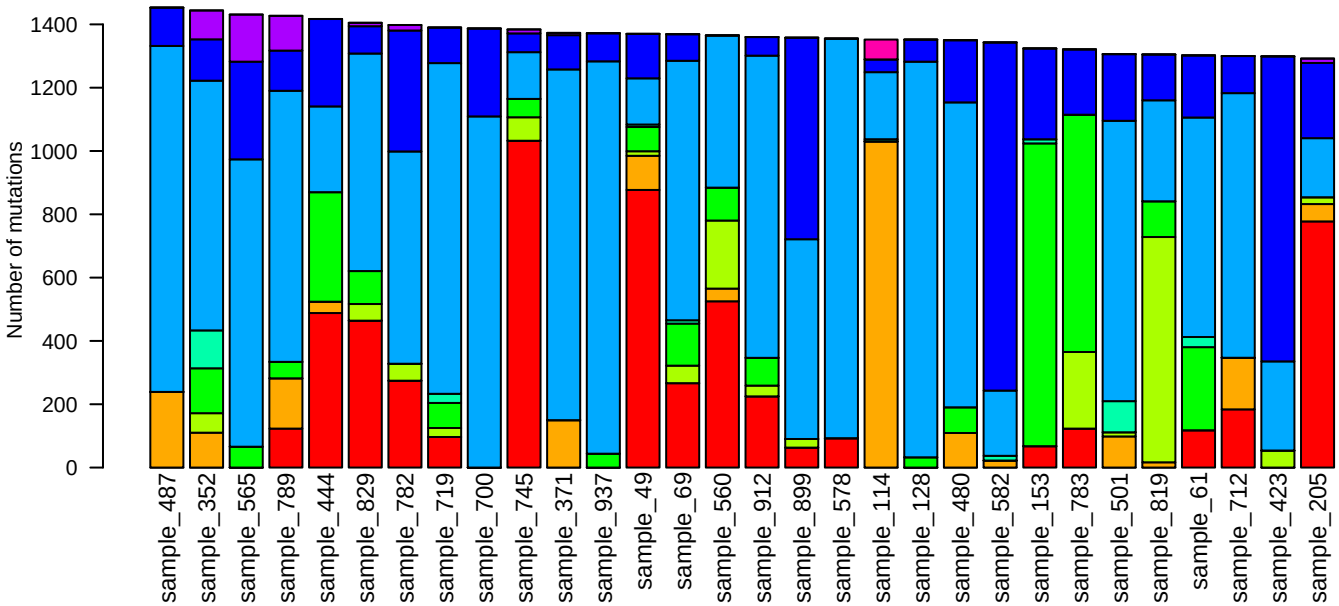
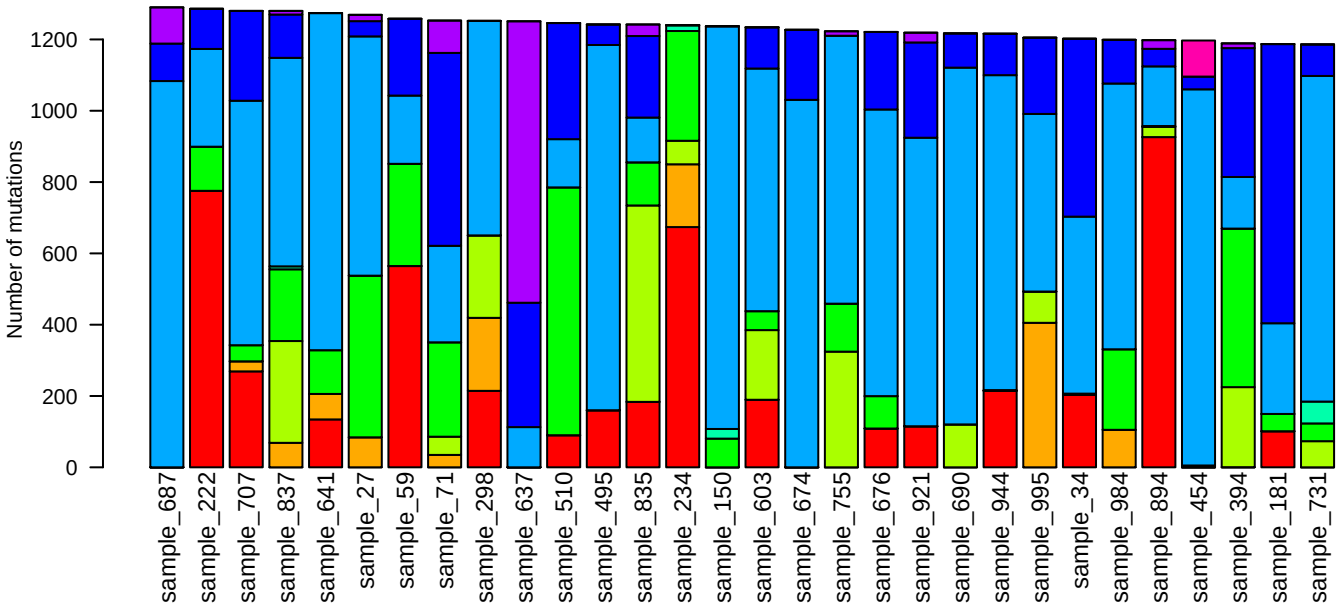
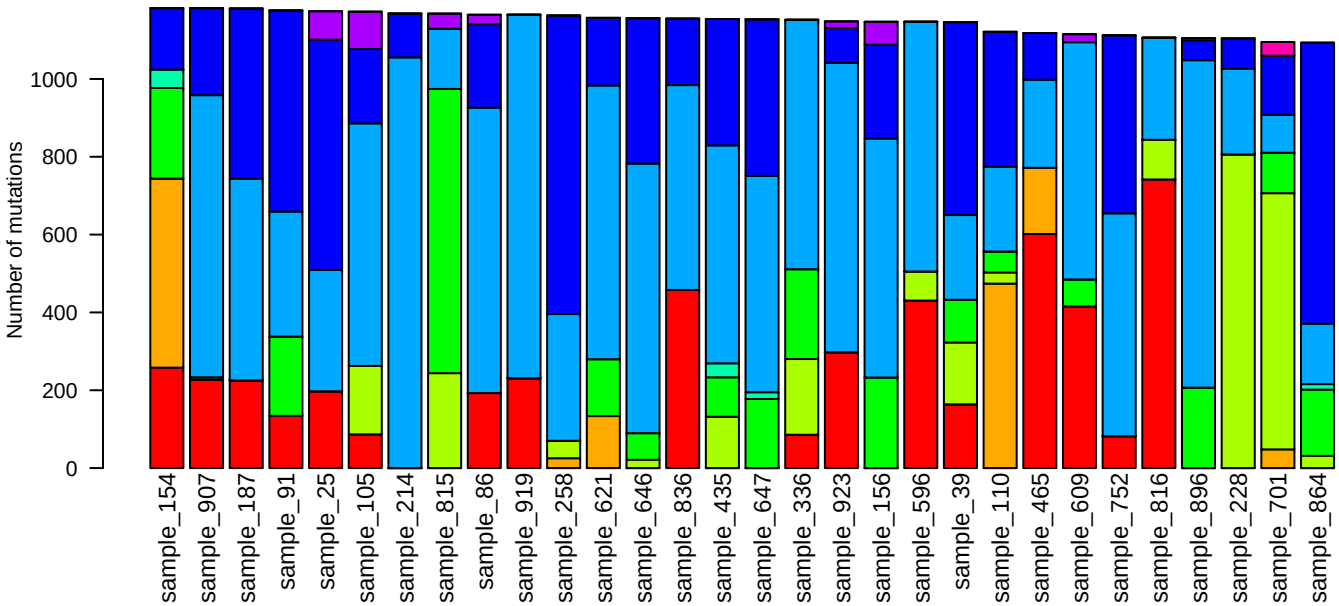
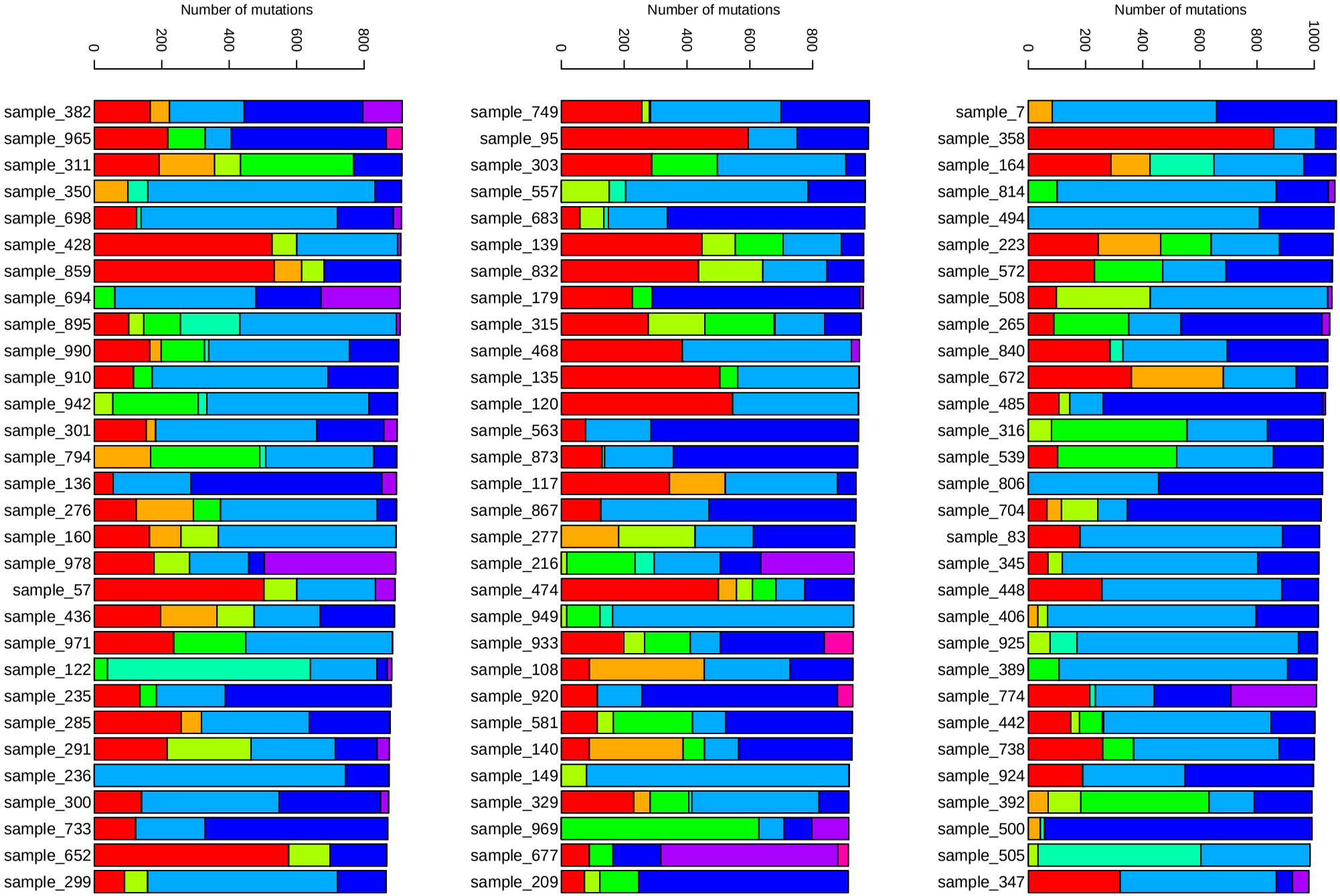
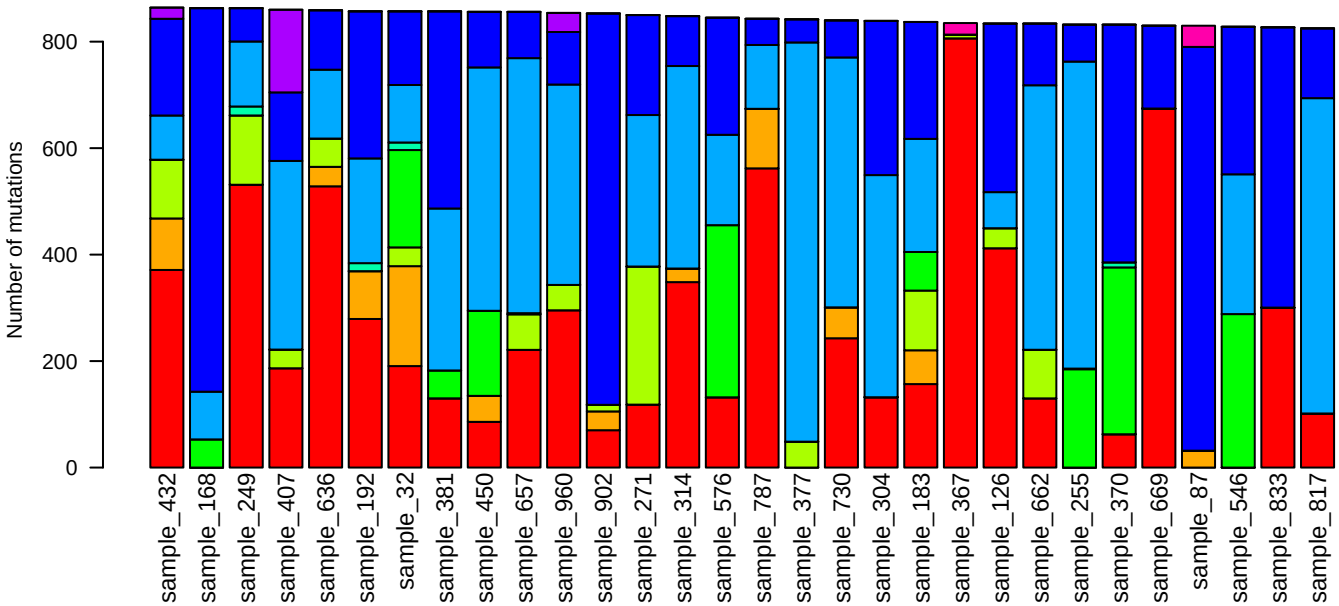
1500
sample_339
sample_548
sample_544
sample_761
sample_361
sample_446
sample_124
sample_206
sample_537
sample_717
sample_871
sample_20
sample_16
sample_384
sample_562
sample_307
sample_282
sample_427
sample_18
sample_467
sample_453
sample_884
sample_449
sample_653
sample_839
sample_264
sample_99
sample_805
sample_184
sample_699

