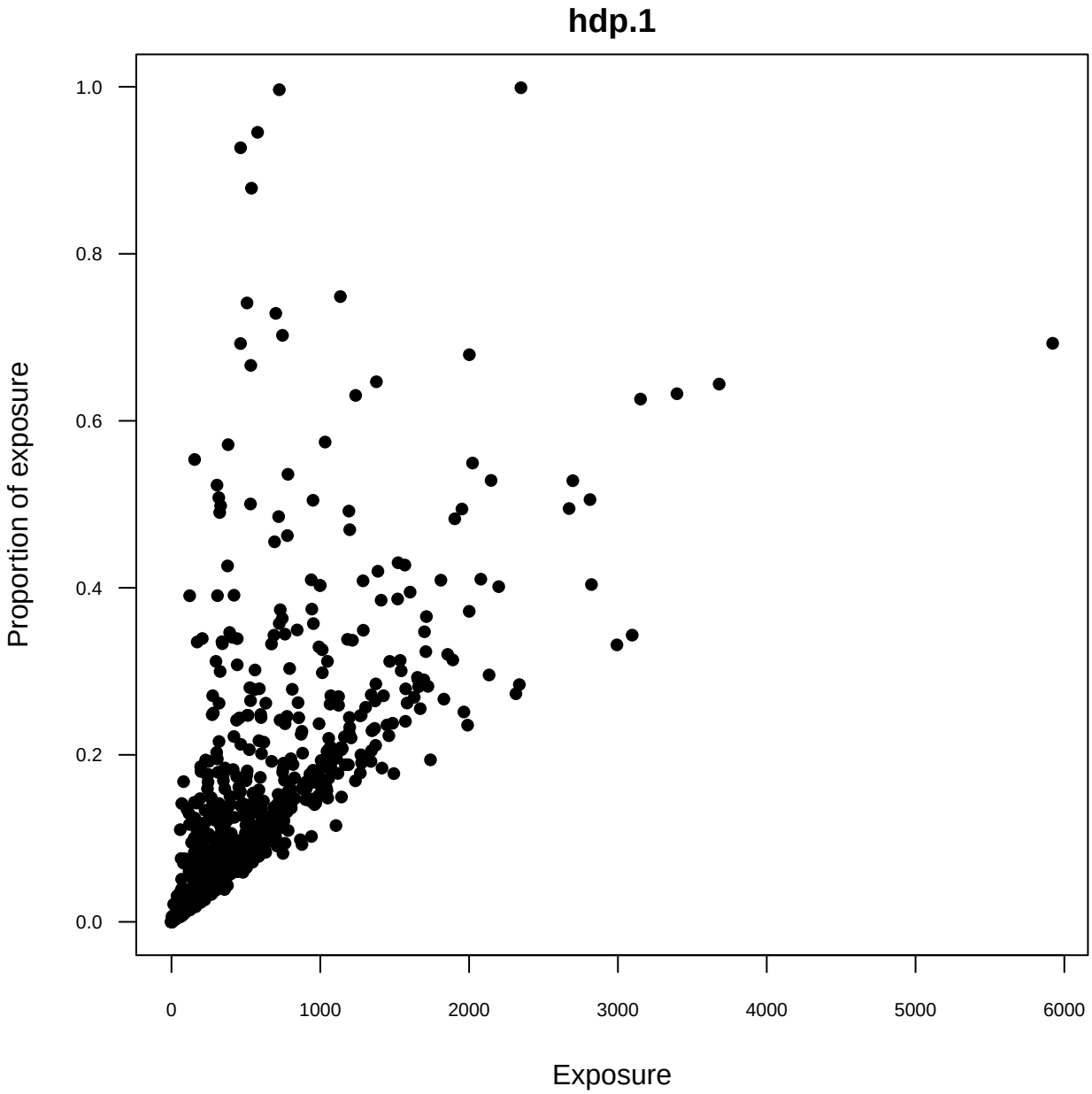
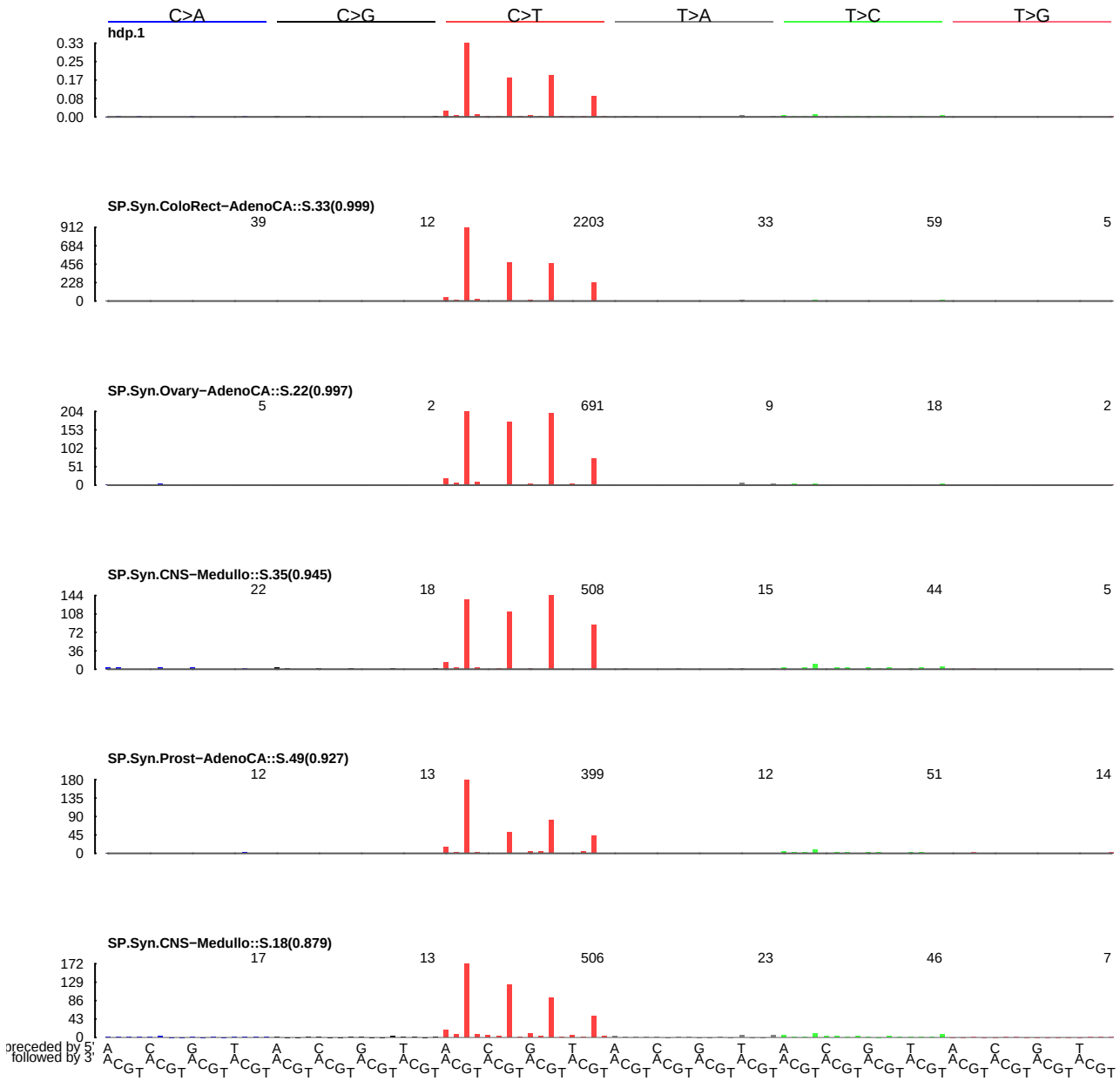
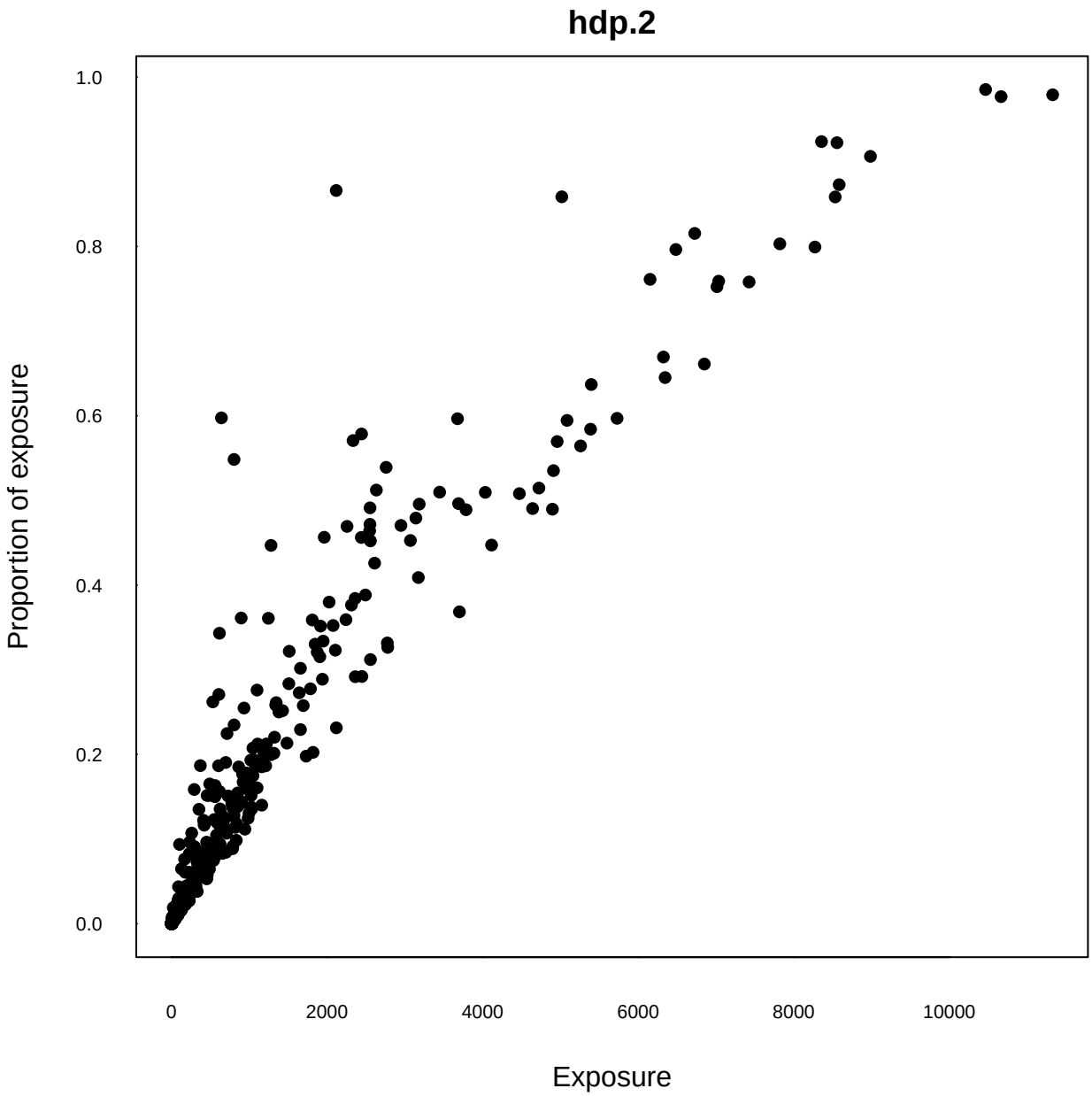
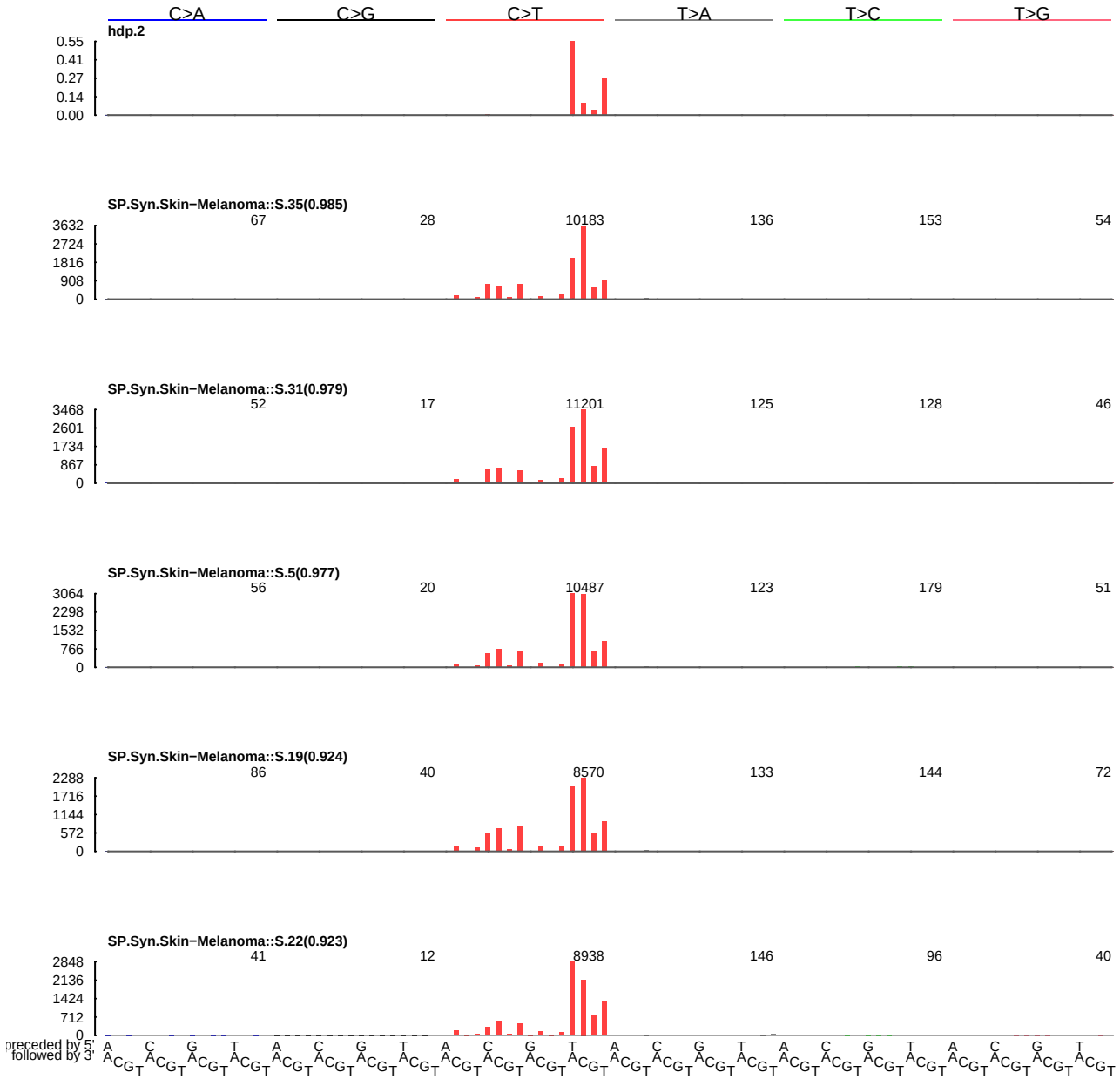
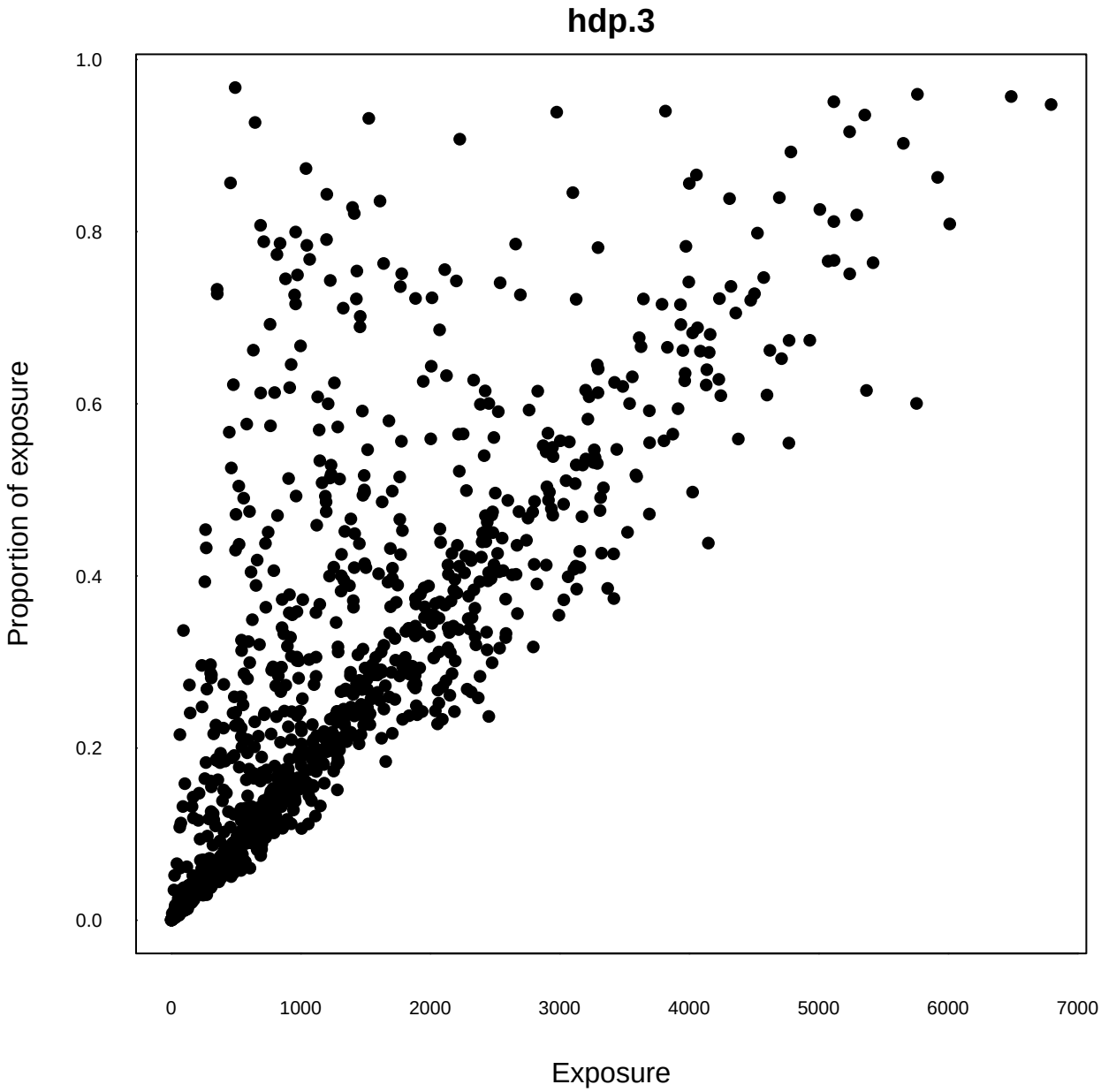
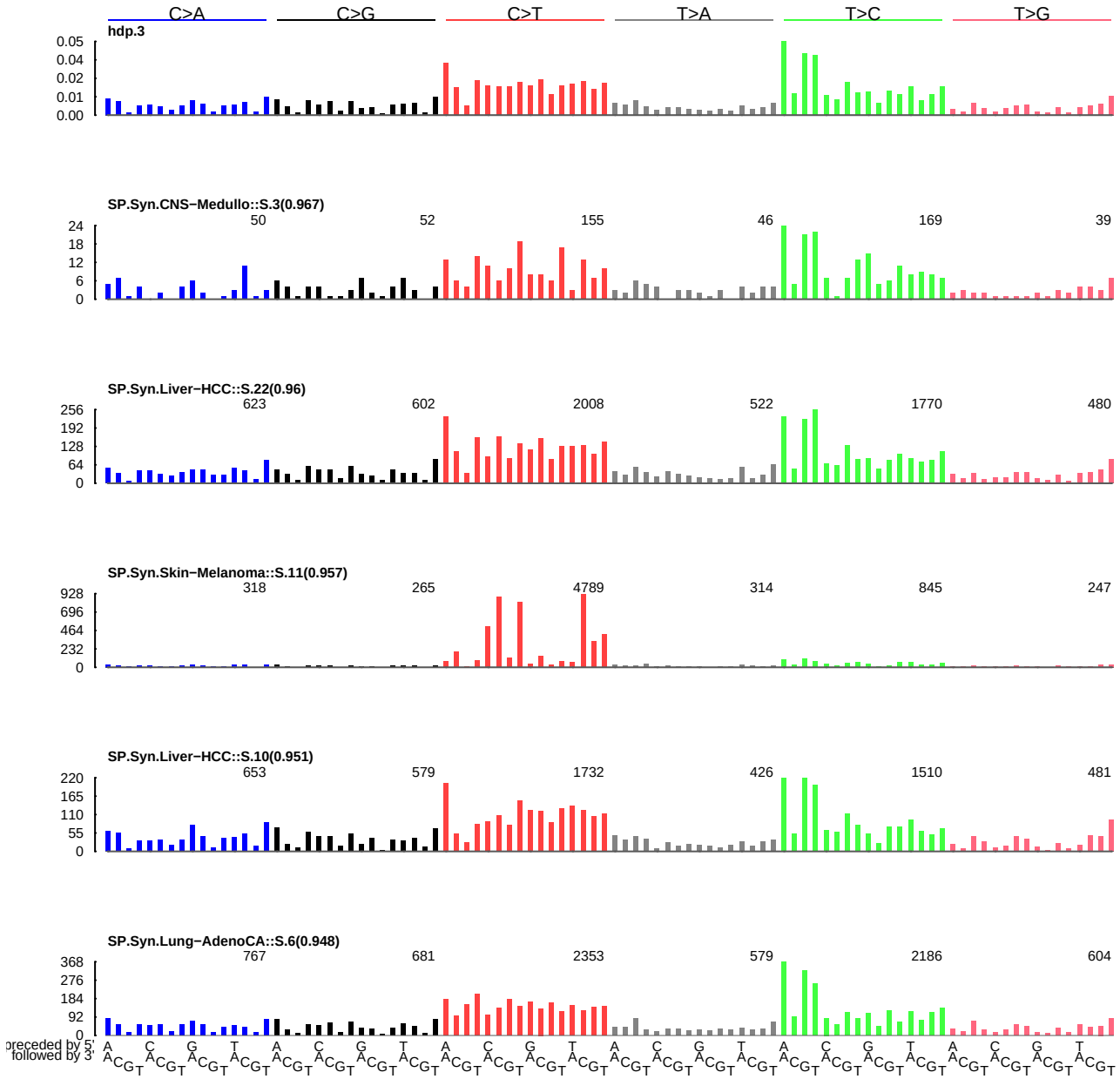

hdp.1
Proportion of exposure
1.0
0.8
0.6
0.4
0.2
0.0
0
1000
2000
3000
4000
5000
6000
Exposure

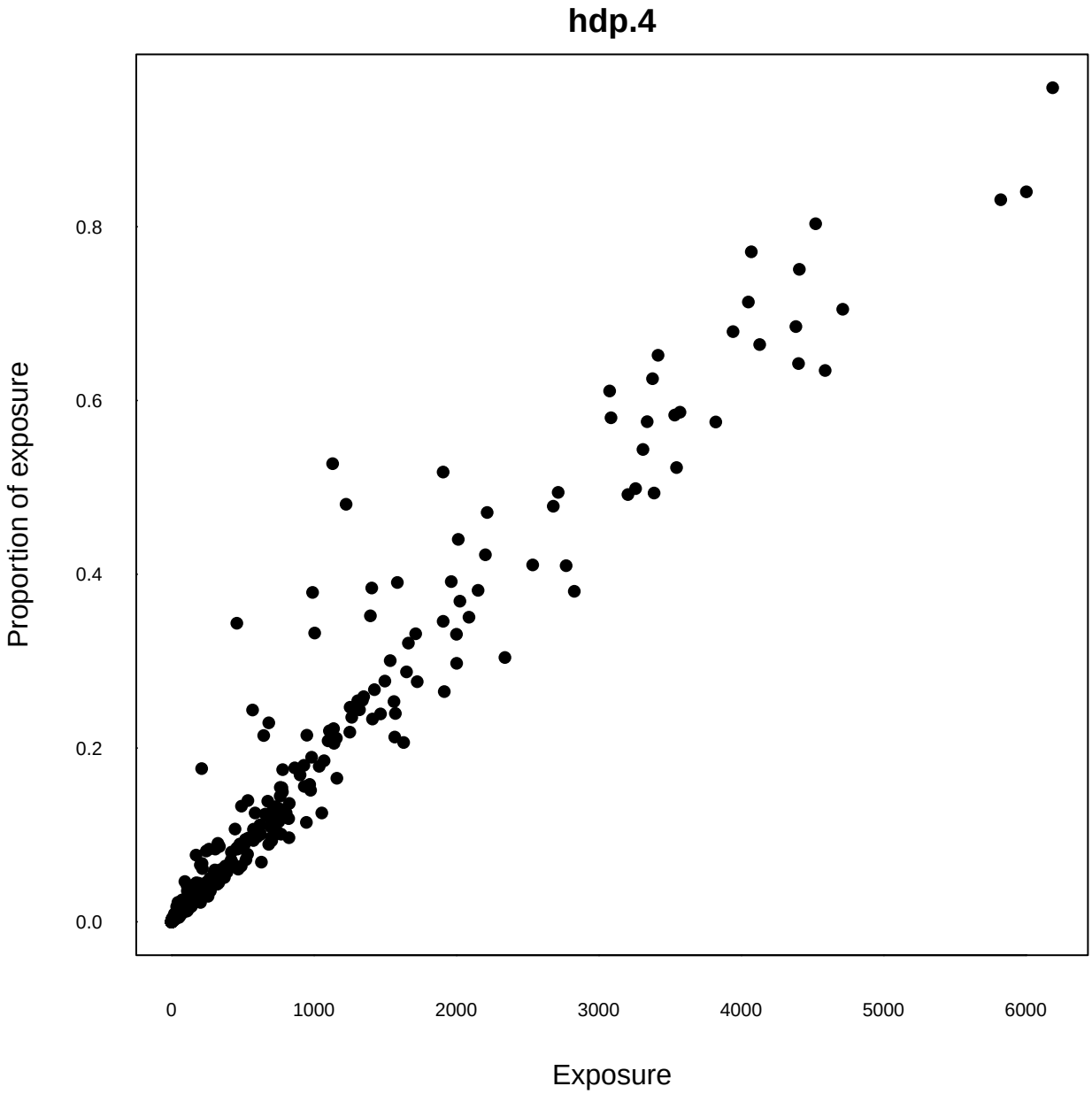

C>A
C>G
C>T
T>A
T>C
T>G
hdp.1
0.33
0.25
0.17
0.08
0.00
SP.Syn.ColoRect−AdenoCA::S.33(0.999)
39
12
2203
33
59
5
912
684
456
228
0
SP.Syn.Ovary−AdenoCA::S.22(0.997)
5
2
691
9
18
2
204
153
102
51
0
SP.Syn.CNS−Medullo::S.35(0.945)
22
18
508
15
44
5
144
108
72
36
0
SP.Syn.Prost−AdenoCA::S.49(0.927)
12
13
399
12
51
14
180
135
90
45
0
SP.Syn.CNS−Medullo::S.18(0.879)
17
13
506
23
46
7
172
129
86
43
0
preceded by 5'
followed by 3'

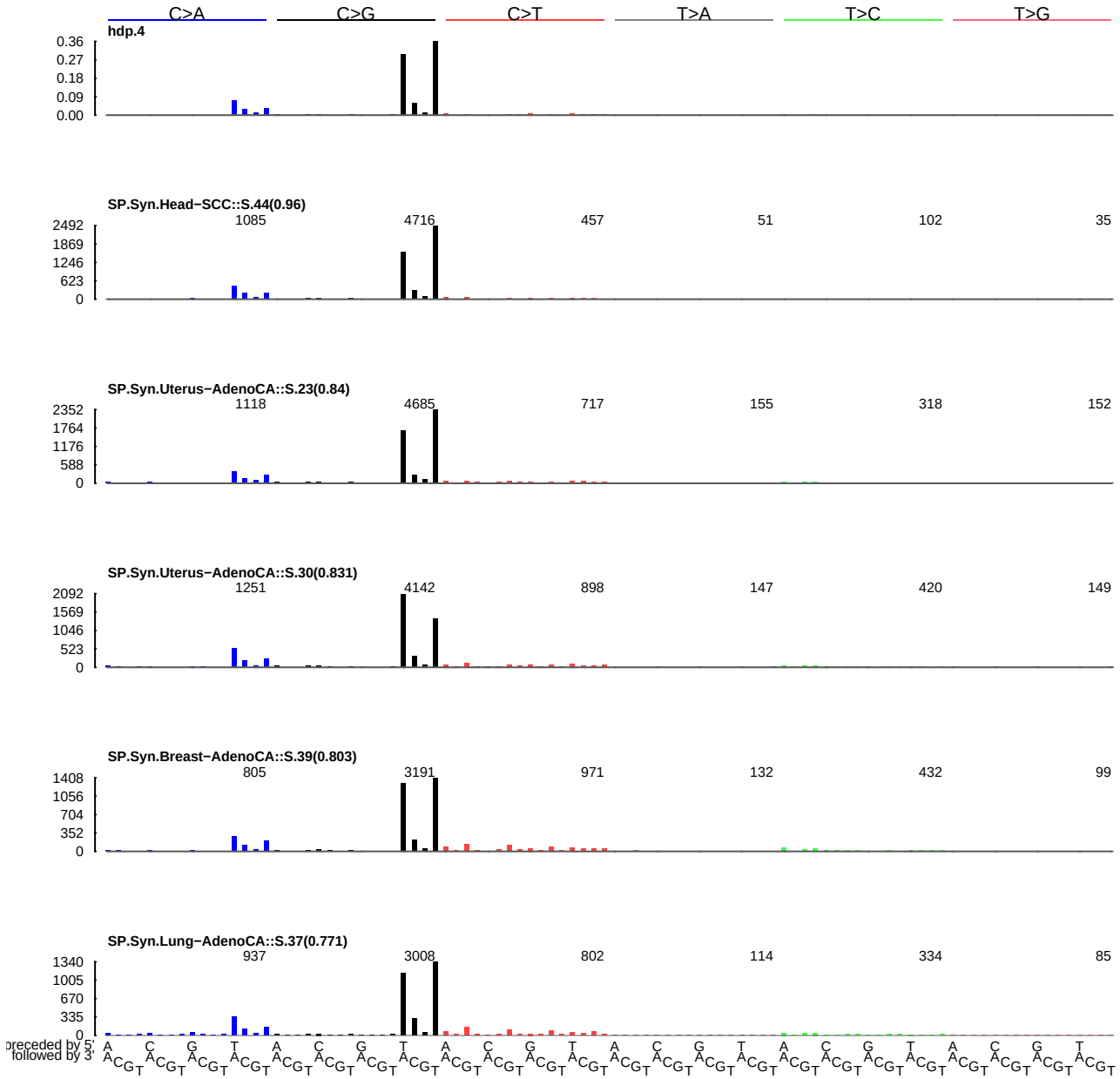

hdp.2
Proportion of exposure
1.0
0.8
0.6
0.4
0.2
0.0
0
2000
4000
6000
8000
10000
Exposure

