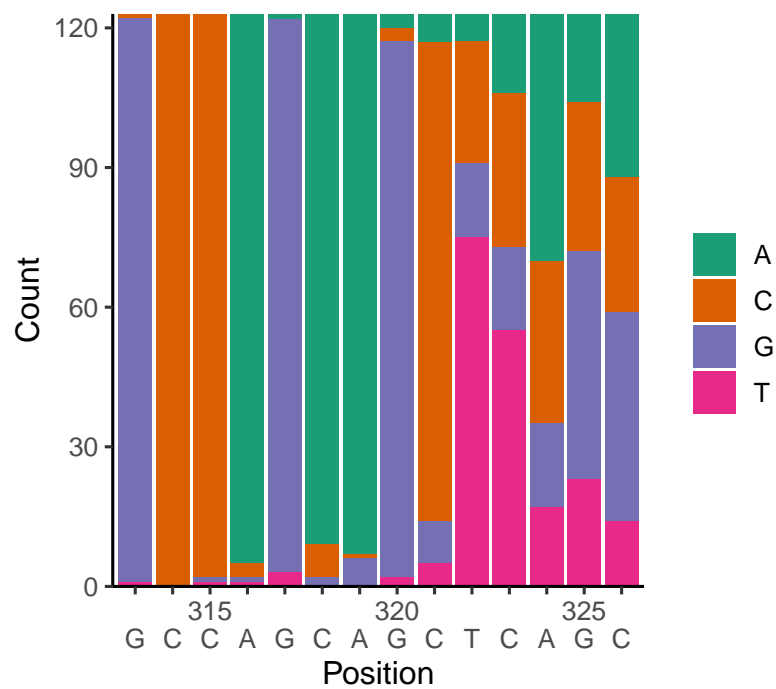
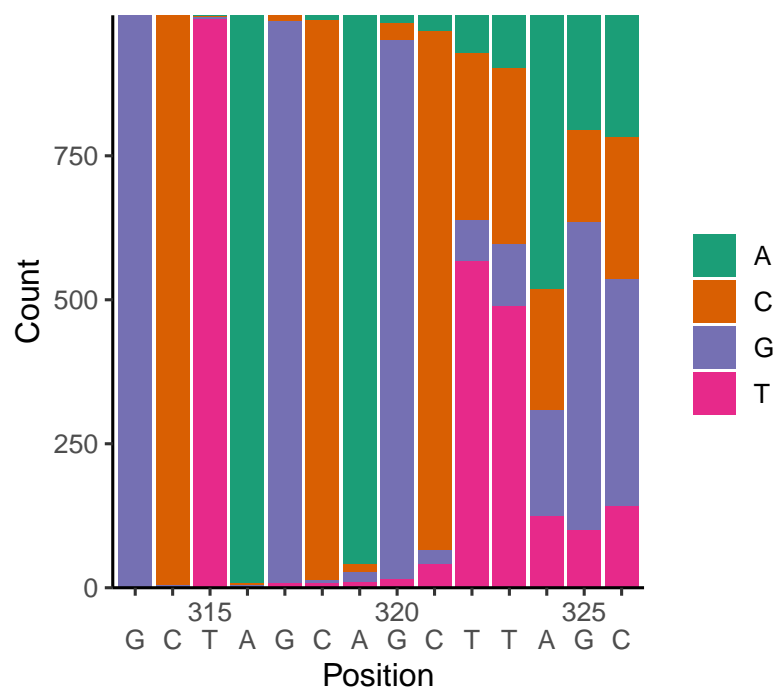


