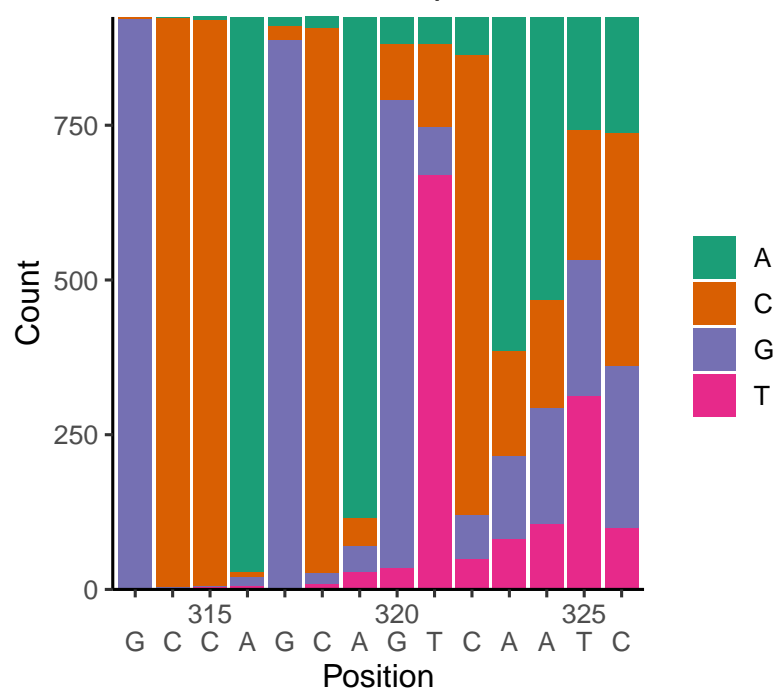
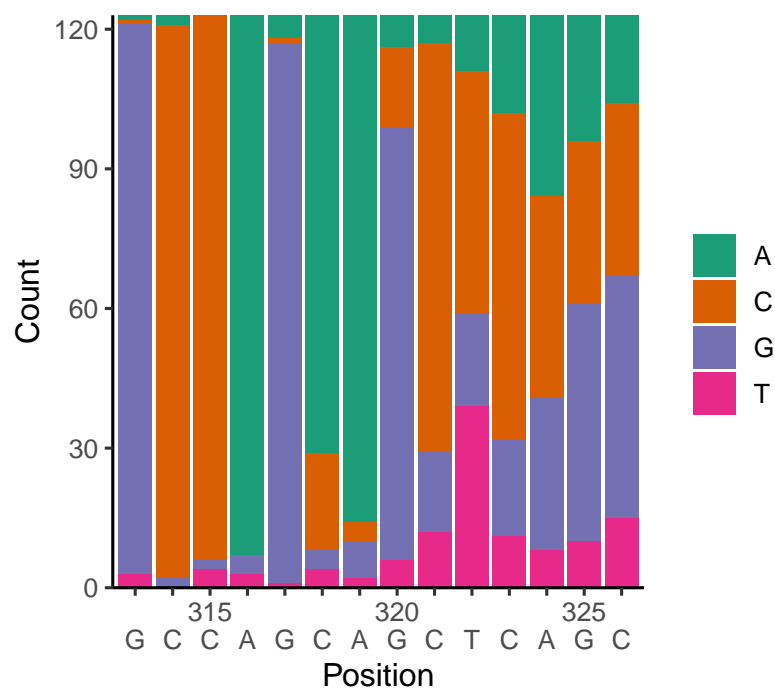


