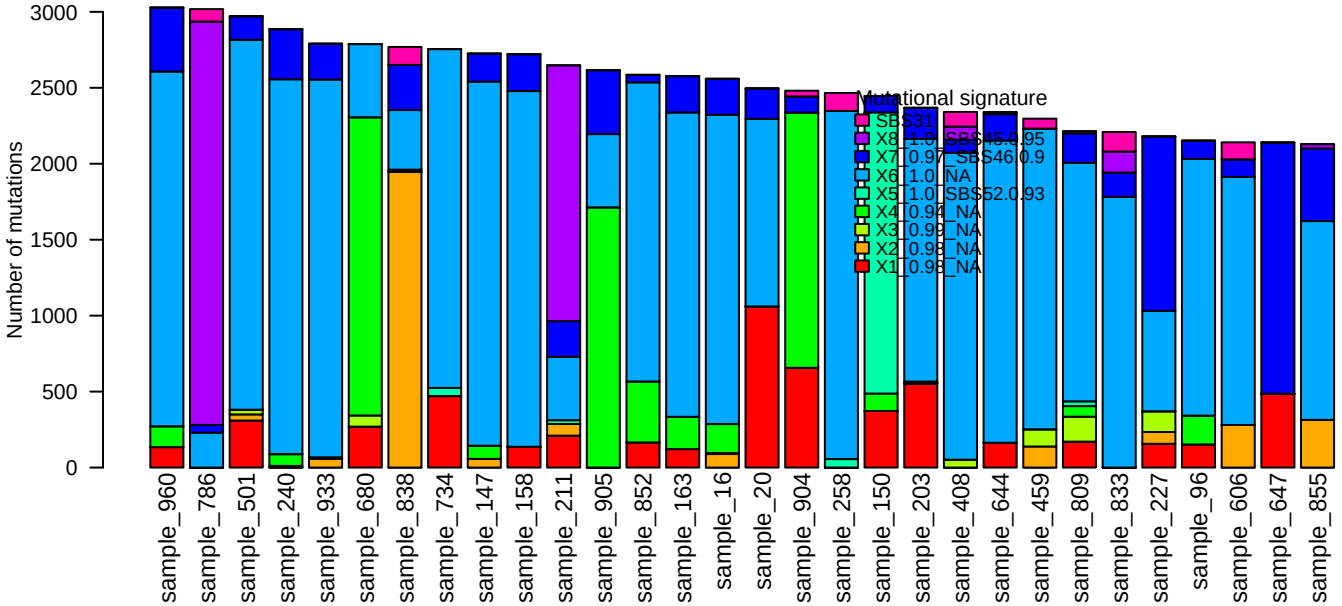
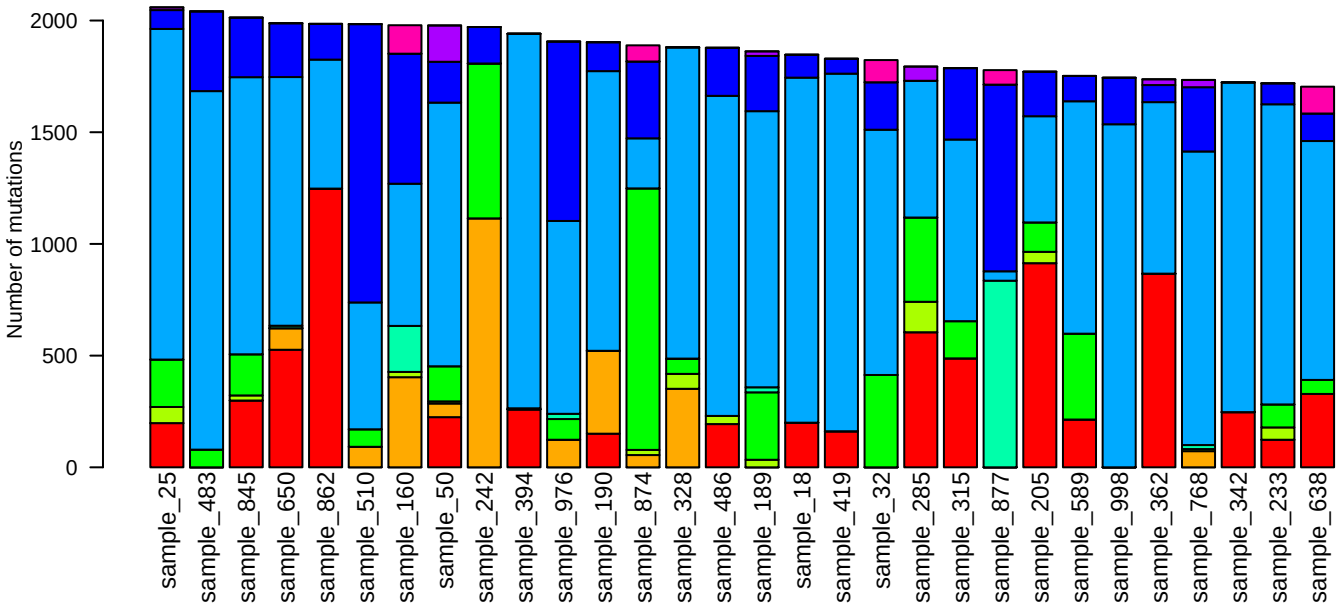
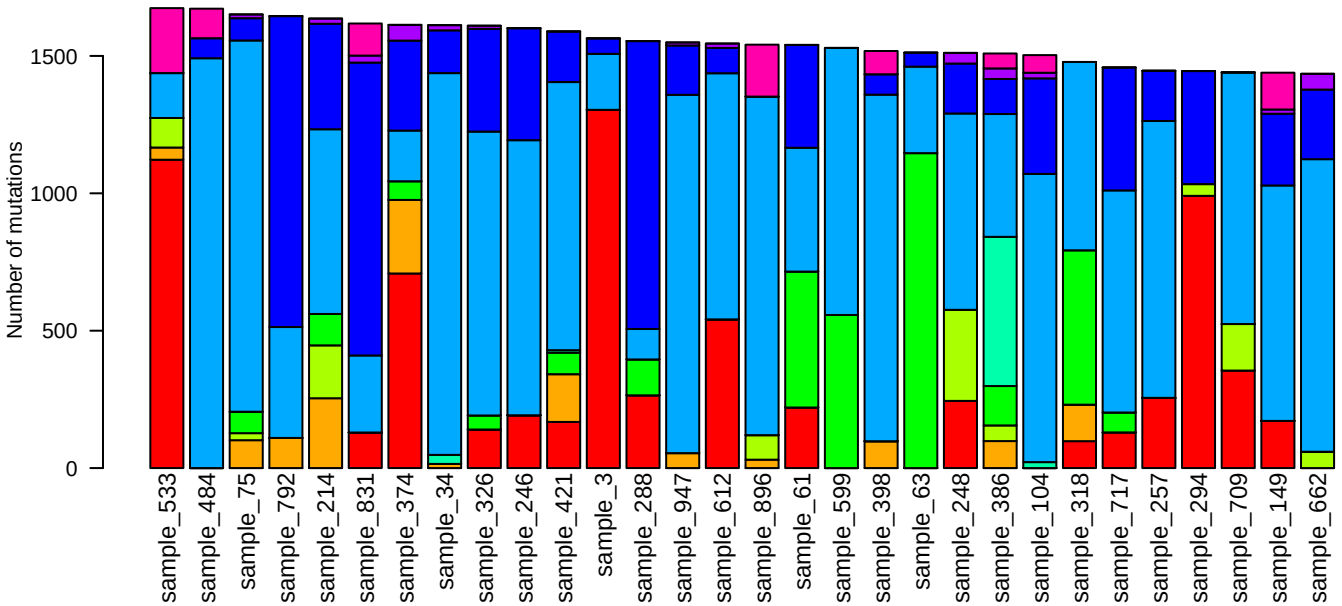
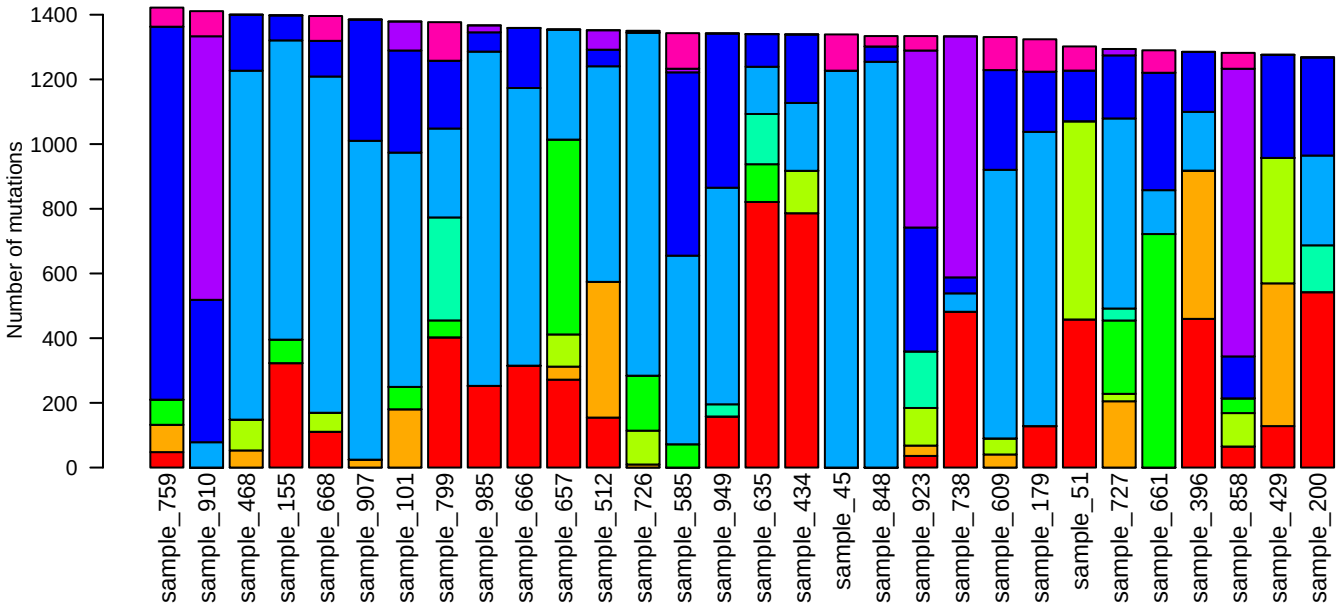
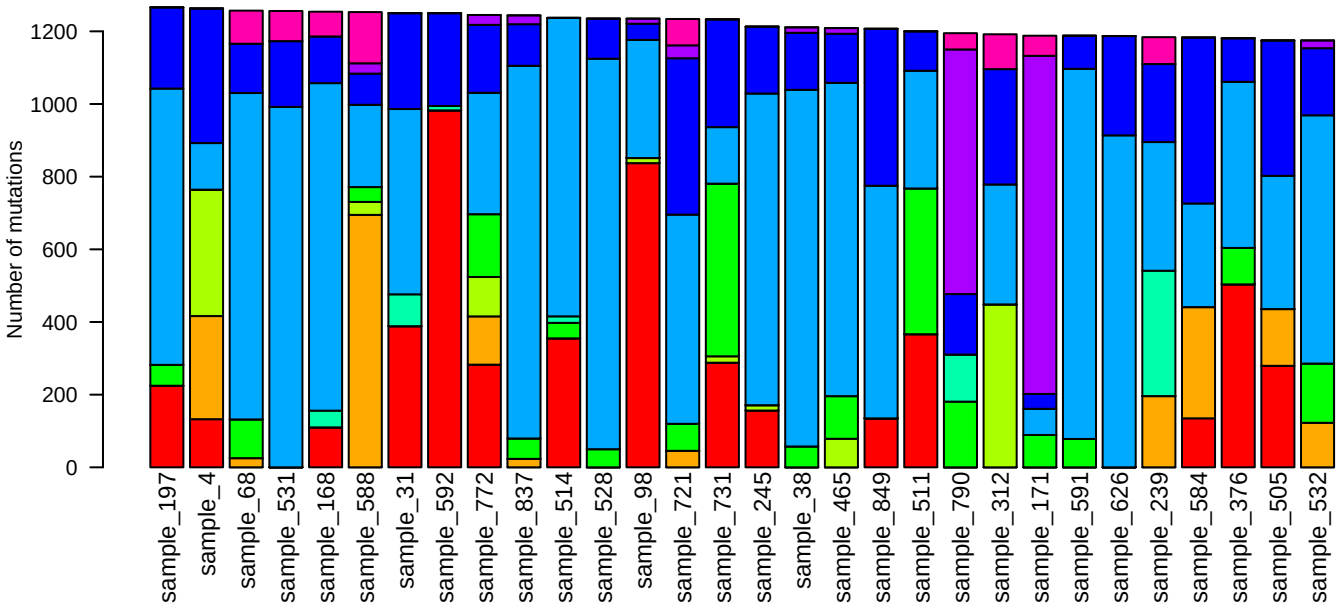
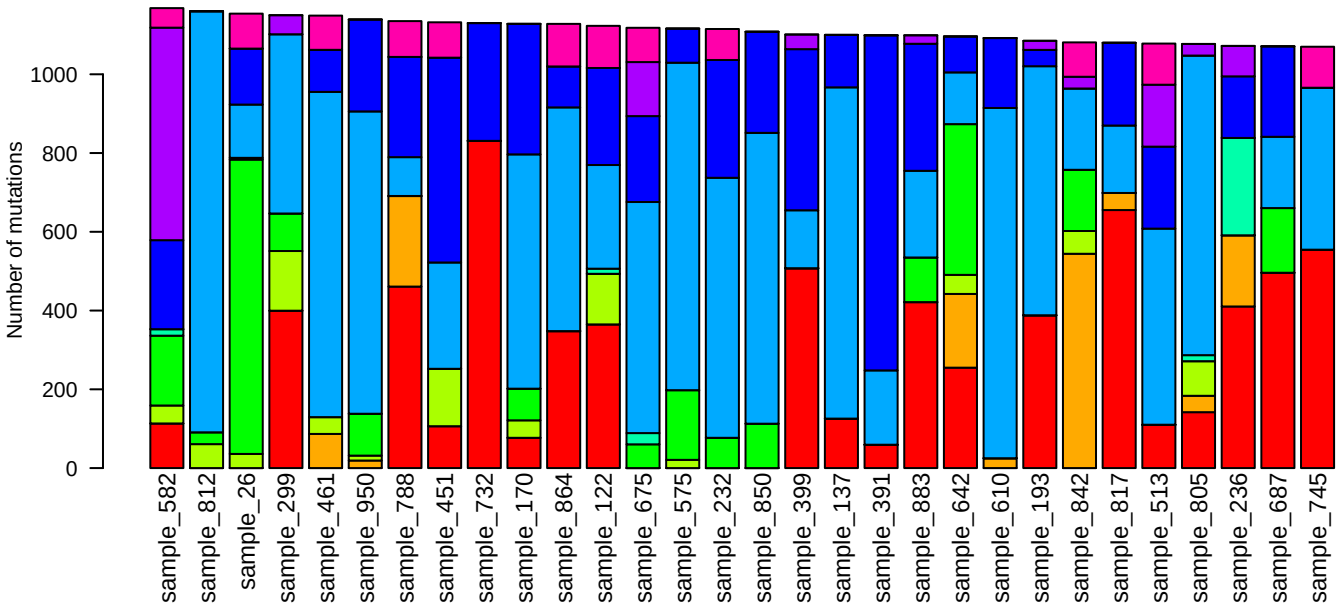

