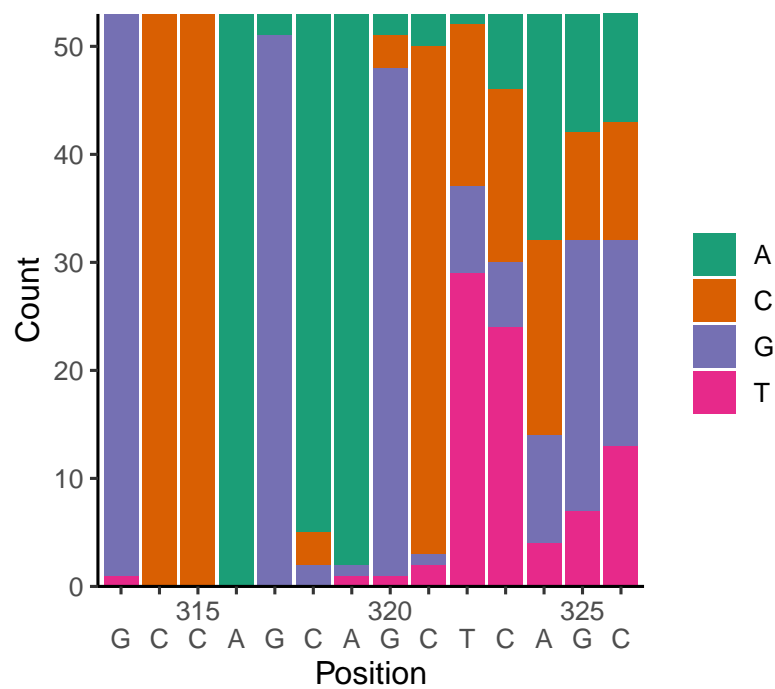
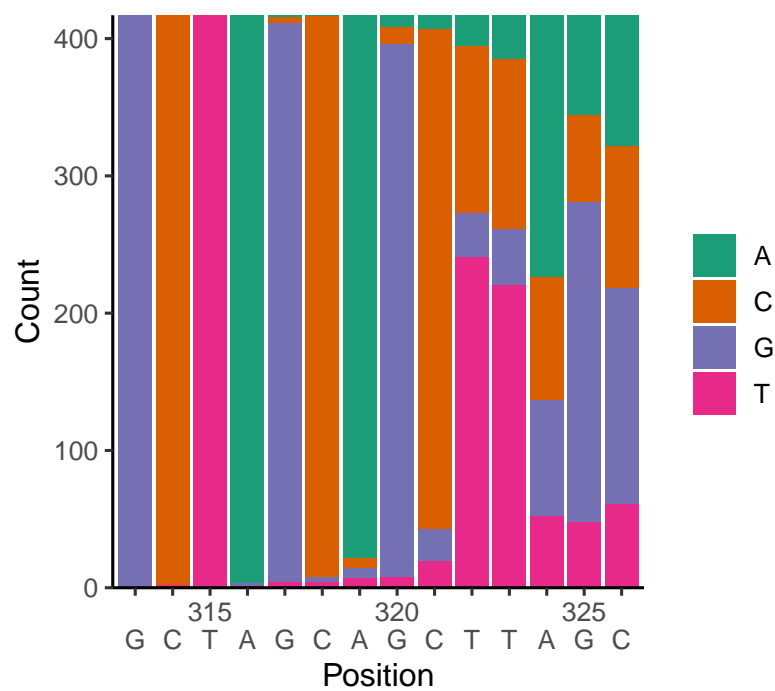


