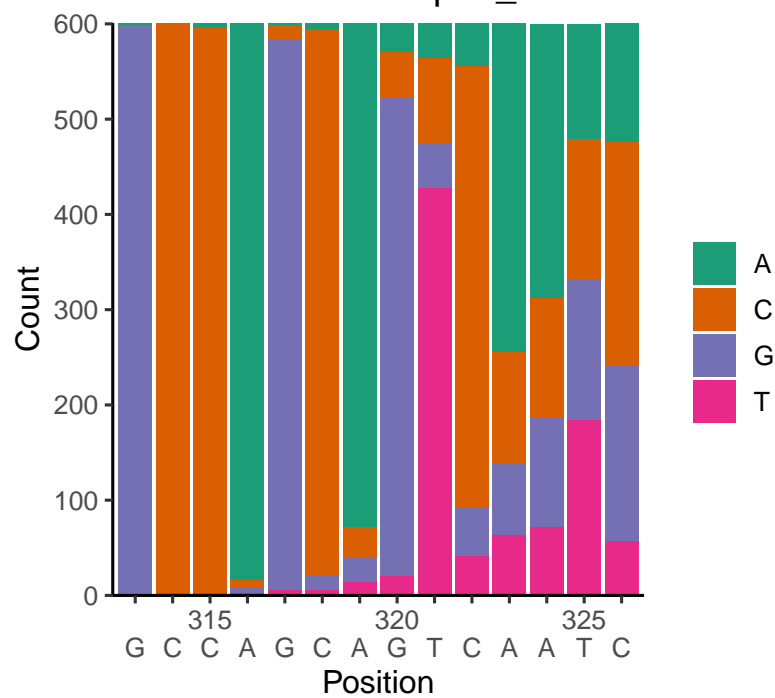
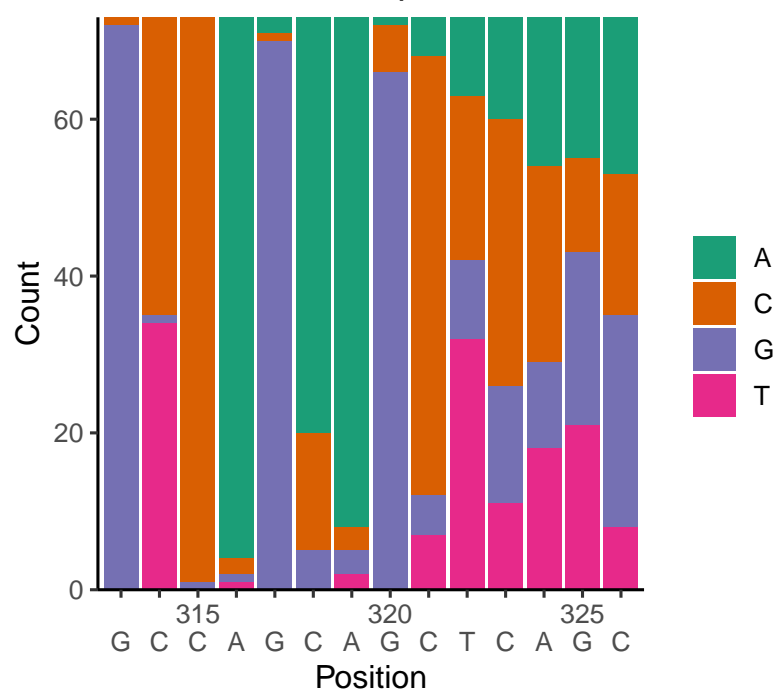


