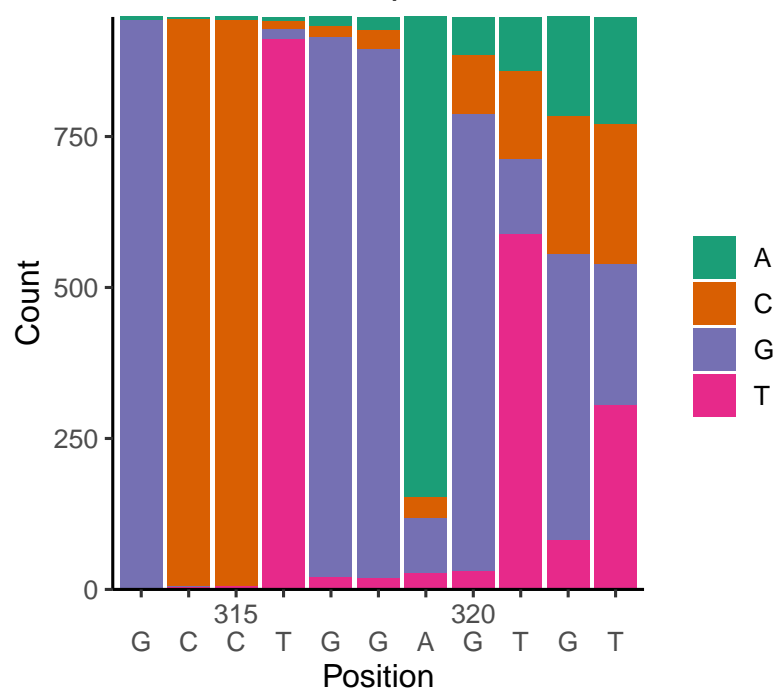
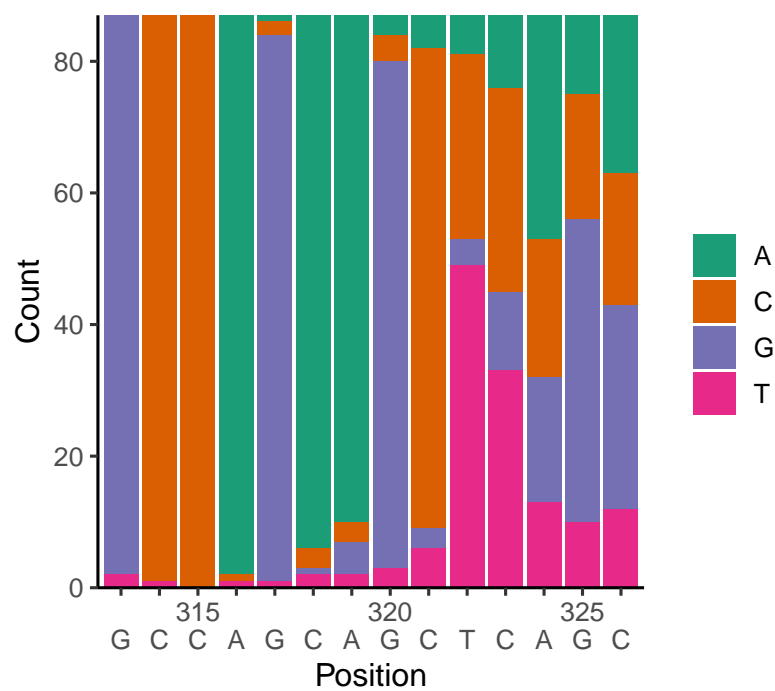


