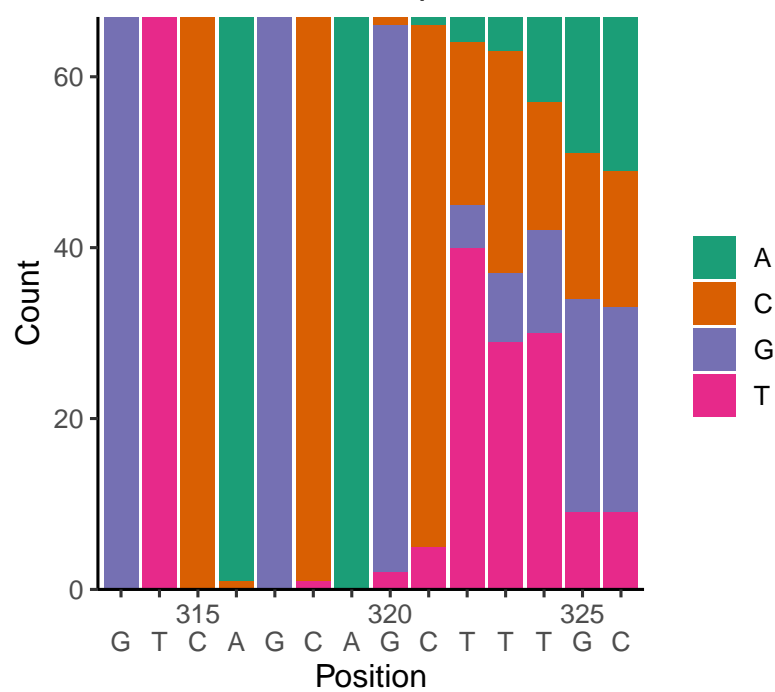
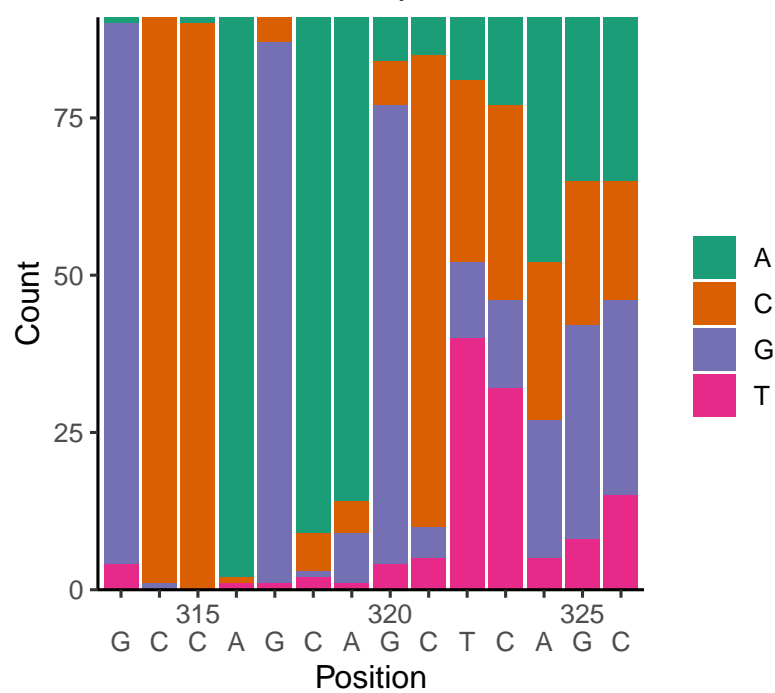