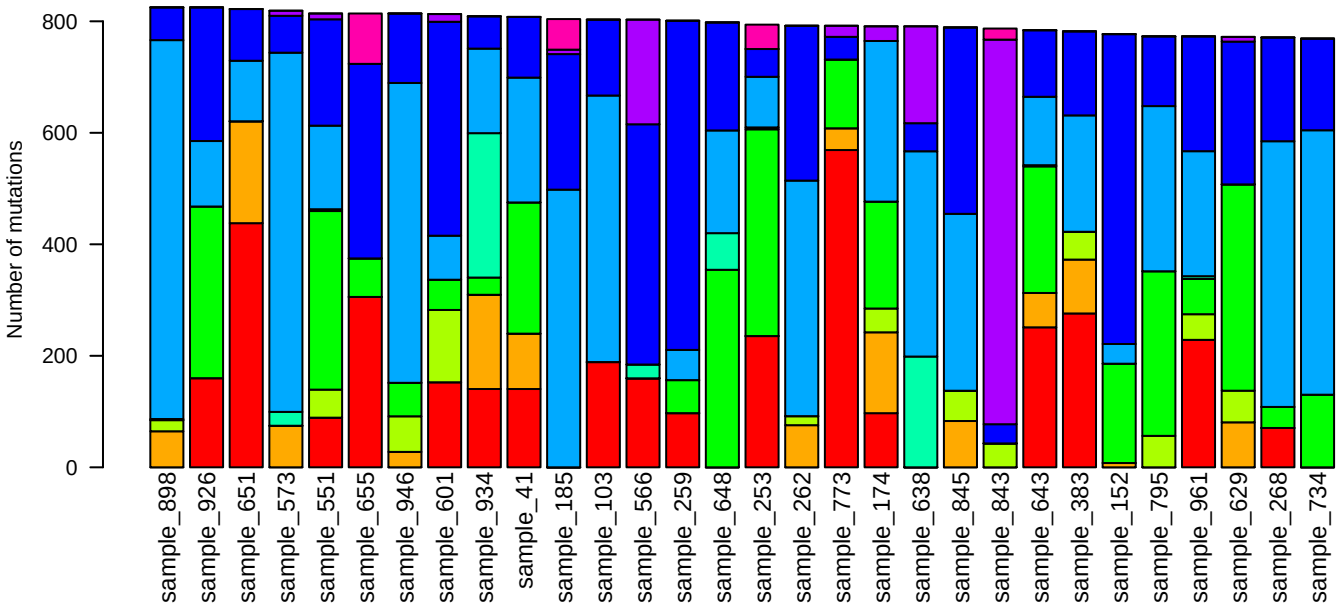

Number of mutations
0
200
400
600
800
1000
1200
1400
sample_487
sample_352
sample_565
sample_789
sample_444
sample_829
sample_782
sample_719
sample_700
sample_745
sample_371
sample_937
sample_49
sample_69
sample_560
sample_912
sample_899
sample_578
sample_114
sample_128
sample_480
sample_582
sample_153
sample_783
sample_501
sample_819
sample_61
sample_712
sample_423
sample_205


Number of mutations
0
200
400
600
800
1000
1200
sample_687
sample_222
sample_707
sample_837
sample_641
sample_27
sample_59
sample_71
sample_298
sample_637
sample_510
sample_495
sample_835
sample_234
sample_150
sample_603
sample_674
sample_755
sample_676
sample_921
sample_690
sample_944
sample_995
sample_34
sample_984
sample_894
sample_454
sample_394
sample_181
sample_731


Number of mutations
0
200
400
600
800
1000
sample_154
sample_907
sample_187
sample_91
sample_25
sample_105
sample_214
sample_815
sample_86
sample_919
sample_258
sample_621
sample_646
sample_836
sample_435
sample_647
sample_336
sample_923
sample_156
sample_596
sample_39
sample_110
sample_465
sample_609
sample_752
sample_816
sample_896
sample_228
sample_701
sample_864


Number of mutations
0
200
400
600
800
sample_382
sample_965
sample_311
sample_350
sample_698
sample_428
sample_859
sample_694
sample_895
sample_990
sample_910
sample_942
sample_301
sample_794
sample_136
sample_276
sample_160
sample_978
sample_57
sample_436
sample_971
sample_122
sample_235
sample_285
sample_291
sample_236
sample_300
sample_733
sample_652
sample_299
Number of mutations
0
200
400
600
800
sample_749
sample_95
sample_303
sample_557
sample_683
sample_139
sample_832
sample_179
sample_315
sample_468
sample_135
sample_120
sample_563
sample_873
sample_117
sample_867
sample_277
sample_216
sample_474
sample_949
sample_933
sample_108
sample_920
sample_581
sample_140
sample_149
sample_329
sample_969
sample_677
sample_209
Number of mutations
0
200
400
600
800
1000
sample_7
sample_358
sample_164
sample_814
sample_494
sample_223
sample_572
sample_508
sample_265
sample_840
sample_672
sample_485
sample_316
sample_539
sample_806
sample_704
sample_83
sample_345
sample_448
sample_406
sample_925
sample_389
sample_774
sample_442
sample_738
sample_924
sample_392
sample_500
sample_505
sample_347