Gene TRBV7-1*ap01_G291C_T296C



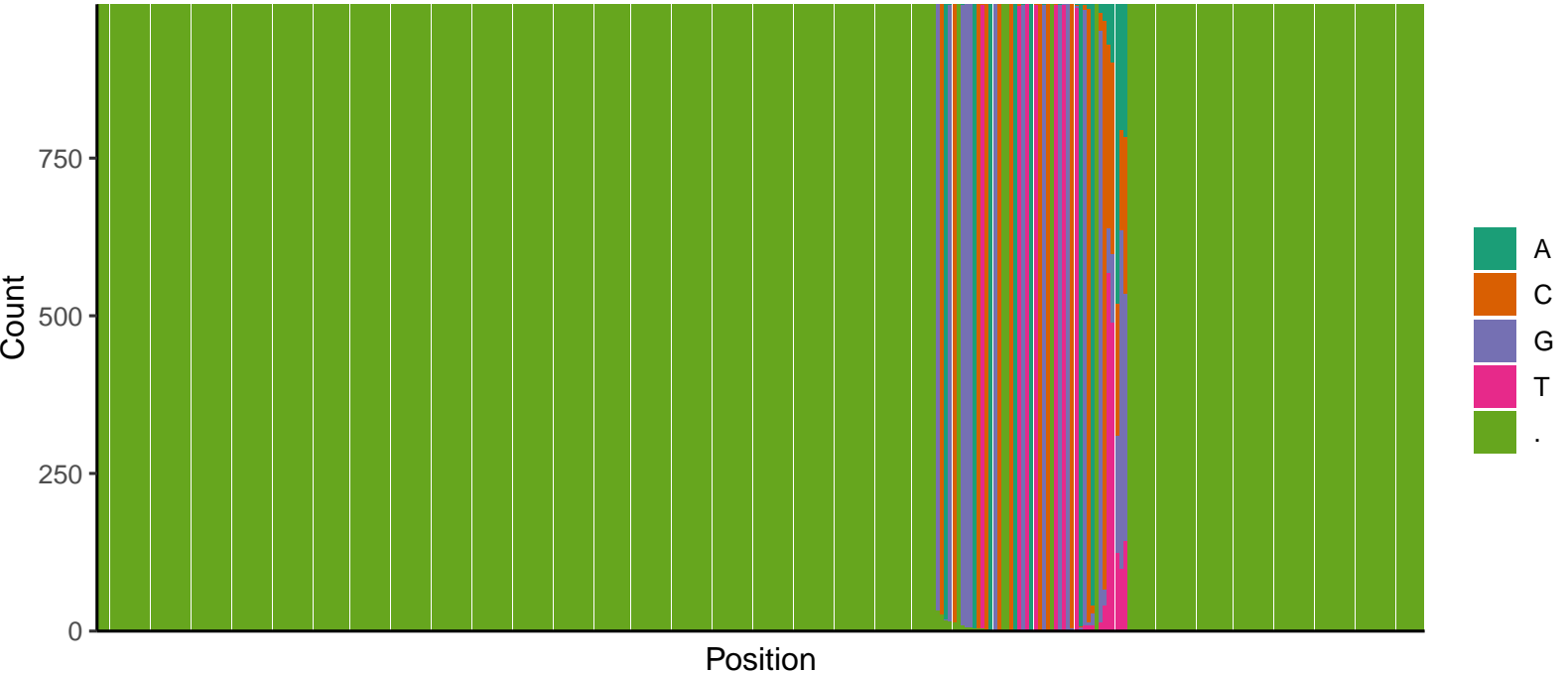
Gene TRBV7-7*ap01_C315T



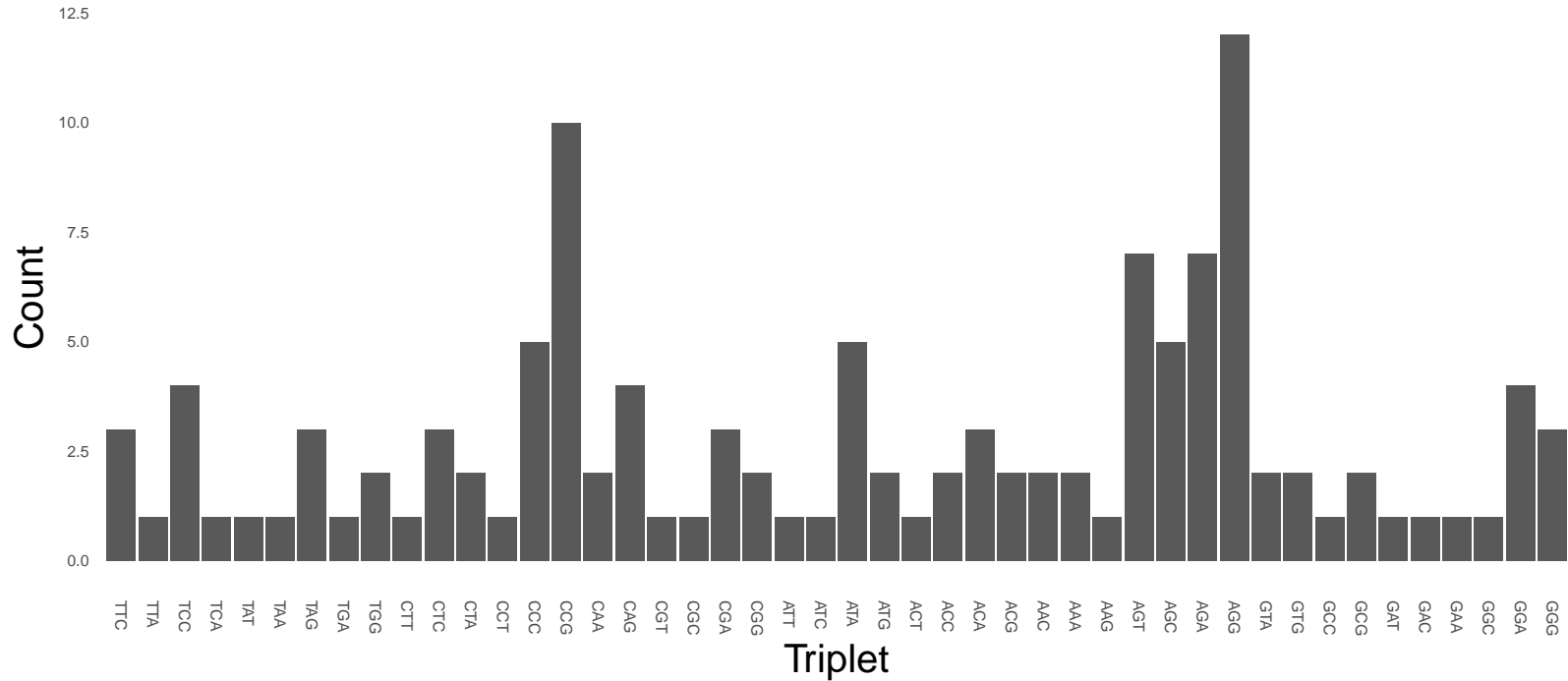
Gene TRBV7-1*ap01_G291C_T296C



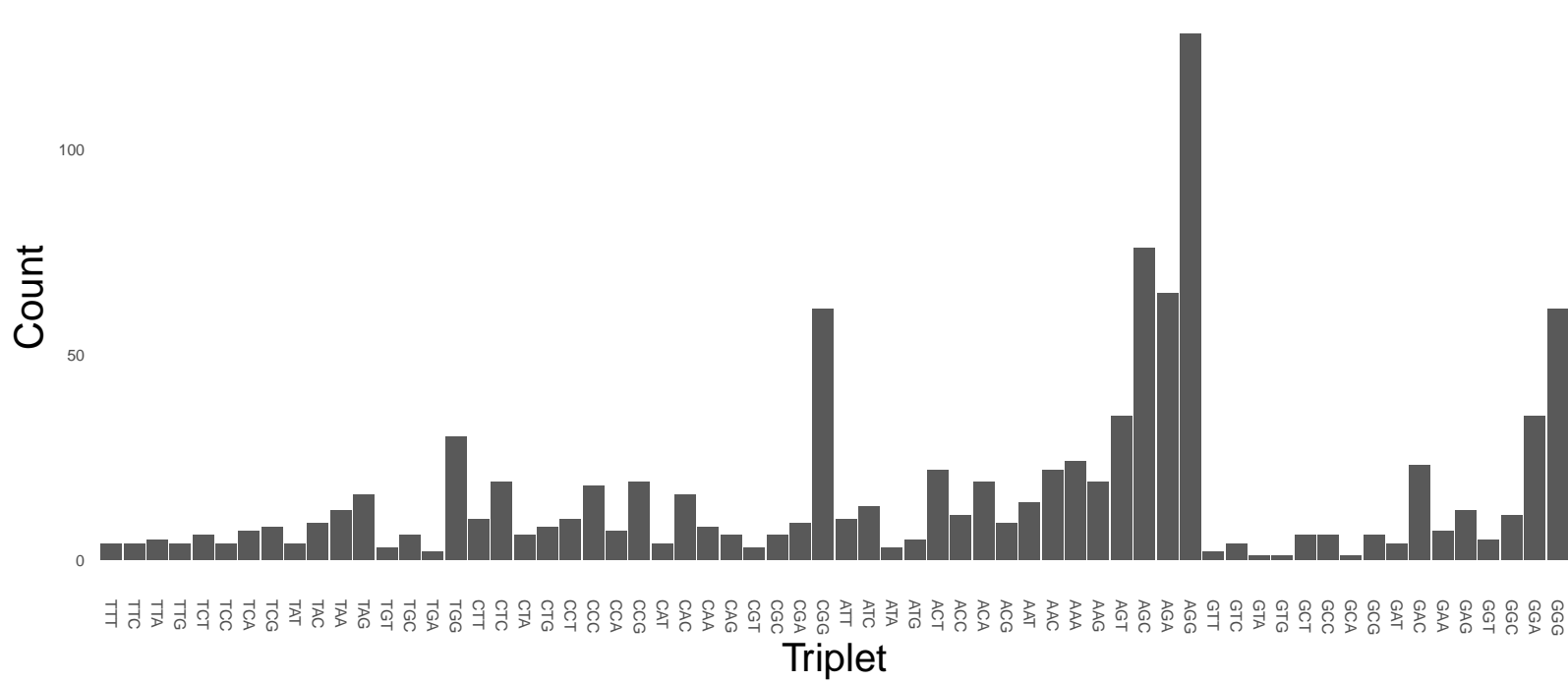
Gene TRBV7-7*ap01_C315T



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

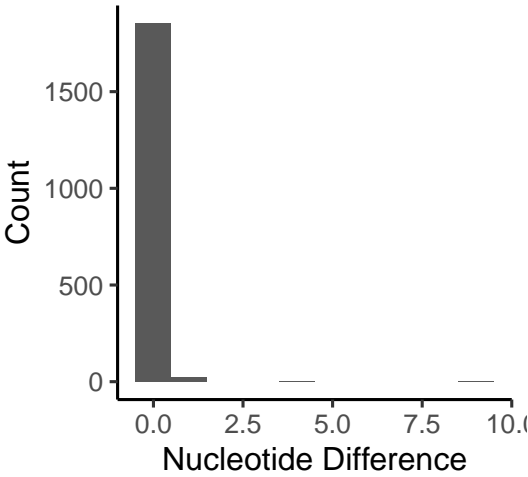


TRBV7-7*ap01_C315T- Final 3 nucleotides as a triplet



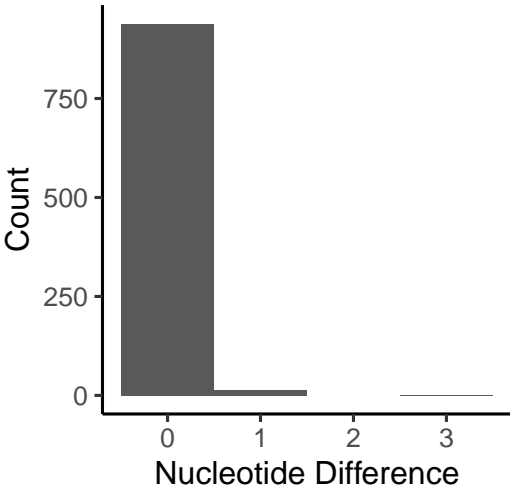
TRBV10-1*ap01

1877 sequences assigned
1853 (98.7%) exact matches, in which:
1814 unique CDR3
13 unique J



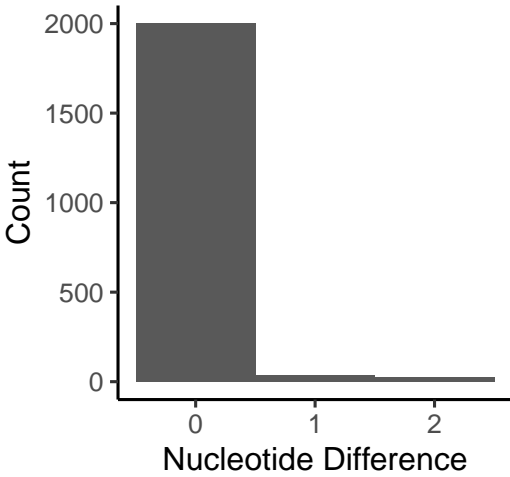
TRBV10-2*ap01

953 sequences assigned
939 (98.5%) exact matches, in which:
924 unique CDR3
13 unique J



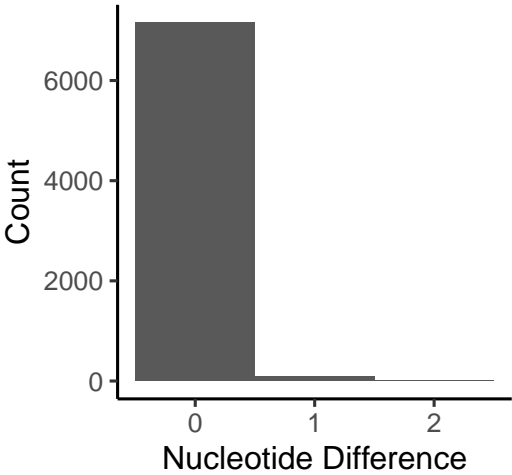
TRBV13*ap01

2061 sequences assigned
2001 (97.1%) exact matches, in which:
1960 unique CDR3
13 unique J



