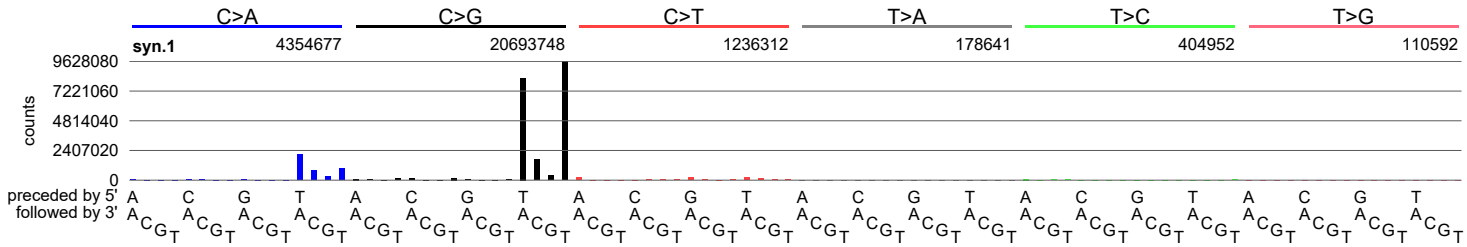
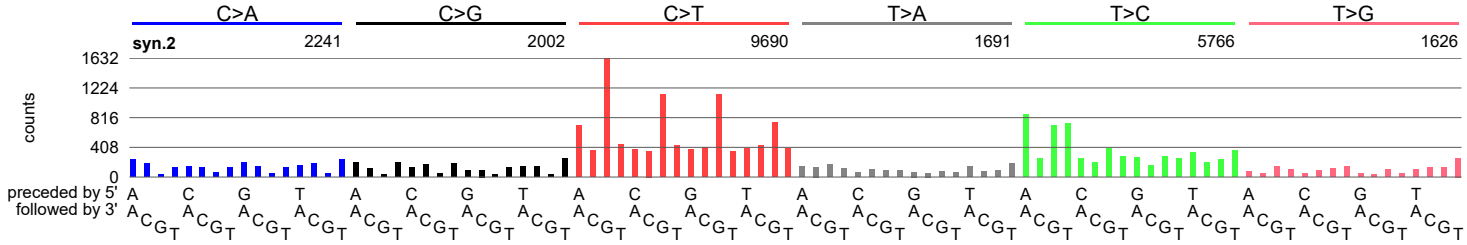
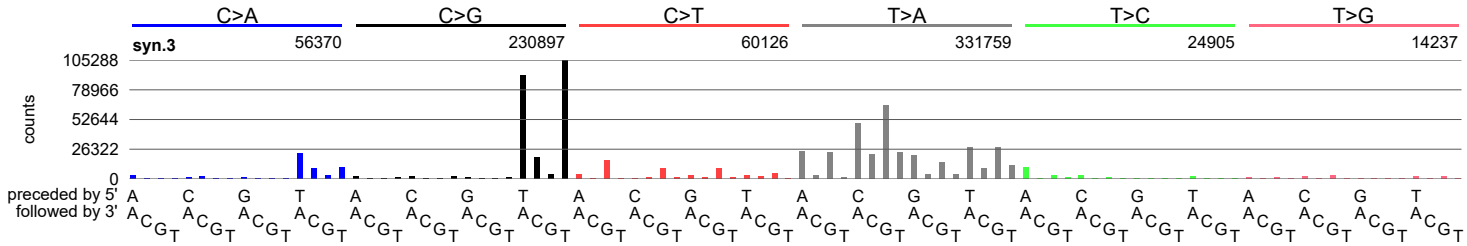
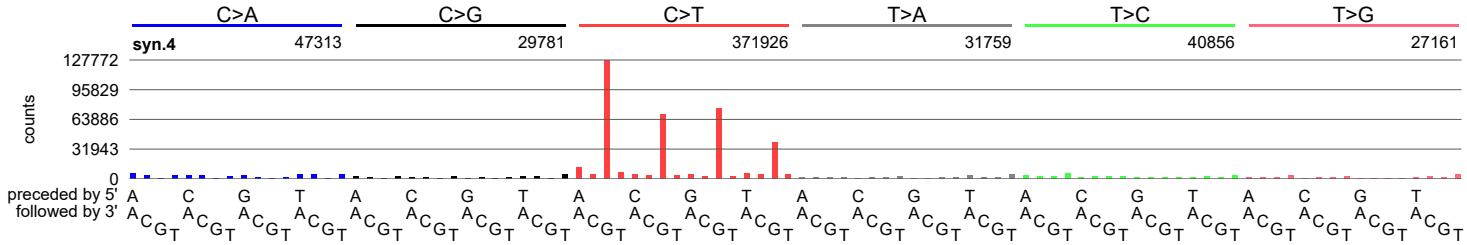
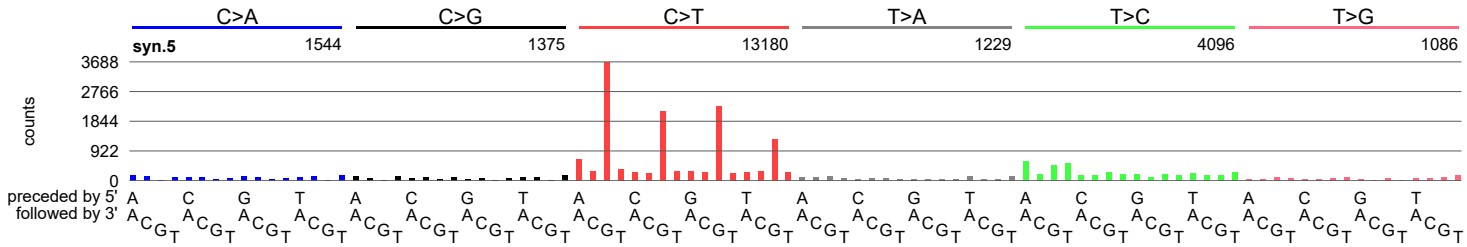
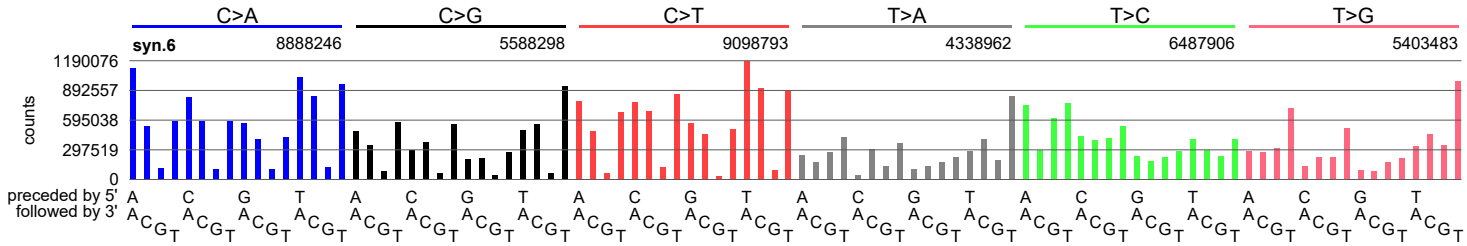

C>A
C>G
C>T
T>A
T>C
T>G
syn.1
4354677
20693748
1236312
178641
404952
110592
9628080
7221060
4814040
2407020
0
counts
preceded by 5'
followed by 3'

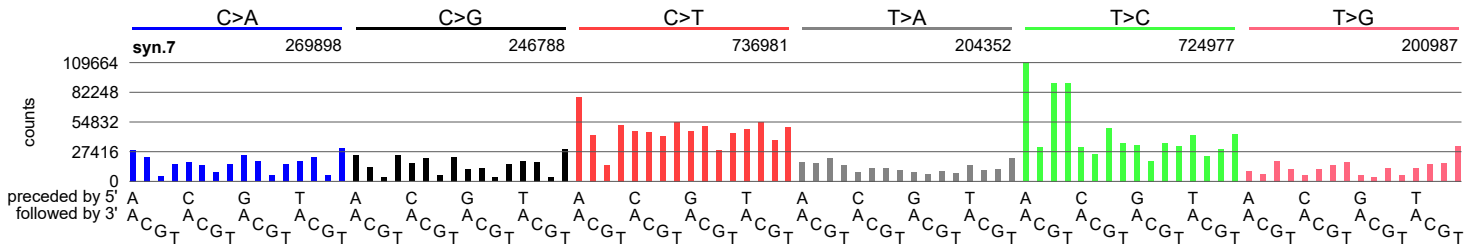

C>A
C>G
C>T
T>A
T>C
T>G
syn.2
2241
2002
9690
1691
5766
1626
1632
1224
816
408
0
counts
preceded by 5'
followed by 3'

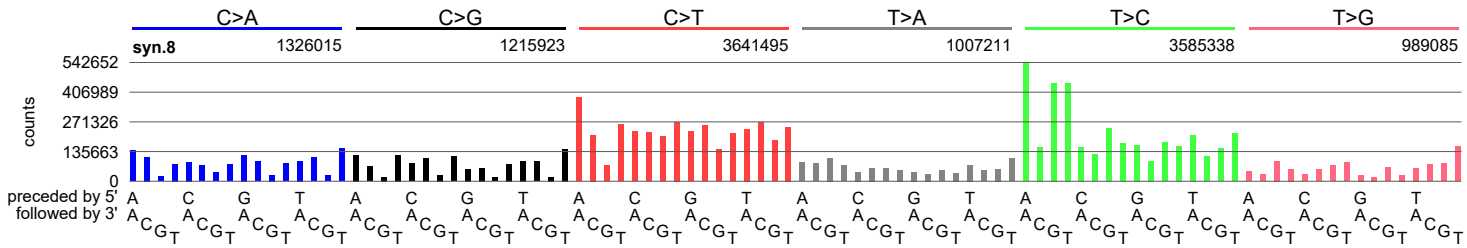

C>A
C>G
C>T
T>A
T>C
T>G
syn.3
56370
230897
60126
331759
24905
14237
105288
78966
52644
26322
0
counts
preceded by 5'
followed by 3'

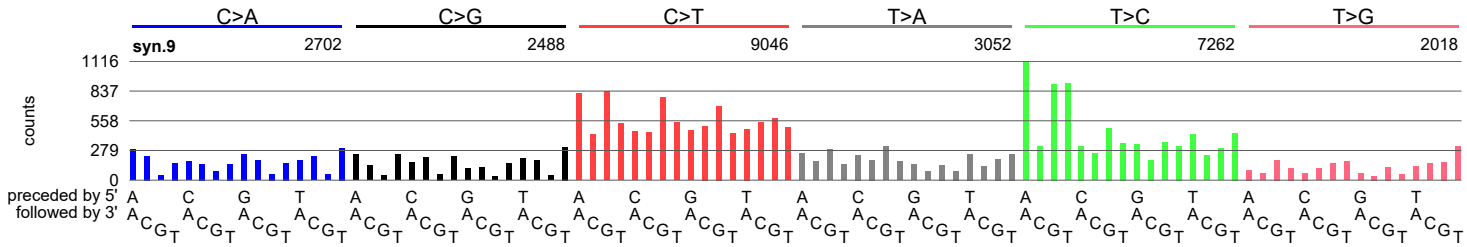

C>A
C>G
C>T
T>A
T>C
T>G
syn.4
47313
29781
371926
31759
40856
27161
127772
95829
63886
31943
0
counts
preceded by 5'
followed by 3'

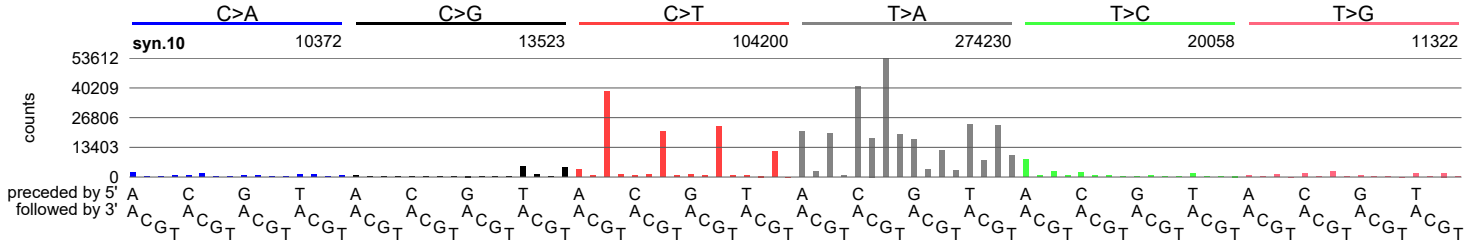

C>A
C>G
C>T
T>A
T>C
T>G
syn.5
1544
1375
13180
1229
4096
1086
3688
2766
1844
922
0
counts
preceded by 5'
followed by 3'

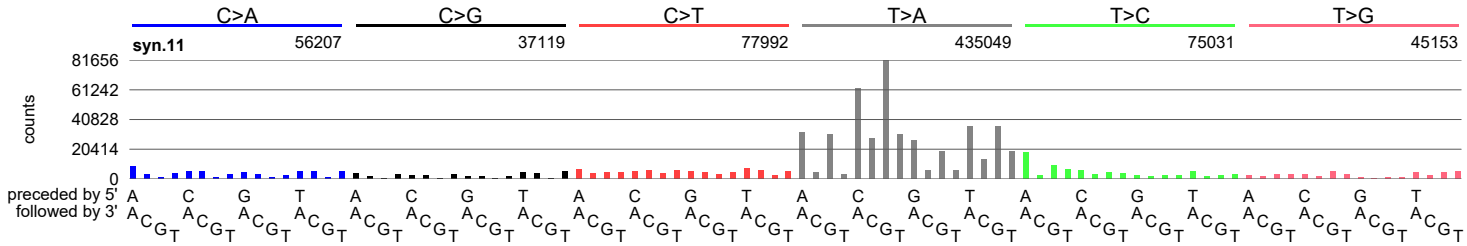

C>A
C>G
C>T
T>A
T>C
T>G
syn.6
8888246
5588298
9098793
4338962
6487906
5403483
1190076
892557
595038
297519
0
counts
preceded by 5'
followed by 3'

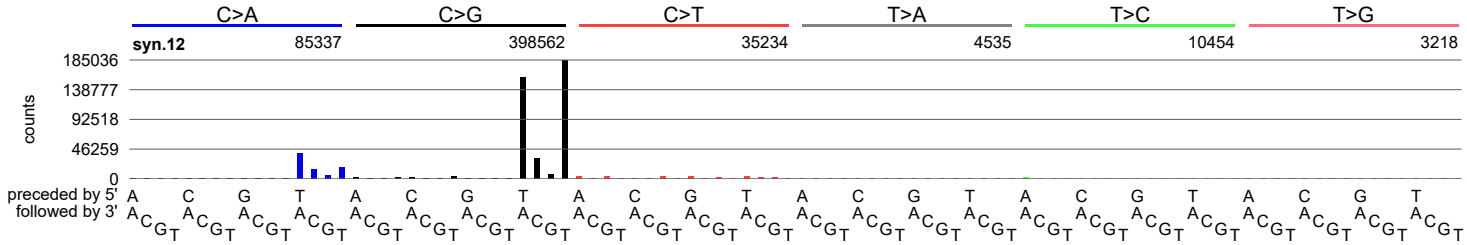

C>A
C>G
C>T
T>A
T>C
T>G
syn.7
269898
246788
736981
204352
724977
200987
109664
82248
54832
27416
0
counts
preceded by 5'
followed by 3'

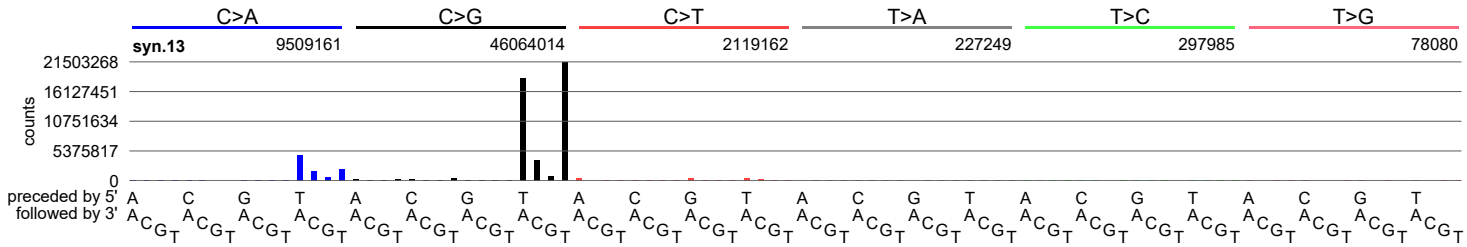

C>A
C>G
C>T
T>A
T>C
T>G
syn.8
1326015
1215923
3641495
1007211
3585338
989085
542652
406989
271326
135663
0
counts
preceded by 5'
followed by 3'

