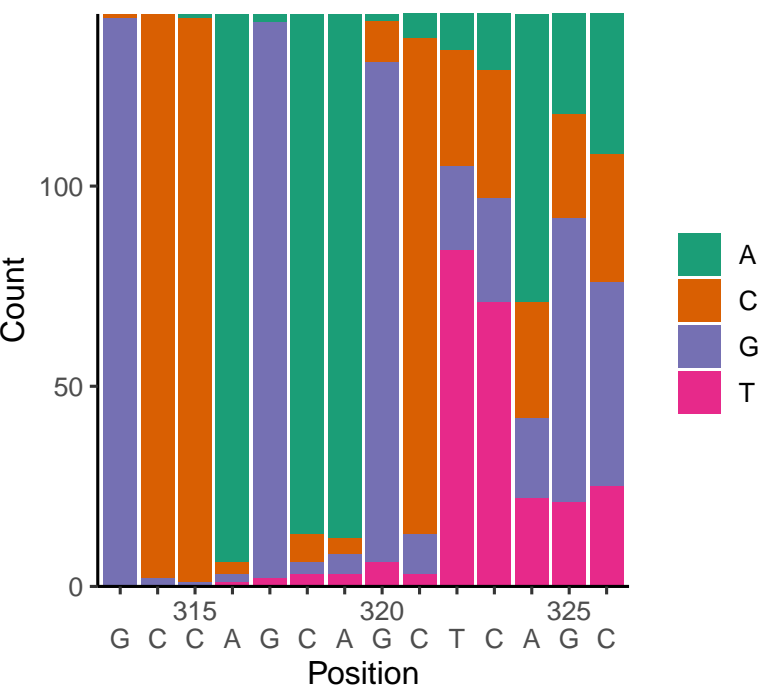
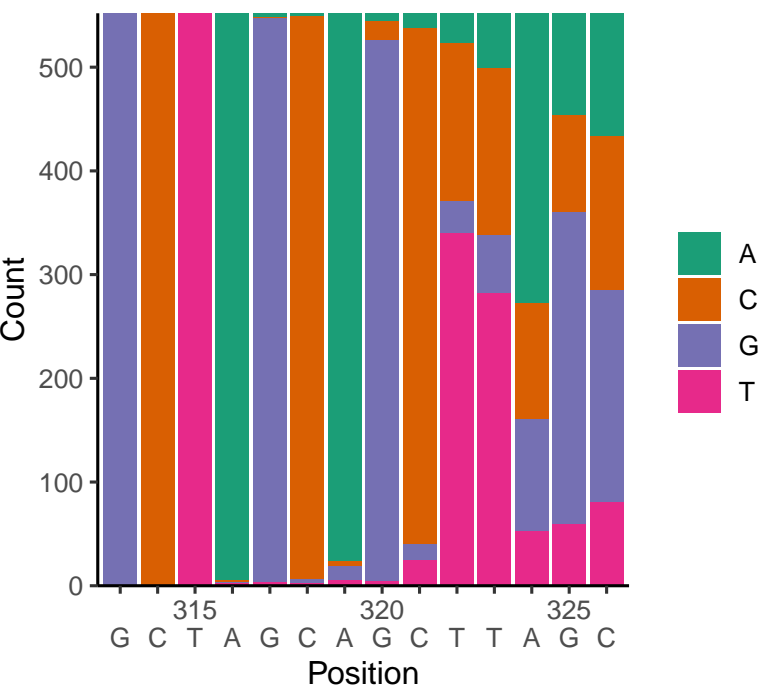