Gene TRBV7-1\*ap01\_G291C\_T296C

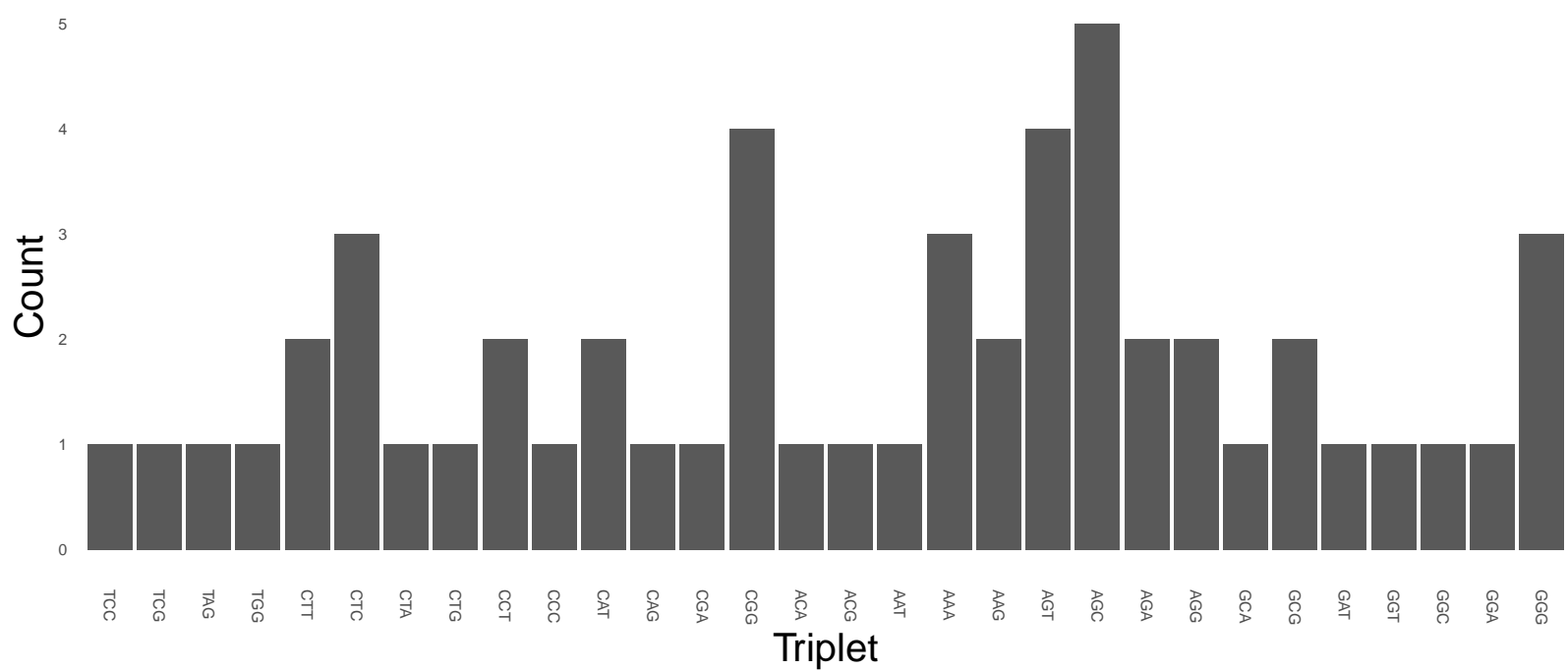


Gene TRBV7-7\*ap01\_C315T

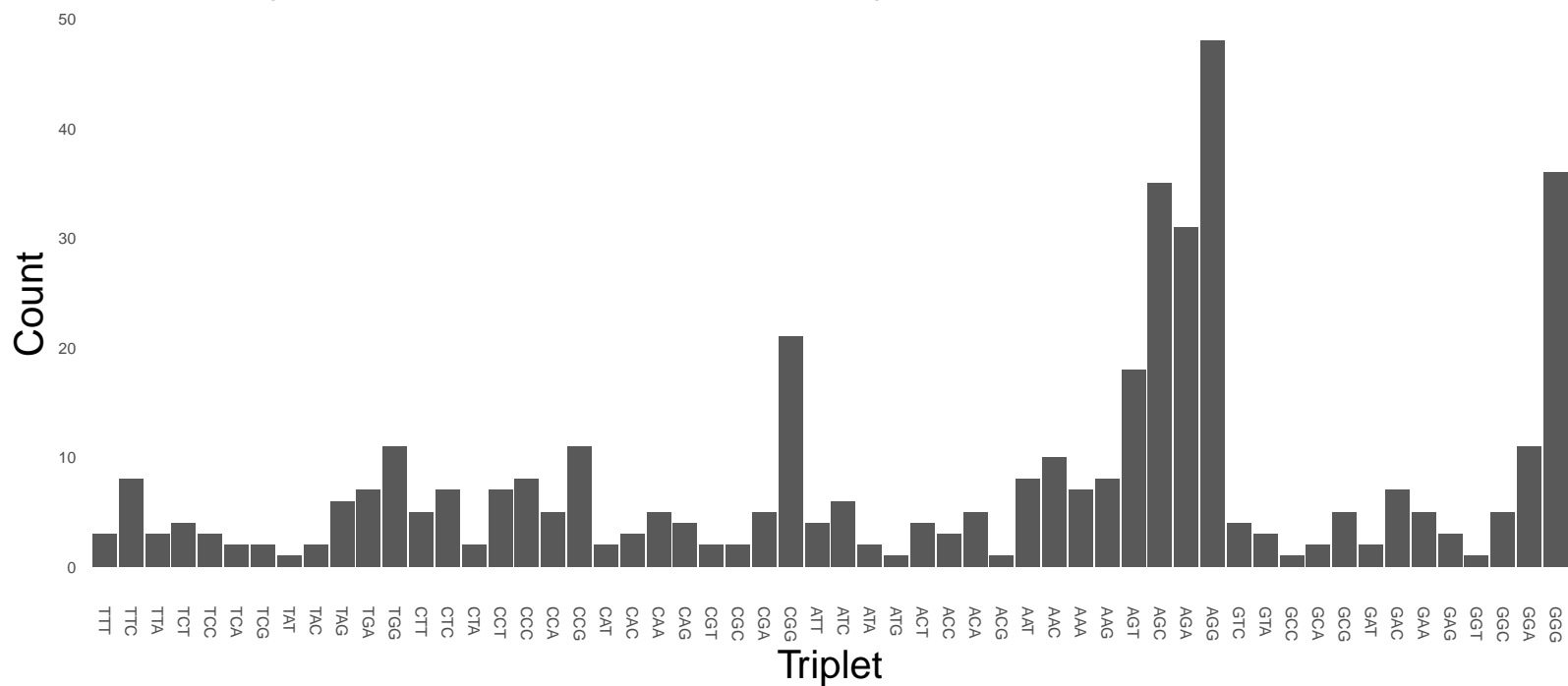




TRBV7-1\*ap01\_G291C\_T296C- Final 3 nucleotides as a triplet

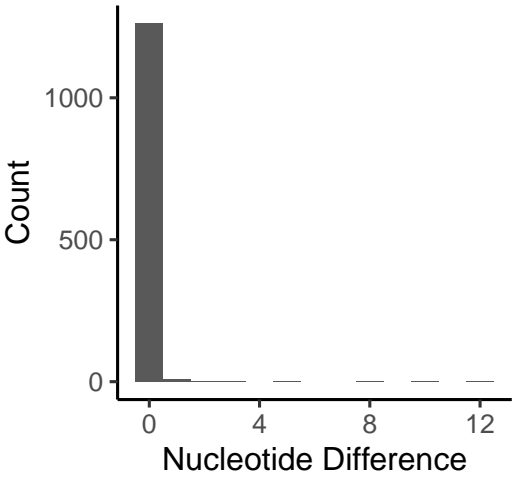


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



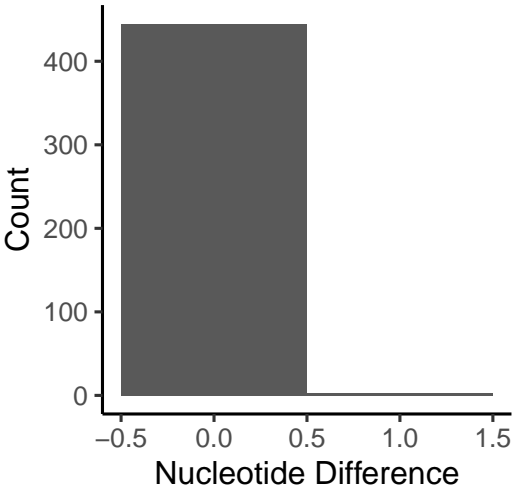
TRBV10-1\*ap01

1280 sequences assigned  
1262 (98.6%) exact matches, in which:  
1237 unique CDR3  
13 unique J



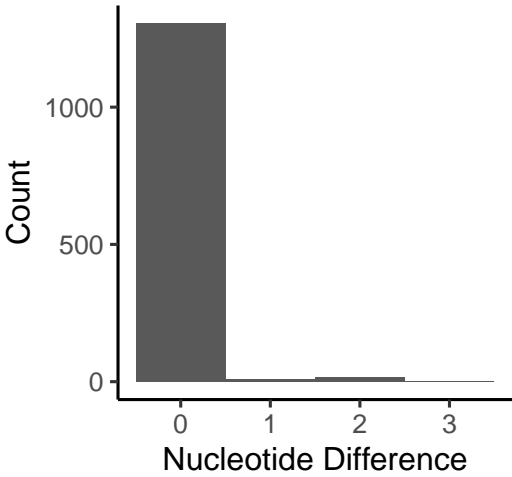
TRBV10-2\*ap01

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



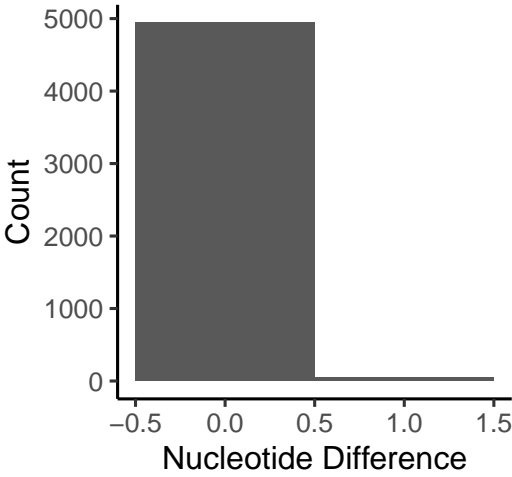
TRBV13\*ap01

1331 sequences assigned  
1305 (98%) exact matches, in which:  
1277 unique CDR3  
13 unique J



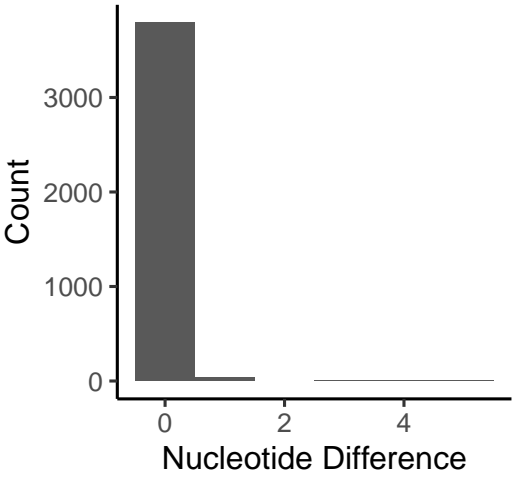
TRBV20-1\*ap01

4986 sequences assigned  
4943 (99.1%) exact matches, in which:  
4887 unique CDR3  
13 unique J



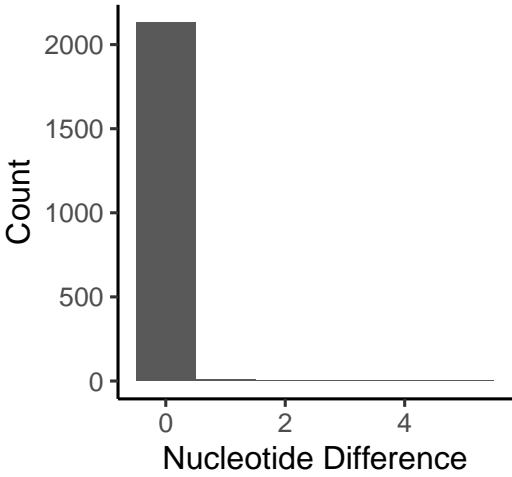
TRBV10-3\*ap01

3829 sequences assigned  
3791 (99%) exact matches, in which:  
3746 unique CDR3  
13 unique J



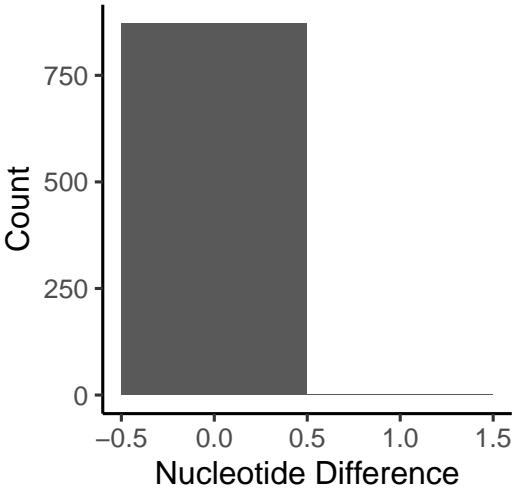
TRBV14\*ap01

2146 sequences assigned  
2130 (99.3%) exact matches, in which:  
2101 unique CDR3  
13 unique J



