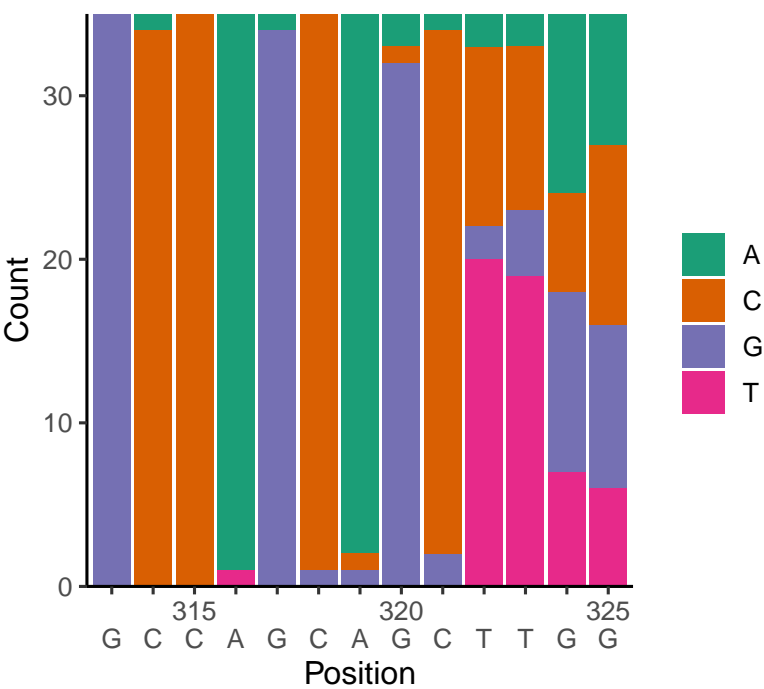
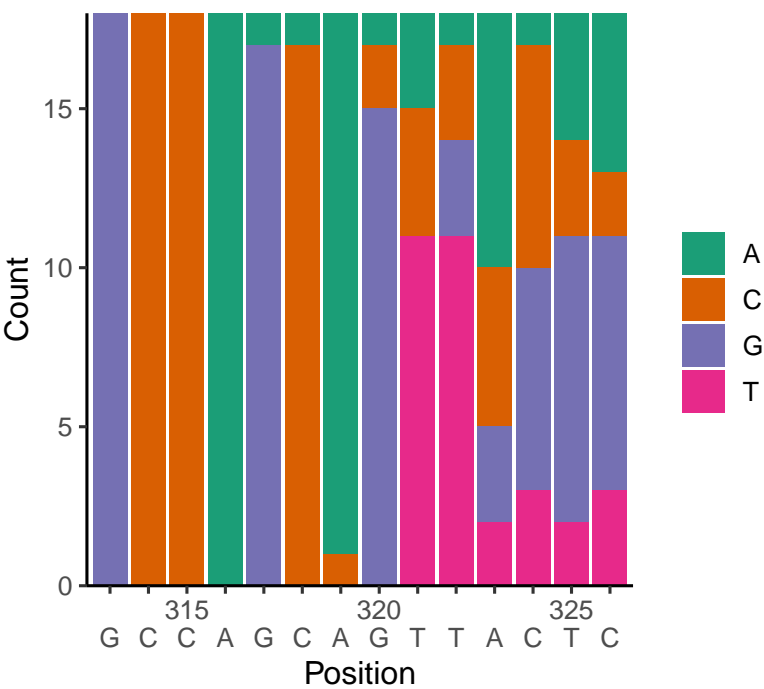


