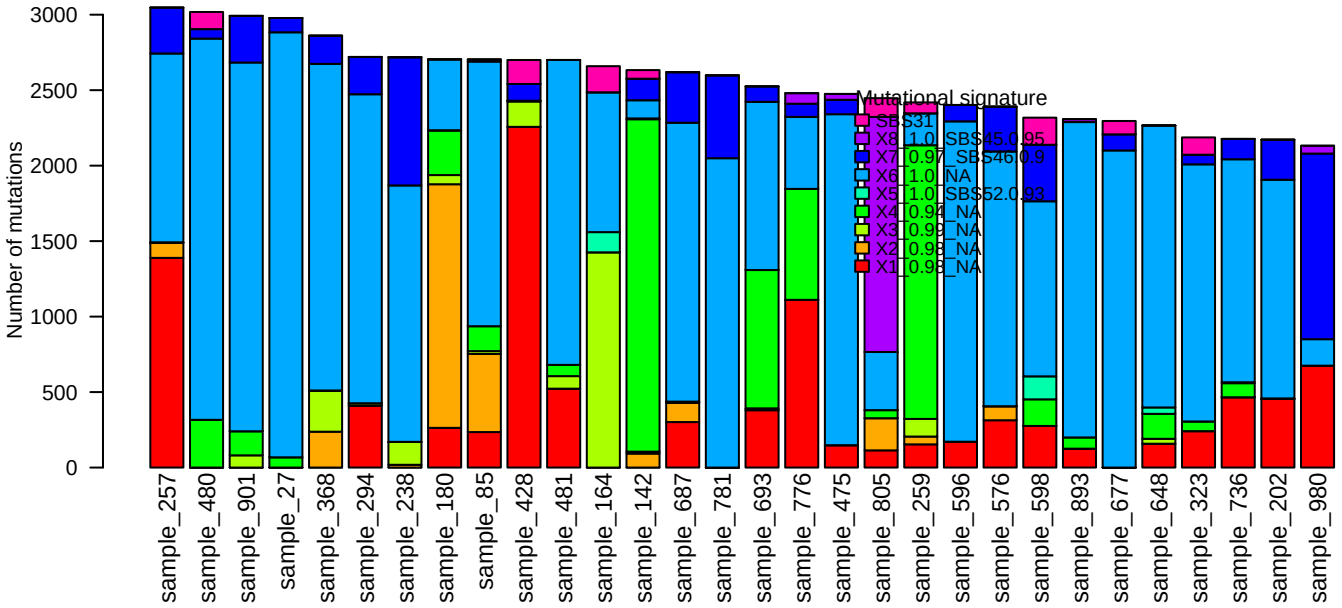
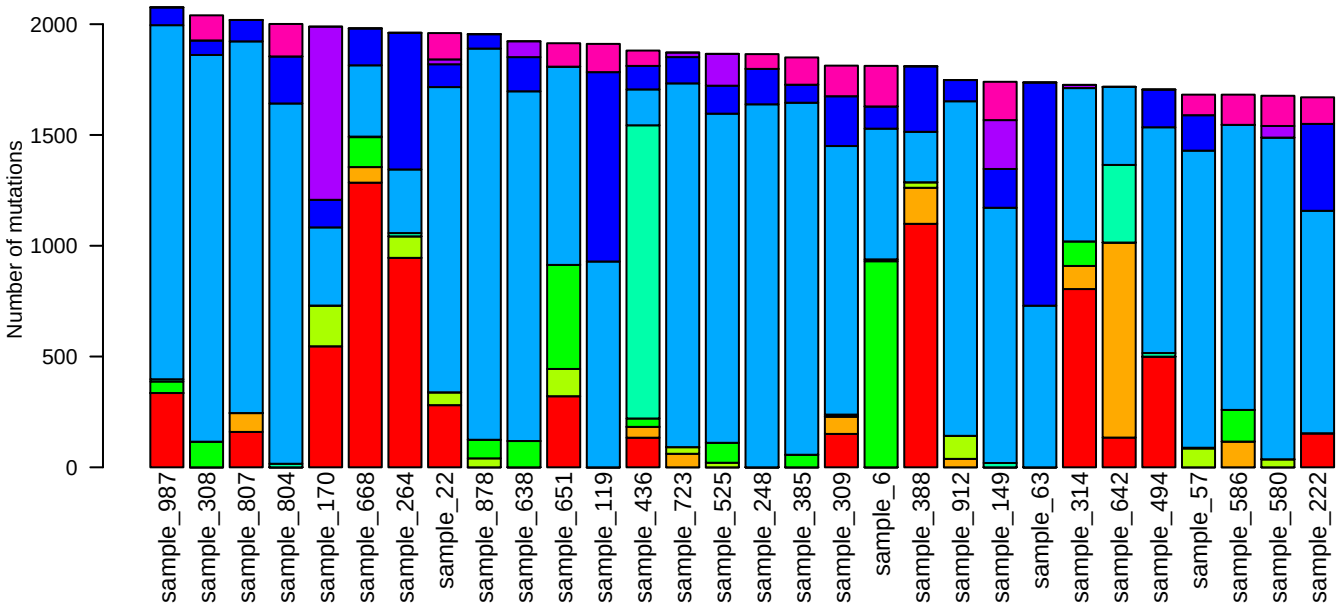

Number of mutations
0
500
1000
1500
2000
2500
3000
Mutational signature
SBS31
X8_1.0_SBS45.0.95
X7_0.97_SBS46.0.9
X6_1.0_NA
X5_1.0_SBS52.0.93
X4_0.94_NA
X3_0.99_NA
X2_0.98_NA
X1_0.98_NA
sample_257
sample_480
sample_901
sample_27
sample_368
sample_294
sample_238
sample_180
sample_85
sample_428
sample_481
sample_164
sample_142
sample_687
sample_781
sample_693
sample_776
sample_475
sample_805
sample_259
sample_596
sample_576
sample_598
sample_893
sample_677
sample_648
sample_323
sample_736
sample_202
sample_980


Number of mutations
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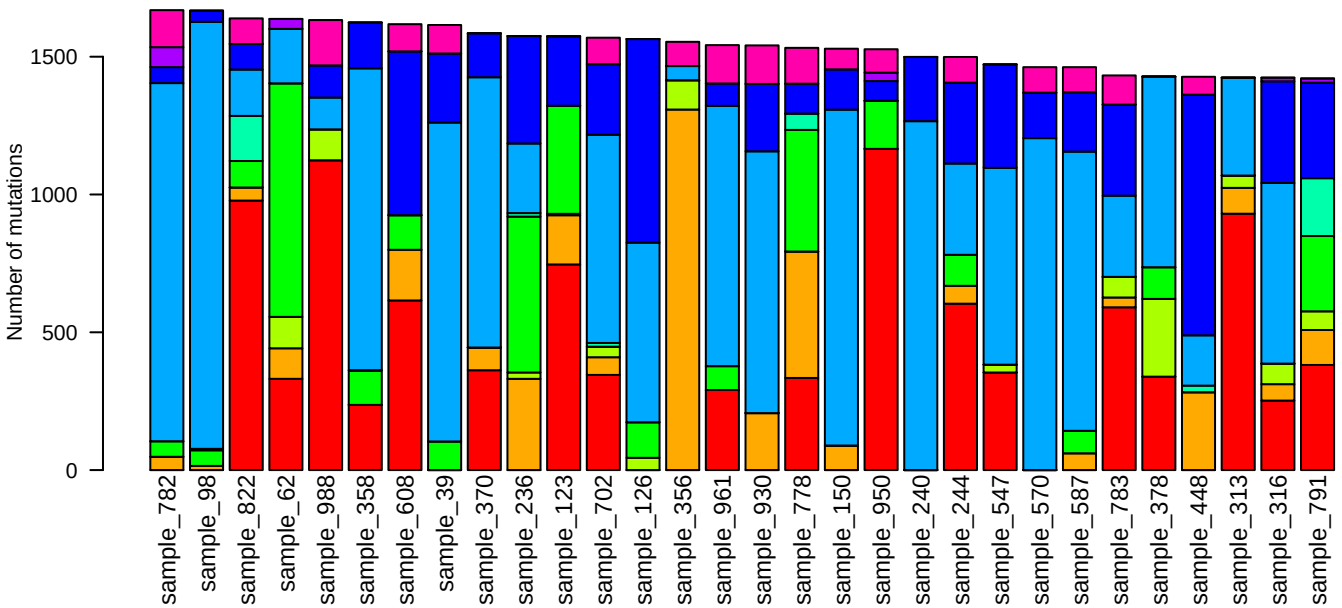
500
1000
1500
2000
sample_987
sample_308
sample_807
sample_804
sample_170
sample_668
sample_264
sample_22
sample_878
sample_638
sample_651
sample_119
sample_436
sample_723
sample_525
sample_248
sample_385
sample_309
sample_6
sample_388
sample_912
sample_149
sample_63
sample_314
sample_642
sample_494
sample_57
sample_586
sample_580
sample_222