Gene TRBV7-1*ap01_G291C_T296C



Gene TRBV7-7*ap01_C315T



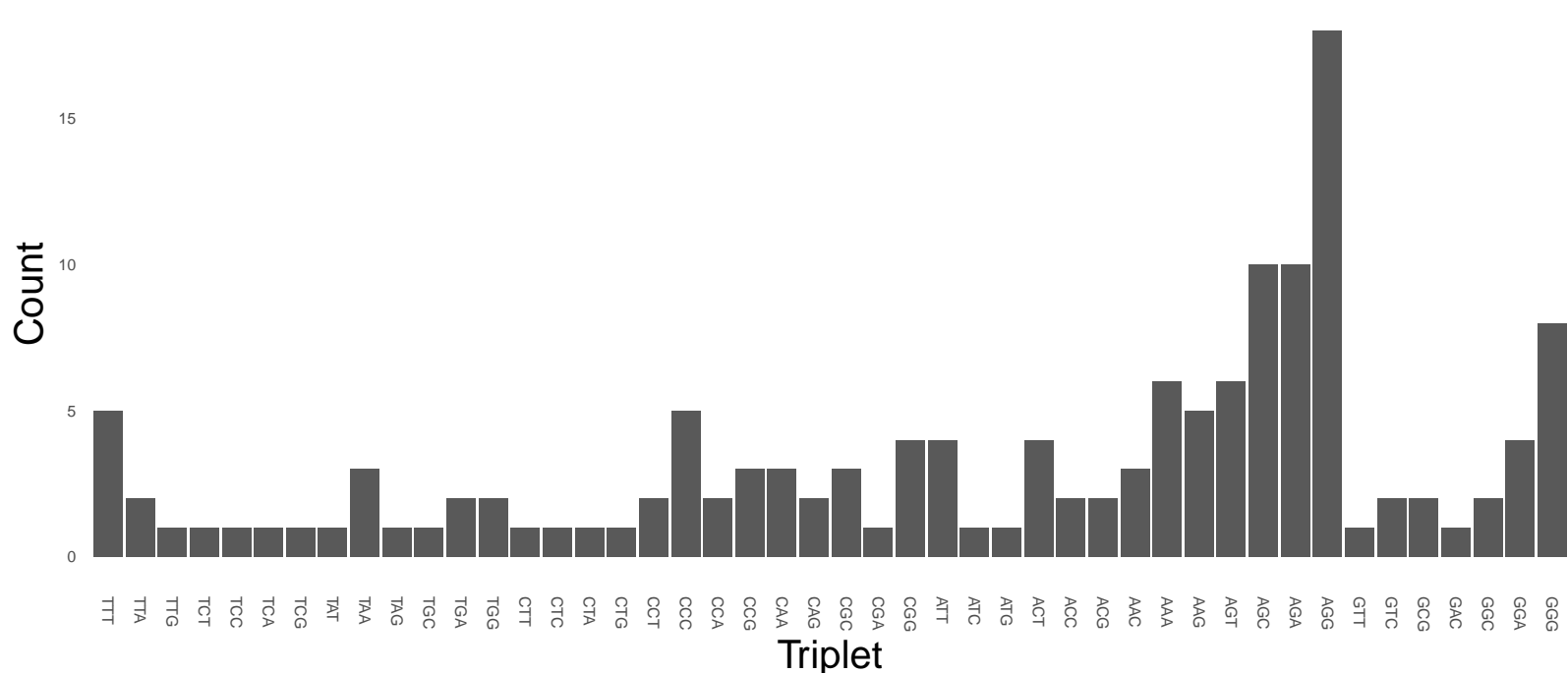
Gene TRBV7-1*ap01_G291C_T296C



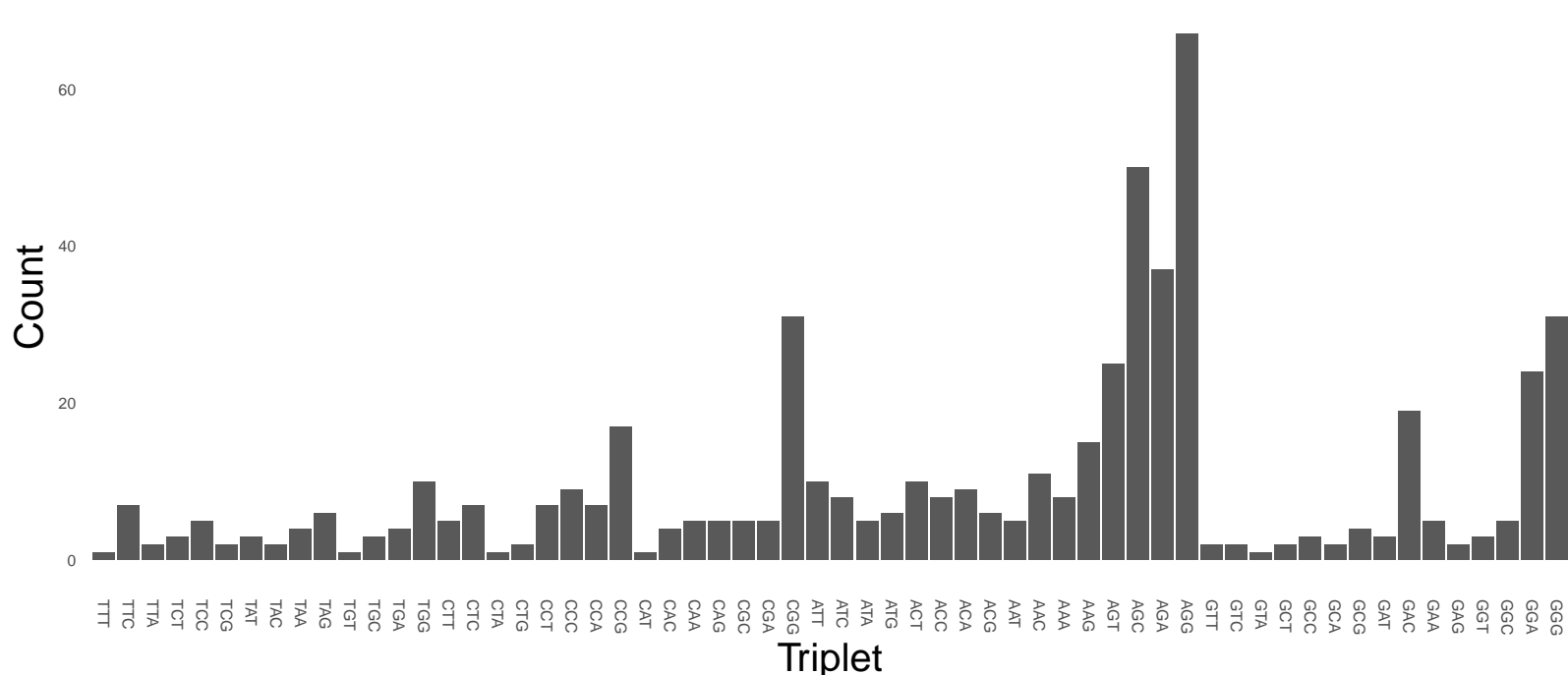
Gene TRBV7-7*ap01_C315T



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

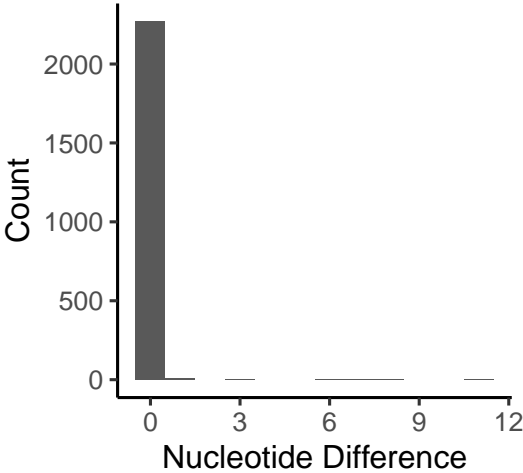


TRBV7-7*ap01_C315T- Final 3 nucleotides as a triplet



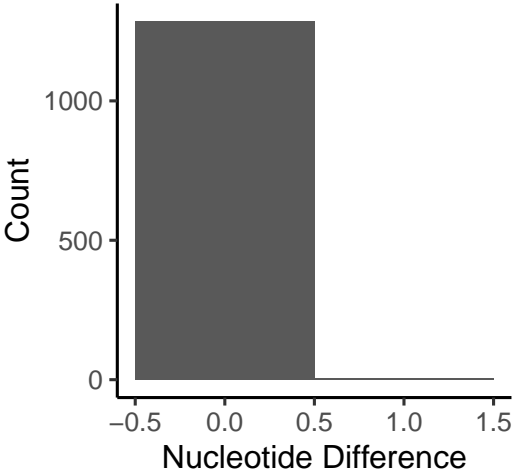
TRBV10-1*ap01

2289 sequences assigned
2270 (99.2%) exact matches, in which:
2250 unique CDR3
13 unique J



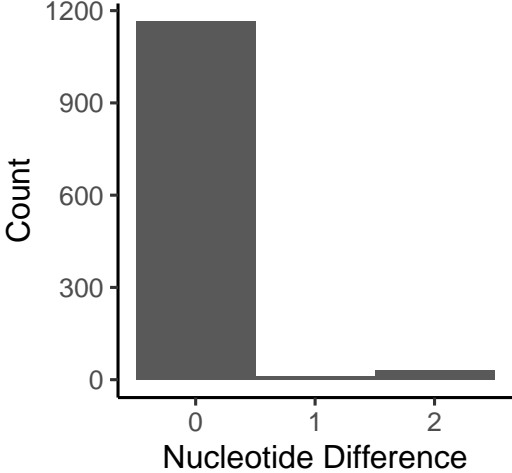
TRBV10-2*ap01

1290 sequences assigned
1285 (99.6%) exact matches, in which:
1278 unique CDR3
13 unique J



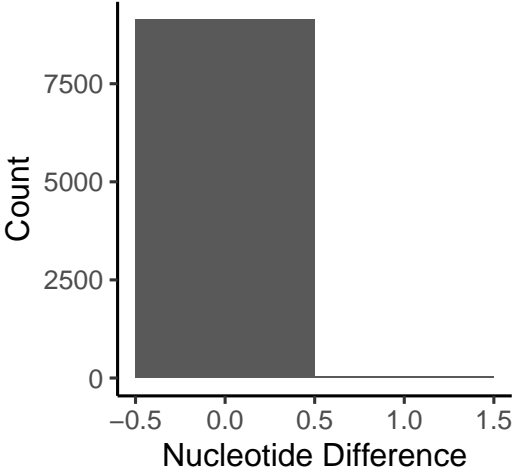
TRBV13*ap01

1207 sequences assigned
1165 (96.5%) exact matches, in which:
1153 unique CDR3
13 unique J



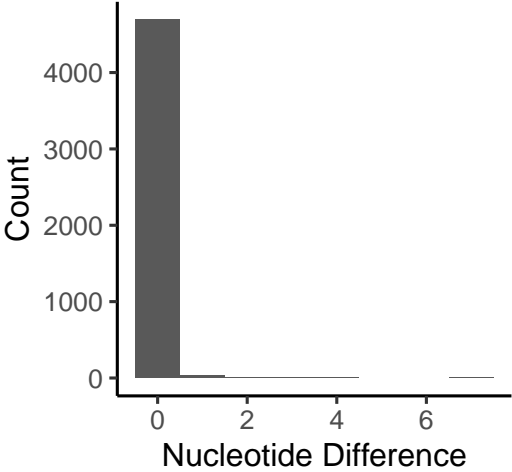
TRBV20-1*ap01

9173 sequences assigned
9131 (99.5%) exact matches, in which:
9088 unique CDR3
13 unique J



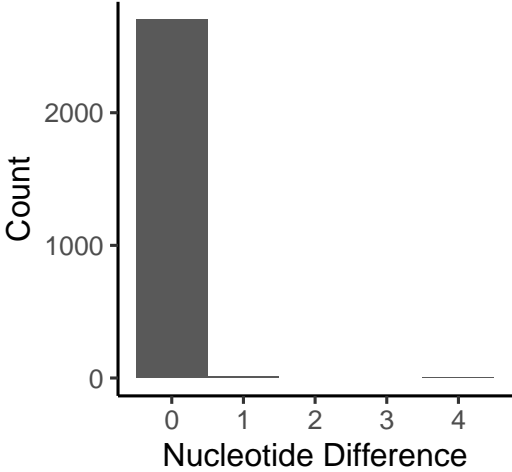
TRBV10-3*ap01

4731 sequences assigned
4692 (99.2%) exact matches, in which:
4656 unique CDR3
13 unique J



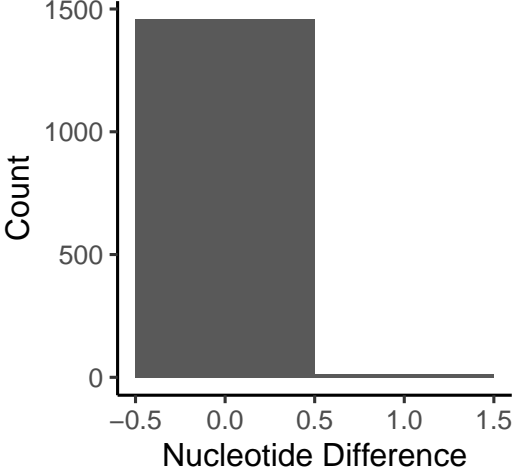
TRBV14*ap01

2713 sequences assigned
2701 (99.6%) exact matches, in which:
2682 unique CDR3
13 unique J



