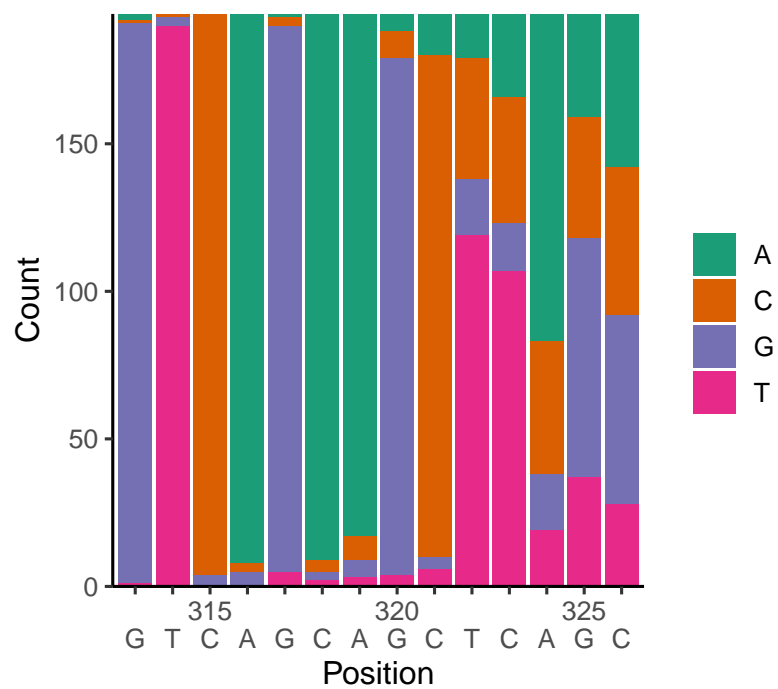


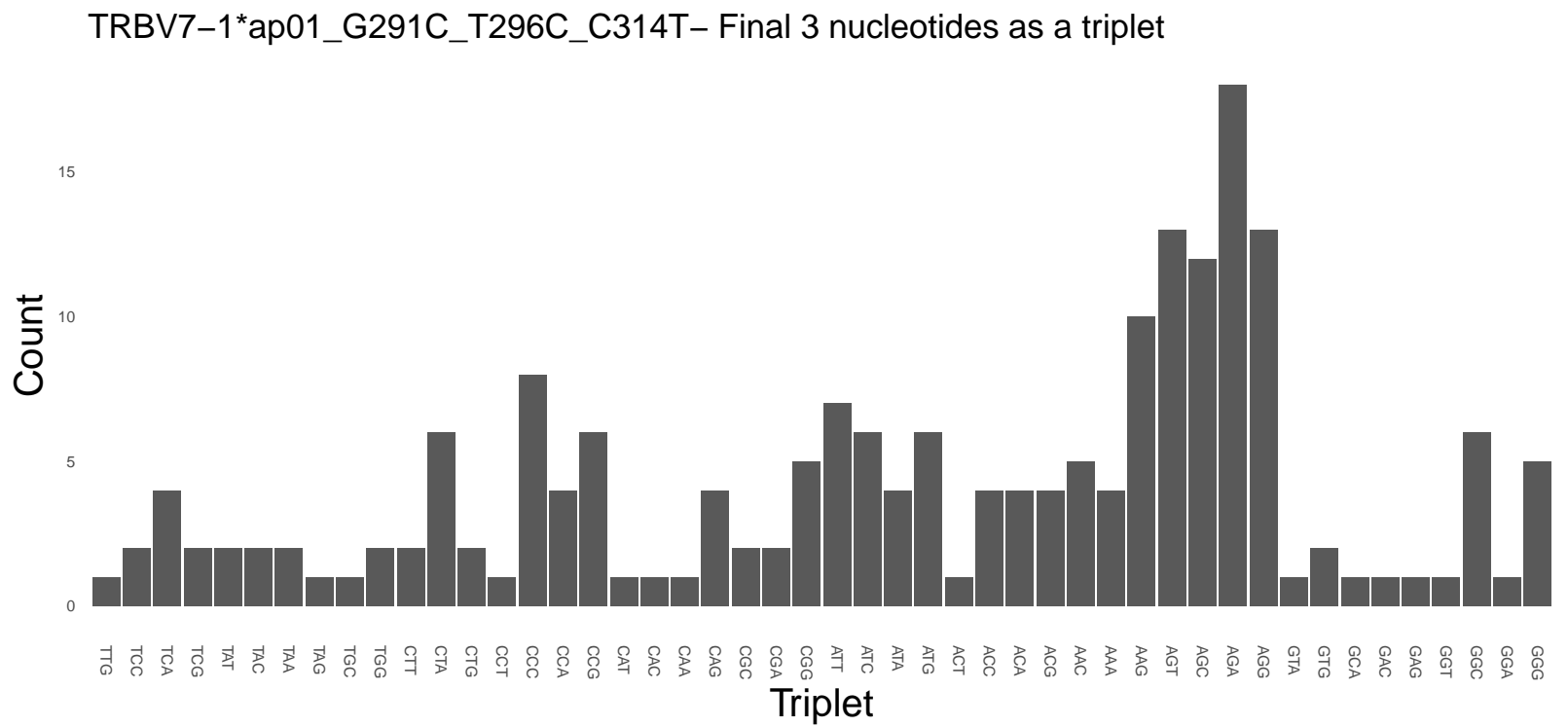
G T C A G C A G C T C A G C
Position



Gene TRBV7-1*ap01_G291C_T296C_C314T

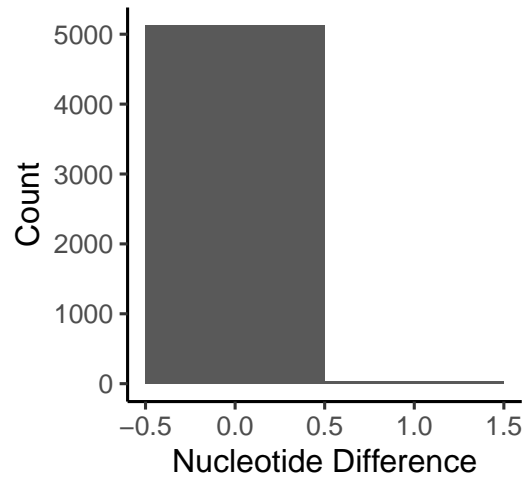


TRBV7-1*ap01_G291C_T296C_C314T- Final 3 nucleotides as a triplet



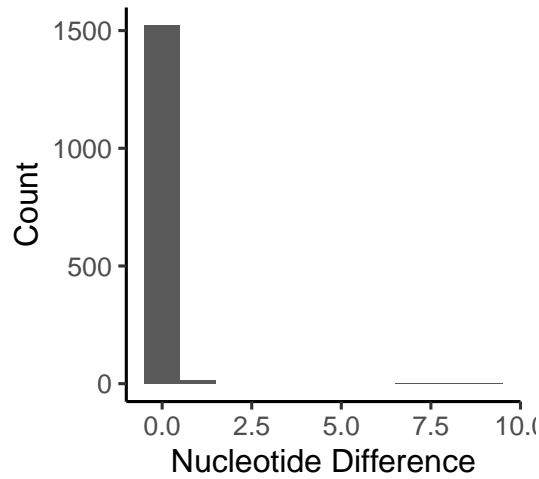
TRBV20-1*ap01

5159 sequences assigned
5126 (99.4%) exact matches, in which:
5092 unique CDR3
13 unique J



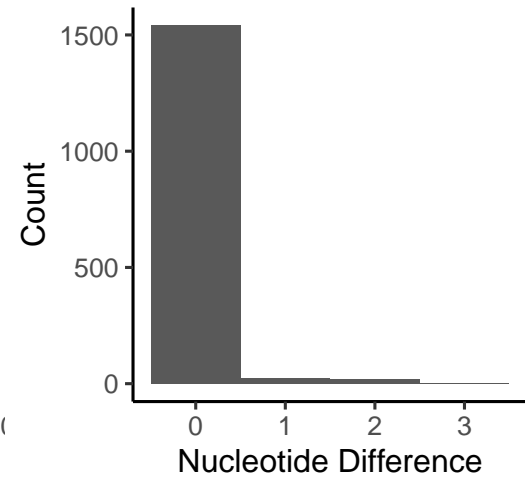
TRBV10-2*ap01

1540 sequences assigned
1522 (98.8%) exact matches, in which:
1504 unique CDR3
13 unique J