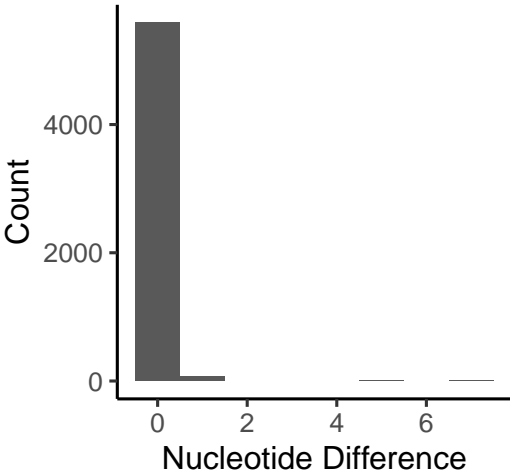
TRBV20-1*ap01

7241 sequences assigned
7154 (98.8%) exact matches, in which:
7029 unique CDR3
13 unique J



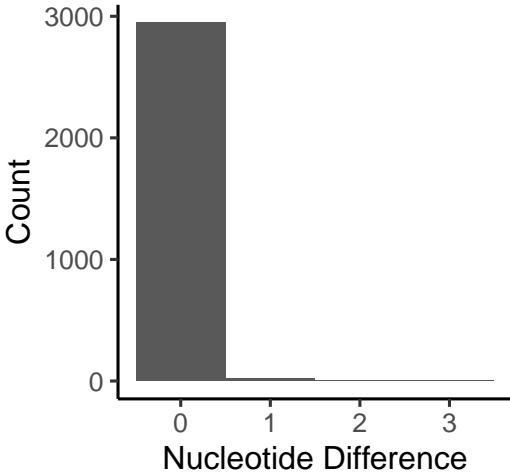
TRBV10-3*ap01

5663 sequences assigned
5588 (98.7%) exact matches, in which:
5490 unique CDR3
13 unique J



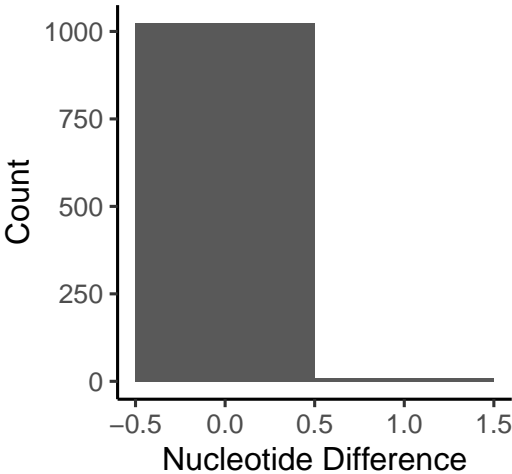
TRBV14*ap01

2972 sequences assigned
2947 (99.2%) exact matches, in which:
2903 unique CDR3
13 unique J



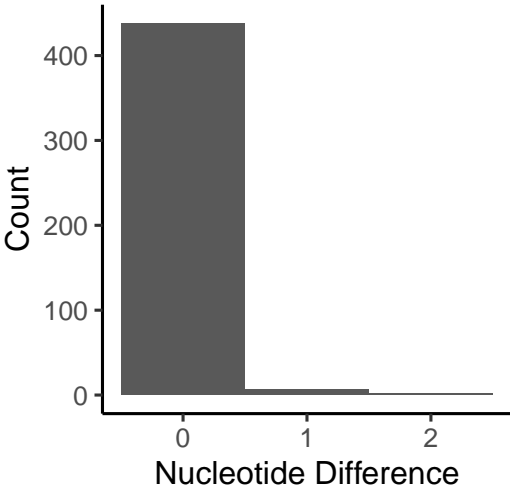
TRBV20-1*ap02

1033 sequences assigned
1024 (99.1%) exact matches, in which:
1004 unique CDR3
13 unique J



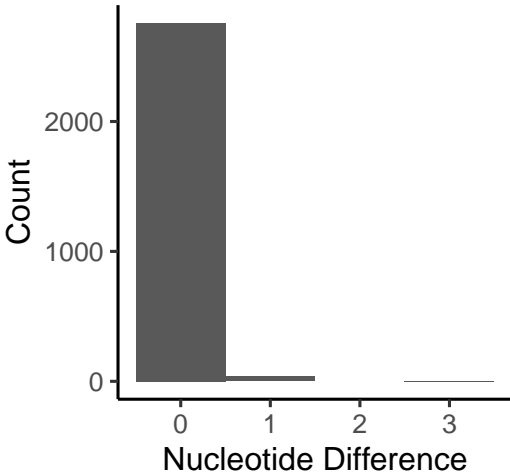
TRBV1*ap01

446 sequences assigned
438 (98.2%) exact matches, in which:
431 unique CDR3
13 unique J



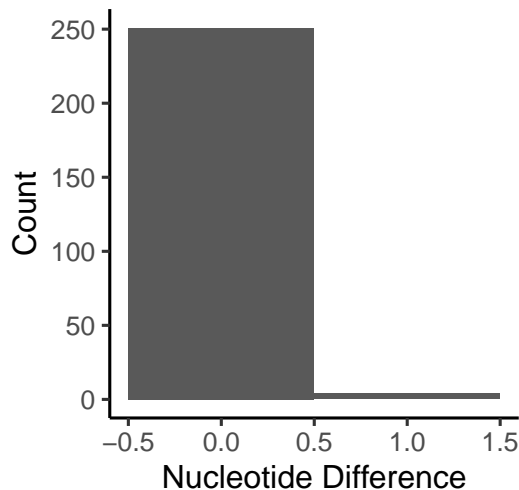
TRBV15*ap02

2796 sequences assigned
2758 (98.6%) exact matches, in which:
2713 unique CDR3
13 unique J



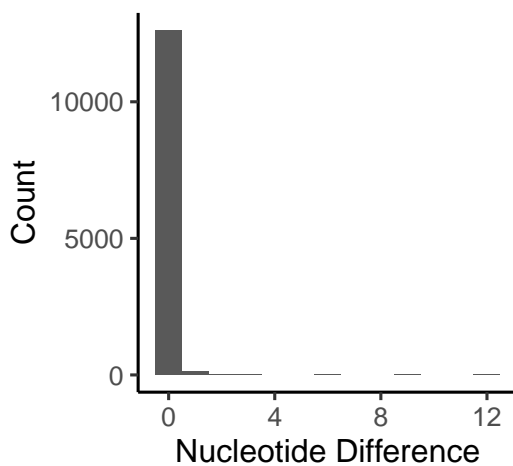
TRBV16*ap01

255 sequences assigned
251 (98.4%) exact matches, in which:
249 unique CDR3
13 unique J



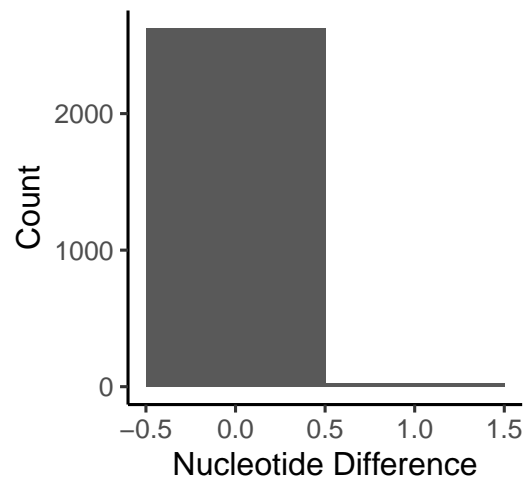
TRBV19*ap01

12774 sequences assigned
12623 (98.8%) exact matches, in which:
12475 unique CDR3
13 unique J



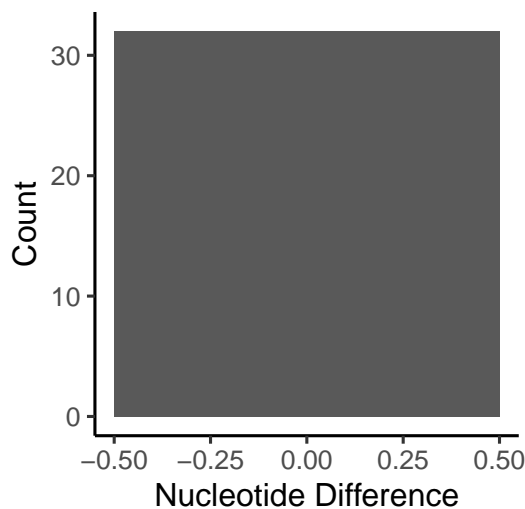
TRBV28*ap01

2649 sequences assigned
2624 (99.1%) exact matches, in which:
2576 unique CDR3
13 unique J



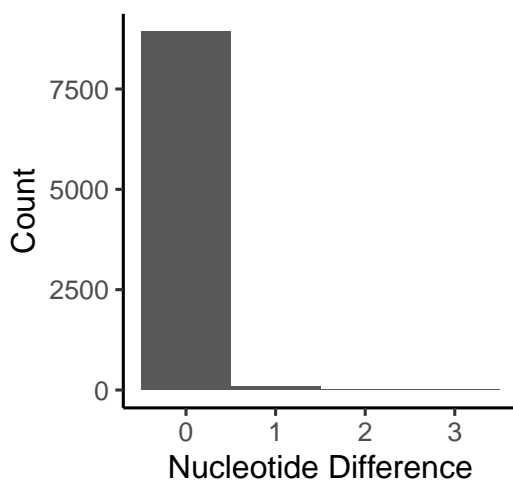
TRBV17*ap01

32 sequences assigned
32 (100%) exact matches, in which:
32 unique CDR3
11 unique J



