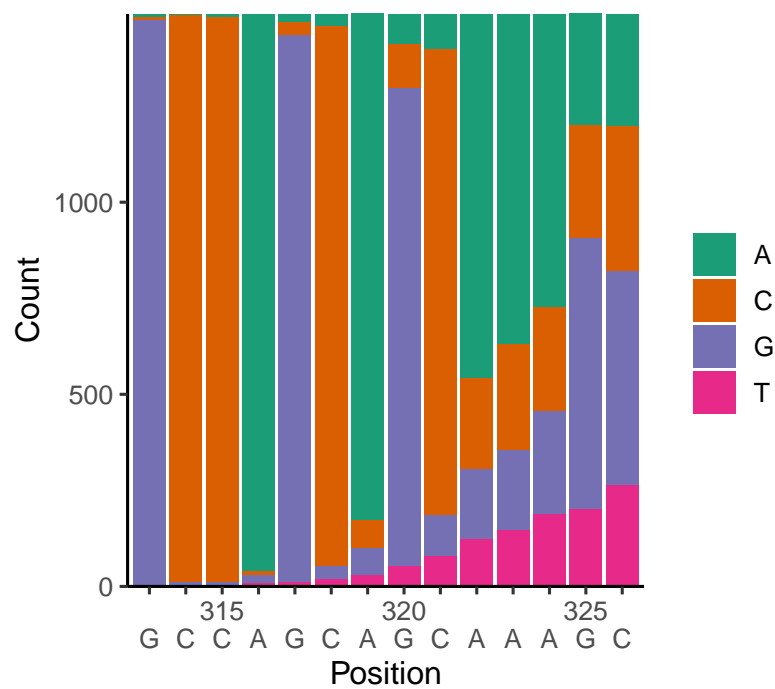
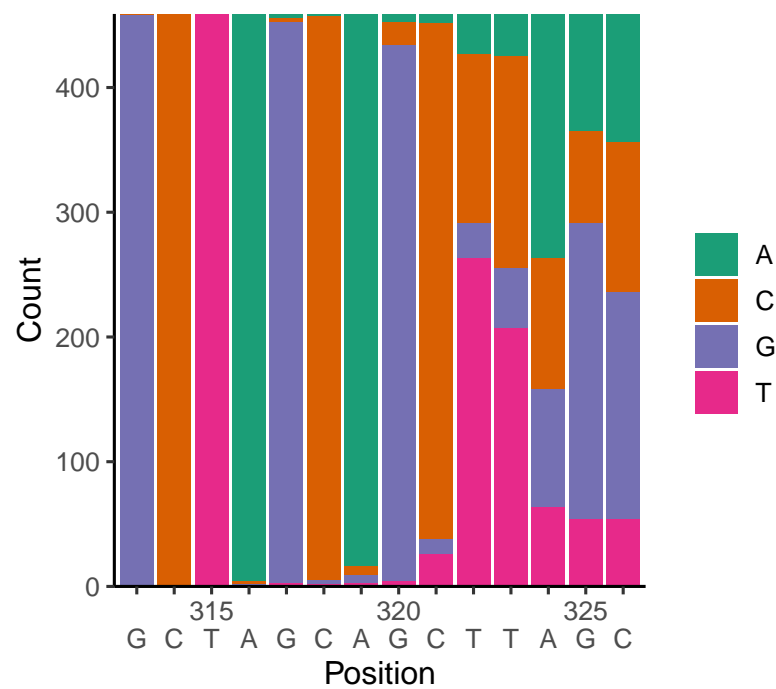