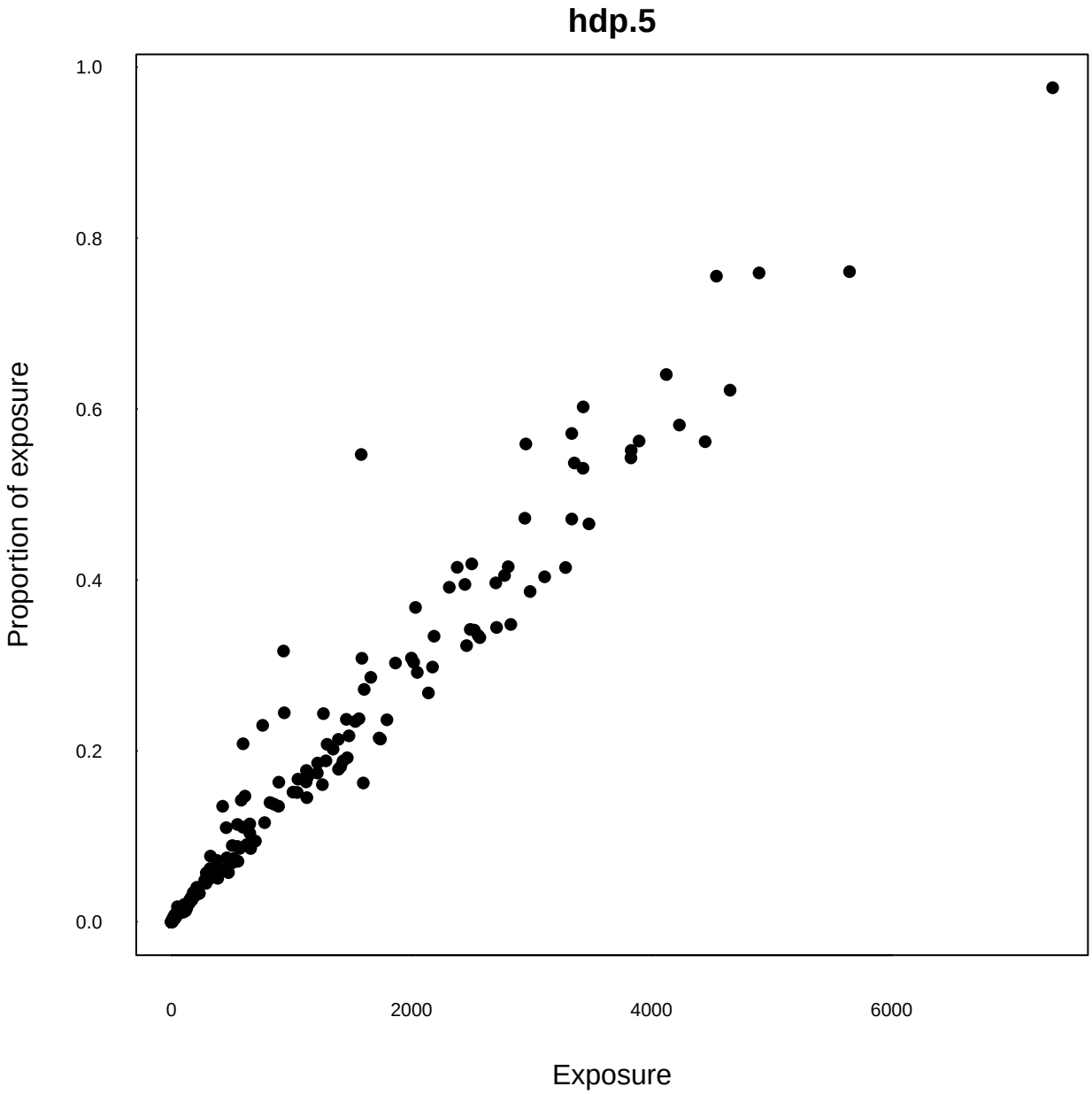

C>A
C>G
C>T
T>A
T>C
T>G
hdp.2
0.55
0.41
0.27
0.14
0.00
SP.Syn.Skin−Melanoma::S.35(0.985)
67
28
10183
136
153
54
3632
2724
1816
908
0
SP.Syn.Skin−Melanoma::S.31(0.979)
52
17
11201
125
128
46
3468
2601
1734
867
0
SP.Syn.Skin−Melanoma::S.5(0.977)
56
20
10487
123
179
51
3064
2298
1532
766
0
SP.Syn.Skin−Melanoma::S.19(0.924)
86
40
8570
133
144
72
2288
1716
1144
572
0
SP.Syn.Skin−Melanoma::S.22(0.923)
41
12
8938
146
96
40
2848
2136
1424
712
0
preceded by 5'
followed by 3'

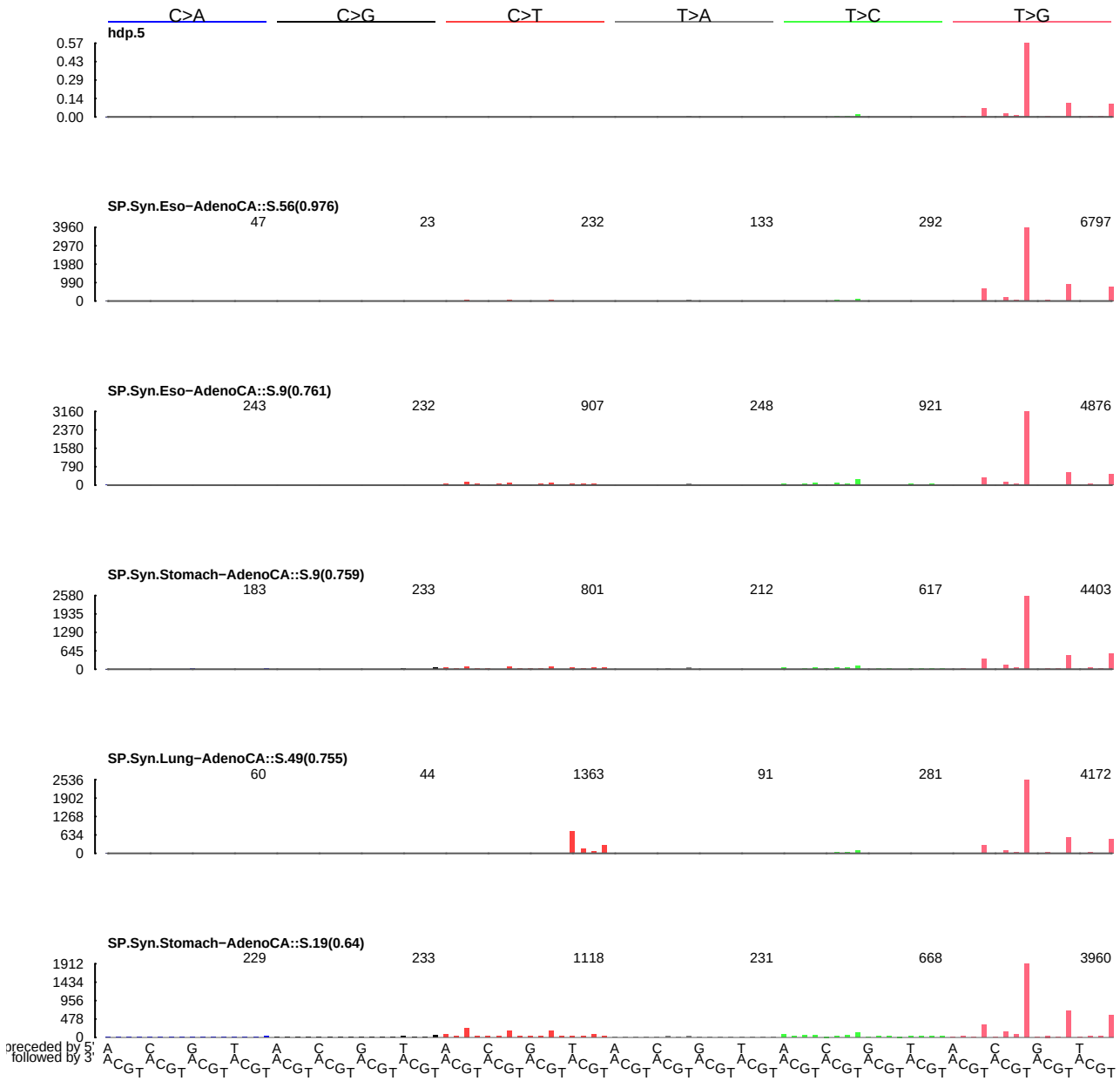

hdp.3
Proportion of exposure
1.0
0.8
0.6
0.4
0.2
0.0
0
1000
2000
3000
4000
5000
6000
7000
Exposure

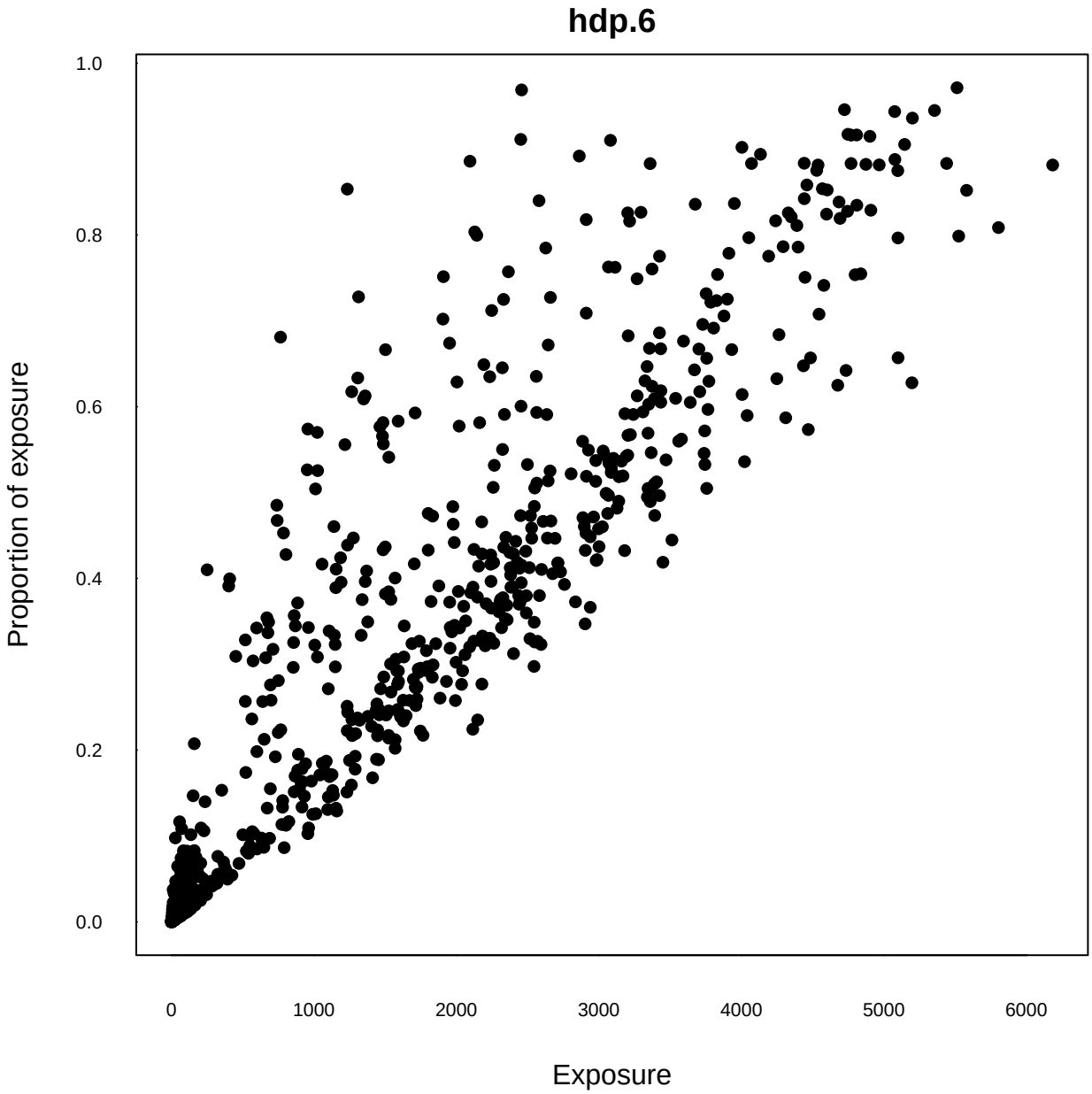

C>A
C>G
C>T
T>A
T>C
T>G
hdp.3
0.05
0.04
0.02
0.01
0.00
SP.Syn.CNS−Medullo::S.3(0.967)
50
52
155
46
169
39
24
18
12
6
0
SP.Syn.Liver−HCC::S.22(0.96)
623
602
2008
522
1770
480
256
192
128
64
0
SP.Syn.Skin−Melanoma::S.11(0.957)
318
265
4789
314
845
247
928
696
464
232
0
SP.Syn.Liver−HCC::S.10(0.951)
653
579
1732
426
1510
481
220
165
110
55
0
SP.Syn.Lung−AdenoCA::S.6(0.948)
767
681
2353
579
2186
604
368
276
184
92
0
preceded by 5'
followed by 3'
A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T

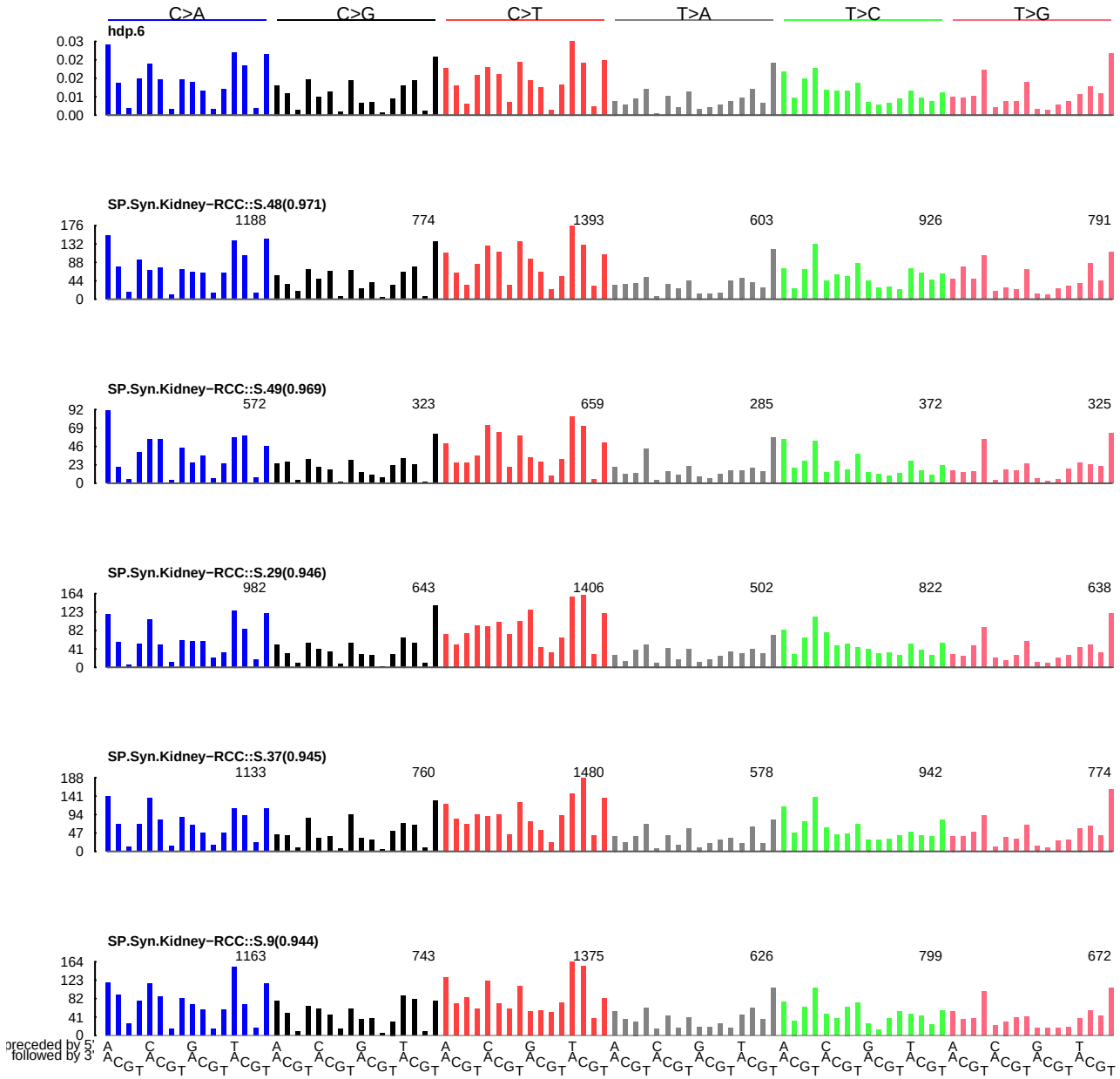

hdp.4
Proportion of exposure
0.0
0.2
0.4
0.6
0.8
0
1000
2000
3000
4000
5000
6000
Exposure

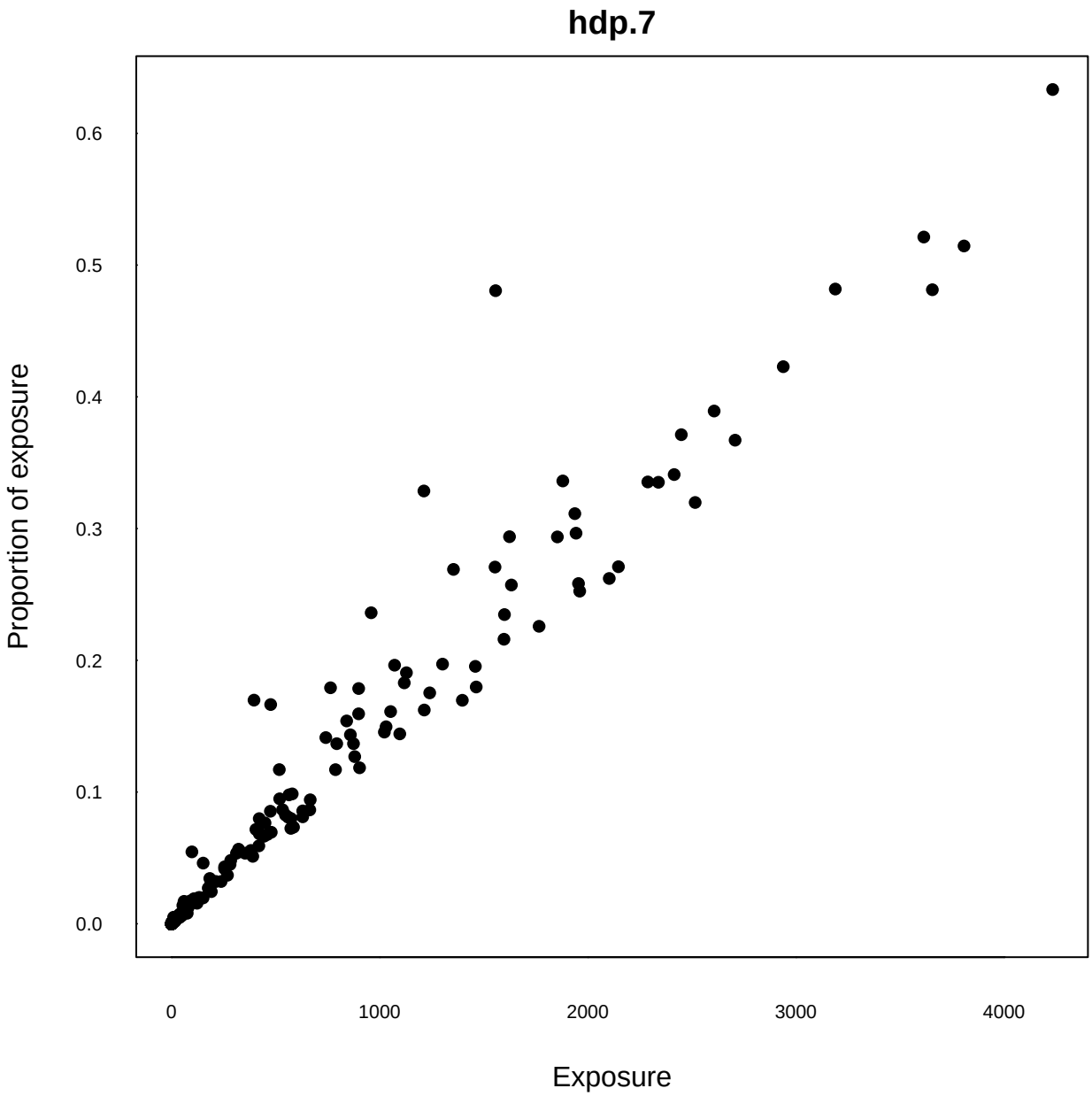

C>A
C>G
C>T
T>A
T>C
T>G
hdp.4
0.36
0.27
0.18
0.09
0.00
SP.Syn.Head−SCC::S.44(0.96)
1085
4716
457
51
102
35
2492
1869
1246
623
0
SP.Syn.Uterus−AdenoCA::S.23(0.84)
1118
4685
717
155
318
152
2352
1764
1176
588
0
SP.Syn.Uterus−AdenoCA::S.30(0.831)
1251
4142
898
147
420
149
2092
1569
1046
523
0
SP.Syn.Breast−AdenoCA::S.39(0.803)
805
3191
971
132
432
99
1408
1056
704
352
0
SP.Syn.Lung−AdenoCA::S.37(0.771)
937
3008
802
114
334
85
1340
1005
670
335
0
preceded by 5'
followed by 3'
A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T

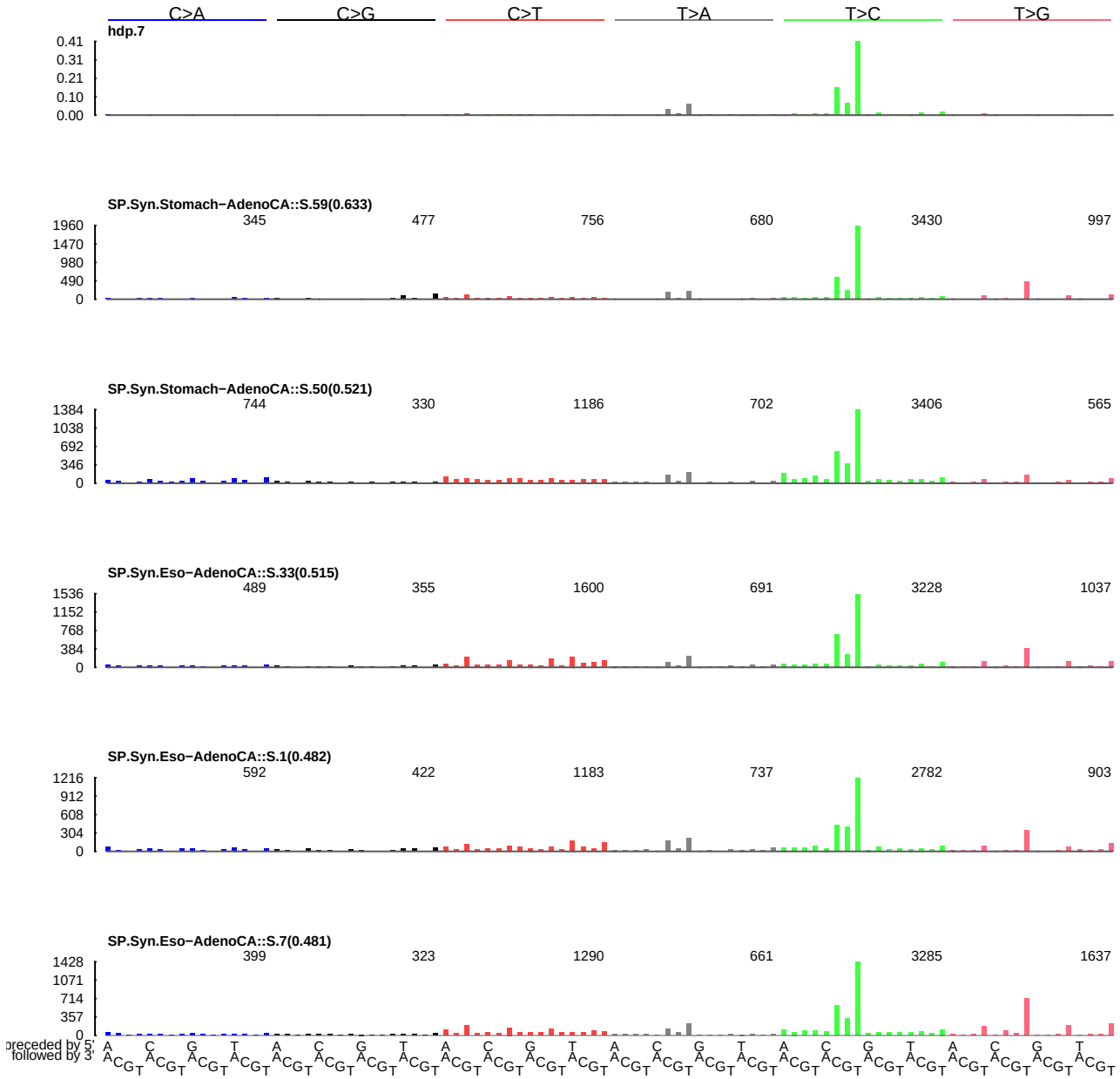

hdp.5
Proportion of exposure
1.0
0.8
0.6
0.4
0.2
0.0
0
2000
4000
6000
Exposure

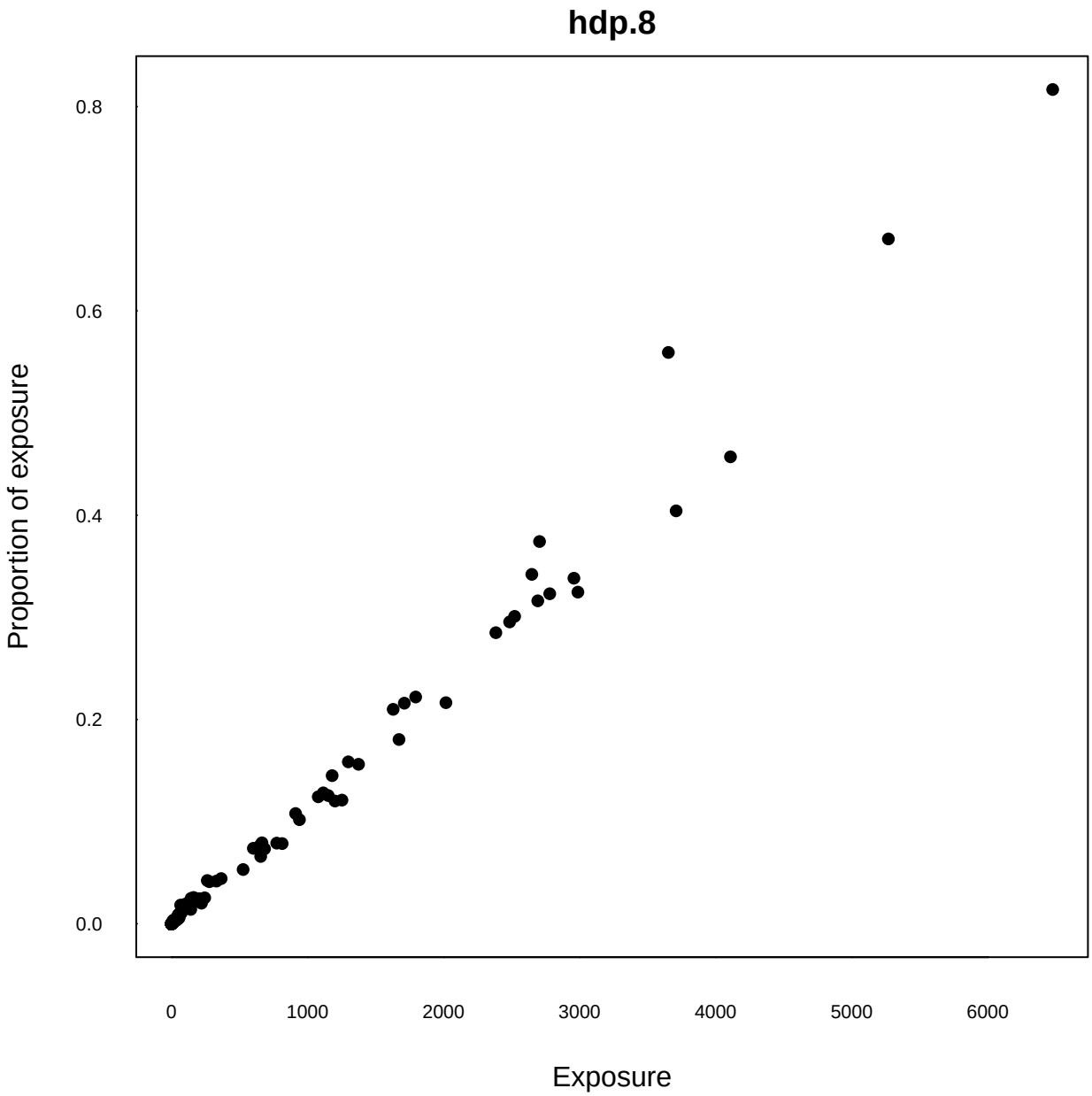

C>A
C>G
C>T
T>A
T>C
T>G
hdp.5
0.57
0.43
0.29
0.14
0.00
SP.Syn.Eso−AdenoCA::S.56(0.976)
47
23
232
133
292
6797
3960
2970
1980
990
0
SP.Syn.Eso−AdenoCA::S.9(0.761)
243
232
907
248
921
4876
3160
2370
1580
790
0
SP.Syn.Stomach−AdenoCA::S.9(0.759)
183
233
801
212
617
4403
2580
1935
1290
645
0
SP.Syn.Lung−AdenoCA::S.49(0.755)
60
44
1363
91
281
4172
2536
1902
1268
634
0
SP.Syn.Stomach−AdenoCA::S.19(0.64)
229
233
1118
231
668
3960
1912
1434
956
478
0
preceded by 5'
followed by 3'

