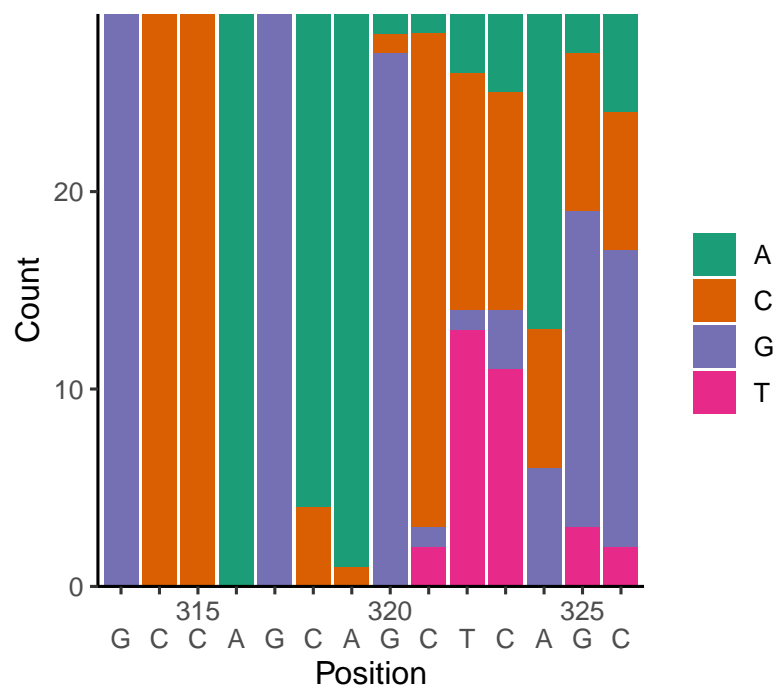
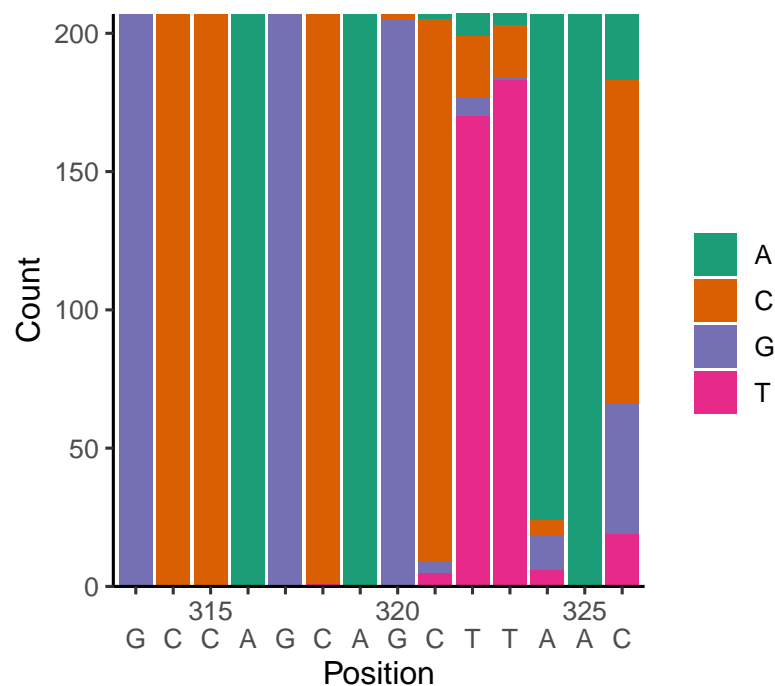