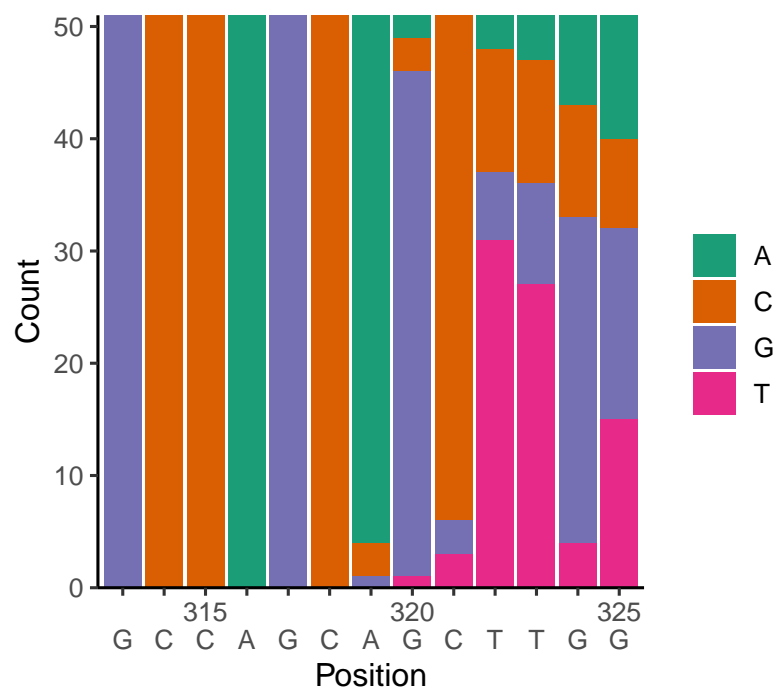
Gene TRBV21-1*ap01_T307C



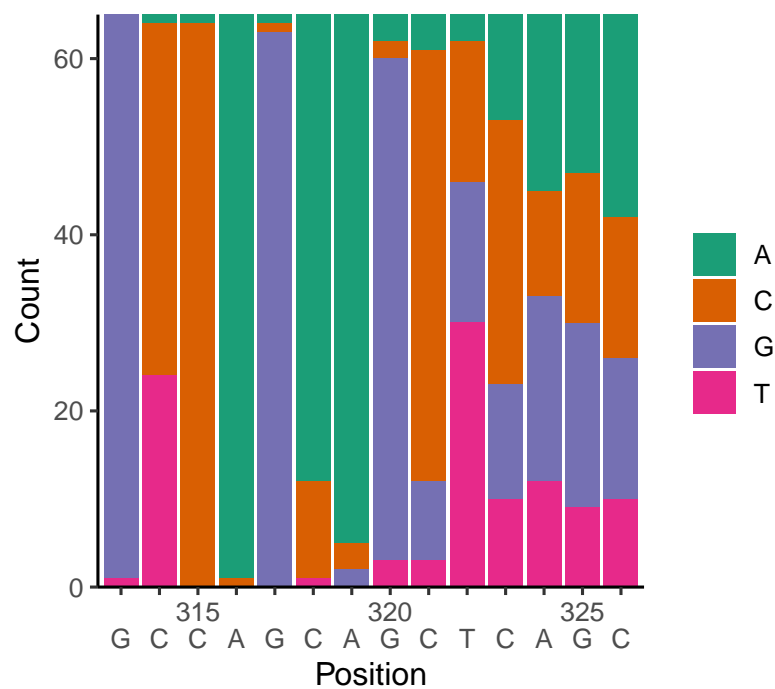
Gene TRBV7-7*ap01_C315T



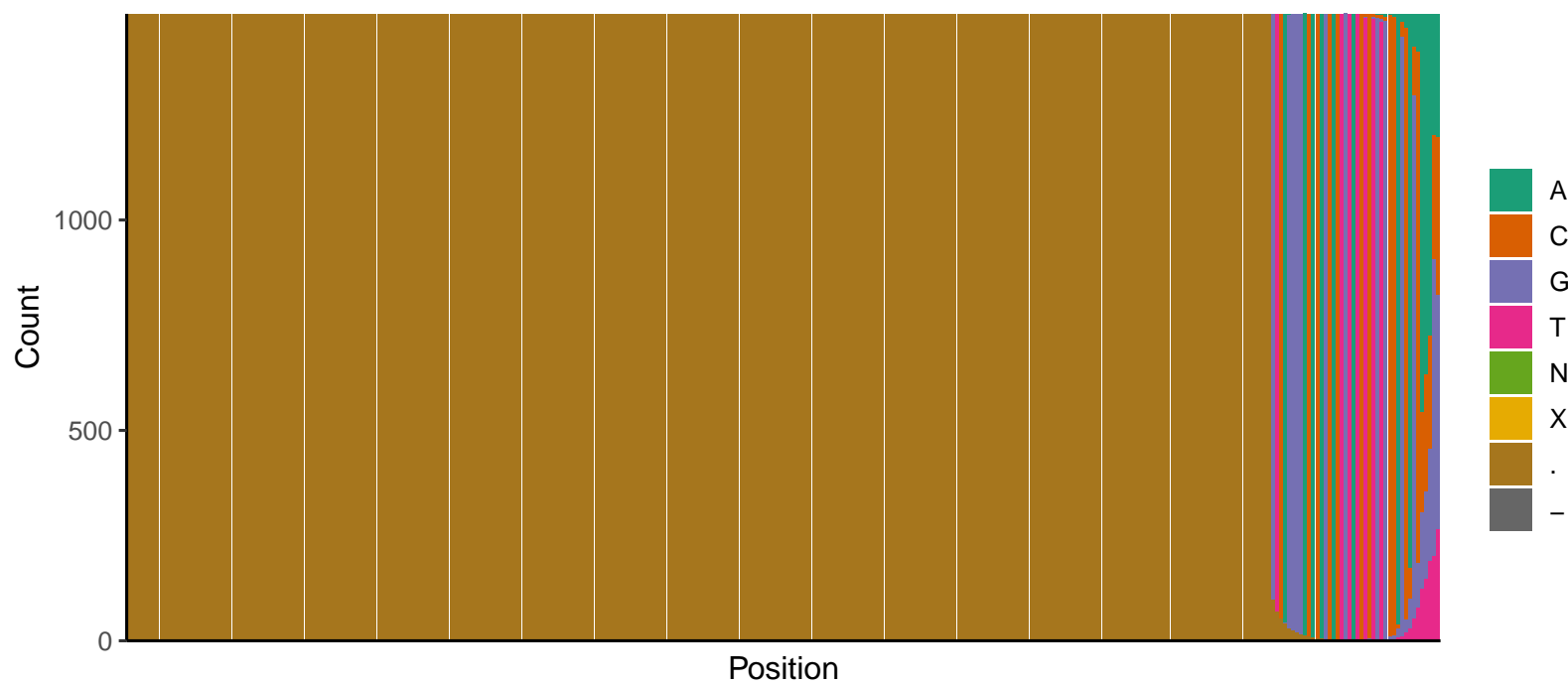
Gene TRBV5-7*ap01_G290A



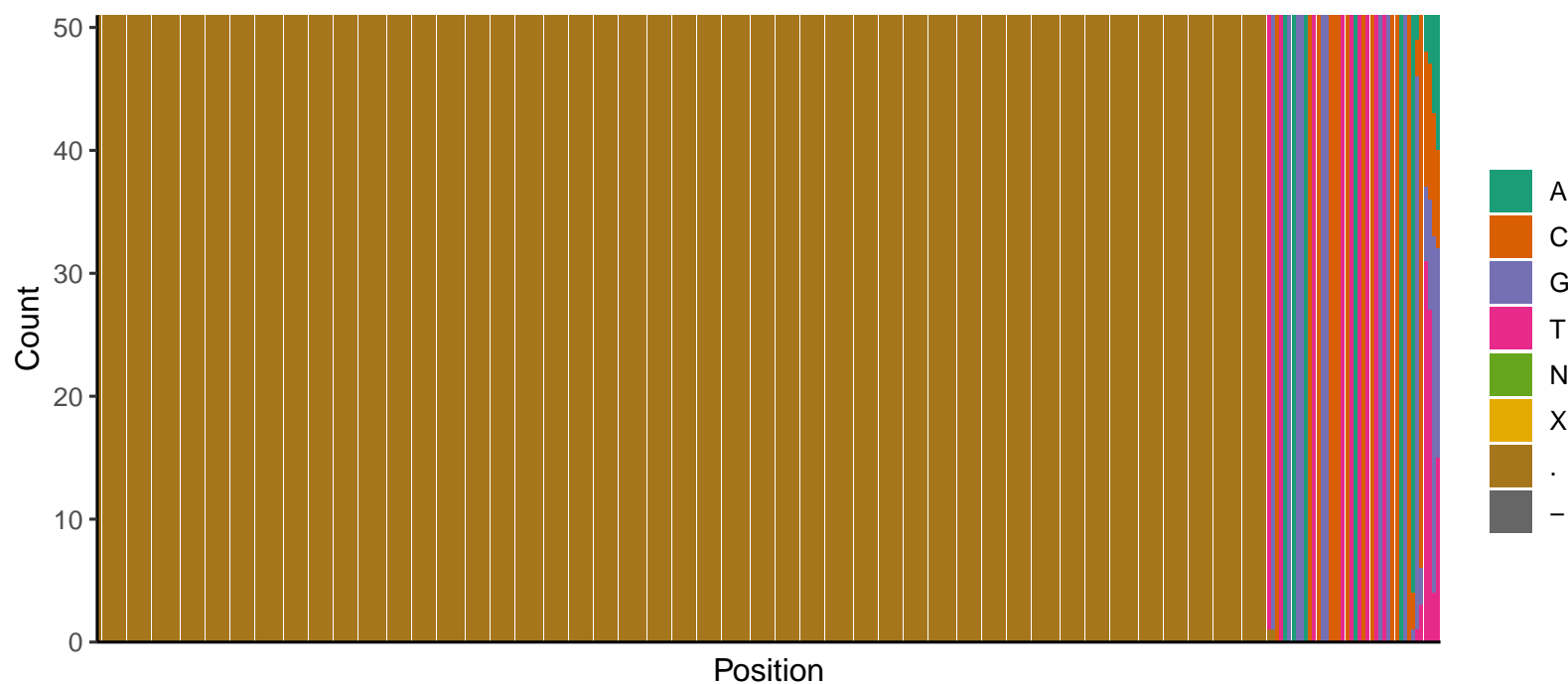
Gene TRBV7-1*ap01_T296C



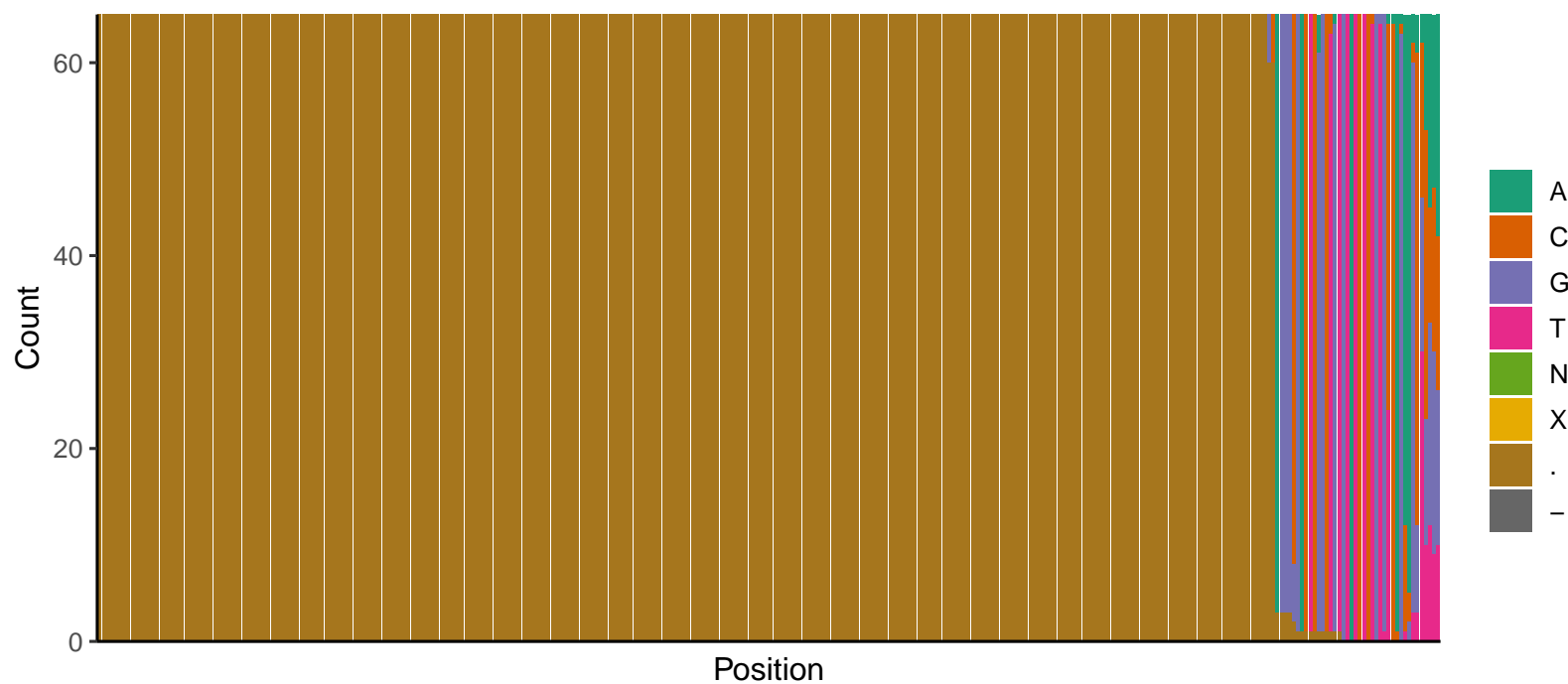
Gene TRBV21-1*ap01_T307C



Gene TRBV5-7*ap01_G290A



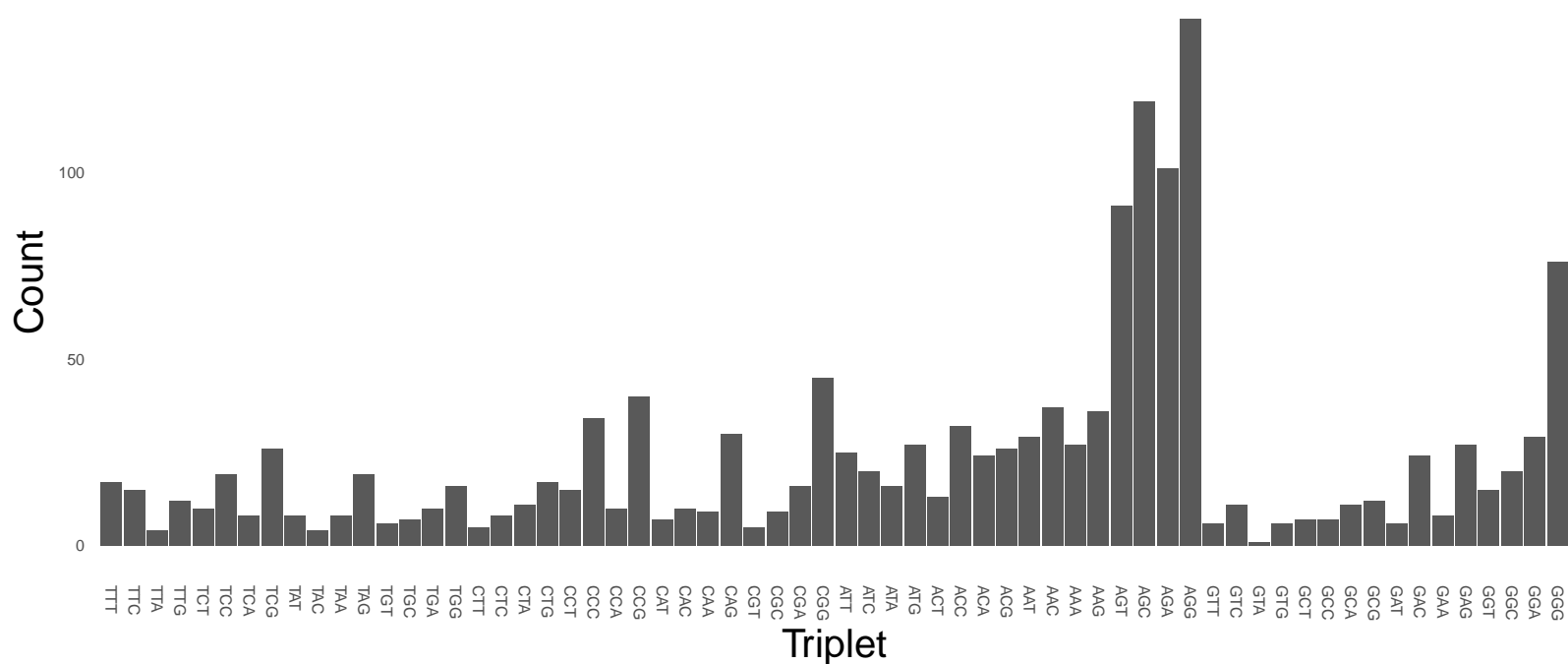
Gene TRBV7-1*ap01_T296C



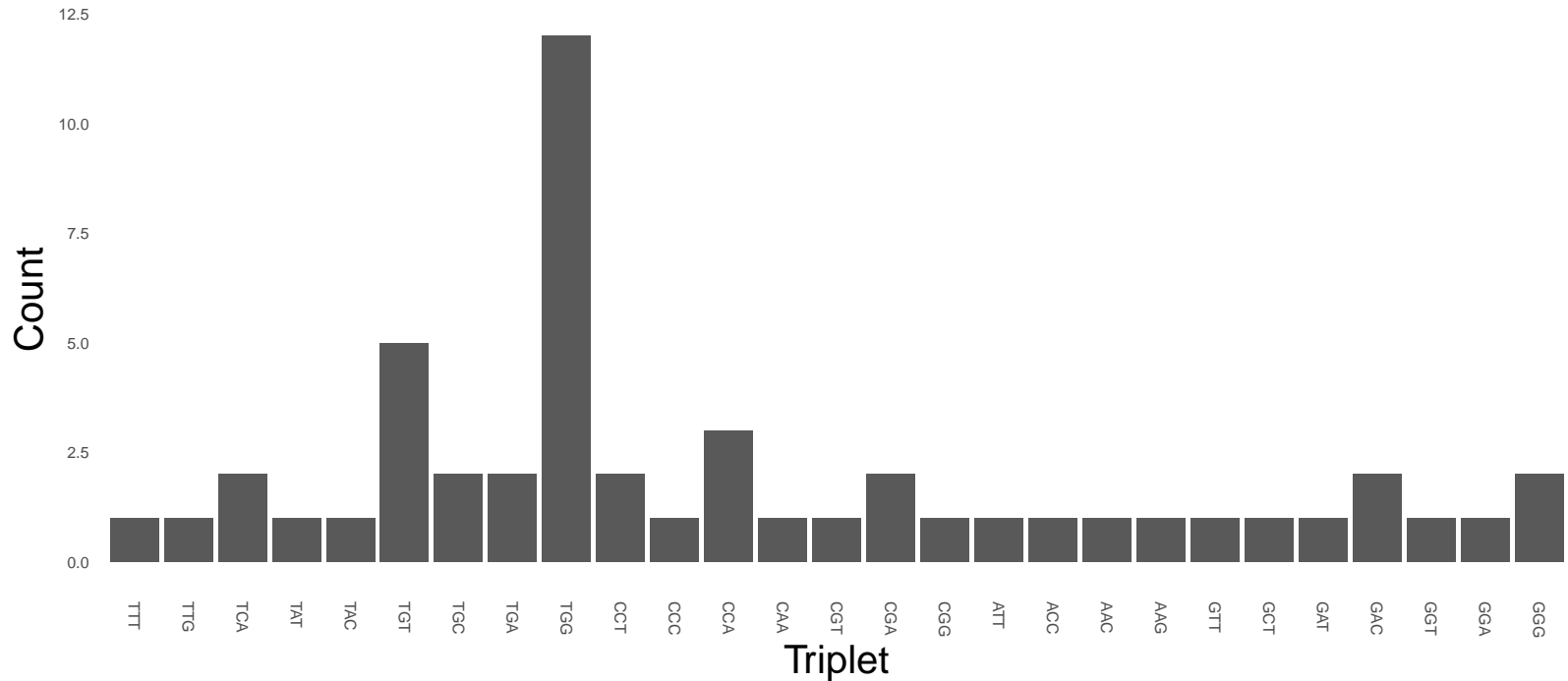
Gene TRBV7-7*ap01_C315T



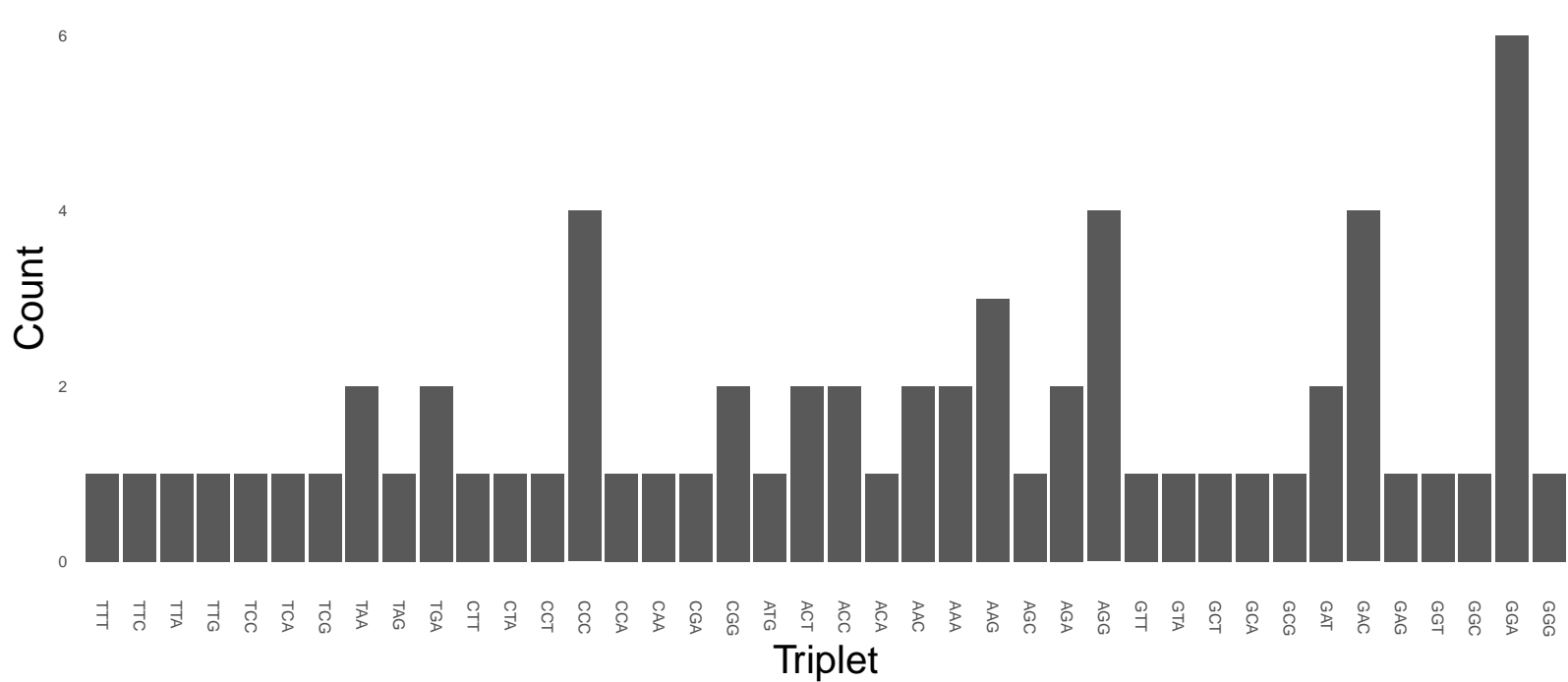
TRBV21–1*ap01_T307C– Final 3 nucleotides as a triplet



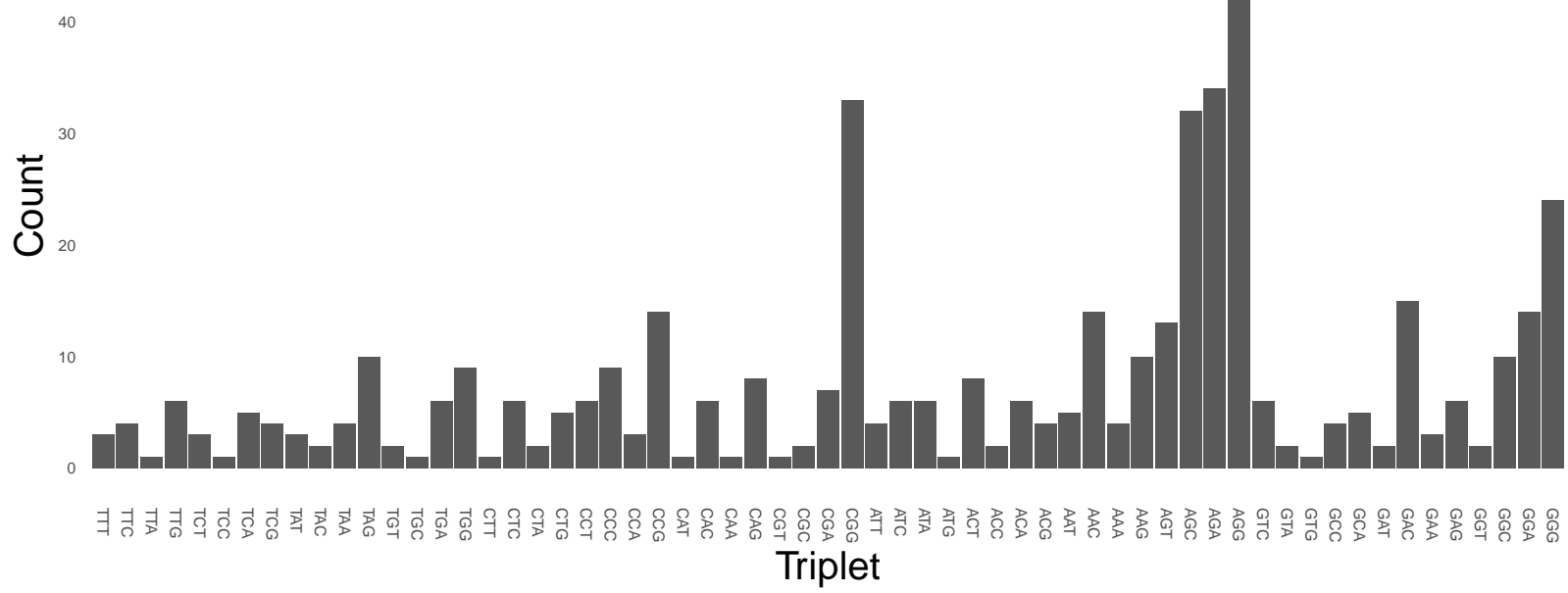
TRBV5–7*ap01_G290A– Final 3 nucleotides as a triplet