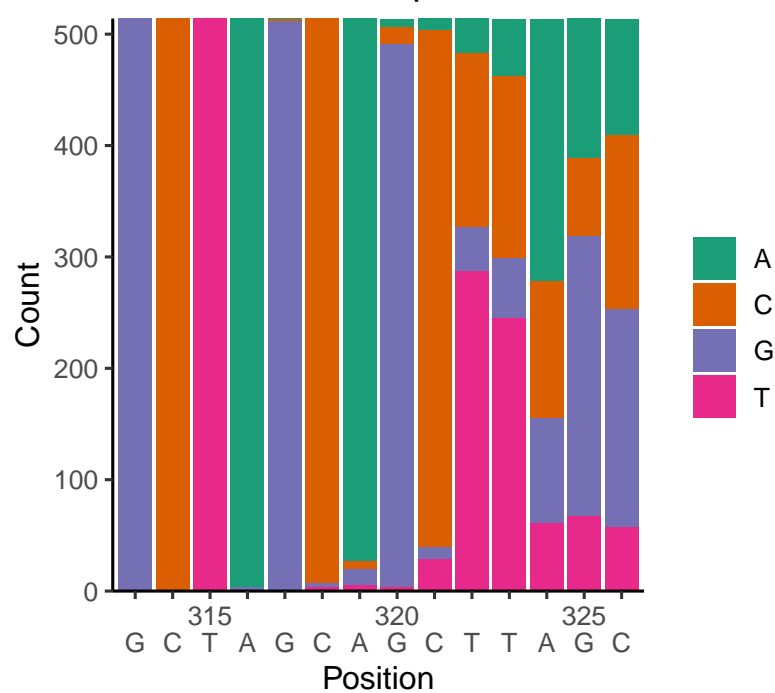
Gene TRBV23-1*ap01_T304C



Gene TRBV7-1*ap01_T296C



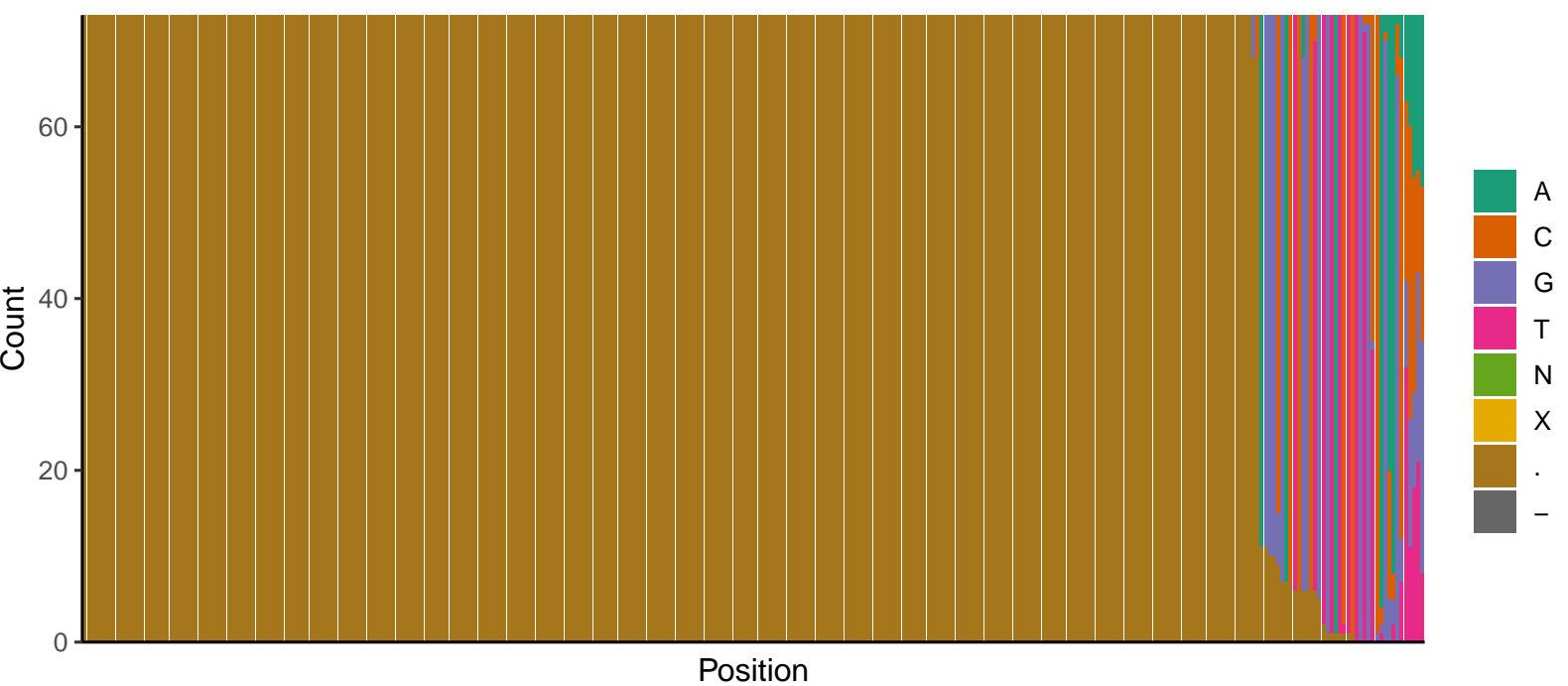
Gene TRBV7-7*ap01_C315T



Gene TRBV23-1*ap01_T304C



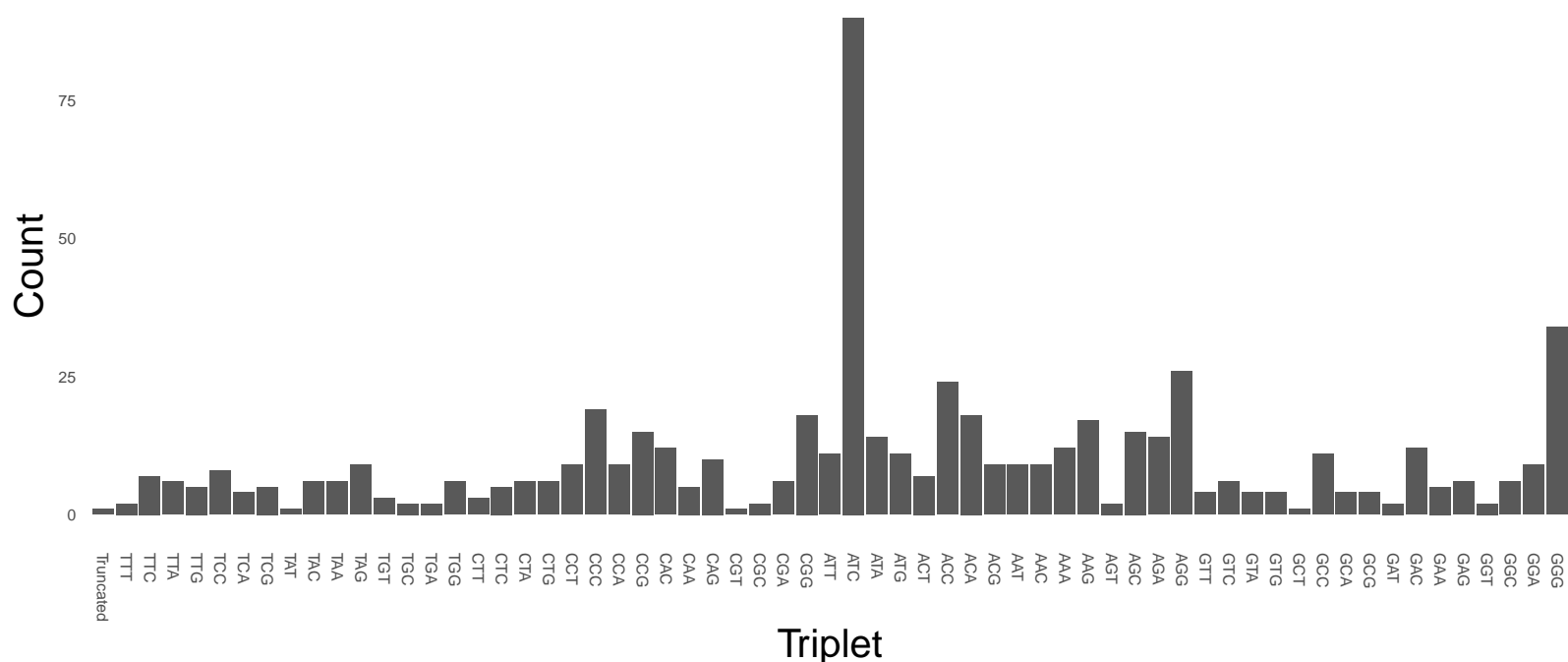
Gene TRBV7-1*ap01_T296C



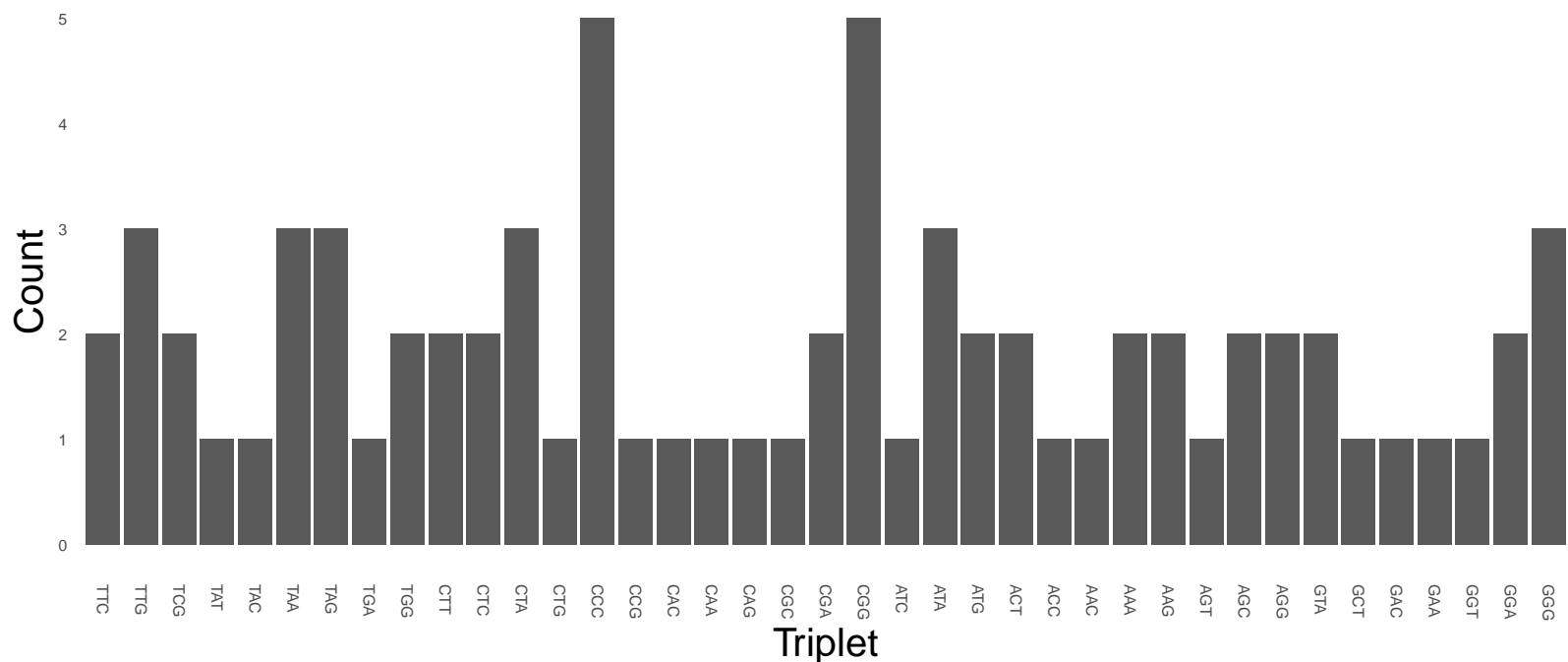
Gene TRBV7-7*ap01_C315T



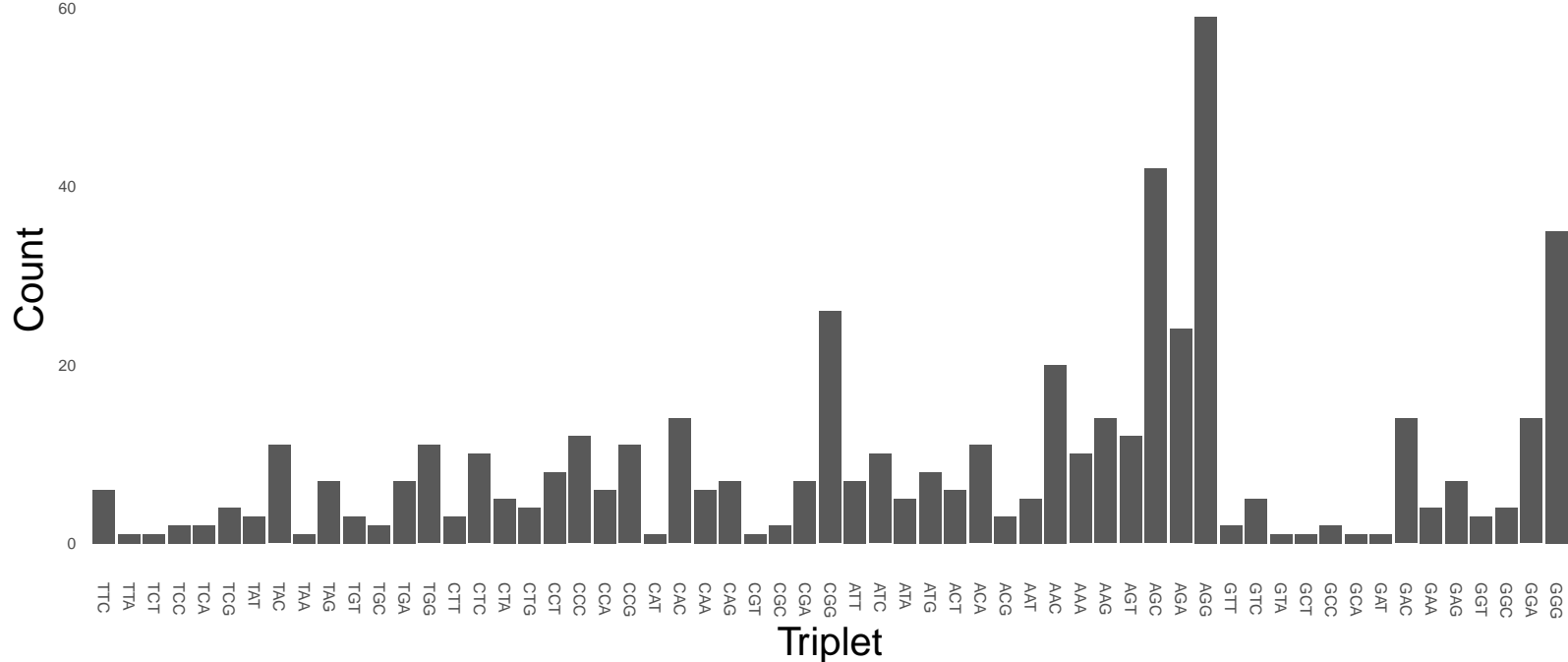
TRBV23-1*ap01_T304C- Final 3 nucleotides as a triplet



TRBV7-1*ap01_T296C- Final 3 nucleotides as a triplet

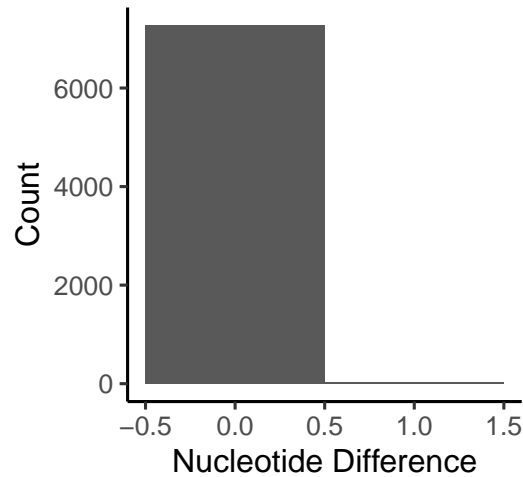


TRBV7-7*ap01_C315T- Final 3 nucleotides as a triplet



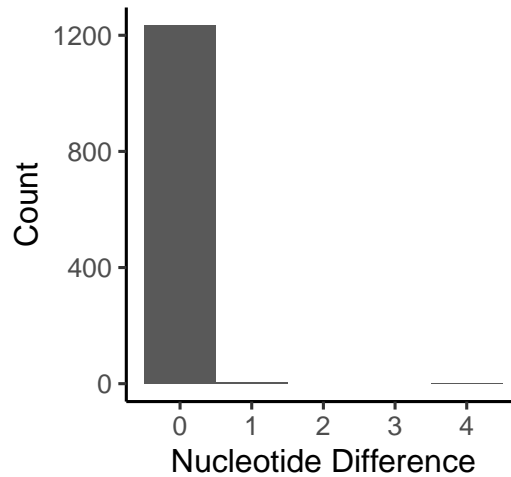
TRBV20-1*ap01

7308 sequences assigned
7271 (99.5%) exact matches, in which:
7229 unique CDR3
13 unique J