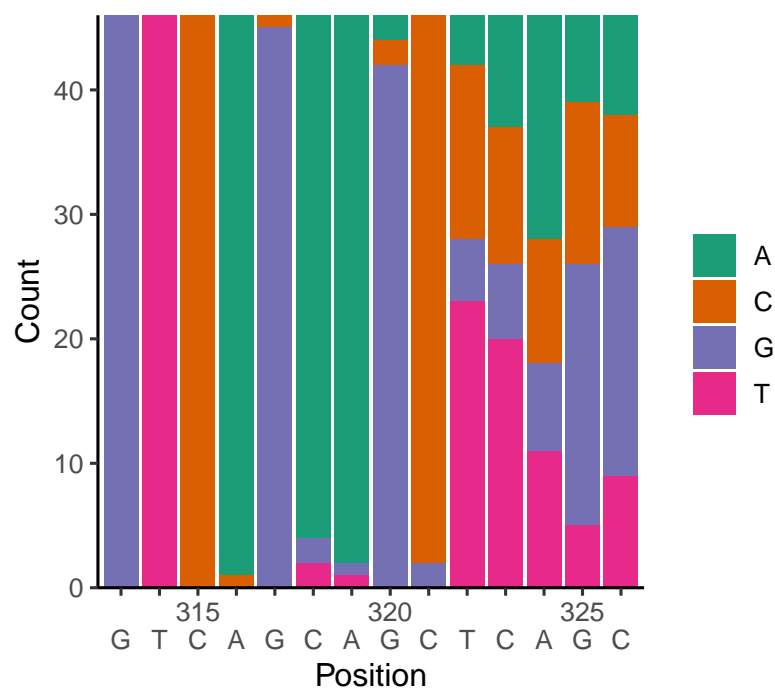
Gene TRBV7-1*ap01_G291C_T296C



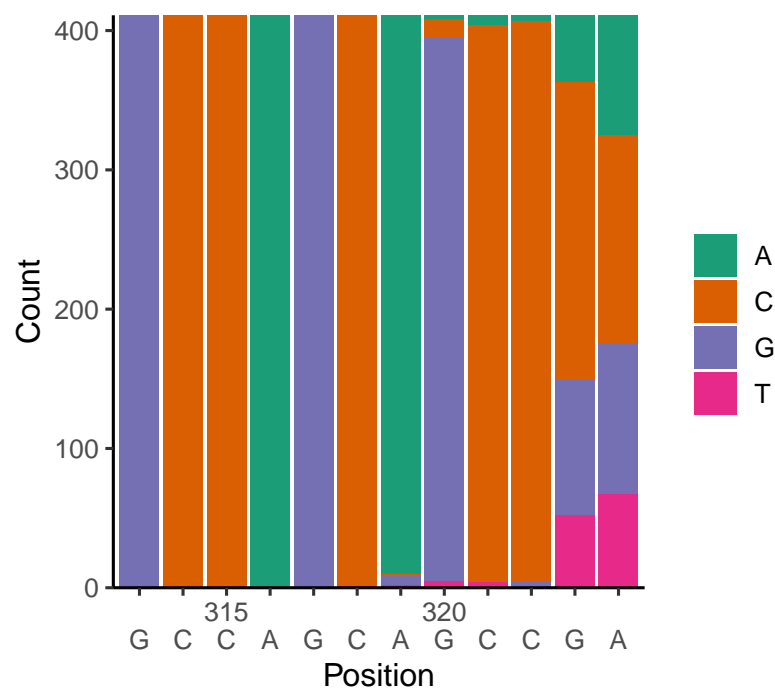
Gene TRBV7-3*ap02_G290A_C310T



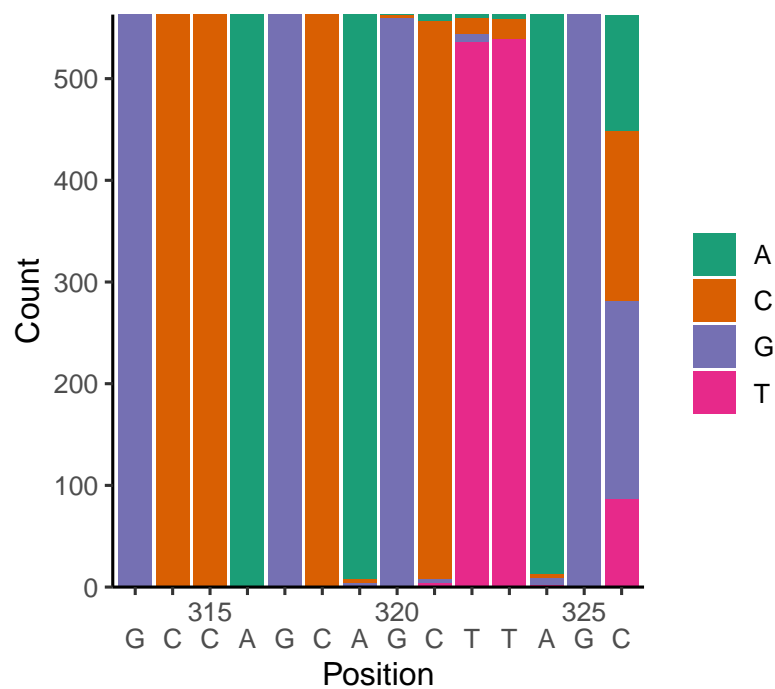
Gene TRBV7-1*ap01_G291C_T296C_C3



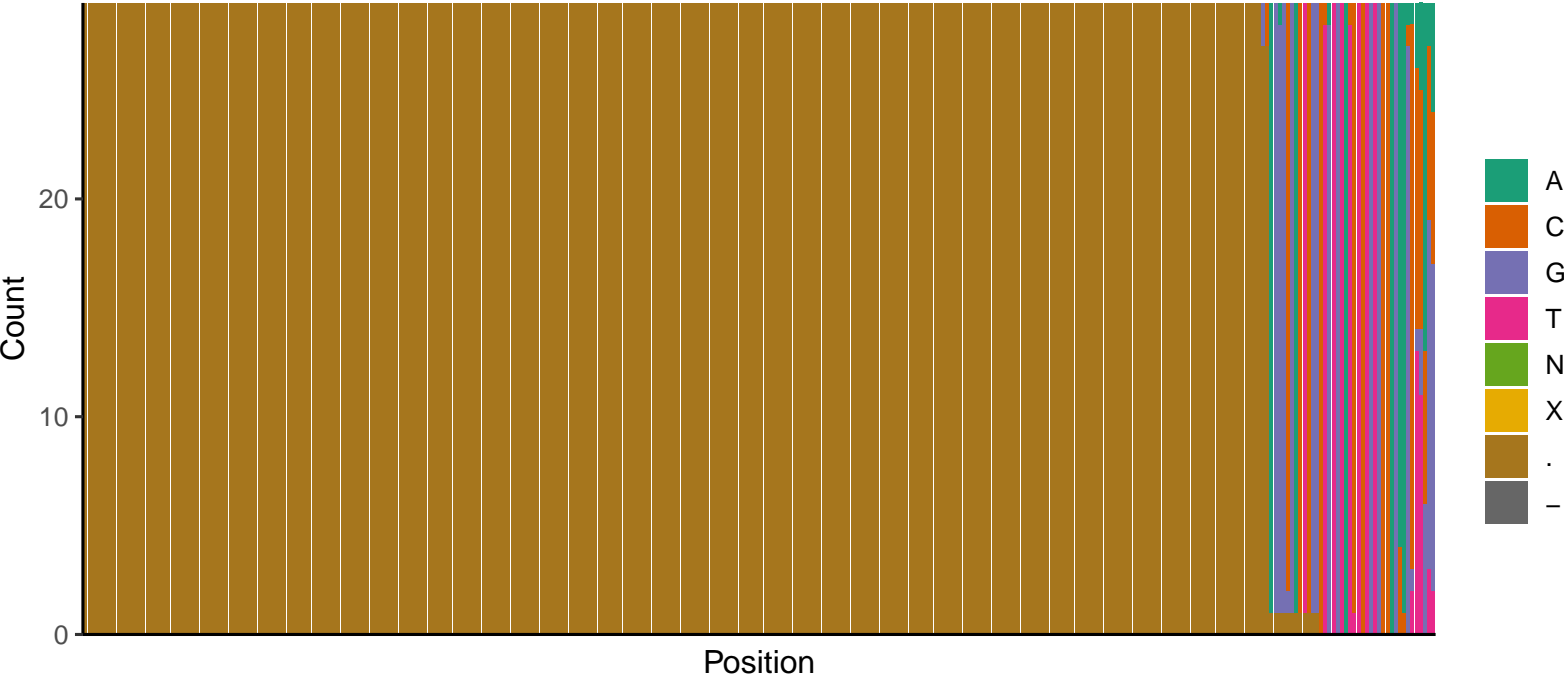
Gene TRBV7-8*ap03_C297A



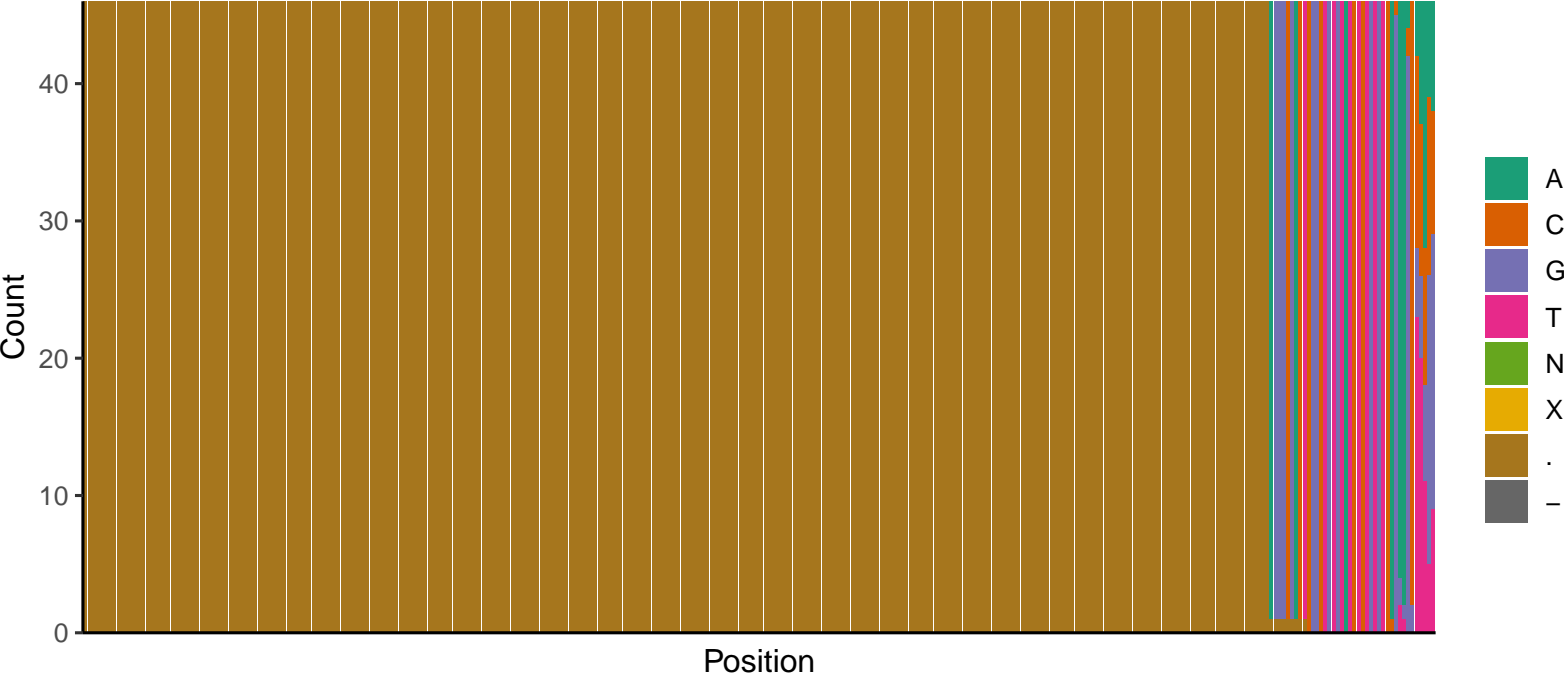
Gene TRBV7-2*ap01_G297A



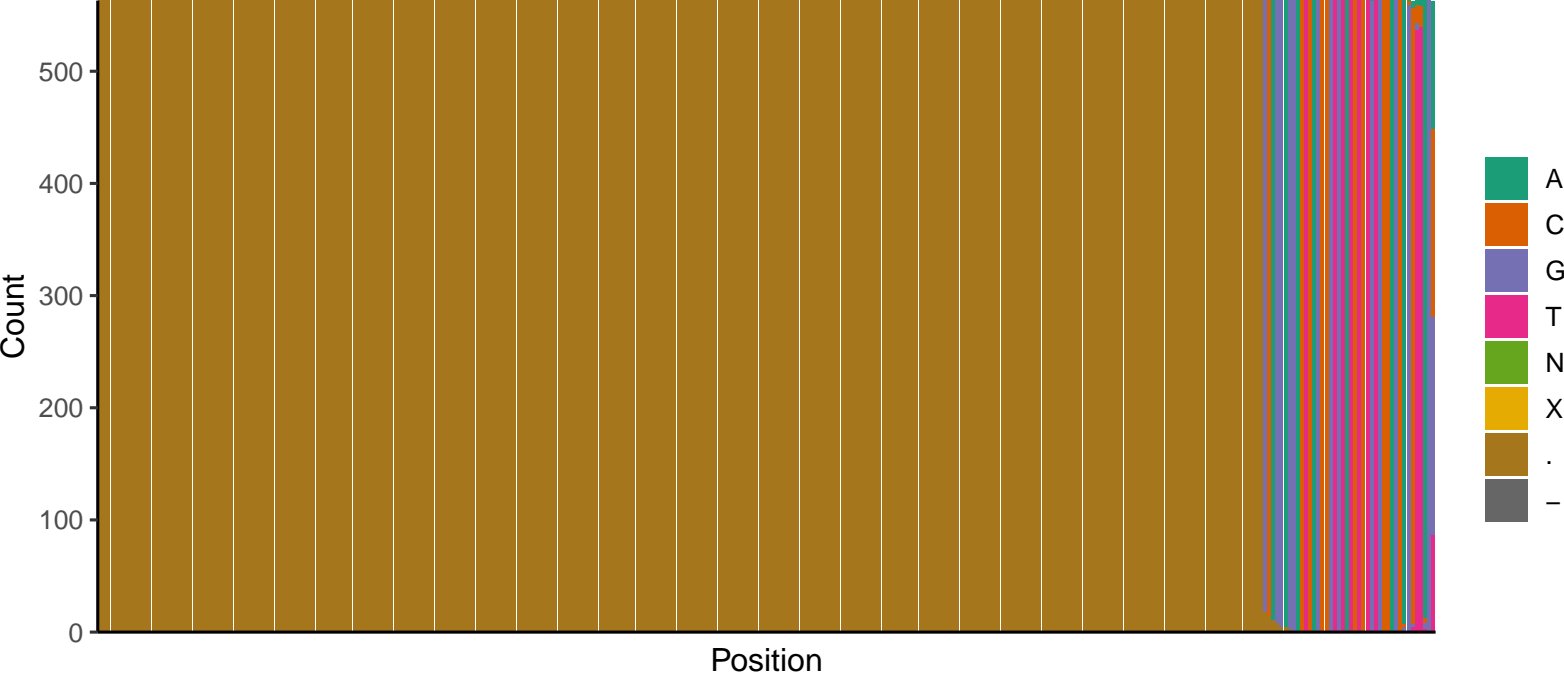
Gene TRBV7-1*ap01_G291C_T296C



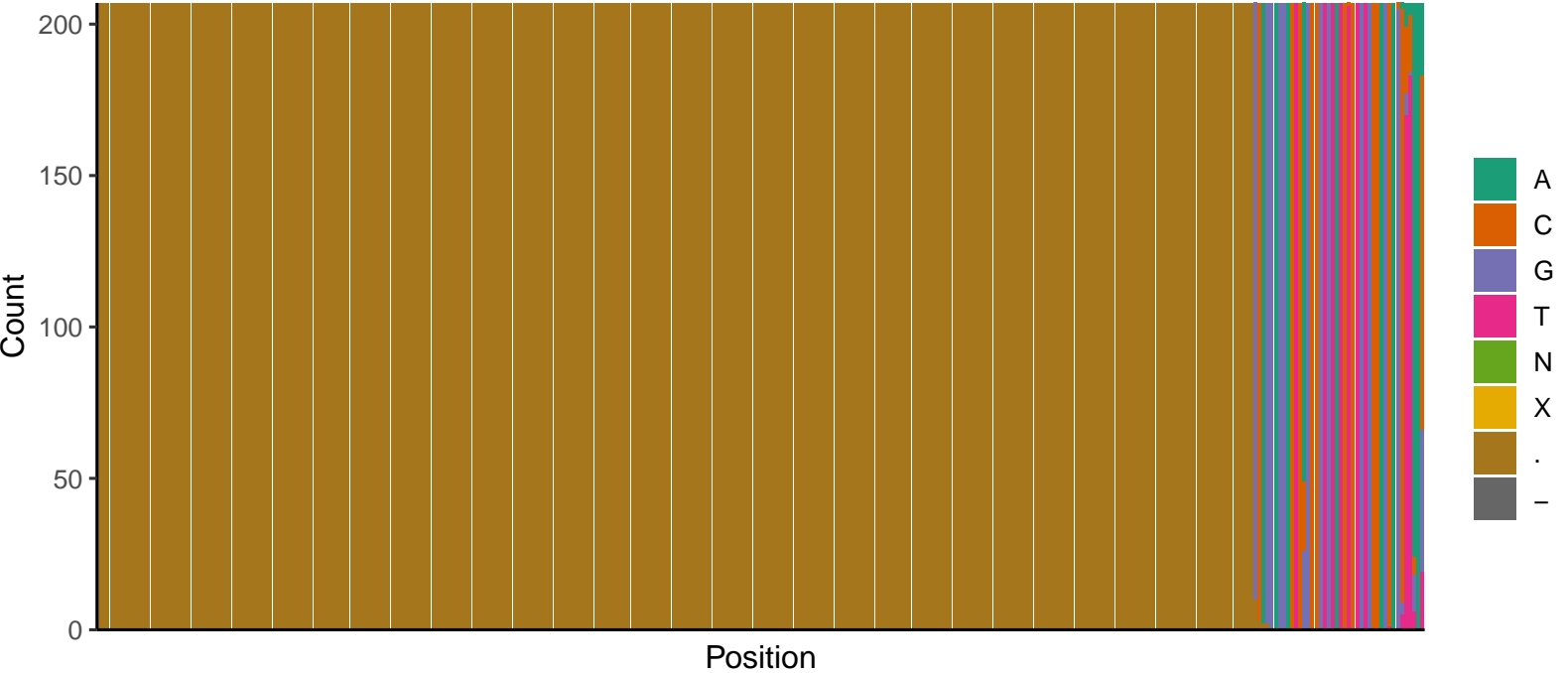
Gene TRBV7-1*ap01_G291C_T296C_C314T



Gene TRBV7-2*ap01_G297A



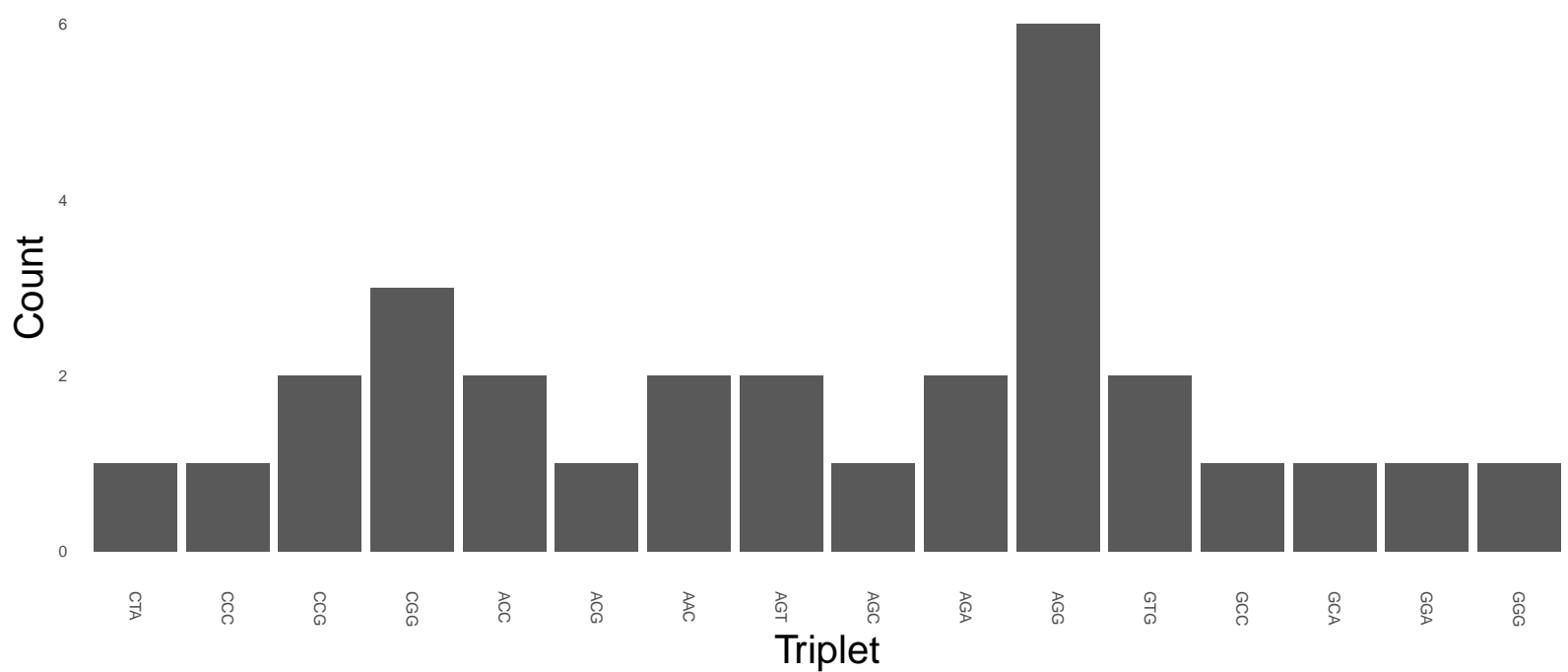
Gene TRBV7-3*ap02_G290A_C310T



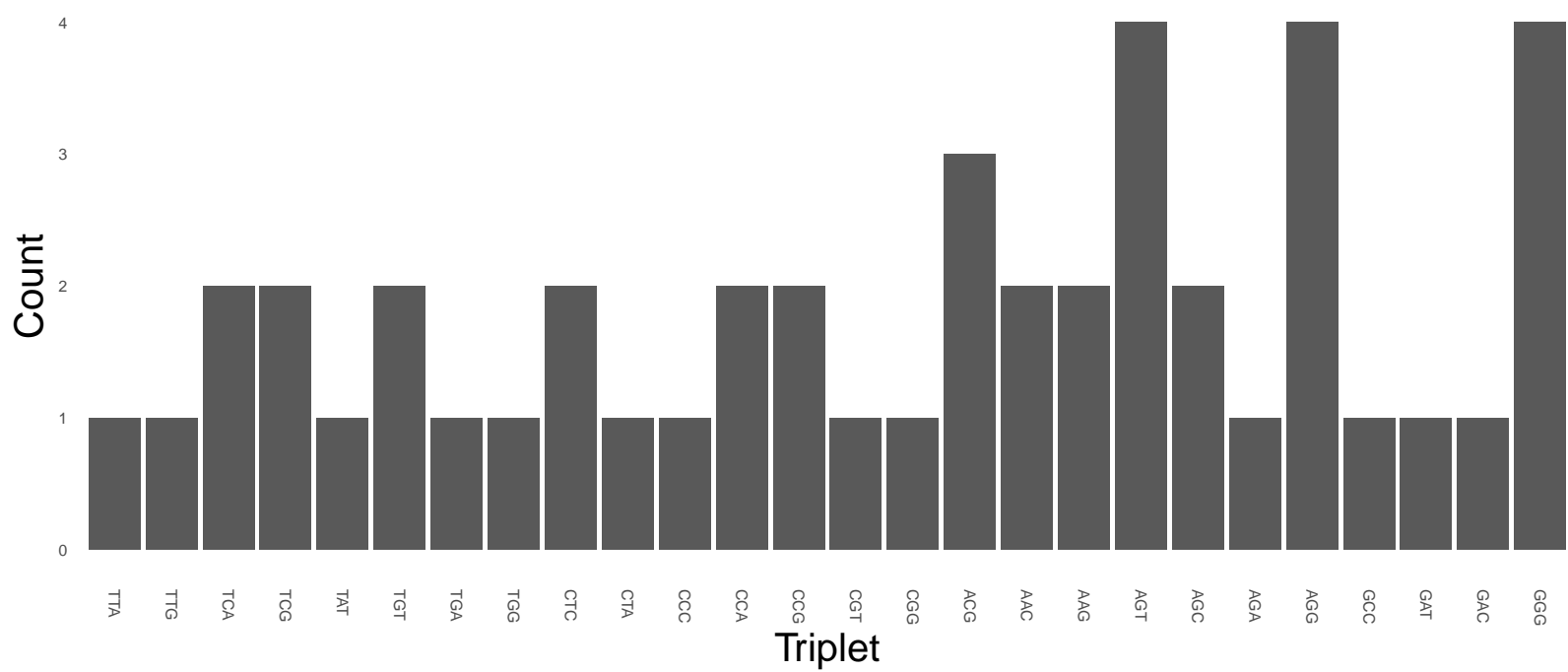