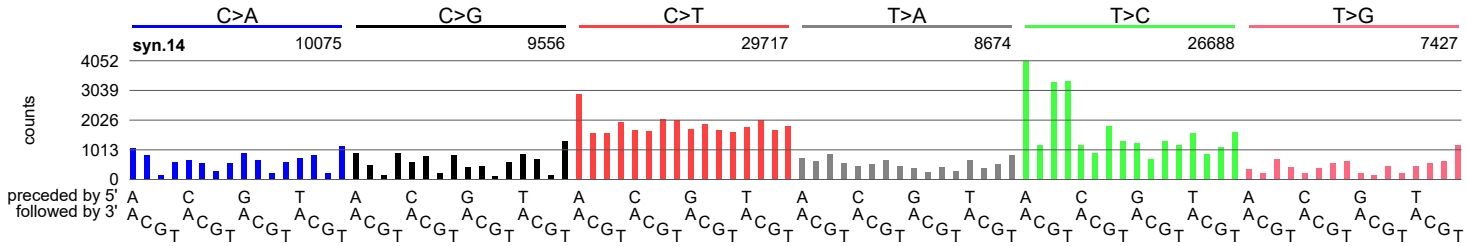

C>A
C>G
C>T
T>A
T>C
T>G
syn.9
2702
2488
9046
3052
7262
2018
counts
1116
837
558
279
0
preceded by 5'
followed by 3'

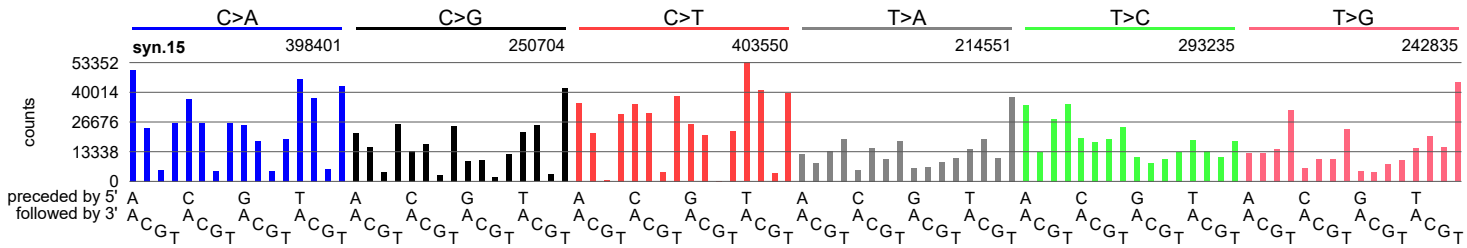

C>A
C>G
C>T
T>A
T>C
T>G
syn.10
10372
13523
104200
274230
20058
11322
counts
53612
40209
26806
13403
0
preceded by 5'
followed by 3'

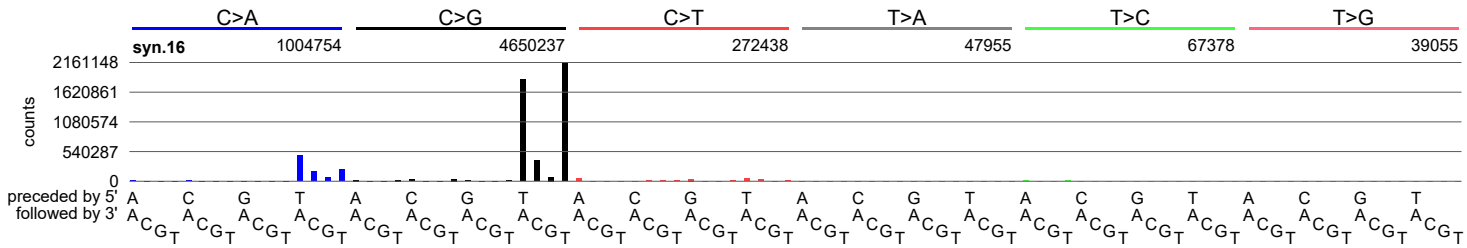

C>A
C>G
C>T
T>A
T>C
T>G
syn.11
56207
37119
77992
435049
75031
45153
counts
81656
61242
40828
20414
0
preceded by 5'
followed by 3'

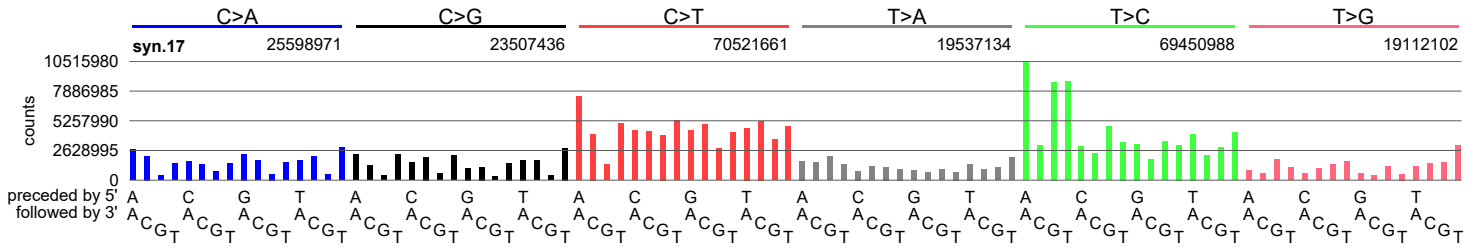

C>A
C>G
C>T
T>A
T>C
T>G
syn.12
85337
398562
35234
4535
10454
3218
counts
185036
138777
92518
46259
0
preceded by 5'
followed by 3'

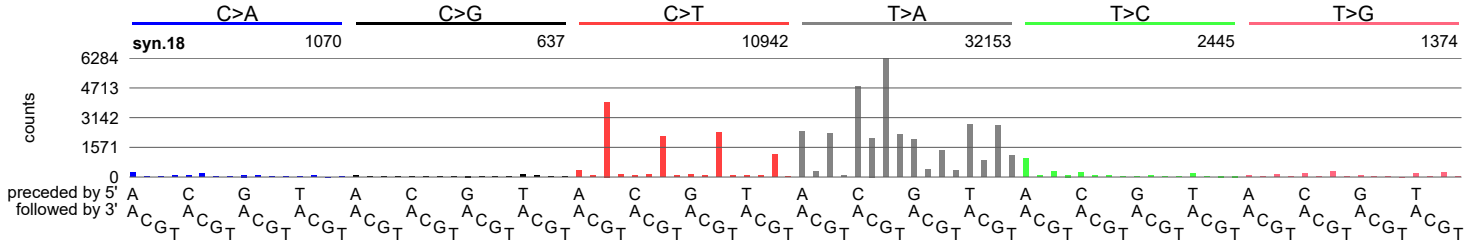

C>A
C>G
C>T
T>A
T>C
T>G
syn.13
9509161
46064014
2119162
227249
297985
78080
counts
21503268
16127451
10751634
5375817
0
preceded by 5'
followed by 3'

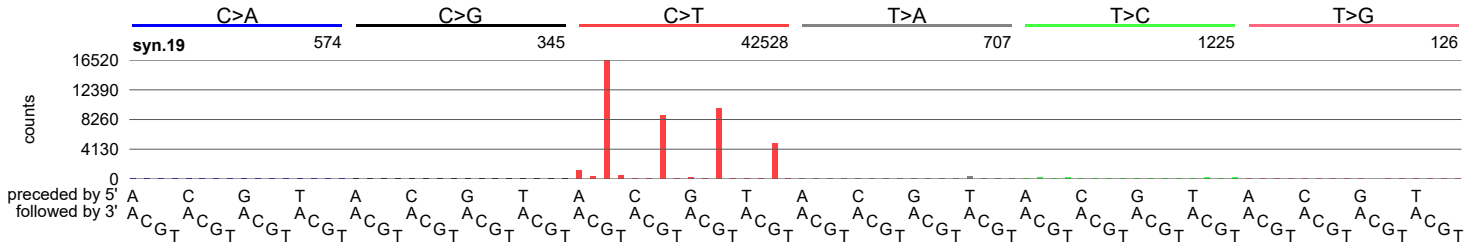

C>A
C>G
C>T
T>A
T>C
T>G
syn.14
10075
9556
29717
8674
26688
7427
counts
4052
3039
2026
1013
0
preceded by 5'
followed by 3'

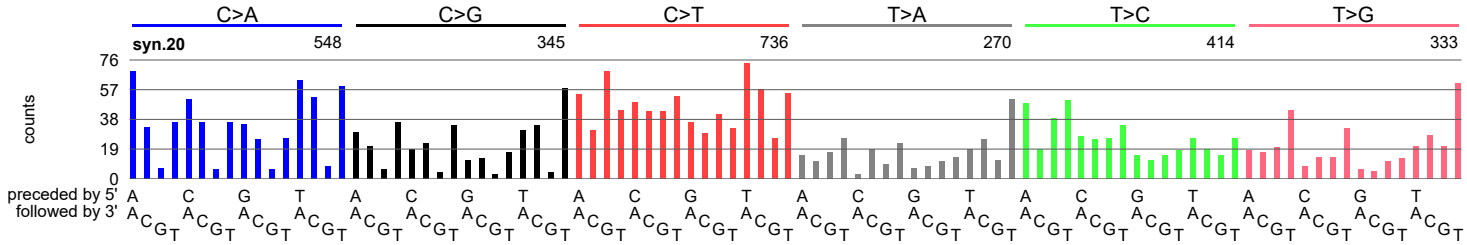

C>A
C>G
C>T
T>A
T>C
T>G
syn.15
398401
250704
403550
214551
293235
242835
counts
53352
40014
26676
13338
0
preceded by 5'
followed by 3'

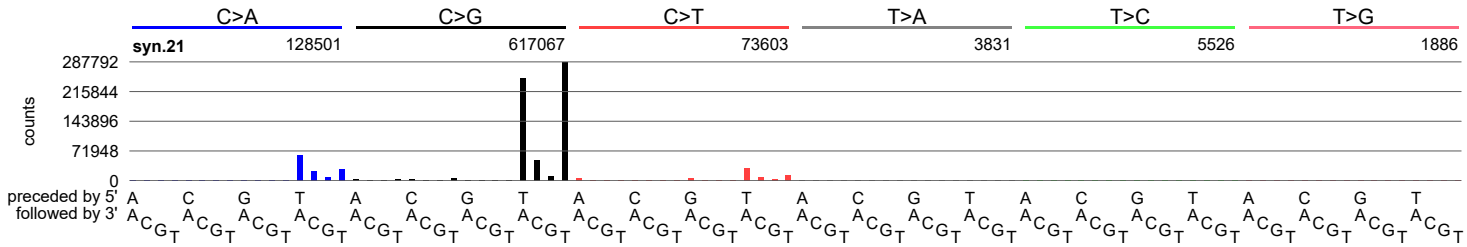

C>A
C>G
C>T
T>A
T>C
T>G
syn.16
1004754
4650237
272438
47955
67378
39055
counts
2161148
1620861
1080574
540287
0
preceded by 5'
followed by 3'

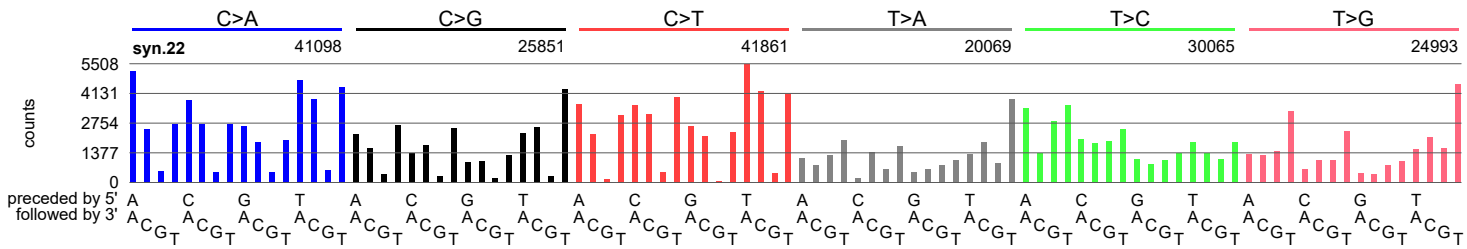

C>A
C>G
C>T
T>A
T>C
T>G
syn.17
25598971
23507436
70521661
19537134
69450988
19112102
10515980
7886985
5257990
2628995
0
counts
preceded by 5'
followed by 3'

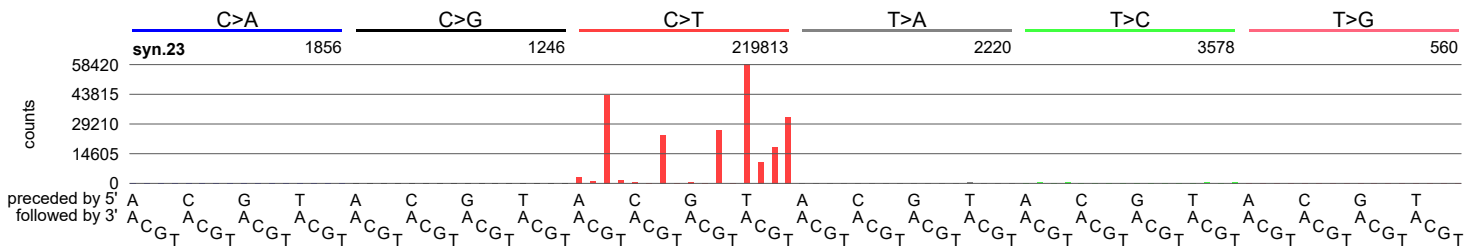

C>A
C>G
C>T
T>A
T>C
T>G
syn.18
1070
637
10942
32153
2445
1374
6284
4713
3142
1571
0
counts
preceded by 5'
followed by 3'

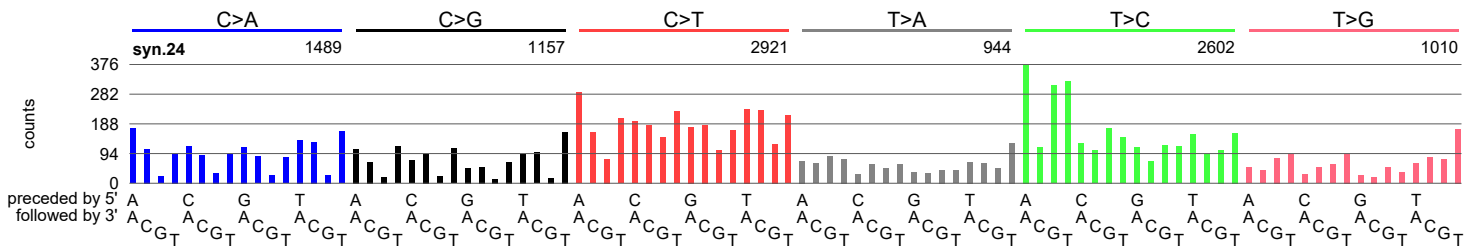

C>A
C>G
C>T
T>A
T>C
T>G
syn.19
574
345
42528
707
1225
126
16520
12390
8260
4130
0
counts
preceded by 5'
followed by 3'

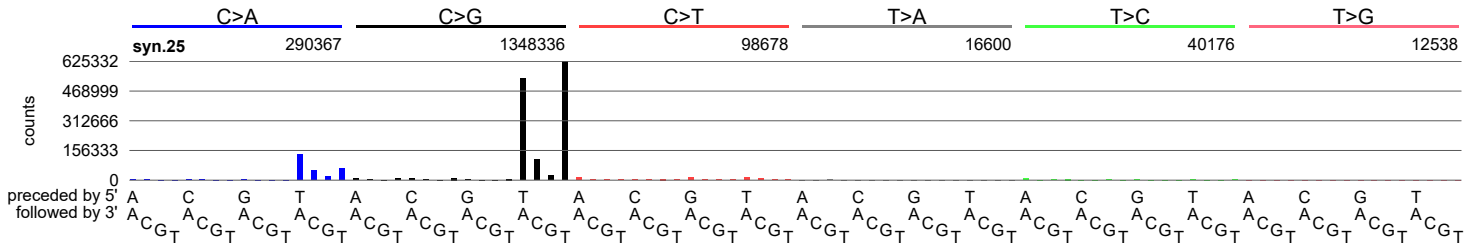

C>A
C>G
C>T
T>A
T>C
T>G
syn.20
548
345
736
270
414
333
76
57
38
19
0
counts
preceded by 5'
followed by 3'

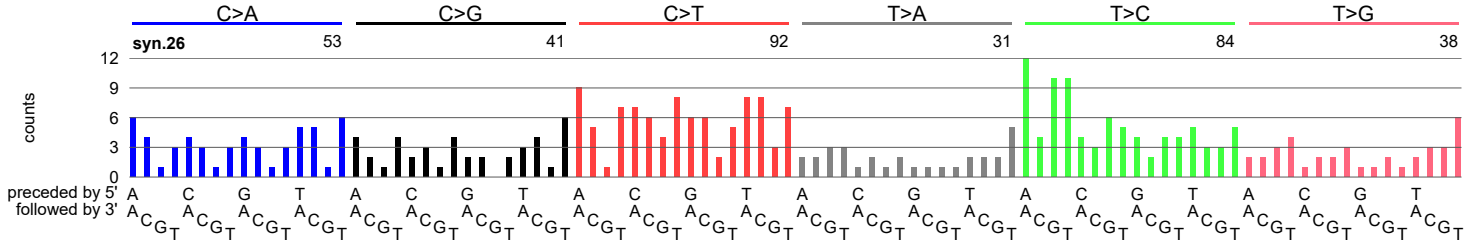

C>A
C>G
C>T
T>A
T>C
T>G
syn.21
128501
617067
73603
3831
5526
1886
287792
215844
143896
71948
0
counts
preceded by 5'
followed by 3'

