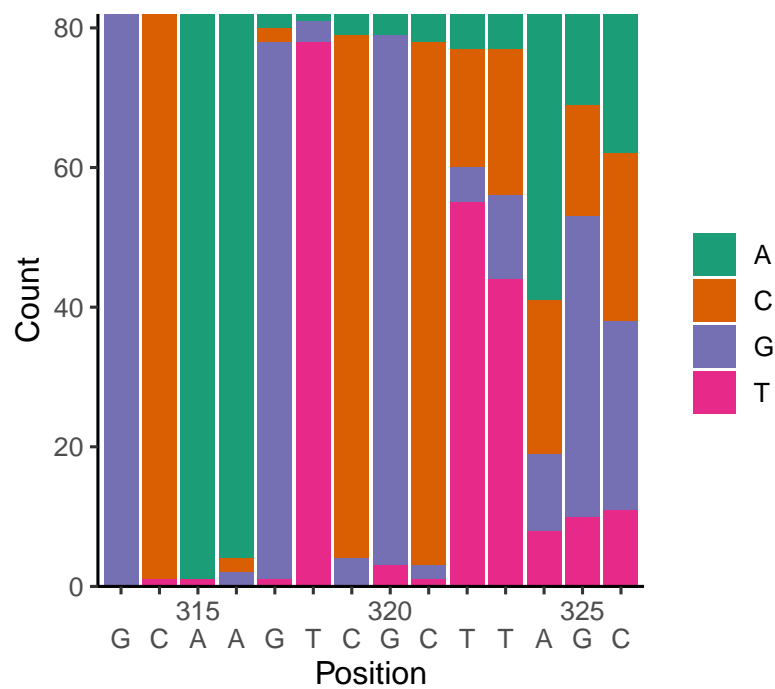
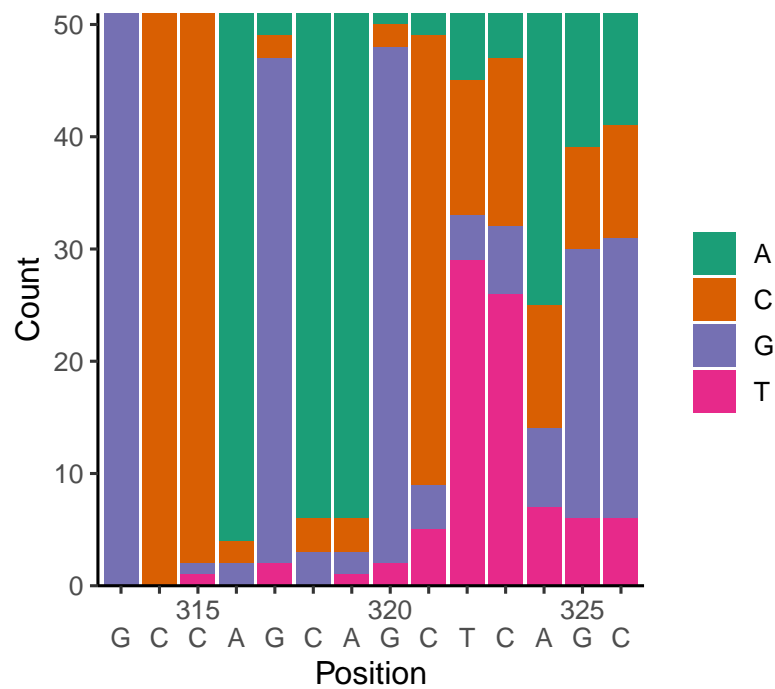