Gene TRBV7-8*ap03_C297A



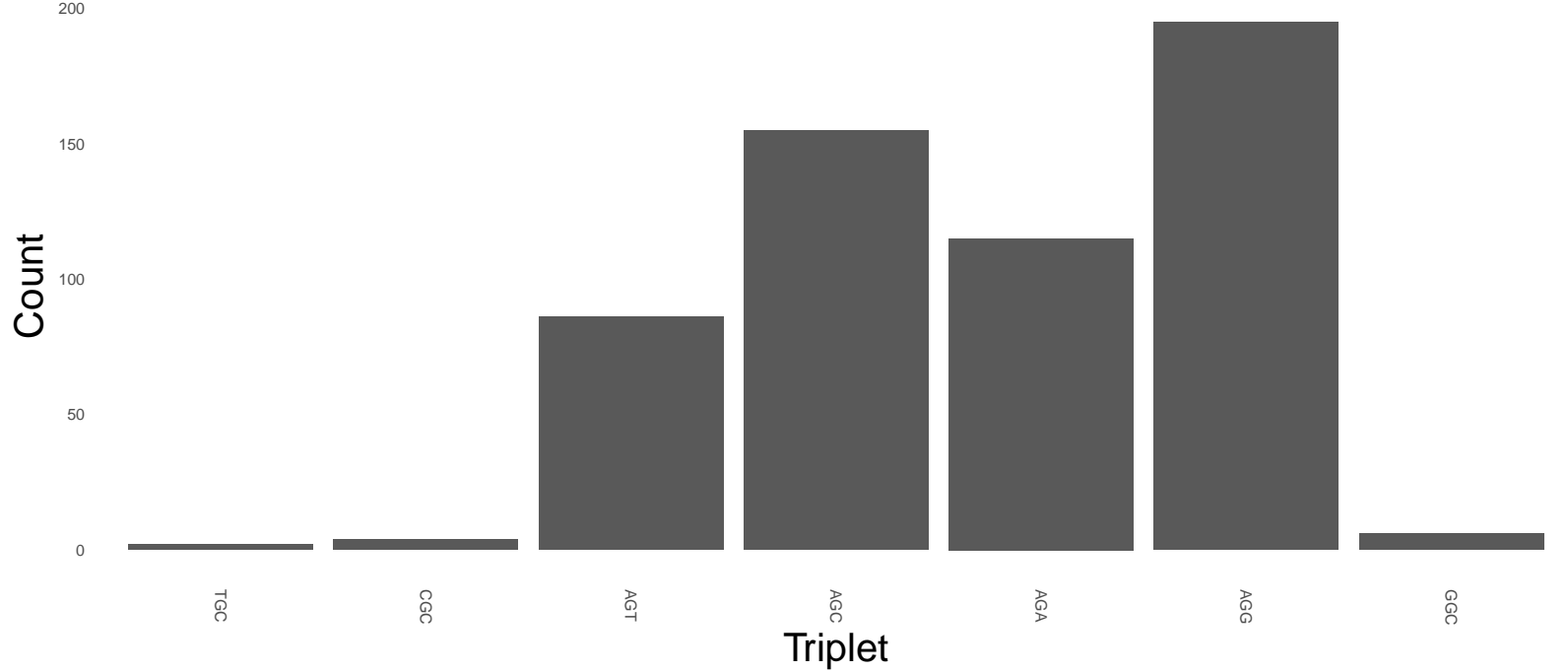
TRBV7-1*ap01_G291C_T296C- Final 3 nucleotides as a triplet



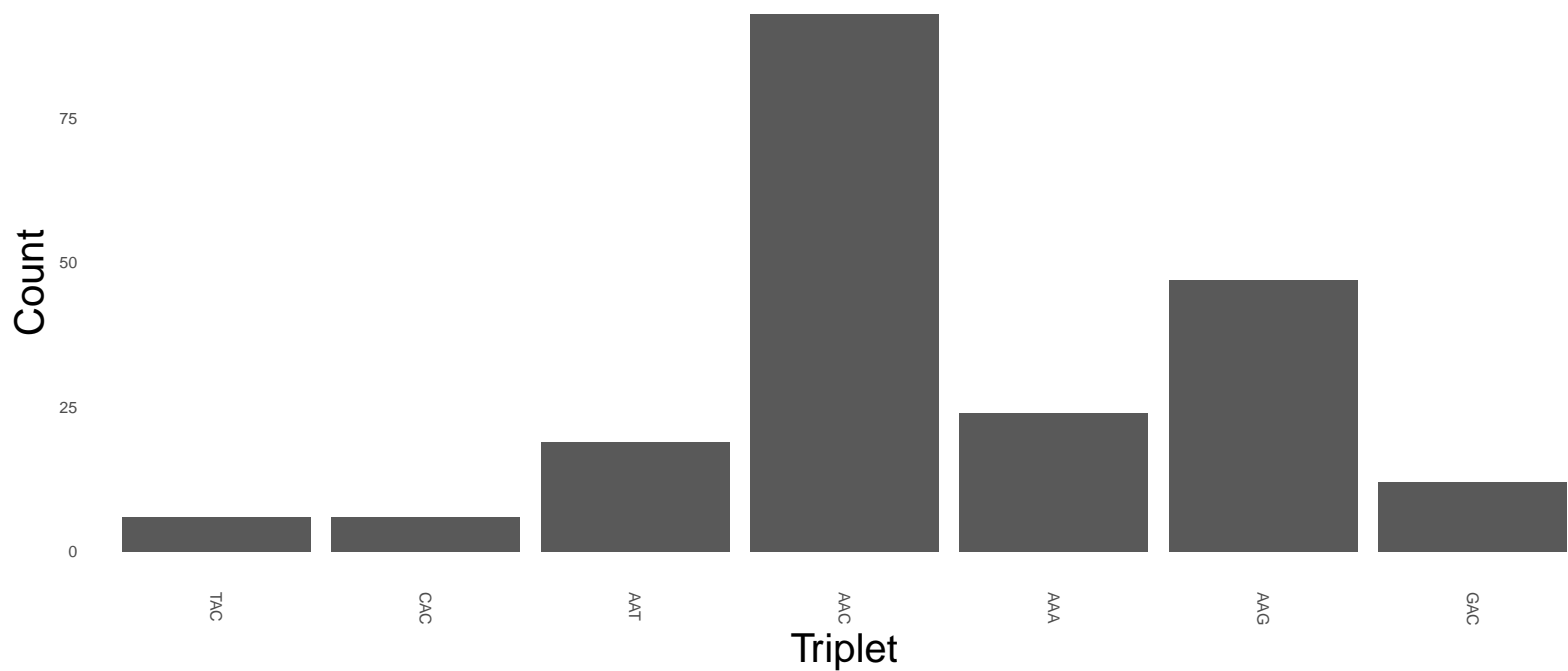
TRBV7-1*ap01_G291C_T296C_C314T- Final 3 nucleotides as a triplet



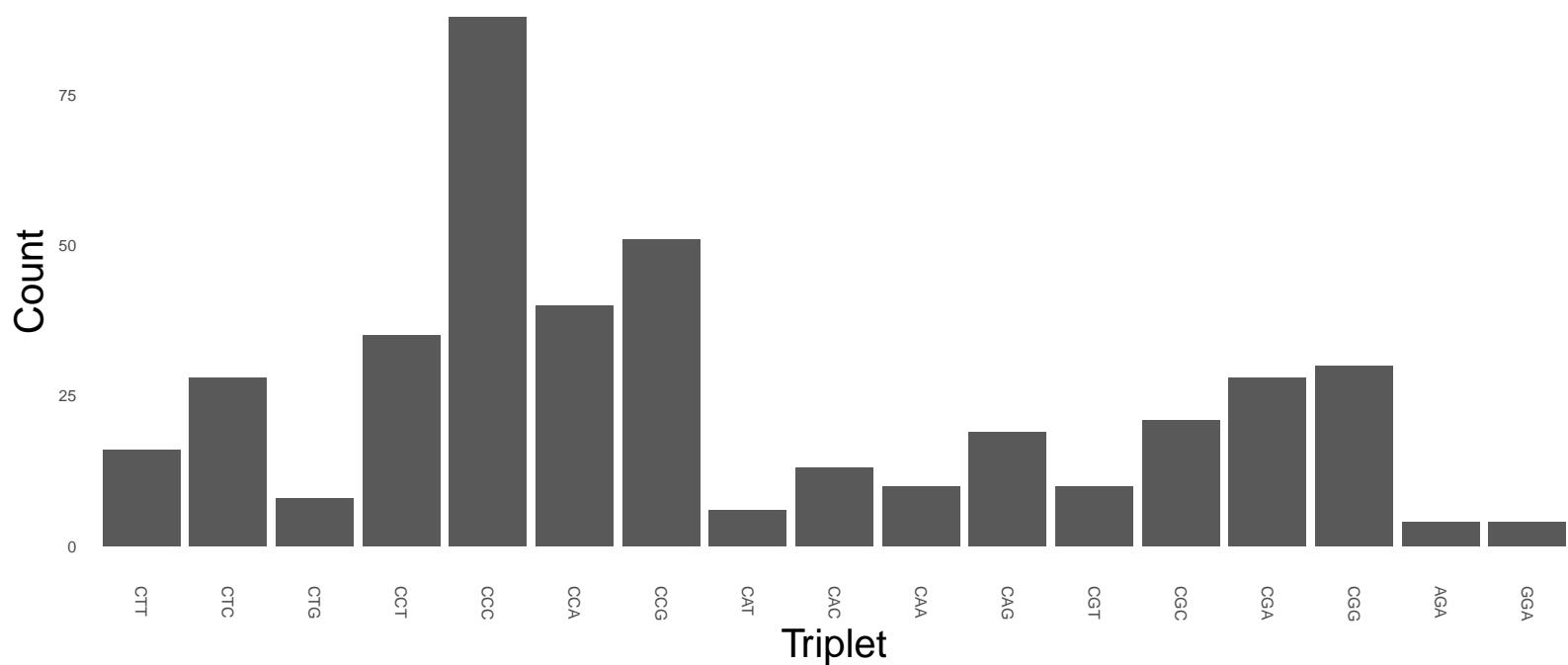
TRBV7-2*ap01_G297A- Final 3 nucleotides as a triplet



TRBV7-3*ap02_G290A_C310T- Final 3 nucleotides as a triplet

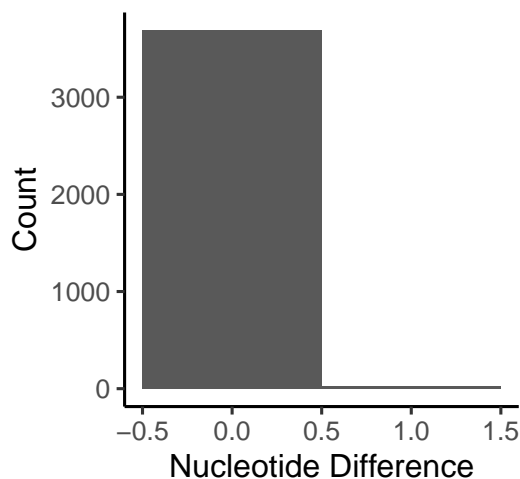


TRBV7-8*ap03_C297A- Final 3 nucleotides as a triplet



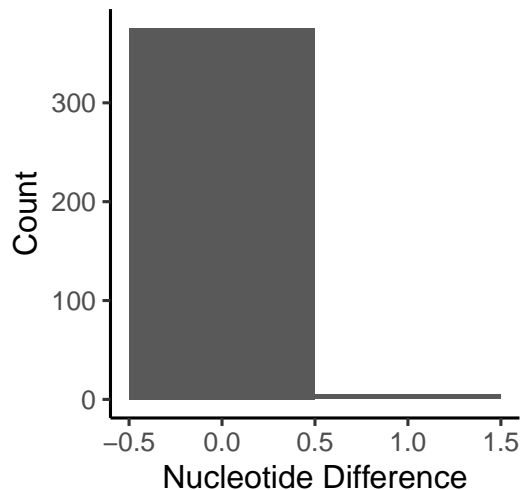
TRBV20–1*ap01

3716 sequences assigned
3688 (99.2%) exact matches, in which:
3674 unique CDR3
13 unique J