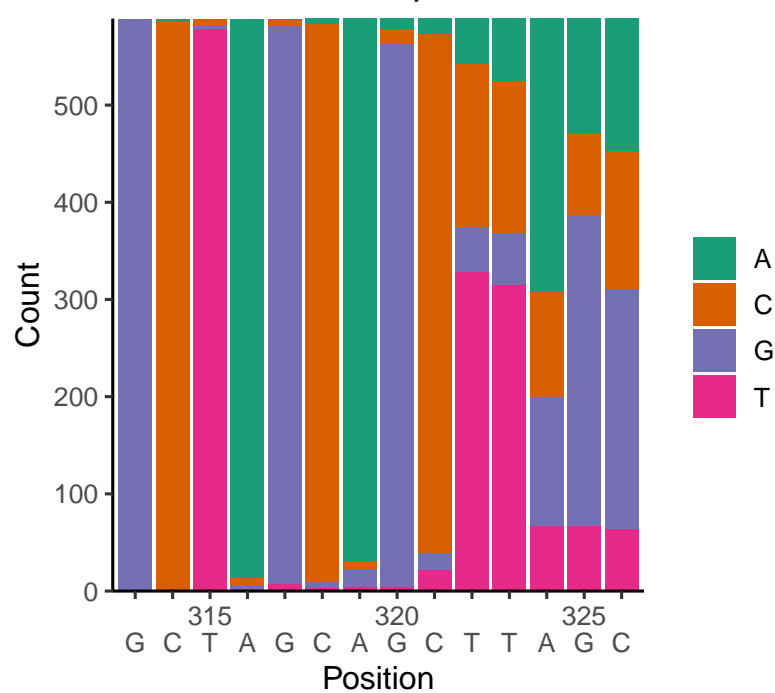
Gene TRBV12-1*ap01_C314T



Gene TRBV7-1*ap01_G291C_T296C



Gene TRBV7-7*ap01_C315T



Gene TRBV12-1*ap01_C314T



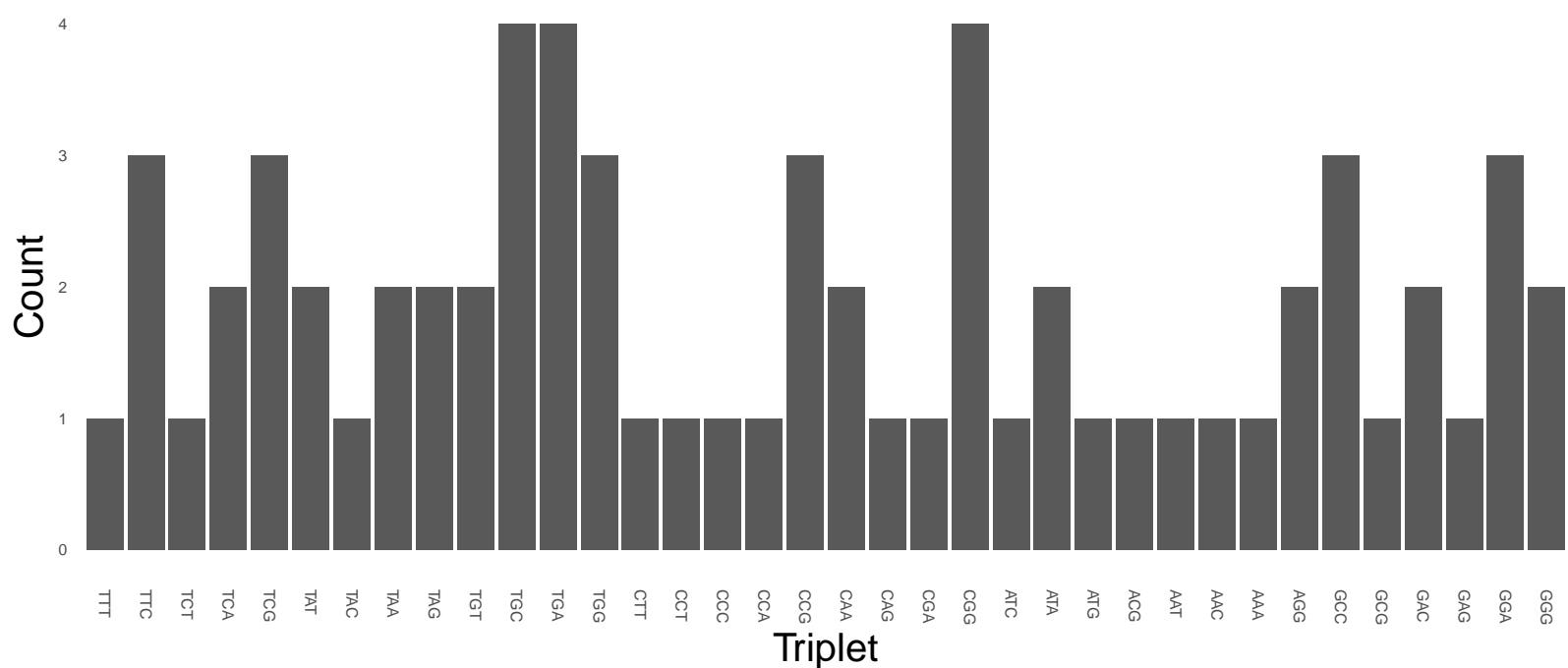
Gene TRBV7-1*ap01_G291C_T296C



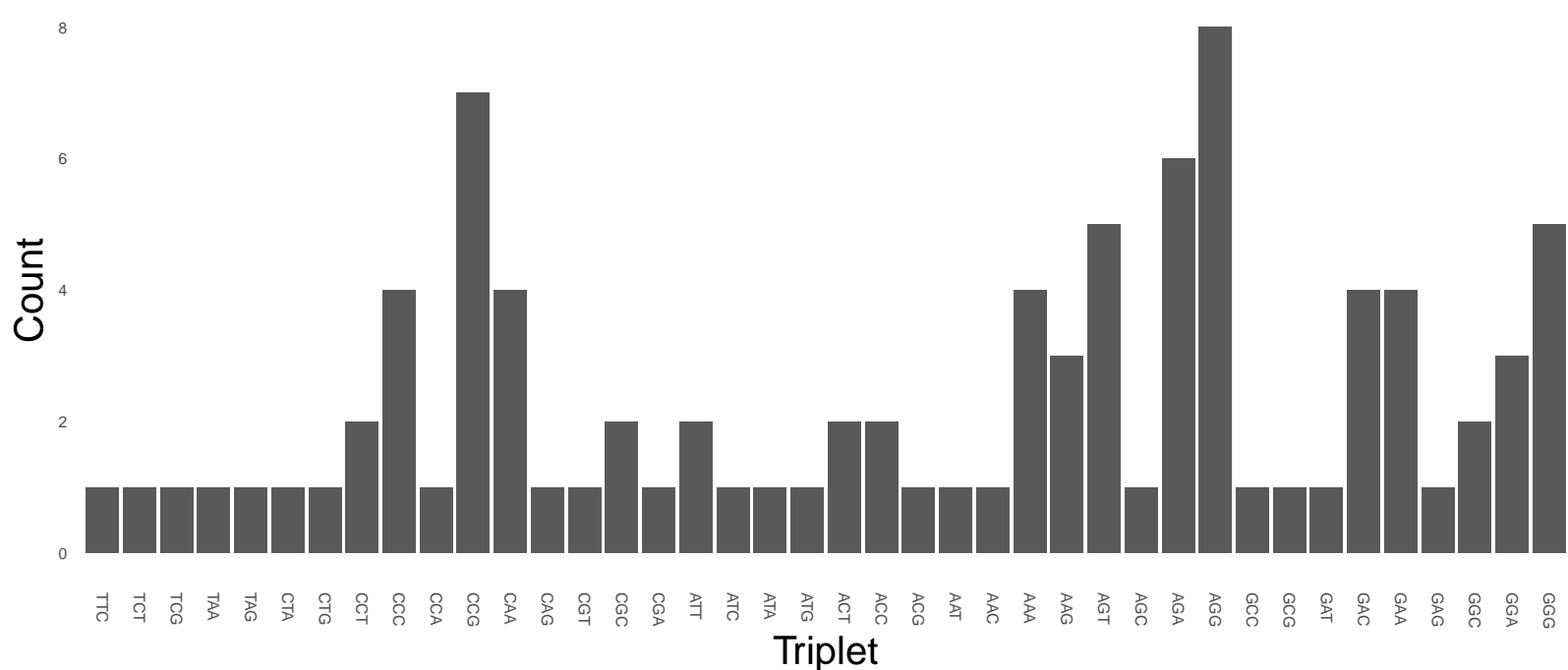
Gene TRBV7-7*ap01_C315T



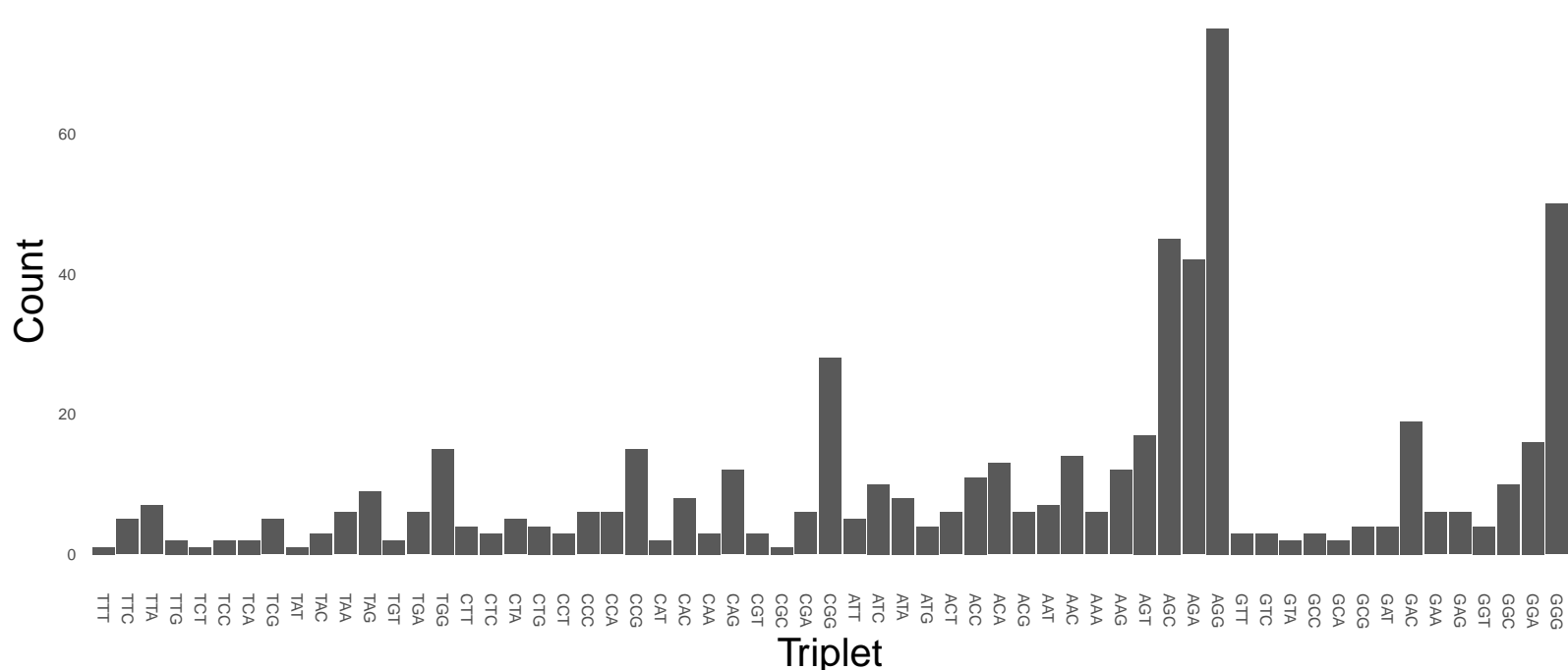
TRBV12-1*ap01_C314T- Final 3 nucleotides as a triplet



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

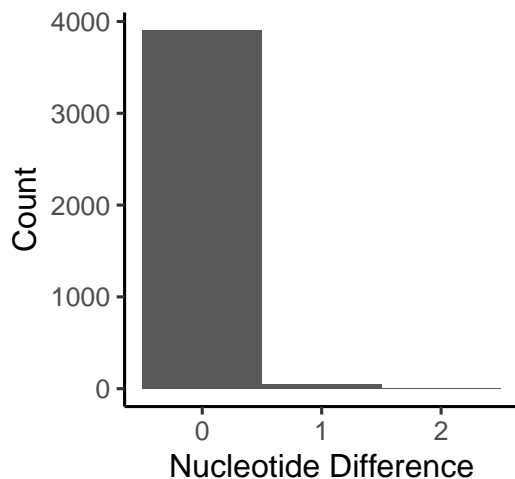


TRBV7-7*ap01_C315T- Final 3 nucleotides as a triplet



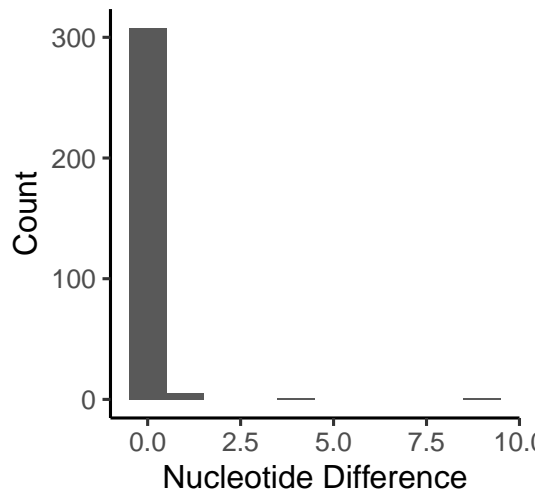
TRBV20–1*ap01

3958 sequences assigned
3903 (98.6%) exact matches, in which:
3851 unique CDR3
13 unique J



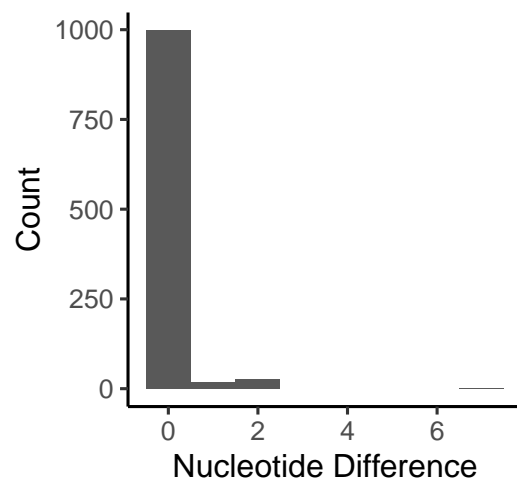
TRBV10–2*ap01

315 sequences assigned
308 (97.8%) exact matches, in which:
302 unique CDR3
13 unique J