TRBV7–1*ap01_T296C– Final 3 nucleotides as a triplet

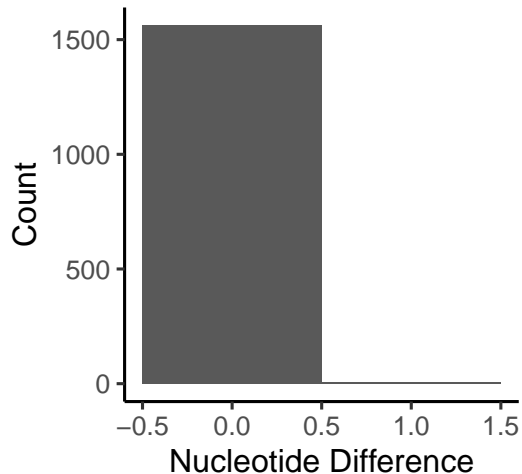


TRBV7-7*ap01_C315T- Final 3 nucleotides as a triplet



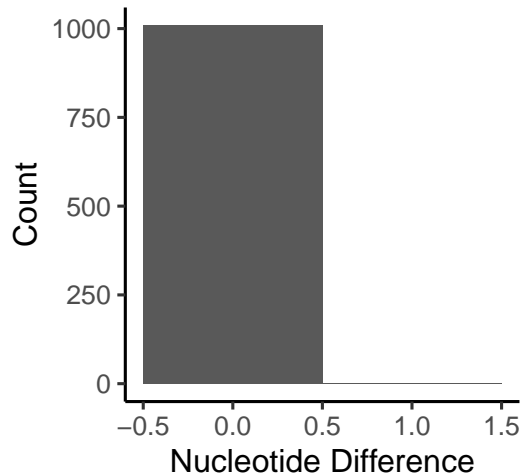
TRBV10-1*ap01

1569 sequences assigned
1562 (99.6%) exact matches, in which:
1553 unique CDR3
13 unique J



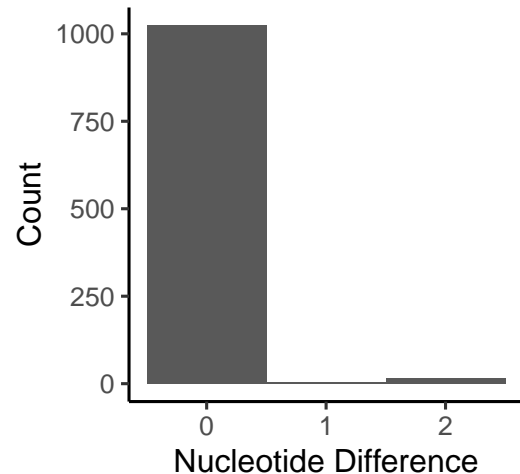
TRBV10-2*ap01

1011 sequences assigned
1009 (99.8%) exact matches, in which:
995 unique CDR3
13 unique J



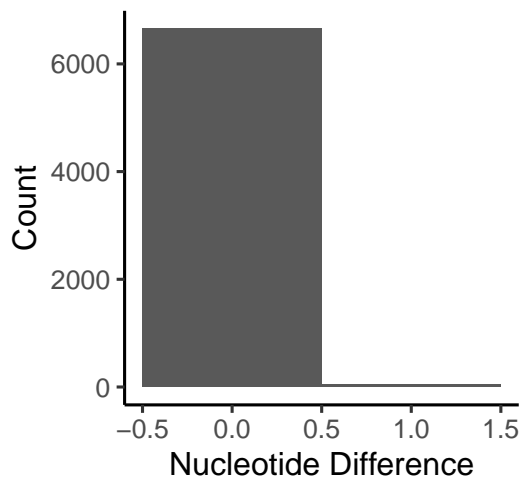
TRBV13*ap01

1042 sequences assigned
1024 (98.3%) exact matches, in which:
1014 unique CDR3
13 unique J



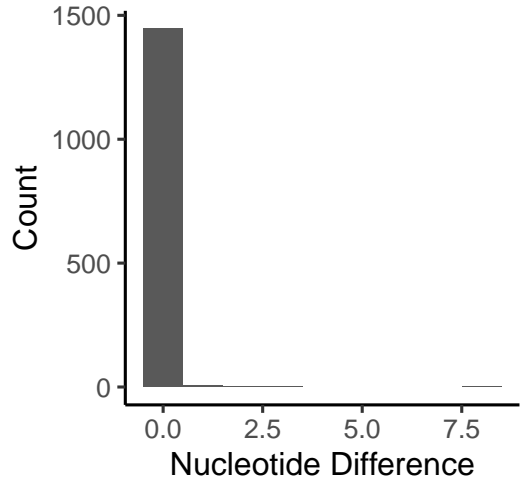
TRBV20-1*ap01

6692 sequences assigned
6653 (99.4%) exact matches, in which:
6610 unique CDR3
13 unique J