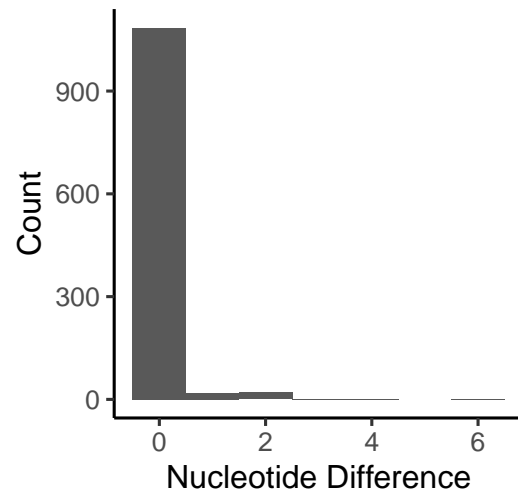
TRBV10–2*ap01

381 sequences assigned
376 (98.7%) exact matches, in which:
375 unique CDR3
13 unique J



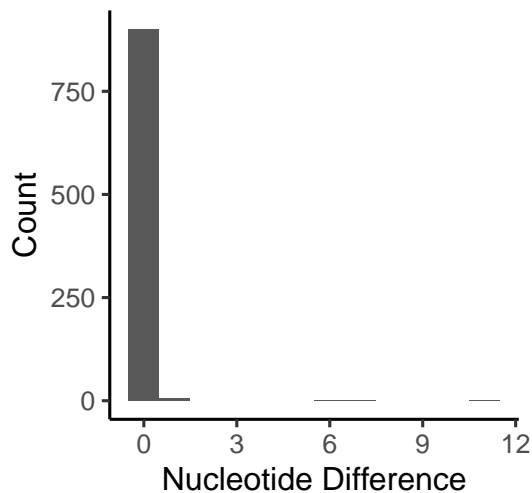
TRBV13*ap01

1127 sequences assigned
1085 (96.3%) exact matches, in which:
1079 unique CDR3
13 unique J



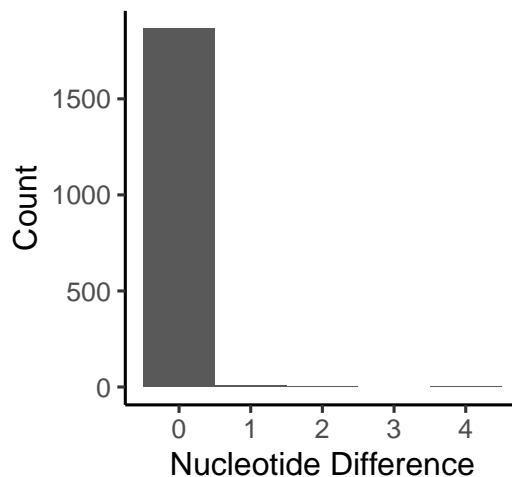
TRBV10–1*ap01

909 sequences assigned
901 (99.1%) exact matches, in which:
894 unique CDR3
13 unique J



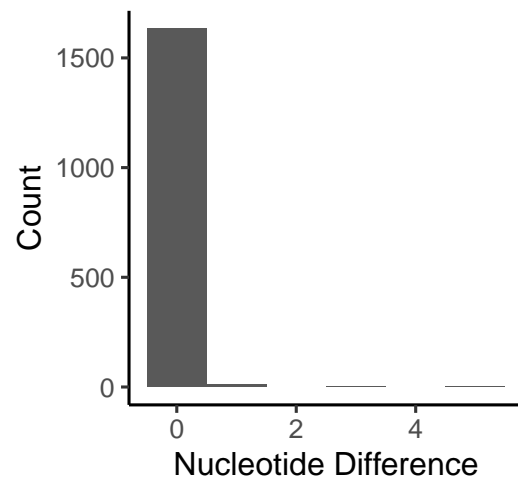
TRBV10–3*ap01

1877 sequences assigned
1865 (99.4%) exact matches, in which:
1855 unique CDR3
13 unique J



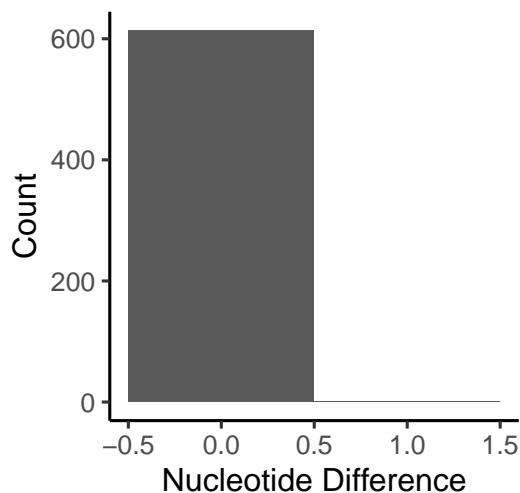
TRBV14*ap01

1646 sequences assigned
1633 (99.2%) exact matches, in which:
1624 unique CDR3
13 unique J



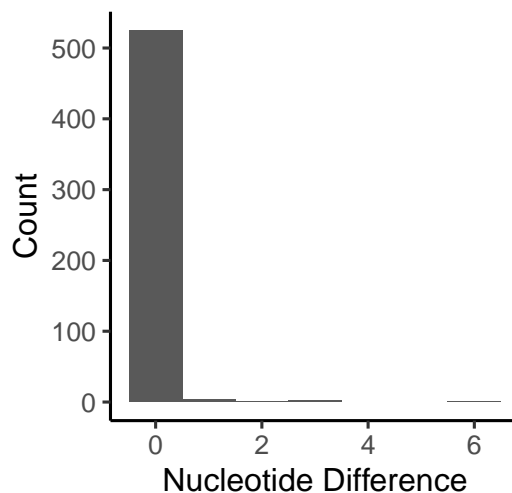
TRBV20–1*ap02

615 sequences assigned
614 (99.8%) exact matches, in which:
610 unique CDR3
13 unique J



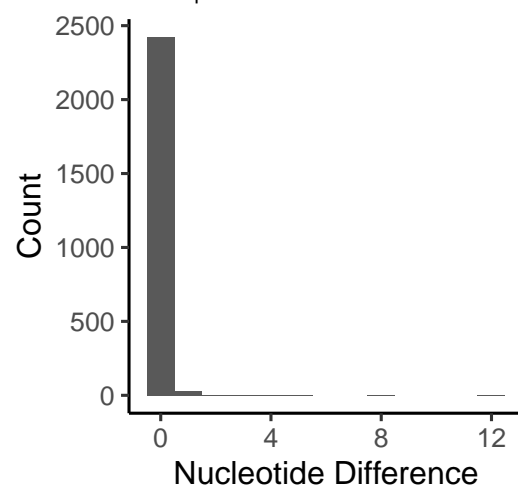
TRBV1*ap01

532 sequences assigned
525 (98.7%) exact matches, in which:
521 unique CDR3
13 unique J



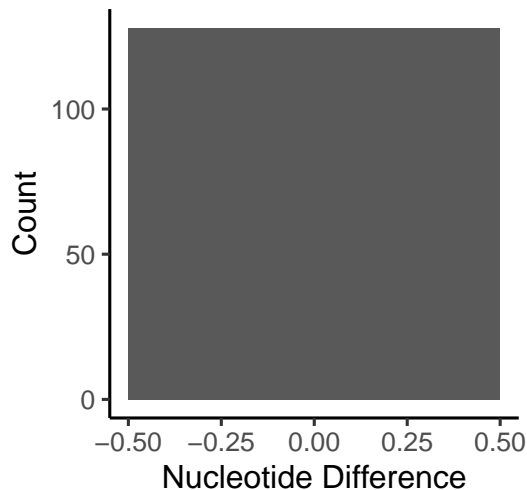
TRBV15*ap02

2457 sequences assigned
2423 (98.6%) exact matches, in which:
2411 unique CDR3
13 unique J



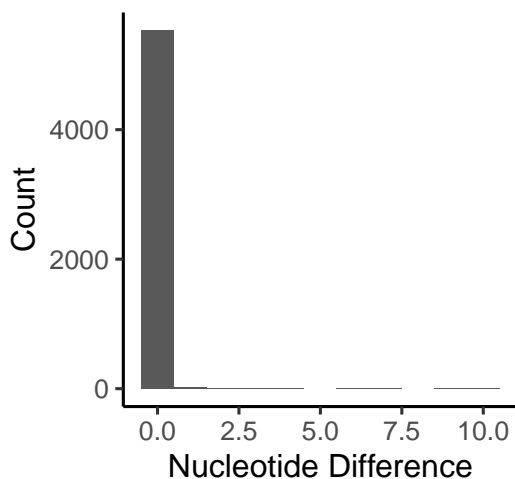
TRBV16*ap01

128 sequences assigned
128 (100%) exact matches, in which:
128 unique CDR3
13 unique J



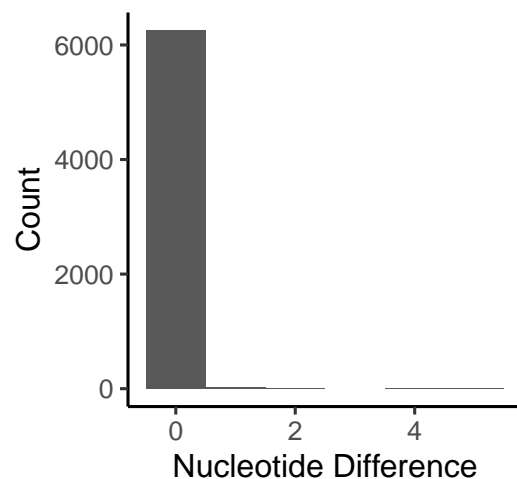
TRBV19*ap01

5575 sequences assigned
5533 (99.2%) exact matches, in which:
5522 unique CDR3
13 unique J



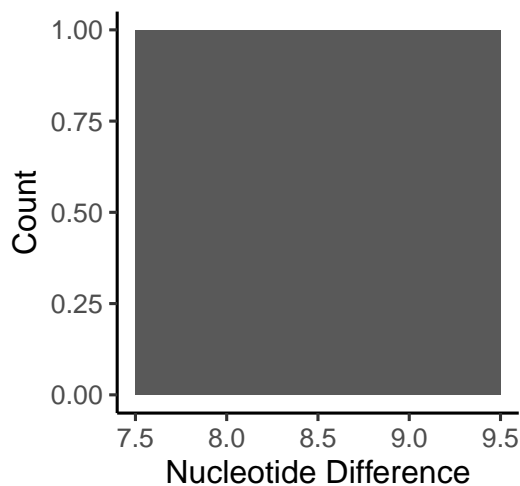
TRBV28*ap01

6284 sequences assigned
6254 (99.5%) exact matches, in which:
6216 unique CDR3
13 unique J



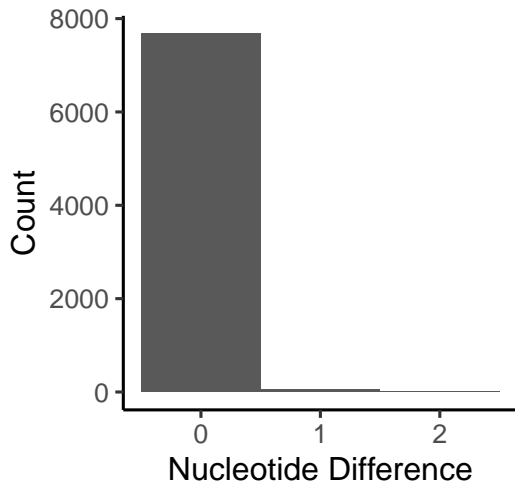
TRBV17*ap01

2 sequences assigned
No exact matches.