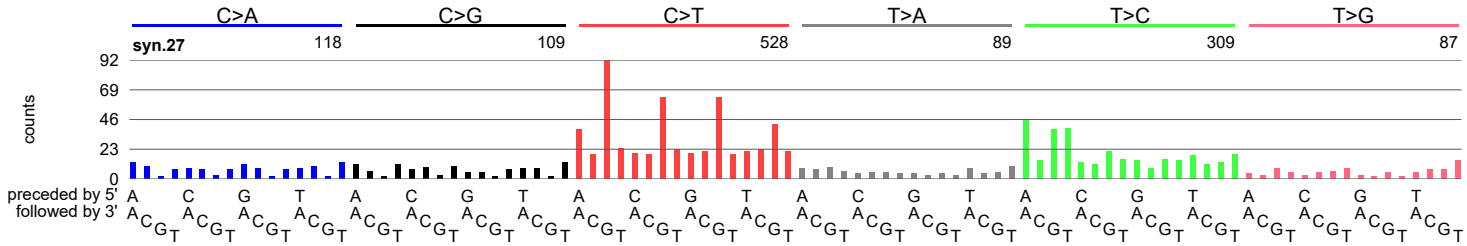

C>A
C>G
C>T
T>A
T>C
T>G
syn.22
41098
25851
41861
20069
30065
24993
5508
4131
2754
1377
0
counts
preceded by 5'
followed by 3'

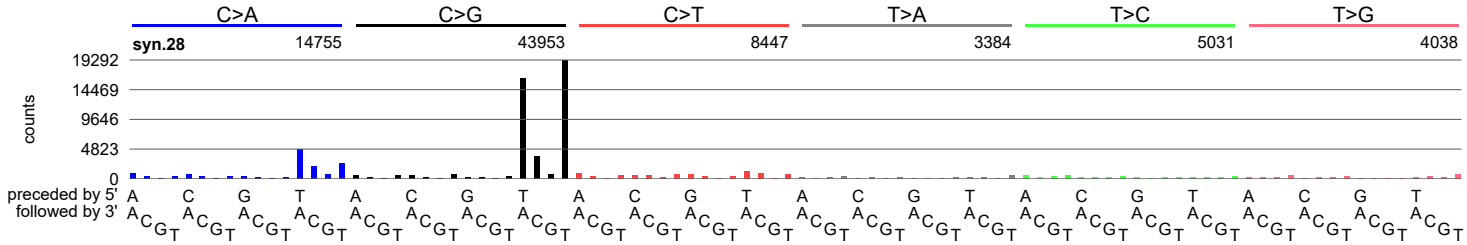

C>A
C>G
C>T
T>A
T>C
T>G
syn.23
1856
1246
219813
2220
3578
560
58420
43815
29210
14605
0
counts
preceded by 5'
followed by 3'

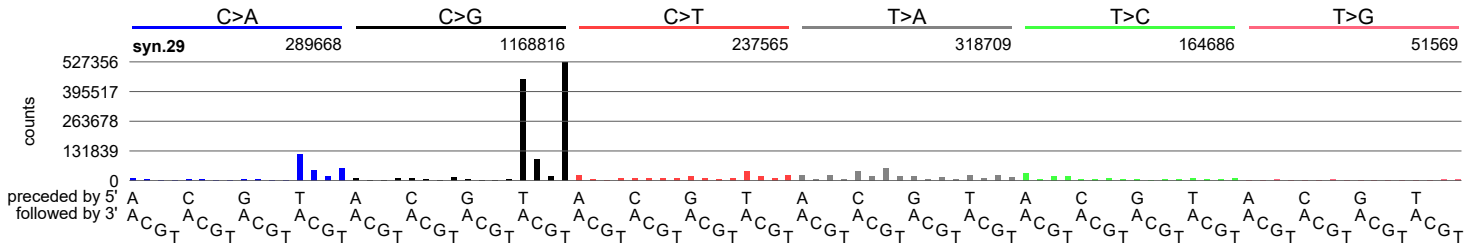

C>A
C>G
C>T
T>A
T>C
T>G
syn.24
1489
1157
2921
944
2602
1010
376
282
188
94
0
counts
preceded by 5'
followed by 3'

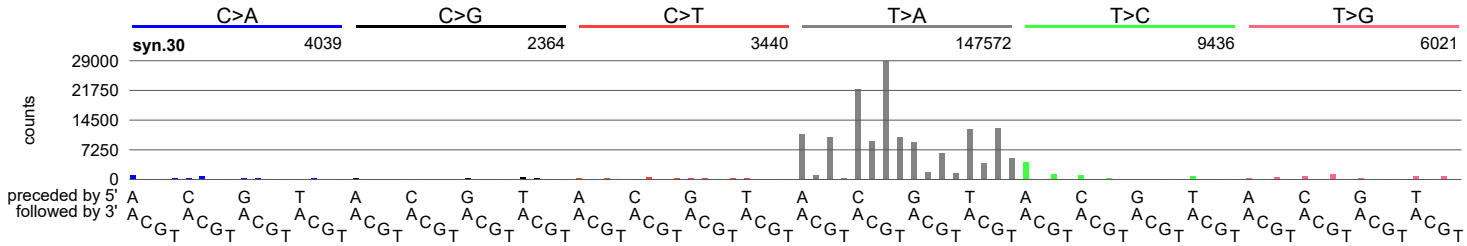

C>A
C>G
C>T
T>A
T>C
T>G
syn.25
290367
1348336
98678
16600
40176
12538
counts
625332
468999
312666
156333
0
preceded by 5'
followed by 3'

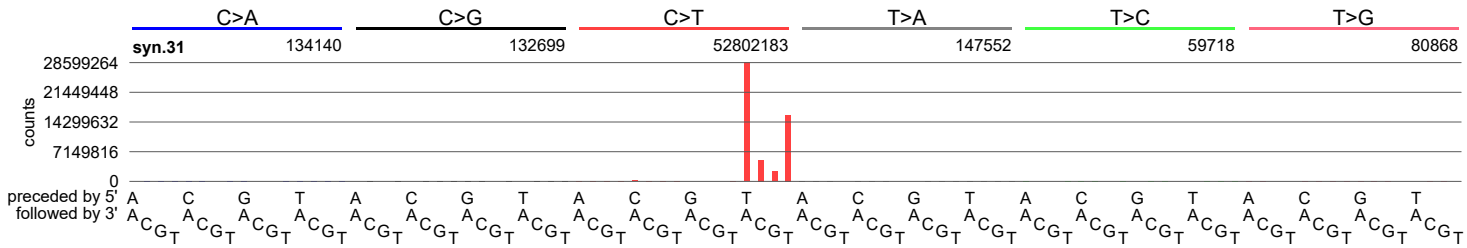

C>A
C>G
C>T
T>A
T>C
T>G
syn.26
53
41
92
31
84
38
counts
12
9
6
3
0
preceded by 5'
followed by 3'

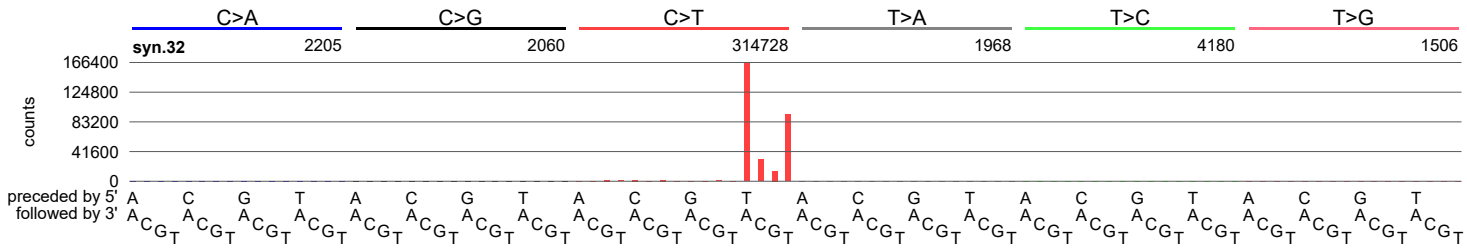

C>A
C>G
C>T
T>A
T>C
T>G
syn.27
118
109
528
89
309
87
counts
92
69
46
23
0
preceded by 5'
followed by 3'

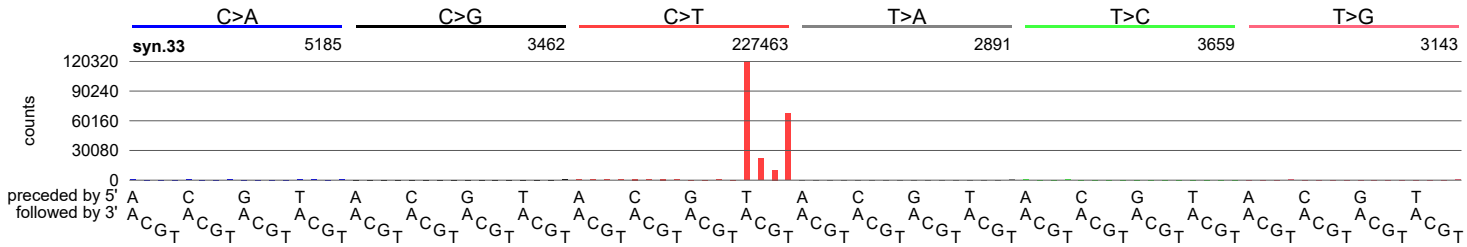

C>A
C>G
C>T
T>A
T>C
T>G
syn.28
14755
43953
8447
3384
5031
4038
counts
19292
14469
9646
4823
0
preceded by 5'
followed by 3'

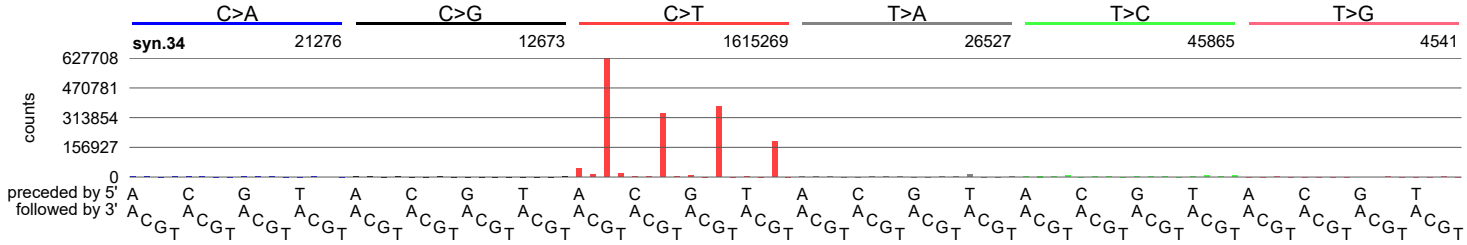

C>A
C>G
C>T
T>A
T>C
T>G
syn.29
289668
1168816
237565
318709
164686
51569
counts
527356
395517
263678
131839
0
preceded by 5'
followed by 3'

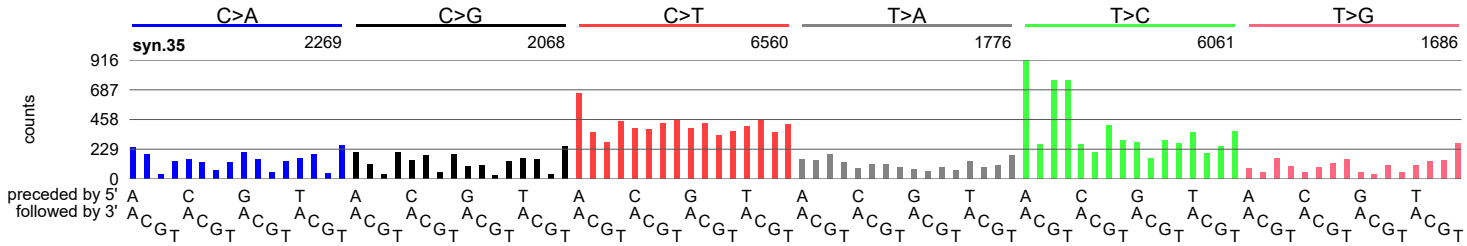

C>A
C>G
C>T
T>A
T>C
T>G
syn.30
4039
2364
3440
147572
9436
6021
counts
29000
21750
14500
7250
0
preceded by 5'
followed by 3'

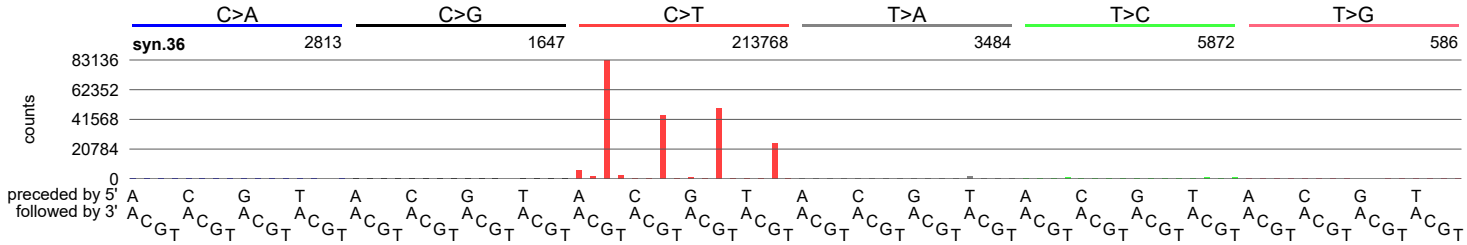

C>A
C>G
C>T
T>A
T>C
T>G
syn.31
134140
132699
52802183
147552
59718
80868
counts
28599264
21449448
14299632
7149816
0
preceded by 5'
followed by 3'

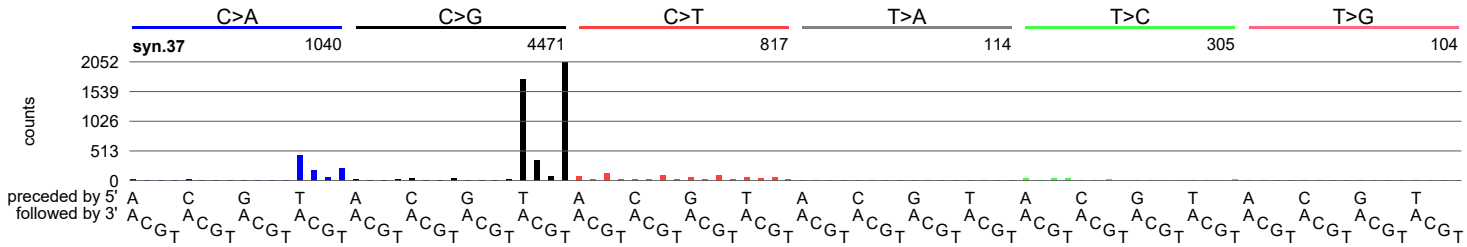

C>A
C>G
C>T
T>A
T>C
T>G
syn.32
2205
2060
314728
1968
4180
1506
counts
166400
124800
83200
41600
0
preceded by 5'
followed by 3'

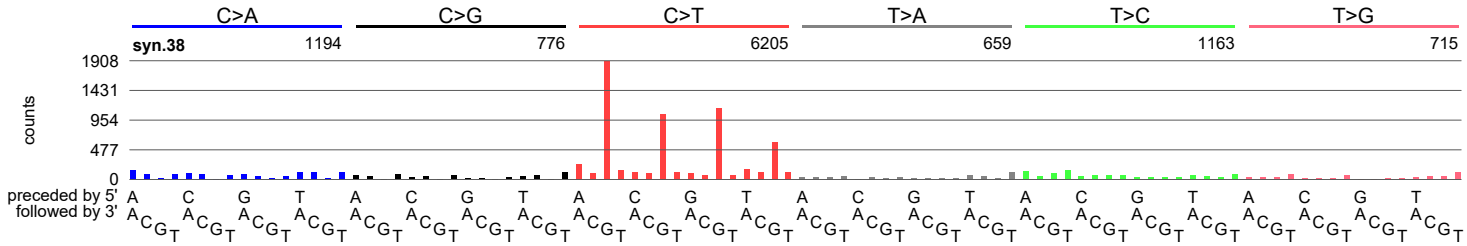

C>A
C>G
C>T
T>A
T>C
T>G
syn.33
5185
3462
227463
2891
3659
3143
120320
90240
60160
30080
0
counts
preceded by 5'
followed by 3'