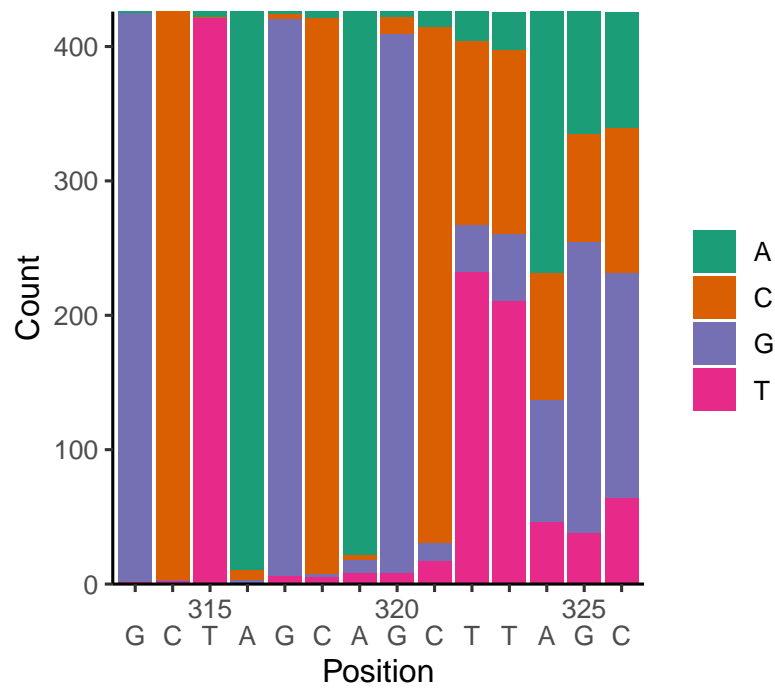
Gene TRBV12-2*ap01_G301A



Gene TRBV7-1*ap01_G291C_T296C



Gene TRBV7-7*ap01_C315T



Gene TRBV12-2*ap01_G301A



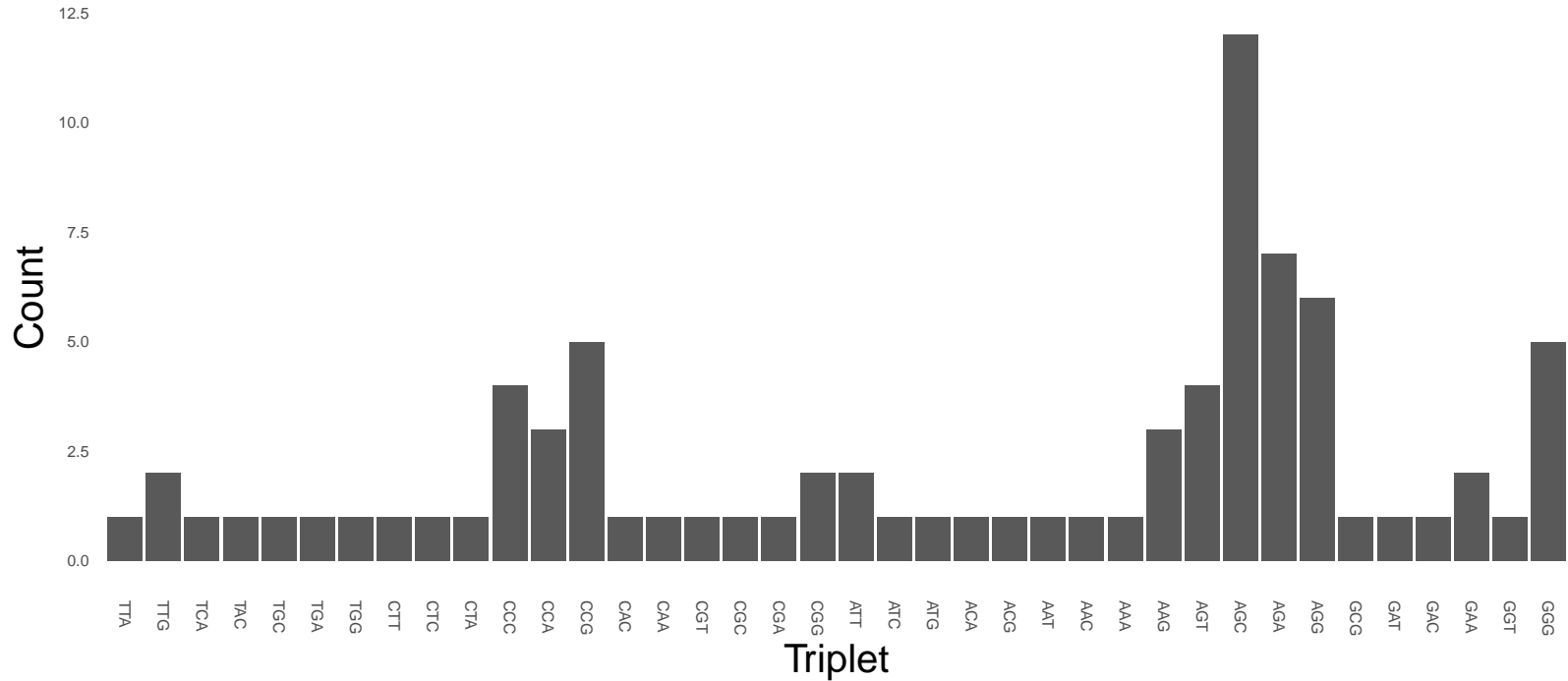
Gene TRBV7-1*ap01_G291C_T296C



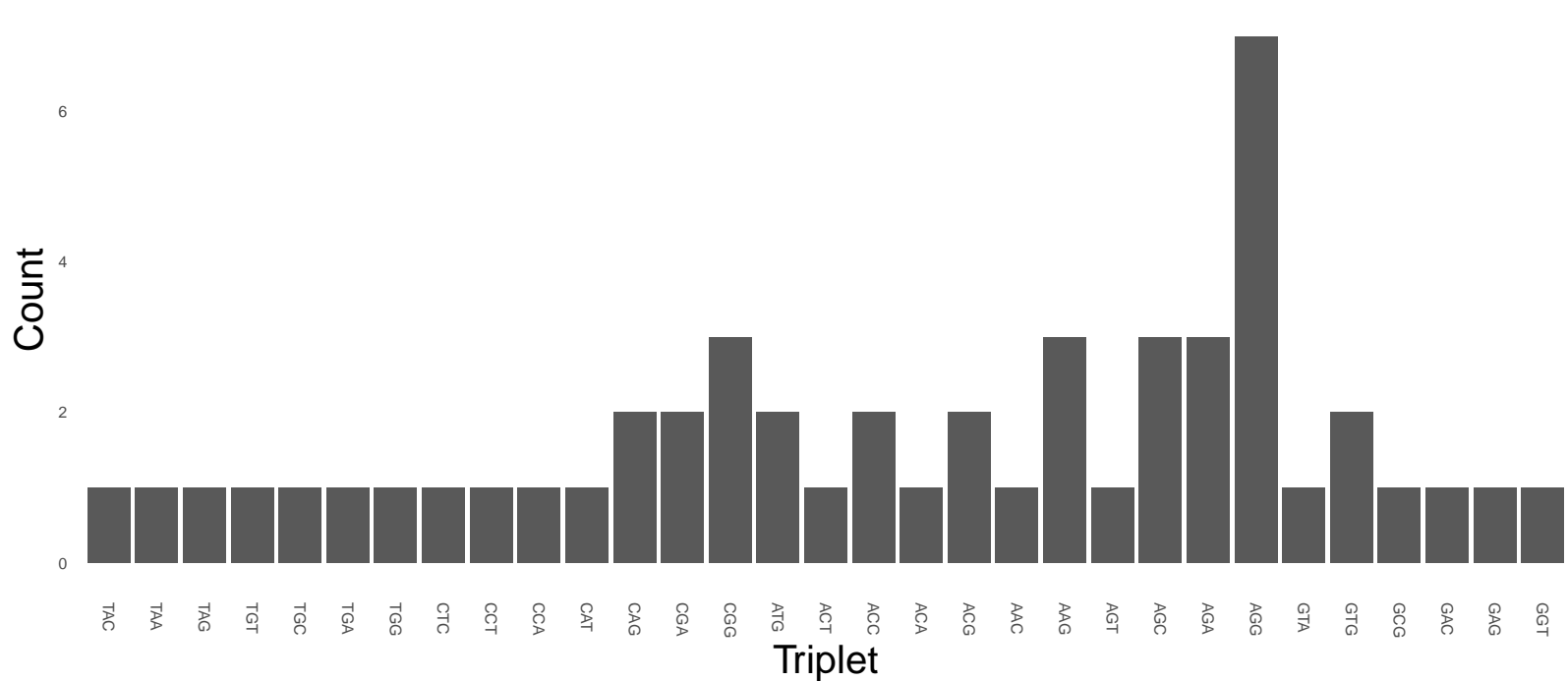
Gene TRBV7-7*ap01_C315T



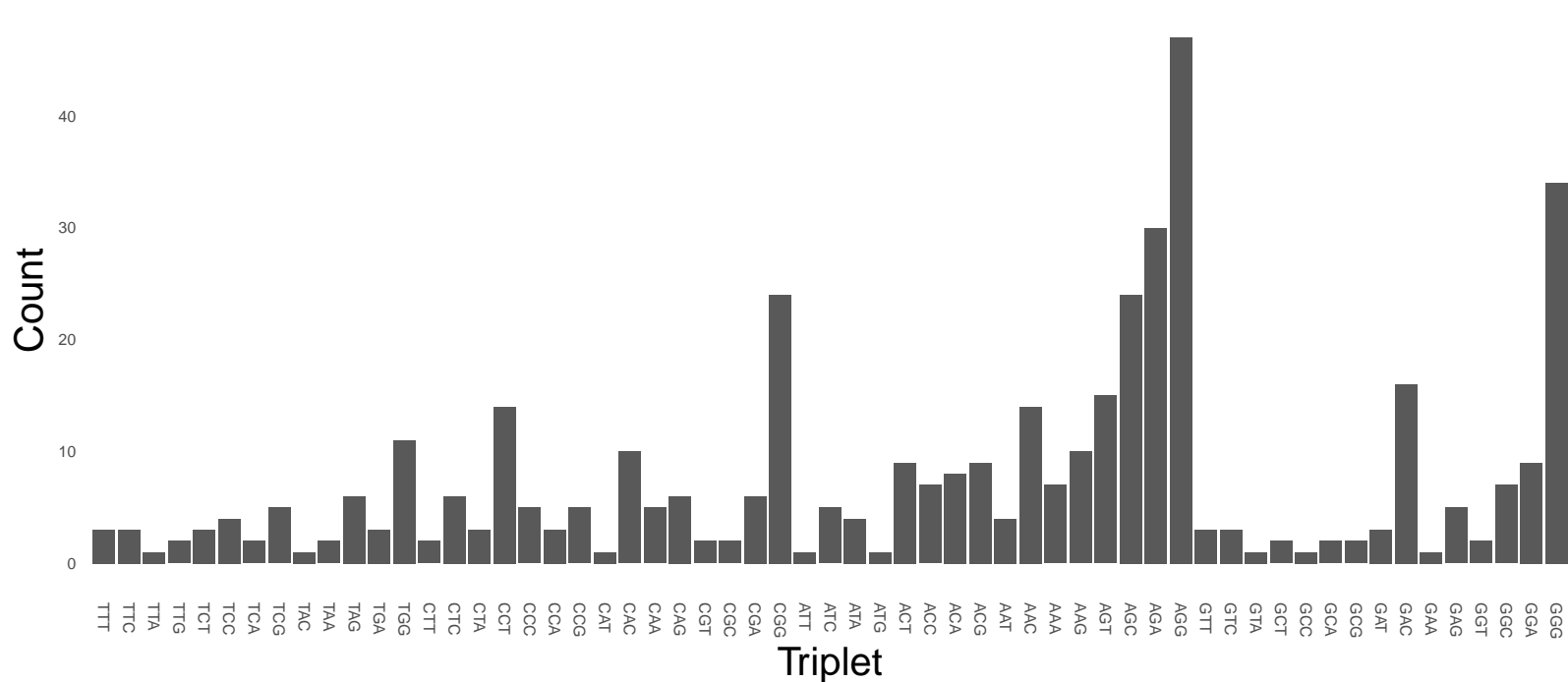
TRBV12-2*ap01_G301A- Final 3 nucleotides as a triplet



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

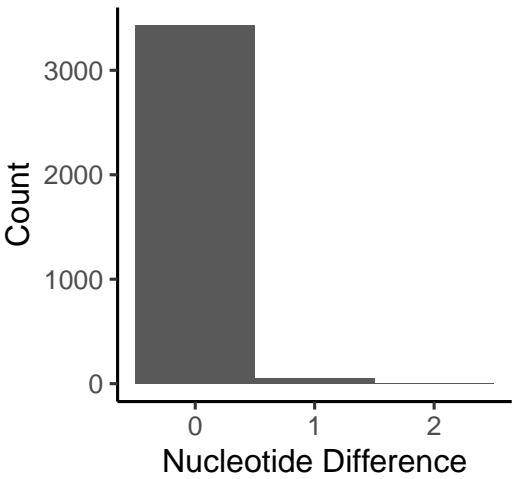


TRBV7-7*ap01_C315T- Final 3 nucleotides as a triplet



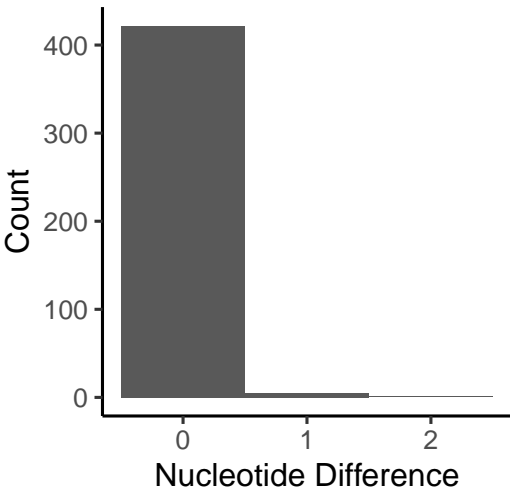
TRBV20-1*ap01

3481 sequences assigned
3430 (98.5%) exact matches, in which:
3368 unique CDR3
13 unique J



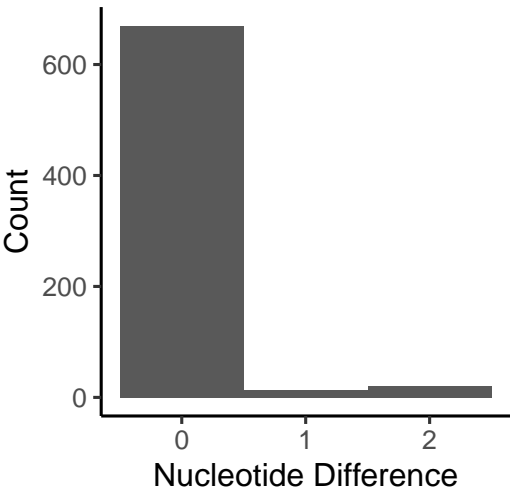
TRBV10-2*ap01

428 sequences assigned
422 (98.6%) exact matches, in which:
415 unique CDR3
13 unique J



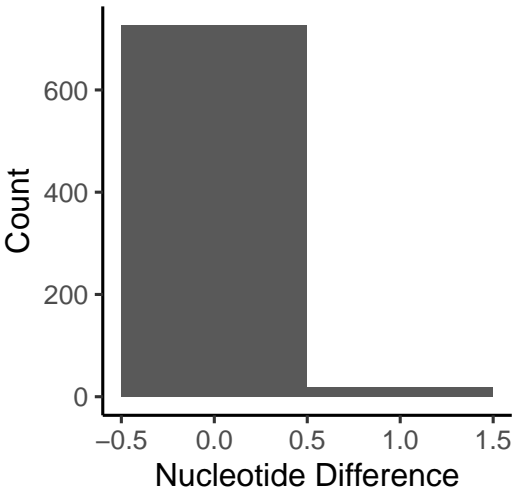
TRBV13*ap01

703 sequences assigned
670 (95.3%) exact matches, in which:
656 unique CDR3
13 unique J