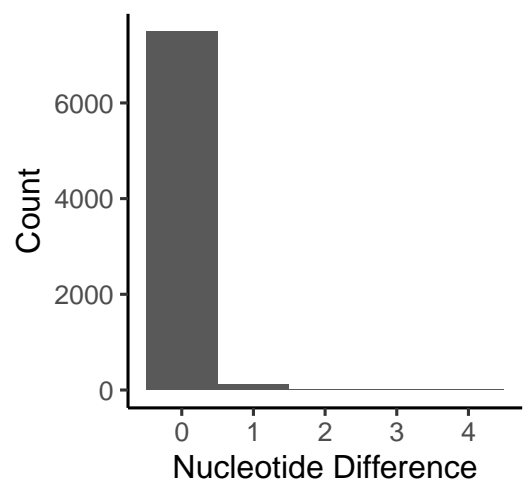
TRBV2*ap01

9035 sequences assigned
8927 (98.8%) exact matches, in which:
8721 unique CDR3
13 unique J



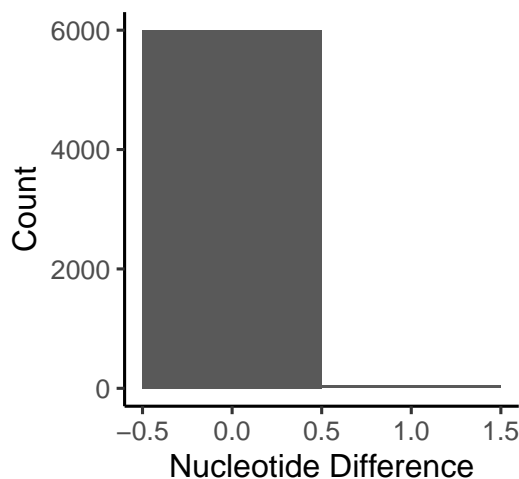
TRBV30*ap01

7607 sequences assigned
7488 (98.4%) exact matches, in which:
7349 unique CDR3
13 unique J



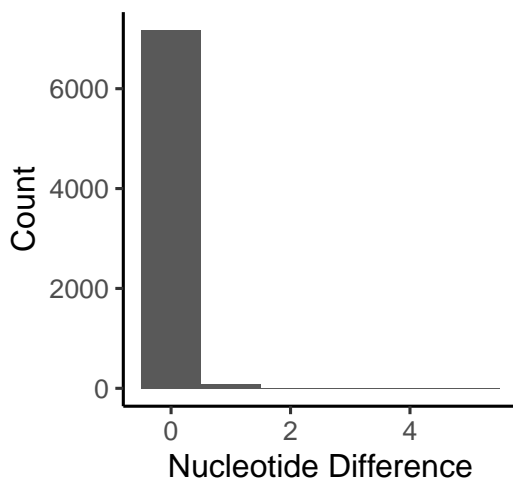
TRBV18*ap01

6052 sequences assigned
6002 (99.2%) exact matches, in which:
5927 unique CDR3
13 unique J



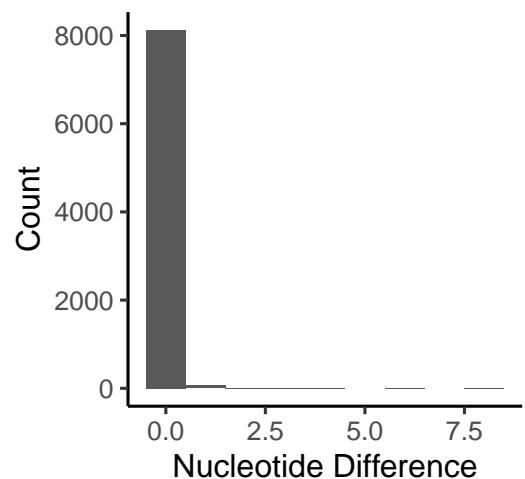
TRBV27*ap01

7268 sequences assigned
7174 (98.7%) exact matches, in which:
7030 unique CDR3
13 unique J



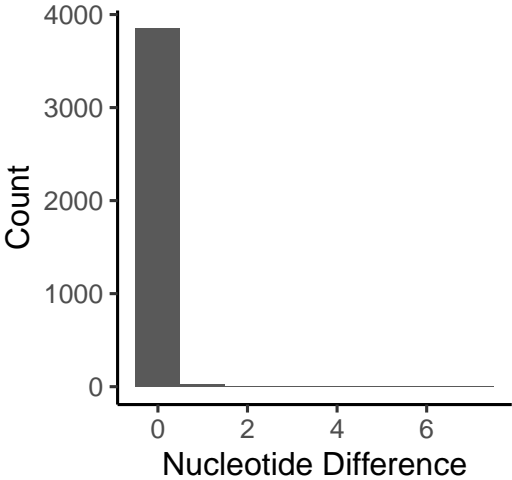
TRBV9*ap01

8197 sequences assigned
8124 (99.1%) exact matches, in which:
7986 unique CDR3
13 unique J



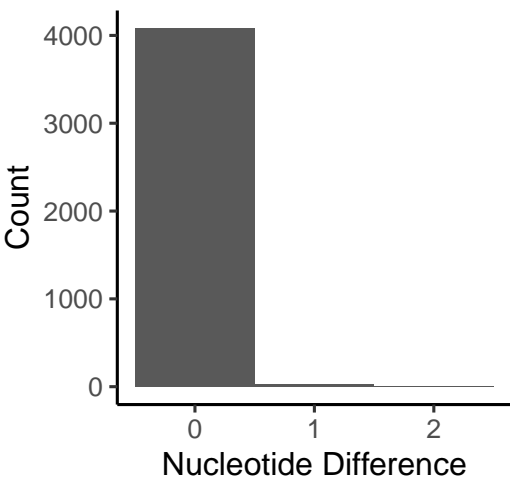
TRBV21-1*ap01

3897 sequences assigned
3851 (98.8%) exact matches, in which:
3794 unique CDR3
13 unique J



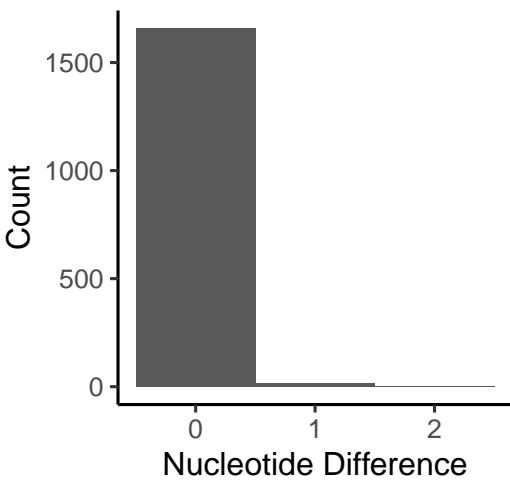
TRBV11-3*ap01

4109 sequences assigned
4080 (99.3%) exact matches, in which:
4036 unique CDR3
13 unique J



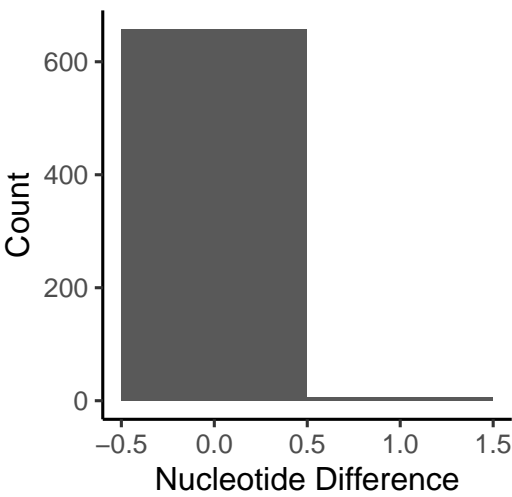
TRBV12-5*ap01

1674 sequences assigned
1658 (99%) exact matches, in which:
1617 unique CDR3
13 unique J



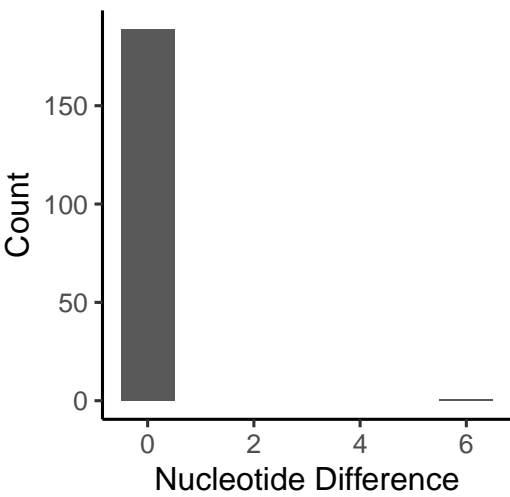
TRBV11-1*ap01

665 sequences assigned
658 (98.9%) exact matches, in which:
652 unique CDR3
13 unique J