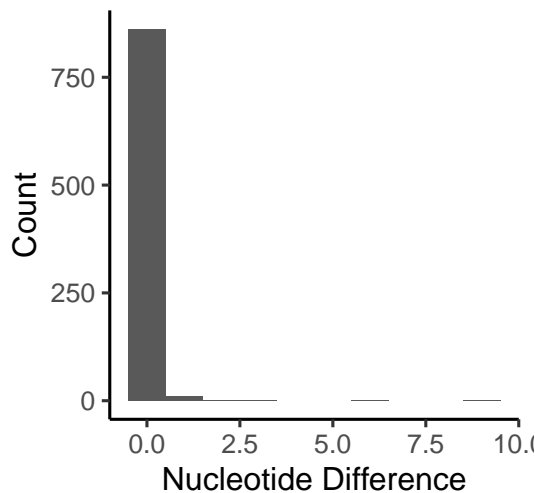
TRBV13*ap01

1045 sequences assigned
998 (95.5%) exact matches, in which:
970 unique CDR3
13 unique J



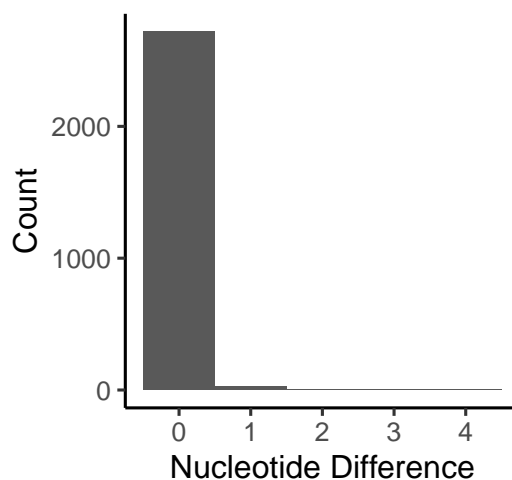
TRBV10–1*ap01

877 sequences assigned
862 (98.3%) exact matches, in which:
836 unique CDR3
13 unique J



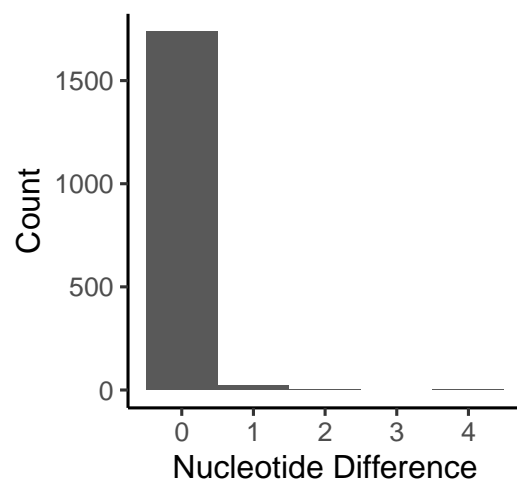
TRBV10–3*ap01

2750 sequences assigned
2718 (98.8%) exact matches, in which:
2667 unique CDR3
13 unique J



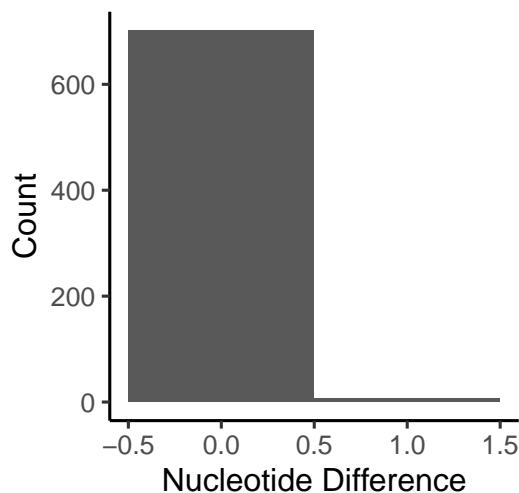
TRBV14*ap01

1761 sequences assigned
1737 (98.6%) exact matches, in which:
1706 unique CDR3
13 unique J



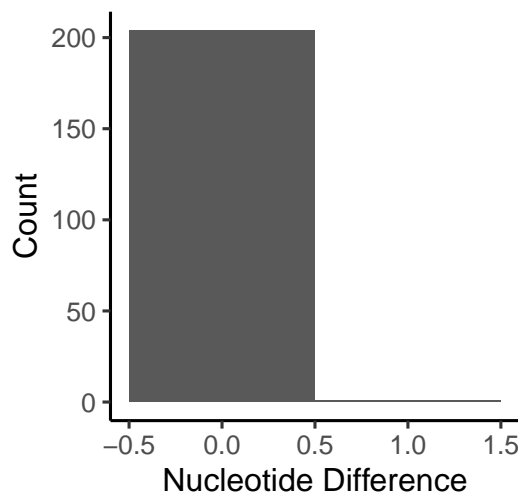
TRBV20–1*ap02

708 sequences assigned
702 (99.2%) exact matches, in which:
691 unique CDR3
13 unique J



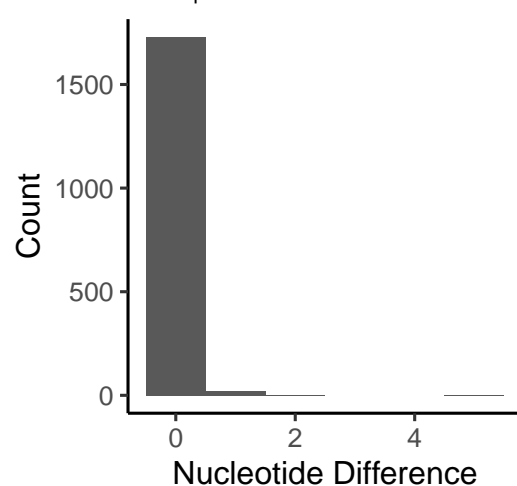
TRBV1*ap01

205 sequences assigned
204 (99.5%) exact matches, in which:
202 unique CDR3
13 unique J



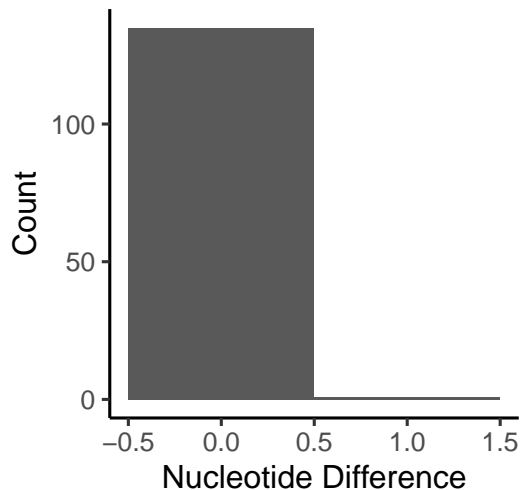
TRBV15*ap02

1753 sequences assigned
1729 (98.6%) exact matches, in which:
1691 unique CDR3
13 unique J



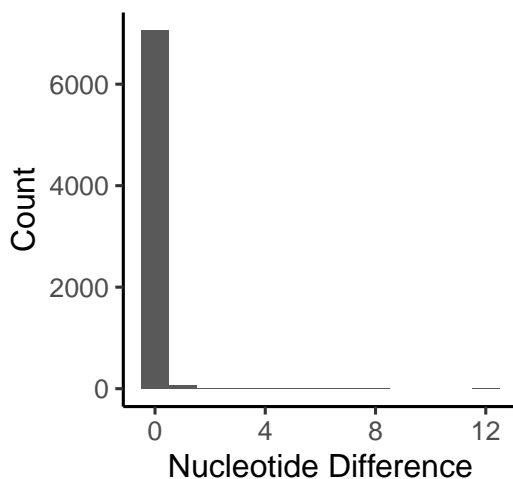
TRBV16*ap01

136 sequences assigned
135 (99.3%) exact matches, in which:
135 unique CDR3
12 unique J



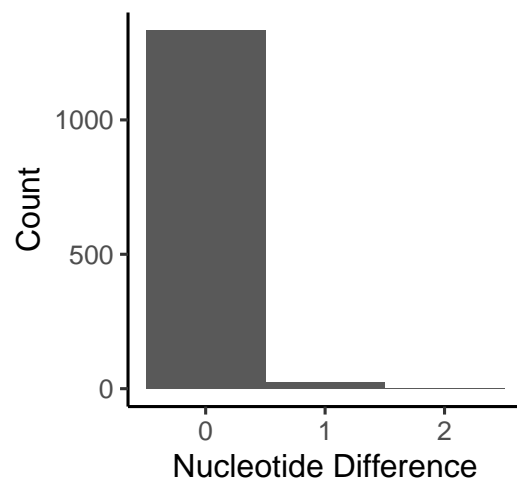
TRBV19*ap01

7139 sequences assigned
7059 (98.9%) exact matches, in which:
6974 unique CDR3
13 unique J