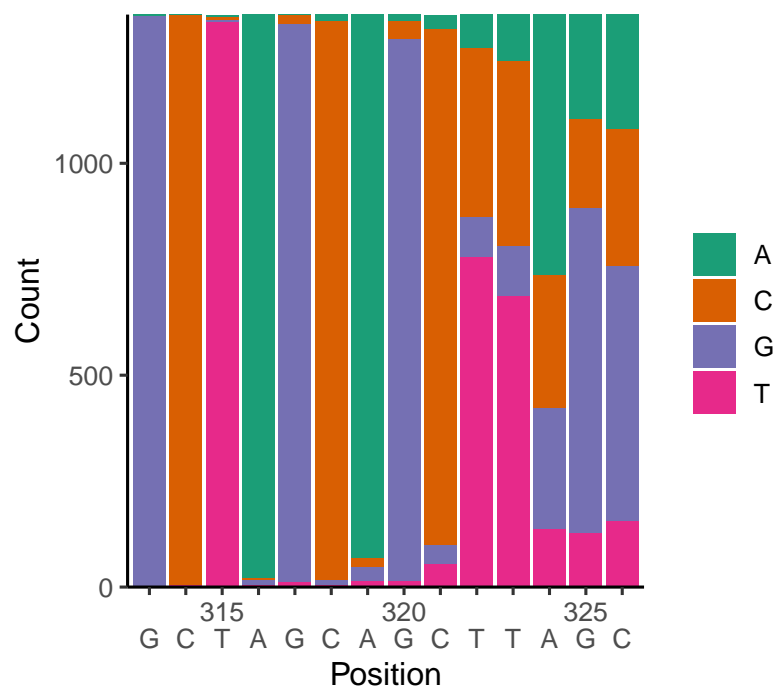
Gene TRBV23-1*ap01_T304C



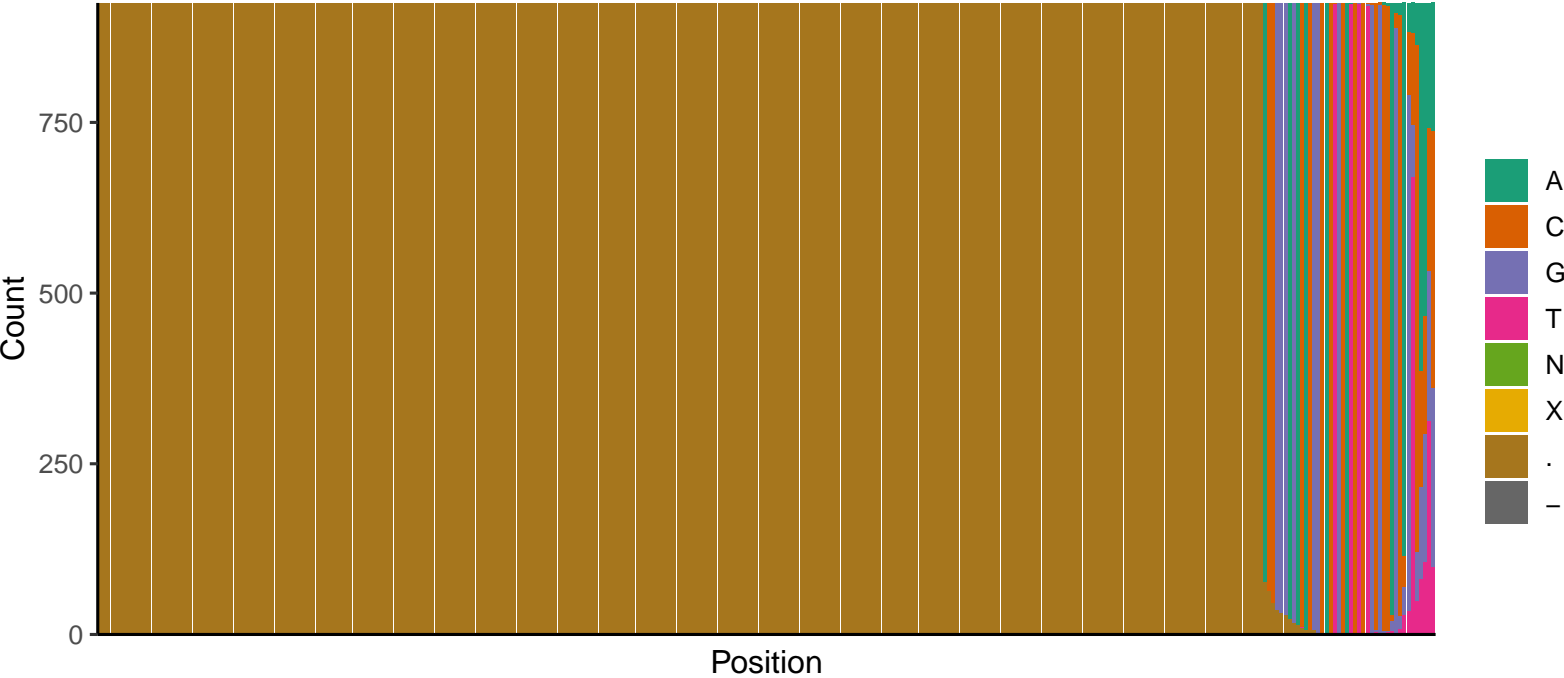
Gene TRBV7-1*ap01_T296C



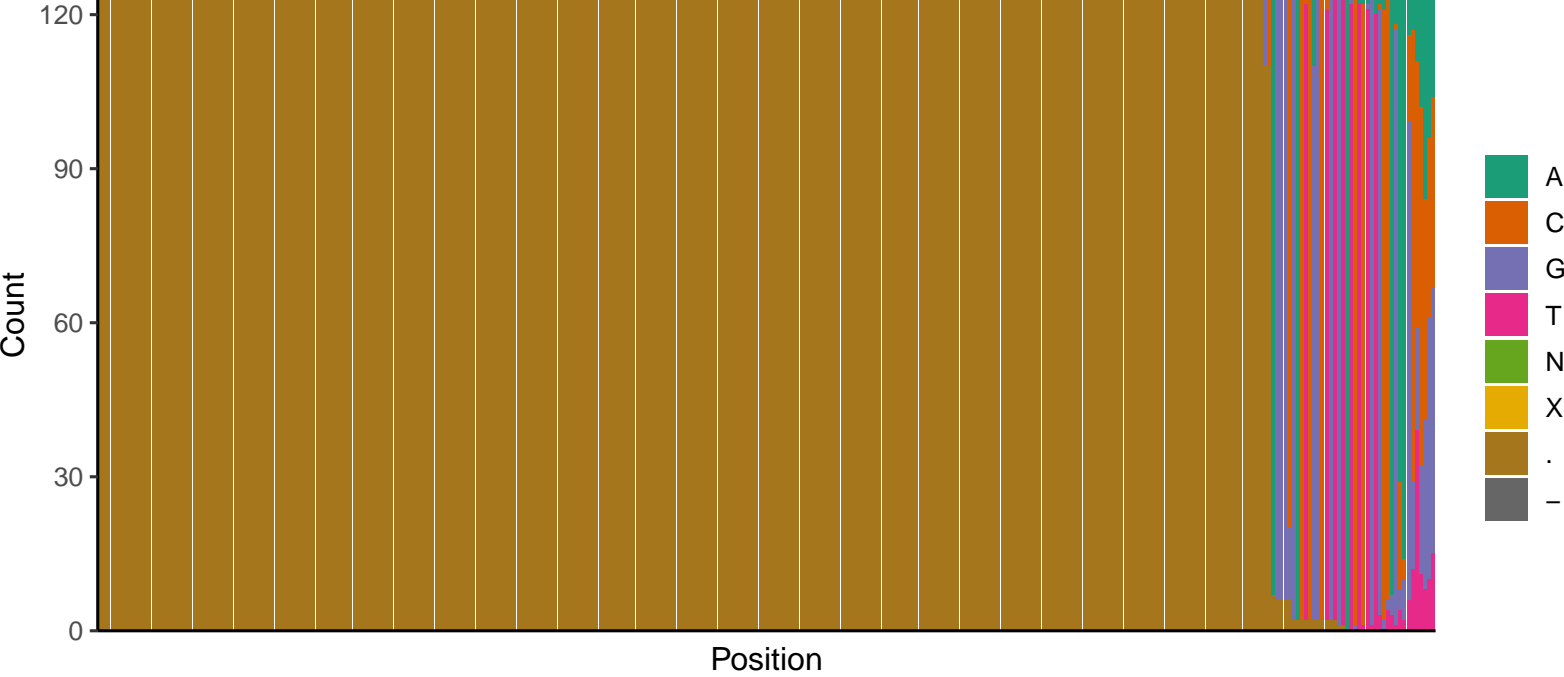
Gene TRBV7-7*ap01_C315T



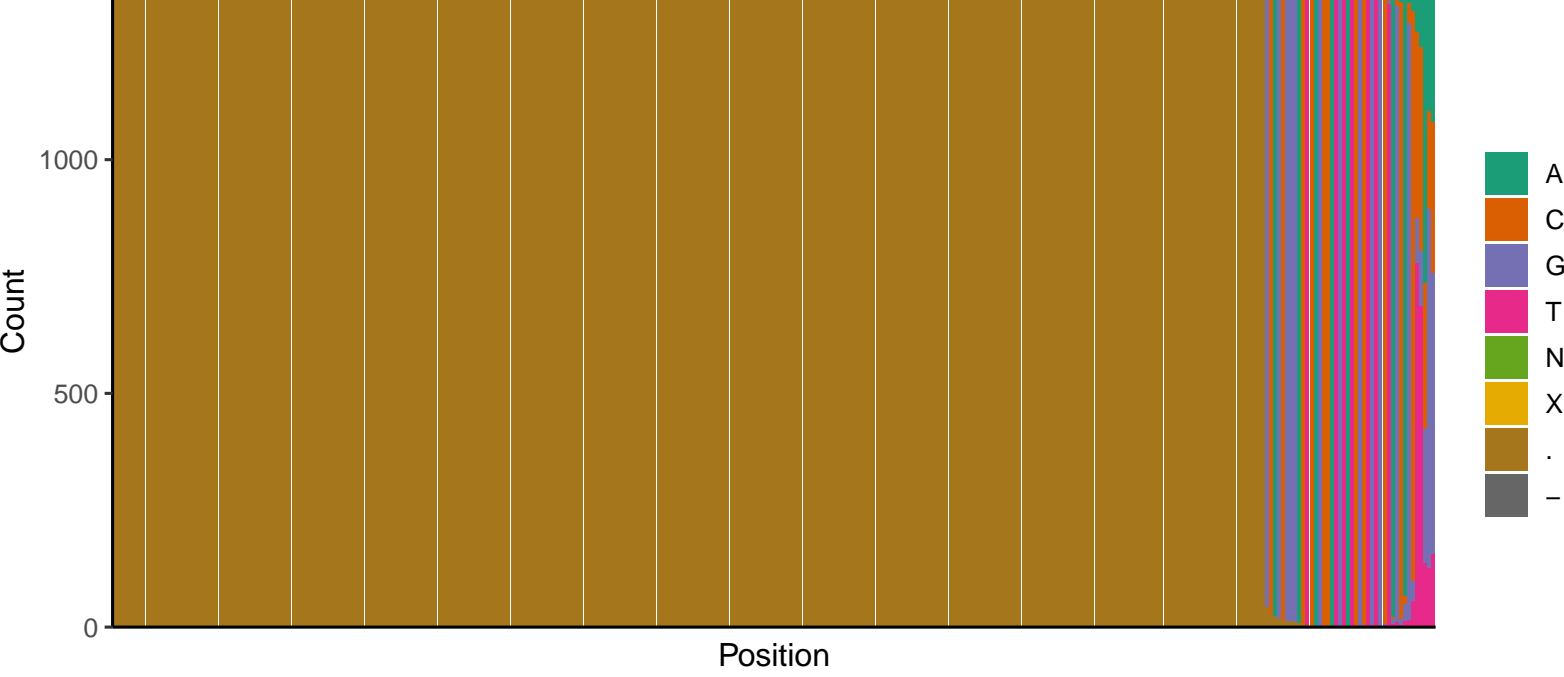
Gene TRBV23-1*ap01_T304C



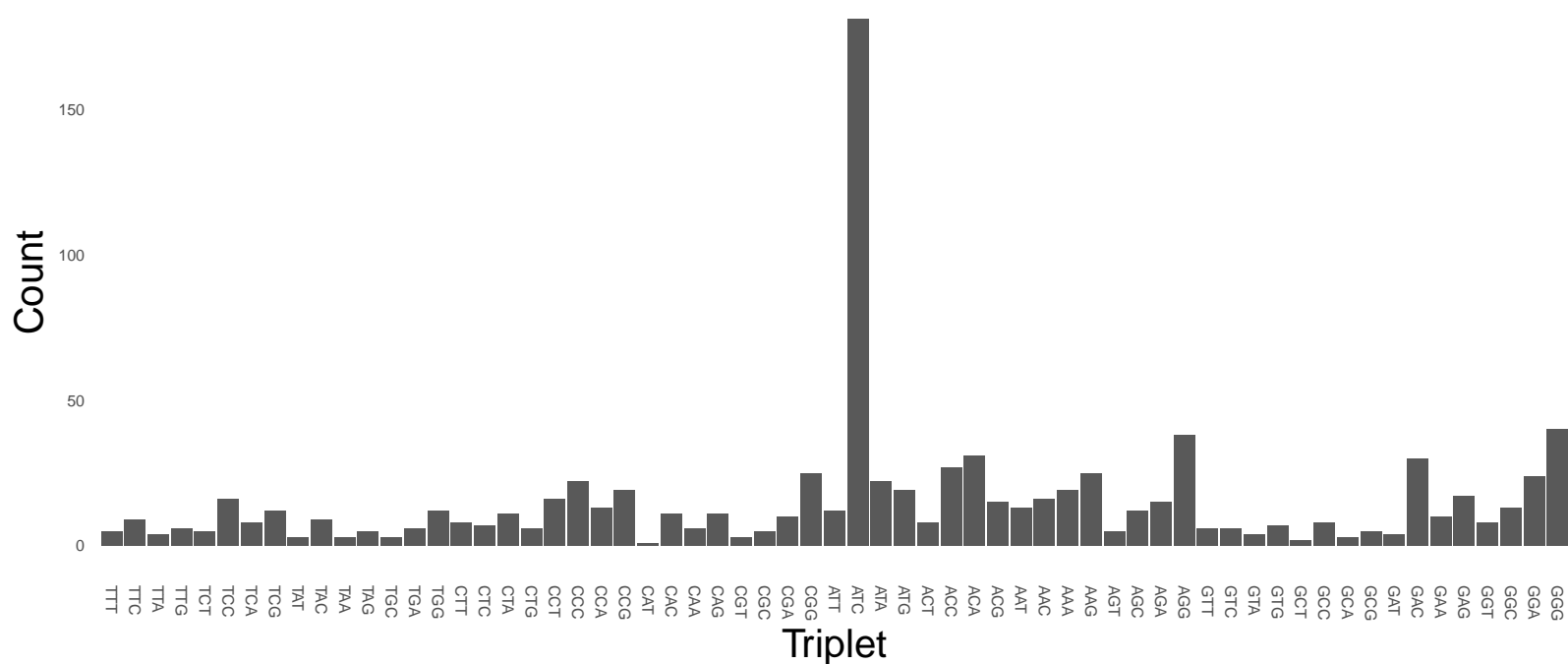
Gene TRBV7-1*ap01_T296C



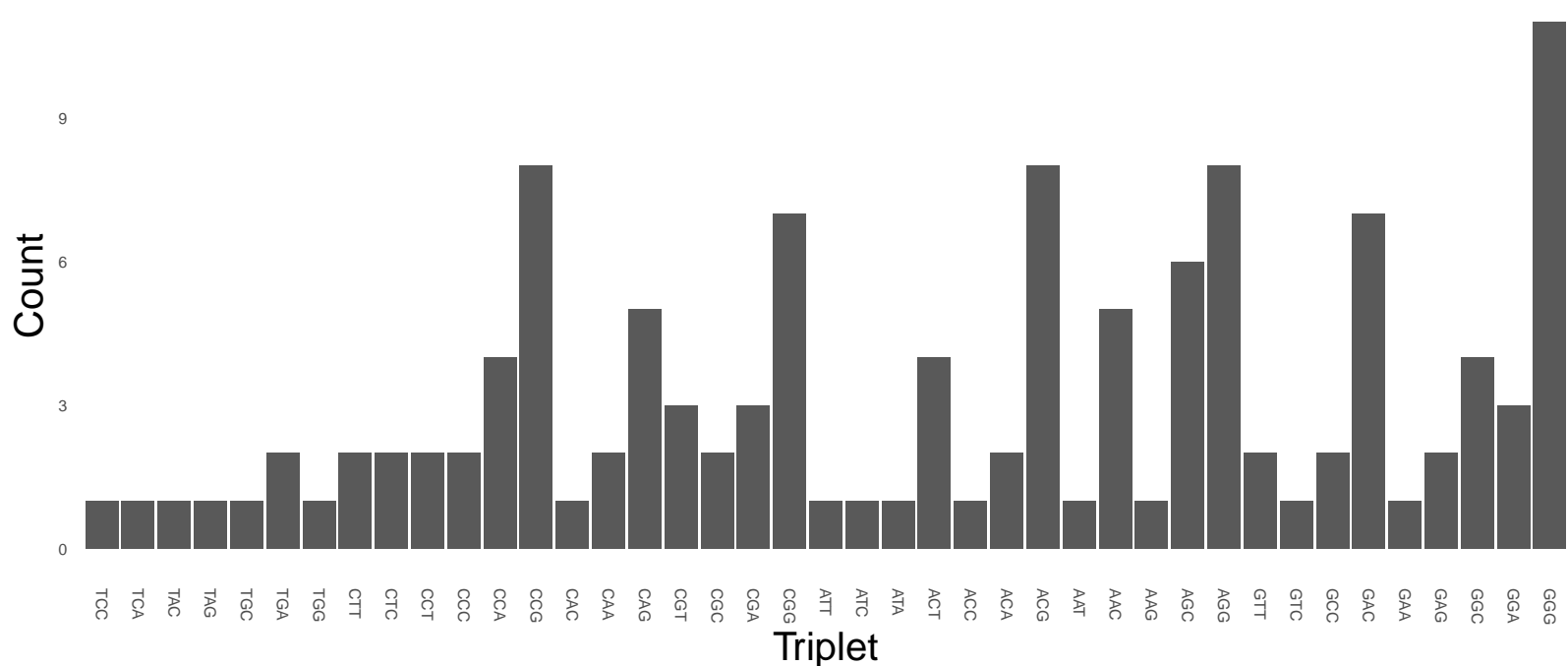
Gene TRBV7-7*ap01_C315T



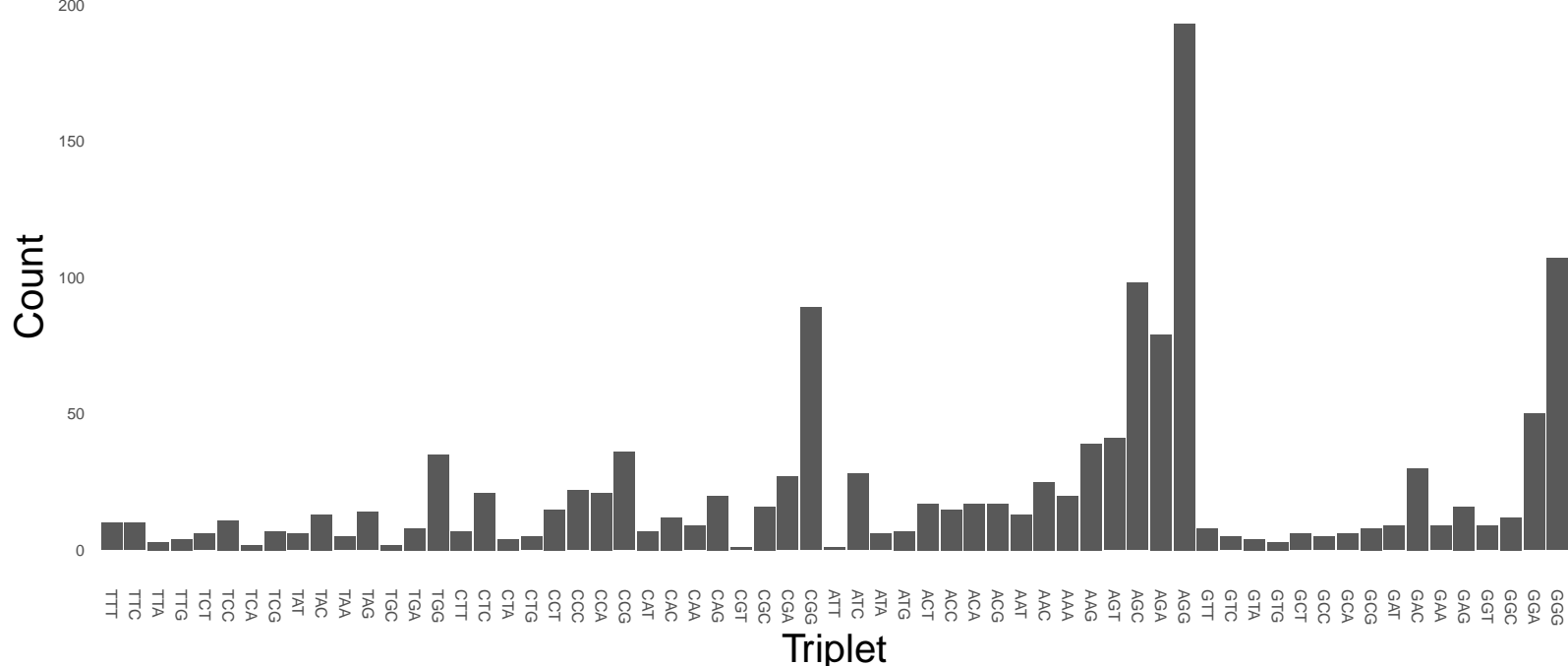
TRBV23–1*ap01_T304C– Final 3 nucleotides as a triplet



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

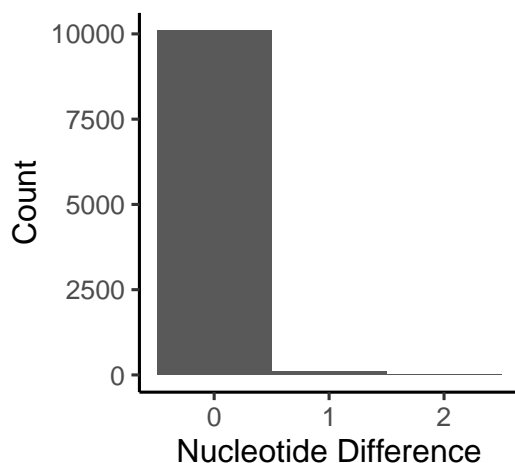


