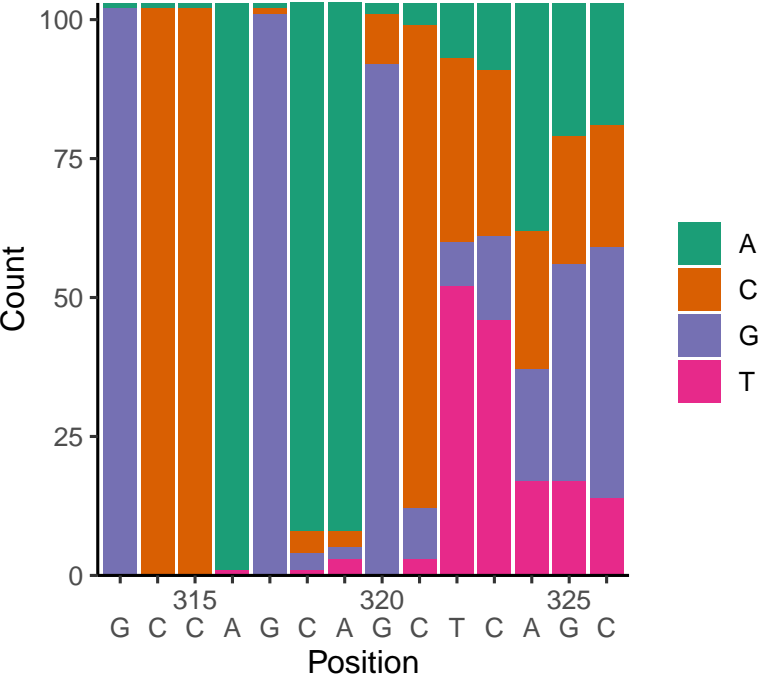


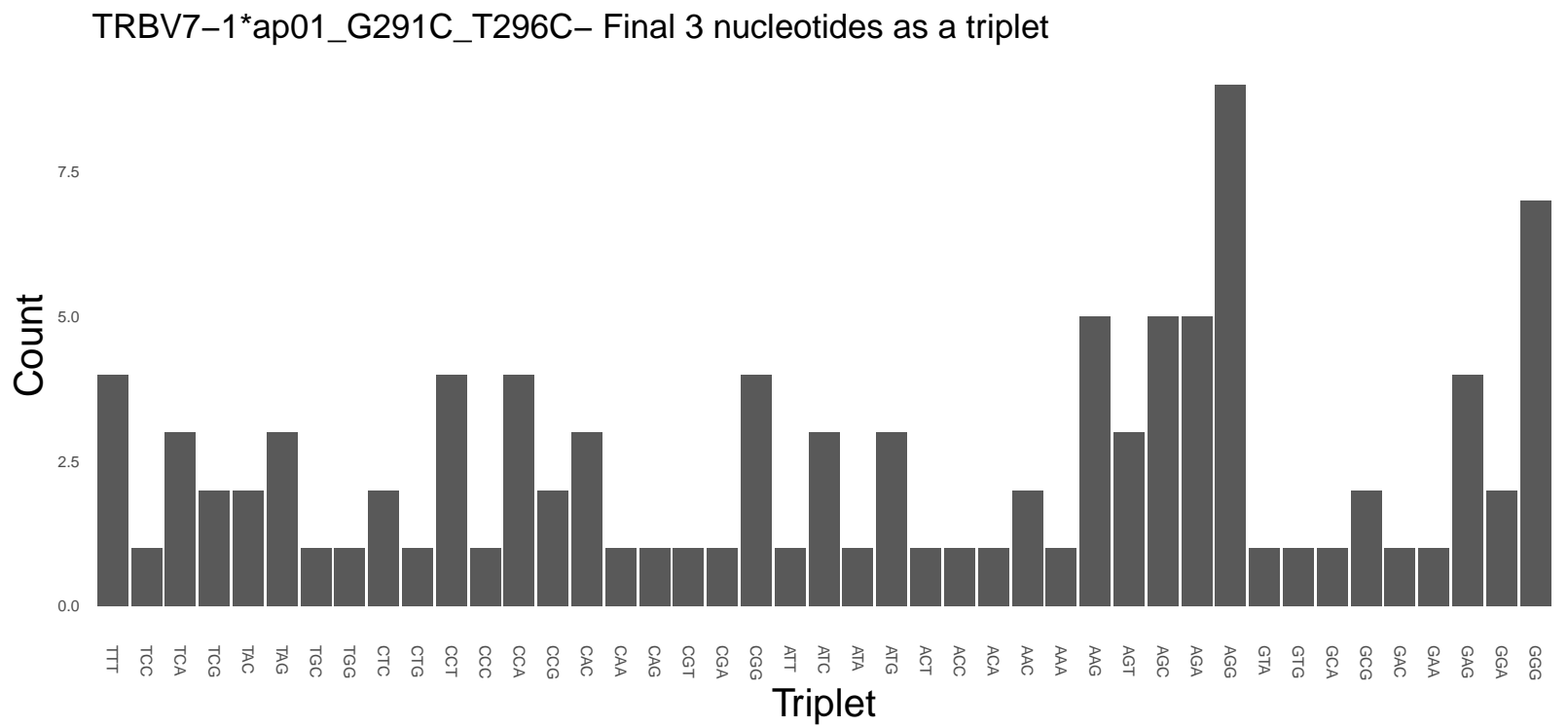
Gene TRBV7-1\*ap01\_G291C\_T296C



Gene TRBV7-1\*ap01\_G291C\_T296C

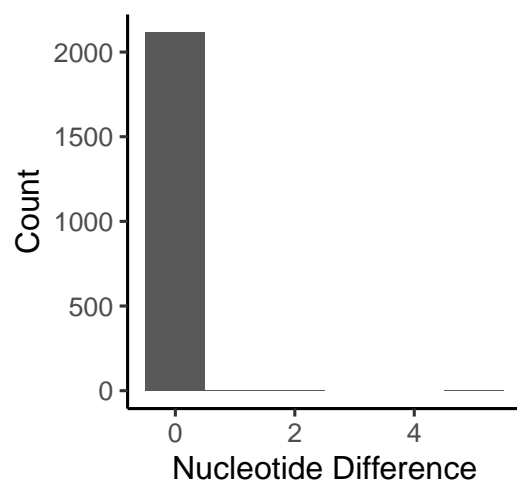


TRBV7-1\*ap01\_G291C\_T296C- Final 3 nucleotides as a triplet



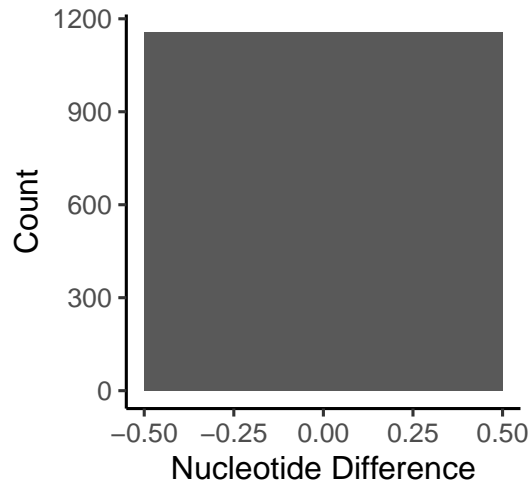
### TRBV10-1\*ap01

2120 sequences assigned  
2116 (99.8%) exact matches, in which:  
2115 unique CDR3  
13 unique J



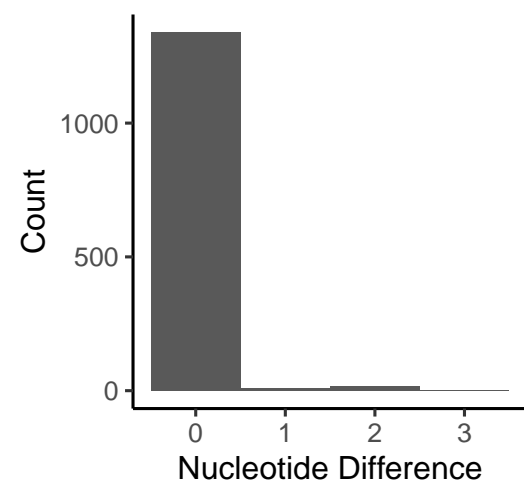
### TRBV10-2\*ap01

1156 sequences assigned  
1156 (100%) exact matches, in which:  
1155 unique CDR3  
13 unique J