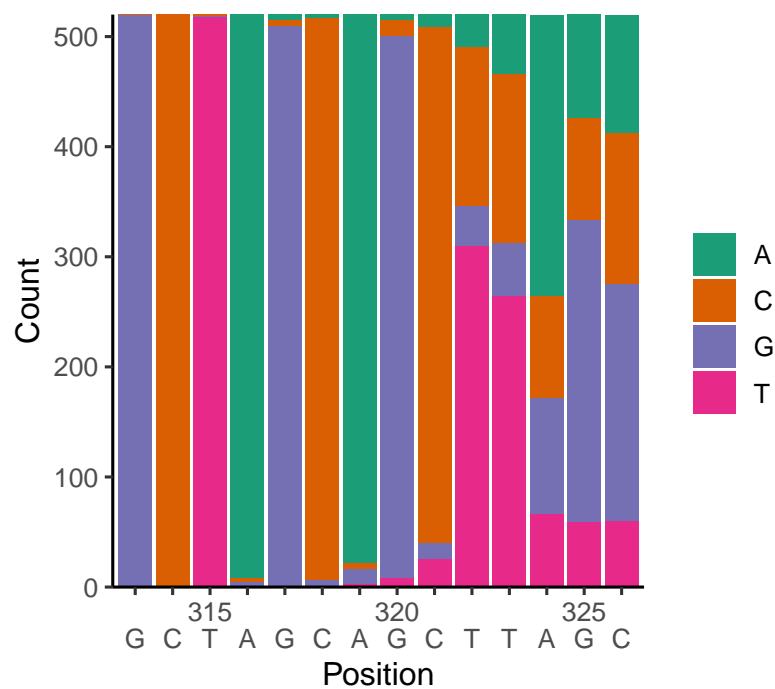
Gene TRBV30*ap01_G298A



Gene TRBV7-1*ap01_G291C_T296C



Gene TRBV7-7*ap01_C315T



Gene TRBV30*ap01_G298A



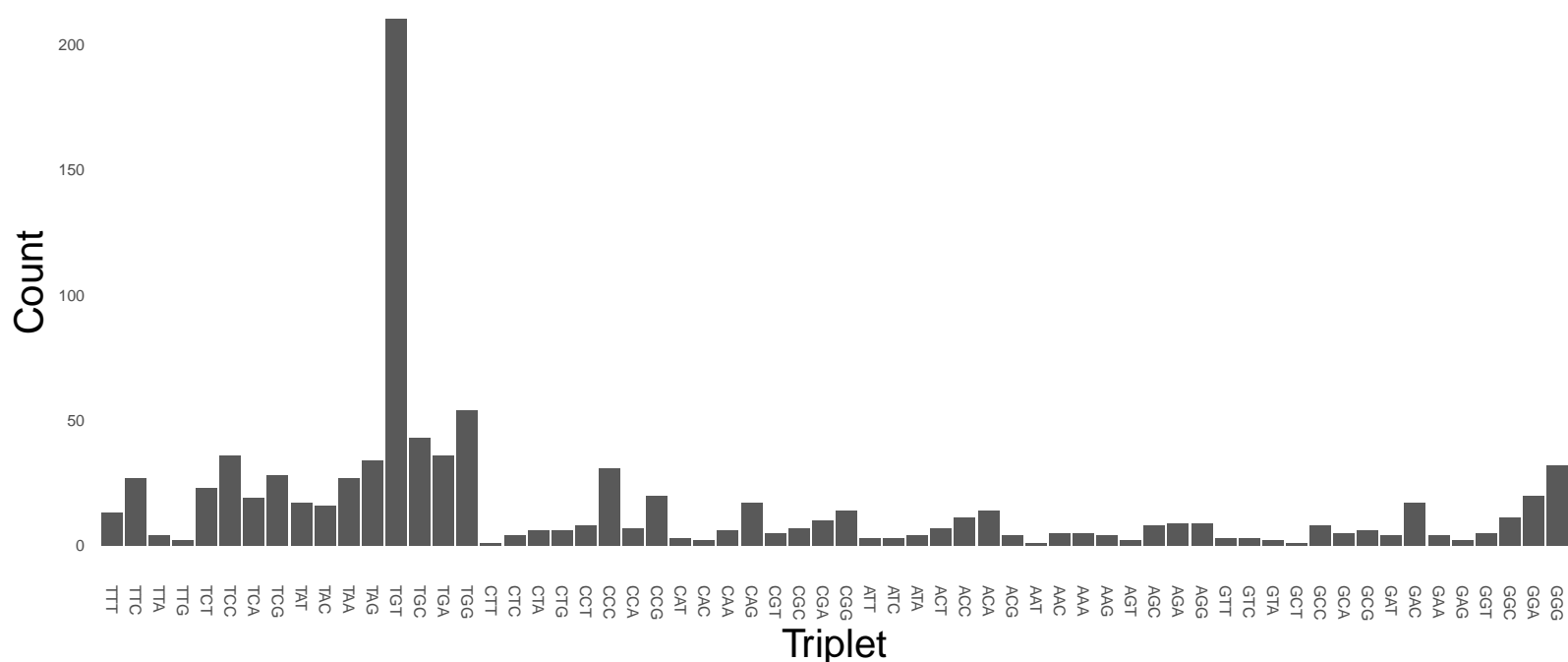
Gene TRBV7-1*ap01_G291C_T296C



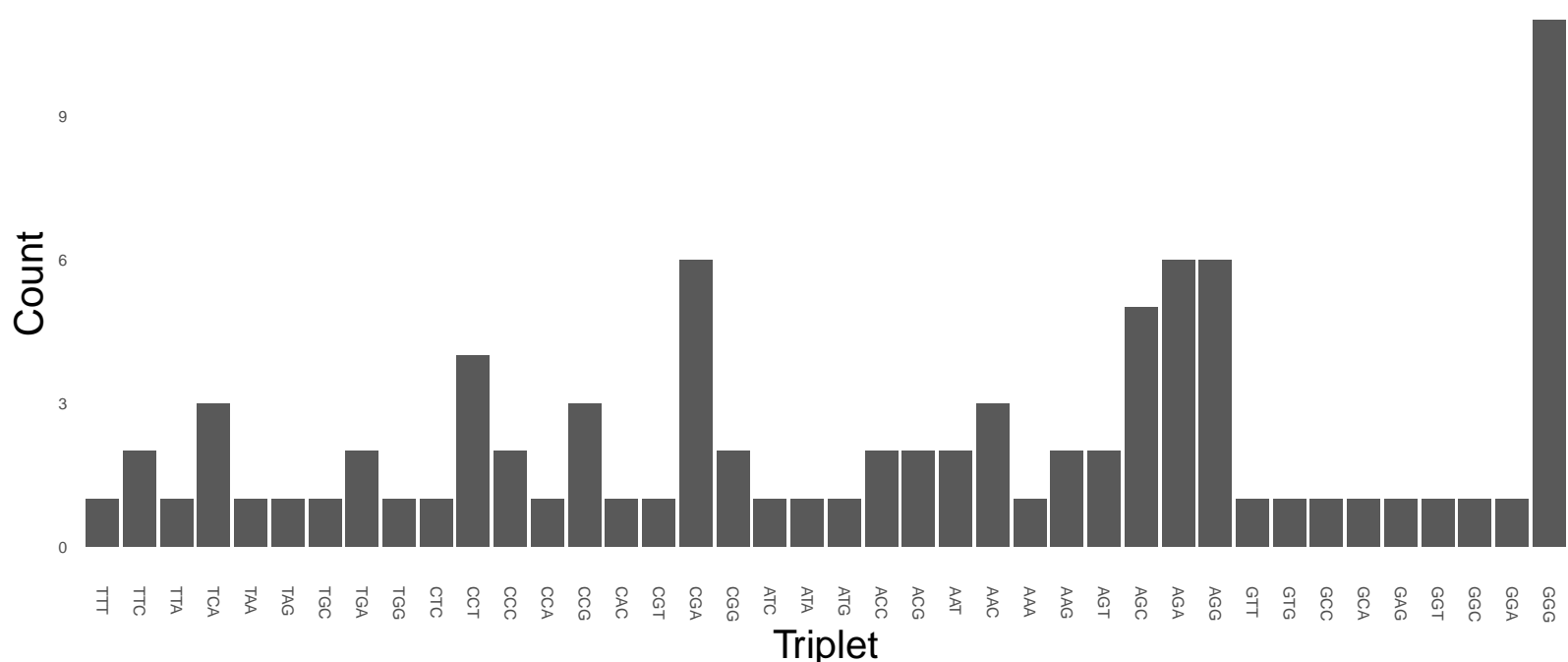
Gene TRBV7-7*ap01_C315T



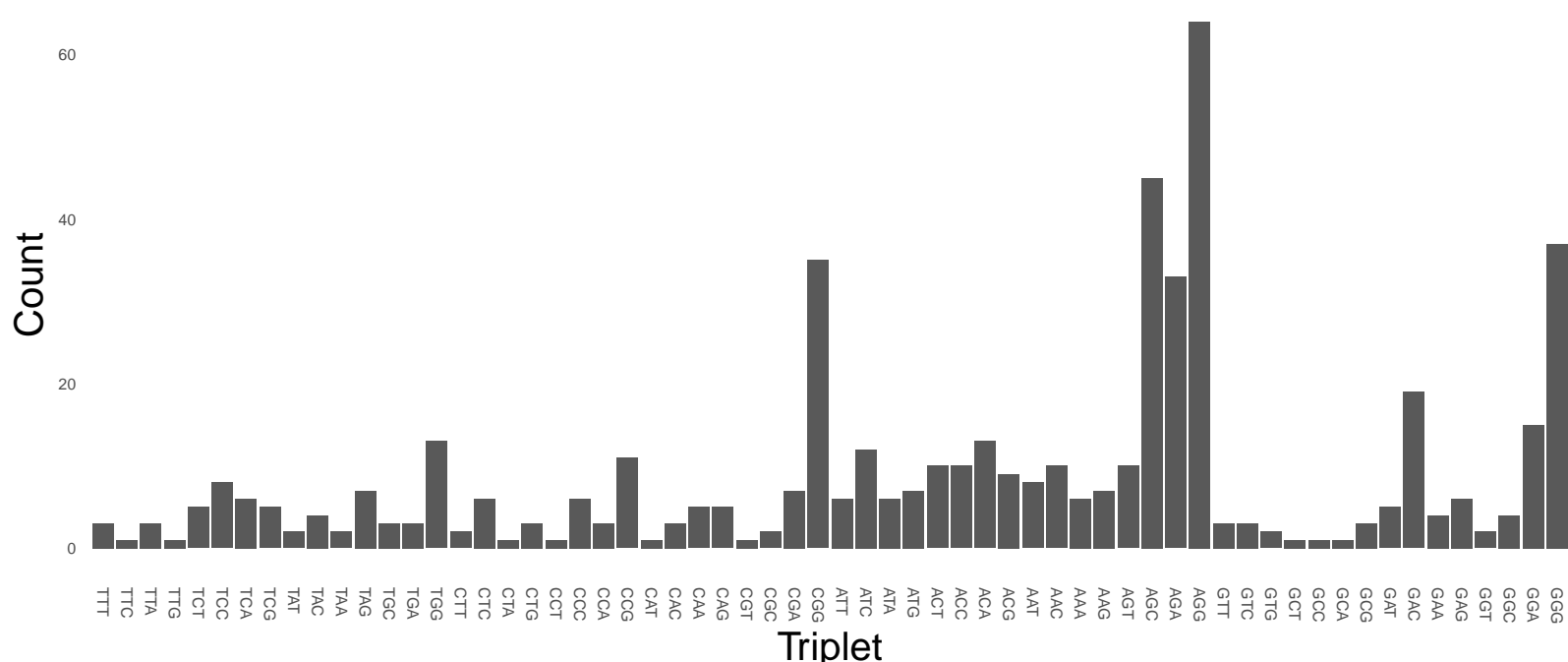
TRBV30*ap01_G298A– Final 3 nucleotides as a triplet



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

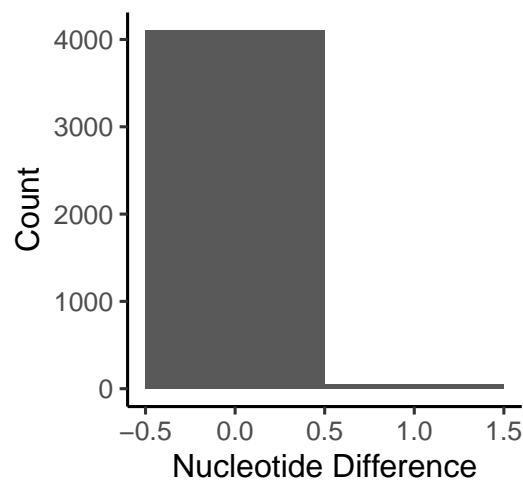


TRBV7–7*ap01_C315T– Final 3 nucleotides as a triplet



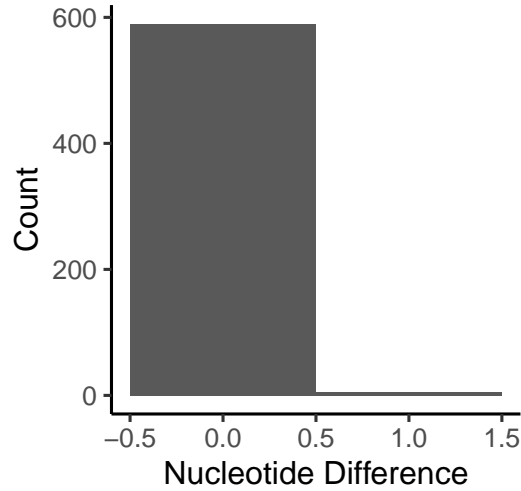
TRBV20-1*ap01

4153 sequences assigned
4104 (98.8%) exact matches, in which:
3982 unique CDR3
13 unique J



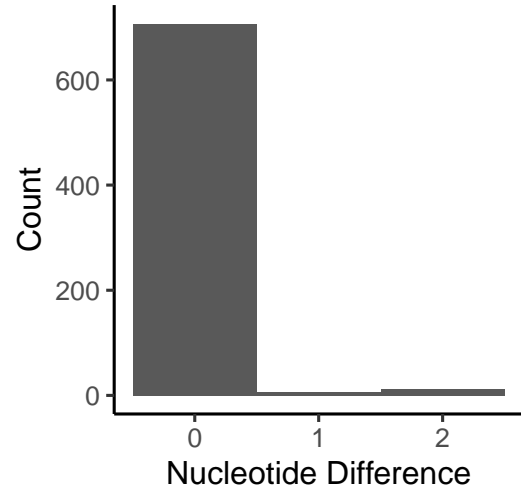
TRBV10-2*ap01

595 sequences assigned
590 (99.2%) exact matches, in which:
572 unique CDR3
13 unique J



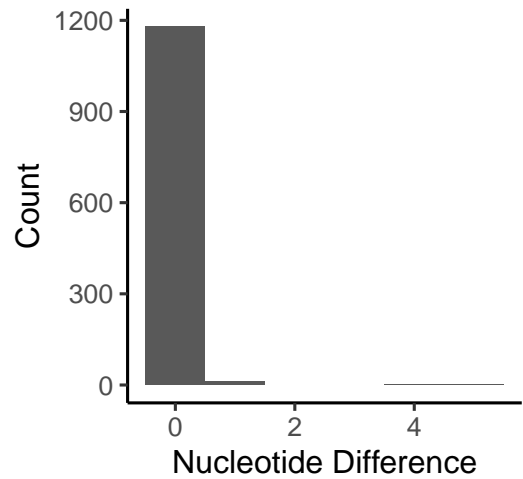
TRBV13*ap01

726 sequences assigned
707 (97.4%) exact matches, in which:
692 unique CDR3
13 unique J



