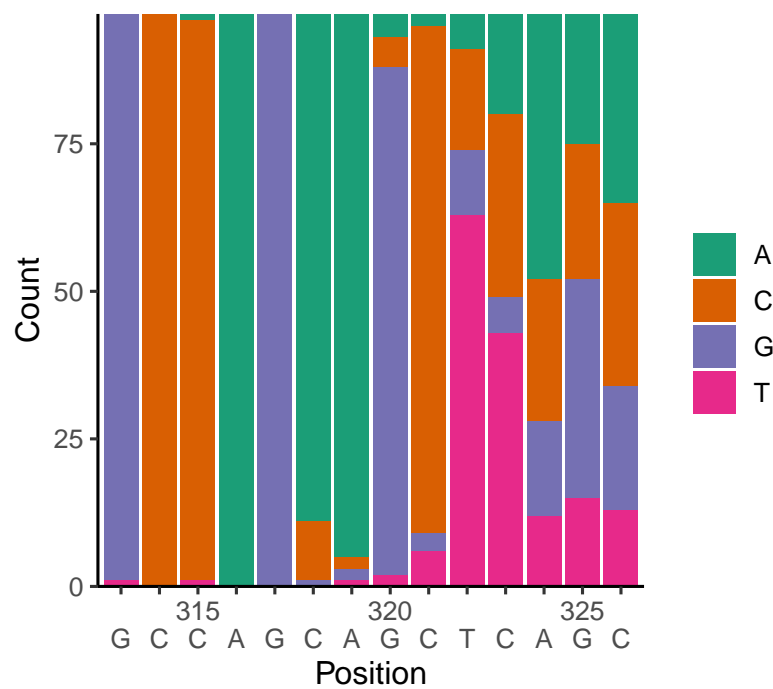
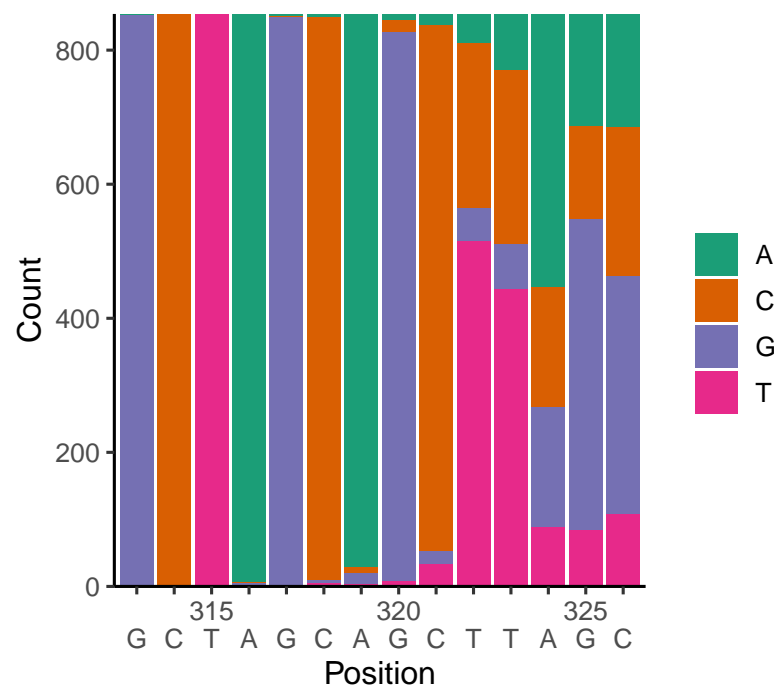