Number of mutations
0
200
400
600
800
sample_432
sample_168
sample_249
sample_407
sample_636
sample_192
sample_32
sample_381
sample_450
sample_657
sample_960
sample_902
sample_271
sample_314
sample_576
sample_787
sample_377
sample_730
sample_304
sample_183
sample_367
sample_126
sample_662
sample_255
sample_370
sample_669
sample_87
sample_546
sample_833
sample_817


Number of mutations
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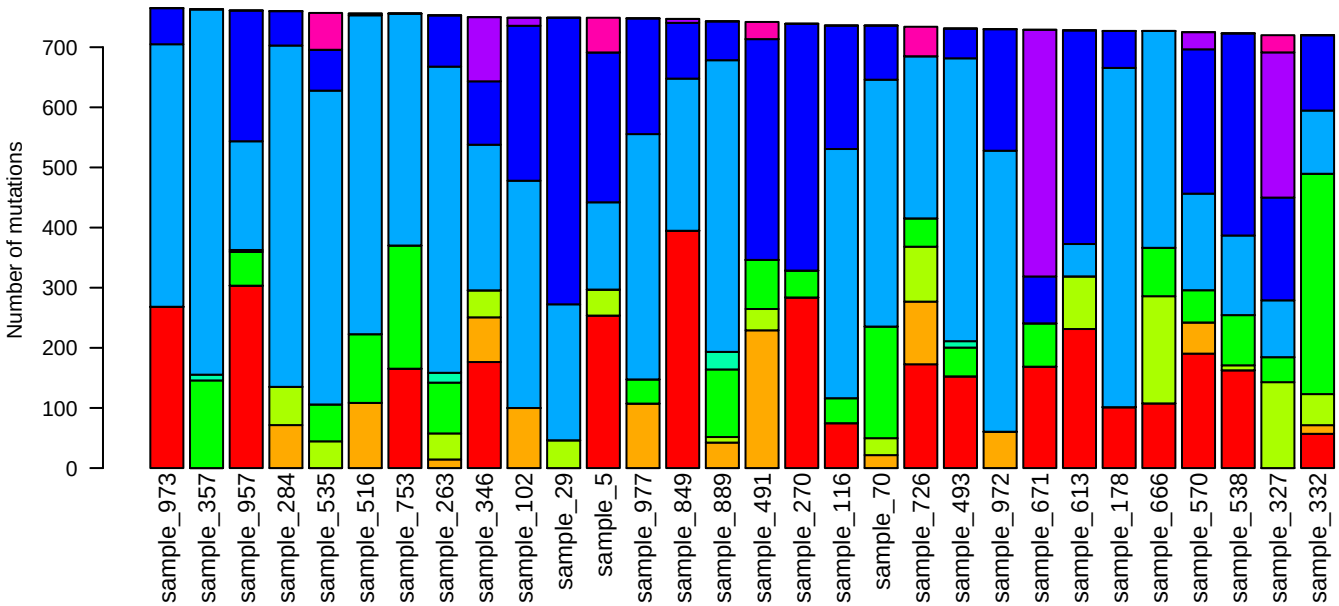
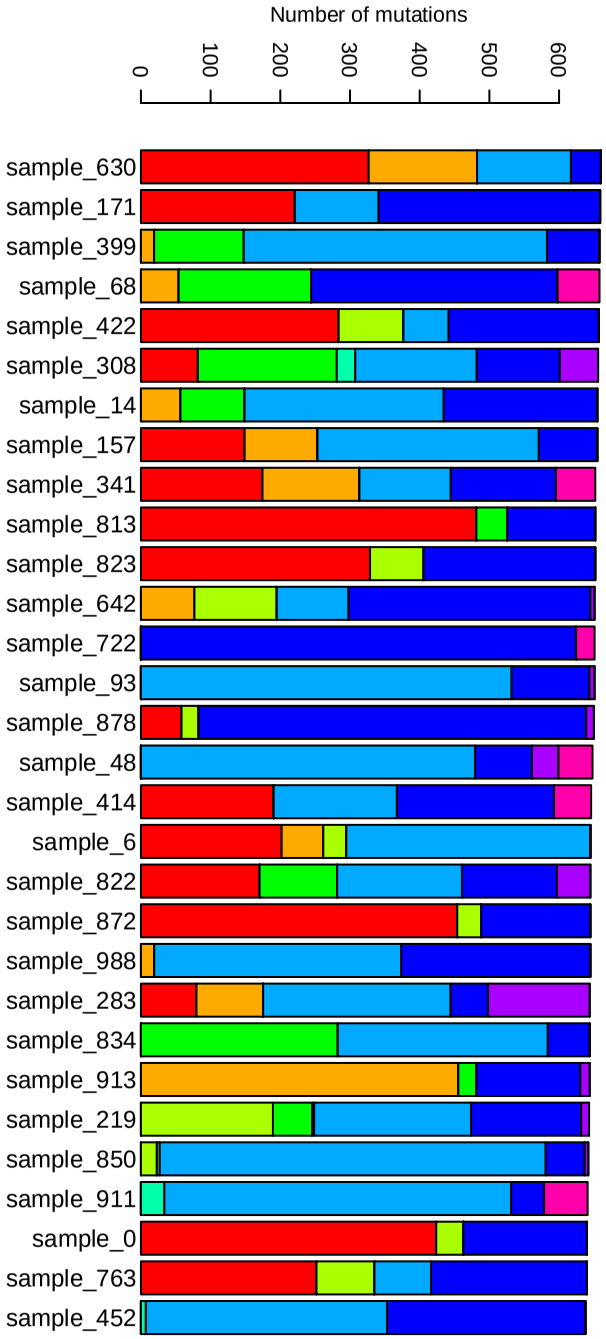
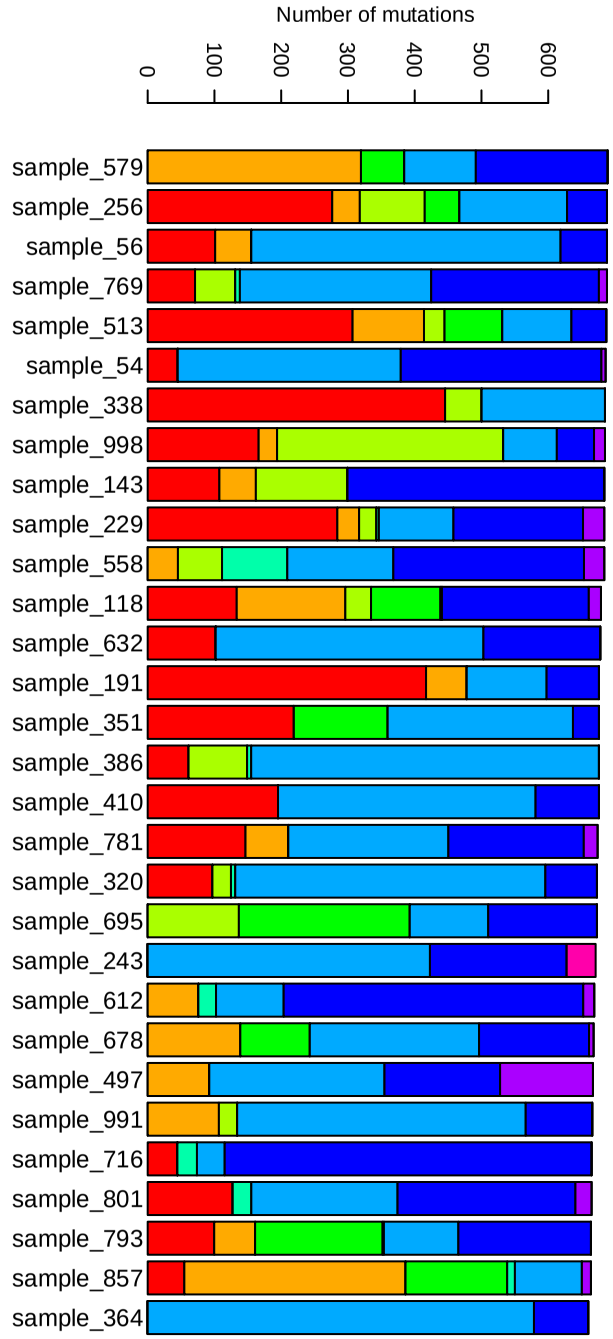
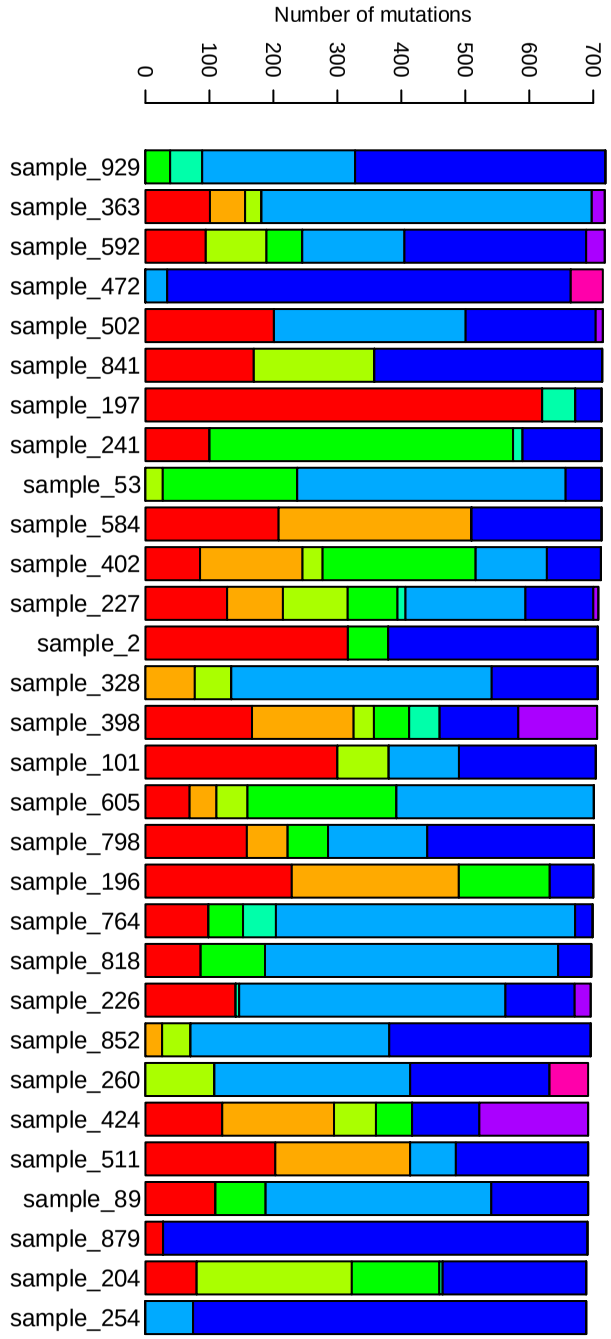
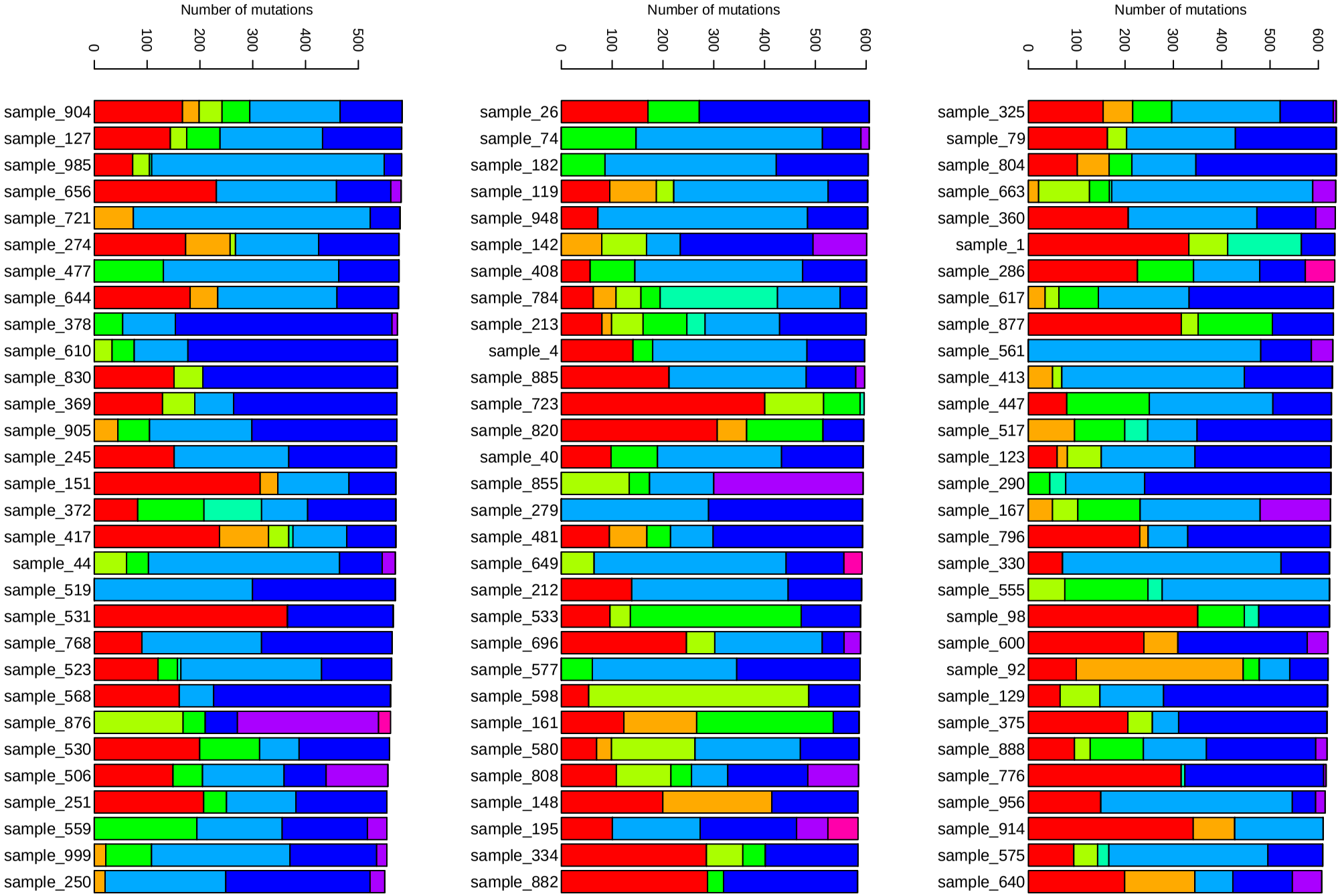
200
400
600
800
sample_898
sample_926
sample_651
sample_573
sample_551
sample_655
sample_946
sample_601
sample_934
sample_41
sample_185
sample_103
sample_566
sample_259
sample_648
sample_253
sample_262
sample_773
sample_174
sample_638
sample_845
sample_843
sample_643
sample_383
sample_152
sample_795
sample_961
sample_629
sample_268
sample_734