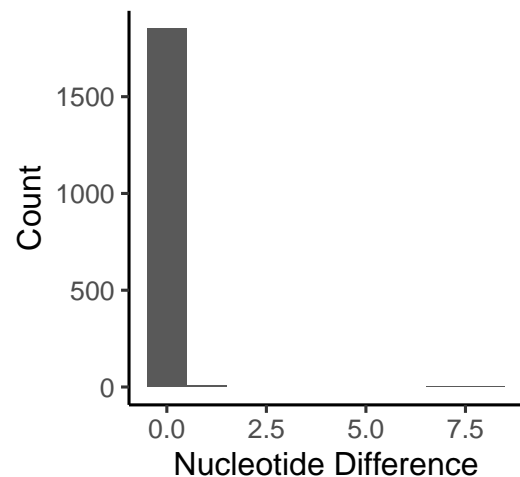
TRBV10-3*ap01

1459 sequences assigned
1446 (99.1%) exact matches, in which:
1435 unique CDR3
13 unique J



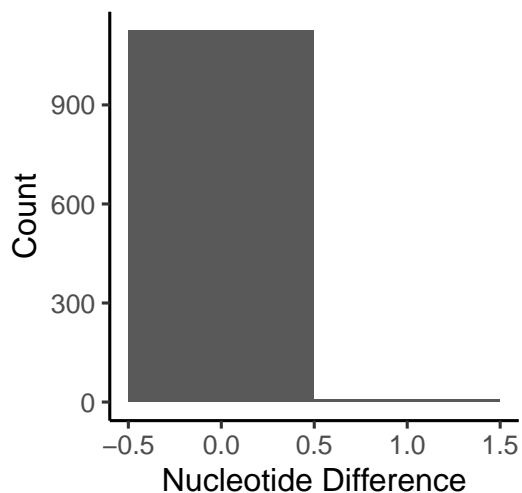
TRBV14*ap01

1859 sequences assigned
1851 (99.6%) exact matches, in which:
1840 unique CDR3
13 unique J



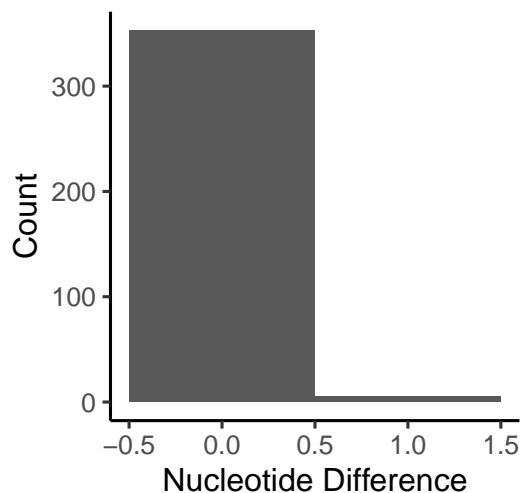
TRBV20-1*ap02

1133 sequences assigned
1126 (99.4%) exact matches, in which:
1115 unique CDR3
13 unique J



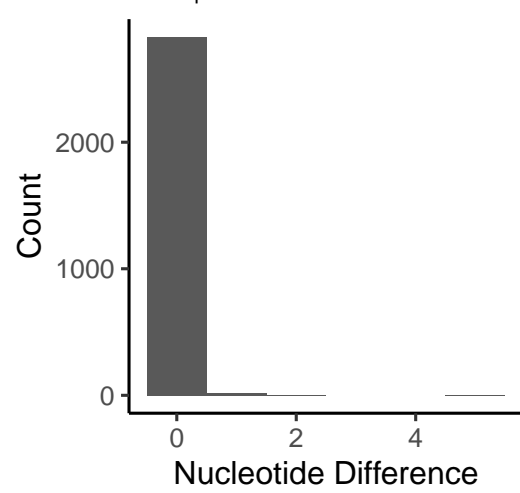
TRBV1*ap01

358 sequences assigned
353 (98.6%) exact matches, in which:
346 unique CDR3
13 unique J



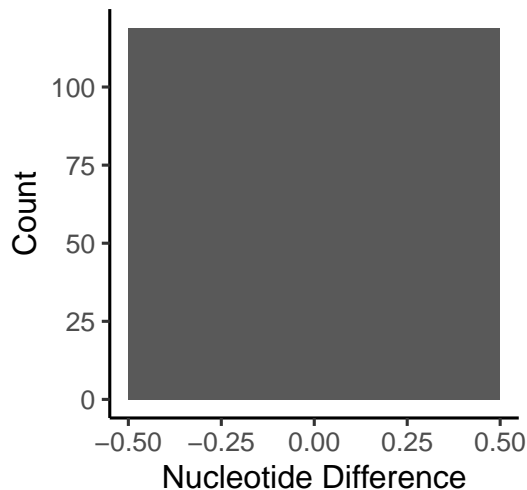
TRBV15*ap02

2852 sequences assigned
2831 (99.3%) exact matches, in which:
2800 unique CDR3
13 unique J



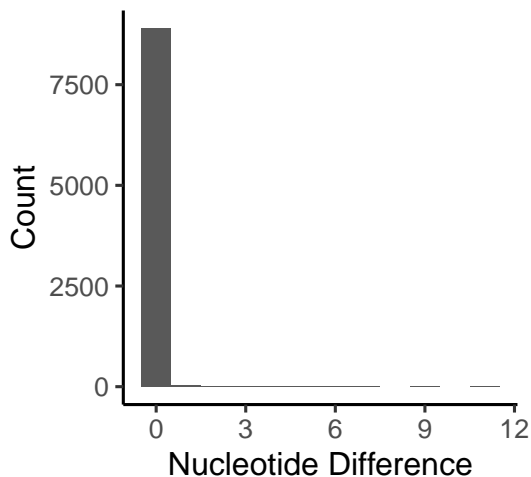
TRBV16*ap01

119 sequences assigned
119 (100%) exact matches, in which:
118 unique CDR3
12 unique J



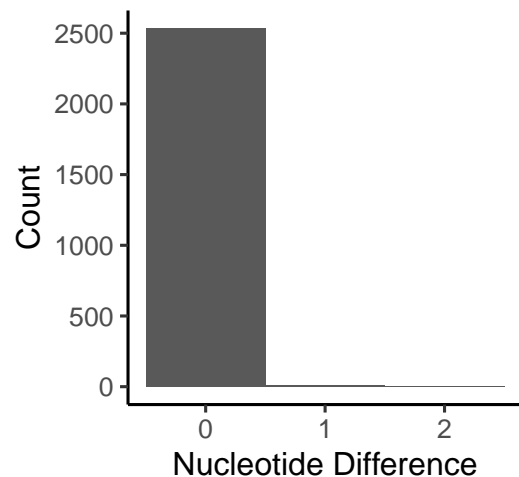
TRBV19*ap01

8956 sequences assigned
8897 (99.3%) exact matches, in which:
8862 unique CDR3
13 unique J



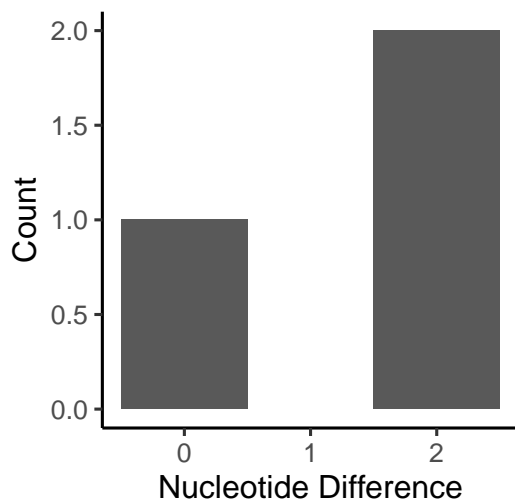
TRBV28*ap01

2549 sequences assigned
2534 (99.4%) exact matches, in which:
2523 unique CDR3
13 unique J



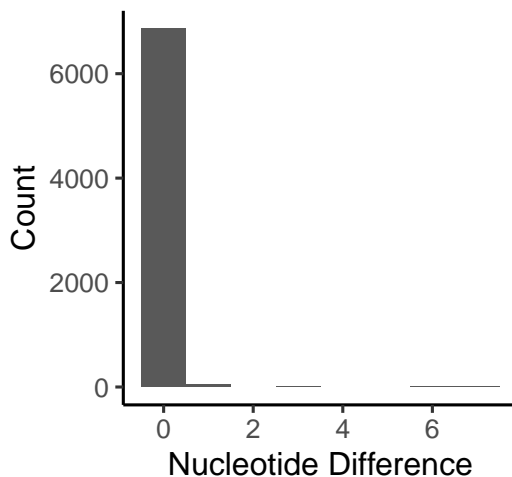
TRBV17*ap01

3 sequences assigned
1 (33.3%) exact matches, in which:
1 unique CDR3
1 unique J



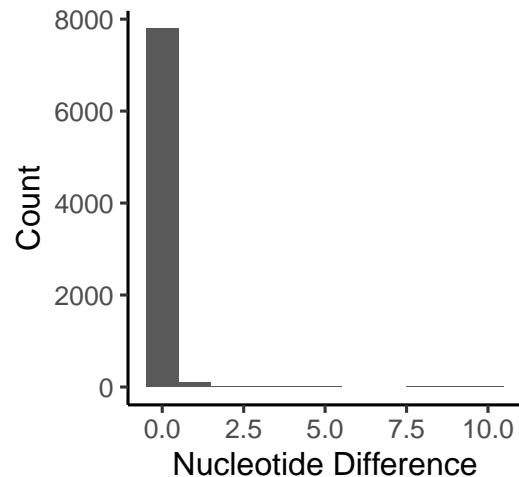
TRBV2*ap01

6916 sequences assigned
6861 (99.2%) exact matches, in which:
6803 unique CDR3
13 unique J



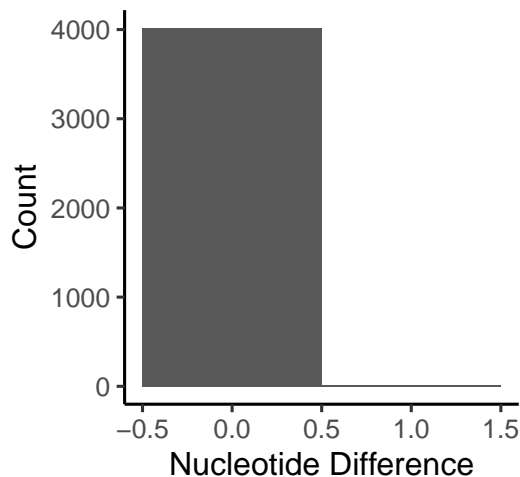
TRBV30*ap02

7912 sequences assigned
7791 (98.5%) exact matches, in which:
7654 unique CDR3
13 unique J



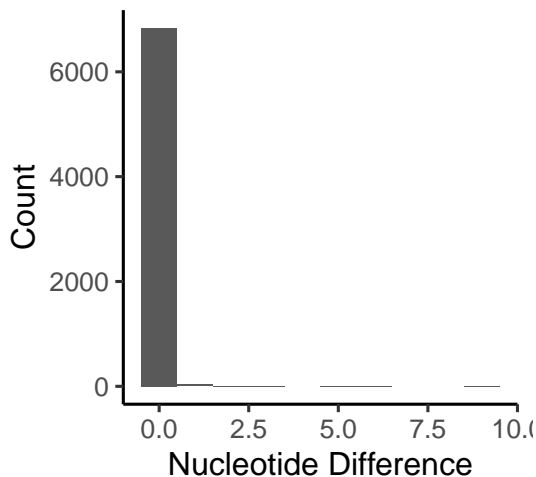
TRBV18*ap01

4032 sequences assigned
4017 (99.6%) exact matches, in which:
3993 unique CDR3
13 unique J