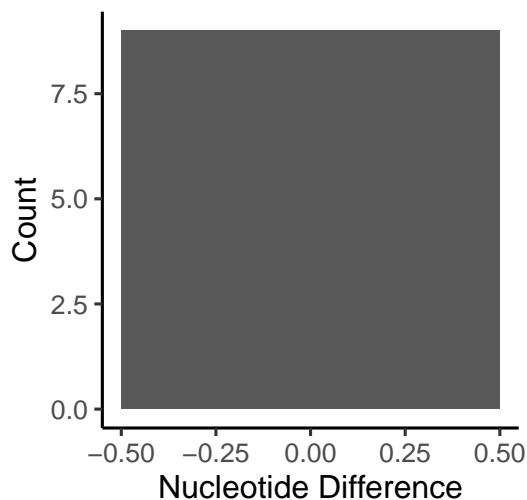
TRBV28*ap01

1357 sequences assigned
1333 (98.2%) exact matches, in which:
1302 unique CDR3
13 unique J



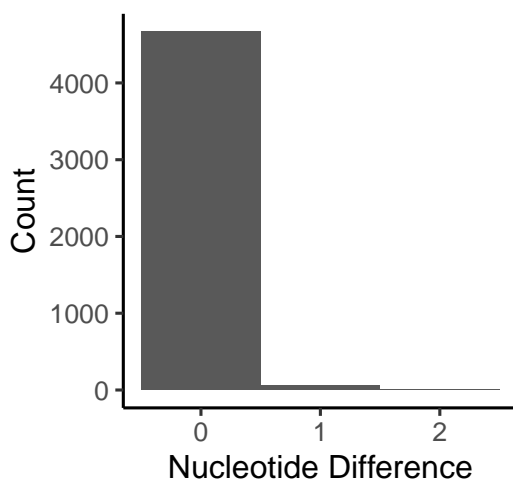
TRBV17*ap01

9 sequences assigned
9 (100%) exact matches, in which:
9 unique CDR3
5 unique J



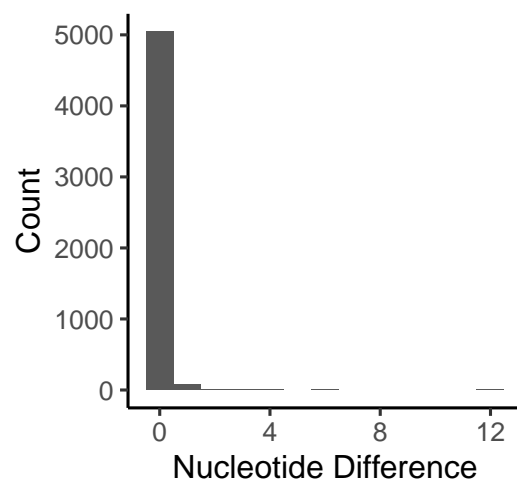
TRBV2*ap01

4725 sequences assigned
4667 (98.8%) exact matches, in which:
4590 unique CDR3
13 unique J



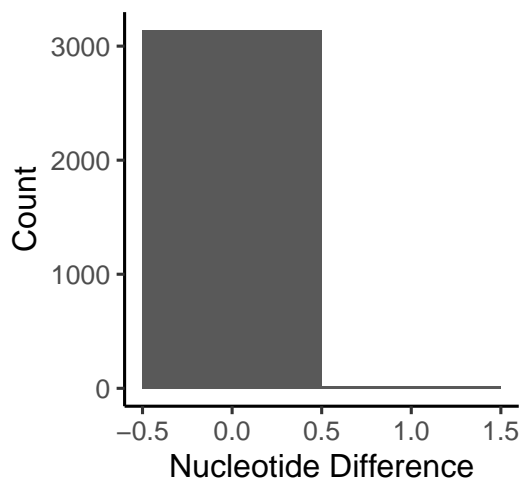
TRBV30*ap01

5136 sequences assigned
5044 (98.2%) exact matches, in which:
4981 unique CDR3
13 unique J



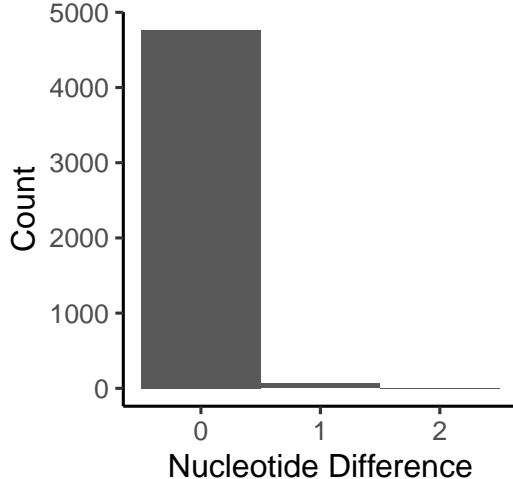
TRBV18*ap01

3160 sequences assigned
3141 (99.4%) exact matches, in which:
3091 unique CDR3
13 unique J



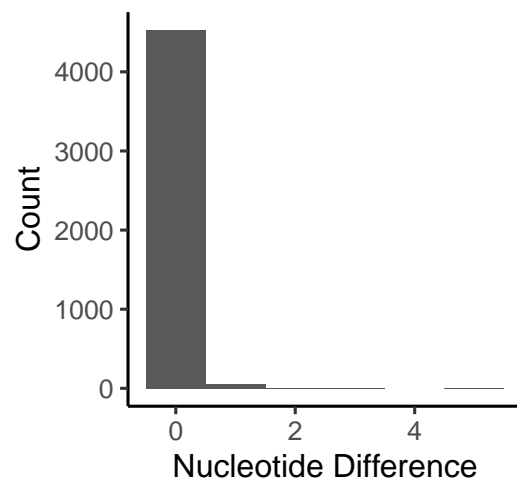
TRBV27*ap01

4833 sequences assigned
4764 (98.6%) exact matches, in which:
4639 unique CDR3
13 unique J



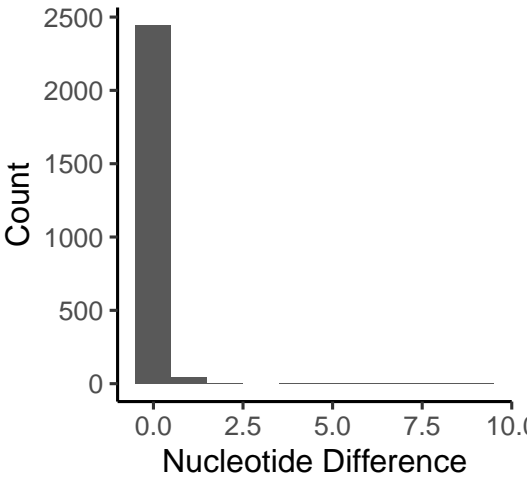
TRBV9*ap01

4586 sequences assigned
4528 (98.7%) exact matches, in which:
4440 unique CDR3
13 unique J



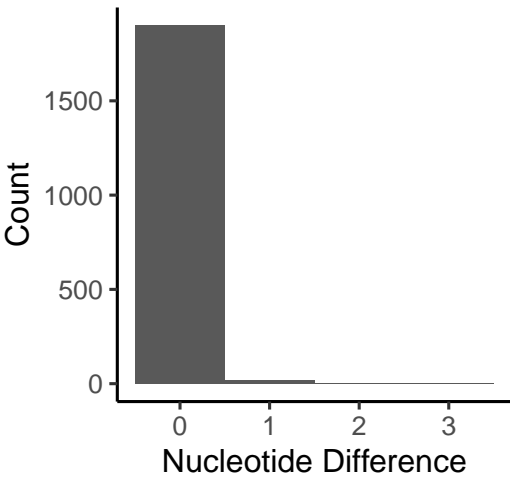
TRBV21-1*ap01

2502 sequences assigned
2443 (97.6%) exact matches, in which:
2397 unique CDR3
13 unique J



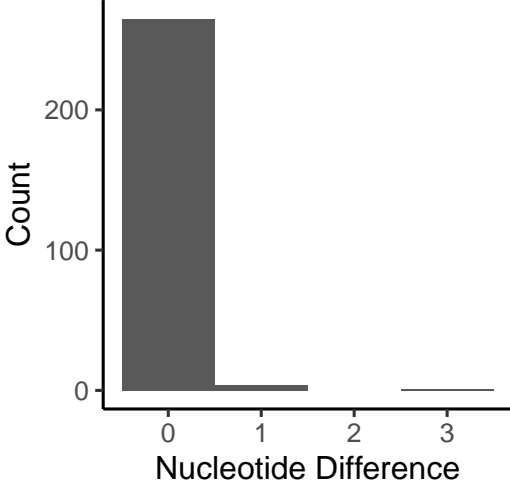
TRBV11-3*ap01

1924 sequences assigned
1900 (98.8%) exact matches, in which:
1859 unique CDR3
13 unique J