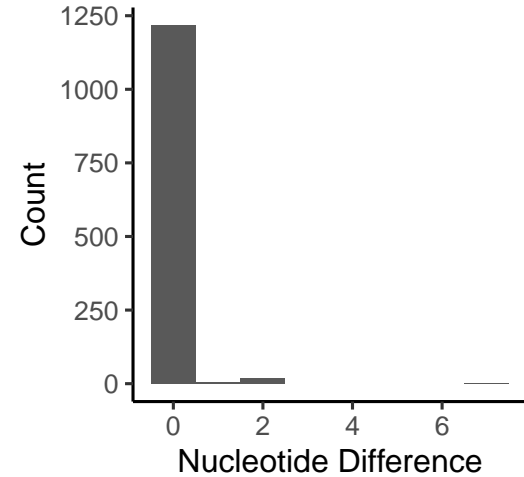
TRBV10-2*ap01

1240 sequences assigned
1234 (99.5%) exact matches, in which:
1223 unique CDR3
13 unique J



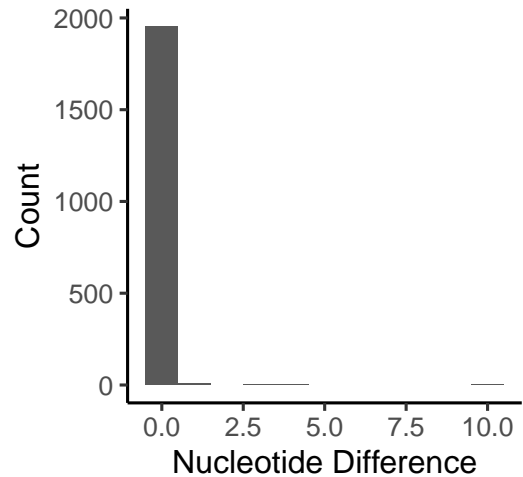
TRBV13*ap01

1244 sequences assigned
1217 (97.8%) exact matches, in which:
1201 unique CDR3
13 unique J



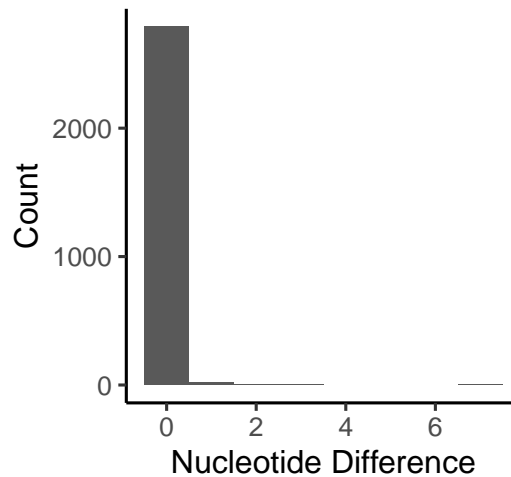
TRBV10-1*ap01

1966 sequences assigned
1952 (99.3%) exact matches, in which:
1926 unique CDR3
13 unique J



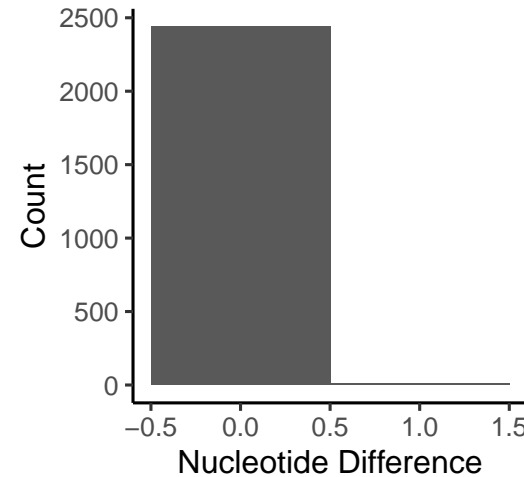
TRBV10-3*ap01

2812 sequences assigned
2790 (99.2%) exact matches, in which:
2760 unique CDR3
13 unique J



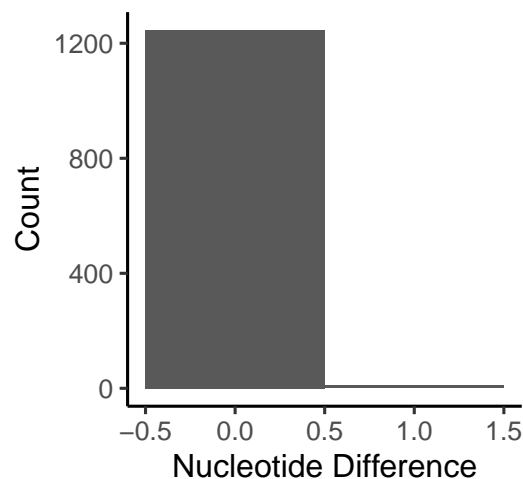
TRBV14*ap01

2450 sequences assigned
2439 (99.6%) exact matches, in which:
2428 unique CDR3
13 unique J



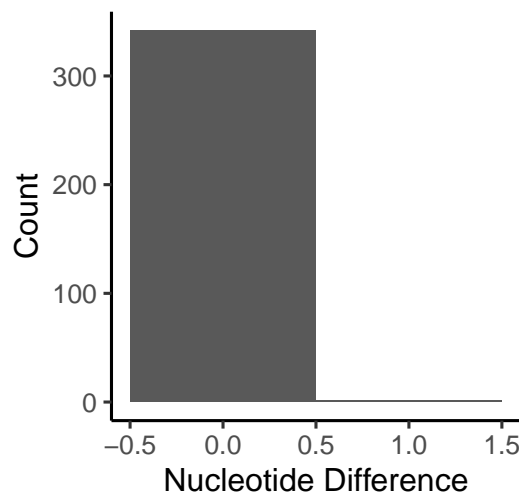
TRBV20-1*ap02

1256 sequences assigned
1246 (99.2%) exact matches, in which:
1235 unique CDR3
13 unique J



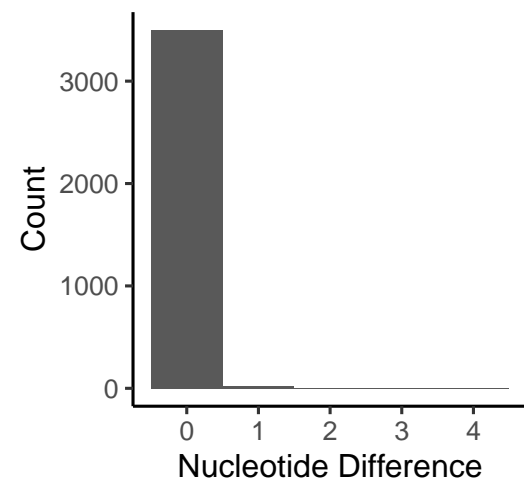
TRBV1*ap01

343 sequences assigned
342 (99.7%) exact matches, in which:
337 unique CDR3
13 unique J



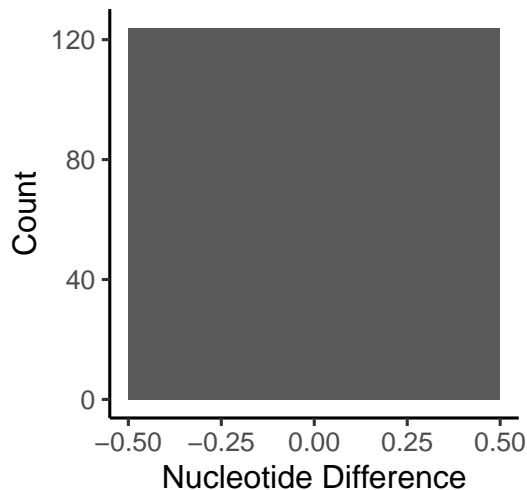
TRBV15*ap02

3525 sequences assigned
3499 (99.3%) exact matches, in which:
3463 unique CDR3
13 unique J



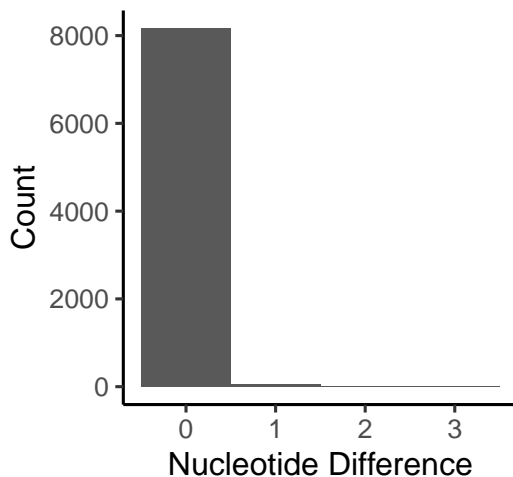
TRBV16*ap01

124 sequences assigned
124 (100%) exact matches, in which:
123 unique CDR3
12 unique J