Number of mutations
0
100
200
300
400
500
600
700
sample_973
sample_357
sample_957
sample_284
sample_535
sample_516
sample_753
sample_263
sample_346
sample_102
sample_29
sample_5
sample_977
sample_849
sample_889
sample_491
sample_270
sample_116
sample_70
sample_726
sample_493
sample_972
sample_671
sample_613
sample_178
sample_666
sample_570
sample_538
sample_327
sample_332


Number of mutations
0
100
200
300
400
500
600
sample_630
sample_171
sample_399
sample_68
sample_422
sample_308
sample_14
sample_157
sample_341
sample_813
sample_823
sample_642
sample_722
sample_93
sample_878
sample_48
sample_414
sample_6
sample_822
sample_872
sample_988
sample_283
sample_834
sample_913
sample_219
sample_850
sample_911
sample_0
sample_763
sample_452


Number of mutations
0
100
200
300
400
500
600
sample_579
sample_256
sample_56
sample_769
sample_513
sample_54
sample_338
sample_998
sample_143
sample_229
sample_558
sample_118
sample_632
sample_191
sample_351
sample_386
sample_410
sample_781
sample_320
sample_695
sample_243
sample_612
sample_678
sample_497
sample_991
sample_716
sample_801
sample_793
sample_857
sample_364


Number of mutations
0
100
200
300
400
500
600
700
sample_929
sample_363
sample_592
sample_472
sample_502
sample_841
sample_197
sample_241
sample_53
sample_584
sample_402
sample_227
sample_2
sample_328
sample_398
sample_101
sample_605
sample_798
sample_196
sample_764
sample_818
sample_226
sample_852
sample_260
sample_424
sample_511
sample_89
sample_879
sample_204
sample_254


Number of mutations
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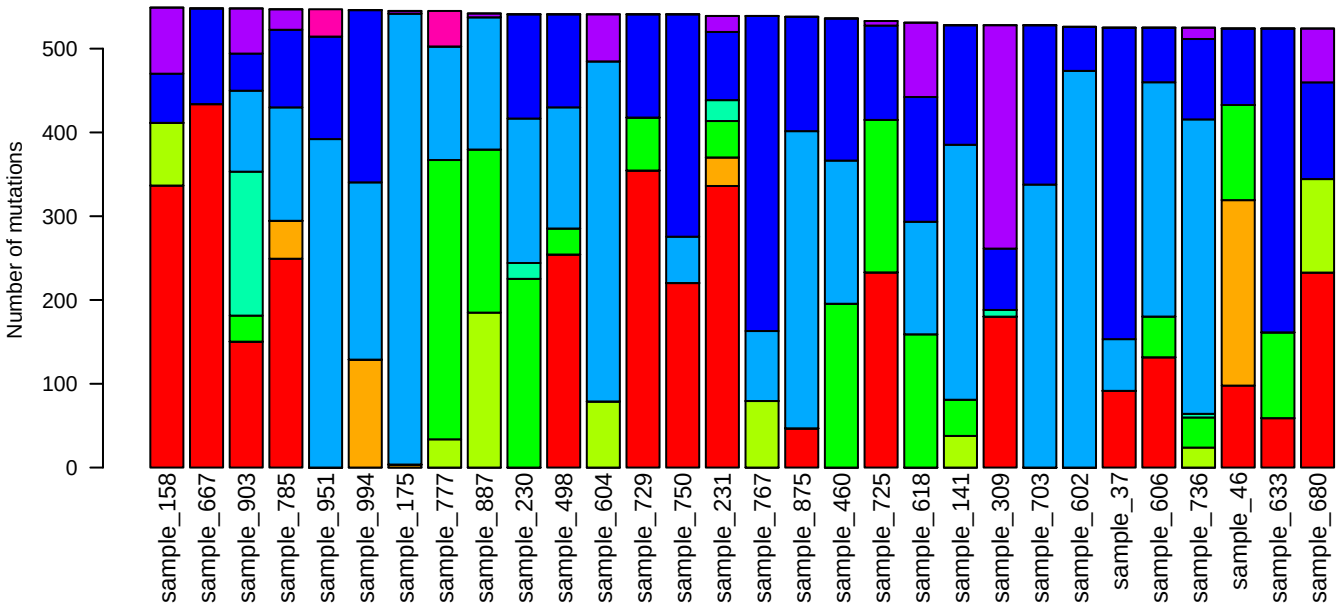
100
200
300
400
500
sample_904
sample_127
sample_985
sample_656
sample_721
sample_274
sample_477
sample_644
sample_378
sample_610
sample_830
sample_369
sample_905
sample_245
sample_151
sample_372
sample_417
sample_44
sample_519
sample_531
sample_768
sample_523
sample_568
sample_876
sample_530
sample_506
sample_251
sample_559
sample_999
sample_250
Number of mutations
0
100
200
300
400
500
600
sample_26
sample_74
sample_182
sample_119
sample_948
sample_142
sample_408
sample_784
sample_213
sample_4
sample_885
sample_723
sample_820
sample_40
sample_855
sample_279
sample_481
sample_649
sample_212
sample_533
sample_696
sample_577
sample_598
sample_161
sample_580
sample_808
sample_148
sample_195
sample_334
sample_882
Number of mutations
0
100
200
300
400
500
600
sample_325
sample_79
sample_804
sample_663
sample_360
sample_1
sample_286
sample_617
sample_877
sample_561
sample_413
sample_447
sample_517
sample_123
sample_290
sample_167
sample_796
sample_330
sample_555
sample_98
sample_600
sample_92
sample_129
sample_375
sample_888
sample_776
sample_956
sample_914
sample_575
sample_640