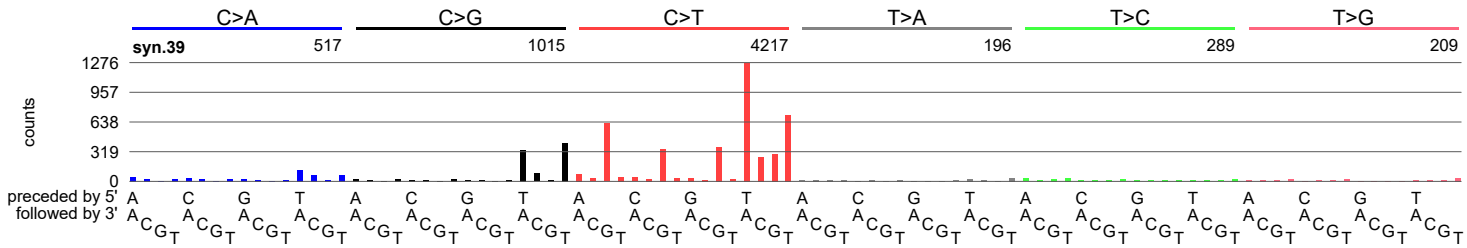

C>A
C>G
C>T
T>A
T>C
T>G
syn.34
21276
12673
1615269
26527
45865
4541
627708
470781
313854
156927
0
counts
preceded by 5'
followed by 3'

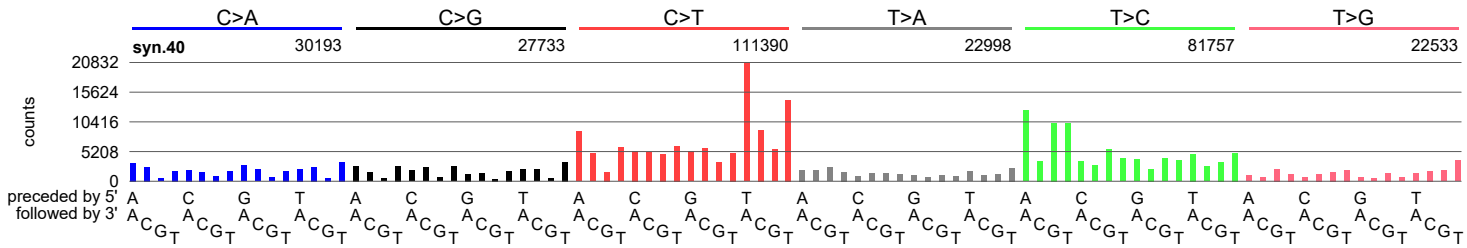

C>A
C>G
C>T
T>A
T>C
T>G
syn.35
2269
2068
6560
1776
6061
1686
916
687
458
229
0
counts
preceded by 5'
followed by 3'

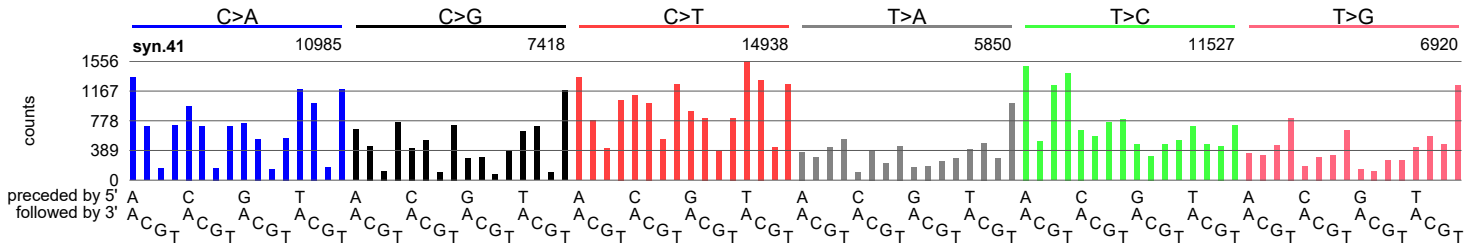

C>A
C>G
C>T
T>A
T>C
T>G
syn.36
2813
1647
213768
3484
5872
586
83136
62352
41568
20784
0
counts
preceded by 5'
followed by 3'

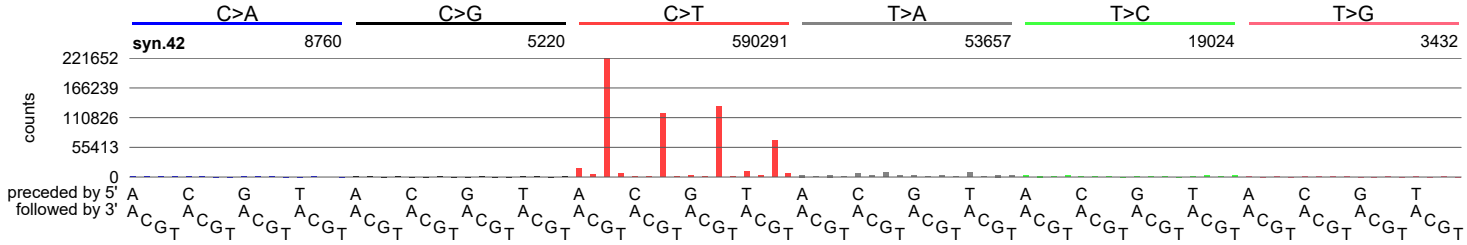

C>A
C>G
C>T
T>A
T>C
T>G
syn.37
1040
4471
817
114
305
104
2052
1539
1026
513
0
counts
preceded by 5'
followed by 3'

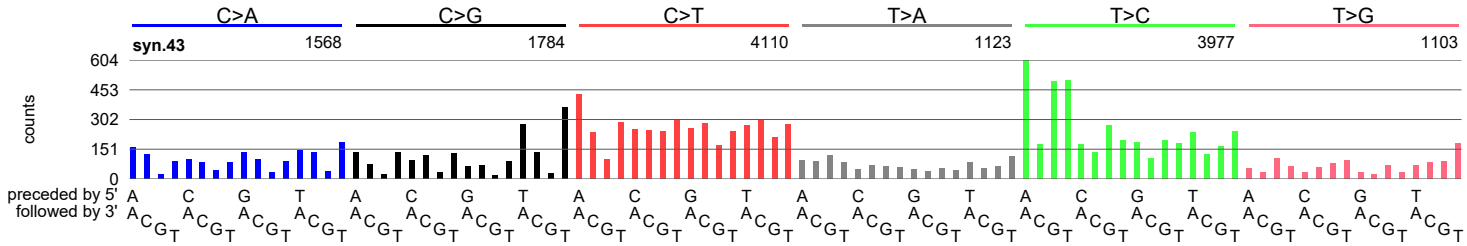

C>A
C>G
C>T
T>A
T>C
T>G
syn.38
1194
776
6205
659
1163
715
1908
1431
954
477
0
counts
preceded by 5'
followed by 3'

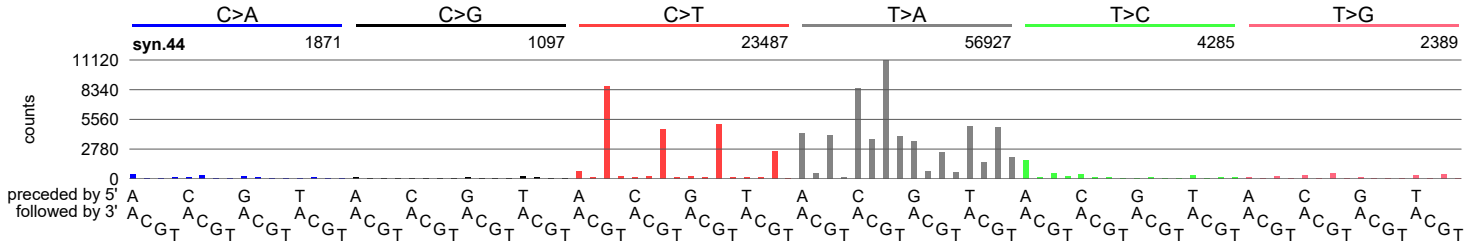

C>A
C>G
C>T
T>A
T>C
T>G
syn.39
517
1015
4217
196
289
209
1276
957
638
319
0
counts
preceded by 5'
followed by 3'

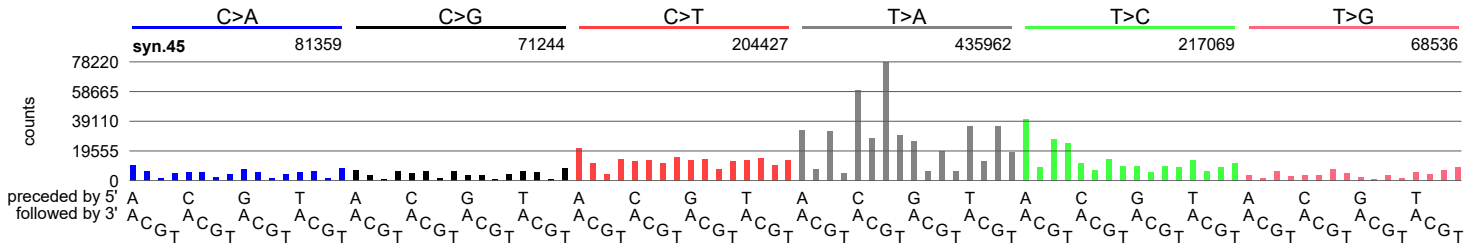

C>A
C>G
C>T
T>A
T>C
T>G
syn.40
30193
27733
111390
22998
81757
22533
20832
15624
10416
5208
0
counts
preceded by 5'
followed by 3'

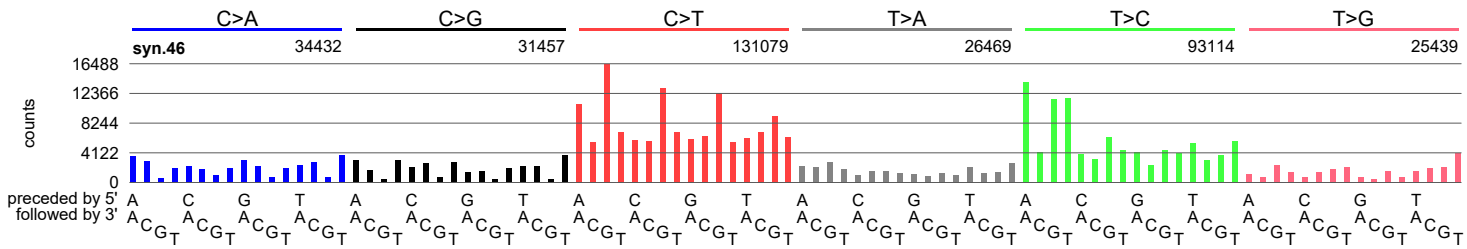

C>A
C>G
C>T
T>A
T>C
T>G
syn.41
10985
7418
14938
5850
11527
6920
counts
1556
1167
778
389
0
preceded by 5'
followed by 3'

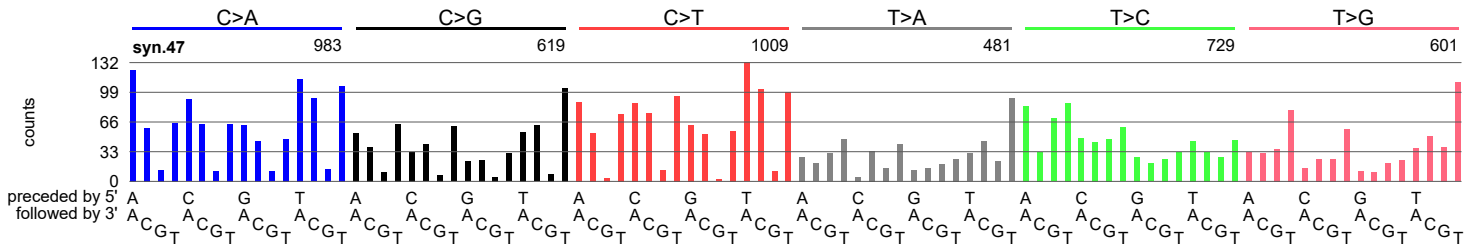

C>A
C>G
C>T
T>A
T>C
T>G
syn.42
8760
5220
590291
53657
19024
3432
counts
221652
166239
110826
55413
0
preceded by 5'
followed by 3'

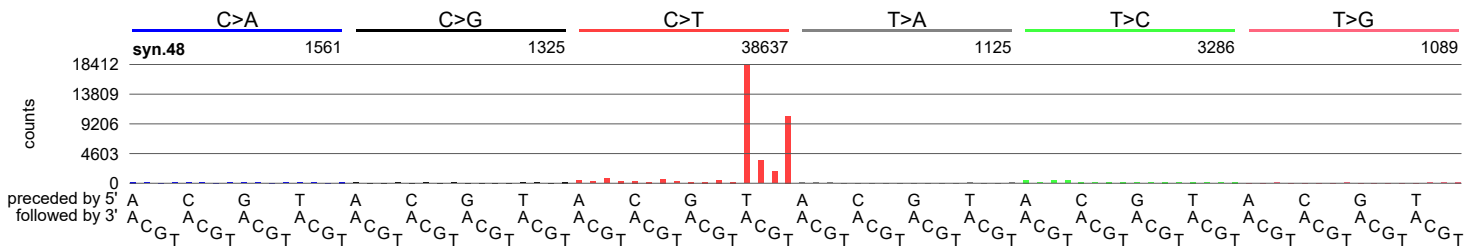

C>A
C>G
C>T
T>A
T>C
T>G
syn.43
1568
1784
4110
1123
3977
1103
counts
604
453
302
151
0
preceded by 5'
followed by 3'

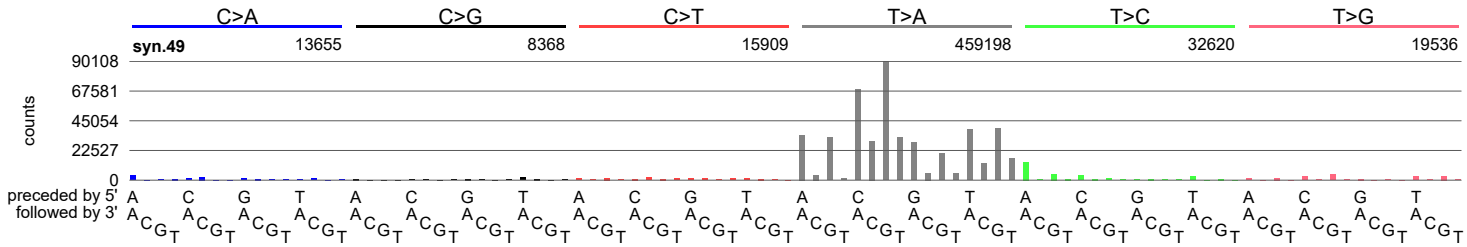

C>A
C>G
C>T
T>A
T>C
T>G
syn.44
1871
1097
23487
56927
4285
2389
counts
11120
8340
5560
2780
0
preceded by 5'
followed by 3'

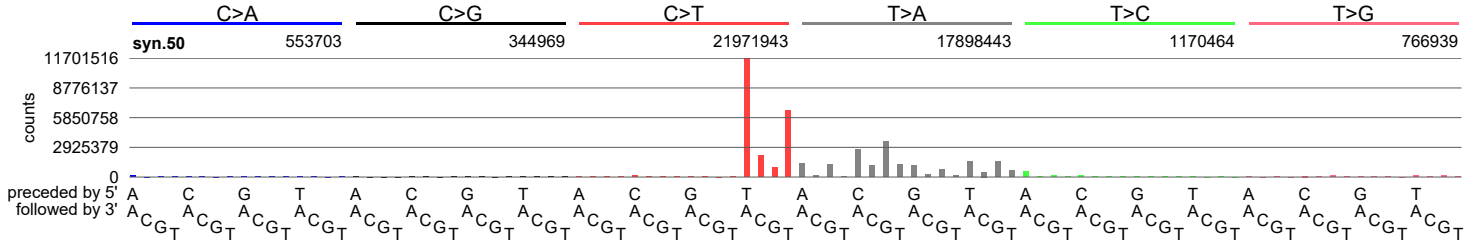

C>A
C>G
C>T
T>A
T>C
T>G
syn.45
81359
71244
204427
435962
217069
68536
counts
78220
58665
39110
19555
0
preceded by 5'
followed by 3'

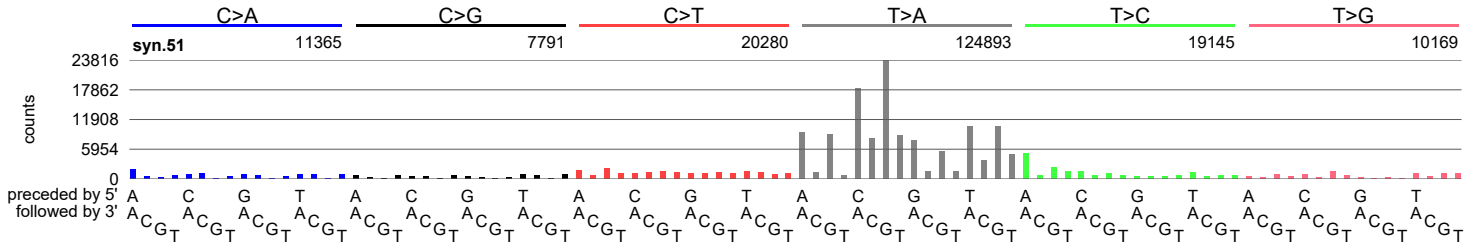

C>A
C>G
C>T
T>A
T>C
T>G
syn.46
34432
31457
131079
26469
93114
25439
counts
16488
12366
8244
4122
0
preceded by 5'
followed by 3'