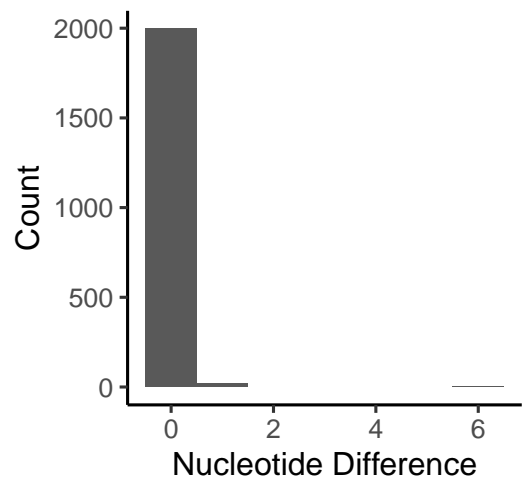
TRBV13*ap01

1585 sequences assigned
1541 (97.2%) exact matches, in which:
1503 unique CDR3
13 unique J



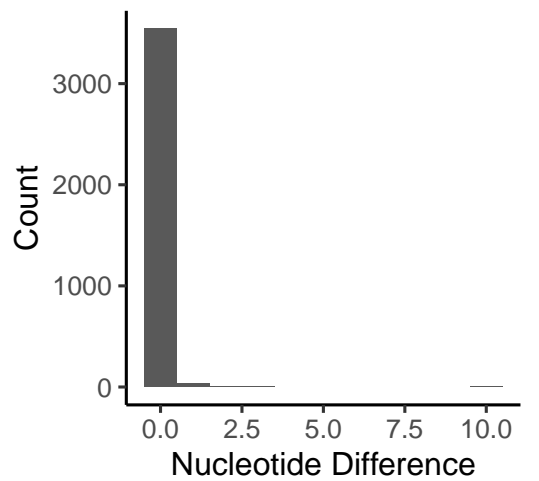
TRBV10-1*ap01

2016 sequences assigned
1997 (99.1%) exact matches, in which:
1972 unique CDR3
13 unique J



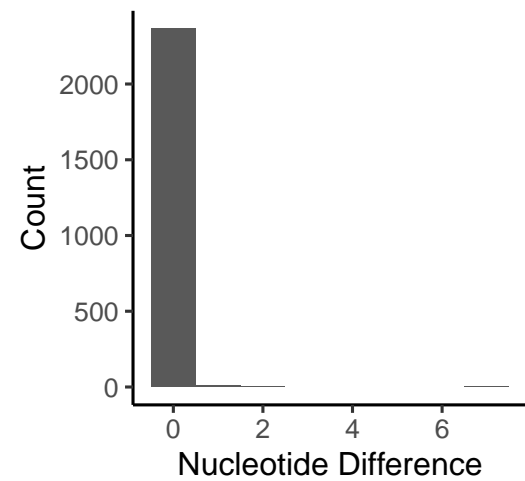
TRBV10-3*ap01

3578 sequences assigned
3543 (99%) exact matches, in which:
3492 unique CDR3
13 unique J



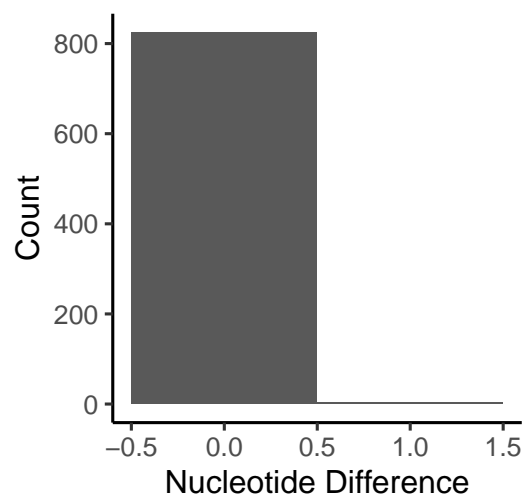
TRBV14*ap01

2380 sequences assigned
2365 (99.4%) exact matches, in which:
2341 unique CDR3
13 unique J



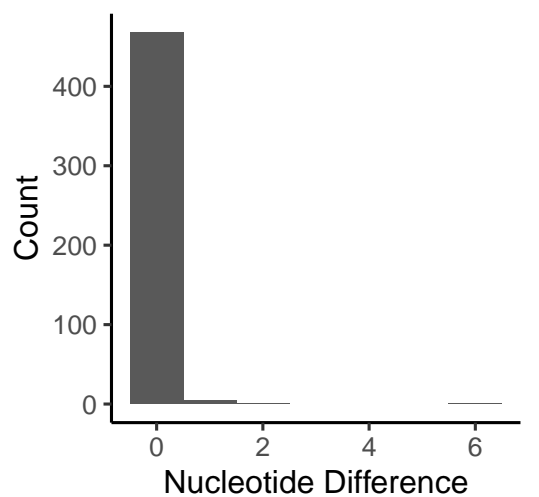
TRBV20-1*ap02

829 sequences assigned
825 (99.5%) exact matches, in which:
819 unique CDR3
13 unique J



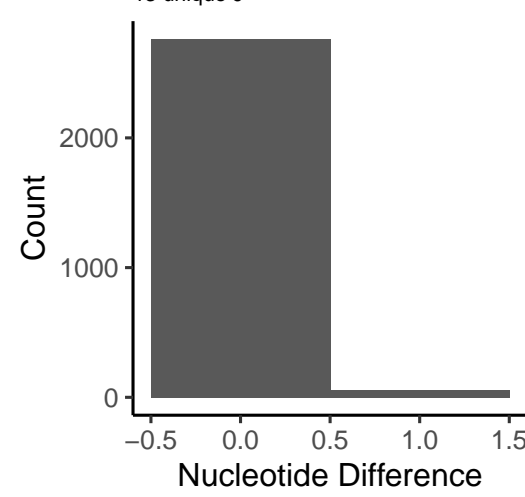
TRBV1*ap01

474 sequences assigned
468 (98.7%) exact matches, in which:
462 unique CDR3
13 unique J



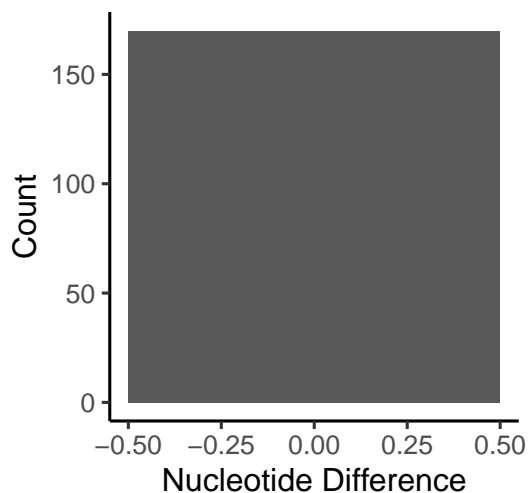
TRBV15*ap02

2820 sequences assigned
2762 (97.9%) exact matches, in which:
2716 unique CDR3
13 unique J



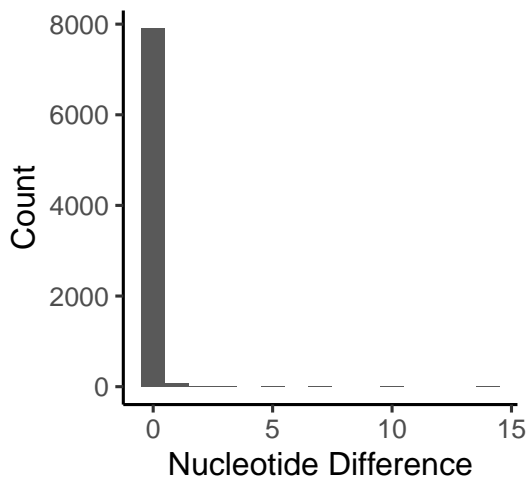
TRBV16*ap01

170 sequences assigned
170 (100%) exact matches, in which:
169 unique CDR3
13 unique J