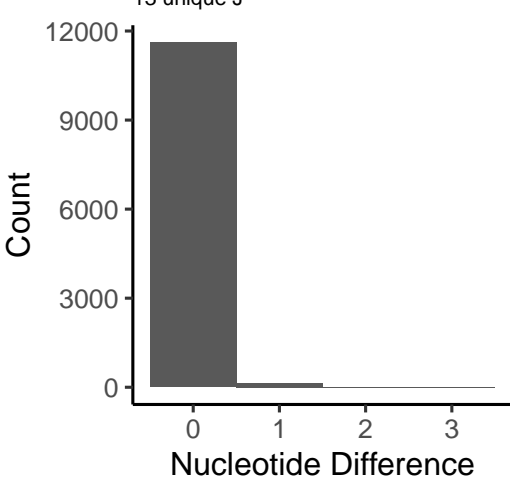
TRBV12-1*ap01

190 sequences assigned
189 (99.5%) exact matches, in which:
185 unique CDR3
13 unique J



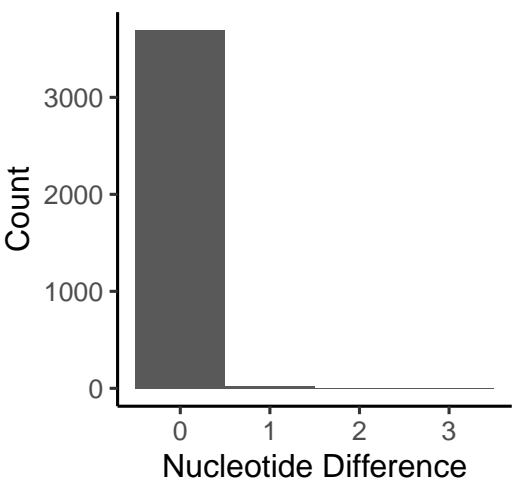
TRBV12-34*ap01

11757 sequences assigned
11614 (98.8%) exact matches, in which:
11377 unique CDR3
13 unique J



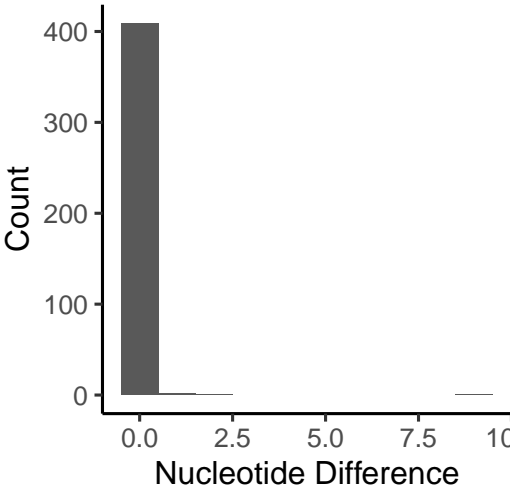
TRBV11-2*ap01

3720 sequences assigned
3694 (99.3%) exact matches, in which:
3665 unique CDR3
13 unique J



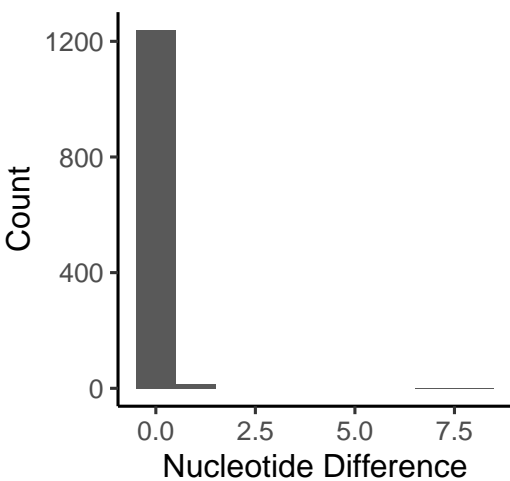
TRBV12-2*ap01

413 sequences assigned
409 (99%) exact matches, in which:
399 unique CDR3
13 unique J



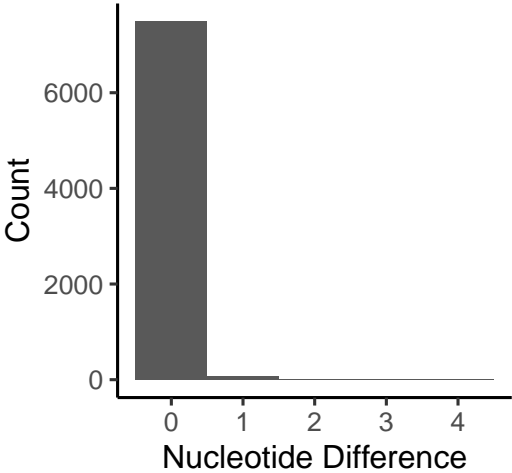
TRBV23-1*ap01

1256 sequences assigned
1239 (98.6%) exact matches, in which:
1217 unique CDR3
13 unique J



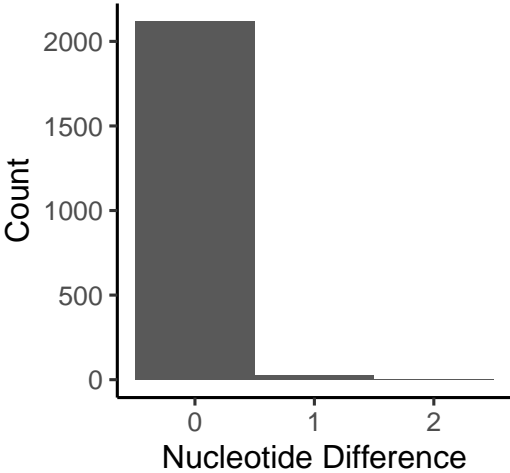
TRBV3-12*ap01

7566 sequences assigned
7491 (99%) exact matches, in which:
7382 unique CDR3
13 unique J



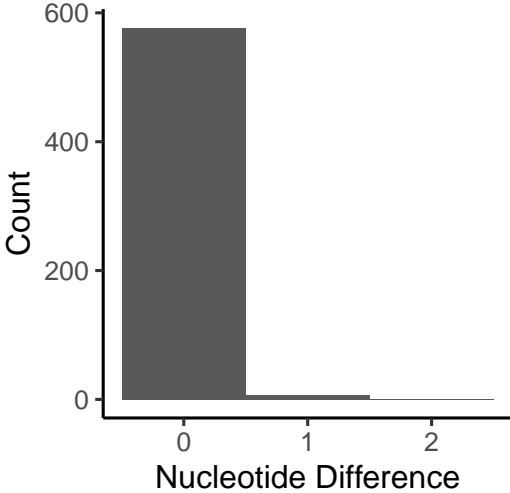
TRBV4-2*ap01

2146 sequences assigned
2118 (98.7%) exact matches, in which:
2073 unique CDR3
13 unique J



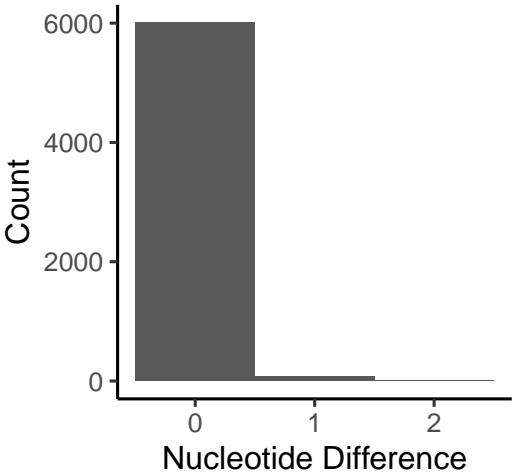
TRBV5-3*ap01

585 sequences assigned
577 (98.6%) exact matches, in which:
566 unique CDR3
13 unique J



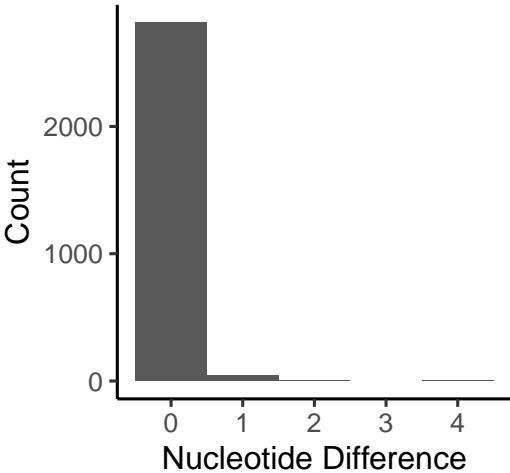
TRBV4-1*ap01

6081 sequences assigned
6007 (98.8%) exact matches, in which:
5870 unique CDR3
13 unique J



