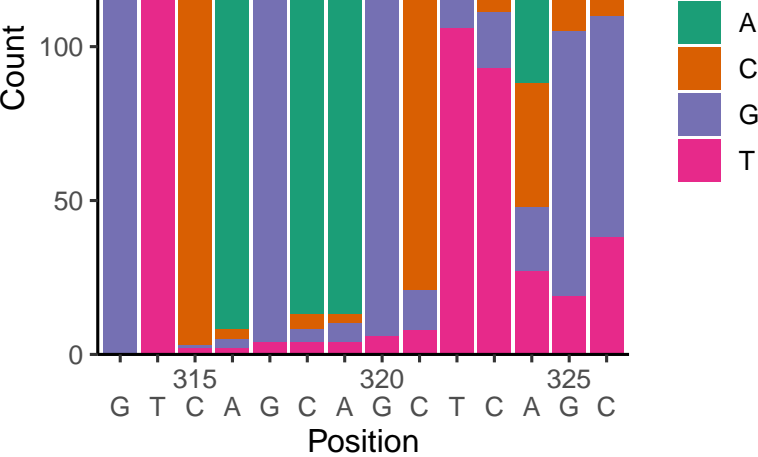
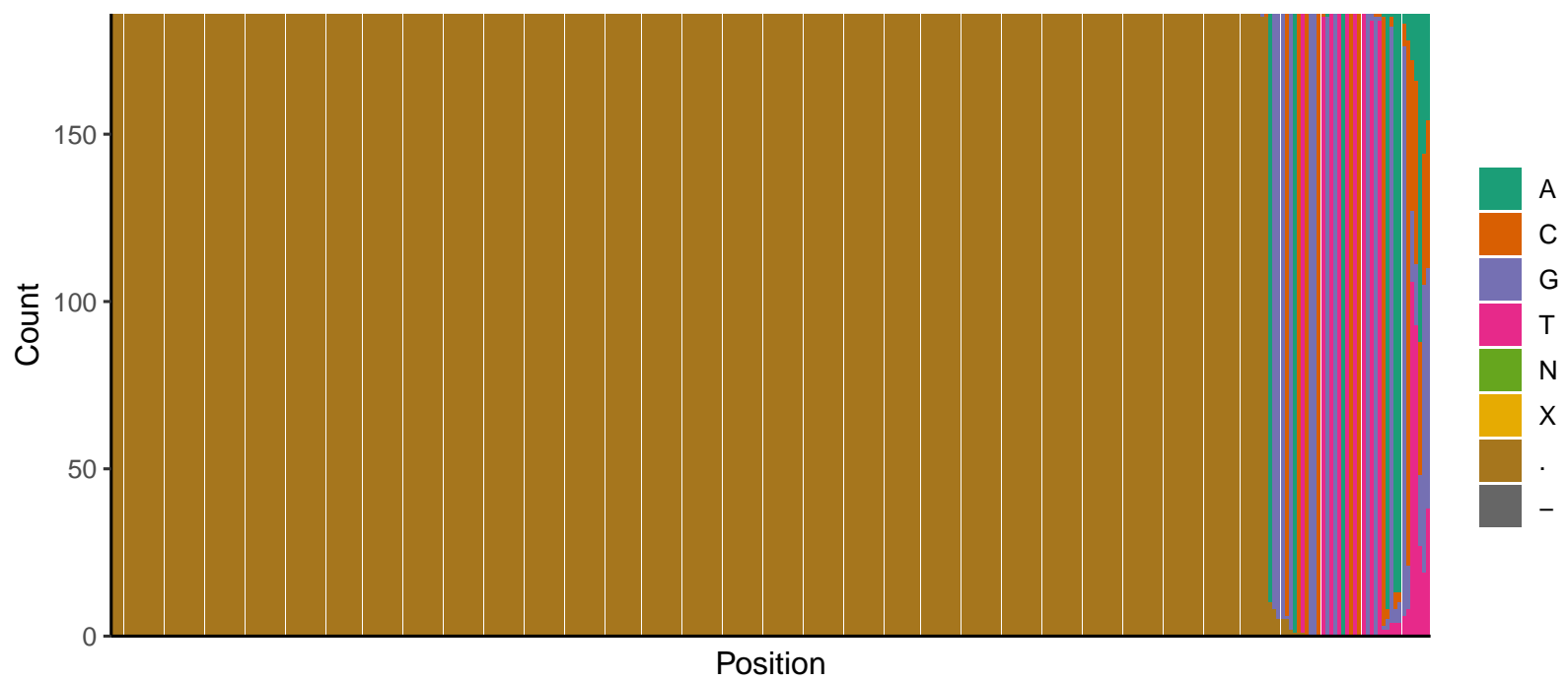