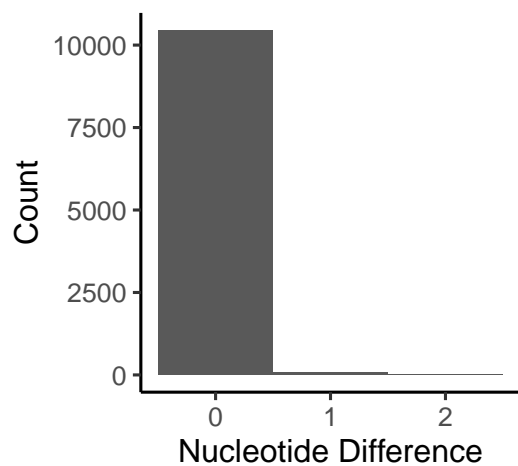
TRBV19*ap01

7983 sequences assigned
7906 (99%) exact matches, in which:
7868 unique CDR3
13 unique J



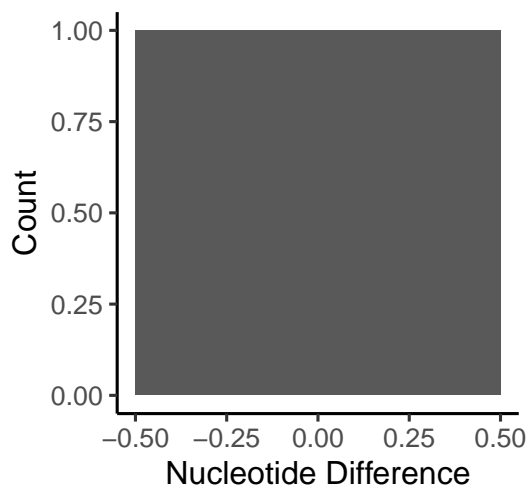
TRBV28*ap01

10537 sequences assigned
10453 (99.2%) exact matches, in which:
10371 unique CDR3
13 unique J



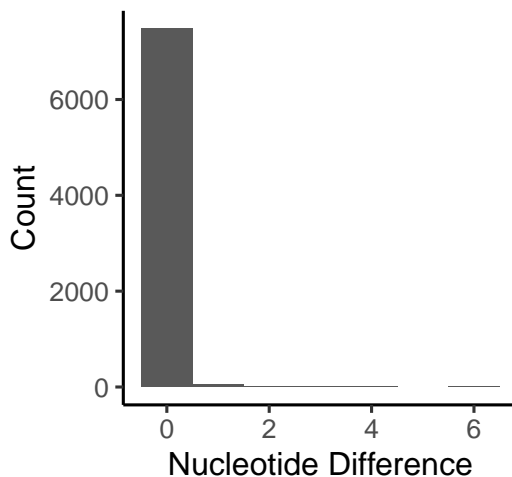
TRBV17*ap01

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



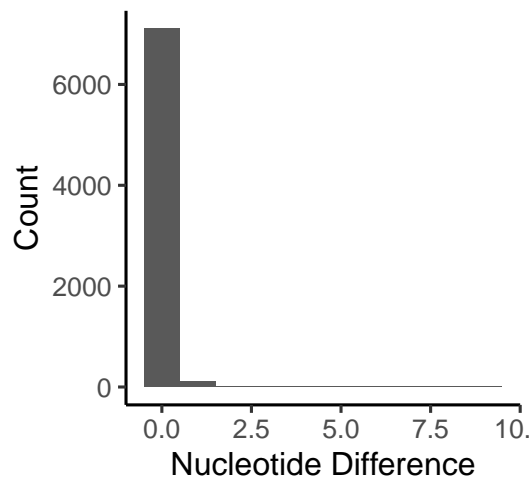
TRBV2*ap01

7535 sequences assigned
7477 (99.2%) exact matches, in which:
7384 unique CDR3
13 unique J



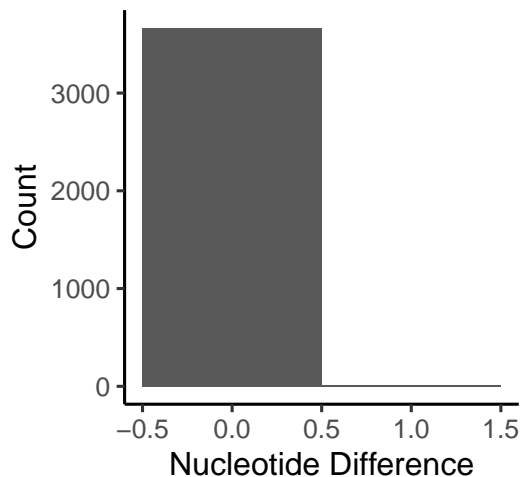
TRBV30*ap01

7233 sequences assigned
7105 (98.2%) exact matches, in which:
6956 unique CDR3
13 unique J



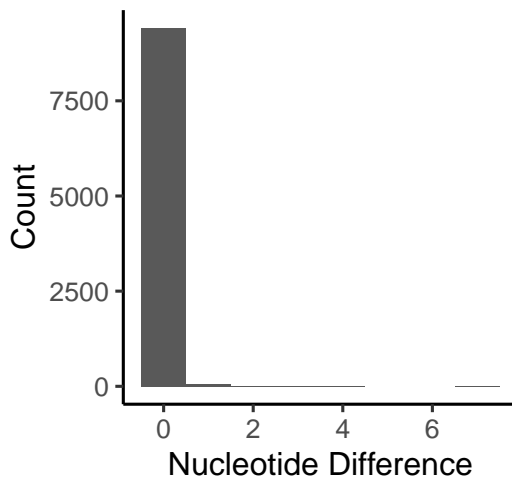
TRBV18*ap01

3678 sequences assigned
3665 (99.6%) exact matches, in which:
3646 unique CDR3
13 unique J



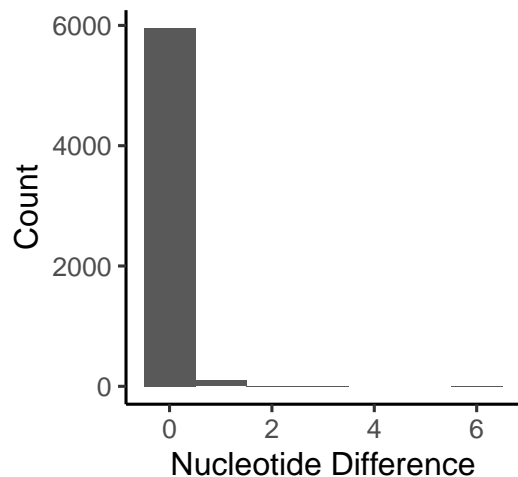
TRBV27*ap01

9483 sequences assigned
9412 (99.3%) exact matches, in which:
9317 unique CDR3
13 unique J



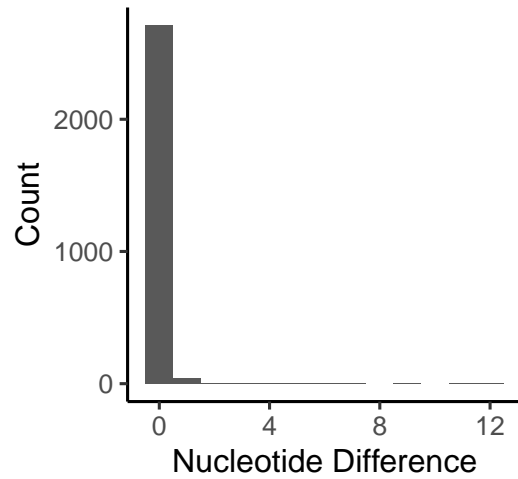
TRBV9*ap01

6058 sequences assigned
5956 (98.3%) exact matches, in which:
5924 unique CDR3
13 unique J