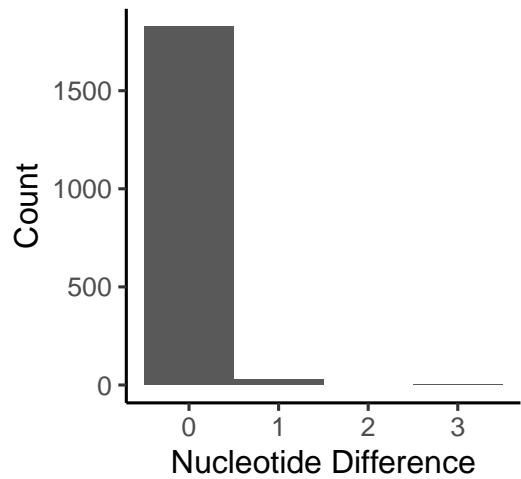
TRBV10-1*ap01

1191 sequences assigned
1179 (99%) exact matches, in which:
1155 unique CDR3
13 unique J



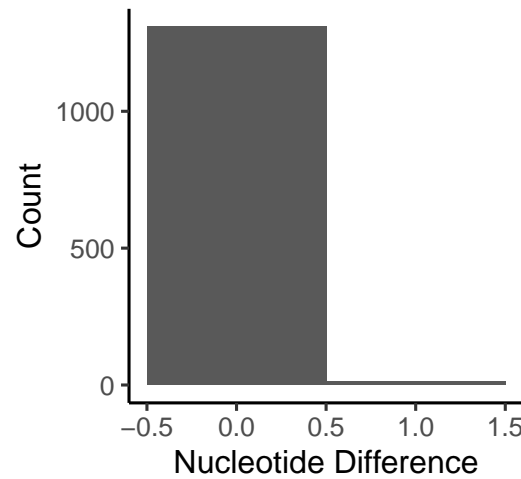
TRBV10-3*ap01

1856 sequences assigned
1826 (98.4%) exact matches, in which:
1776 unique CDR3
13 unique J



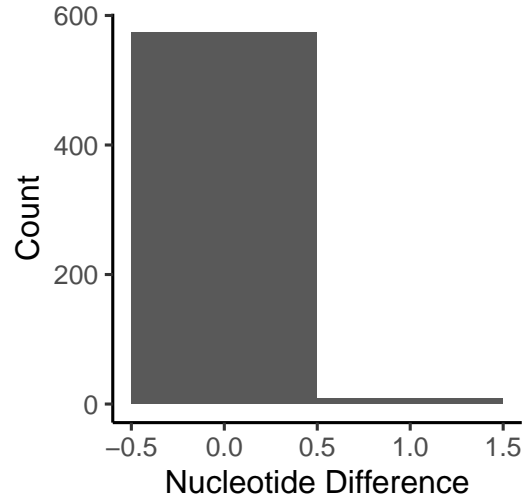
TRBV14*ap01

1322 sequences assigned
1309 (99%) exact matches, in which:
1277 unique CDR3
13 unique J



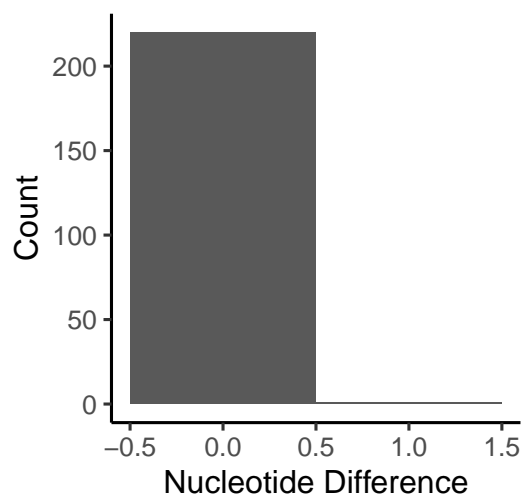
TRBV20-1*ap02

582 sequences assigned
574 (98.6%) exact matches, in which:
562 unique CDR3
13 unique J



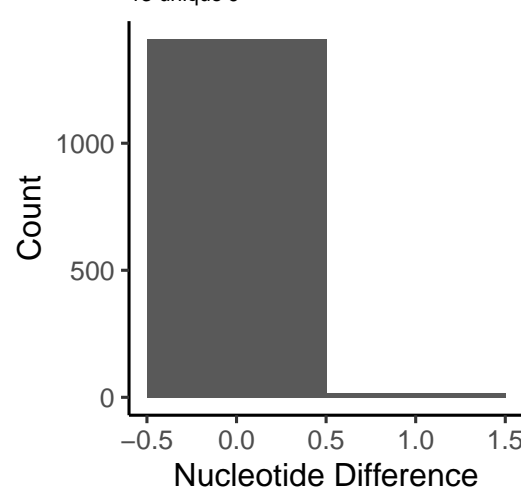
TRBV1*ap01

221 sequences assigned
220 (99.5%) exact matches, in which:
218 unique CDR3
13 unique J



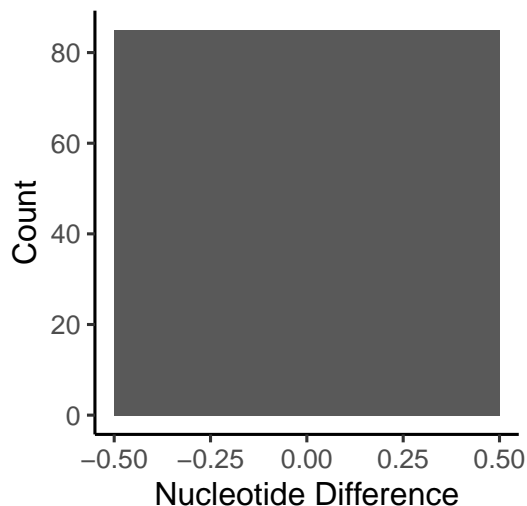
TRBV15*ap02

1426 sequences assigned
1410 (98.9%) exact matches, in which:
1376 unique CDR3
13 unique J



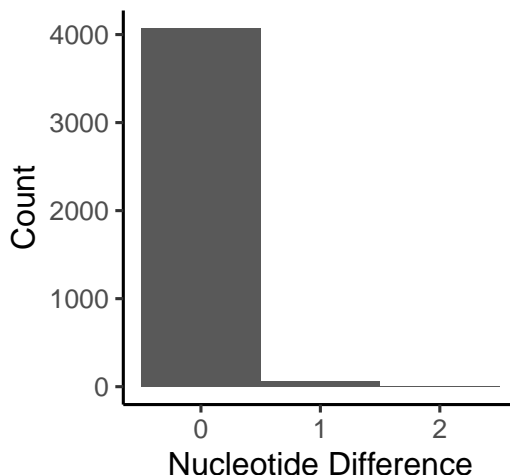
TRBV16*ap01

85 sequences assigned
85 (100%) exact matches, in which:
84 unique CDR3
13 unique J



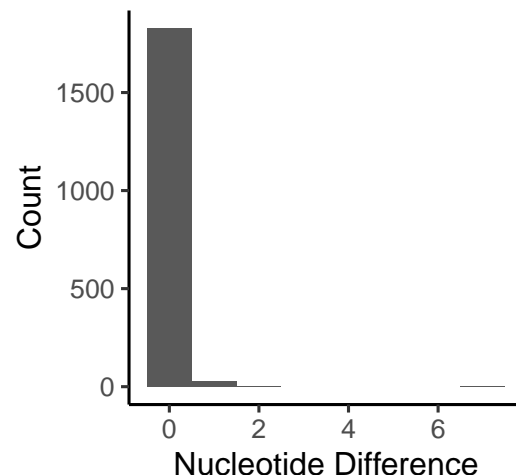
TRBV2*ap01

4131 sequences assigned
4070 (98.5%) exact matches, in which:
4004 unique CDR3
13 unique J



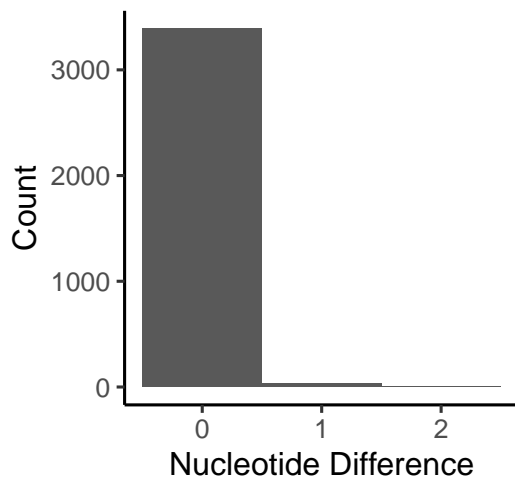
TRBV30*ap01

1855 sequences assigned
1827 (98.5%) exact matches, in which:
1809 unique CDR3
13 unique J



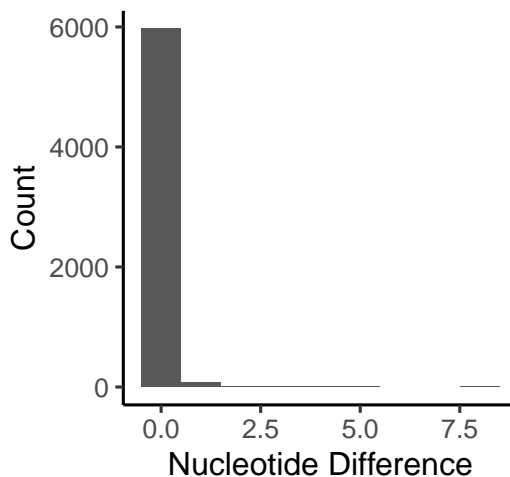
TRBV18*ap01

3422 sequences assigned
3389 (99%) exact matches, in which:
3326 unique CDR3
13 unique J