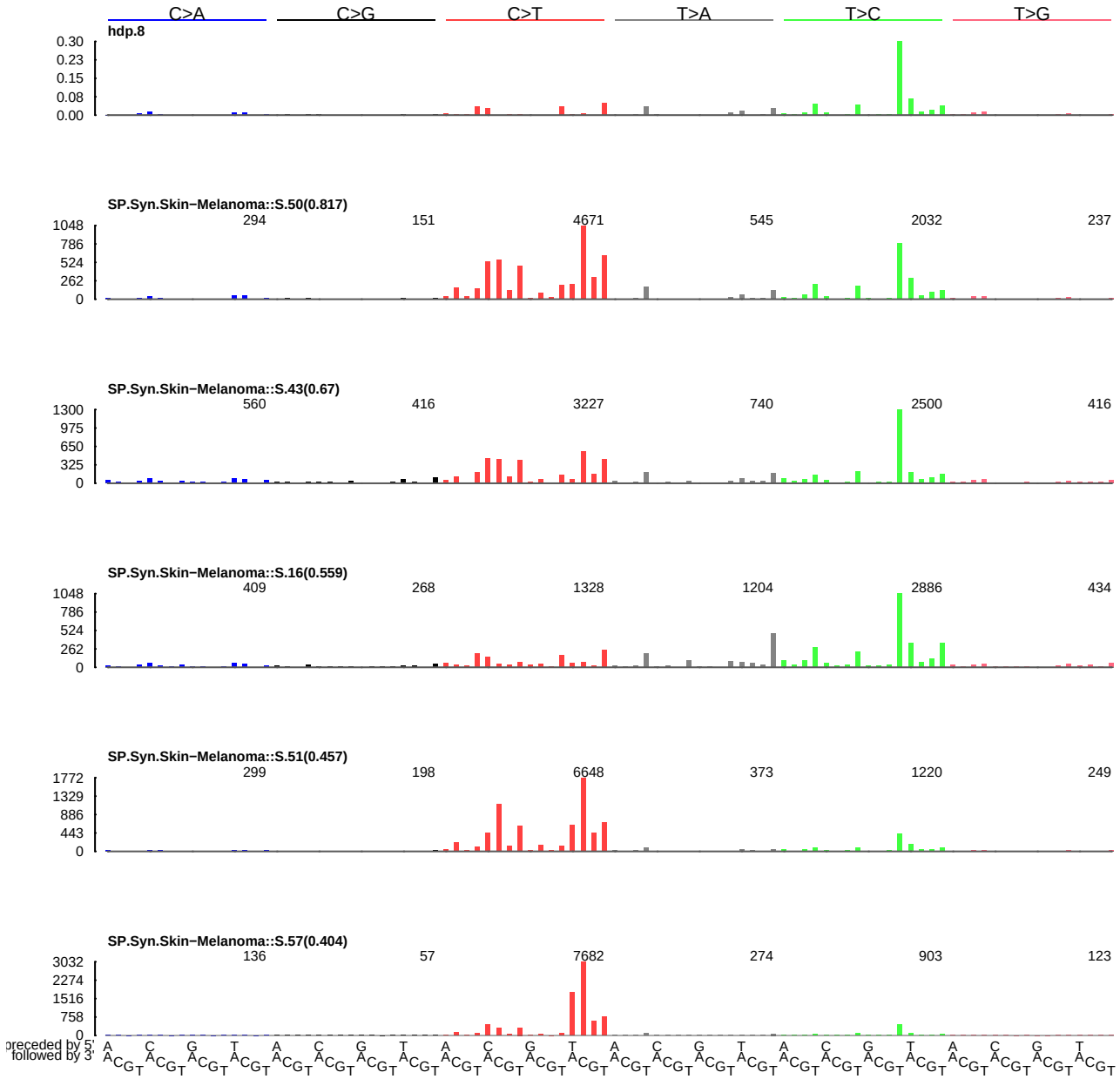

hdp.6
Proportion of exposure
1.0
0.8
0.6
0.4
0.2
0.0
0
1000
2000
3000
4000
5000
6000
Exposure

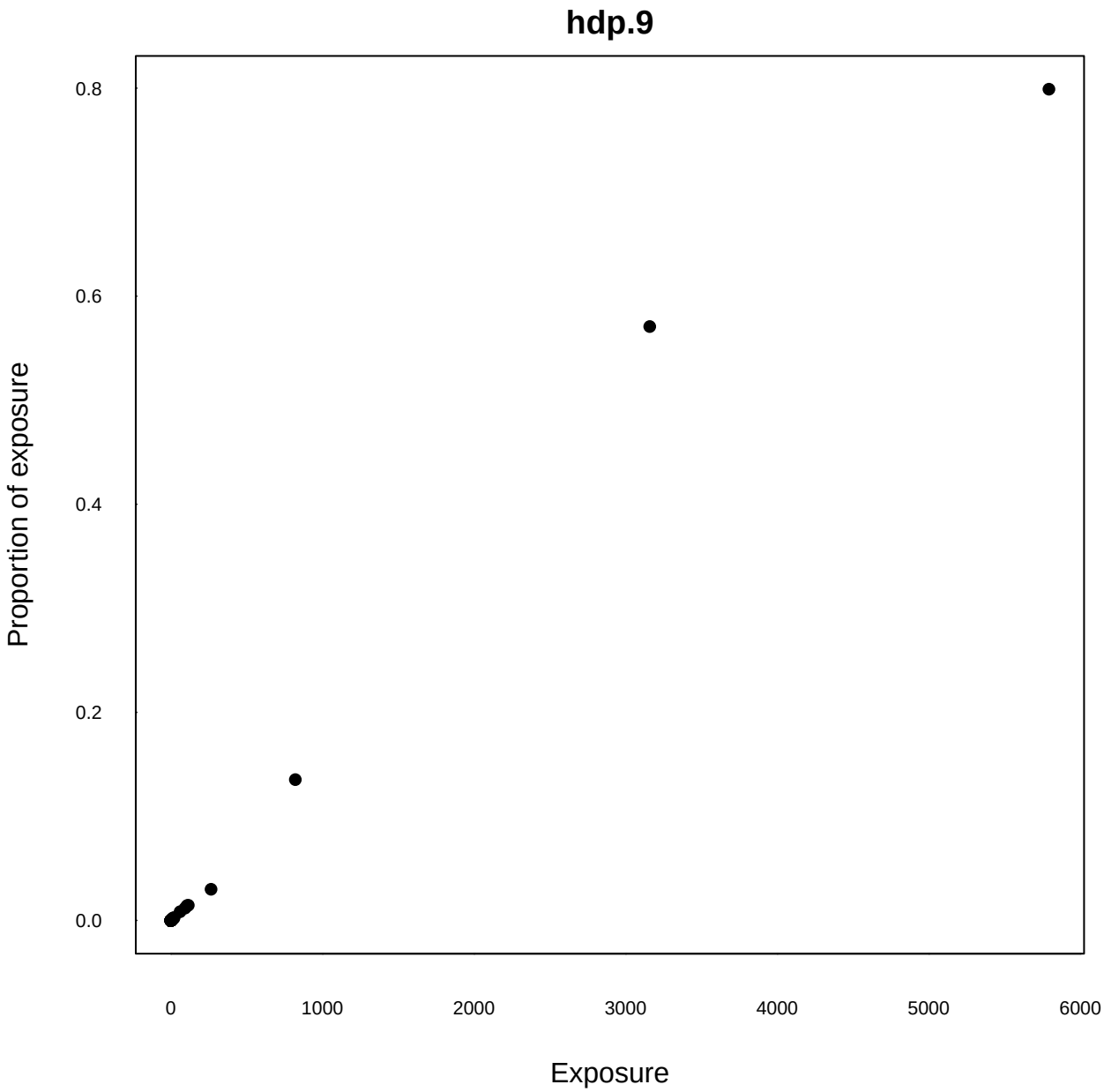

C>A
C>G
C>T
T>A
T>C
T>G
hdp.6
0.03
0.02
0.02
0.01
0.00
SP.Syn.Kidney−RCC::S.48(0.971)
1188
774
1393
603
926
791
176
132
88
44
0
SP.Syn.Kidney−RCC::S.49(0.969)
572
323
659
285
372
325
92
69
46
23
0
SP.Syn.Kidney−RCC::S.29(0.946)
982
643
1406
502
822
638
164
123
82
41
0
SP.Syn.Kidney−RCC::S.37(0.945)
1133
760
1480
578
942
774
188
141
94
47
0
SP.Syn.Kidney−RCC::S.9(0.944)
1163
743
1375
626
799
672
164
123
82
41
0
preceded by 5'
followed by 3'
A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T

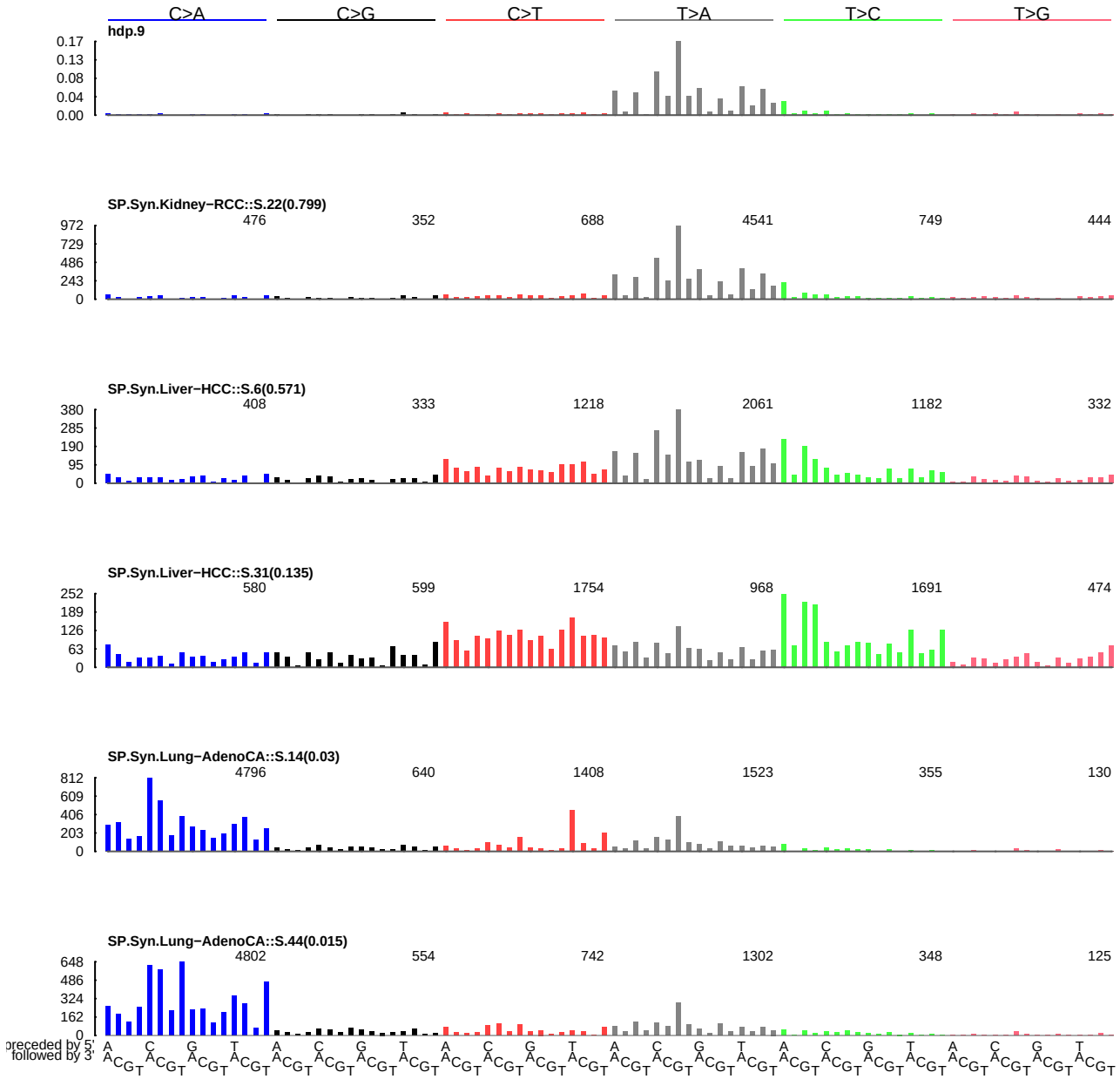

hdp.7
Proportion of exposure
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0
1000
2000
3000
4000
Exposure

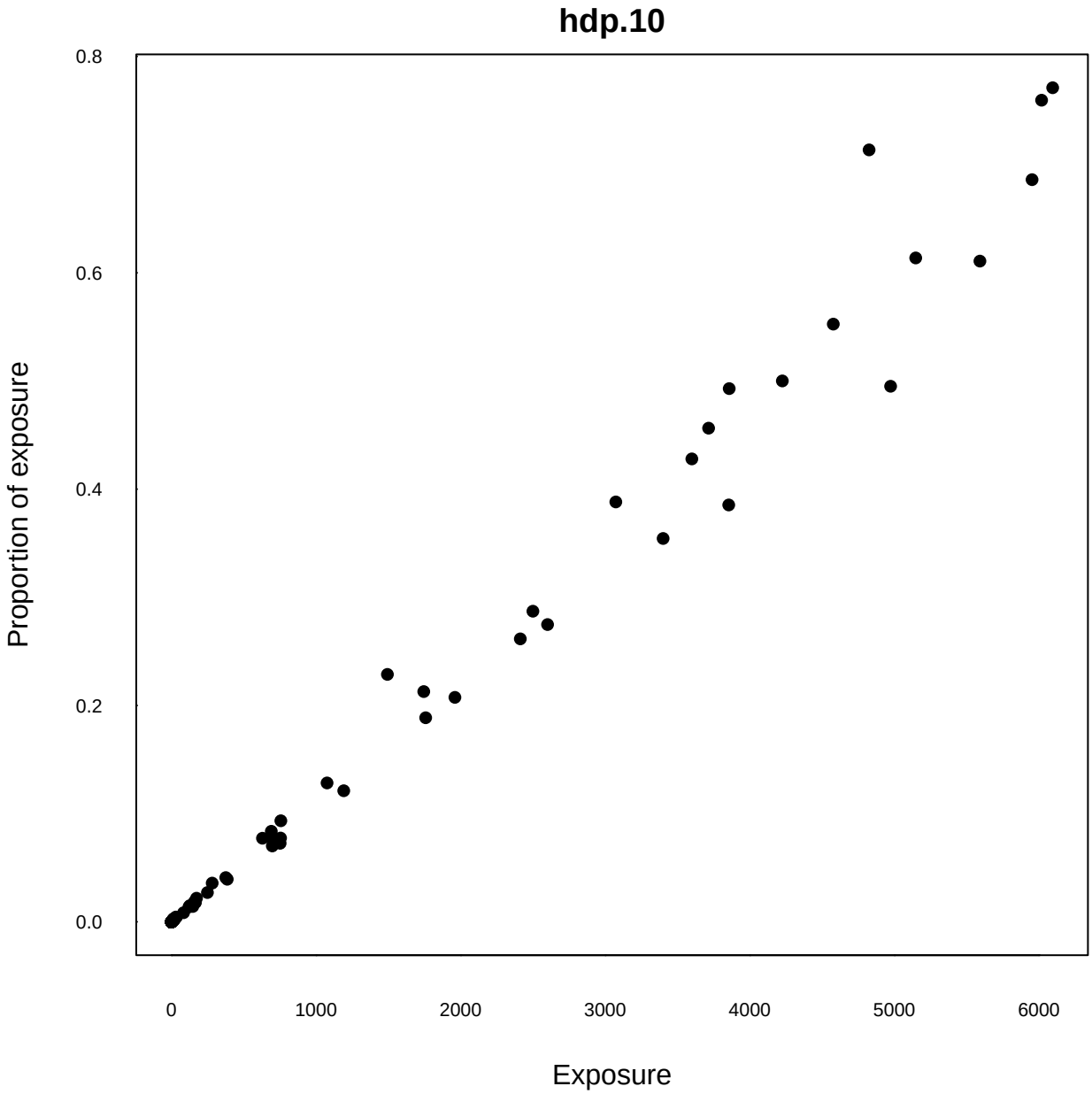

C>A
C>G
C>T
T>A
T>C
T>G
hdp.7
0.41
0.31
0.21
0.10
0.00
SP.Syn.Stomach−AdenoCA::S.59(0.633)
345
477
756
680
3430
997
1960
1470
980
490
0
SP.Syn.Stomach−AdenoCA::S.50(0.521)
744
330
1186
702
3406
565
1384
1038
692
346
0
SP.Syn.Eso−AdenoCA::S.33(0.515)
489
355
1600
691
3228
1037
1536
1152
768
384
0
SP.Syn.Eso−AdenoCA::S.1(0.482)
592
422
1183
737
2782
903
1216
912
608
304
0
SP.Syn.Eso−AdenoCA::S.7(0.481)
399
323
1290
661
3285
1637
1428
1071
714
357
0
preceded by 5'
followed by 3'

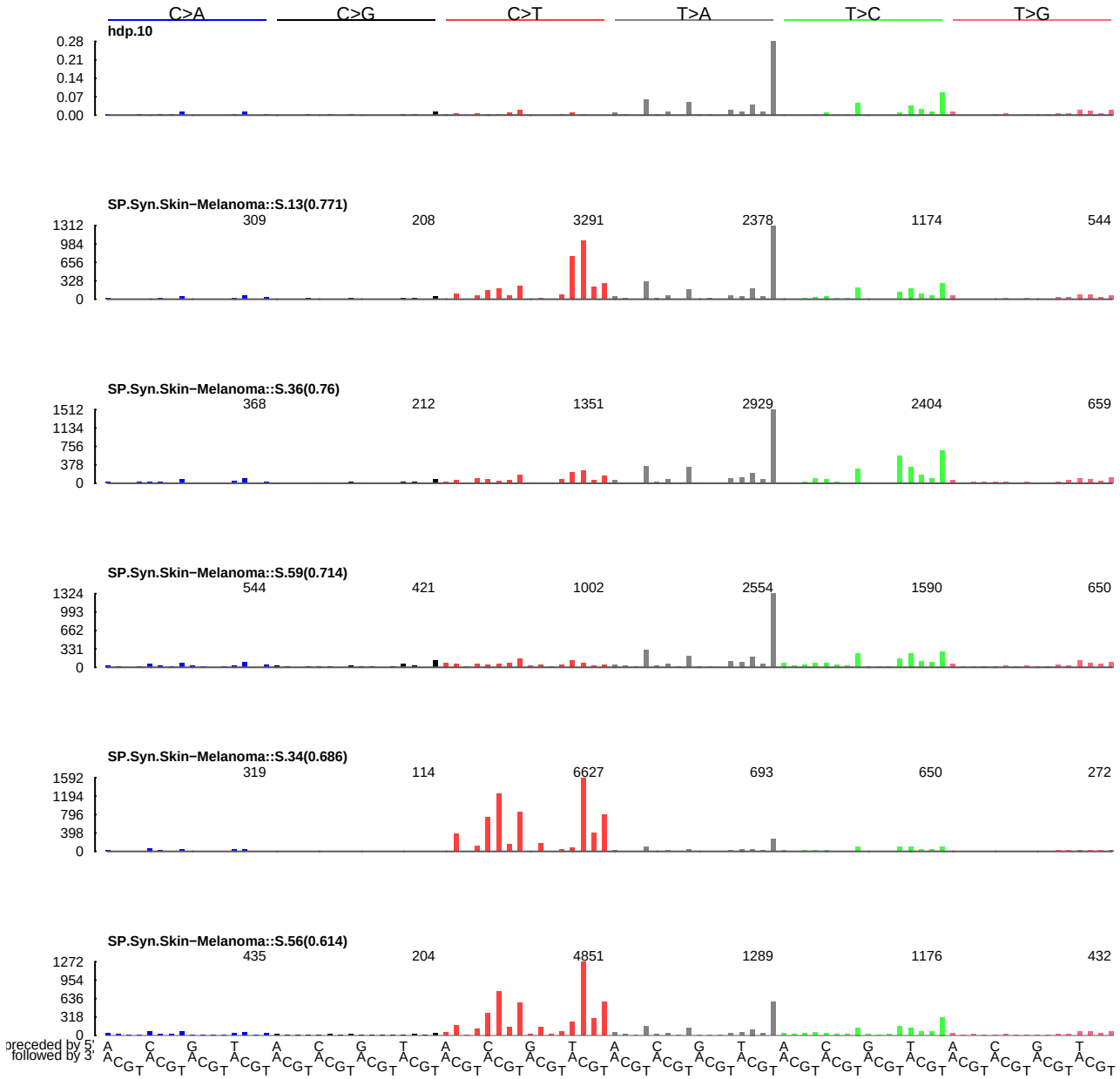

hdp.8
Proportion of exposure
0.0
0.2
0.4
0.6
0.8
0
1000
2000
3000
4000
5000
6000
Exposure

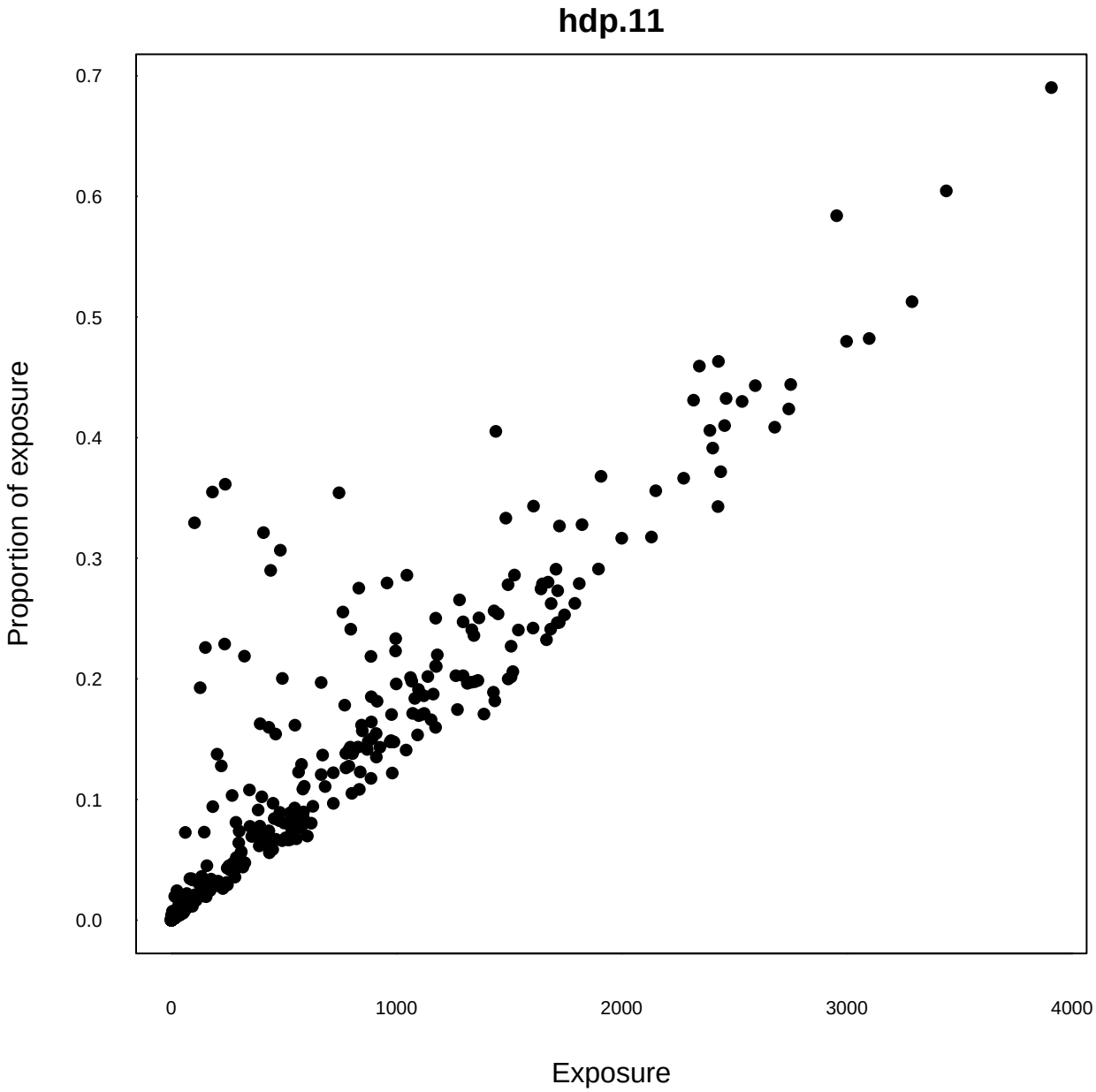

C>A
C>G
C>T
T>A
T>C
T>G
hdp.8
0.30
0.23
0.15
0.08
0.00
SP.Syn.Skin−Melanoma::S.50(0.817)
294
151
4671
545
2032
237
1048
786
524
262
0
SP.Syn.Skin−Melanoma::S.43(0.67)
560
416
3227
740
2500
416
1300
975
650
325
0
SP.Syn.Skin−Melanoma::S.16(0.559)
409
268
1328
1204
2886
434
1048
786
524
262
0
SP.Syn.Skin−Melanoma::S.51(0.457)
299
198
6648
373
1220
249
1772
1329
886
443
0
SP.Syn.Skin−Melanoma::S.57(0.404)
136
57
7682
274
903
123
3032
2274
1516
758
0
preceded by 5'
followed by 3'

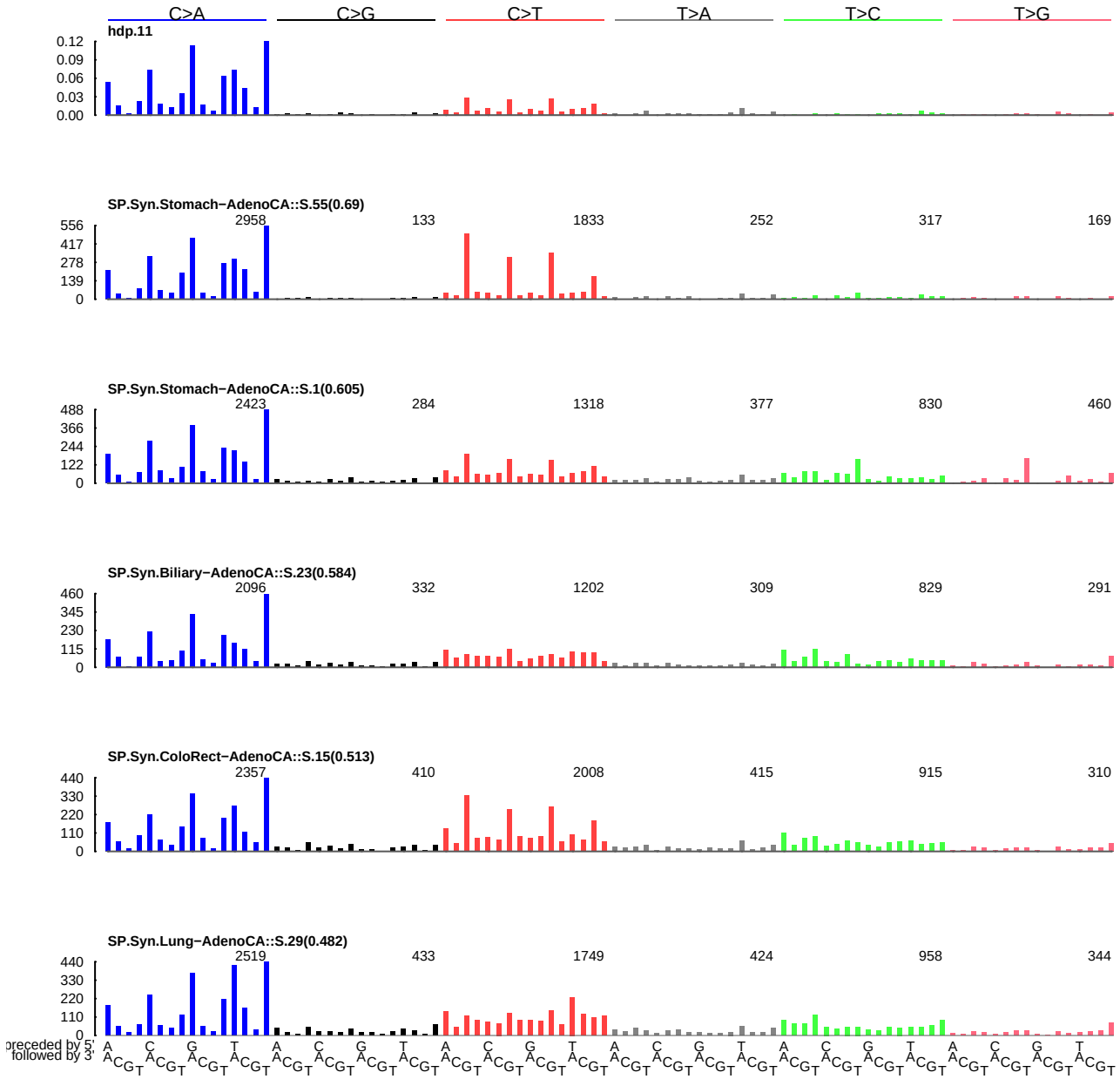

hdp.9
Proportion of exposure
0.0
0.2
0.4
0.6
0.8
0
1000
2000
3000
4000
5000
6000
Exposure