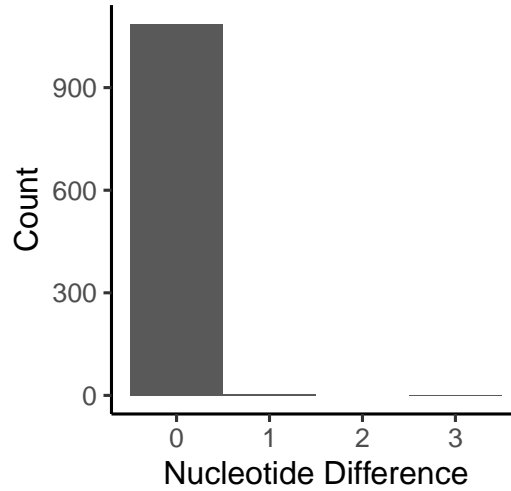
TRBV21-1*ap01

2772 sequences assigned
2710 (97.8%) exact matches, in which:
2697 unique CDR3
13 unique J



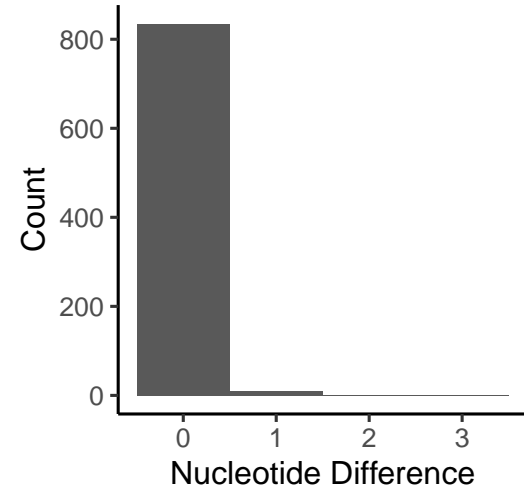
TRBV11-3*ap01

1093 sequences assigned
1087 (99.5%) exact matches, in which:
1081 unique CDR3
13 unique J



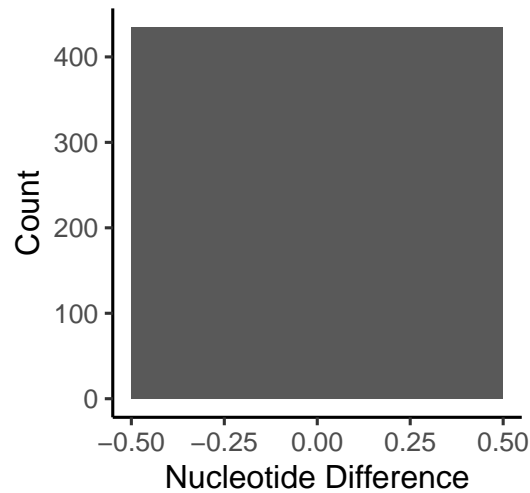
TRBV12-5*ap01

847 sequences assigned
835 (98.6%) exact matches, in which:
818 unique CDR3
13 unique J



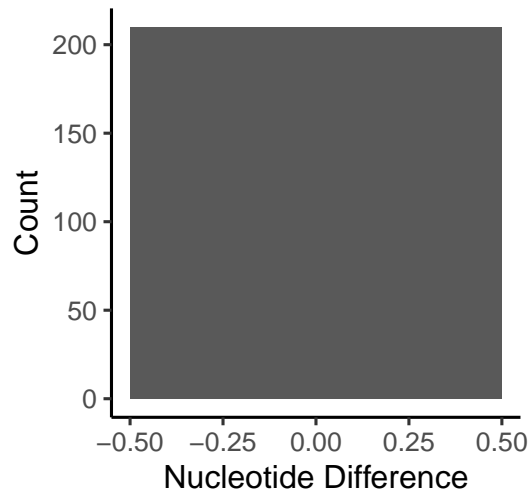
TRBV11-1*ap01

435 sequences assigned
435 (100%) exact matches, in which:
434 unique CDR3
13 unique J



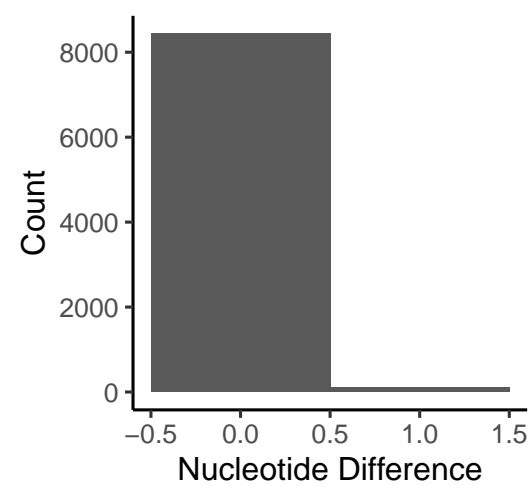
TRBV12-1*ap01

210 sequences assigned
210 (100%) exact matches, in which:
208 unique CDR3
13 unique J



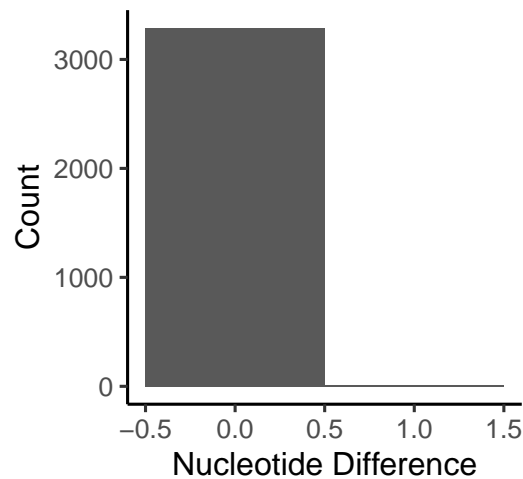
TRBV12-34*ap01

8535 sequences assigned
8436 (98.8%) exact matches, in which:
8337 unique CDR3
13 unique J



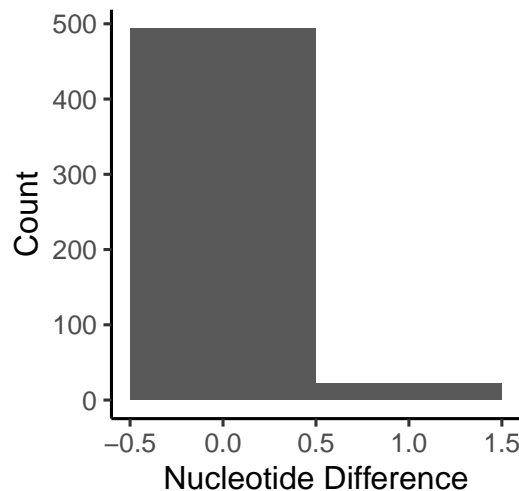
TRBV11-2*ap01

3299 sequences assigned
3288 (99.7%) exact matches, in which:
3270 unique CDR3
13 unique J



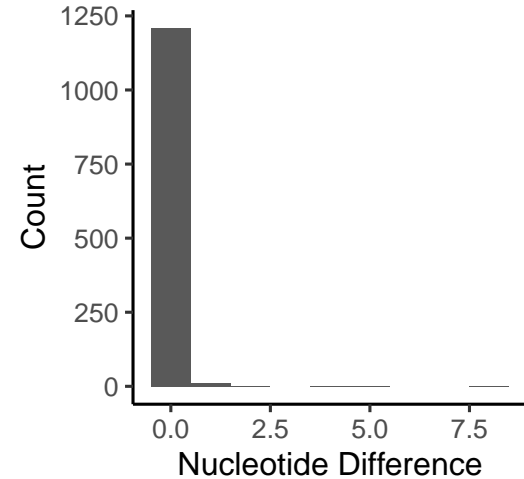
TRBV12-2*ap01

516 sequences assigned
494 (95.7%) exact matches, in which:
490 unique CDR3
13 unique J