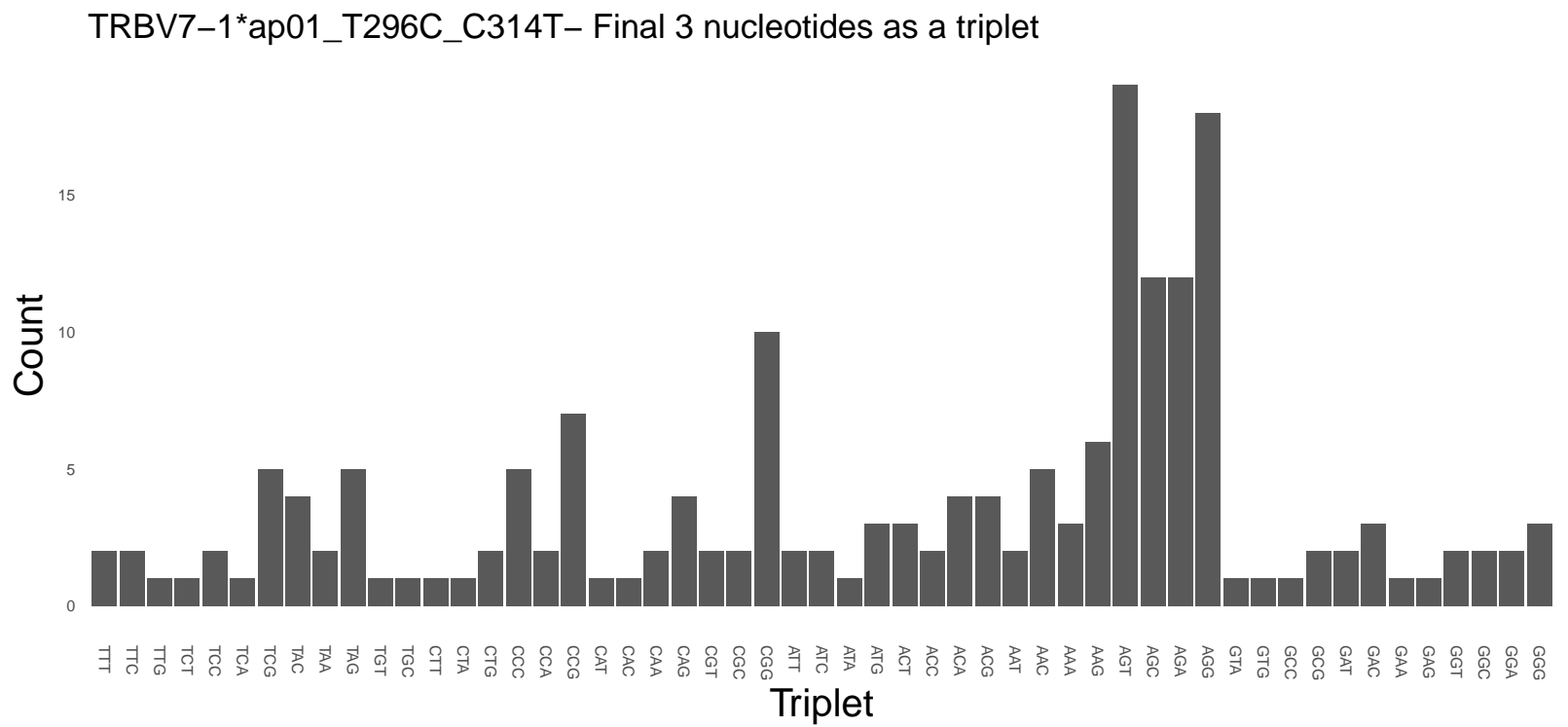
Gene TRBV7-1\*ap01\_T296C\_C314T



Gene TRBV7-1\*ap01\_T296C\_C314T

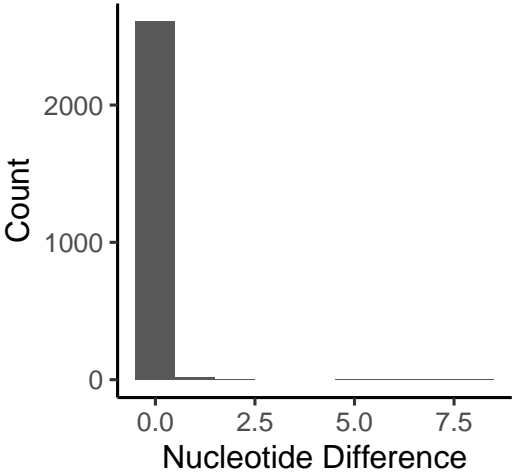


TRBV7-1\*ap01\_T296C\_C314T- Final 3 nucleotides as a triplet



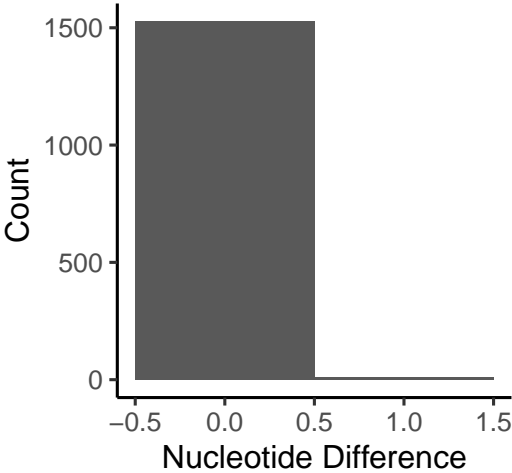
TRBV10-1\*ap01

2633 sequences assigned  
2609 (99.1%) exact matches, in which:  