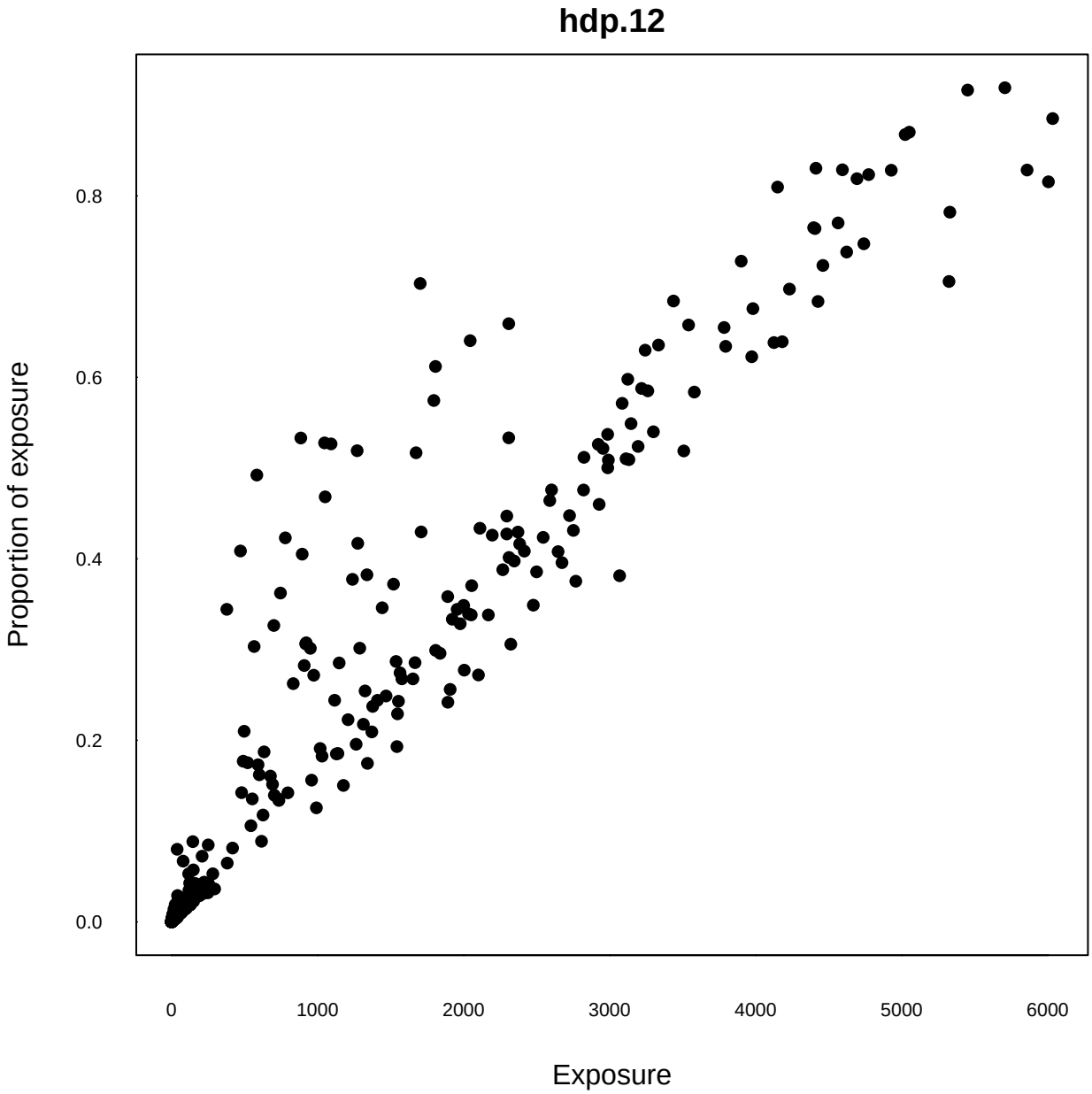

C>A
C>G
C>T
T>A
T>C
T>G
hdp.9
0.17
0.13
0.08
0.04
0.00
SP.Syn.Kidney−RCC::S.22(0.799)
476
352
688
4541
749
444
972
729
486
243
0
SP.Syn.Liver−HCC::S.6(0.571)
408
333
1218
2061
1182
332
380
285
190
95
0
SP.Syn.Liver−HCC::S.31(0.135)
580
599
1754
968
1691
474
252
189
126
63
0
SP.Syn.Lung−AdenoCA::S.14(0.03)
4796
640
1408
1523
355
130
812
609
406
203
0
SP.Syn.Lung−AdenoCA::S.44(0.015)
4802
554
742
1302
348
125
648
486
324
162
0
preceded by 5'
followed by 3'
A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T

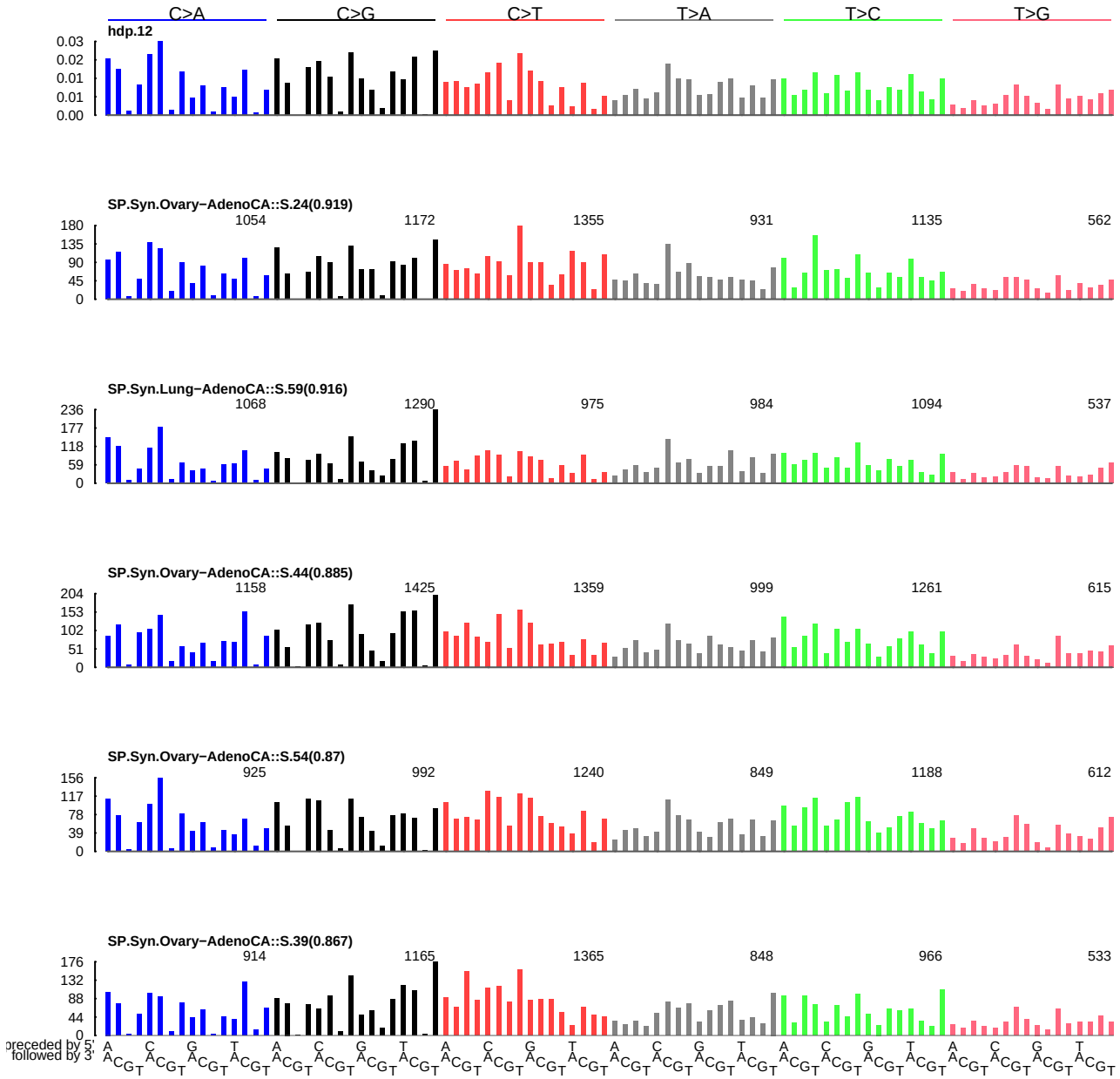

hdp.10
Proportion of exposure
0.0
0.2
0.4
0.6
0.8
0
1000
2000
3000
4000
5000
6000
Exposure

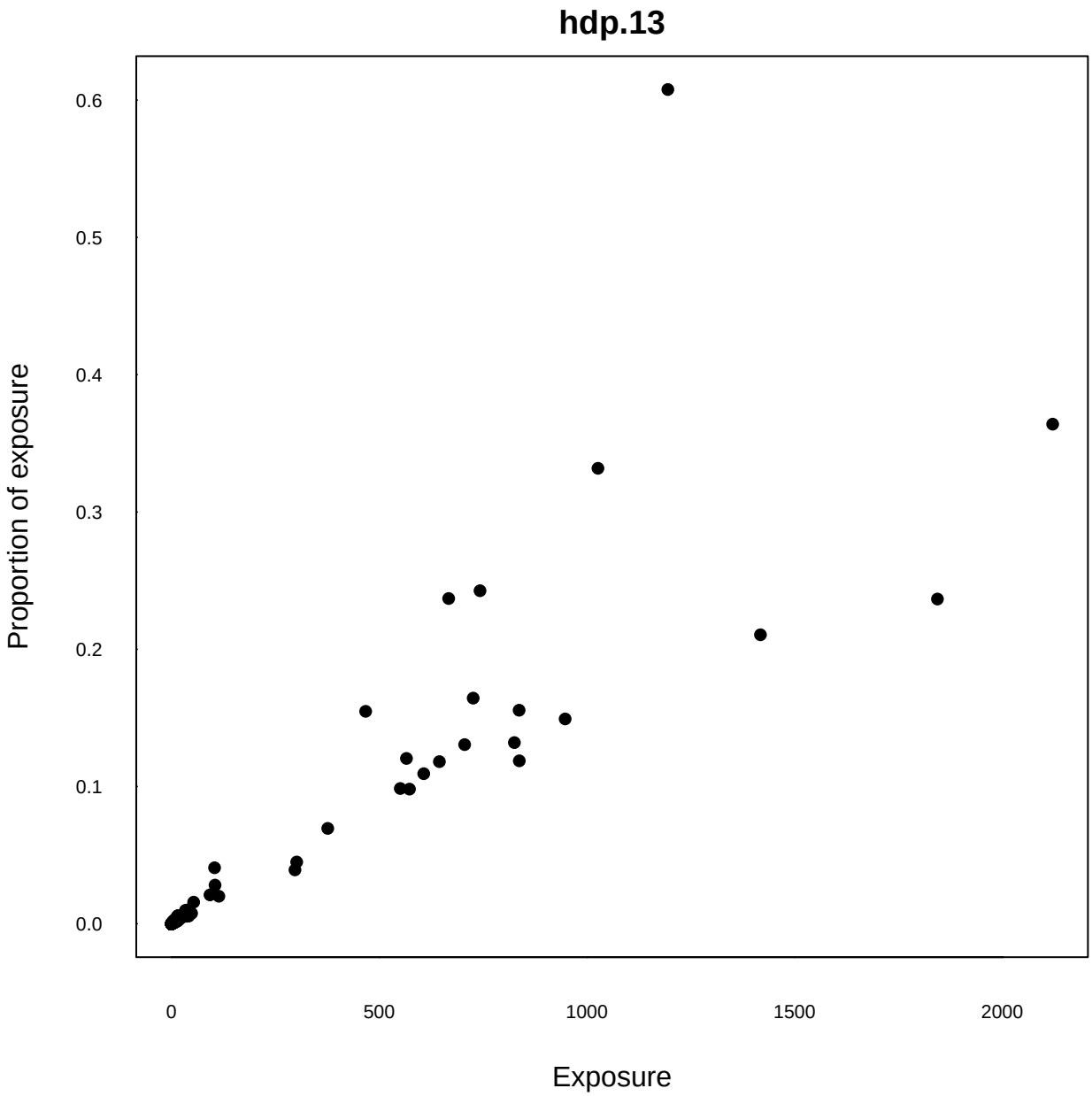

C>A
C>G
C>T
T>A
T>C
T>G
hdp.10
0.28
0.21
0.14
0.07
0.00
SP.Syn.Skin−Melanoma::S.13(0.771)
309
208
3291
2378
1174
544
1312
984
656
328
0
SP.Syn.Skin−Melanoma::S.36(0.76)
368
212
1351
2929
2404
659
1512
1134
756
378
0
SP.Syn.Skin−Melanoma::S.59(0.714)
544
421
1002
2554
1590
650
1324
993
662
331
0
SP.Syn.Skin−Melanoma::S.34(0.686)
319
114
6627
693
650
272
1592
1194
796
398
0
SP.Syn.Skin−Melanoma::S.56(0.614)
435
204
4851
1289
1176
432
1272
954
636
318
0
preceded by 5'
followed by 3'

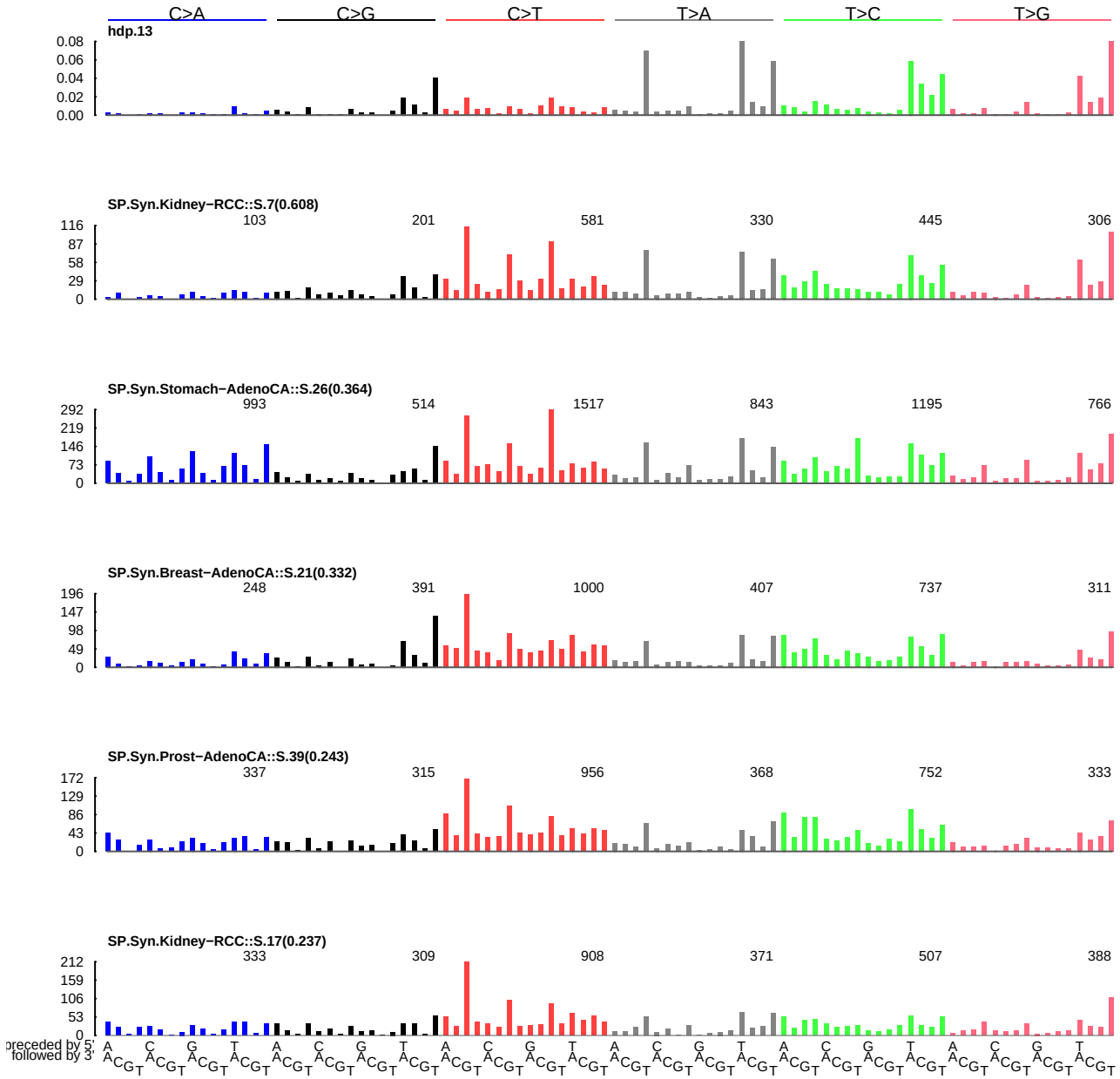

hdp.11
Proportion of exposure
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0
1000
2000
3000
4000
Exposure

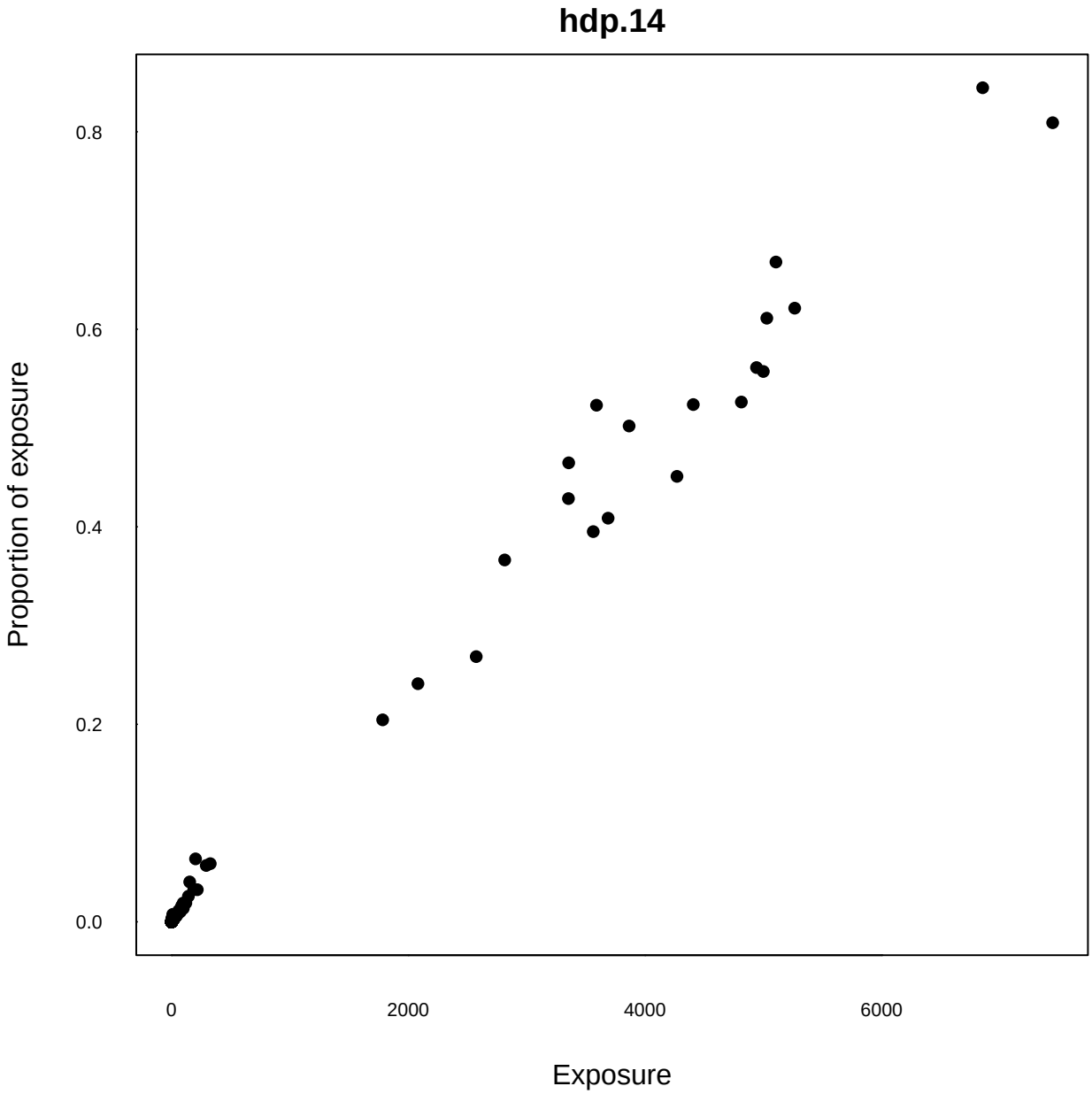

C>A
C>G
C>T
T>A
T>C
T>G
hdp.11
0.12
0.09
0.06
0.03
0.00
SP.Syn.Stomach−AdenoCA::S.55(0.69)
2958
133
1833
252
317
169
556
417
278
139
0
SP.Syn.Stomach−AdenoCA::S.1(0.605)
2423
284
1318
377
830
460
488
366
244
122
0
SP.Syn.Biliary−AdenoCA::S.23(0.584)
2096
332
1202
309
829
291
460
345
230
115
0
SP.Syn.ColoRect−AdenoCA::S.15(0.513)
2357
410
2008
415
915
310
440
330
220
110
0
SP.Syn.Lung−AdenoCA::S.29(0.482)
2519
433
1749
424
958
344
440
330
220
110
0
preceded by 5'
followed by 3'
A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T

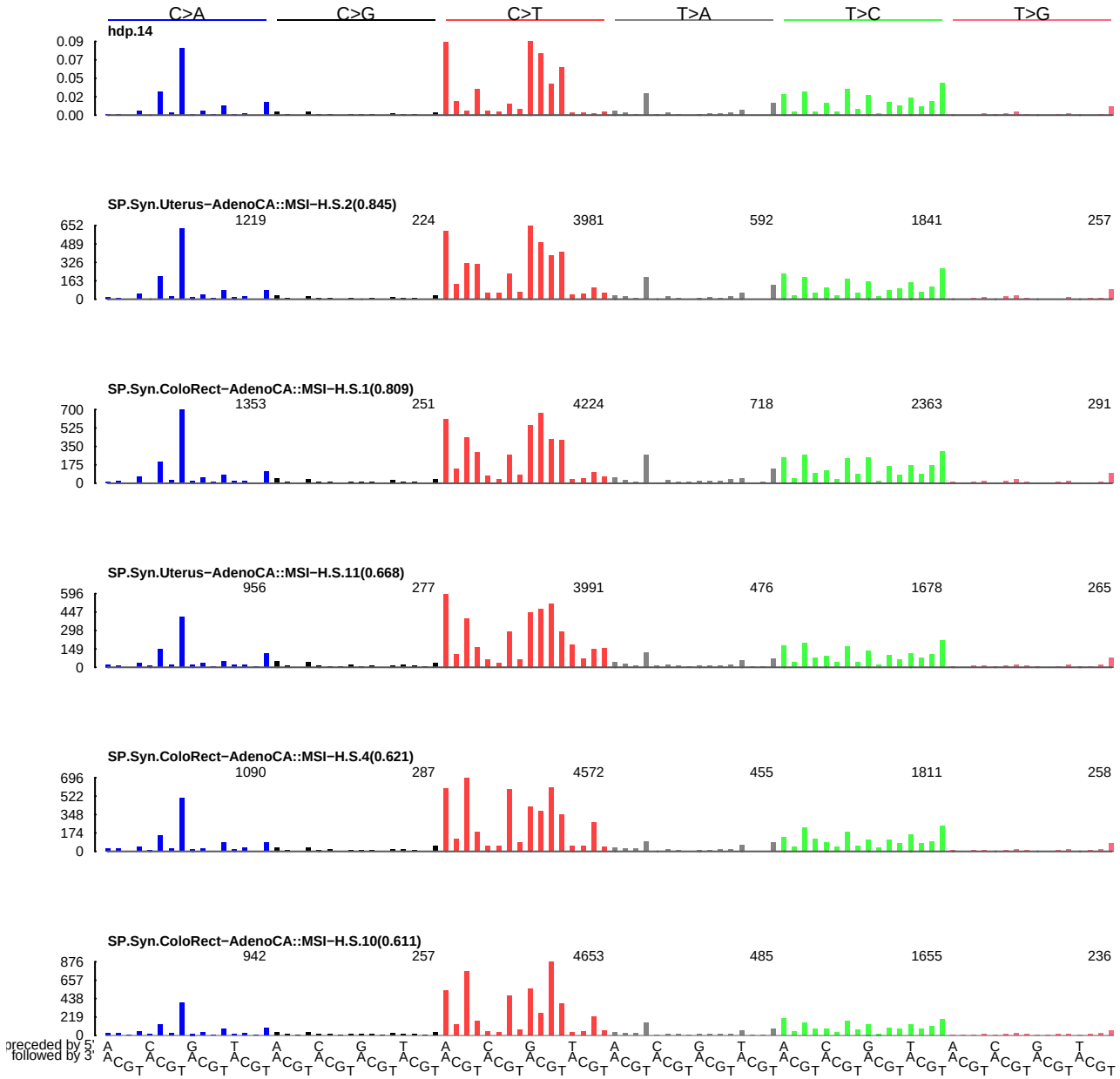

hdp.12
Proportion of exposure
0.0
0.2
0.4
0.6
0.8
0
1000
2000
3000
4000
5000
6000
Exposure

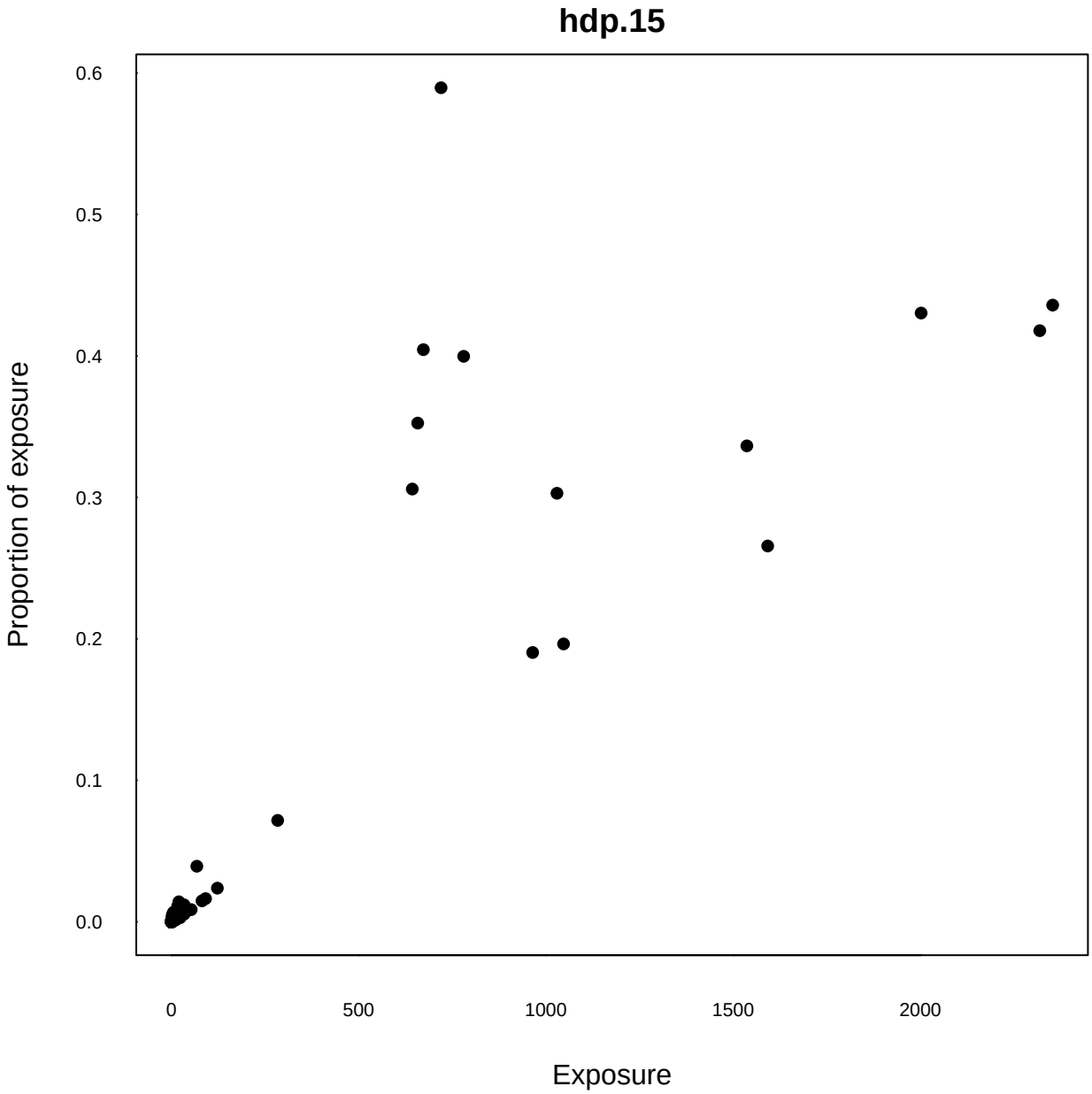

C>A
C>G
C>T
T>A
T>C
T>G
hdp.12
0.03
0.02
0.01
0.01
0.00
SP.Syn.Ovary−AdenoCA::S.24(0.919)
1054
1172
1355
931
1135
562
180
135
90
45
0
SP.Syn.Lung−AdenoCA::S.59(0.916)
1068
1290
975
984
1094
537
236
177
118
59
0
SP.Syn.Ovary−AdenoCA::S.44(0.885)
1158
1425
1359
999
1261
615
204
153
102
51
0
SP.Syn.Ovary−AdenoCA::S.54(0.87)
925
992
1240
849
1188
612
156
117
78
39
0
SP.Syn.Ovary−AdenoCA::S.39(0.867)
914
1165
1365
848
966
533
176
132
88
44
0
preceded by 5'
followed by 3'
A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T