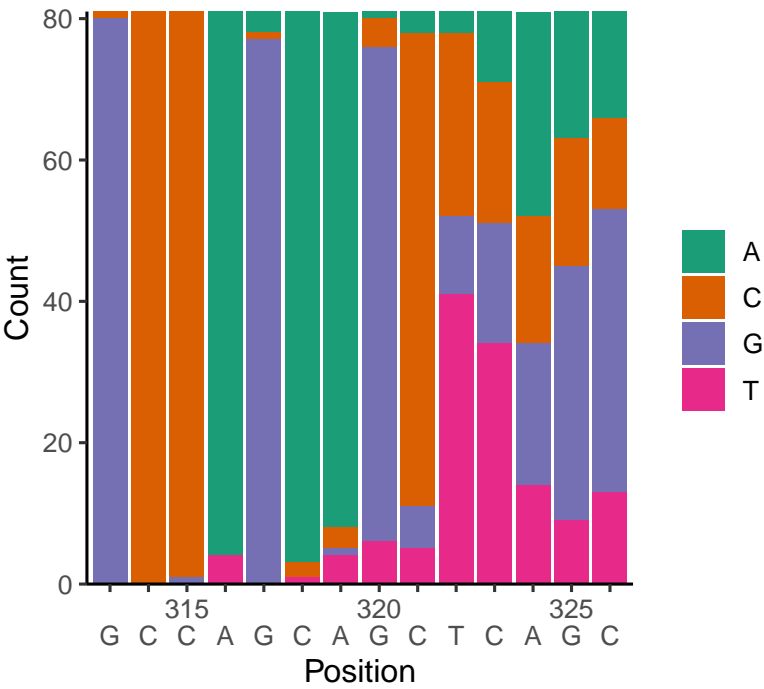
Gene TRBV5-7\*ap01\_G290A



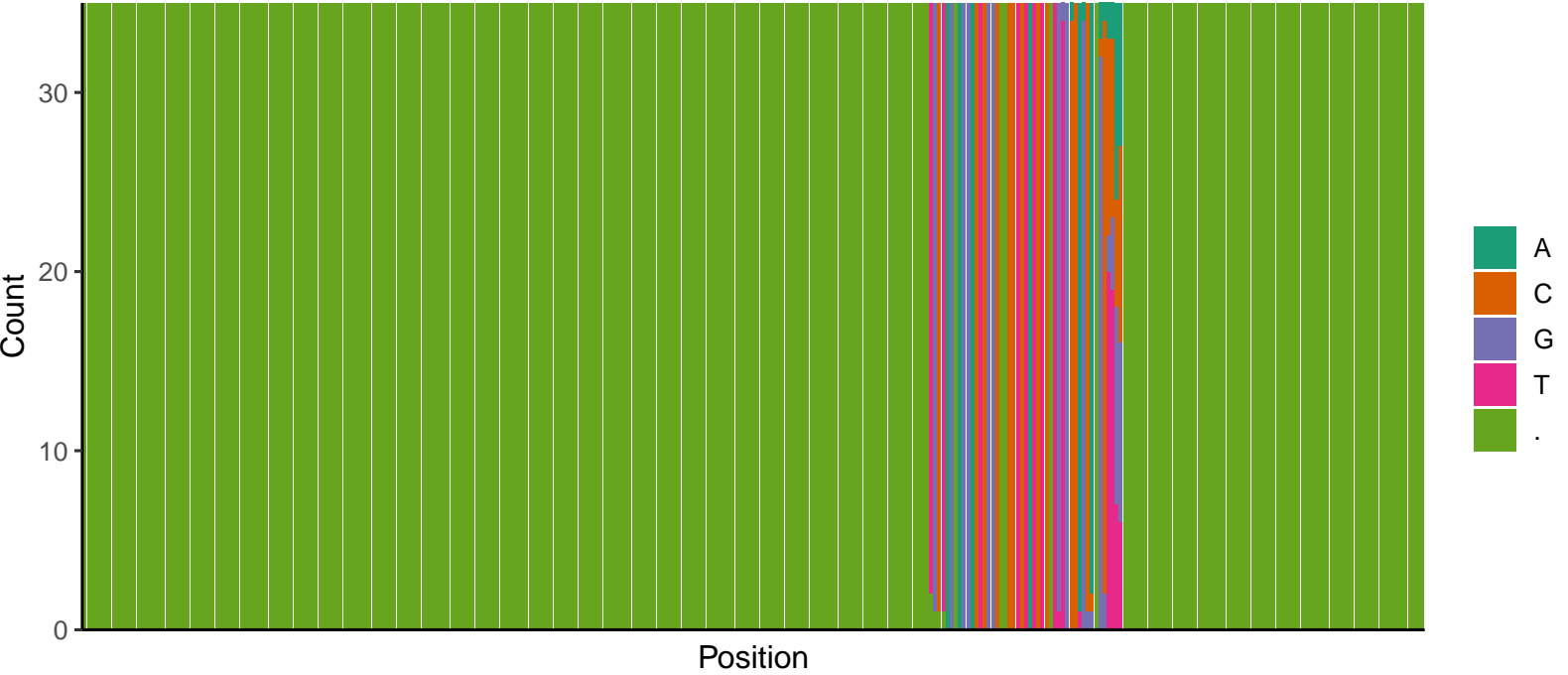
Gene TRBV6-8\*ap01\_A293G



Gene TRBV7-1\*ap01\_G291C\_T296C



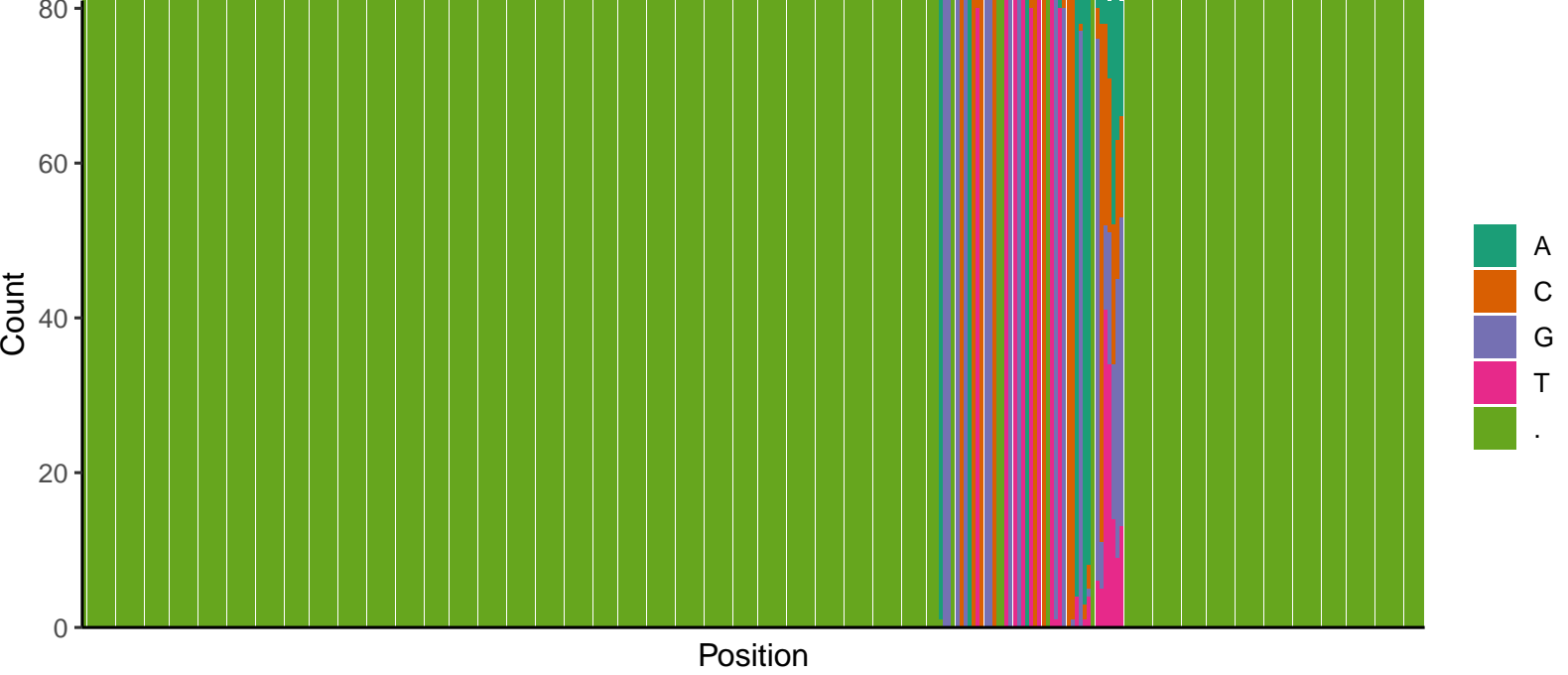
Gene TRBV5-7\*ap01\_G290A



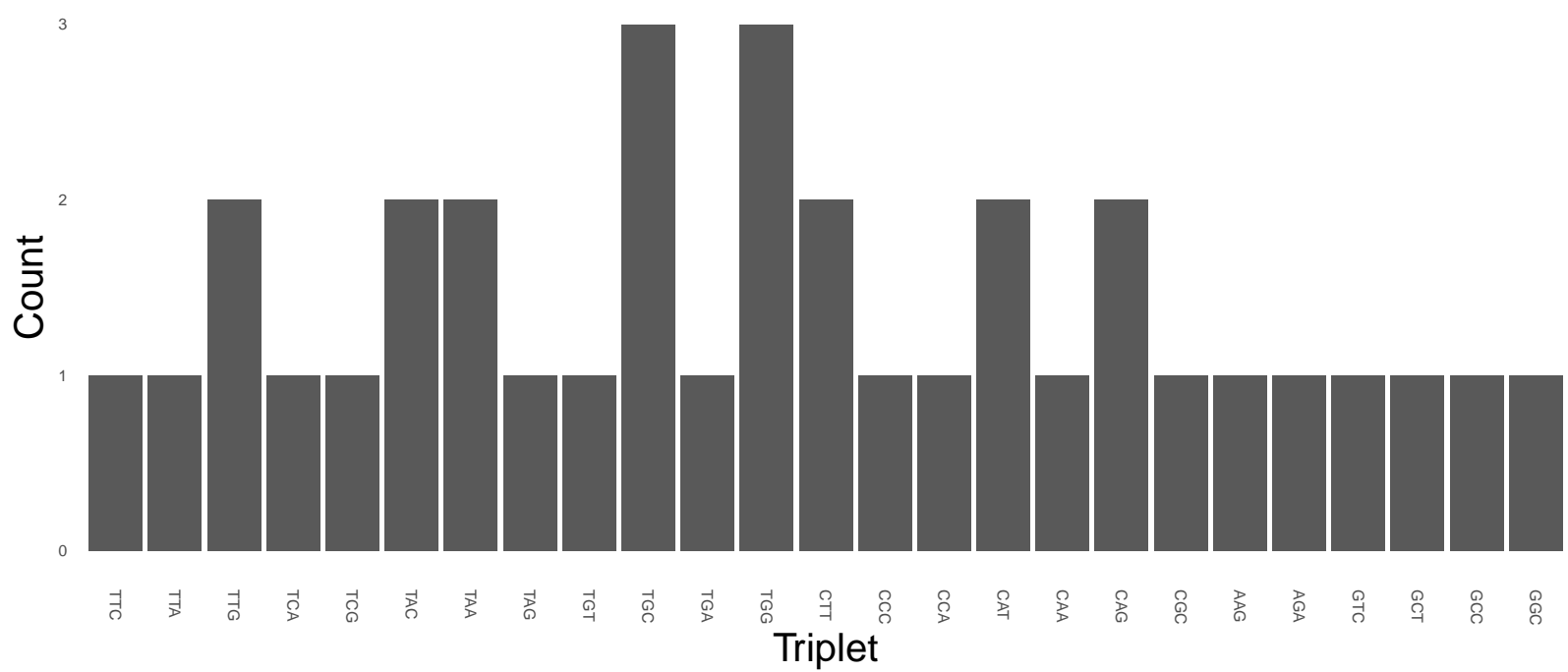
Gene TRBV6-8\*ap01\_A293G



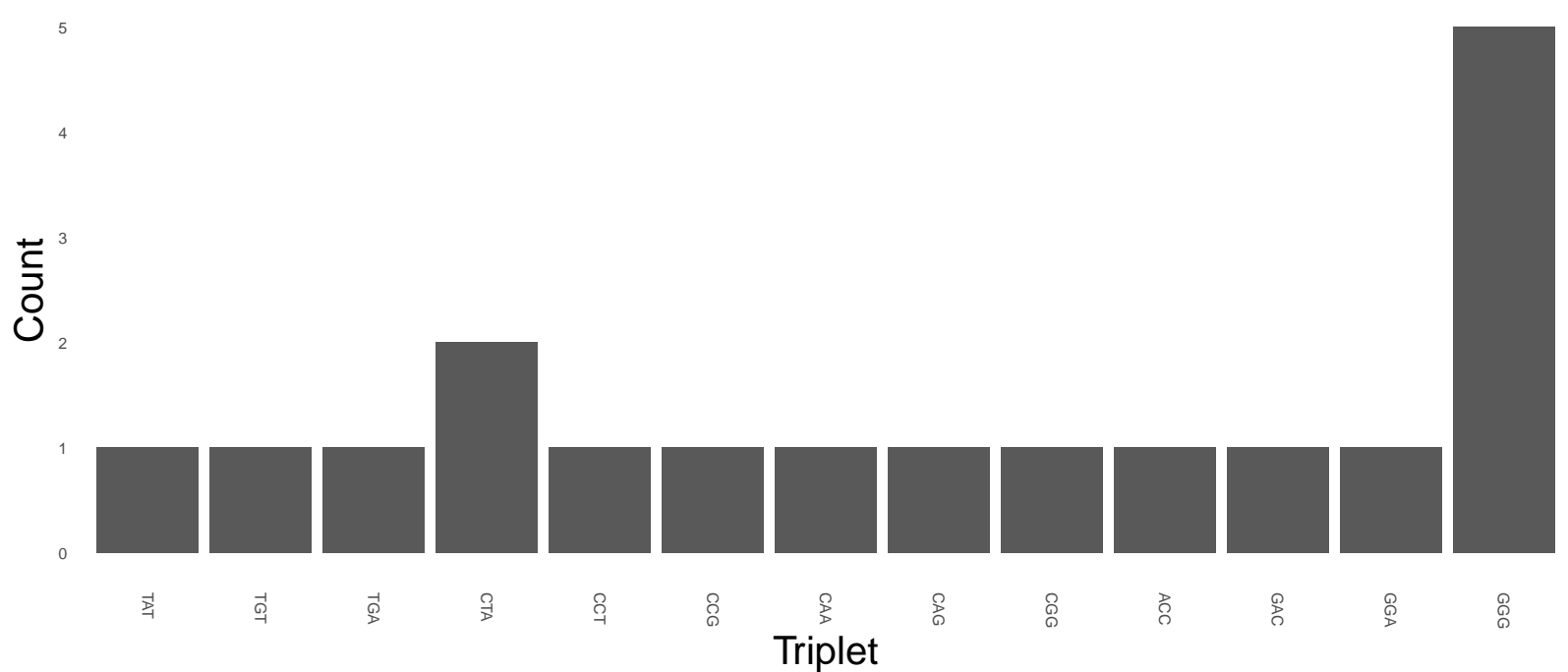
Gene TRBV7-1\*ap01\_G291C\_T296C



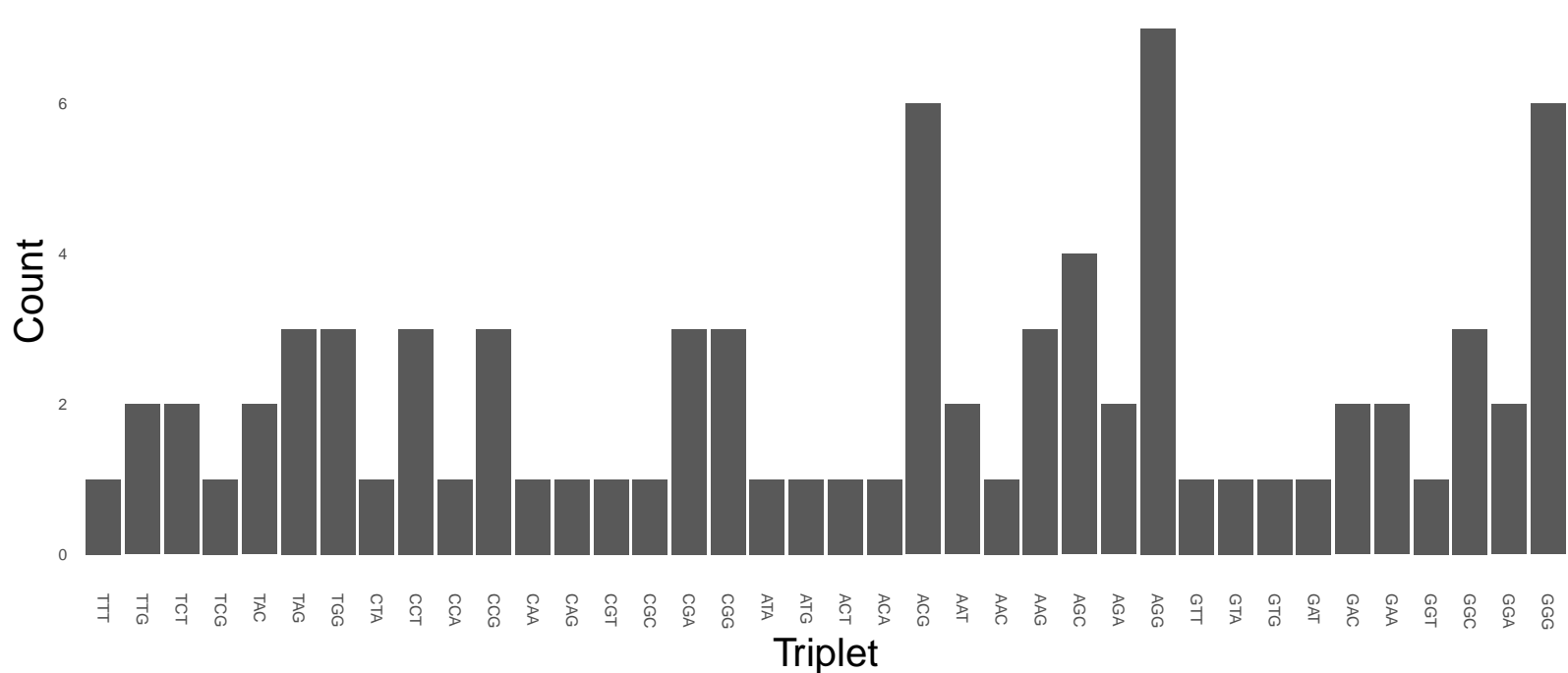
TRBV5-7\*ap01\_G290A- Final 3 nucleotides as a triplet