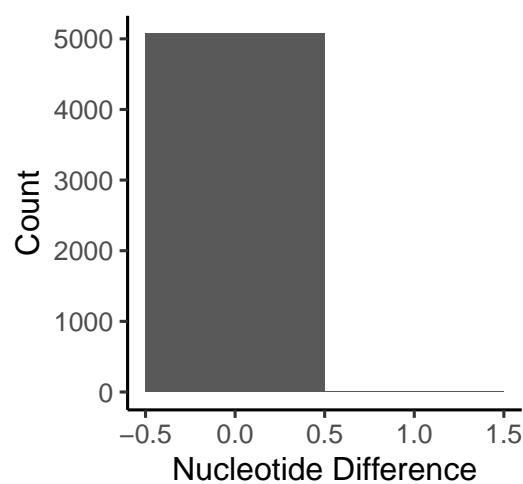
### TRBV13\*ap01

1368 sequences assigned  
1339 (97.9%) exact matches, in which:  
1337 unique CDR3  
13 unique J



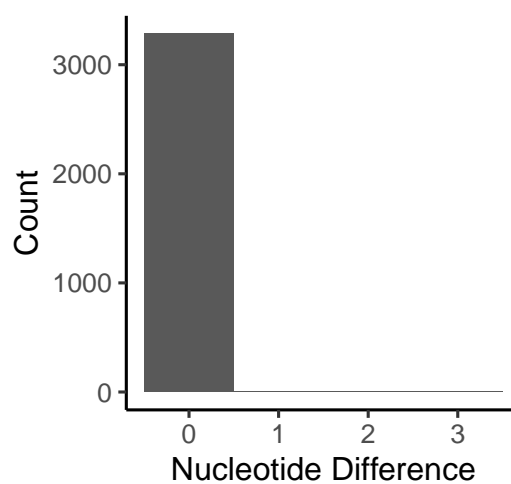
### TRBV20-1\*ap01

5085 sequences assigned  
5072 (99.7%) exact matches, in which:  
5064 unique CDR3  
13 unique J



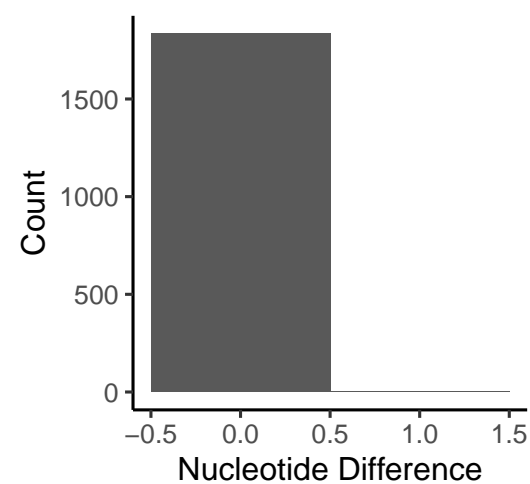
### TRBV10-3\*ap01

3289 sequences assigned  
3284 (99.8%) exact matches, in which:  
3282 unique CDR3  
13 unique J



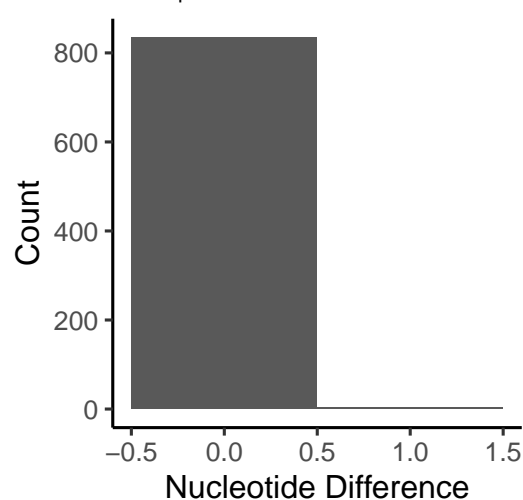
### TRBV14\*ap01

1835 sequences assigned  
1834 (99.9%) exact matches, in which:  
1834 unique CDR3  
13 unique J



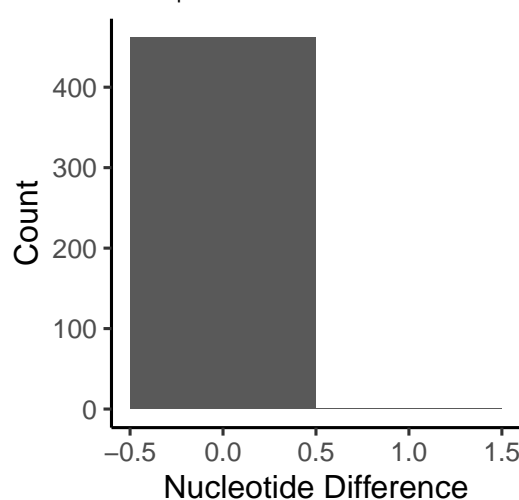
### TRBV20-1\*ap02

838 sequences assigned  
835 (99.6%) exact matches, in which:  
833 unique CDR3  
13 unique J



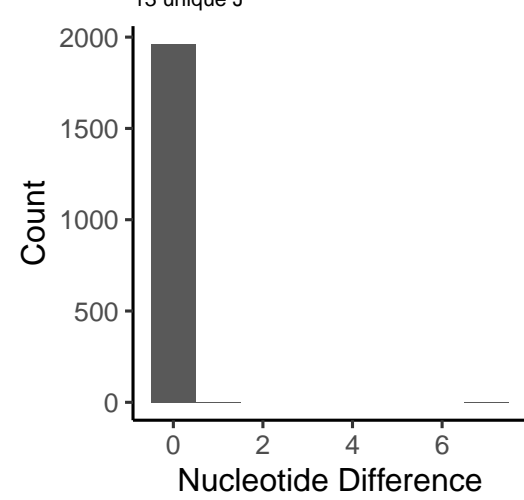
### TRBV1\*ap01

463 sequences assigned  
462 (99.8%) exact matches, in which:  
461 unique CDR3  
13 unique J



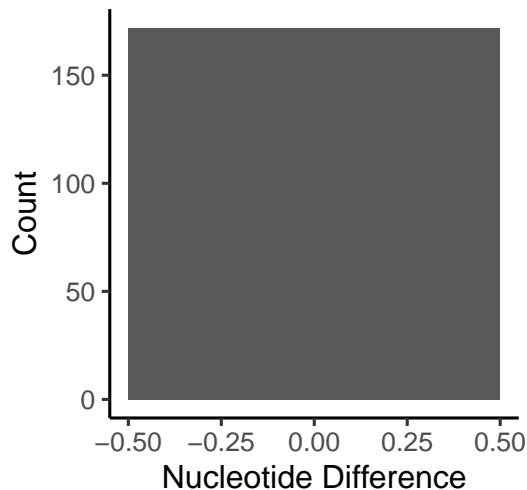
### TRBV15\*ap02

1965 sequences assigned  
1962 (99.8%) exact matches, in which:  
1959 unique CDR3  
13 unique J



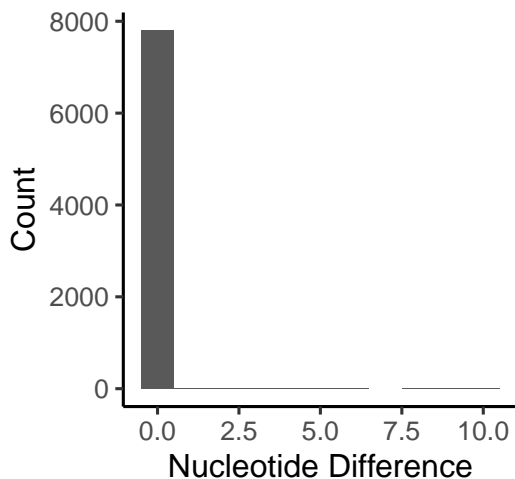
### TRBV16\*ap01

172 sequences assigned  
172 (100%) exact matches, in which:  
172 unique CDR3  
13 unique J