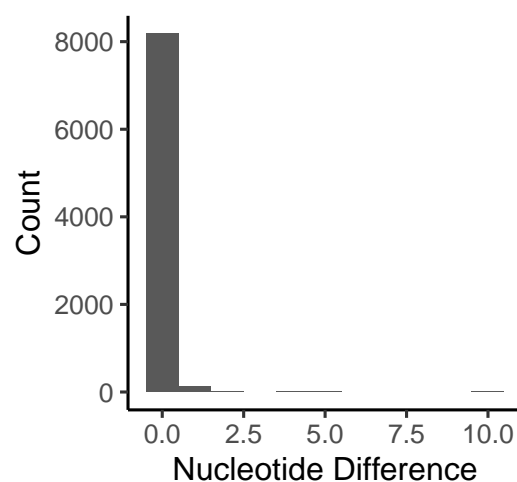
TRBV2*ap01

7725 sequences assigned
7676 (99.4%) exact matches, in which:
7636 unique CDR3
13 unique J



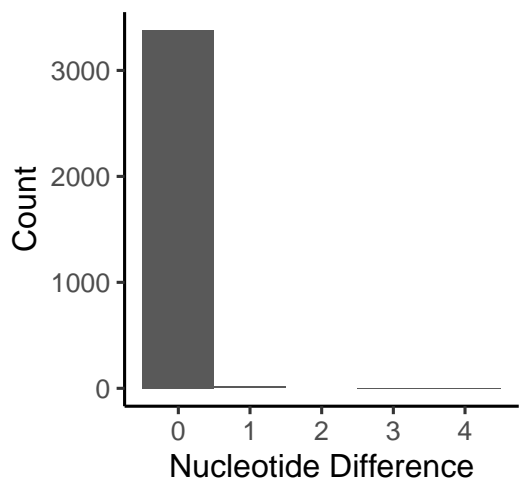
TRBV30*ap01

8308 sequences assigned
8181 (98.5%) exact matches, in which:
8095 unique CDR3
13 unique J



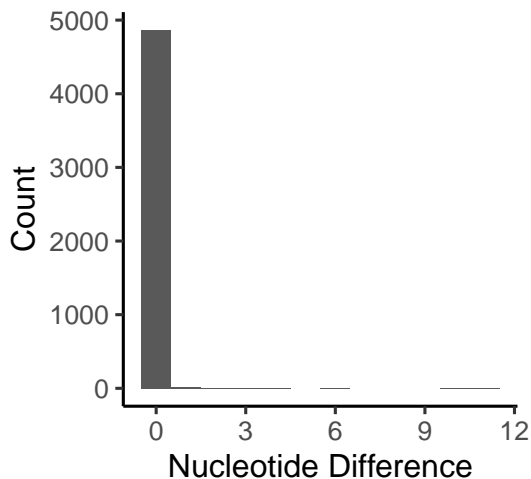
TRBV18*ap01

3400 sequences assigned
3381 (99.4%) exact matches, in which:
3367 unique CDR3
13 unique J



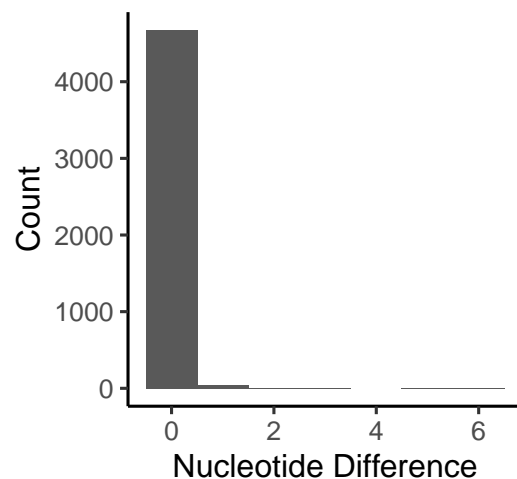
TRBV27*ap01

4898 sequences assigned
4865 (99.3%) exact matches, in which:
4835 unique CDR3
13 unique J



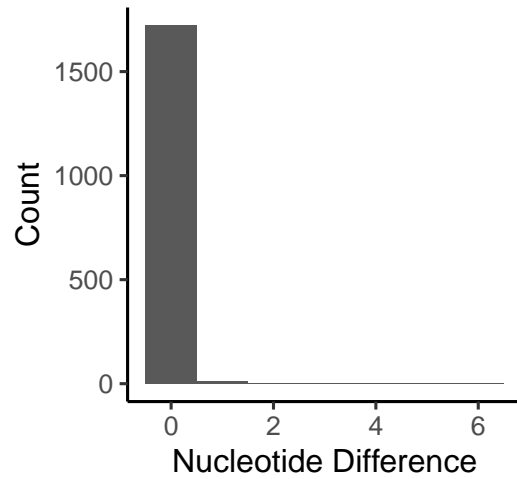
TRBV9*ap01

4725 sequences assigned
4674 (98.9%) exact matches, in which:
4655 unique CDR3
13 unique J



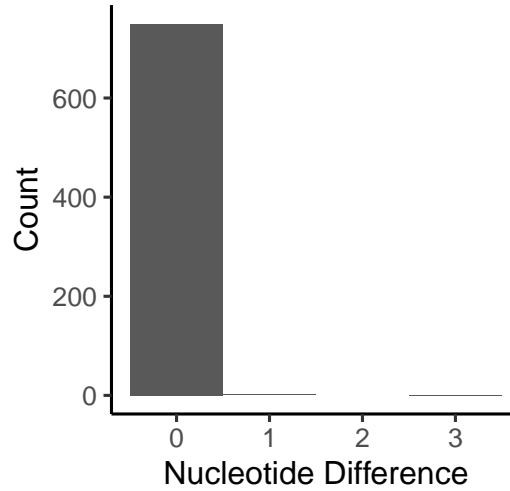
TRBV21-1*ap01

1741 sequences assigned
1722 (98.9%) exact matches, in which:
1718 unique CDR3
13 unique J



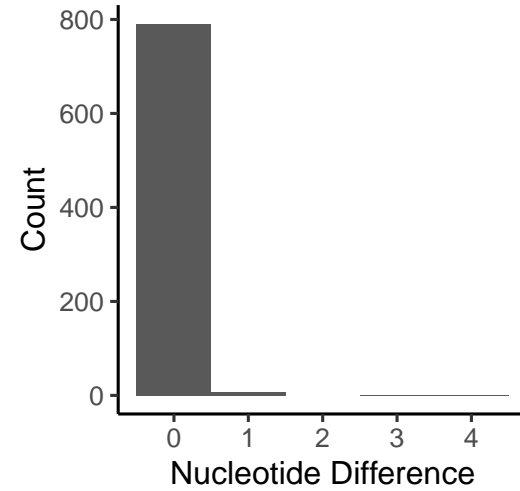
TRBV11-3*ap01

753 sequences assigned
750 (99.6%) exact matches, in which:
748 unique CDR3
13 unique J



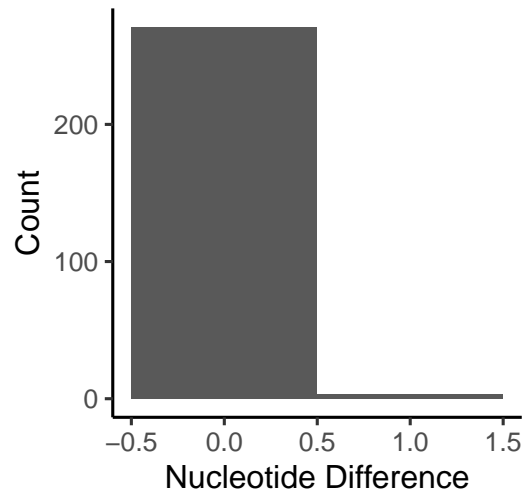
TRBV12-5*ap01

800 sequences assigned
791 (98.9%) exact matches, in which:
787 unique CDR3
13 unique J



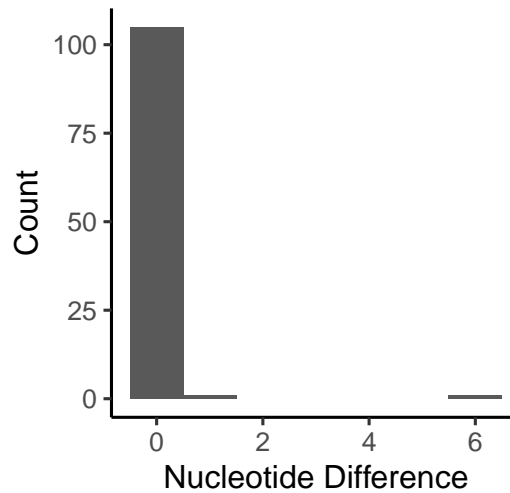
TRBV11-1*ap01

274 sequences assigned
271 (98.9%) exact matches, in which:
270 unique CDR3
13 unique J



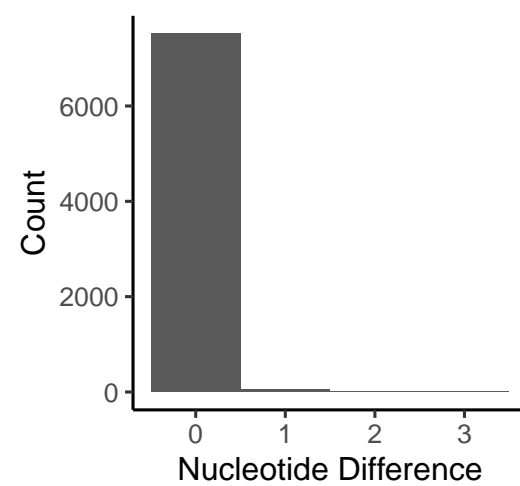
TRBV12-1*ap01

107 sequences assigned
105 (98.1%) exact matches, in which:
104 unique CDR3
11 unique J



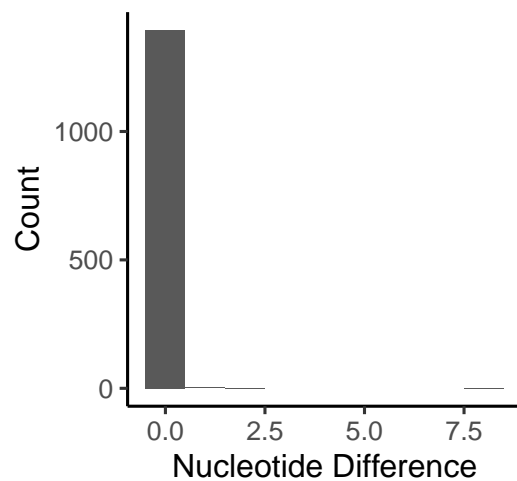
TRBV12-34*ap01

7582 sequences assigned
7516 (99.1%) exact matches, in which:
7482 unique CDR3
13 unique J



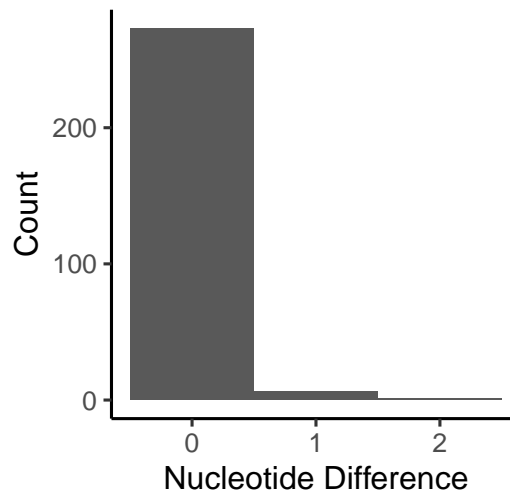
TRBV11-2*ap01

1400 sequences assigned
1395 (99.6%) exact matches, in which:
1391 unique CDR3
13 unique J



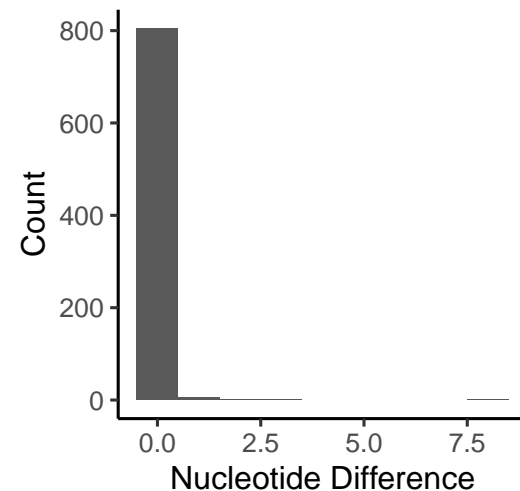
TRBV12-2*ap01

280 sequences assigned
273 (97.5%) exact matches, in which:
271 unique CDR3
13 unique J



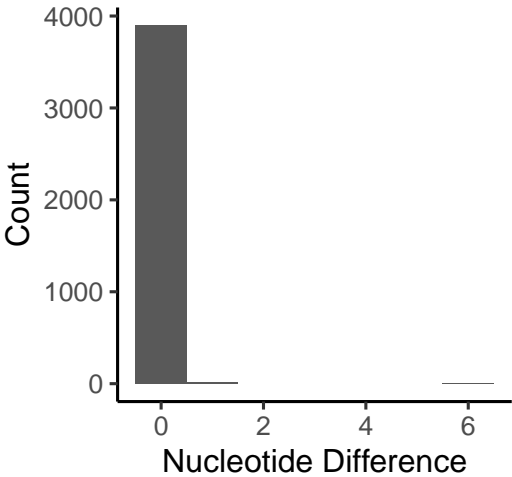
TRBV23-1*ap01

813 sequences assigned
805 (99%) exact matches, in which:
801 unique CDR3
13 unique J



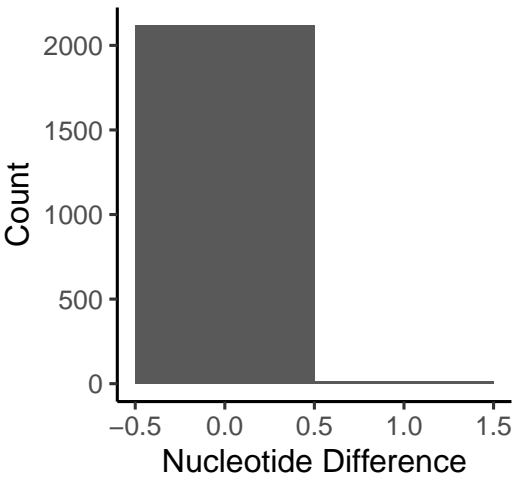
TRBV3-12*ap01

3912 sequences assigned
3898 (99.6%) exact matches, in which:
3884 unique CDR3
14 unique J