TRBV7–7*ap01_C315T– Final 3 nucleotides as a triplet



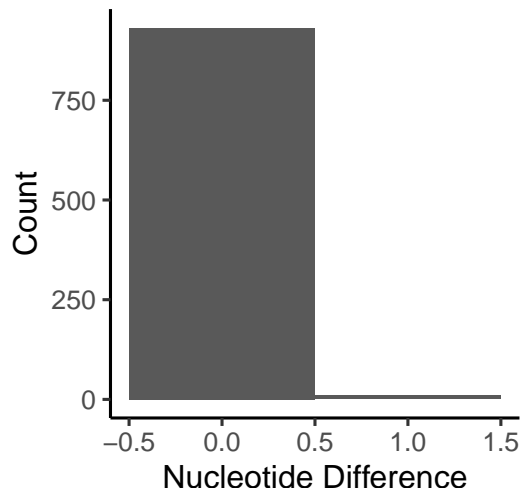
TRBV20-1*ap01

10222 sequences assigned
10110 (98.9%) exact matches, in which:
9962 unique CDR3
13 unique J



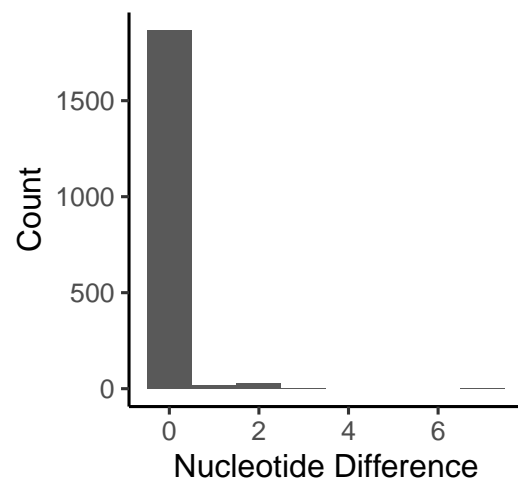
TRBV10-2*ap01

942 sequences assigned
932 (98.9%) exact matches, in which:
917 unique CDR3
13 unique J



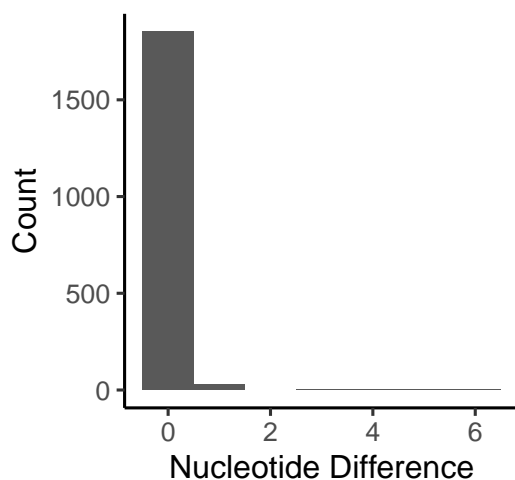
TRBV13*ap01

1913 sequences assigned
1866 (97.5%) exact matches, in which:
1832 unique CDR3
13 unique J



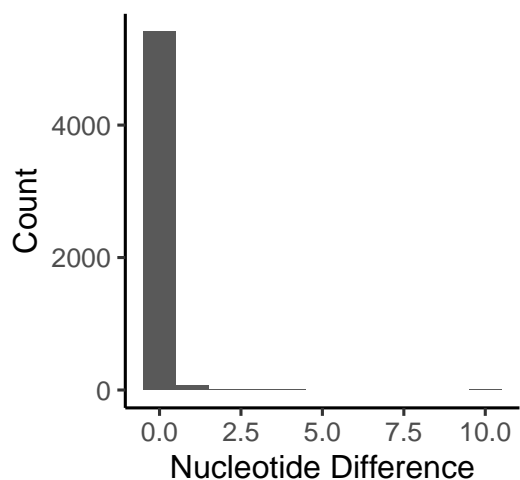
TRBV10-1*ap01

1883 sequences assigned
1852 (98.4%) exact matches, in which:
1812 unique CDR3
13 unique J