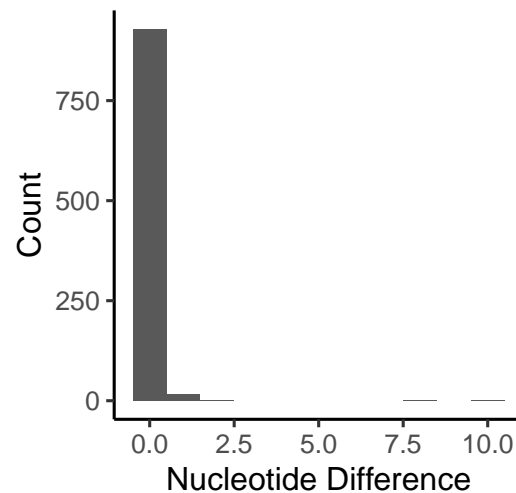
TRBV27*ap01

6063 sequences assigned
5970 (98.5%) exact matches, in which:
5807 unique CDR3
13 unique J



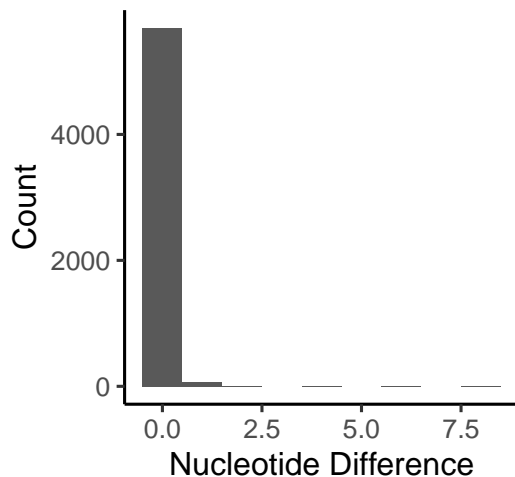
TRBV30*ap01_G298A

948 sequences assigned
929 (98%) exact matches, in which:
922 unique CDR3
13 unique J



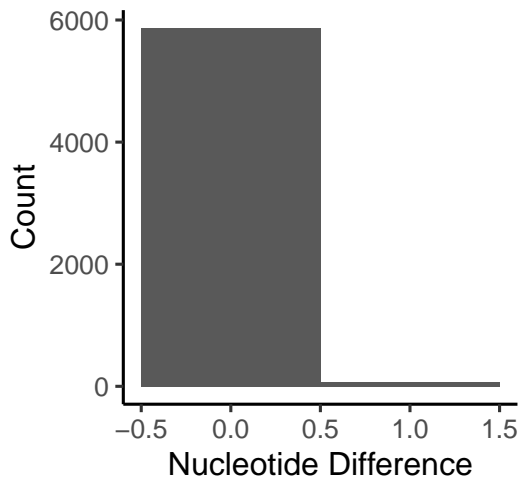
TRBV19*ap01

5767 sequences assigned
5689 (98.6%) exact matches, in which:
5574 unique CDR3
13 unique J



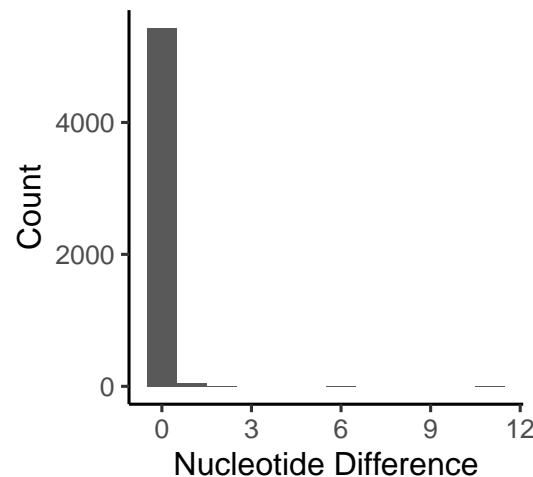
TRBV28*ap01

5941 sequences assigned
5868 (98.8%) exact matches, in which:
5696 unique CDR3
13 unique J



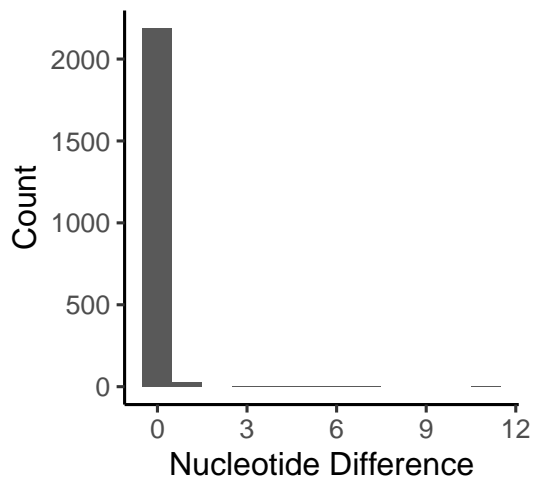
TRBV9*ap01

5483 sequences assigned
5431 (99.1%) exact matches, in which:
5317 unique CDR3
13 unique J



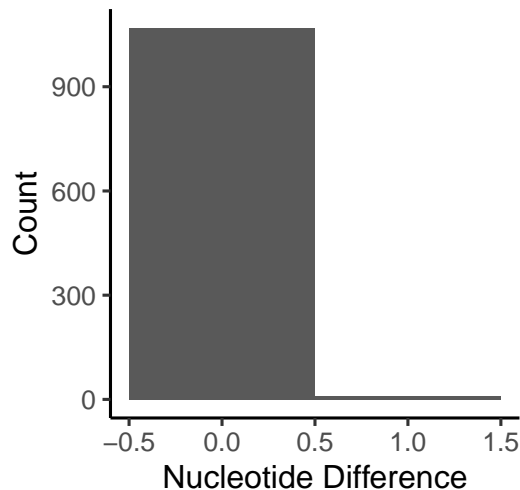
TRBV21-1*ap01

2221 sequences assigned
2187 (98.5%) exact matches, in which:
2142 unique CDR3
13 unique J



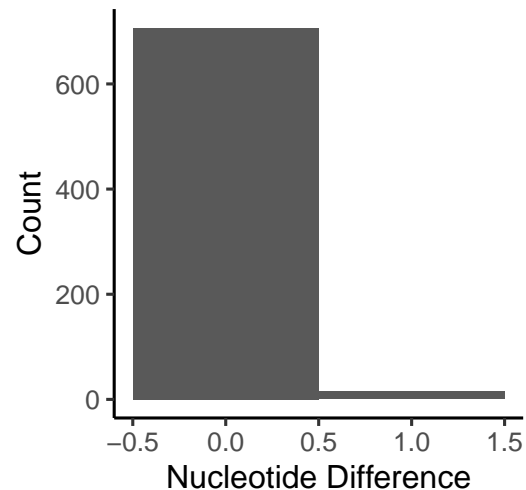
TRBV11-3*ap01

1080 sequences assigned
1070 (99.1%) exact matches, in which:
1041 unique CDR3
13 unique J



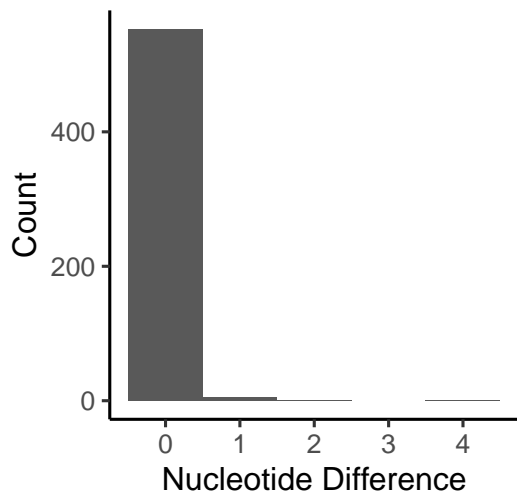
TRBV12-5*ap01

722 sequences assigned
707 (97.9%) exact matches, in which:
687 unique CDR3
13 unique J



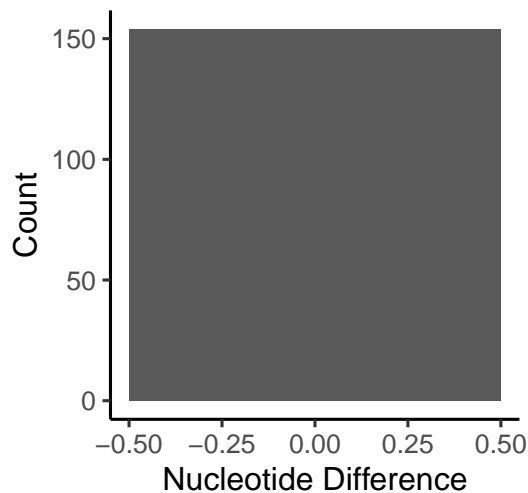
TRBV11-1*ap01

560 sequences assigned
553 (98.8%) exact matches, in which:
535 unique CDR3
13 unique J