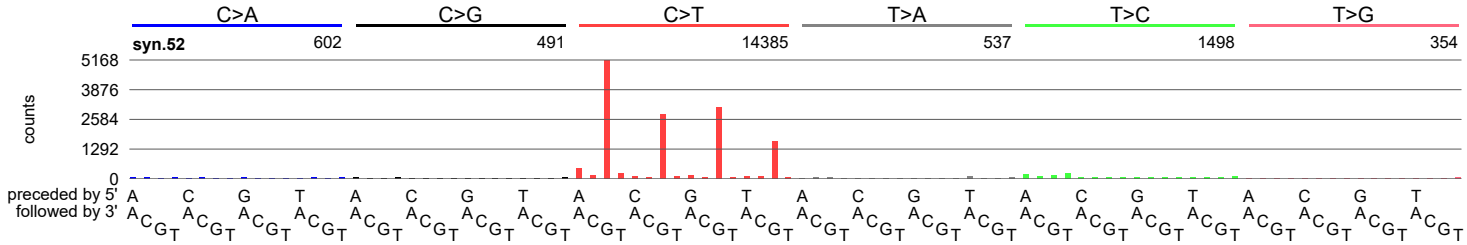

C>A
C>G
C>T
T>A
T>C
T>G
syn.47
983
619
1009
481
729
601
counts
132
99
66
33
0
preceded by 5'
followed by 3'

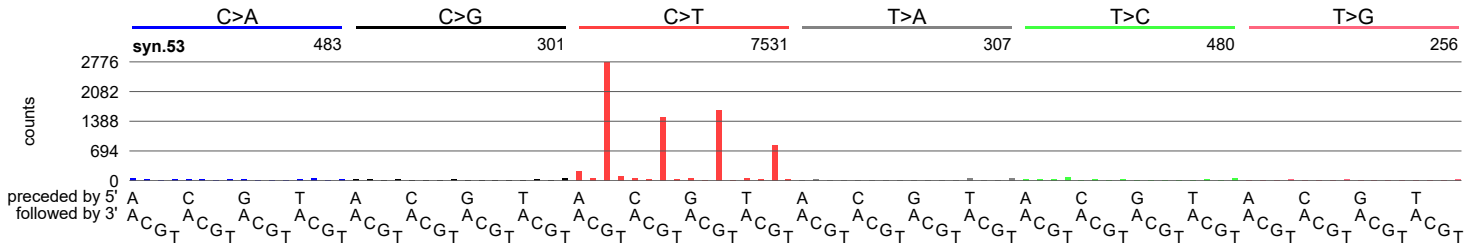

C>A
C>G
C>T
T>A
T>C
T>G
syn.48
1561
1325
38637
1125
3286
1089
counts
18412
13809
9206
4603
0
preceded by 5'
followed by 3'

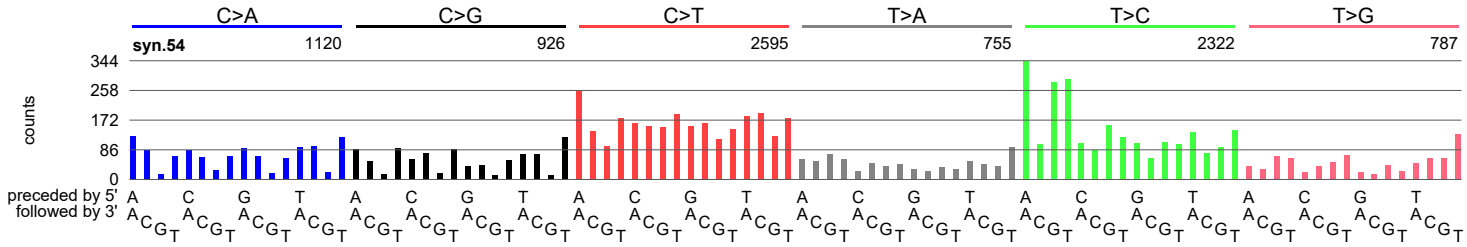

C>A
C>G
C>T
T>A
T>C
T>G
syn.49
13655
8368
15909
459198
32620
19536
90108
67581
45054
22527
0
counts
preceded by 5'
followed by 3'

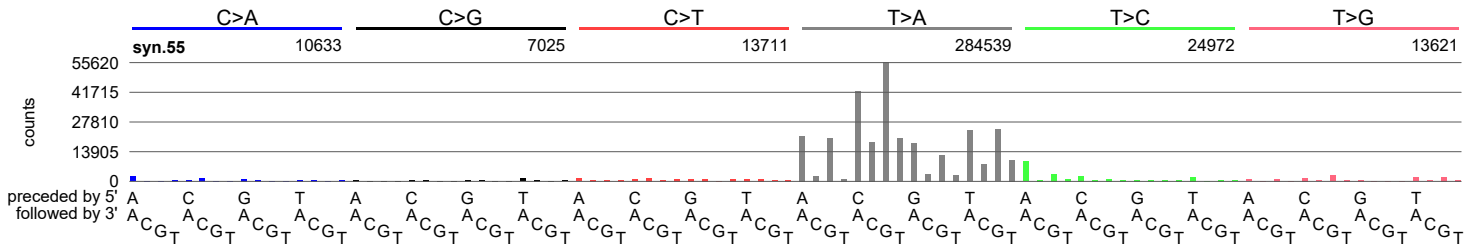

C>A
C>G
C>T
T>A
T>C
T>G
syn.50
553703
344969
21971943
17898443
1170464
766939
11701516
8776137
5850758
2925379
0
counts
preceded by 5'
followed by 3'

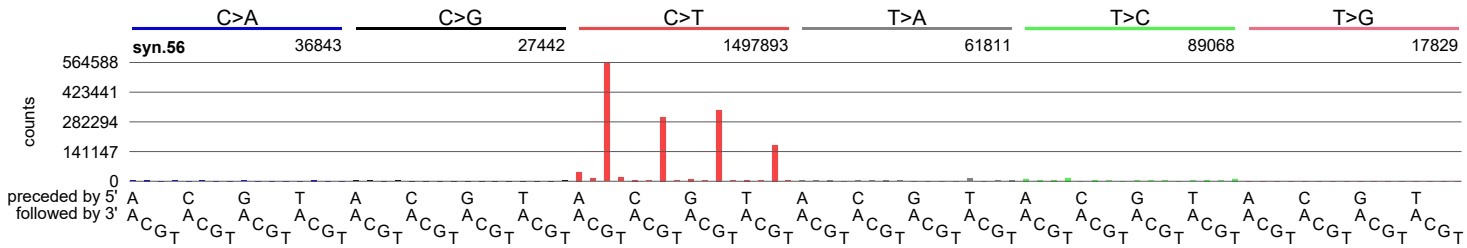

C>A
C>G
C>T
T>A
T>C
T>G
syn.51
11365
7791
20280
124893
19145
10169
23816
17862
11908
5954
0
counts
preceded by 5'
followed by 3'

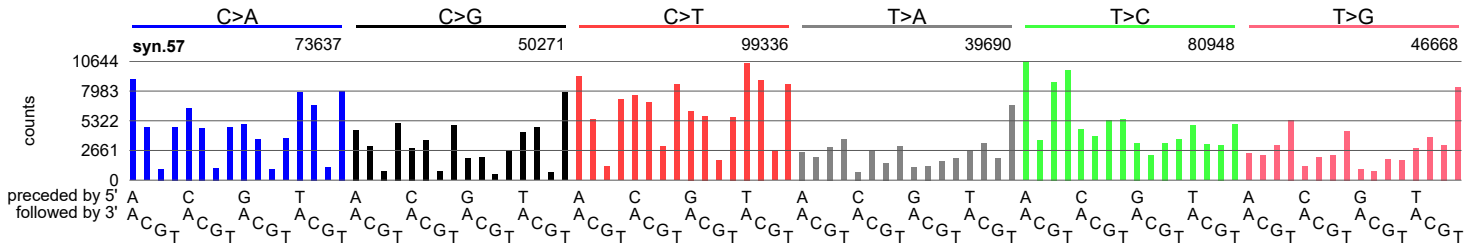

C>A
C>G
C>T
T>A
T>C
T>G
syn.52
602
491
14385
537
1498
354
5168
3876
2584
1292
0
counts
preceded by 5'
followed by 3'

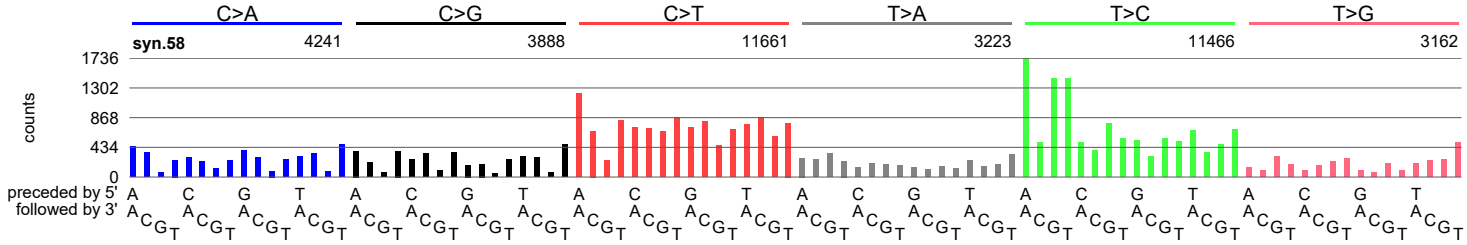

C>A
C>G
C>T
T>A
T>C
T>G
syn.53
483
301
7531
307
480
256
2776
2082
1388
694
0
counts
preceded by 5'
followed by 3'

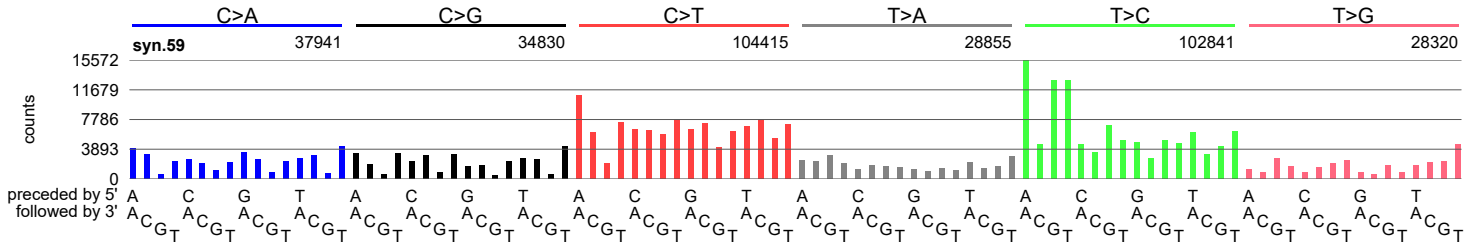

C>A
C>G
C>T
T>A
T>C
T>G
syn.54
1120
926
2595
755
2322
787
344
258
172
86
0
counts
preceded by 5'
followed by 3'

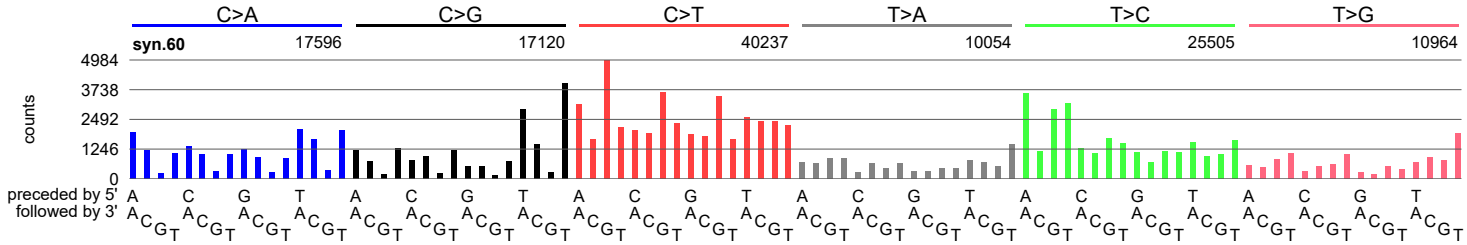

C>A
C>G
C>T
T>A
T>C
T>G
syn.55
10633
7025
13711
284539
24972
13621
55620
41715
27810
13905
0
counts
preceded by 5'
followed by 3'

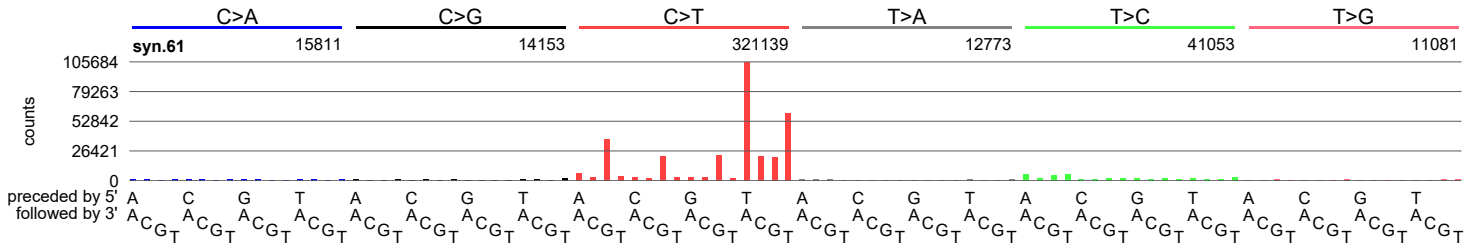

C>A
C>G
C>T
T>A
T>C
T>G
syn.56
36843
27442
1497893
61811
89068
17829
564588
423441
282294
141147
0
counts
preceded by 5'
followed by 3'

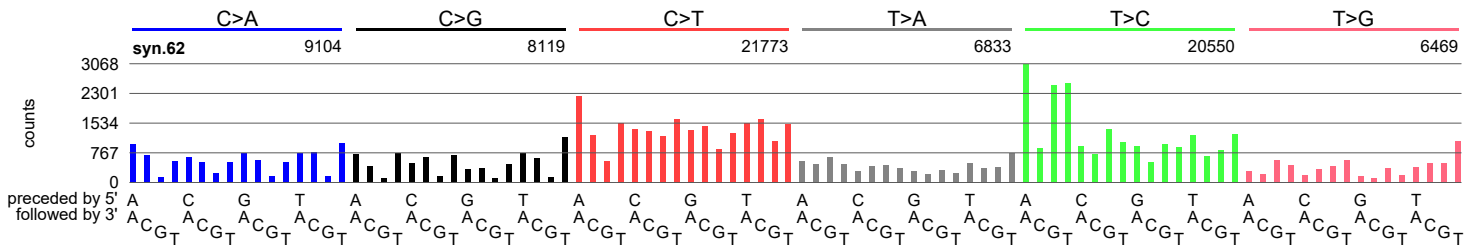

C>A
C>G
C>T
T>A
T>C
T>G
syn.57
73637
50271
99336
39690
80948
46668
counts
10644
7983
5322
2661
0
preceded by 5'
followed by 3'

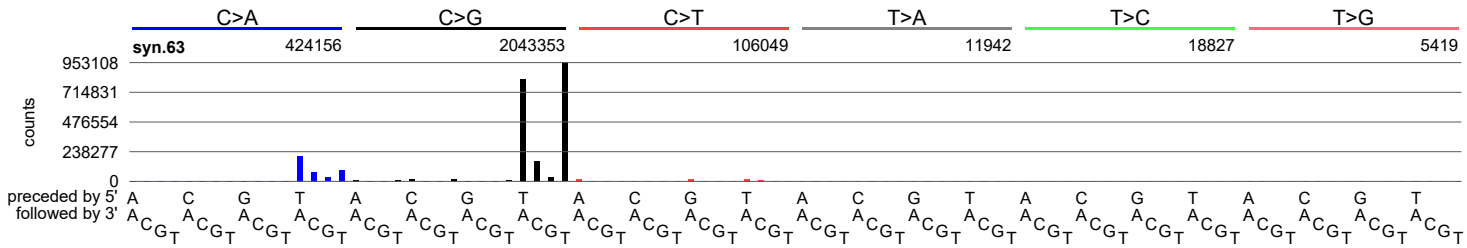

C>A
C>G
C>T
T>A
T>C
T>G
syn.58
4241
3888
11661
3223
11466
3162
counts
1736
1302
868
434
0
preceded by 5'
followed by 3'