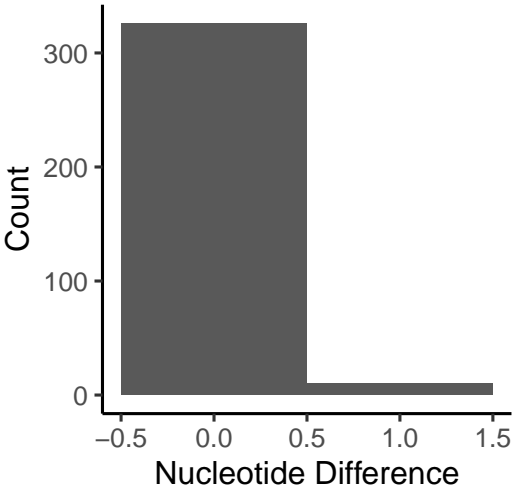
TRBV20-1\*ap02

873 sequences assigned  
872 (99.9%) exact matches, in which:  
864 unique CDR3  
13 unique J



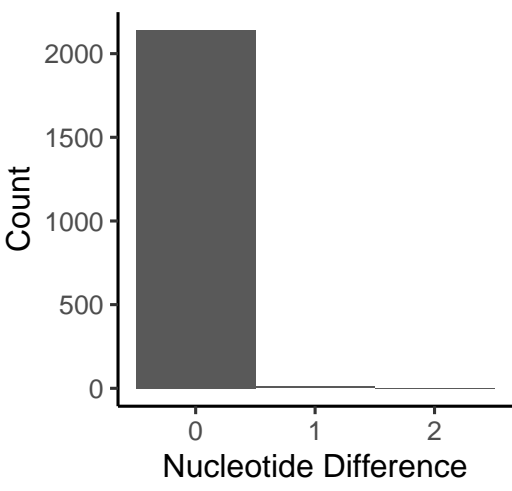
TRBV1\*ap01

336 sequences assigned  
326 (97%) exact matches, in which:  
322 unique CDR3  
12 unique J



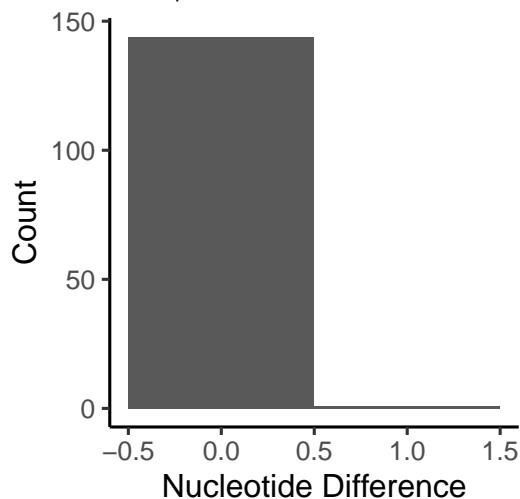
TRBV15\*ap02

2153 sequences assigned  
2141 (99.4%) exact matches, in which:  
2100 unique CDR3  
13 unique J



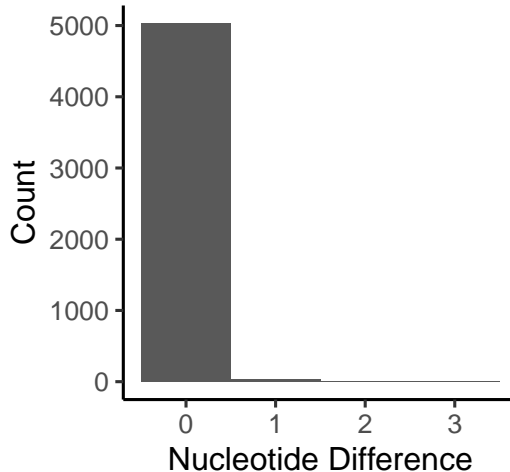
### TRBV16\*ap01

145 sequences assigned  
144 (99.3%) exact matches, in which:  
143 unique CDR3  
12 unique J



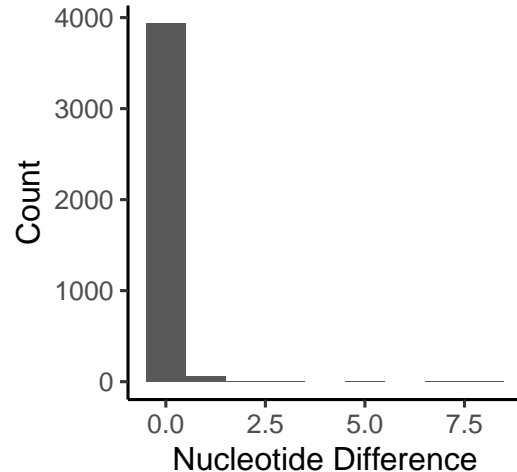
### TRBV2\*ap01

5073 sequences assigned  
5030 (99.2%) exact matches, in which:  
4948 unique CDR3  
14 unique J



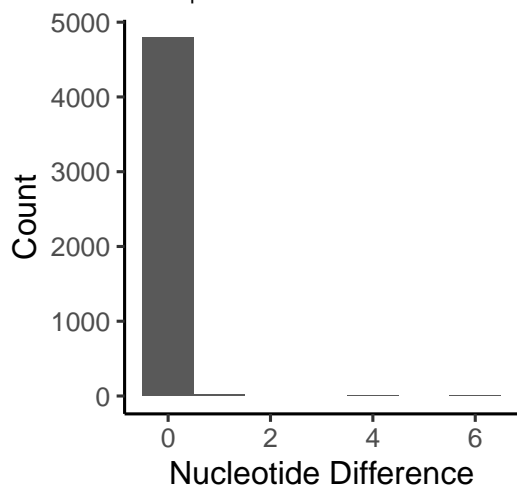
### TRBV30\*ap01

4008 sequences assigned  
3936 (98.2%) exact matches, in which:  
3862 unique CDR3  
13 unique J



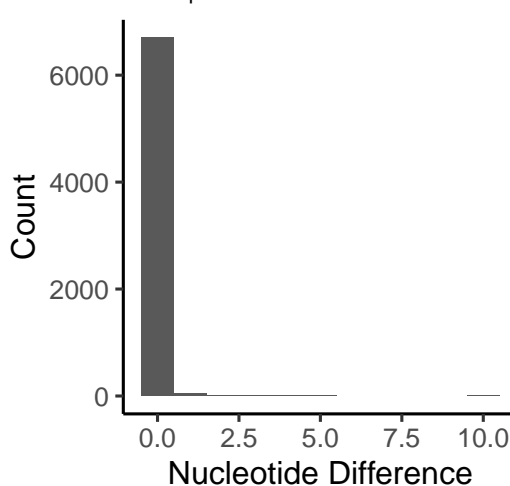
### TRBV18\*ap01

4812 sequences assigned  
4792 (99.6%) exact matches, in which:  
4756 unique CDR3  
13 unique J



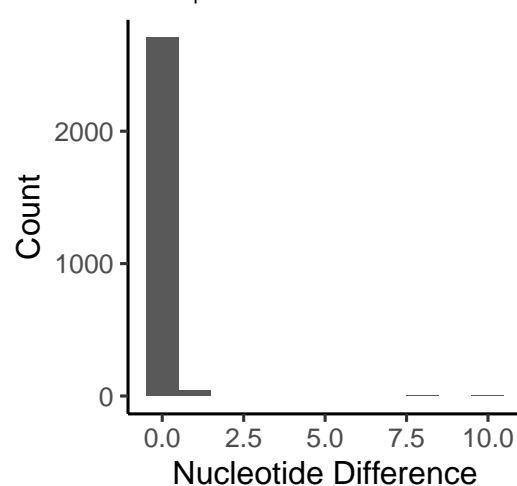
### TRBV27\*ap01

6756 sequences assigned  
6700 (99.2%) exact matches, in which:  
6577 unique CDR3  
13 unique J



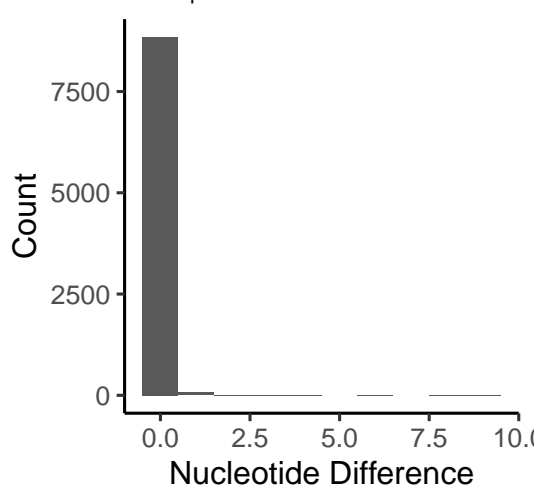
### TRBV30\*ap02

2748 sequences assigned  
2706 (98.5%) exact matches, in which:  
2657 unique CDR3  
13 unique J