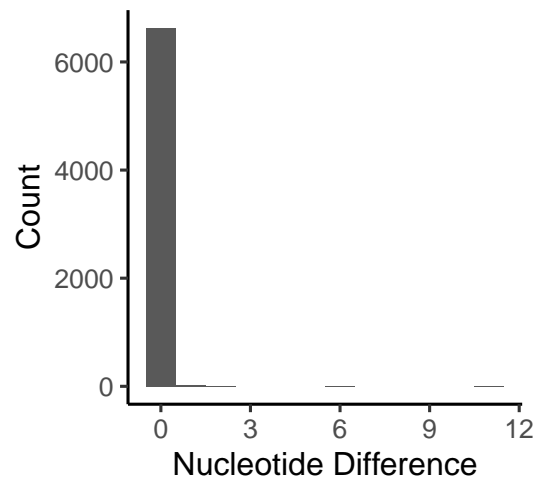
TRBV27*ap01

6880 sequences assigned
6835 (99.3%) exact matches, in which:
6779 unique CDR3
13 unique J



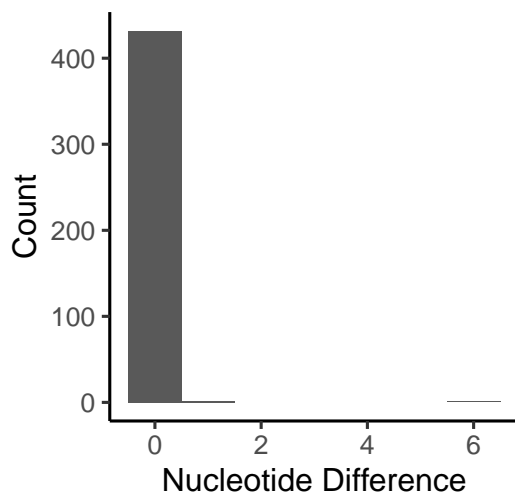
TRBV9*ap01

6657 sequences assigned
6627 (99.5%) exact matches, in which:
6588 unique CDR3
13 unique J



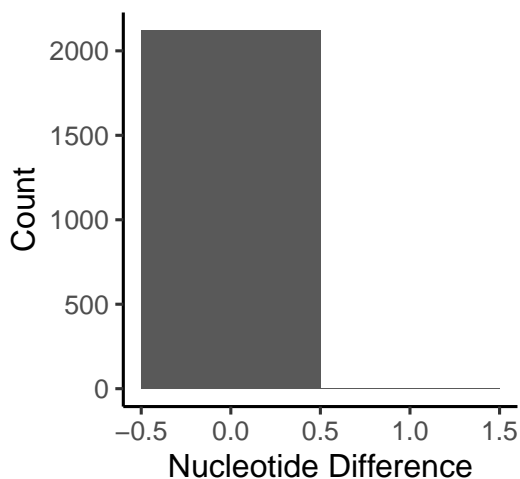
TRBV11-1*ap01

435 sequences assigned
432 (99.3%) exact matches, in which:
429 unique CDR3
13 unique J



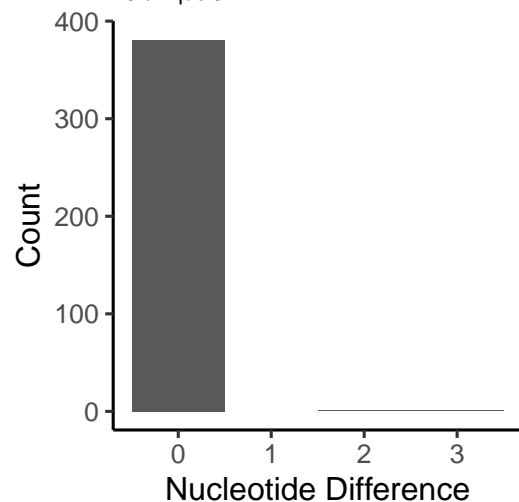
TRBV11-2*ap01

2123 sequences assigned
2121 (99.9%) exact matches, in which:
2113 unique CDR3
13 unique J



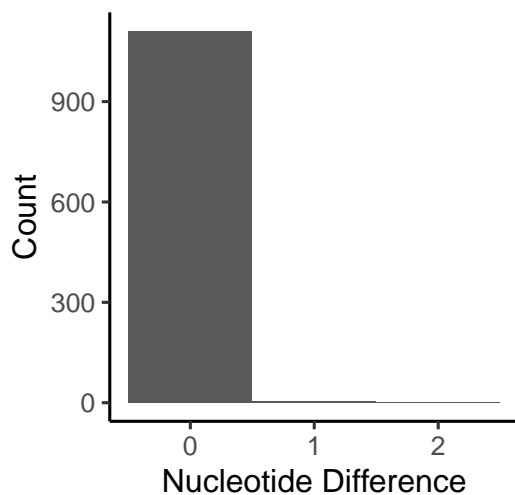
TRBV12-2*ap01

383 sequences assigned
381 (99.5%) exact matches, in which:
381 unique CDR3
13 unique J



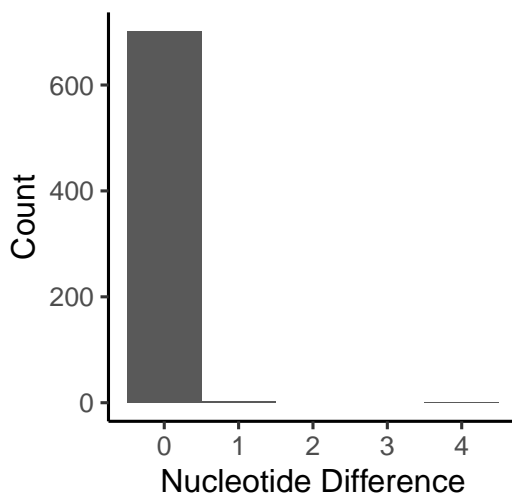
TRBV21-1*ap01

1117 sequences assigned
1111 (99.5%) exact matches, in which:
1105 unique CDR3
13 unique J



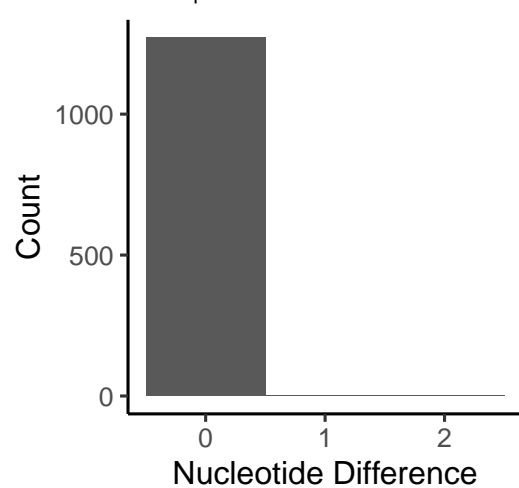
TRBV11-3*ap01

705 sequences assigned
702 (99.6%) exact matches, in which:
700 unique CDR3
13 unique J



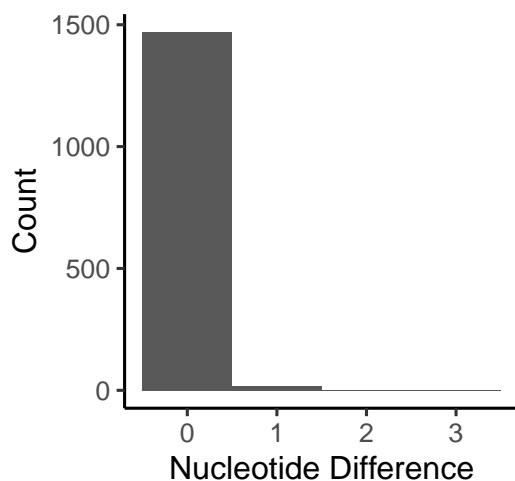
TRBV12-5*ap01

1275 sequences assigned
1271 (99.7%) exact matches, in which:
1262 unique CDR3
13 unique J



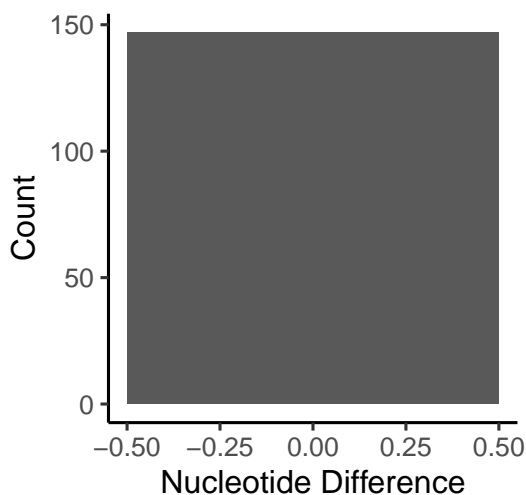
TRBV21-1*ap01_T307C

1490 sequences assigned
1470 (98.7%) exact matches, in which:
1460 unique CDR3
13 unique J



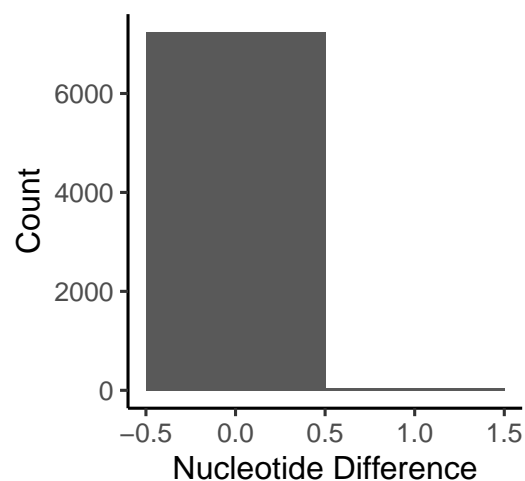
TRBV12-1*ap01

147 sequences assigned
147 (100%) exact matches, in which:
145 unique CDR3
13 unique J



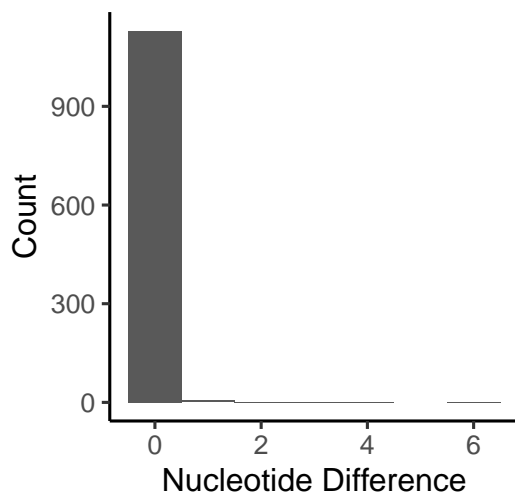
TRBV12-34*ap01

7290 sequences assigned
7242 (99.3%) exact matches, in which:
7185 unique CDR3
13 unique J



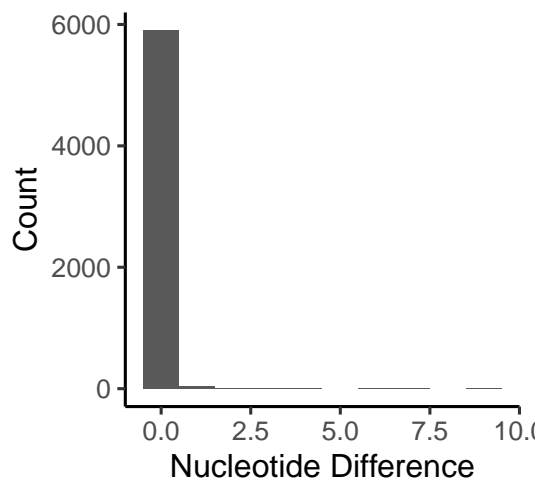
TRBV23-1*ap01

1141 sequences assigned
1130 (99%) exact matches, in which:
1125 unique CDR3
13 unique J