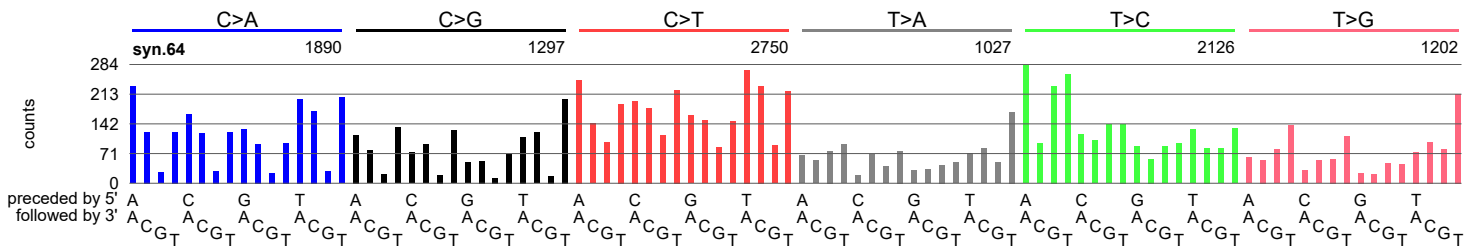

C>A
C>G
C>T
T>A
T>C
T>G
syn.59
37941
34830
104415
28855
102841
28320
counts
15572
11679
7786
3893
0
preceded by 5'
followed by 3'

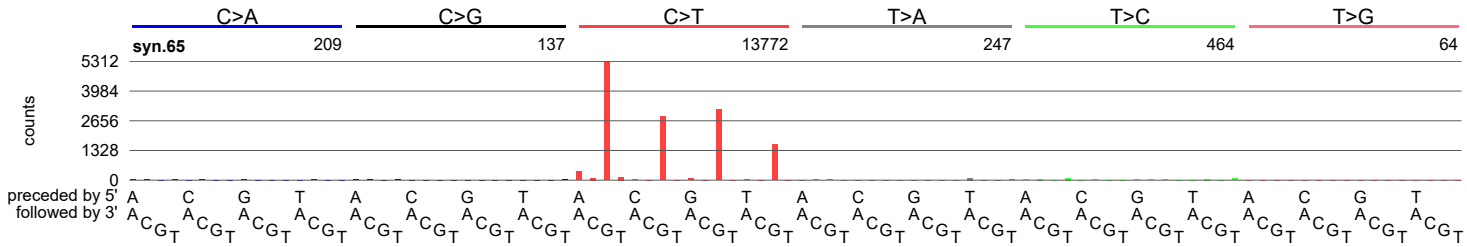

C>A
C>G
C>T
T>A
T>C
T>G
syn.60
17596
17120
40237
10054
25505
10964
counts
4984
3738
2492
1246
0
preceded by 5'
followed by 3'

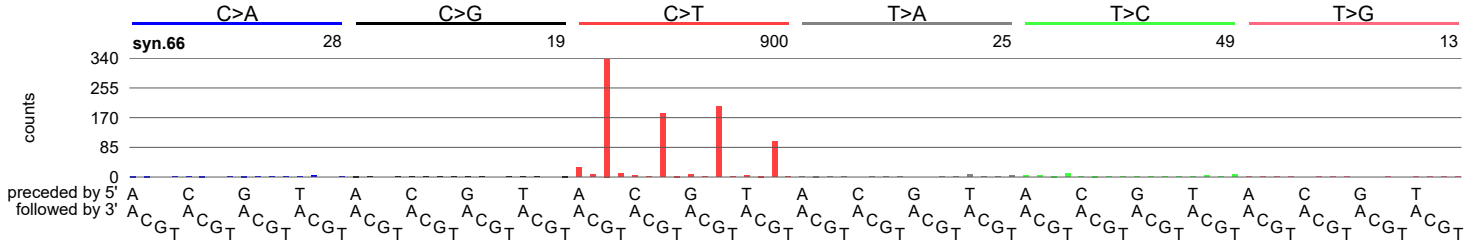

C>A
C>G
C>T
T>A
T>C
T>G
syn.61
15811
14153
321139
12773
41053
11081
counts
105684
79263
52842
26421
0
preceded by 5'
followed by 3'

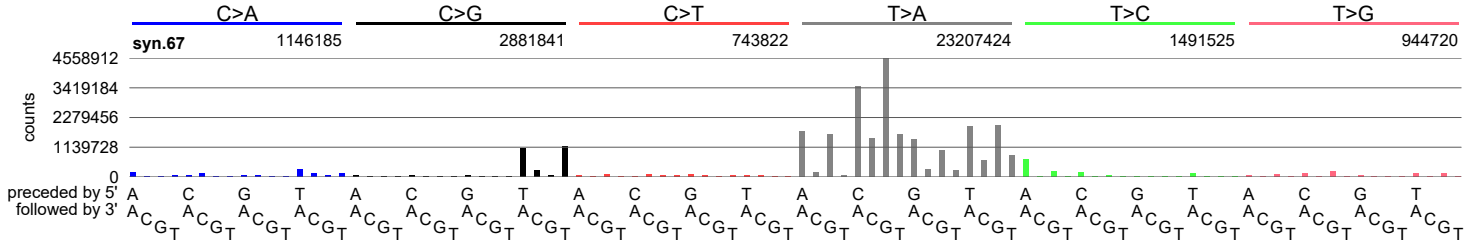

C>A
C>G
C>T
T>A
T>C
T>G
syn.62
9104
8119
21773
6833
20550
6469
counts
3068
2301
1534
767
0
preceded by 5'
followed by 3'

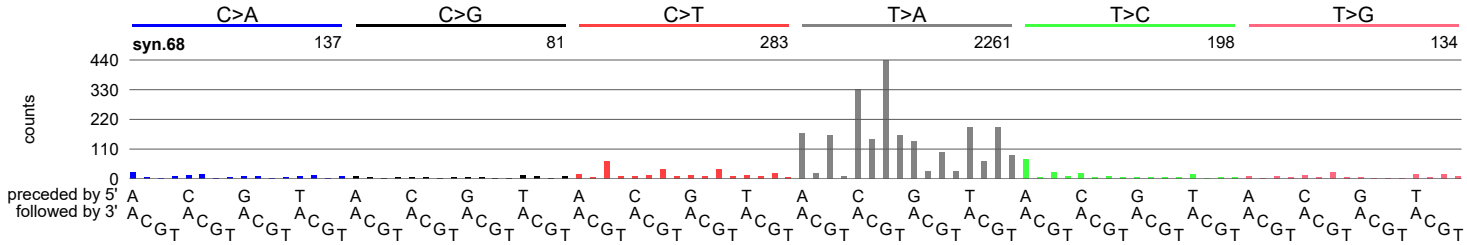

C>A
C>G
C>T
T>A
T>C
T>G
syn.63
424156
2043353
106049
11942
18827
5419
counts
953108
714831
476554
238277
0
preceded by 5'
followed by 3'

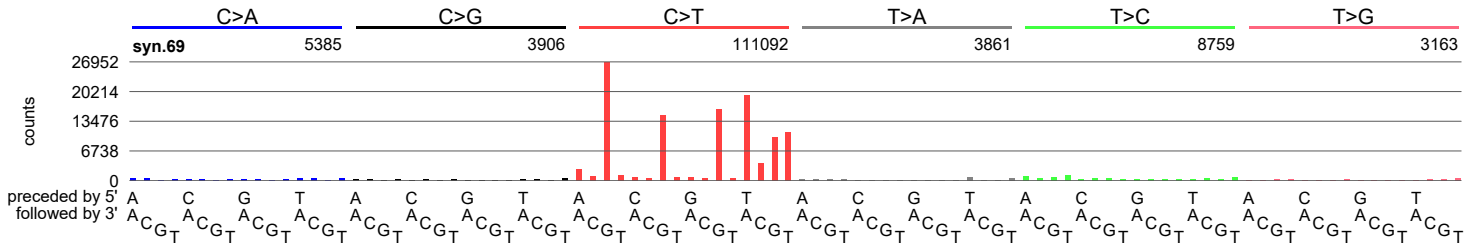

C>A
C>G
C>T
T>A
T>C
T>G
syn.64
1890
1297
2750
1027
2126
1202
counts
284
213
142
71
0
preceded by 5'
followed by 3'

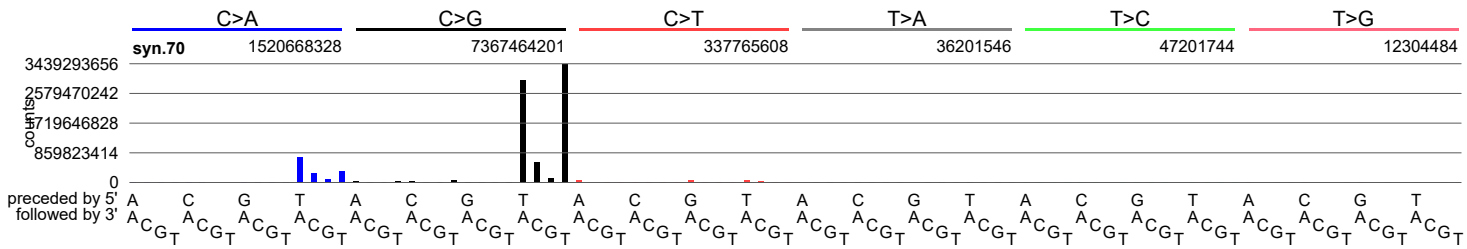

C>A
C>G
C>T
T>A
T>C
T>G
syn.65
209
137
13772
247
464
64
counts
5312
3984
2656
1328
0
preceded by 5'
followed by 3'

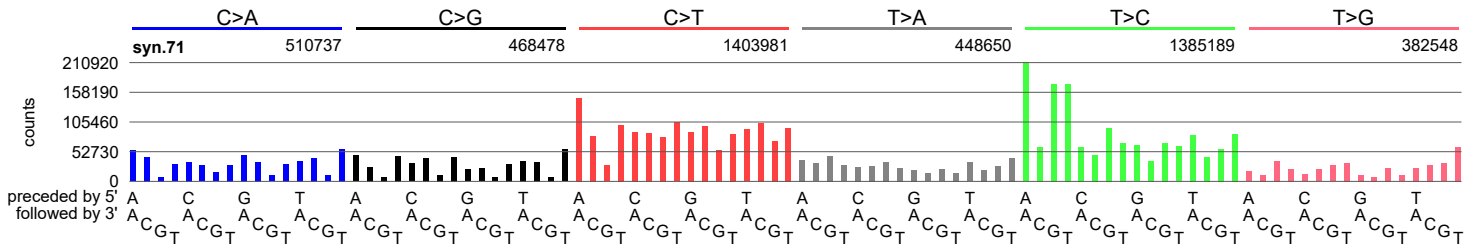

C>A
C>G
C>T
T>A
T>C
T>G
syn.66
28
19
900
25
49
13
counts
340
255
170
85
0
preceded by 5'
followed by 3'

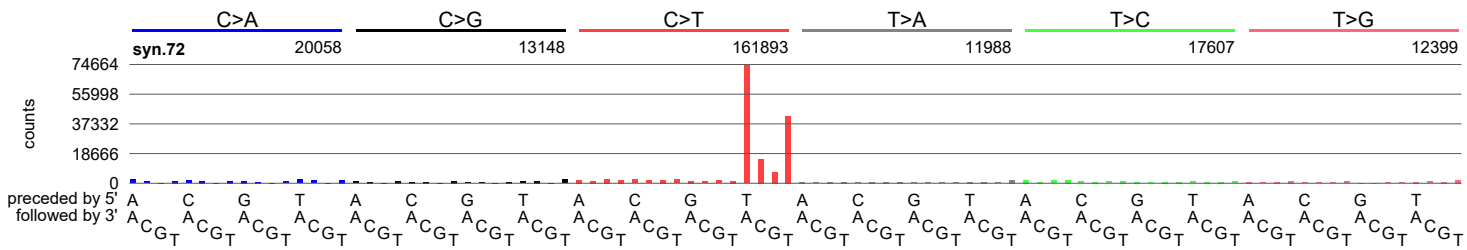

C>A
C>G
C>T
T>A
T>C
T>G
syn.67
1146185
2881841
743822
23207424
1491525
944720
counts
4558912
3419184
2279456
1139728
0
preceded by 5'
followed by 3'

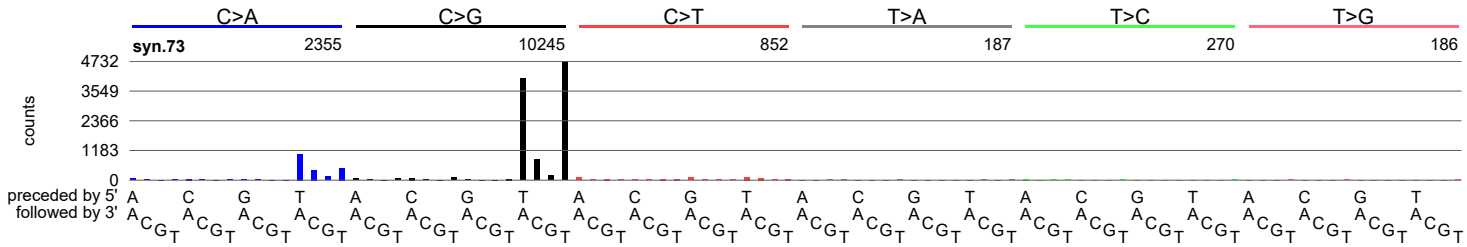

C>A
C>G
C>T
T>A
T>C
T>G
syn.68
137
81
283
2261
198
134
counts
440
330
220
110
0
preceded by 5'
followed by 3'

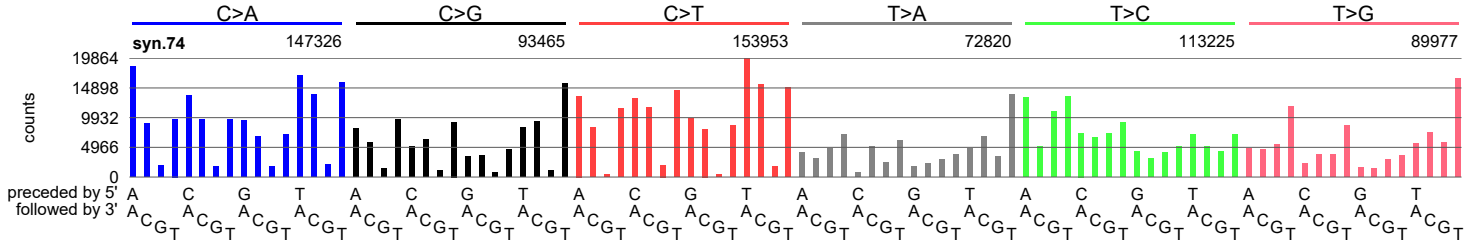

C>A
C>G
C>T
T>A
T>C
T>G
syn.69
5385
3906
111092
3861
8759
3163
counts
26952
20214
13476
6738
0
preceded by 5'
followed by 3'

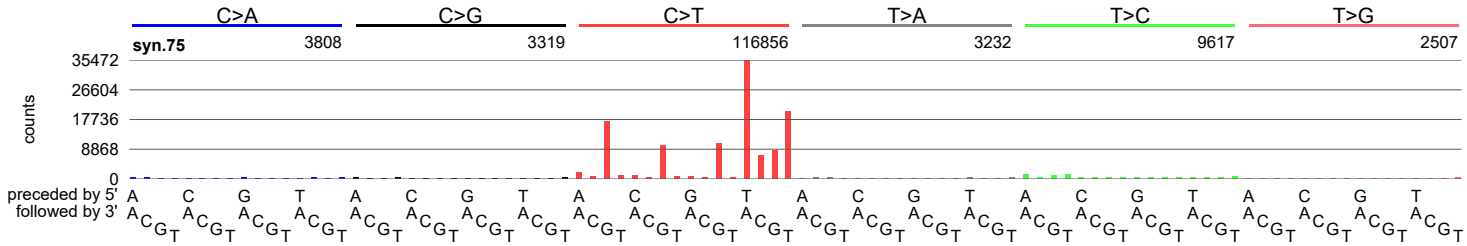

C>A
C>G
C>T
T>A
T>C
T>G
syn.70
1520668328
7367464201
337765608
36201546
47201744
12304484
counts
3439293656
2579470242
1719646828
859823414
0
preceded by 5'
followed by 3'

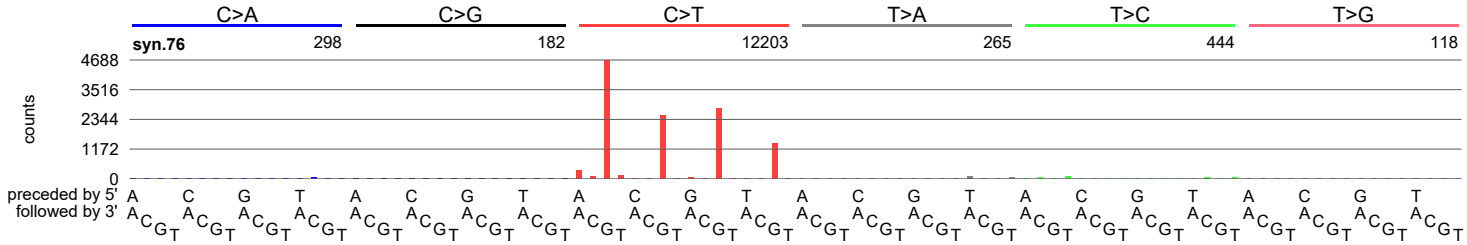

C>A
C>G
C>T
T>A
T>C
T>G
syn.71
510737
468478
1403981
448650
1385189
382548
counts
210920
158190
105460
52730
0
preceded by 5'
followed by 3'