Number of mutations
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100
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300
400
500
sample_158
sample_667
sample_903
sample_785
sample_951
sample_994
sample_175
sample_777
sample_887
sample_230
sample_498
sample_604
sample_729
sample_750
sample_231
sample_767
sample_875
sample_460
sample_725
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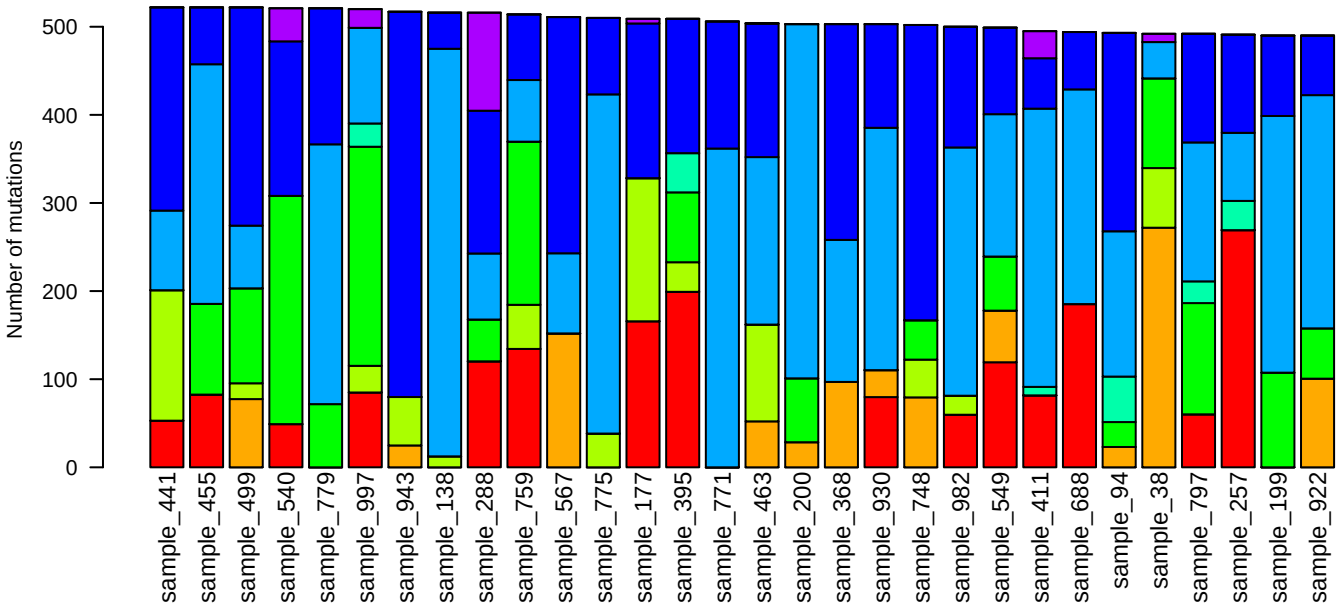
sample_309
sample_703
sample_602
sample_37
sample_606
sample_736
sample_46
sample_633
sample_680


Number of mutations
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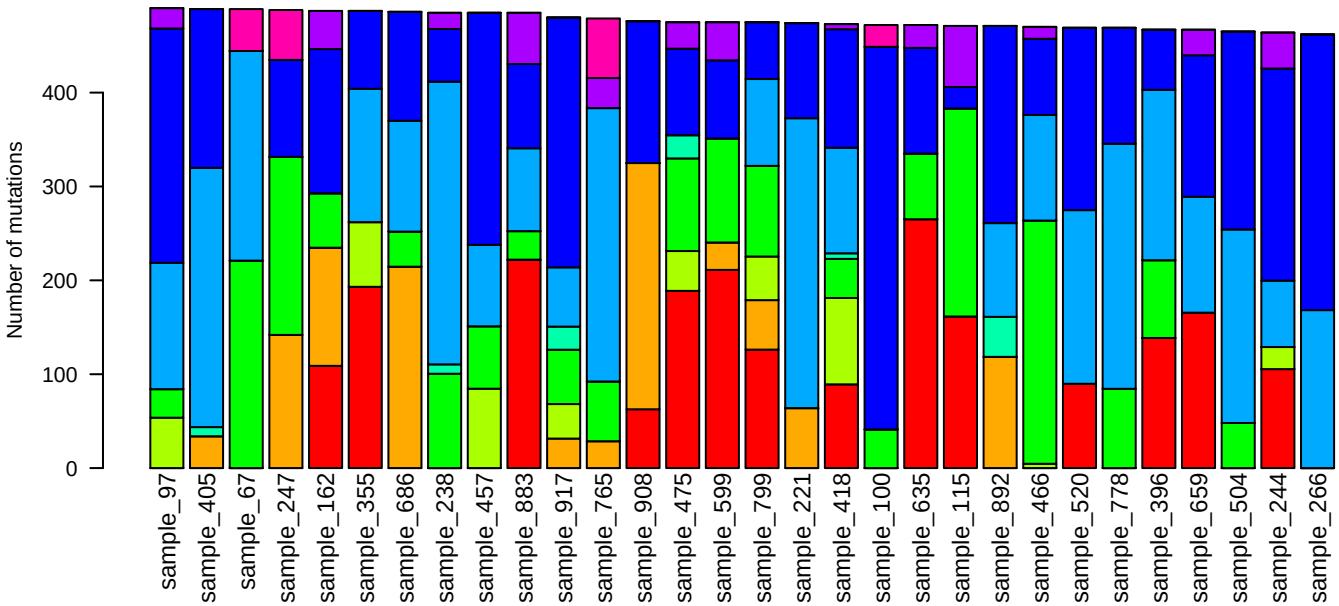
300
400
500
sample_441
sample_455
sample_499
sample_540
sample_779
sample_997
sample_943
sample_138
sample_288
sample_759
sample_567
sample_775
sample_177
sample_395
sample_771
sample_463
sample_200
sample_368
sample_930
sample_748
sample_982
sample_549
sample_411
sample_688
sample_94
sample_38
sample_797
sample_257
sample_199
sample_922


Number of mutations
0
100
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300
400
sample_97
sample_405
sample_67
sample_247
sample_162
sample_355
sample_686
sample_238
sample_457
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sample_917
sample_765
sample_908
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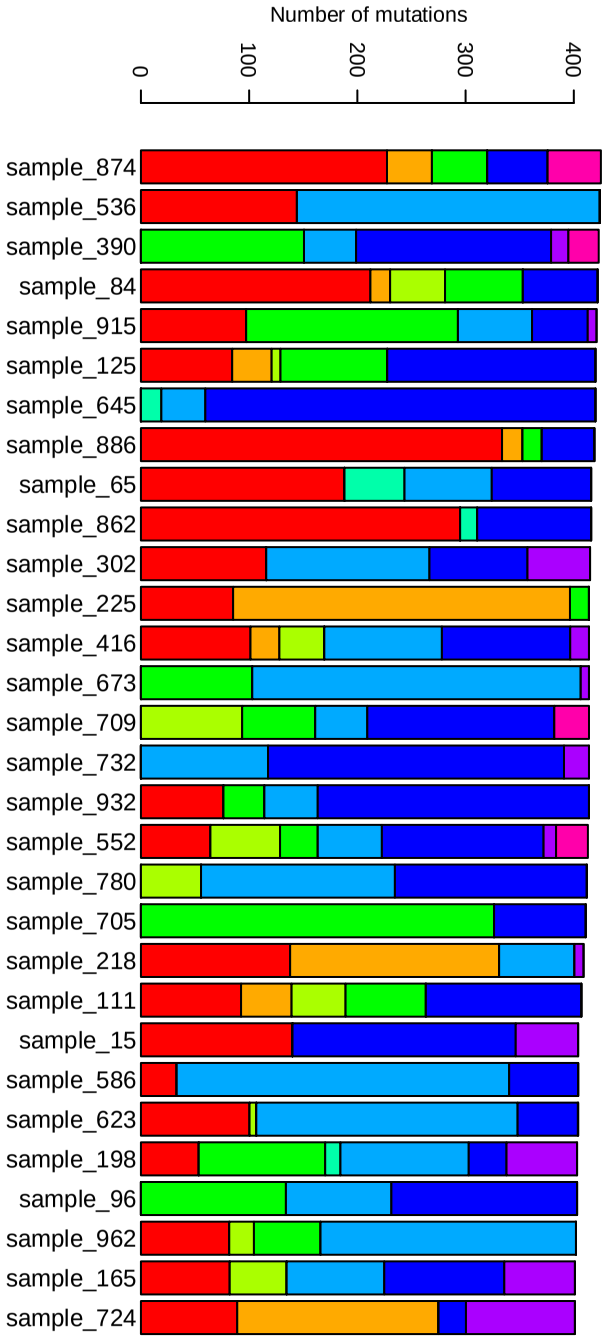
sample_599
sample_799
sample_221
sample_418
sample_100
sample_635
sample_115
sample_892
sample_466
sample_520
sample_778
sample_396
sample_659
sample_504
sample_244
sample_266