Number of mutations
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sample_98
sample_822
sample_62
sample_988
sample_358
sample_608
sample_39
sample_370
sample_236
sample_123
sample_702
sample_126
sample_356
sample_961
sample_930
sample_778
sample_150
sample_950
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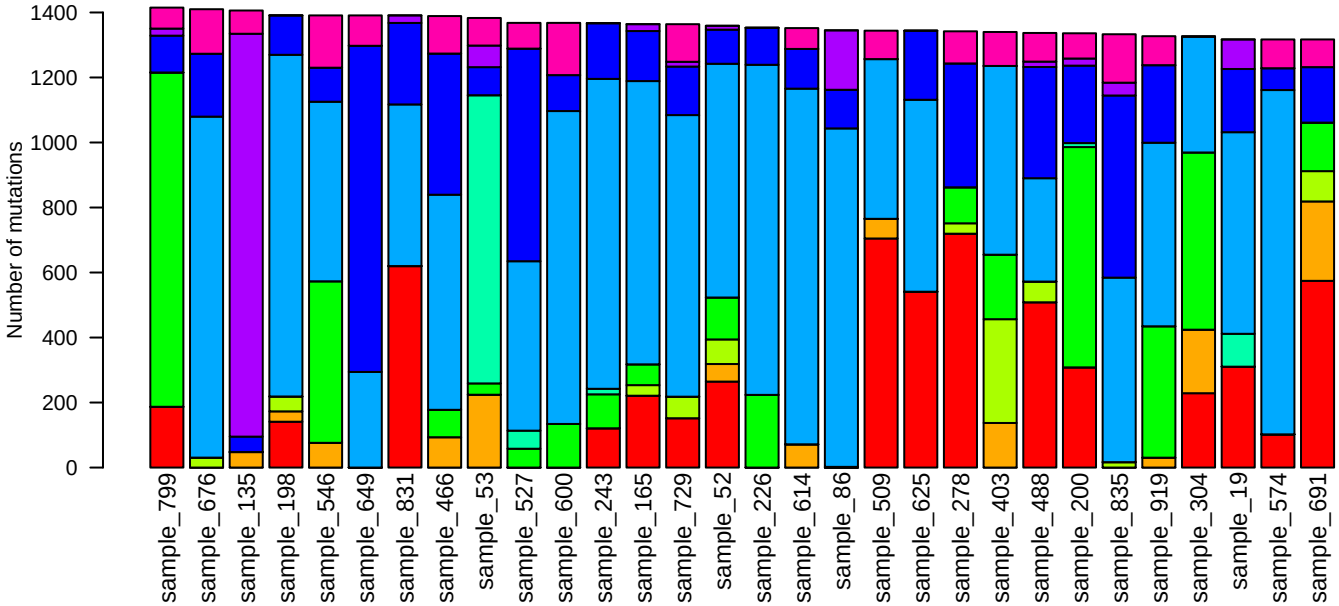
sample_244
sample_547
sample_570
sample_587
sample_783
sample_378
sample_448
sample_313
sample_316
sample_791


Number of mutations
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200
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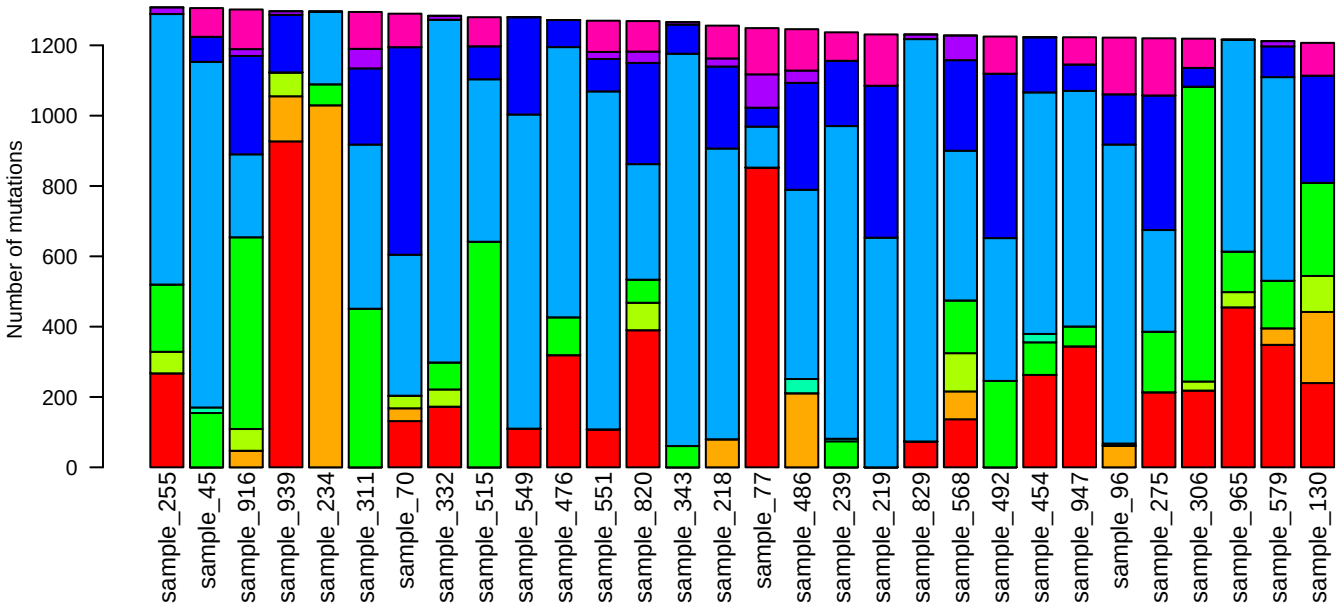
600
800
1000
1200
1400
sample_799
sample_676
sample_135
sample_198
sample_546
sample_649
sample_831
sample_466
sample_53
sample_527
sample_600
sample_243
sample_165
sample_729
sample_52
sample_226
sample_614
sample_86
sample_509
sample_625
sample_278
sample_403
sample_488
sample_200
sample_835
sample_919
sample_304
sample_19
sample_574
sample_691


Number of mutations
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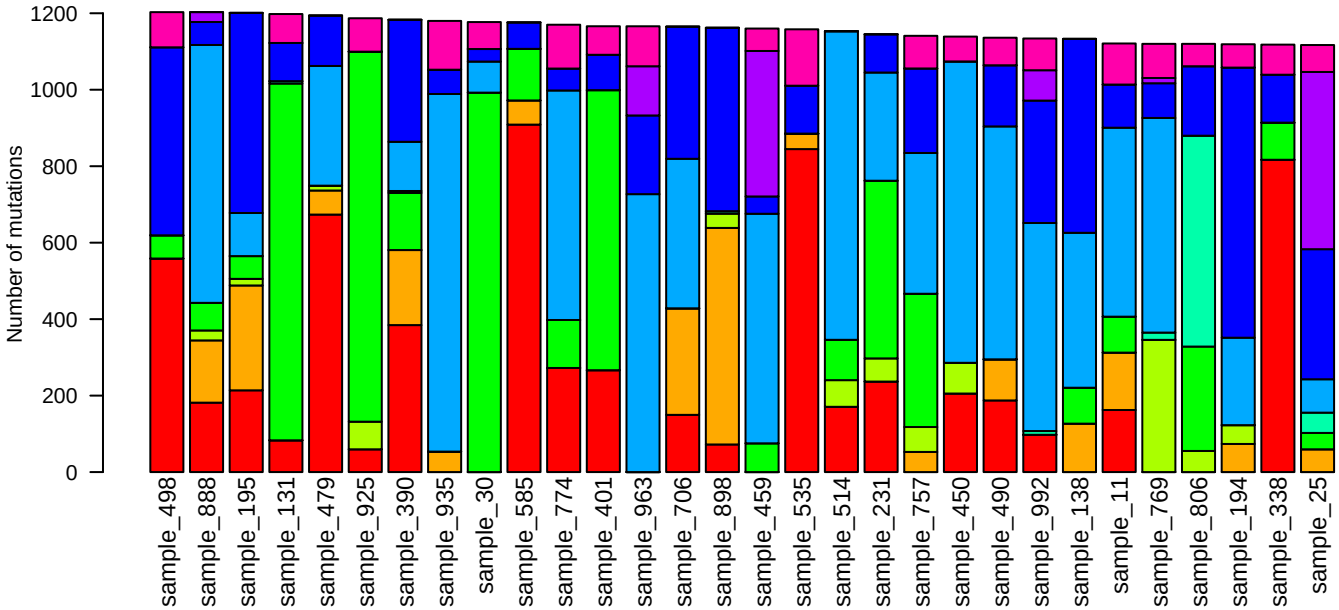
200
400
600
800
1000
1200
sample_255
sample_45
sample_916
sample_939
sample_234
sample_311
sample_70
sample_332
sample_515
sample_549
sample_476
sample_551
sample_820
sample_343
sample_218
sample_77
sample_486
sample_239
sample_219
sample_829
sample_568
sample_492
sample_454
sample_947
sample_96
sample_275
sample_306
sample_965
sample_579
sample_130