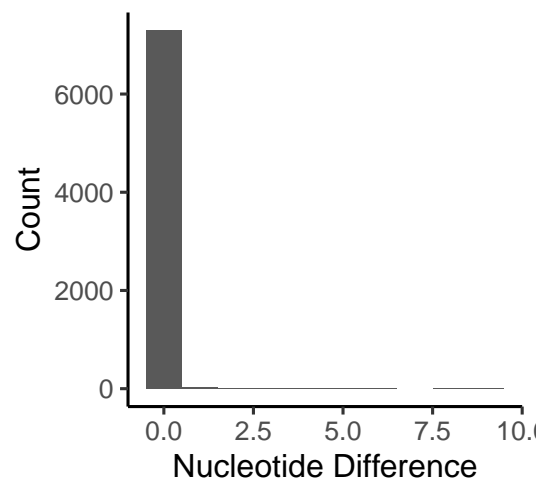
### TRBV19\*ap01

7834 sequences assigned  
7801 (99.6%) exact matches, in which:  
7799 unique CDR3  
13 unique J



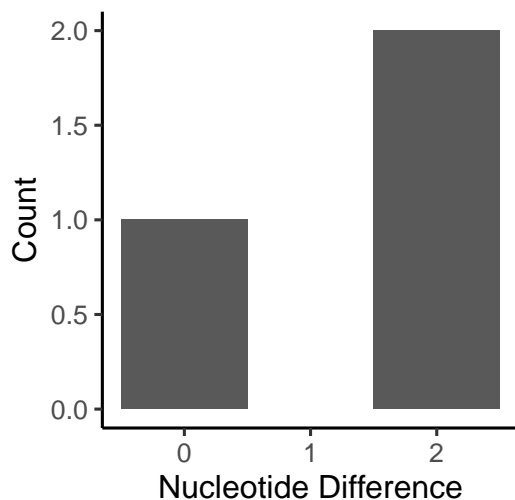
### TRBV27\*ap01

7342 sequences assigned  
7296 (99.4%) exact matches, in which:  
7266 unique CDR3  
13 unique J



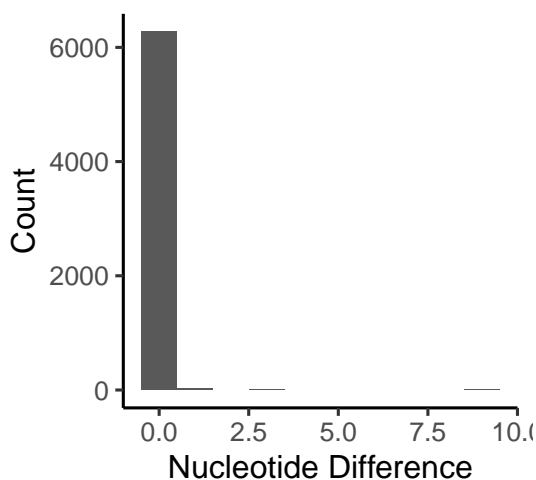
### TRBV17\*ap01

3 sequences assigned  
1 (33.3%) exact matches, in which:  
1 unique CDR3  
1 unique J



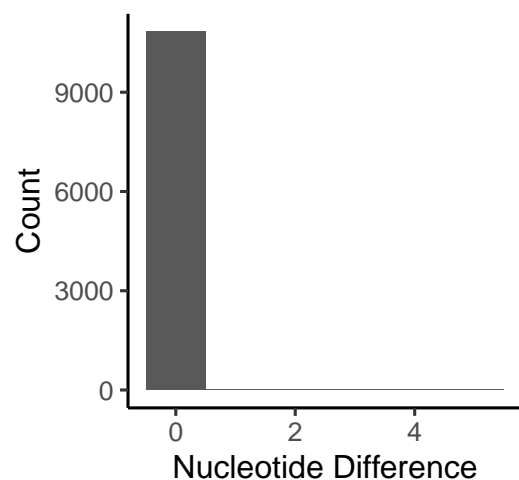
### TRBV2\*ap01

6299 sequences assigned  
6274 (99.6%) exact matches, in which:  
6260 unique CDR3  
13 unique J



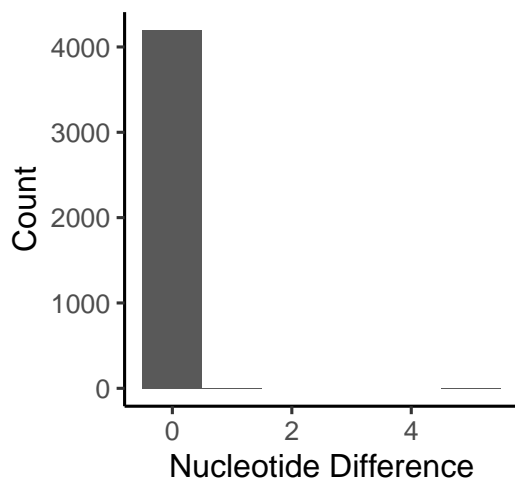
### TRBV28\*ap01

10846 sequences assigned  
10829 (99.8%) exact matches, in which:  
10825 unique CDR3  
13 unique J



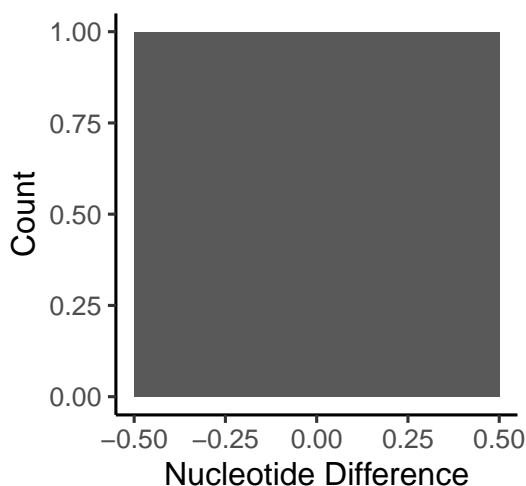
### TRBV18\*ap01

4202 sequences assigned  
4198 (99.9%) exact matches, in which:  
4195 unique CDR3  
13 unique J



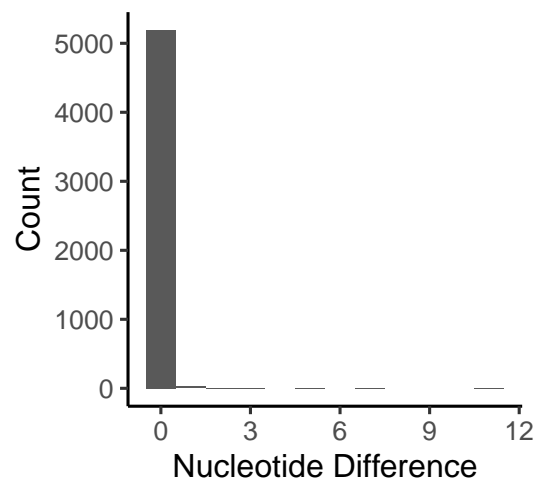
### TRBV26\*ap01

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



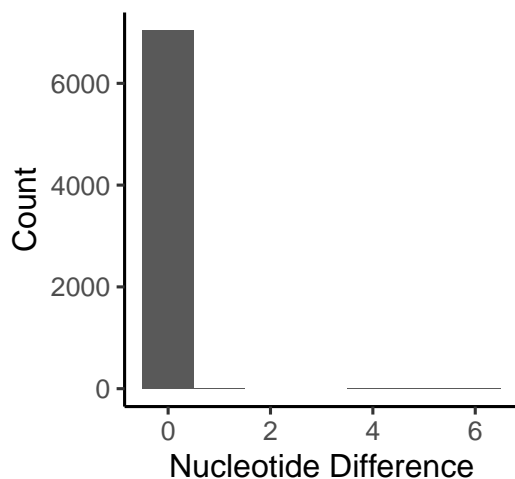
### TRBV30\*ap01

5226 sequences assigned  
5192 (99.3%) exact matches, in which:  
5178 unique CDR3  
13 unique J



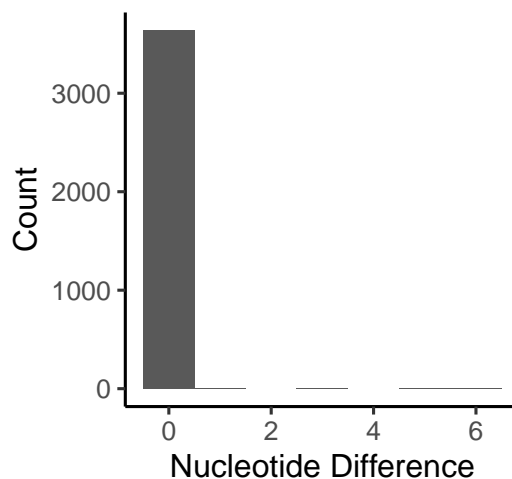
### TRBV9\*ap01

7053 sequences assigned  
7040 (99.8%) exact matches, in which:  
7027 unique CDR3  
13 unique J