2569 unique CDR3  
13 unique J



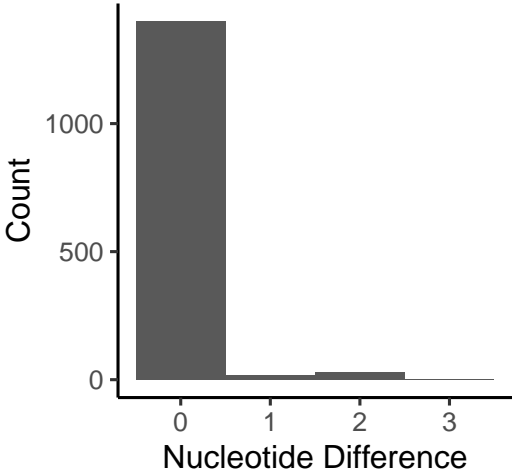
TRBV10-2\*ap01

1536 sequences assigned  
1527 (99.4%) exact matches, in which:  
1504 unique CDR3  
13 unique J



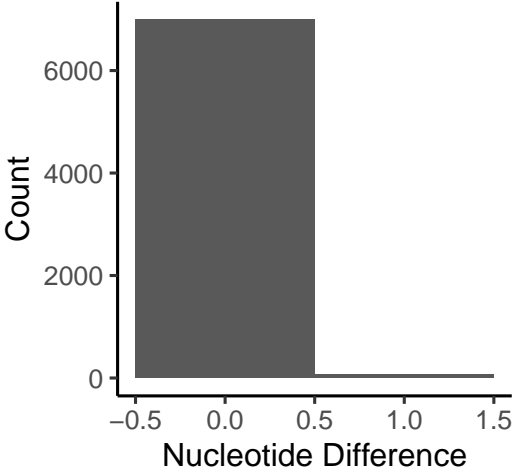
TRBV13\*ap01

1448 sequences assigned  
1399 (96.6%) exact matches, in which:  
1372 unique CDR3  
13 unique J