Number of mutations
0
200
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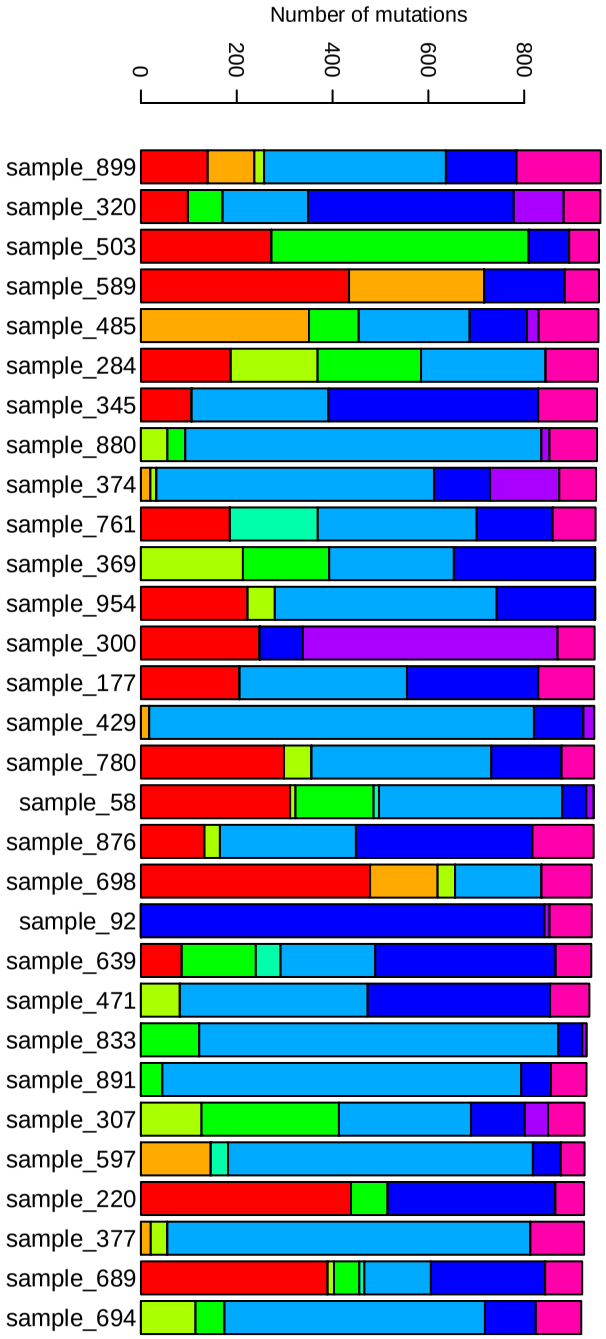
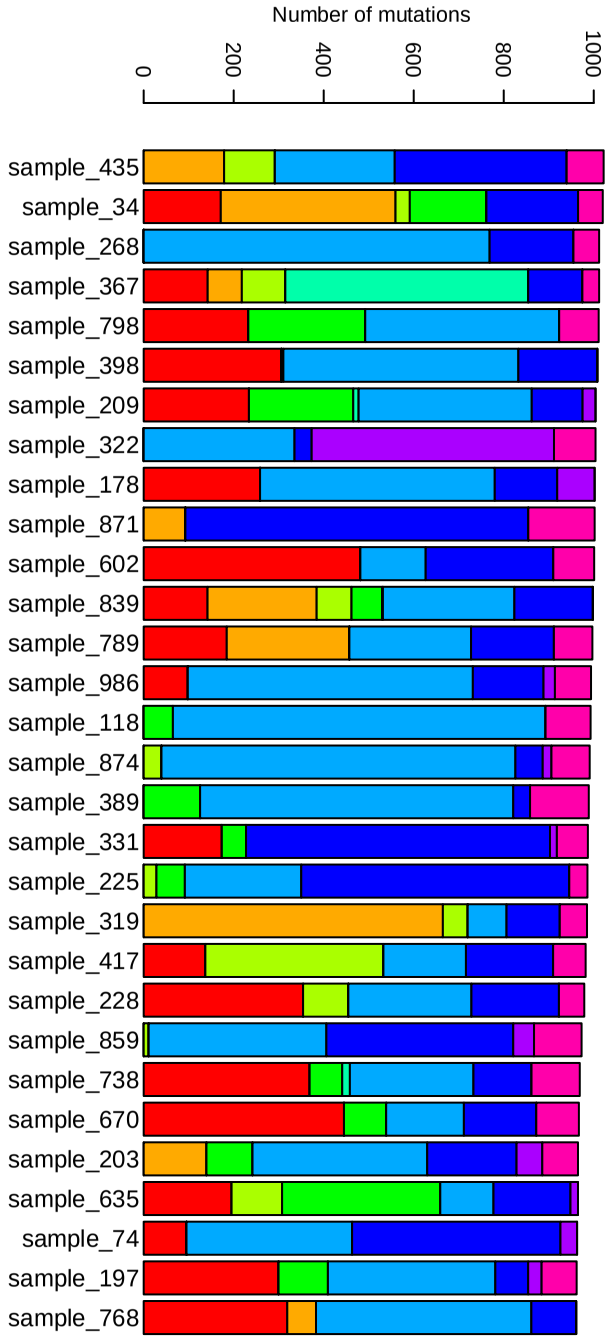
600
800
1000
1200
sample_498
sample_888
sample_195
sample_131
sample_479
sample_925
sample_390
sample_935
sample_30
sample_585
sample_774
sample_401
sample_963
sample_706
sample_898
sample_459
sample_535
sample_514
sample_231
sample_757
sample_450
sample_490
sample_992
sample_138
sample_11
sample_769
sample_806
sample_194
sample_338
sample_25


Number of mutations
0
200
400
600
800
sample_899
sample_320
sample_503
sample_589
sample_485
sample_284
sample_345
sample_880
sample_374
sample_761
sample_369
sample_954
sample_300
sample_177
sample_429
sample_780
sample_58
sample_876
sample_698
sample_92
sample_639
sample_471
sample_833
sample_891
sample_307
sample_597
sample_220
sample_377
sample_689
sample_694


Number of mutations
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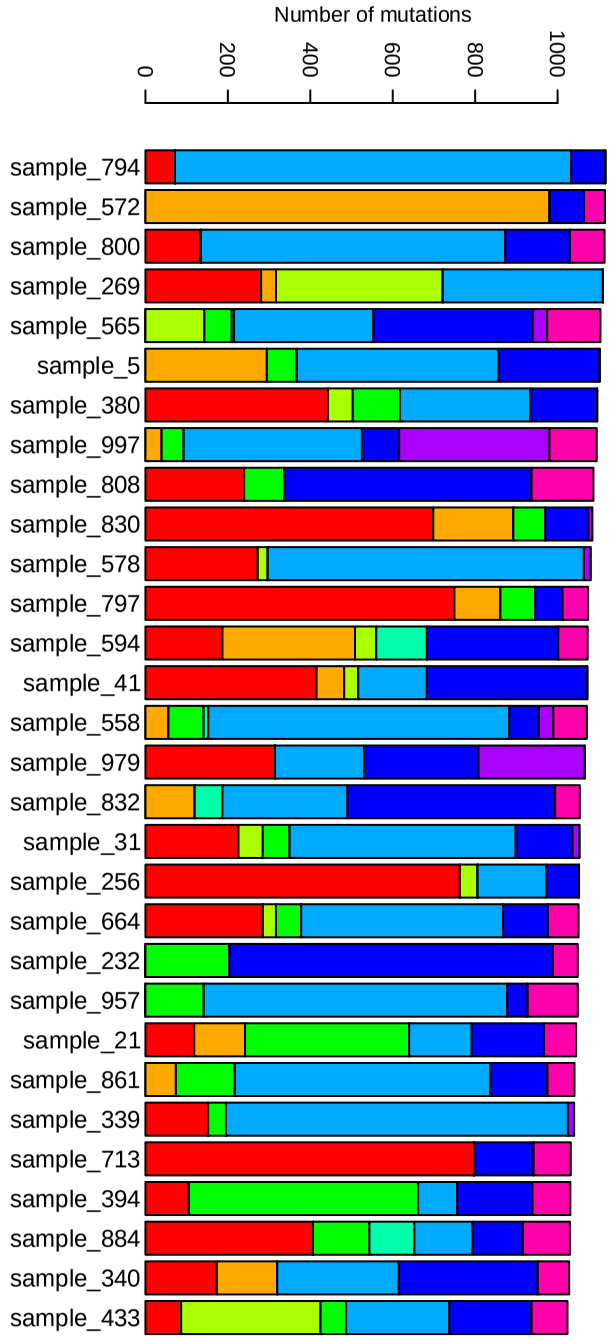
200
400
600
800
1000
sample_435
sample_34
sample_268
sample_367
sample_798
sample_398
sample_209
sample_322
sample_178
sample_871
sample_602
sample_839
sample_789
sample_986
sample_118
sample_874
sample_389
sample_331
sample_225
sample_319
sample_417
sample_228
sample_859
sample_738
sample_670
sample_203
sample_635
sample_74
sample_197
sample_768


Number of mutations
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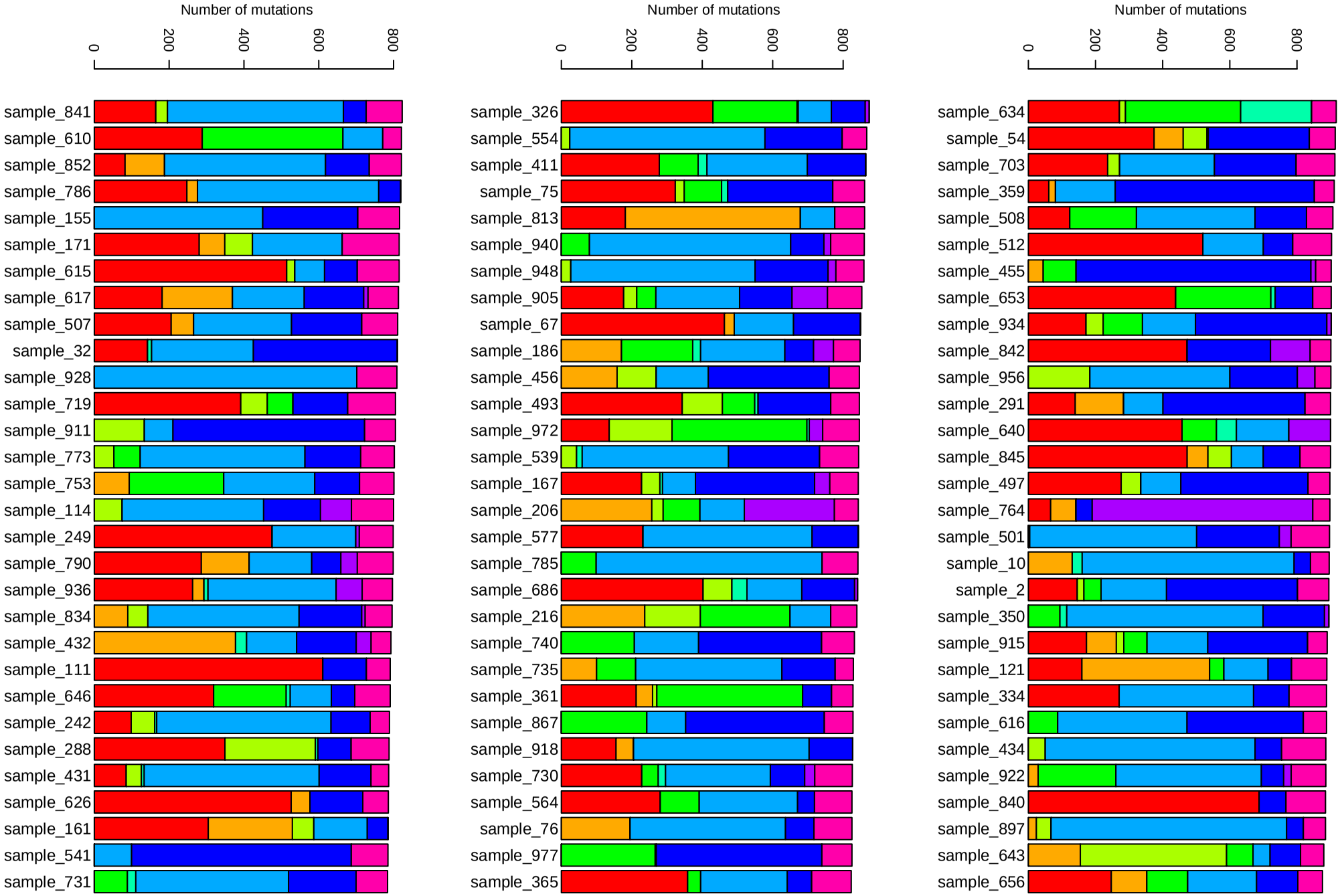
200
400
600
800
1000
sample_794
sample_572
sample_800
sample_269
sample_565
sample_5
sample_380
sample_997
sample_808
sample_830
sample_578
sample_797
sample_594
sample_41
sample_558
sample_979
sample_832
sample_31
sample_256
sample_664
sample_232
sample_957
sample_21
sample_861
sample_339
sample_713
sample_394
sample_884
sample_340
sample_433