TRBV6-8\*ap01\_A293G- Final 3 nucleotides as a triplet

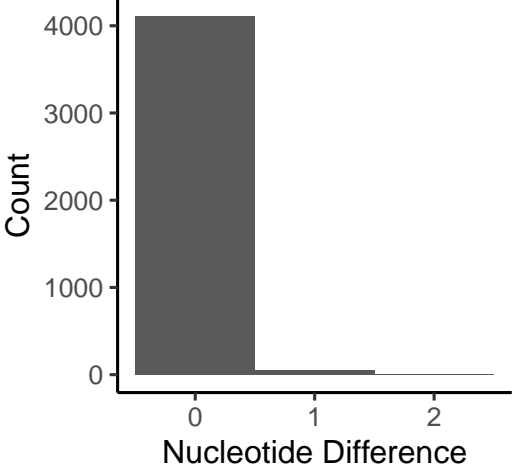


TRBV7-1\*ap01\_G291C\_T296C- Final 3 nucleotides as a triplet



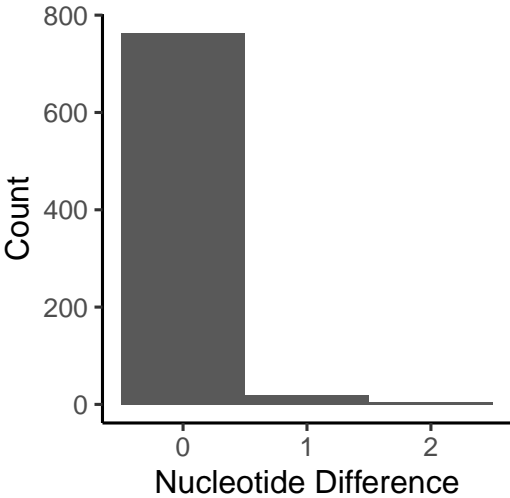
TRBV20-1\*ap01

4158 sequences assigned  
4107 (98.8%) exact matches, in which:  
4044 unique CDR3  
13 unique J



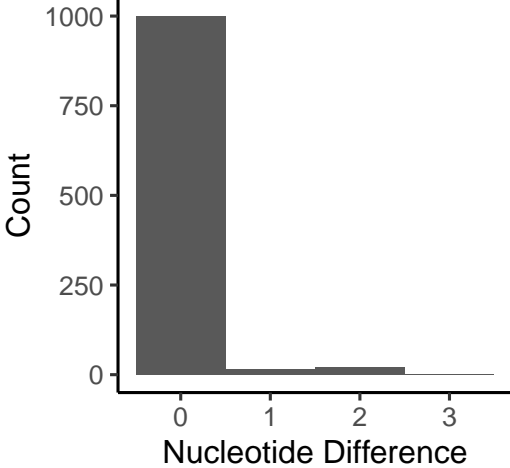
TRBV10-2\*ap01

789 sequences assigned  
764 (96.8%) exact matches, in which:  
742 unique CDR3  
13 unique J



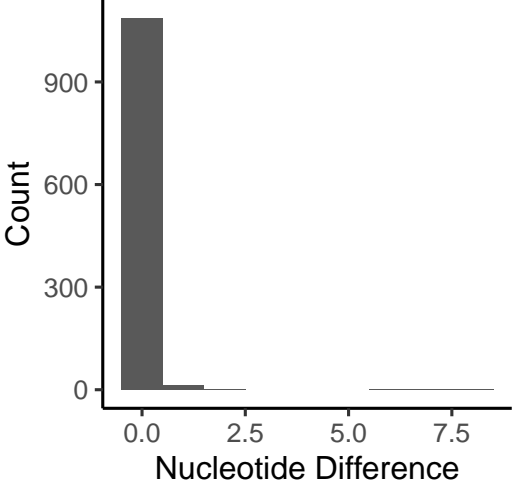
TRBV13\*ap01

1034 sequences assigned  
999 (96.6%) exact matches, in which:  
974 unique CDR3  
13 unique J



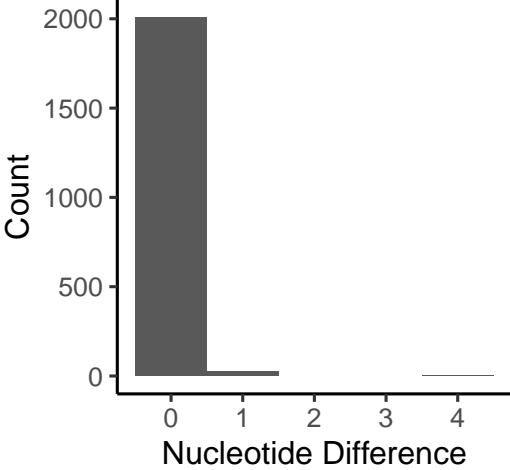
TRBV10-1\*ap01

1103 sequences assigned  
1087 (98.5%) exact matches, in which:  
1068 unique CDR3  
13 unique J



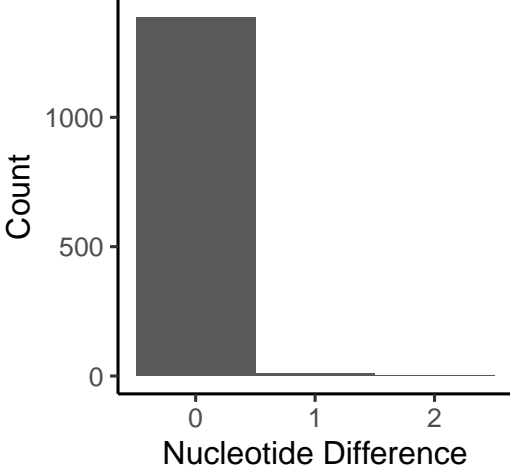
TRBV10-3\*ap01

2031 sequences assigned  
2006 (98.8%) exact matches, in which:  
1964 unique CDR3  
13 unique J



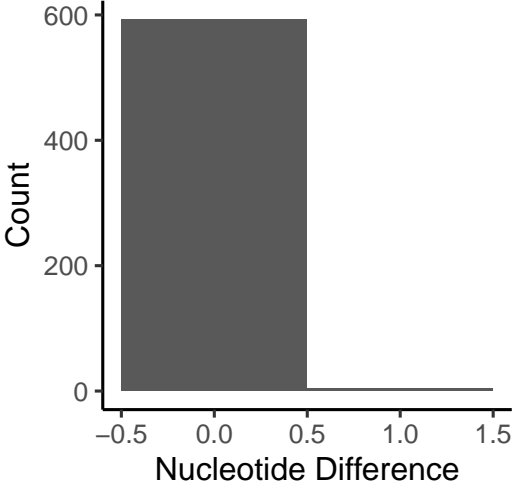
TRBV14\*ap01

1396 sequences assigned  
1385 (99.2%) exact matches, in which:  
1358 unique CDR3  
13 unique J



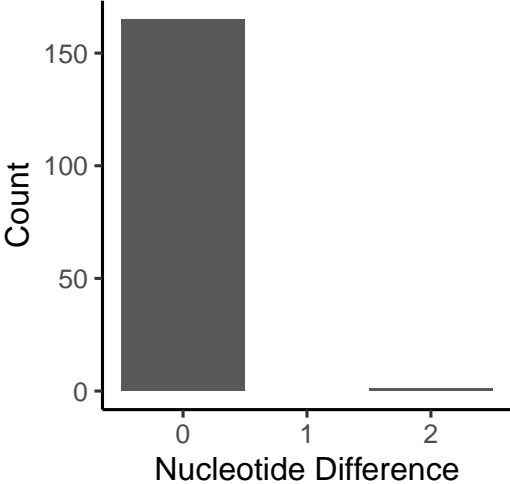
TRBV20-1\*ap02

597 sequences assigned  
593 (99.3%) exact matches, in which:  
583 unique CDR3  
13 unique J



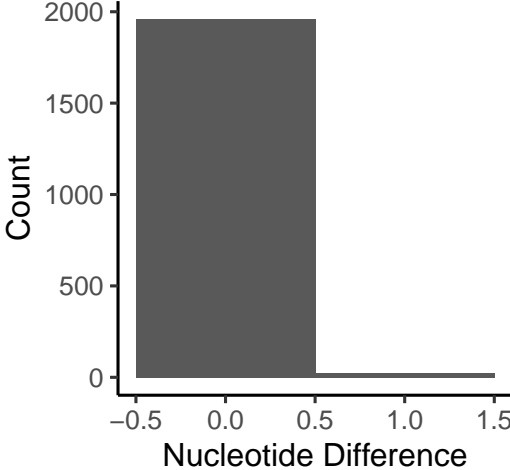
TRBV1\*ap01

166 sequences assigned  
165 (99.4%) exact matches, in which:  
164 unique CDR3  
13 unique J