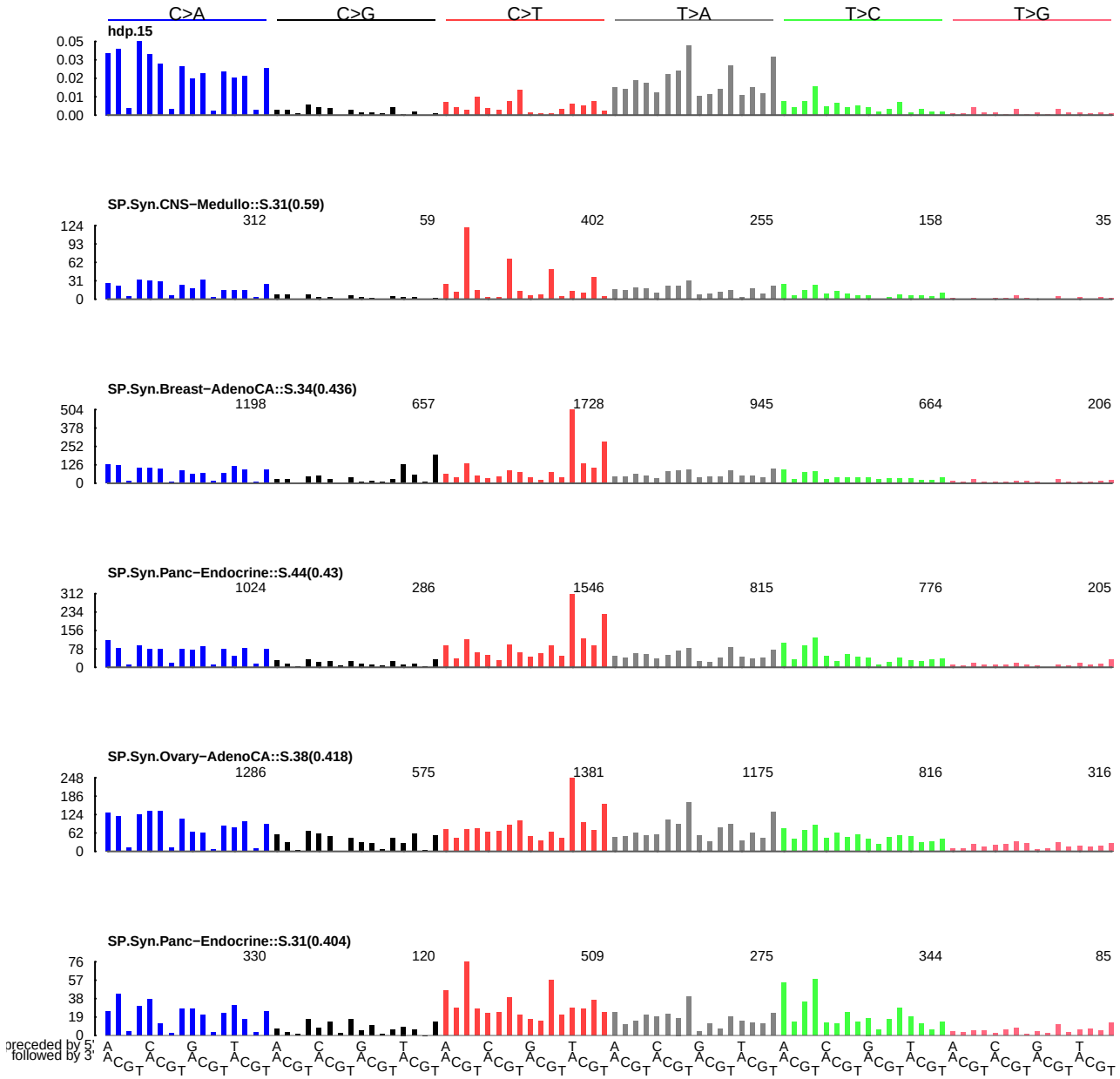

hdp.13
Proportion of exposure
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0
500
1000
1500
2000
Exposure

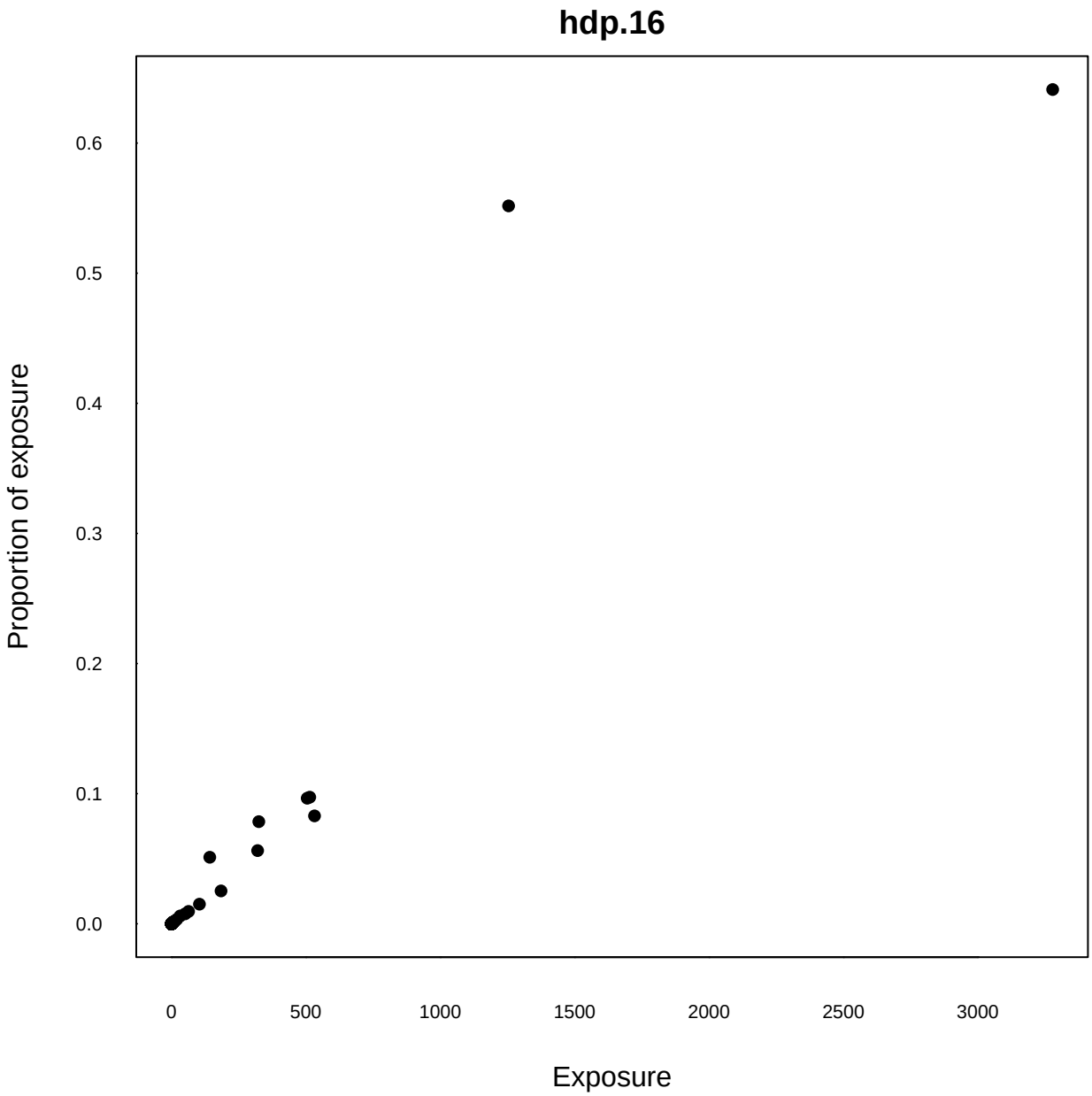

C>A
C>G
C>T
T>A
T>C
T>G
hdp.13
0.08
0.06
0.04
0.02
0.00
SP.Syn.Kidney−RCC::S.7(0.608)
103
201
581
330
445
306
116
87
58
29
0
SP.Syn.Stomach−AdenoCA::S.26(0.364)
993
514
1517
843
1195
766
292
219
146
73
0
SP.Syn.Breast−AdenoCA::S.21(0.332)
248
391
1000
407
737
311
196
147
98
49
0
SP.Syn.Prost−AdenoCA::S.39(0.243)
337
315
956
368
752
333
172
129
86
43
0
SP.Syn.Kidney−RCC::S.17(0.237)
333
309
908
371
507
388
212
159
106
53
0
preceded by 5'
followed by 3'
A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T

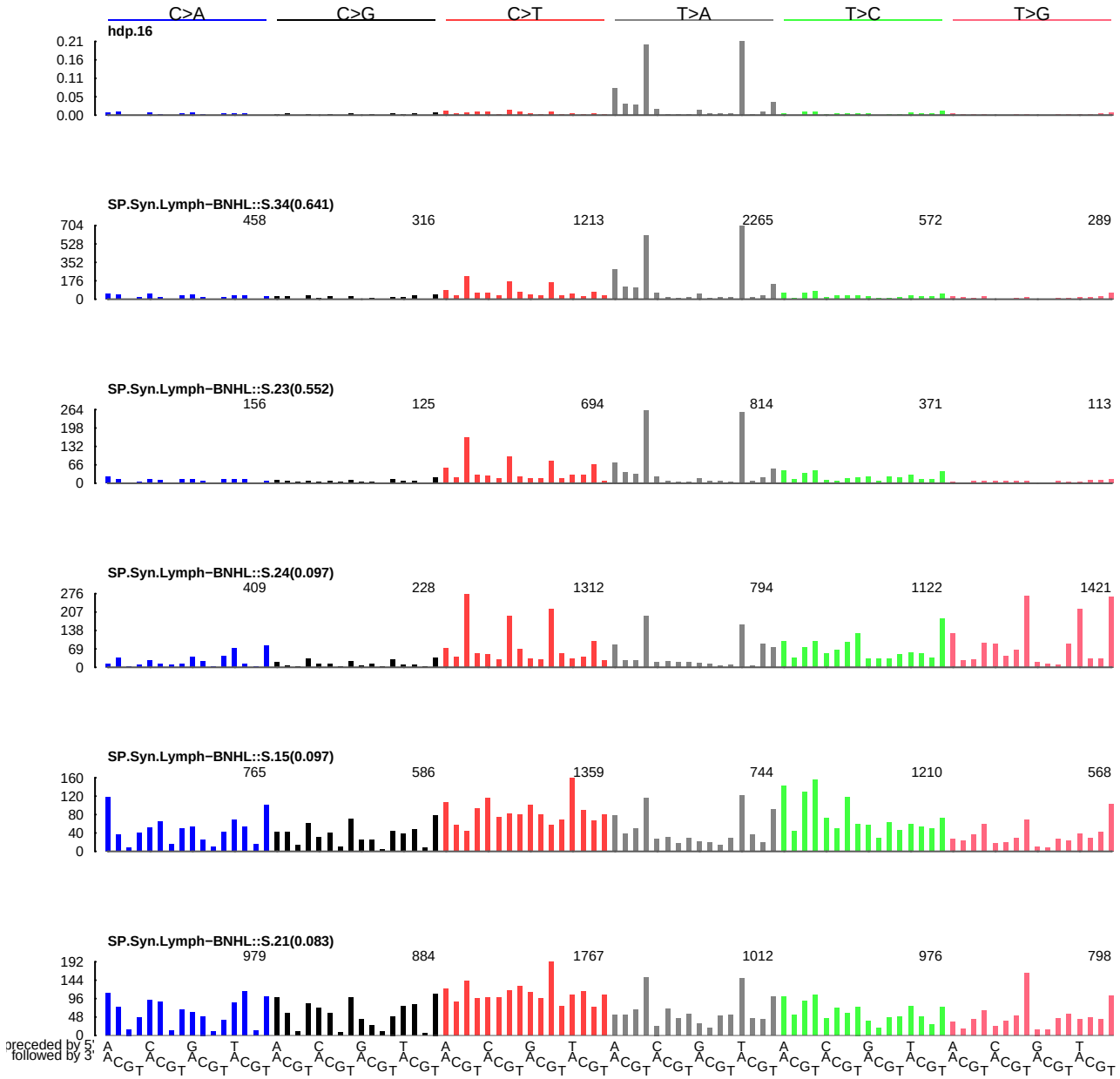

hdp.14
Proportion of exposure
0.0
0.2
0.4
0.6
0.8
0
2000
4000
6000
Exposure

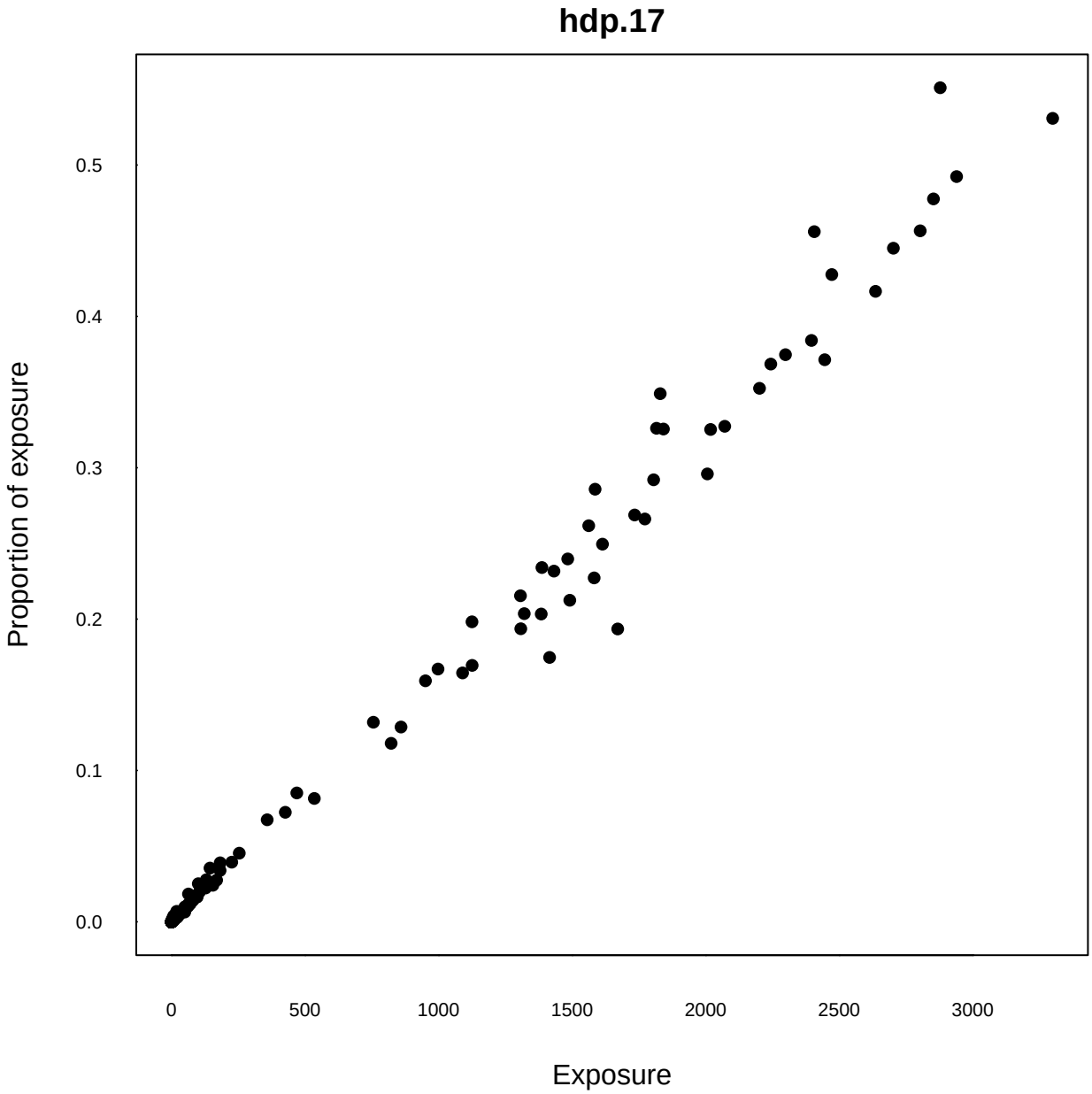

C>A
C>G
C>T
T>A
T>C
T>G
hdp.14
0.09
0.07
0.05
0.02
0.00
SP.Syn.Uterus−AdenoCA::MSI−H.S.2(0.845)
1219
224
3981
592
1841
257
652
489
326
163
0
SP.Syn.ColoRect−AdenoCA::MSI−H.S.1(0.809)
1353
251
4224
718
2363
291
700
525
350
175
0
SP.Syn.Uterus−AdenoCA::MSI−H.S.11(0.668)
956
277
3991
476
1678
265
596
447
298
149
0
SP.Syn.ColoRect−AdenoCA::MSI−H.S.4(0.621)
1090
287
4572
455
1811
258
696
522
348
174
0
SP.Syn.ColoRect−AdenoCA::MSI−H.S.10(0.611)
942
257
4653
485
1655
236
876
657
438
219
0
preceded by 5'
followed by 3'
A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T

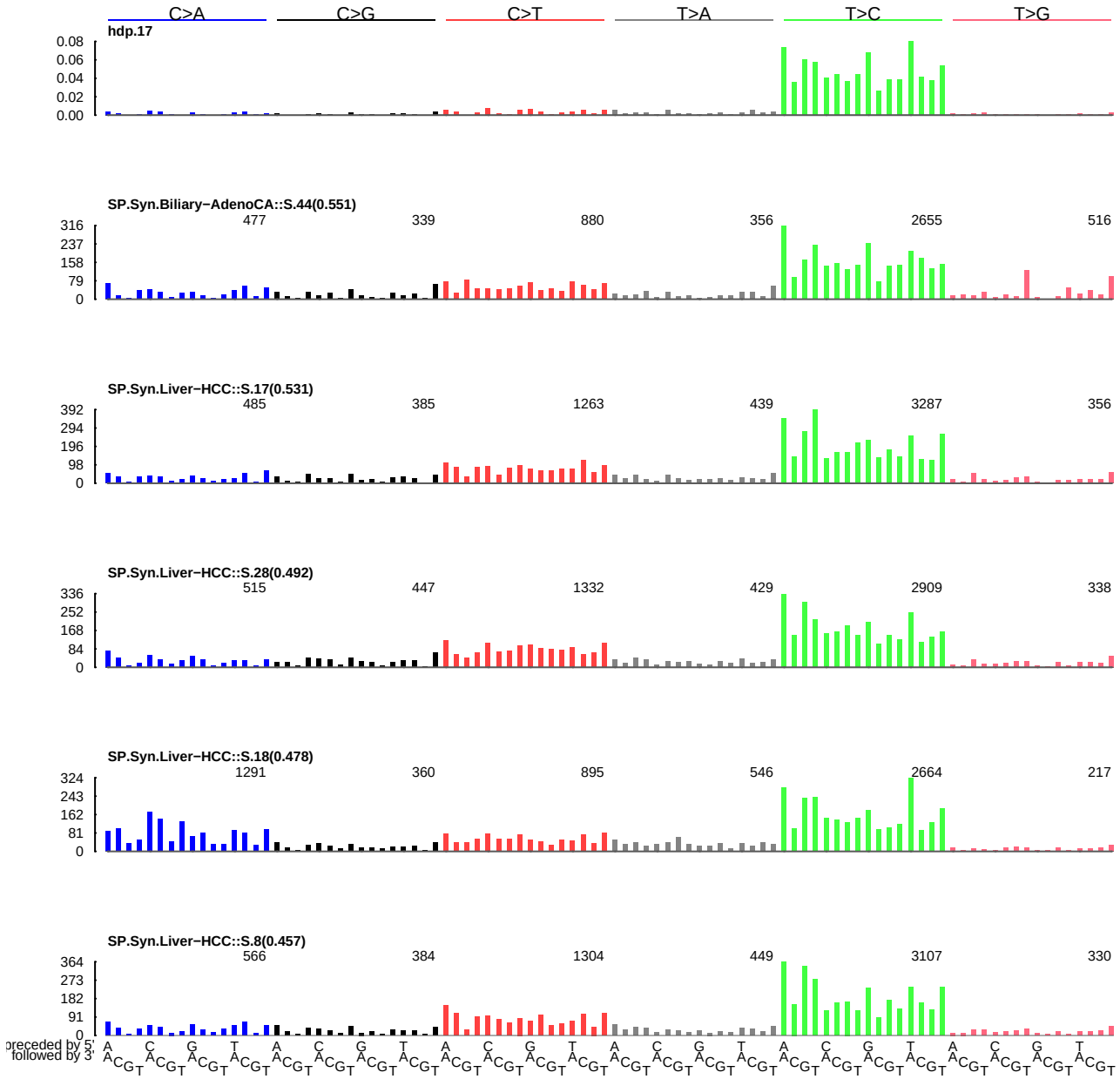

hdp.15
Proportion of exposure
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0
500
1000
1500
2000
Exposure

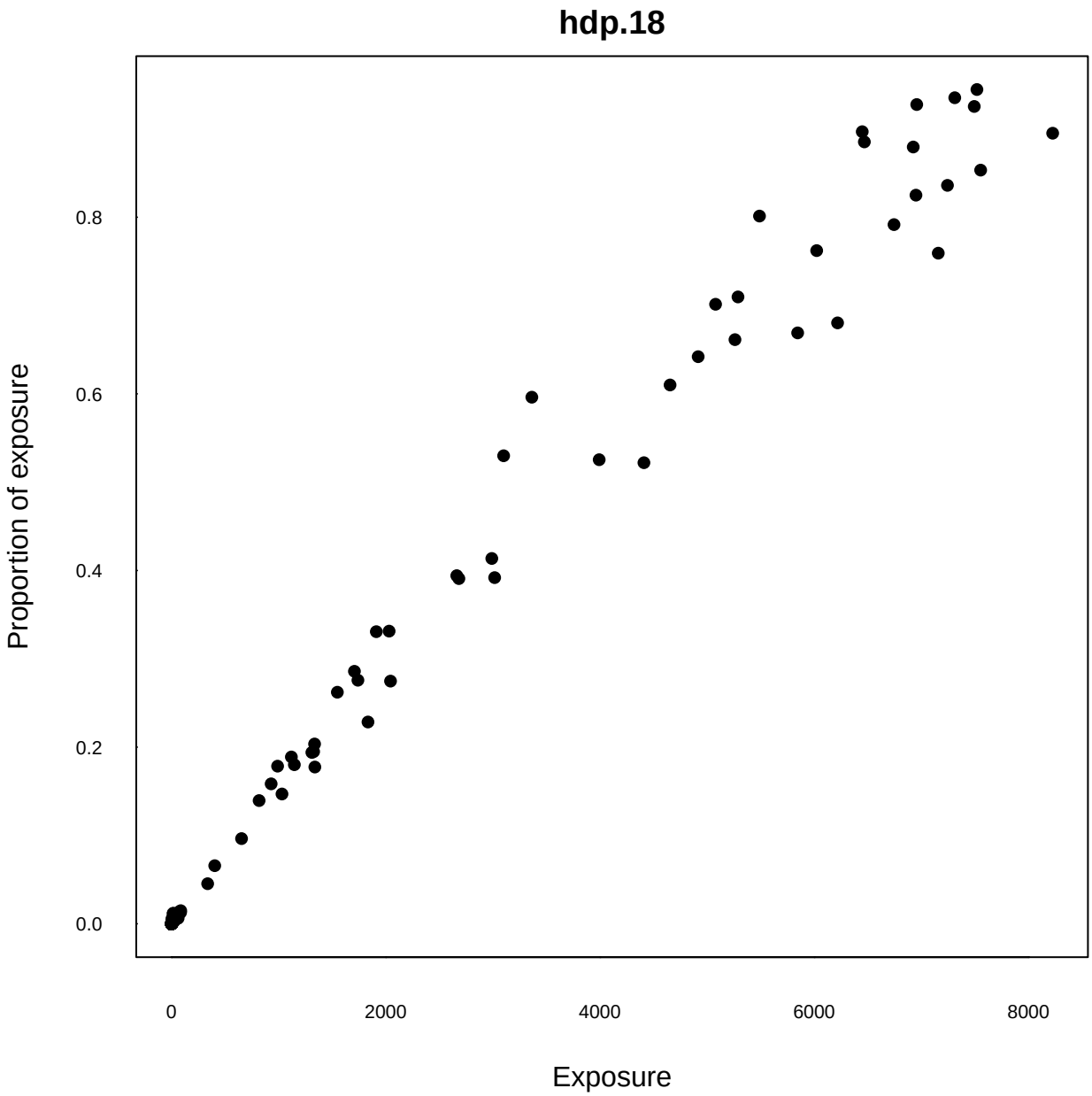

C>A
C>G
C>T
T>A
T>C
T>G
hdp.15
0.05
0.03
0.02
0.01
0.00
SP.Syn.CNS−Medullo::S.31(0.59)
312
59
402
255
158
35
124
93
62
31
0
SP.Syn.Breast−AdenoCA::S.34(0.436)
1198
657
1728
945
664
206
504
378
252
126
0
SP.Syn.Panc−Endocrine::S.44(0.43)
1024
286
1546
815
776
205
312
234
156
78
0
SP.Syn.Ovary−AdenoCA::S.38(0.418)
1286
575
1381
1175
816
316
248
186
124
62
0
SP.Syn.Panc−Endocrine::S.31(0.404)
330
120
509
275
344
85
76
57
38
19
0
preceded by 5'
followed by 3'
A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T

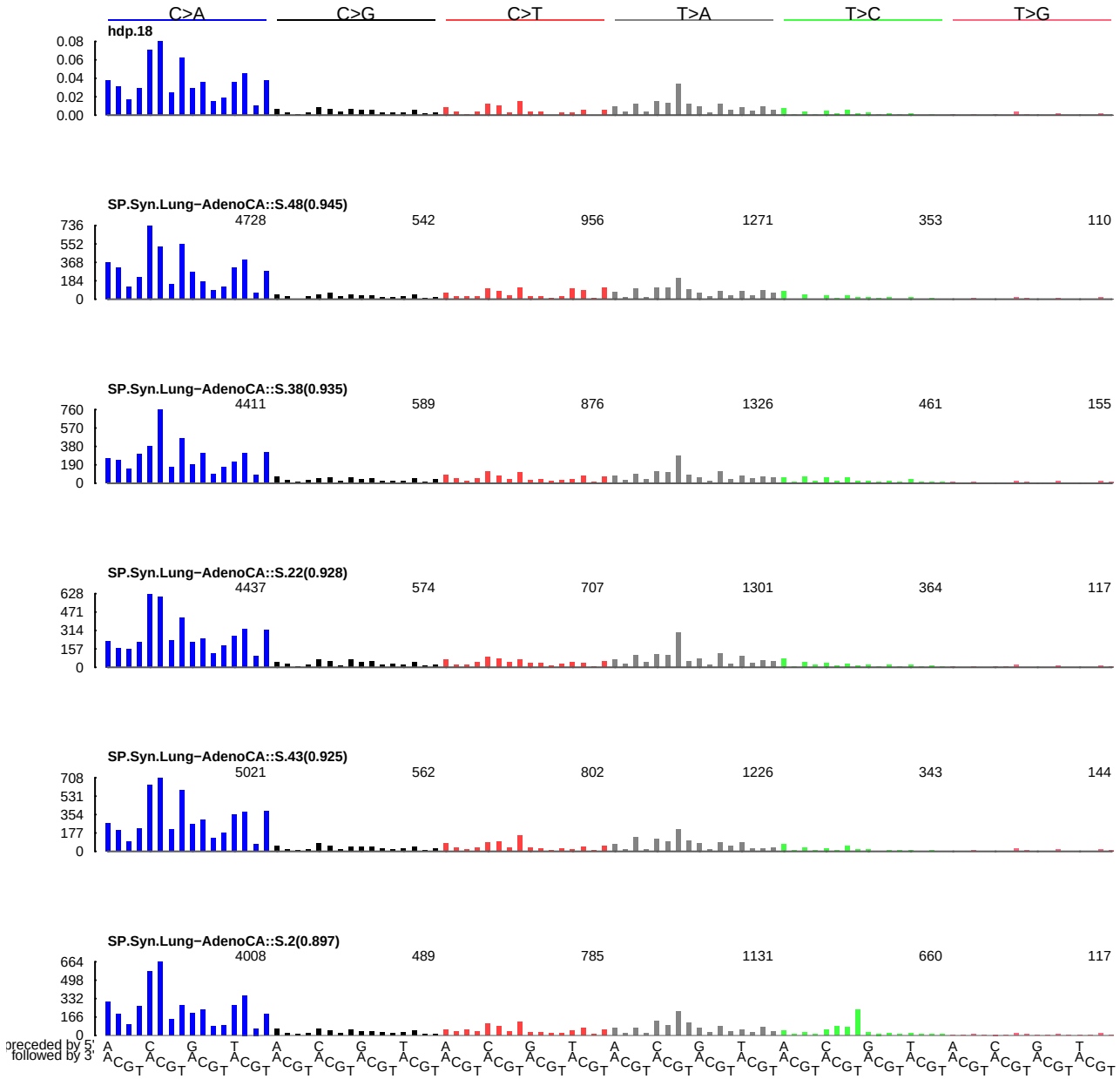

hdp.16
Proportion of exposure
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0
500
1000
1500
2000
2500
3000
Exposure