Number of mutations
0
200
400
600
800
sample_841
sample_610
sample_852
sample_786
sample_155
sample_171
sample_615
sample_617
sample_507
sample_32
sample_928
sample_719
sample_911
sample_773
sample_753
sample_114
sample_249
sample_790
sample_936
sample_834
sample_432
sample_111
sample_646
sample_242
sample_288
sample_431
sample_626
sample_161
sample_541
sample_731
Number of mutations
0
200
400
600
800
sample_326
sample_554
sample_411
sample_75
sample_813
sample_940
sample_948
sample_905
sample_67
sample_186
sample_456
sample_493
sample_972
sample_539
sample_167
sample_206
sample_577
sample_785
sample_686
sample_216
sample_740
sample_735
sample_361
sample_867
sample_918
sample_730
sample_564
sample_76
sample_977
sample_365
Number of mutations
0
200
400
600
800
sample_634
sample_54
sample_703
sample_359
sample_508
sample_512
sample_455
sample_653
sample_934
sample_842
sample_956
sample_291
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sample_497
sample_764
sample_501
sample_10
sample_2
sample_350
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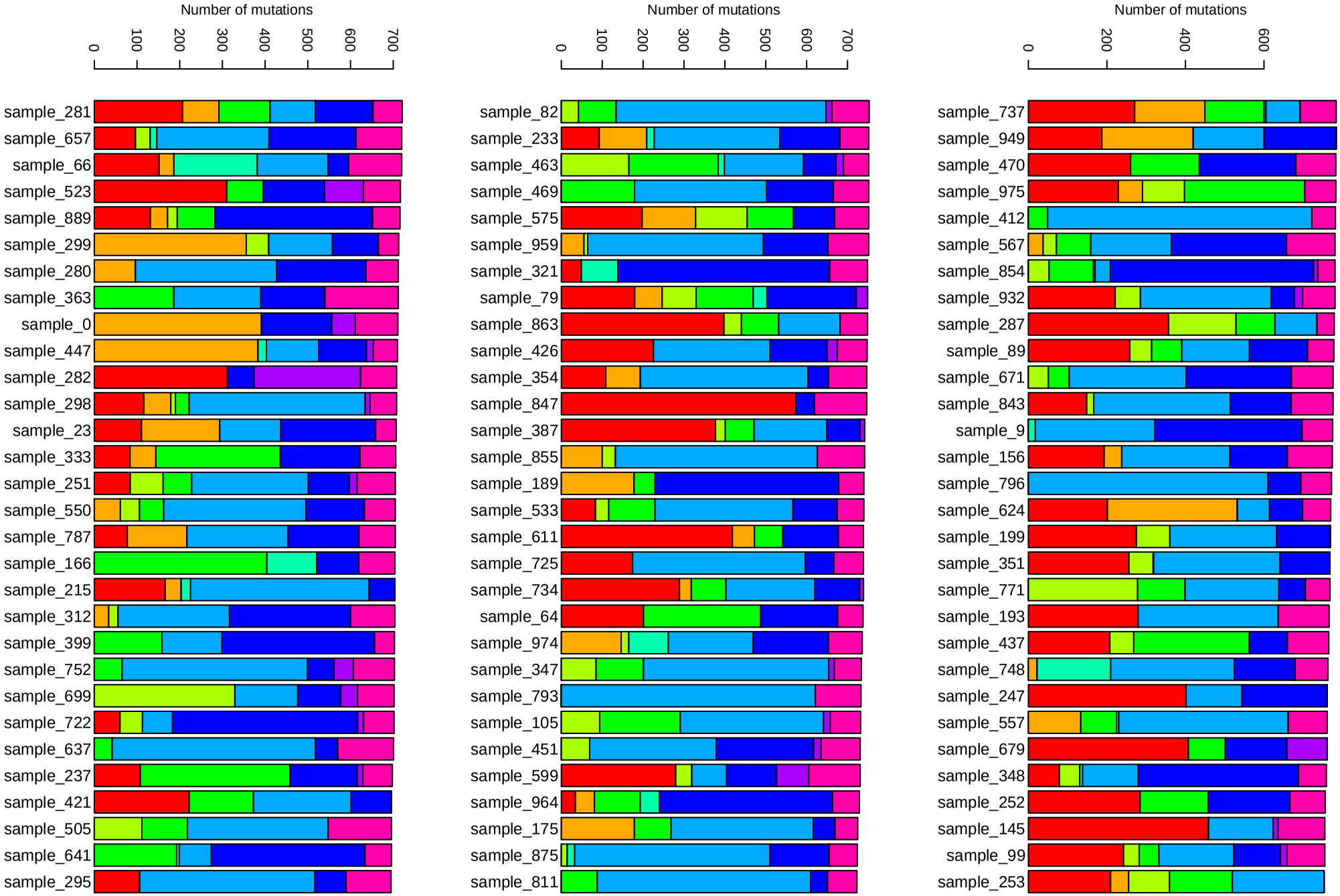
sample_121
sample_334
sample_616
sample_434
sample_922
sample_840
sample_897
sample_643
sample_656


Number of mutations
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100
200
300
400
500
600
700
sample_281
sample_657
sample_66
sample_523
sample_889
sample_299
sample_280
sample_363
sample_0
sample_447
sample_282
sample_298
sample_23
sample_333
sample_251
sample_550
sample_787
sample_166
sample_215
sample_312
sample_399
sample_752
sample_699
sample_722
sample_637
sample_237
sample_421
sample_505
sample_641
sample_295
Number of mutations
0
100
200
300
400
500
600
700
sample_82
sample_233
sample_463
sample_469
sample_575
sample_959
sample_321
sample_79
sample_863
sample_426
sample_354
sample_847
sample_387
sample_855
sample_189
sample_533
sample_611
sample_725
sample_734
sample_64
sample_974
sample_347
sample_793
sample_105
sample_451
sample_599
sample_964
sample_175
sample_875
sample_811
Number of mutations
0
200
400
600
sample_737
sample_949
sample_470
sample_975
sample_412
sample_567
sample_854
sample_932
sample_287
sample_89
sample_671
sample_843
sample_9
sample_156
sample_796
sample_624
sample_199
sample_351
sample_771
sample_193
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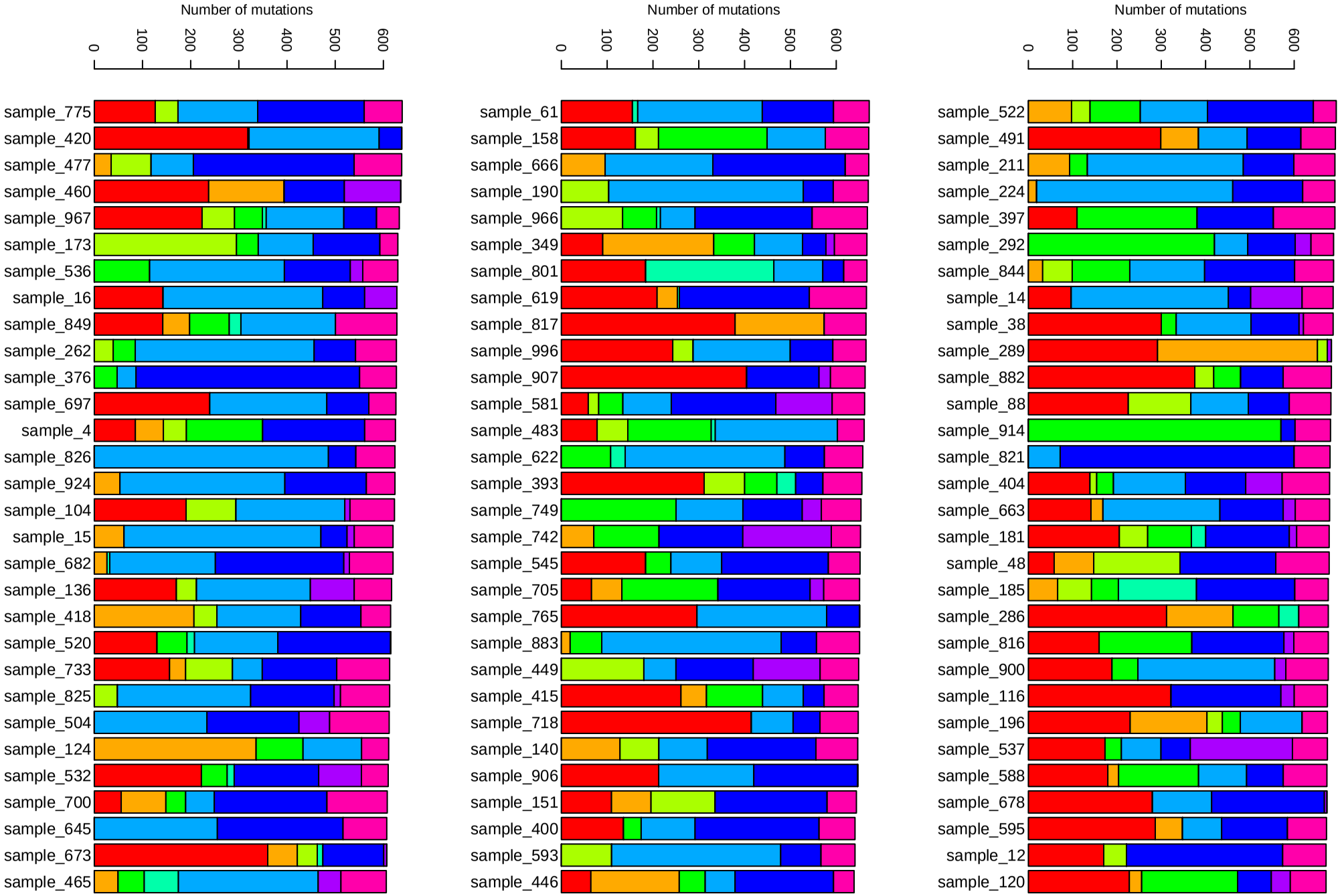
sample_557
sample_679
sample_348
sample_252
sample_145
sample_99
sample_253