Number of mutations
3000
2500
2000
1500
1000
500
0
Mutational signature
SBS31
X8_1.0_SBS45.0.95
X7_0.97_SBS46.0.9
X6_1.0_NA
X5_1.0_SBS52.0.93
X4_0.94_NA
X3_0.99_NA
X2_0.98_NA
X1_0.98_NA
sample_960
sample_786
sample_501
sample_240
sample_933
sample_680
sample_838
sample_734
sample_147
sample_158
sample_211
sample_905
sample_852
sample_163
sample_16
sample_20
sample_904
sample_258
sample_150
sample_203
sample_408
sample_644
sample_459
sample_809
sample_833
sample_227
sample_96
sample_606
sample_647
sample_855

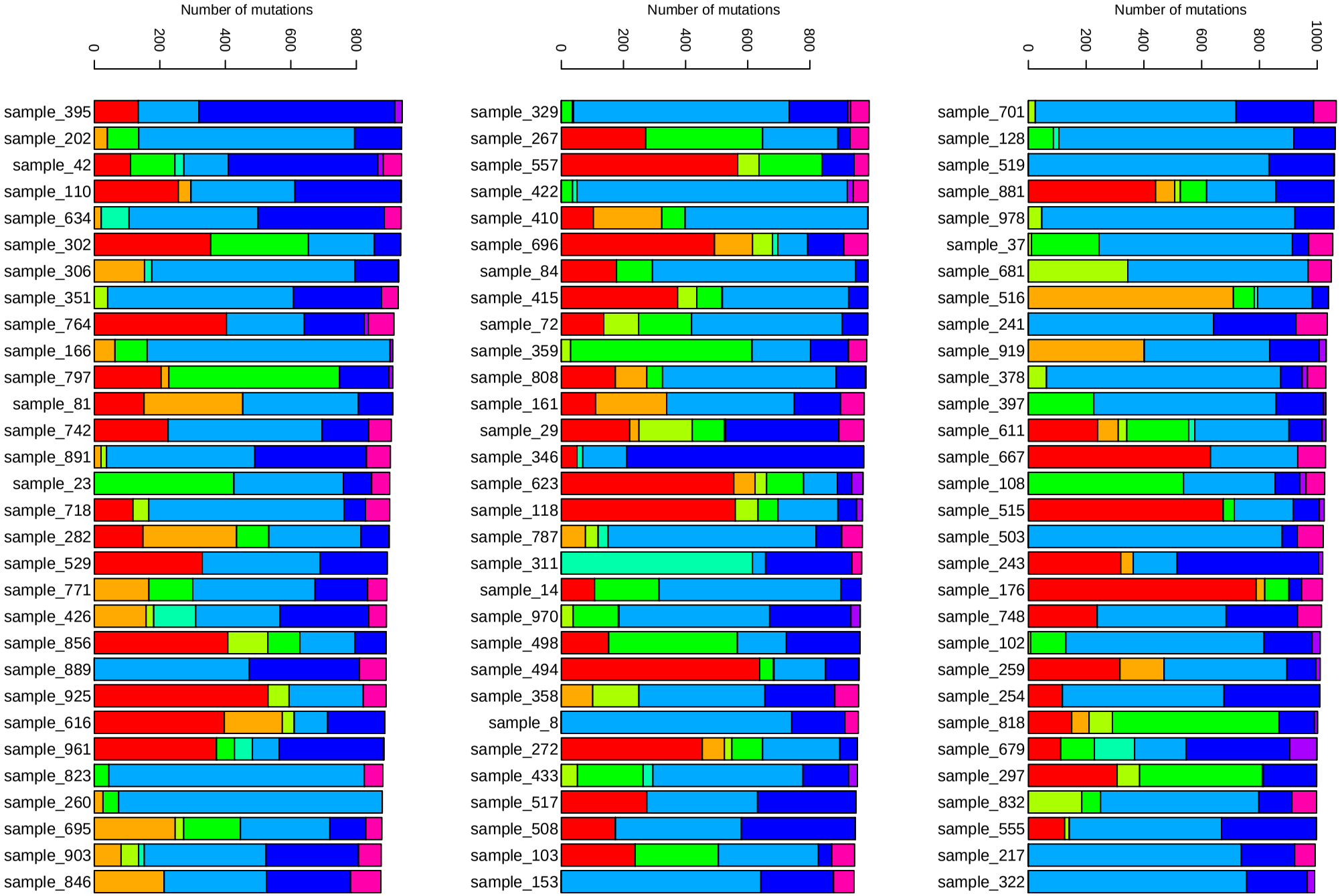

Number of mutations
2000
1500
1000
500
0
sample_25
sample_483
sample_845
sample_650
sample_862
sample_510
sample_160
sample_50
sample_242
sample_394
sample_976
sample_190
sample_874
sample_328
sample_486
sample_189
sample_18
sample_419
sample_32
sample_285
sample_315
sample_877
sample_205
sample_589
sample_998
sample_362
sample_768
sample_342
sample_233
sample_638