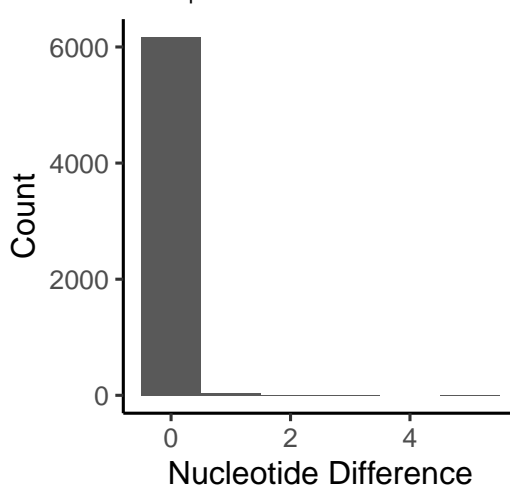
### TRBV19\*ap01

8924 sequences assigned  
8845 (99.1%) exact matches, in which:  
8764 unique CDR3  
13 unique J



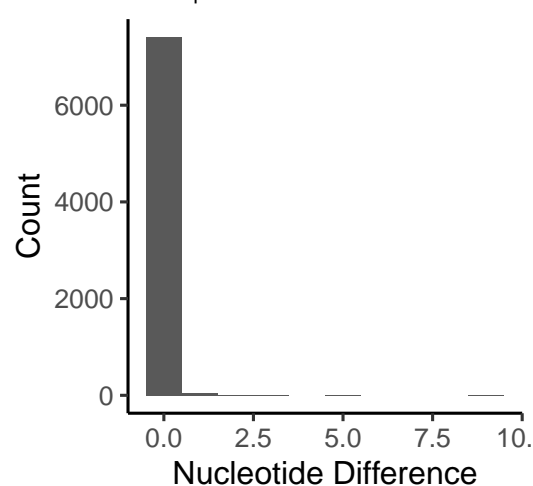
### TRBV28\*ap01

6220 sequences assigned  
6171 (99.2%) exact matches, in which:  
6100 unique CDR3  
13 unique J



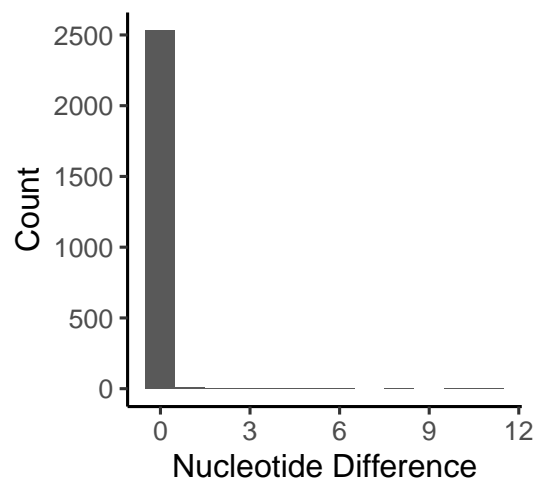
### TRBV9\*ap01

7464 sequences assigned  
7410 (99.3%) exact matches, in which:  
7326 unique CDR3  
13 unique J



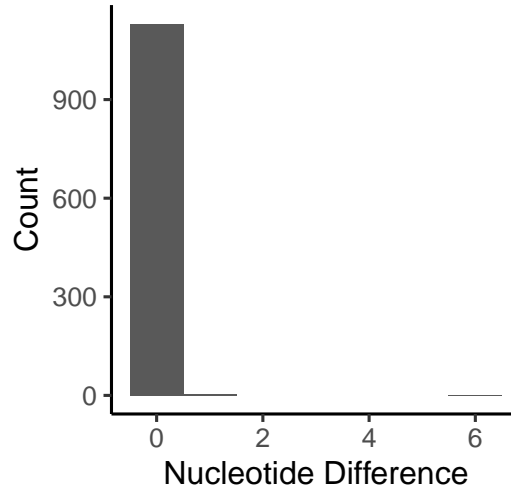
### TRBV21-1\*ap01

2566 sequences assigned  
2532 (98.7%) exact matches, in which:  
2513 unique CDR3  
13 unique J



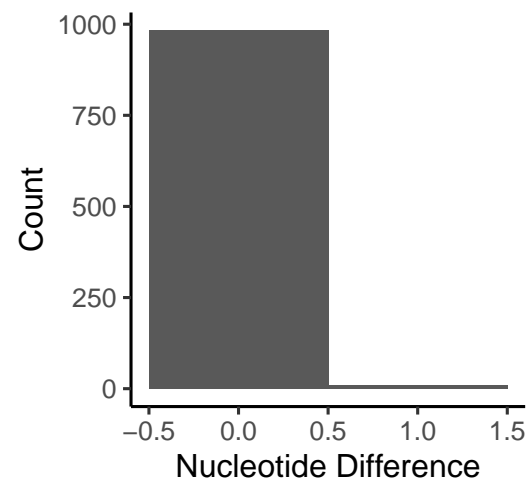
### TRBV11-3\*ap01

1137 sequences assigned  
1131 (99.5%) exact matches, in which:  
1120 unique CDR3  
13 unique J



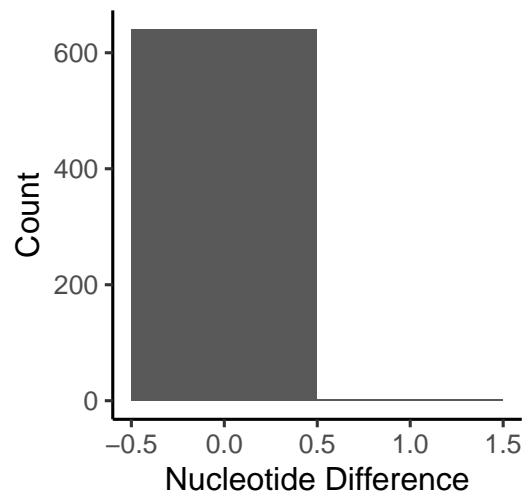
### TRBV12-5\*ap01

994 sequences assigned  
983 (98.9%) exact matches, in which:  
971 unique CDR3  
13 unique J



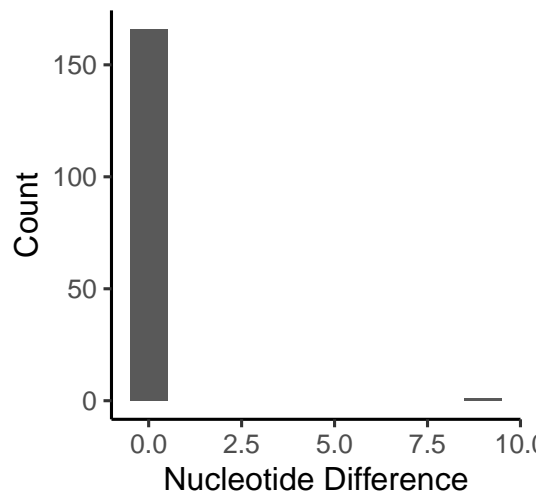
### TRBV11-1\*ap01

643 sequences assigned  
641 (99.7%) exact matches, in which:  
638 unique CDR3  
13 unique J



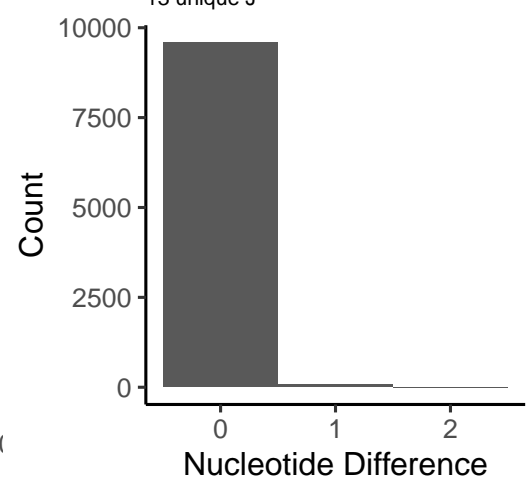
### TRBV12-1\*ap01

167 sequences assigned  
166 (99.4%) exact matches, in which:  
163 unique CDR3  
13 unique J



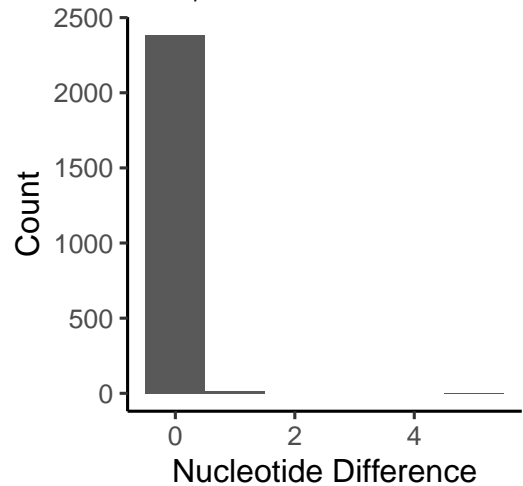
### TRBV12-34\*ap01

9677 sequences assigned  
9590 (99.1%) exact matches, in which:  
9431 unique CDR3  
13 unique J