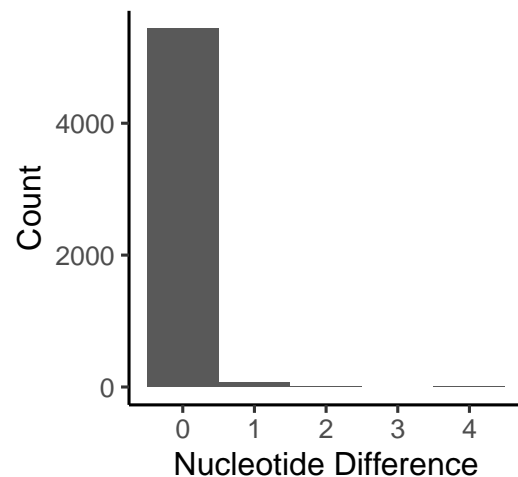
TRBV12-1*ap01

154 sequences assigned
154 (100%) exact matches, in which:
149 unique CDR3
12 unique J



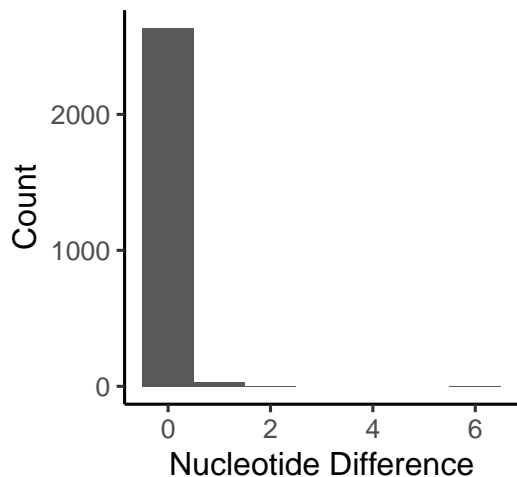
TRBV12-34*ap01

5500 sequences assigned
5433 (98.8%) exact matches, in which:
5303 unique CDR3
13 unique J



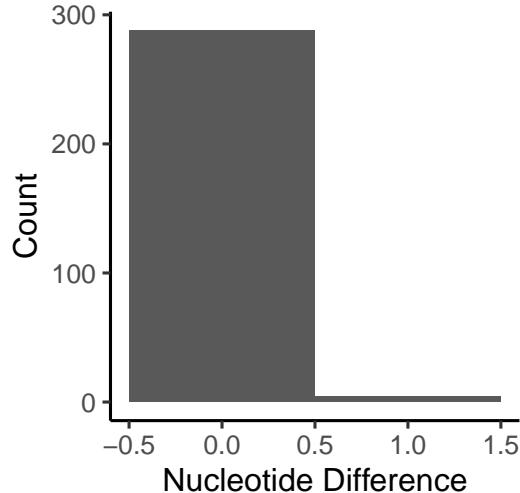
TRBV11-2*ap01

2669 sequences assigned
2635 (98.7%) exact matches, in which:
2560 unique CDR3
13 unique J



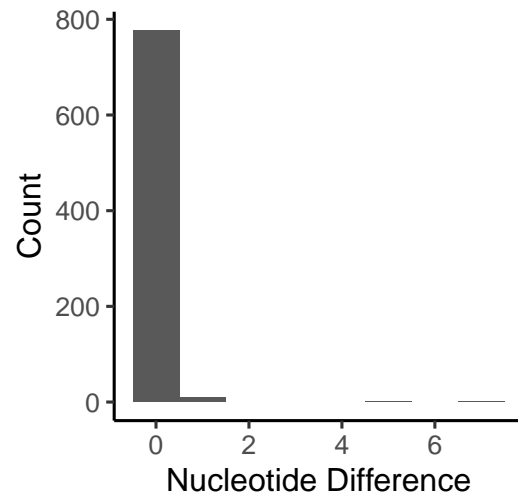
TRBV12-2*ap01

292 sequences assigned
288 (98.6%) exact matches, in which:
281 unique CDR3
13 unique J



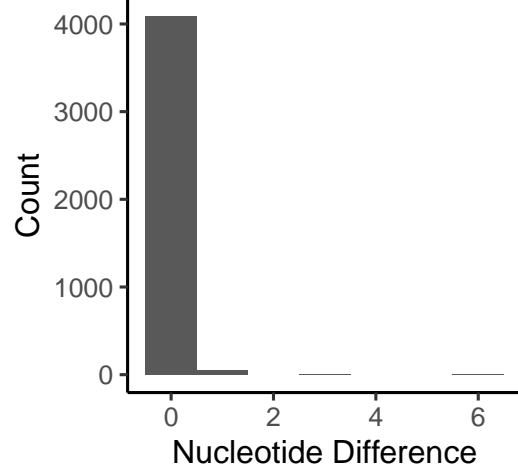
TRBV23-1*ap01

788 sequences assigned
777 (98.6%) exact matches, in which:
759 unique CDR3
13 unique J



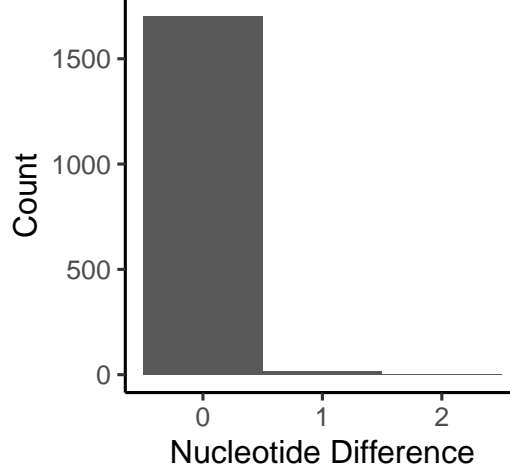
TRBV3-12*ap01

4142 sequences assigned
4086 (98.6%) exact matches, in which:
3999 unique CDR3
13 unique J



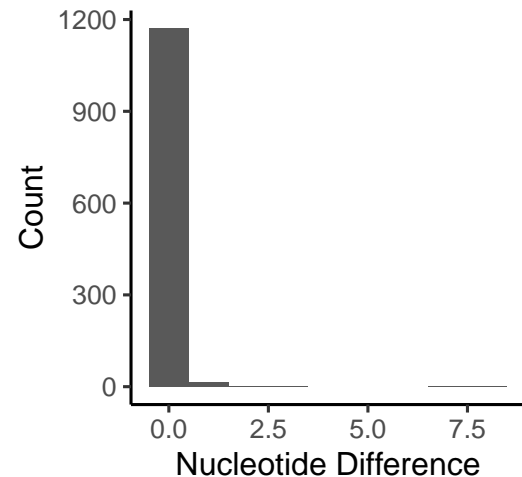
TRBV4-2*ap01

1721 sequences assigned
1701 (98.8%) exact matches, in which:
1664 unique CDR3
13 unique J



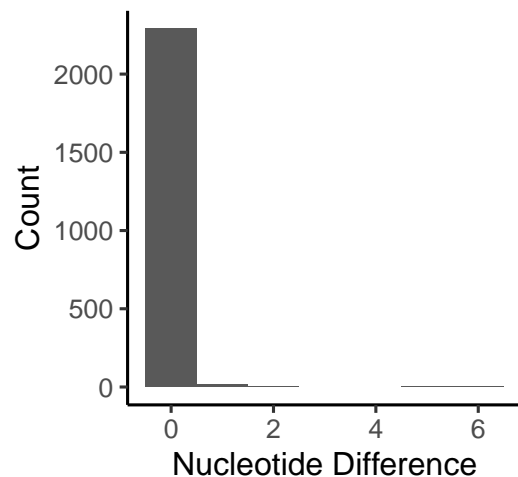
TRBV25-1*ap01

1191 sequences assigned
1171 (98.3%) exact matches, in which:
1156 unique CDR3
13 unique J



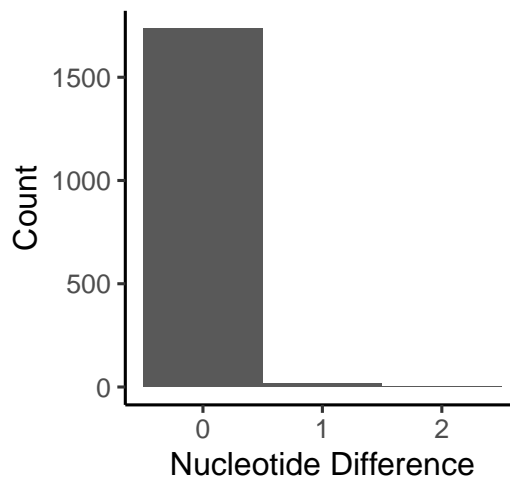
TRBV24-1*ap01

2313 sequences assigned
2290 (99%) exact matches, in which:
2248 unique CDR3
13 unique J



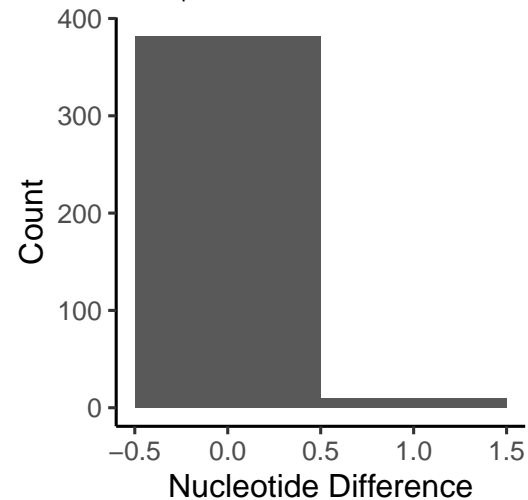
TRBV4-3*ap01

1752 sequences assigned
1735 (99%) exact matches, in which:
1697 unique CDR3
13 unique J