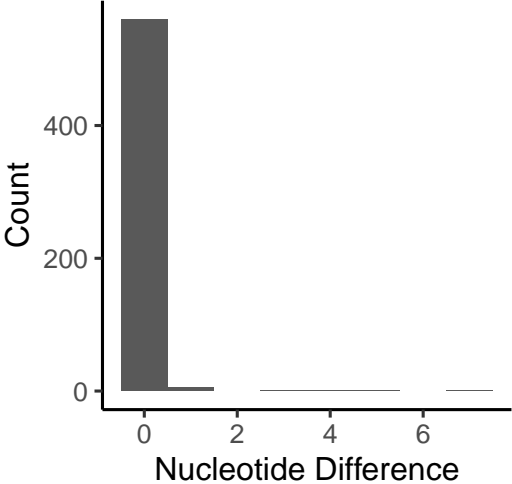
TRBV20-1*ap02

1472 sequences assigned
1459 (99.1%) exact matches, in which:
1449 unique CDR3
13 unique J



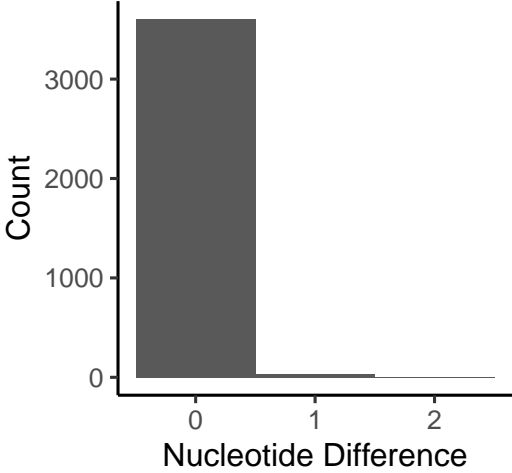
TRBV1*ap01

570 sequences assigned
560 (98.2%) exact matches, in which:
553 unique CDR3
13 unique J



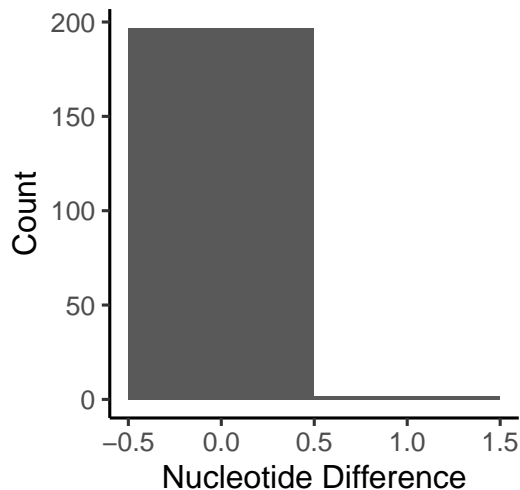
TRBV15*ap02

3638 sequences assigned
3604 (99.1%) exact matches, in which:
3572 unique CDR3
13 unique J



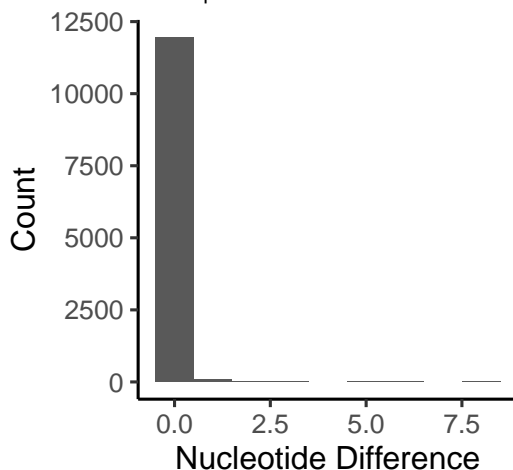
TRBV16*ap01

199 sequences assigned
197 (99%) exact matches, in which:
197 unique CDR3
13 unique J



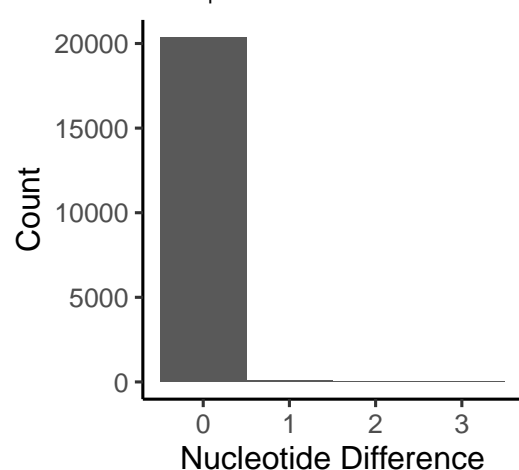
TRBV19*ap01

12046 sequences assigned
11961 (99.3%) exact matches, in which:
11928 unique CDR3
13 unique J



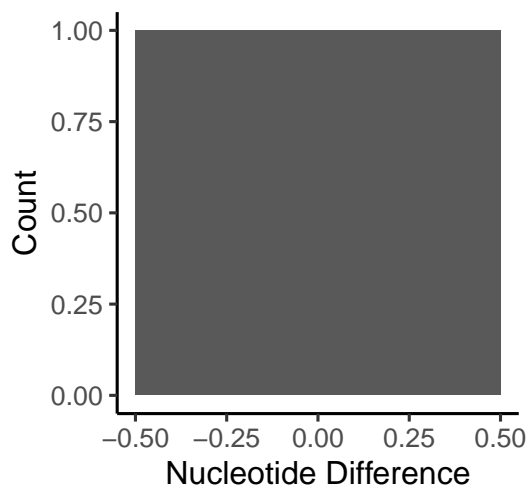
TRBV28*ap01

20483 sequences assigned
20376 (99.5%) exact matches, in which:
20272 unique CDR3
13 unique J



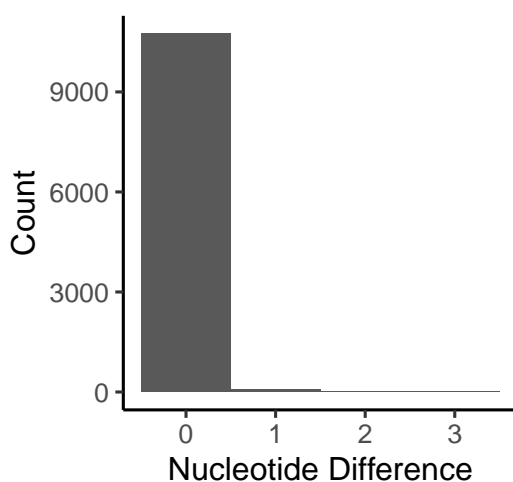
TRBV17*ap01

1 sequences assigned
1 (100%) exact matches, in which:
1 unique CDR3
1 unique J



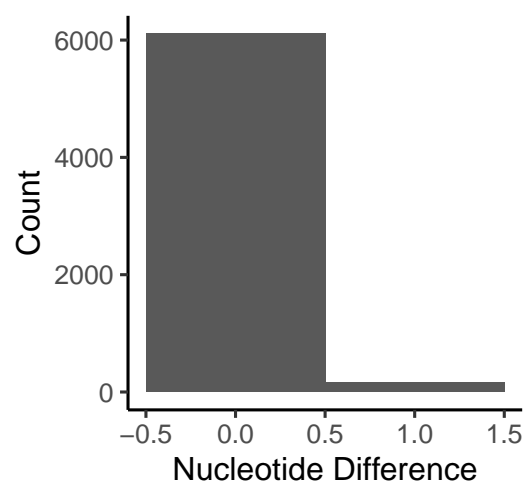
TRBV2*ap01

10815 sequences assigned
10745 (99.4%) exact matches, in which:
10656 unique CDR3
13 unique J



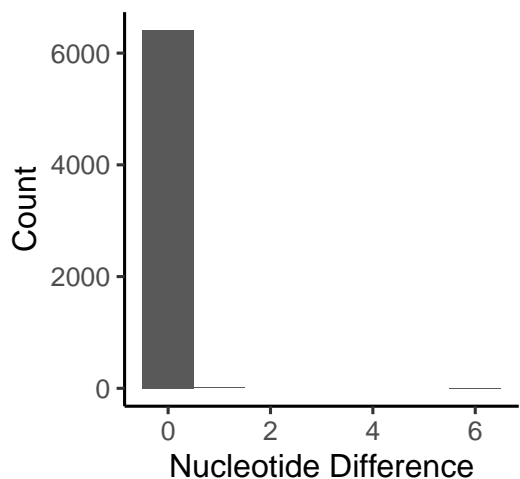
TRBV30*ap01

6274 sequences assigned
6108 (97.4%) exact matches, in which:
6007 unique CDR3
13 unique J