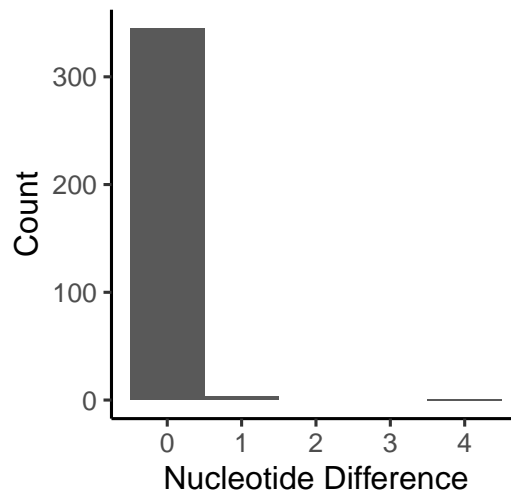
### TRBV11-2\*ap01

2400 sequences assigned  
2384 (99.3%) exact matches, in which:  
2372 unique CDR3  
13 unique J



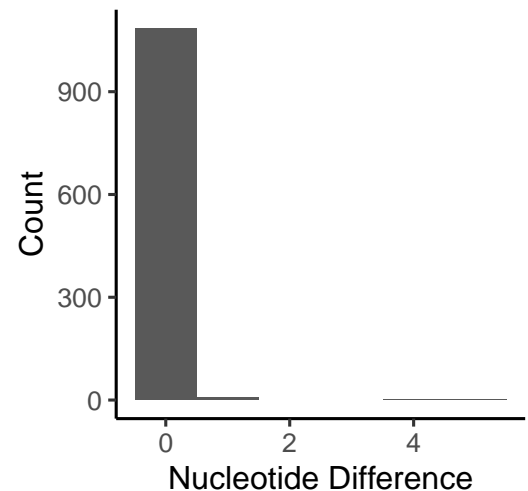
### TRBV12-2\*ap01

349 sequences assigned  
345 (98.9%) exact matches, in which:  
341 unique CDR3  
13 unique J



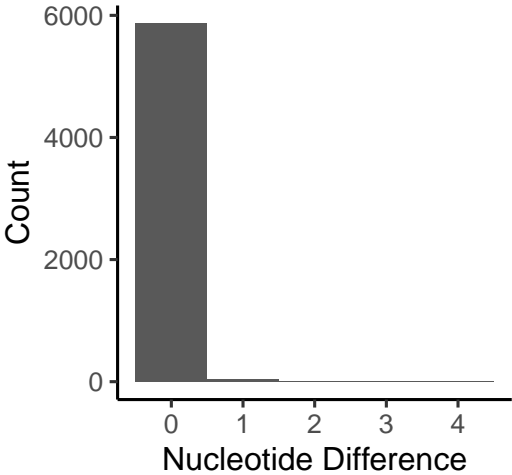
### TRBV23-1\*ap01

1095 sequences assigned  
1085 (99.1%) exact matches, in which:  
1072 unique CDR3  
13 unique J



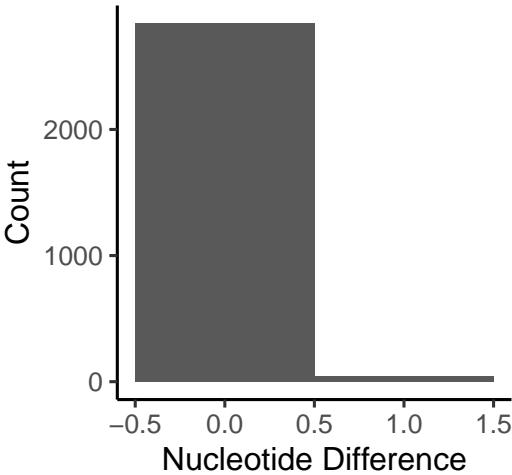
TRBV3-12\*ap01

5910 sequences assigned  
5868 (99.3%) exact matches, in which:  
5828 unique CDR3  
13 unique J



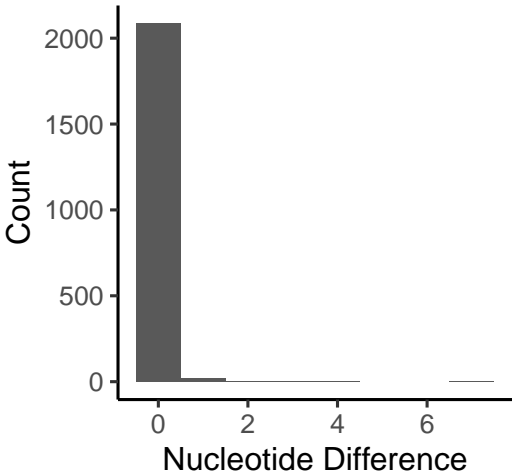
TRBV4-2\*ap01

2881 sequences assigned  
2841 (98.6%) exact matches, in which:  
2793 unique CDR3  
13 unique J



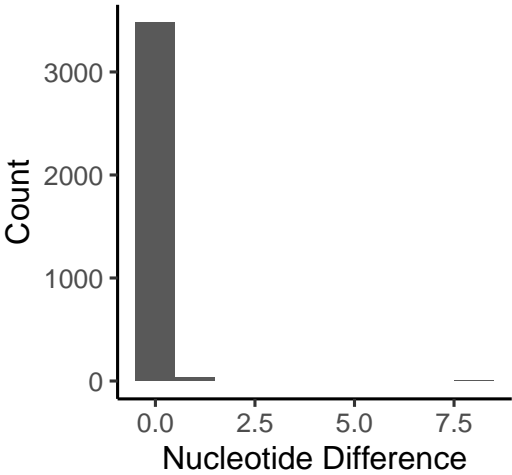
TRBV25-1\*ap01

2113 sequences assigned  
2086 (98.7%) exact matches, in which:  
2037 unique CDR3  
13 unique J



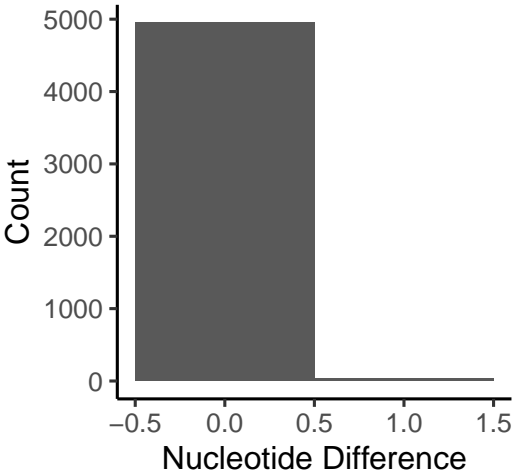
TRBV4-1\*ap01

3510 sequences assigned  
3478 (99.1%) exact matches, in which:  
3414 unique CDR3  
13 unique J



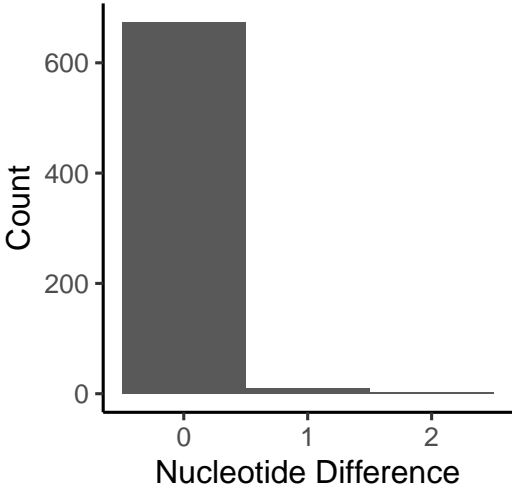
TRBV4-3\*ap01

4992 sequences assigned  
4951 (99.2%) exact matches, in which:  
4847 unique CDR3  
13 unique J



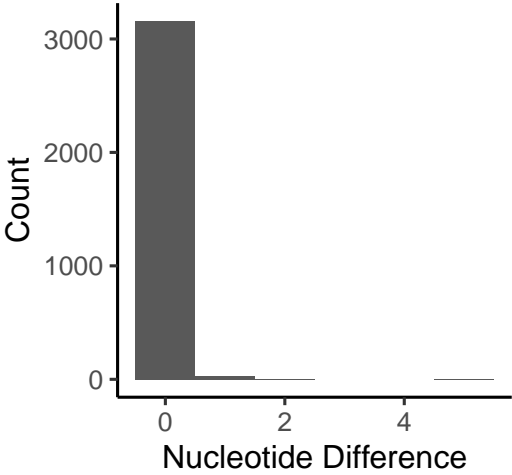
TRBV5-3\*ap01

686 sequences assigned  
674 (98.3%) exact matches, in which:  
658 unique CDR3  
13 unique J