Number of mutations
0
100
200
300
400
sample_874
sample_536
sample_390
sample_84
sample_915
sample_125
sample_645
sample_886
sample_65
sample_862
sample_302
sample_225
sample_416
sample_673
sample_709
sample_732
sample_932
sample_552
sample_780
sample_705
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sample_111
sample_15
sample_586
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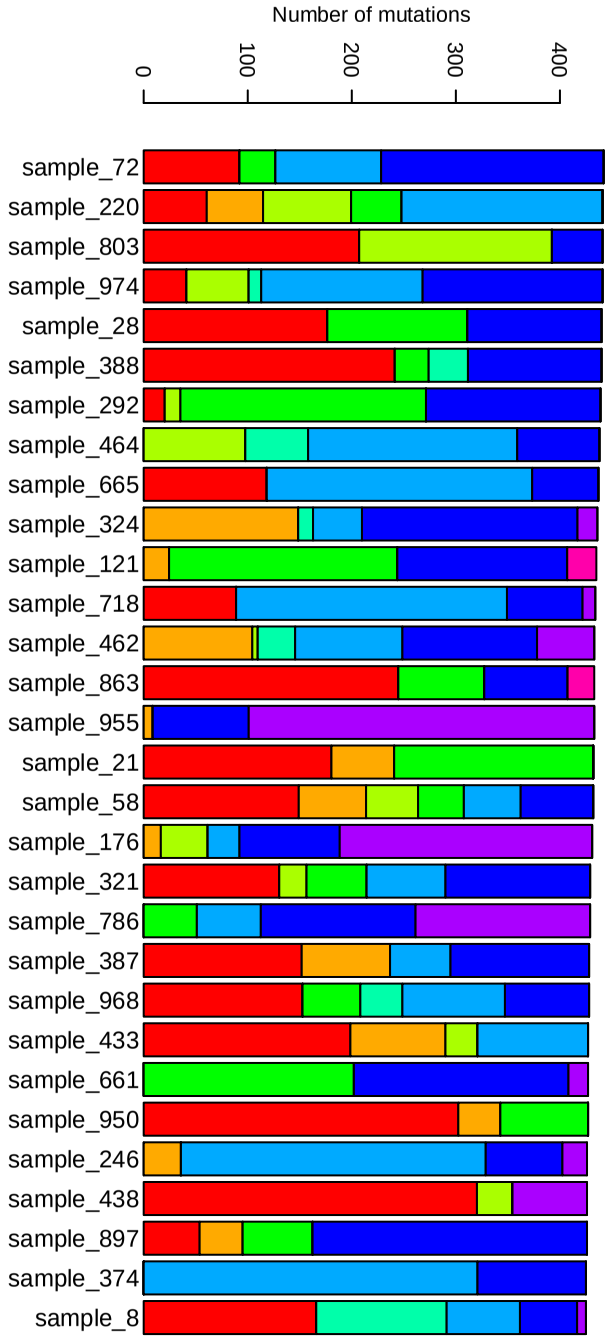
sample_96
sample_962
sample_165
sample_724


Number of mutations
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100
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300
400
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sample_220
sample_803
sample_974
sample_28
sample_388
sample_292
sample_464
sample_665
sample_324
sample_121
sample_718
sample_462
sample_863
sample_955
sample_21
sample_58
sample_176
sample_321
sample_786
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sample_433
sample_661
sample_950
sample_246
sample_438
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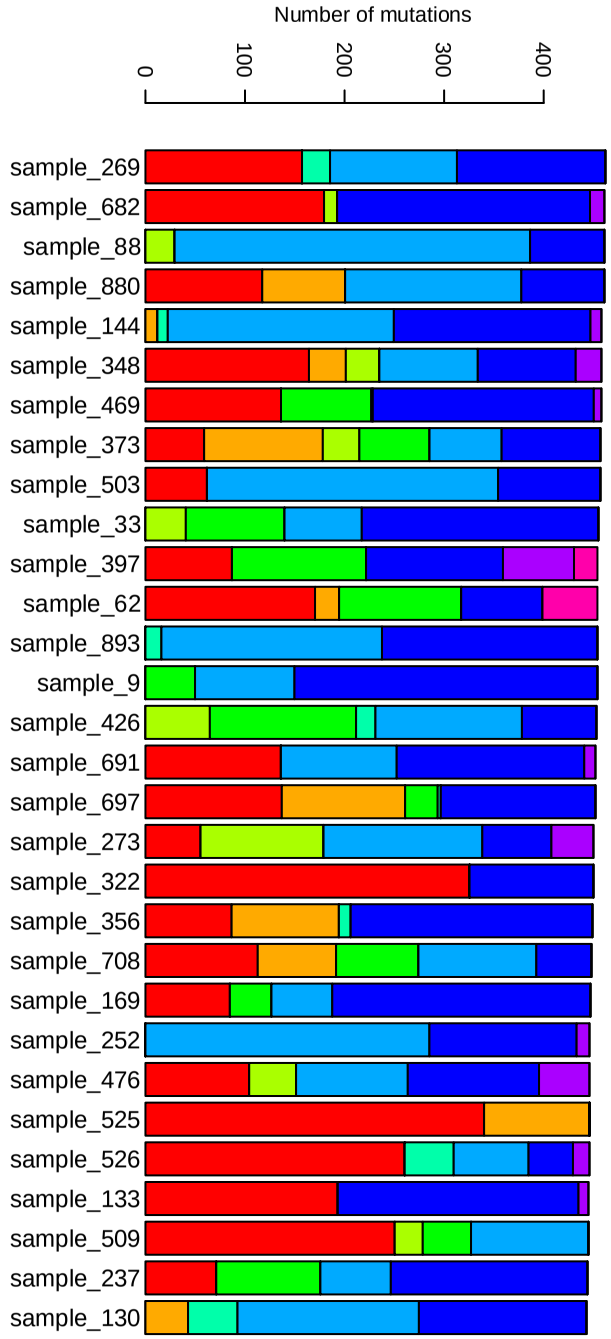
sample_374
sample_8


Number of mutations
0
100
200
300
400
sample_269
sample_682
sample_88
sample_880
sample_144
sample_348
sample_469
sample_373
sample_503
sample_33
sample_397
sample_62
sample_893
sample_9
sample_426
sample_691
sample_697
sample_273
sample_322
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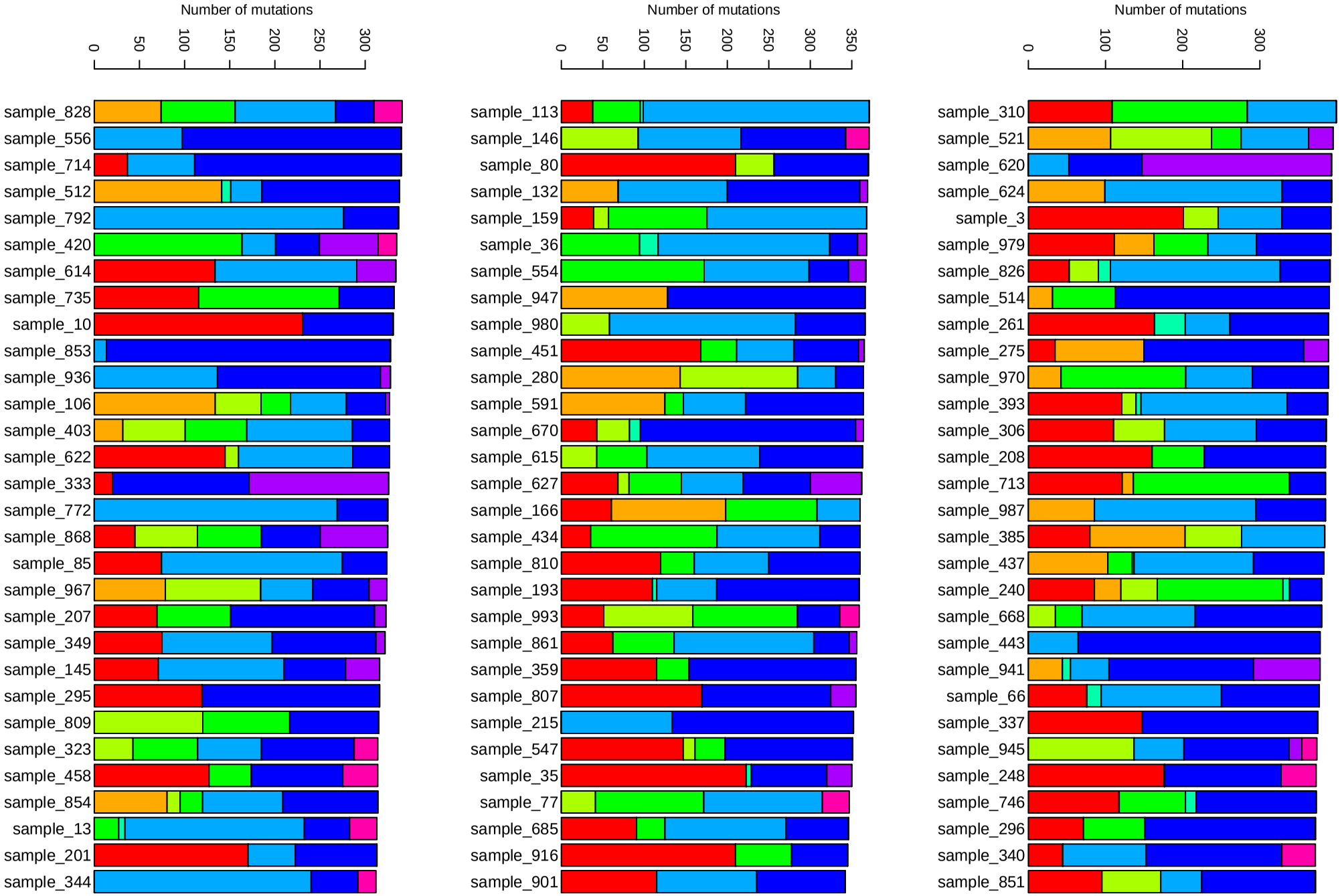
sample_708
sample_169
sample_252
sample_476
sample_525
sample_526
sample_133
sample_509
sample_237
sample_130