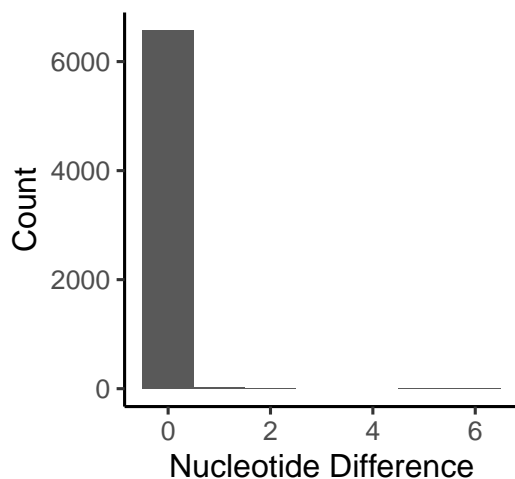
TRBV23-1*ap01

1224 sequences assigned
1209 (98.8%) exact matches, in which:
1198 unique CDR3
13 unique J



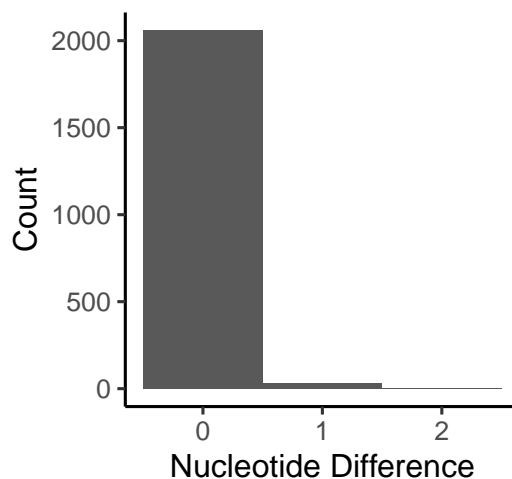
TRBV3-12*ap01

6609 sequences assigned
6572 (99.4%) exact matches, in which:
6532 unique CDR3
13 unique J



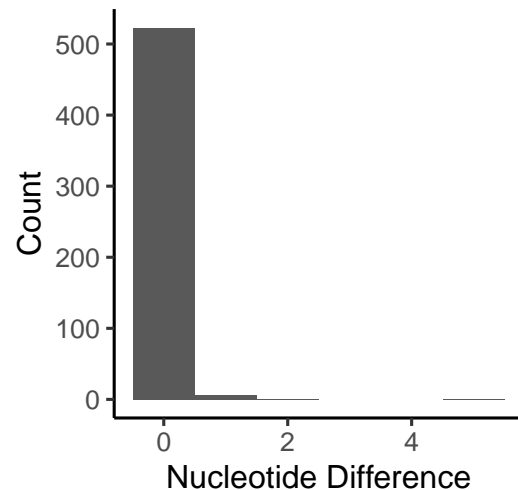
TRBV4-2*ap01

2092 sequences assigned
2059 (98.4%) exact matches, in which:
2032 unique CDR3
13 unique J



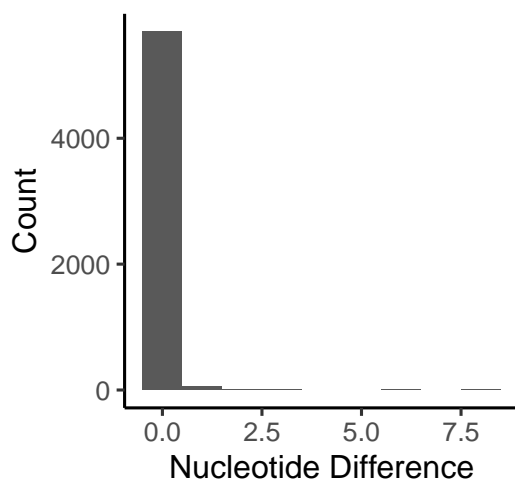
TRBV5-3*ap01

531 sequences assigned
523 (98.5%) exact matches, in which:
516 unique CDR3
13 unique J



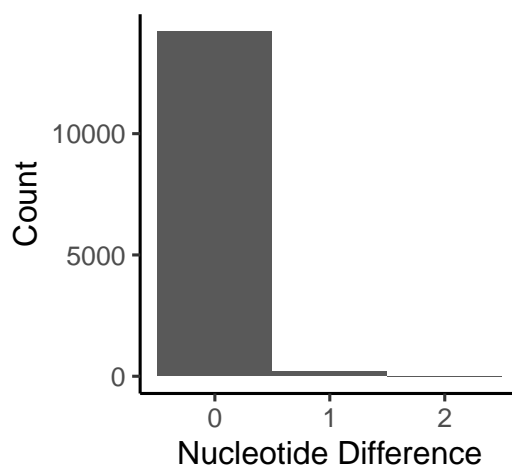
TRBV4-1*ap01

5761 sequences assigned
5693 (98.8%) exact matches, in which:
5585 unique CDR3
13 unique J



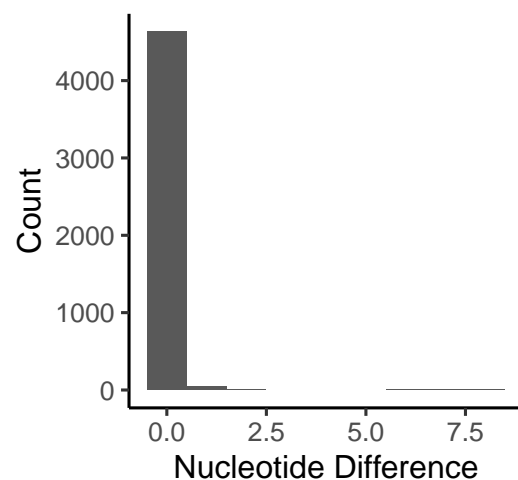
TRBV5-1*ap01

14420 sequences assigned
14212 (98.6%) exact matches, in which:
13997 unique CDR3
13 unique J



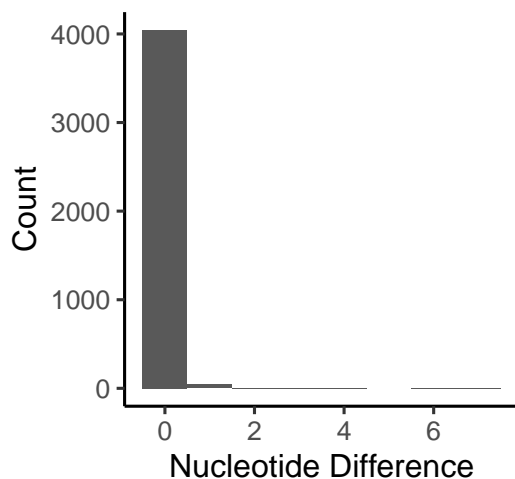
TRBV5-4*ap01

4682 sequences assigned
4632 (98.9%) exact matches, in which:
4562 unique CDR3
13 unique J



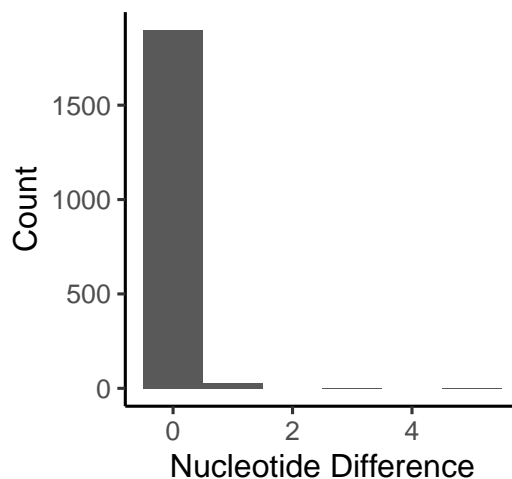
TRBV24-1*ap01

4099 sequences assigned
4044 (98.7%) exact matches, in which:
3982 unique CDR3
13 unique J