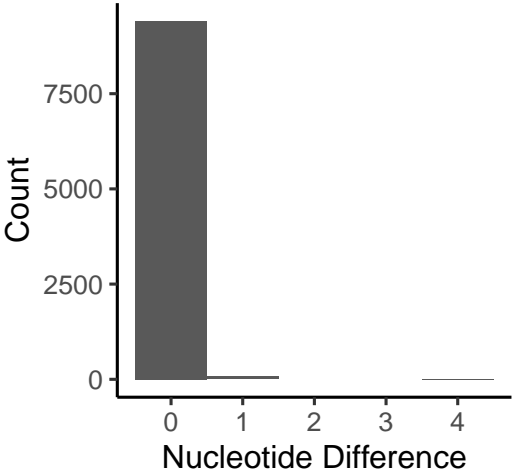
TRBV24-1\*ap01

3195 sequences assigned  
3158 (98.8%) exact matches, in which:  
3110 unique CDR3  
13 unique J



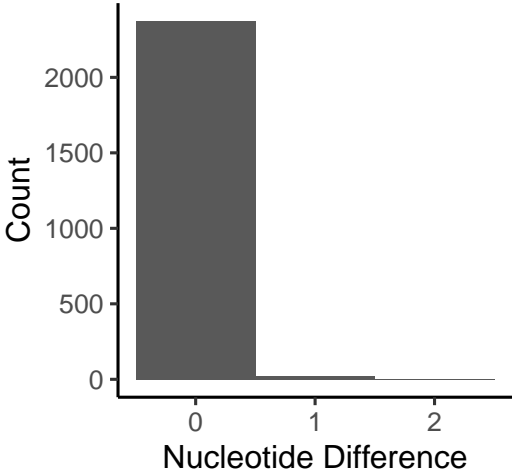
TRBV5-1\*ap01

9479 sequences assigned  
9407 (99.2%) exact matches, in which:  
9203 unique CDR3  
13 unique J



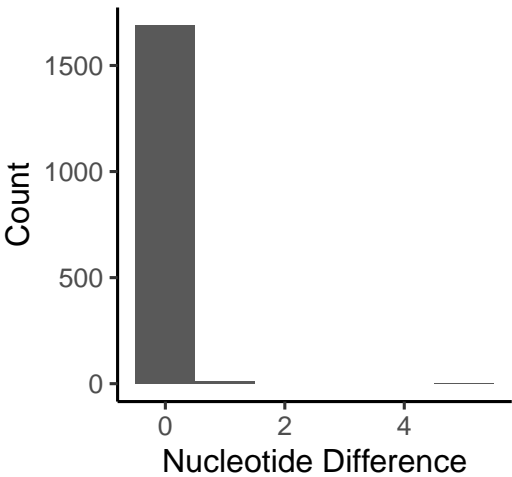
TRBV5-4\*ap01

2396 sequences assigned  
2373 (99%) exact matches, in which:  
2321 unique CDR3  
13 unique J



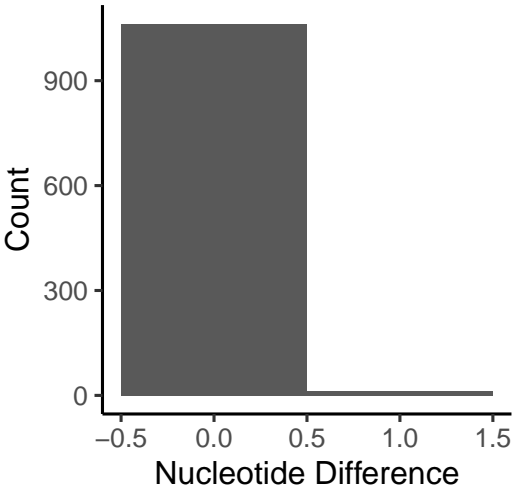
TRBV5-5\*ap01

1700 sequences assigned  
1689 (99.4%) exact matches, in which:  
1673 unique CDR3  
13 unique J



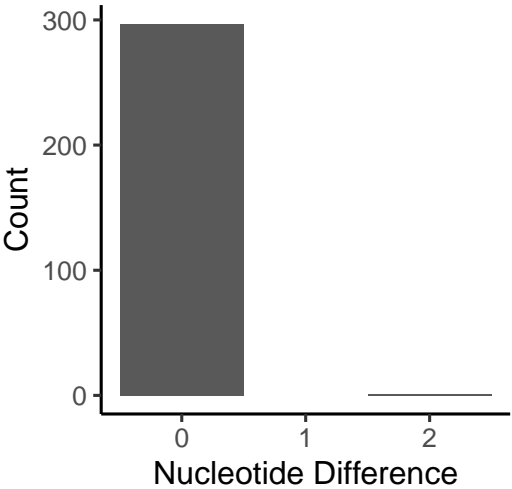
TRBV5-8\*ap01

1076 sequences assigned  
1063 (98.8%) exact matches, in which:  
1055 unique CDR3  
13 unique J



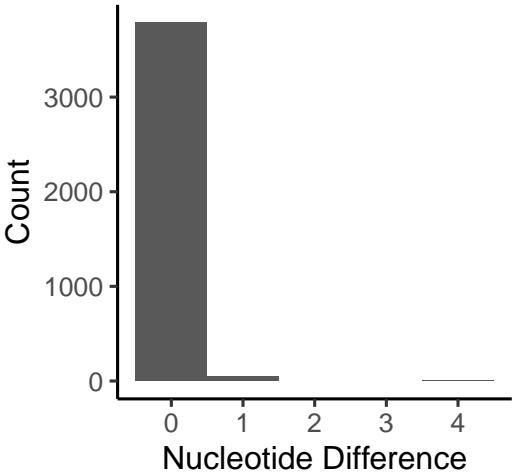
TRBV6-7\*ap01

298 sequences assigned  
297 (99.7%) exact matches, in which:  
291 unique CDR3  
13 unique J



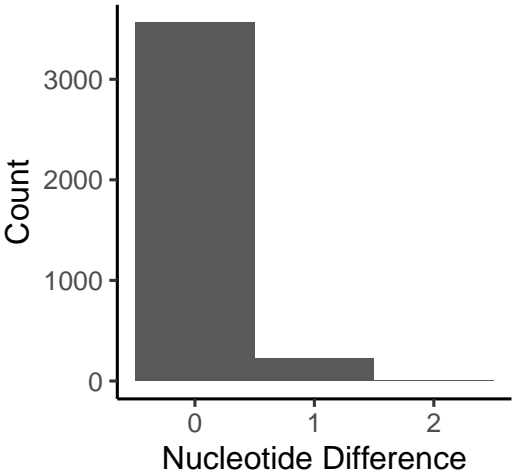
TRBV5-6\*ap01

3830 sequences assigned  
3786 (98.9%) exact matches, in which:  
3701 unique CDR3  
13 unique J



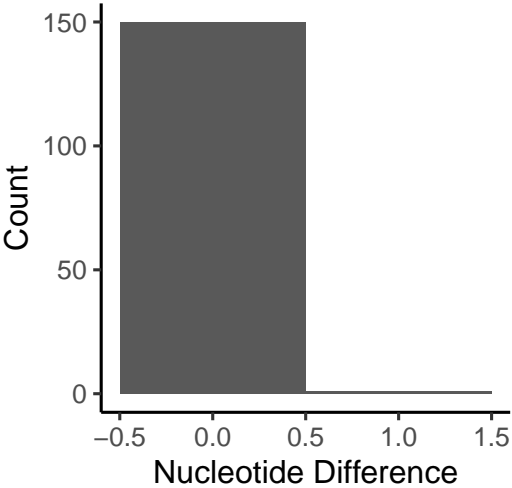
TRBV6-1\*ap01

3788 sequences assigned  
3562 (94%) exact matches, in which:  
3511 unique CDR3  
13 unique J



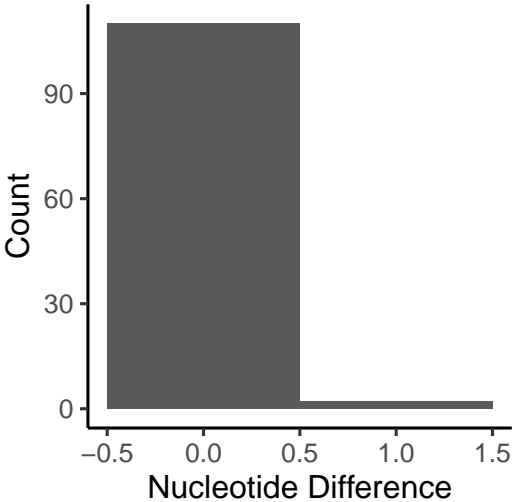
TRBV6-8\*ap01

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



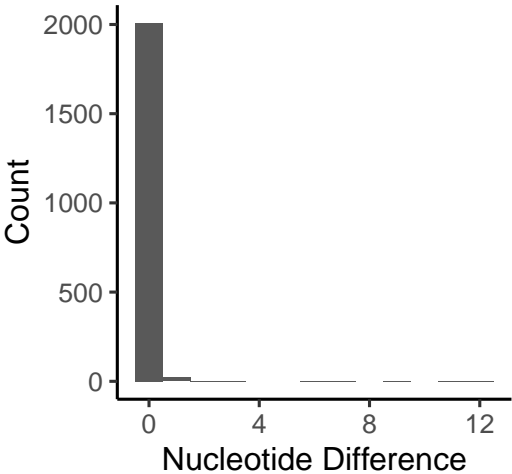
TRBV5-7\*ap01

112 sequences assigned  
110 (98.2%) exact matches, in which:  
110 unique CDR3  
13 unique J