Number of mutations
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100
200
300
400
500
600
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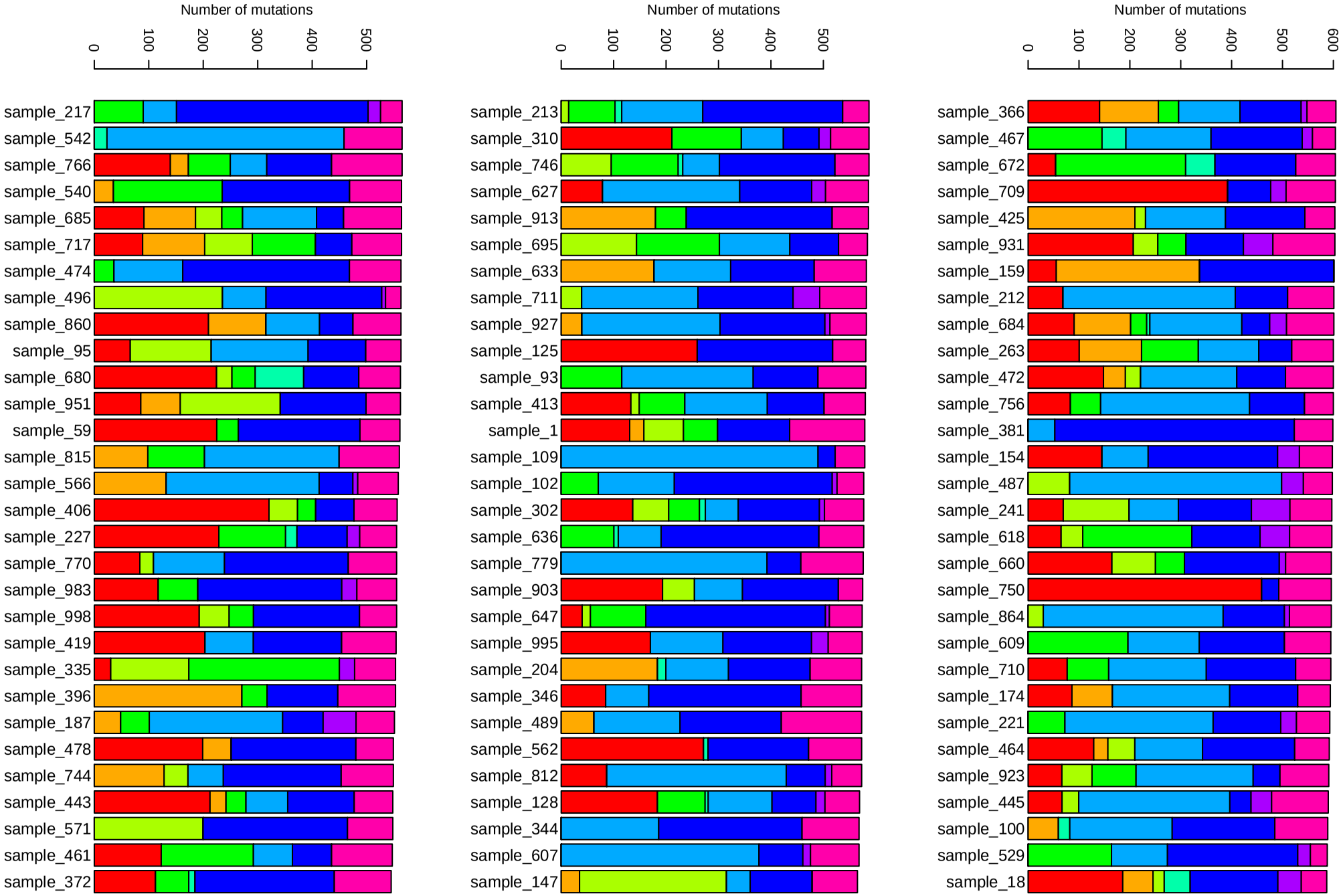
sample_477
sample_460
sample_967
sample_173
sample_536
sample_16
sample_849
sample_262
sample_376
sample_697
sample_4
sample_826
sample_924
sample_104
sample_15
sample_682
sample_136
sample_418
sample_520
sample_733
sample_825
sample_504
sample_124
sample_532
sample_700
sample_645
sample_673
sample_465
Number of mutations
0
100
200
300
400
500
600
sample_61
sample_158
sample_666
sample_190
sample_966
sample_349
sample_801
sample_619
sample_817
sample_996
sample_907
sample_581
sample_483
sample_622
sample_393
sample_749
sample_742
sample_545
sample_705
sample_765
sample_883
sample_449
sample_415
sample_718
sample_140
sample_906
sample_151
sample_400
sample_593
sample_446
Number of mutations
0
100
200
300
400
500
600
sample_522
sample_491
sample_211
sample_224
sample_397
sample_292
sample_844
sample_14
sample_38
sample_289
sample_882
sample_88
sample_914
sample_821
sample_404
sample_663
sample_181
sample_48
sample_185
sample_286
sample_816
sample_900
sample_116
sample_196
sample_537
sample_588
sample_678
sample_595
sample_12
sample_120


Number of mutations
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100
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300
400
500
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sample_542
sample_766
sample_540
sample_685
sample_717
sample_474
sample_496
sample_860
sample_95
sample_680
sample_951
sample_59
sample_815
sample_566
sample_406
sample_227
sample_770
sample_983
sample_998
sample_419
sample_335
sample_396
sample_187
sample_478
sample_744
sample_443
sample_571
sample_461
sample_372
Number of mutations
0
100
200
300
400
500
sample_213
sample_310
sample_746
sample_627
sample_913
sample_695
sample_633
sample_711
sample_927
sample_125
sample_93
sample_413
sample_1
sample_109
sample_102
sample_302
sample_636
sample_779
sample_903
sample_647
sample_995
sample_204
sample_346
sample_489
sample_562
sample_812
sample_128
sample_344
sample_607
sample_147
Number of mutations
0
100
200
300
400
500
600
sample_366
sample_467
sample_672
sample_709
sample_425
sample_931
sample_159
sample_212
sample_684
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sample_241
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sample_660
sample_750
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sample_710
sample_174
sample_221
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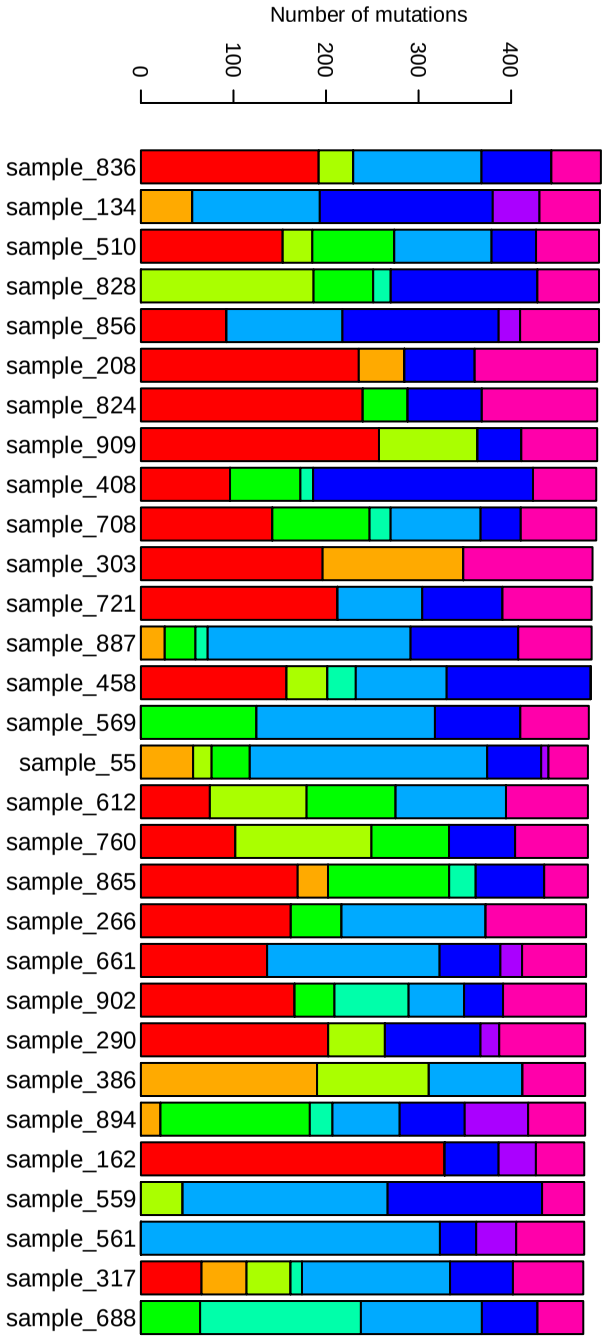
sample_100
sample_529
sample_18