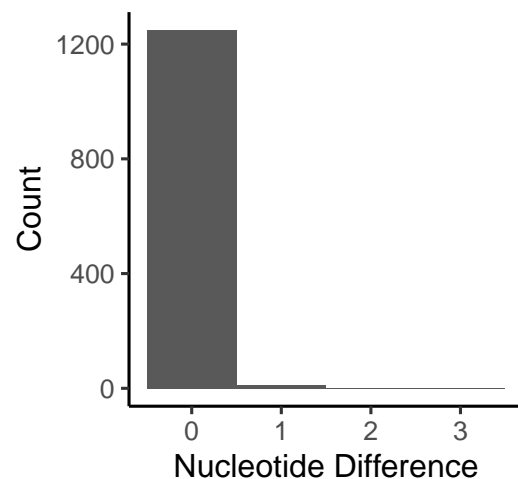
TRBV25-1*ap01

1929 sequences assigned
1898 (98.4%) exact matches, in which:
1844 unique CDR3
13 unique J



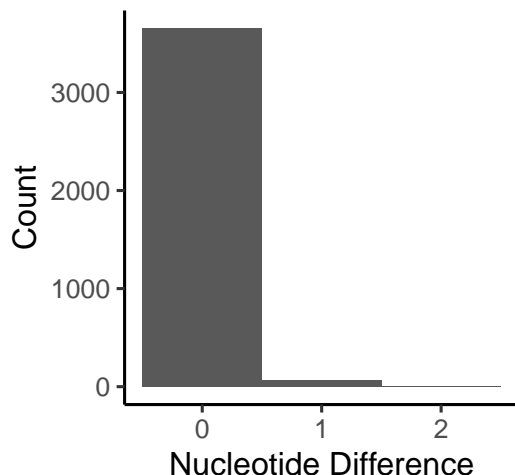
TRBV5-5*ap01

1264 sequences assigned
1249 (98.8%) exact matches, in which:
1244 unique CDR3
13 unique J



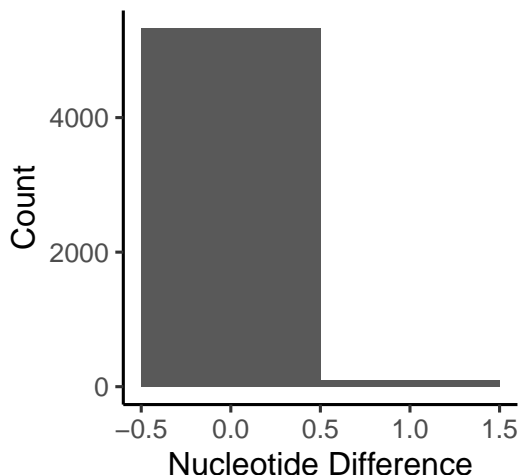
TRBV5-6*ap01

3720 sequences assigned
3653 (98.2%) exact matches, in which:
3566 unique CDR3
13 unique J



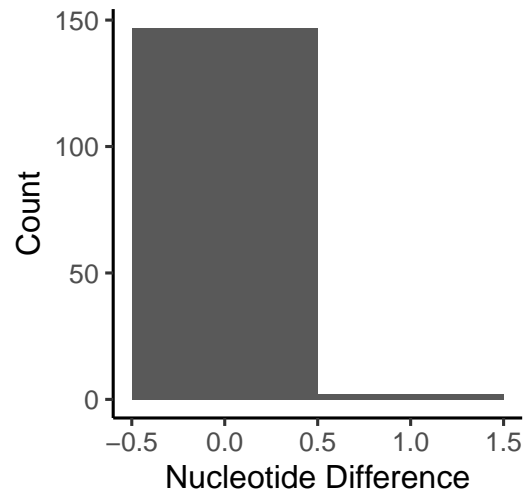
TRBV6-1*ap01

5427 sequences assigned
5326 (98.1%) exact matches, in which:
5246 unique CDR3
13 unique J



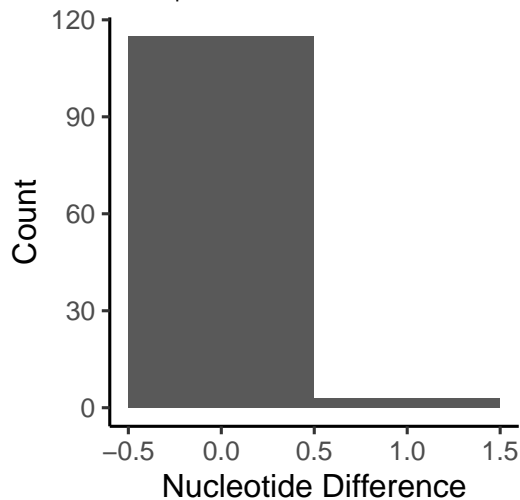
TRBV6-8*ap01

149 sequences assigned
147 (98.7%) exact matches, in which:
143 unique CDR3
13 unique J



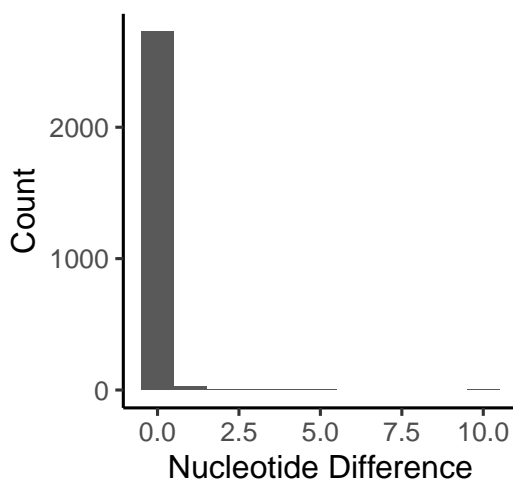
TRBV5-7*ap01

118 sequences assigned
115 (97.5%) exact matches, in which:
109 unique CDR3
12 unique J



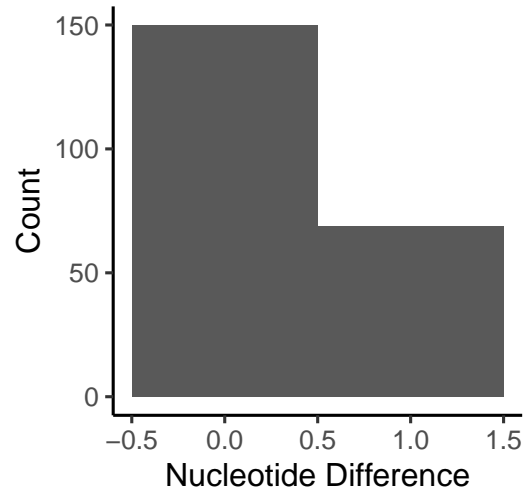
TRBV6-4*ap01

2762 sequences assigned
2727 (98.7%) exact matches, in which:
2706 unique CDR3
13 unique J



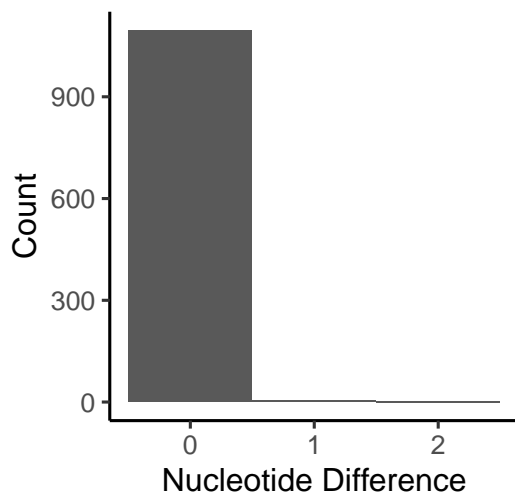
TRBV6-9*ap01

219 sequences assigned
150 (68.5%) exact matches, in which:
147 unique CDR3
12 unique J



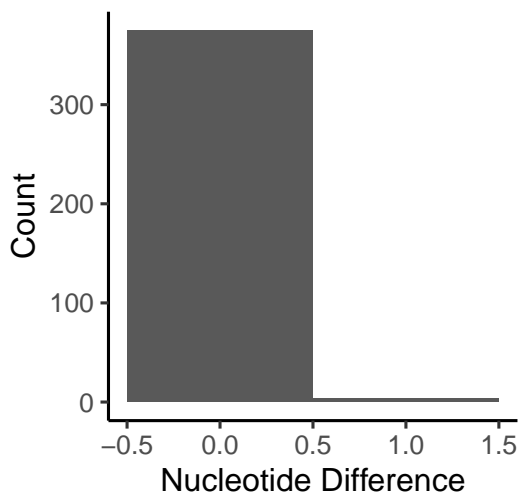
TRBV5-8*ap01

1104 sequences assigned
1096 (99.3%) exact matches, in which:
1084 unique CDR3
13 unique J