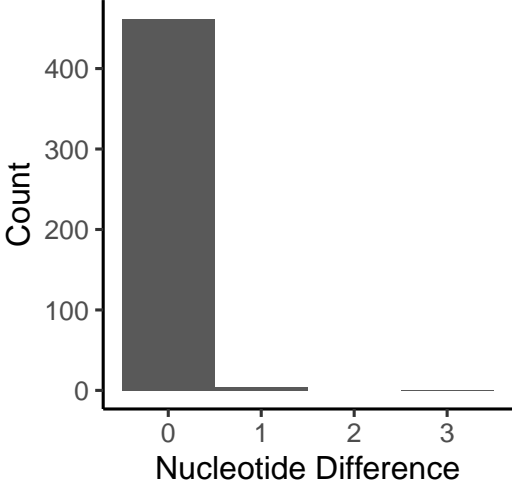
TRBV4-2*ap01

2135 sequences assigned
2118 (99.2%) exact matches, in which:
2108 unique CDR3
13 unique J



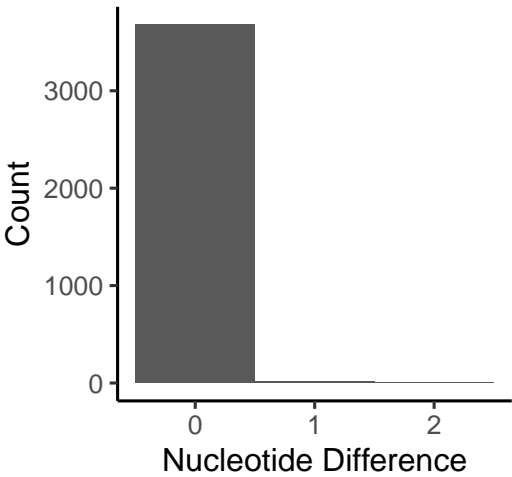
TRBV5-3*ap01

467 sequences assigned
462 (98.9%) exact matches, in which:
460 unique CDR3
13 unique J



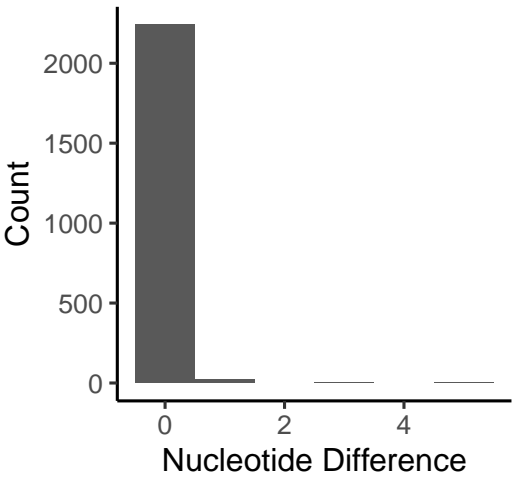
TRBV4-1*ap01

3694 sequences assigned
3678 (99.6%) exact matches, in which:
3655 unique CDR3
13 unique J



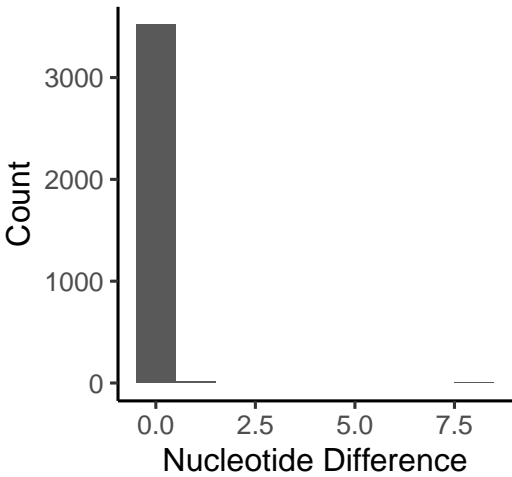
TRBV25-1*ap01

2262 sequences assigned
2241 (99.1%) exact matches, in which:
2224 unique CDR3
13 unique J



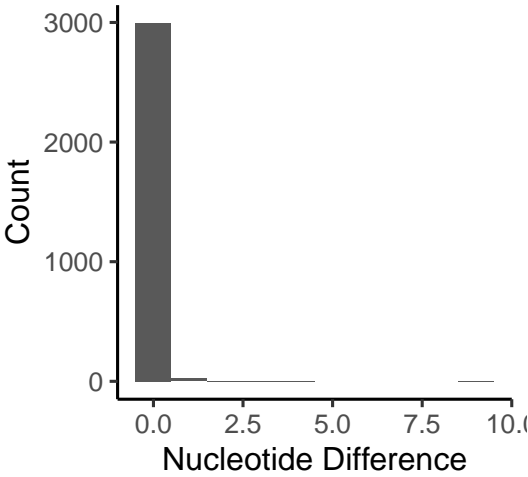
TRBV5-4*ap01

3536 sequences assigned
3519 (99.5%) exact matches, in which:
3495 unique CDR3
13 unique J



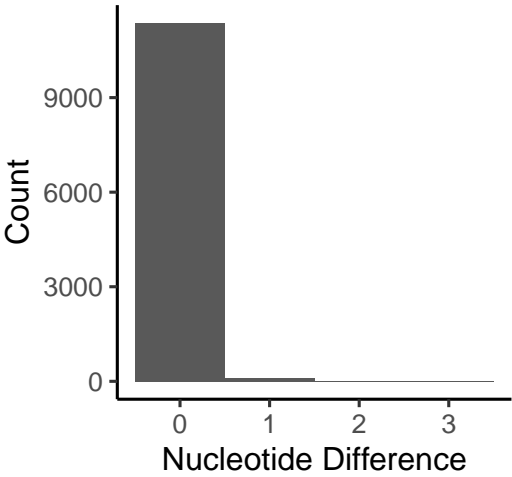
TRBV24-1*ap01

3028 sequences assigned
2995 (98.9%) exact matches, in which:
2971 unique CDR3
13 unique J



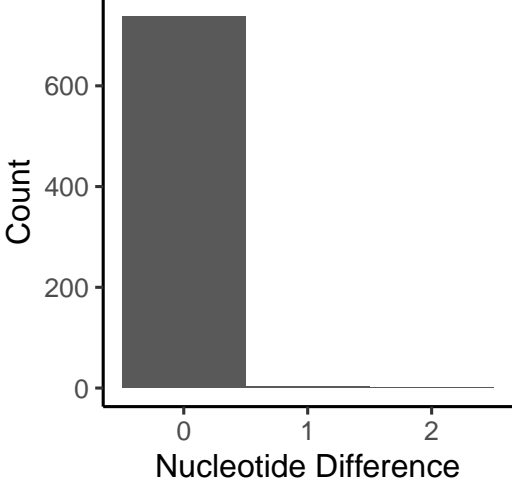
TRBV5-1*ap01

11469 sequences assigned
11365 (99.1%) exact matches, in which:
11285 unique CDR3
13 unique J



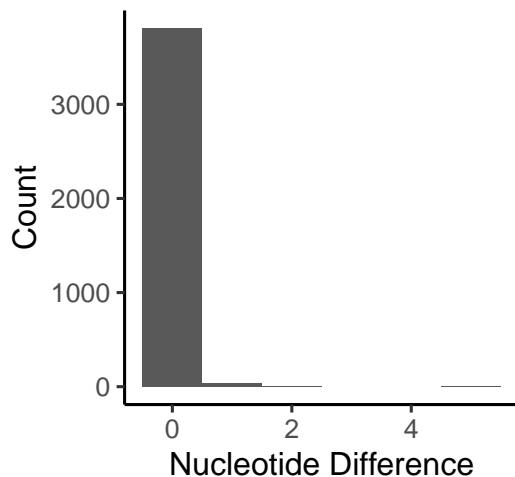
TRBV5-5*ap01

742 sequences assigned
738 (99.5%) exact matches, in which:
737 unique CDR3
13 unique J



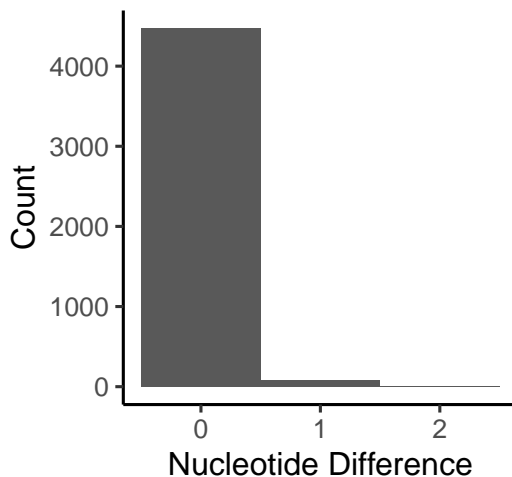
TRBV5-6*ap01

3850 sequences assigned
3807 (98.9%) exact matches, in which:
3776 unique CDR3
13 unique J



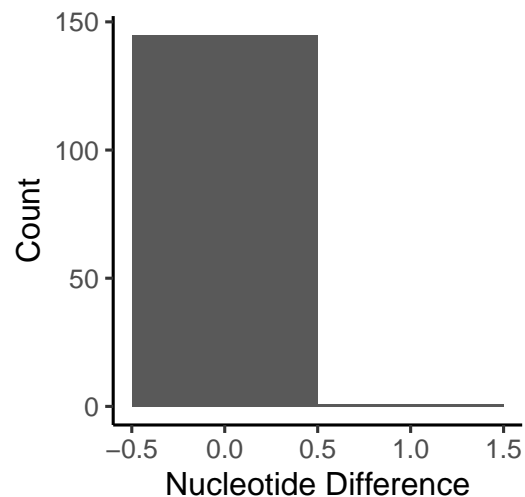
TRBV6-1*ap01

4553 sequences assigned
4471 (98.2%) exact matches, in which:
4435 unique CDR3
13 unique J



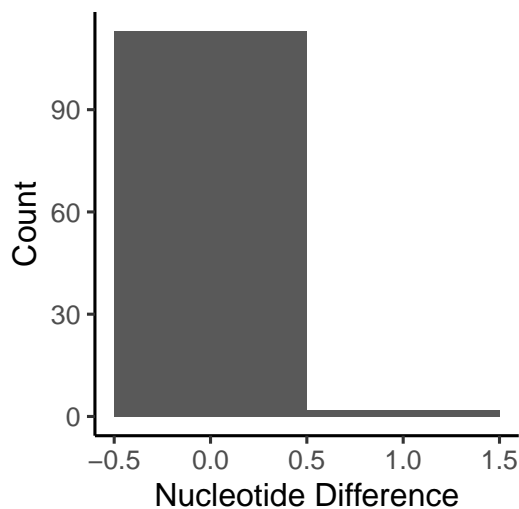
TRBV6-8*ap01

146 sequences assigned
145 (99.3%) exact matches, in which:
144 unique CDR3
13 unique J



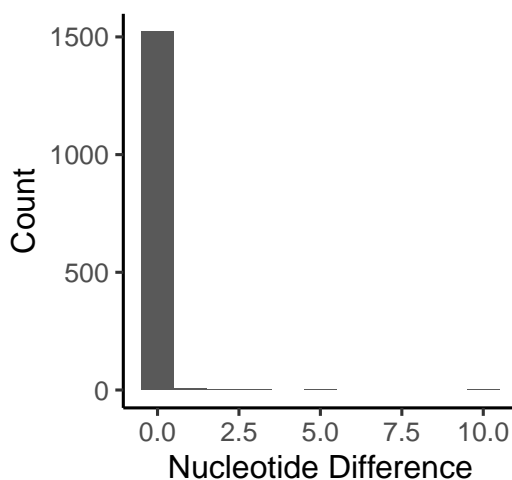
TRBV5-7*ap01

115 sequences assigned
113 (98.3%) exact matches, in which:
112 unique CDR3
13 unique J



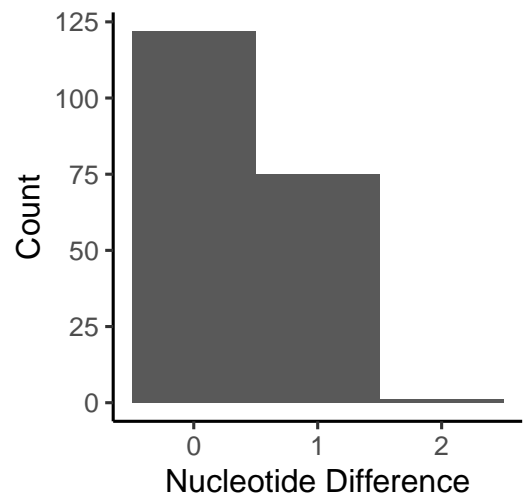
TRBV6-4*ap01

1535 sequences assigned
1522 (99.2%) exact matches, in which:
1514 unique CDR3
13 unique J



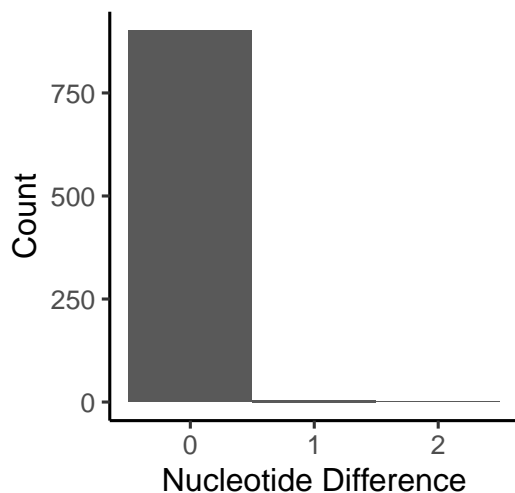
TRBV6-9*ap01

198 sequences assigned
122 (61.6%) exact matches, in which:
122 unique CDR3
13 unique J