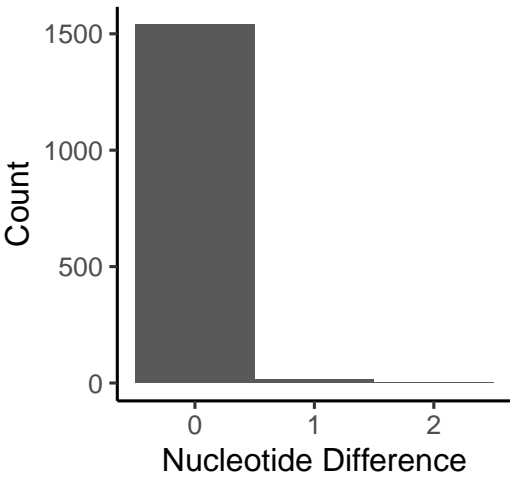
TRBV10-1*ap01

745 sequences assigned
727 (97.6%) exact matches, in which:
716 unique CDR3
13 unique J



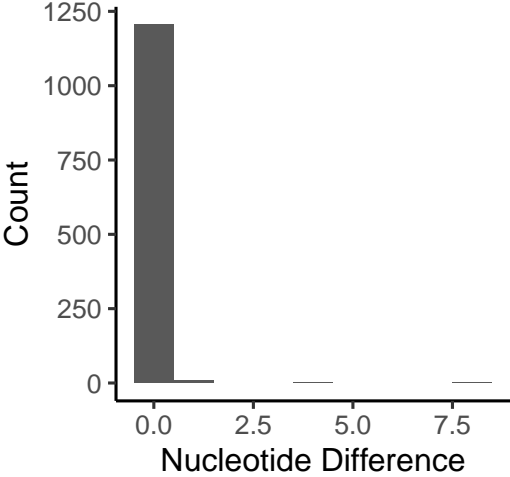
TRBV10-3*ap01

1556 sequences assigned
1539 (98.9%) exact matches, in which:
1515 unique CDR3
13 unique J



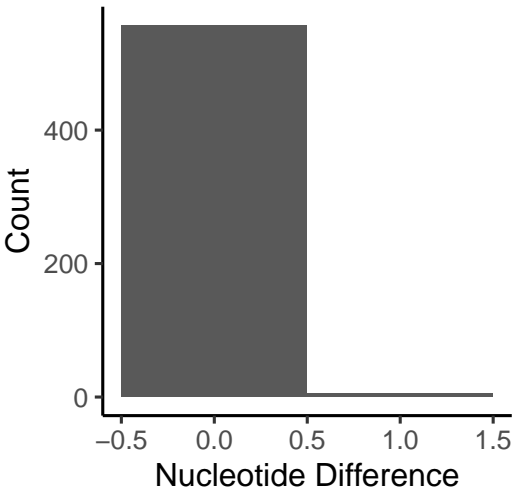
TRBV14*ap01

1214 sequences assigned
1205 (99.3%) exact matches, in which:
1194 unique CDR3
13 unique J



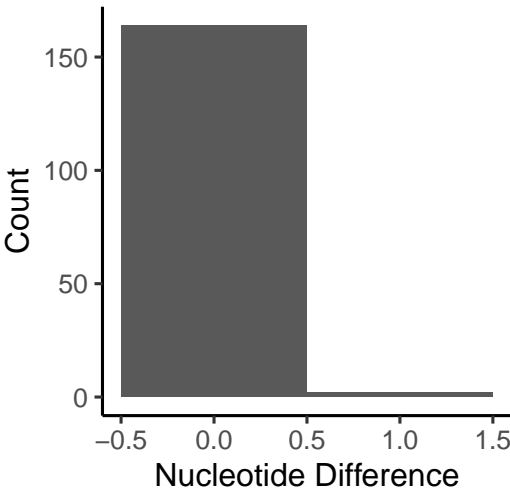
TRBV20-1*ap02

562 sequences assigned
557 (99.1%) exact matches, in which:
553 unique CDR3
13 unique J



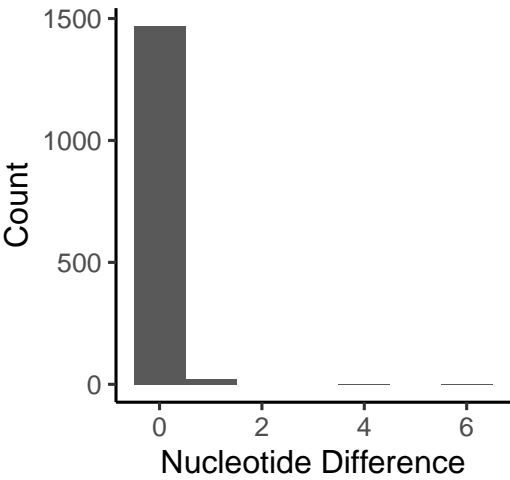
TRBV1*ap01

166 sequences assigned
164 (98.8%) exact matches, in which:
161 unique CDR3
13 unique J



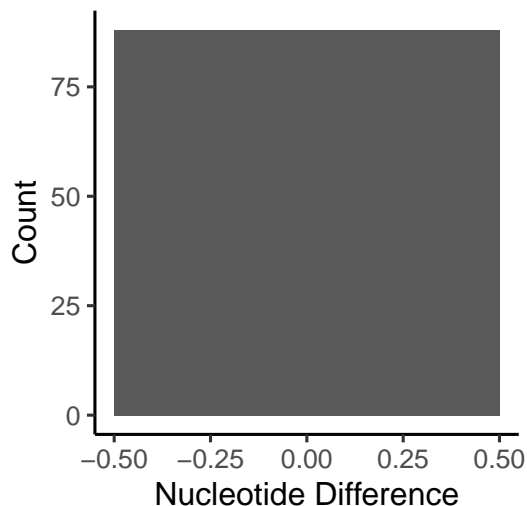
TRBV15*ap02

1494 sequences assigned
1469 (98.3%) exact matches, in which:
1448 unique CDR3
13 unique J



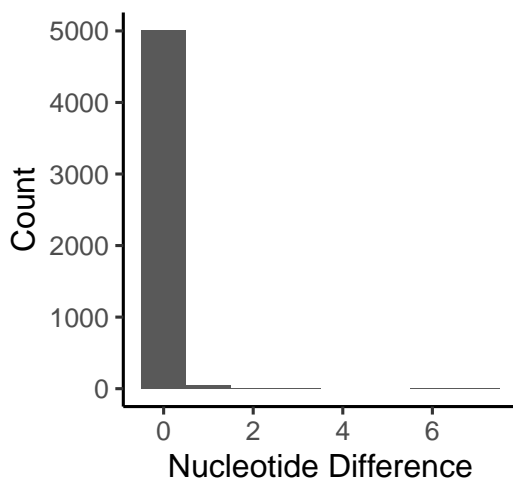
TRBV16*ap01

88 sequences assigned
88 (100%) exact matches, in which:
87 unique CDR3
12 unique J



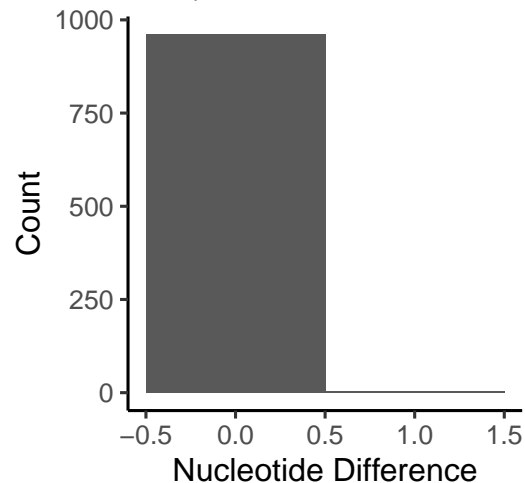
TRBV19*ap01

5058 sequences assigned
5007 (99%) exact matches, in which:
4968 unique CDR3
13 unique J



TRBV28*ap01

965 sequences assigned
961 (99.6%) exact matches, in which:
949 unique CDR3
13 unique J



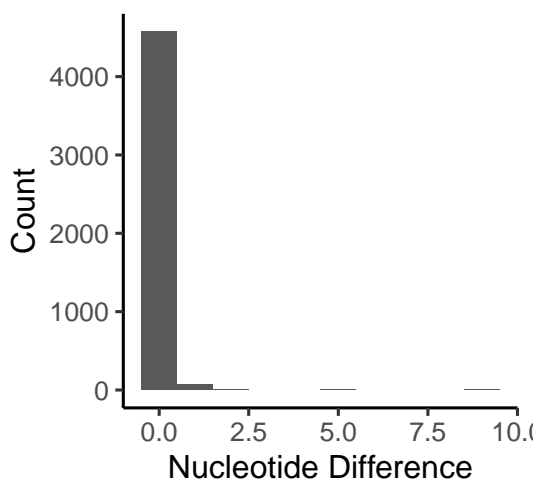
TRBV17*ap01

1 sequences assigned
No exact matches.