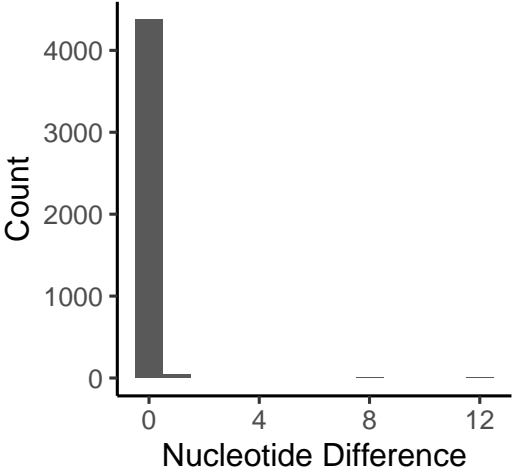
TRBV20-1\*ap01

7070 sequences assigned  
6992 (98.9%) exact matches, in which:  
6911 unique CDR3  
13 unique J



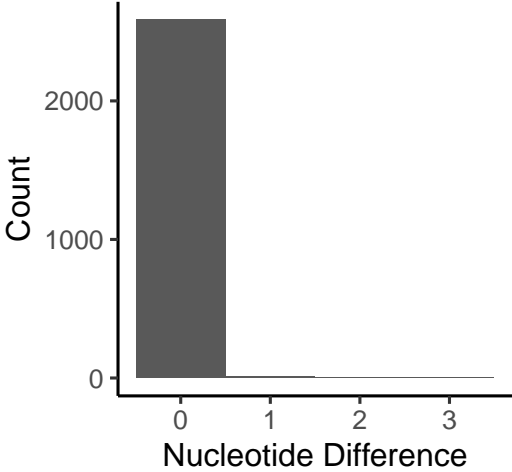
TRBV10-3\*ap01

4422 sequences assigned  
4374 (98.9%) exact matches, in which:  
4306 unique CDR3  
13 unique J



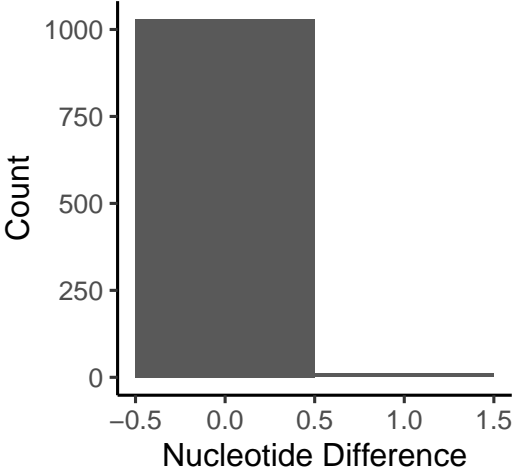
TRBV14\*ap01

2598 sequences assigned  
2586 (99.5%) exact matches, in which:  
2559 unique CDR3  
13 unique J



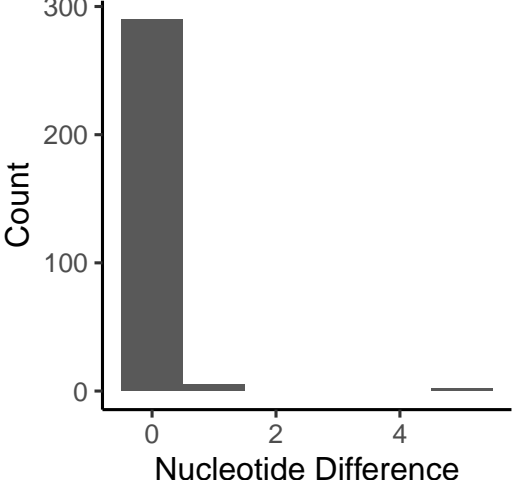
TRBV20-1\*ap02

1041 sequences assigned  
1030 (98.9%) exact matches, in which:  
1017 unique CDR3  
13 unique J