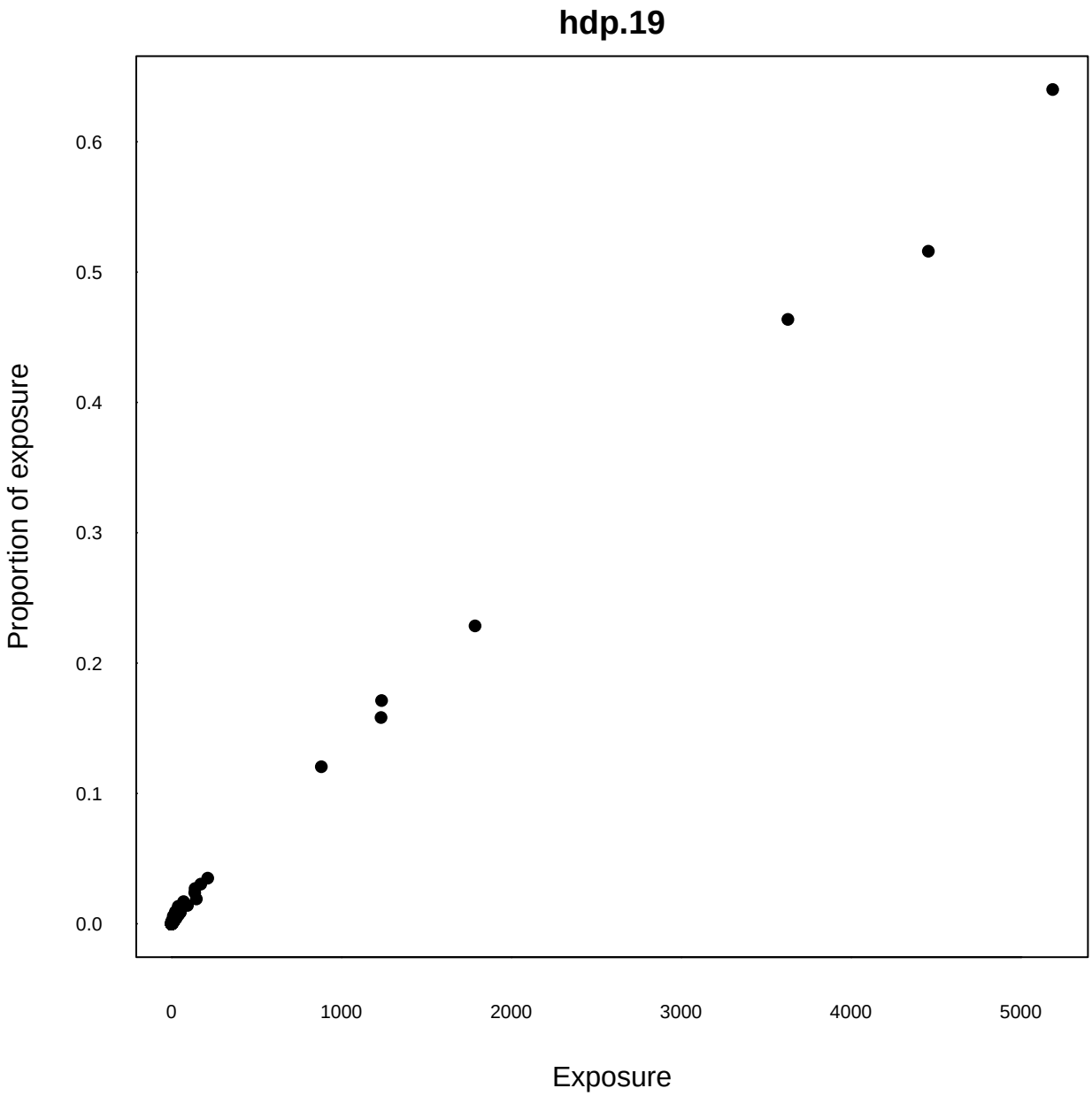

C>A
C>G
C>T
T>A
T>C
T>G
hdp.16
0.21
0.16
0.11
0.05
0.00
SP.Syn.Lymph−BNHL::S.34(0.641)
458
316
1213
2265
572
289
704
528
352
176
0
SP.Syn.Lymph−BNHL::S.23(0.552)
156
125
694
814
371
113
264
198
132
66
0
SP.Syn.Lymph−BNHL::S.24(0.097)
409
228
1312
794
1122
1421
276
207
138
69
0
SP.Syn.Lymph−BNHL::S.15(0.097)
765
586
1359
744
1210
568
160
120
80
40
0
SP.Syn.Lymph−BNHL::S.21(0.083)
979
884
1767
1012
976
798
192
144
96
48
0
preceded by 5'
followed by 3'
A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T

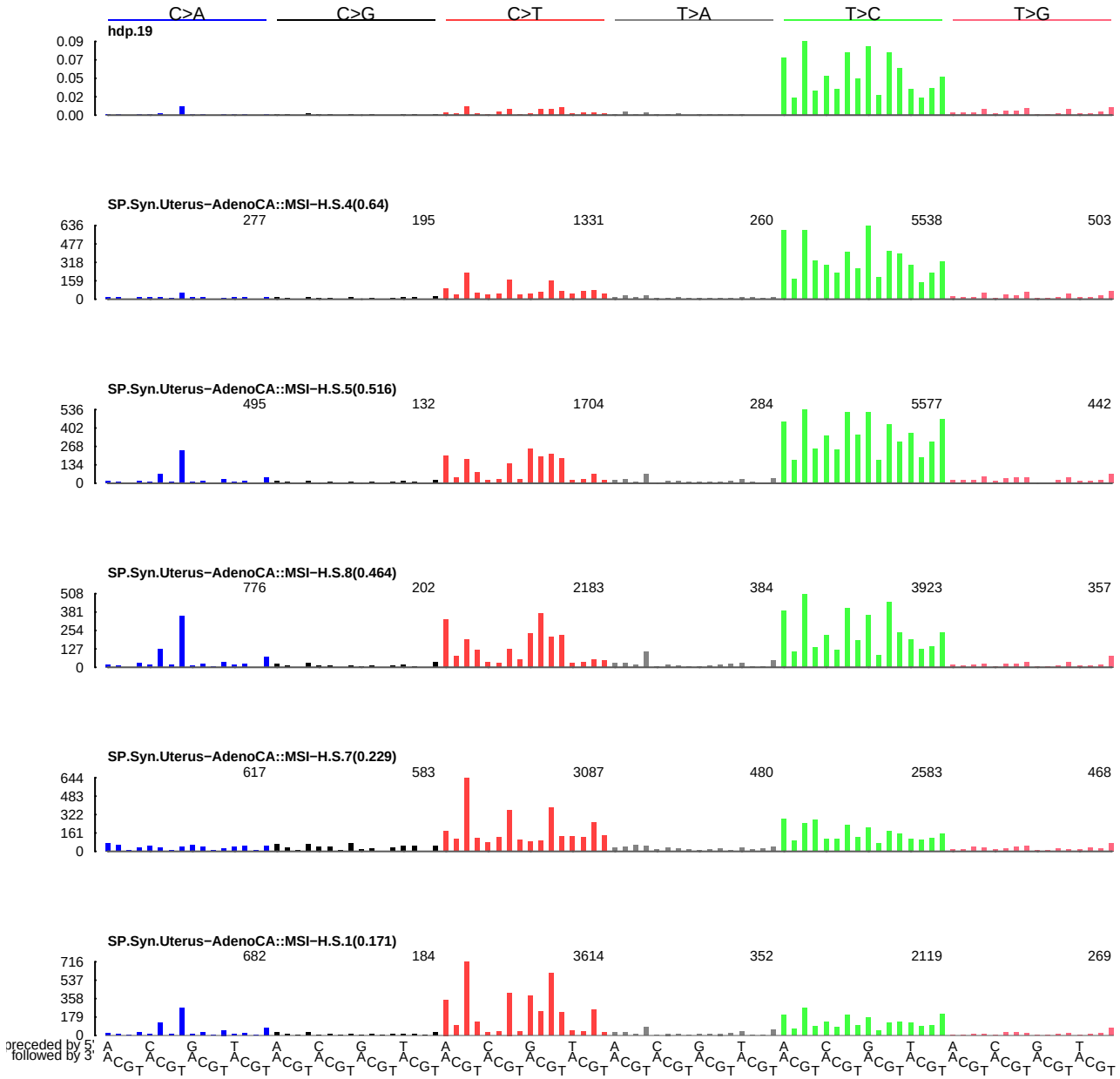

hdp.17
Proportion of exposure
0.0
0.1
0.2
0.3
0.4
0.5
0
500
1000
1500
2000
2500
3000
Exposure

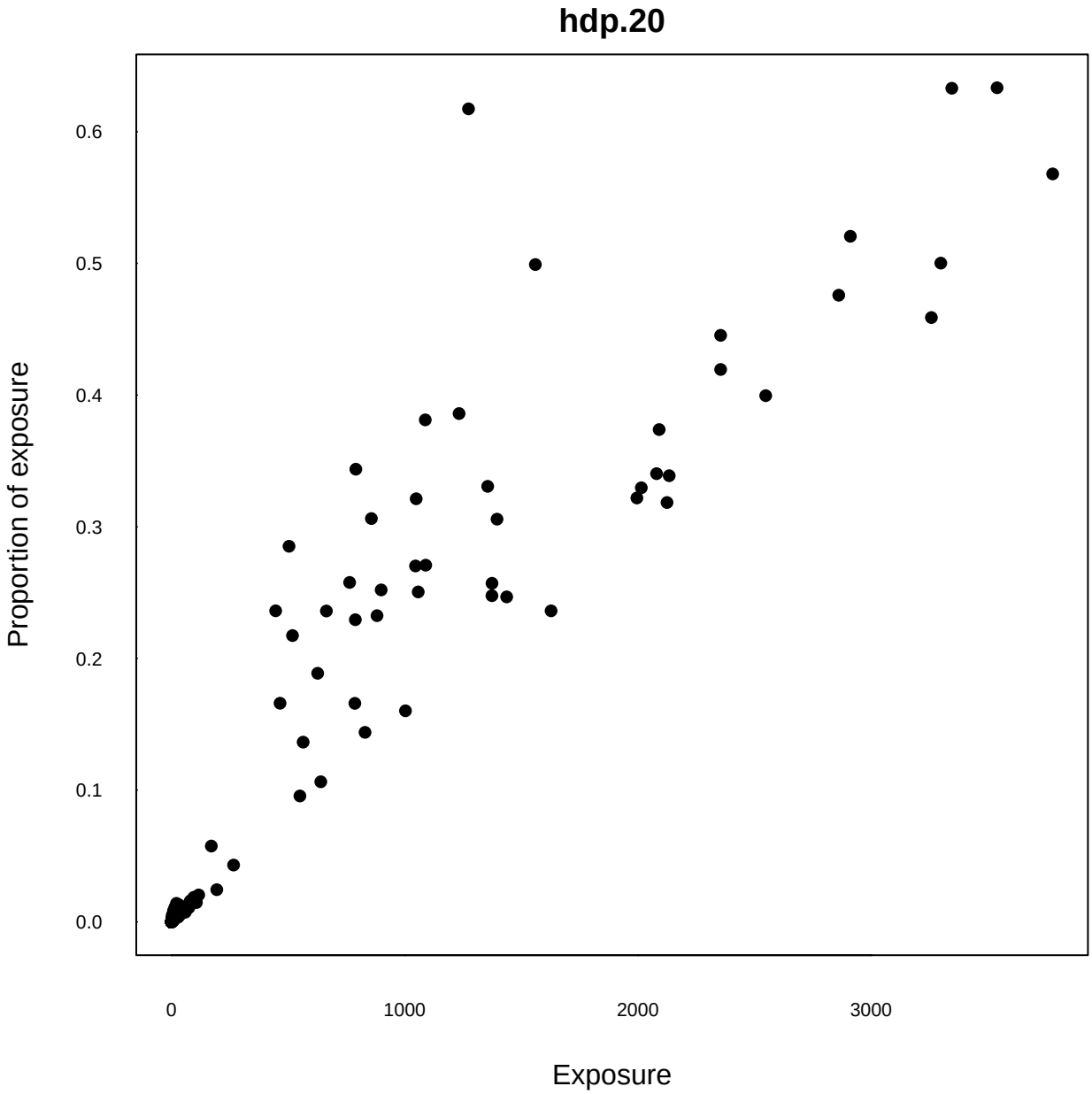

C>A
C>G
C>T
T>A
T>C
T>G
hdp.17
0.08
0.06
0.04
0.02
0.00
SP.Syn.Biliary−AdenoCA::S.44(0.551)
477
339
880
356
2655
516
316
237
158
79
0
SP.Syn.Liver−HCC::S.17(0.531)
485
385
1263
439
3287
356
392
294
196
98
0
SP.Syn.Liver−HCC::S.28(0.492)
515
447
1332
429
2909
338
336
252
168
84
0
SP.Syn.Liver−HCC::S.18(0.478)
1291
360
895
546
2664
217
324
243
162
81
0
SP.Syn.Liver−HCC::S.8(0.457)
566
384
1304
449
3107
330
364
273
182
91
0
preceded by 5'
followed by 3'
A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T

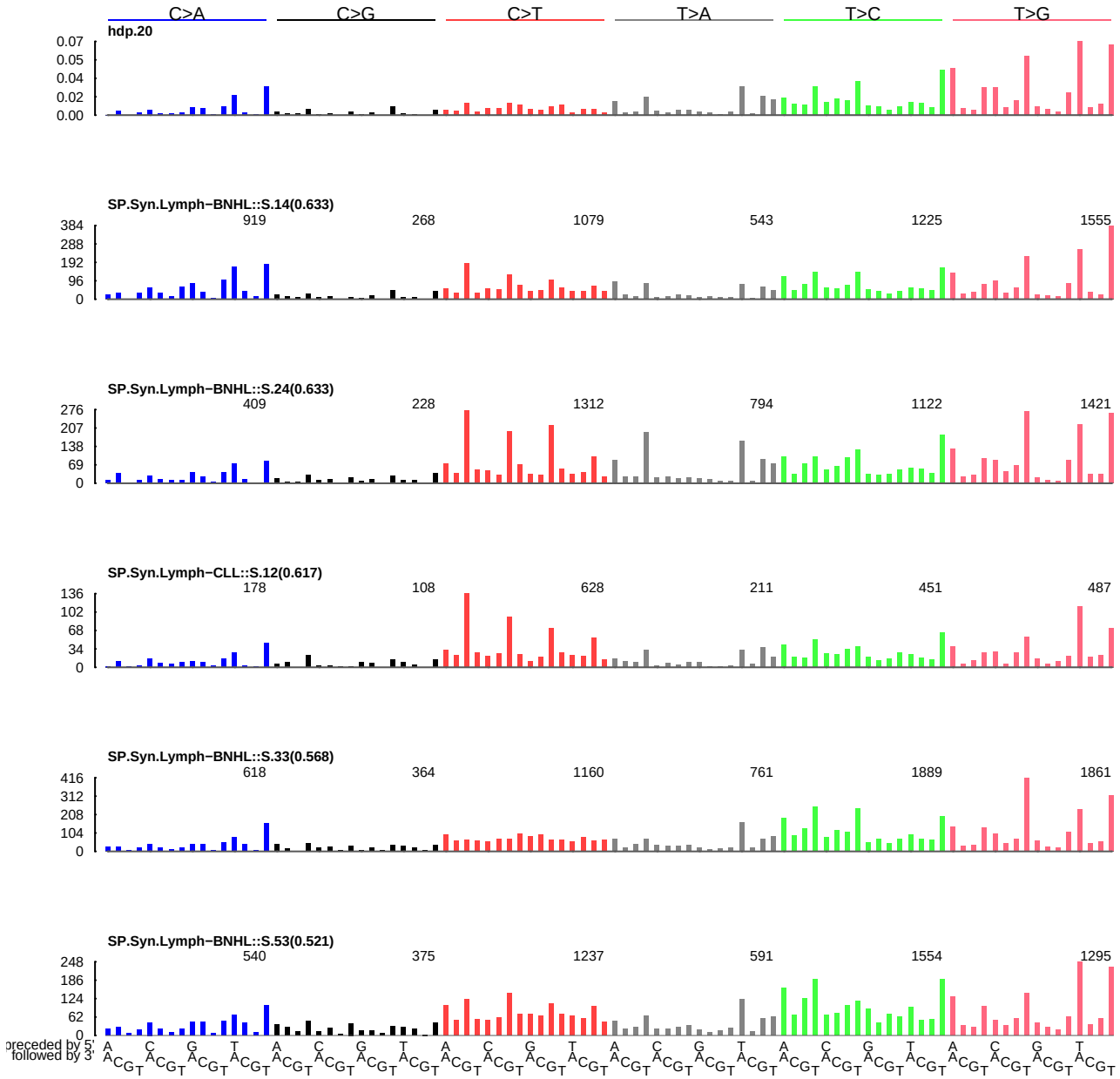

hdp.18
Proportion of exposure
0.0
0.2
0.4
0.6
0.8
0
2000
4000
6000
8000
Exposure

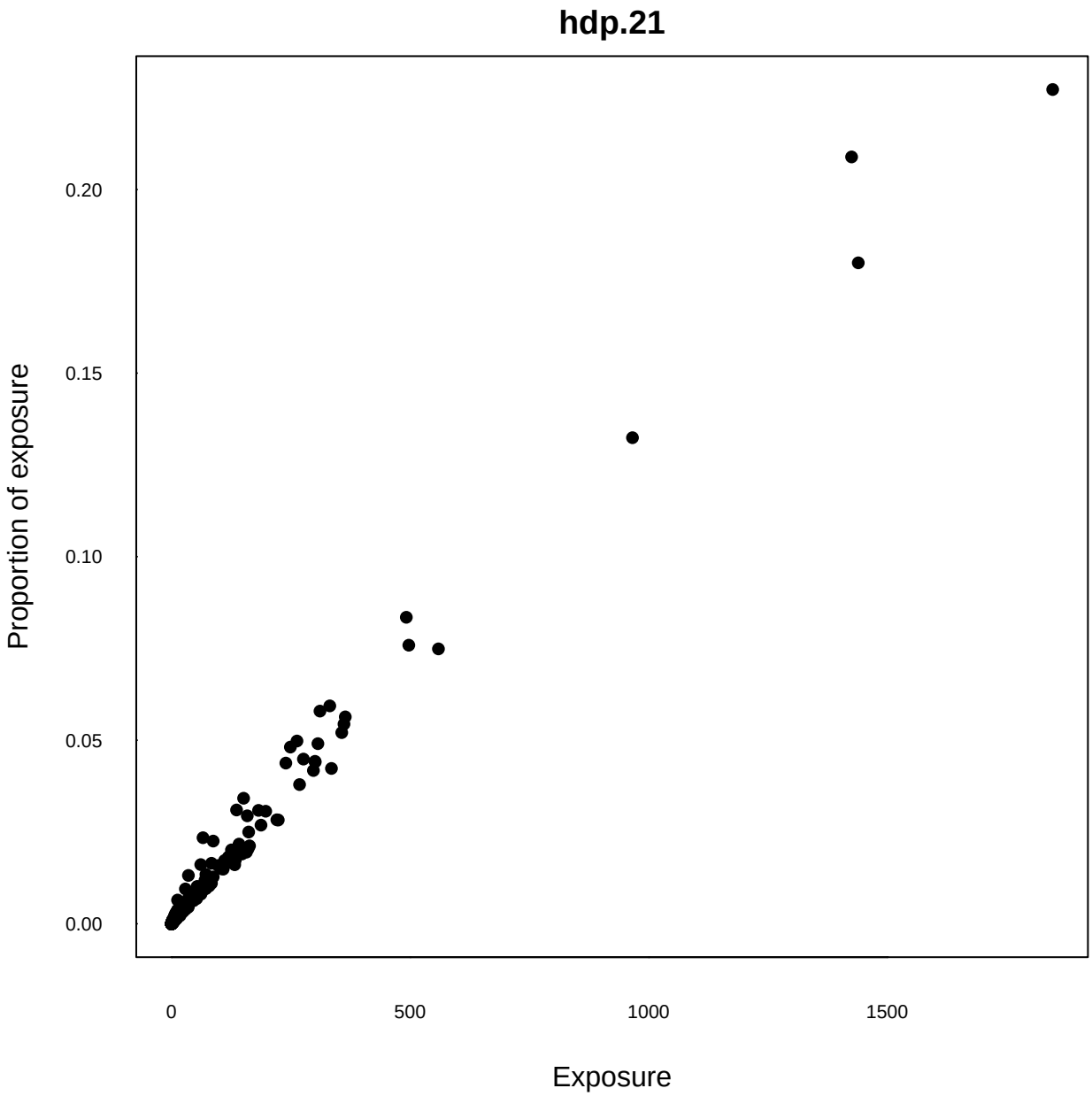

C>A
C>G
C>T
T>A
T>C
T>G
hdp.18
0.08
0.06
0.04
0.02
0.00
SP.Syn.Lung−AdenoCA::S.48(0.945)
4728
542
956
1271
353
110
736
552
368
184
0
SP.Syn.Lung−AdenoCA::S.38(0.935)
4411
589
876
1326
461
155
760
570
380
190
0
SP.Syn.Lung−AdenoCA::S.22(0.928)
4437
574
707
1301
364
117
628
471
314
157
0
SP.Syn.Lung−AdenoCA::S.43(0.925)
5021
562
802
1226
343
144
708
531
354
177
0
SP.Syn.Lung−AdenoCA::S.2(0.897)
4008
489
785
1131
660
117
664
498
332
166
0
preceded by 5'
followed by 3'
A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T

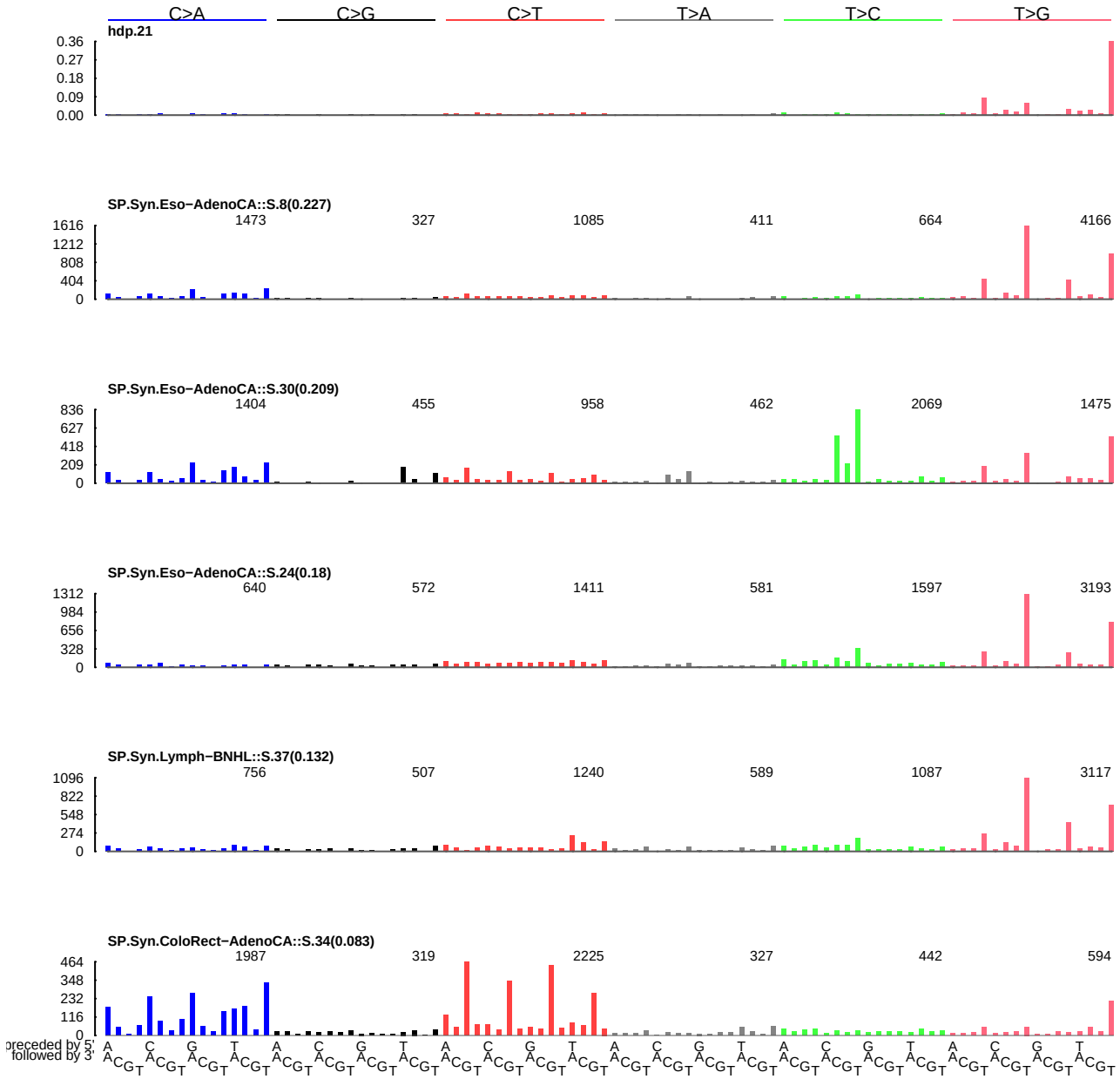

hdp.19
Proportion of exposure
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0
1000
2000
3000
4000
5000
Exposure

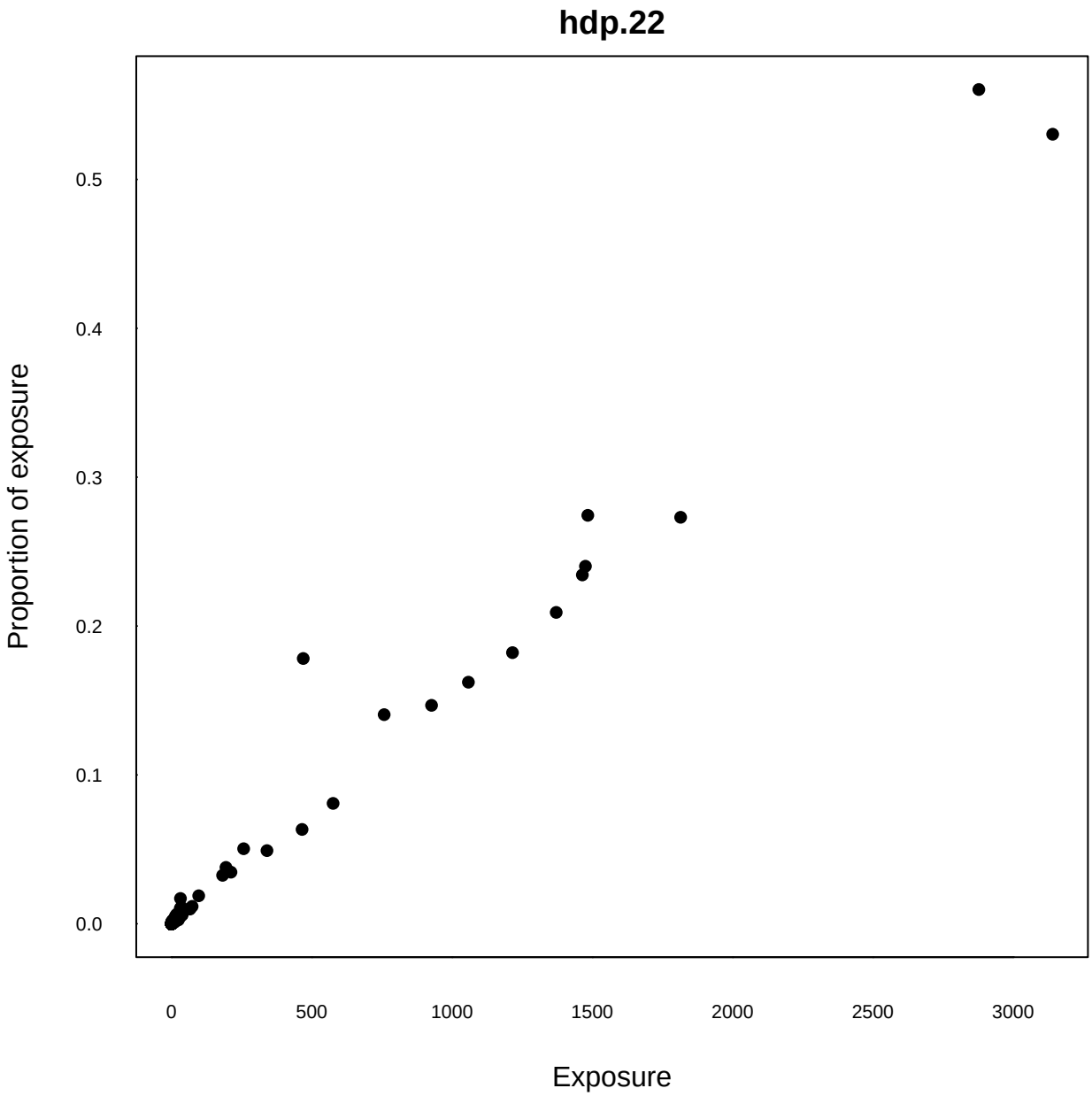

C>A
C>G
C>T
T>A
T>C
T>G
hdp.19
0.09
0.07
0.05
0.02
0.00
SP.Syn.Uterus−AdenoCA::MSI−H.S.4(0.64)
277
195
1331
260
5538
503
636
477
318
159
0
SP.Syn.Uterus−AdenoCA::MSI−H.S.5(0.516)
495
132
1704
284
5577
442
536
402
268
134
0
SP.Syn.Uterus−AdenoCA::MSI−H.S.8(0.464)
776
202
2183
384
3923
357
508
381
254
127
0
SP.Syn.Uterus−AdenoCA::MSI−H.S.7(0.229)
617
583
3087
480
2583
468
644
483
322
161
0
SP.Syn.Uterus−AdenoCA::MSI−H.S.1(0.171)
682
184
3614
352
2119
269
716
537
358
179
0
preceded by 5'
followed by 3'
A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T