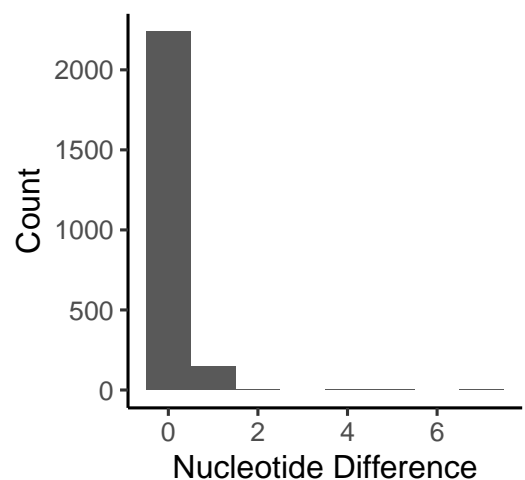
TRBV2*ap01

4644 sequences assigned
4573 (98.5%) exact matches, in which:
4493 unique CDR3
13 unique J



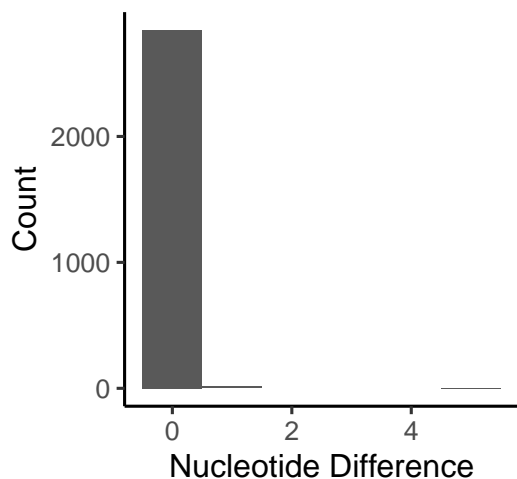
TRBV30*ap01

2393 sequences assigned
2238 (93.5%) exact matches, in which:
2185 unique CDR3
13 unique J



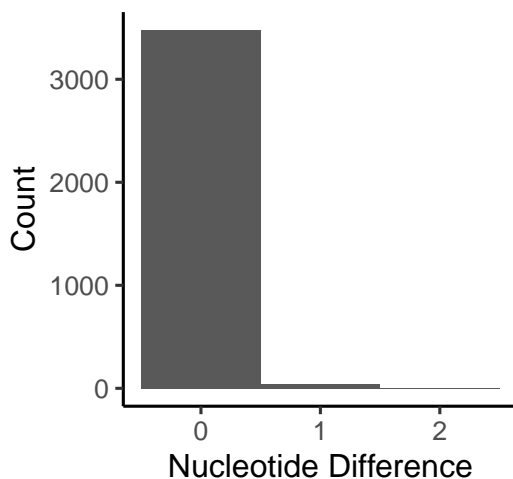
TRBV18*ap01

2860 sequences assigned
2845 (99.5%) exact matches, in which:
2831 unique CDR3
13 unique J



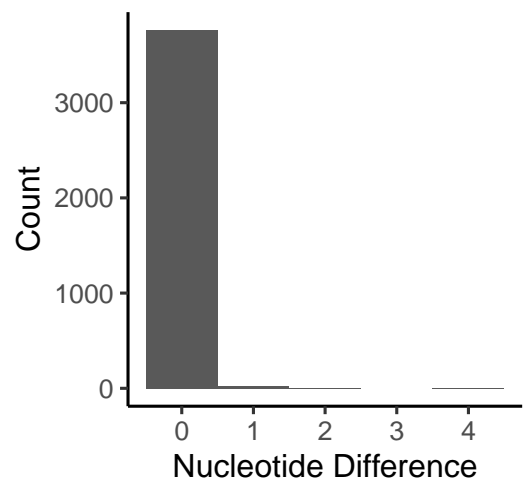
TRBV27*ap01

3519 sequences assigned
3478 (98.8%) exact matches, in which:
3416 unique CDR3
13 unique J



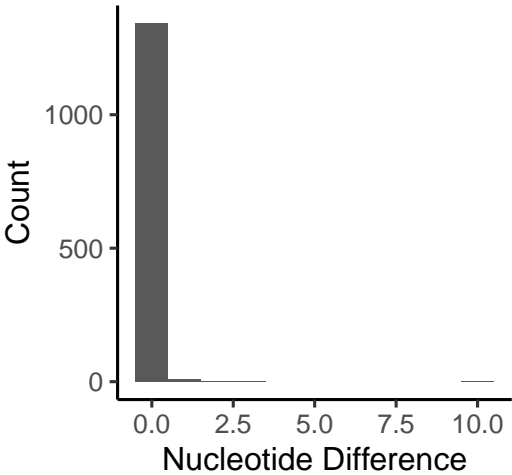
TRBV9*ap01

3792 sequences assigned
3763 (99.2%) exact matches, in which:
3712 unique CDR3
13 unique J



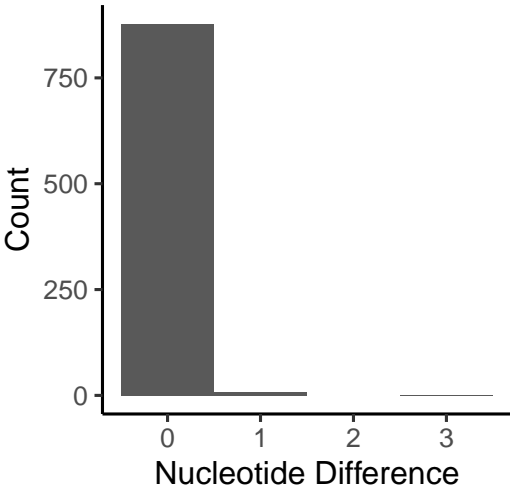
TRBV21-1*ap01

1357 sequences assigned
1342 (98.9%) exact matches, in which:
1336 unique CDR3
13 unique J



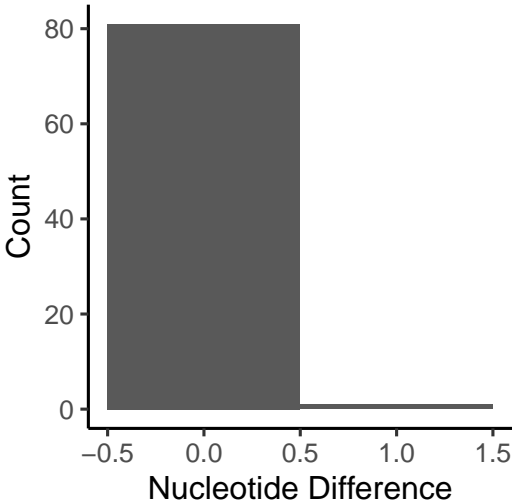
TRBV11-3*ap01

887 sequences assigned
878 (99%) exact matches, in which:
861 unique CDR3
13 unique J



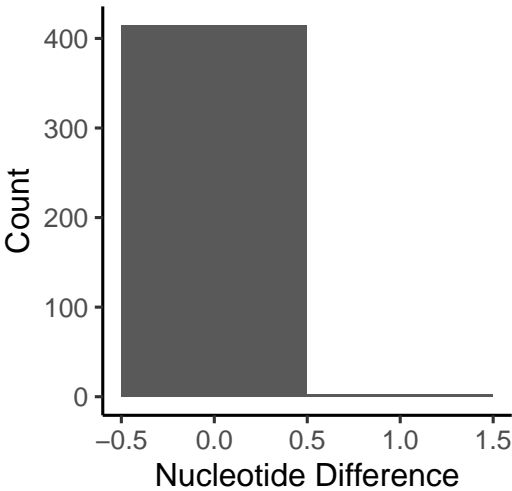
TRBV12-2*ap01_G301A

82 sequences assigned
81 (98.8%) exact matches, in which:
81 unique CDR3
13 unique J



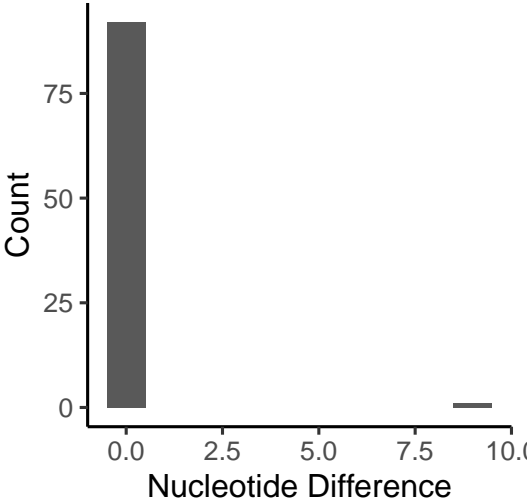
TRBV11-1*ap01

418 sequences assigned
415 (99.3%) exact matches, in which:
412 unique CDR3
13 unique J



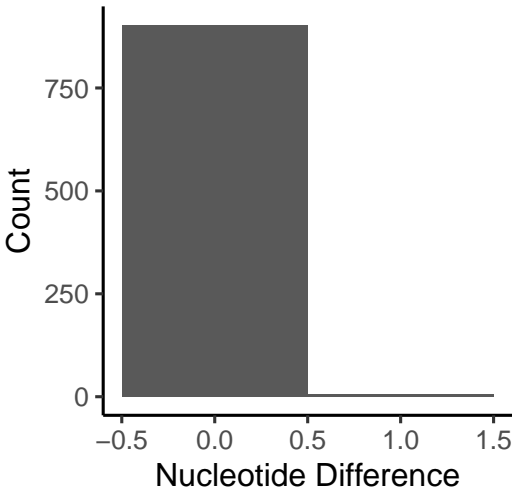
TRBV12-1*ap01

93 sequences assigned
92 (98.9%) exact matches, in which:
92 unique CDR3
12 unique J



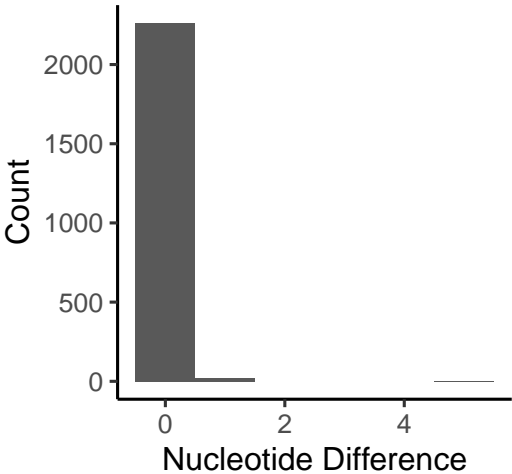
TRBV12-5*ap01

910 sequences assigned
903 (99.2%) exact matches, in which:
897 unique CDR3
13 unique J