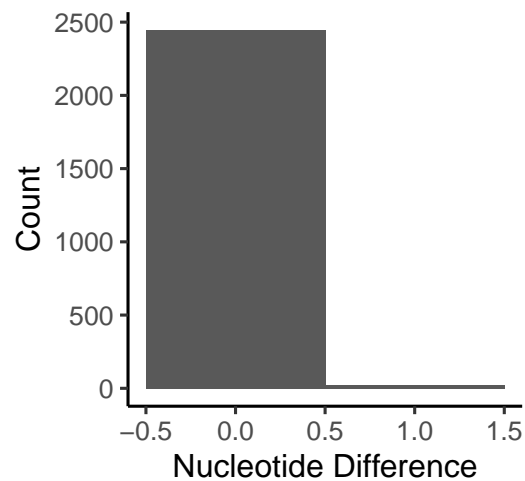
TRBV6-7*ap01

379 sequences assigned
375 (98.9%) exact matches, in which:
367 unique CDR3
13 unique J



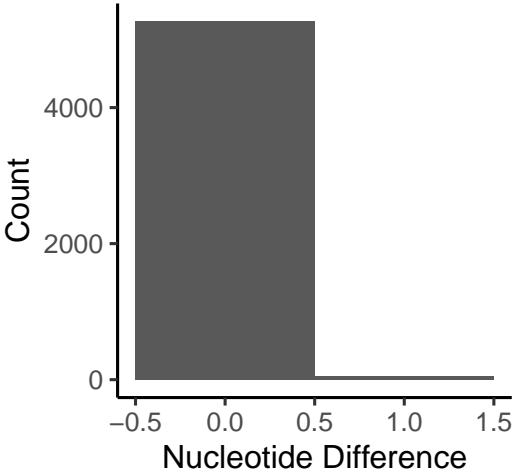
TRBV6-23*ap01

2468 sequences assigned
2446 (99.1%) exact matches, in which:
2404 unique CDR3
13 unique J



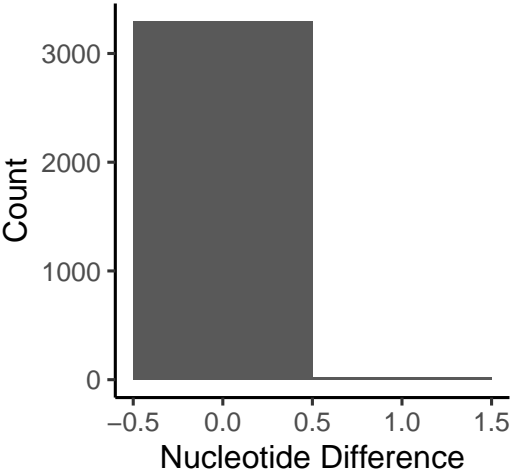
TRBV6-56*ap01

5316 sequences assigned
5267 (99.1%) exact matches, in which:
5168 unique CDR3
13 unique J



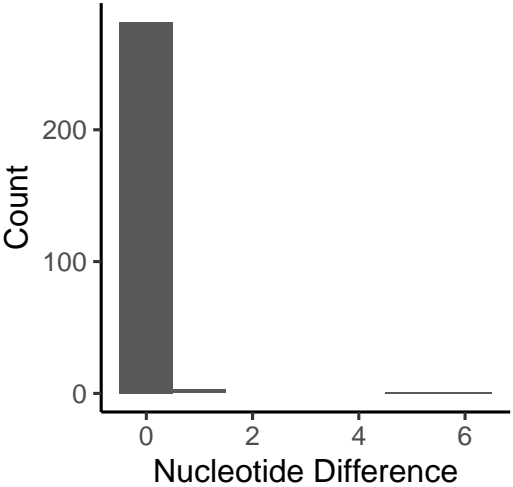
TRBV7-2*ap01

3322 sequences assigned
3295 (99.2%) exact matches, in which:
3267 unique CDR3
13 unique J



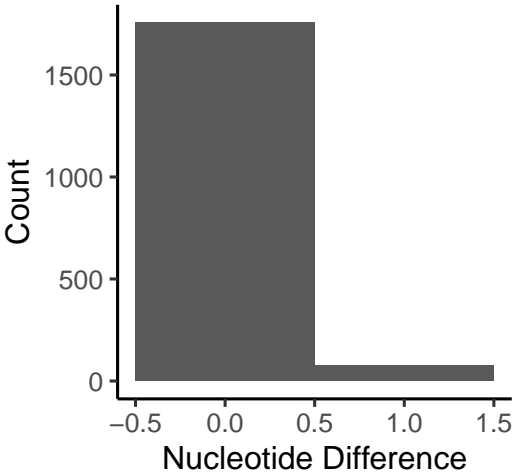
TRBV7-4*ap01

287 sequences assigned
282 (98.3%) exact matches, in which:
277 unique CDR3
13 unique J



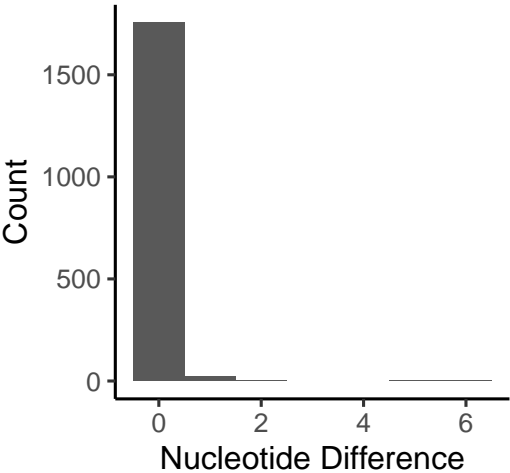
TRBV6-56*ap02

1832 sequences assigned
1756 (95.9%) exact matches, in which:
1733 unique CDR3
13 unique J



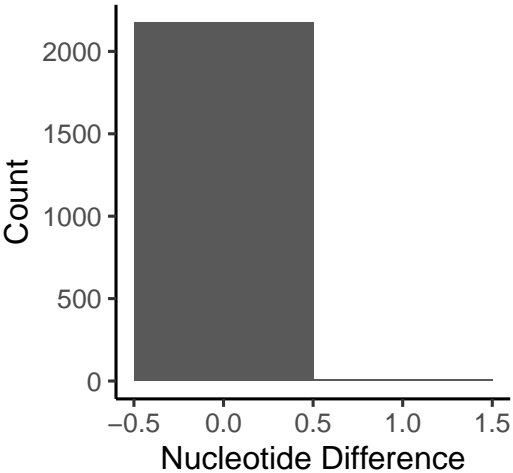
TRBV7-3*ap01

1781 sequences assigned
1755 (98.5%) exact matches, in which:
1744 unique CDR3
13 unique J



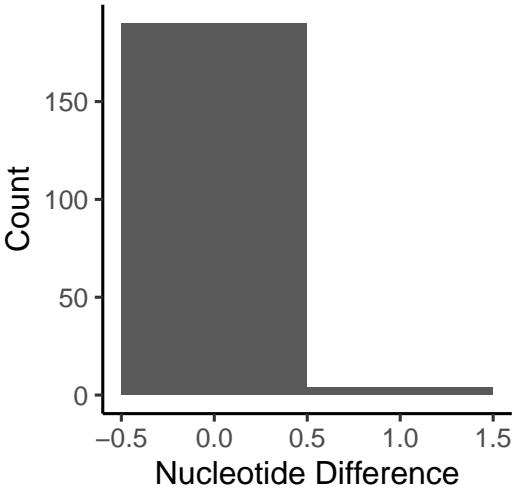
TRBV7-6*ap01

2181 sequences assigned
2174 (99.7%) exact matches, in which:
2145 unique CDR3
13 unique J