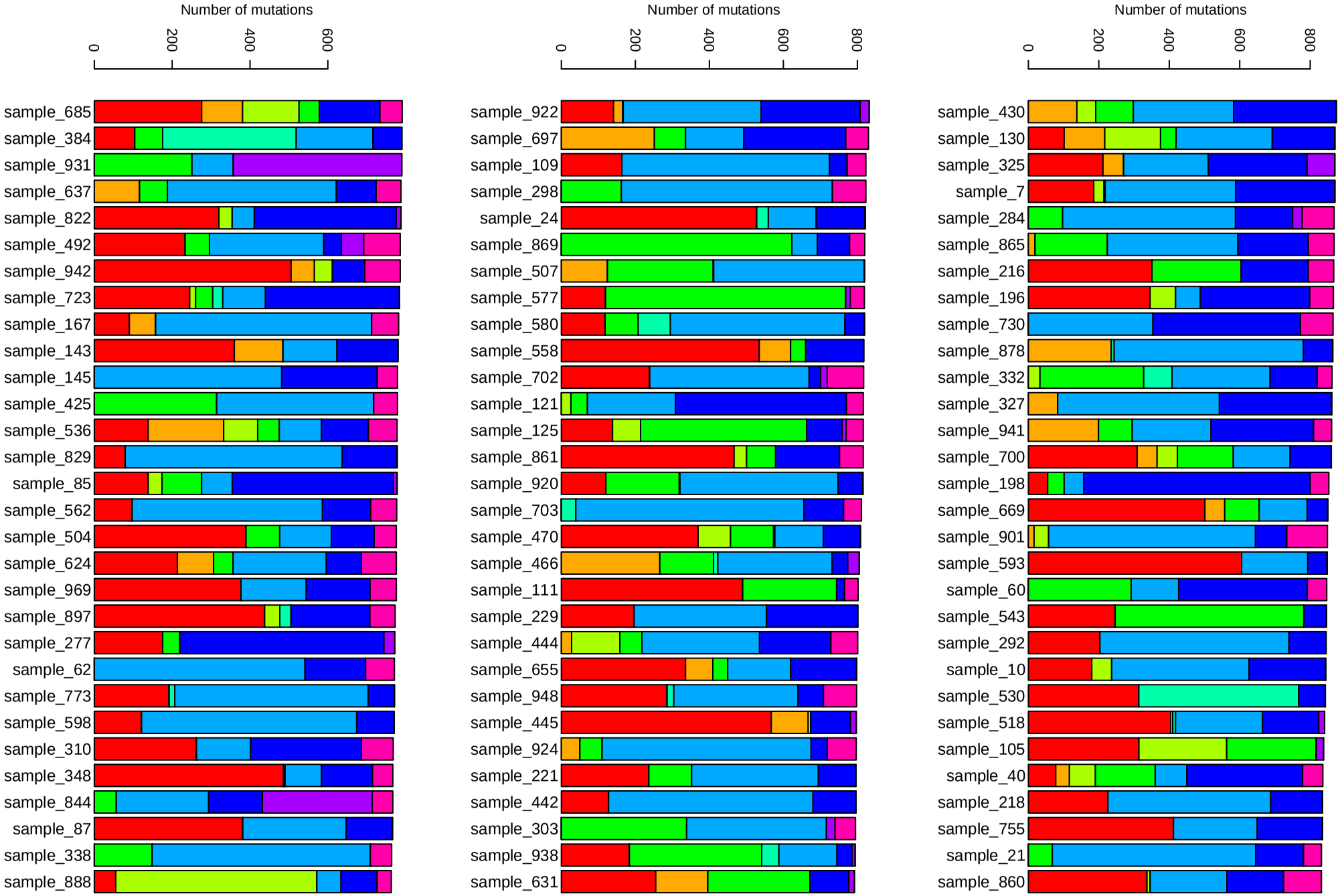

Number of mutations
1500
1000
500
0
sample_533
sample_484
sample_75
sample_792
sample_214
sample_831
sample_374
sample_34
sample_326
sample_246
sample_421
sample_3
sample_288
sample_947
sample_612
sample_896
sample_61
sample_599
sample_398
sample_63
sample_248
sample_386
sample_104
sample_318
sample_717
sample_257
sample_294
sample_709
sample_149
sample_662

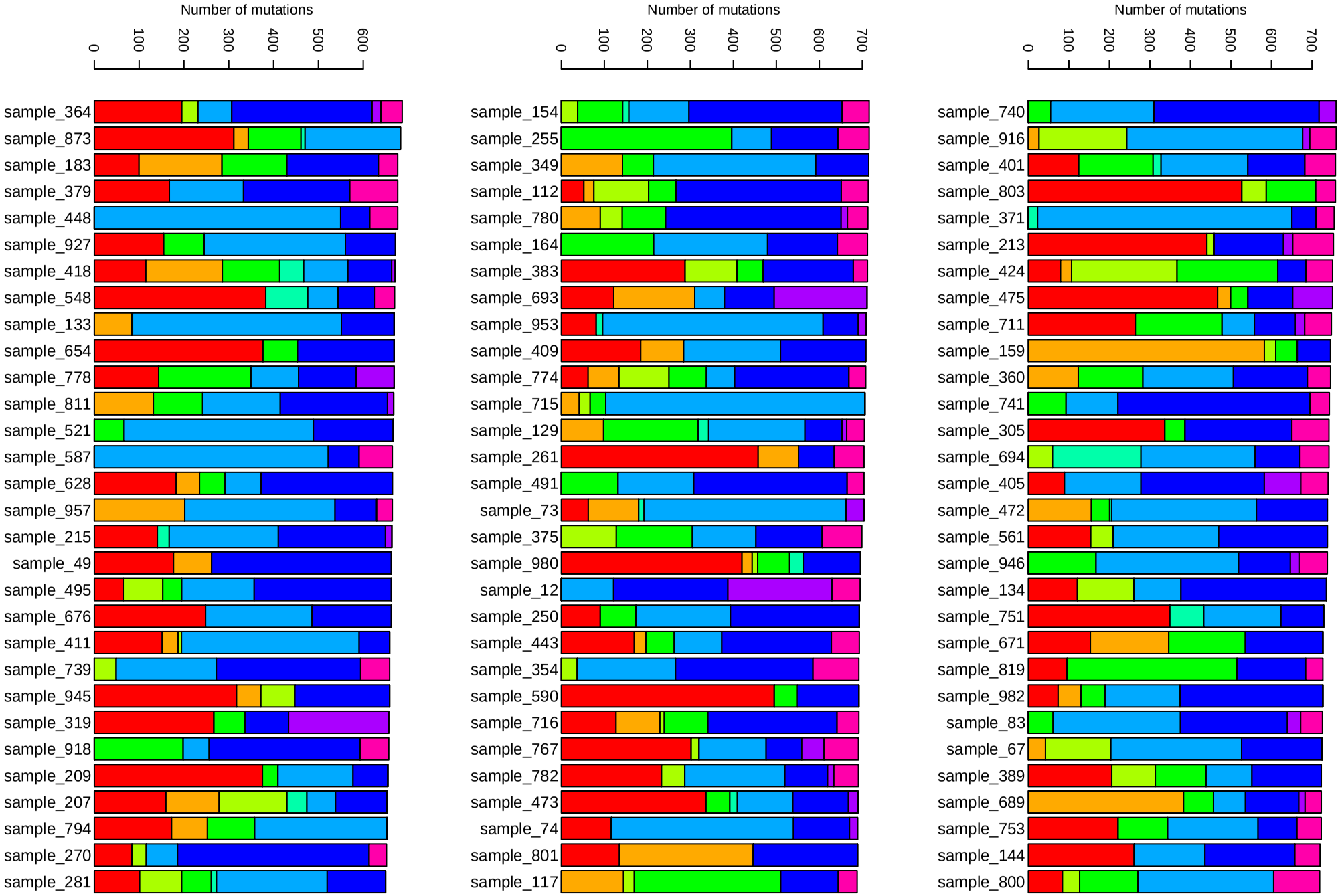

Number of mutations
0
200
400
600
800
1000
1200
1400
sample_759
sample_910
sample_468
sample_155
sample_668
sample_907
sample_101
sample_799
sample_985
sample_666
sample_657
sample_512
sample_726
sample_585
sample_949
sample_635
sample_434
sample_45
sample_848
sample_923
sample_738
sample_609
sample_179
sample_51
sample_727
sample_661
sample_396
sample_858
sample_429
sample_200