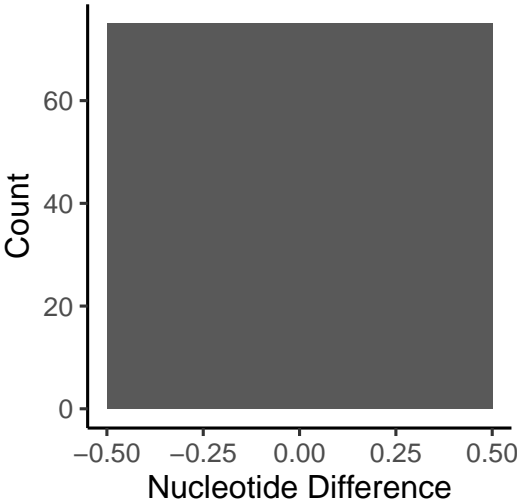
TRBV11-2*ap01

2282 sequences assigned
2262 (99.1%) exact matches, in which:
2234 unique CDR3
13 unique J



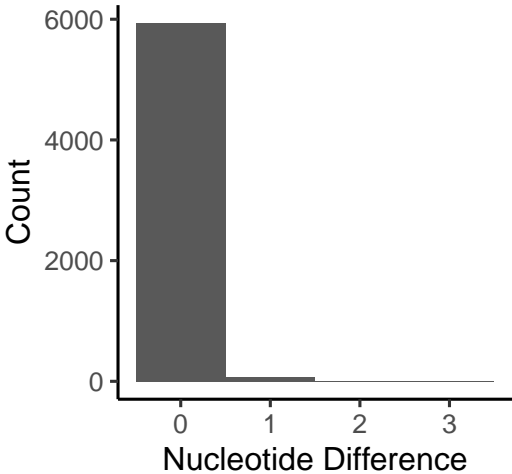
TRBV12-2*ap01

75 sequences assigned
75 (100%) exact matches, in which:
75 unique CDR3
13 unique J



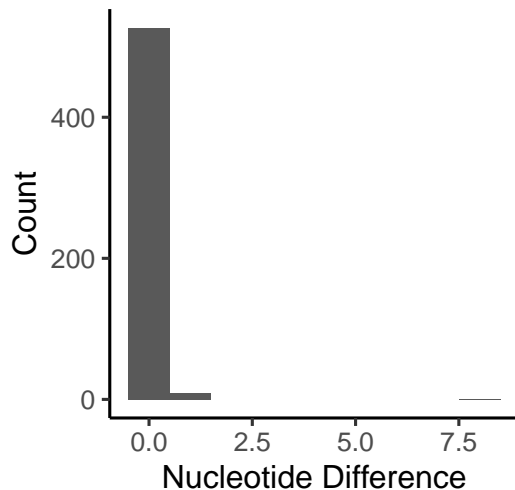
TRBV12-34*ap01

6008 sequences assigned
5937 (98.8%) exact matches, in which:
5846 unique CDR3
13 unique J



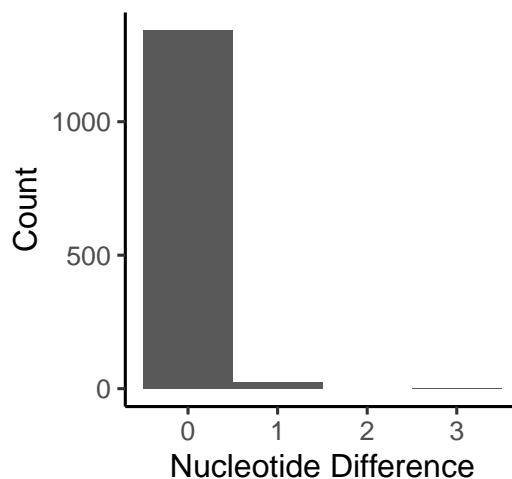
TRBV23–1*ap01

537 sequences assigned
527 (98.1%) exact matches, in which:
519 unique CDR3
13 unique J



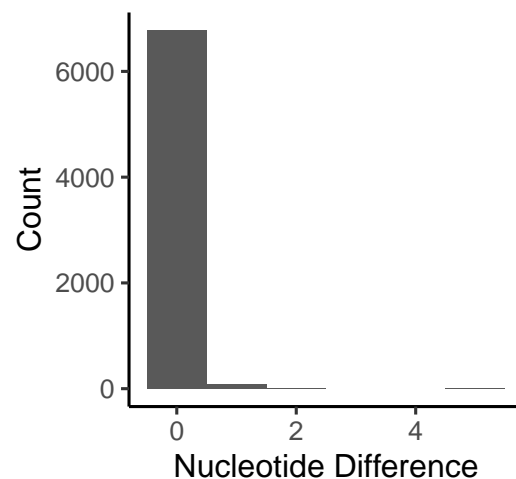
TRBV24–1*ap01

1366 sequences assigned
1342 (98.2%) exact matches, in which:
1310 unique CDR3
13 unique J



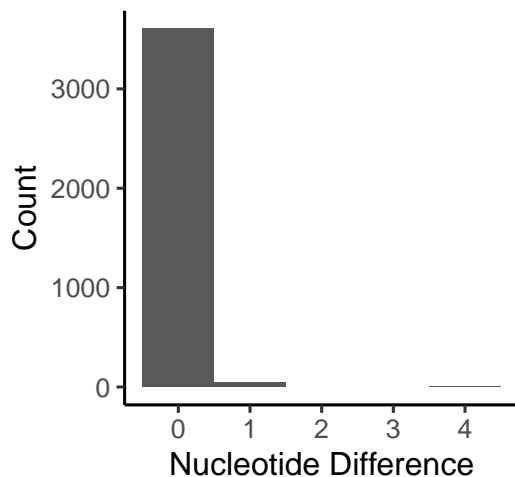
TRBV5–1*ap01

6854 sequences assigned
6775 (98.8%) exact matches, in which:
6601 unique CDR3
13 unique J



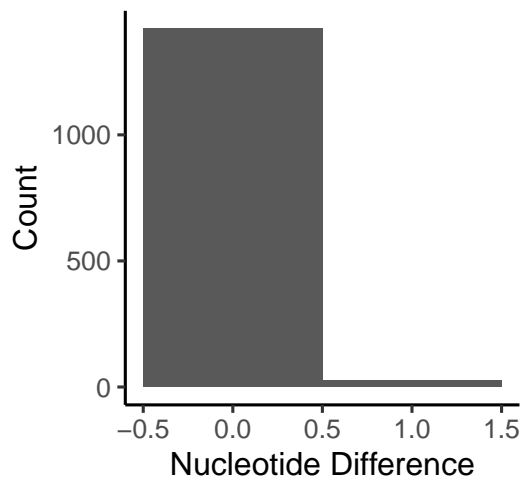
TRBV3–12*ap01

3650 sequences assigned
3605 (98.8%) exact matches, in which:
3543 unique CDR3
13 unique J



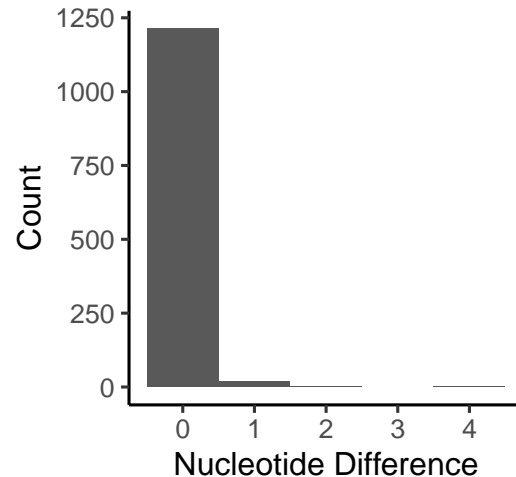
TRBV4–2*ap01

1447 sequences assigned
1421 (98.2%) exact matches, in which:
1390 unique CDR3
13 unique J



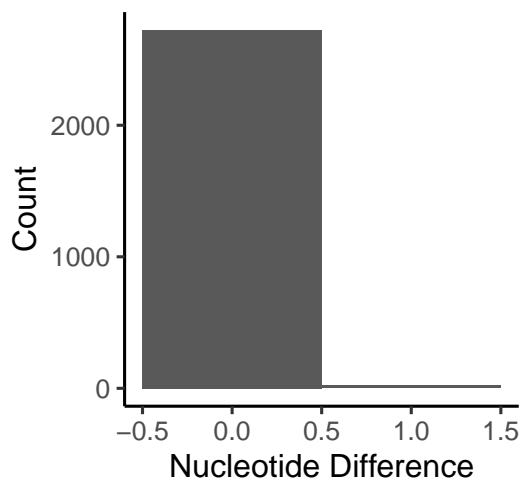
TRBV25–1*ap01

1234 sequences assigned
1213 (98.3%) exact matches, in which:
1182 unique CDR3
13 unique J



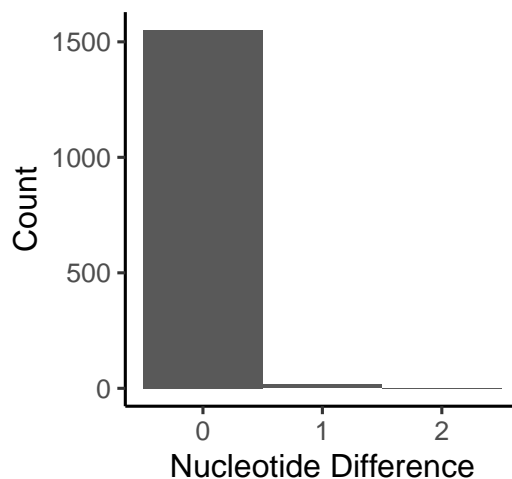
TRBV4–1*ap01

2746 sequences assigned
2724 (99.2%) exact matches, in which:
2648 unique CDR3
13 unique J