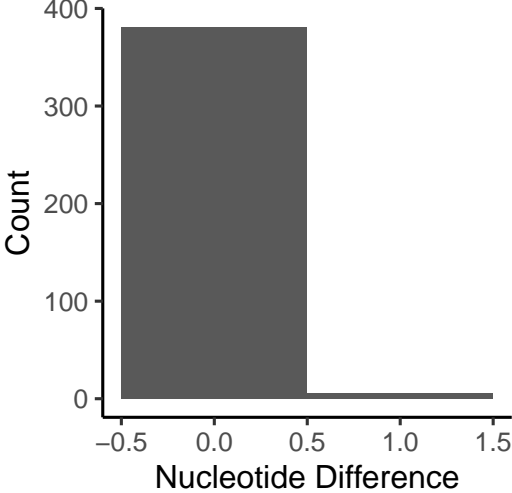
TRBV12-2*ap01

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



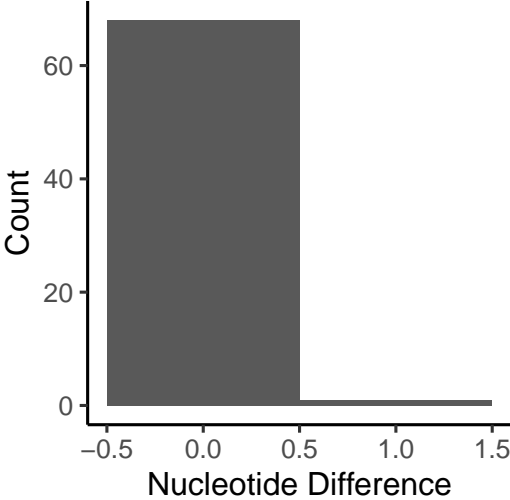
TRBV11-1*ap01

387 sequences assigned
381 (98.4%) exact matches, in which:
373 unique CDR3
13 unique J



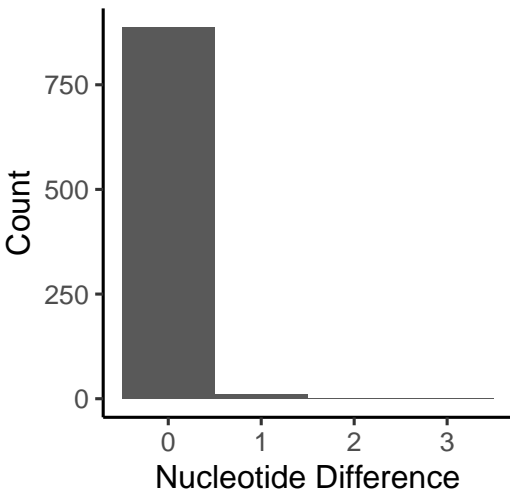
TRBV12-1*ap01

69 sequences assigned
68 (98.6%) exact matches, in which:
68 unique CDR3
12 unique J



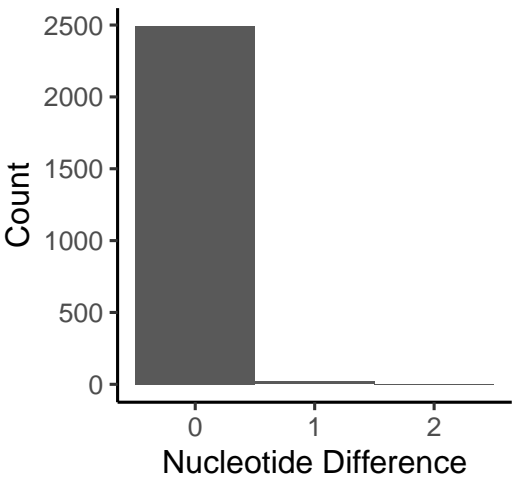
TRBV12-5*ap01

901 sequences assigned
888 (98.6%) exact matches, in which:
870 unique CDR3
13 unique J



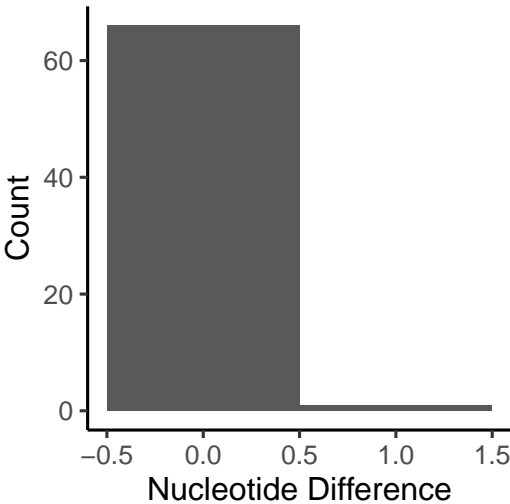
TRBV11-2*ap01

2514 sequences assigned
2493 (99.2%) exact matches, in which:
2442 unique CDR3
13 unique J



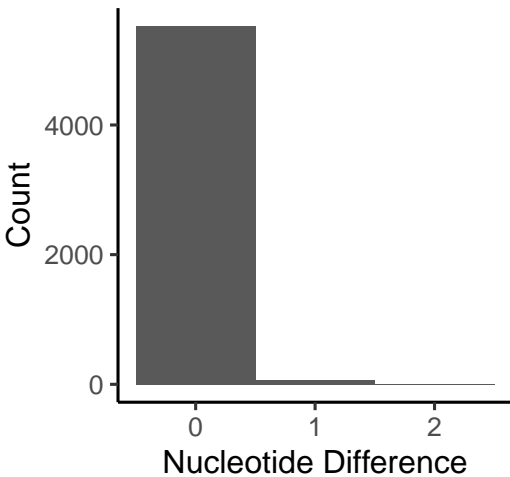
TRBV12-1*ap01_C314T

67 sequences assigned
66 (98.5%) exact matches, in which:
65 unique CDR3
11 unique J



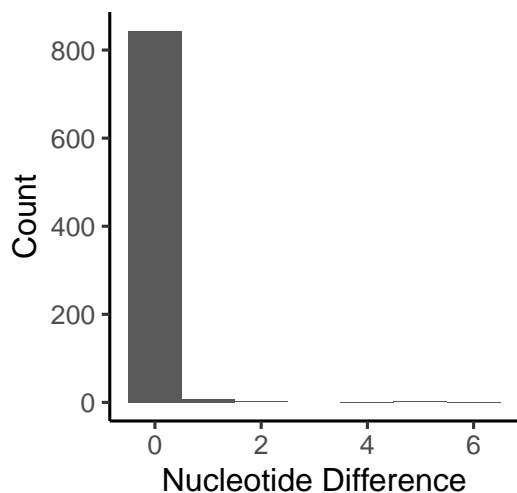
TRBV12-34*ap01

5606 sequences assigned
5526 (98.6%) exact matches, in which:
5416 unique CDR3
13 unique J



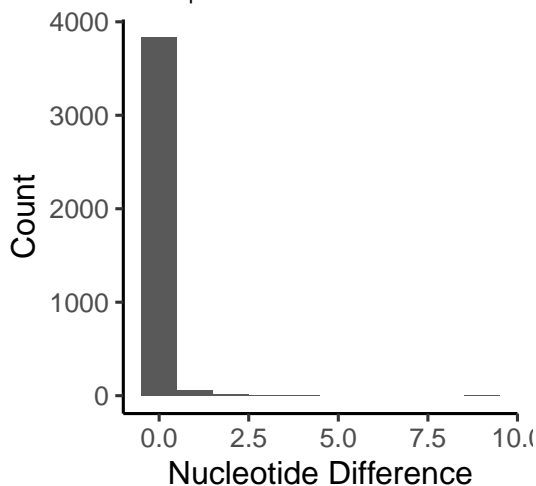
TRBV23-1*ap01

857 sequences assigned
844 (98.5%) exact matches, in which:
834 unique CDR3
13 unique J



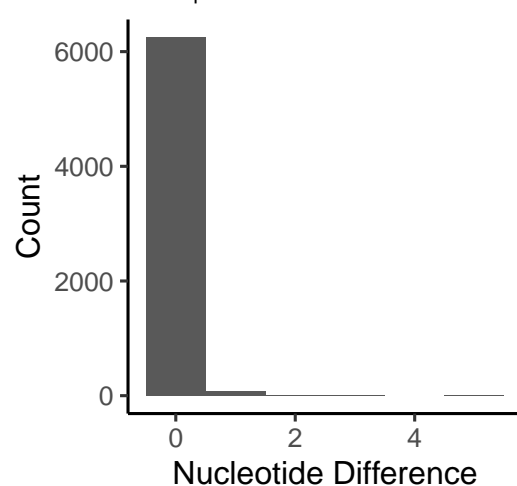
TRBV24-1*ap01

3902 sequences assigned
3833 (98.2%) exact matches, in which:
3778 unique CDR3
13 unique J



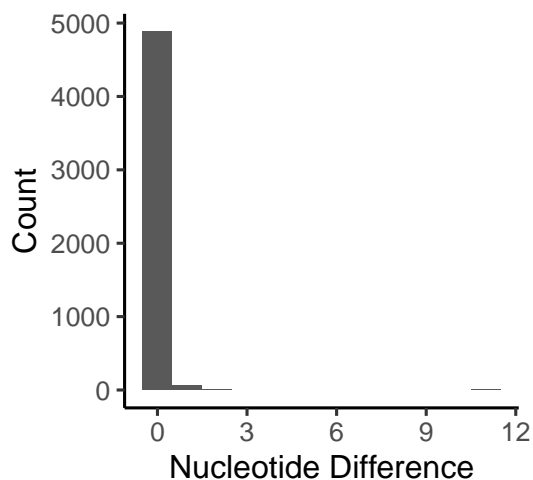
TRBV5-1*ap01

6351 sequences assigned
6248 (98.4%) exact matches, in which:
6044 unique CDR3
13 unique J