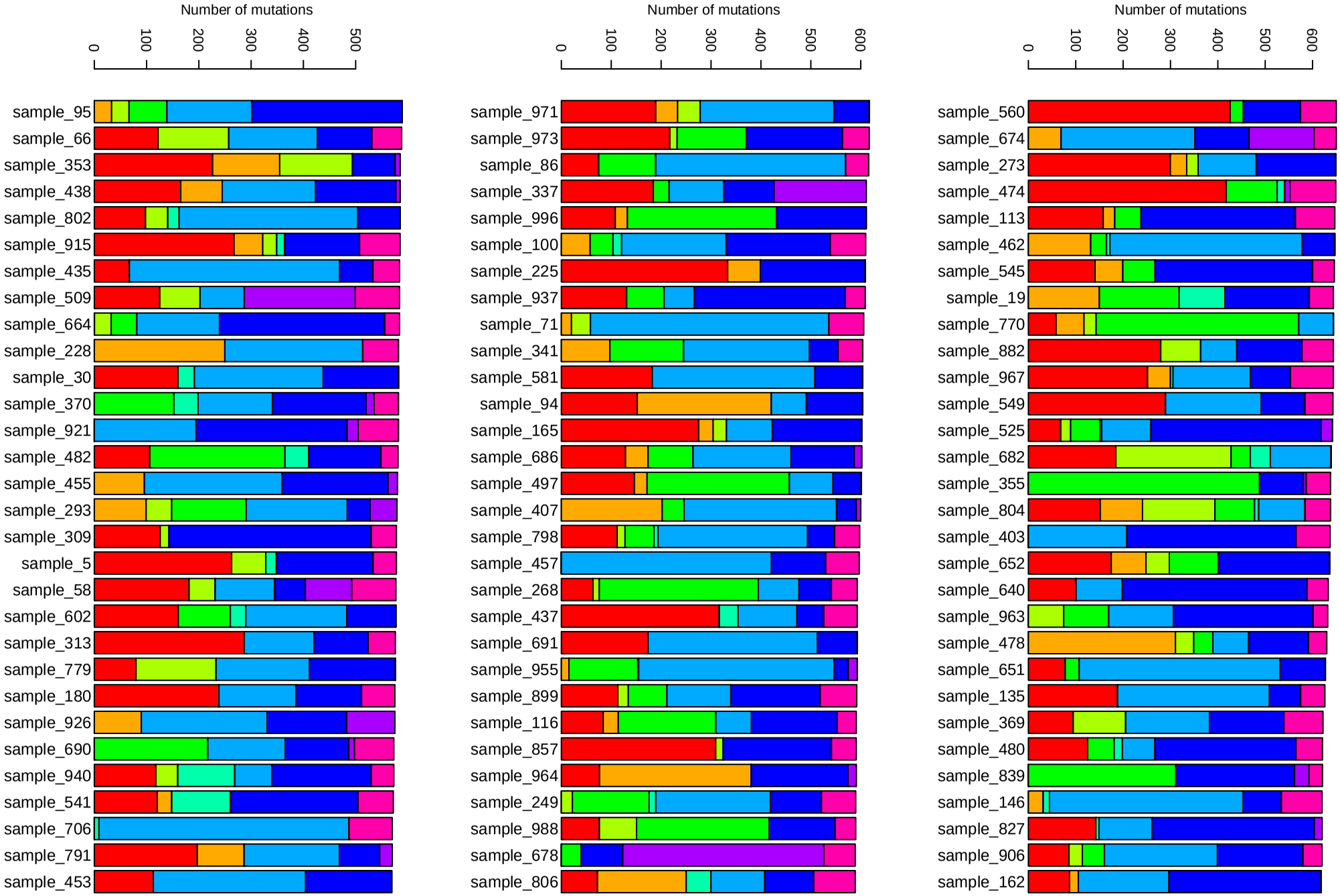

Number of mutations
0
200
400
600
800
1000
1200
sample_197
sample_4
sample_68
sample_531
sample_168
sample_588
sample_31
sample_592
sample_772
sample_837
sample_514
sample_528
sample_98
sample_721
sample_731
sample_245
sample_38
sample_465
sample_849
sample_511
sample_790
sample_312
sample_171
sample_591
sample_626
sample_239
sample_584
sample_376
sample_505
sample_532

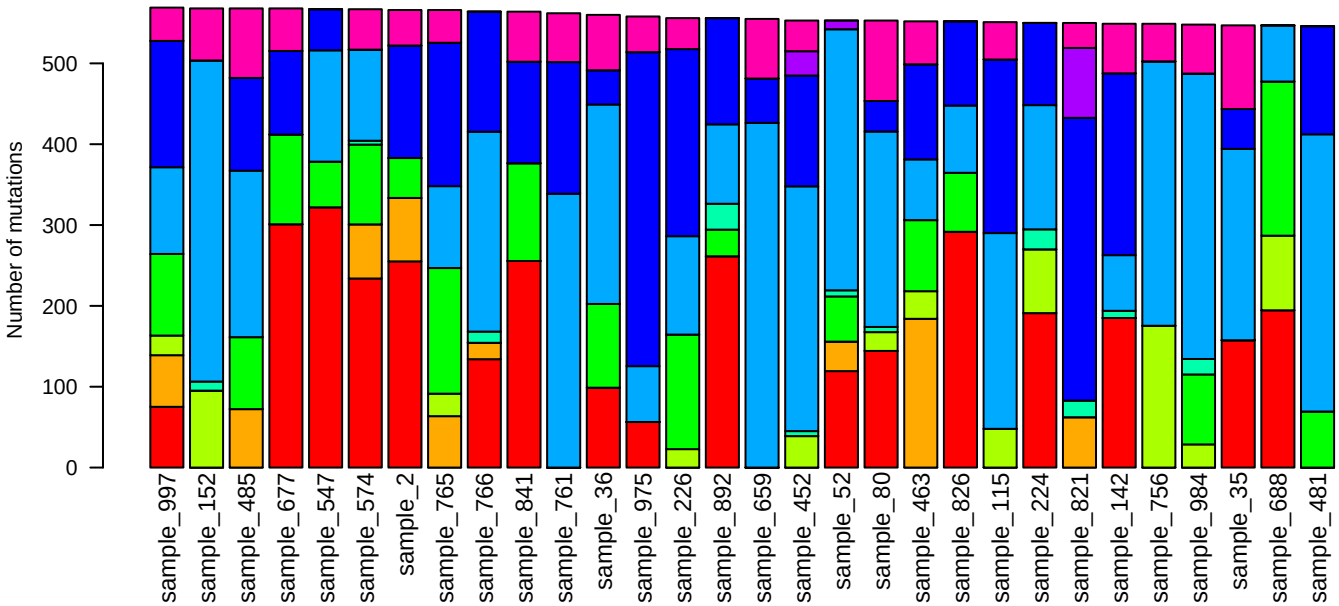

Number of mutations
0
200
400
600
800
1000
sample_582
sample_812
sample_26
sample_299
sample_461
sample_950
sample_788
sample_451
sample_732
sample_170
sample_864
sample_122
sample_675
sample_575
sample_232
sample_850
sample_399
sample_137
sample_391
sample_883
sample_642
sample_610
sample_193
sample_842
sample_817
sample_513
sample_805
sample_236
sample_687
sample_745

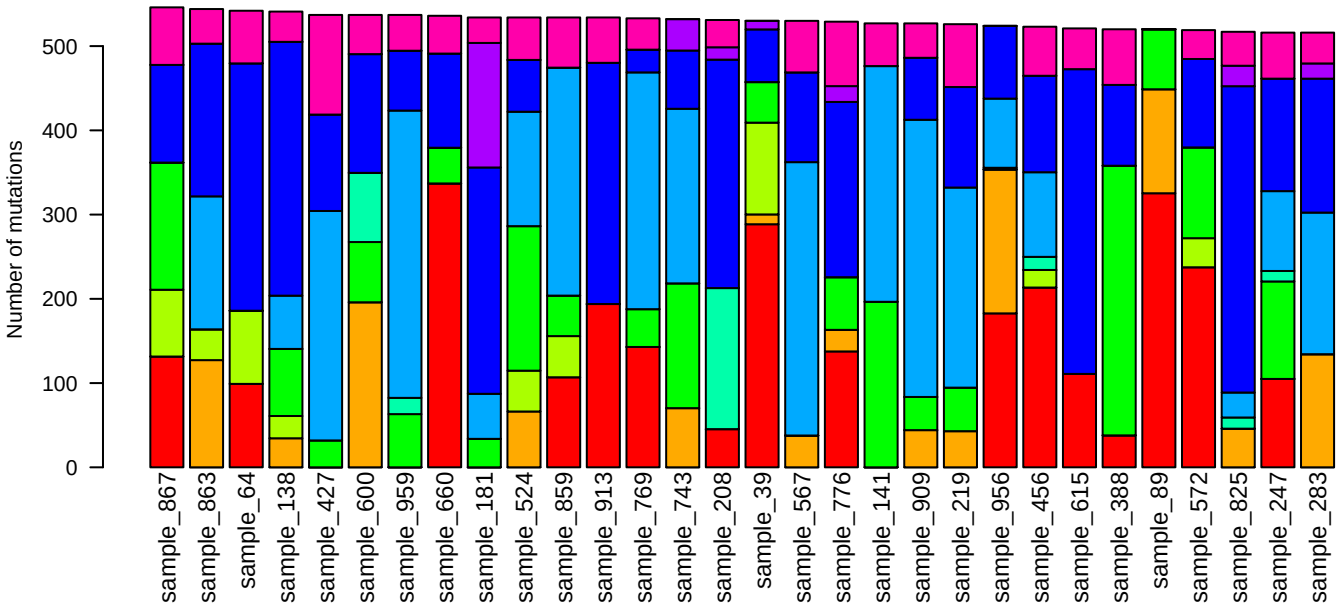

Number of mutations
0
200
400
600
800
sample_395
sample_202
sample_42
sample_110
sample_634
sample_302
sample_306
sample_351
sample_764
sample_166
sample_797
sample_81
sample_742
sample_891
sample_23
sample_718
sample_282
sample_529
sample_771
sample_426
sample_856
sample_889
sample_925
sample_616
sample_961
sample_823
sample_260
sample_695
sample_903
sample_846
Number of mutations
0
200
400
600
800
sample_329
sample_267
sample_557
sample_422
sample_410
sample_696
sample_84
sample_415
sample_72
sample_359
sample_808
sample_161
sample_29
sample_346
sample_623
sample_118
sample_787
sample_311
sample_14
sample_970
sample_498
sample_494
sample_358
sample_8
sample_272
sample_433
sample_517
sample_508
sample_103
sample_153
Number of mutations
0
200
400
600
800
1000
sample_701
sample_128
sample_519
sample_881
sample_978
sample_37
sample_681
sample_516
sample_241
sample_919
sample_378
sample_397
sample_611
sample_667
sample_108
sample_515
sample_503
sample_243
sample_176
sample_748
sample_102
sample_259
sample_254
sample_818
sample_679
sample_297
sample_832
sample_555
sample_217
sample_322