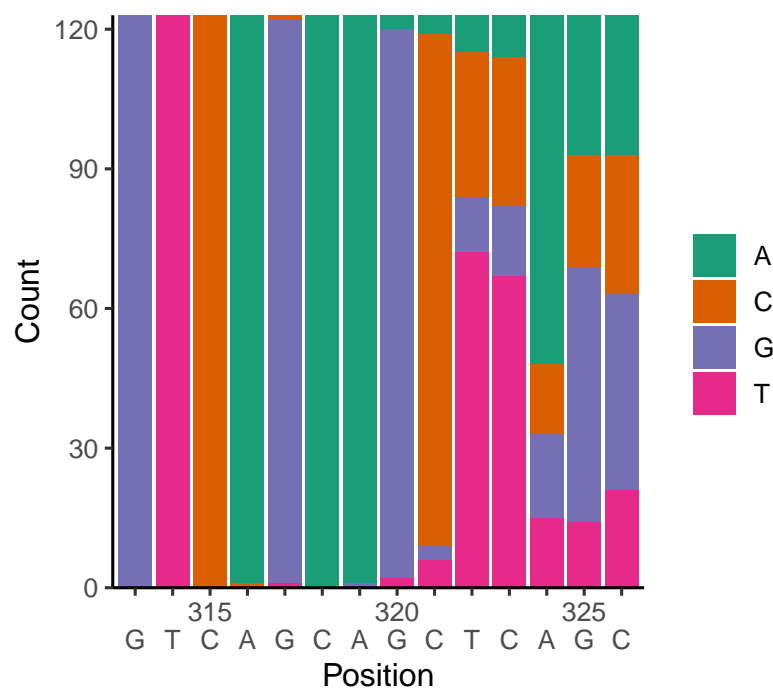
Gene TRBV7-1*ap01_G291C_T296C



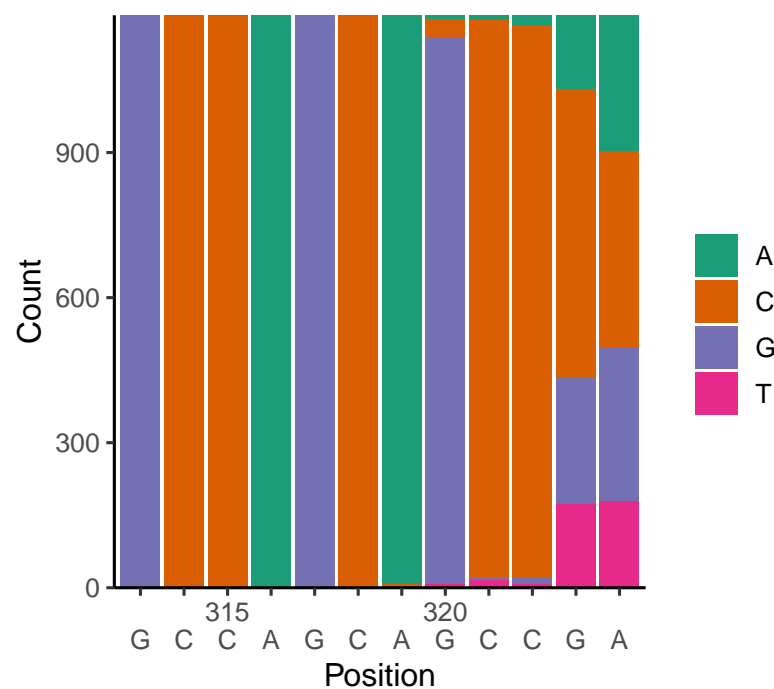
Gene TRBV7-7*ap01_C315T



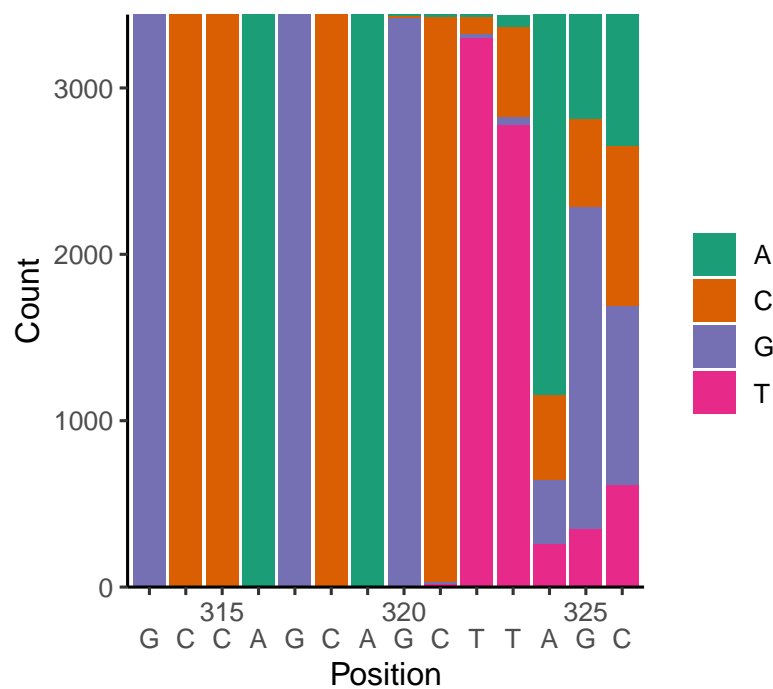
Gene TRBV7-1*ap01_G291C_T296C_C3



Gene TRBV7-8*ap03_C297A



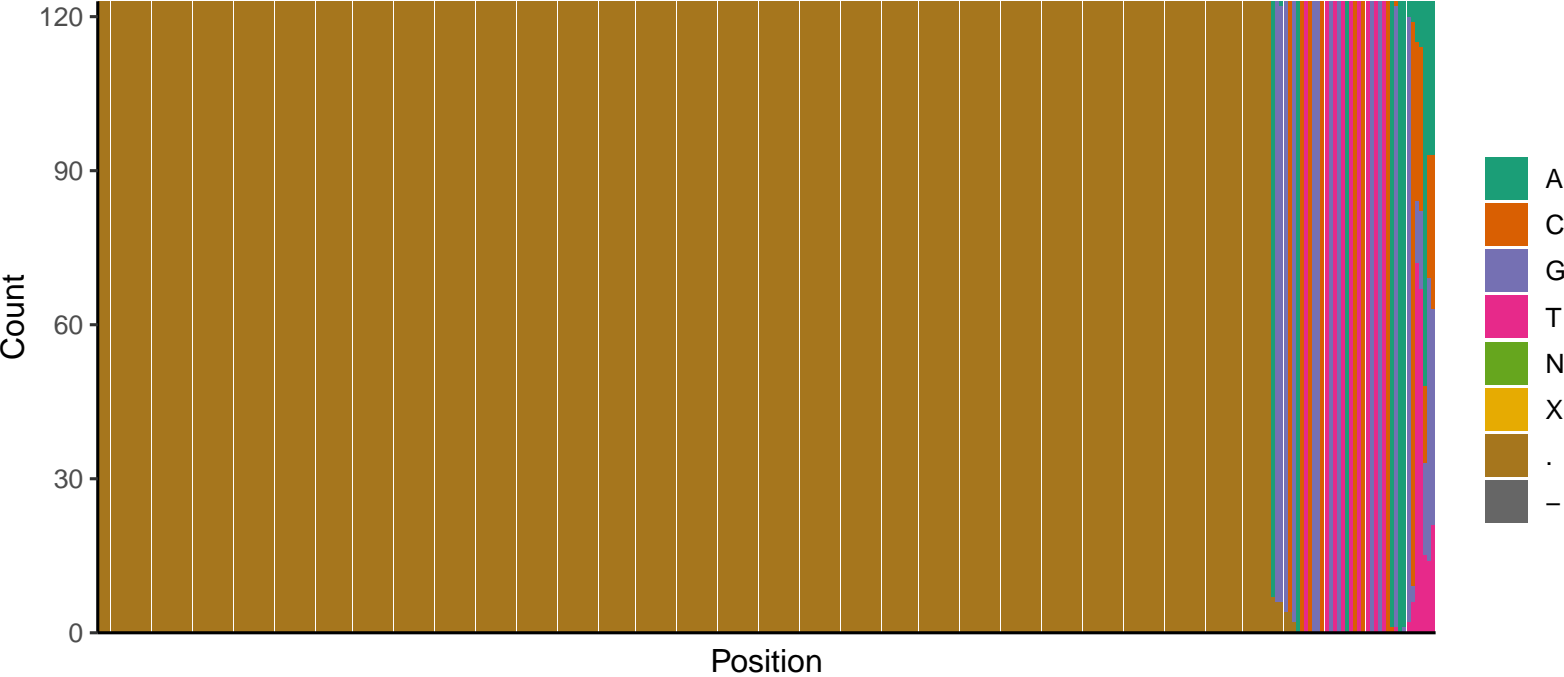
Gene TRBV7-2*ap01_G297A



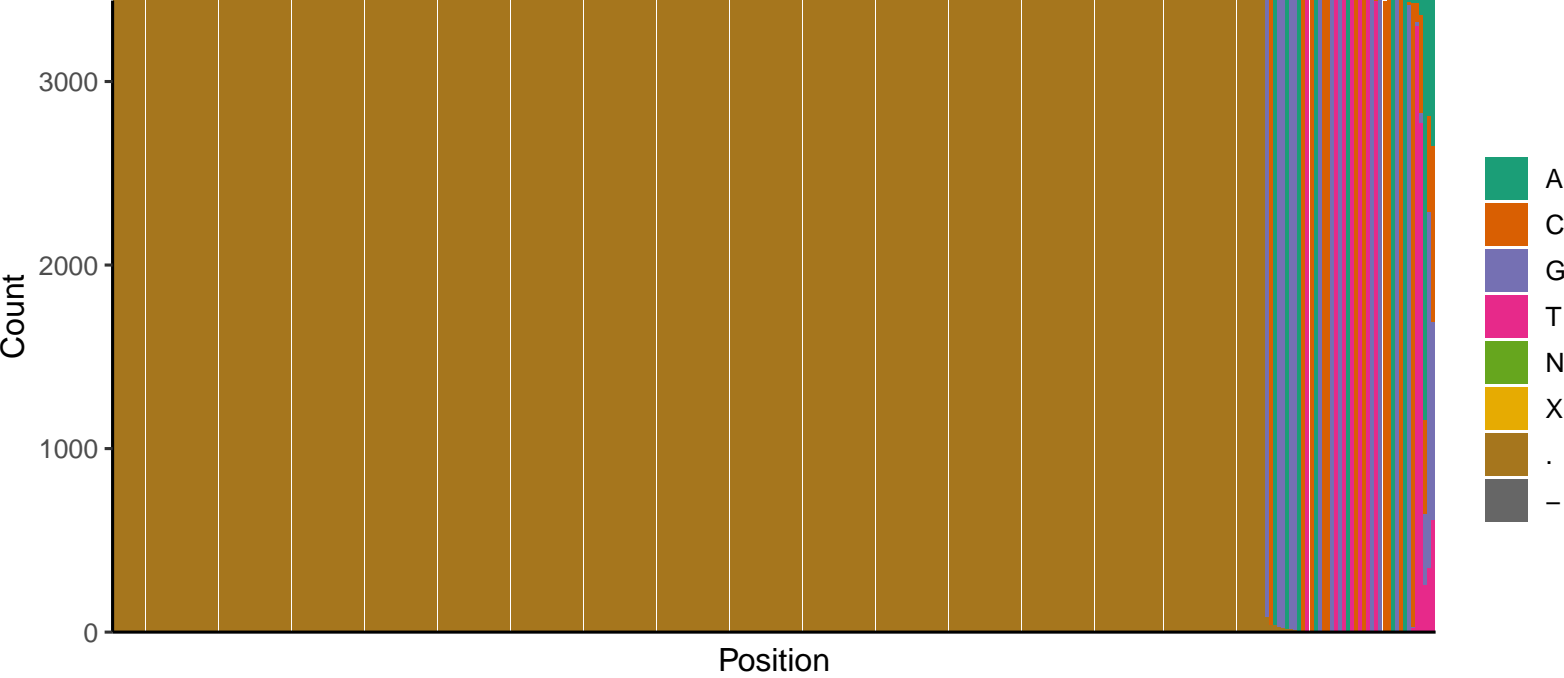
Gene TRBV7-1*ap01_G291C_T296C



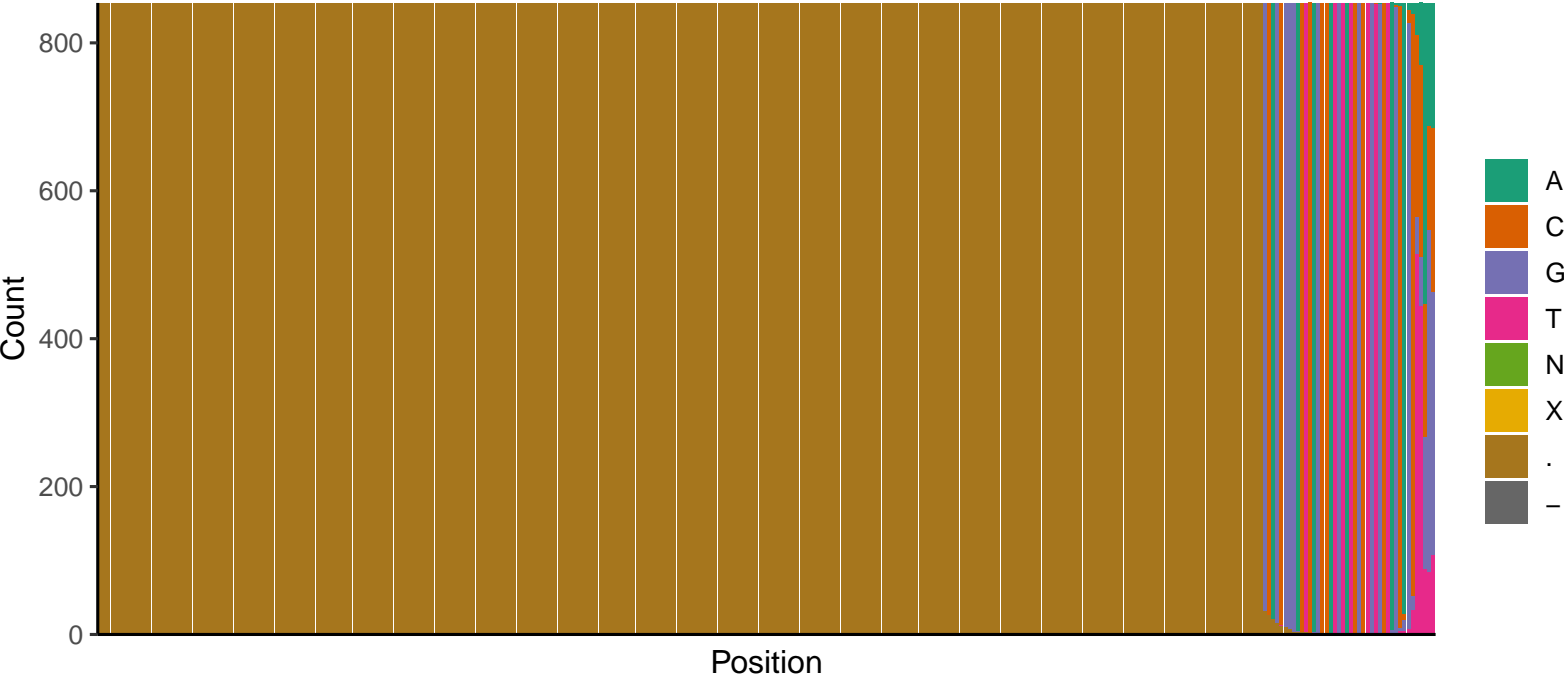
Gene TRBV7-1*ap01_G291C_T296C_C314T



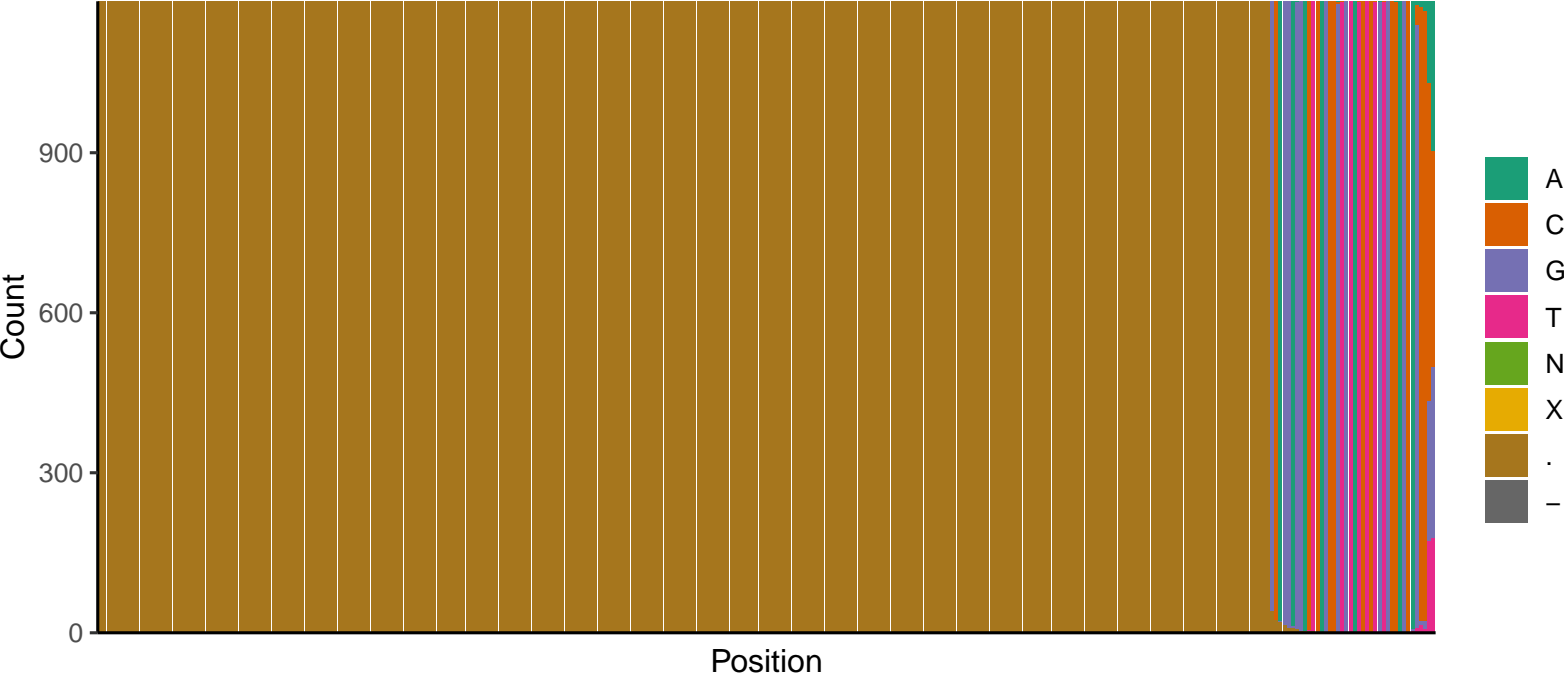
Gene TRBV7-2*ap01_G297A



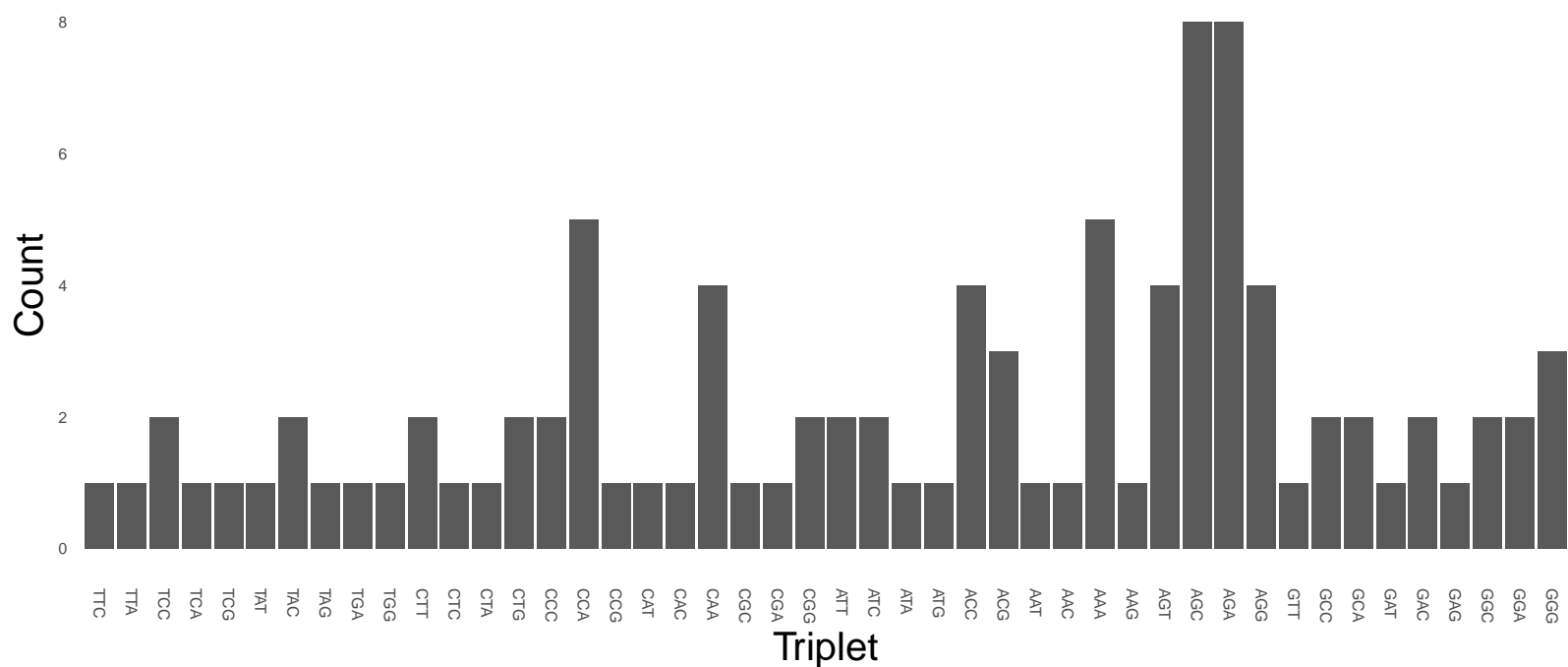
Gene TRBV7-7*ap01_C315T



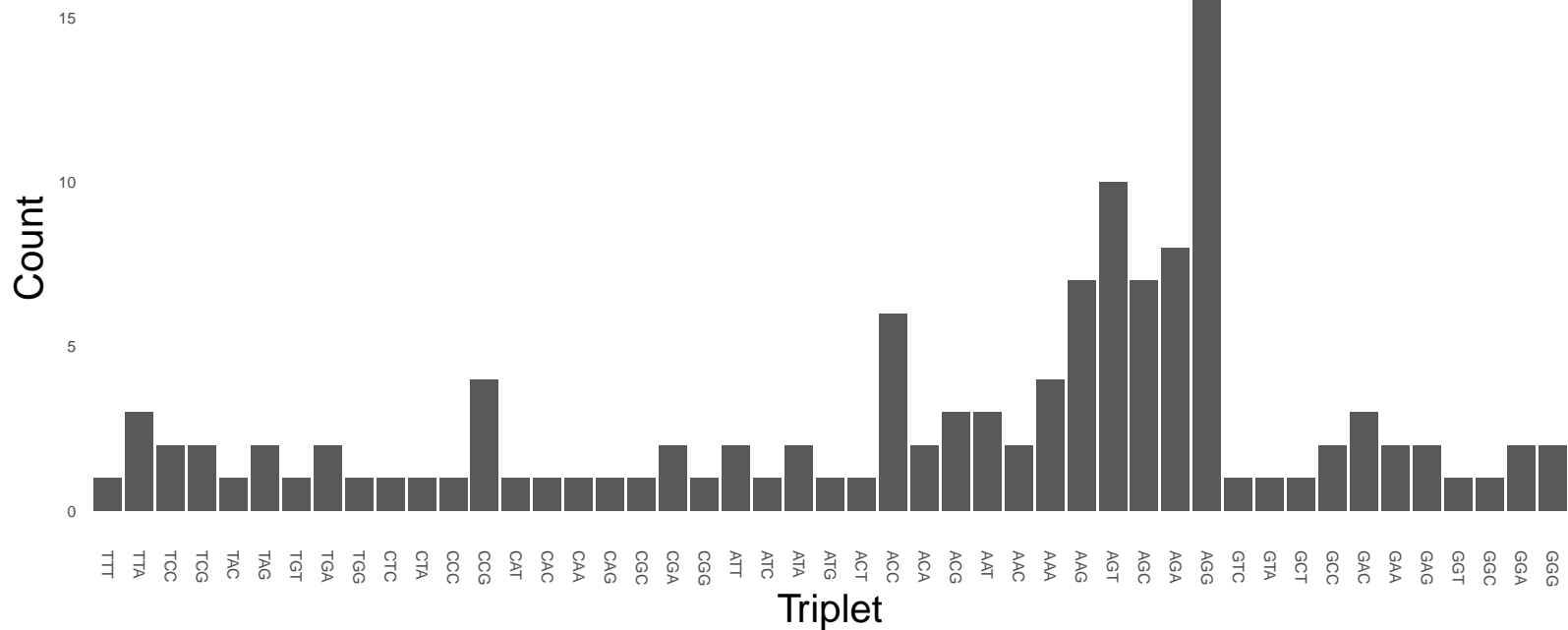