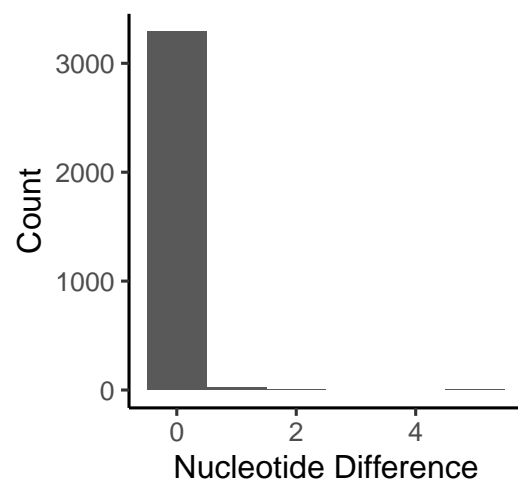
TRBV10-3*ap01

5484 sequences assigned
5410 (98.7%) exact matches, in which:
5281 unique CDR3
13 unique J



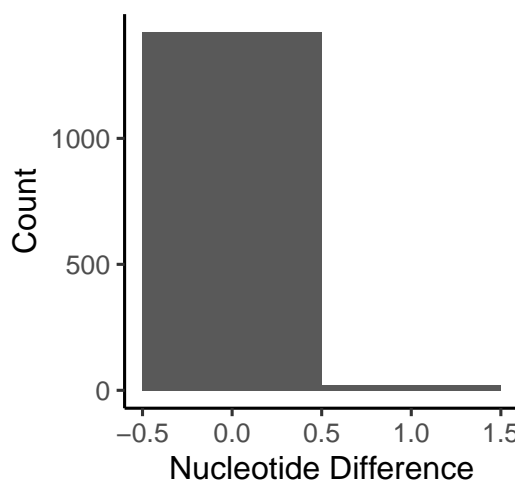
TRBV14*ap01

3312 sequences assigned
3290 (99.3%) exact matches, in which:
3227 unique CDR3
13 unique J



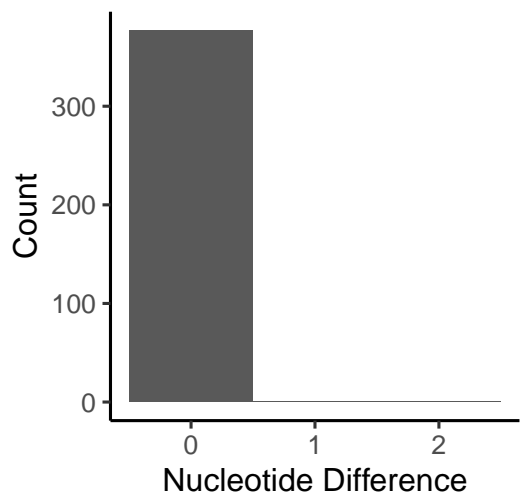
TRBV20-1*ap02

1442 sequences assigned
1422 (98.6%) exact matches, in which:
1396 unique CDR3
13 unique J



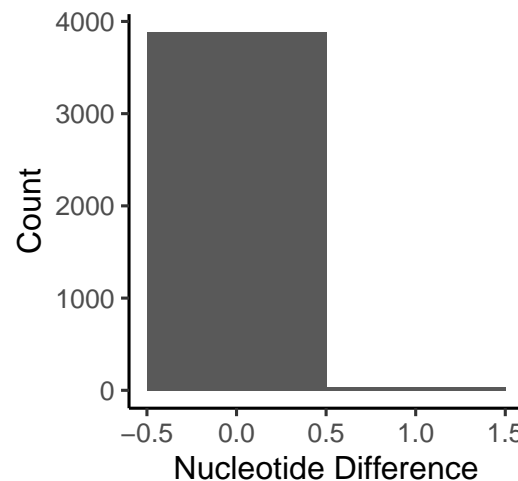
TRBV1*ap01

379 sequences assigned
377 (99.5%) exact matches, in which:
369 unique CDR3
13 unique J



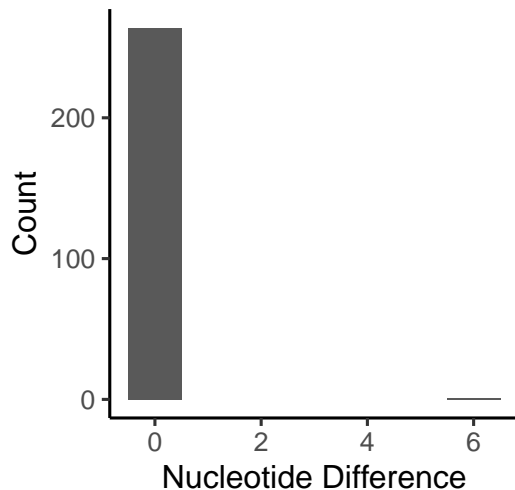
TRBV15*ap02

3924 sequences assigned
3885 (99%) exact matches, in which:
3810 unique CDR3
13 unique J



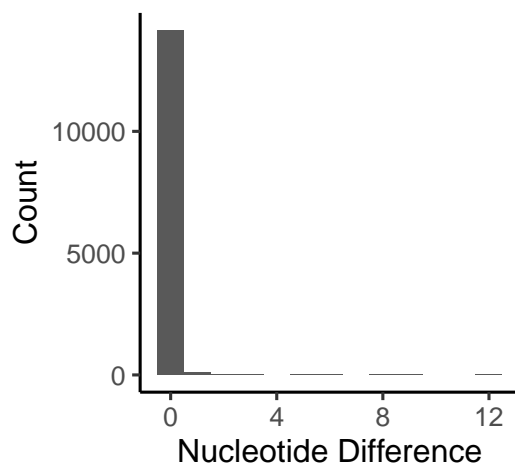
TRBV16*ap01

265 sequences assigned
264 (99.6%) exact matches, in which:
264 unique CDR3
13 unique J



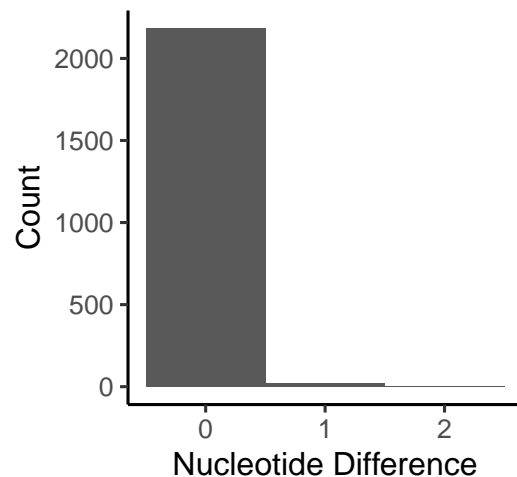
TRBV19*ap01

14282 sequences assigned
14155 (99.1%) exact matches, in which:
14021 unique CDR3
13 unique J



TRBV28*ap01

2207 sequences assigned
2183 (98.9%) exact matches, in which:
2147 unique CDR3
13 unique J



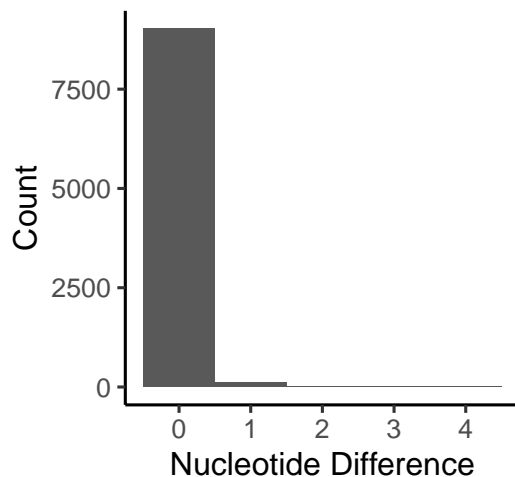
TRBV17*ap01

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



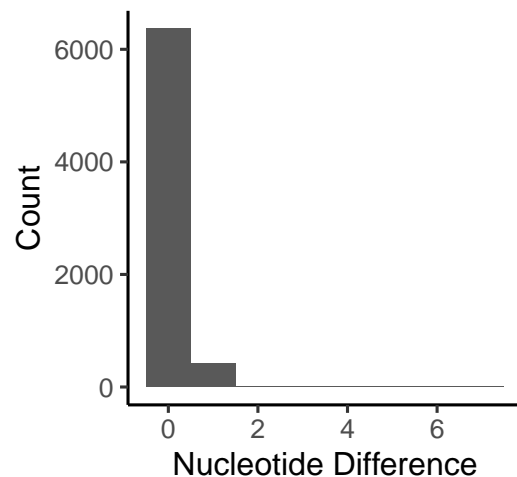
TRBV2*ap01

9145 sequences assigned
9022 (98.7%) exact matches, in which:
8799 unique CDR3
13 unique J



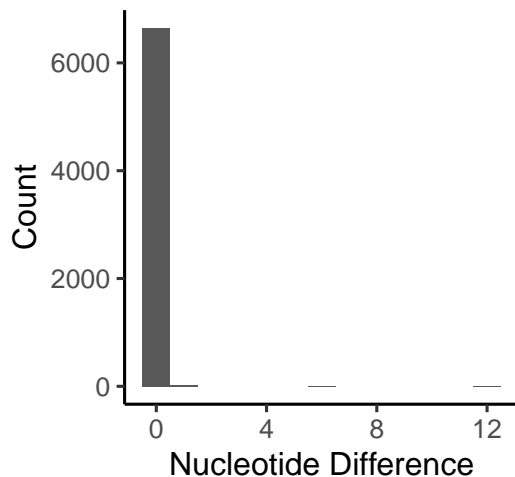
TRBV30*ap01

6801 sequences assigned
6366 (93.6%) exact matches, in which:
6245 unique CDR3
13 unique J



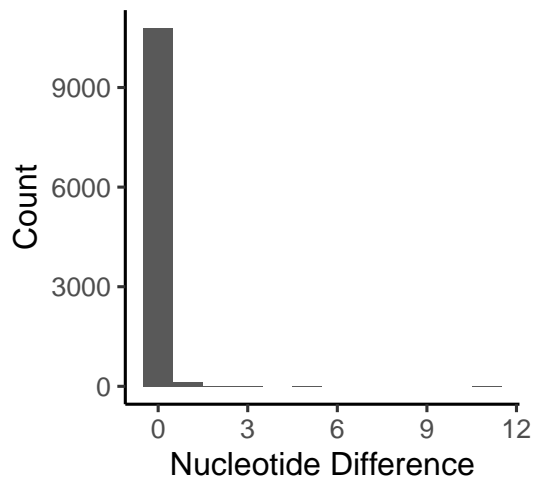
TRBV18*ap01

6676 sequences assigned
6646 (99.6%) exact matches, in which:
6574 unique CDR3
13 unique J