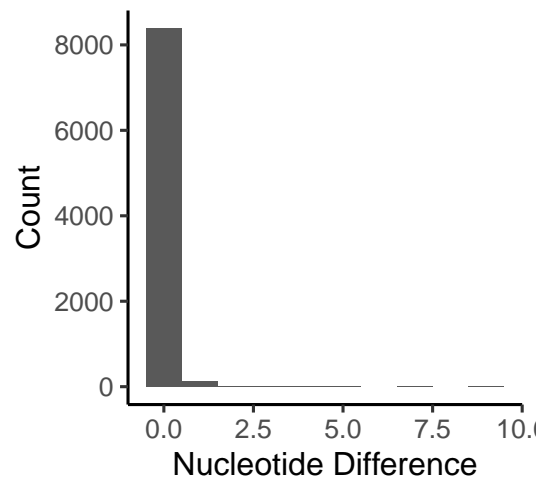
TRBV2*ap01

8234 sequences assigned
8164 (99.1%) exact matches, in which:
8050 unique CDR3
13 unique J



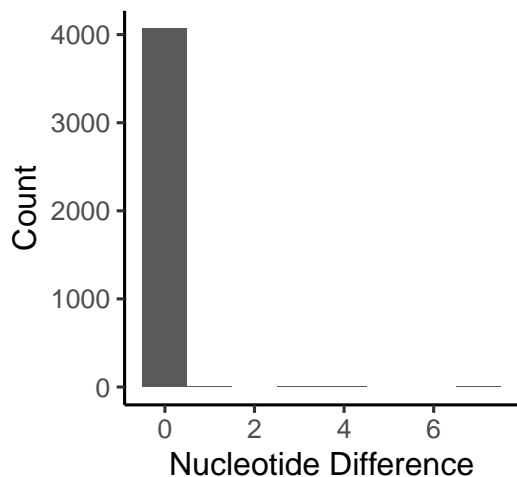
TRBV30*ap01

8520 sequences assigned
8386 (98.4%) exact matches, in which:
8201 unique CDR3
13 unique J



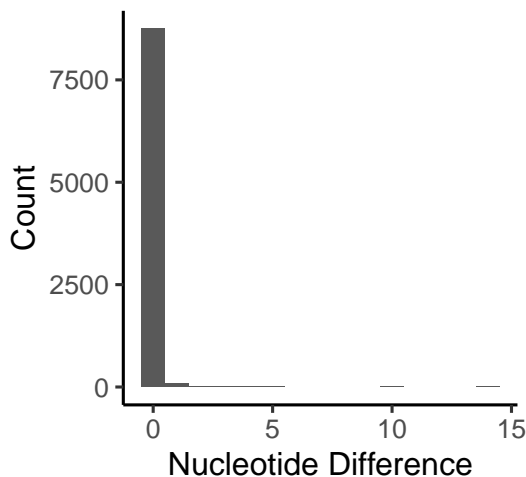
TRBV18*ap01

4078 sequences assigned
4067 (99.7%) exact matches, in which:
4050 unique CDR3
13 unique J



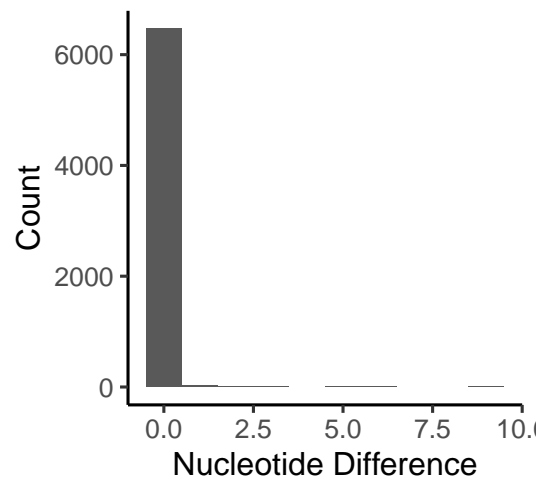
TRBV27*ap01

8850 sequences assigned
8749 (98.9%) exact matches, in which:
8640 unique CDR3
13 unique J



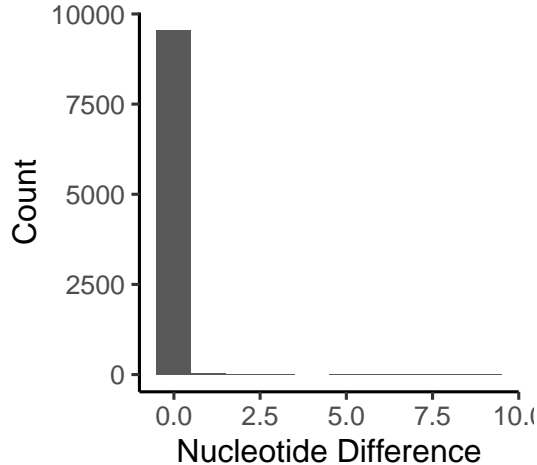
TRBV9*ap01

6499 sequences assigned
6468 (99.5%) exact matches, in which:
6421 unique CDR3
13 unique J



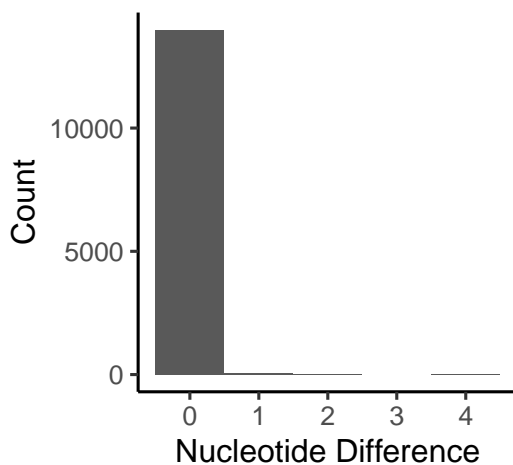
TRBV19*ap01

9617 sequences assigned
9561 (99.4%) exact matches, in which:
9531 unique CDR3
13 unique J



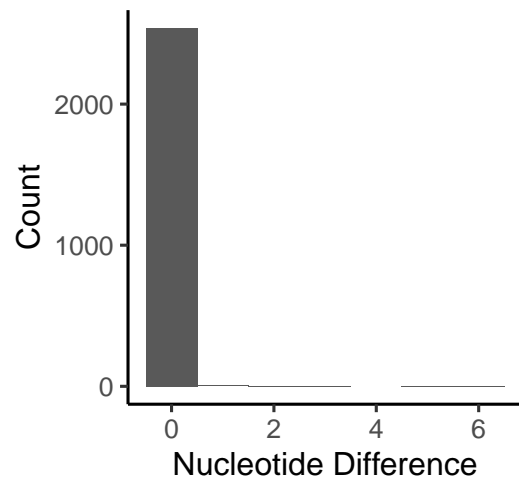
TRBV28*ap01

14071 sequences assigned
13986 (99.4%) exact matches, in which:
13888 unique CDR3
14 unique J



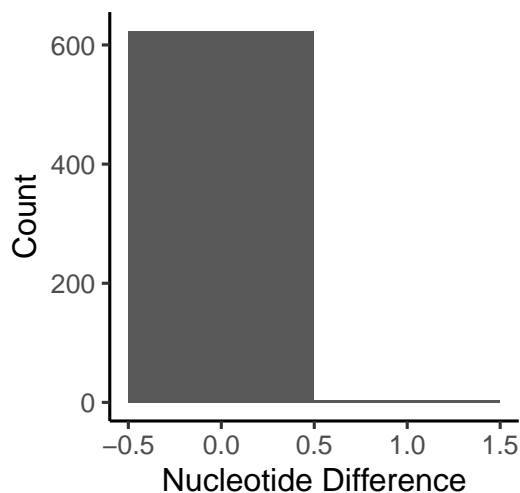
TRBV21-1*ap01

2559 sequences assigned
2539 (99.2%) exact matches, in which:
2529 unique CDR3
13 unique J



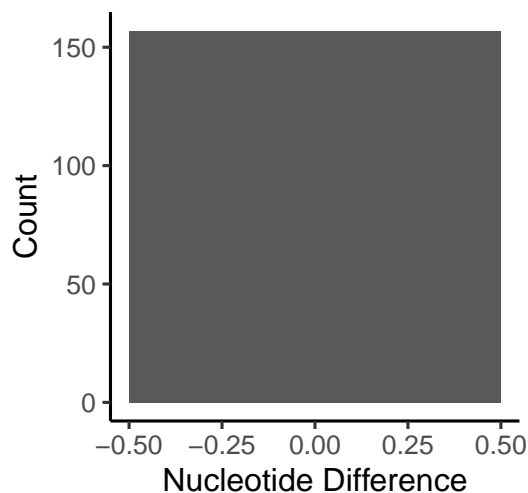
TRBV11-1*ap01

628 sequences assigned
624 (99.4%) exact matches, in which:
622 unique CDR3
13 unique J



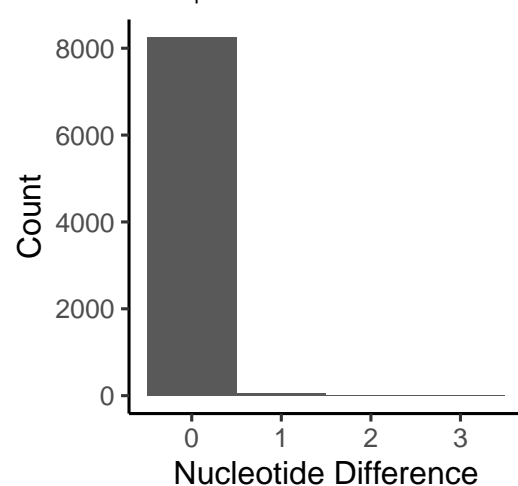
TRBV12-1*ap01

157 sequences assigned
157 (100%) exact matches, in which:
156 unique CDR3
12 unique J



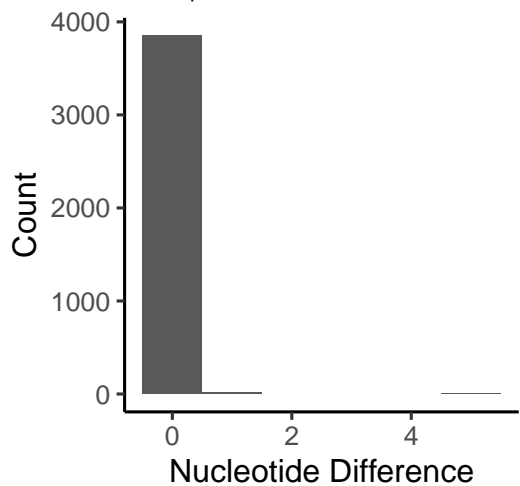
TRBV12-34*ap01

8310 sequences assigned
8249 (99.3%) exact matches, in which:
8177 unique CDR3
13 unique J