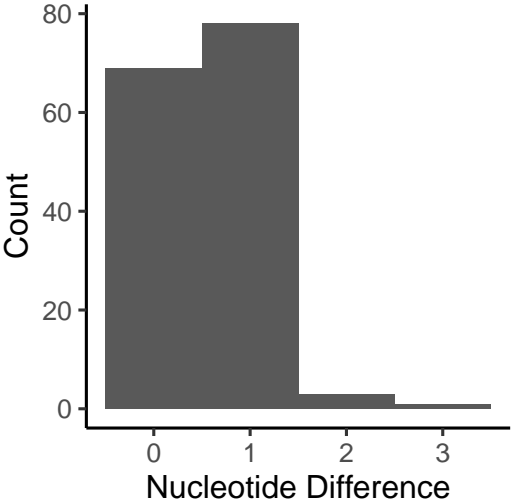
TRBV6-4\*ap01

2039 sequences assigned  
2008 (98.5%) exact matches, in which:  
1980 unique CDR3  
13 unique J



TRBV6-9\*ap01

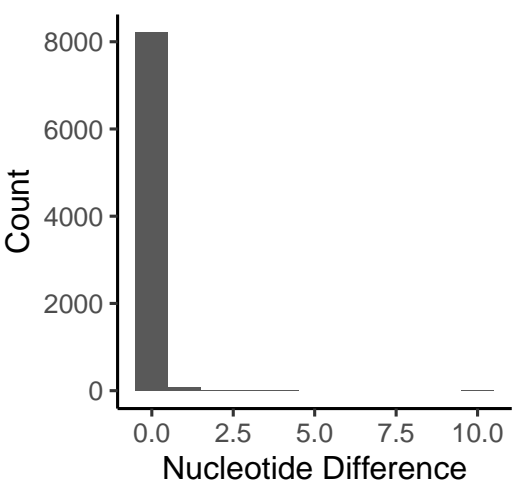
151 sequences assigned  
69 (45.7%) exact matches, in which:  
68 unique CDR3  
12 unique J





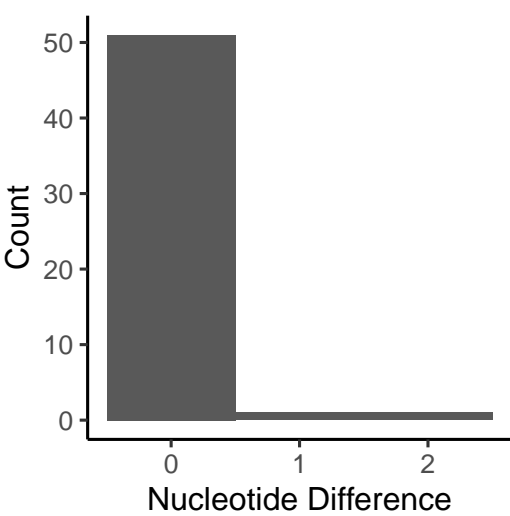
TRBV6-23\*ap01

8314 sequences assigned  
8214 (98.8%) exact matches, in which:  
7986 unique CDR3  
13 unique J



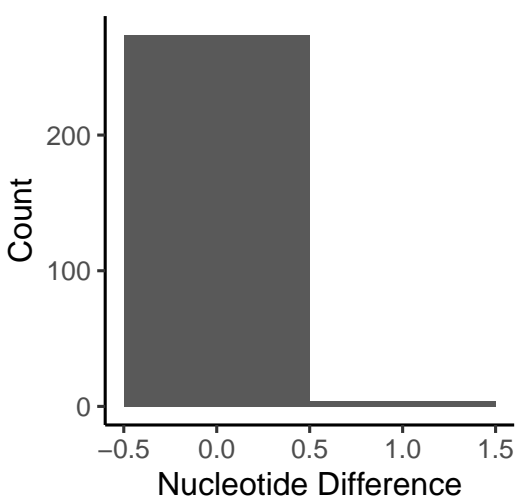
TRBV7-1\*ap01\_G291C\_T

53 sequences assigned  
51 (96.2%) exact matches, in which:  
50 unique CDR3  
10 unique J



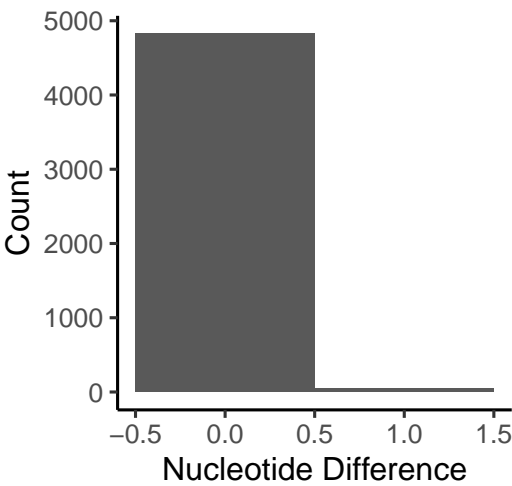
TRBV7-4\*ap01

278 sequences assigned  
274 (98.6%) exact matches, in which:  
269 unique CDR3  
13 unique J



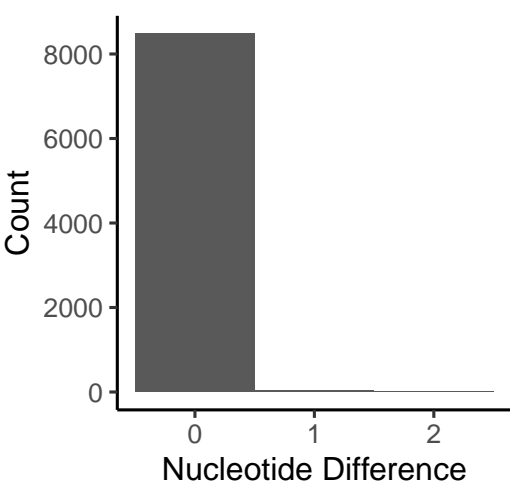
TRBV6-56\*ap01

4875 sequences assigned  
4825 (99%) exact matches, in which:  
4721 unique CDR3  
13 unique J



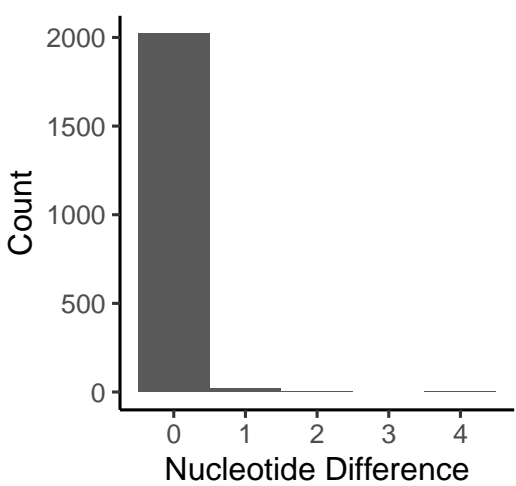
TRBV7-2\*ap01

8526 sequences assigned  
8480 (99.5%) exact matches, in which:  
8377 unique CDR3  
13 unique J



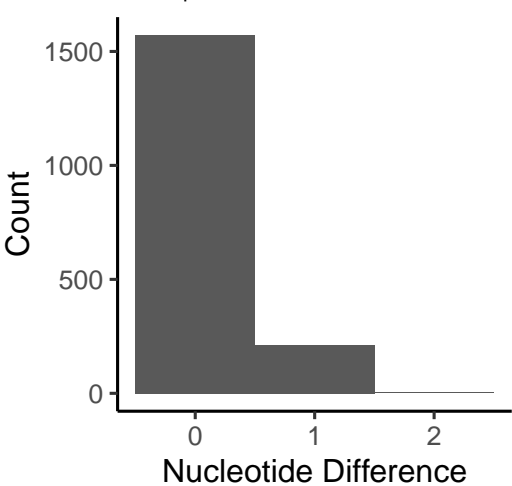
TRBV7-6\*ap01

2040 sequences assigned  
2021 (99.1%) exact matches, in which:  
1985 unique CDR3  
13 unique J