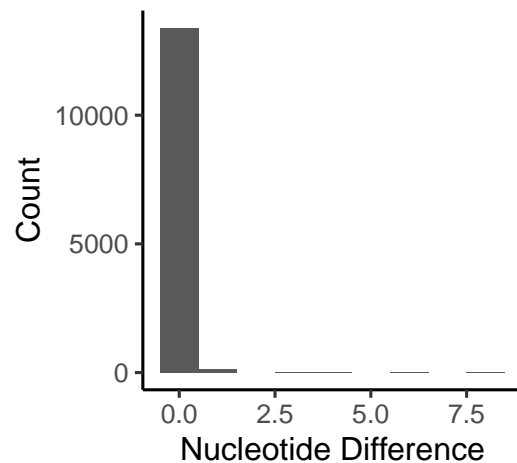
TRBV27*ap01

10929 sequences assigned
10791 (98.7%) exact matches, in which:
10548 unique CDR3
13 unique J



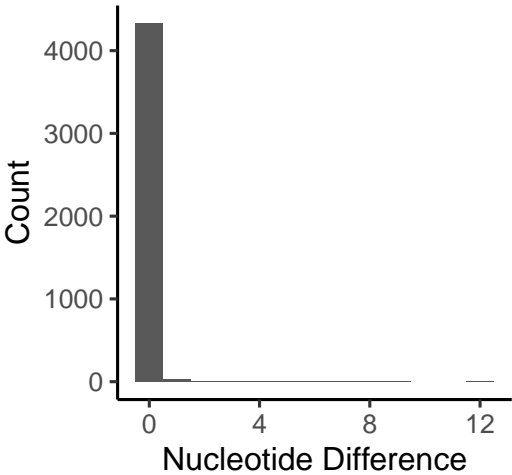
TRBV9*ap01

13528 sequences assigned
13396 (99%) exact matches, in which:
13194 unique CDR3
13 unique J



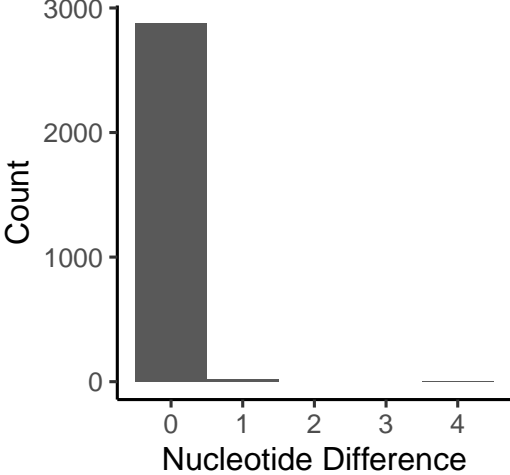
TRBV21-1*ap01

4385 sequences assigned
4329 (98.7%) exact matches, in which:
4271 unique CDR3
13 unique J



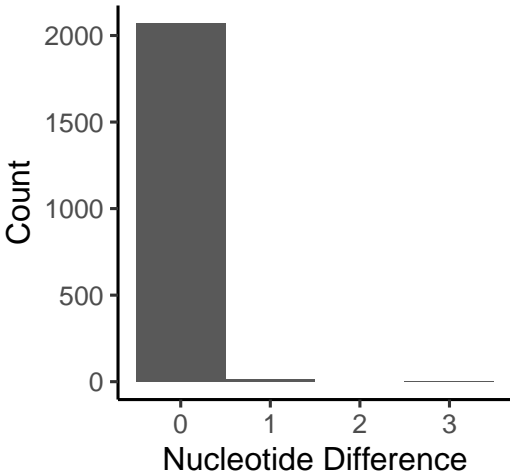
TRBV11-3*ap01

2896 sequences assigned
2876 (99.3%) exact matches, in which:
2825 unique CDR3
13 unique J



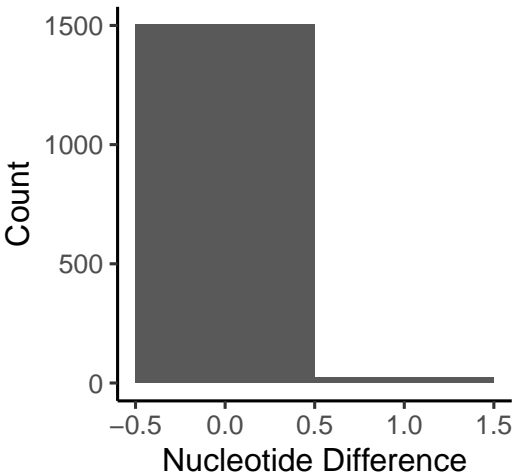
TRBV12-5*ap01

2086 sequences assigned
2070 (99.2%) exact matches, in which:
2034 unique CDR3
13 unique J



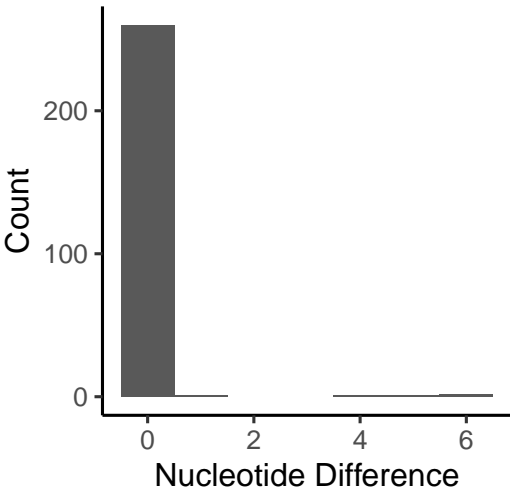
TRBV11-1*ap01

1526 sequences assigned
1503 (98.5%) exact matches, in which:
1477 unique CDR3
13 unique J



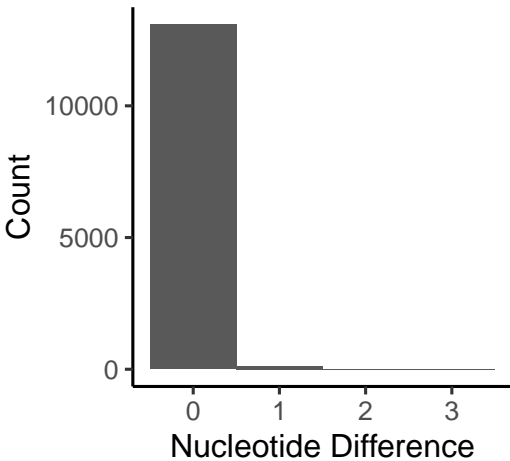
TRBV12-1*ap01

265 sequences assigned
260 (98.1%) exact matches, in which:
256 unique CDR3
13 unique J



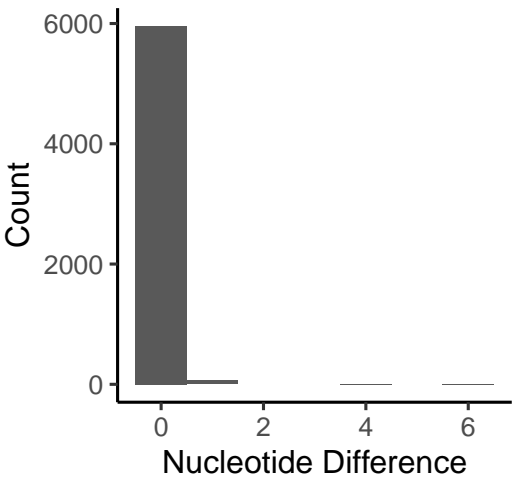
TRBV12-34*ap01

13219 sequences assigned
13089 (99%) exact matches, in which:
12811 unique CDR3
14 unique J



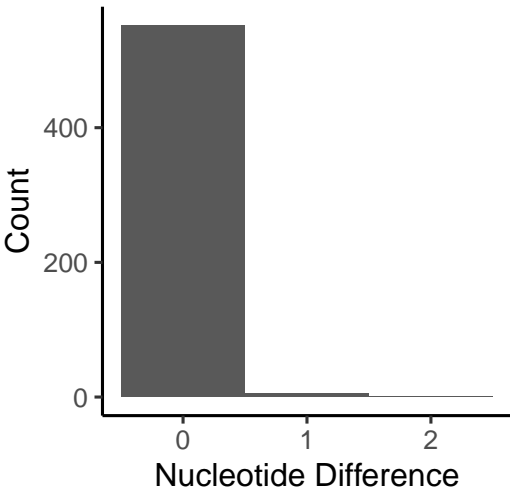
TRBV11-2*ap01

6026 sequences assigned
5958 (98.9%) exact matches, in which:
5840 unique CDR3
13 unique J



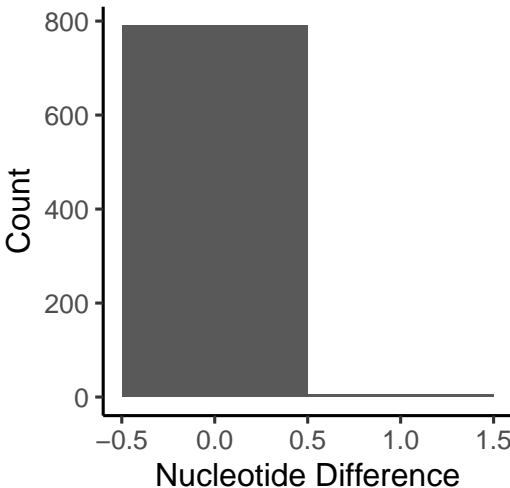
TRBV12-2*ap01

558 sequences assigned
552 (98.9%) exact matches, in which:
547 unique CDR3
13 unique J



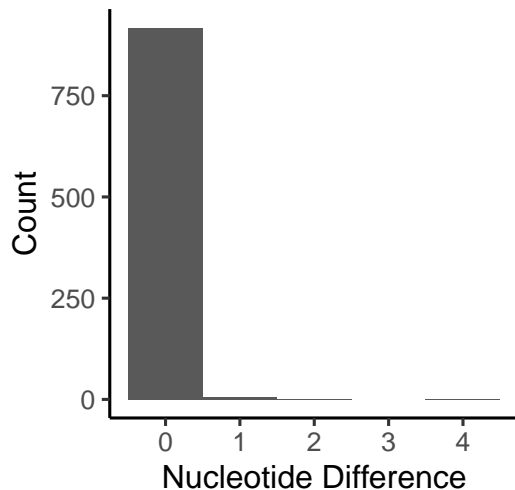
TRBV23-1*ap01

796 sequences assigned
791 (99.4%) exact matches, in which:
774 unique CDR3
13 unique J