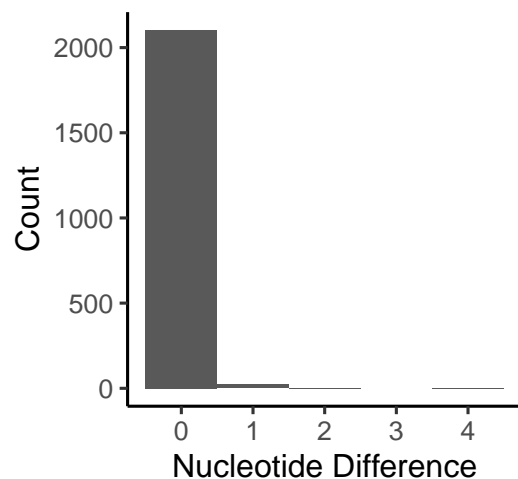
TRBV5-3*ap01

392 sequences assigned
382 (97.4%) exact matches, in which:
374 unique CDR3
13 unique J



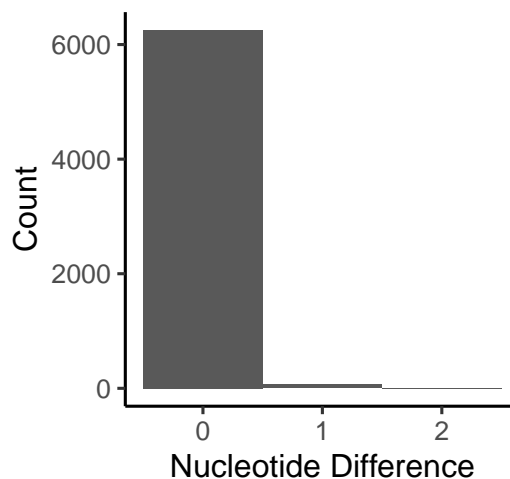
TRBV4-1*ap01

2127 sequences assigned
2103 (98.9%) exact matches, in which:
2069 unique CDR3
13 unique J



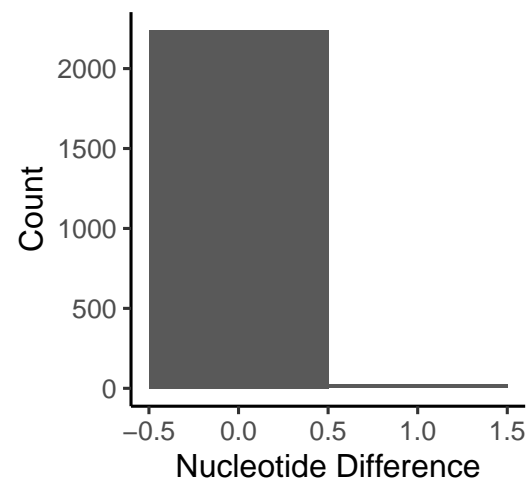
TRBV5-1*ap01

6323 sequences assigned
6253 (98.9%) exact matches, in which:
6106 unique CDR3
13 unique J



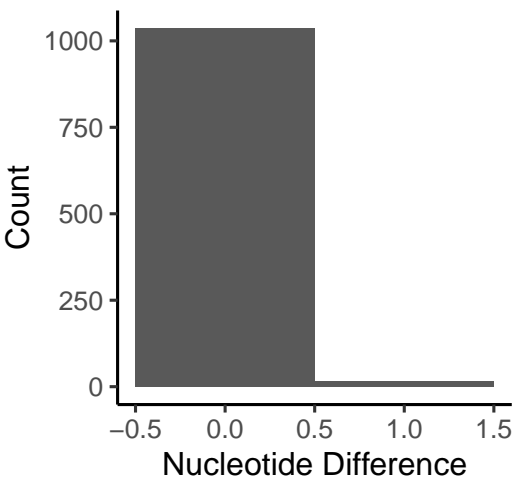
TRBV5-4*ap01

2265 sequences assigned
2241 (98.9%) exact matches, in which:
2196 unique CDR3
13 unique J



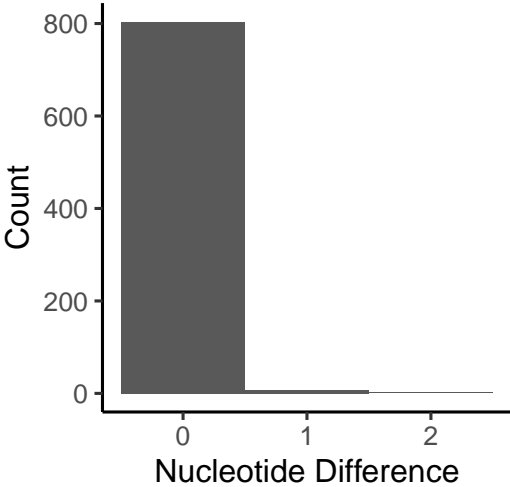
TRBV5-5*ap01

1053 sequences assigned
1036 (98.4%) exact matches, in which:
1013 unique CDR3
13 unique J



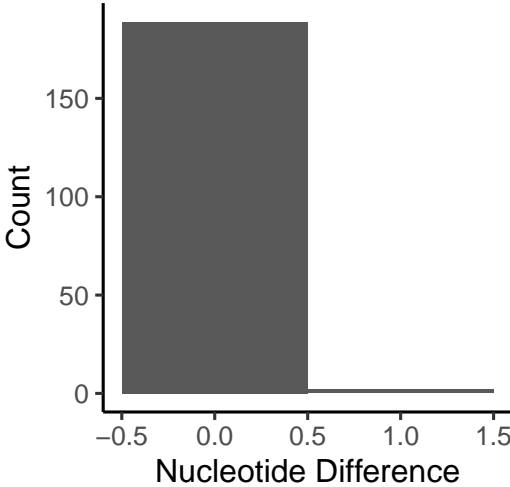
TRBV5-8*ap01

814 sequences assigned
804 (98.8%) exact matches, in which:
784 unique CDR3
13 unique J



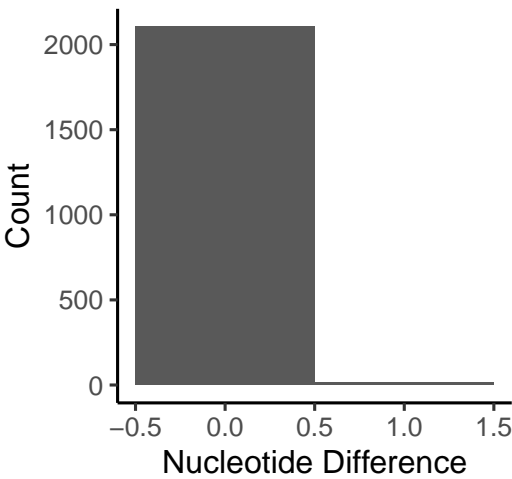
TRBV6-7*ap01

191 sequences assigned
189 (99%) exact matches, in which:
183 unique CDR3
13 unique J



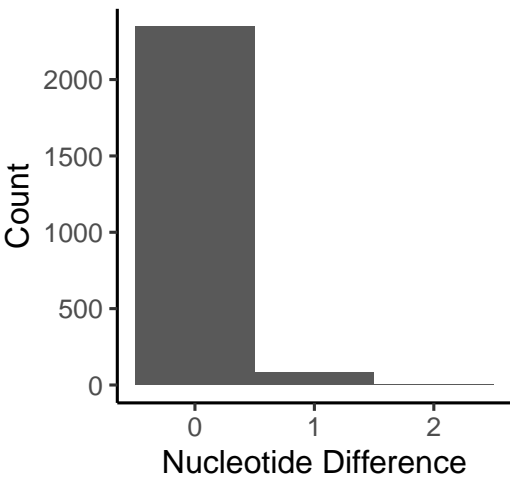
TRBV5-6*ap01

2121 sequences assigned
2105 (99.2%) exact matches, in which:
2063 unique CDR3
13 unique J



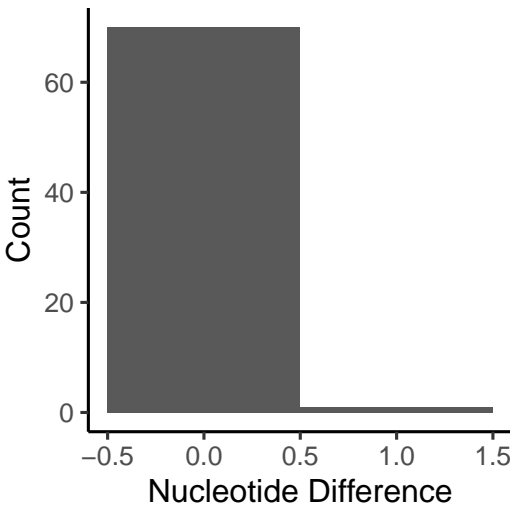
TRBV6-1*ap01

2433 sequences assigned
2346 (96.4%) exact matches, in which:
2295 unique CDR3
13 unique J



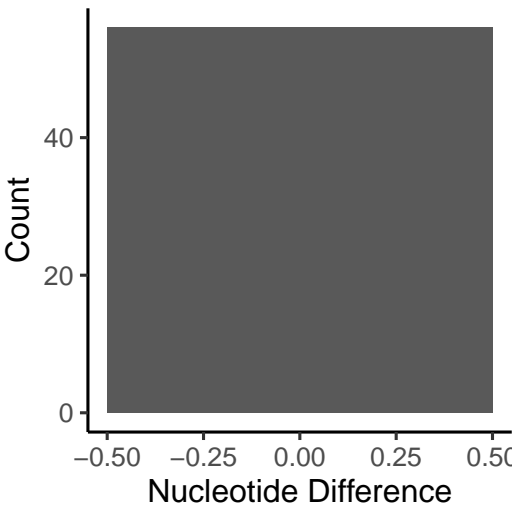
TRBV6-8*ap01

71 sequences assigned
70 (98.6%) exact matches, in which:
70 unique CDR3
11 unique J