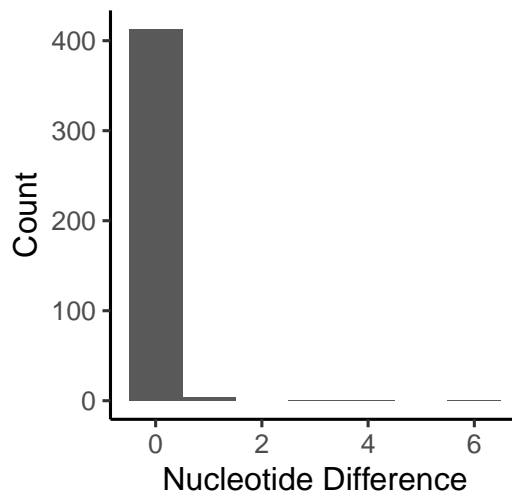
TRBV11-2*ap01

3869 sequences assigned
3851 (99.5%) exact matches, in which:
3828 unique CDR3
13 unique J



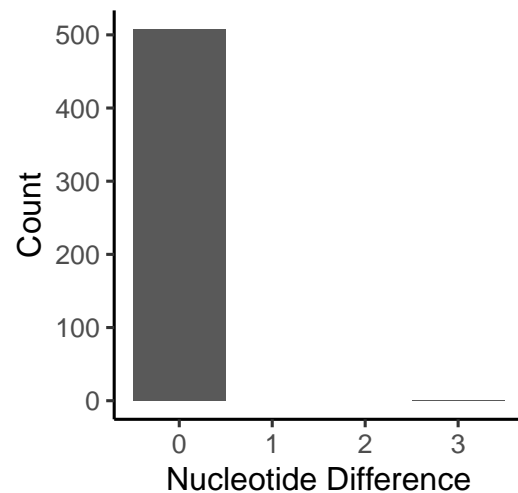
TRBV12-2*ap01

420 sequences assigned
413 (98.3%) exact matches, in which:
410 unique CDR3
13 unique J



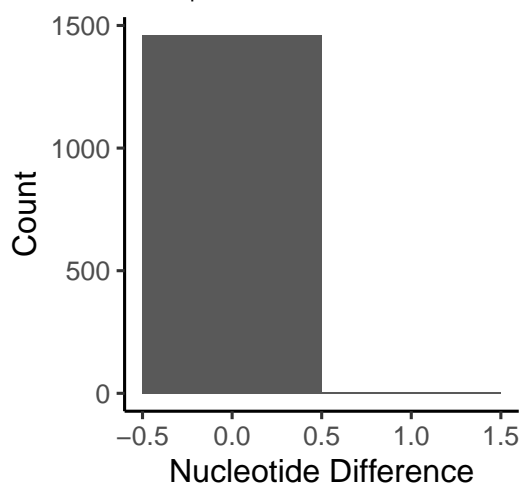
TRBV23-1*ap01

509 sequences assigned
508 (99.8%) exact matches, in which:
503 unique CDR3
13 unique J



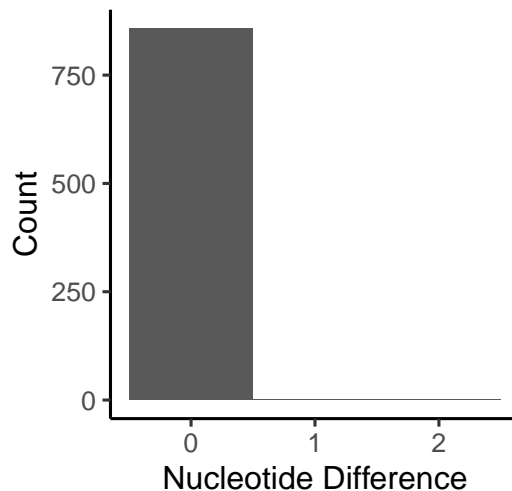
TRBV11-3*ap01

1467 sequences assigned
1461 (99.6%) exact matches, in which:
1453 unique CDR3
13 unique J



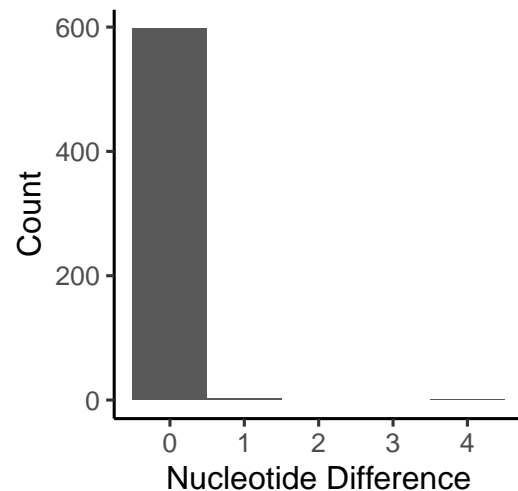
TRBV12-5*ap01

861 sequences assigned
858 (99.7%) exact matches, in which:
849 unique CDR3
13 unique J



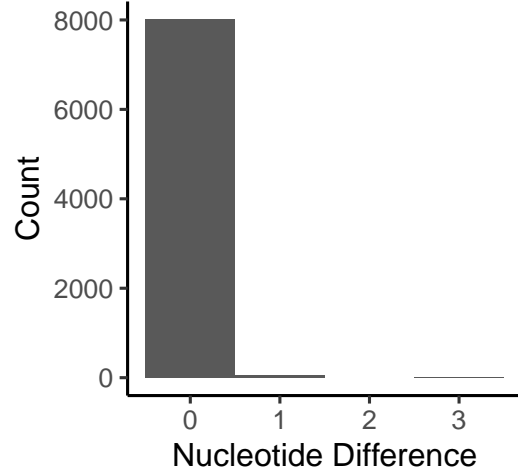
TRBV23-1*ap01_T304C

601 sequences assigned
598 (99.5%) exact matches, in which:
594 unique CDR3
13 unique J



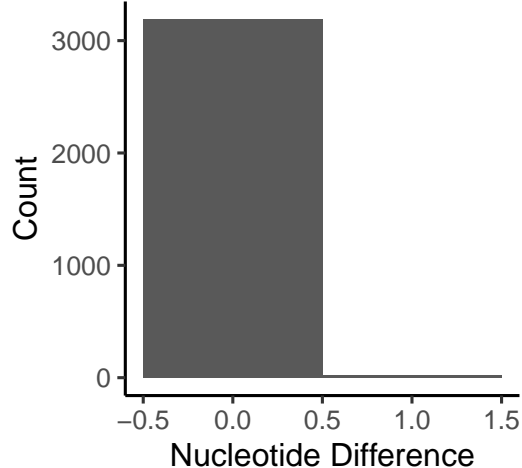
TRBV3-12*ap01

8073 sequences assigned
8012 (99.2%) exact matches, in which:
7929 unique CDR3
13 unique J



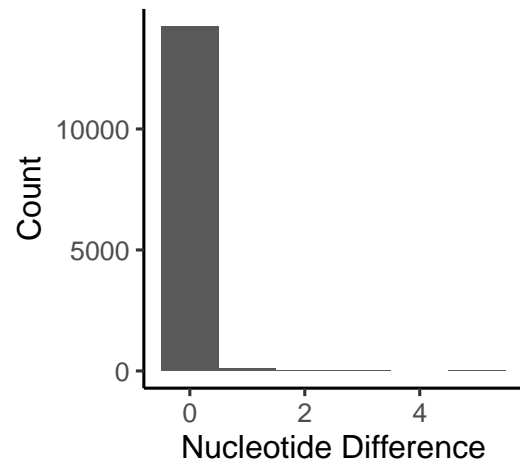
TRBV4-2*ap01

3215 sequences assigned
3189 (99.2%) exact matches, in which:
3158 unique CDR3
13 unique J



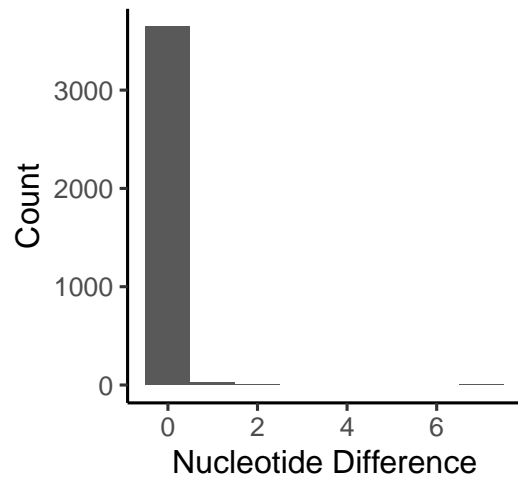
TRBV5-1*ap01

14340 sequences assigned
14248 (99.4%) exact matches, in which:
14030 unique CDR3
13 unique J



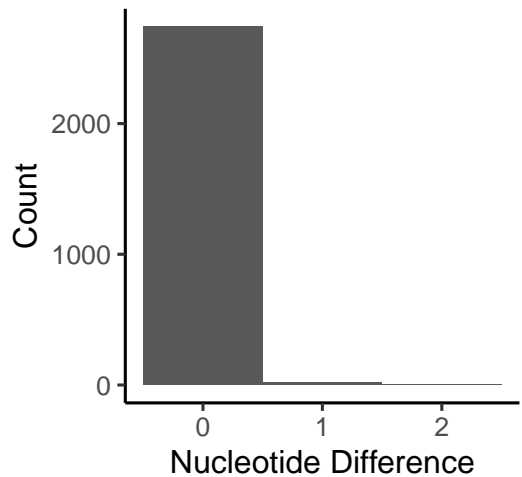
TRBV4-1*ap01

3677 sequences assigned
3645 (99.1%) exact matches, in which:
3598 unique CDR3
13 unique J