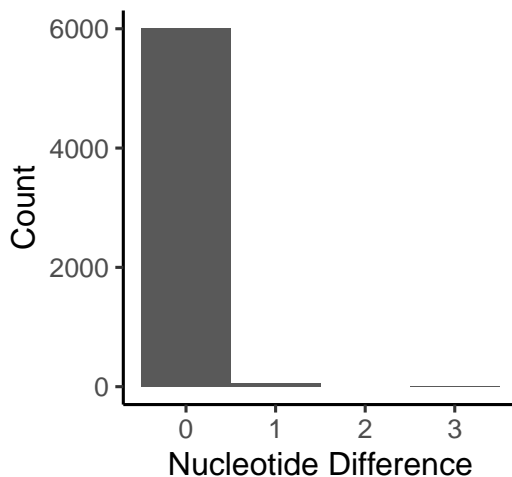
TRBV23-1*ap01_T304C

925 sequences assigned
918 (99.2%) exact matches, in which:
905 unique CDR3
13 unique J



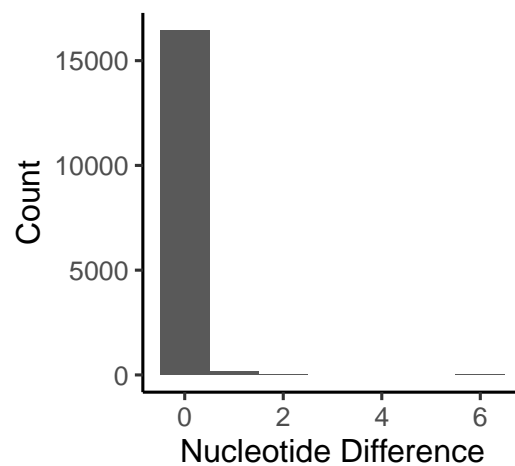
TRBV4-1*ap01

6063 sequences assigned
6006 (99.1%) exact matches, in which:
5859 unique CDR3
13 unique J



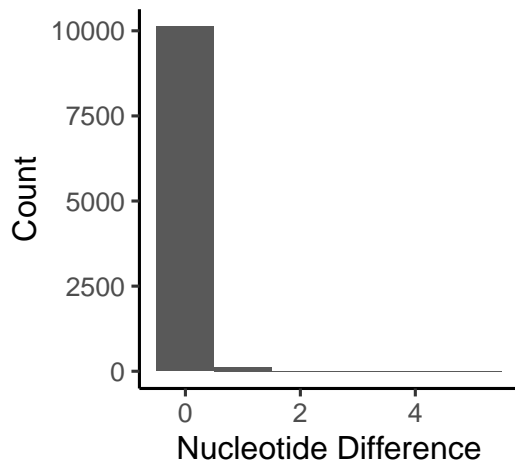
TRBV5-1*ap01

16632 sequences assigned
16456 (98.9%) exact matches, in which:
16063 unique CDR3
13 unique J



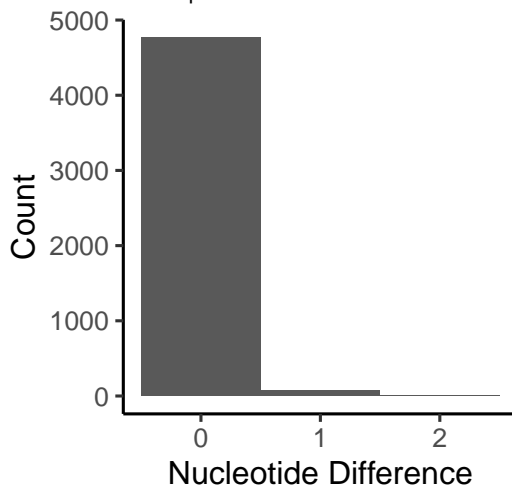
TRBV3-12*ap01

10266 sequences assigned
10127 (98.6%) exact matches, in which:
9931 unique CDR3
13 unique J



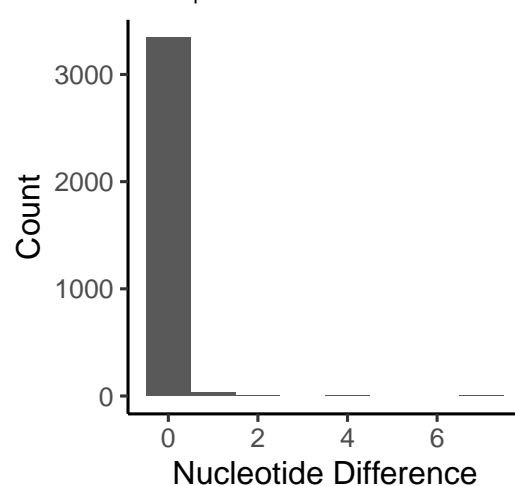
TRBV4-2*ap01

4835 sequences assigned
4765 (98.6%) exact matches, in which:
4661 unique CDR3
13 unique J



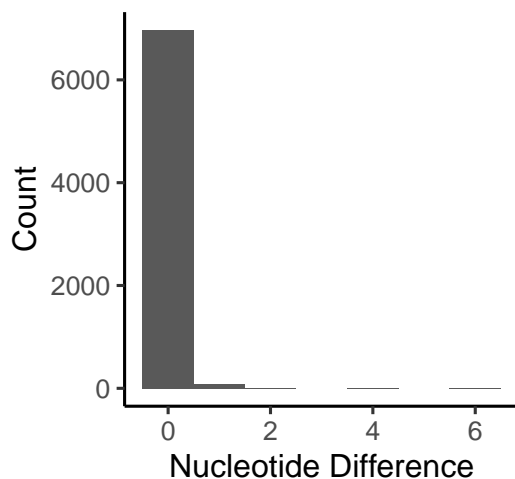
TRBV25-1*ap01

3380 sequences assigned
3343 (98.9%) exact matches, in which:
3261 unique CDR3
13 unique J



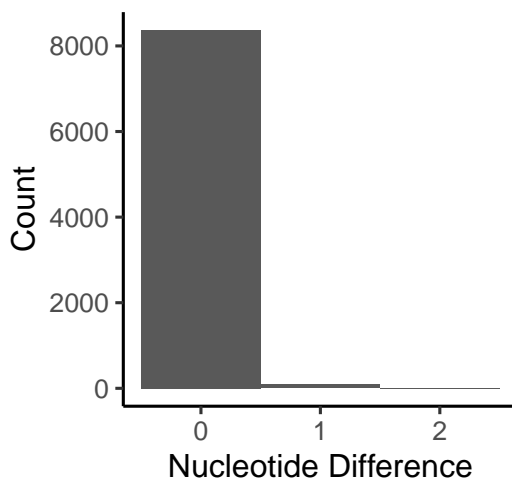
TRBV24-1*ap01

7072 sequences assigned
6969 (98.5%) exact matches, in which:
6824 unique CDR3
13 unique J



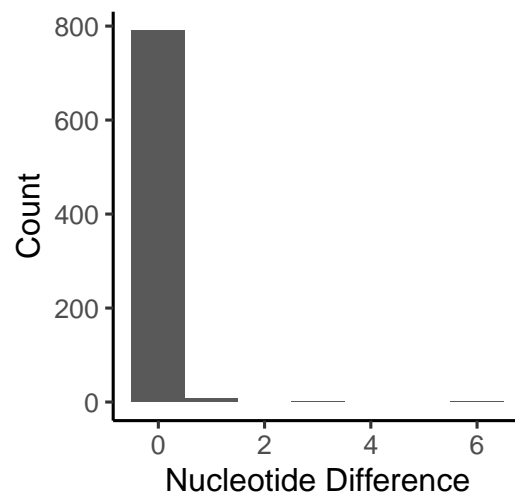
TRBV4-3*ap01

8468 sequences assigned
8371 (98.9%) exact matches, in which:
8173 unique CDR3
13 unique J



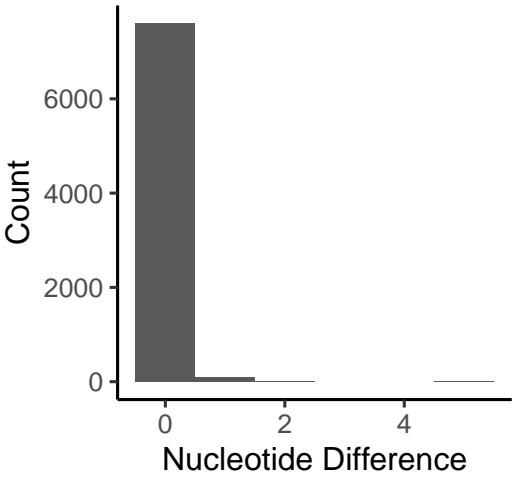
TRBV5-3*ap01

802 sequences assigned
791 (98.6%) exact matches, in which:
784 unique CDR3
13 unique J



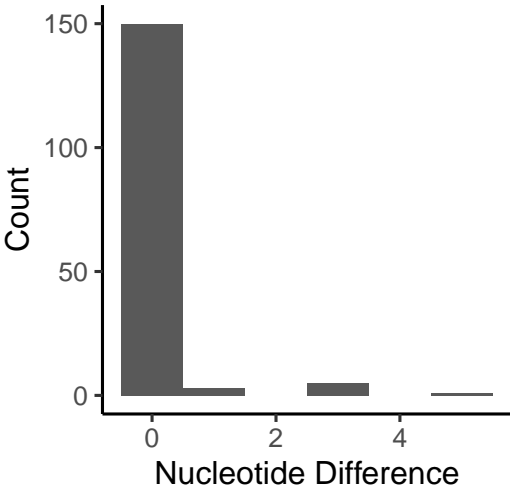
TRBV5-4*ap01

7700 sequences assigned
7600 (98.7%) exact matches, in which:
7435 unique CDR3
14 unique J