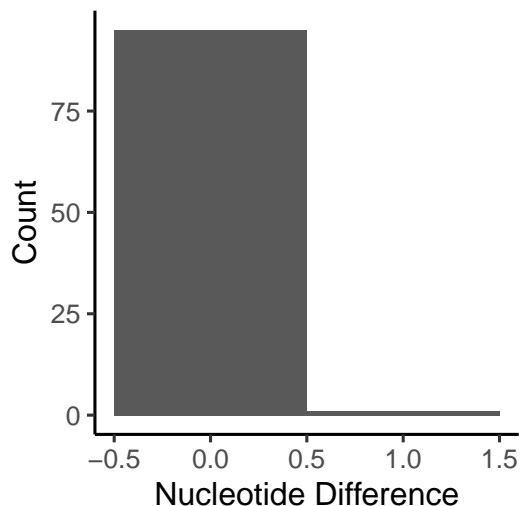
TRBV15\*ap02

1982 sequences assigned  
1960 (98.9%) exact matches, in which:  
1920 unique CDR3  
13 unique J



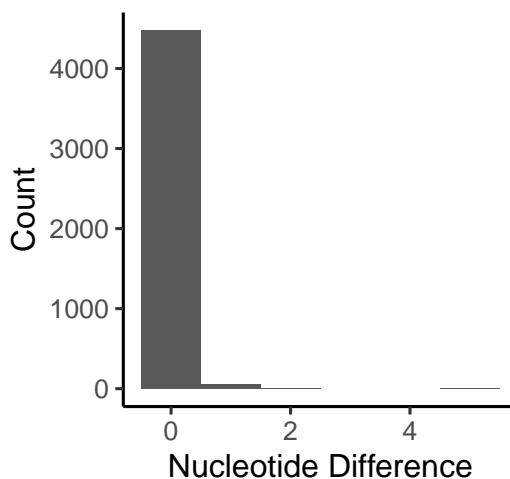
### TRBV16\*ap01

96 sequences assigned  
95 (99%) exact matches, in which:  
95 unique CDR3  
13 unique J



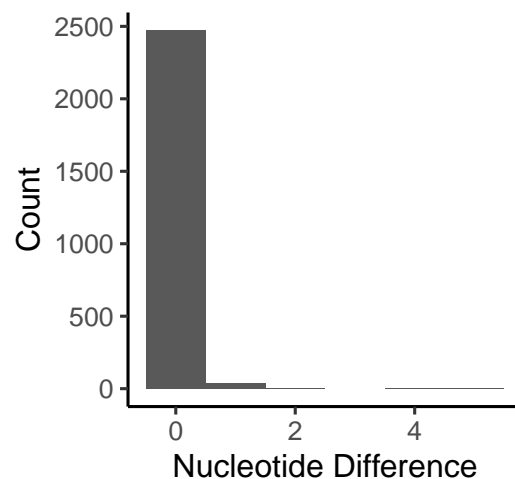
### TRBV2\*ap01

4540 sequences assigned  
4476 (98.6%) exact matches, in which:  
4395 unique CDR3  
13 unique J



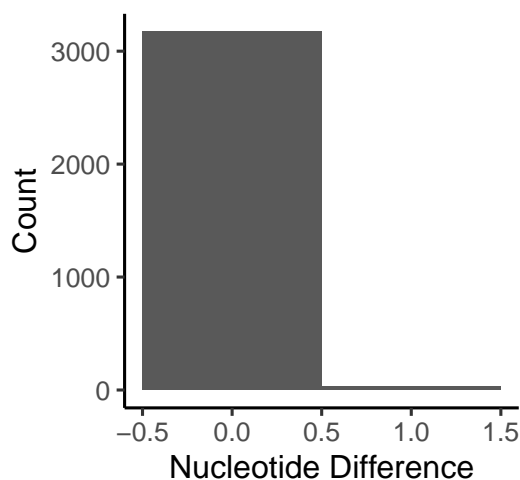
### TRBV30\*ap01

2514 sequences assigned  
2472 (98.3%) exact matches, in which:  
2443 unique CDR3  
13 unique J



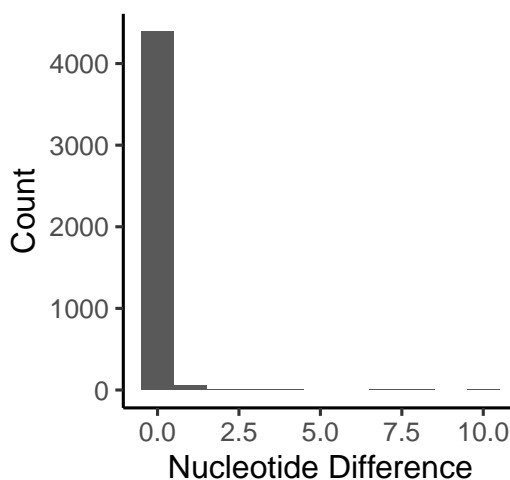
### TRBV18\*ap01

3202 sequences assigned  
3172 (99.1%) exact matches, in which:  
3145 unique CDR3  
13 unique J



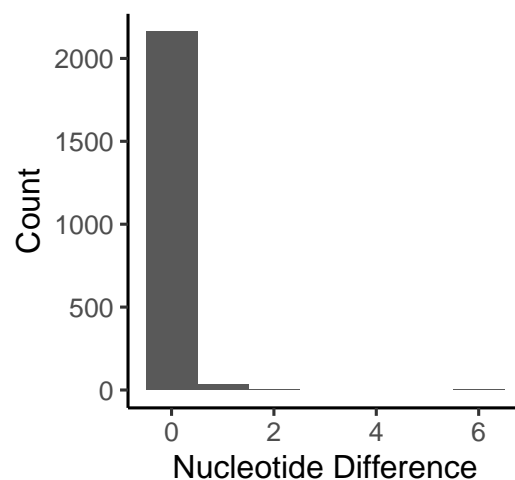
### TRBV27\*ap01

4457 sequences assigned  
4390 (98.5%) exact matches, in which:  
4291 unique CDR3  
13 unique J



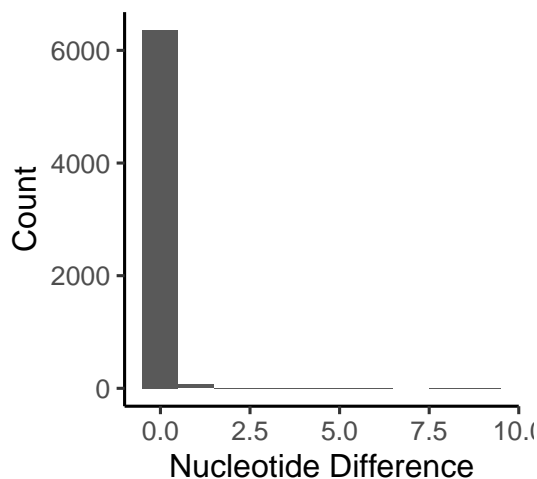
### TRBV30\*ap02

2199 sequences assigned  
2161 (98.3%) exact matches, in which:  
2141 unique CDR3  
13 unique J



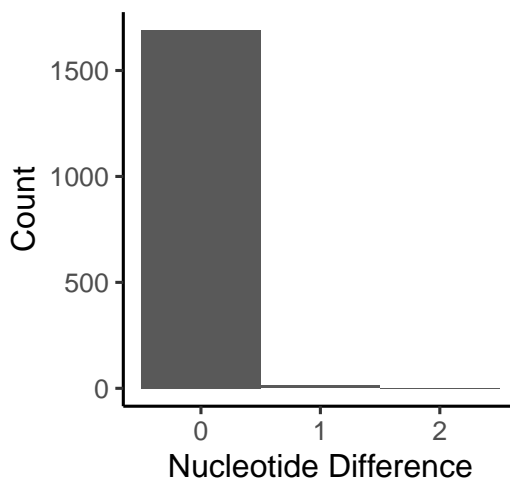
### TRBV19\*ap01

6440 sequences assigned  
6361 (98.8%) exact matches, in which:  
6298 unique CDR3  
13 unique J



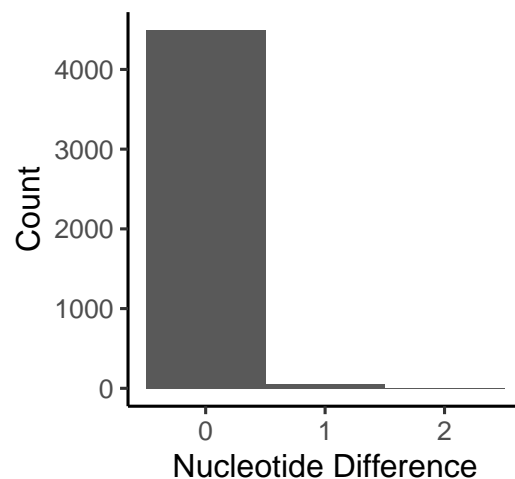
### TRBV28\*ap01

1706 sequences assigned  
1691 (99.1%) exact matches, in which:  
1677 unique CDR3  
13 unique J



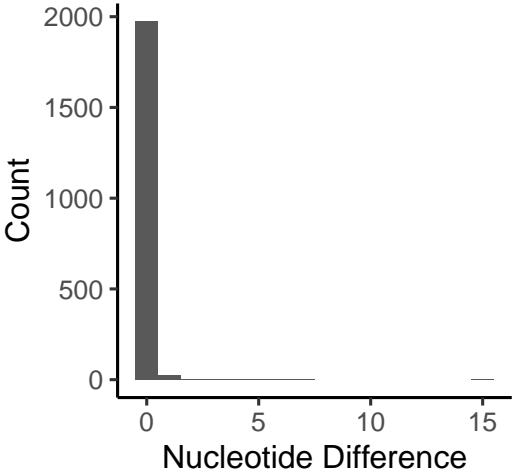
### TRBV9\*ap01

4550 sequences assigned  
4494 (98.8%) exact matches, in which:  
4423 unique CDR3  
13 unique J



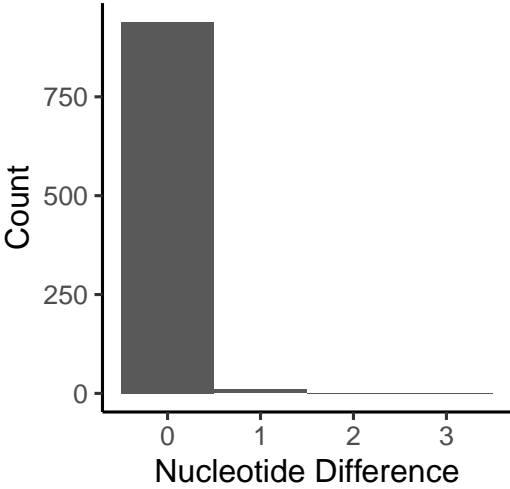
TRBV21-1\*ap01

2010 sequences assigned  
1974 (98.2%) exact matches, in which:  
1950 unique CDR3  
13 unique J