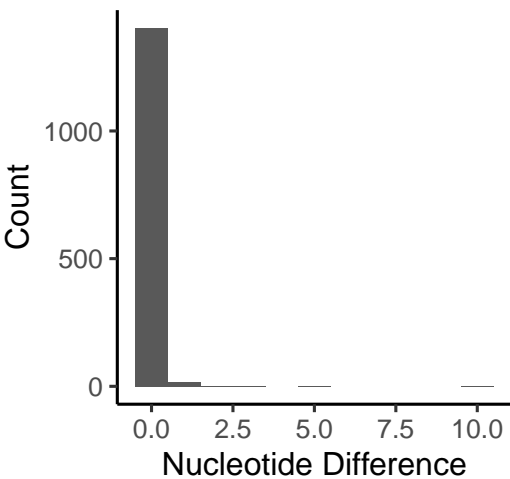
TRBV5-7*ap01

56 sequences assigned
56 (100%) exact matches, in which:
56 unique CDR3
12 unique J



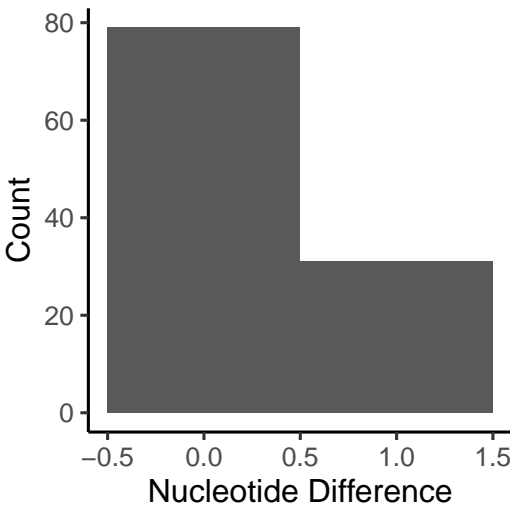
TRBV6-4*ap01

1425 sequences assigned
1403 (98.5%) exact matches, in which:
1372 unique CDR3
13 unique J



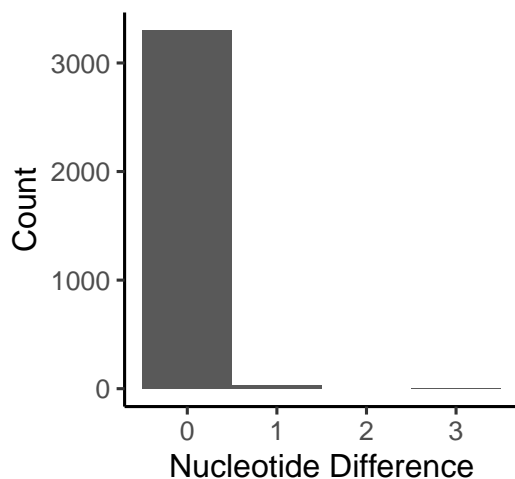
TRBV6-9*ap01

110 sequences assigned
79 (71.8%) exact matches, in which:
79 unique CDR3
13 unique J



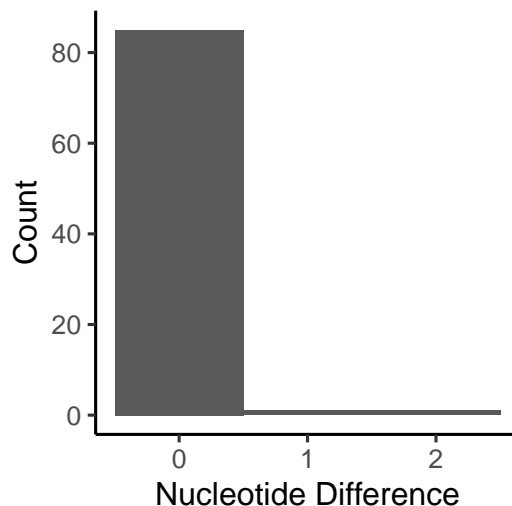
TRBV6–23*ap01

3330 sequences assigned
3300 (99.1%) exact matches, in which:
3229 unique CDR3
13 unique J



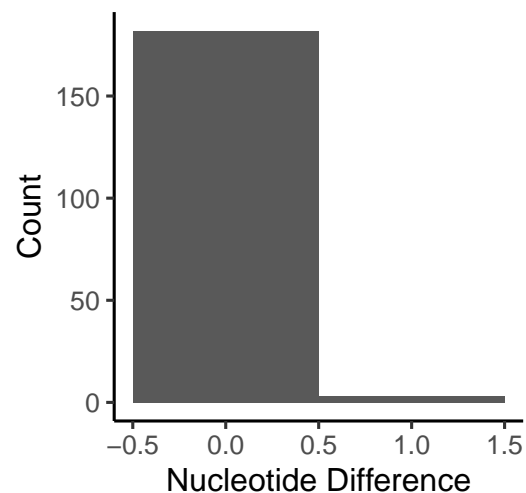
TRBV7–1*ap01_G291C_T

87 sequences assigned
85 (97.7%) exact matches, in which:
82 unique CDR3
13 unique J



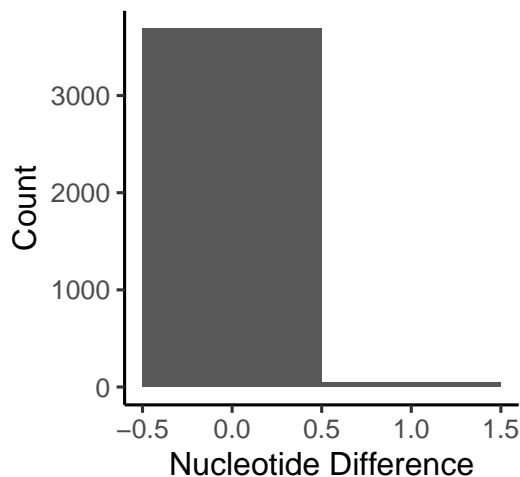
TRBV7–4*ap01

185 sequences assigned
182 (98.4%) exact matches, in which:
176 unique CDR3
13 unique J



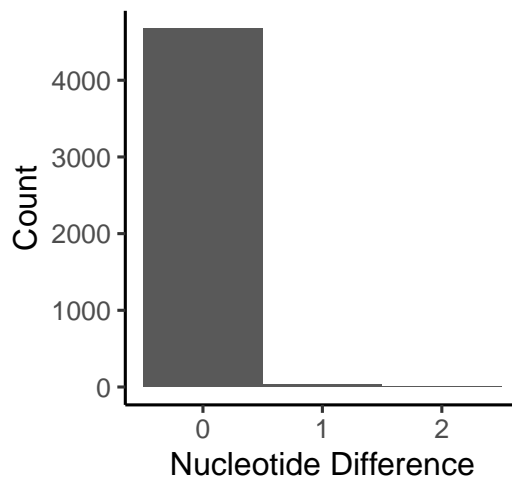
TRBV6–56*ap01

3737 sequences assigned
3688 (98.7%) exact matches, in which:
3607 unique CDR3
13 unique J



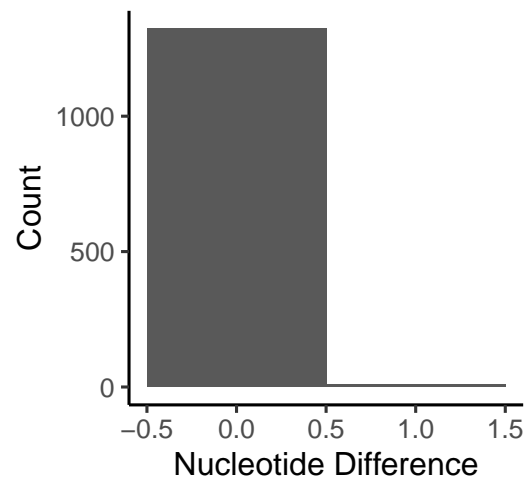
TRBV7–2*ap01

4710 sequences assigned
4672 (99.2%) exact matches, in which:
4550 unique CDR3
13 unique J



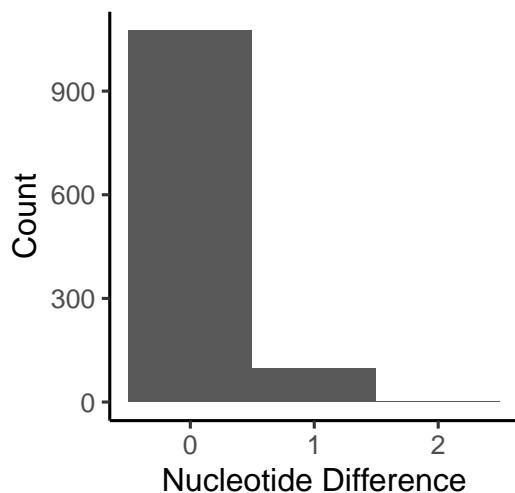
TRBV7–6*ap01

1333 sequences assigned
1323 (99.2%) exact matches, in which:
1293 unique CDR3
13 unique J