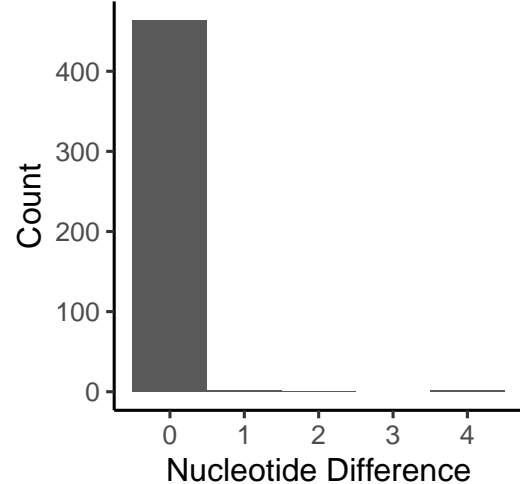
TRBV4-3*ap01

2760 sequences assigned
2741 (99.3%) exact matches, in which:
2721 unique CDR3
13 unique J



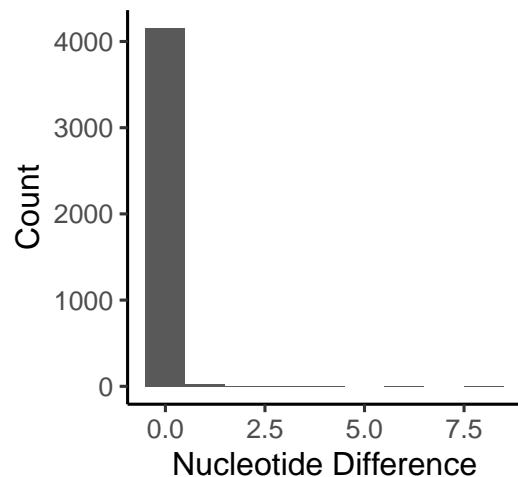
TRBV5-3*ap01

469 sequences assigned
464 (98.9%) exact matches, in which:
462 unique CDR3
13 unique J



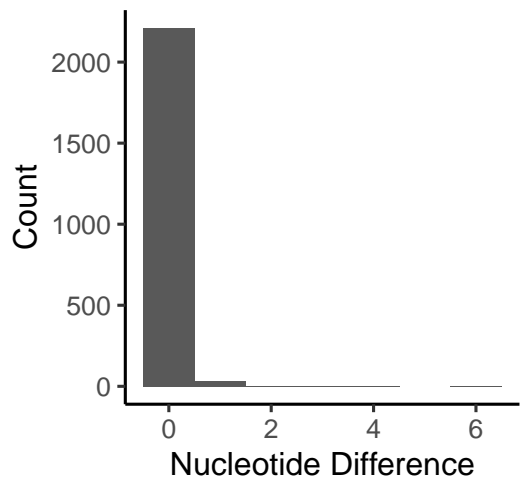
TRBV24-1*ap01

4190 sequences assigned
4156 (99.2%) exact matches, in which:
4102 unique CDR3
13 unique J



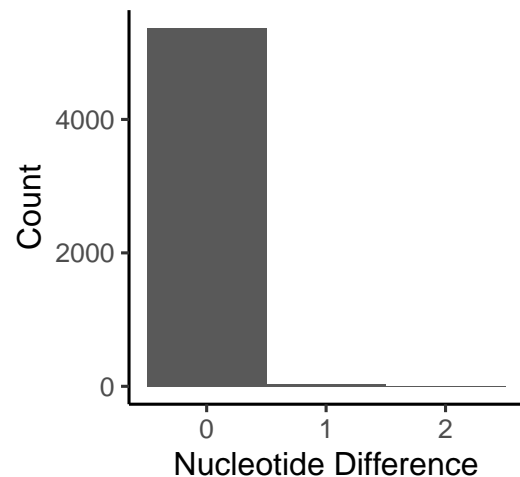
TRBV25-1*ap01

2246 sequences assigned
2210 (98.4%) exact matches, in which:
2175 unique CDR3
13 unique J



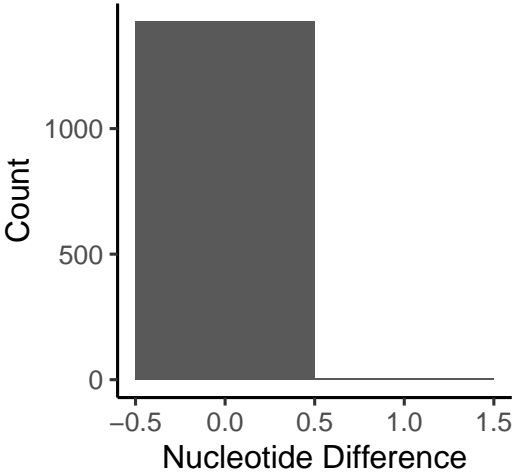
TRBV5-4*ap01

5408 sequences assigned
5370 (99.3%) exact matches, in which:
5305 unique CDR3
13 unique J



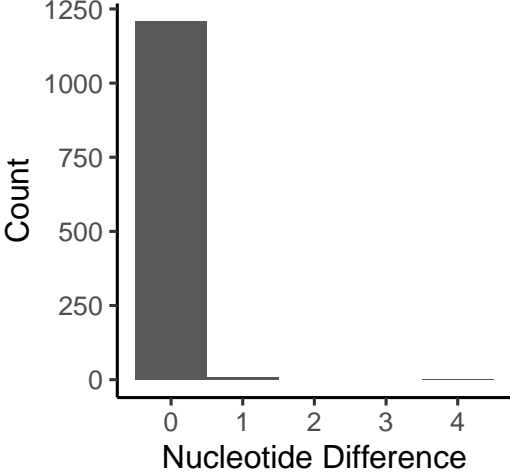
TRBV5-5*ap01

1434 sequences assigned
1427 (99.5%) exact matches, in which:
1412 unique CDR3
13 unique J



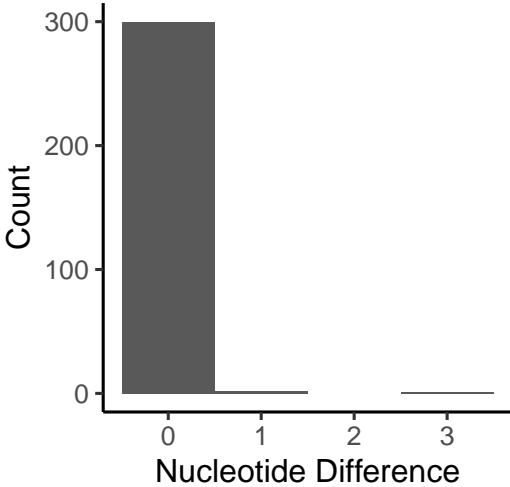
TRBV5-8*ap01

1216 sequences assigned
1208 (99.3%) exact matches, in which:
1198 unique CDR3
13 unique J



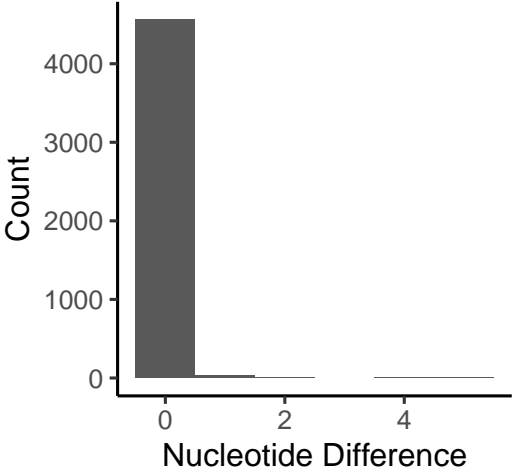
TRBV6-7*ap01

303 sequences assigned
300 (99%) exact matches, in which:
296 unique CDR3
13 unique J



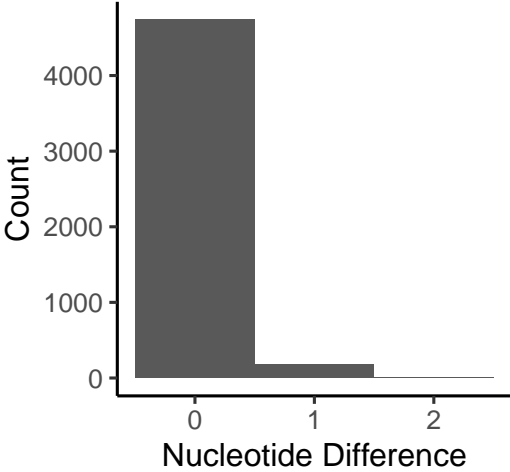
TRBV5-6*ap01

4590 sequences assigned
4560 (99.3%) exact matches, in which:
4481 unique CDR3
13 unique J



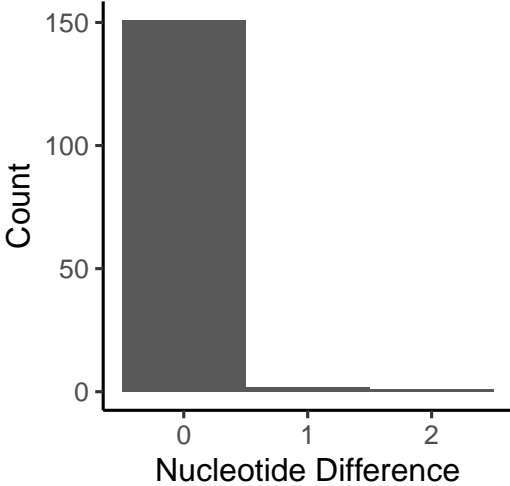
TRBV6-1*ap01

4918 sequences assigned
4738 (96.3%) exact matches, in which:
4680 unique CDR3
14 unique J



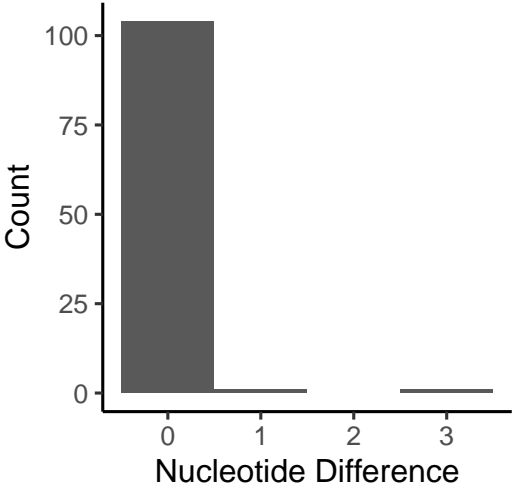
TRBV6-8*ap01

154 sequences assigned
151 (98.1%) exact matches, in which:
146 unique CDR3
13 unique J