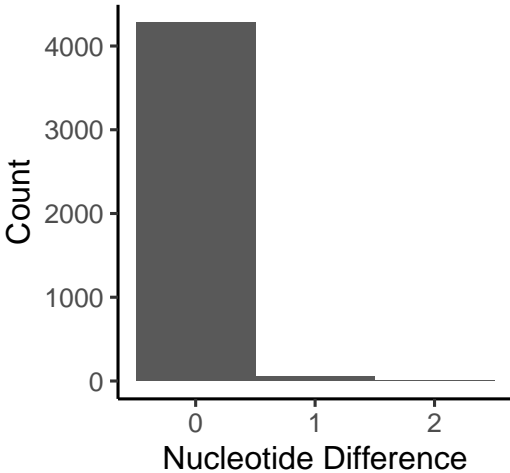
TRBV25-1*ap01

2866 sequences assigned
2815 (98.2%) exact matches, in which:
2765 unique CDR3
13 unique J



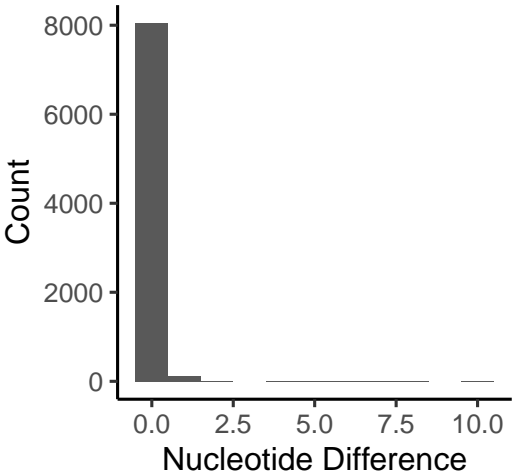
TRBV5-4*ap01

4335 sequences assigned
4278 (98.7%) exact matches, in which:
4184 unique CDR3
13 unique J



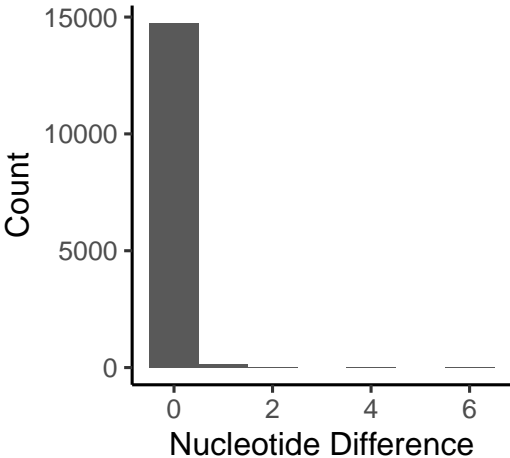
TRBV24-1*ap01

8183 sequences assigned
8049 (98.4%) exact matches, in which:
7912 unique CDR3
13 unique J



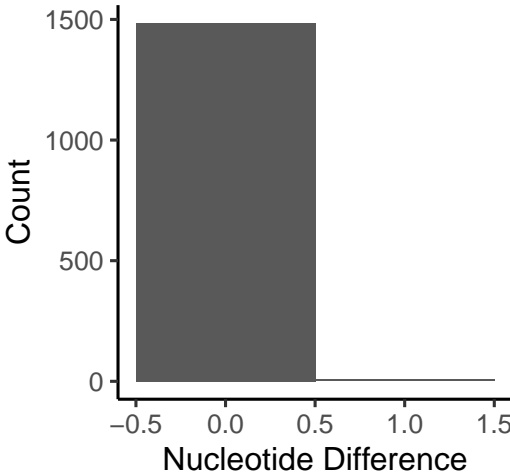
TRBV5-1*ap01

14933 sequences assigned
14755 (98.8%) exact matches, in which:
14396 unique CDR3
13 unique J



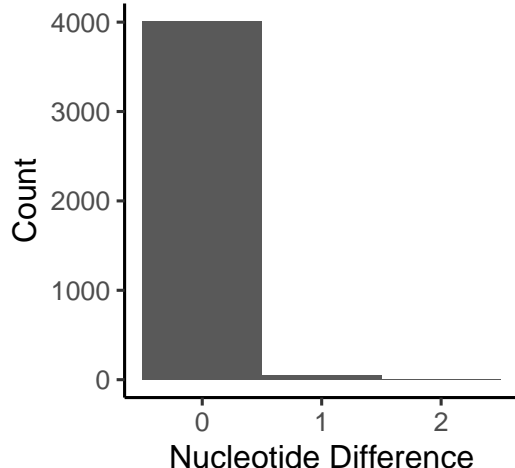
TRBV5-5*ap01

1493 sequences assigned
1485 (99.5%) exact matches, in which:
1475 unique CDR3
13 unique J



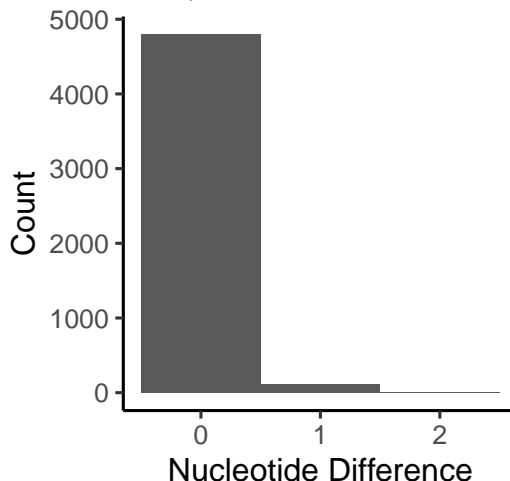
TRBV5-6*ap01

4064 sequences assigned
4008 (98.6%) exact matches, in which:
3915 unique CDR3
13 unique J



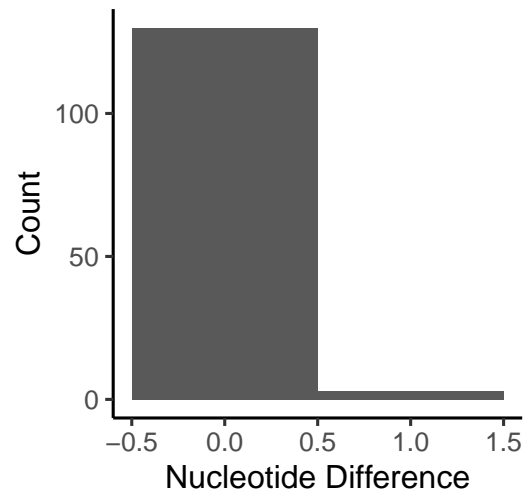
TRBV6-1*ap01

4907 sequences assigned
4797 (97.8%) exact matches, in which:
4708 unique CDR3
13 unique J



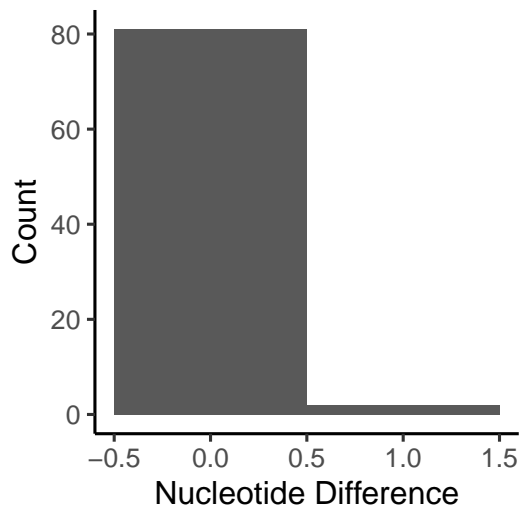
TRBV6-8*ap01

133 sequences assigned
130 (97.7%) exact matches, in which:
129 unique CDR3
13 unique J



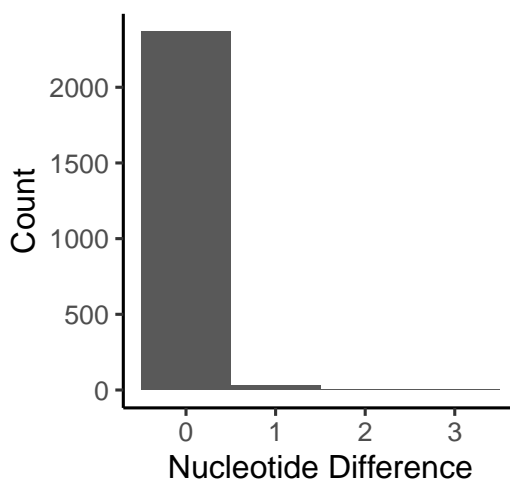
TRBV5-7*ap01

83 sequences assigned
81 (97.6%) exact matches, in which:
80 unique CDR3
13 unique J