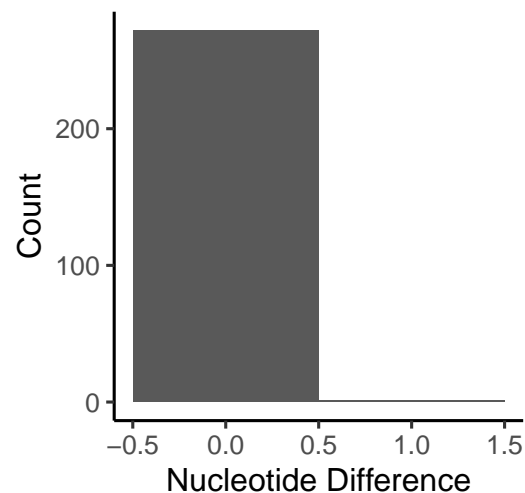
TRBV4–3*ap01

1570 sequences assigned
1551 (98.8%) exact matches, in which:
1518 unique CDR3
13 unique J



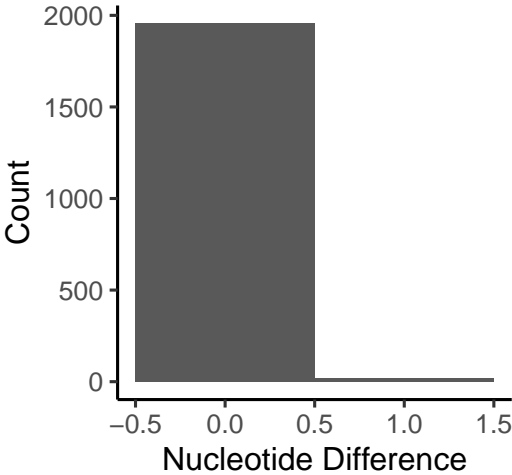
TRBV5–3*ap01

273 sequences assigned
272 (99.6%) exact matches, in which:
265 unique CDR3
13 unique J



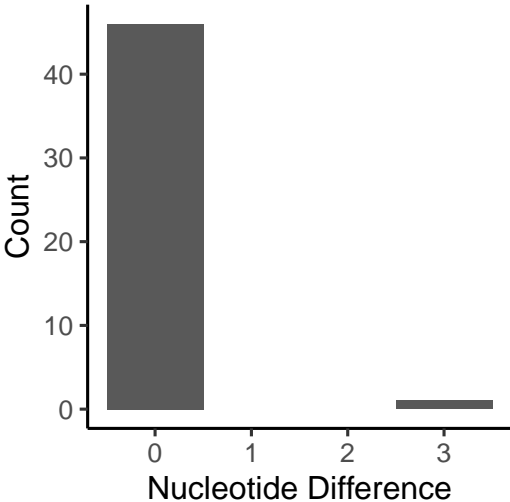
TRBV5-4*ap01

1977 sequences assigned
1956 (98.9%) exact matches, in which:
1920 unique CDR3
13 unique J



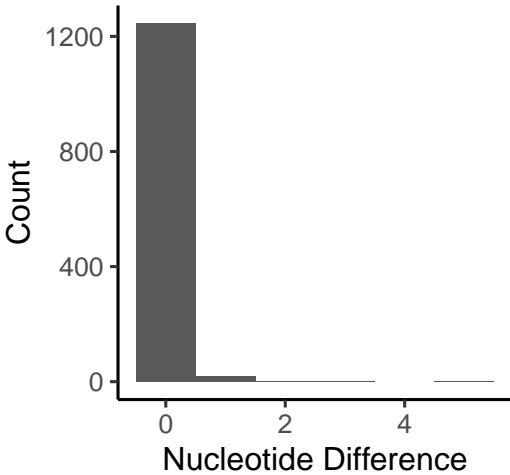
TRBV5-7*ap01

47 sequences assigned
46 (97.9%) exact matches, in which:
46 unique CDR3
13 unique J



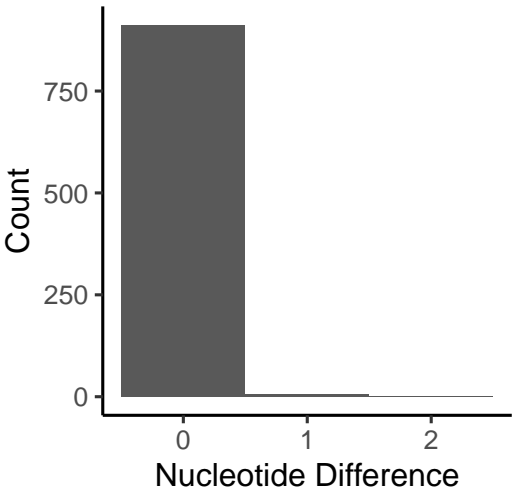
TRBV6-4*ap01

1266 sequences assigned
1245 (98.3%) exact matches, in which:
1230 unique CDR3
13 unique J



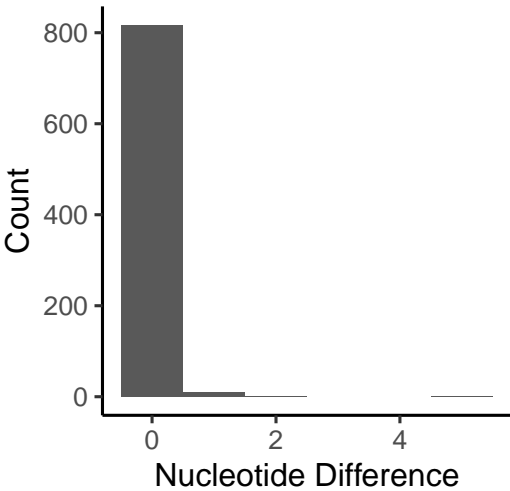
TRBV5-5*ap01

918 sequences assigned
912 (99.3%) exact matches, in which:
904 unique CDR3
13 unique J



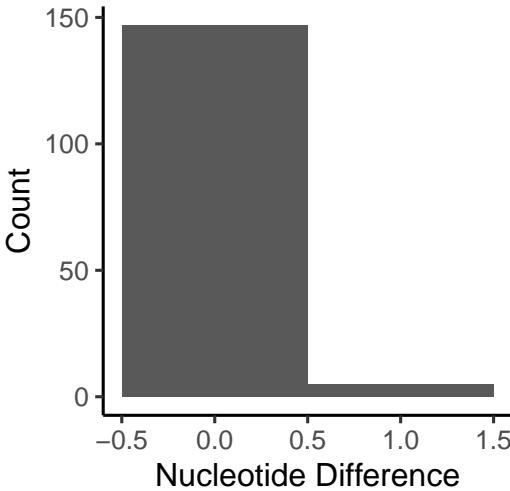
TRBV5-8*ap01

829 sequences assigned
817 (98.6%) exact matches, in which:
808 unique CDR3
13 unique J



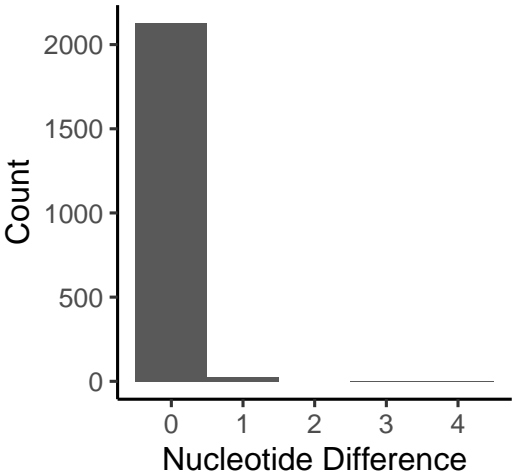
TRBV6-7*ap01

152 sequences assigned
147 (96.7%) exact matches, in which:
144 unique CDR3
13 unique J



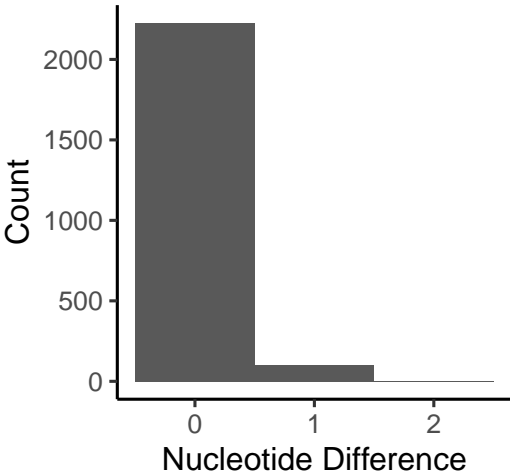
TRBV5-6*ap01

2156 sequences assigned
2128 (98.7%) exact matches, in which:
2076 unique CDR3
13 unique J



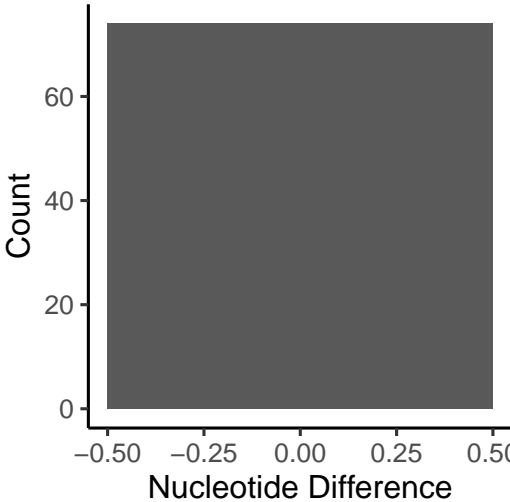
TRBV6-1*ap01

2330 sequences assigned
2226 (95.5%) exact matches, in which:
2174 unique CDR3
13 unique J