Gene TRBV7-8*ap03_C297A



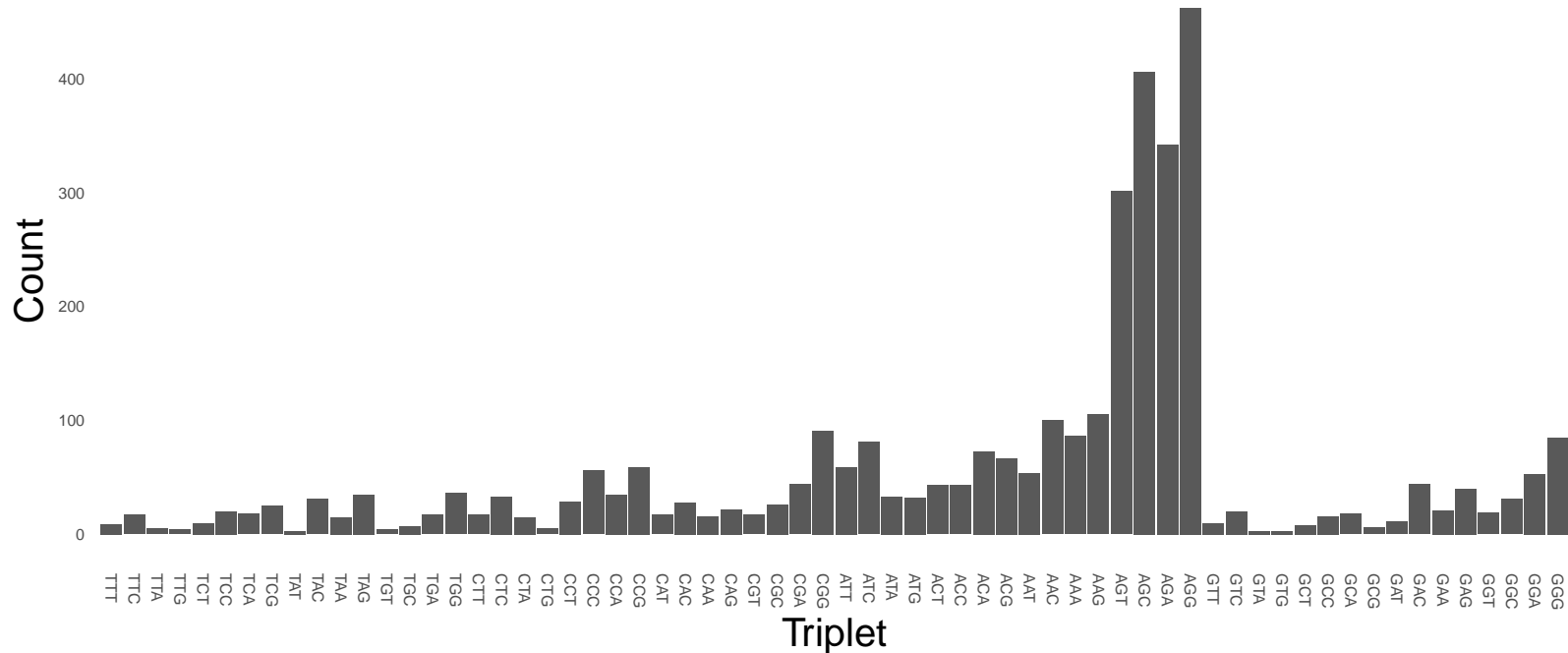
TRBV7-1*ap01_G291C_T296C- Final 3 nucleotides as a triplet



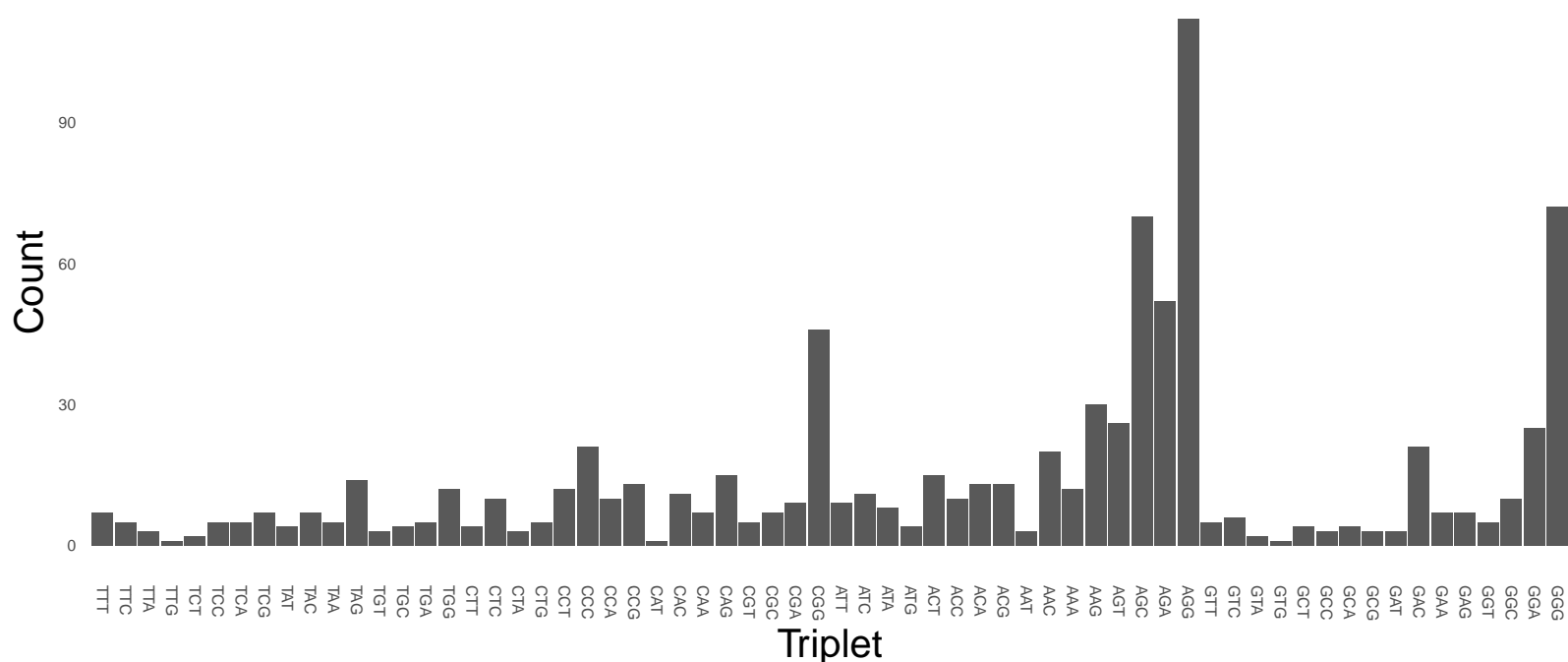
TRBV7-1*ap01_G291C_T296C_C314T- Final 3 nucleotides as a triplet



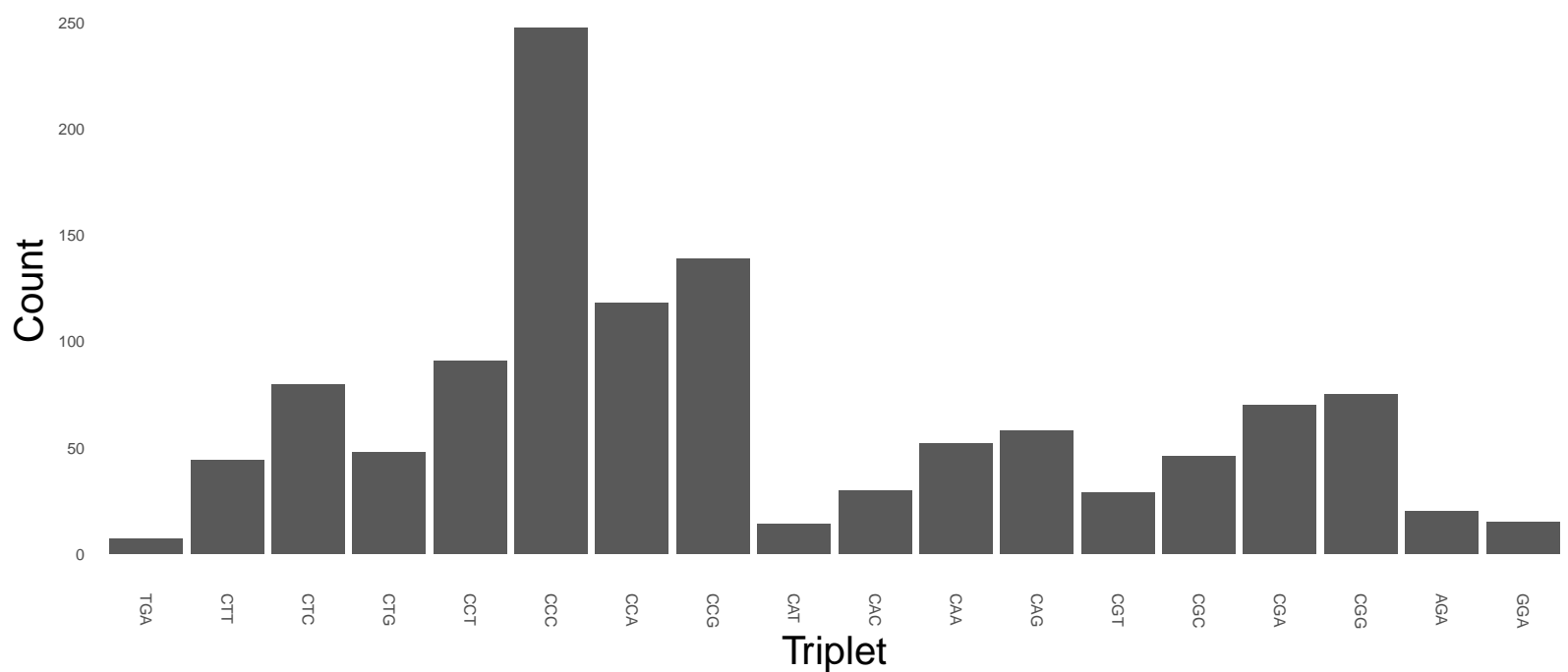
TRBV7-2*ap01_G297A- Final 3 nucleotides as a triplet



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

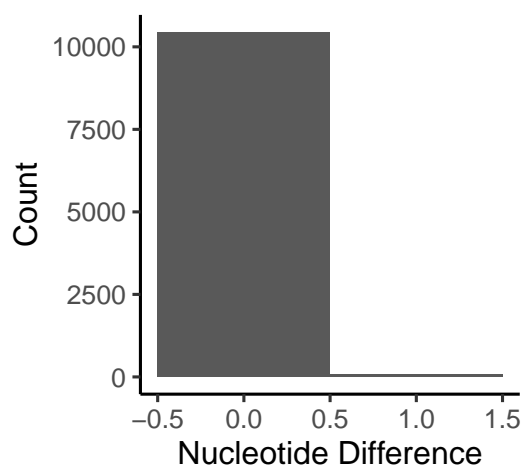


TRBV7-8*ap03_C297A- Final 3 nucleotides as a triplet



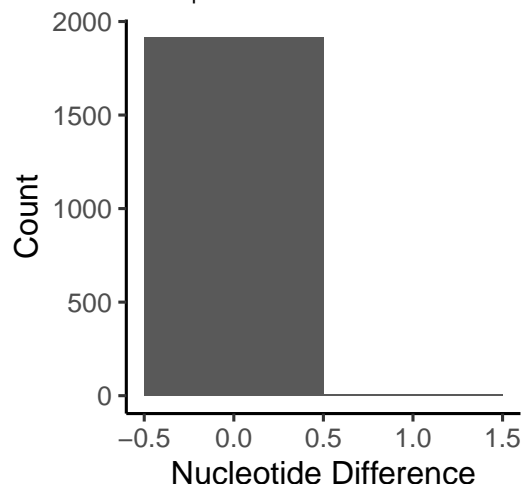
TRBV20-1*ap01

10526 sequences assigned
10445 (99.2%) exact matches, in which:
10344 unique CDR3
13 unique J