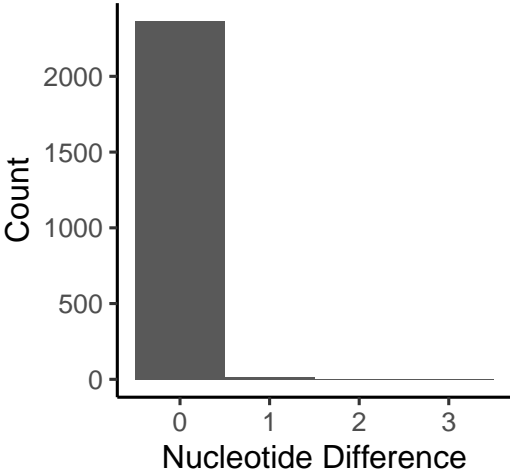
TRBV5-7*ap01

106 sequences assigned
104 (98.1%) exact matches, in which:
104 unique CDR3
13 unique J



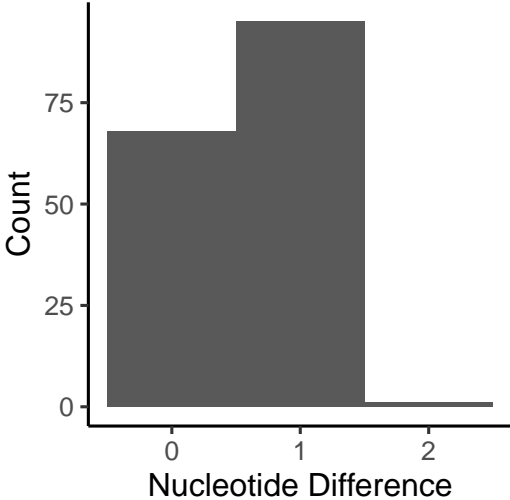
TRBV6-4*ap01

2385 sequences assigned
2365 (99.2%) exact matches, in which:
2346 unique CDR3
13 unique J



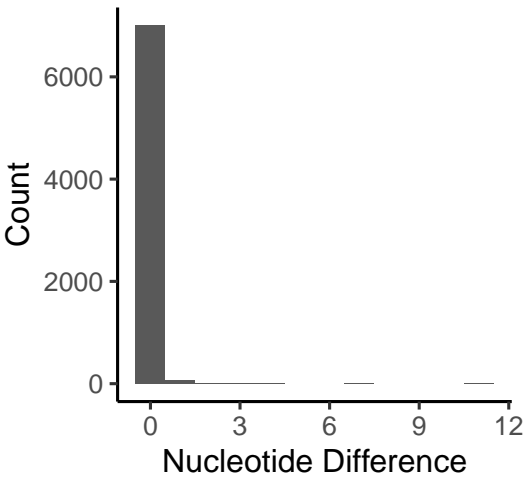
TRBV6-9*ap01

164 sequences assigned
68 (41.5%) exact matches, in which:
68 unique CDR3
13 unique J



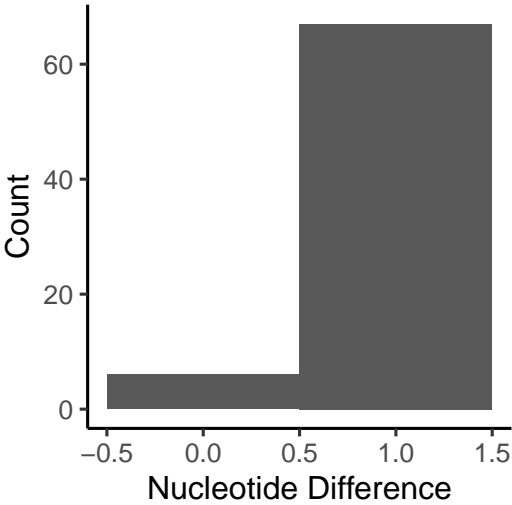
TRBV6-23*ap01

7075 sequences assigned
7006 (99%) exact matches, in which:
6898 unique CDR3
13 unique J



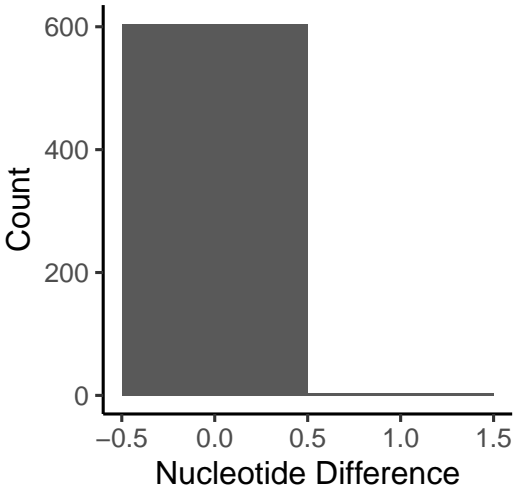
TRBV7-1*ap01_T296C

73 sequences assigned
6 (8.2%) exact matches, in which:
6 unique CDR3
5 unique J



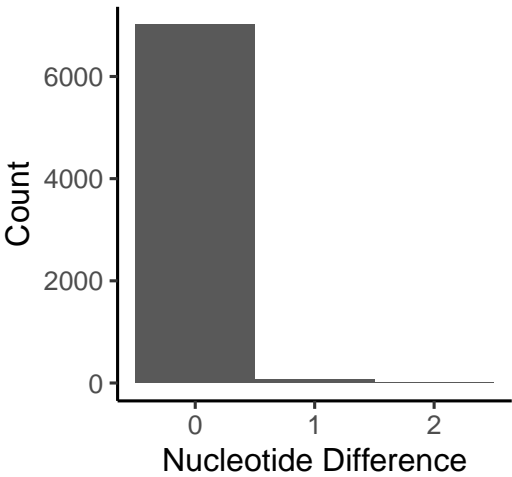
TRBV7-3*ap03

609 sequences assigned
605 (99.3%) exact matches, in which:
597 unique CDR3
13 unique J



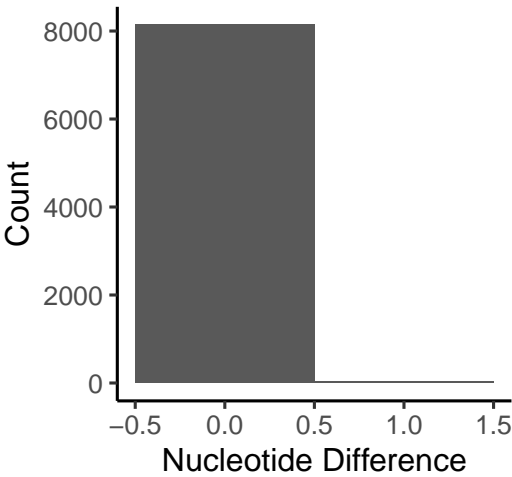
TRBV6-56*ap01

7078 sequences assigned
7013 (99.1%) exact matches, in which:
6896 unique CDR3
13 unique J



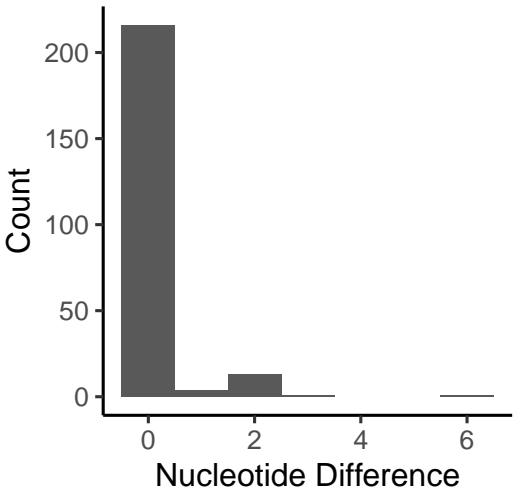
TRBV7-2*ap01

8177 sequences assigned
8143 (99.6%) exact matches, in which:
8081 unique CDR3
13 unique J



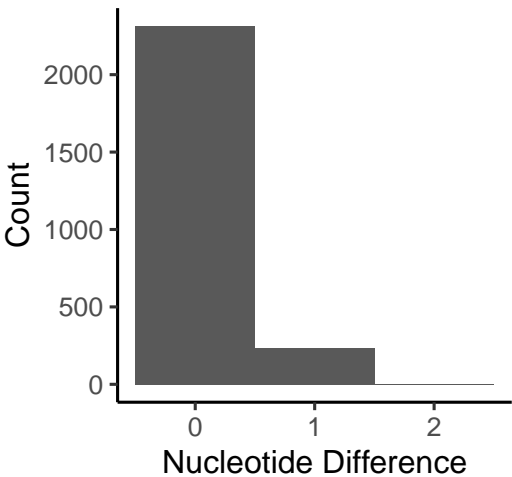
TRBV7-4*ap01

235 sequences assigned
216 (91.9%) exact matches, in which:
212 unique CDR3
13 unique J



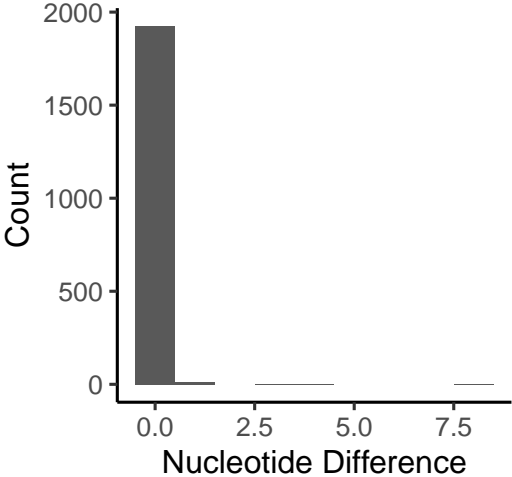
TRBV6-56*ap02

2549 sequences assigned
2314 (90.8%) exact matches, in which:
2276 unique CDR3
13 unique J