Number of mutations
0
50
100
150
200
250
300
sample_828
sample_556
sample_714
sample_512
sample_792
sample_420
sample_614
sample_735
sample_10
sample_853
sample_936
sample_106
sample_403
sample_622
sample_333
sample_772
sample_868
sample_85
sample_967
sample_207
sample_349
sample_145
sample_295
sample_809
sample_323
sample_458
sample_854
sample_13
sample_201
sample_344
Number of mutations
0
50
100
150
200
250
300
350
sample_113
sample_146
sample_80
sample_132
sample_159
sample_36
sample_554
sample_947
sample_980
sample_451
sample_280
sample_591
sample_670
sample_615
sample_627
sample_166
sample_434
sample_810
sample_193
sample_993
sample_861
sample_359
sample_807
sample_215
sample_547
sample_35
sample_77
sample_685
sample_916
sample_901
Number of mutations
0
100
200
300
sample_310
sample_521
sample_620
sample_624
sample_3
sample_979
sample_826
sample_514
sample_261
sample_275
sample_970
sample_393
sample_306
sample_208
sample_713
sample_987
sample_385
sample_437
sample_240
sample_668
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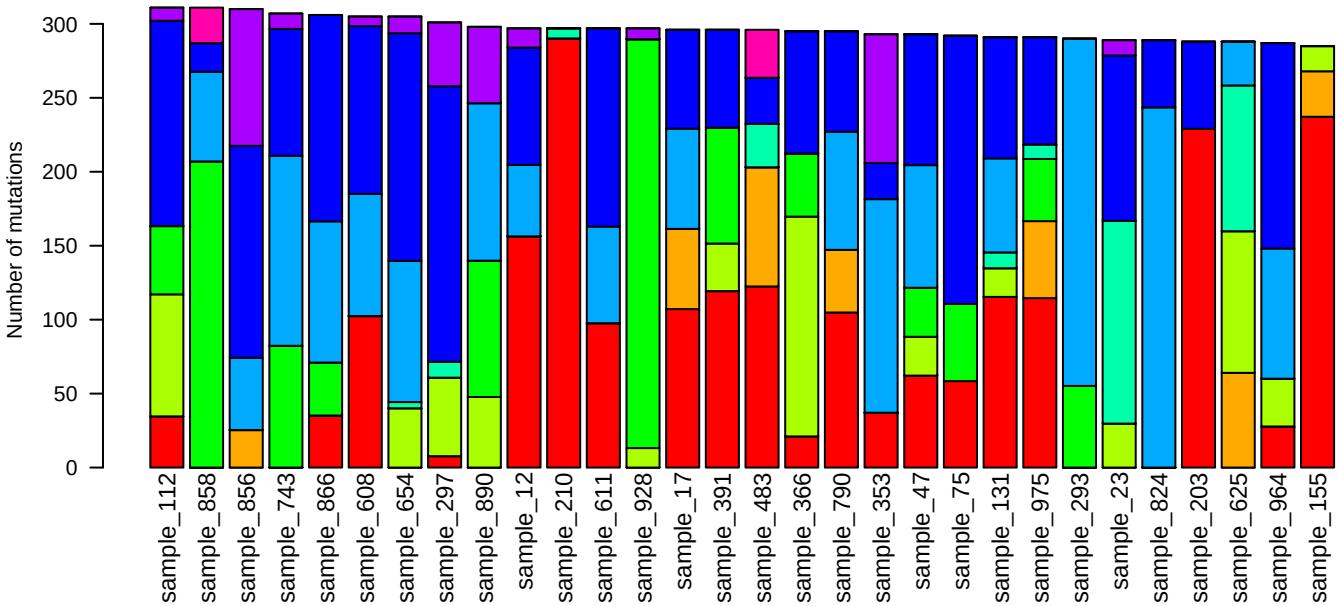
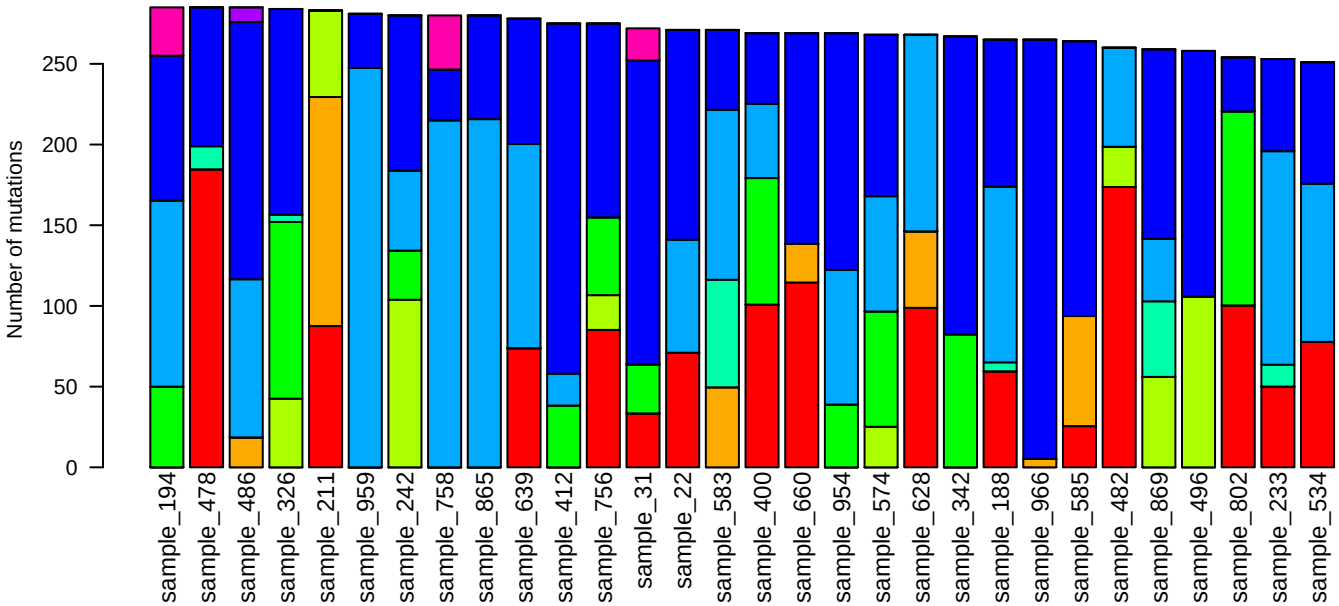
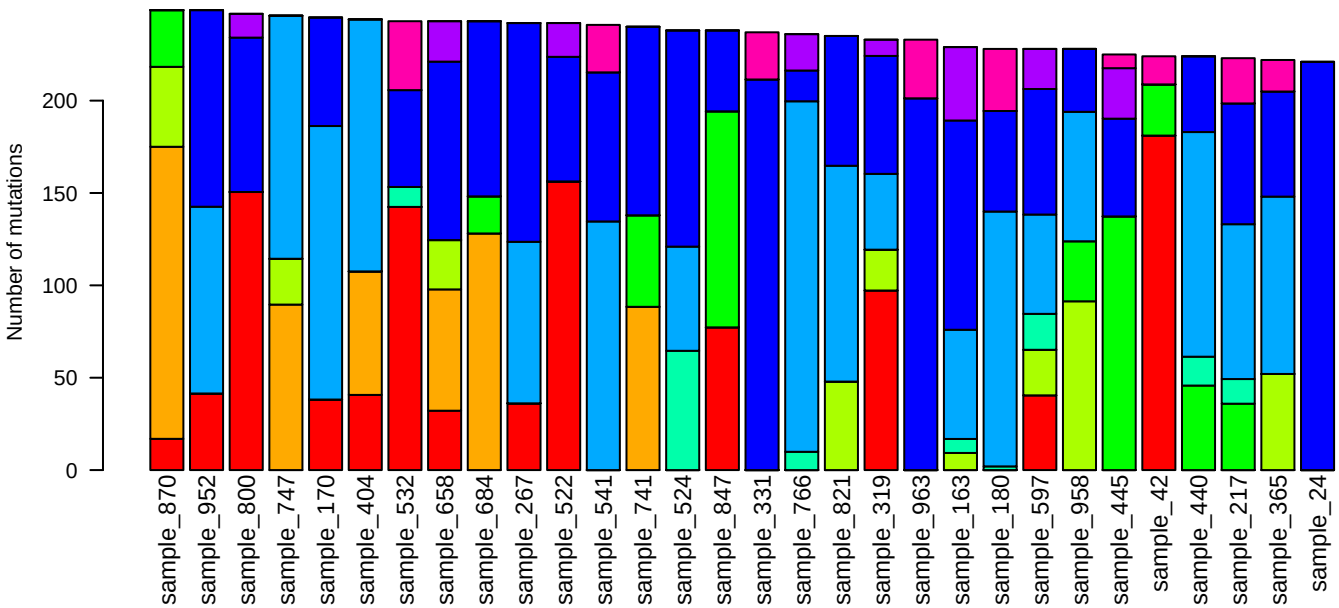
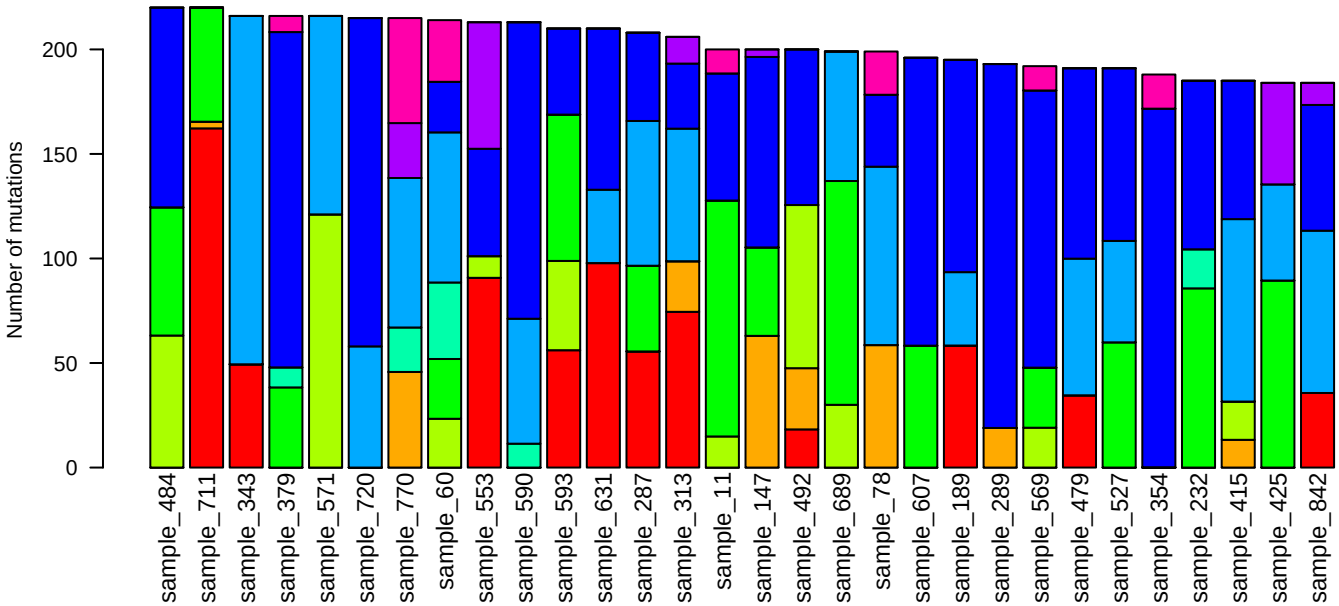
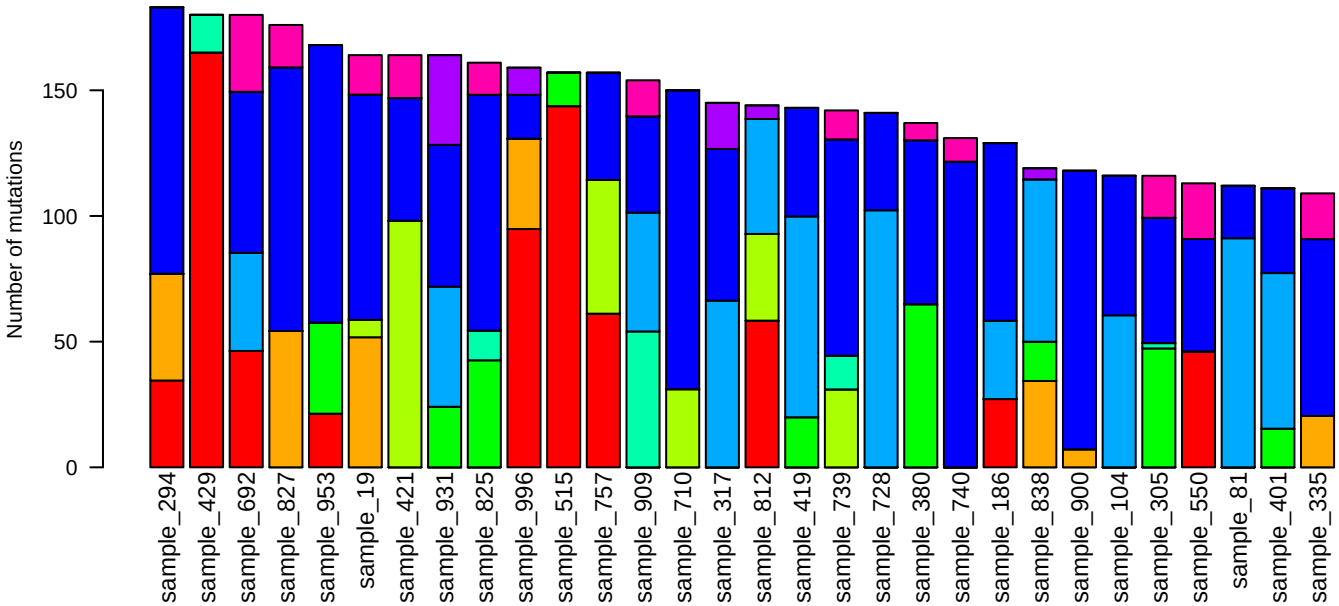
sample_941
sample_66
sample_337
sample_945
sample_248
sample_746
sample_296
sample_340
sample_851