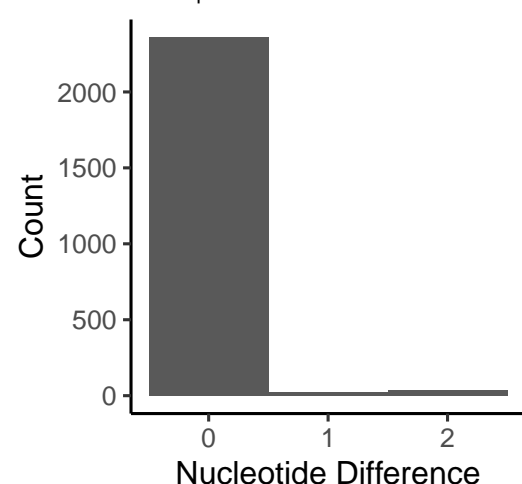
TRBV10-2*ap01

1921 sequences assigned
1915 (99.7%) exact matches, in which:
1893 unique CDR3
13 unique J



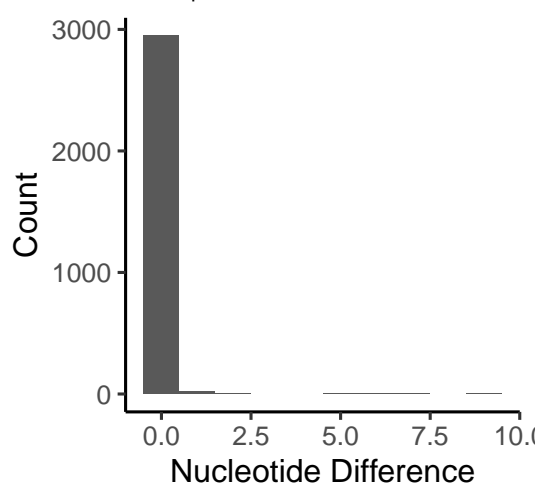
TRBV13*ap01

2417 sequences assigned
2359 (97.6%) exact matches, in which:
2308 unique CDR3
13 unique J



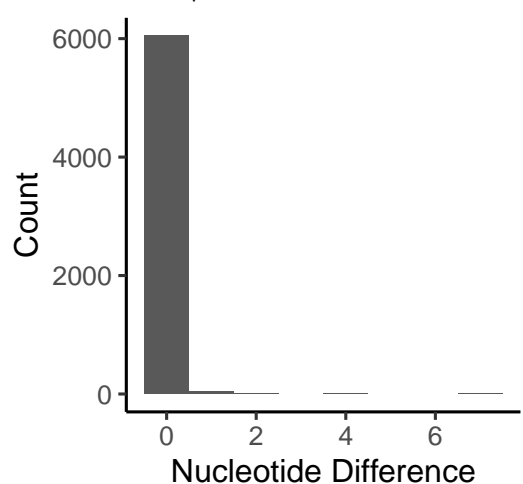
TRBV10-1*ap01

2972 sequences assigned
2948 (99.2%) exact matches, in which:
2911 unique CDR3
13 unique J



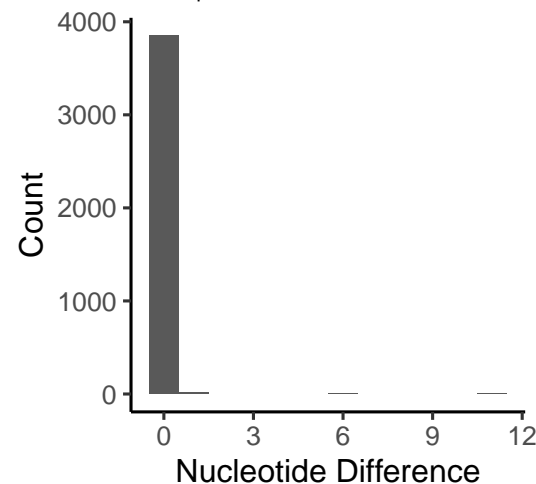
TRBV10-3*ap01

6103 sequences assigned
6049 (99.1%) exact matches, in which:
5971 unique CDR3
13 unique J



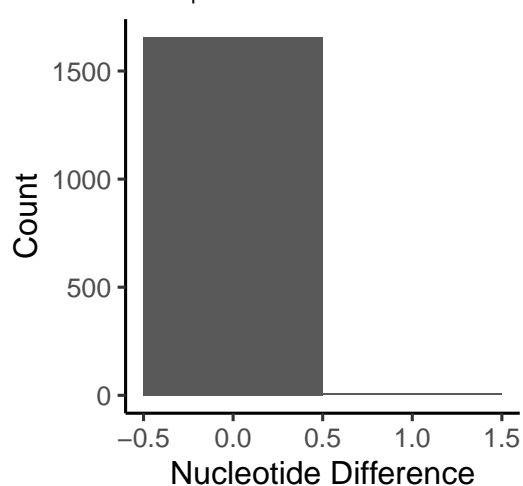
TRBV14*ap01

3871 sequences assigned
3850 (99.5%) exact matches, in which:
3808 unique CDR3
13 unique J



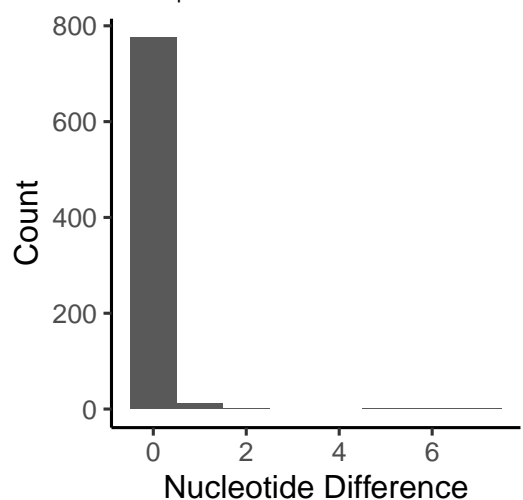
TRBV20-1*ap02

1666 sequences assigned
1657 (99.5%) exact matches, in which:
1647 unique CDR3
13 unique J



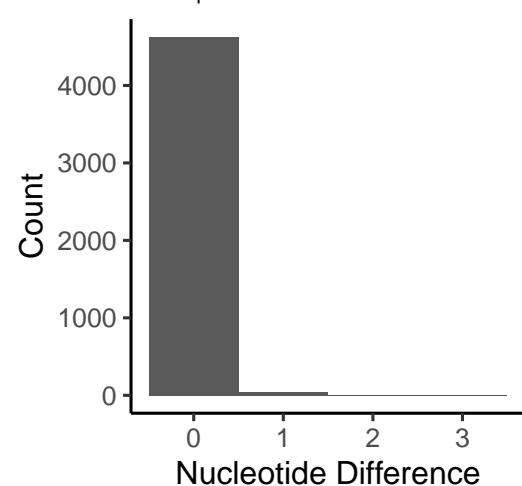
TRBV1*ap01

793 sequences assigned
776 (97.9%) exact matches, in which:
763 unique CDR3
13 unique J



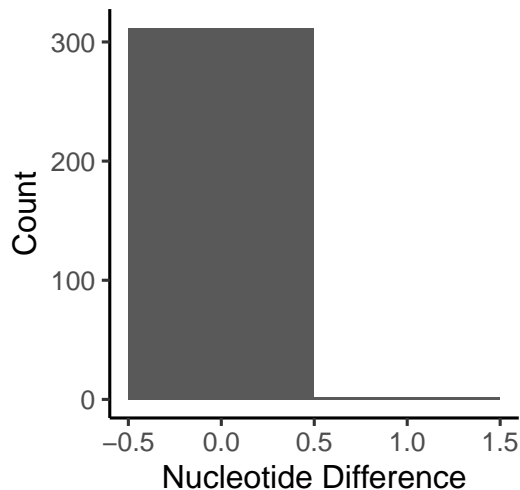
TRBV15*ap02

4668 sequences assigned
4625 (99.1%) exact matches, in which:
4550 unique CDR3
13 unique J



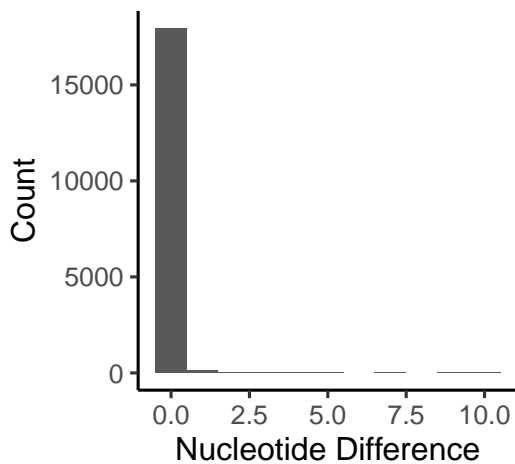
TRBV16*ap01

314 sequences assigned
312 (99.4%) exact matches, in which:
309 unique CDR3
13 unique J



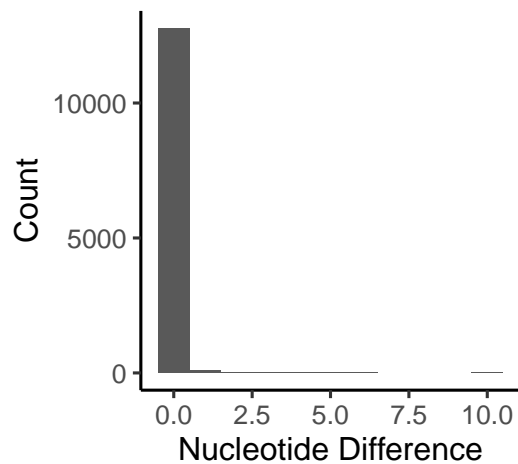
TRBV19*ap01

18082 sequences assigned
17955 (99.3%) exact matches, in which:
17822 unique CDR3
13 unique J



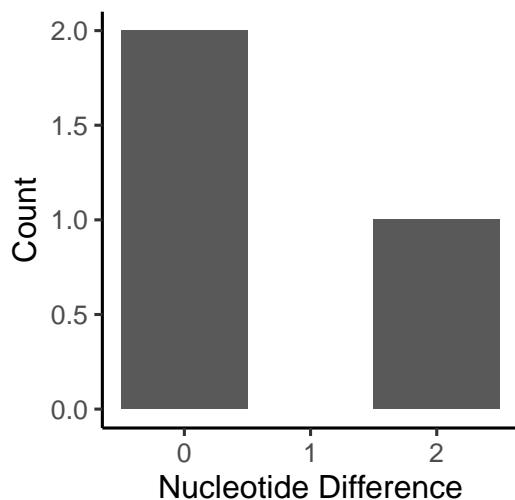
TRBV27*ap01

12891 sequences assigned
12774 (99.1%) exact matches, in which:
12610 unique CDR3
13 unique J



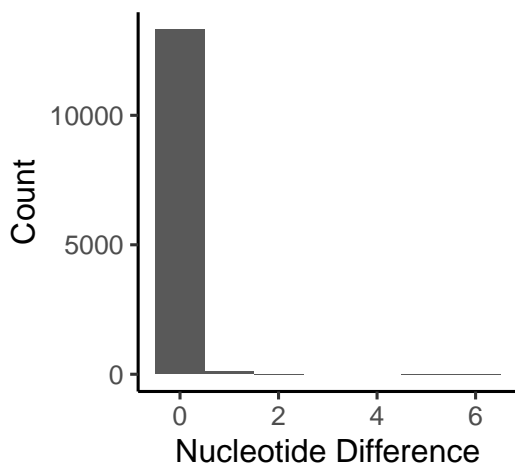
TRBV17*ap01

3 sequences assigned
2 (66.7%) exact matches, in which:
2 unique CDR3
2 unique J



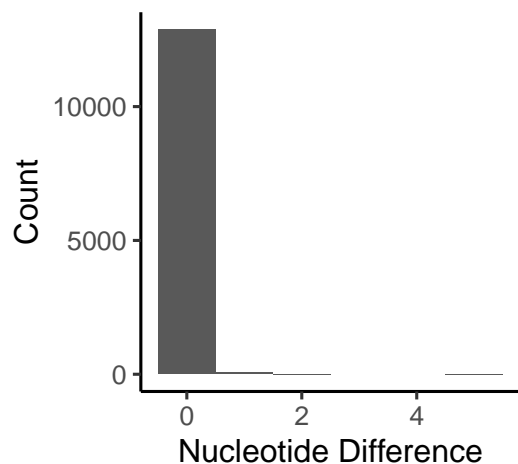
TRBV2*ap01

13415 sequences assigned
13315 (99.3%) exact matches, in which:
13149 unique CDR3
13 unique J



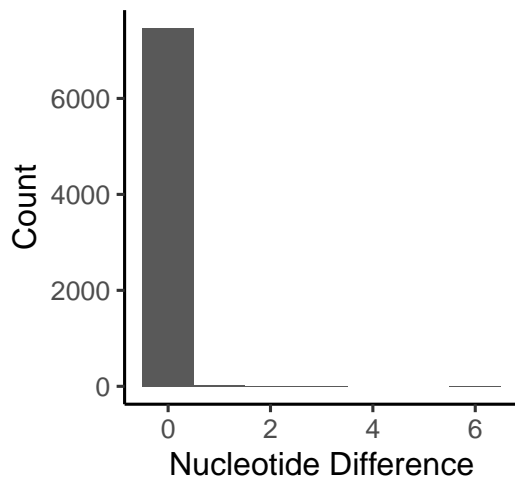
TRBV28*ap01

12950 sequences assigned
12882 (99.5%) exact matches, in which:
12732 unique CDR3
13 unique J