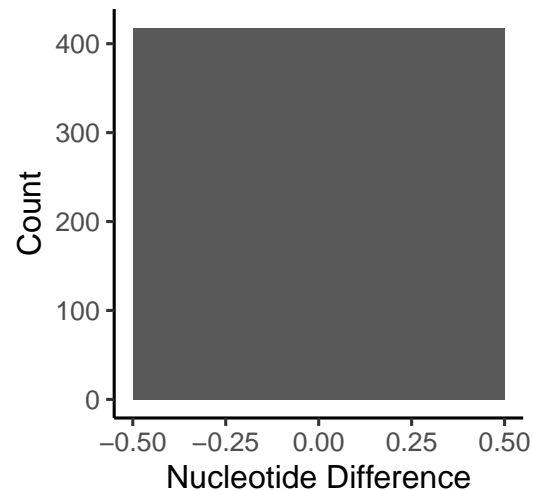
### TRBV11-2\*ap01

3643 sequences assigned  
3638 (99.9%) exact matches, in which:  
3636 unique CDR3  
13 unique J



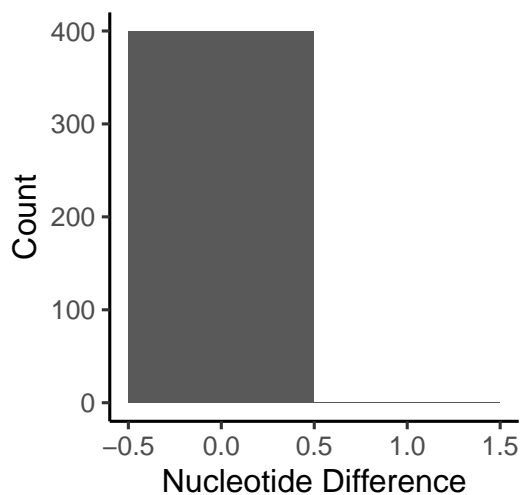
### TRBV12-2\*ap01

418 sequences assigned  
418 (100%) exact matches, in which:  
417 unique CDR3  
13 unique J



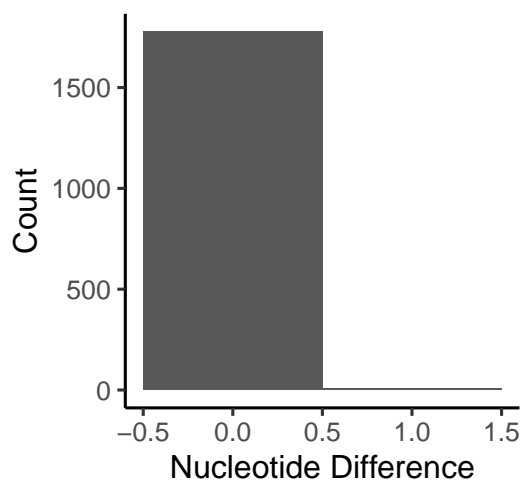
### TRBV11-1\*ap01

401 sequences assigned  
400 (99.8%) exact matches, in which:  
400 unique CDR3  
13 unique J



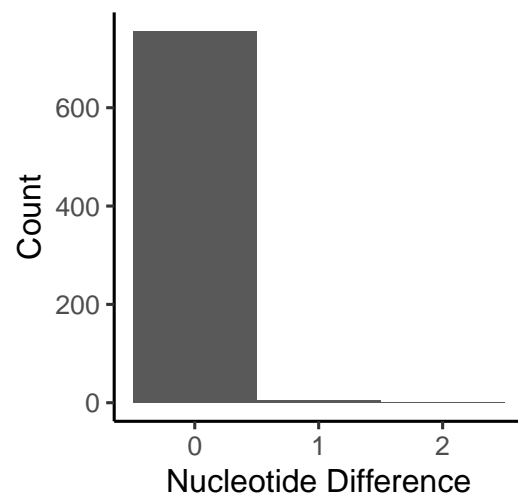
### TRBV11-3\*ap01

1782 sequences assigned  
1777 (99.7%) exact matches, in which:  
1777 unique CDR3  
13 unique J



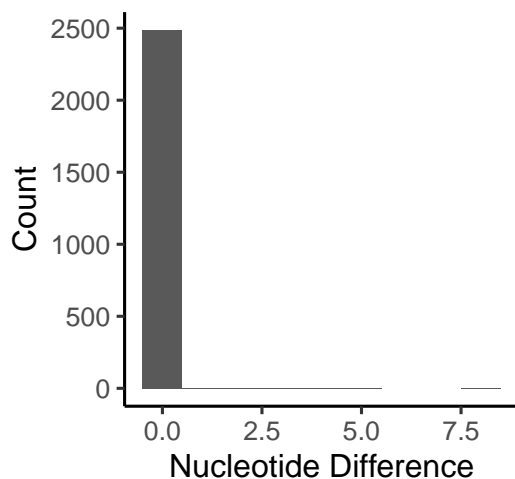
### TRBV12-5\*ap01

762 sequences assigned  
756 (99.2%) exact matches, in which:  
756 unique CDR3  
13 unique J



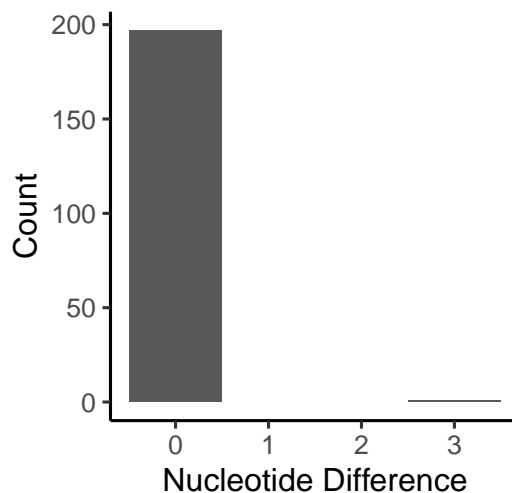
### TRBV21-1\*ap01

2500 sequences assigned  
2487 (99.5%) exact matches, in which:  
2487 unique CDR3  
13 unique J



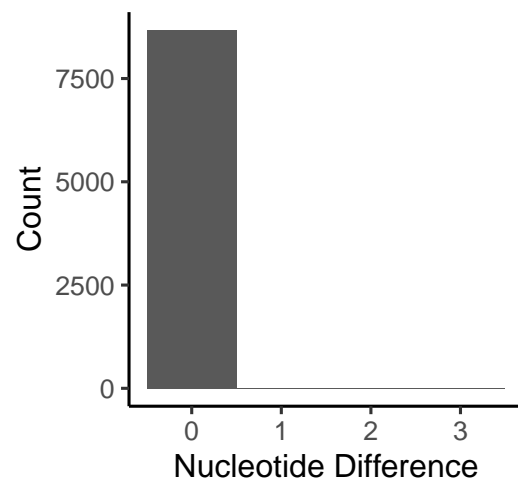
### TRBV12-1\*ap01

198 sequences assigned  
197 (99.5%) exact matches, in which:  
197 unique CDR3  
13 unique J



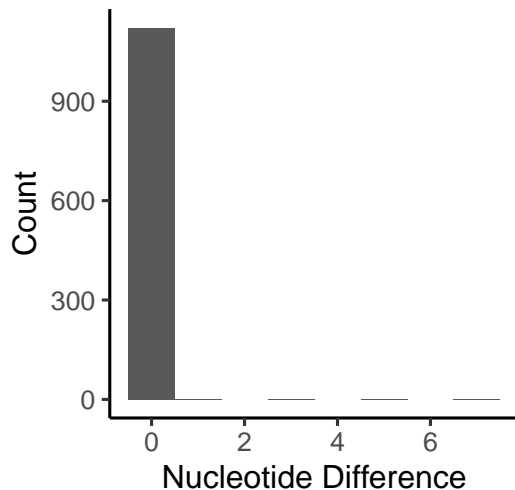
### TRBV12-34\*ap01

8690 sequences assigned  
8674 (99.8%) exact matches, in which:  
8670 unique CDR3  
13 unique J