Number of mutations
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100
200
300
400
sample_836
sample_134
sample_510
sample_828
sample_856
sample_208
sample_824
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sample_408
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sample_721
sample_887
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sample_612
sample_760
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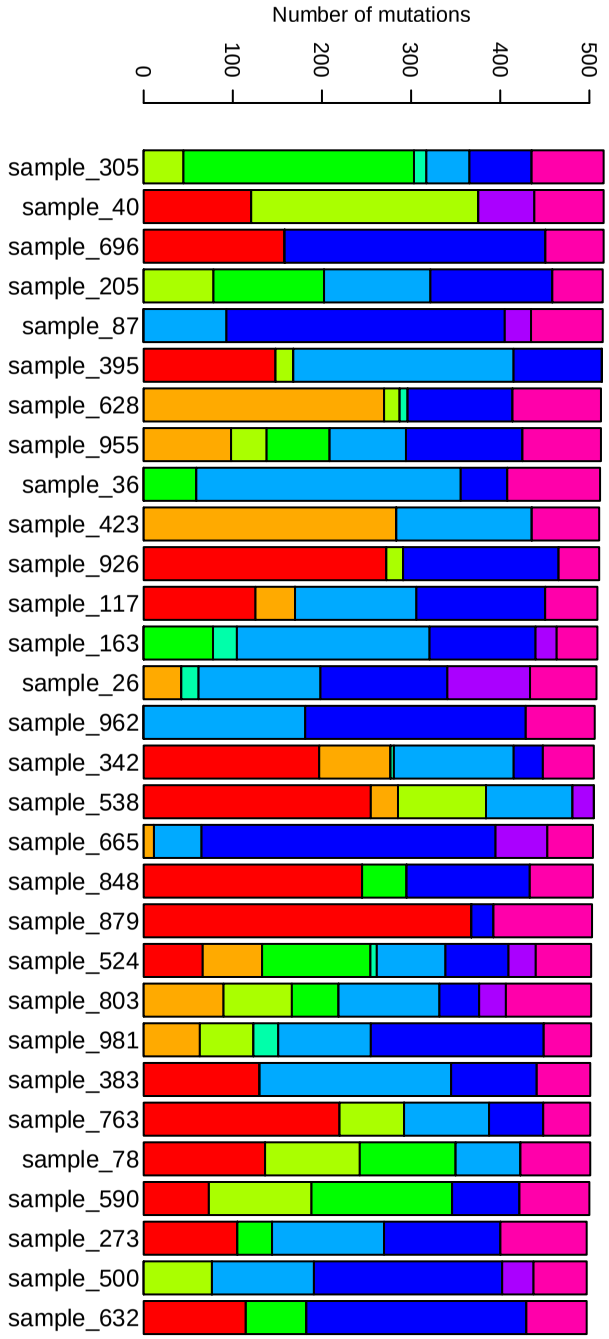
sample_661
sample_902
sample_290
sample_386
sample_894
sample_162
sample_559
sample_561
sample_317
sample_688


Number of mutations
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100
200
300
400
500
sample_305
sample_40
sample_696
sample_205
sample_87
sample_395
sample_628
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sample_665
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sample_803
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sample_383
sample_763
sample_78
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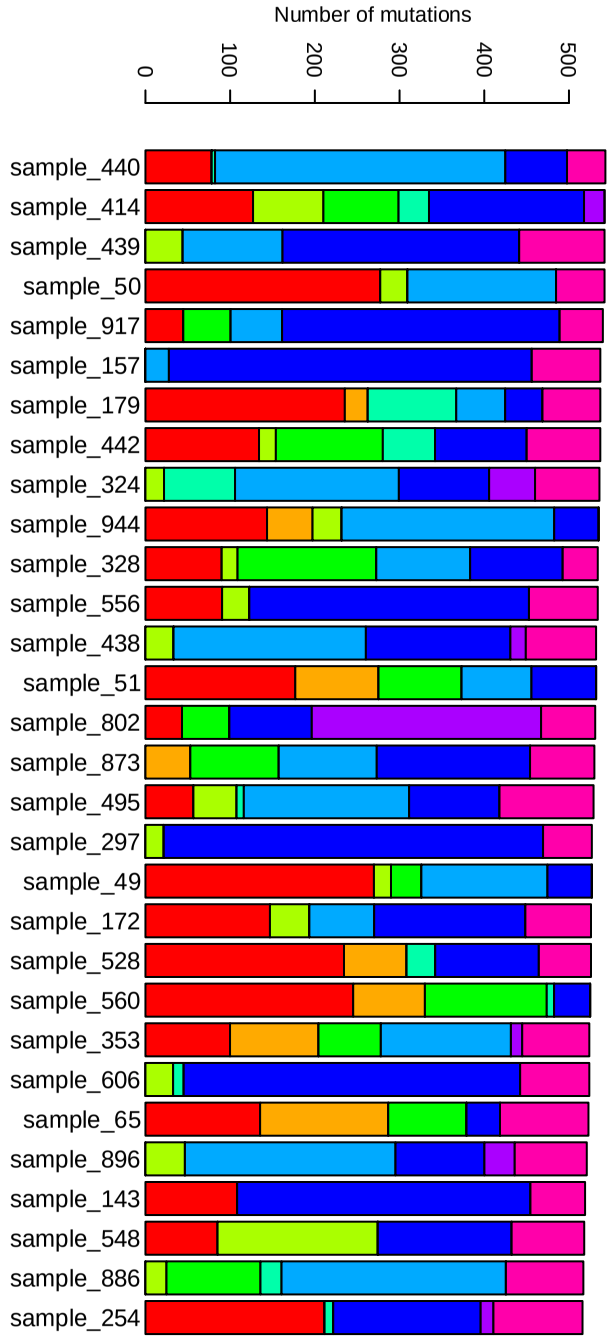
sample_273
sample_500
sample_632


Number of mutations
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100
200
300
400
500
sample_440
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sample_439
sample_50
sample_917
sample_157
sample_179
sample_442
sample_324
sample_944
sample_328
sample_556
sample_438
sample_51
sample_802
sample_873
sample_495
sample_297
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sample_560
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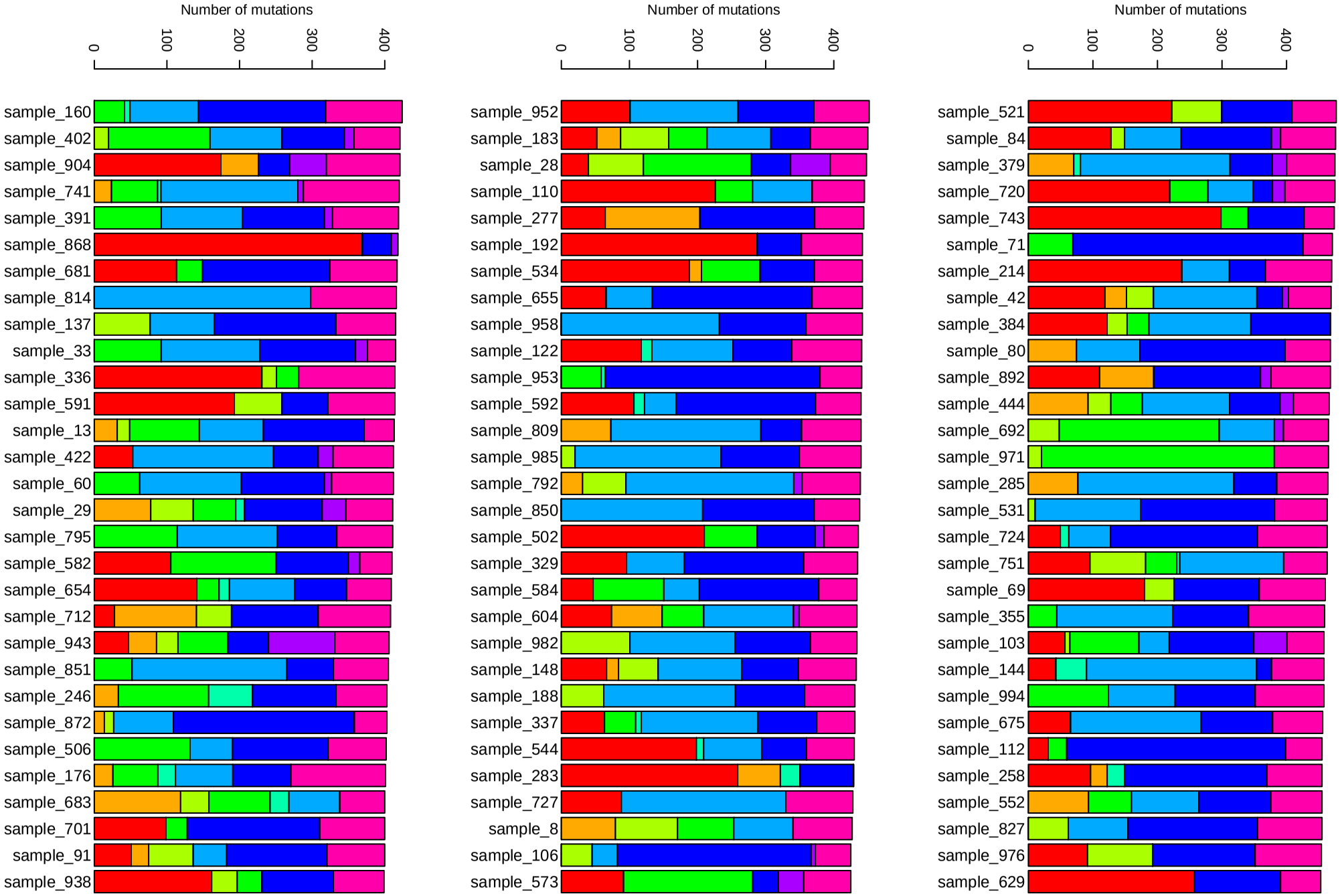
sample_606
sample_65
sample_896
sample_143
sample_548
sample_886
sample_254