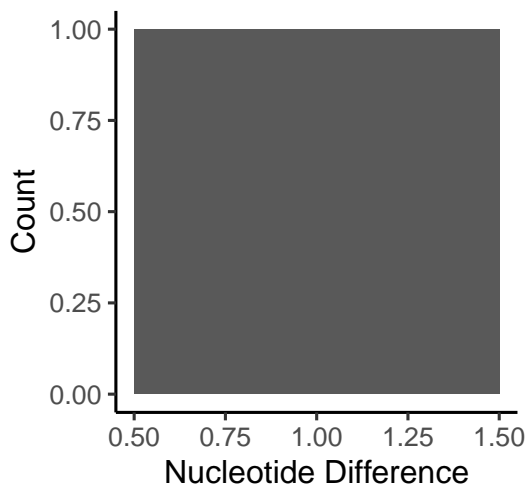
TRBV18*ap01

7505 sequences assigned
7467 (99.5%) exact matches, in which:
7398 unique CDR3
13 unique J



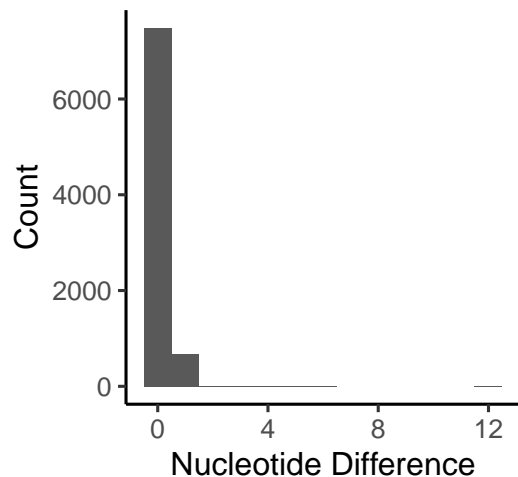
TRBV26*ap01

1 sequences assigned
No exact matches.



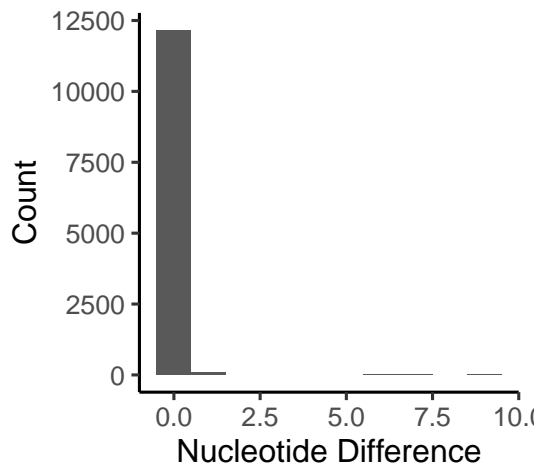
TRBV30*ap01

8176 sequences assigned
7482 (91.5%) exact matches, in which:
7285 unique CDR3
13 unique J



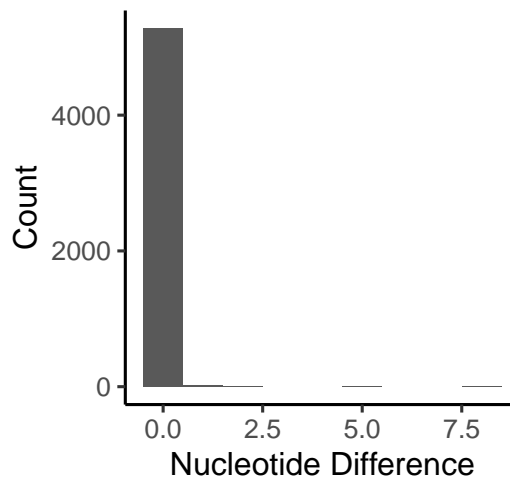
TRBV9*ap01

12241 sequences assigned
12160 (99.3%) exact matches, in which:
12035 unique CDR3
13 unique J



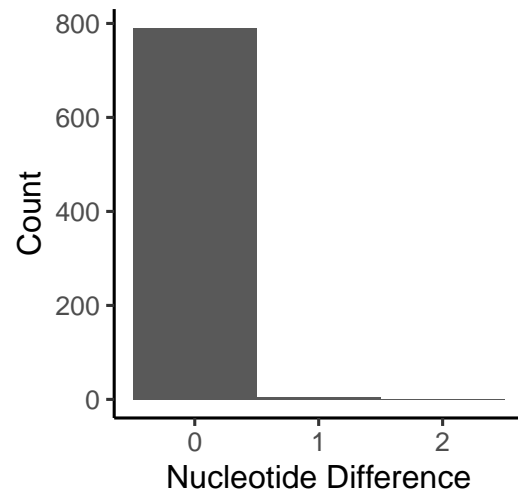
TRBV11-2*ap01

5302 sequences assigned
5278 (99.5%) exact matches, in which:
5247 unique CDR3
13 unique J



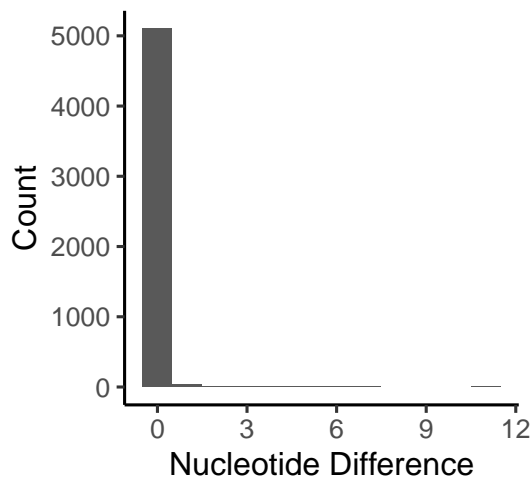
TRBV12-2*ap01

797 sequences assigned
791 (99.2%) exact matches, in which:
781 unique CDR3
13 unique J



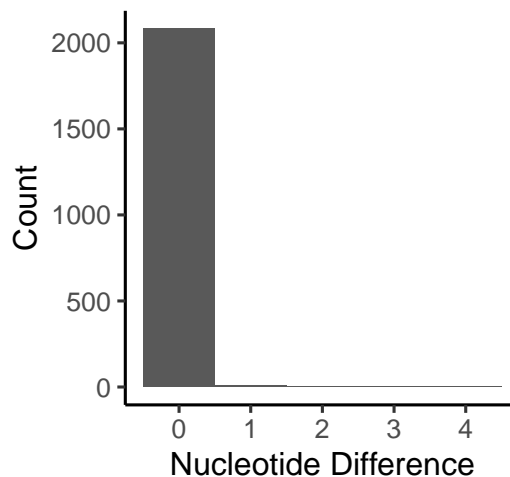
TRBV21-1*ap01

5165 sequences assigned
5101 (98.8%) exact matches, in which:
5067 unique CDR3
14 unique J



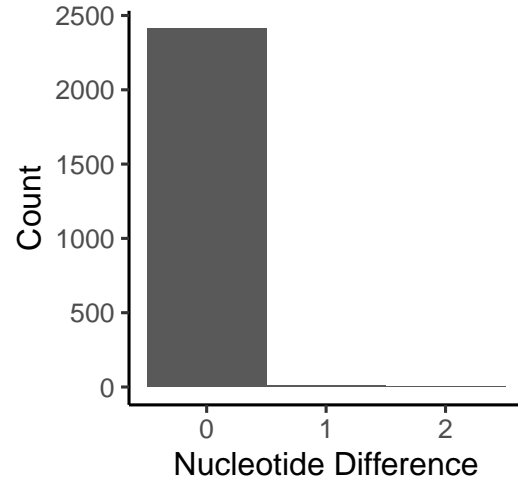
TRBV11-3*ap01

2096 sequences assigned
2082 (99.3%) exact matches, in which:
2072 unique CDR3
13 unique J



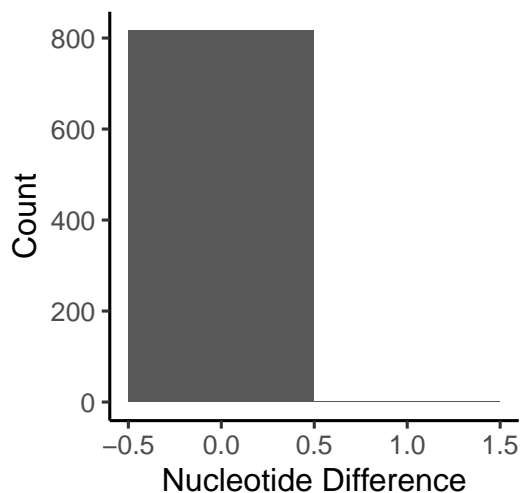
TRBV12-5*ap01

2423 sequences assigned
2411 (99.5%) exact matches, in which:
2385 unique CDR3
13 unique J



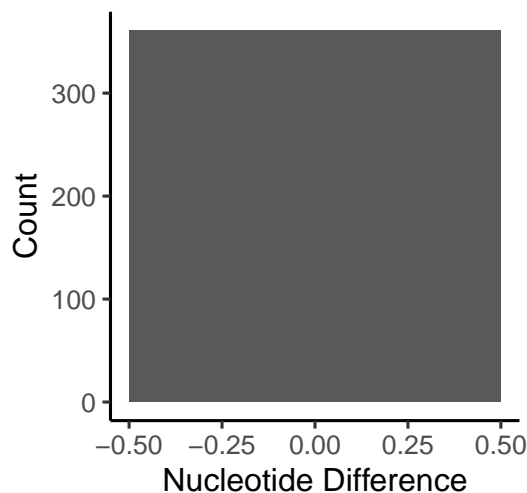
TRBV11-1*ap01

819 sequences assigned
817 (99.8%) exact matches, in which:
815 unique CDR3
13 unique J



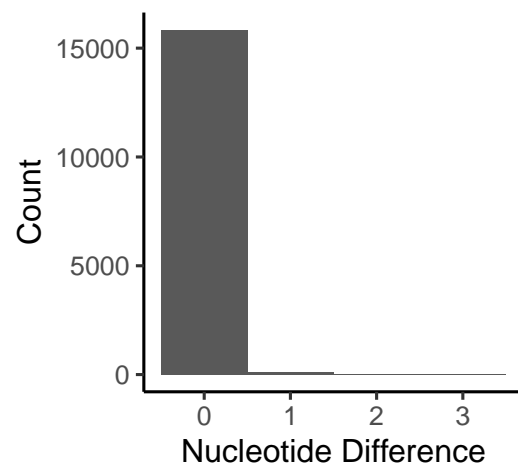
TRBV12-1*ap01

361 sequences assigned
361 (100%) exact matches, in which:
359 unique CDR3
13 unique J



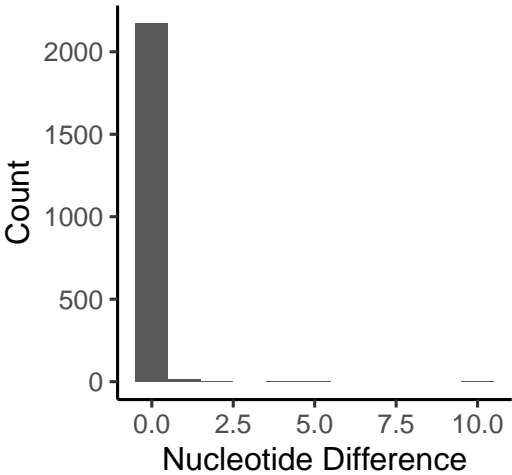
TRBV12-34*ap01

15964 sequences assigned
15844 (99.2%) exact matches, in which:
15638 unique CDR3
13 unique J



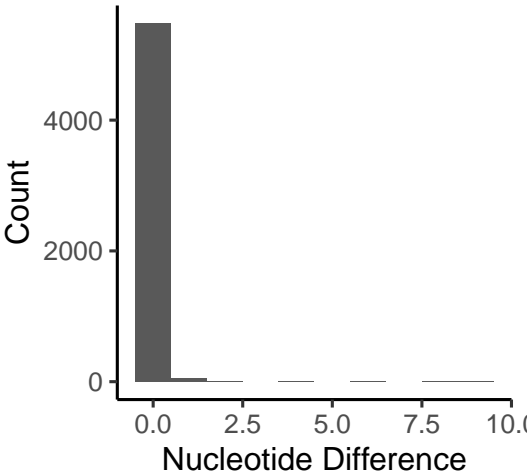
TRBV23-1*ap01

2192 sequences assigned
2172 (99.1%) exact matches, in which:
2144 unique CDR3
13 unique J



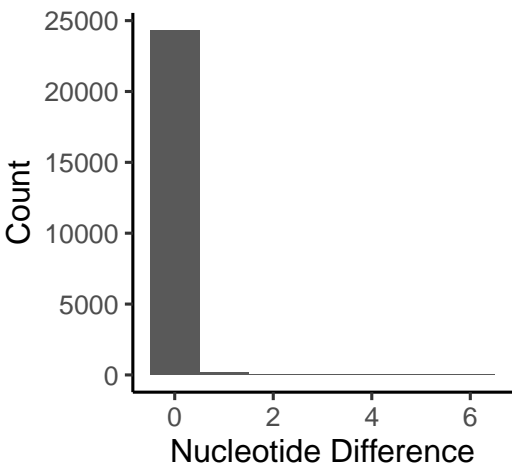
TRBV24-1*ap01

5552 sequences assigned
5479 (98.7%) exact matches, in which:
5402 unique CDR3
13 unique J