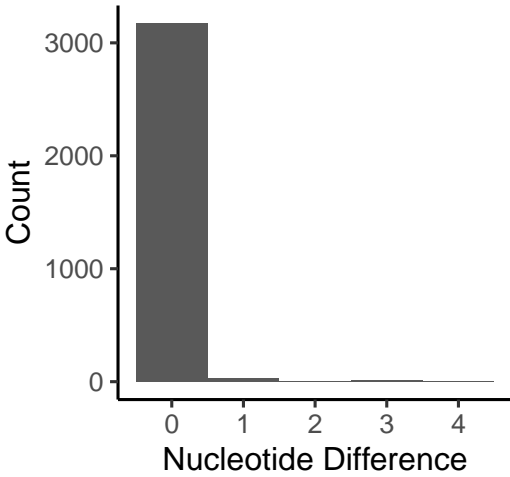
TRBV5-7*ap01

159 sequences assigned
150 (94.3%) exact matches, in which:
145 unique CDR3
13 unique J



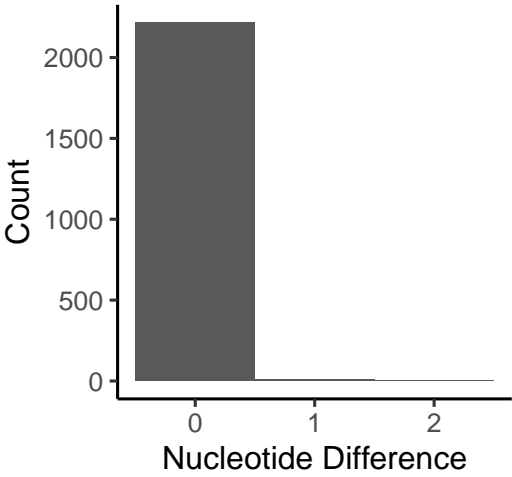
TRBV6-4*ap01

3219 sequences assigned
3172 (98.5%) exact matches, in which:
3120 unique CDR3
13 unique J



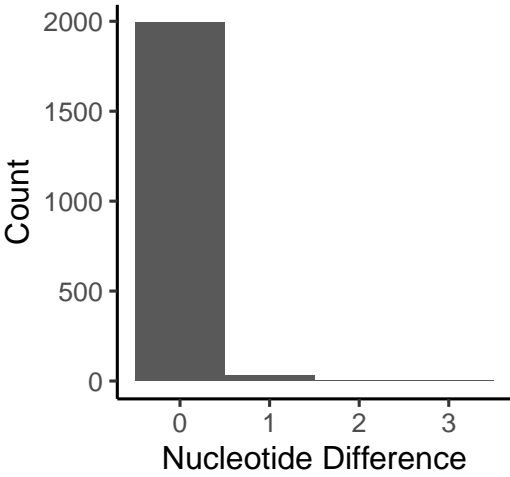
TRBV5-5*ap01

2228 sequences assigned
2215 (99.4%) exact matches, in which:
2204 unique CDR3
13 unique J



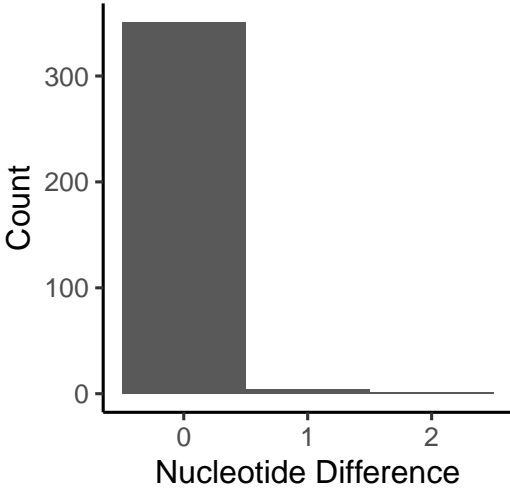
TRBV5-8*ap01

2028 sequences assigned
1992 (98.2%) exact matches, in which:
1965 unique CDR3
13 unique J



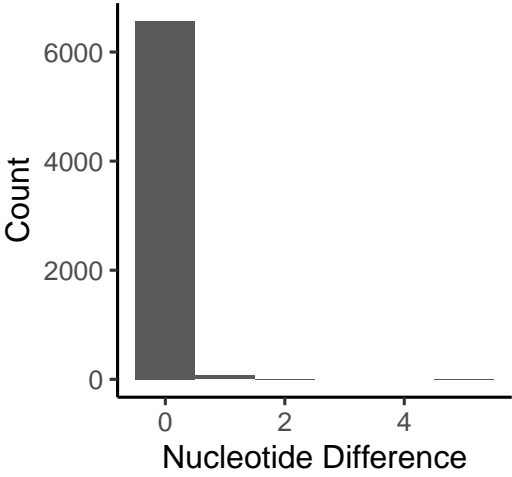
TRBV6-7*ap01

356 sequences assigned
351 (98.6%) exact matches, in which:
344 unique CDR3
13 unique J



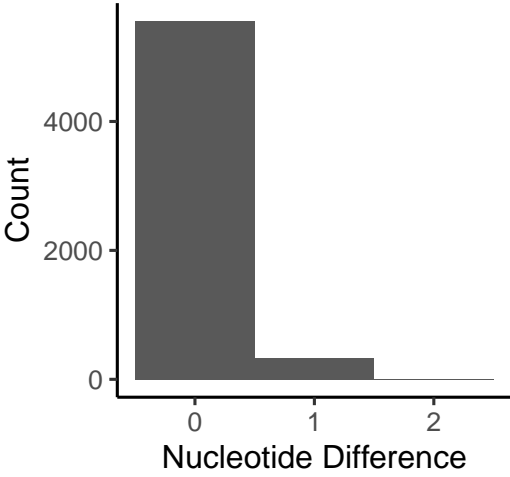
TRBV5-6*ap01

6638 sequences assigned
6568 (98.9%) exact matches, in which:
6375 unique CDR3
13 unique J



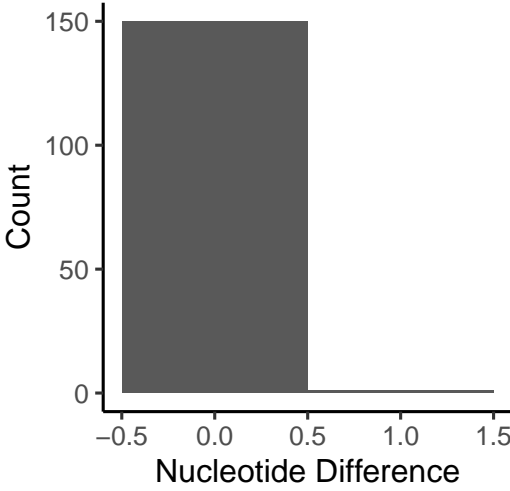
TRBV6-1*ap01

5891 sequences assigned
5558 (94.3%) exact matches, in which:
5411 unique CDR3
13 unique J



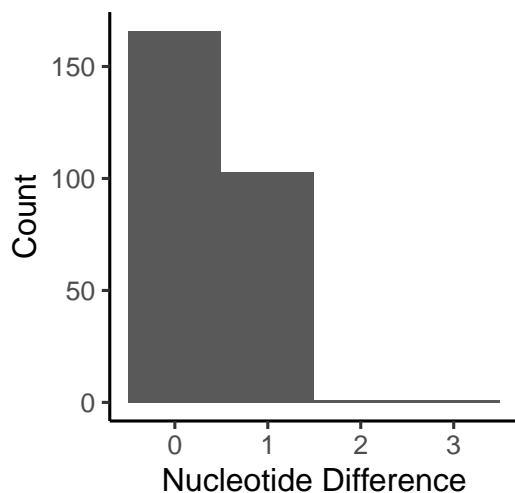
TRBV6-8*ap01

151 sequences assigned
150 (99.3%) exact matches, in which:
147 unique CDR3
13 unique J



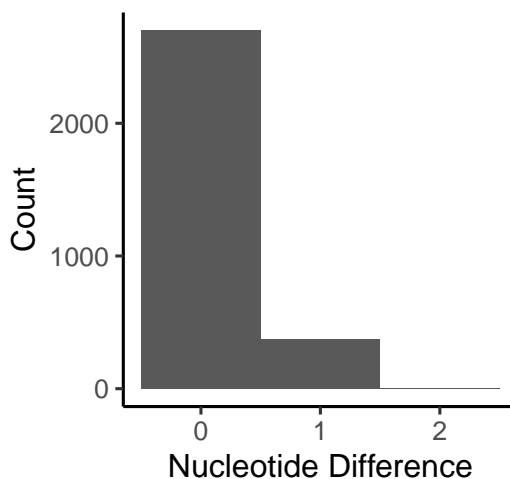
TRBV6-9*ap01

271 sequences assigned
166 (61.3%) exact matches, in which:
163 unique CDR3
13 unique J



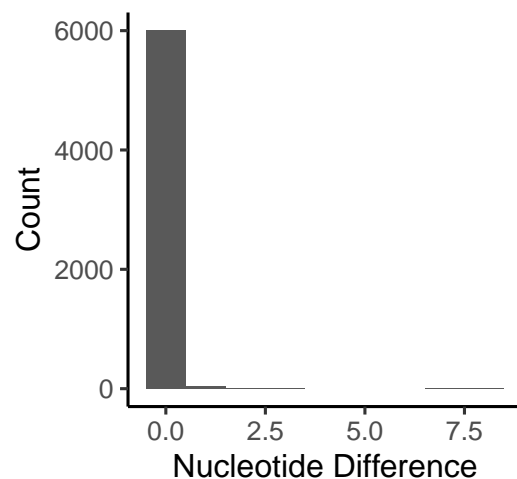
TRBV6-56*ap02

3076 sequences assigned
2700 (87.8%) exact matches, in which:
2632 unique CDR3
13 unique J



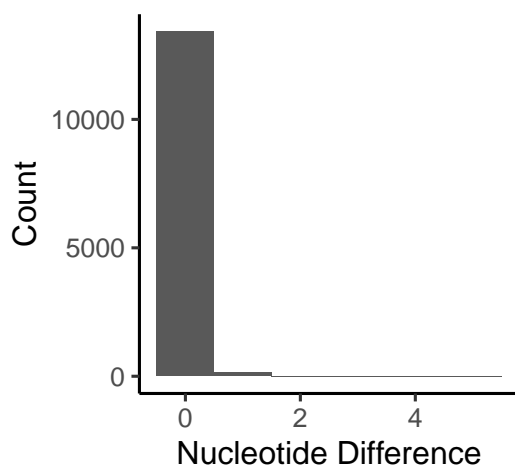
TRBV7-3*ap01

6051 sequences assigned
6004 (99.2%) exact matches, in which:
5925 unique CDR3
13 unique J