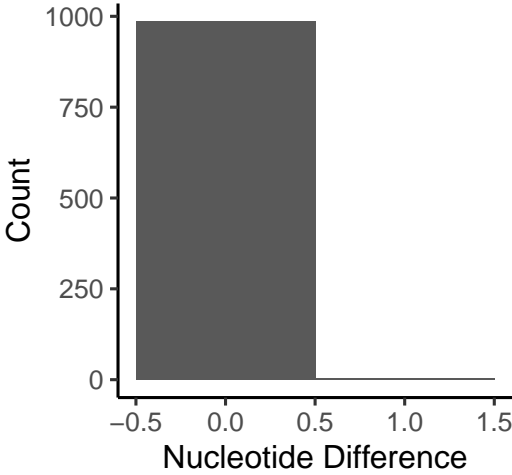
TRBV11-3\*ap01

952 sequences assigned  
940 (98.7%) exact matches, in which:  
930 unique CDR3  
13 unique J



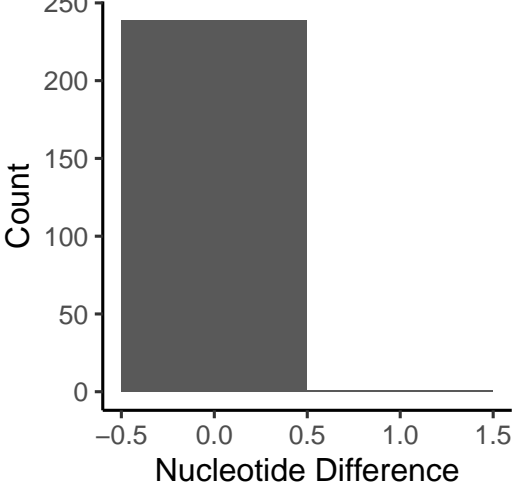
TRBV12-5\*ap01

991 sequences assigned  
986 (99.5%) exact matches, in which:  
967 unique CDR3  
13 unique J



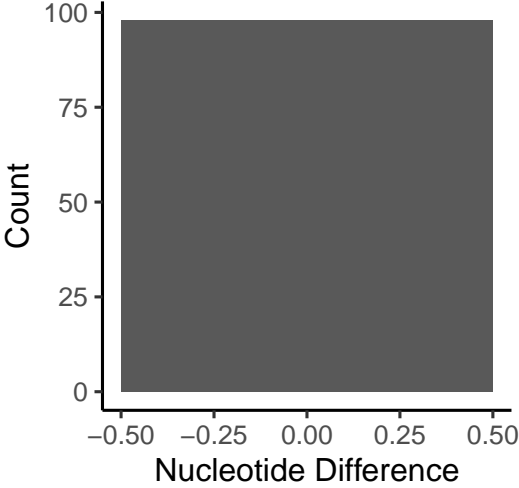
TRBV11-1\*ap01

240 sequences assigned  
239 (99.6%) exact matches, in which:  
236 unique CDR3  
13 unique J



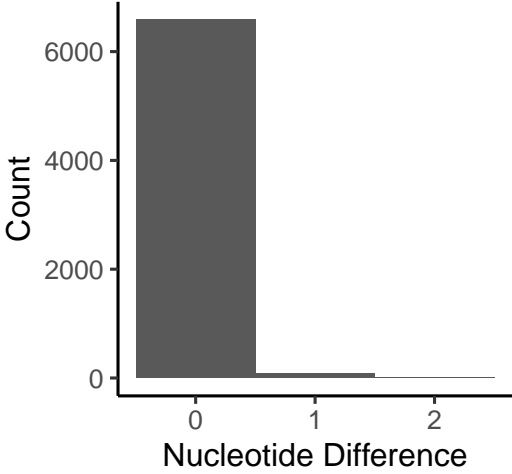
TRBV12-1\*ap01

98 sequences assigned  
98 (100%) exact matches, in which:  
95 unique CDR3  
13 unique J



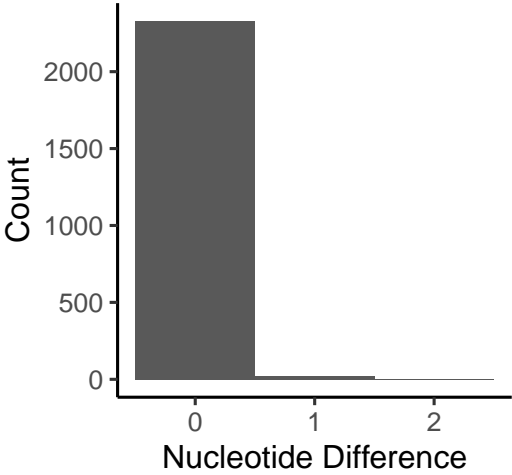
TRBV12-34\*ap01

6664 sequences assigned  
6586 (98.8%) exact matches, in which:  
6487 unique CDR3  
13 unique J



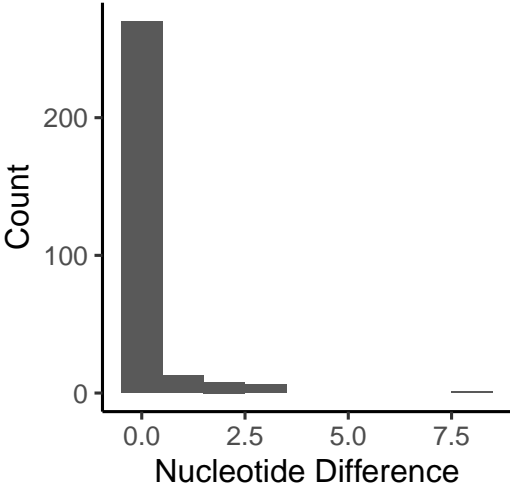
TRBV11-2\*ap01

2352 sequences assigned  
2329 (99%) exact matches, in which:  
2307 unique CDR3  
13 unique J



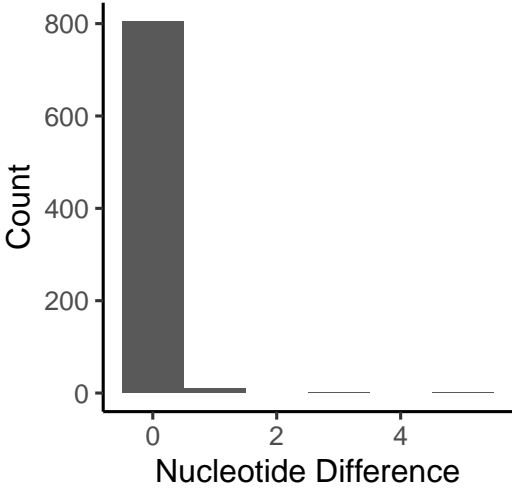
TRBV12-2\*ap01

298 sequences assigned  
270 (90.6%) exact matches, in which:  
259 unique CDR3  
13 unique J



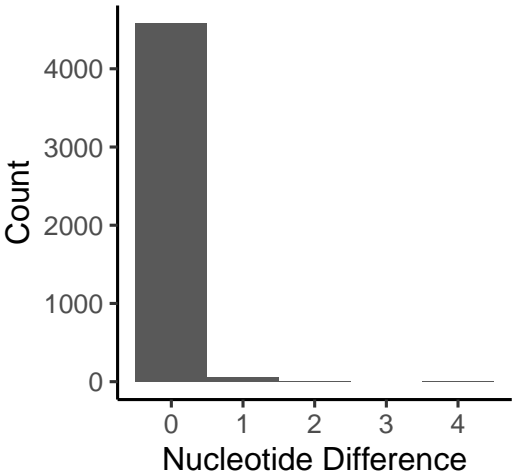
TRBV23-1\*ap01

817 sequences assigned  
805 (98.5%) exact matches, in which:  
787 unique CDR3  
13 unique J



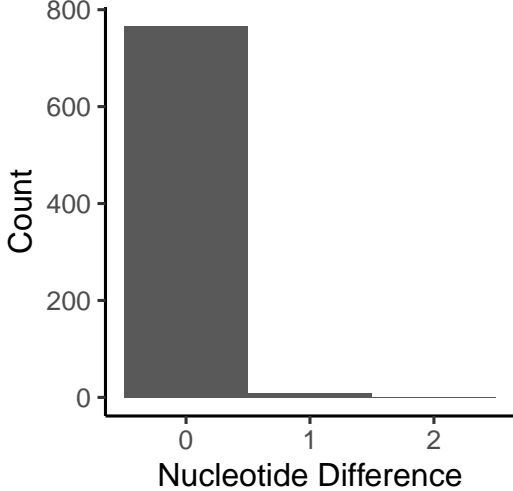
TRBV3-12\*ap01

4639 sequences assigned  
4580 (98.7%) exact matches, in which:  
4493 unique CDR3  
13 unique J



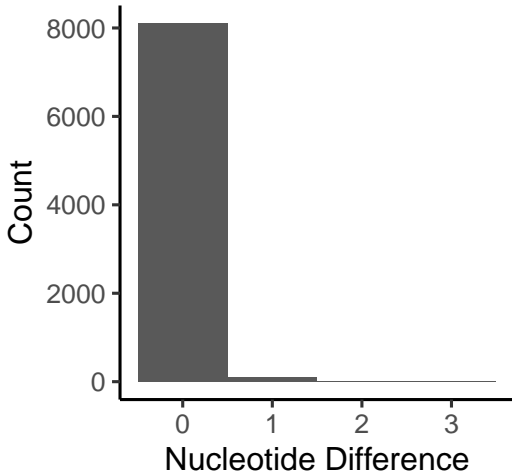
TRBV4-2\*ap01

777 sequences assigned  
767 (98.7%) exact matches, in which:  
750 unique CDR3  
13 unique J



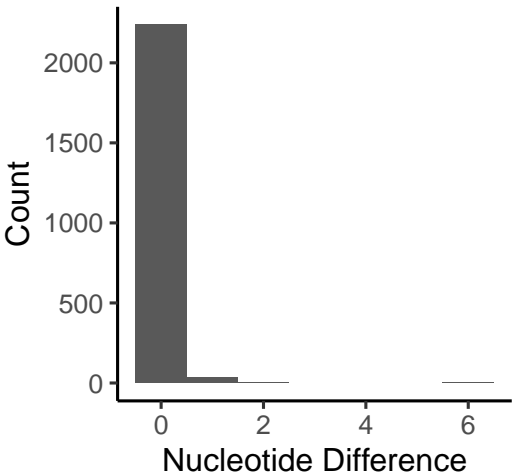
TRBV5-1\*ap01

8209 sequences assigned  
8103 (98.7%) exact matches, in which:  
7905 unique CDR3  
13 unique J