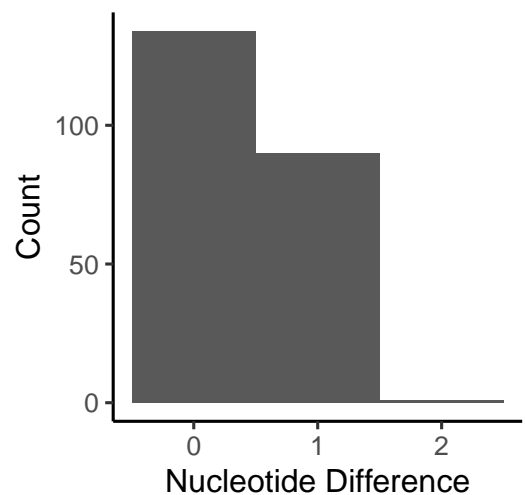
TRBV6-4*ap01

2401 sequences assigned
2367 (98.6%) exact matches, in which:
2337 unique CDR3
13 unique J



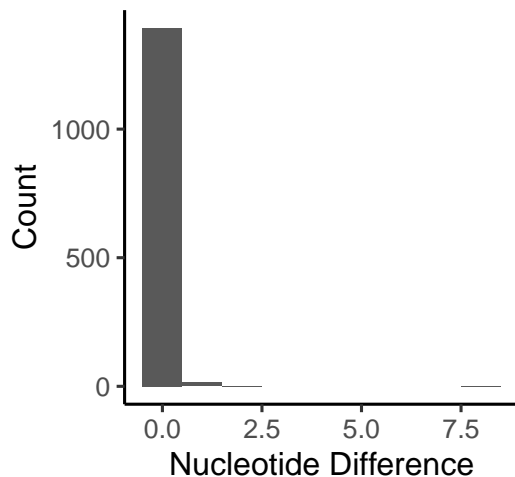
TRBV6-9*ap01

225 sequences assigned
134 (59.6%) exact matches, in which:
129 unique CDR3
13 unique J



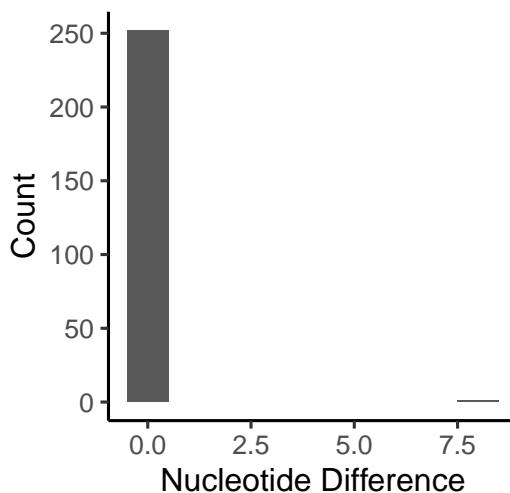
TRBV5-8*ap01

1410 sequences assigned
1393 (98.8%) exact matches, in which:
1370 unique CDR3
13 unique J



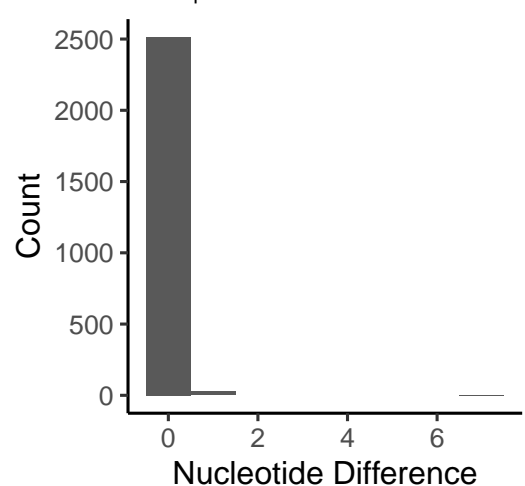
TRBV6-7*ap01

253 sequences assigned
252 (99.6%) exact matches, in which:
247 unique CDR3
13 unique J



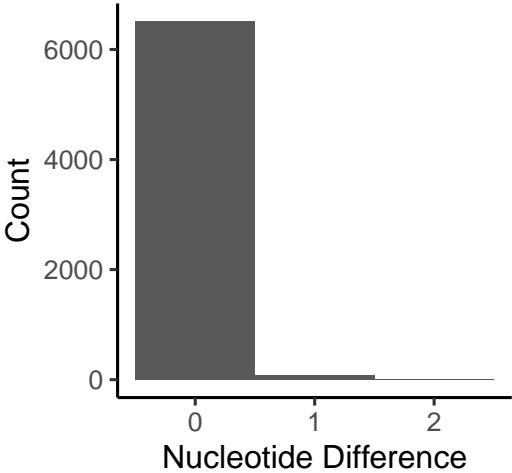
TRBV6-23*ap01

2544 sequences assigned
2514 (98.8%) exact matches, in which:
2442 unique CDR3
13 unique J



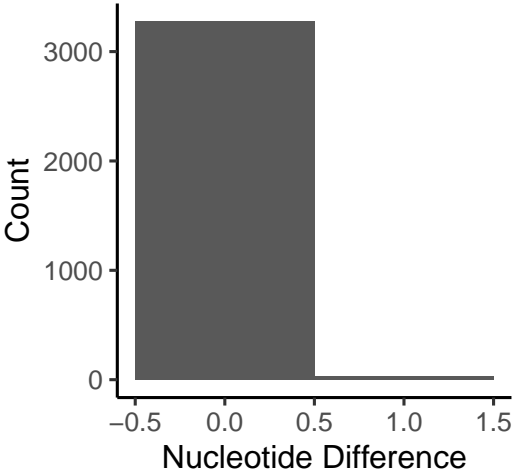
TRBV6-56*ap01

6599 sequences assigned
6510 (98.7%) exact matches, in which:
6332 unique CDR3
13 unique J



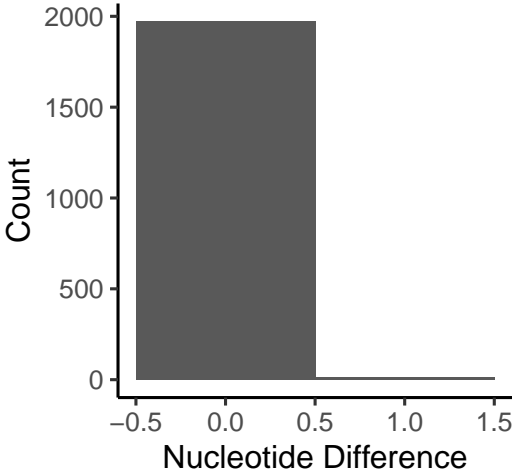
TRBV7-2*ap01

3305 sequences assigned
3276 (99.1%) exact matches, in which:
3233 unique CDR3
13 unique J



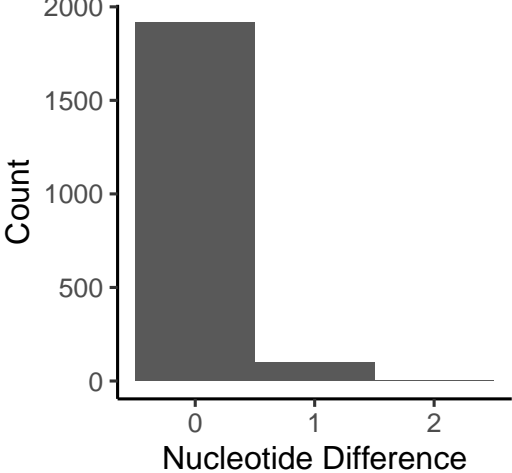
TRBV7-6*ap01

1985 sequences assigned
1972 (99.3%) exact matches, in which:
1930 unique CDR3
13 unique J



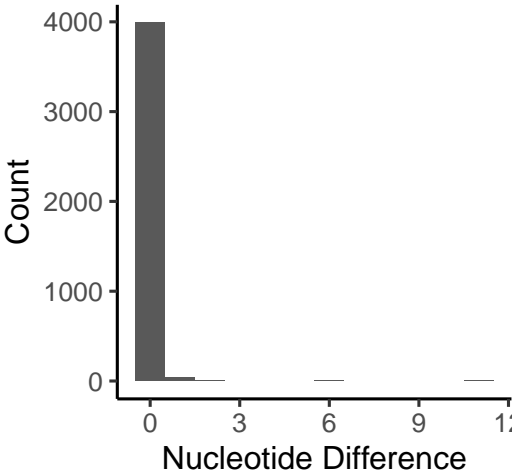
TRBV6-56*ap02

2015 sequences assigned
1915 (95%) exact matches, in which:
1866 unique CDR3
13 unique J



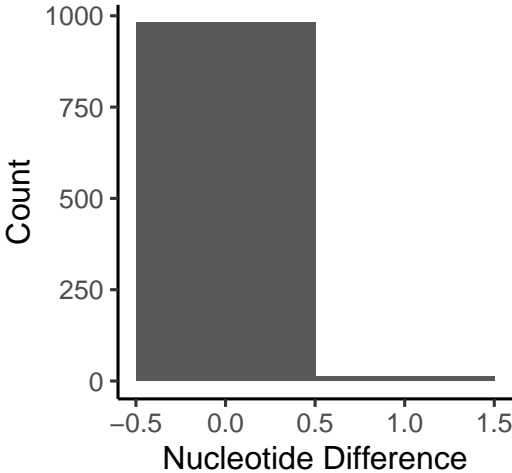
TRBV7-3*ap01

4036 sequences assigned
3990 (98.9%) exact matches, in which:
3927 unique CDR3
13 unique J