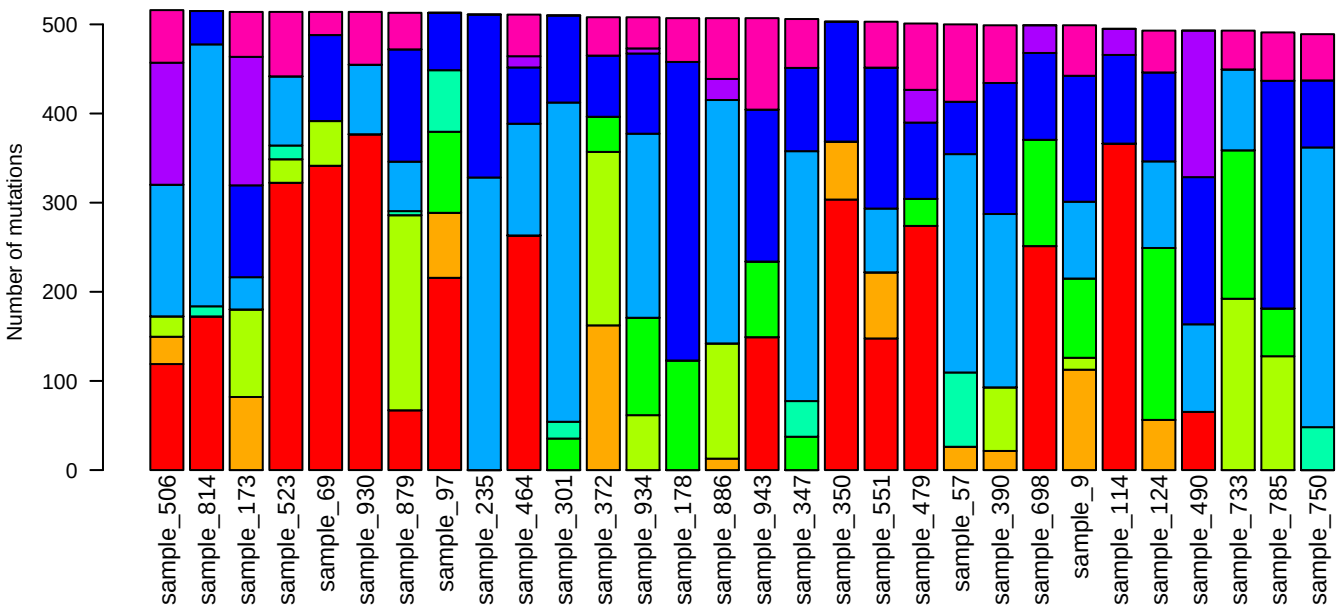

Number of mutations
0
200
400
600
800
sample_685
sample_384
sample_931
sample_637
sample_822
sample_492
sample_942
sample_723
sample_167
sample_143
sample_145
sample_425
sample_536
sample_829
sample_85
sample_562
sample_504
sample_624
sample_969
sample_897
sample_277
sample_62
sample_773
sample_598
sample_310
sample_348
sample_844
sample_87
sample_338
sample_888
sample_922
sample_697
sample_109
sample_298
sample_24
sample_869
sample_507
sample_577
sample_580
sample_558
sample_702
sample_121
sample_125
sample_861
sample_920
sample_703
sample_470
sample_466
sample_111
sample_229
sample_444
sample_655
sample_948
sample_445
sample_924
sample_221
sample_442
sample_303
sample_938
sample_631
sample_430
sample_130
sample_325
sample_7
sample_284
sample_865
sample_216
sample_196
sample_730
sample_878
sample_332
sample_327
sample_941
sample_700
sample_198
sample_669
sample_901
sample_593
sample_60
sample_543
sample_292
sample_10
sample_530
sample_518
sample_105
sample_40
sample_218
sample_755
sample_21
sample_860

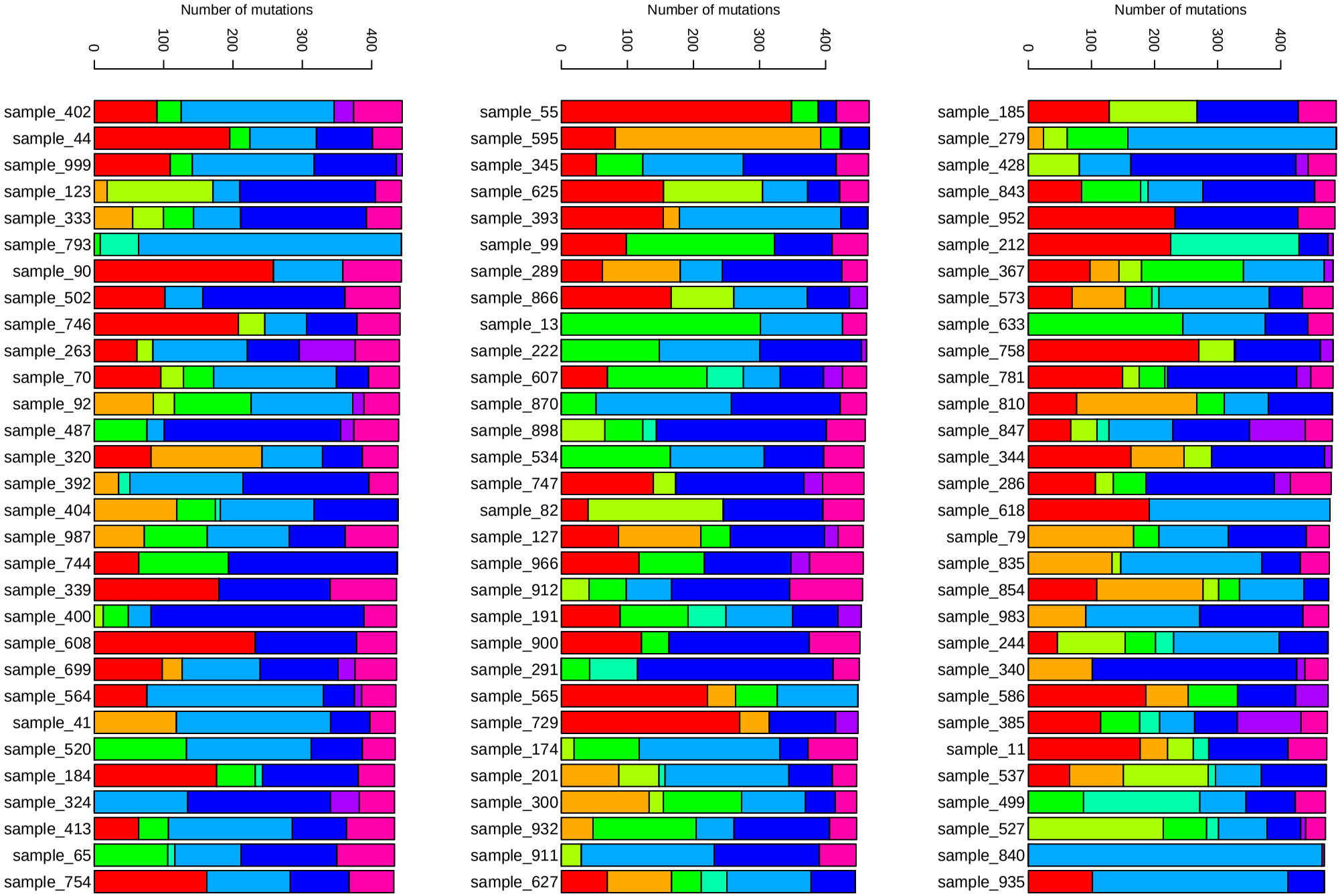

Number of mutations
0
100
200
300
400
500
600
sample_364
sample_873
sample_183
sample_379
sample_448
sample_927
sample_418
sample_548
sample_133
sample_654
sample_778
sample_811
sample_521
sample_587
sample_628
sample_957
sample_215
sample_49
sample_495
sample_676
sample_411
sample_739
sample_945
sample_319
sample_918
sample_209
sample_207
sample_794
sample_270
sample_281
Number of mutations
0
100
200
300
400
500
600
700
sample_154
sample_255
sample_349
sample_112
sample_780
sample_164
sample_383
sample_693
sample_953
sample_409
sample_774
sample_715
sample_129
sample_261
sample_491
sample_73
sample_375
sample_980
sample_12
sample_250
sample_443
sample_354
sample_590
sample_716
sample_767
sample_782
sample_473
sample_74
sample_801
sample_117
Number of mutations
0
100
200
300
400
500
600
700
sample_740
sample_916
sample_401
sample_803
sample_371
sample_213
sample_424
sample_475
sample_711
sample_159
sample_360
sample_741
sample_305
sample_694
sample_405
sample_472
sample_561
sample_946
sample_134
sample_751
sample_671
sample_819
sample_982
sample_83
sample_67
sample_389
sample_689
sample_753
sample_144
sample_800