Number of mutations
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100
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300
400
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sample_391
sample_868
sample_681
sample_814
sample_137
sample_33
sample_336
sample_591
sample_13
sample_422
sample_60
sample_29
sample_795
sample_582
sample_654
sample_712
sample_943
sample_851
sample_246
sample_872
sample_506
sample_176
sample_683
sample_701
sample_91
sample_938
Number of mutations
0
100
200
300
400
sample_952
sample_183
sample_28
sample_110
sample_277
sample_192
sample_534
sample_655
sample_958
sample_122
sample_953
sample_592
sample_809
sample_985
sample_792
sample_850
sample_502
sample_329
sample_584
sample_604
sample_982
sample_148
sample_188
sample_337
sample_544
sample_283
sample_727
sample_8
sample_106
sample_573
Number of mutations
0
100
200
300
400
sample_521
sample_84
sample_379
sample_720
sample_743
sample_71
sample_214
sample_42
sample_384
sample_80
sample_892
sample_444
sample_692
sample_971
sample_285
sample_531
sample_724
sample_751
sample_69
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sample_144
sample_994
sample_675
sample_112
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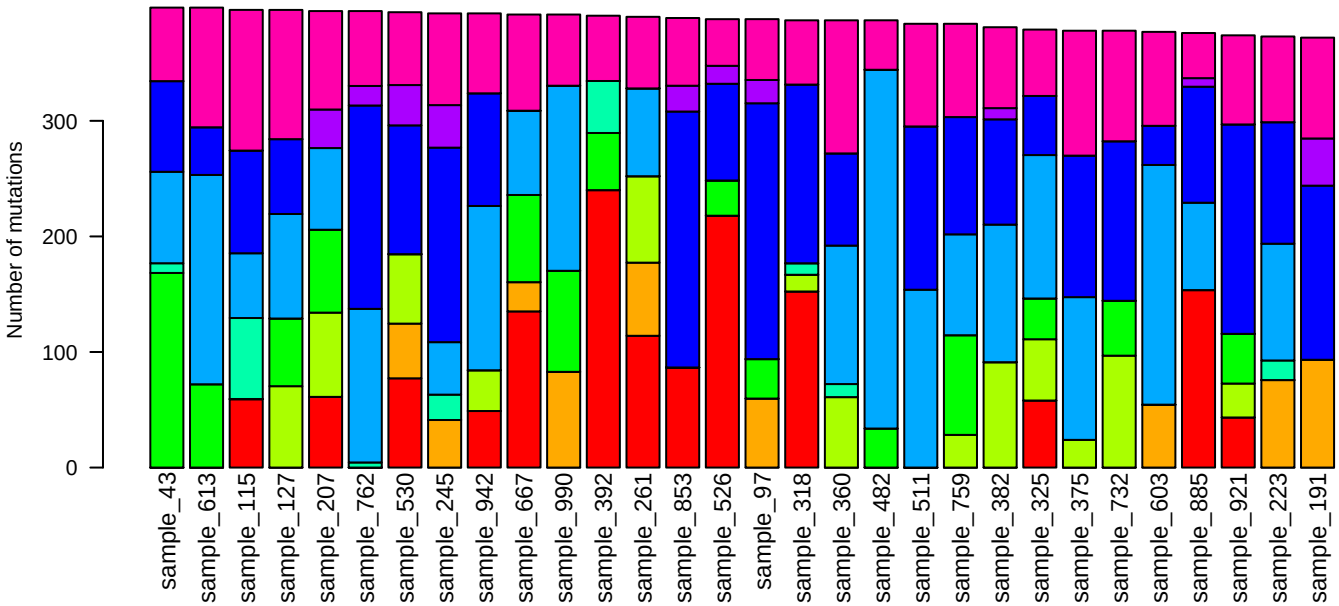
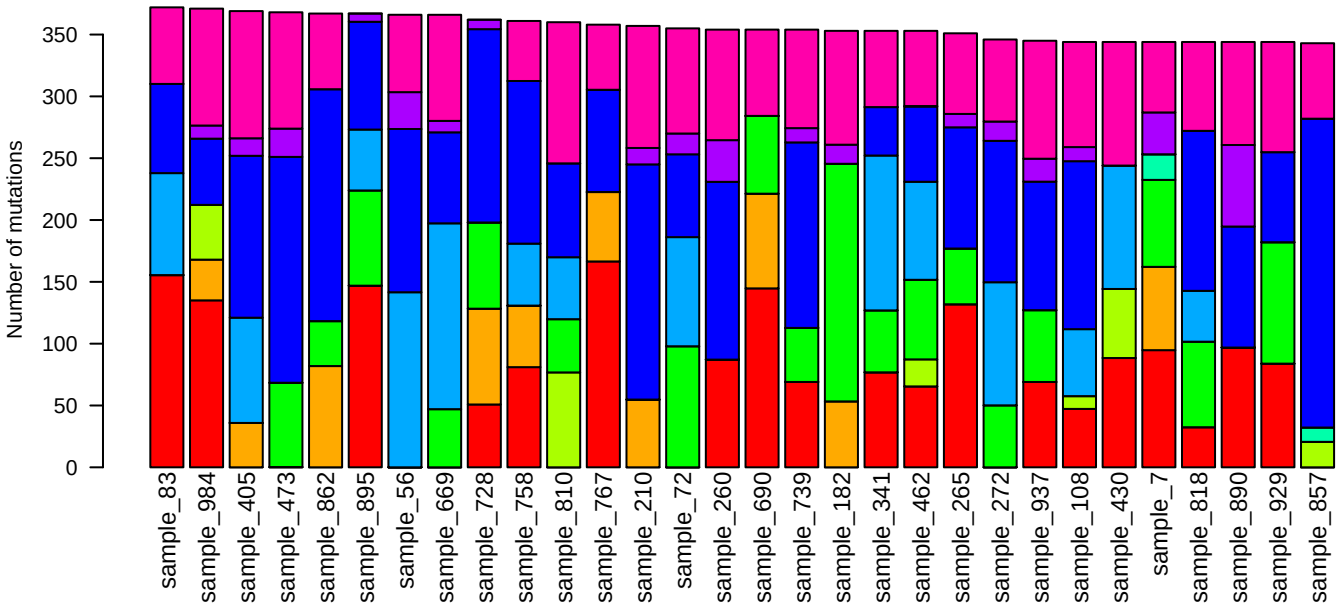
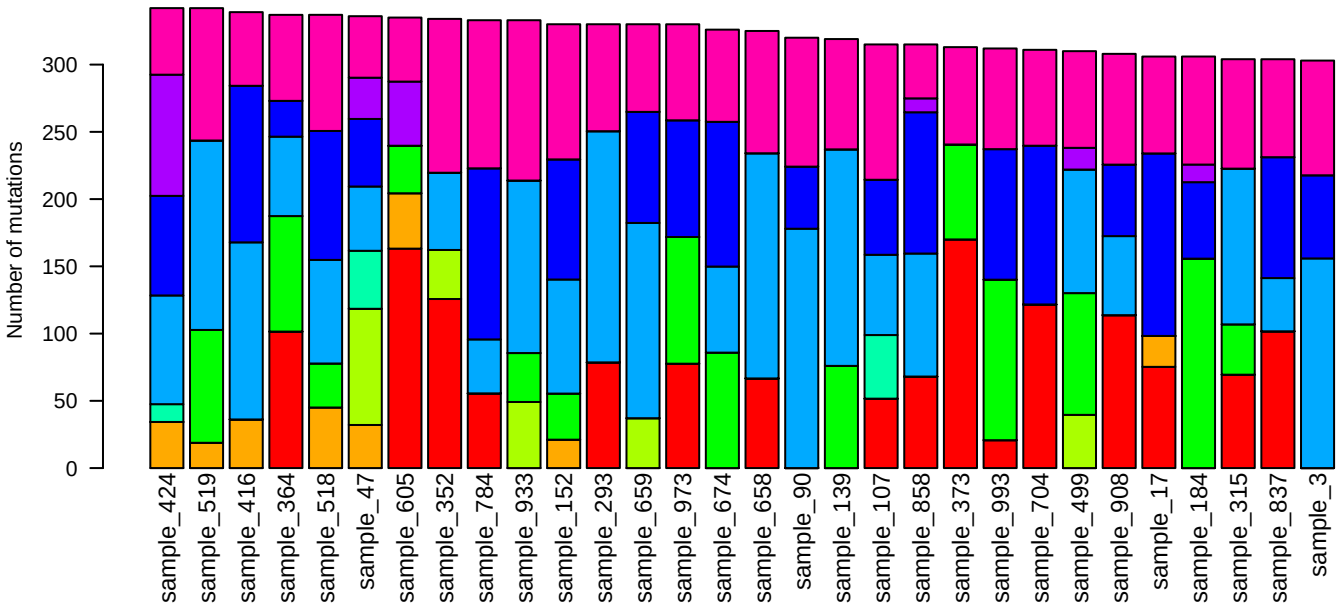
sample_552
sample_827
sample_976
sample_629