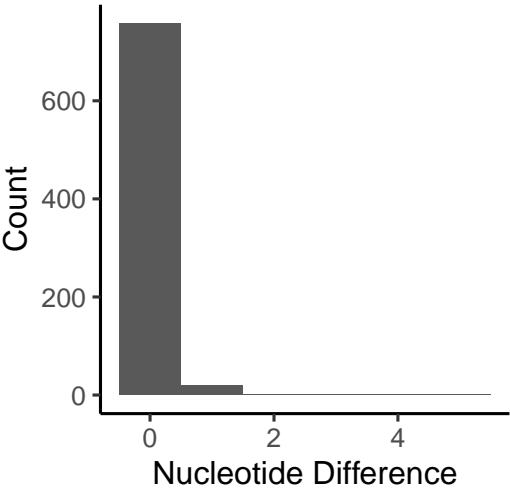
TRBV7-1*ap01_G291C_

194 sequences assigned
190 (97.9%) exact matches, in which:
187 unique CDR3
12 unique J



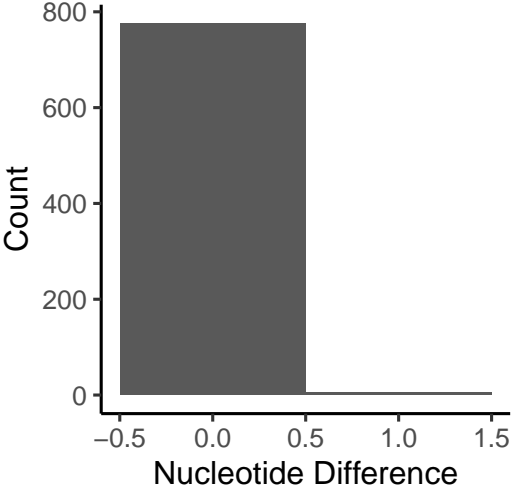
TRBV7-3*ap03

782 sequences assigned
758 (96.9%) exact matches, in which:
753 unique CDR3
13 unique J



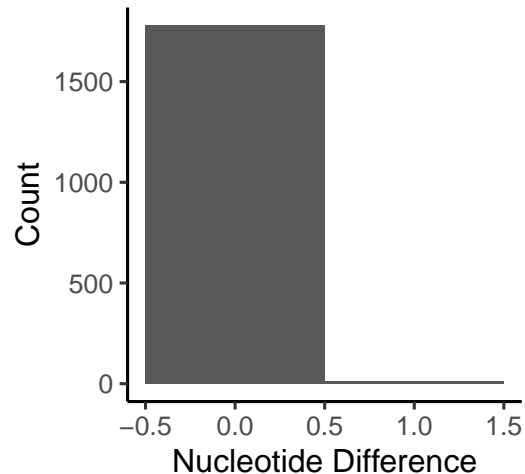
TRBV7-7*ap01

782 sequences assigned
776 (99.2%) exact matches, in which:
765 unique CDR3
13 unique J



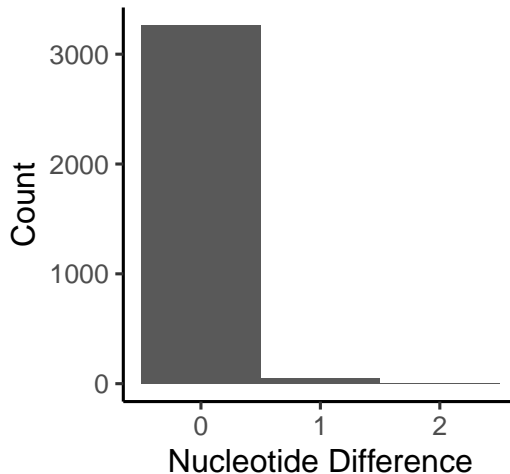
TRBV7-8*ap01

1789 sequences assigned
1779 (99.4%) exact matches, in which:
1765 unique CDR3
13 unique J



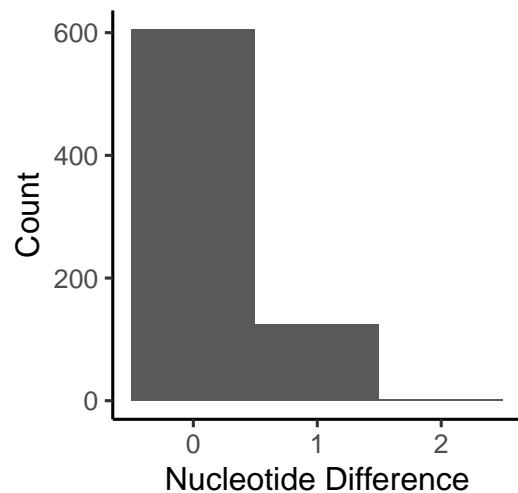
TRBV29-1*ap01

3309 sequences assigned
3262 (98.6%) exact matches, in which:
3198 unique CDR3
13 unique J



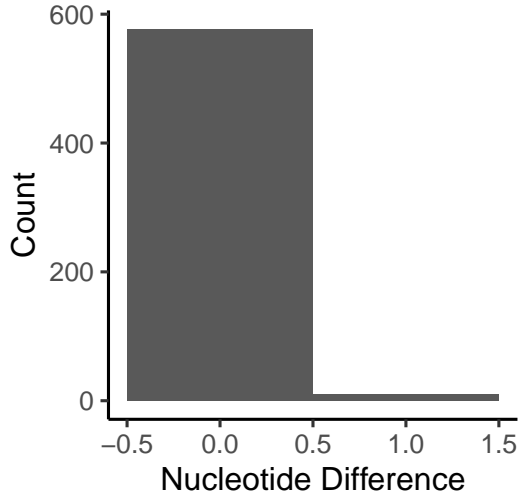
TRBV7-8*ap03

732 sequences assigned
606 (82.8%) exact matches, in which:
601 unique CDR3
13 unique J



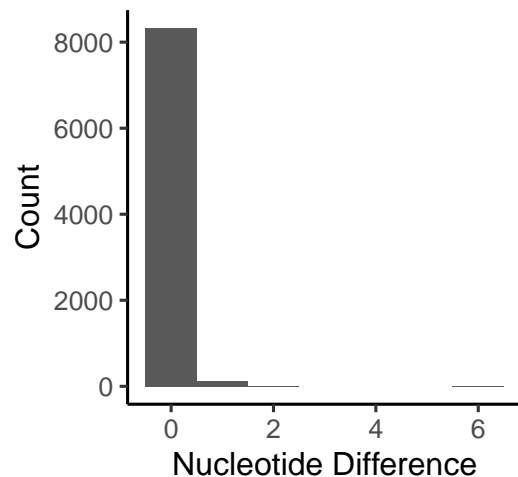
TRBV29-1*ap02

587 sequences assigned
577 (98.3%) exact matches, in which:
568 unique CDR3
13 unique J

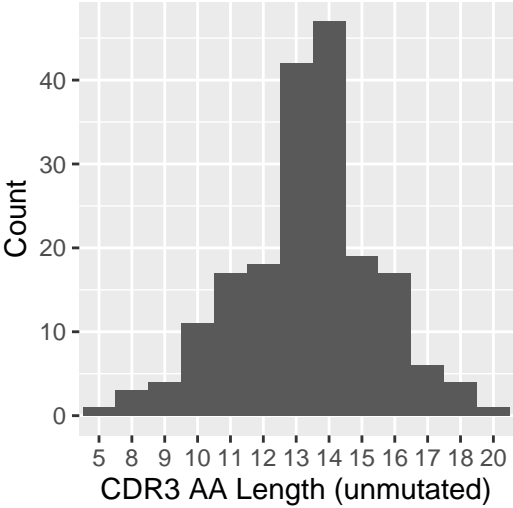


TRBV7-9*ap01

8462 sequences assigned
8328 (98.4%) exact matches, in which:
8235 unique CDR3
13 unique J



TRBV7-1*ap01_G291C_T296C_C314T





[illegible]