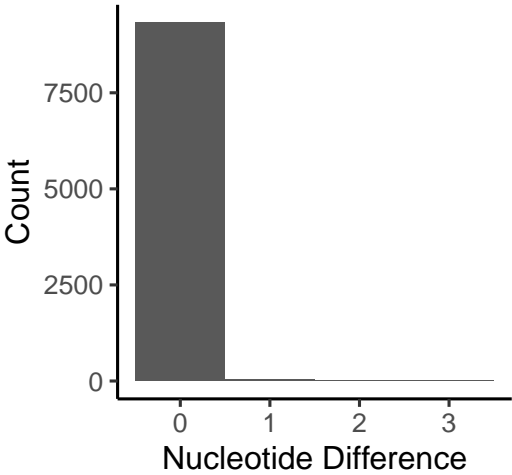
TRBV5-1*ap01

24496 sequences assigned
24328 (99.3%) exact matches, in which:
23943 unique CDR3
13 unique J



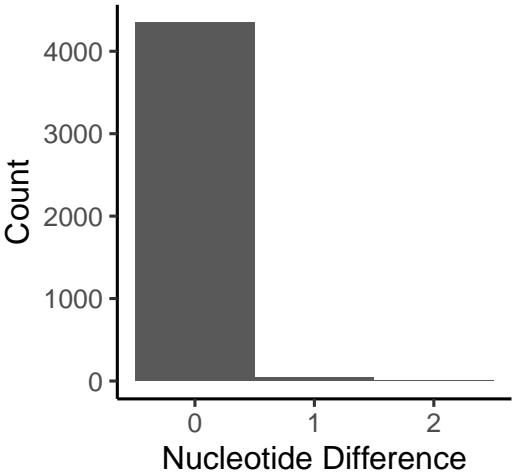
TRBV3-12*ap01

9366 sequences assigned
9323 (99.5%) exact matches, in which:
9244 unique CDR3
13 unique J



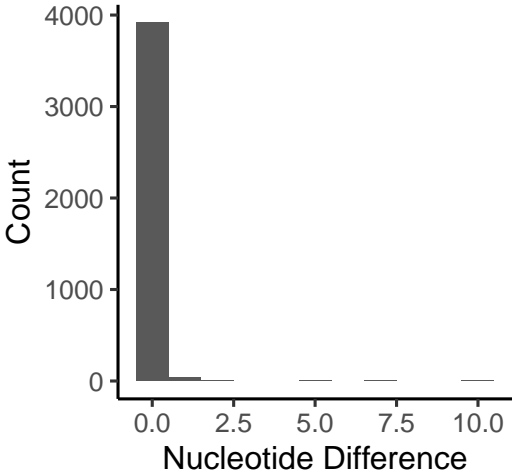
TRBV4-2*ap01

4389 sequences assigned
4346 (99%) exact matches, in which:
4267 unique CDR3
13 unique J



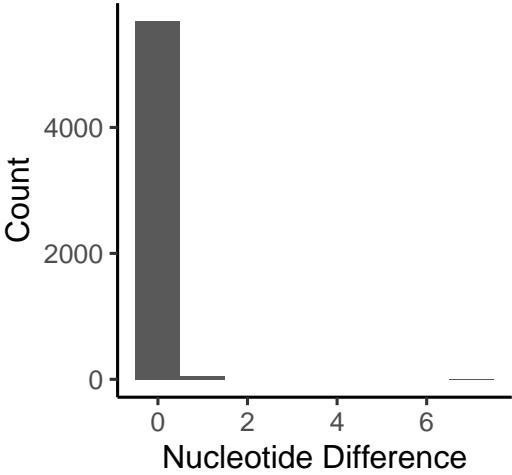
TRBV25-1*ap01

3957 sequences assigned
3916 (99%) exact matches, in which:
3828 unique CDR3
13 unique J



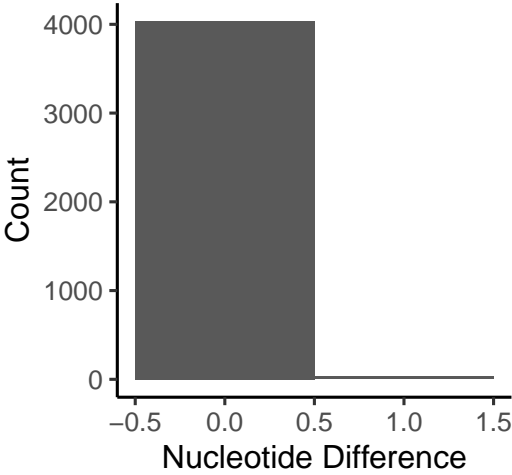
TRBV4-1*ap01

5743 sequences assigned
5689 (99.1%) exact matches, in which:
5564 unique CDR3
13 unique J



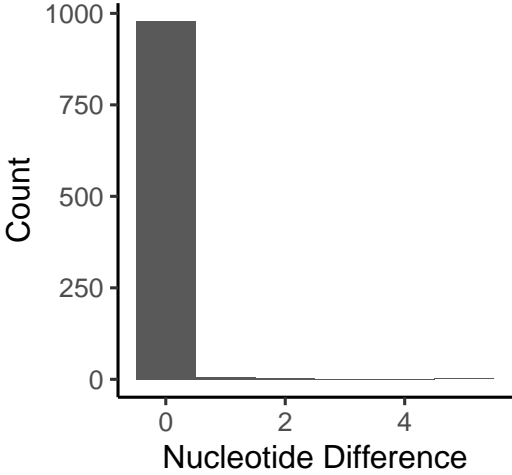
TRBV4-3*ap01

4068 sequences assigned
4037 (99.2%) exact matches, in which:
3948 unique CDR3
13 unique J



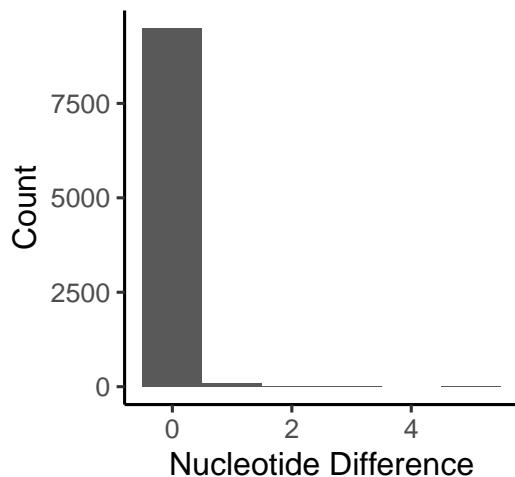
TRBV5-3*ap01

992 sequences assigned
979 (98.7%) exact matches, in which:
961 unique CDR3
13 unique J



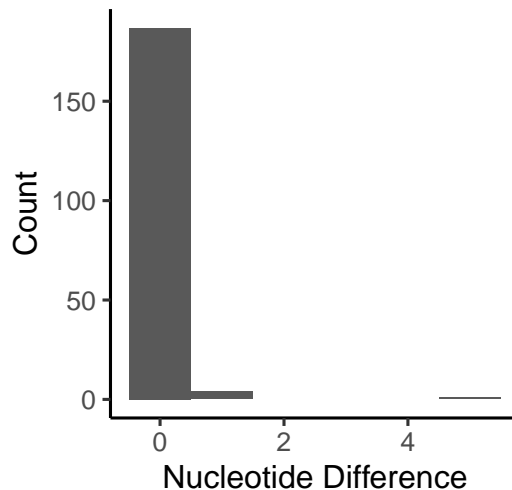
TRBV5-4*ap01

9580 sequences assigned
9485 (99%) exact matches, in which:
9332 unique CDR3
13 unique J



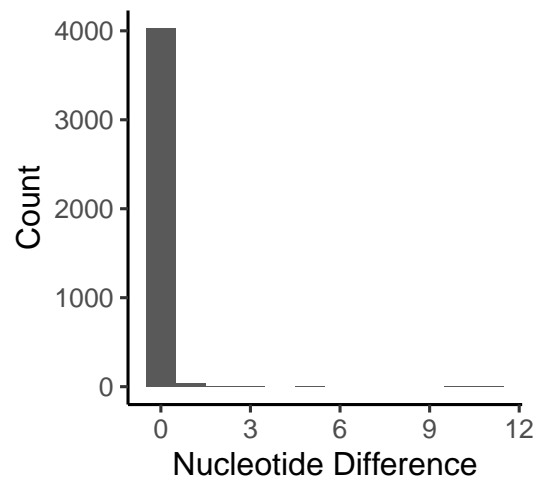
TRBV5-7*ap01

192 sequences assigned
187 (97.4%) exact matches, in which:
184 unique CDR3
13 unique J



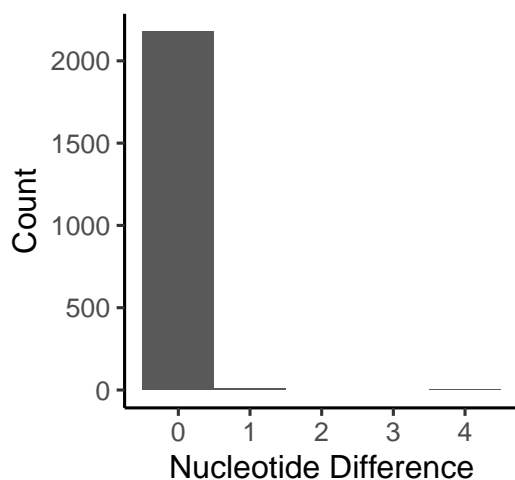
TRBV6-4*ap01

4074 sequences assigned
4027 (98.8%) exact matches, in which:
3987 unique CDR3
13 unique J



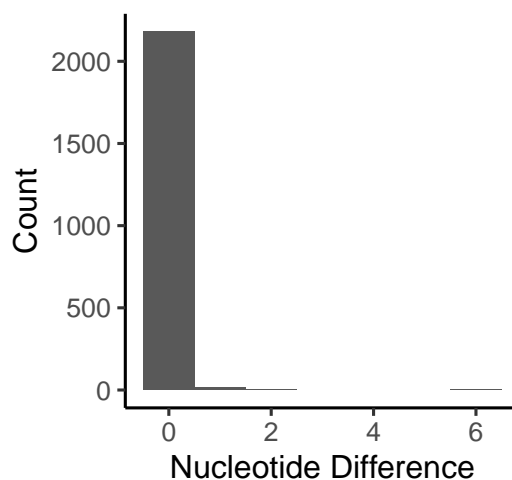
TRBV5-5*ap01

2190 sequences assigned
2177 (99.4%) exact matches, in which:
2170 unique CDR3
13 unique J



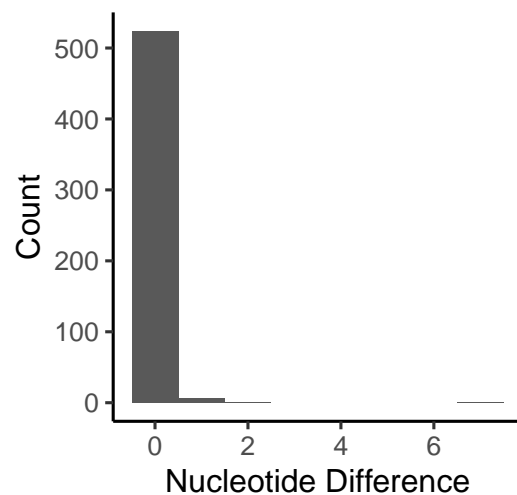
TRBV5-8*ap01

2198 sequences assigned
2180 (99.2%) exact matches, in which:
2159 unique CDR3
13 unique J



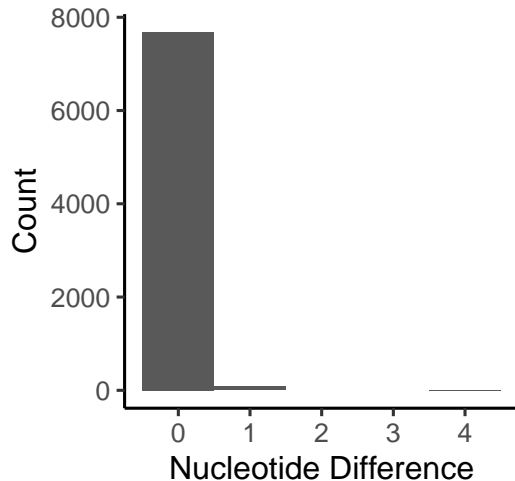
TRBV6-7*ap01

533 sequences assigned
524 (98.3%) exact matches, in which:
512 unique CDR3
13 unique J



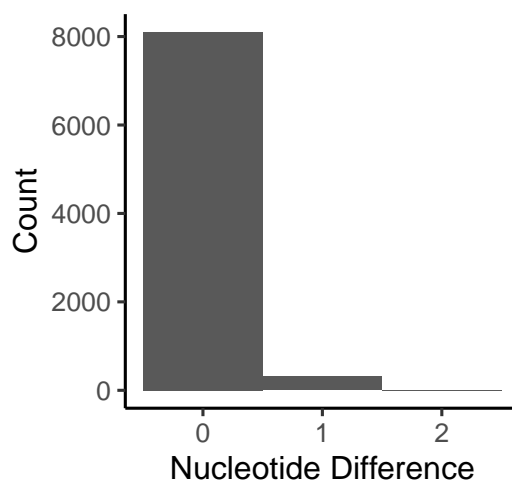
TRBV5-6*ap01

7767 sequences assigned
7683 (98.9%) exact matches, in which:
7486 unique CDR3
13 unique J