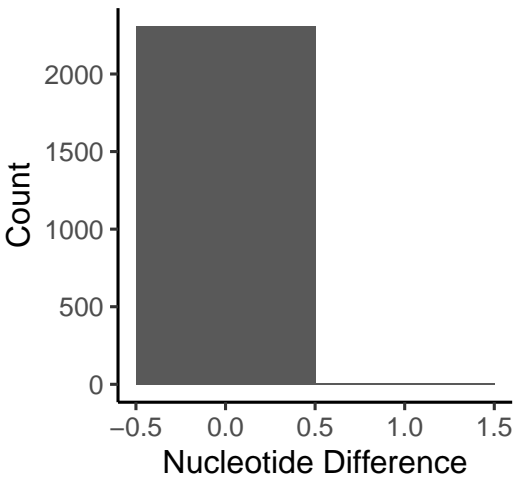
TRBV7-3*ap01

1940 sequences assigned
1925 (99.2%) exact matches, in which:
1918 unique CDR3
13 unique J



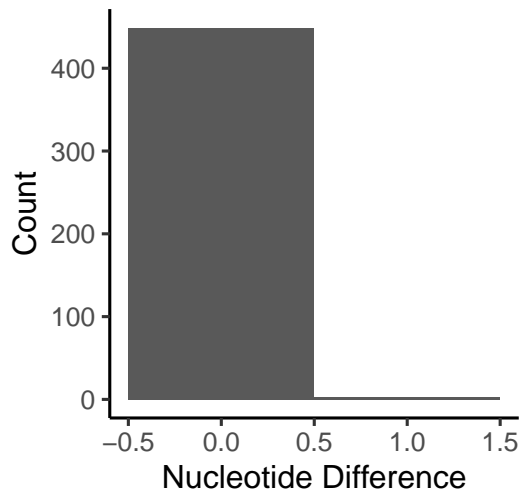
TRBV7-6*ap01

2318 sequences assigned
2309 (99.6%) exact matches, in which:
2295 unique CDR3
13 unique J



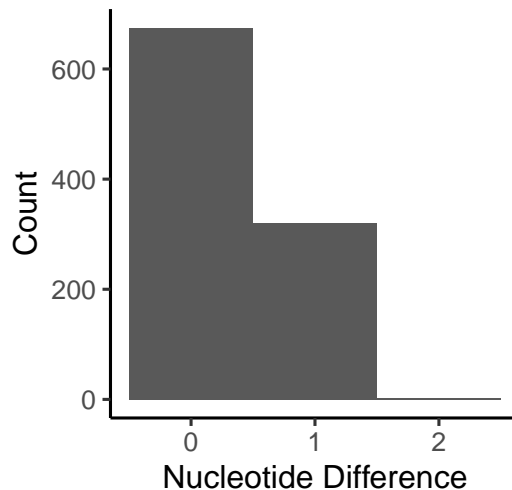
TRBV7-7*ap01

452 sequences assigned
449 (99.3%) exact matches, in which:
445 unique CDR3
13 unique J



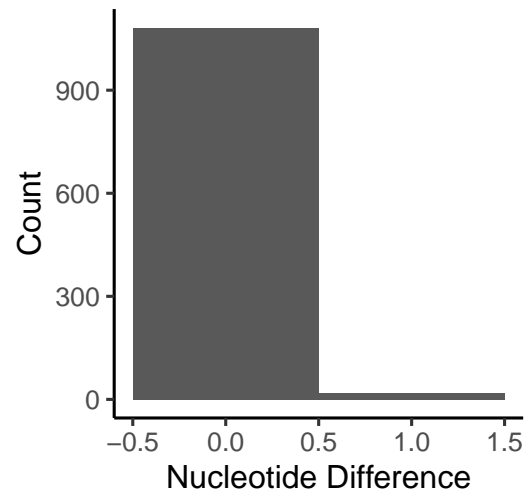
TRBV7-8*ap03

998 sequences assigned
675 (67.6%) exact matches, in which:
666 unique CDR3
13 unique J



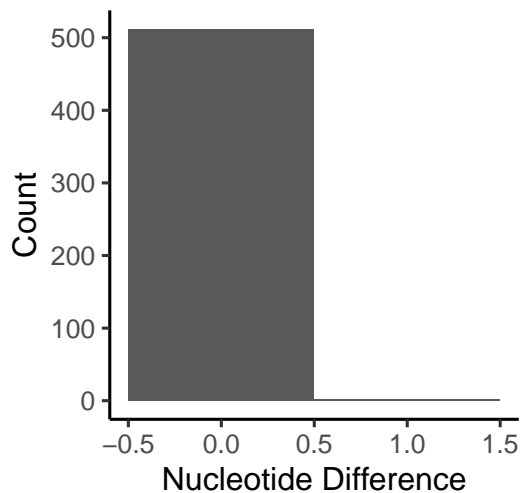
TRBV29-1*ap02

1101 sequences assigned
1082 (98.3%) exact matches, in which:
1054 unique CDR3
13 unique J



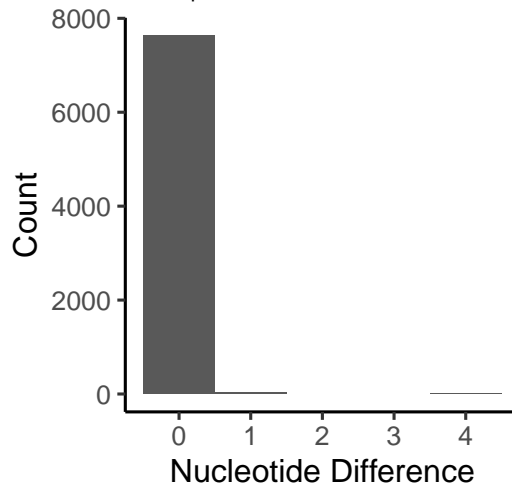
TRBV7-7*ap01_C315T

514 sequences assigned
512 (99.6%) exact matches, in which:
504 unique CDR3
13 unique J



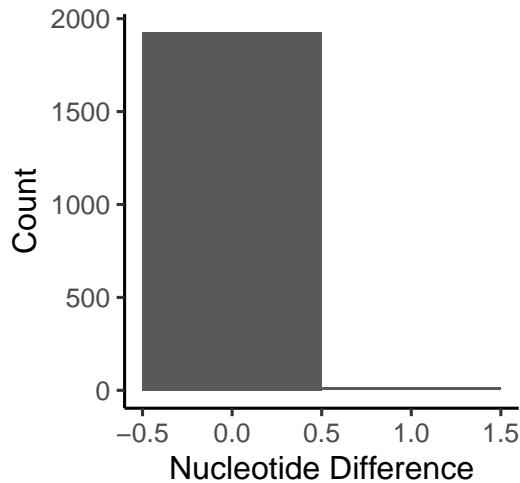
TRBV7-9*ap01

7667 sequences assigned
7629 (99.5%) exact matches, in which:
7572 unique CDR3
13 unique J



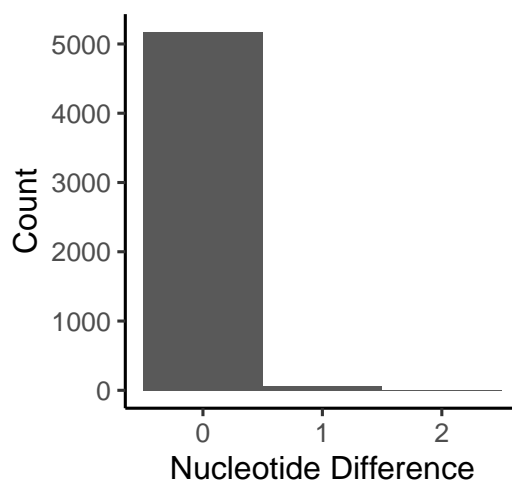
TRBV7-8*ap01

1943 sequences assigned
1928 (99.2%) exact matches, in which:
1905 unique CDR3
13 unique J

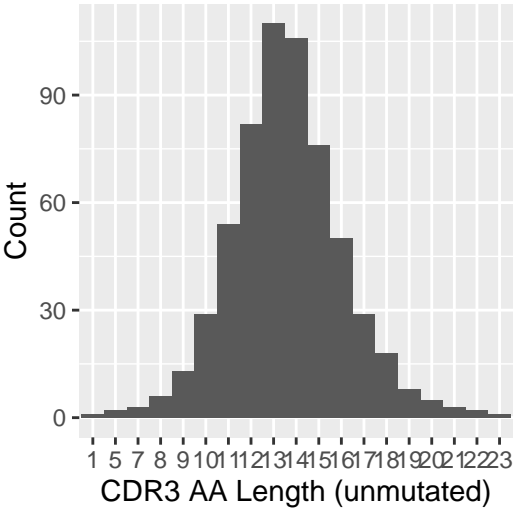


TRBV29-1*ap01

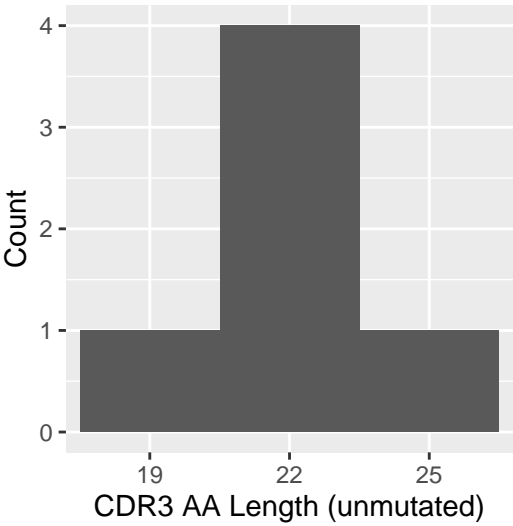
5235 sequences assigned
5172 (98.8%) exact matches, in which:
5047 unique CDR3
13 unique J



TRBV23-1*ap01_T304C



TRBV7-1*ap01_T296C



TRBV7-7*ap01_C315T