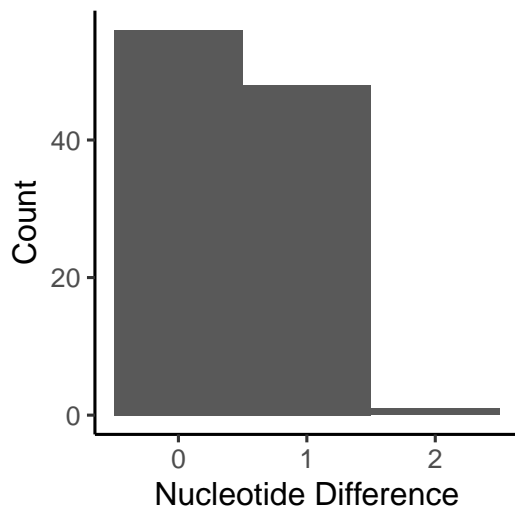
TRBV6-8*ap01

74 sequences assigned
74 (100%) exact matches, in which:
72 unique CDR3
12 unique J



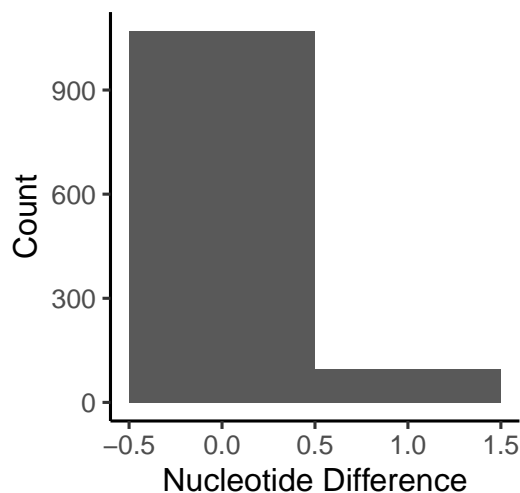
TRBV6–9*ap01

105 sequences assigned
56 (53.3%) exact matches, in which:
53 unique CDR3
12 unique J



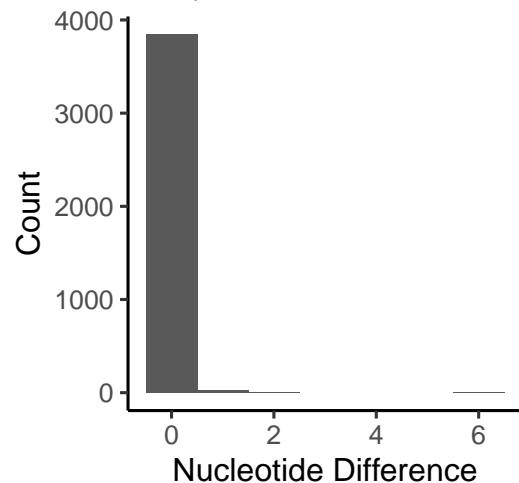
TRBV6–56*ap02

1168 sequences assigned
1071 (91.7%) exact matches, in which:
1045 unique CDR3
13 unique J



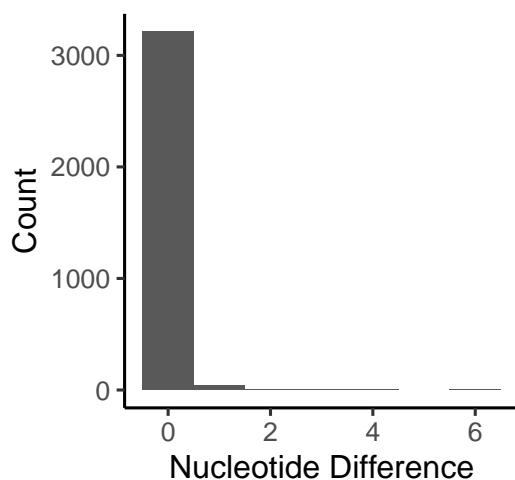
TRBV7–2*ap01

3877 sequences assigned
3845 (99.2%) exact matches, in which:
3798 unique CDR3
13 unique J



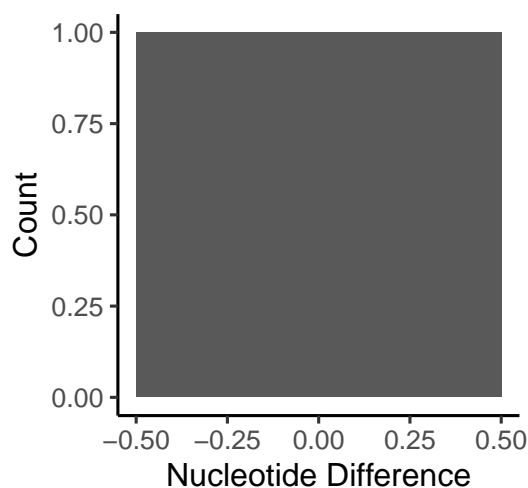
TRBV6–23*ap01

3259 sequences assigned
3212 (98.6%) exact matches, in which:
3146 unique CDR3
13 unique J



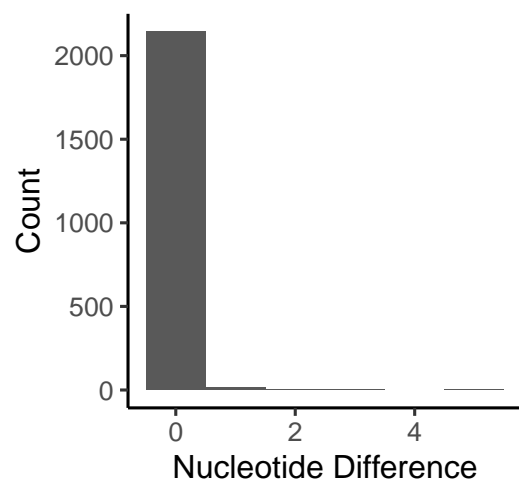
TRBV7–1*ap01

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



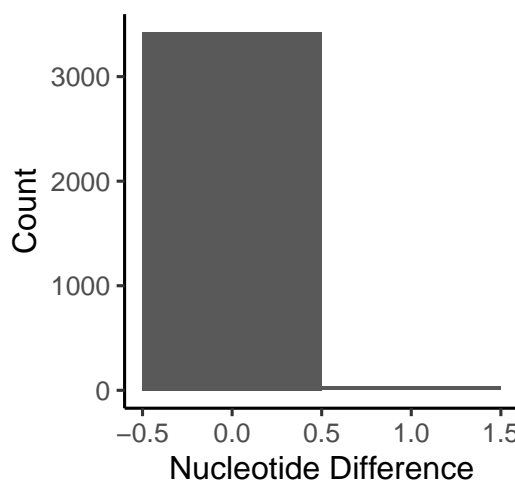
TRBV7–3*ap01

2159 sequences assigned
2143 (99.3%) exact matches, in which:
2120 unique CDR3
13 unique J



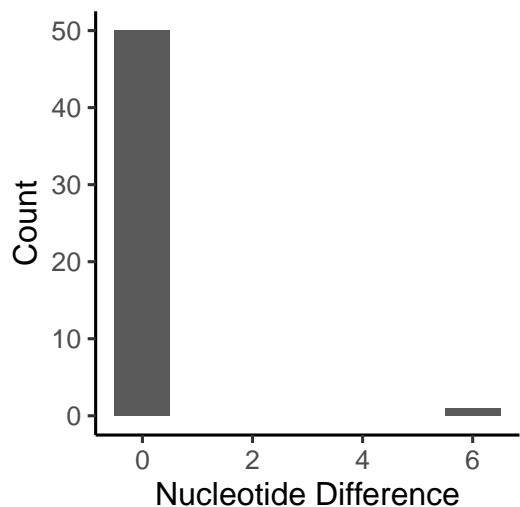
TRBV6–56*ap01

3464 sequences assigned
3426 (98.9%) exact matches, in which:
3364 unique CDR3
13 unique J



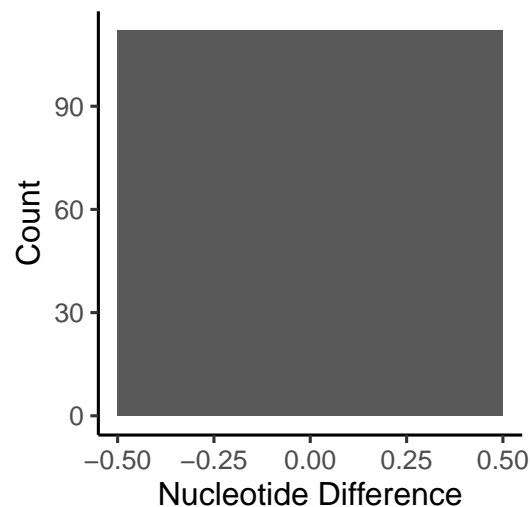
TRBV7–1*ap01_G291C_T

51 sequences assigned
50 (98%) exact matches, in which:
49 unique CDR3
11 unique J



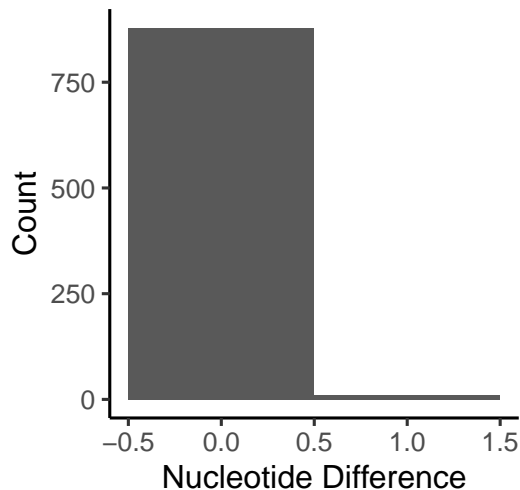
TRBV7–4*ap01

112 sequences assigned
112 (100%) exact matches, in which:
109 unique CDR3
13 unique J