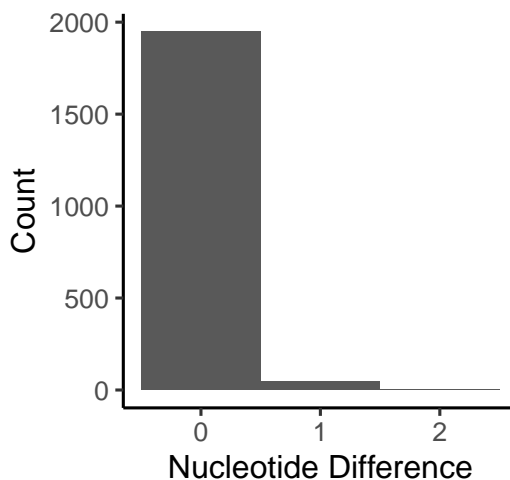
TRBV3-12*ap01

4950 sequences assigned
4882 (98.6%) exact matches, in which:
4785 unique CDR3
13 unique J



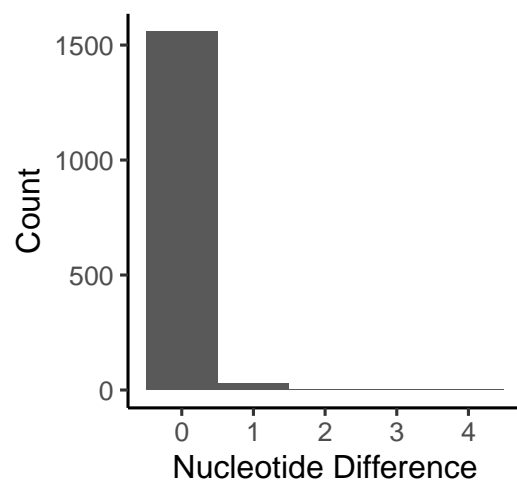
TRBV4-2*ap01

1997 sequences assigned
1948 (97.5%) exact matches, in which:
1912 unique CDR3
13 unique J



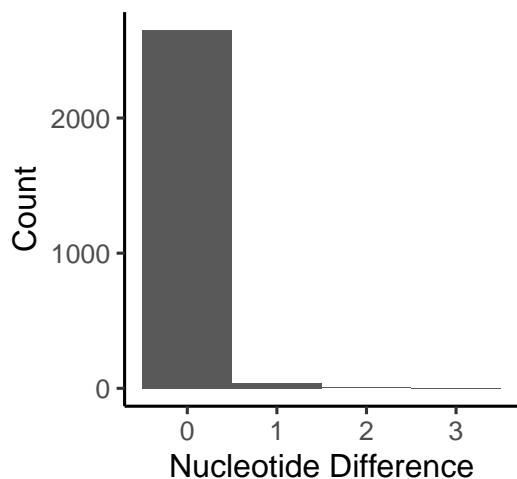
TRBV25-1*ap01

1593 sequences assigned
1558 (97.8%) exact matches, in which:
1524 unique CDR3
13 unique J



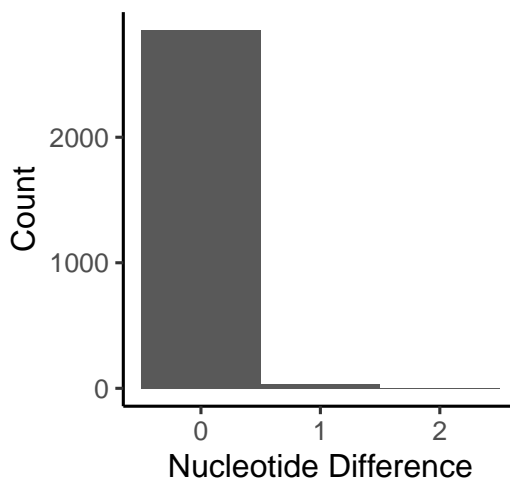
TRBV4-1*ap01

2695 sequences assigned
2651 (98.4%) exact matches, in which:
2594 unique CDR3
13 unique J



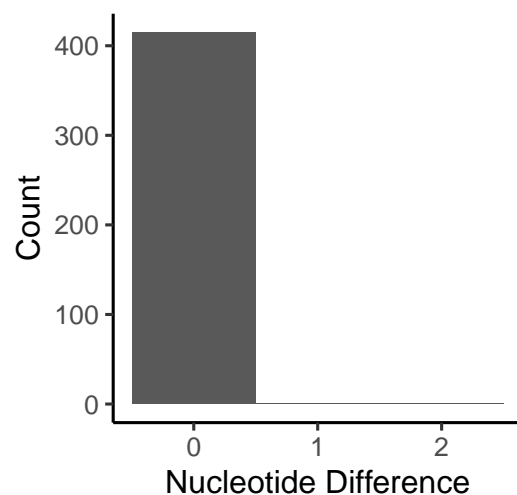
TRBV4-3*ap01

2894 sequences assigned
2854 (98.6%) exact matches, in which:
2792 unique CDR3
13 unique J



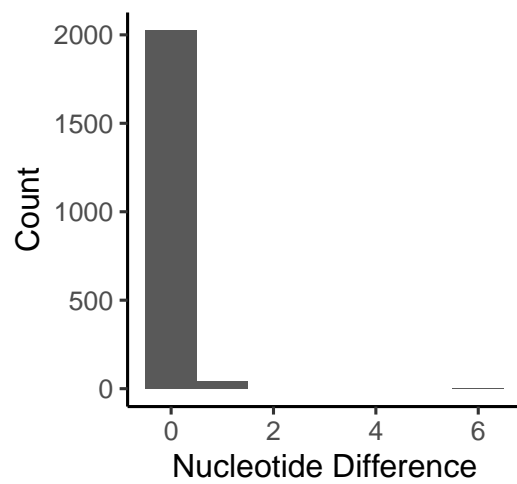
TRBV5-3*ap01

417 sequences assigned
415 (99.5%) exact matches, in which:
405 unique CDR3
13 unique J



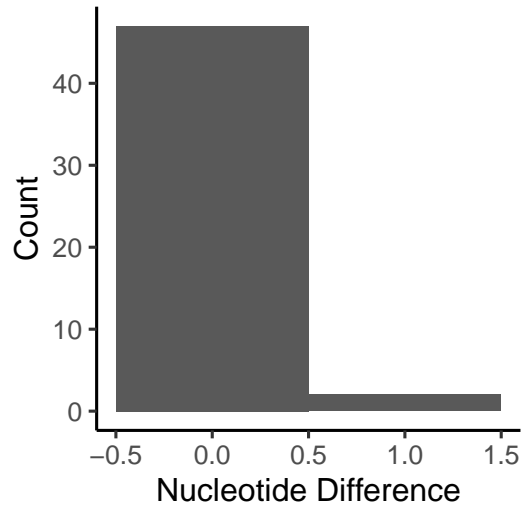
TRBV5-4*ap01

2069 sequences assigned
2025 (97.9%) exact matches, in which:
1980 unique CDR3
13 unique J



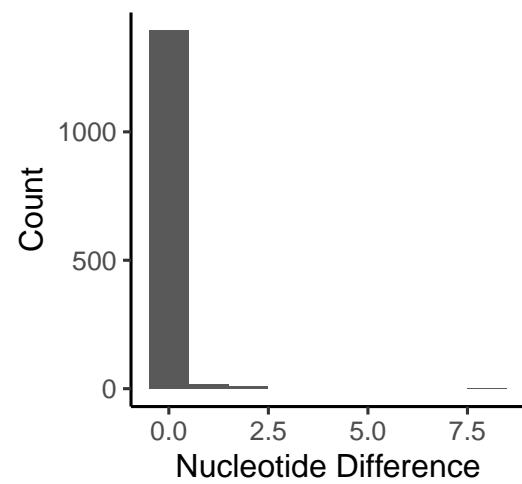
TRBV5-7*ap01

49 sequences assigned
47 (95.9%) exact matches, in which:
47 unique CDR3
12 unique J



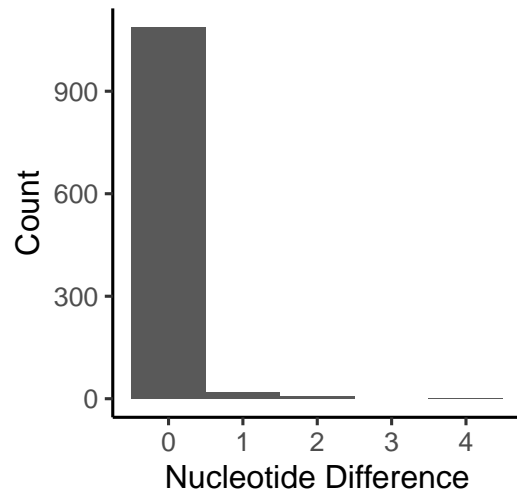
TRBV6-4*ap01

1422 sequences assigned
1395 (98.1%) exact matches, in which:
1369 unique CDR3
14 unique J



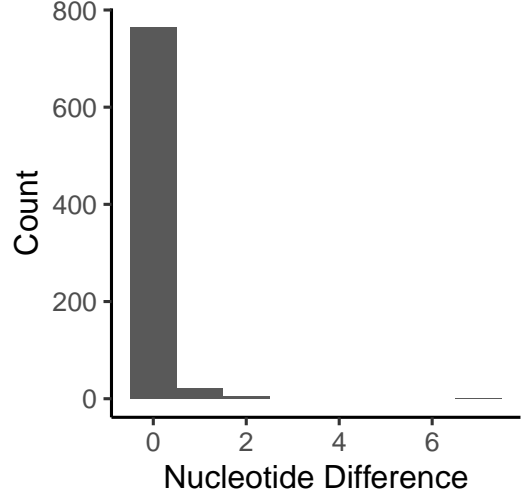
TRBV5-5*ap01

1115 sequences assigned
1088 (97.6%) exact matches, in which:
1071 unique CDR3
13 unique J