Number of mutations
0
100
200
300
sample_43
sample_613
sample_115
sample_127
sample_207
sample_762
sample_530
sample_245
sample_942
sample_667
sample_990
sample_392
sample_261
sample_853
sample_526
sample_97
sample_318
sample_360
sample_482
sample_511
sample_759
sample_382
sample_325
sample_375
sample_732
sample_603
sample_885
sample_921
sample_223
sample_191


Number of mutations
0
50
100
150
200
250
300
350
sample_83
sample_984
sample_405
sample_473
sample_862
sample_895
sample_56
sample_669
sample_728
sample_758
sample_810
sample_767
sample_210
sample_72
sample_260
sample_690
sample_739
sample_182
sample_341
sample_462
sample_265
sample_272
sample_937
sample_108
sample_430
sample_7
sample_818
sample_890
sample_929
sample_857


Number of mutations
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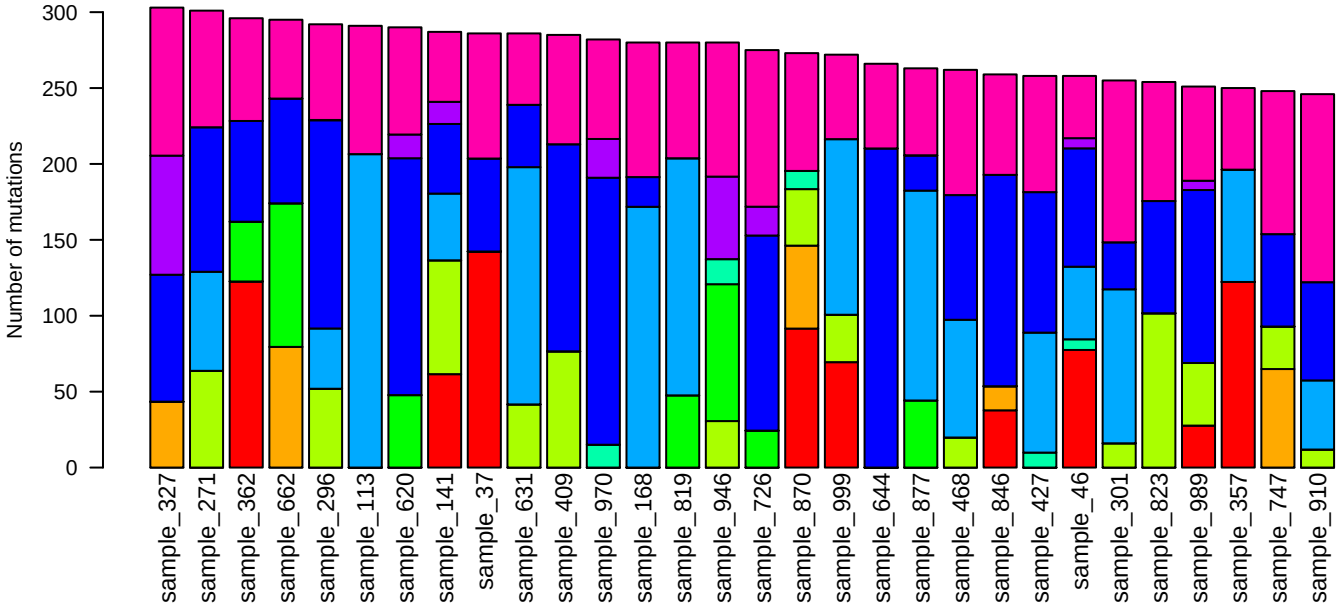
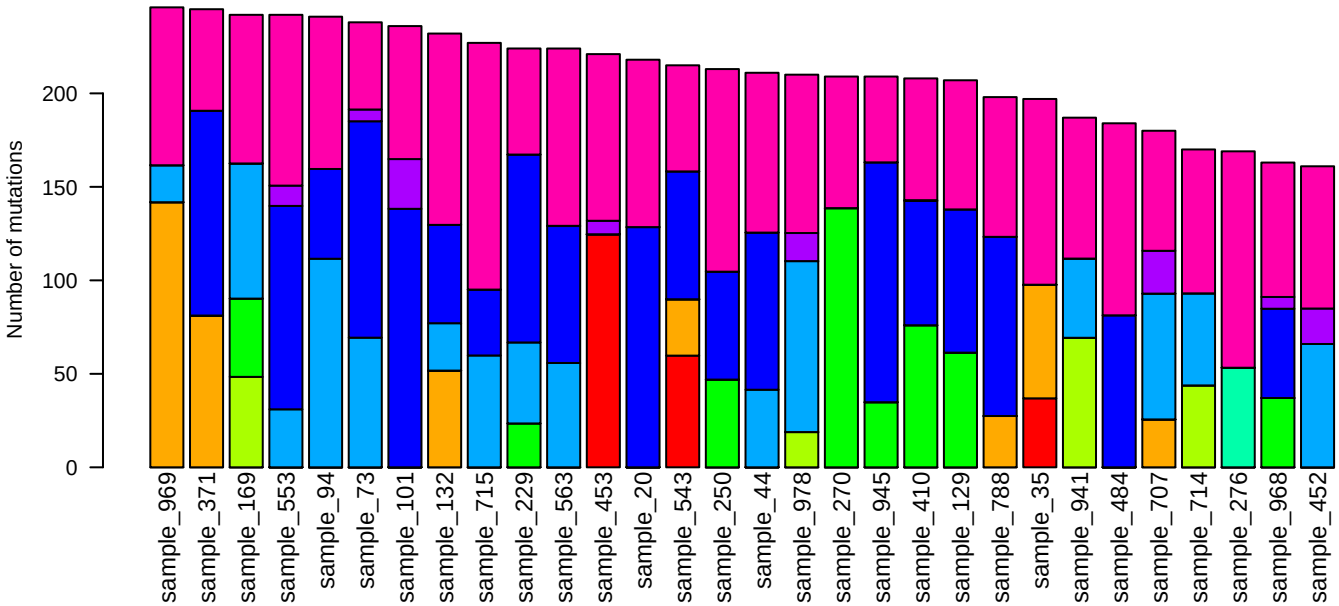
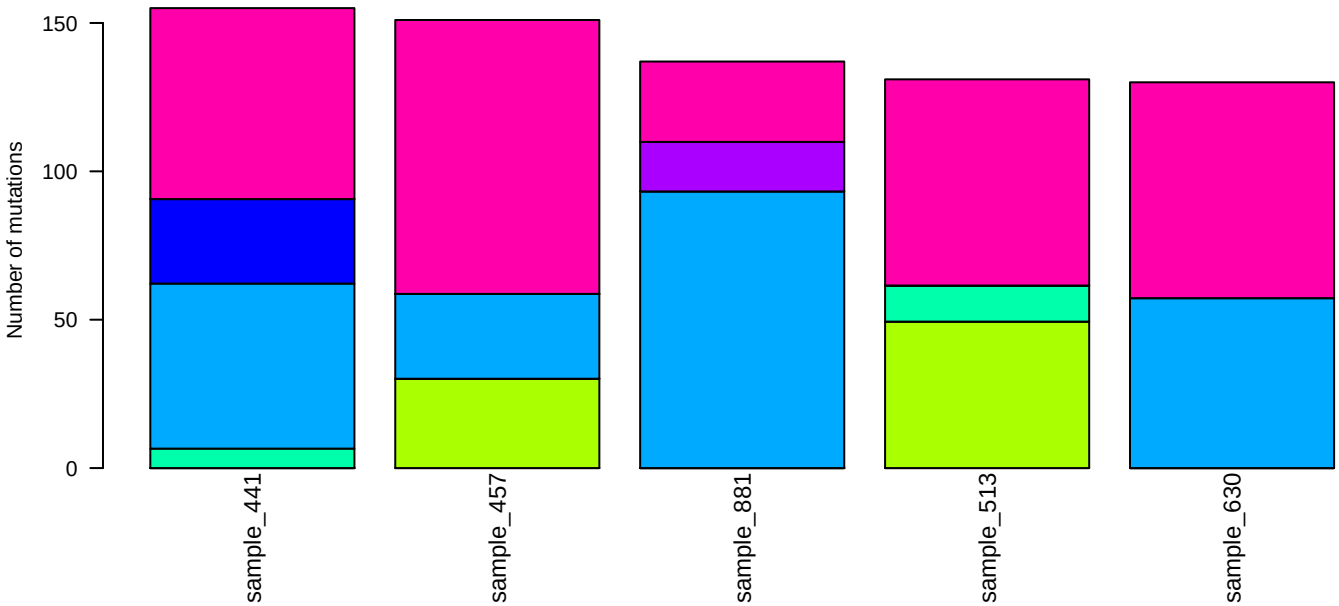
50
100
150
200
250
300
sample_424
sample_519
sample_416
sample_364
sample_518
sample_47
sample_605
sample_352
sample_784
sample_933
sample_152
sample_293
sample_659
sample_973
sample_674
sample_658
sample_90
sample_139
sample_107
sample_858
sample_373
sample_993
sample_704
sample_499
sample_908
sample_17
sample_184
sample_315
sample_837
sample_3


Number of mutations
0
50
100
150
200
250
300
sample_327
sample_271
sample_362
sample_662
sample_296
sample_113
sample_620
sample_141
sample_37
sample_631
sample_409
sample_970
sample_168
sample_819
sample_946
sample_726
sample_870
sample_999
sample_644
sample_877
sample_468
sample_846
sample_427
sample_46
sample_301
sample_823
sample_989
sample_357
sample_747
sample_910


Number of mutations
0
50
100
150
200
sample_969
sample_371
sample_169
sample_553
sample_94
sample_73
sample_101
sample_132
sample_715
sample_229
sample_563
sample_453
sample_20
sample_543
sample_250
sample_44
sample_978
sample_270
sample_945
sample_410
sample_129
sample_788
sample_35
sample_941
sample_484
sample_707
sample_714
sample_276
sample_968
sample_452


Number of mutations
0
50
100
150
sample_441
sample_457
sample_881
sample_513
sample_630