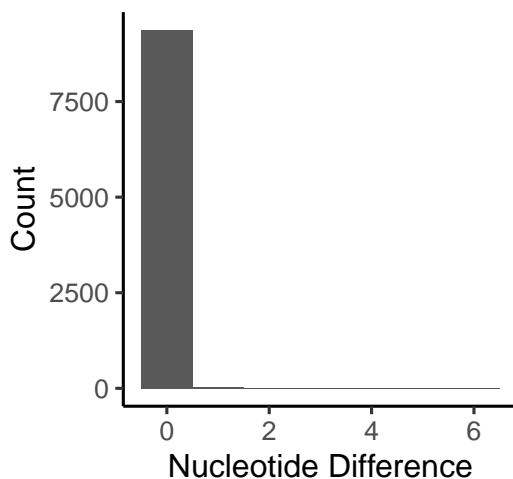
TRBV18*ap01

6429 sequences assigned
6413 (99.8%) exact matches, in which:
6383 unique CDR3
13 unique J



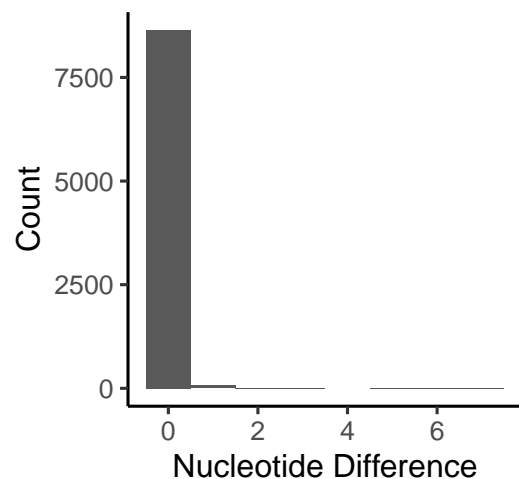
TRBV27*ap01

9427 sequences assigned
9371 (99.4%) exact matches, in which:
9304 unique CDR3
13 unique J



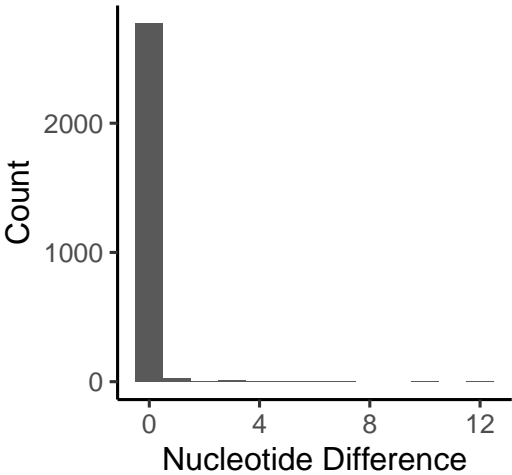
TRBV9*ap01

8718 sequences assigned
8643 (99.1%) exact matches, in which:
8609 unique CDR3
13 unique J



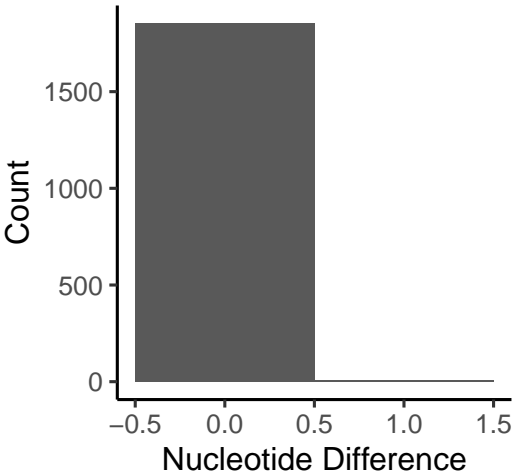
TRBV21-1*ap01

2816 sequences assigned
2772 (98.4%) exact matches, in which:
2762 unique CDR3
13 unique J



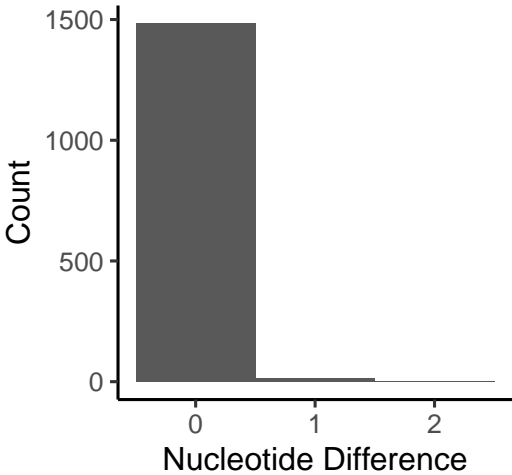
TRBV11-3*ap01

1863 sequences assigned
1853 (99.5%) exact matches, in which:
1850 unique CDR3
13 unique J



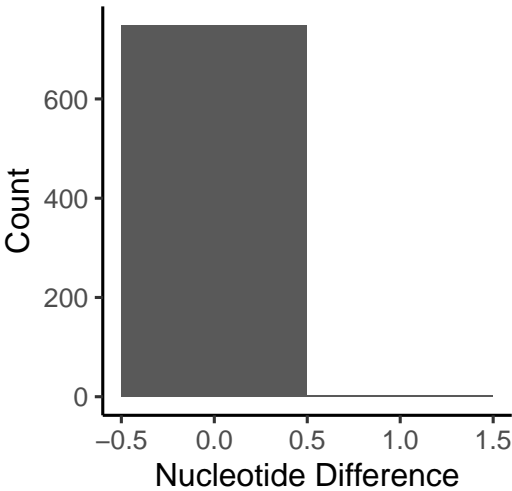
TRBV12-5*ap01

1501 sequences assigned
1484 (98.9%) exact matches, in which:
1473 unique CDR3
13 unique J



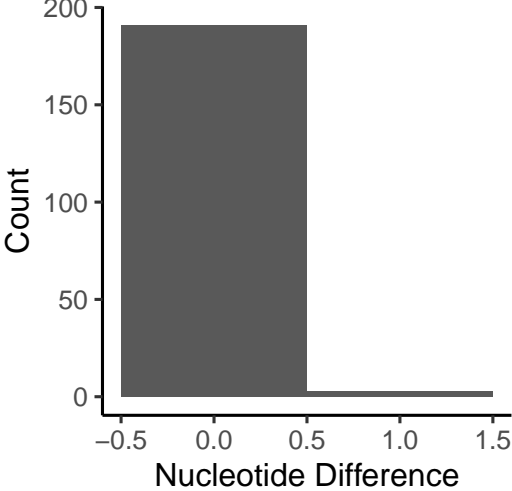
TRBV11-1*ap01

752 sequences assigned
749 (99.6%) exact matches, in which:
745 unique CDR3
13 unique J



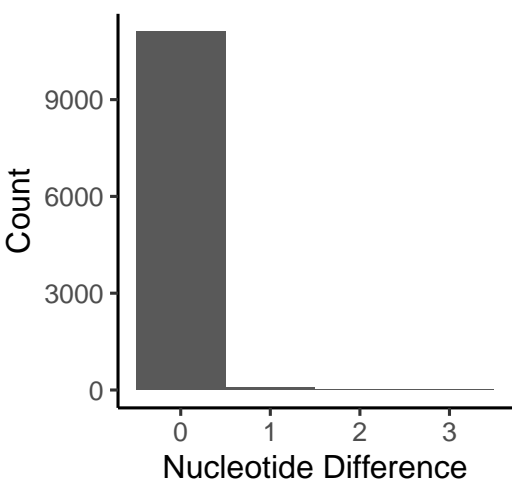
TRBV12-1*ap01

194 sequences assigned
191 (98.5%) exact matches, in which:
191 unique CDR3
13 unique J



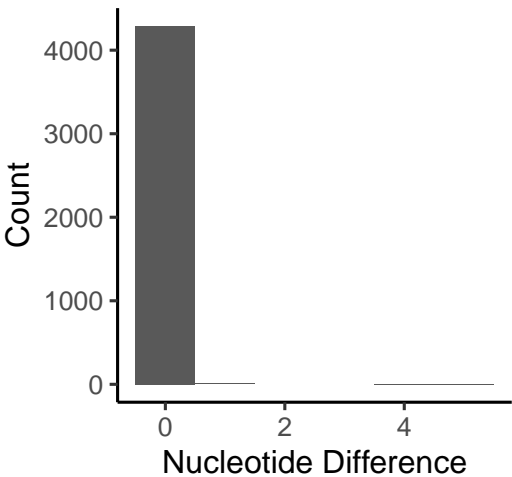
TRBV12-34*ap01

11194 sequences assigned
11104 (99.2%) exact matches, in which:
11023 unique CDR3
13 unique J