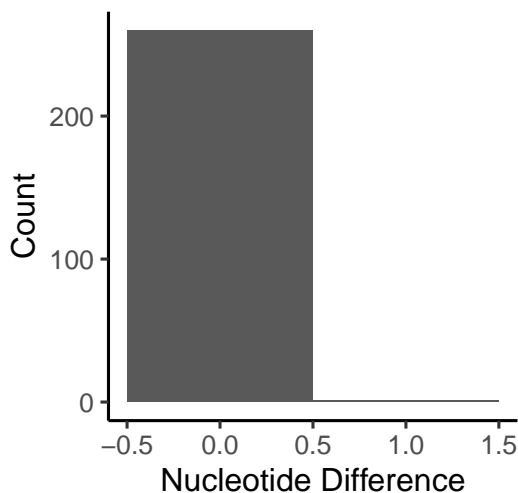
TRBV5-8*ap01

908 sequences assigned
902 (99.3%) exact matches, in which:
898 unique CDR3
13 unique J



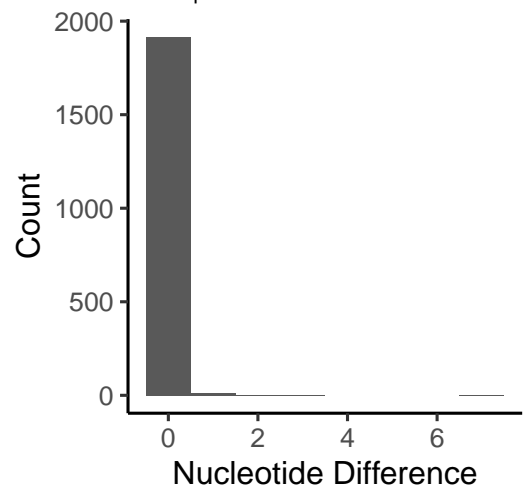
TRBV6-7*ap01

261 sequences assigned
260 (99.6%) exact matches, in which:
258 unique CDR3
13 unique J



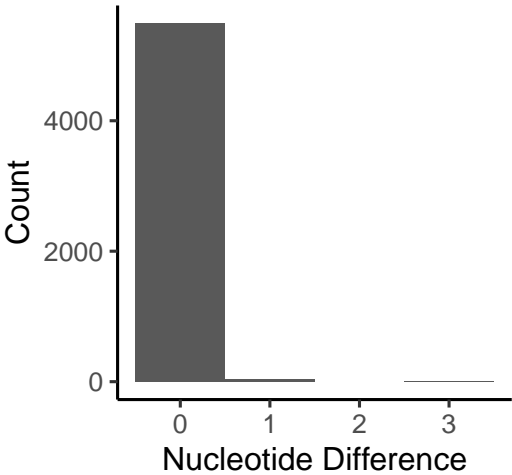
TRBV6-23*ap01

1930 sequences assigned
1915 (99.2%) exact matches, in which:
1897 unique CDR3
13 unique J



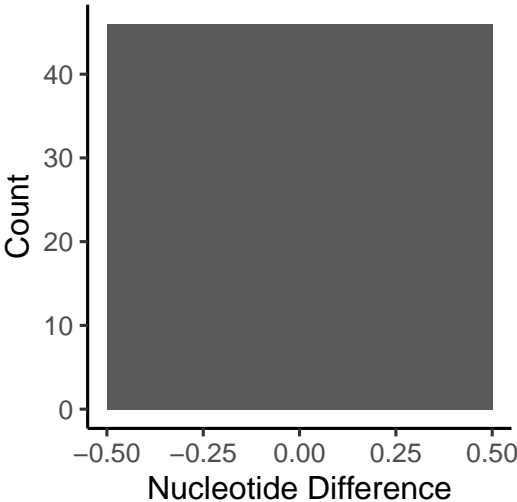
TRBV6-56*ap01

5536 sequences assigned
5492 (99.2%) exact matches, in which:
5459 unique CDR3
13 unique J



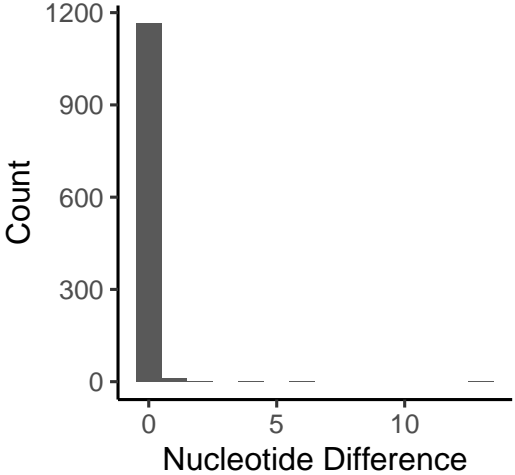
TRBV7-1*ap01_G291C_T

46 sequences assigned
46 (100%) exact matches, in which:
46 unique CDR3
10 unique J



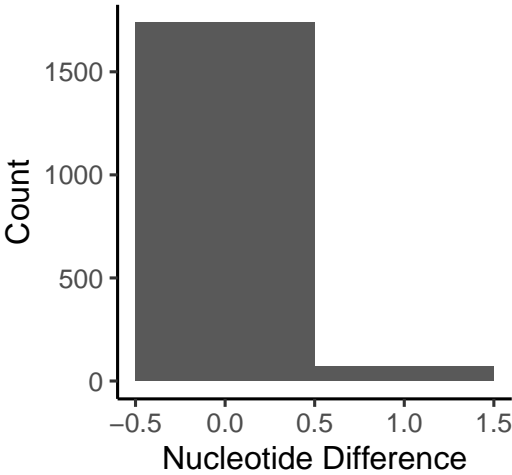
TRBV7-3*ap01

1181 sequences assigned
1165 (98.6%) exact matches, in which:
1161 unique CDR3
13 unique J



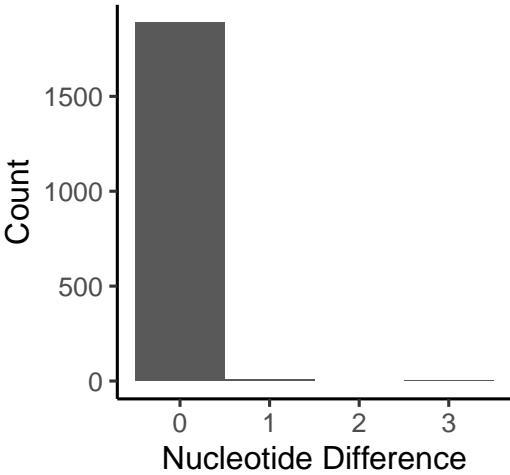
TRBV6-56*ap02

1807 sequences assigned
1738 (96.2%) exact matches, in which:
1732 unique CDR3
13 unique J



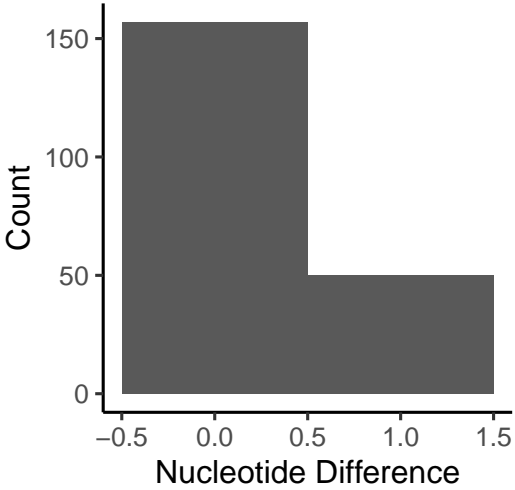
TRBV7-2*ap01

1895 sequences assigned
1888 (99.6%) exact matches, in which:
1877 unique CDR3
13 unique J



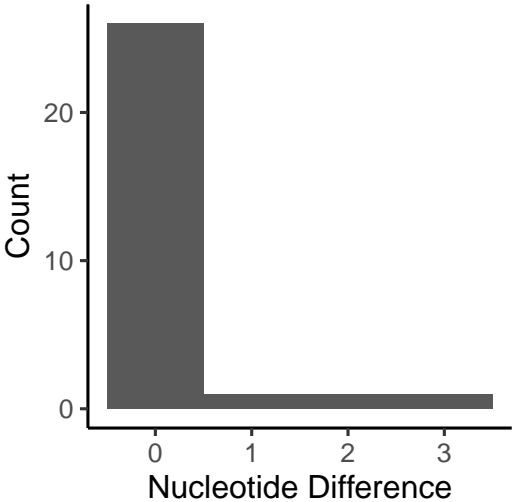
TRBV7-3*ap02_G290A_C

207 sequences assigned
157 (75.8%) exact matches, in which:
157 unique CDR3
12 unique J



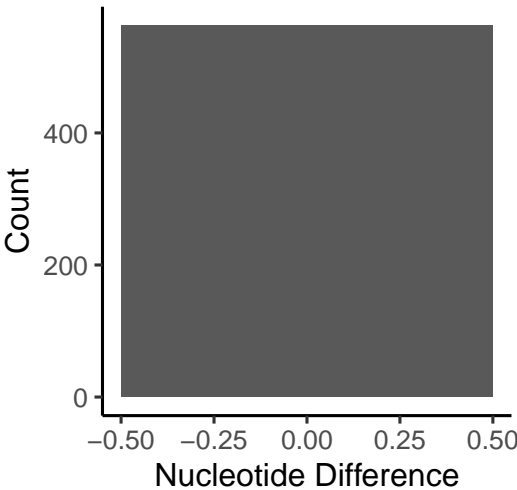
TRBV7-1*ap01_G291C_T

29 sequences assigned
26 (89.7%) exact matches, in which:
25 unique CDR3
9 unique J



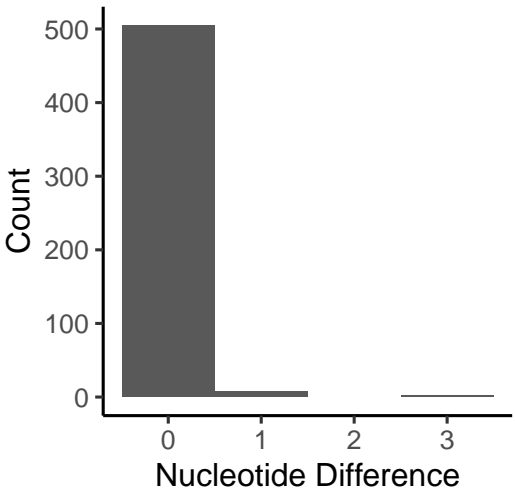
TRBV7-2*ap01_G297A

563 sequences assigned
563 (100%) exact matches, in which:
562 unique CDR3
13 unique J



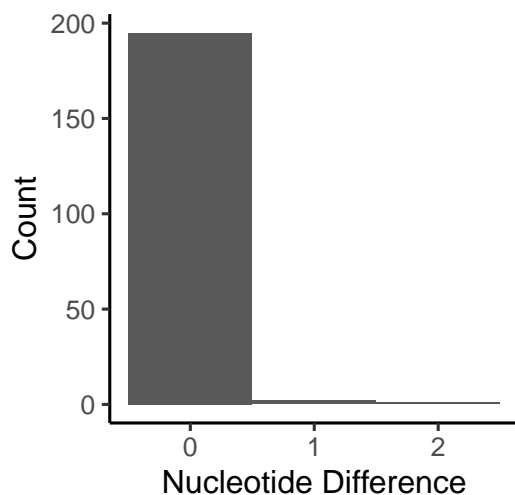
TRBV7-3*ap03

514 sequences assigned
505 (98.2%) exact matches, in which:
504 unique CDR3
14 unique J



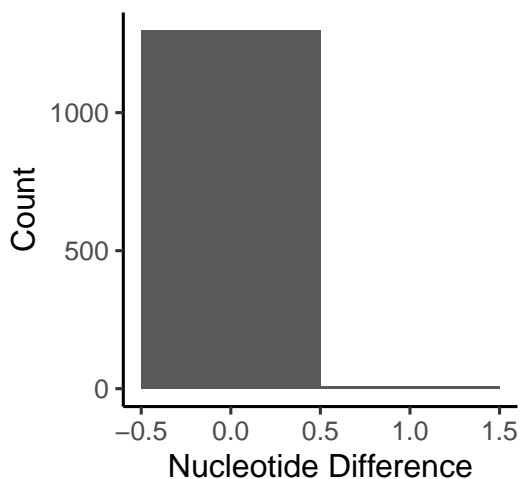
TRBV7-4*ap01

198 sequences assigned
195 (98.5%) exact matches, in which:
194 unique CDR3
13 unique J



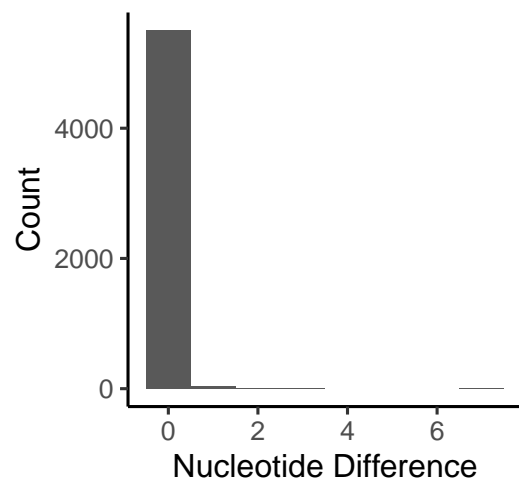
TRBV7-8*ap01

1307 sequences assigned
1298 (99.3%) exact matches, in which:
1294 unique CDR3
13 unique J