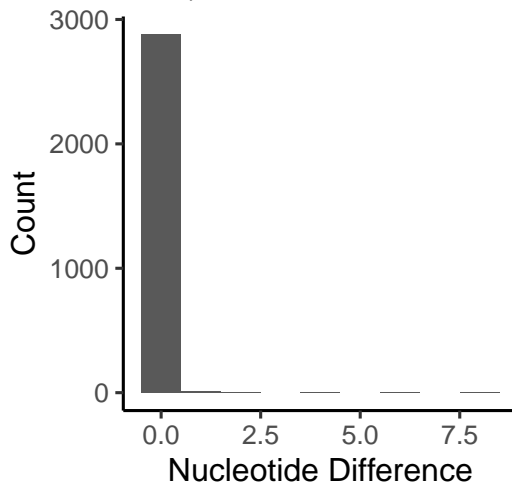
### TRBV23–1\*ap01

1128 sequences assigned  
1122 (99.5%) exact matches, in which:  
1122 unique CDR3  
13 unique J



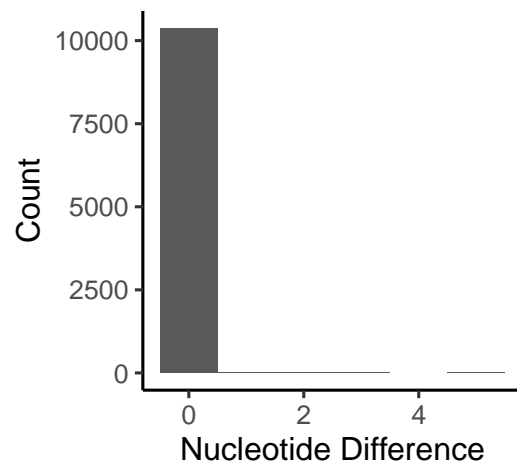
### TRBV24–1\*ap01

2899 sequences assigned  
2880 (99.3%) exact matches, in which:  
2876 unique CDR3  
13 unique J



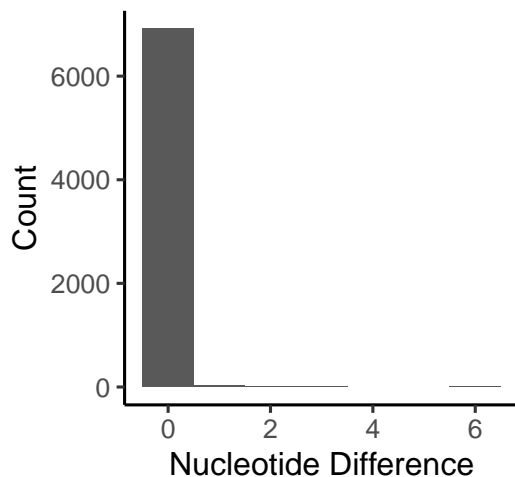
### TRBV5–1\*ap01

10404 sequences assigned  
10375 (99.7%) exact matches, in which:  
10347 unique CDR3  
13 unique J



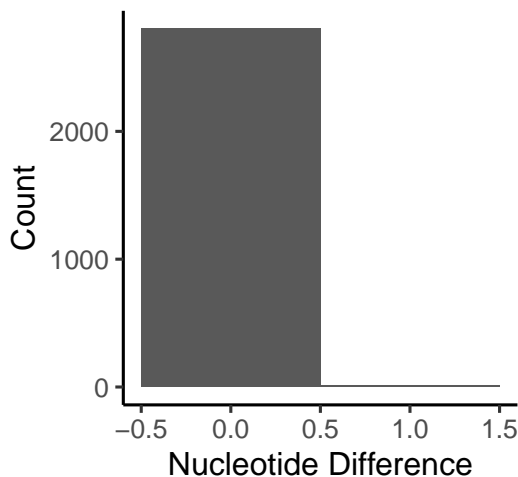
### TRBV3–12\*ap01

6943 sequences assigned  
6915 (99.6%) exact matches, in which:  
6902 unique CDR3  
13 unique J



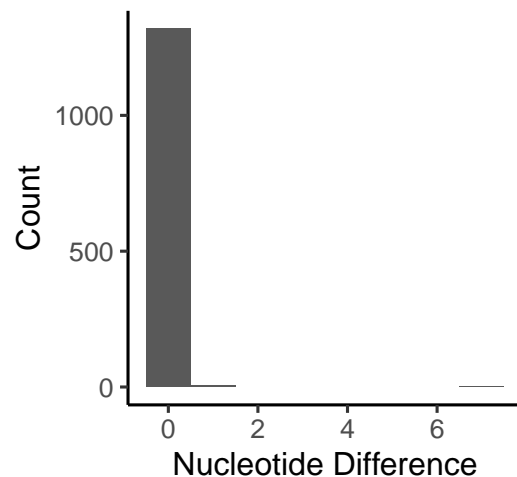
### TRBV4–2\*ap01

2817 sequences assigned  
2803 (99.5%) exact matches, in which:  
2799 unique CDR3  
13 unique J



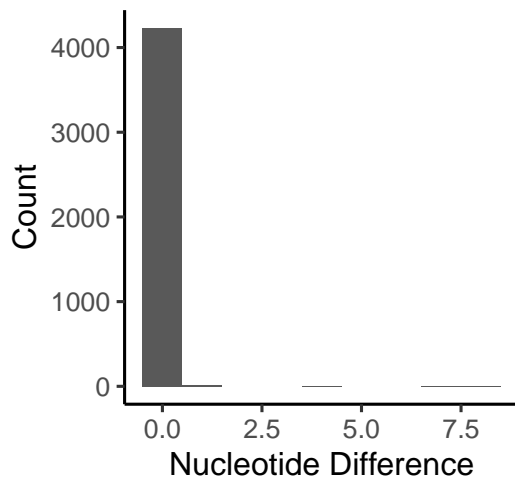
### TRBV25–1\*ap01

1325 sequences assigned  
1319 (99.5%) exact matches, in which:  
1313 unique CDR3  
13 unique J



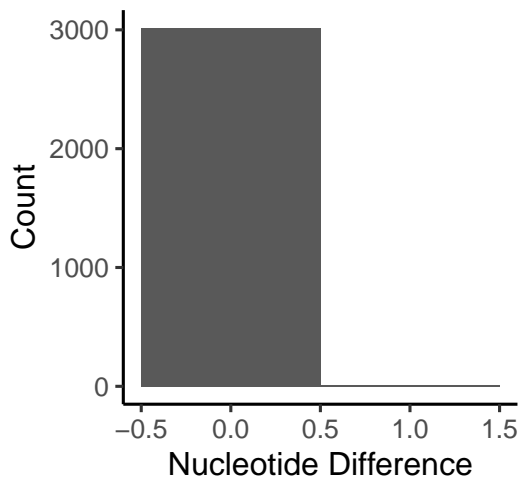
### TRBV4–1\*ap01

4248 sequences assigned  
4230 (99.6%) exact matches, in which:  
4222 unique CDR3  
13 unique J



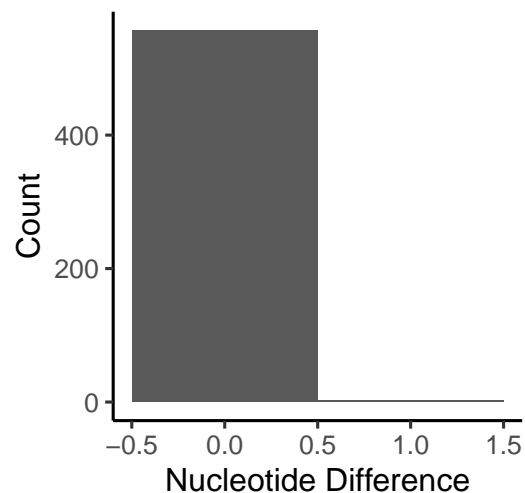
### TRBV4–3\*ap01

3028 sequences assigned  
3015 (99.6%) exact matches, in which:  
3009 unique CDR3  
13 unique J



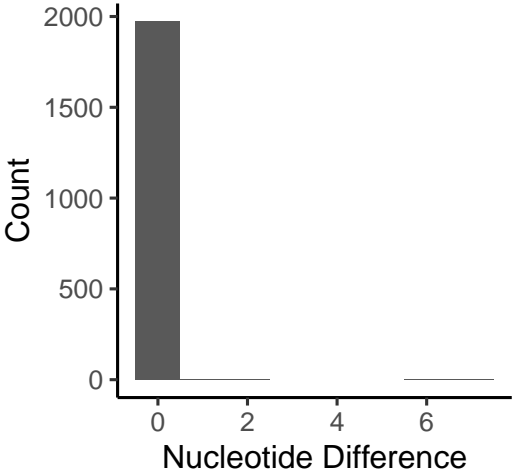
### TRBV5–3\*ap01

559 sequences assigned  
557 (99.6%) exact matches, in which:  
556 unique CDR3  
13 unique J