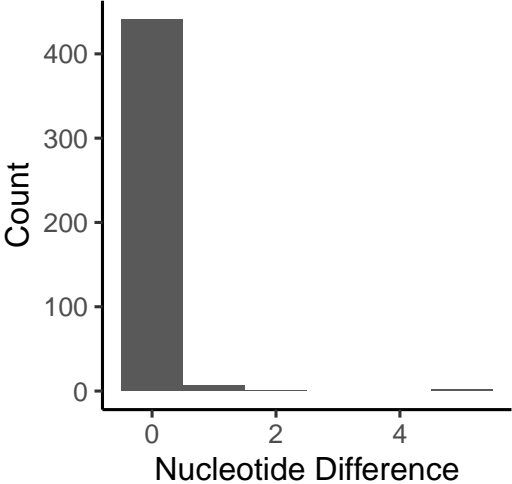
TRBV11-2*ap01

4302 sequences assigned
4289 (99.7%) exact matches, in which:
4278 unique CDR3
13 unique J



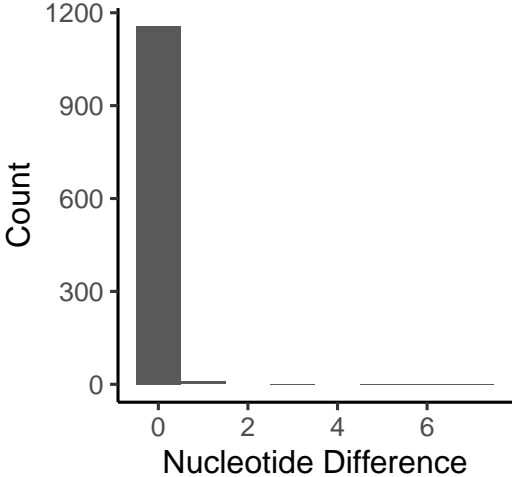
TRBV12-2*ap01

451 sequences assigned
441 (97.8%) exact matches, in which:
438 unique CDR3
13 unique J



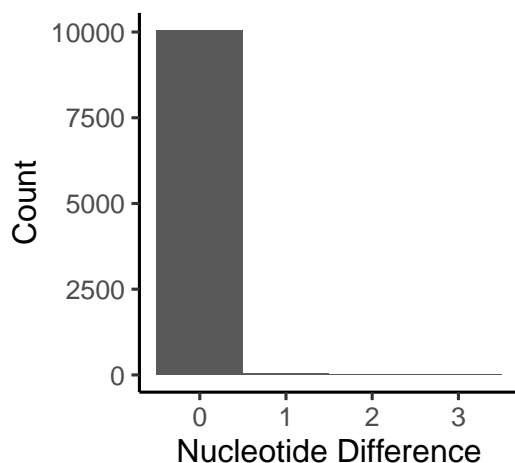
TRBV23-1*ap01

1170 sequences assigned
1157 (98.9%) exact matches, in which:
1149 unique CDR3
13 unique J



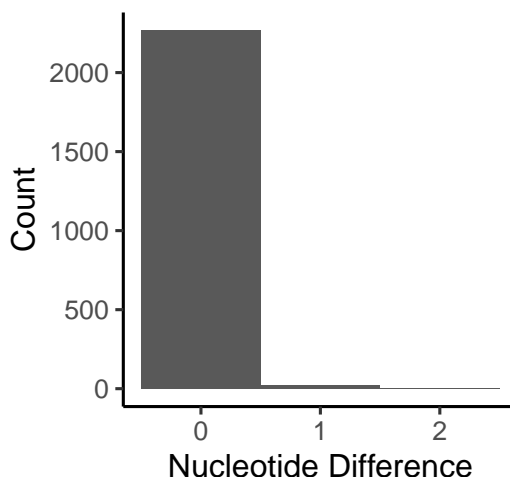
TRBV3-12*ap01

10092 sequences assigned
10055 (99.6%) exact matches, in which:
10023 unique CDR3
13 unique J



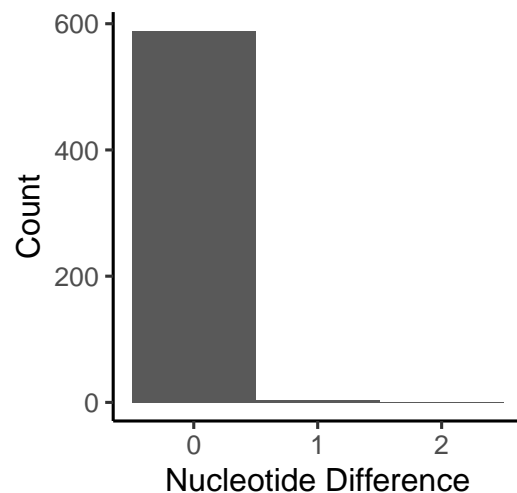
TRBV4-2*ap01

2293 sequences assigned
2267 (98.9%) exact matches, in which:
2240 unique CDR3
13 unique J



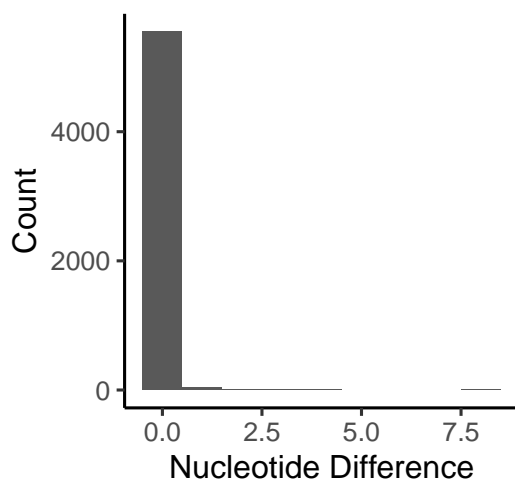
TRBV5-3*ap01

594 sequences assigned
589 (99.2%) exact matches, in which:
588 unique CDR3
13 unique J



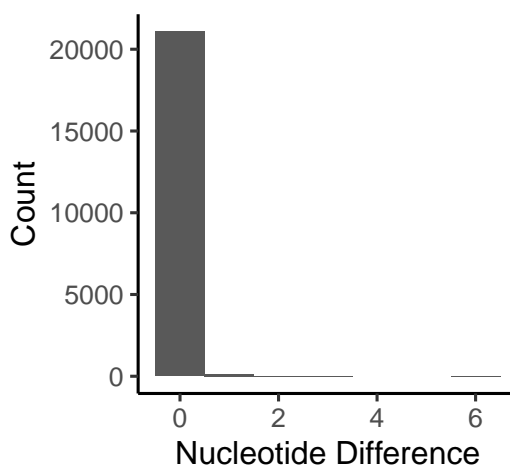
TRBV4-1*ap01

5591 sequences assigned
5548 (99.2%) exact matches, in which:
5494 unique CDR3
13 unique J



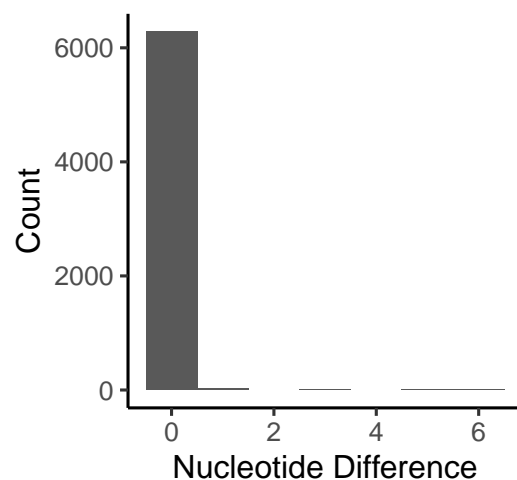
TRBV5-1*ap01

21223 sequences assigned
21087 (99.4%) exact matches, in which:
20907 unique CDR3
13 unique J



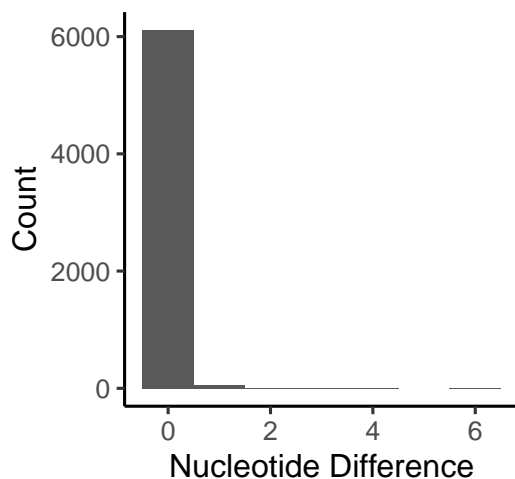
TRBV5-4*ap01

6309 sequences assigned
6282 (99.6%) exact matches, in which:
6227 unique CDR3
13 unique J