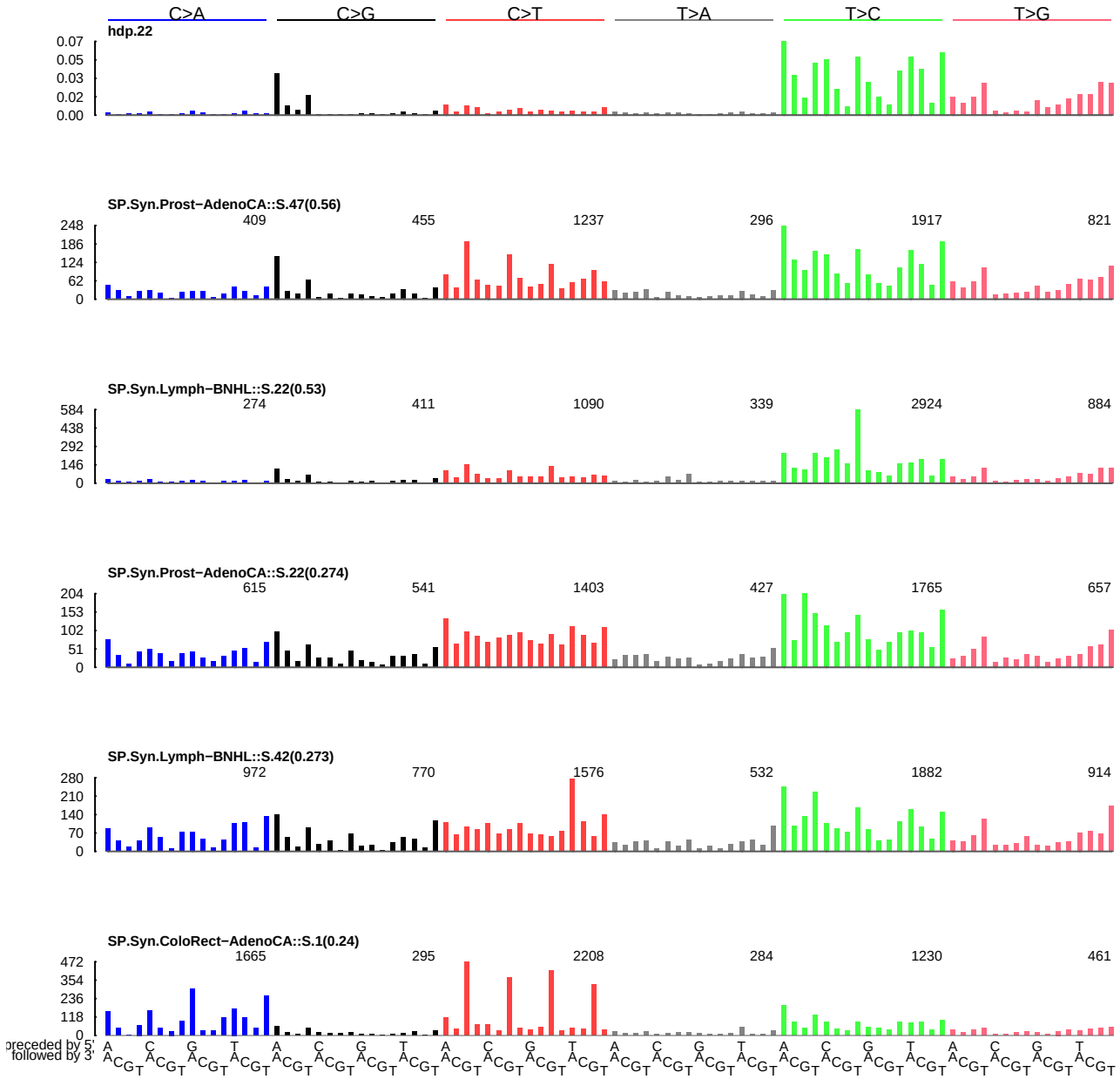

hdp.20
Proportion of exposure
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0
1000
2000
3000
Exposure

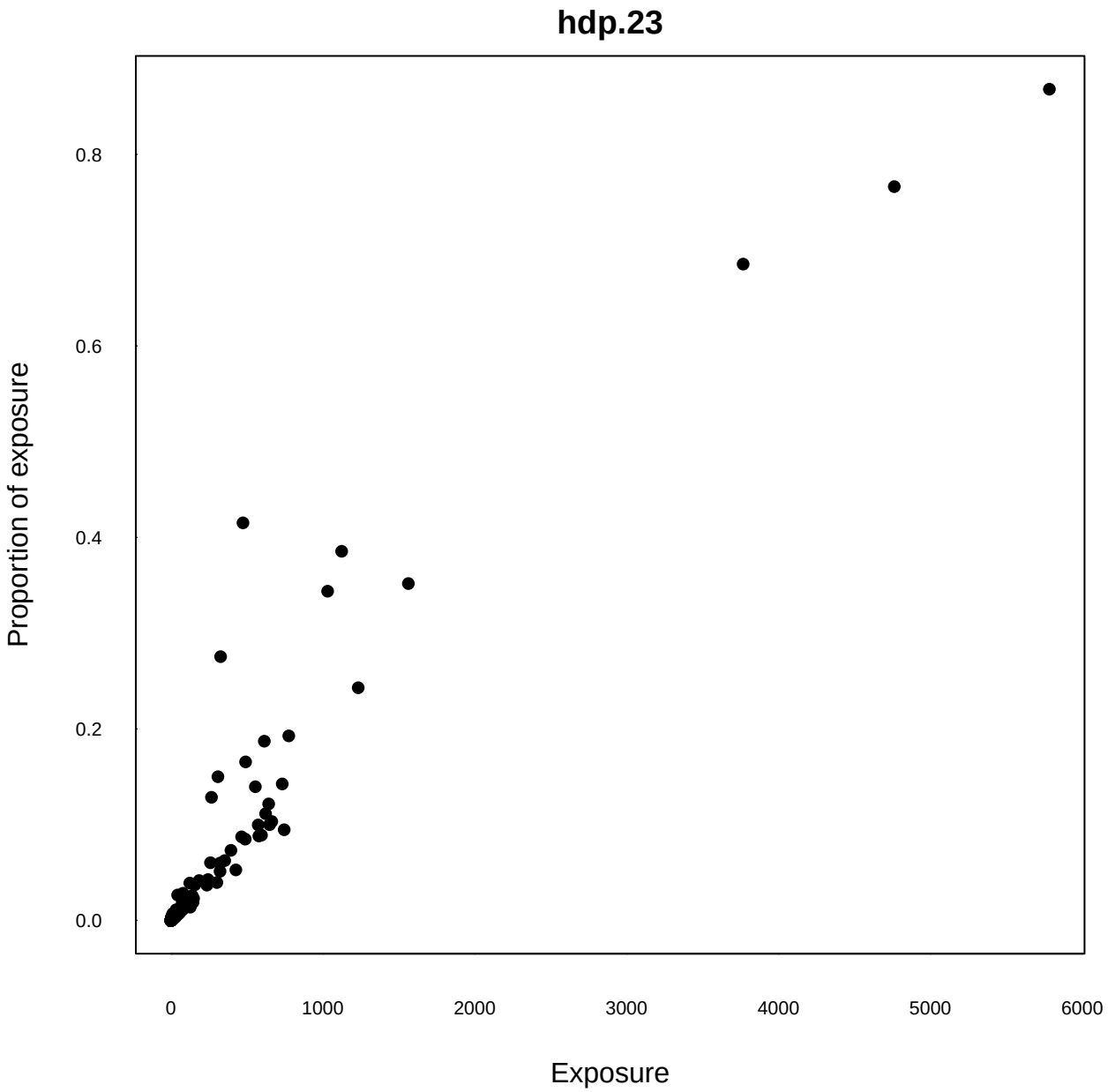

C>A
C>G
C>T
T>A
T>C
T>G
hdp.20
0.07
0.05
0.04
0.02
0.00
SP.Syn.Lymph−BNHL::S.14(0.633)
919
268
1079
543
1225
1555
384
288
192
96
0
SP.Syn.Lymph−BNHL::S.24(0.633)
409
228
1312
794
1122
1421
276
207
138
69
0
SP.Syn.Lymph−CLL::S.12(0.617)
178
108
628
211
451
487
136
102
68
34
0
SP.Syn.Lymph−BNHL::S.33(0.568)
618
364
1160
761
1889
1861
416
312
208
104
0
SP.Syn.Lymph−BNHL::S.53(0.521)
540
375
1237
591
1554
1295
248
186
124
62
0
preceded by 5'
followed by 3'
A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T

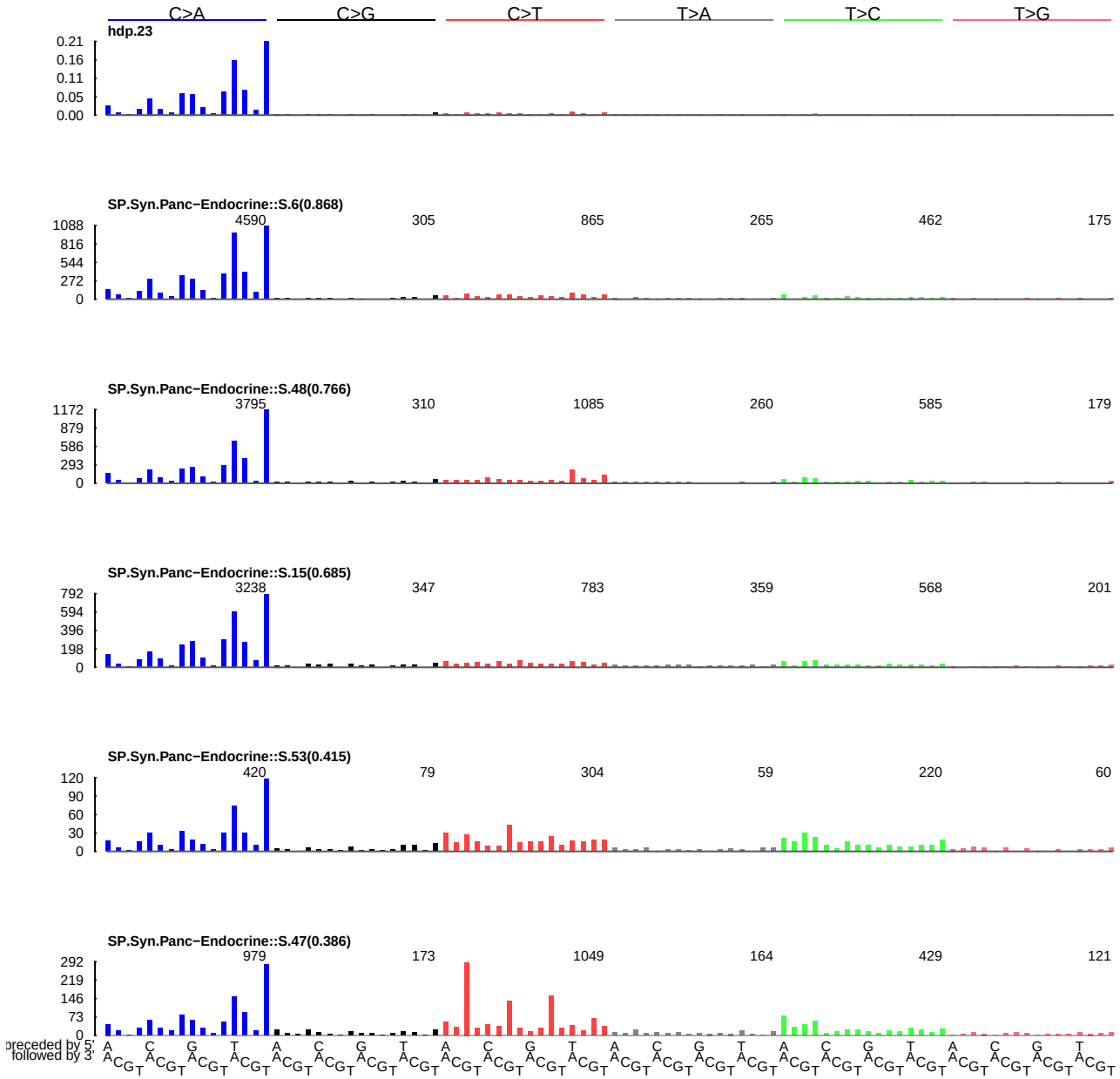

hdp.21
Proportion of exposure
0.00
0.05
0.10
0.15
0.20
0
500
1000
1500
Exposure

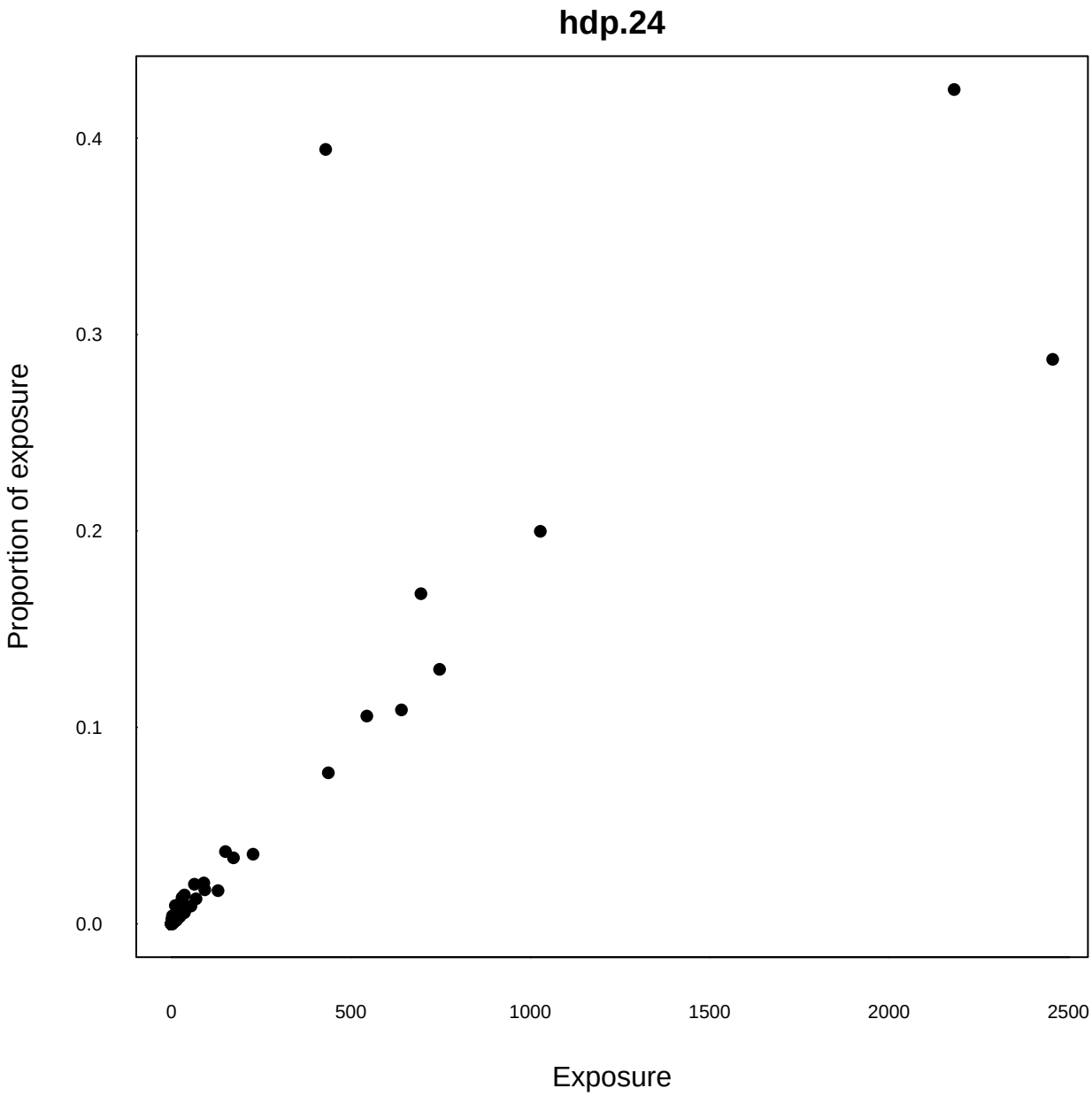

C>A
C>G
C>T
T>A
T>C
T>G
hdp.21
0.36
0.27
0.18
0.09
0.00
SP.Syn.Eso−AdenoCA::S.8(0.227)
1473
327
1085
411
664
4166
1616
1212
808
404
0
SP.Syn.Eso−AdenoCA::S.30(0.209)
1404
455
958
462
2069
1475
836
627
418
209
0
SP.Syn.Eso−AdenoCA::S.24(0.18)
640
572
1411
581
1597
3193
1312
984
656
328
0
SP.Syn.Lymph−BNHL::S.37(0.132)
756
507
1240
589
1087
3117
1096
822
548
274
0
SP.Syn.ColoRect−AdenoCA::S.34(0.083)
1987
319
2225
327
442
594
464
348
232
116
0
preceded by 5'
followed by 3'
A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T

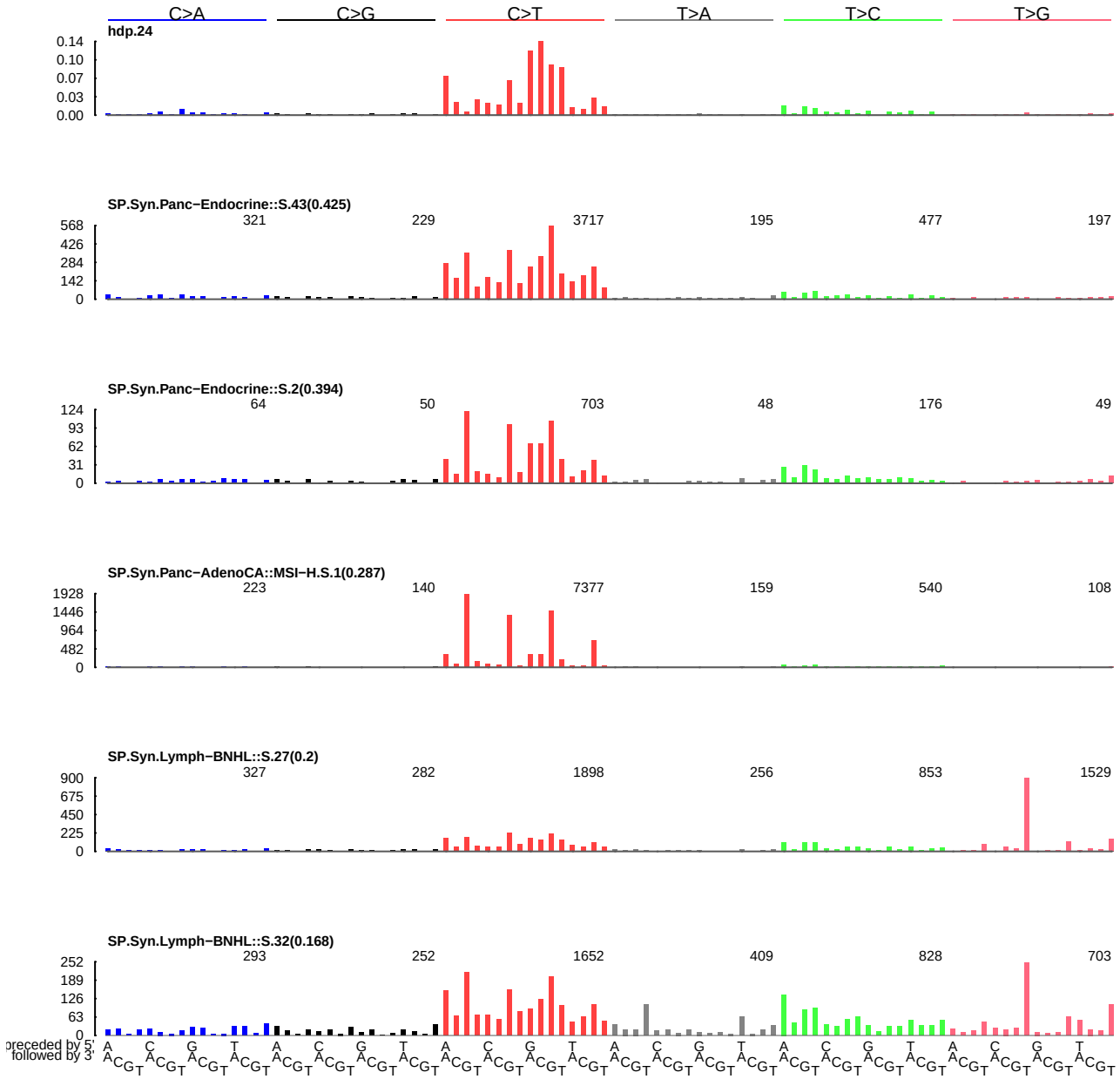

hdp.22
Proportion of exposure
0.0
0.1
0.2
0.3
0.4
0.5
0
500
1000
1500
2000
2500
3000
Exposure

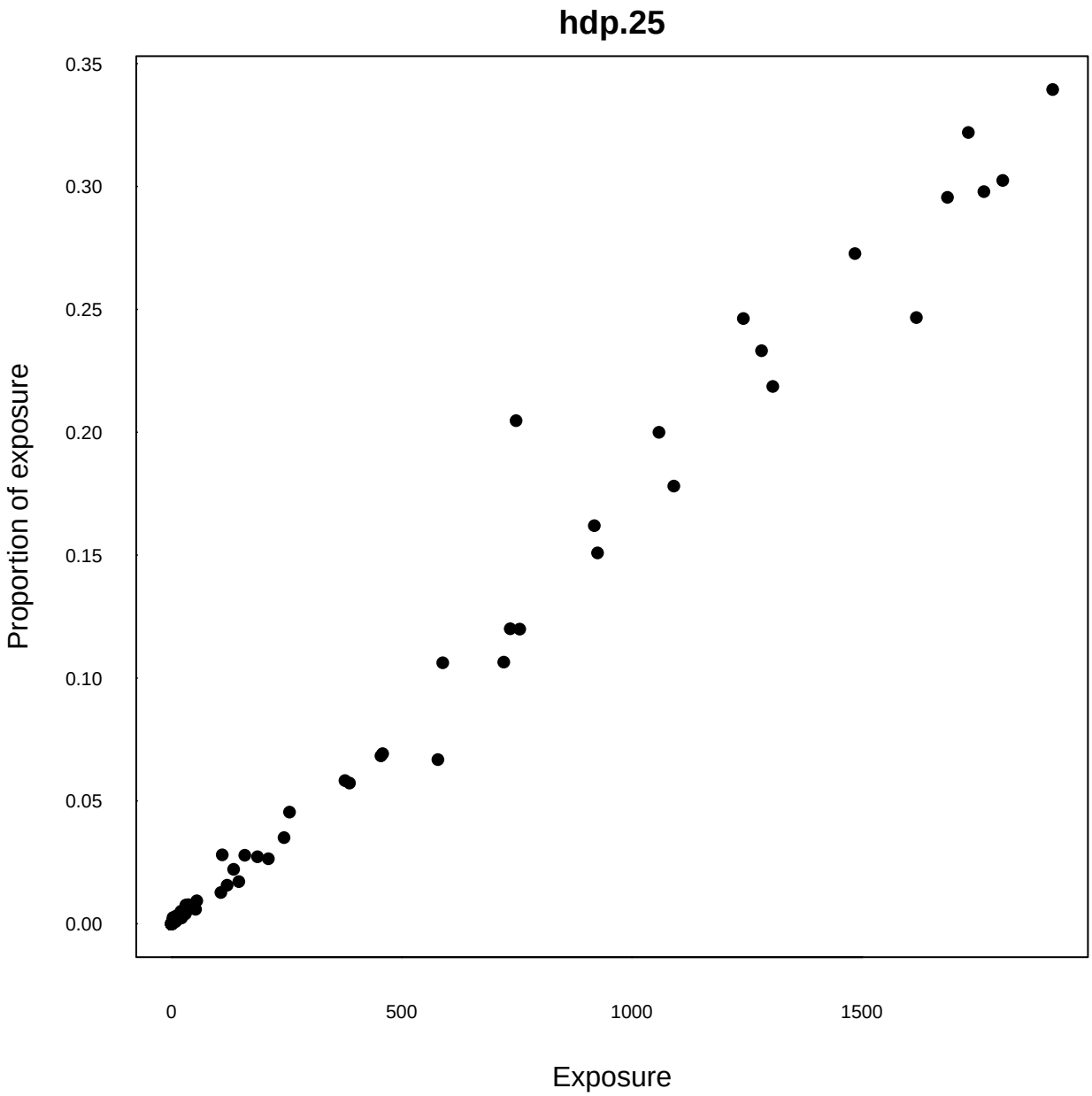

C>A
C>G
C>T
T>A
T>C
T>G
hdp.22
0.07
0.05
0.03
0.02
0.00
SP.Syn.Prost−AdenoCA::S.47(0.56)
409
455
1237
296
1917
821
248
186
124
62
0
SP.Syn.Lymph−BNHL::S.22(0.53)
274
411
1090
339
2924
884
584
438
292
146
0
SP.Syn.Prost−AdenoCA::S.22(0.274)
615
541
1403
427
1765
657
204
153
102
51
0
SP.Syn.Lymph−BNHL::S.42(0.273)
972
770
1576
532
1882
914
280
210
140
70
0
SP.Syn.ColoRect−AdenoCA::S.1(0.24)
1665
295
2208
284
1230
461
472
354
236
118
0
preceded by 5'
followed by 3'
A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T

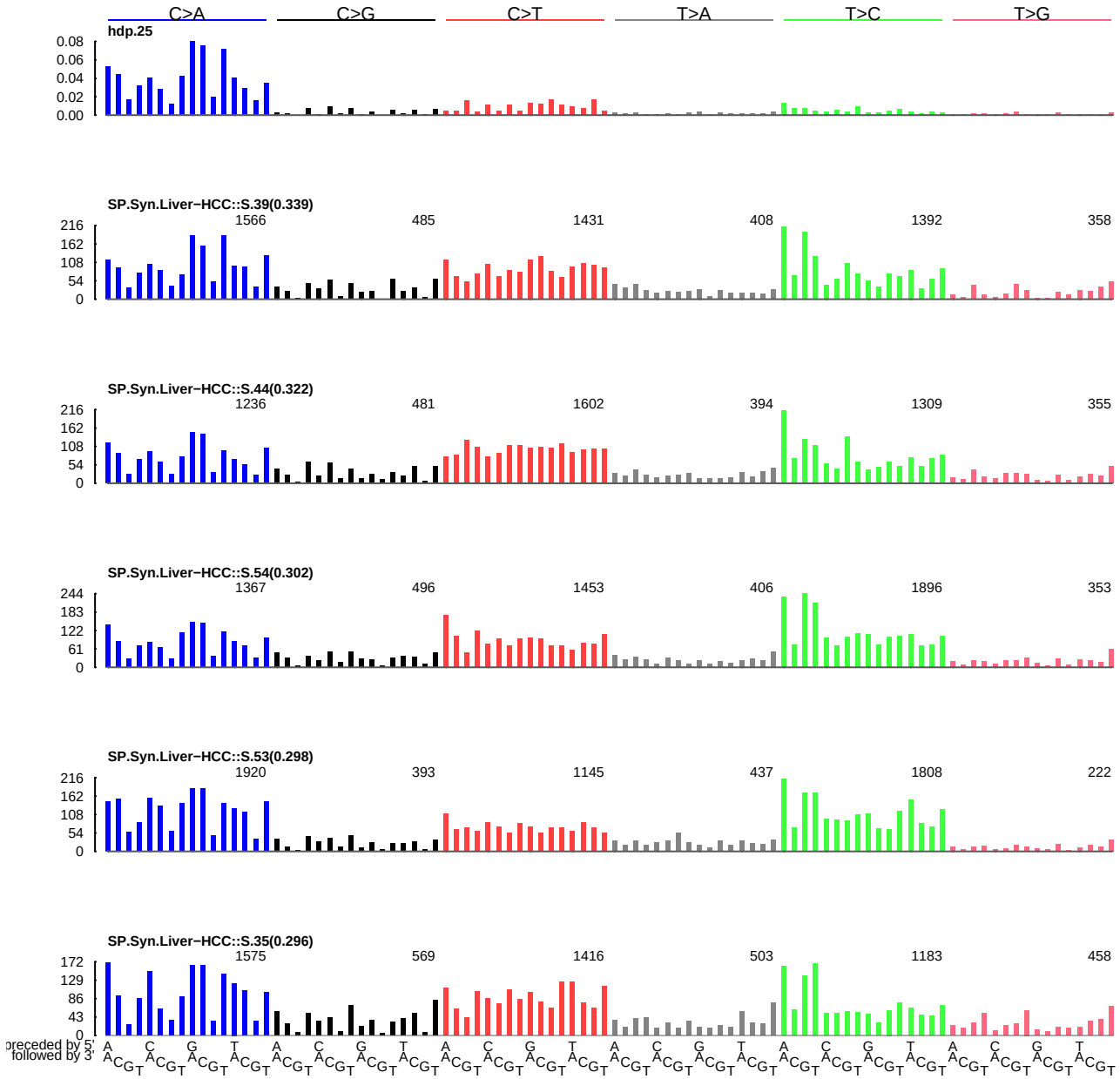

hdp.23
Proportion of exposure
0.0
0.2
0.4
0.6
0.8
0
1000
2000
3000
4000
5000
6000
Exposure