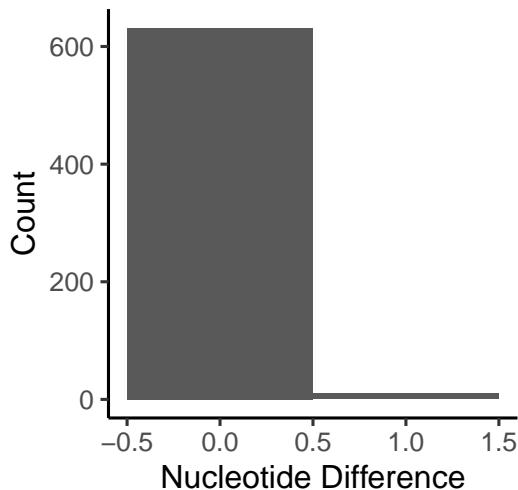
TRBV7-6*ap01

890 sequences assigned
879 (98.8%) exact matches, in which:
870 unique CDR3
13 unique J



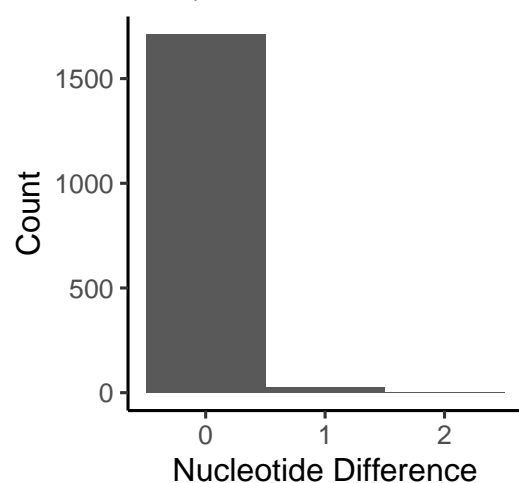
TRBV7-8*ap02

642 sequences assigned
632 (98.4%) exact matches, in which:
620 unique CDR3
13 unique J



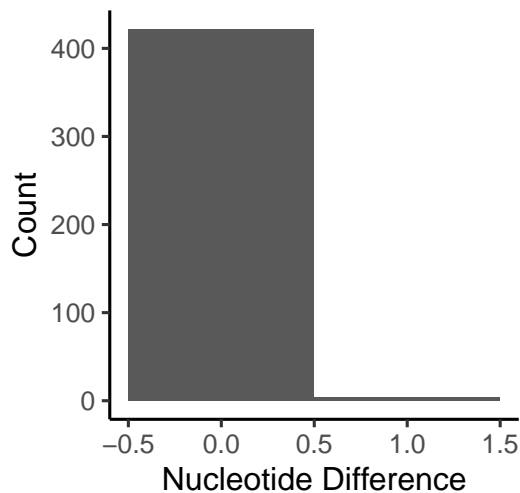
TRBV29-1*ap01

1741 sequences assigned
1711 (98.3%) exact matches, in which:
1667 unique CDR3
13 unique J



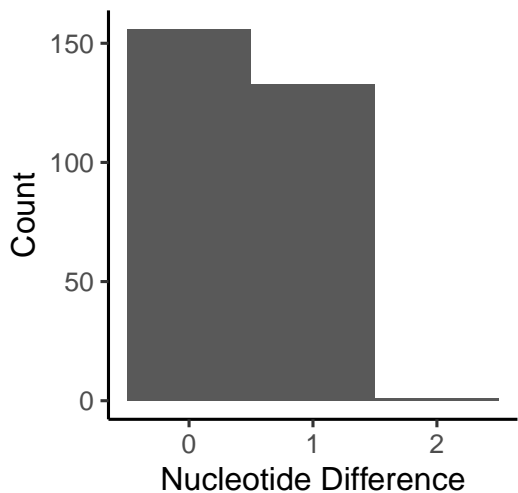
TRBV7-7*ap01_C315T

426 sequences assigned
422 (99.1%) exact matches, in which:
413 unique CDR3
13 unique J



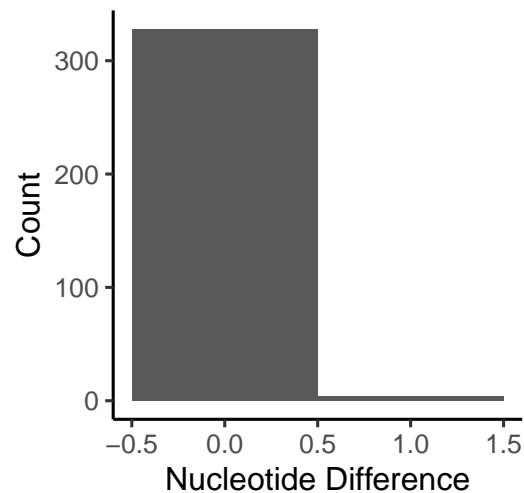
TRBV7-8*ap03

290 sequences assigned
156 (53.8%) exact matches, in which:
153 unique CDR3
13 unique J



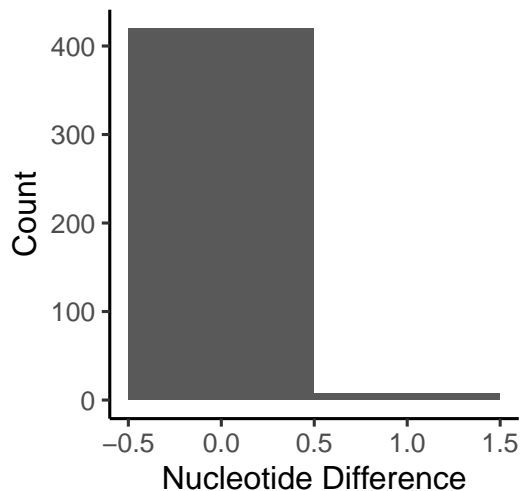
TRBV29-1*ap02

332 sequences assigned
328 (98.8%) exact matches, in which:
325 unique CDR3
13 unique J



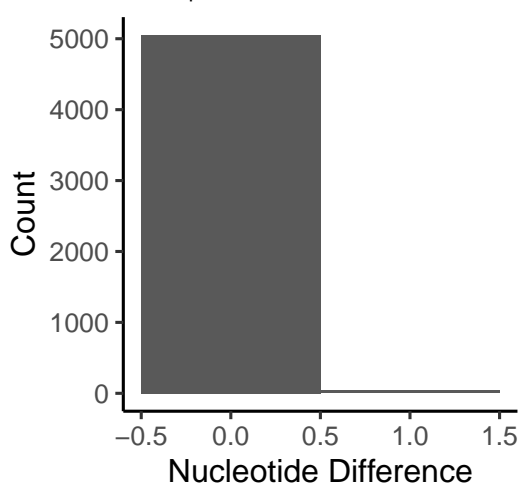
TRBV7-8*ap01

427 sequences assigned
420 (98.4%) exact matches, in which:
411 unique CDR3
13 unique J

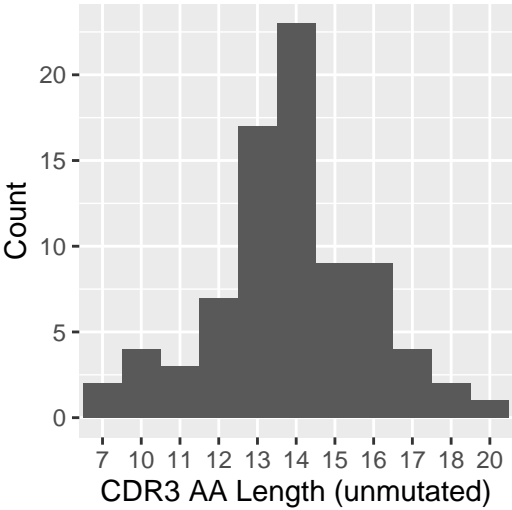


TRBV7-9*ap01

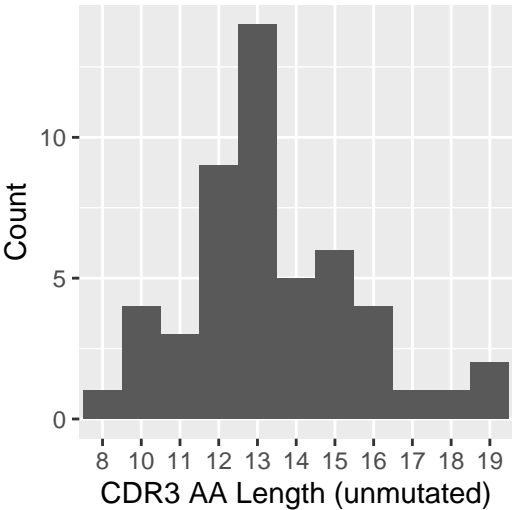
5093 sequences assigned
5052 (99.2%) exact matches, in which:
4981 unique CDR3
13 unique J



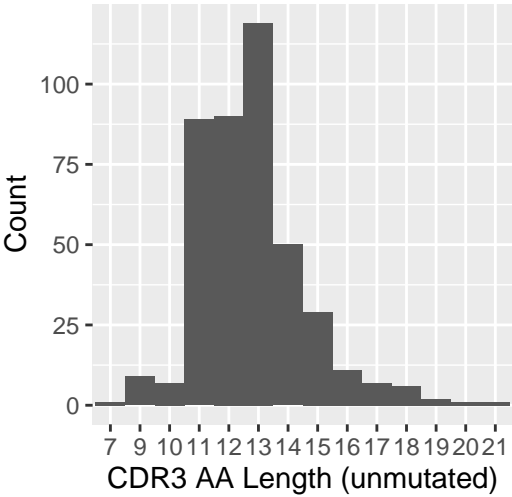
TRBV12-2*ap01_G301A



TRBV7-1*ap01_G291C_T296C



TRBV7-7*ap01_C315T





[illegible]