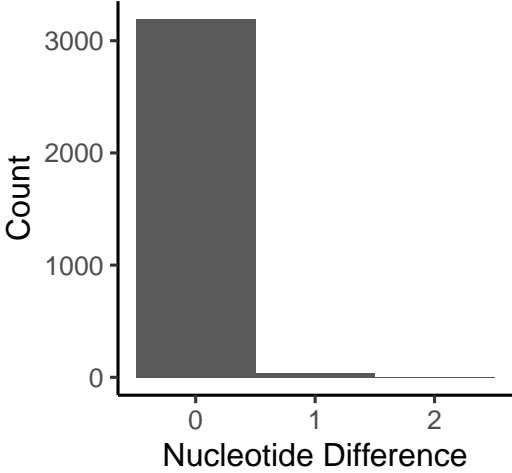
TRBV1\*ap01

297 sequences assigned  
290 (97.6%) exact matches, in which:  
288 unique CDR3  
13 unique J



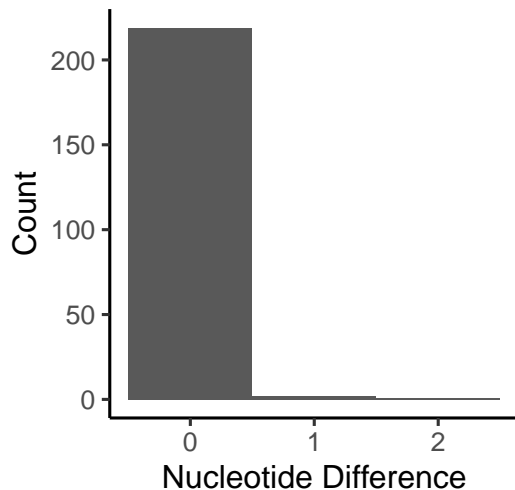
TRBV15\*ap02

3235 sequences assigned  
3193 (98.7%) exact matches, in which:  
3141 unique CDR3  
13 unique J



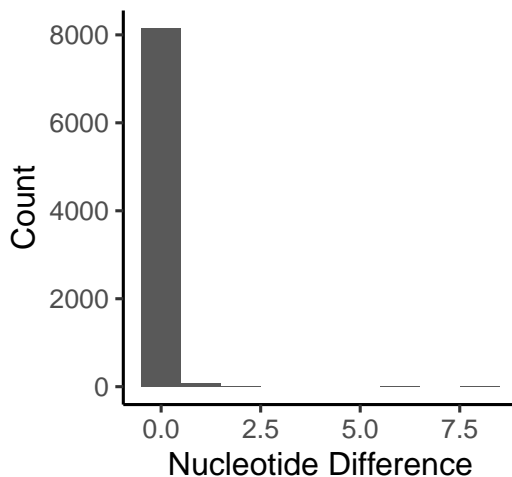
### TRBV16\*ap01

222 sequences assigned  
219 (98.6%) exact matches, in which:  
217 unique CDR3  
12 unique J



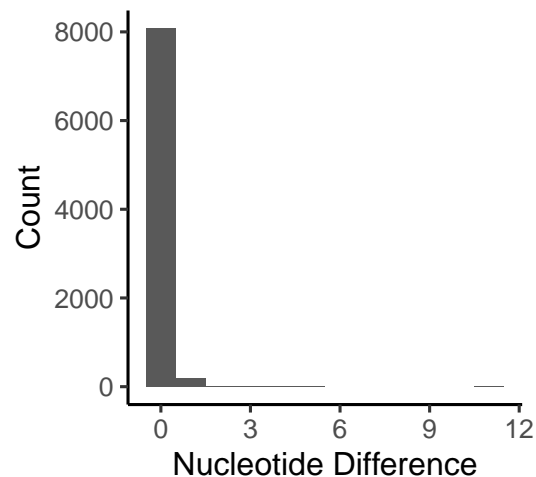
### TRBV2\*ap01

8235 sequences assigned  
8147 (98.9%) exact matches, in which:  
8011 unique CDR3  
13 unique J