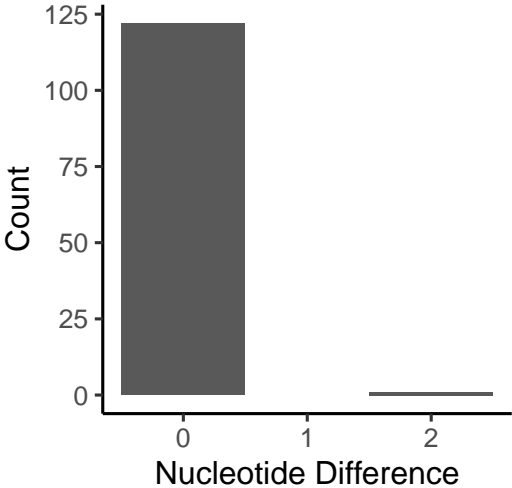
TRBV7-7*ap01_C315T

994 sequences assigned
981 (98.7%) exact matches, in which:
960 unique CDR3
13 unique J



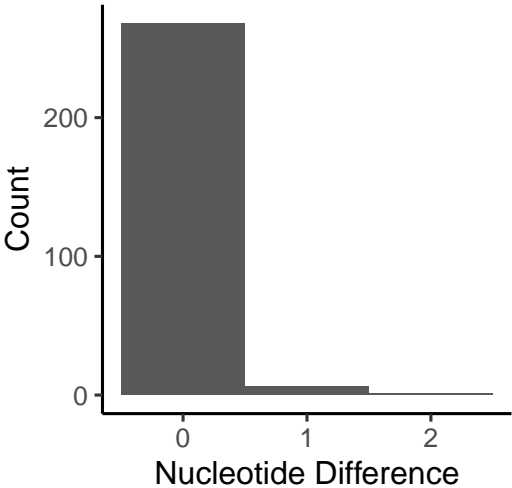
TRBV7-1*ap01_G291C_

123 sequences assigned
122 (99.2%) exact matches, in which:
122 unique CDR3
12 unique J



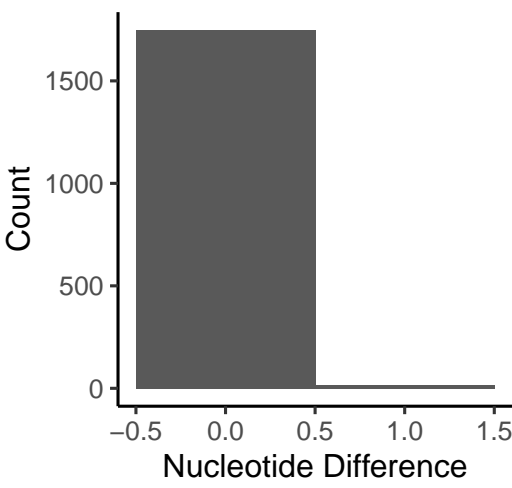
TRBV7-4*ap01

275 sequences assigned
268 (97.5%) exact matches, in which:
267 unique CDR3
13 unique J



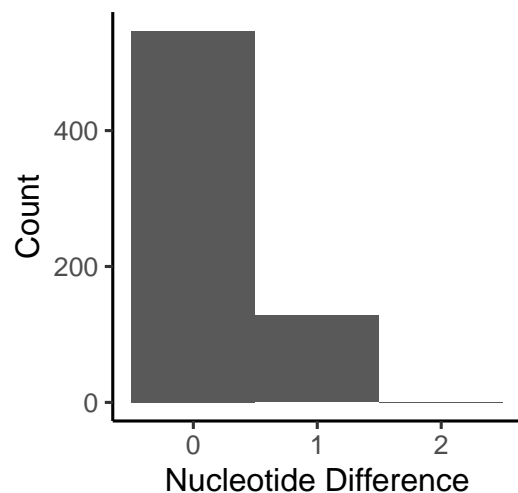
TRBV7-8*ap01

1764 sequences assigned
1748 (99.1%) exact matches, in which:
1711 unique CDR3
13 unique J



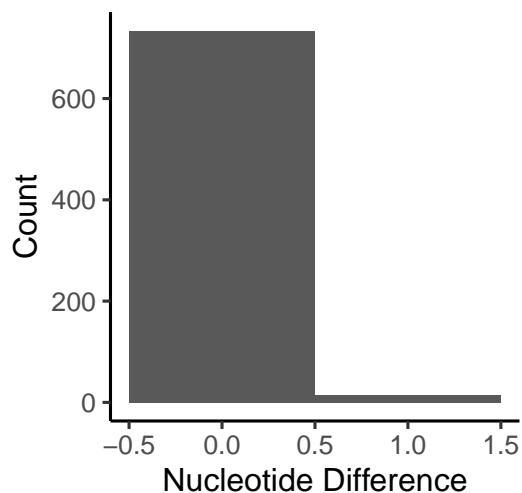
TRBV7-8*ap03

676 sequences assigned
547 (80.9%) exact matches, in which:
539 unique CDR3
13 unique J



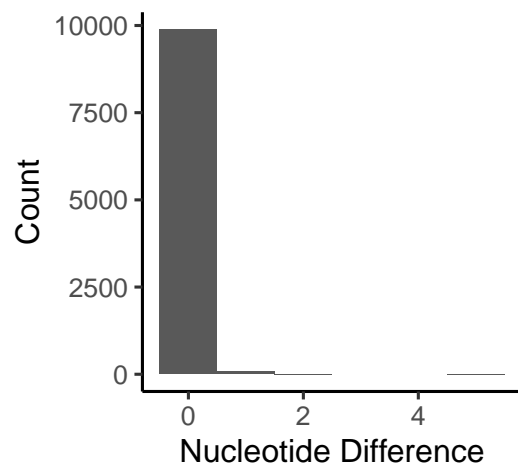
TRBV29-1*ap02

748 sequences assigned
734 (98.1%) exact matches, in which:
726 unique CDR3
13 unique J



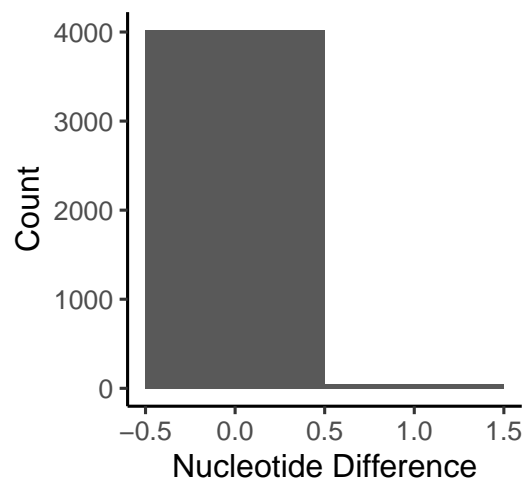
TRBV7-9*ap01

9962 sequences assigned
9886 (99.2%) exact matches, in which:
9746 unique CDR3
13 unique J

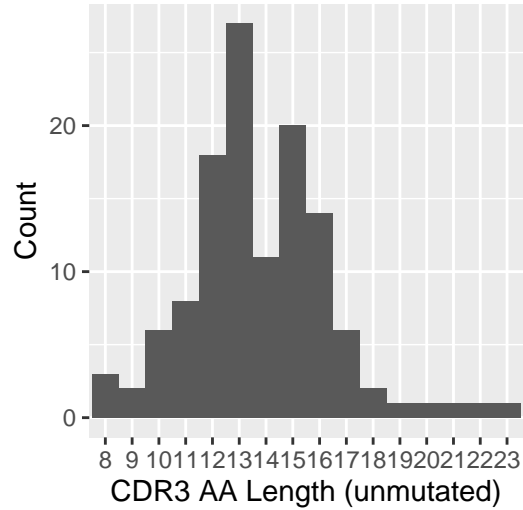


TRBV29-1*ap01

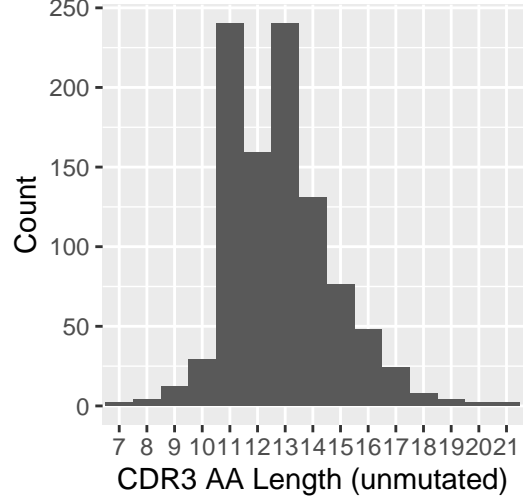
4069 sequences assigned
4022 (98.8%) exact matches, in which:
3923 unique CDR3
13 unique J



TRBV7-1*ap01_G291C_T296C



TRBV7-7*ap01_C315T





[illegible]