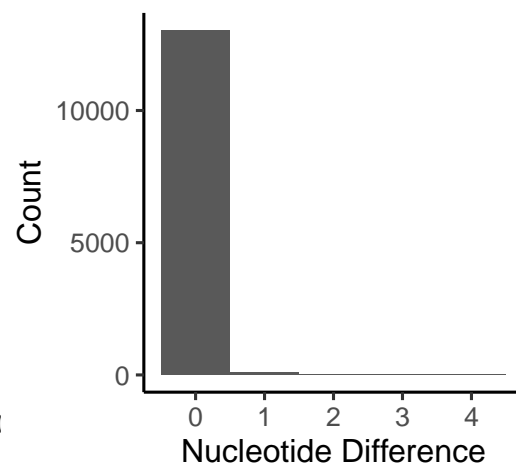
TRBV24-1*ap01

5947 sequences assigned
5902 (99.2%) exact matches, in which:
5848 unique CDR3
13 unique J



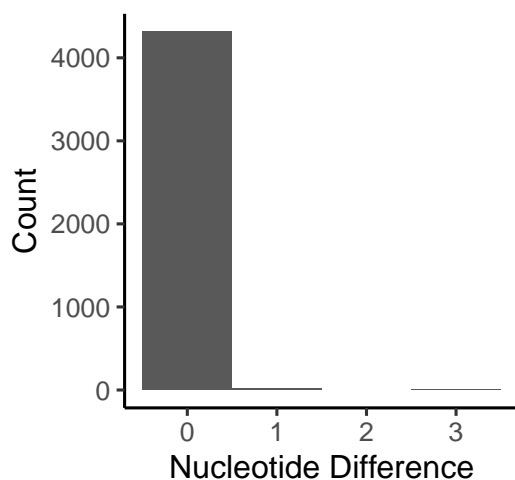
TRBV5-1*ap01

13130 sequences assigned
13039 (99.3%) exact matches, in which:
12867 unique CDR3
13 unique J



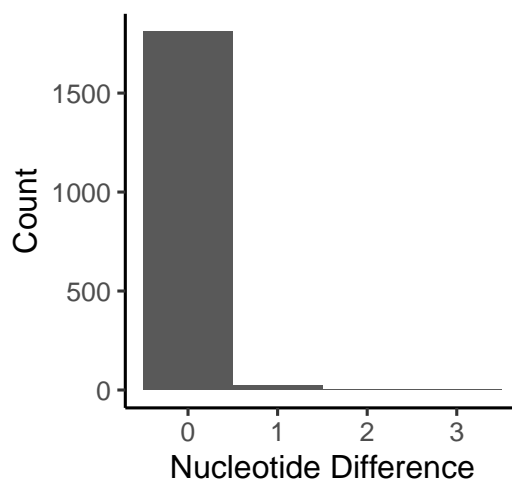
TRBV3-12*ap01

4335 sequences assigned
4314 (99.5%) exact matches, in which:
4303 unique CDR3
13 unique J



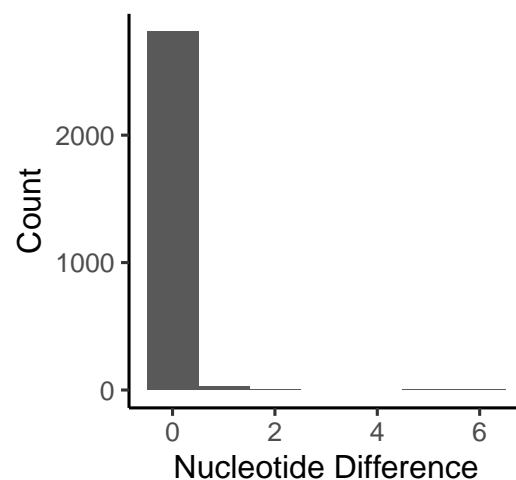
TRBV4-2*ap01

1833 sequences assigned
1810 (98.7%) exact matches, in which:
1795 unique CDR3
13 unique J



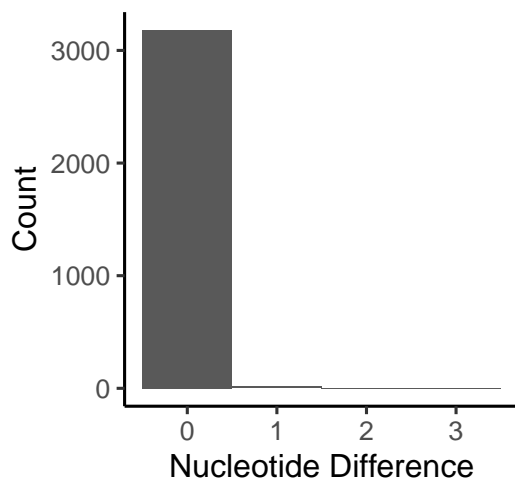
TRBV25-1*ap01

2845 sequences assigned
2812 (98.8%) exact matches, in which:
2771 unique CDR3
13 unique J



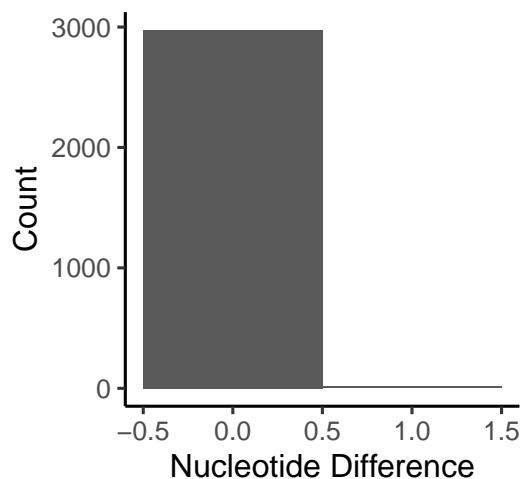
TRBV4-1*ap01

3198 sequences assigned
3181 (99.5%) exact matches, in which:
3134 unique CDR3
13 unique J



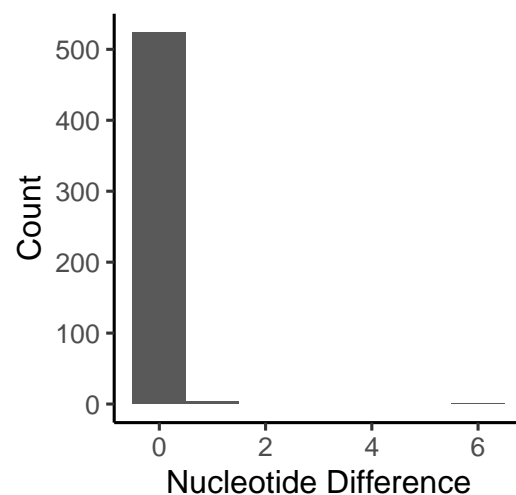
TRBV4-3*ap01

2991 sequences assigned
2975 (99.5%) exact matches, in which:
2925 unique CDR3
13 unique J



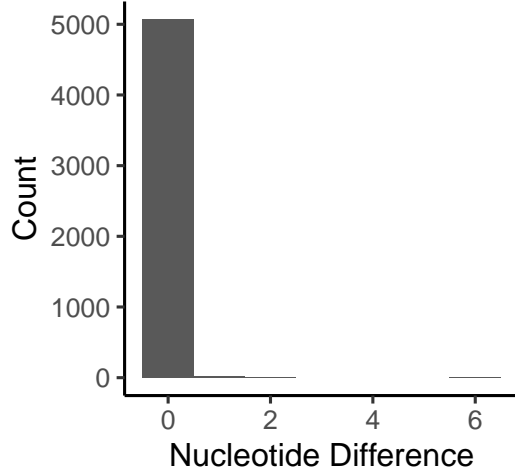
TRBV5-3*ap01

528 sequences assigned
524 (99.2%) exact matches, in which:
520 unique CDR3
13 unique J



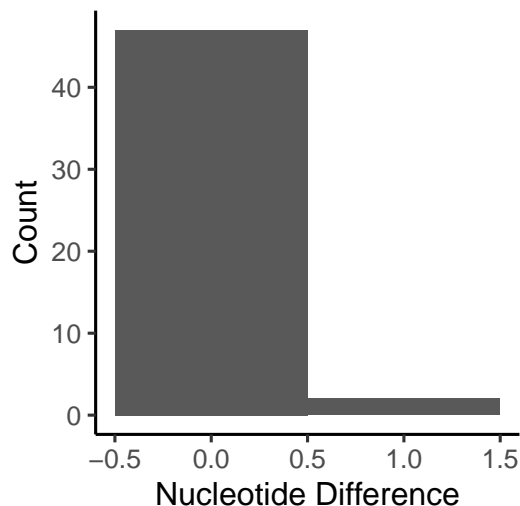
TRBV5-4*ap01

5098 sequences assigned
5069 (99.4%) exact matches, in which:
5002 unique CDR3
13 unique J



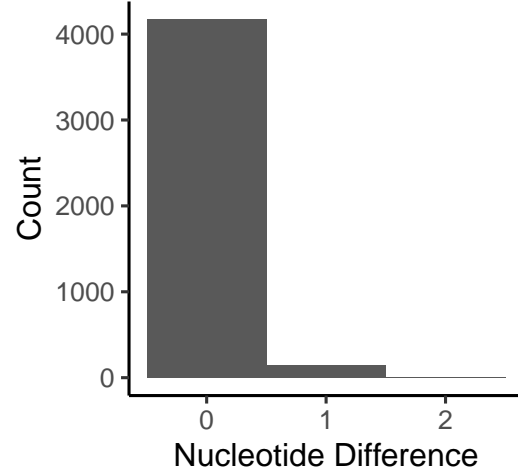
TRBV5-7*ap01

49 sequences assigned
47 (95.9%) exact matches, in which:
46 unique CDR3
10 unique J



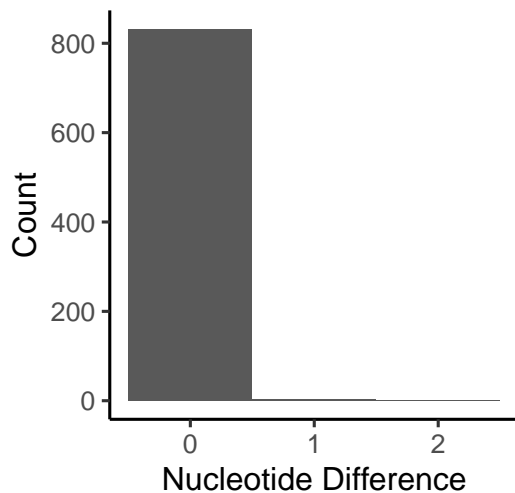
TRBV6-1*ap01

4316 sequences assigned
4171 (96.6%) exact matches, in which:
4136 unique CDR3
13 unique J



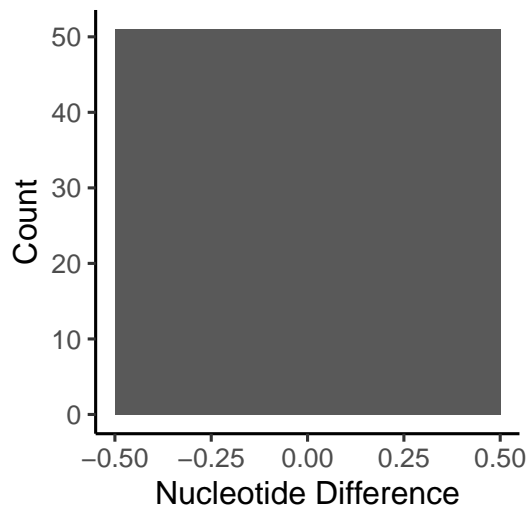
TRBV5-5*ap01

837 sequences assigned
832 (99.4%) exact matches, in which:
827 unique CDR3
13 unique J



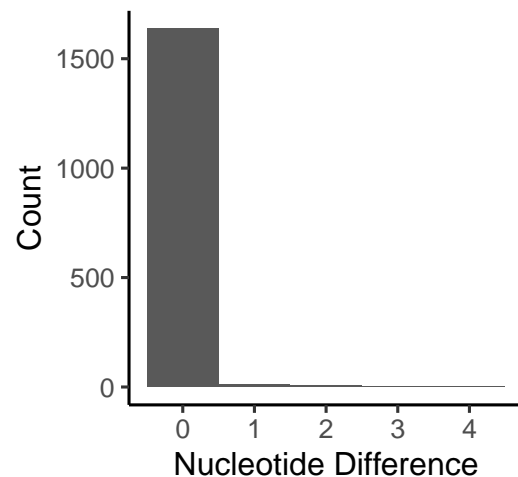
TRBV5-7*ap01_G290A

51 sequences assigned
51 (100%) exact matches, in which:
49 unique CDR3
12 unique J