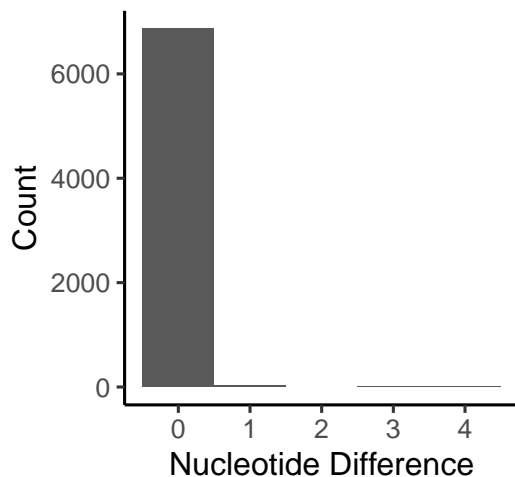
### TRBV30\*ap01

8282 sequences assigned  
8078 (97.5%) exact matches, in which:  
7852 unique CDR3  
13 unique J



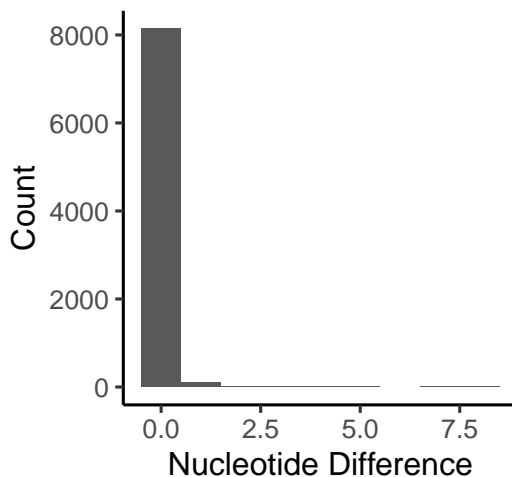
### TRBV18\*ap01

6896 sequences assigned  
6865 (99.6%) exact matches, in which:  
6823 unique CDR3  
13 unique J



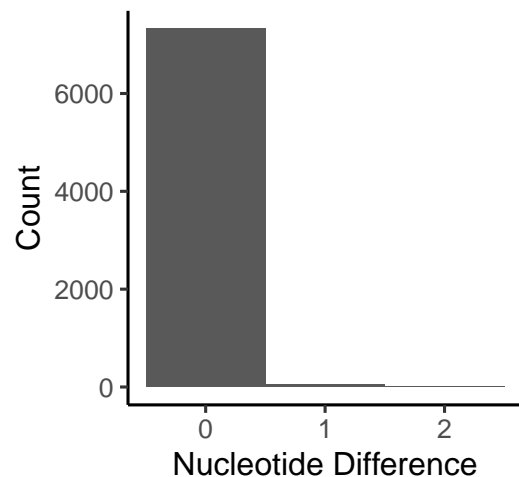
### TRBV27\*ap01

8255 sequences assigned  
8141 (98.6%) exact matches, in which:  
8031 unique CDR3  
13 unique J



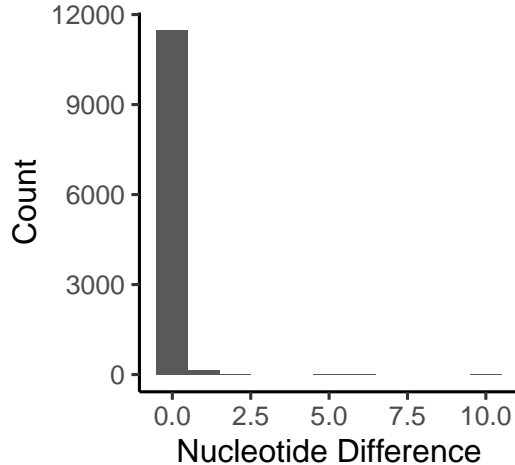
### TRBV9\*ap01

7373 sequences assigned  
7324 (99.3%) exact matches, in which:  
7263 unique CDR3  
13 unique J