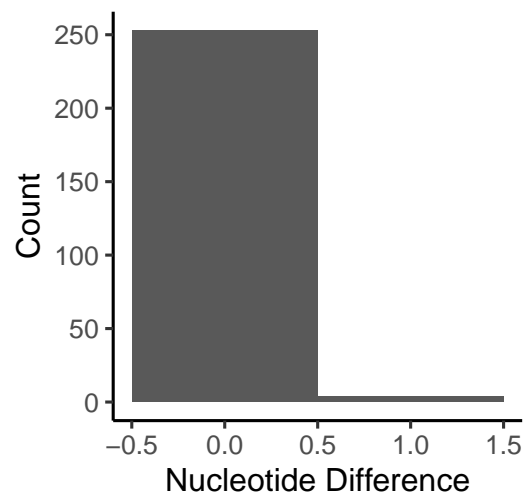
TRBV6-1*ap01

8413 sequences assigned
8102 (96.3%) exact matches, in which:
7986 unique CDR3
13 unique J



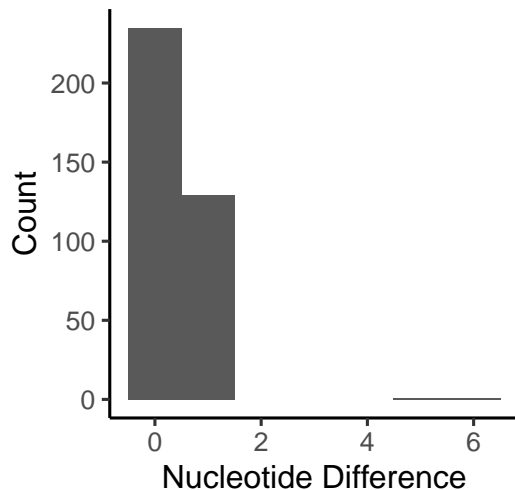
TRBV6-8*ap01

257 sequences assigned
253 (98.4%) exact matches, in which:
247 unique CDR3
13 unique J



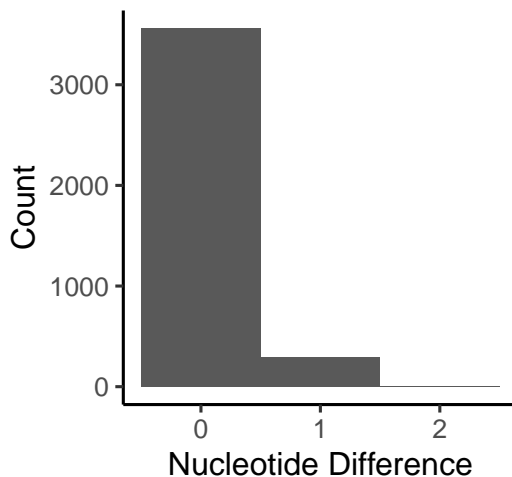
TRBV6-9*ap01

366 sequences assigned
235 (64.2%) exact matches, in which:
228 unique CDR3
13 unique J



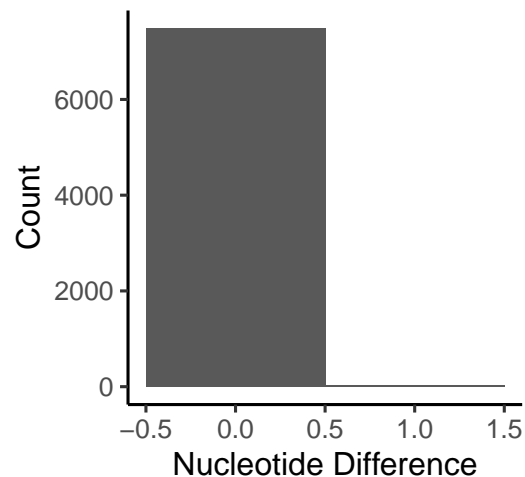
TRBV6-56*ap02

3859 sequences assigned
3560 (92.3%) exact matches, in which:
3480 unique CDR3
13 unique J



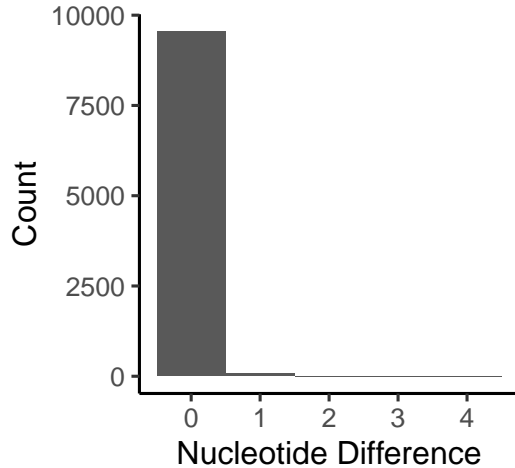
TRBV7-2*ap01

7520 sequences assigned
7484 (99.5%) exact matches, in which:
7371 unique CDR3
13 unique J



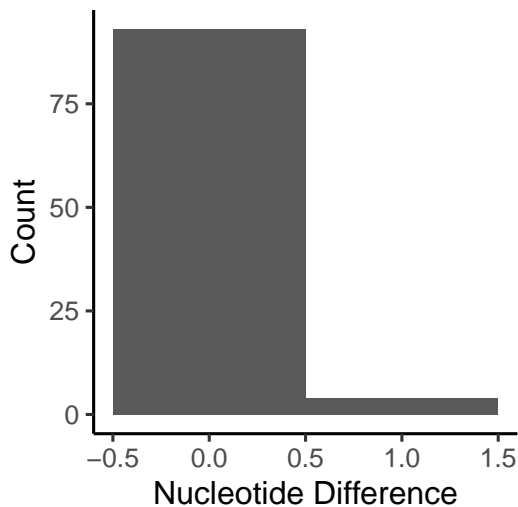
TRBV6-23*ap01

9631 sequences assigned
9549 (99.1%) exact matches, in which:
9317 unique CDR3
13 unique J



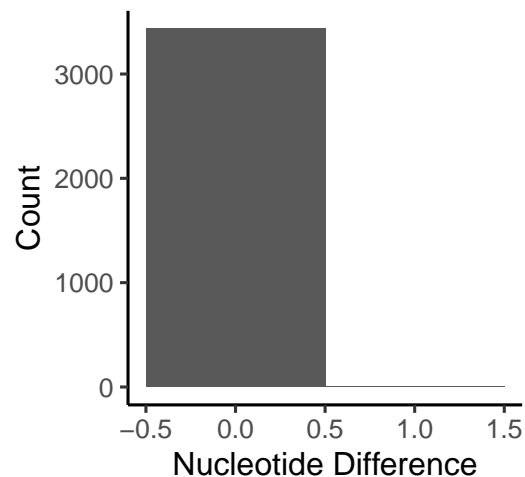
TRBV7-1*ap01_G291C_T

97 sequences assigned
93 (95.9%) exact matches, in which:
92 unique CDR3
13 unique J



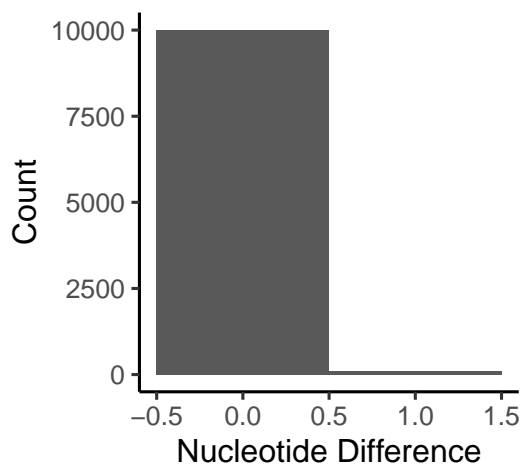
TRBV7-2*ap01_G297A

3441 sequences assigned
3434 (99.8%) exact matches, in which:
3396 unique CDR3
13 unique J



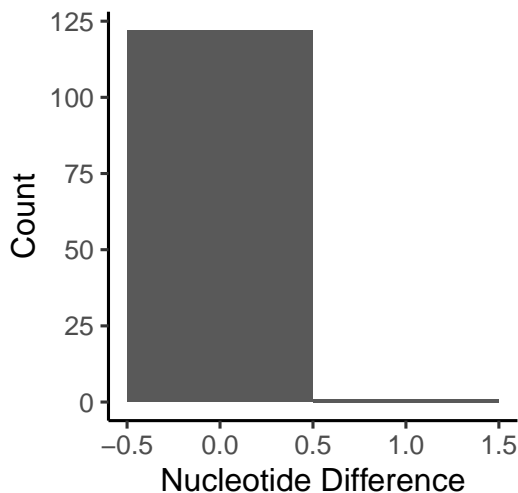
TRBV6-56*ap01

10102 sequences assigned
10009 (99.1%) exact matches, in which:
9833 unique CDR3
13 unique J



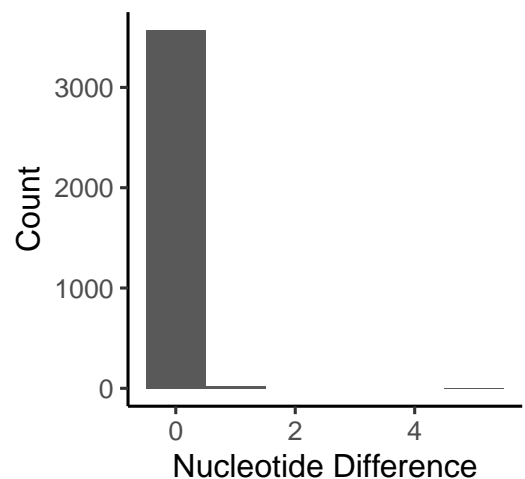
TRBV7-1*ap01_G291C_

123 sequences assigned
122 (99.2%) exact matches, in which:
122 unique CDR3
13 unique J



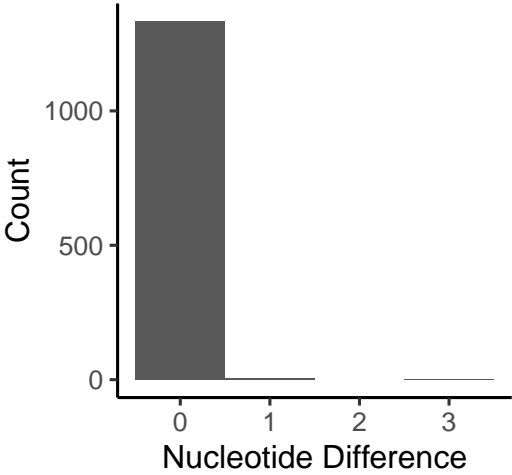
TRBV7-3*ap01

3597 sequences assigned
3572 (99.3%) exact matches, in which:
3542 unique CDR3
13 unique J



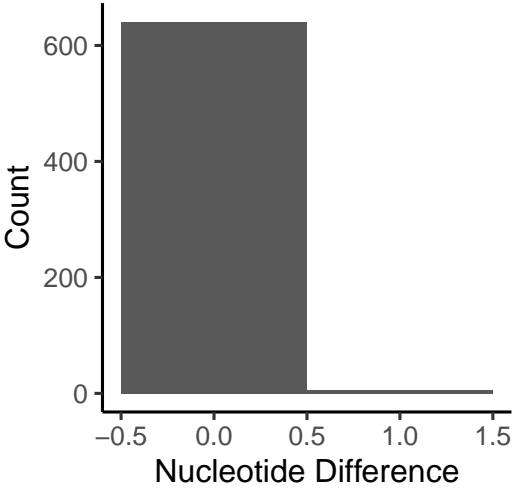
TRBV7-3*ap03

1340 sequences assigned
1333 (99.5%) exact matches, in which:
1324 unique CDR3
13 unique J



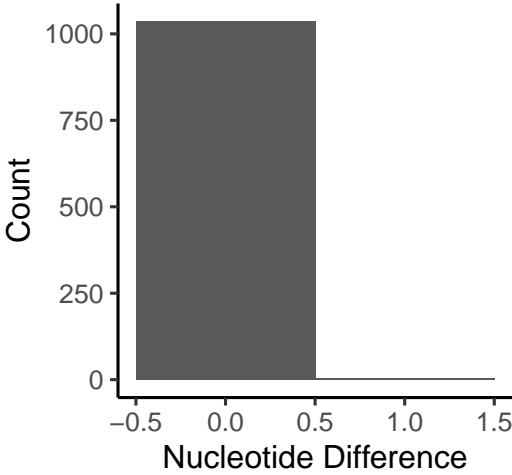
TRBV7-7*ap01

647 sequences assigned
641 (99.1%) exact matches, in which:
633 unique CDR3
13 unique J



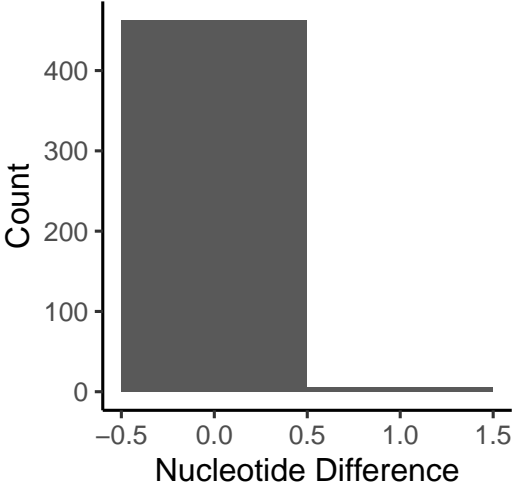
TRBV7-8*ap03

1039 sequences assigned
1036 (99.7%) exact matches, in which:
1025 unique CDR3
13 unique J