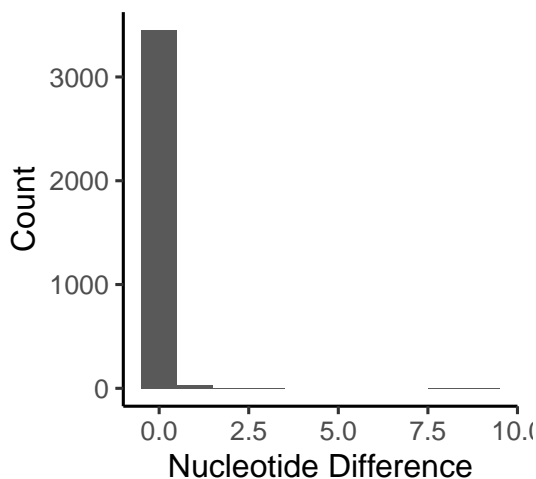
TRBV24-1*ap01

6180 sequences assigned
6112 (98.9%) exact matches, in which:
6052 unique CDR3
13 unique J



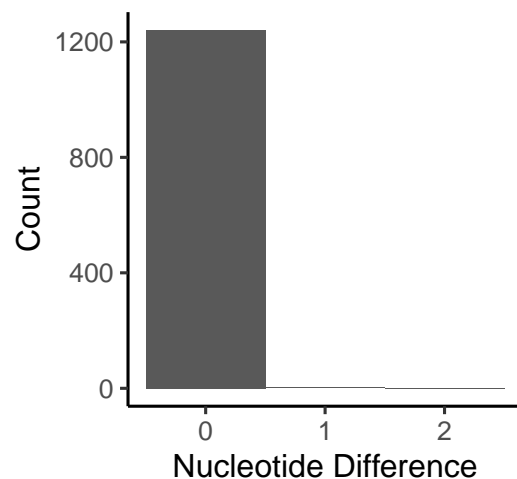
TRBV25-1*ap01

3491 sequences assigned
3452 (98.9%) exact matches, in which:
3397 unique CDR3
13 unique J



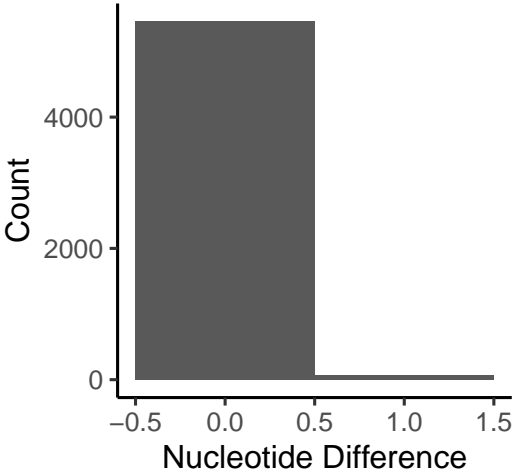
TRBV5-5*ap01

1245 sequences assigned
1241 (99.7%) exact matches, in which:
1240 unique CDR3
13 unique J



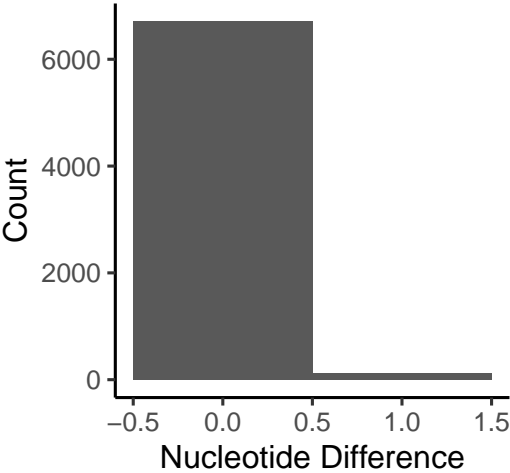
TRBV5-6*ap01

5524 sequences assigned
5458 (98.8%) exact matches, in which:
5380 unique CDR3
13 unique J



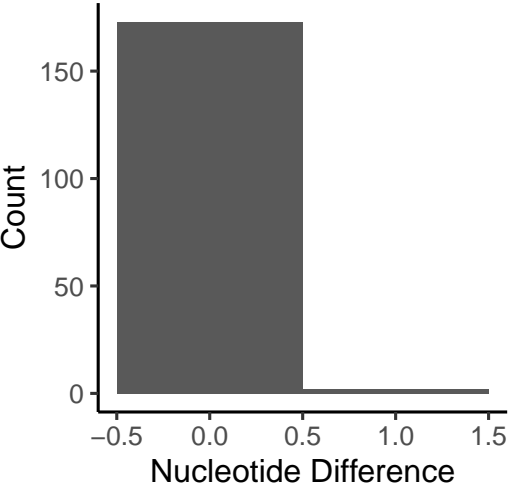
TRBV6-1*ap01

6833 sequences assigned
6709 (98.2%) exact matches, in which:
6646 unique CDR3
13 unique J



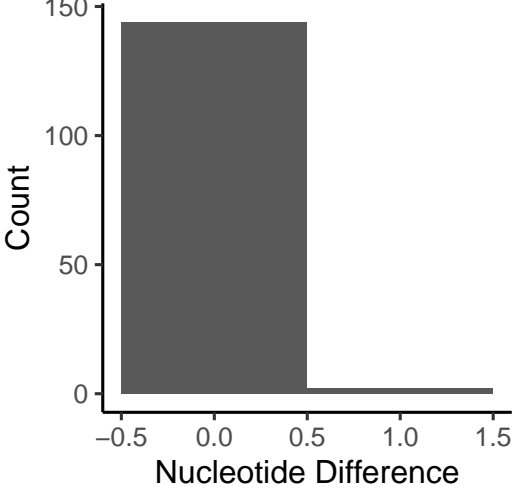
TRBV6-8*ap01

175 sequences assigned
173 (98.9%) exact matches, in which:
171 unique CDR3
13 unique J



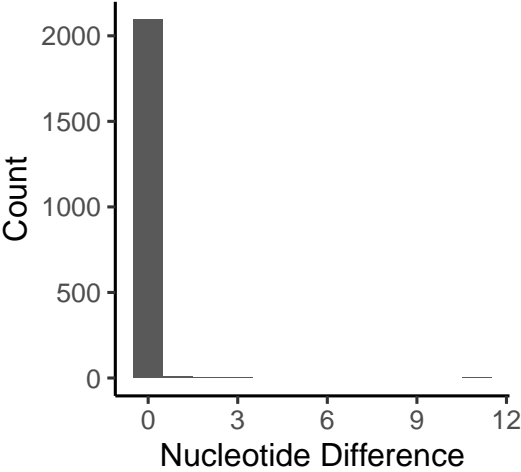
TRBV5-7*ap01

146 sequences assigned
144 (98.6%) exact matches, in which:
135 unique CDR3
12 unique J



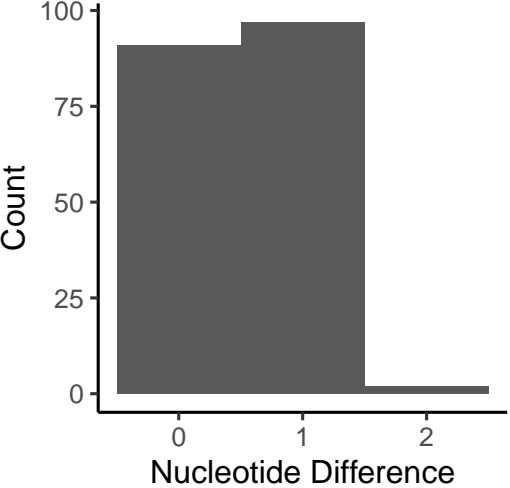
TRBV6-4*ap01

2104 sequences assigned
2094 (99.5%) exact matches, in which:
2081 unique CDR3
13 unique J



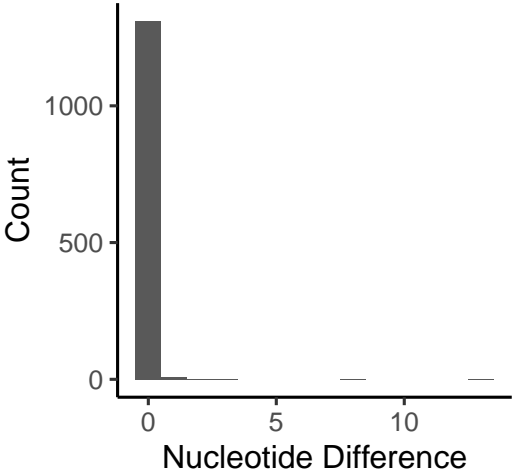
TRBV6-9*ap01

190 sequences assigned
91 (47.9%) exact matches, in which:
91 unique CDR3
11 unique J