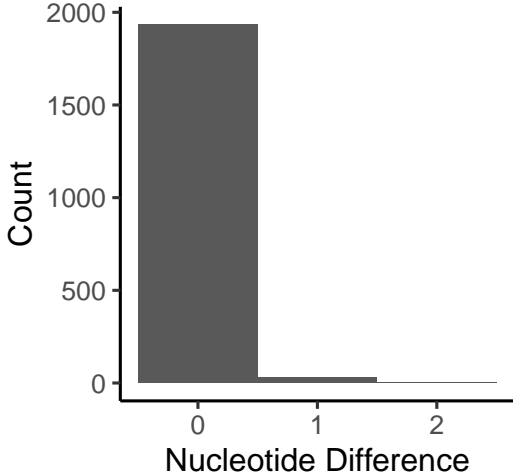
TRBV4-1\*ap01

2277 sequences assigned  
2238 (98.3%) exact matches, in which:  
2201 unique CDR3  
13 unique J



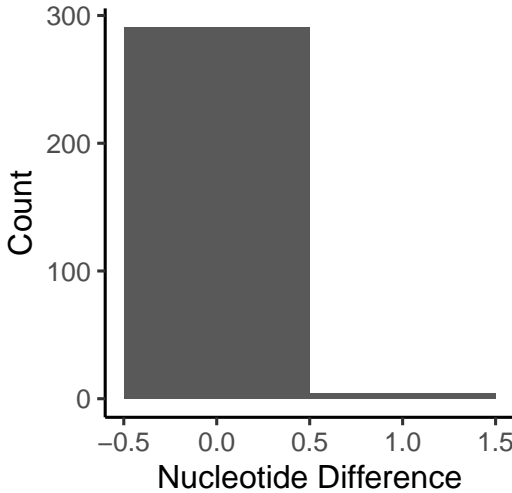
TRBV4-3\*ap01

1965 sequences assigned  
1933 (98.4%) exact matches, in which:  
1899 unique CDR3  
13 unique J



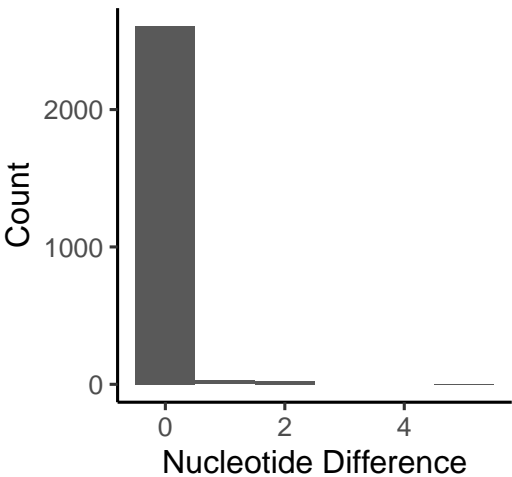
TRBV5-3\*ap01

295 sequences assigned  
291 (98.6%) exact matches, in which:  
282 unique CDR3  
13 unique J



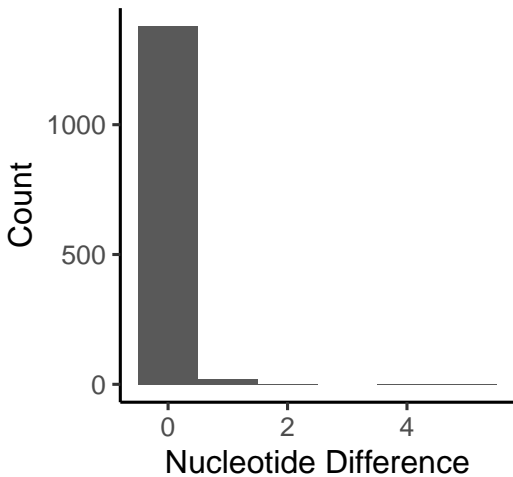
TRBV24-1\*ap01

2661 sequences assigned  
2608 (98%) exact matches, in which:  
2553 unique CDR3  
13 unique J



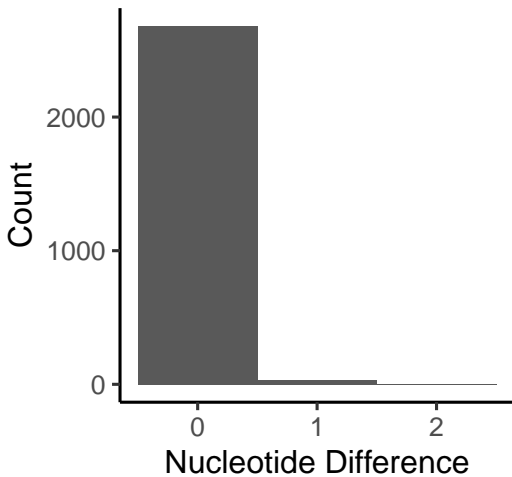
TRBV25-1\*ap01

1403 sequences assigned  
1380 (98.4%) exact matches, in which:  
1356 unique CDR3  
13 unique J



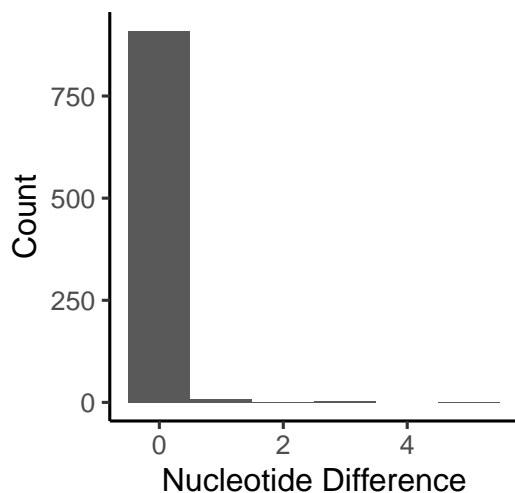
TRBV5-4\*ap01

2715 sequences assigned  
2681 (98.7%) exact matches, in which:  
2629 unique CDR3  
13 unique J



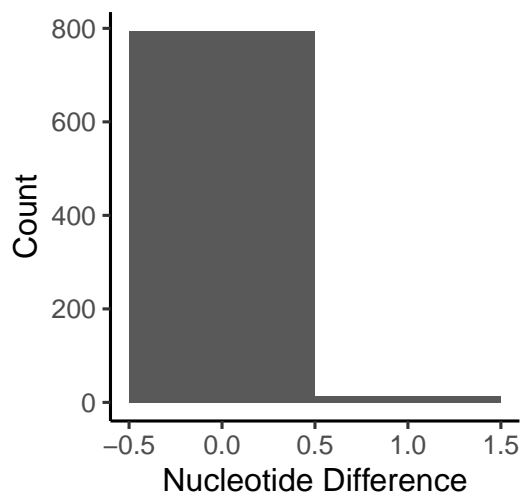
### TRBV5–5\*ap01

925 sequences assigned  
910 (98.4%) exact matches, in which:  
904 unique CDR3  
13 unique J



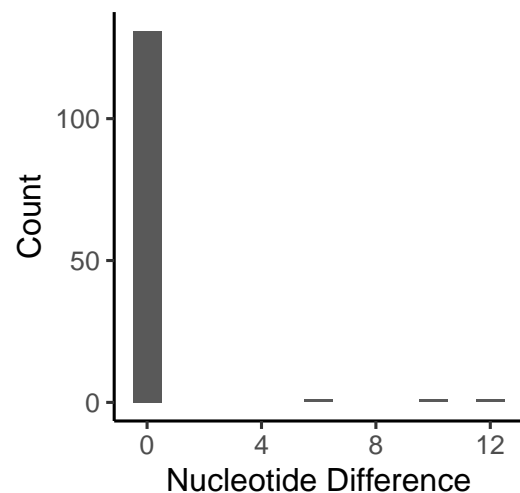
### TRBV5–8\*ap01

809 sequences assigned  
795 (98.3%) exact matches, in which:  
788 unique CDR3  
13 unique J



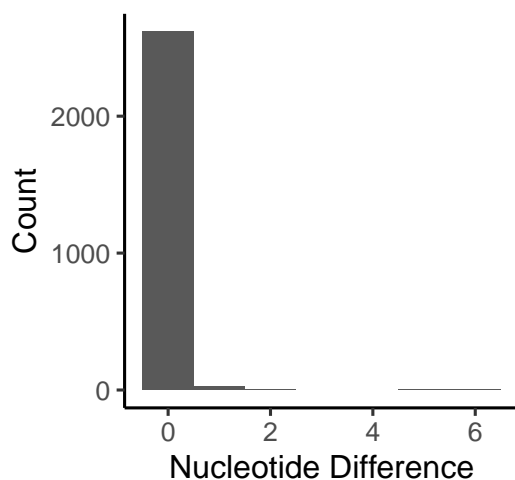
### TRBV6–7\*ap01

134 sequences assigned  
131 (97.8%) exact matches, in which:  
128 unique CDR3  
13 unique J



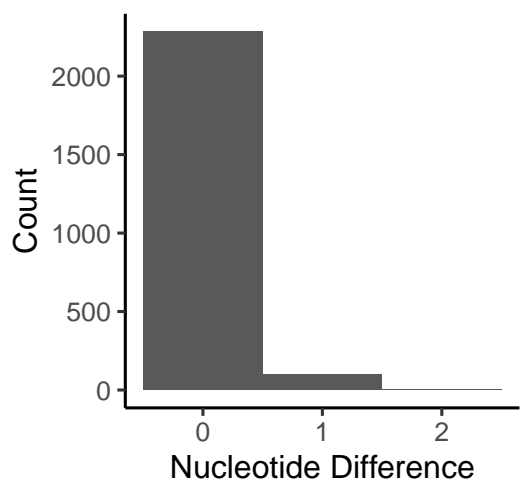
### TRBV5–6\*ap01

2646 sequences assigned  
2617 (98.9%) exact matches, in which:  
2542 unique CDR3  
13 unique J



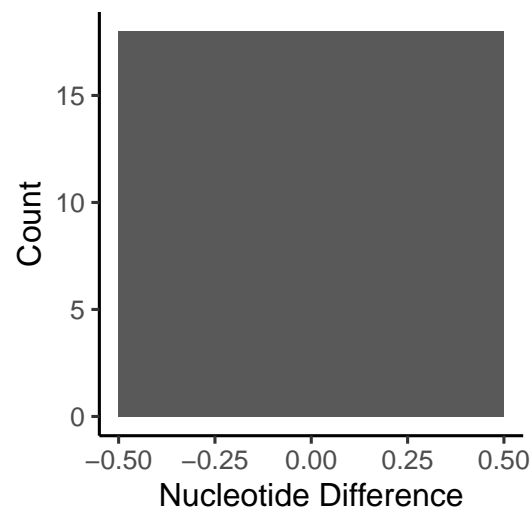
### TRBV6–1\*ap01

2383 sequences assigned  
2283 (95.8%) exact matches, in which:  
2242 unique CDR3  
13 unique J