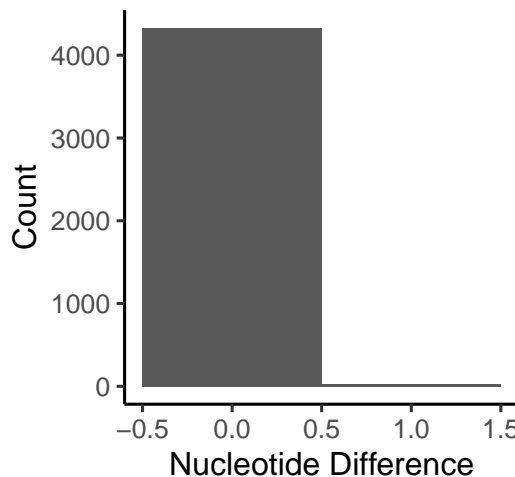
TRBV6-4*ap01

1658 sequences assigned
1637 (98.7%) exact matches, in which:
1625 unique CDR3
13 unique J



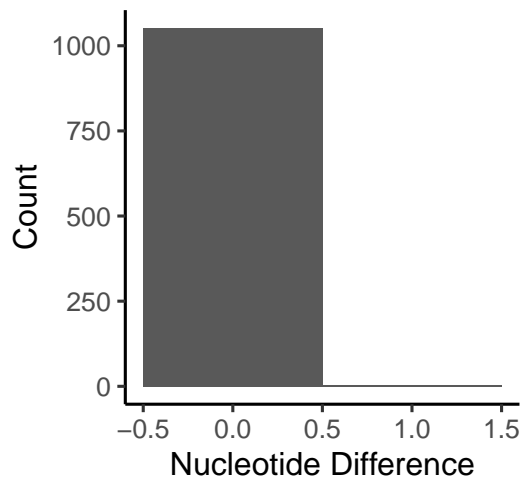
TRBV5-6*ap01

4354 sequences assigned
4328 (99.4%) exact matches, in which:
4269 unique CDR3
13 unique J



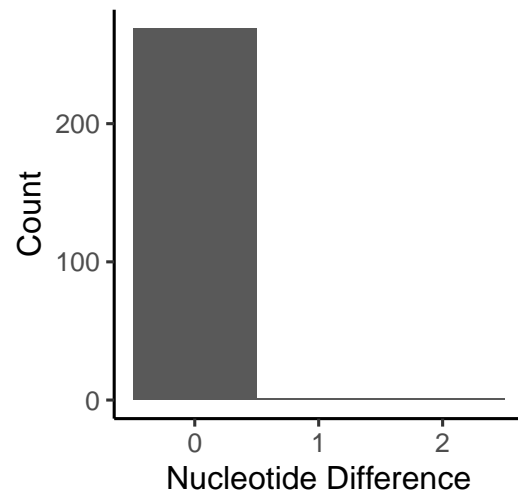
TRBV5-8*ap01

1056 sequences assigned
1052 (99.6%) exact matches, in which:
1040 unique CDR3
13 unique J



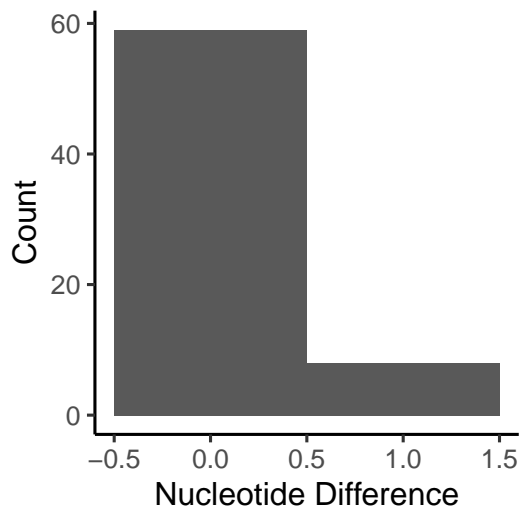
TRBV6-7*ap01

271 sequences assigned
269 (99.3%) exact matches, in which:
265 unique CDR3
13 unique J



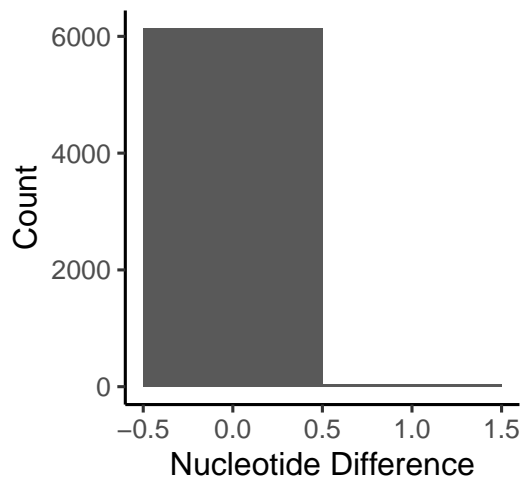
TRBV6-8*ap01

67 sequences assigned
59 (88.1%) exact matches, in which:
59 unique CDR3
11 unique J



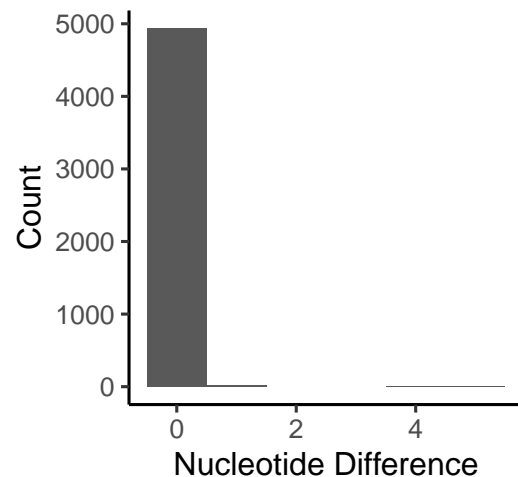
TRBV6-56*ap01

6174 sequences assigned
6136 (99.4%) exact matches, in which:
6057 unique CDR3
13 unique J



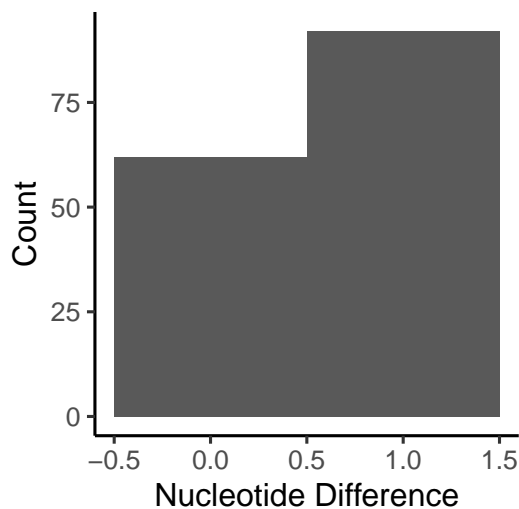
TRBV7-2*ap01

4962 sequences assigned
4936 (99.5%) exact matches, in which:
4895 unique CDR3
13 unique J



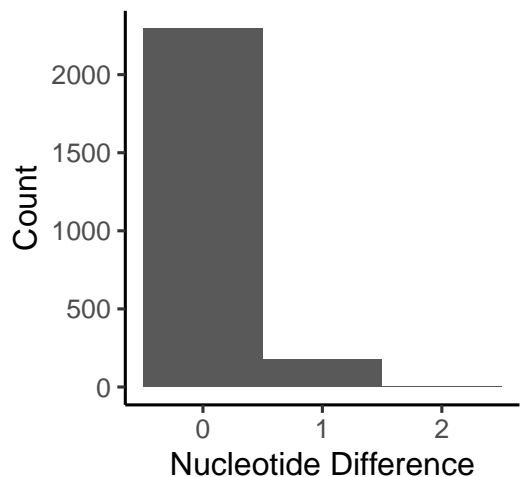
TRBV6-9*ap01

154 sequences assigned
62 (40.3%) exact matches, in which:
60 unique CDR3
12 unique J



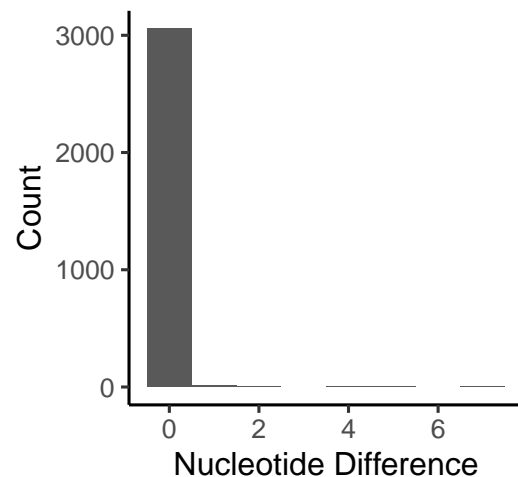
TRBV6-56*ap02

2473 sequences assigned
2294 (92.8%) exact matches, in which:
2270 unique CDR3
13 unique J



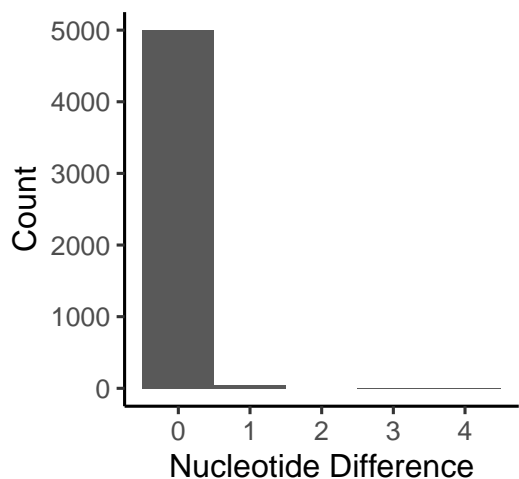
TRBV7-3*ap01

3076 sequences assigned
3056 (99.3%) exact matches, in which:
3044 unique CDR3
13 unique J



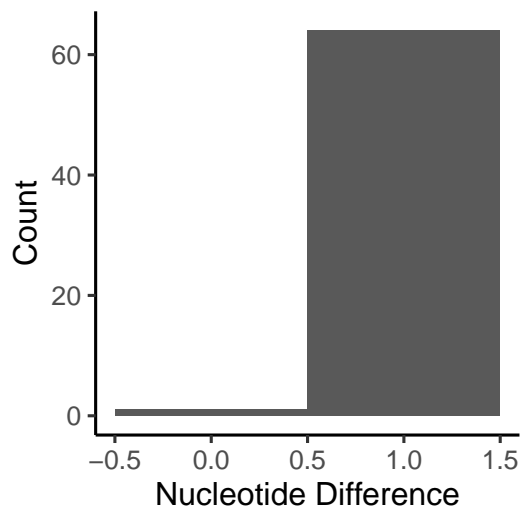
TRBV6-23*ap01

5045 sequences assigned
5001 (99.1%) exact matches, in which:
4923 unique CDR3
13 unique J