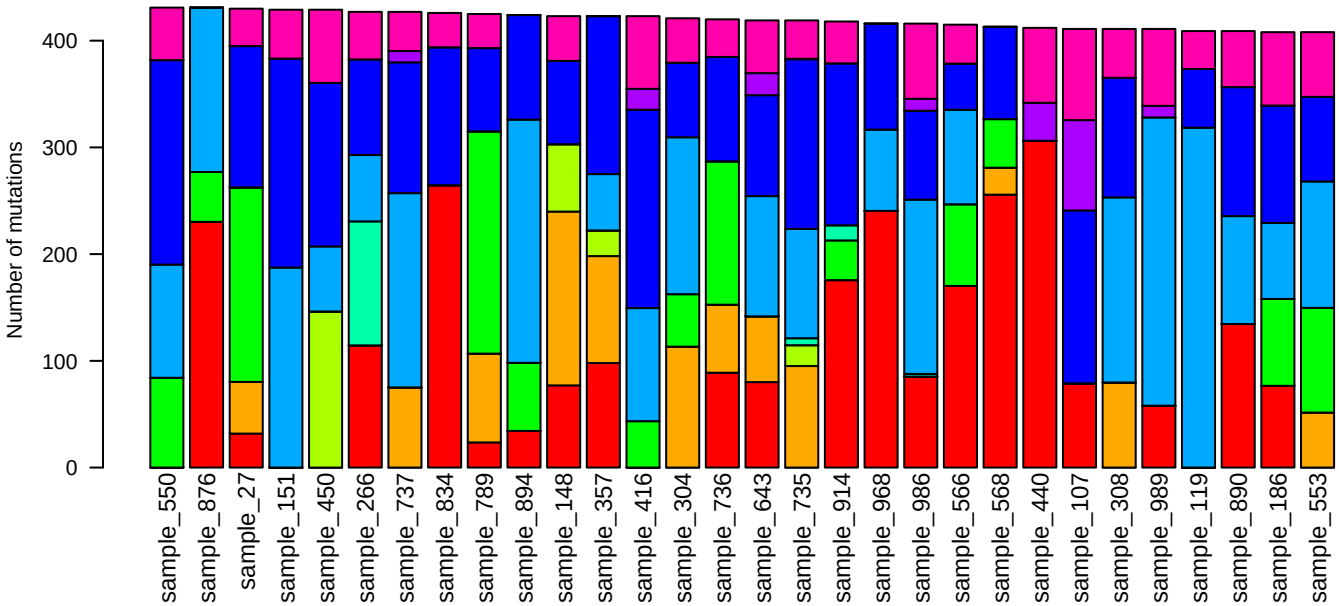

Number of mutations
0
100
200
300
400
500
sample_95
sample_66
sample_353
sample_438
sample_802
sample_915
sample_435
sample_509
sample_664
sample_228
sample_30
sample_370
sample_921
sample_482
sample_455
sample_293
sample_309
sample_5
sample_58
sample_602
sample_313
sample_779
sample_180
sample_926
sample_690
sample_940
sample_541
sample_706
sample_791
sample_453
Number of mutations
0
100
200
300
400
500
600
sample_971
sample_973
sample_86
sample_337
sample_996
sample_100
sample_225
sample_937
sample_71
sample_341
sample_581
sample_94
sample_165
sample_686
sample_497
sample_407
sample_798
sample_457
sample_268
sample_437
sample_691
sample_955
sample_899
sample_116
sample_857
sample_964
sample_249
sample_988
sample_678
sample_806
Number of mutations
0
100
200
300
400
500
600
sample_560
sample_674
sample_273
sample_474
sample_113
sample_462
sample_545
sample_19
sample_770
sample_882
sample_967
sample_549
sample_525
sample_682
sample_355
sample_804
sample_403
sample_652
sample_640
sample_963
sample_478
sample_651
sample_135
sample_369
sample_480
sample_839
sample_146
sample_827
sample_906
sample_162

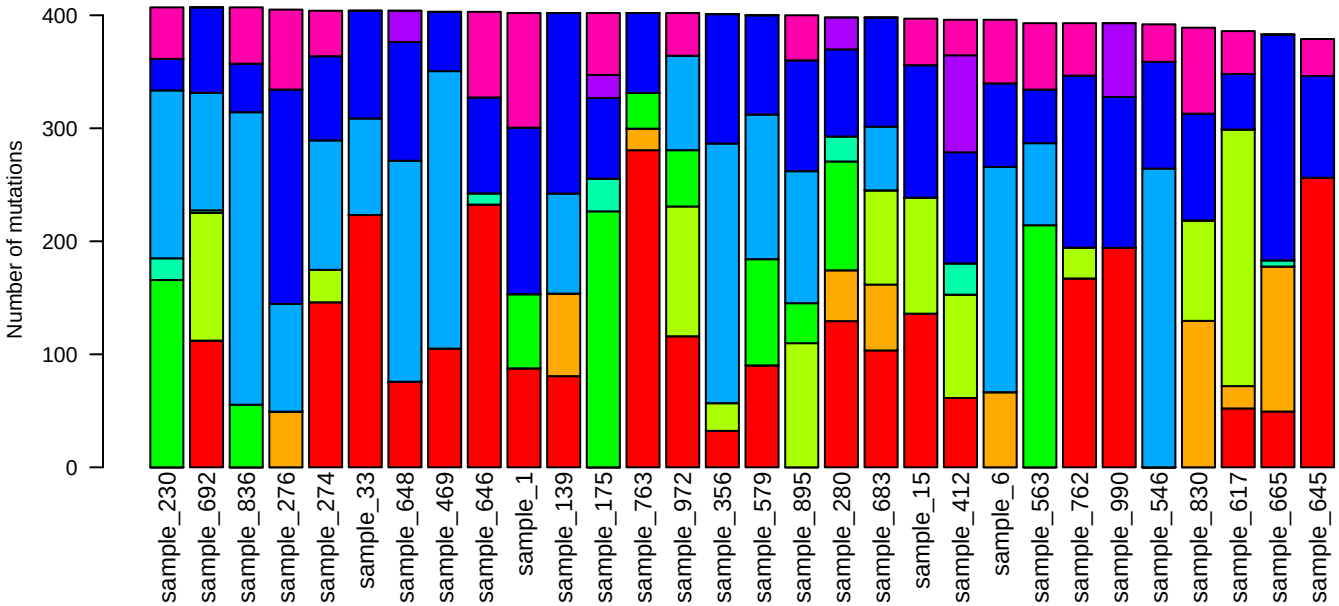

Number of mutations
0
100
200
300
400
500
sample_997
sample_152
sample_485
sample_677
sample_547
sample_574
sample_2
sample_765
sample_766
sample_841
sample_761
sample_36
sample_975
sample_226
sample_892
sample_659
sample_452
sample_52
sample_80
sample_463
sample_826
sample_115
sample_224
sample_821
sample_142
sample_756
sample_984
sample_35
sample_688
sample_481

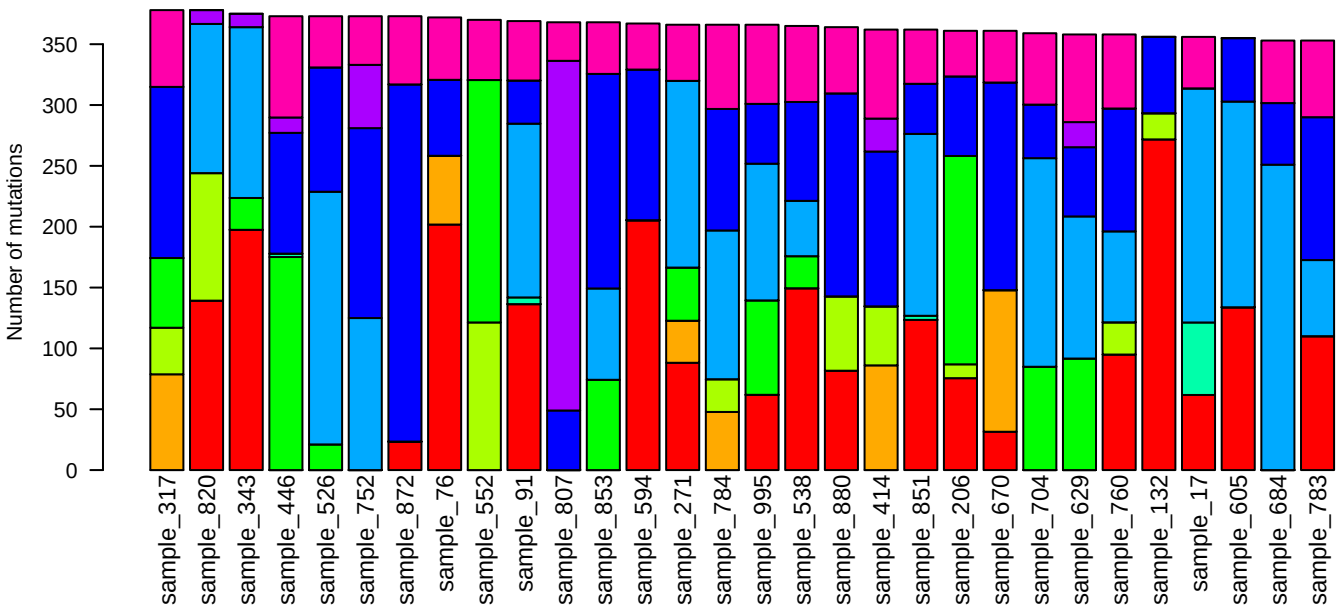

Number of mutations
0
100
200
300
400
500
sample_867
sample_863
sample_64
sample_138
sample_427
sample_600
sample_959
sample_660
sample_181
sample_524
sample_859
sample_913
sample_769
sample_743
sample_208
sample_39
sample_567
sample_776
sample_141
sample_909
sample_219
sample_956
sample_456
sample_615
sample_388
sample_89
sample_572
sample_825
sample_247
sample_283