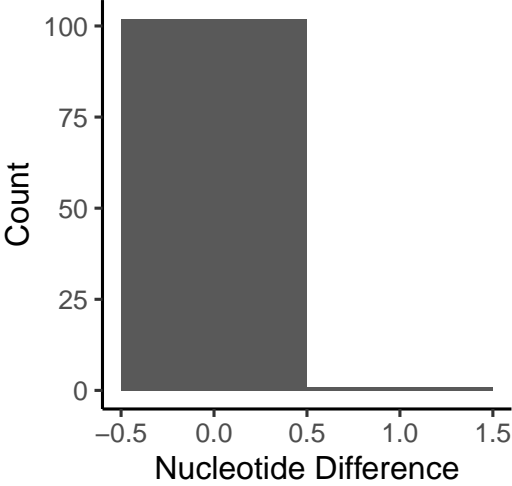
TRBV5-4\*ap01

1979 sequences assigned  
1973 (99.7%) exact matches, in which:  
1973 unique CDR3  
13 unique J



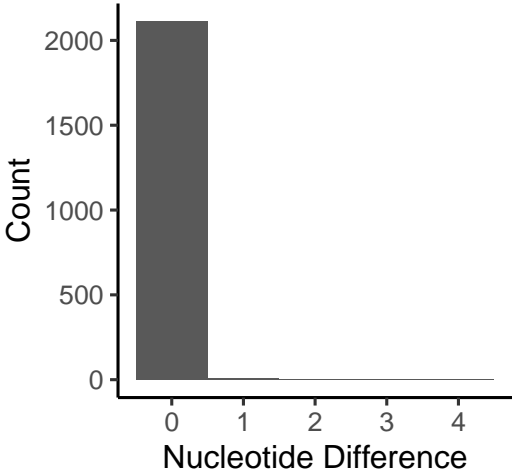
TRBV5-7\*ap01

103 sequences assigned  
102 (99%) exact matches, in which:  
102 unique CDR3  
13 unique J



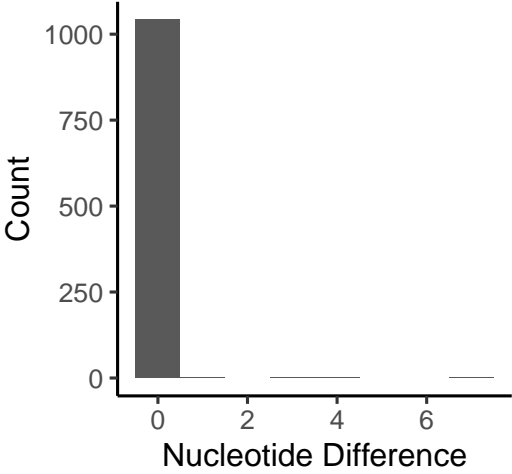
TRBV6-4\*ap01

2124 sequences assigned  
2112 (99.4%) exact matches, in which:  
2111 unique CDR3  
13 unique J



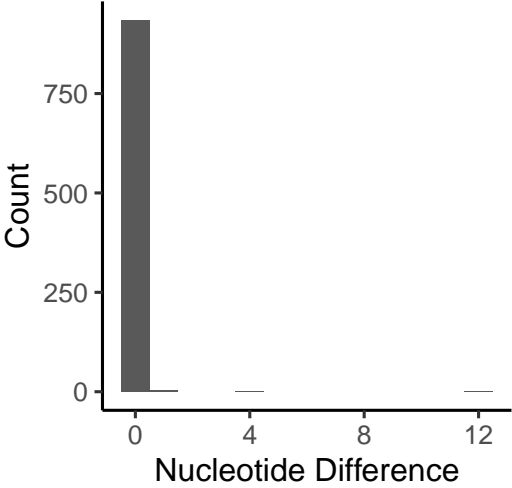
TRBV5-5\*ap01

1047 sequences assigned  
1042 (99.5%) exact matches, in which:  
1040 unique CDR3  
13 unique J



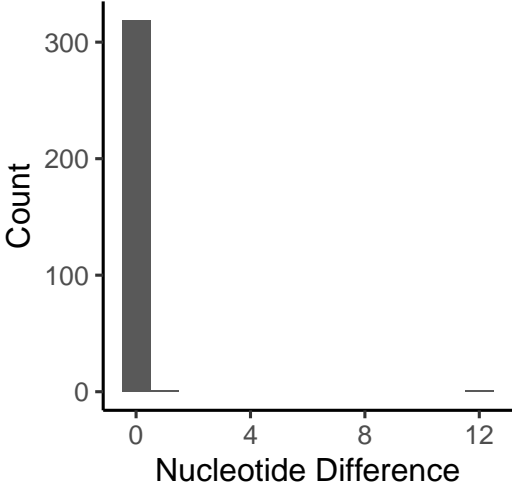
TRBV5-8\*ap01

941 sequences assigned  
935 (99.4%) exact matches, in which:  
935 unique CDR3  
13 unique J



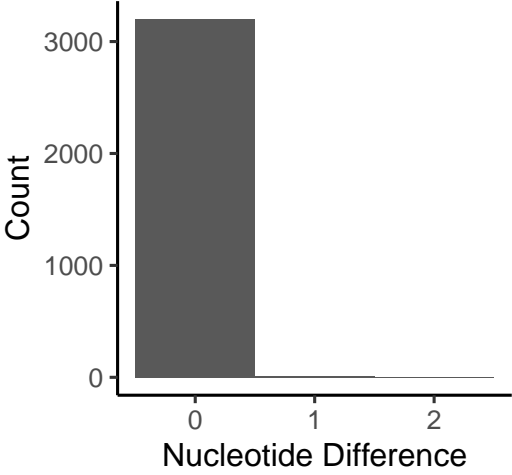
TRBV6-7\*ap01

321 sequences assigned  
319 (99.4%) exact matches, in which:  
319 unique CDR3  
13 unique J



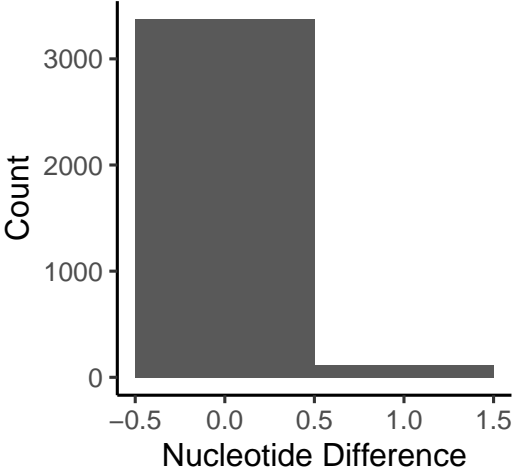
TRBV5-6\*ap01

3214 sequences assigned  
3201 (99.6%) exact matches, in which:  
3191 unique CDR3  
13 unique J



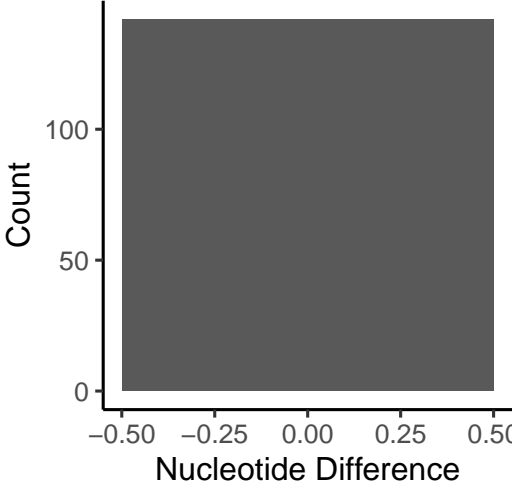
TRBV6-1\*ap01

3489 sequences assigned  
3375 (96.7%) exact matches, in which:  
3366 unique CDR3  
13 unique J