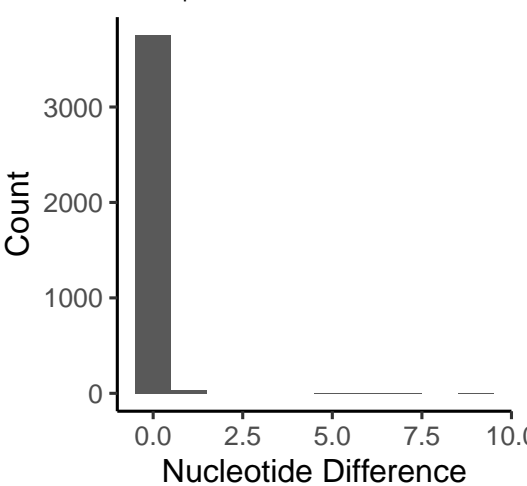
TRBV6-56\*ap02

1787 sequences assigned  
1572 (88%) exact matches, in which:  
1524 unique CDR3  
13 unique J



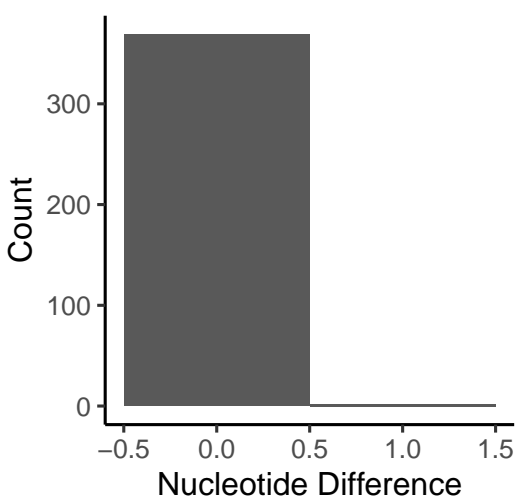
TRBV7-3\*ap01

3793 sequences assigned  
3754 (99%) exact matches, in which:  
3722 unique CDR3  
13 unique J



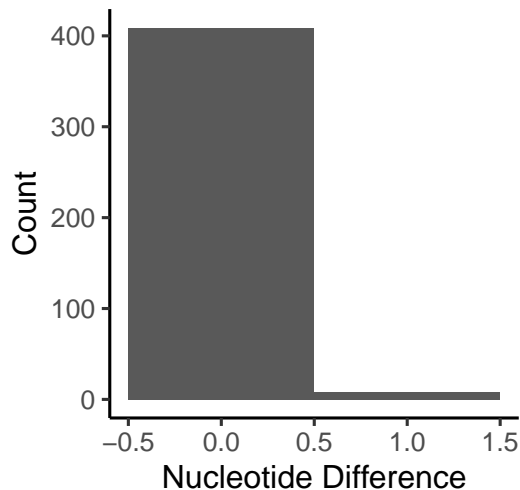
TRBV7-7\*ap01

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



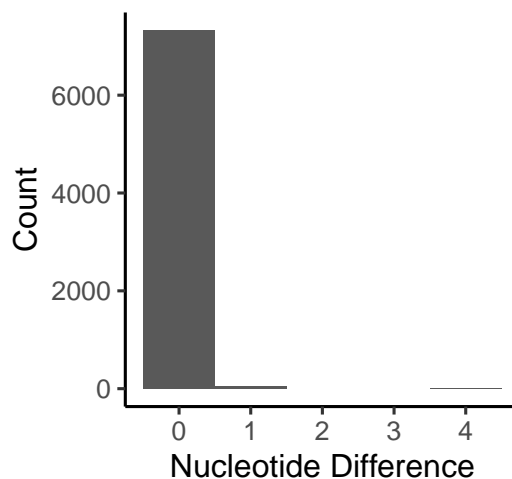
### TRBV7-7\*ap01\_C315T

417 sequences assigned  
409 (98.1%) exact matches, in which:  
402 unique CDR3  
13 unique J



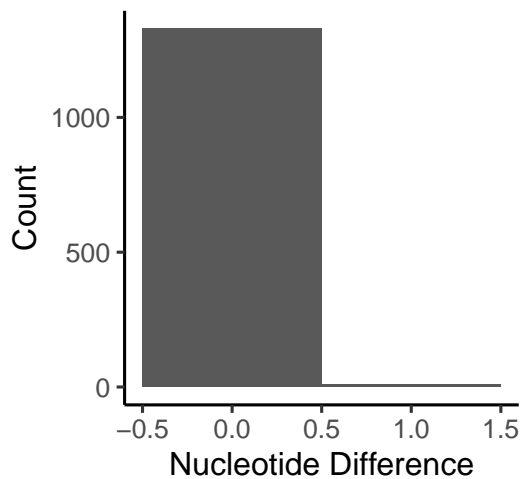
### TRBV7-9\*ap01

7378 sequences assigned  
7324 (99.3%) exact matches, in which:  
7228 unique CDR3  
13 unique J



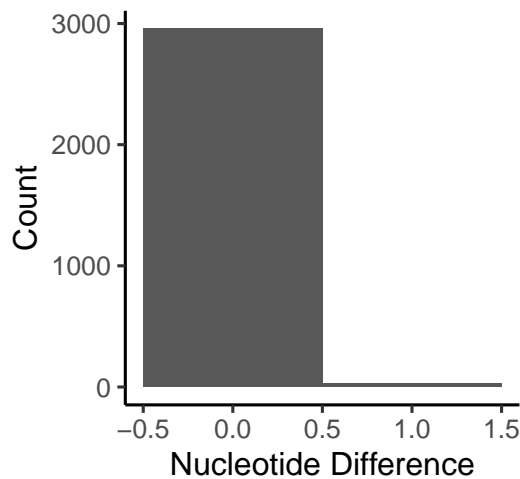
### TRBV7-8\*ap01

1340 sequences assigned  
1329 (99.2%) exact matches, in which:  
1314 unique CDR3  
13 unique J



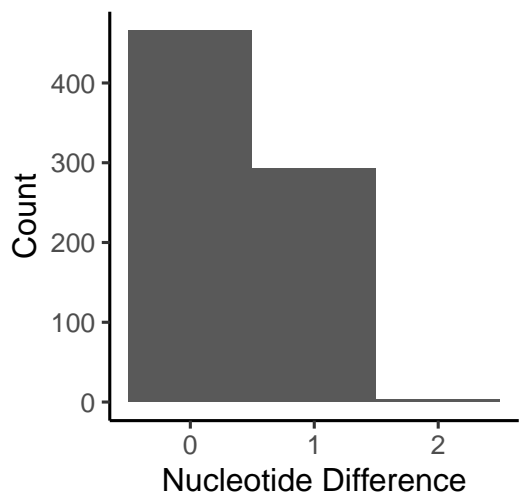
### TRBV29-1\*ap01

2990 sequences assigned  
2957 (98.9%) exact matches, in which:  
2891 unique CDR3  
13 unique J



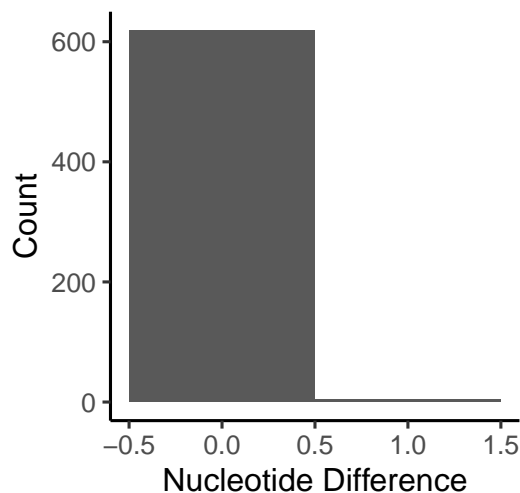
### TRBV7-8\*ap03

762 sequences assigned  
466 (61.2%) exact matches, in which:  
459 unique CDR3  
13 unique J

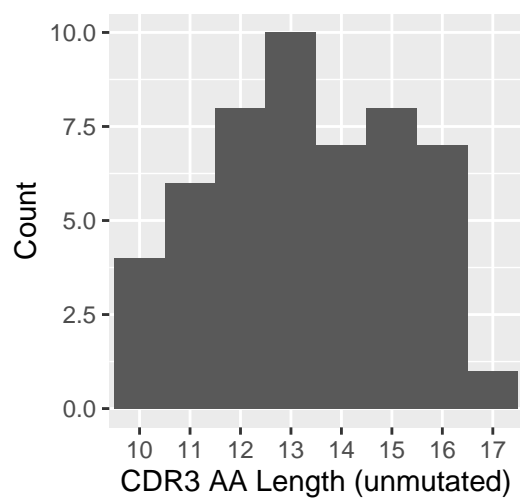


### TRBV29-1\*ap02

623 sequences assigned  
619 (99.4%) exact matches, in which:  
601 unique CDR3  
13 unique J



TRBV7-1\*ap01\_G291C\_T296C



TRBV7-7\*ap01\_C315T