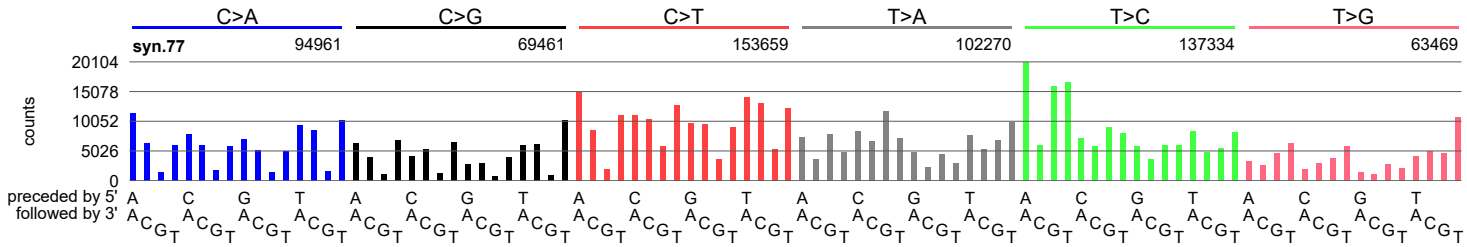

C>A
C>G
C>T
T>A
T>C
T>G
syn.72
20058
13148
161893
11988
17607
12399
counts
74664
55998
37332
18666
0
preceded by 5'
followed by 3'

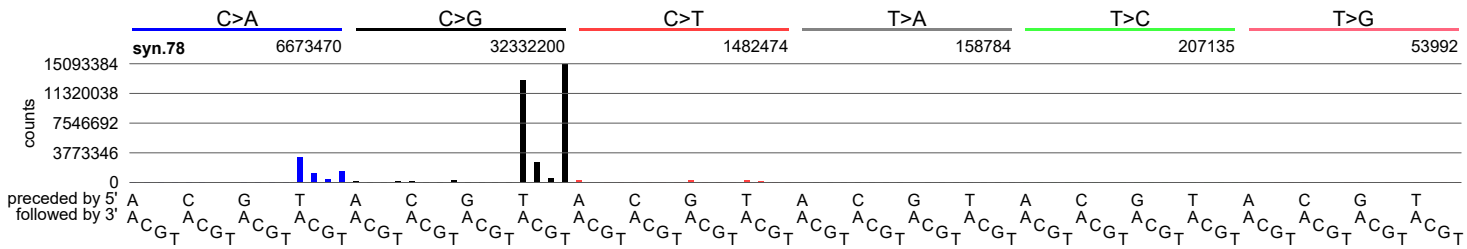

C>A
C>G
C>T
T>A
T>C
T>G
syn.73
2355
10245
852
187
270
186
counts
4732
3549
2366
1183
0
preceded by 5'
followed by 3'

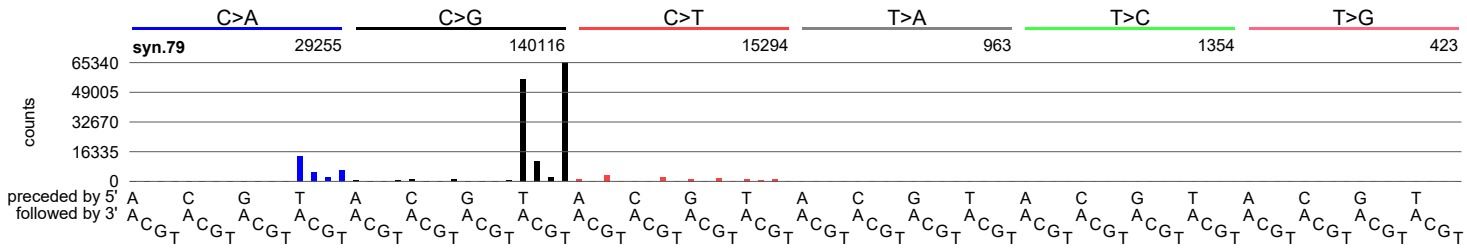

C>A
C>G
C>T
T>A
T>C
T>G
syn.74
147326
93465
153953
72820
113225
89977
counts
19864
14898
9932
4966
0
preceded by 5'
followed by 3'

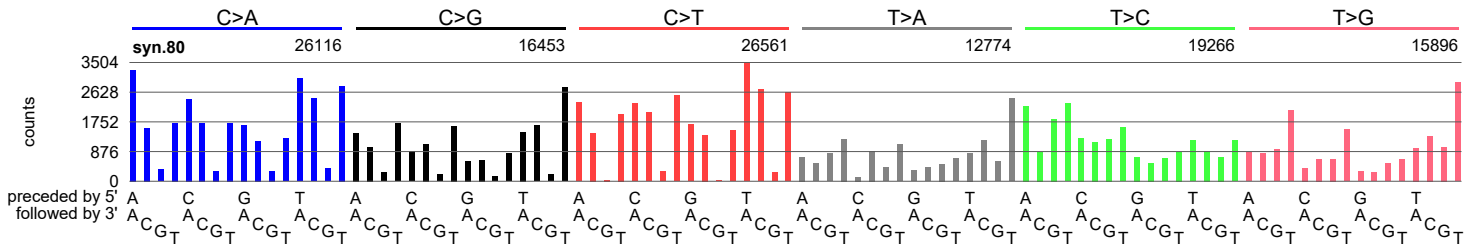

C>A
C>G
C>T
T>A
T>C
T>G
syn.75
3808
3319
116856
3232
9617
2507
counts
35472
26604
17736
8868
0
preceded by 5'
followed by 3'

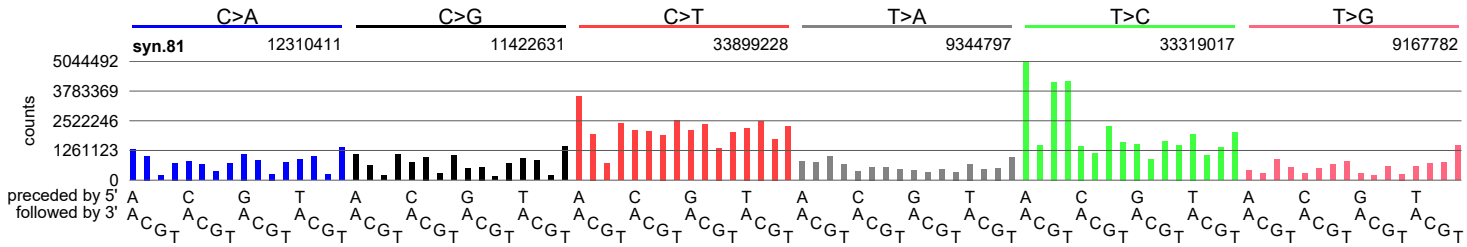

C>A
C>G
C>T
T>A
T>C
T>G
syn.76
298
182
12203
265
444
118
counts
4688
3516
2344
1172
0
preceded by 5'
followed by 3'

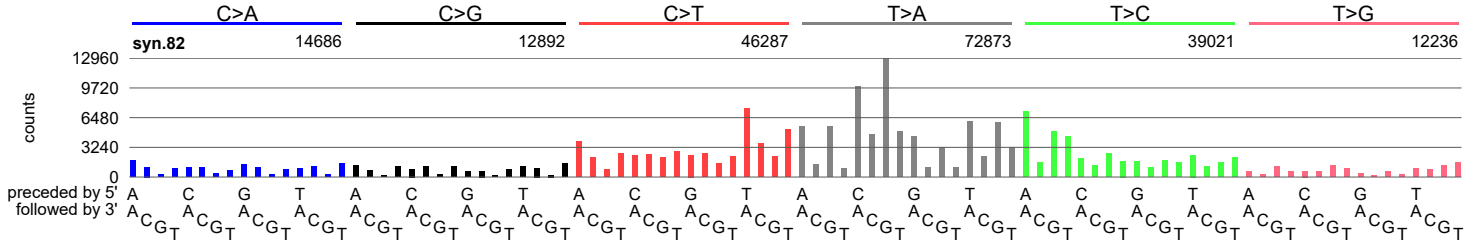

C>A
C>G
C>T
T>A
T>C
T>G
syn.77
94961
69461
153659
102270
137334
63469
counts
20104
15078
10052
5026
0
preceded by 5'
followed by 3'

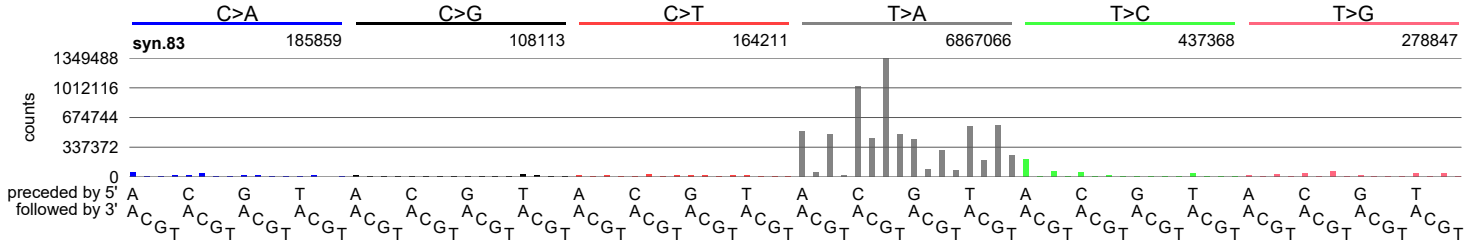

C>A
C>G
C>T
T>A
T>C
T>G
syn.78
6673470
32332200
1482474
158784
207135
53992
counts
15093384
11320038
7546692
3773346
0
preceded by 5'
followed by 3'

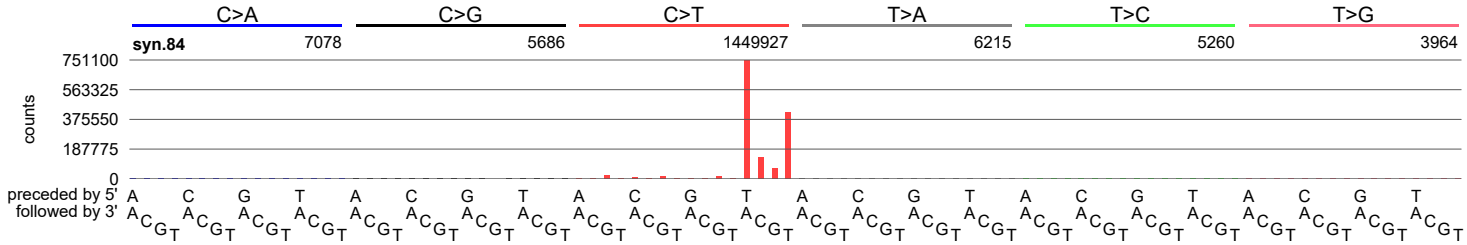

C>A
C>G
C>T
T>A
T>C
T>G
syn.79
29255
140116
15294
963
1354
423
counts
65340
49005
32670
16335
0
preceded by 5'
followed by 3'

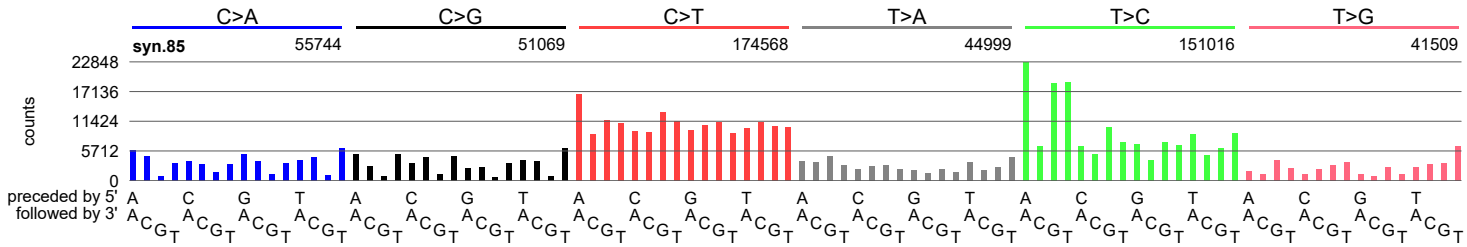

C>A
C>G
C>T
T>A
T>C
T>G
syn.80
26116
16453
26561
12774
19266
15896
counts
3504
2628
1752
876
0
preceded by 5'
followed by 3'

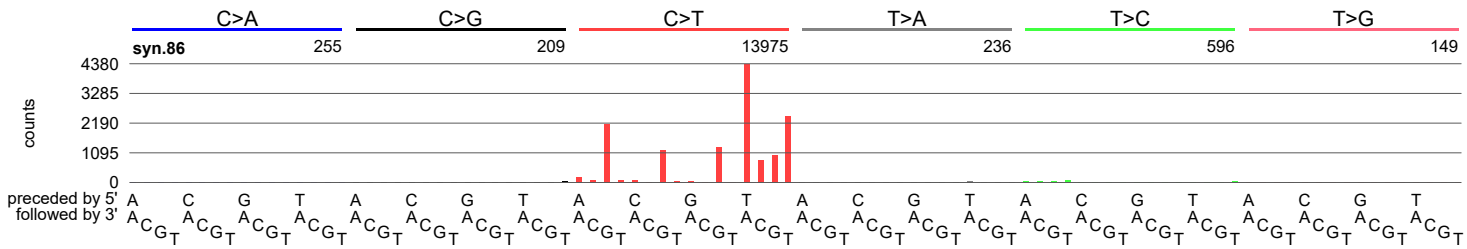

C>A
C>G
C>T
T>A
T>C
T>G
syn.81
12310411
11422631
33899228
9344797
33319017
9167782
counts
5044492
3783369
2522246
1261123
0
preceded by 5'
followed by 3'

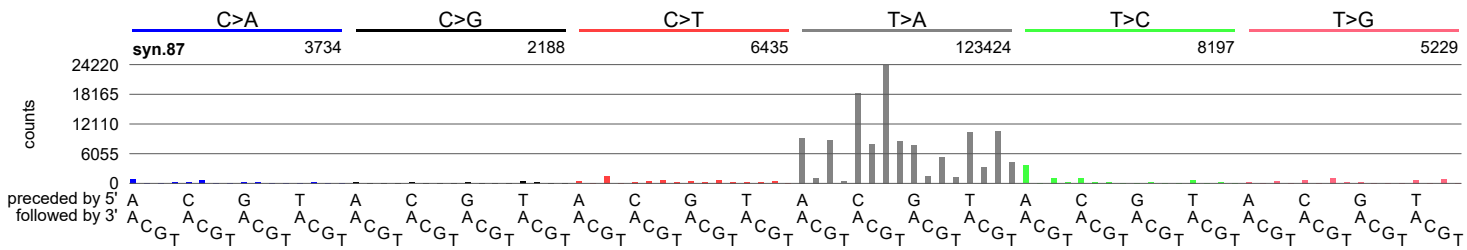

C>A
C>G
C>T
T>A
T>C
T>G
syn.82
14686
12892
46287
72873
39021
12236
counts
12960
9720
6480
3240
0
preceded by 5'
followed by 3'

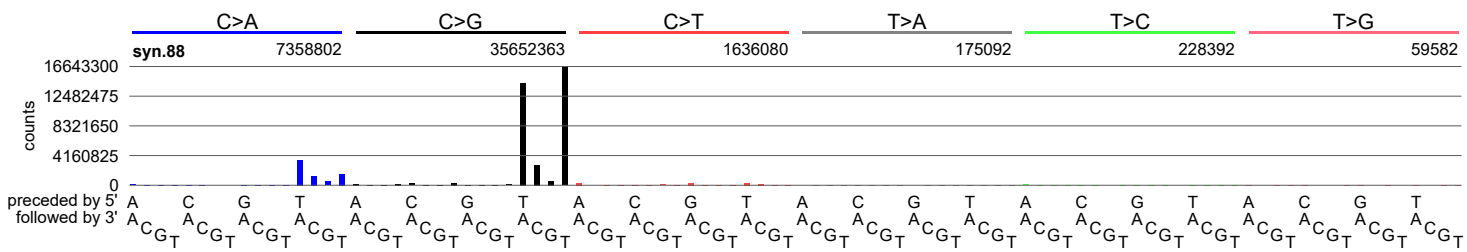

C>A
C>G
C>T
T>A
T>C
T>G
syn.83
185859
108113
164211
6867066
437368
278847
counts
1349488
1012116
674744
337372
0
preceded by 5'
followed by 3'