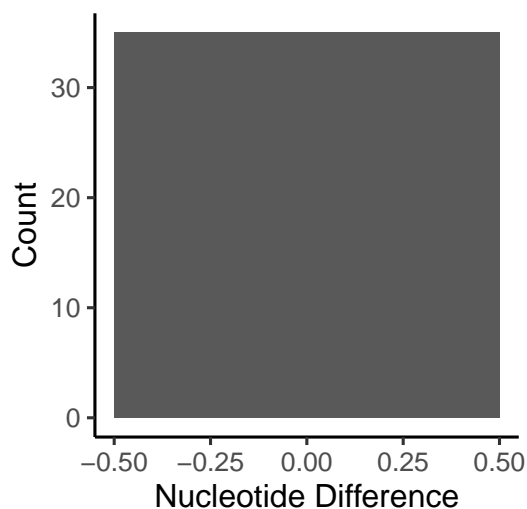
### TRBV6–8\*ap01\_A293G

18 sequences assigned  
18 (100%) exact matches, in which:  
18 unique CDR3  
8 unique J



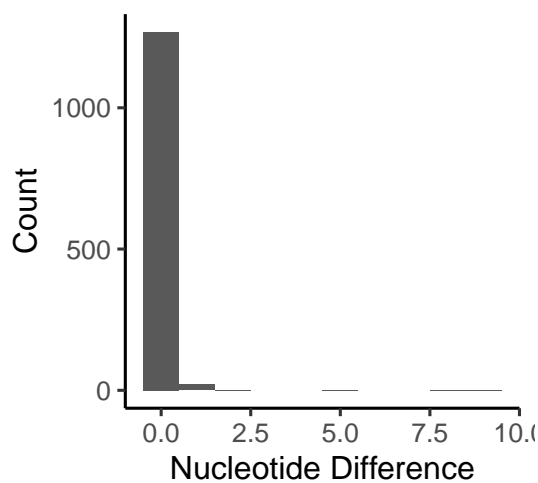
### TRBV5–7\*ap01\_G290A

35 sequences assigned  
35 (100%) exact matches, in which:  
35 unique CDR3  
11 unique J



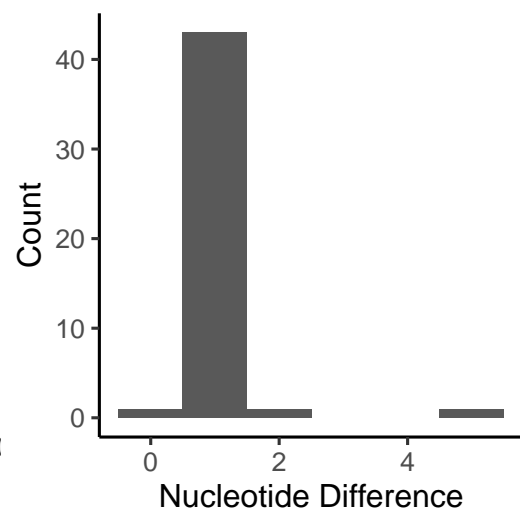
### TRBV6–4\*ap01

1292 sequences assigned  
1268 (98.1%) exact matches, in which:  
1261 unique CDR3  
13 unique J



### TRBV6–9\*ap01

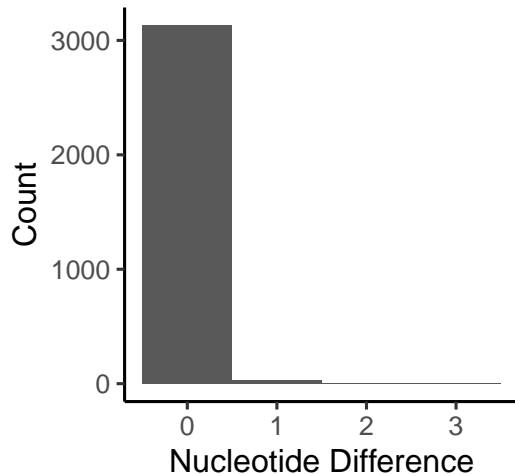
46 sequences assigned  
1 (2.2%) exact matches, in which:  
1 unique CDR3  
1 unique J





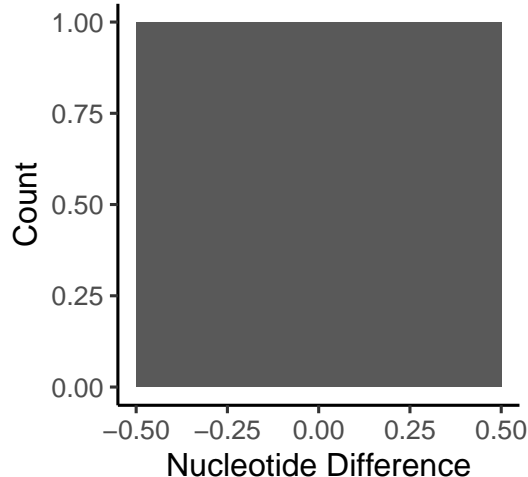
### TRBV6-23\*ap01

3168 sequences assigned  
3131 (98.8%) exact matches, in which:  
3063 unique CDR3  
13 unique J



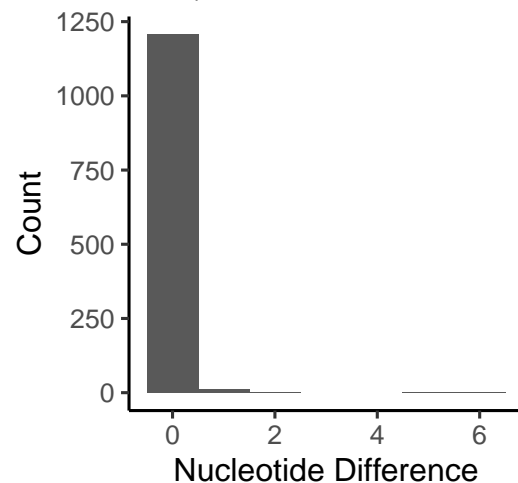
### TRBV7-1\*ap01

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



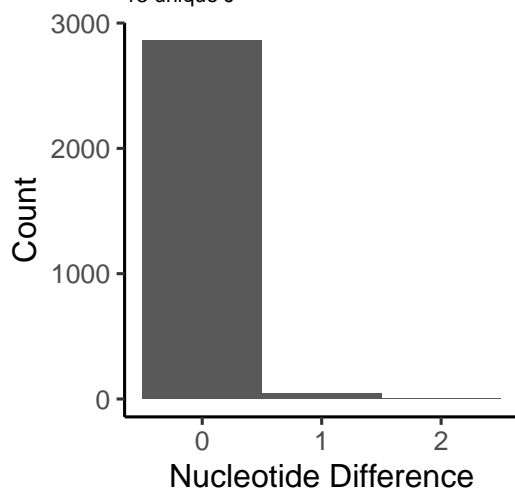
### TRBV7-3\*ap01

1222 sequences assigned  
1207 (98.8%) exact matches, in which:  
1191 unique CDR3  
13 unique J



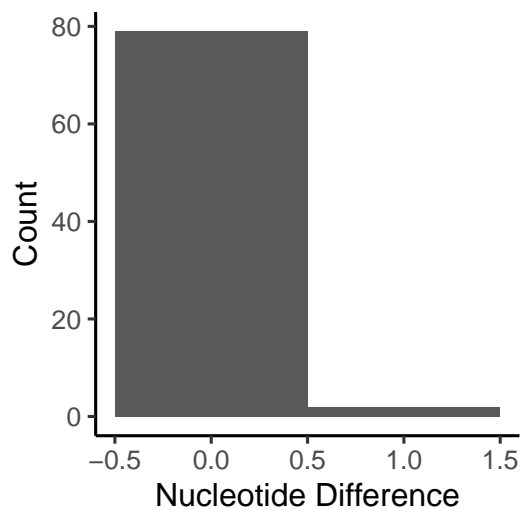
### TRBV6-56\*ap01

2905 sequences assigned  
2859 (98.4%) exact matches, in which:  
2795 unique CDR3  
13 unique J



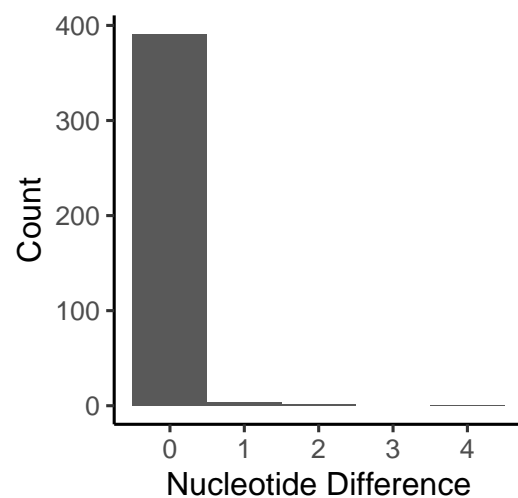
### TRBV7-1\*ap01\_G291C\_T

81 sequences assigned  
79 (97.5%) exact matches, in which:  
79 unique CDR3  
11 unique J



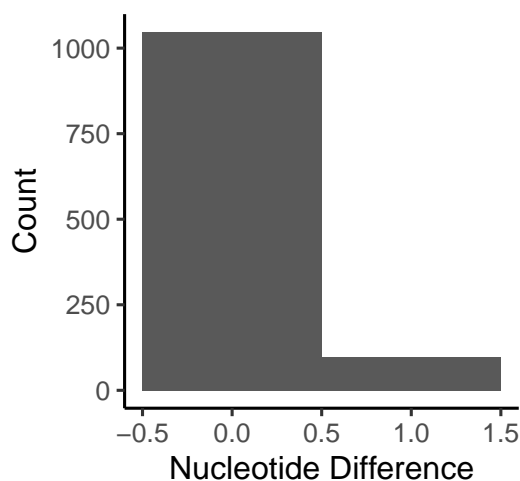
### TRBV7-3\*ap02

398 sequences assigned  
391 (98.2%) exact matches, in which:  
388 unique CDR3  
13 unique J