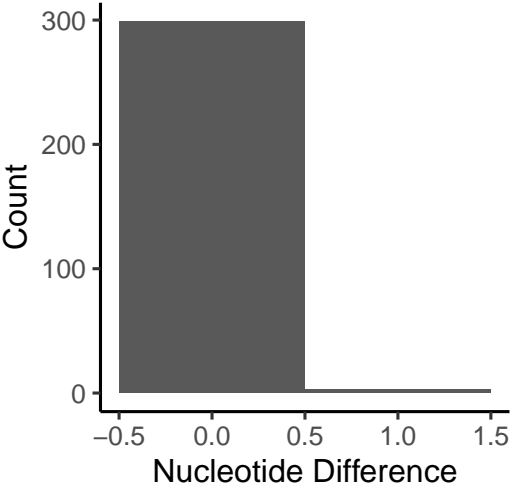
TRBV5-8*ap01

1323 sequences assigned
1310 (99%) exact matches, in which:
1301 unique CDR3
13 unique J



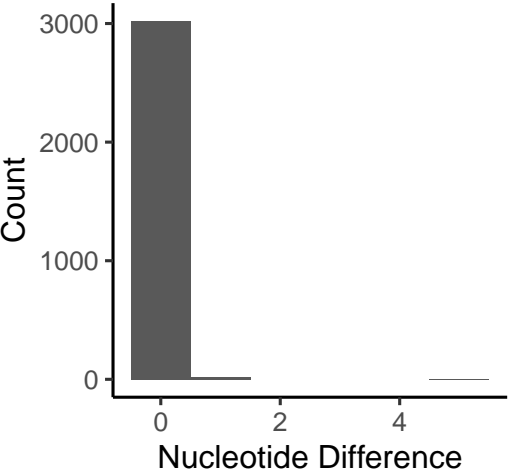
TRBV6-7*ap01

302 sequences assigned
299 (99%) exact matches, in which:
295 unique CDR3
13 unique J



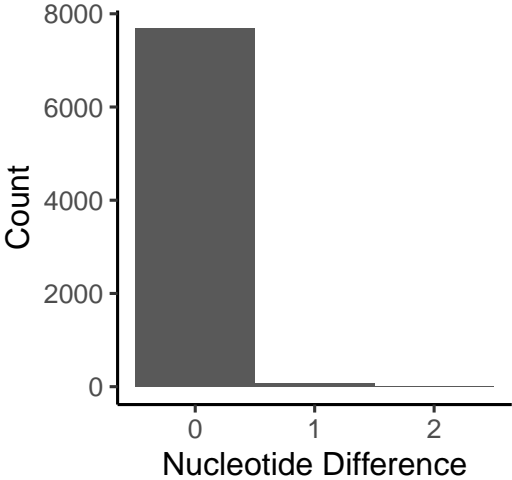
TRBV6-23*ap01

3042 sequences assigned
3021 (99.3%) exact matches, in which:
2976 unique CDR3
13 unique J



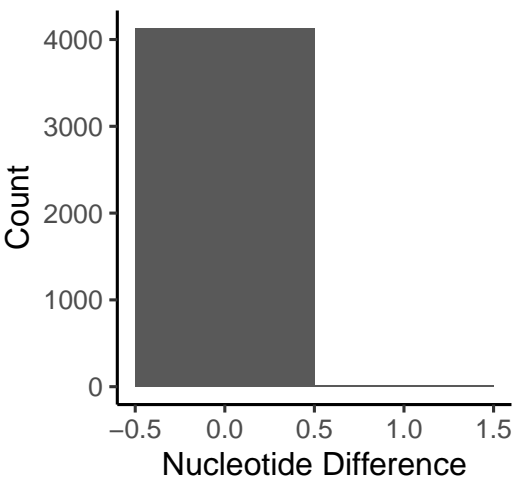
TRBV6-56*ap01

7759 sequences assigned
7686 (99.1%) exact matches, in which:
7567 unique CDR3
13 unique J



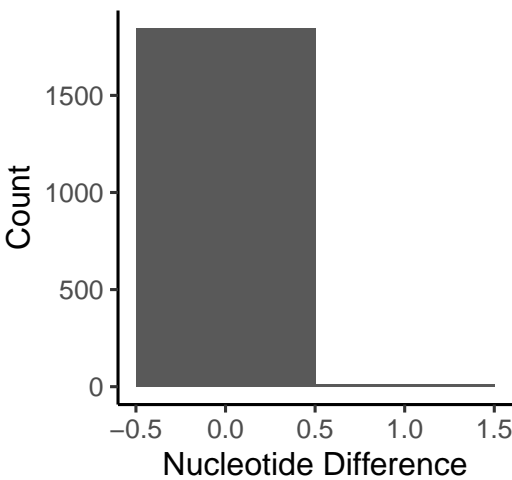
TRBV7-2*ap01

4143 sequences assigned
4128 (99.6%) exact matches, in which:
4103 unique CDR3
13 unique J



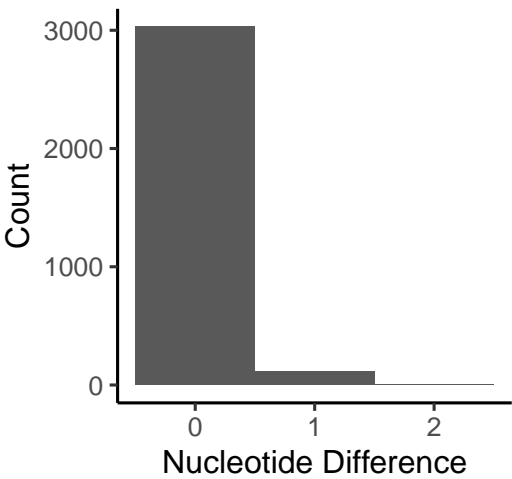
TRBV7-6*ap01

1857 sequences assigned
1845 (99.4%) exact matches, in which:
1834 unique CDR3
13 unique J



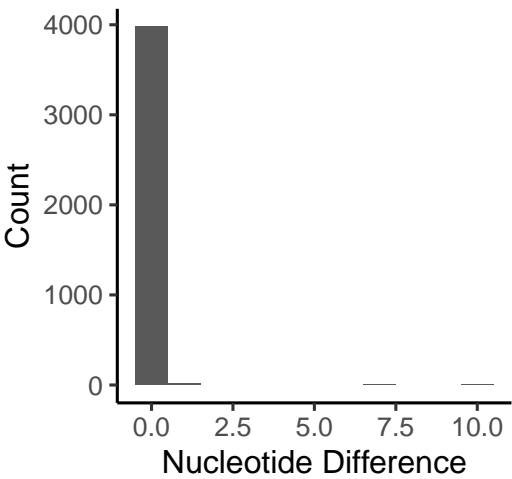
TRBV6-56*ap02

3145 sequences assigned
3030 (96.3%) exact matches, in which:
2995 unique CDR3
13 unique J



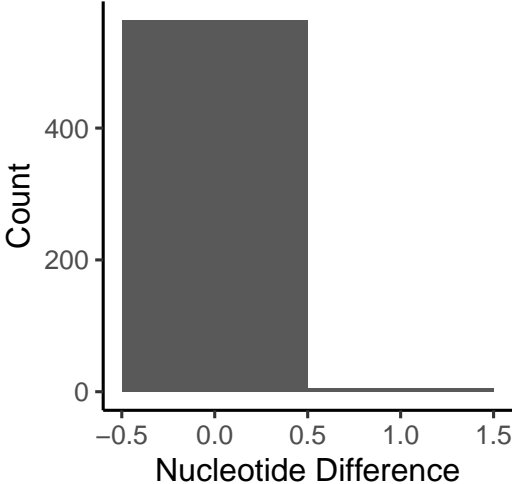
TRBV7-3*ap01

3999 sequences assigned
3978 (99.5%) exact matches, in which:
3959 unique CDR3
13 unique J



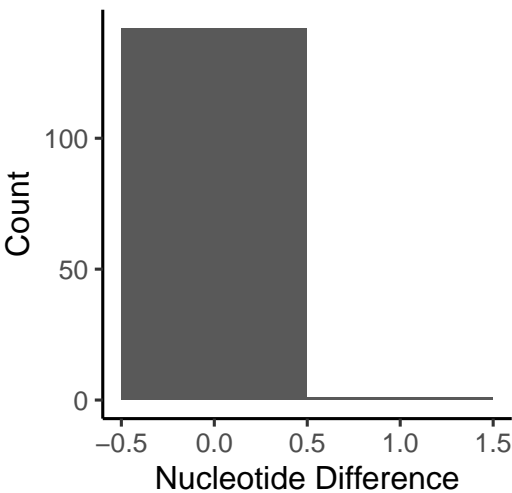
TRBV7-7*ap01

570 sequences assigned
564 (98.9%) exact matches, in which:
561 unique CDR3
13 unique J