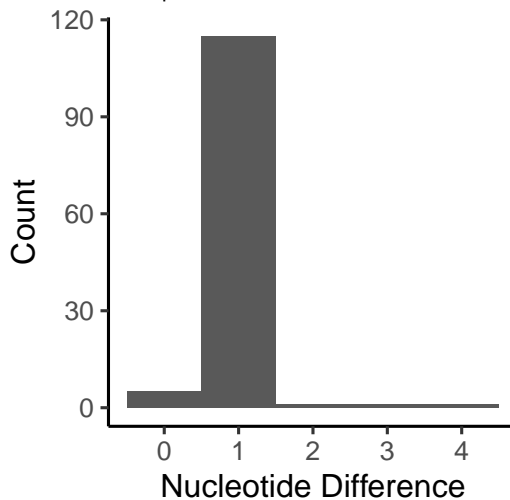
TRBV6-23*ap01

13593 sequences assigned
13423 (98.7%) exact matches, in which:
13068 unique CDR3
13 unique J



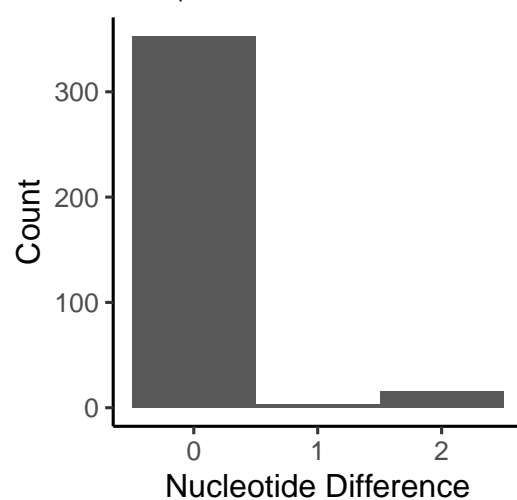
TRBV7-1*ap01_T296C

123 sequences assigned
5 (4.1%) exact matches, in which:
5 unique CDR3
3 unique J



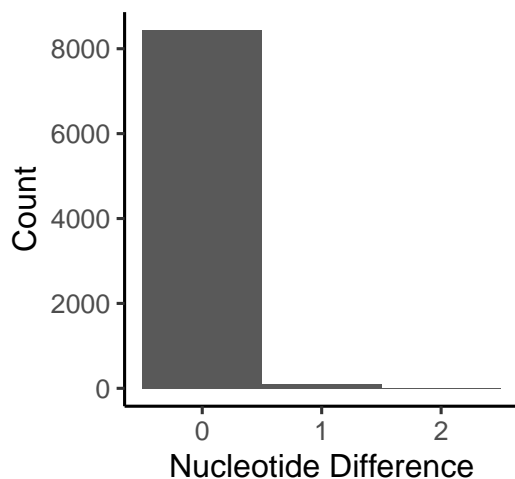
TRBV7-4*ap01

372 sequences assigned
353 (94.9%) exact matches, in which:
342 unique CDR3
13 unique J



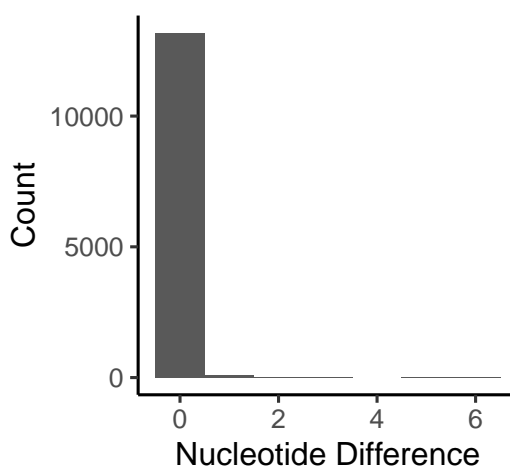
TRBV6-56*ap01

8551 sequences assigned
8440 (98.7%) exact matches, in which:
8246 unique CDR3
13 unique J



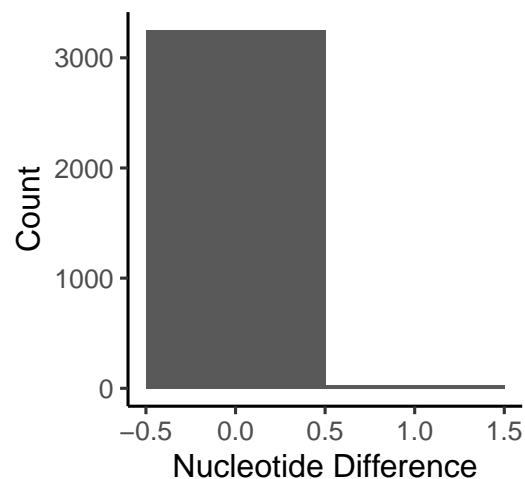
TRBV7-2*ap01

13279 sequences assigned
13185 (99.3%) exact matches, in which:
13009 unique CDR3
13 unique J



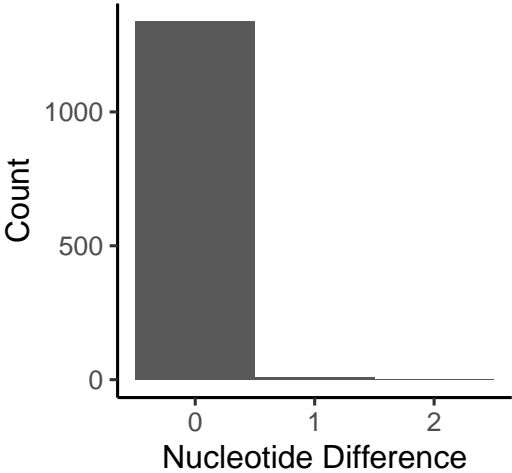
TRBV7-6*ap01

3281 sequences assigned
3252 (99.1%) exact matches, in which:
3176 unique CDR3
13 unique J



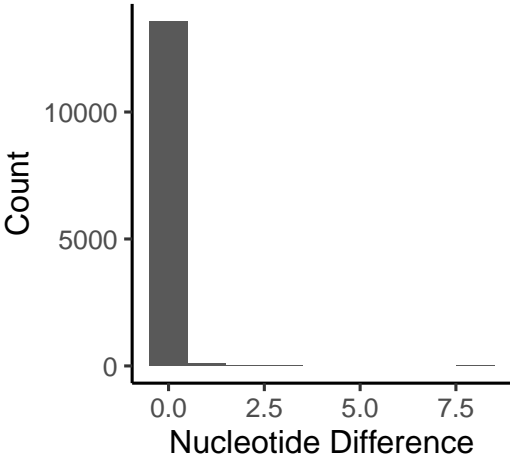
TRBV7-7*ap01_C315T

1351 sequences assigned
1338 (99%) exact matches, in which:
1301 unique CDR3
13 unique J



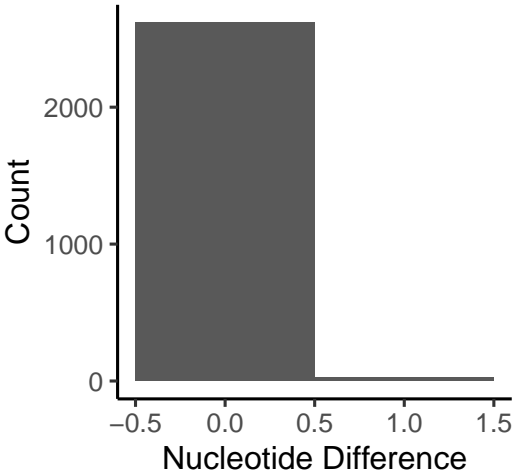
TRBV7-9*ap01

13690 sequences assigned
13578 (99.2%) exact matches, in which:
13326 unique CDR3
13 unique J



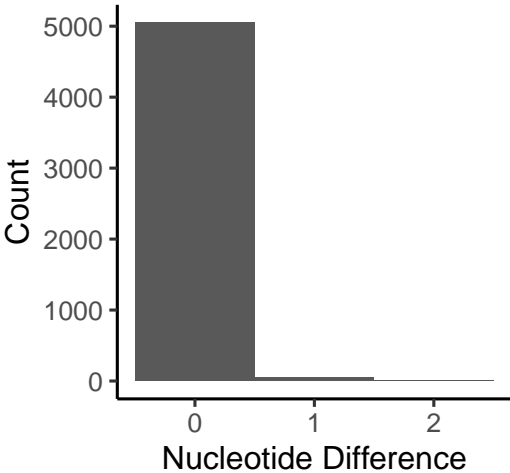
TRBV7-8*ap01

2641 sequences assigned
2617 (99.1%) exact matches, in which:
2572 unique CDR3
13 unique J



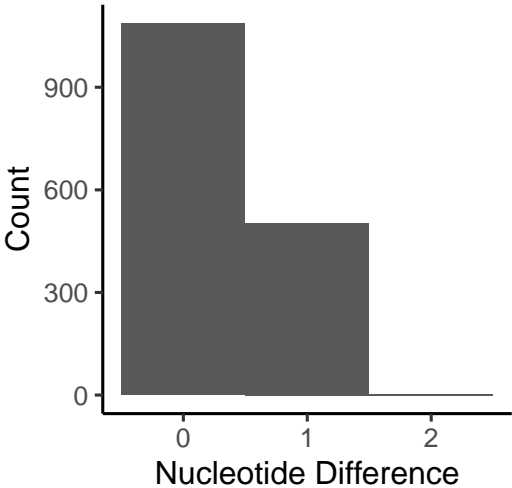
TRBV29-1*ap01

5097 sequences assigned
5049 (99.1%) exact matches, in which:
4897 unique CDR3
13 unique J



TRBV7-8*ap03

1593 sequences assigned
1087 (68.2%) exact matches, in which:
1060 unique CDR3
13 unique J



TRBV29-1*ap02

1090 sequences assigned
1069 (98.1%) exact matches, in which:
1040 unique CDR3
13 unique J