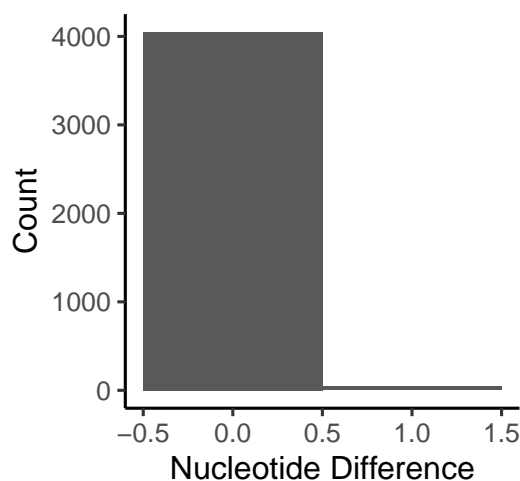
### TRBV6-56\*ap02

1145 sequences assigned  
1047 (91.4%) exact matches, in which:  
1028 unique CDR3  
13 unique J



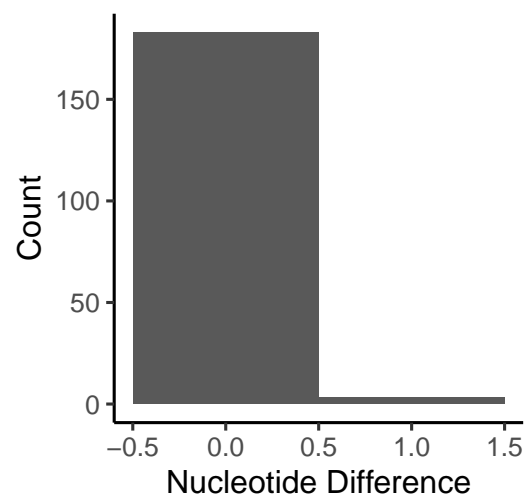
### TRBV7-2\*ap01

4093 sequences assigned  
4049 (98.9%) exact matches, in which:  
3986 unique CDR3  
13 unique J



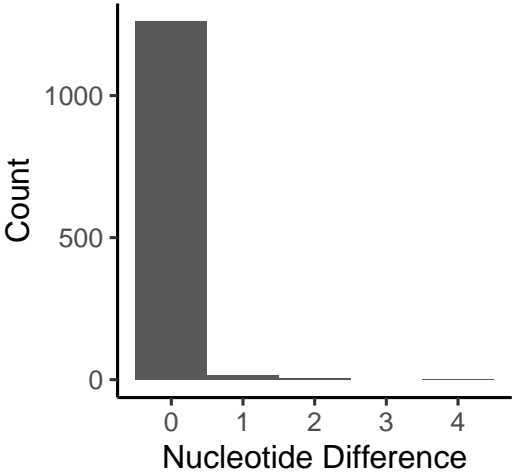
### TRBV7-4\*ap01

186 sequences assigned  
183 (98.4%) exact matches, in which:  
181 unique CDR3  
13 unique J



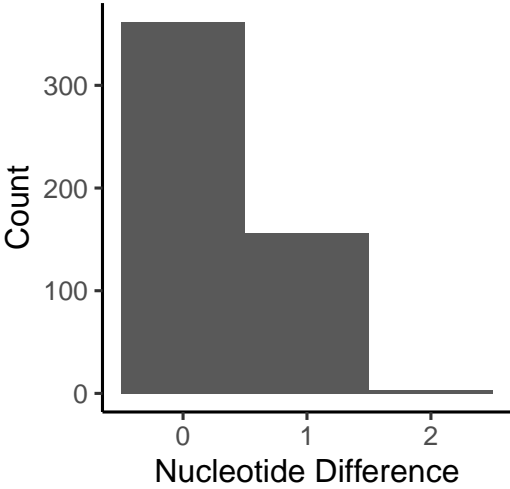
TRBV7-6\*ap01

1284 sequences assigned  
1261 (98.2%) exact matches, in which:  
1236 unique CDR3  
13 unique J



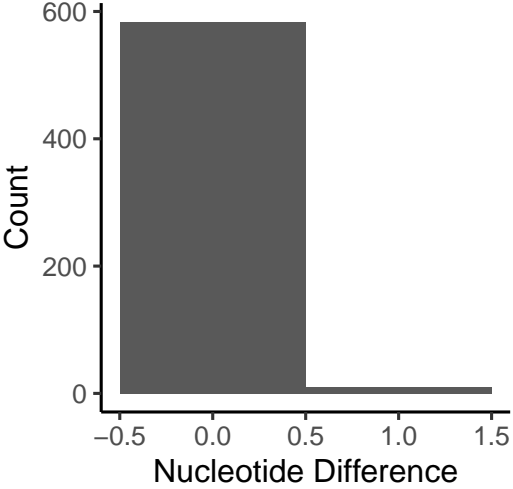
TRBV7-8\*ap03

521 sequences assigned  
362 (69.5%) exact matches, in which:  
352 unique CDR3  
13 unique J



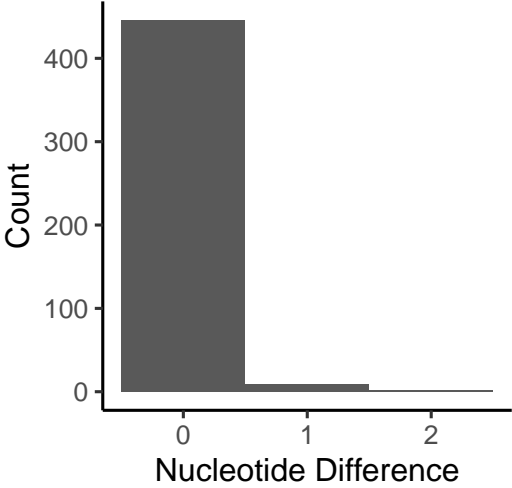
TRBV29-1\*ap02

594 sequences assigned  
584 (98.3%) exact matches, in which:  
570 unique CDR3  
13 unique J



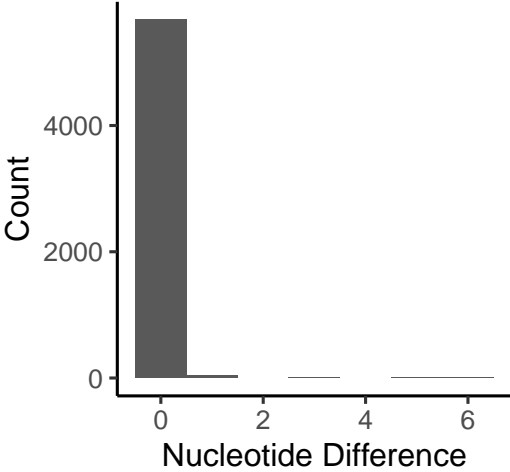
TRBV7-7\*ap01

457 sequences assigned  
446 (97.6%) exact matches, in which:  
438 unique CDR3  
13 unique J



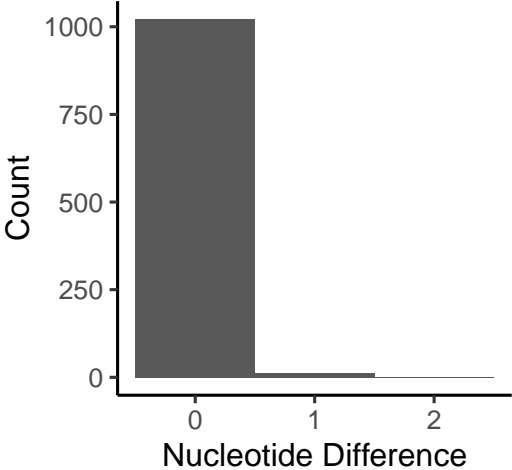
TRBV7-9\*ap01

5723 sequences assigned  
5676 (99.2%) exact matches, in which:  
5619 unique CDR3  
13 unique J



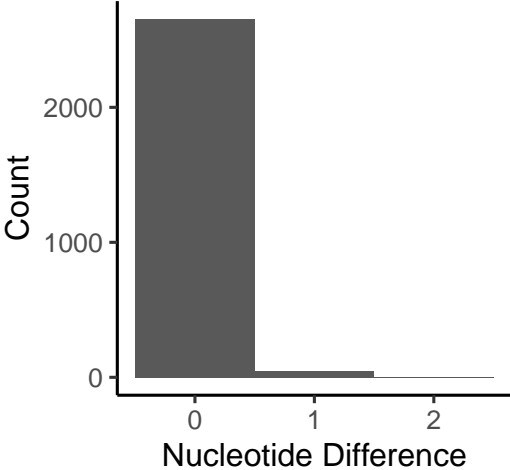
TRBV7-8\*ap01

1036 sequences assigned  
1022 (98.6%) exact matches, in which:  
997 unique CDR3  
13 unique J

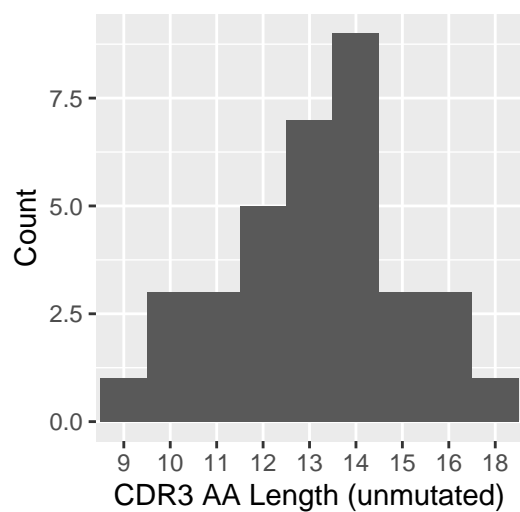


TRBV29-1\*ap01

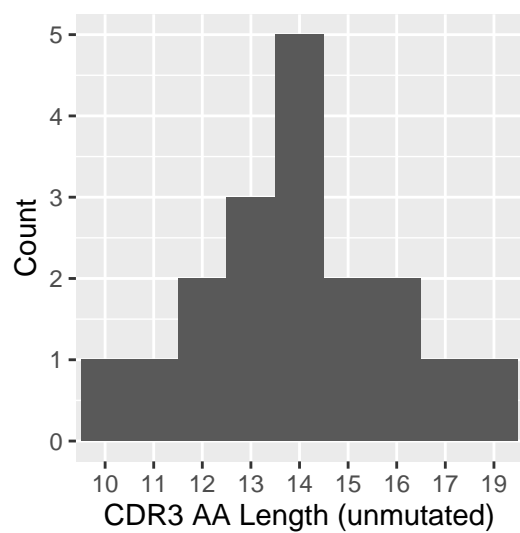
2702 sequences assigned  
2654 (98.2%) exact matches, in which:  
2604 unique CDR3  
13 unique J



TRBV5-7\*ap01\_G290A



TRBV6-8\*ap01\_A293G



TRBV7-1\*ap01\_G291C\_T296C