TRBV6-8\*ap01

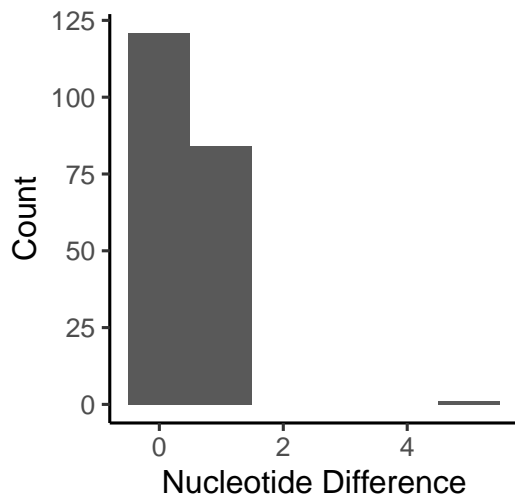
142 sequences assigned  
142 (100%) exact matches, in which:  
142 unique CDR3  
13 unique J





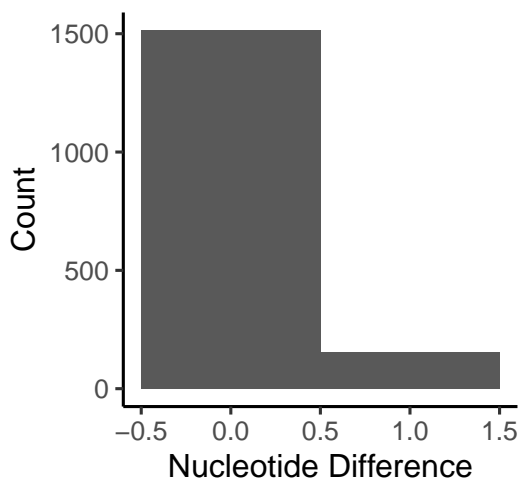
### TRBV6–9\*ap01

206 sequences assigned  
121 (58.7%) exact matches, in which:  
121 unique CDR3  
13 unique J



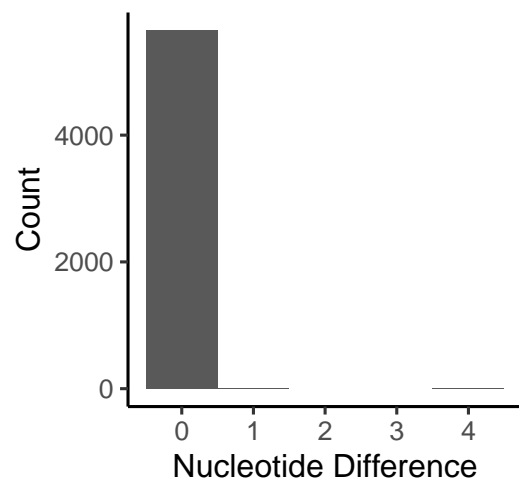
### TRBV6–56\*ap02

1669 sequences assigned  
1514 (90.7%) exact matches, in which:  
1506 unique CDR3  
13 unique J



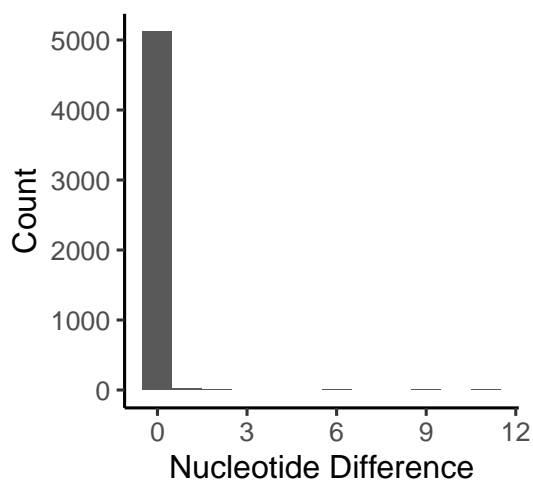
### TRBV7–2\*ap01

5664 sequences assigned  
5652 (99.8%) exact matches, in which:  
5652 unique CDR3  
13 unique J



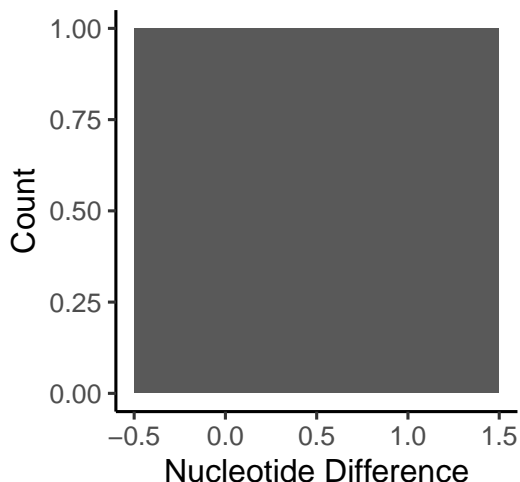
### TRBV6–23\*ap01

5143 sequences assigned  
5118 (99.5%) exact matches, in which:  
5103 unique CDR3  
13 unique J



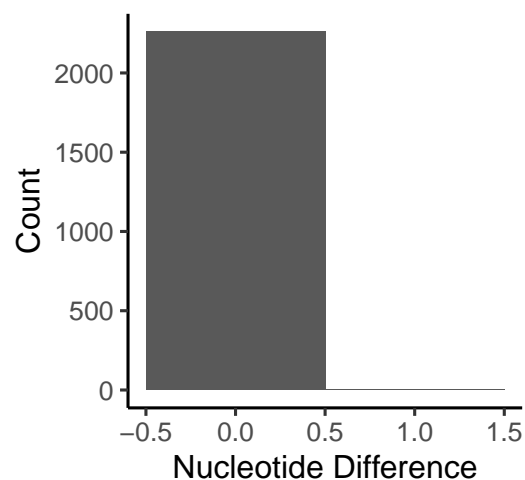
### TRBV7–1\*ap01

2 sequences assigned  
1 (50%) exact matches, in which:  
1 unique CDR3  
1 unique J



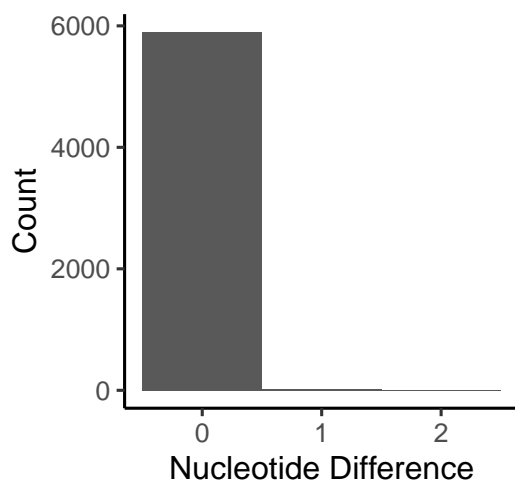
### TRBV7–3\*ap01

2261 sequences assigned  
2260 (100%) exact matches, in which:  
2254 unique CDR3  
13 unique J



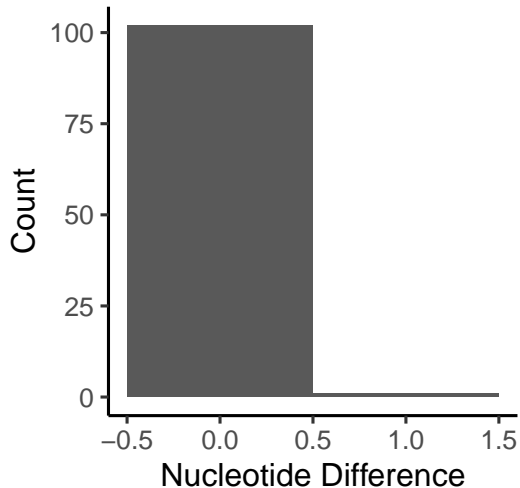
### TRBV6–56\*ap01

5917 sequences assigned  
5898 (99.7%) exact matches, in which:  
5874 unique CDR3  
13 unique J



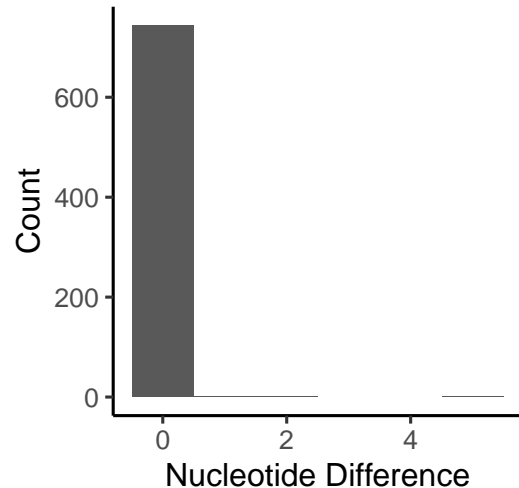
### TRBV7–1\*ap01\_G291C\_

103 sequences assigned  
102 (99%) exact matches, in which:  
102 unique CDR3  
13 unique J