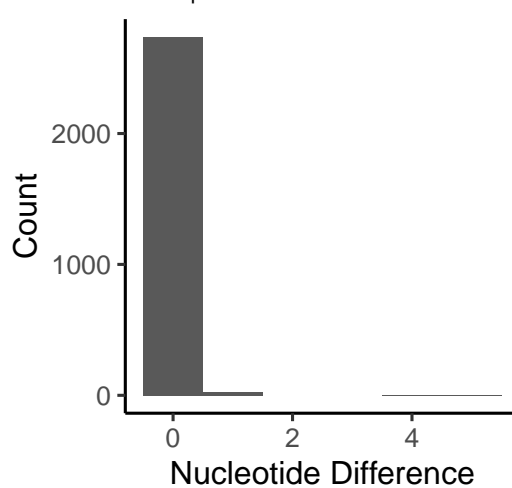
TRBV6–56*ap02

1176 sequences assigned
1076 (91.5%) exact matches, in which:
1054 unique CDR3
13 unique J



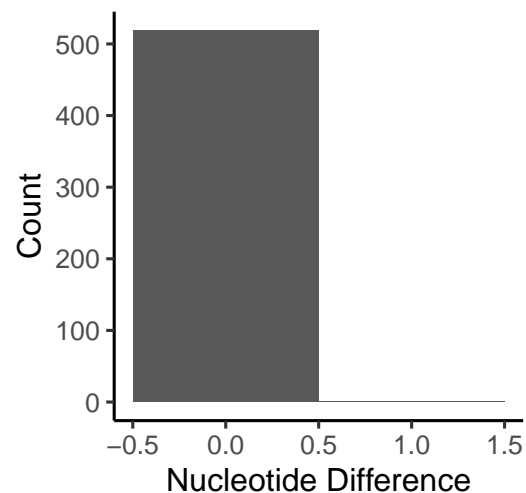
TRBV7–3*ap01

2763 sequences assigned
2737 (99.1%) exact matches, in which:
2686 unique CDR3
13 unique J



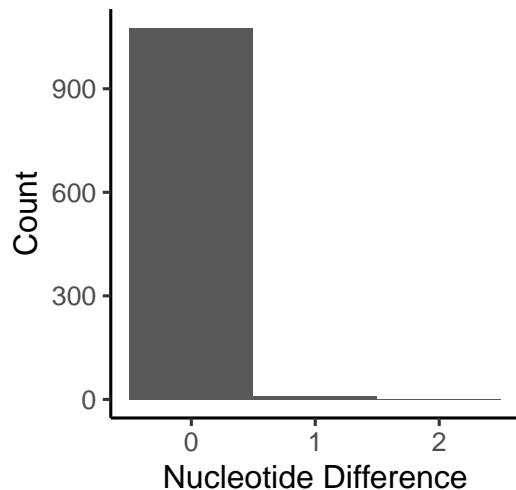
TRBV7–7*ap01_C315T

520 sequences assigned
519 (99.8%) exact matches, in which:
509 unique CDR3
13 unique J



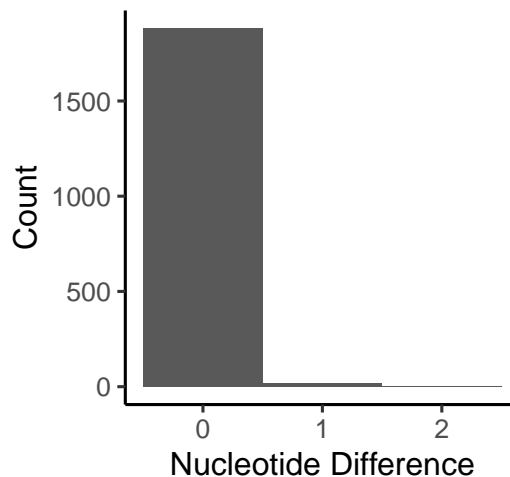
TRBV7-8*ap01

1087 sequences assigned
1077 (99.1%) exact matches, in which:
1055 unique CDR3
13 unique J



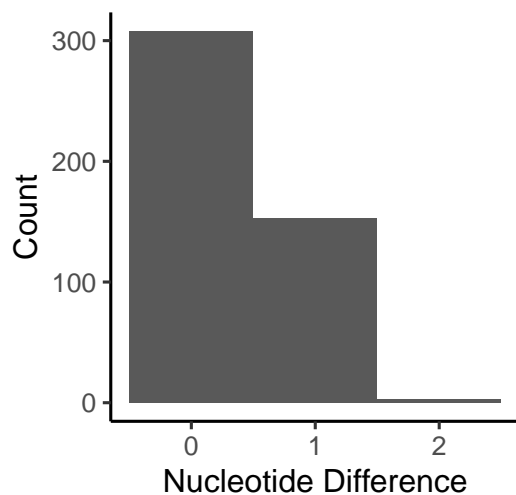
TRBV29-1*ap01

1898 sequences assigned
1881 (99.1%) exact matches, in which:
1851 unique CDR3
13 unique J



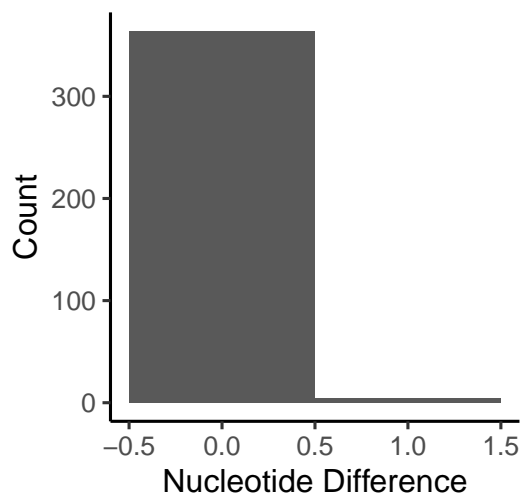
TRBV7-8*ap03

464 sequences assigned
308 (66.4%) exact matches, in which:
300 unique CDR3
13 unique J



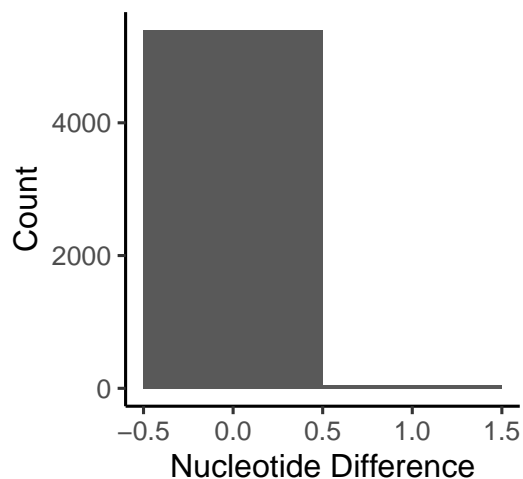
TRBV29-1*ap02

368 sequences assigned
364 (98.9%) exact matches, in which:
361 unique CDR3
13 unique J

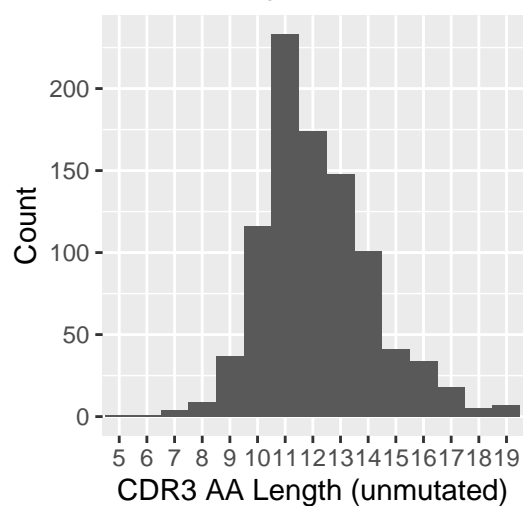


TRBV7-9*ap01

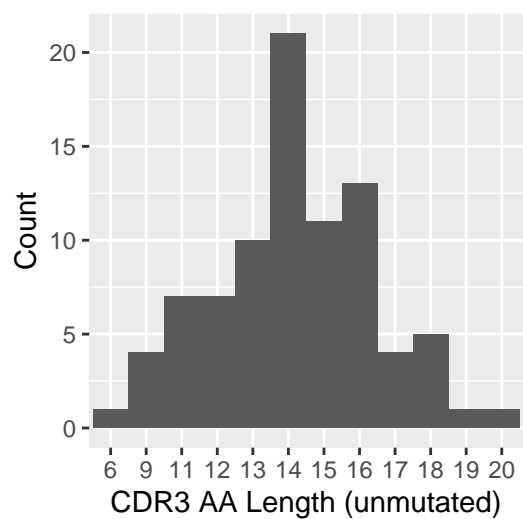
5445 sequences assigned
5397 (99.1%) exact matches, in which:
5307 unique CDR3
13 unique J



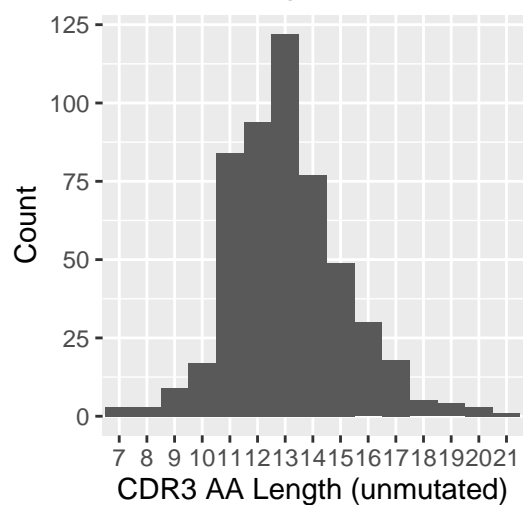
TRBV30*ap01_G298A



TRBV7-1*ap01_G291C_T296C



TRBV7-7*ap01_C315T





[illegible]