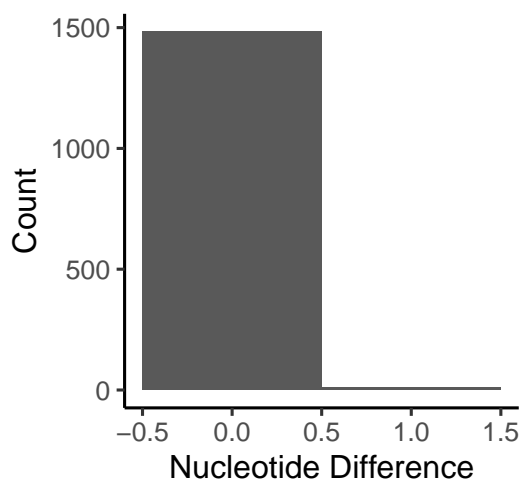
TRBV7-9*ap01

5543 sequences assigned
5502 (99.3%) exact matches, in which:
5486 unique CDR3
13 unique J



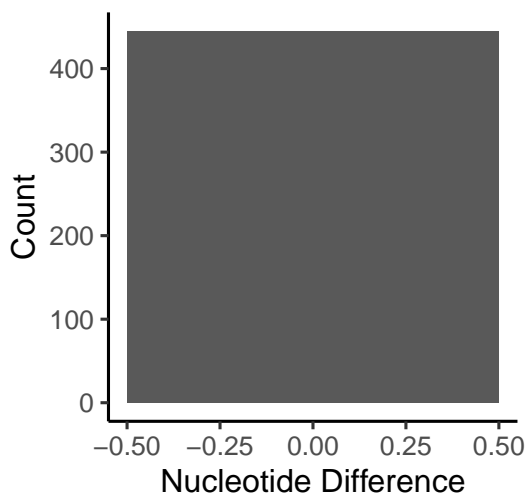
TRBV7-6*ap01

1492 sequences assigned
1483 (99.4%) exact matches, in which:
1477 unique CDR3
13 unique J



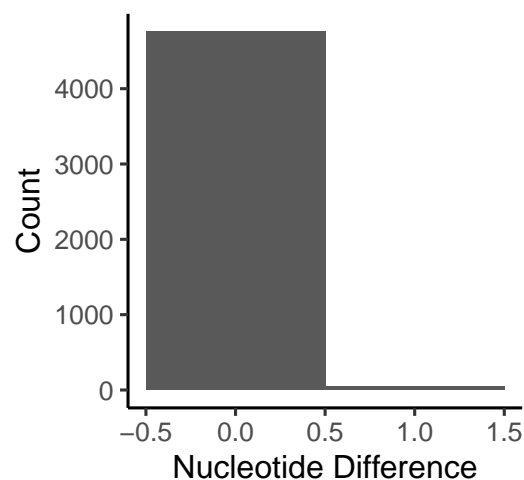
TRBV7-8*ap03

445 sequences assigned
445 (100%) exact matches, in which:
445 unique CDR3
13 unique J



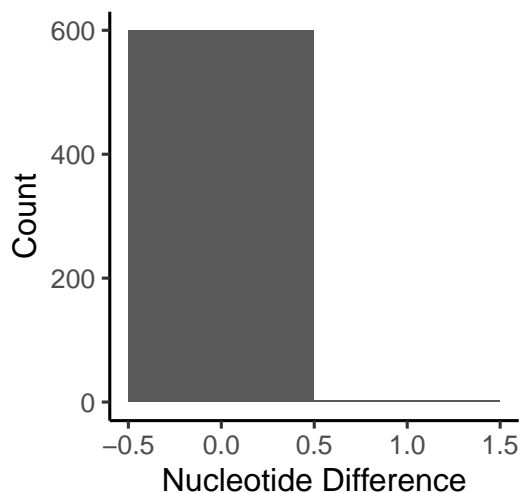
TRBV29-1*ap01

4801 sequences assigned
4756 (99.1%) exact matches, in which:
4695 unique CDR3
13 unique J



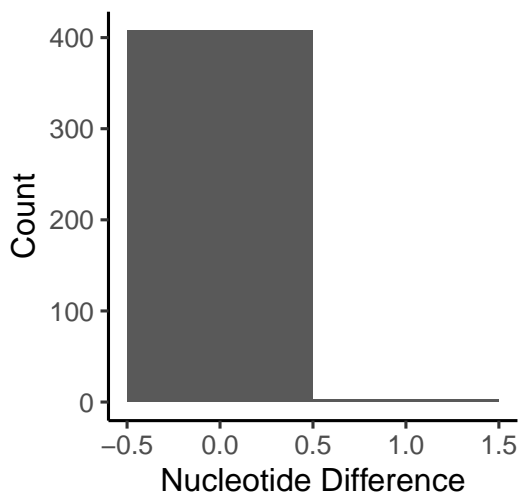
TRBV7-7*ap01

602 sequences assigned
600 (99.7%) exact matches, in which:
598 unique CDR3
13 unique J



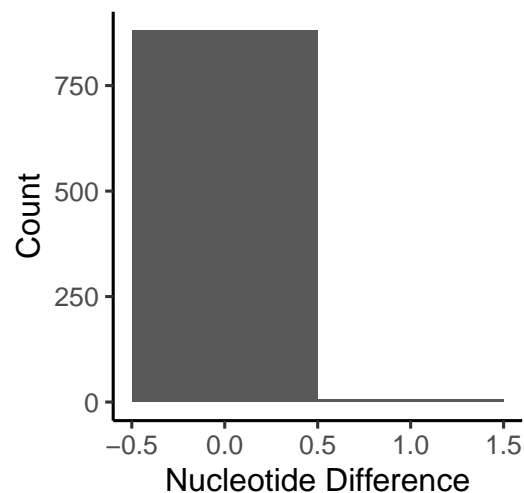
TRBV7-8*ap03_C297A

411 sequences assigned
408 (99.3%) exact matches, in which:
405 unique CDR3
13 unique J

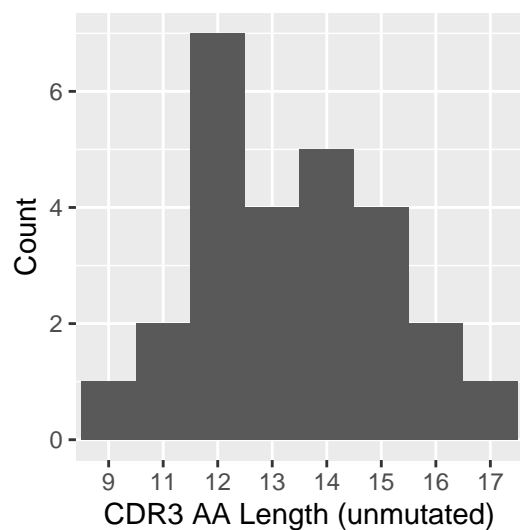


TRBV29-1*ap02

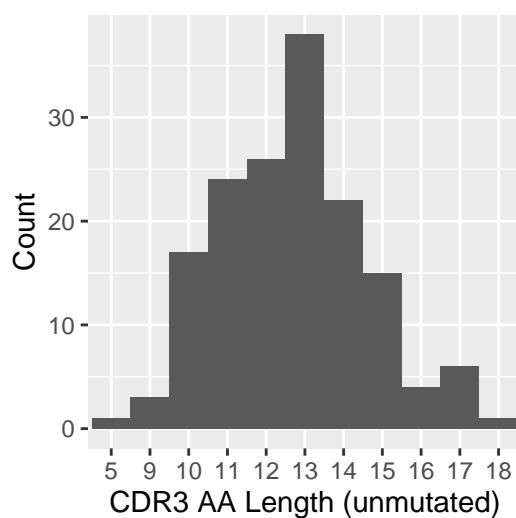
887 sequences assigned
881 (99.3%) exact matches, in which:
874 unique CDR3
13 unique J



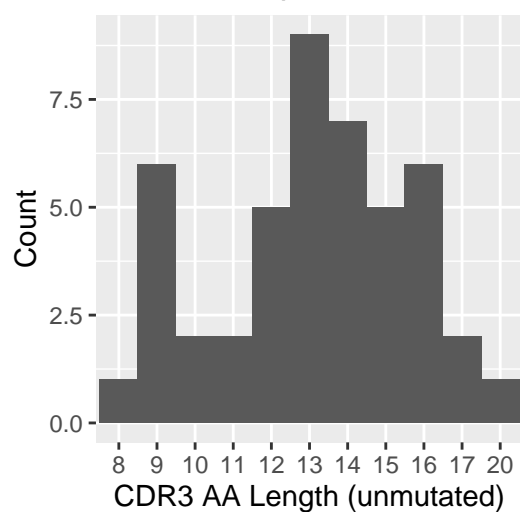
TRBV7-1*ap01_G291C_T296



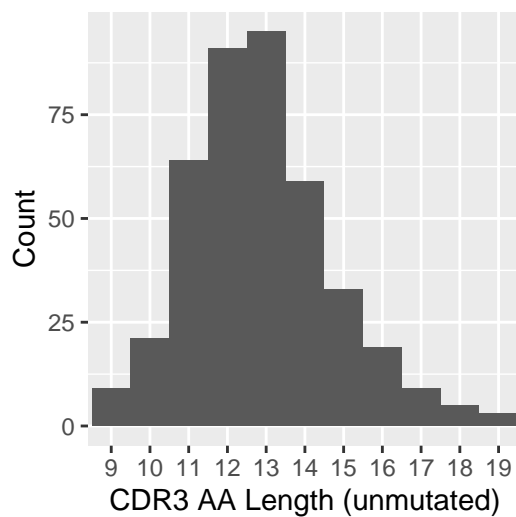
TRBV7-3*ap02_G290A_C310T



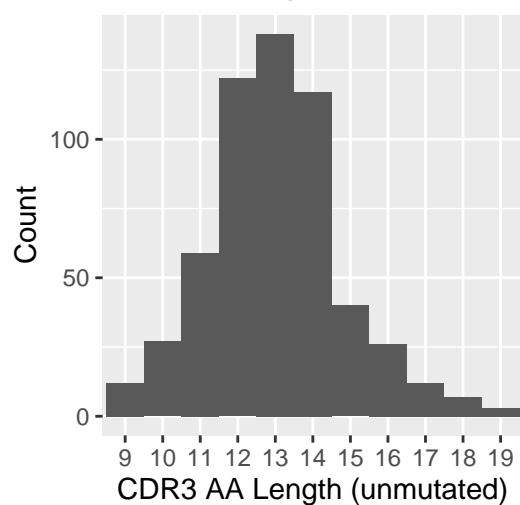
TRBV7-1*ap01_G291C_T296

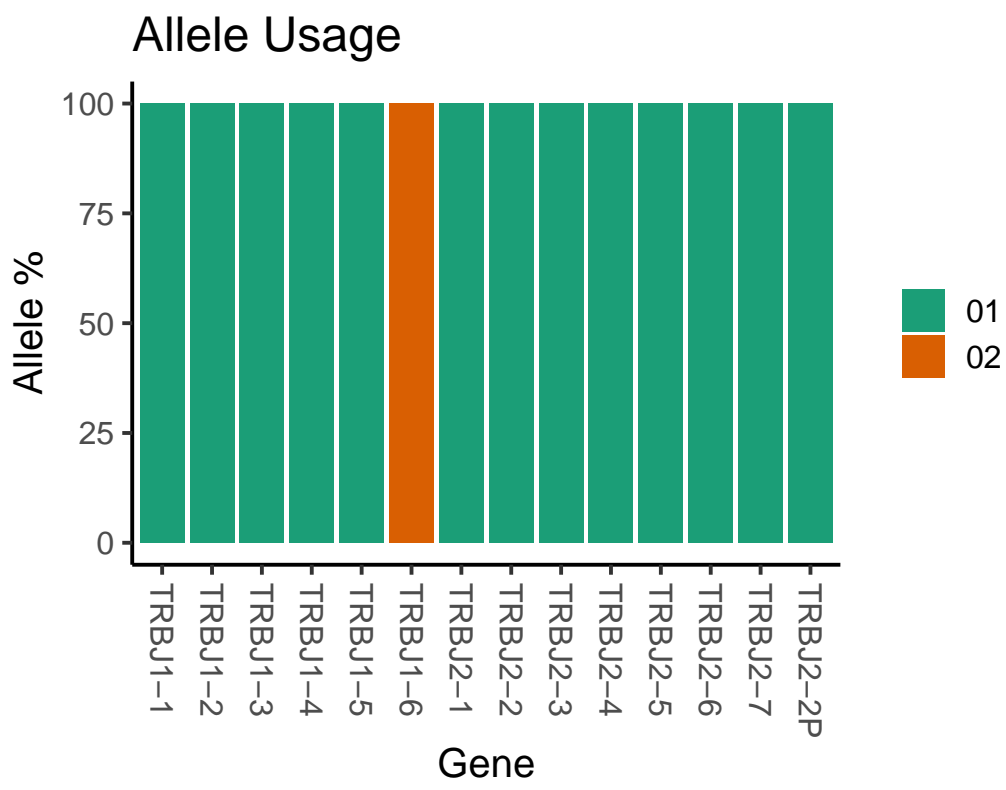


TRBV7-8*ap03_C297A



TRBV7-2*ap01_G297A





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