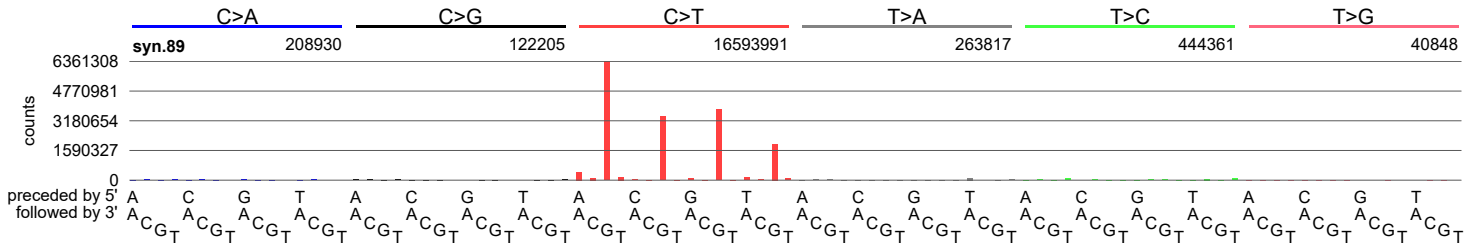

C>A
C>G
C>T
T>A
T>C
T>G
syn.84
7078
5686
1449927
6215
5260
3964
counts
751100
563325
375550
187775
0
preceded by 5'
followed by 3'

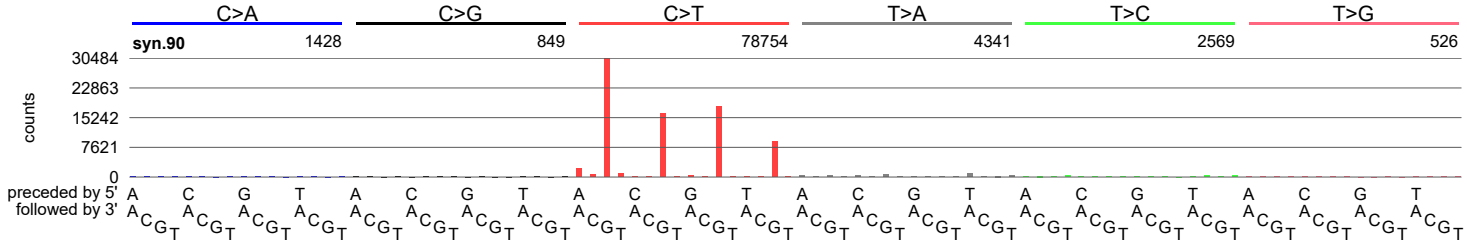

C>A
C>G
C>T
T>A
T>C
T>G
syn.85
55744
51069
174568
44999
151016
41509
counts
22848
17136
11424
5712
0
preceded by 5'
followed by 3'

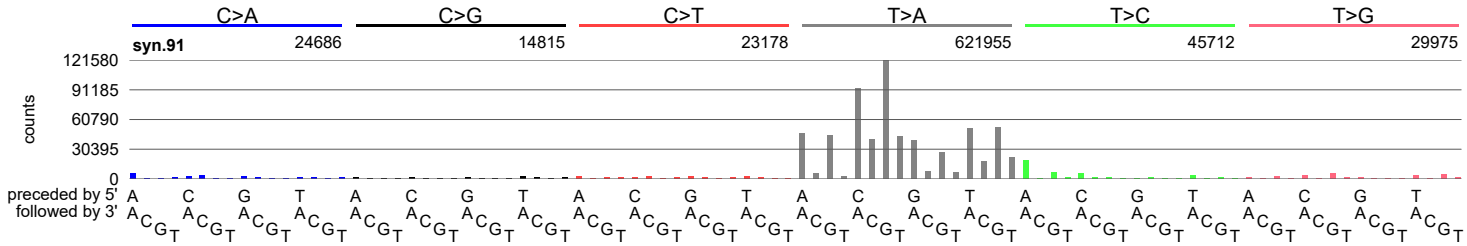

C>A
C>G
C>T
T>A
T>C
T>G
syn.86
255
209
13975
236
596
149
counts
4380
3285
2190
1095
0
preceded by 5'
followed by 3'

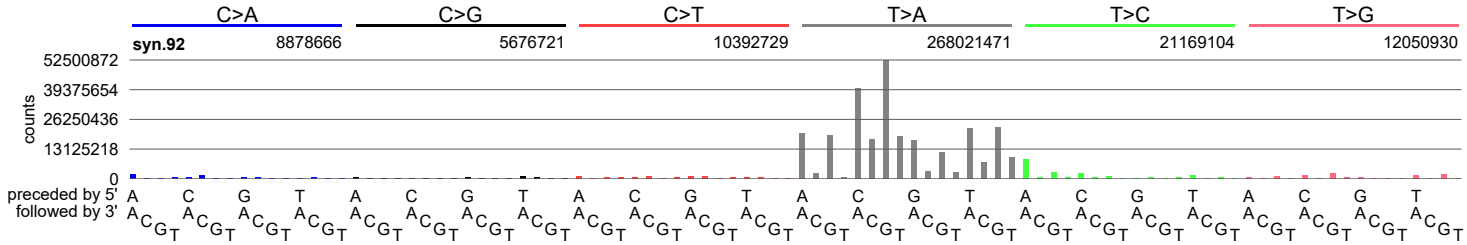

C>A
C>G
C>T
T>A
T>C
T>G
syn.87
3734
2188
6435
123424
8197
5229
counts
24220
18165
12110
6055
0
preceded by 5'
followed by 3'

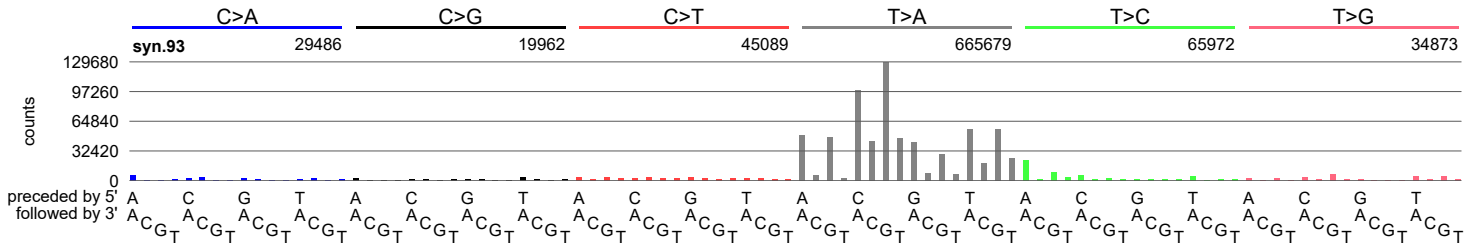

C>A
C>G
C>T
T>A
T>C
T>G
syn.88
7358802
35652363
1636080
175092
228392
59582
counts
16643300
12482475
8321650
4160825
0
preceded by 5'
followed by 3'

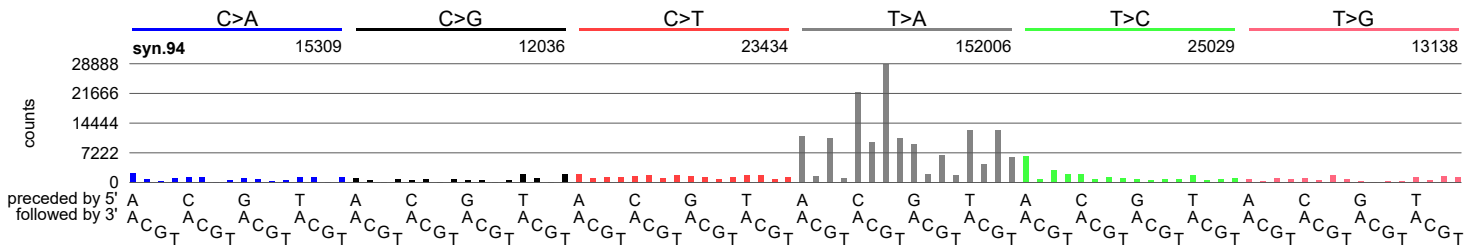

C>A
C>G
C>T
T>A
T>C
T>G
syn.89
208930
122205
16593991
263817
444361
40848
counts
6361308
4770981
3180654
1590327
0
preceded by 5'
followed by 3'

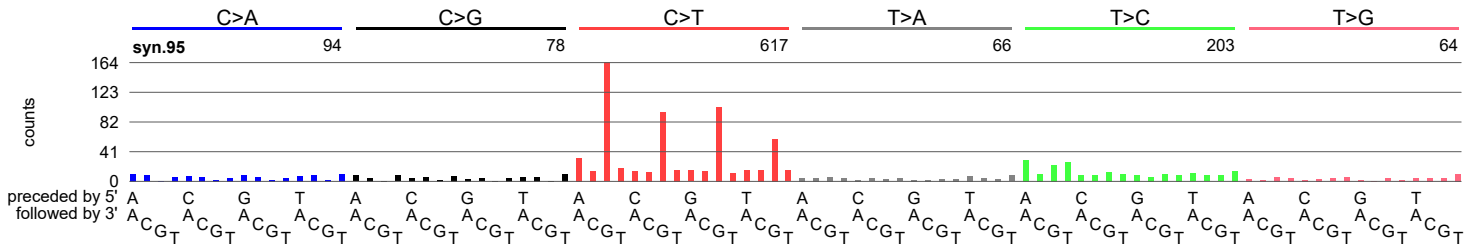

C>A
C>G
C>T
T>A
T>C
T>G
syn.90
1428
849
78754
4341
2569
526
counts
30484
22863
15242
7621
0
preceded by 5'
followed by 3'

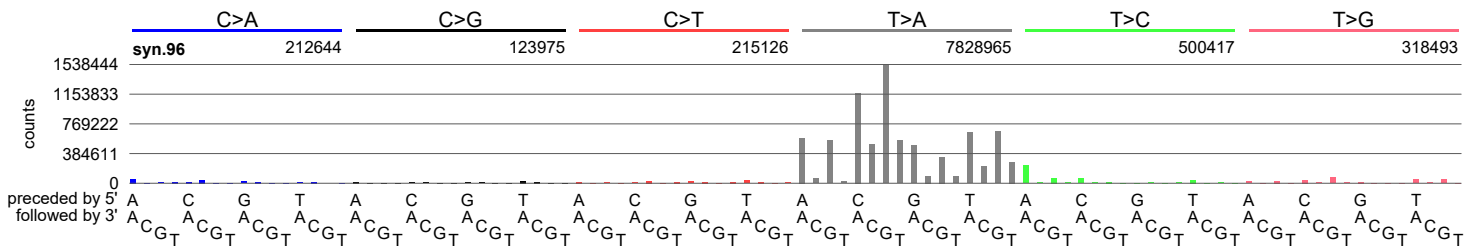

C>A
C>G
C>T
T>A
T>C
T>G
syn.91
24686
14815
23178
621955
45712
29975
counts
121580
91185
60790
30395
0
preceded by 5'
followed by 3'

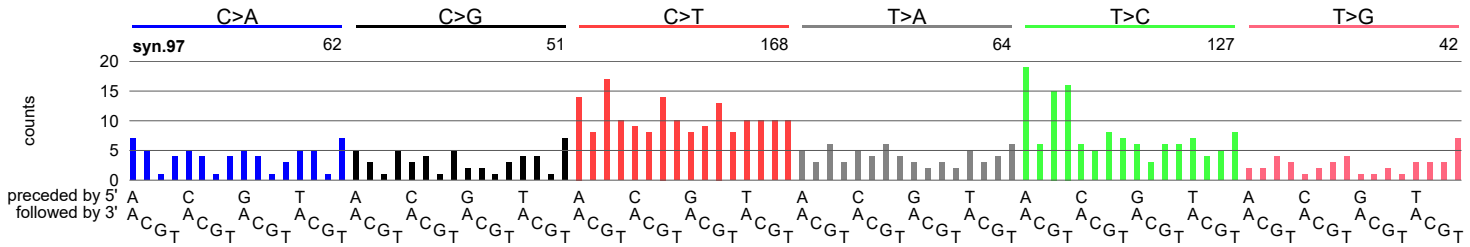

C>A
C>G
C>T
T>A
T>C
T>G
syn.92
8878666
5676721
10392729
268021471
21169104
12050930
counts
52500872
39375654
26250436
13125218
0
preceded by 5'
followed by 3'

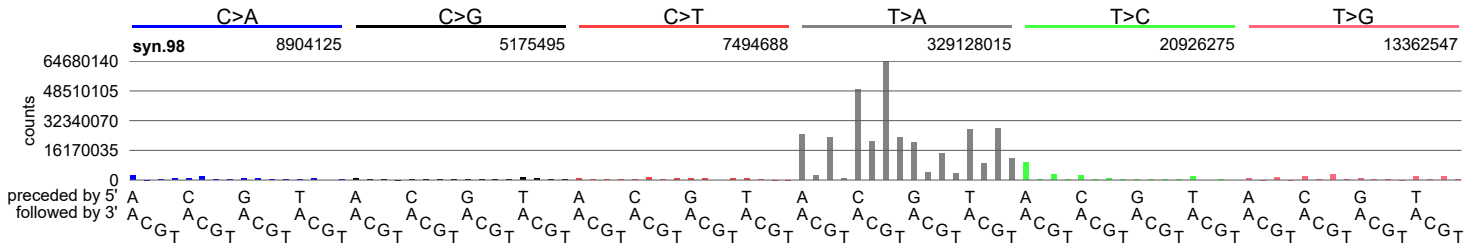

C>A
C>G
C>T
T>A
T>C
T>G
syn.93
29486
19962
45089
665679
65972
34873
counts
129680
97260
64840
32420
0
preceded by 5'
followed by 3'

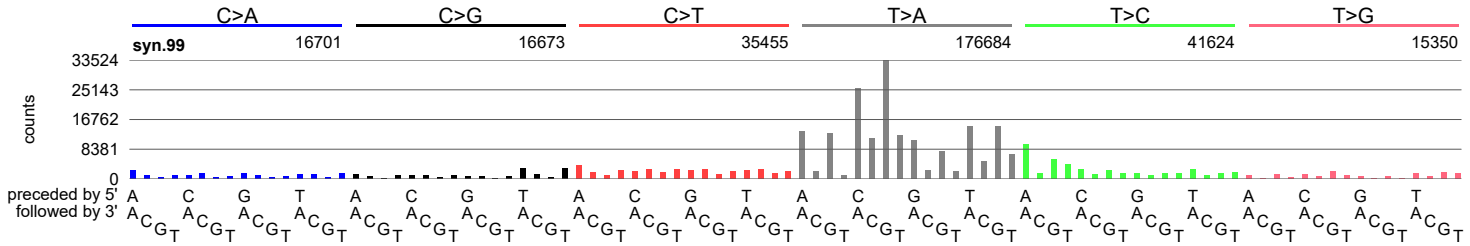

C>A
C>G
C>T
T>A
T>C
T>G
syn.94
15309
12036
23434
152006
25029
13138
counts
28888
21666
14444
7222
0
preceded by 5'
followed by 3'

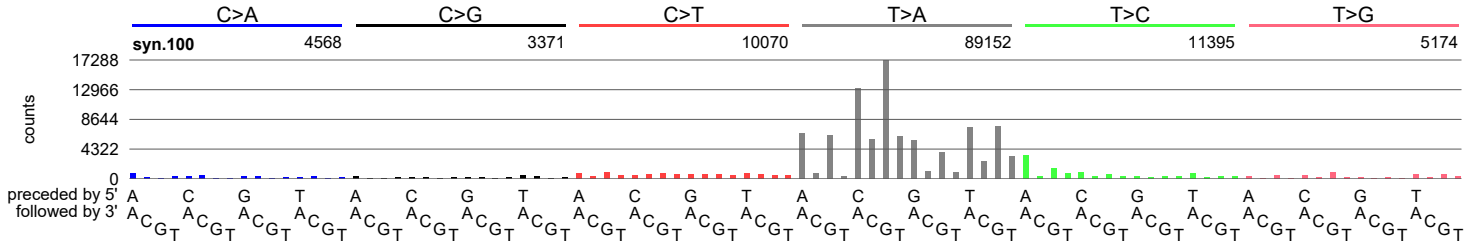

C>A
C>G
C>T
T>A
T>C
T>G
syn.95
94
78
617
66
203
64
counts
164
123
82
41
0
preceded by 5'
followed by 3'


C>A
C>G
C>T
T>A
T>C
T>G
syn.96
212644
123975
215126
7828965
500417
318493
counts
1538444
1153833
769222
384611
0
preceded by 5'
followed by 3'


C>A
C>G
C>T
T>A
T>C
T>G
syn.97
62
51
168
64
127
42
counts
20
15
10
5
0
preceded by 5'
followed by 3'


C>A
C>G
C>T
T>A
T>C
T>G
syn.98
8904125
5175495
7494688
329128015
20926275
13362547
counts
64680140
48510105
32340070
16170035
0
preceded by 5'
followed by 3'


C>A
C>G
C>T
T>A
T>C
T>G
syn.99
16701
16673
35455
176684
41624
15350
counts
33524
25143
16762
8381
0
preceded by 5'
followed by 3'


C>A
C>G
C>T
T>A
T>C
T>G
syn.100
4568
3371
10070
89152
11395
5174
counts
17288
12966
8644
4322
0
preceded by 5'
followed by 3'