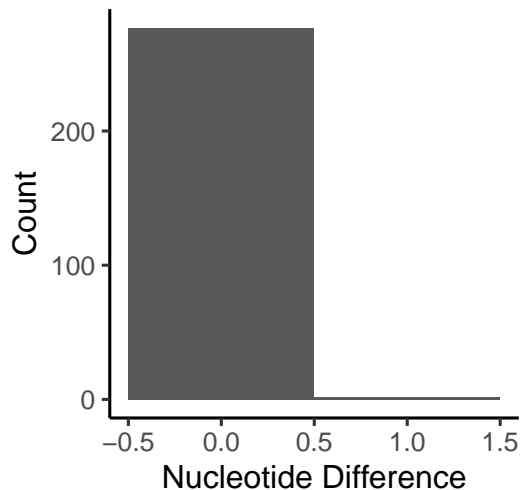
### TRBV7–3\*ap02

749 sequences assigned  
744 (99.3%) exact matches, in which:  
744 unique CDR3  
13 unique J



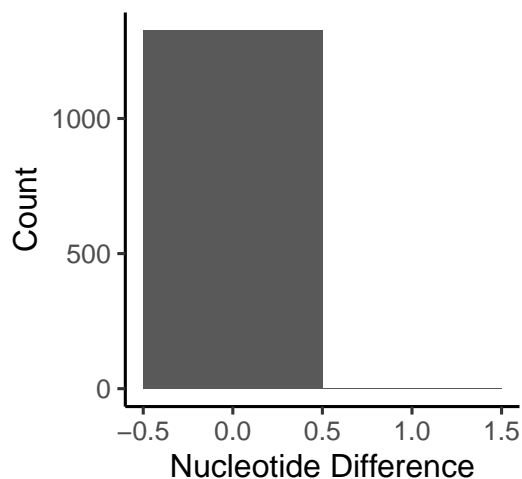
### TRBV7-4\*ap01

279 sequences assigned  
277 (99.3%) exact matches, in which:  
277 unique CDR3  
13 unique J



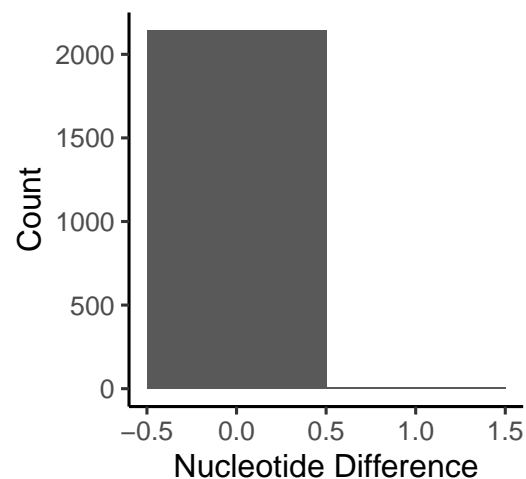
### TRBV7-8\*ap01

1329 sequences assigned  
1326 (99.8%) exact matches, in which:  
1325 unique CDR3  
13 unique J



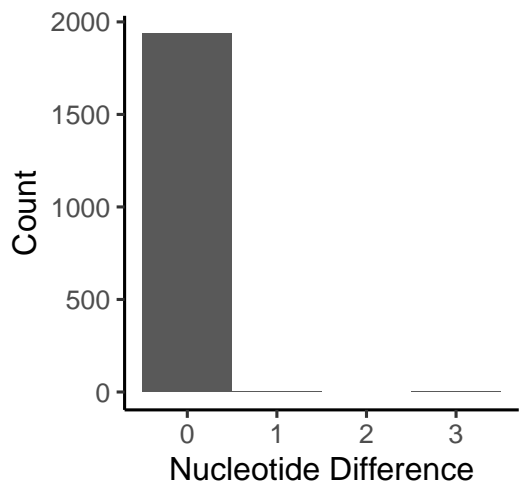
### TRBV29-1\*ap01

2154 sequences assigned  
2143 (99.5%) exact matches, in which:  
2135 unique CDR3  
13 unique J



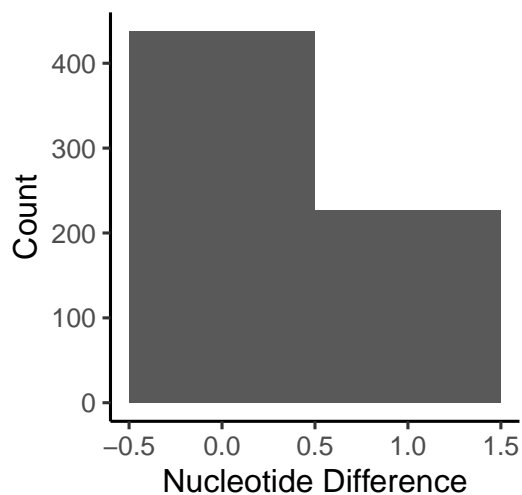
### TRBV7-6\*ap01

1939 sequences assigned  
1936 (99.8%) exact matches, in which:  
1935 unique CDR3  
13 unique J



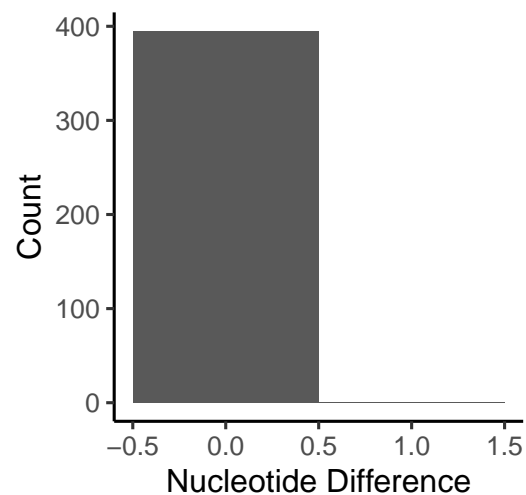
### TRBV7-8\*ap03

665 sequences assigned  
438 (65.9%) exact matches, in which:  
438 unique CDR3  
13 unique J



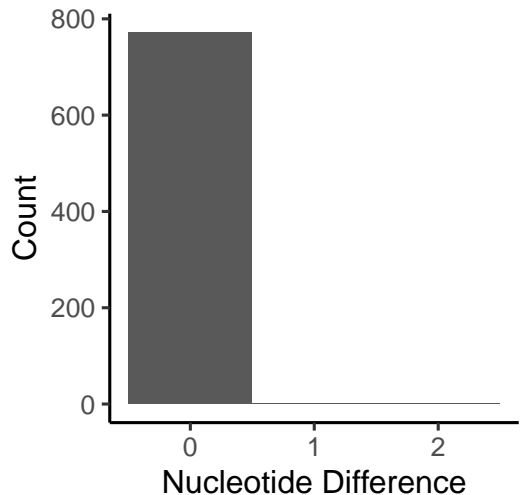
### TRBV29-1\*ap02

396 sequences assigned  
395 (99.7%) exact matches, in which:  
392 unique CDR3  
13 unique J



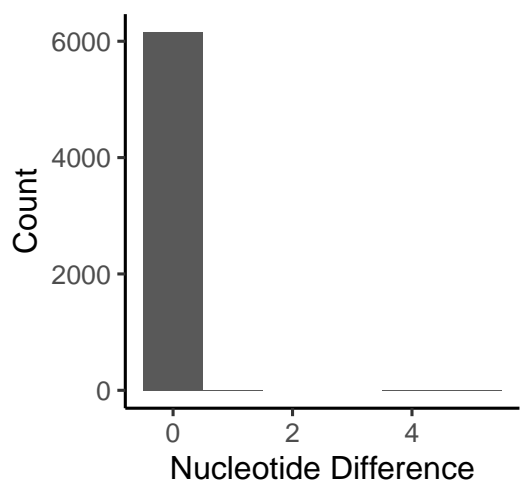
### TRBV7-7\*ap01

775 sequences assigned  
772 (99.6%) exact matches, in which:  
772 unique CDR3  
13 unique J



### TRBV7-9\*ap01

6170 sequences assigned  
6158 (99.8%) exact matches, in which:  
6154 unique CDR3  
13 unique J



TRBV7-1\*ap01\_G291C\_T296C