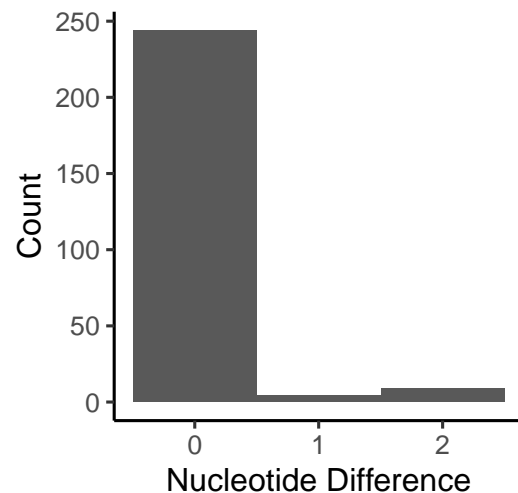
TRBV7-1*ap01_T296C

65 sequences assigned
1 (1.5%) exact matches, in which:
1 unique CDR3
1 unique J



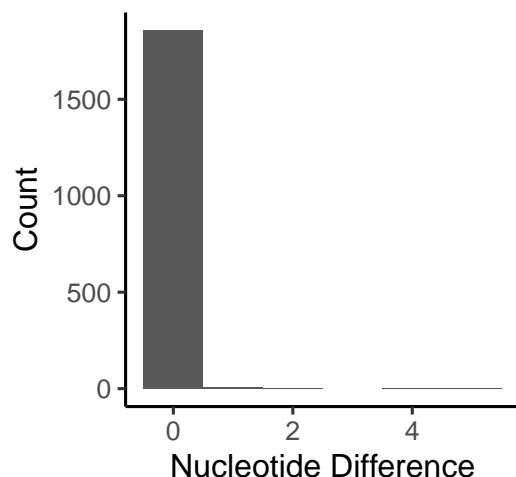
TRBV7-4*ap01

257 sequences assigned
244 (94.9%) exact matches, in which:
242 unique CDR3
13 unique J



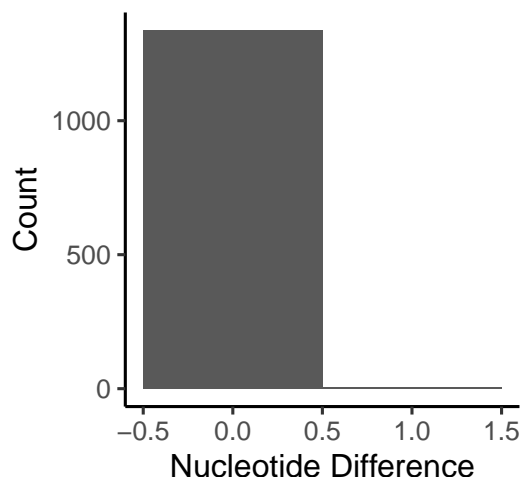
TRBV7-6*ap01

1870 sequences assigned
1857 (99.3%) exact matches, in which:
1830 unique CDR3
13 unique J



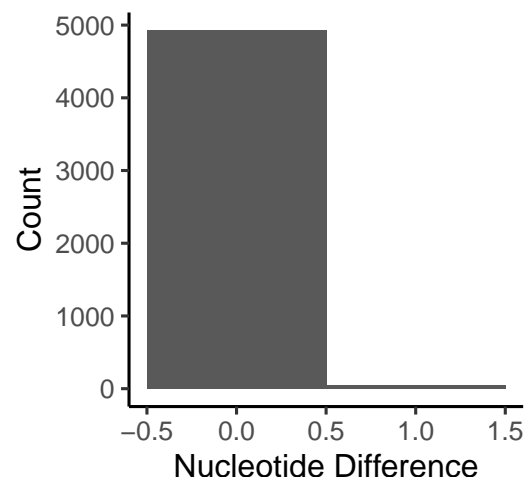
TRBV7-8*ap01

1342 sequences assigned
1337 (99.6%) exact matches, in which:
1323 unique CDR3
13 unique J



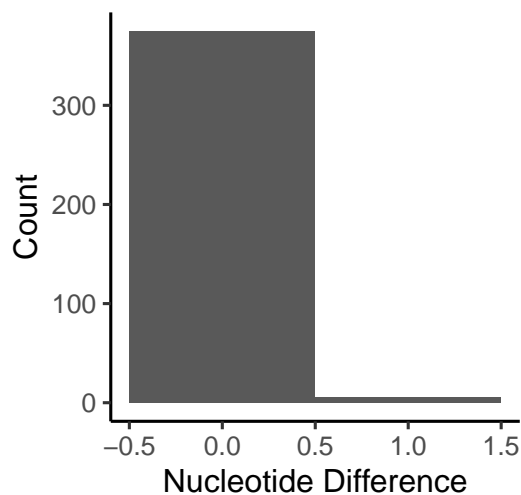
TRBV29-1*ap01

4974 sequences assigned
4927 (99.1%) exact matches, in which:
4829 unique CDR3
13 unique J



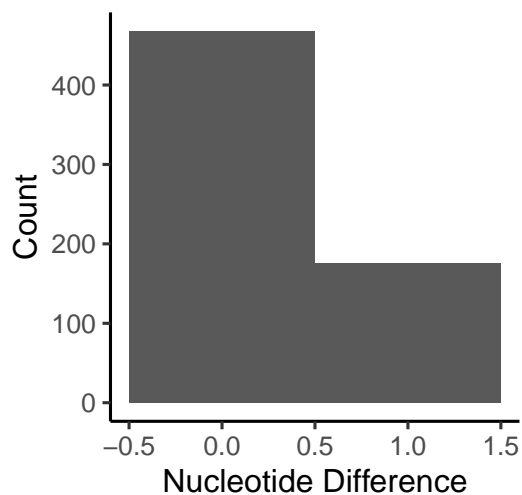
TRBV7-7*ap01

381 sequences assigned
375 (98.4%) exact matches, in which:
371 unique CDR3
13 unique J



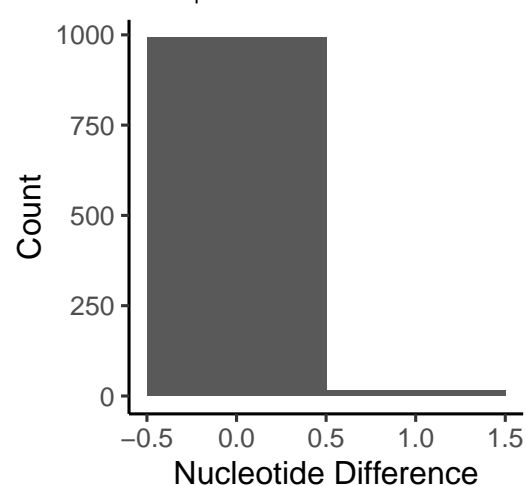
TRBV7-8*ap03

644 sequences assigned
468 (72.7%) exact matches, in which:
463 unique CDR3
13 unique J



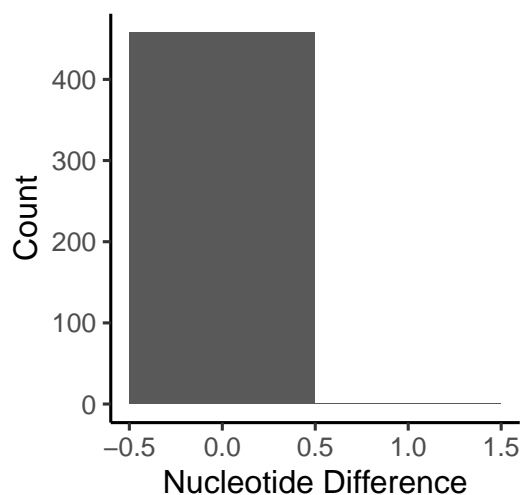
TRBV29-1*ap02

1006 sequences assigned
992 (98.6%) exact matches, in which:
976 unique CDR3
13 unique J



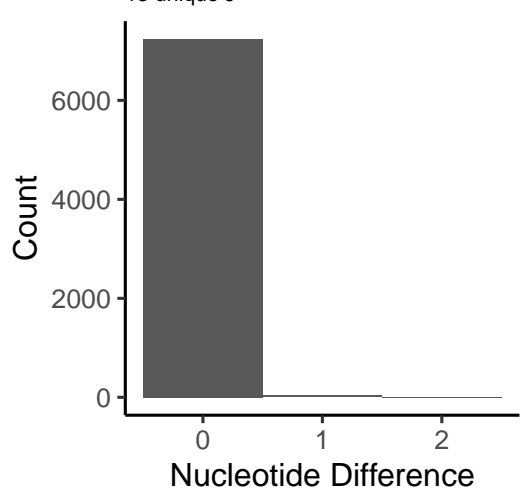
TRBV7-7*ap01_C315T

459 sequences assigned
458 (99.8%) exact matches, in which:
454 unique CDR3
13 unique J

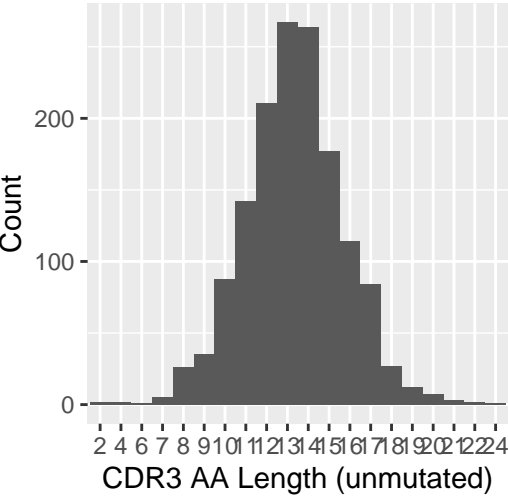


TRBV7-9*ap01

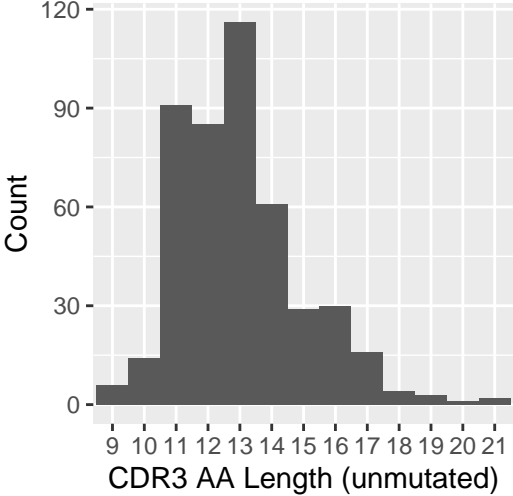
7282 sequences assigned
7239 (99.4%) exact matches, in which:
7182 unique CDR3
13 unique J



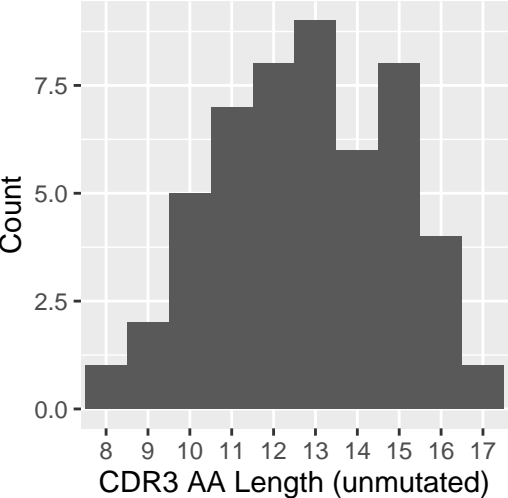
TRBV21-1*ap01_T307C



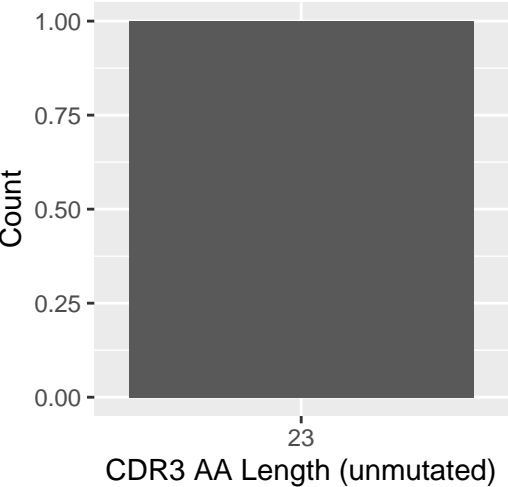
TRBV7-7*ap01_C315T



TRBV5-7*ap01_G290A



TRBV7-1*ap01_T296C





[illegible]