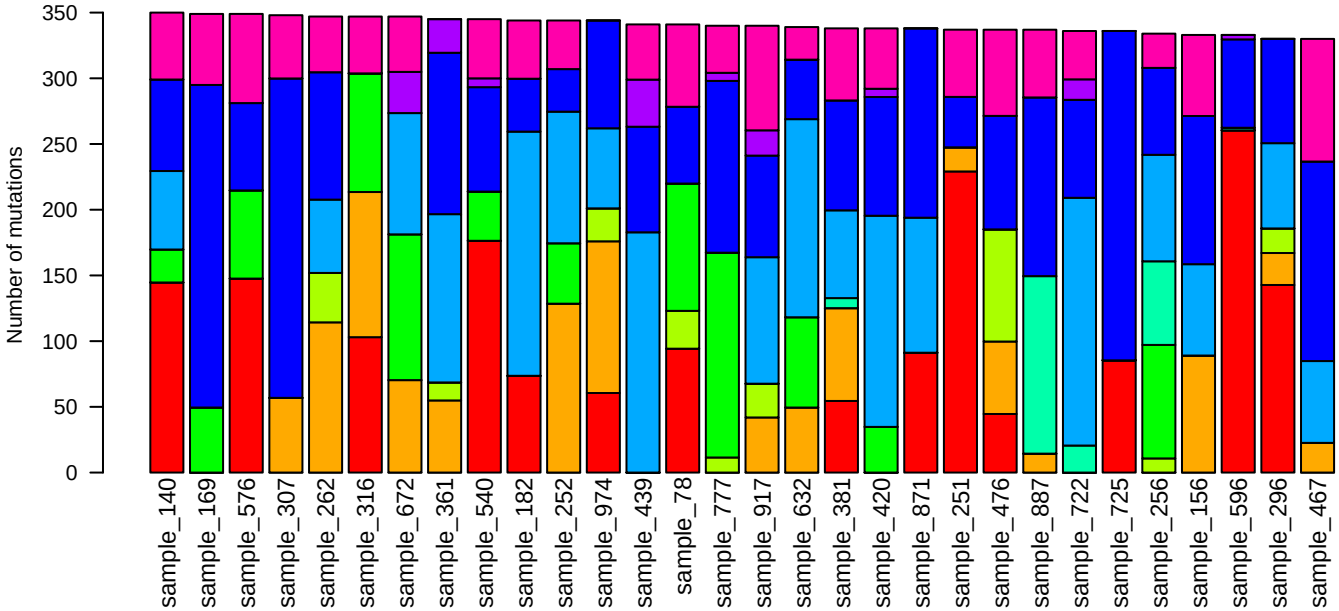

Number of mutations
0
100
200
300
400
500
sample_506
sample_814
sample_173
sample_523
sample_69
sample_930
sample_879
sample_97
sample_235
sample_464
sample_301
sample_372
sample_934
sample_178
sample_886
sample_943
sample_347
sample_350
sample_551
sample_479
sample_57
sample_390
sample_698
sample_9
sample_114
sample_124
sample_490
sample_733
sample_785
sample_750

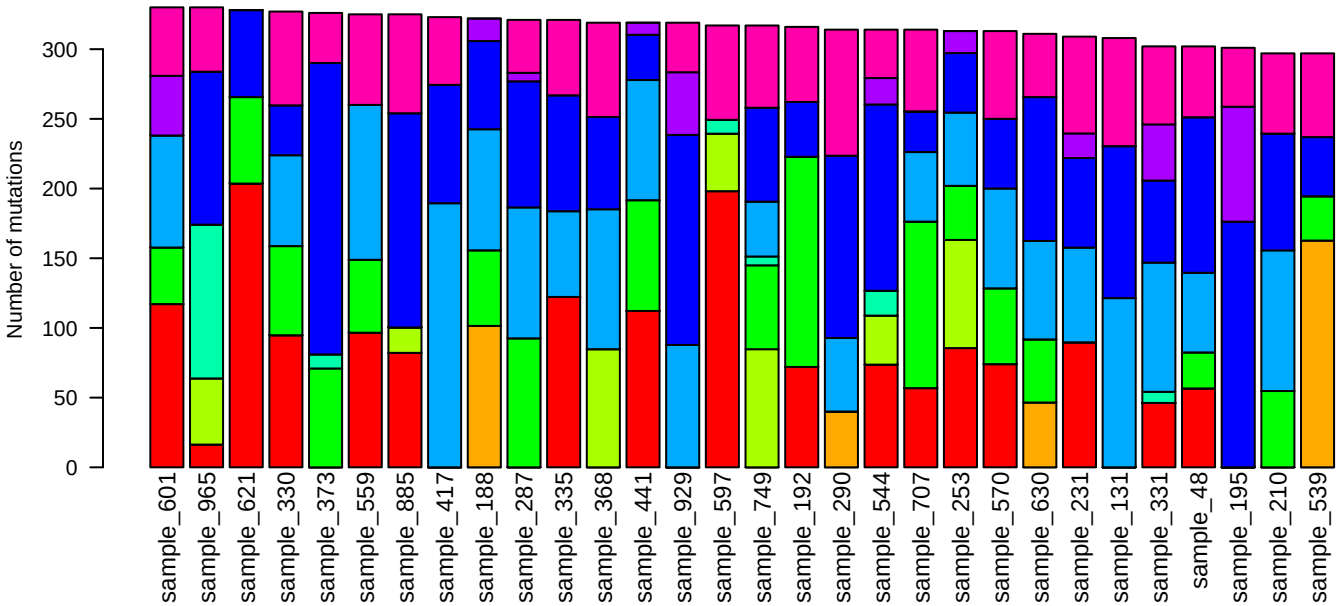

Number of mutations
0
100
200
300
400
sample_402
sample_44
sample_999
sample_123
sample_333
sample_793
sample_90
sample_502
sample_746
sample_263
sample_70
sample_92
sample_487
sample_320
sample_392
sample_404
sample_987
sample_744
sample_339
sample_400
sample_608
sample_699
sample_564
sample_41
sample_520
sample_184
sample_324
sample_413
sample_65
sample_754
Number of mutations
0
100
200
300
400
sample_55
sample_595
sample_345
sample_625
sample_393
sample_99
sample_289
sample_866
sample_13
sample_222
sample_607
sample_870
sample_898
sample_534
sample_747
sample_82
sample_127
sample_966
sample_912
sample_191
sample_900
sample_291
sample_565
sample_729
sample_174
sample_201
sample_300
sample_932
sample_911
sample_627
Number of mutations
0
100
200
300
400
sample_185
sample_279
sample_428
sample_843
sample_952
sample_212
sample_367
sample_573
sample_633
sample_758
sample_781
sample_810
sample_847
sample_344
sample_286
sample_618
sample_79
sample_835
sample_854
sample_983
sample_244
sample_340
sample_586
sample_385
sample_11
sample_537
sample_499
sample_527
sample_840
sample_935

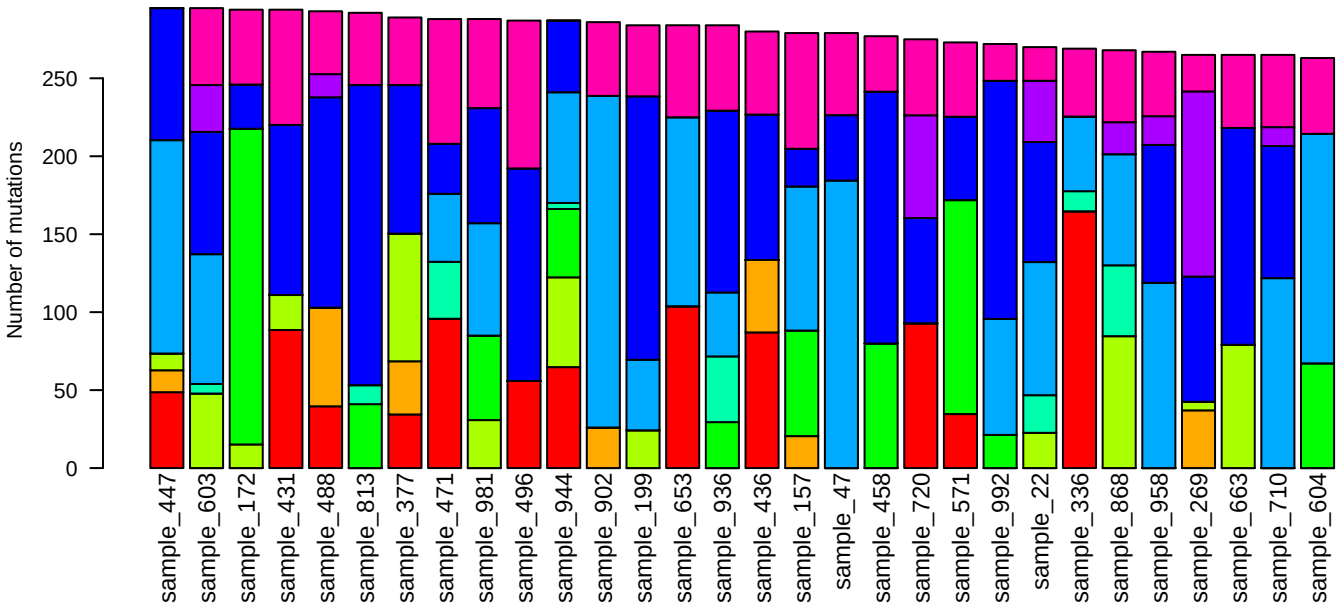

Number of mutations
0
100
200
300
400
sample_550
sample_876
sample_27
sample_151
sample_450
sample_266
sample_737
sample_834
sample_789
sample_894
sample_148
sample_357
sample_416
sample_304
sample_736
sample_643
sample_735
sample_914
sample_968
sample_986
sample_566
sample_568
sample_440
sample_107
sample_308
sample_989
sample_119
sample_890
sample_186
sample_553