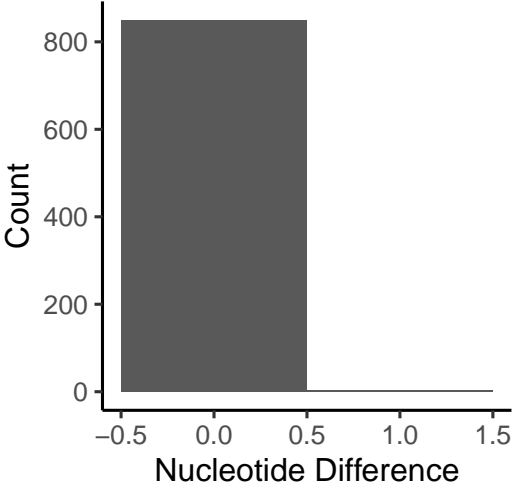
TRBV7-4*ap01

468 sequences assigned
463 (98.9%) exact matches, in which:
457 unique CDR3
13 unique J



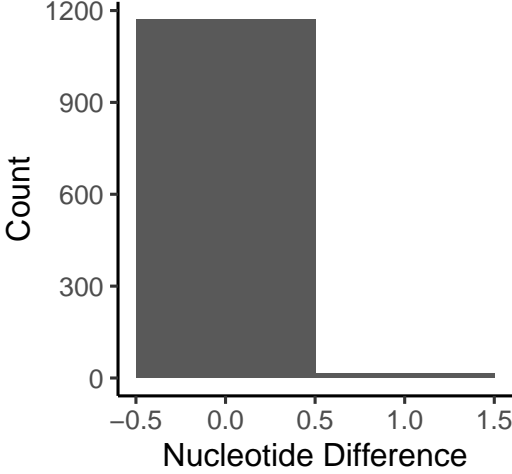
TRBV7-7*ap01_C315T

854 sequences assigned
850 (99.5%) exact matches, in which:
842 unique CDR3
13 unique J



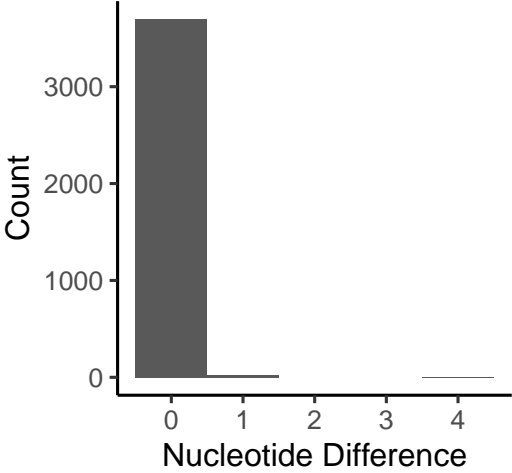
TRBV7-8*ap03_C297A

1184 sequences assigned
1170 (98.8%) exact matches, in which:
1161 unique CDR3
13 unique J



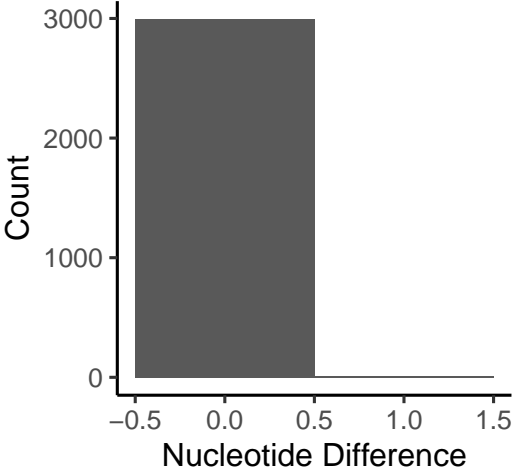
TRBV7-6*ap01

3720 sequences assigned
3698 (99.4%) exact matches, in which:
3645 unique CDR3
13 unique J



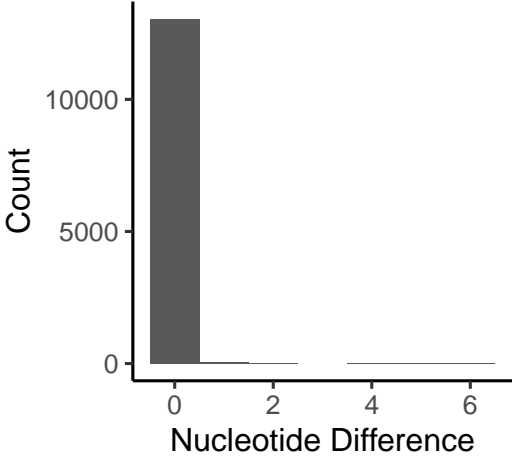
TRBV7-8*ap01

3005 sequences assigned
2995 (99.7%) exact matches, in which:
2952 unique CDR3
13 unique J



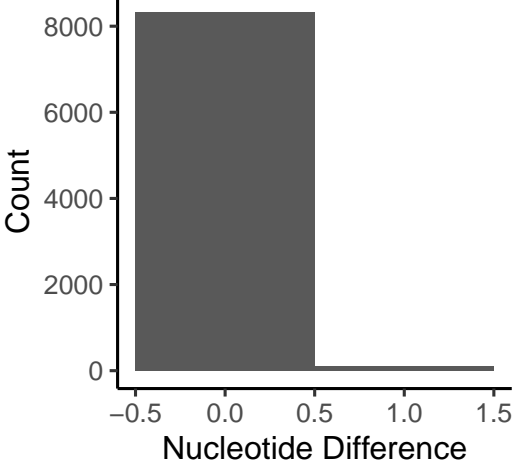
TRBV7-9*ap01

13116 sequences assigned
13050 (99.5%) exact matches, in which:
12870 unique CDR3
13 unique J



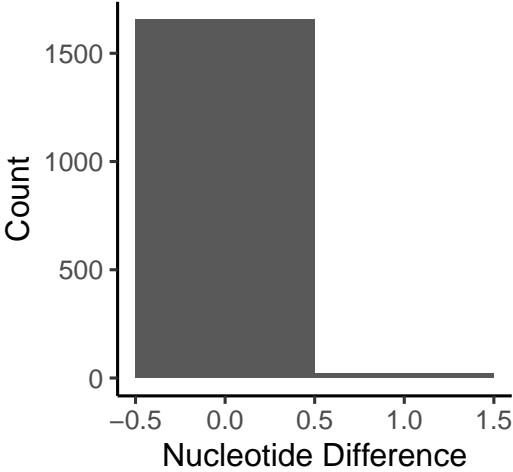
TRBV29-1*ap01

8416 sequences assigned
8320 (98.9%) exact matches, in which:
8082 unique CDR3
13 unique J

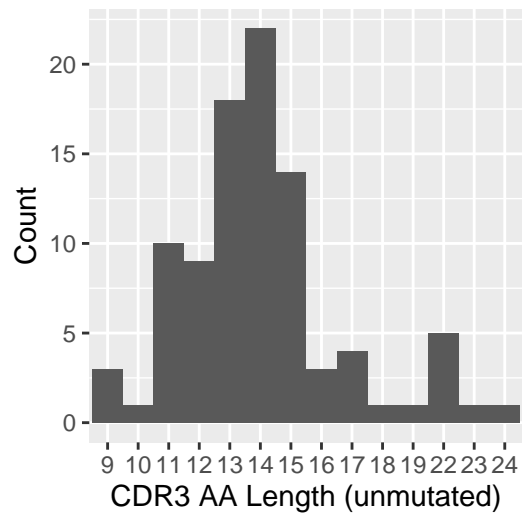


TRBV29-1*ap02

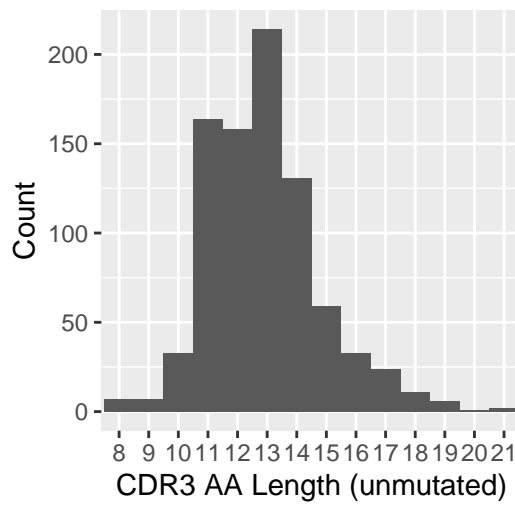
1677 sequences assigned
1655 (98.7%) exact matches, in which:
1611 unique CDR3
13 unique J



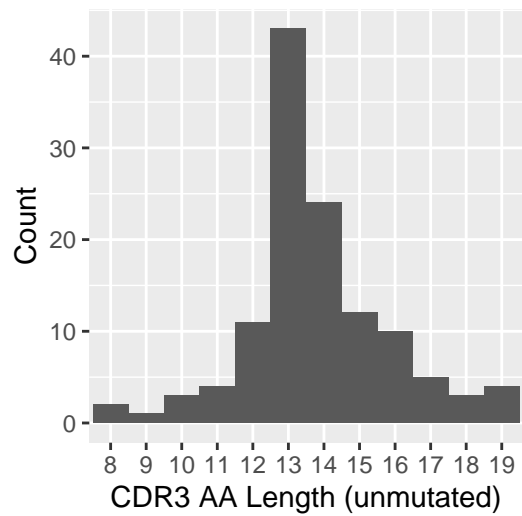
TRBV7-1*ap01_G291C_T29



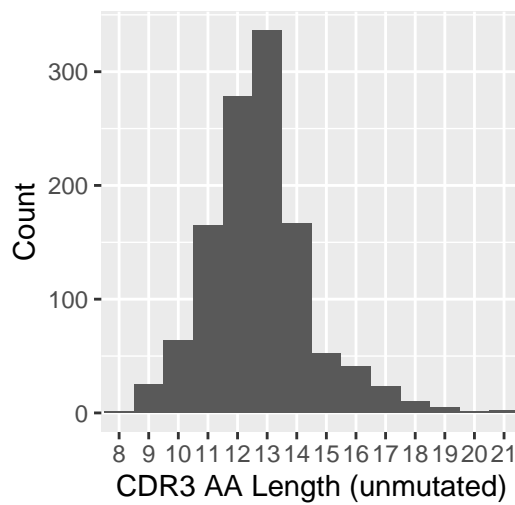
TRBV7-7*ap01_C315T



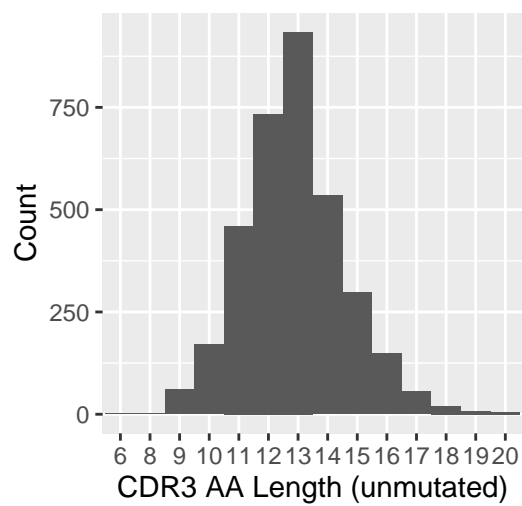
TRBV7-1*ap01_G291C_T29

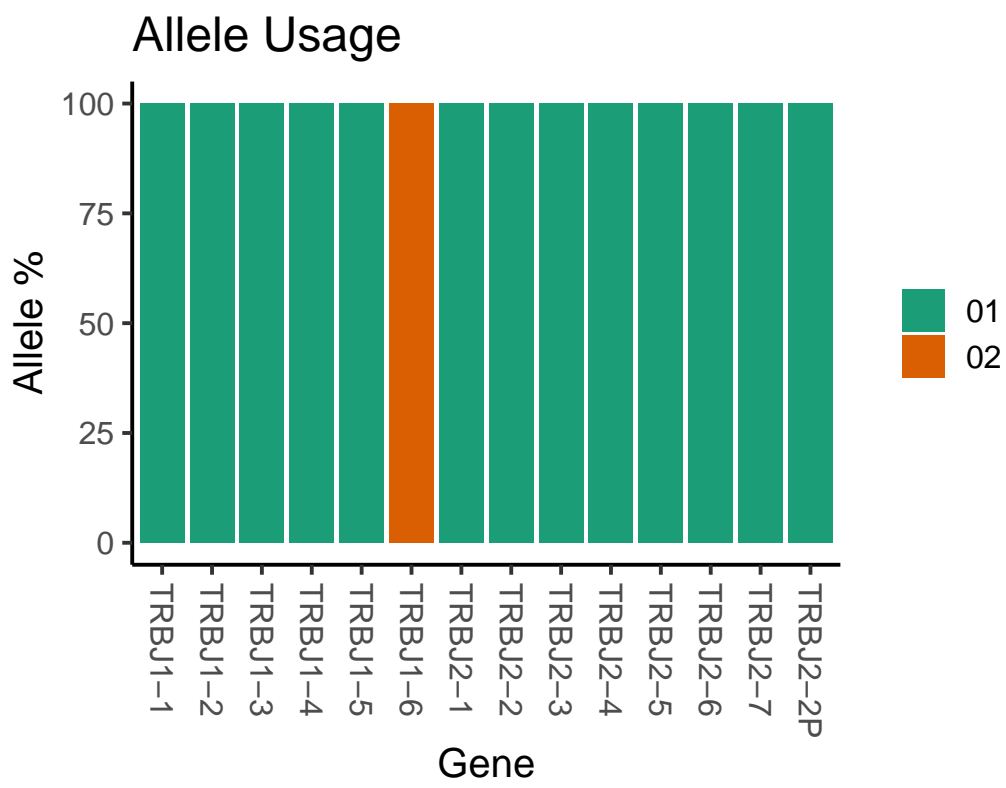


TRBV7-8*ap03_C297A



TRBV7-2*ap01_G297A





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