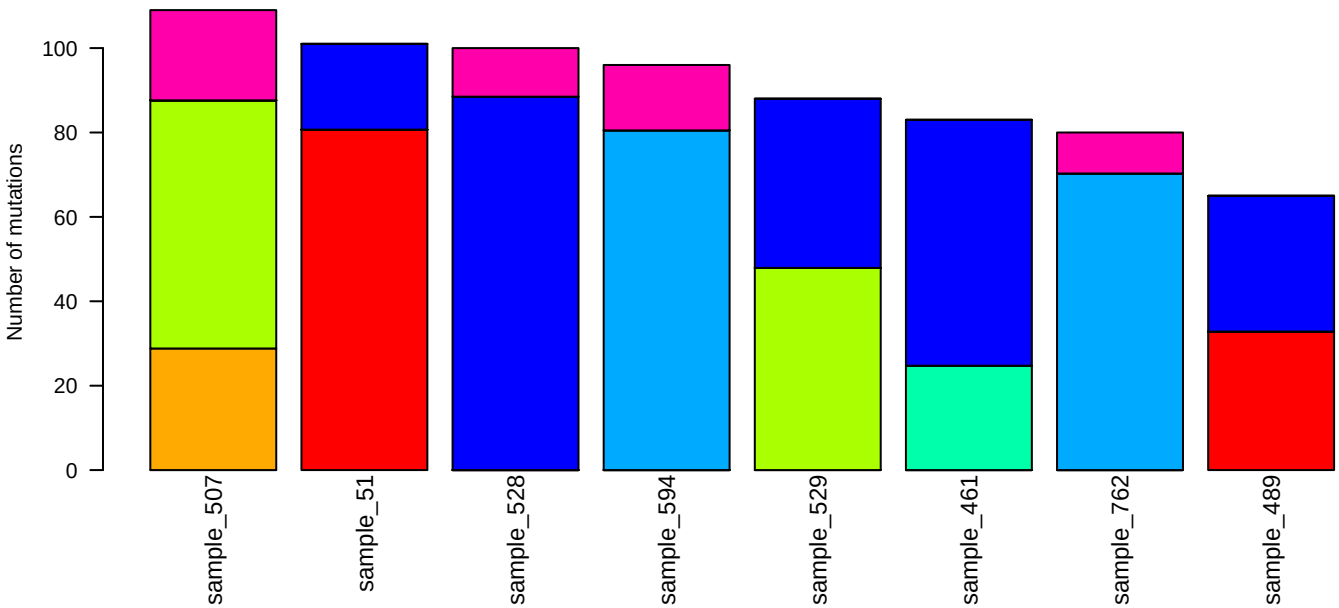

Number of mutations
0
50
100
150
200
250
300
sample_112
sample_858
sample_856
sample_743
sample_866
sample_608
sample_654
sample_297
sample_890
sample_12
sample_210
sample_611
sample_928
sample_17
sample_391
sample_483
sample_366
sample_790
sample_353
sample_47
sample_75
sample_131
sample_975
sample_293
sample_23
sample_824
sample_203
sample_625
sample_964
sample_155


Number of mutations
0
50
100
150
200
250
sample_194
sample_478
sample_486
sample_326
sample_211
sample_959
sample_242
sample_758
sample_865
sample_639
sample_412
sample_756
sample_31
sample_22
sample_583
sample_400
sample_660
sample_954
sample_574
sample_628
sample_342
sample_188
sample_966
sample_585
sample_482
sample_869
sample_496
sample_802
sample_233
sample_534


Number of mutations
0
50
100
150
200
sample_870
sample_952
sample_800
sample_747
sample_170
sample_404
sample_532
sample_658
sample_684
sample_267
sample_522
sample_541
sample_741
sample_524
sample_847
sample_331
sample_766
sample_821
sample_319
sample_963
sample_163
sample_180
sample_597
sample_958
sample_445
sample_42
sample_440
sample_217
sample_365
sample_24


Number of mutations
0
50
100
150
200
sample_484
sample_711
sample_343
sample_379
sample_571
sample_720
sample_770
sample_60
sample_553
sample_590
sample_593
sample_631
sample_287
sample_313
sample_11
sample_147
sample_492
sample_689
sample_78
sample_607
sample_189
sample_289
sample_569
sample_479
sample_527
sample_354
sample_232
sample_415
sample_425
sample_842


Number of mutations
0
50
100
150
sample_294
sample_429
sample_692
sample_827
sample_953
sample_19
sample_421
sample_931
sample_825
sample_996
sample_515
sample_757
sample_909
sample_710
sample_317
sample_812
sample_419
sample_739
sample_728
sample_380
sample_740
sample_186
sample_838
sample_900
sample_104
sample_305
sample_550
sample_81
sample_401
sample_335


Number of mutations
0
20
40
60
80
100
sample_507
sample_51
sample_528
sample_594
sample_529
sample_461
sample_762
sample_489