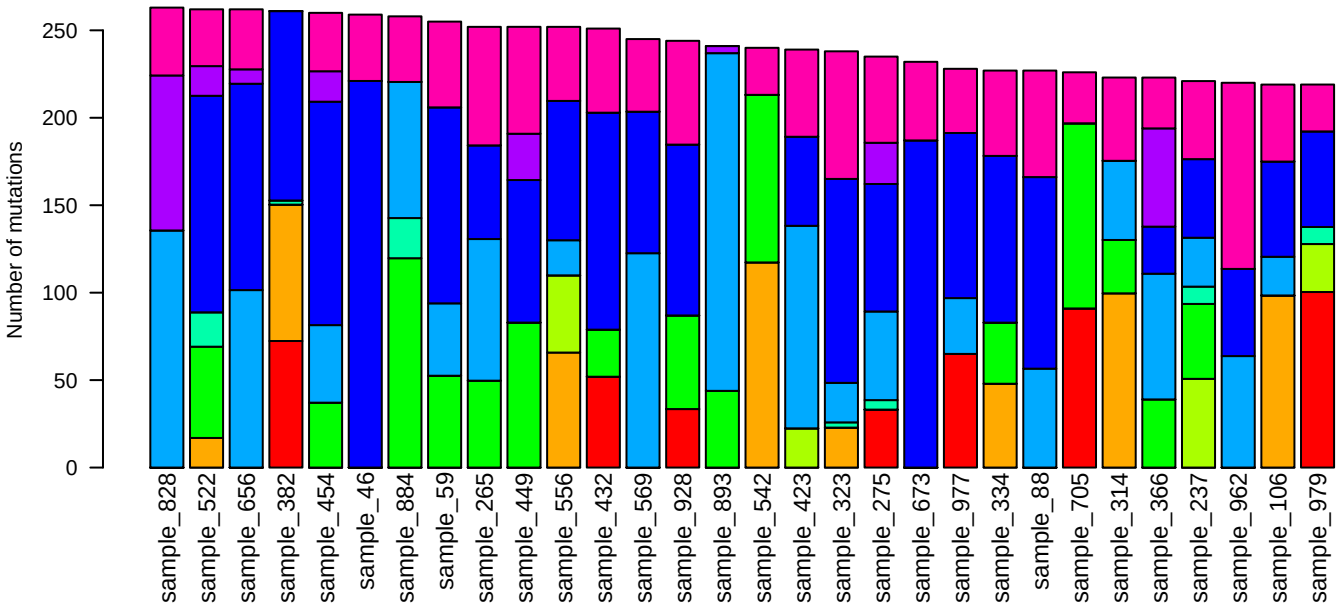

Number of mutations
0
100
200
300
400
sample_230
sample_692
sample_836
sample_276
sample_274
sample_33
sample_648
sample_469
sample_646
sample_1
sample_139
sample_175
sample_763
sample_972
sample_356
sample_579
sample_895
sample_280
sample_683
sample_15
sample_412
sample_6
sample_563
sample_762
sample_990
sample_546
sample_830
sample_617
sample_665
sample_645

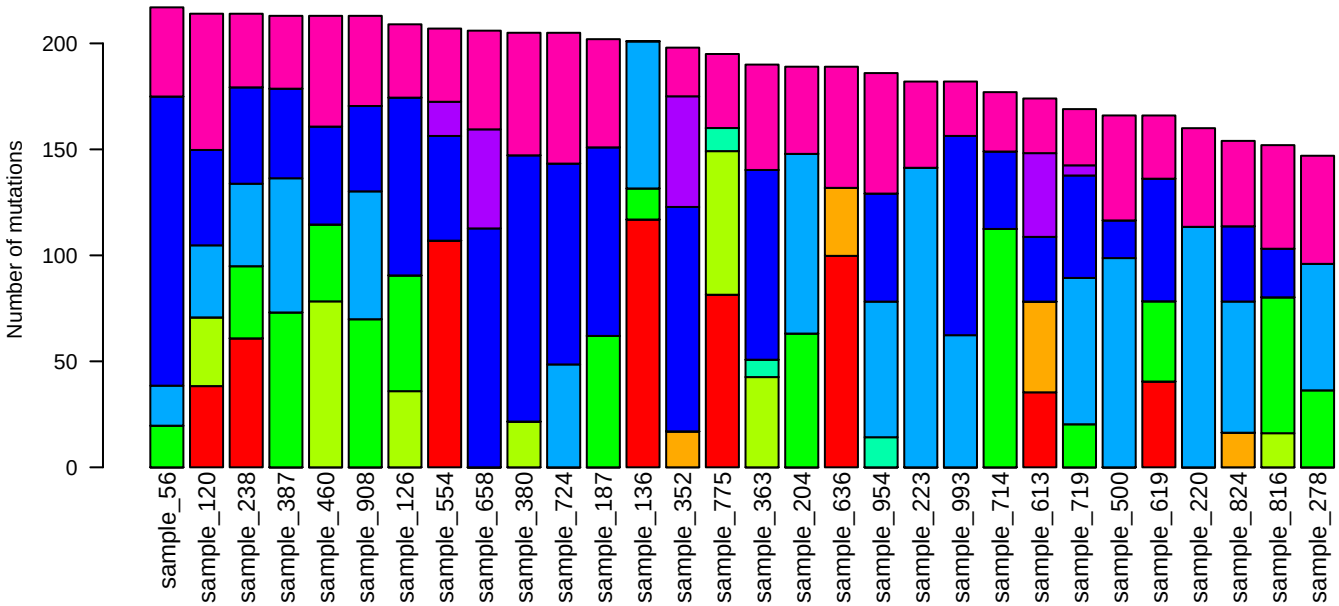

Number of mutations
0
50
100
150
200
250
300
350
sample_317
sample_820
sample_343
sample_446
sample_526
sample_752
sample_872
sample_76
sample_552
sample_91
sample_807
sample_853
sample_594
sample_271
sample_784
sample_995
sample_538
sample_880
sample_414
sample_851
sample_206
sample_670
sample_704
sample_629
sample_760
sample_132
sample_17
sample_605
sample_684
sample_783

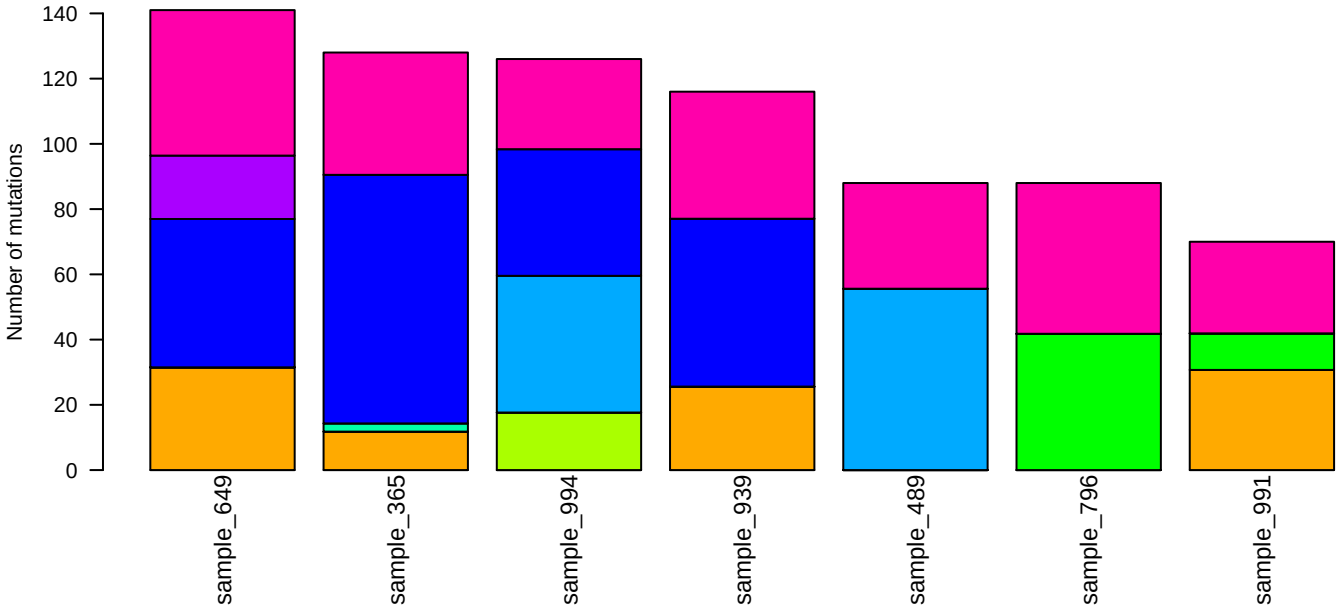

Number of mutations
0
50
100
150
200
250
300
350
sample_140
sample_169
sample_576
sample_307
sample_262
sample_316
sample_672
sample_361
sample_540
sample_182
sample_252
sample_974
sample_439
sample_78
sample_777
sample_917
sample_632
sample_381
sample_420
sample_871
sample_251
sample_476
sample_887
sample_722
sample_725
sample_256
sample_156
sample_596
sample_296
sample_467


Number of mutations
0
50
100
150
200
250
300
sample_601
sample_965
sample_621
sample_330
sample_373
sample_559
sample_885
sample_417
sample_188
sample_287
sample_335
sample_368
sample_441
sample_929
sample_597
sample_749
sample_192
sample_290
sample_544
sample_707
sample_253
sample_570
sample_630
sample_231
sample_131
sample_331
sample_48
sample_195
sample_210
sample_539


Number of mutations
0
50
100
150
200
250
sample_447
sample_603
sample_172
sample_431
sample_488
sample_813
sample_377
sample_471
sample_981
sample_496
sample_944
sample_902
sample_199
sample_653
sample_936
sample_436
sample_157
sample_47
sample_458
sample_720
sample_571
sample_992
sample_22
sample_336
sample_868
sample_958
sample_269
sample_663
sample_710
sample_604


Number of mutations
0
50
100
150
200
250
sample_828
sample_522
sample_656
sample_382
sample_454
sample_46
sample_884
sample_59
sample_265
sample_449
sample_556
sample_432
sample_569
sample_928
sample_893
sample_542
sample_423
sample_323
sample_275
sample_673
sample_977
sample_334
sample_88
sample_705
sample_314
sample_366
sample_237
sample_962
sample_106
sample_979


Number of mutations
0
50
100
150
200
sample_56
sample_120
sample_238
sample_387
sample_460
sample_908
sample_126
sample_554
sample_658
sample_380
sample_724
sample_187
sample_136
sample_352
sample_775
sample_363
sample_204
sample_636
sample_954
sample_223
sample_993
sample_714
sample_613
sample_719
sample_500
sample_619
sample_220
sample_824
sample_816
sample_278


Number of mutations
0
20
40
60
80
100
120
140
sample_649
sample_365
sample_994
sample_939
sample_489
sample_796
sample_991