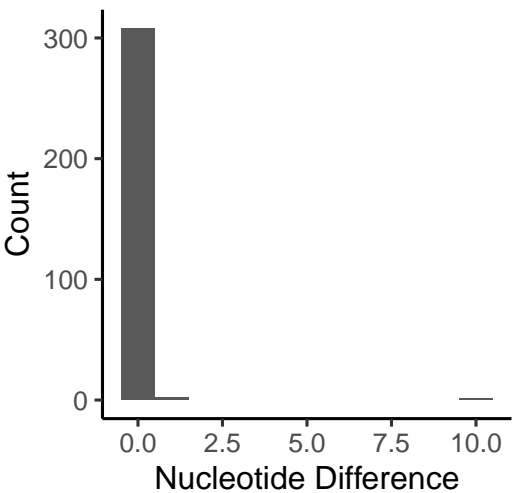
TRBV7-1*ap01_G291C_

143 sequences assigned
142 (99.3%) exact matches, in which:
140 unique CDR3
12 unique J



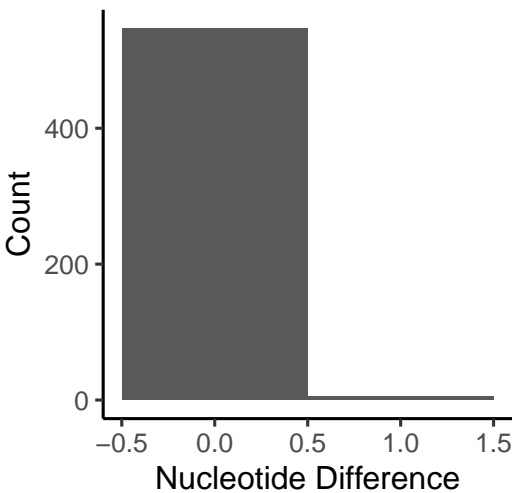
TRBV7-4*ap01

311 sequences assigned
308 (99%) exact matches, in which:
305 unique CDR3
13 unique J



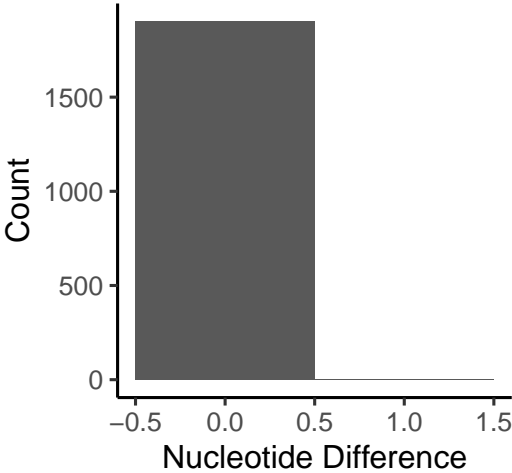
TRBV7-7*ap01_C315T

552 sequences assigned
547 (99.1%) exact matches, in which:
545 unique CDR3
13 unique J



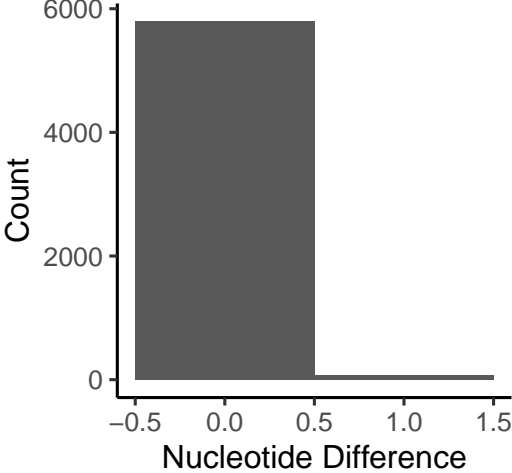
TRBV7-8*ap01

1905 sequences assigned
1902 (99.8%) exact matches, in which:
1891 unique CDR3
13 unique J



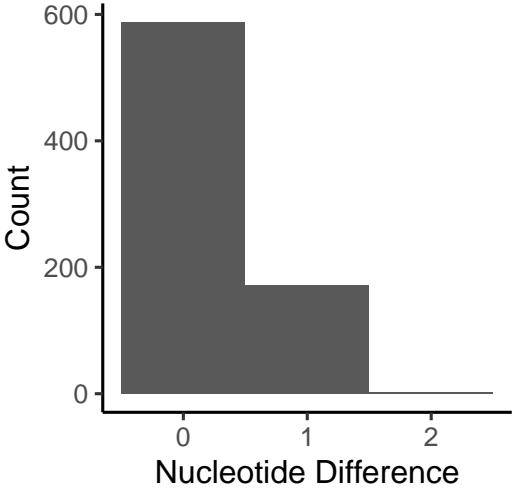
TRBV29-1*ap01

5870 sequences assigned
5795 (98.7%) exact matches, in which:
5695 unique CDR3
13 unique J



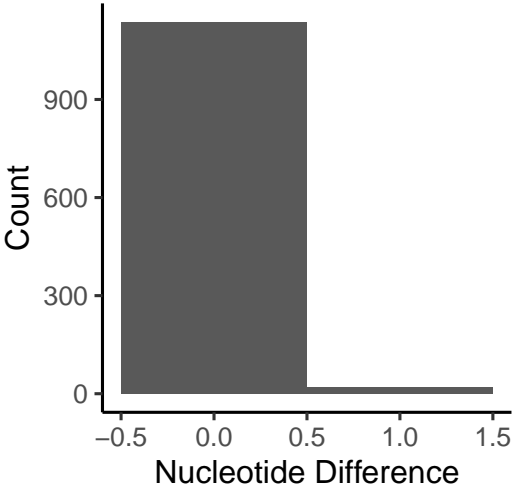
TRBV7-8*ap03

761 sequences assigned
588 (77.3%) exact matches, in which:
583 unique CDR3
13 unique J



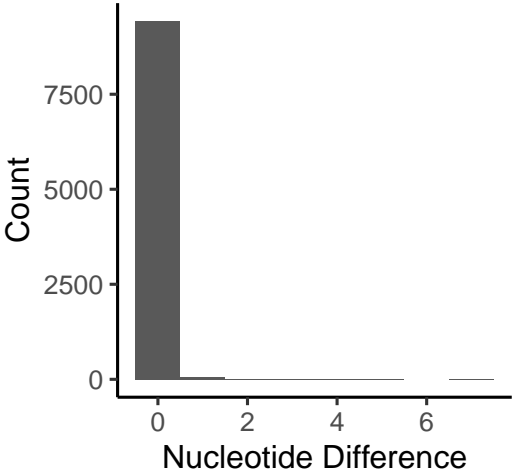
TRBV29-1*ap02

1157 sequences assigned
1137 (98.3%) exact matches, in which:
1121 unique CDR3
13 unique J

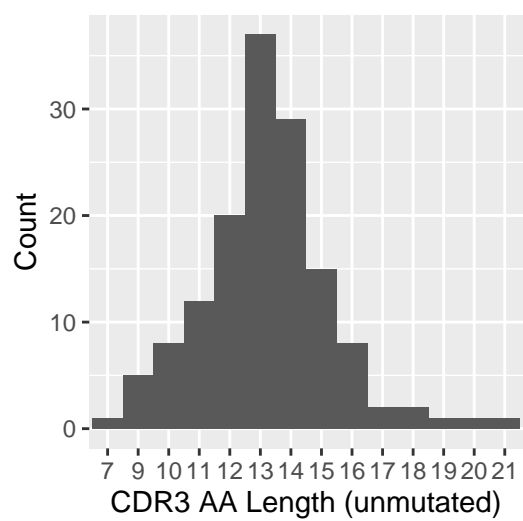


TRBV7-9*ap01

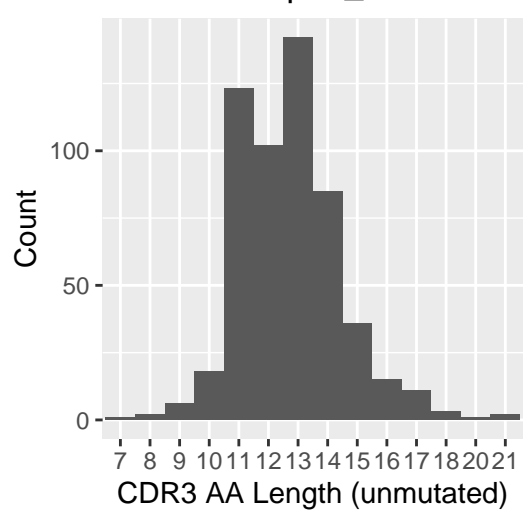
9497 sequences assigned
9426 (99.3%) exact matches, in which:
9363 unique CDR3
13 unique J



TRBV7-1*ap01_G291C_T296C



TRBV7-7*ap01_C315T





[illegible]