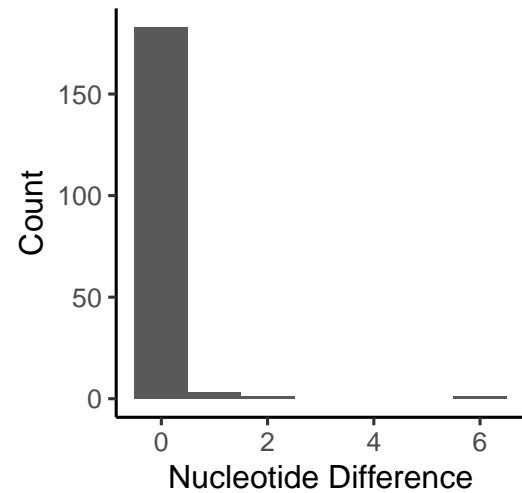
TRBV5-8*ap01

792 sequences assigned
765 (96.6%) exact matches, in which:
749 unique CDR3
13 unique J



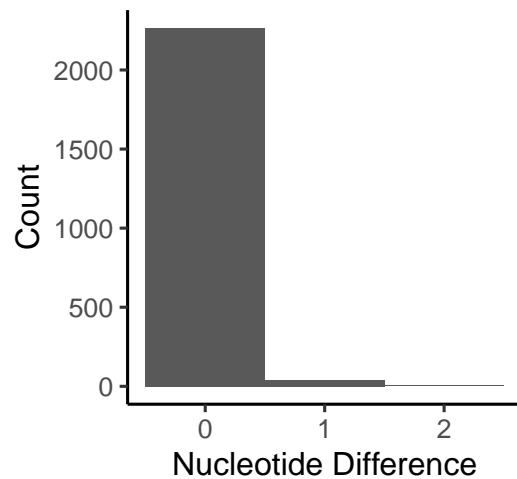
TRBV6-7*ap01

188 sequences assigned
183 (97.3%) exact matches, in which:
177 unique CDR3
13 unique J



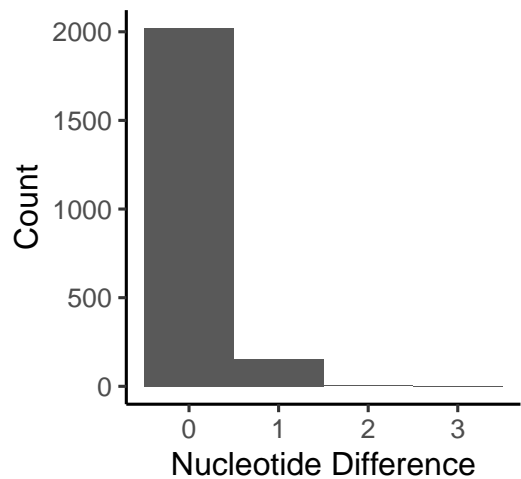
TRBV5-6*ap01

2308 sequences assigned
2265 (98.1%) exact matches, in which:
2213 unique CDR3
13 unique J



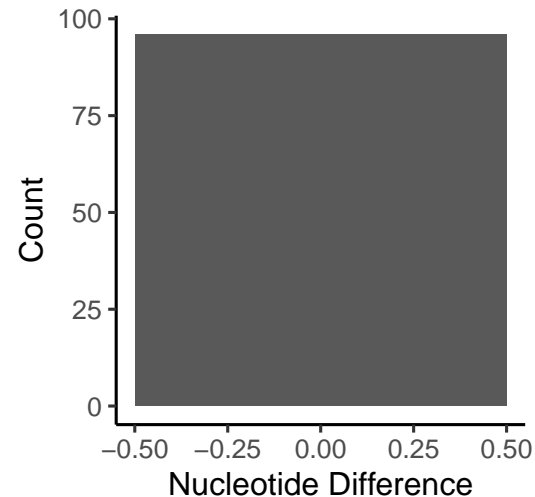
TRBV6-1*ap01

2181 sequences assigned
2021 (92.7%) exact matches, in which:
1960 unique CDR3
13 unique J



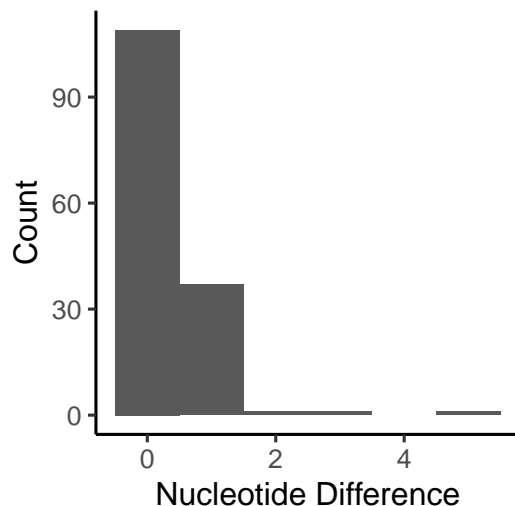
TRBV6-8*ap01

96 sequences assigned
96 (100%) exact matches, in which:
95 unique CDR3
13 unique J



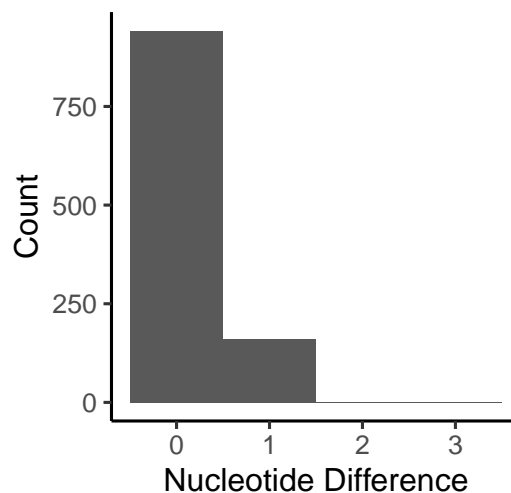
TRBV6-9*ap01

149 sequences assigned
109 (73.2%) exact matches, in which:
105 unique CDR3
13 unique J



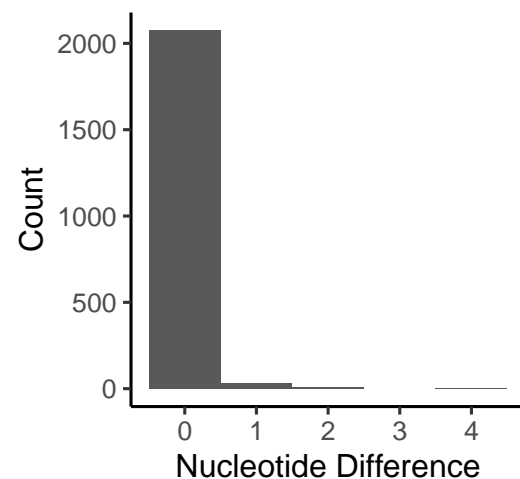
TRBV6-56*ap02

1104 sequences assigned
942 (85.3%) exact matches, in which:
926 unique CDR3
13 unique J



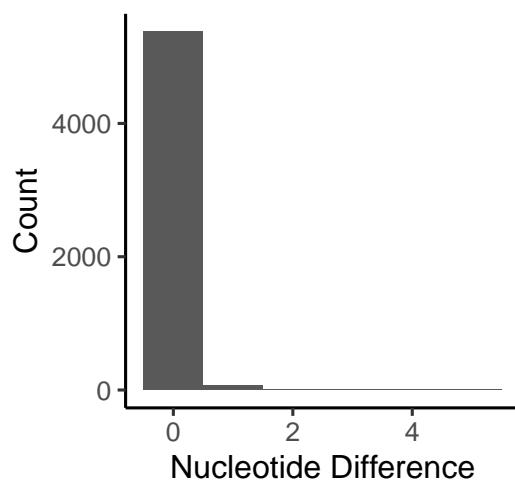
TRBV7-3*ap01

2116 sequences assigned
2075 (98.1%) exact matches, in which:
2032 unique CDR3
13 unique J



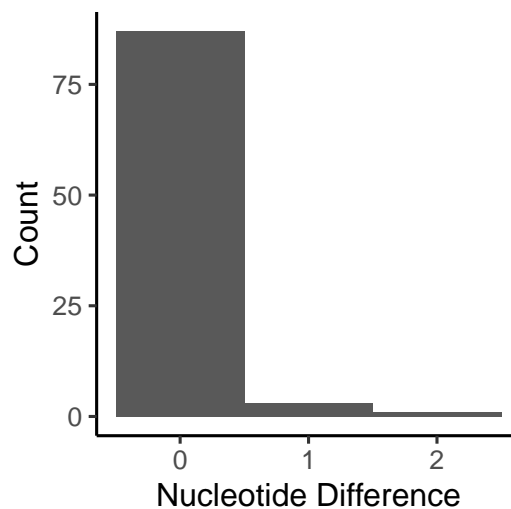
TRBV6-23*ap01

5445 sequences assigned
5376 (98.7%) exact matches, in which:
5261 unique CDR3
13 unique J