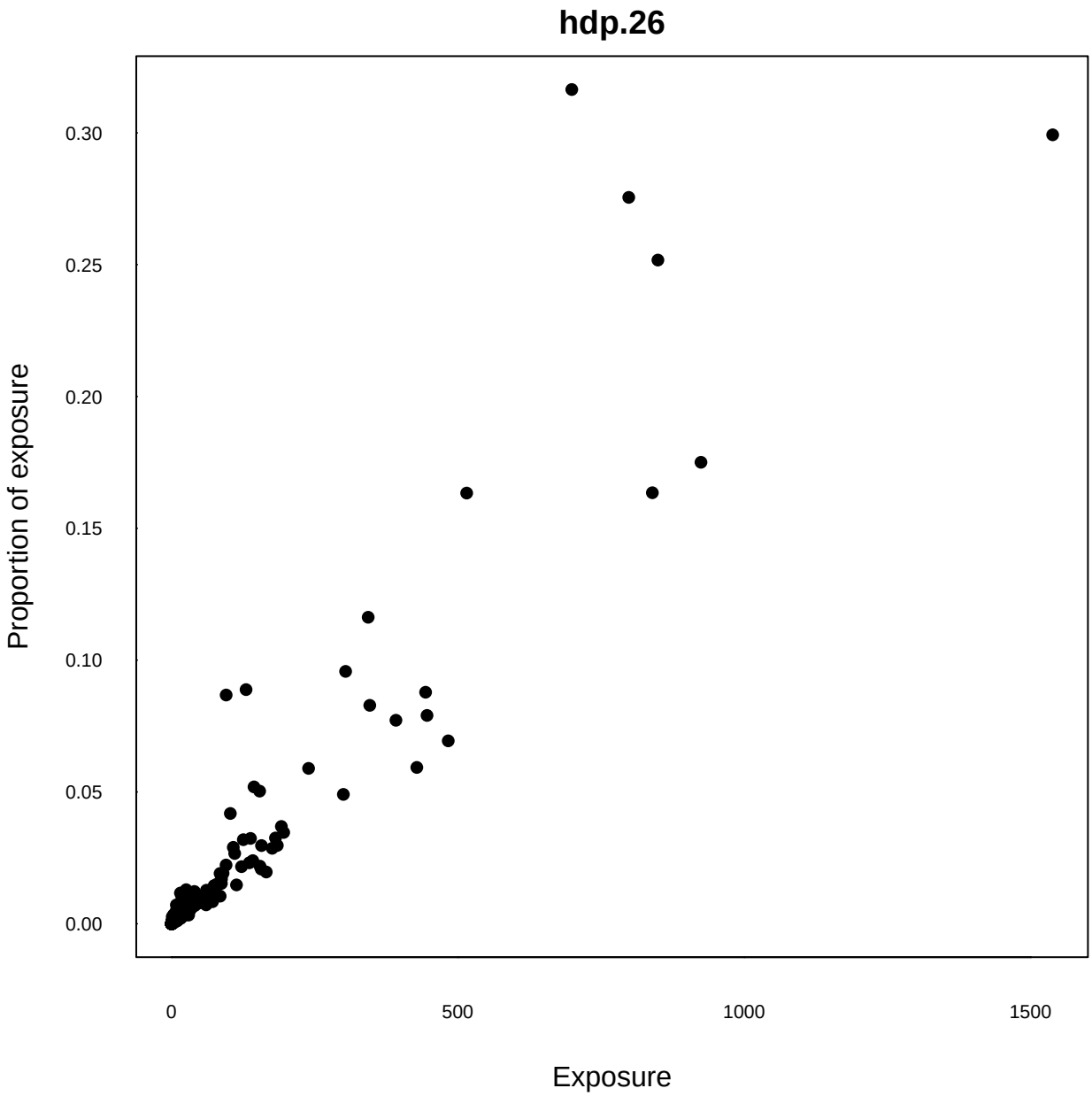

C>A
C>G
C>T
T>A
T>C
T>G
hdp.23
0.21
0.16
0.11
0.05
0.00
SP.Syn.Panc−Endocrine::S.6(0.868)
4590
305
865
265
462
175
1088
816
544
272
0
SP.Syn.Panc−Endocrine::S.48(0.766)
3795
310
1085
260
585
179
1172
879
586
293
0
SP.Syn.Panc−Endocrine::S.15(0.685)
3238
347
783
359
568
201
792
594
396
198
0
SP.Syn.Panc−Endocrine::S.53(0.415)
420
79
304
59
220
60
120
90
60
30
0
SP.Syn.Panc−Endocrine::S.47(0.386)
979
173
1049
164
429
121
292
219
146
73
0
preceded by 5'
followed by 3'

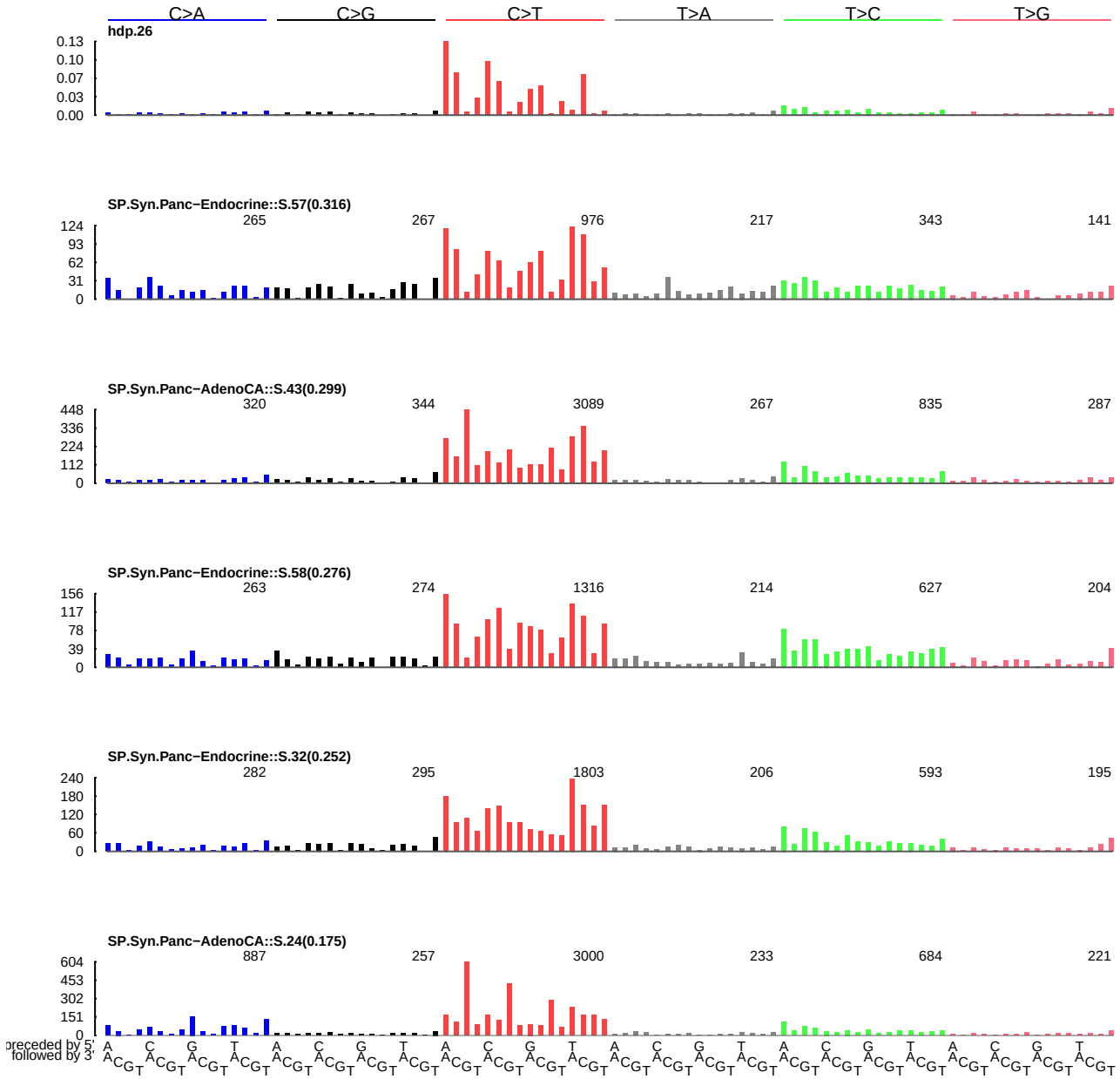

hdp.24
Proportion of exposure
0.0
0.1
0.2
0.3
0.4
0
500
1000
1500
2000
2500
Exposure

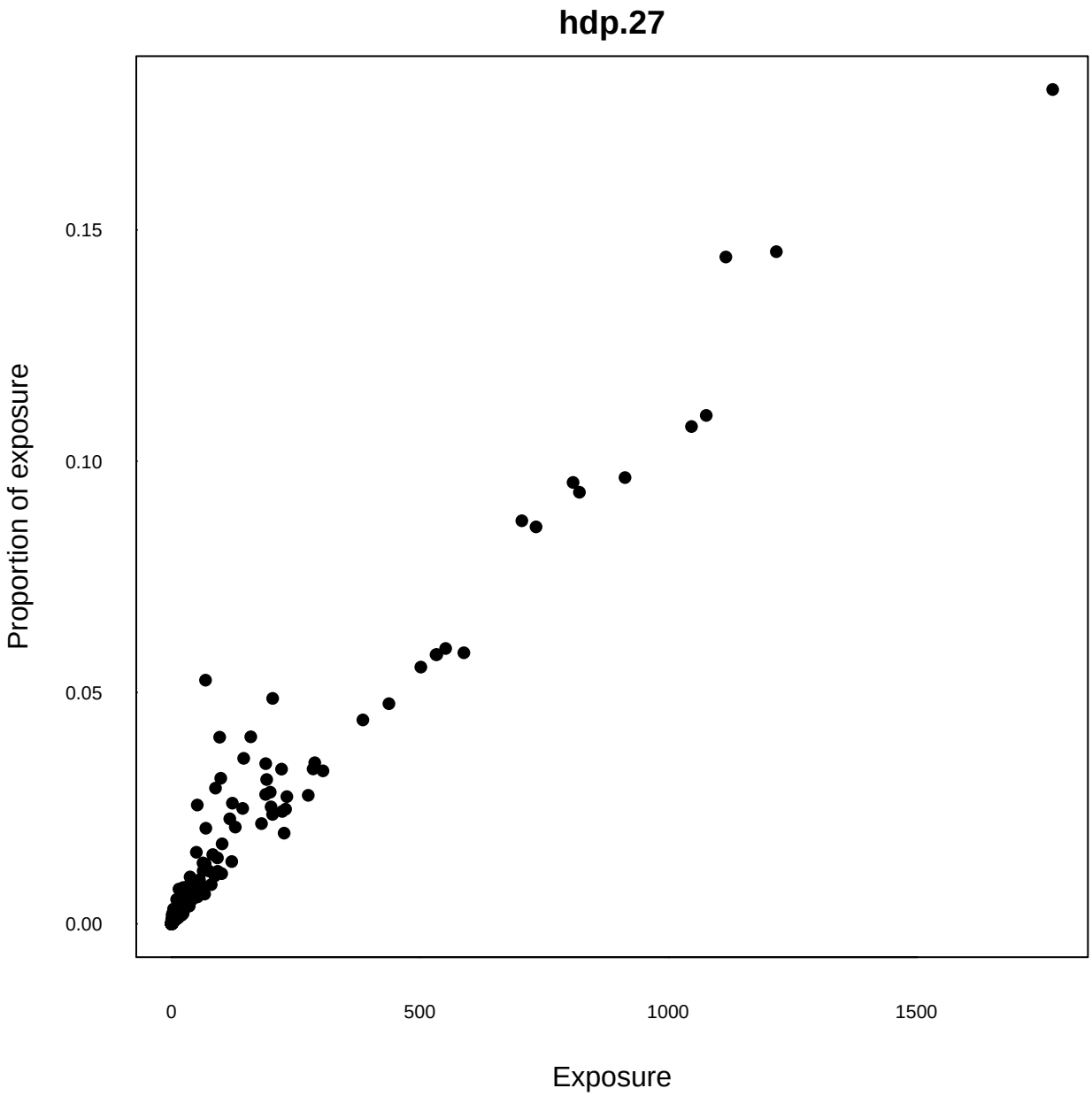

C>A
C>G
C>T
T>A
T>C
T>G
hdp.24
0.14
0.10
0.07
0.03
0.00
SP.Syn.Panc−Endocrine::S.43(0.425)
321
229
3717
195
477
197
568
426
284
142
0
SP.Syn.Panc−Endocrine::S.2(0.394)
64
50
703
48
176
49
124
93
62
31
0
SP.Syn.Panc−AdenoCA::MSI−H.S.1(0.287)
223
140
7377
159
540
108
1928
1446
964
482
0
SP.Syn.Lymph−BNHL::S.27(0.2)
327
282
1898
256
853
1529
900
675
450
225
0
SP.Syn.Lymph−BNHL::S.32(0.168)
293
252
1652
409
828
703
252
189
126
63
0
preceded by 5'
followed by 3'
A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T

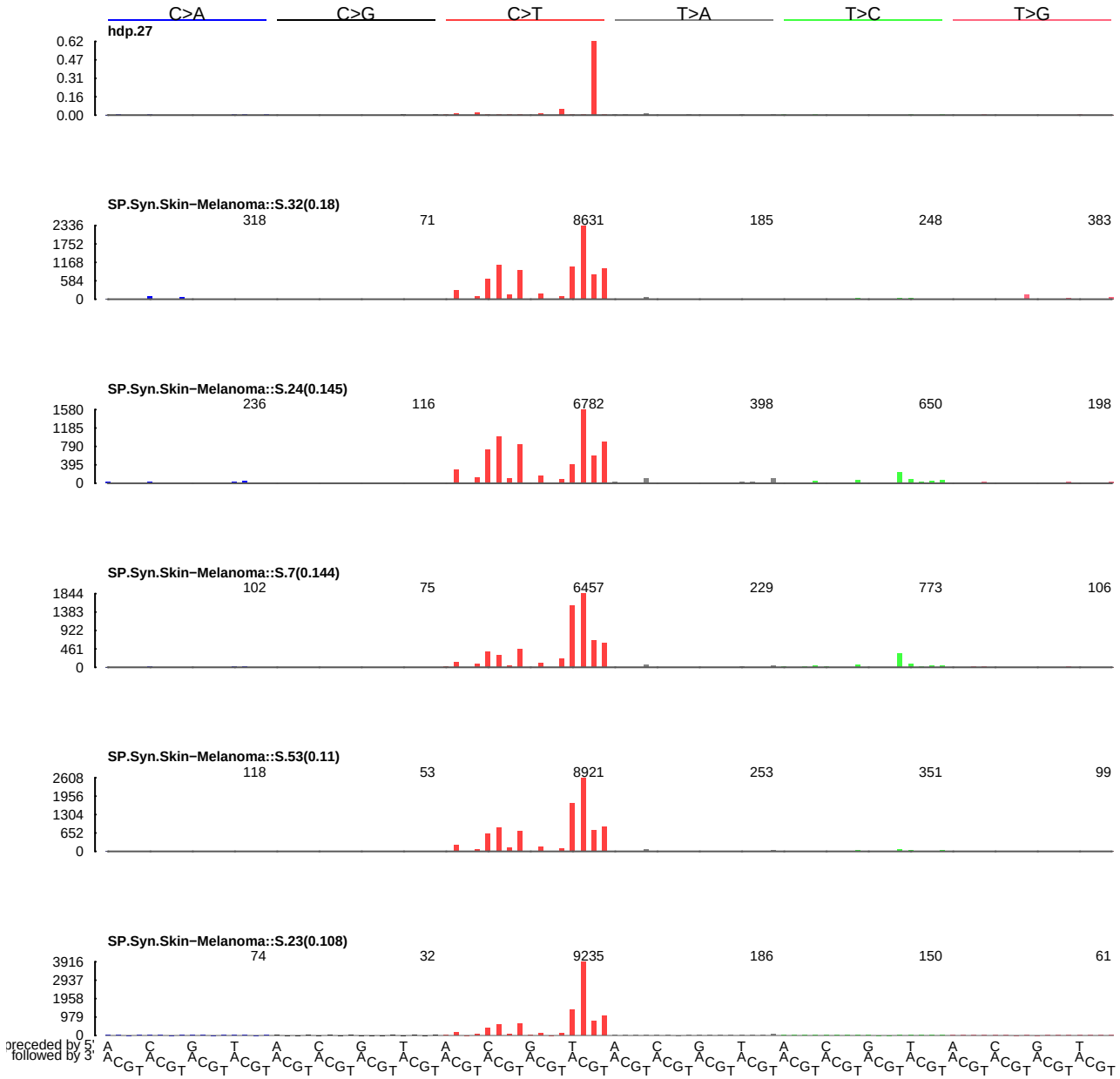

hdp.25
Proportion of exposure
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
500
1000
1500
Exposure

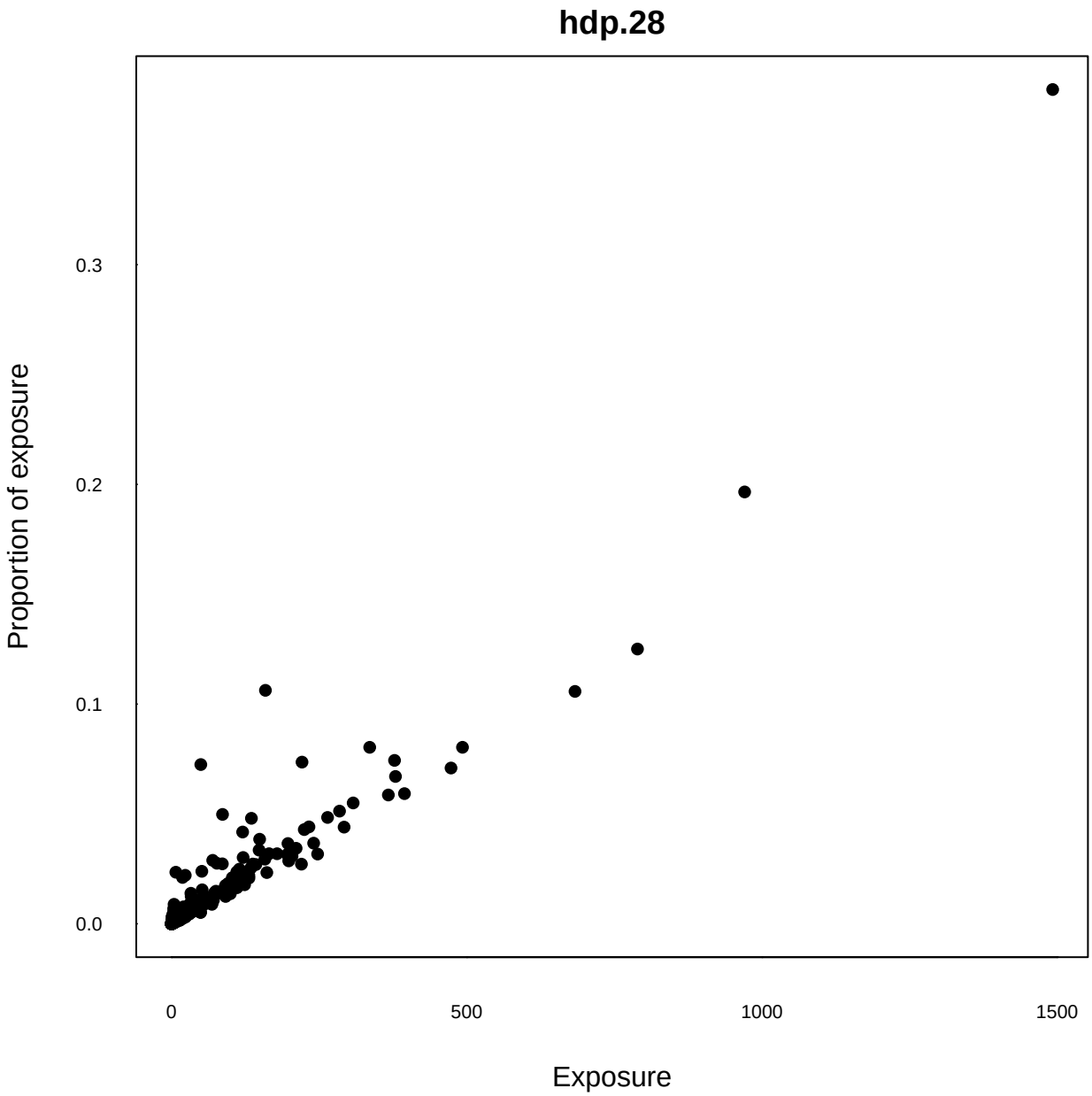

C>A
C>G
C>T
T>A
T>C
T>G
hdp.25
0.08
0.06
0.04
0.02
0.00
SP.Syn.Liver−HCC::S.39(0.339)
1566
485
1431
408
1392
358
216
162
108
54
0
SP.Syn.Liver−HCC::S.44(0.322)
1236
481
1602
394
1309
355
216
162
108
54
0
SP.Syn.Liver−HCC::S.54(0.302)
1367
496
1453
406
1896
353
244
183
122
61
0
SP.Syn.Liver−HCC::S.53(0.298)
1920
393
1145
437
1808
222
216
162
108
54
0
SP.Syn.Liver−HCC::S.35(0.296)
1575
569
1416
503
1183
458
172
129
86
43
0
preceded by 5'
followed by 3'
A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T

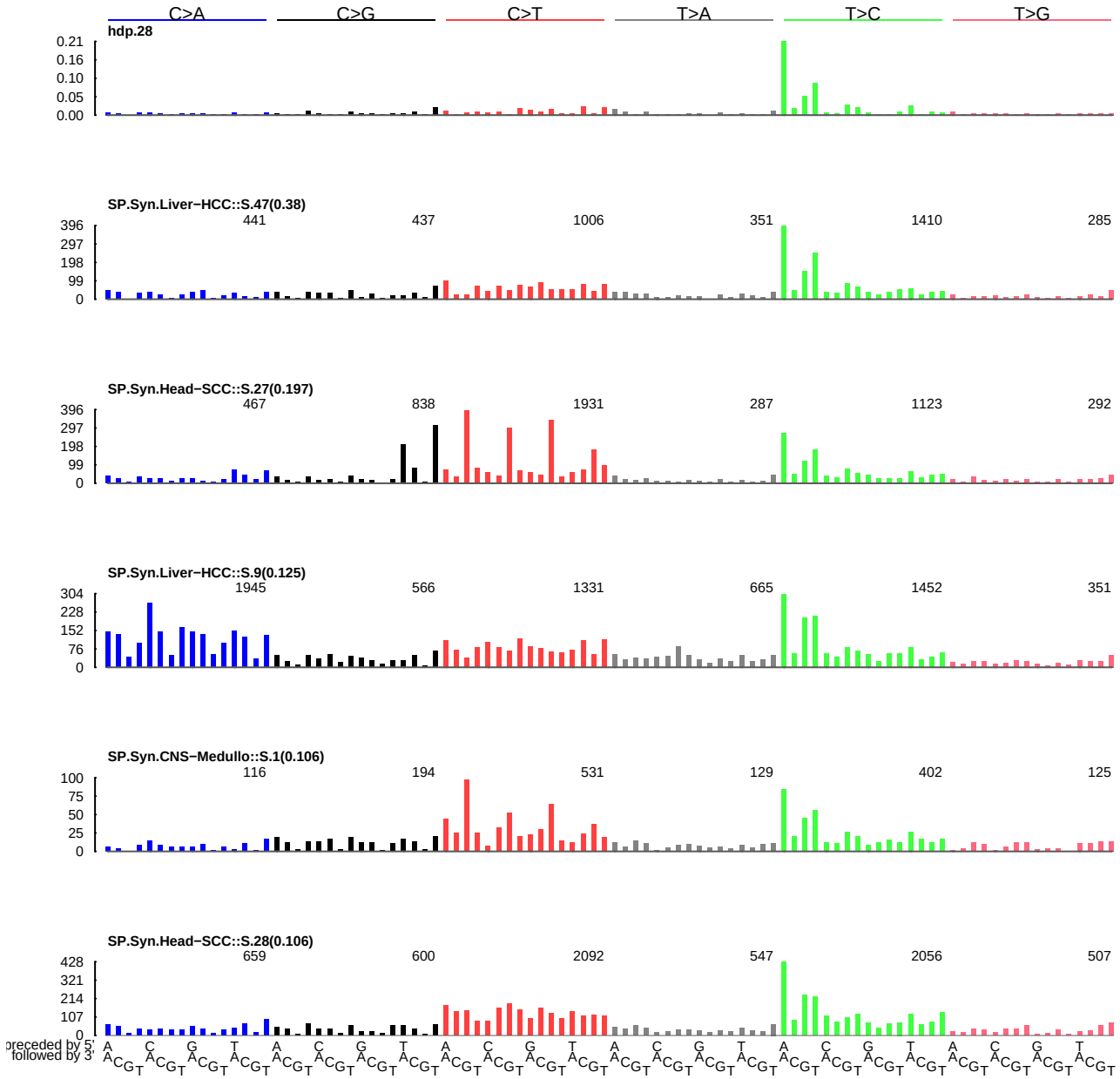

hdp.26
Proportion of exposure
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0
500
1000
1500
Exposure


C>A
C>G
C>T
T>A
T>C
T>G
hdp.26
0.13
0.10
0.07
0.03
0.00
SP.Syn.Panc−Endocrine::S.57(0.316)
265
267
976
217
343
141
124
93
62
31
0
SP.Syn.Panc−AdenoCA::S.43(0.299)
320
344
3089
267
835
287
448
336
224
112
0
SP.Syn.Panc−Endocrine::S.58(0.276)
263
274
1316
214
627
204
156
117
78
39
0
SP.Syn.Panc−Endocrine::S.32(0.252)
282
295
1803
206
593
195
240
180
120
60
0
SP.Syn.Panc−AdenoCA::S.24(0.175)
887
257
3000
233
684
221
604
453
302
151
0
preceded by 5'
followed by 3'
A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T


hdp.27
Proportion of exposure
0.15
0.10
0.05
0.00
0
500
1000
1500
Exposure


C>A
C>G
C>T
T>A
T>C
T>G
hdp.27
0.62
0.47
0.31
0.16
0.00
SP.Syn.Skin−Melanoma::S.32(0.18)
318
71
8631
185
248
383
2336
1752
1168
584
0
SP.Syn.Skin−Melanoma::S.24(0.145)
236
116
6782
398
650
198
1580
1185
790
395
0
SP.Syn.Skin−Melanoma::S.7(0.144)
102
75
6457
229
773
106
1844
1383
922
461
0
SP.Syn.Skin−Melanoma::S.53(0.11)
118
53
8921
253
351
99
2608
1956
1304
652
0
SP.Syn.Skin−Melanoma::S.23(0.108)
74
32
9235
186
150
61
3916
2937
1958
979
0
preceded by 5'
followed by 3'


hdp.28
Proportion of exposure
0.0
0.1
0.2
0.3
0
500
1000
1500
Exposure


C>A
C>G
C>T
T>A
T>C
T>G
hdp.28
0.21
0.16
0.10
0.05
0.00
SP.Syn.Liver−HCC::S.47(0.38)
441
437
1006
351
1410
285
396
297
198
99
0
SP.Syn.Head−SCC::S.27(0.197)
467
838
1931
287
1123
292
396
297
198
99
0
SP.Syn.Liver−HCC::S.9(0.125)
1945
566
1331
665
1452
351
304
228
152
76
0
SP.Syn.CNS−Medullo::S.1(0.106)
116
194
531
129
402
125
100
75
50
25
0
SP.Syn.Head−SCC::S.28(0.106)
659
600
2092
547
2056
507
428
321
214
107
0
preceded by 5'
followed by 3'
A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T A C G T