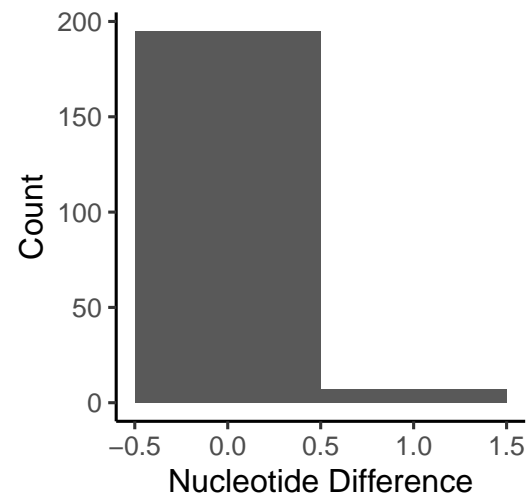
TRBV7-1*ap01_G291C_T

91 sequences assigned
87 (95.6%) exact matches, in which:
87 unique CDR3
13 unique J



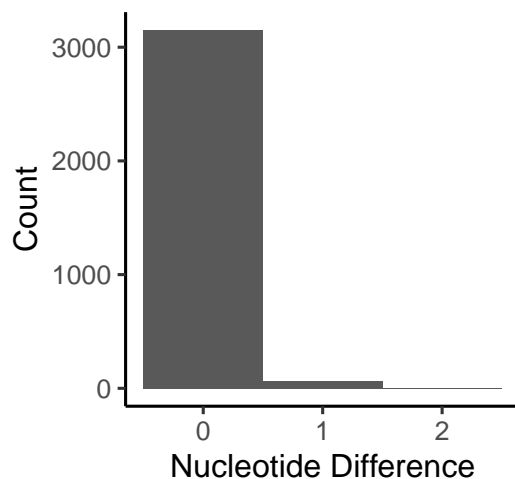
TRBV7-4*ap01

202 sequences assigned
195 (96.5%) exact matches, in which:
192 unique CDR3
13 unique J



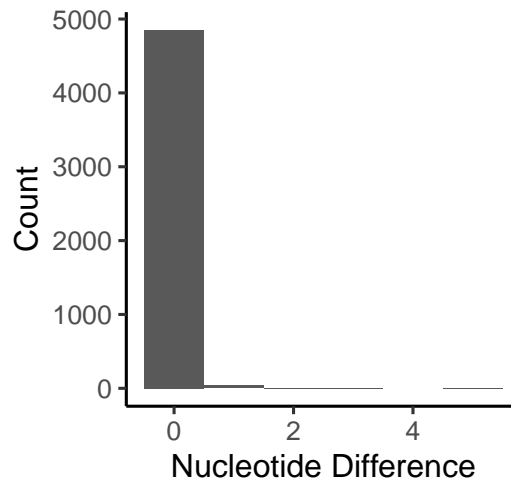
TRBV6-56*ap01

3221 sequences assigned
3151 (97.8%) exact matches, in which:
3063 unique CDR3
13 unique J



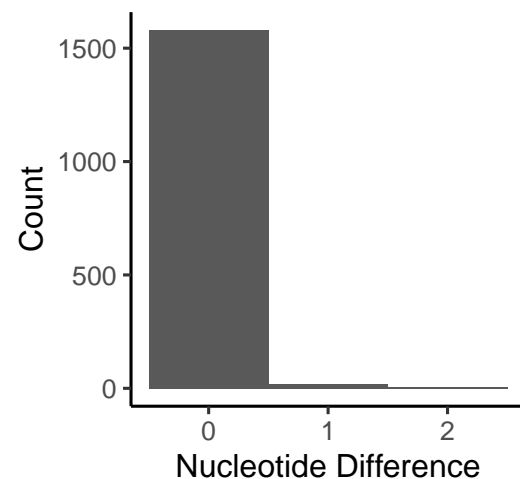
TRBV7-2*ap01

4896 sequences assigned
4851 (99.1%) exact matches, in which:
4773 unique CDR3
13 unique J



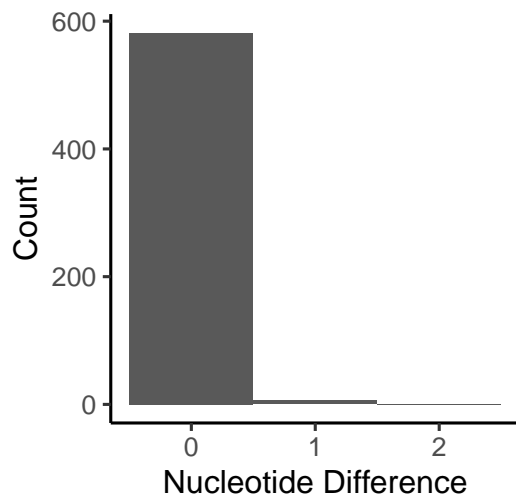
TRBV7-6*ap01

1604 sequences assigned
1580 (98.5%) exact matches, in which:
1547 unique CDR3
13 unique J



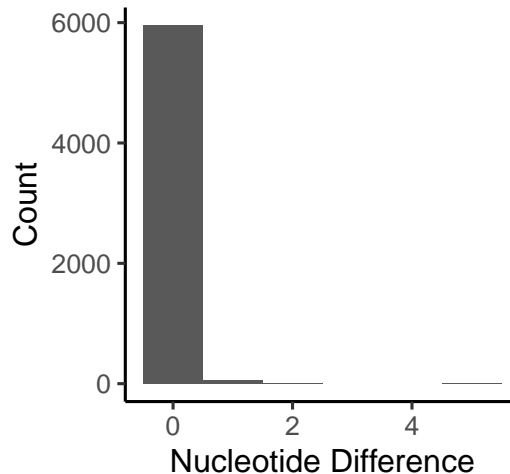
TRBV7-7*ap01_C315T

589 sequences assigned
582 (98.8%) exact matches, in which:
577 unique CDR3
13 unique J



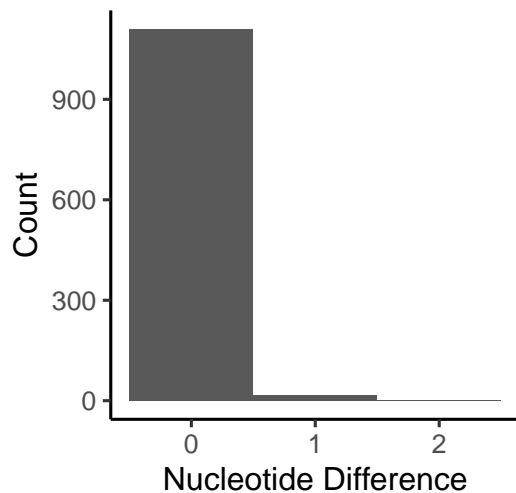
TRBV7-9*ap01

6014 sequences assigned
5954 (99%) exact matches, in which:
5863 unique CDR3
13 unique J



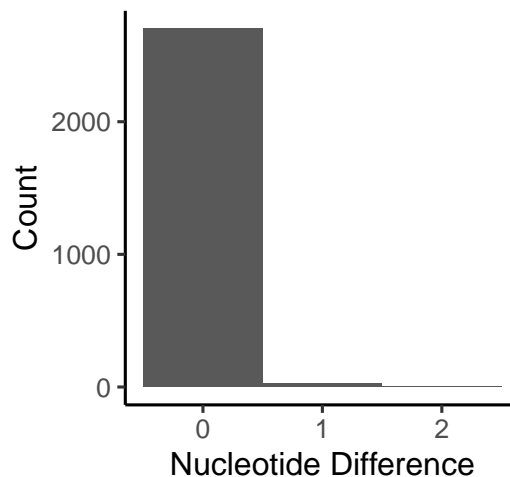
TRBV7-8*ap01

1127 sequences assigned
1110 (98.5%) exact matches, in which:
1086 unique CDR3
13 unique J



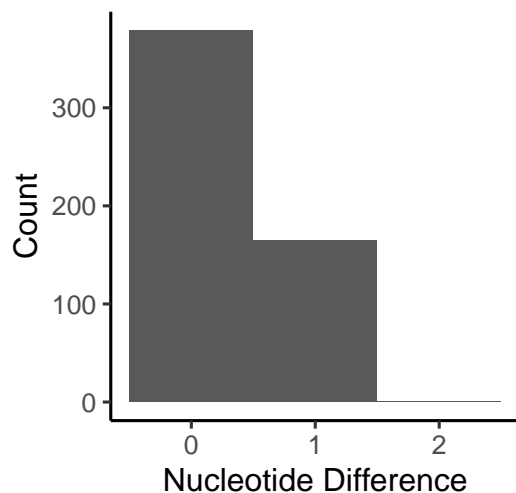
TRBV29-1*ap01

2736 sequences assigned
2701 (98.7%) exact matches, in which:
2655 unique CDR3
13 unique J



TRBV7-8*ap03

545 sequences assigned
379 (69.5%) exact matches, in which:
375 unique CDR3
13 unique J



TRBV29-1*ap02

507 sequences assigned
497 (98%) exact matches, in which:
482 unique CDR3
13 unique J