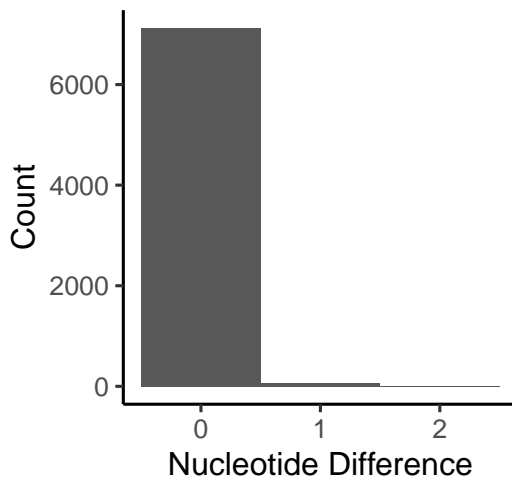
### TRBV19\*ap01

11637 sequences assigned  
11493 (98.8%) exact matches, in which:  
11395 unique CDR3  
13 unique J



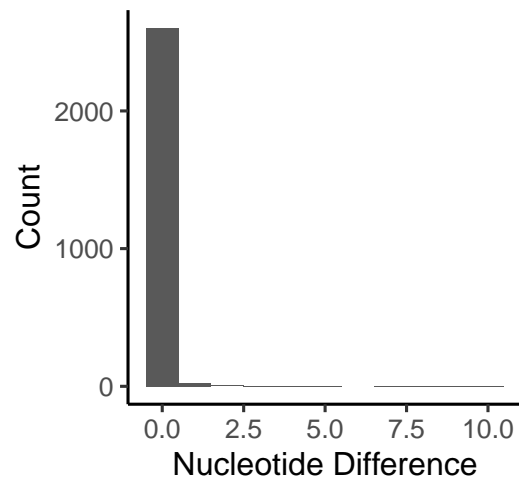
### TRBV28\*ap01

7194 sequences assigned  
7124 (99%) exact matches, in which:  
7040 unique CDR3  
13 unique J



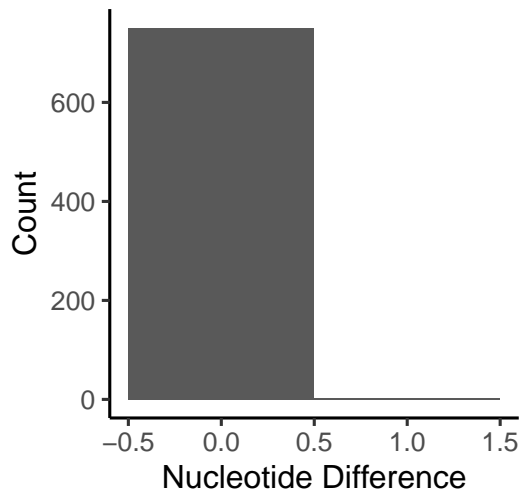
### TRBV21-1\*ap01

2645 sequences assigned  
2602 (98.4%) exact matches, in which:  
2583 unique CDR3  
13 unique J



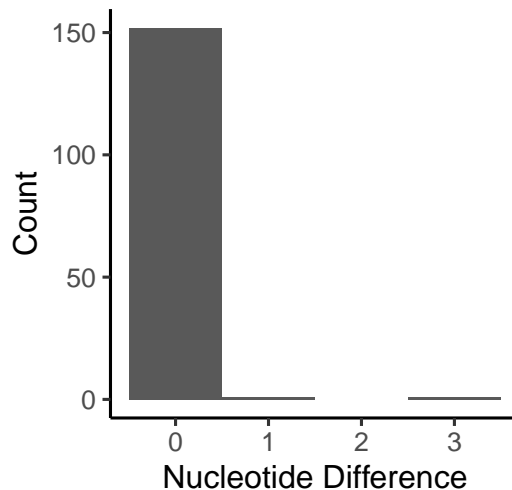
### TRBV11-1\*ap01

754 sequences assigned  
751 (99.6%) exact matches, in which:  
745 unique CDR3  
13 unique J



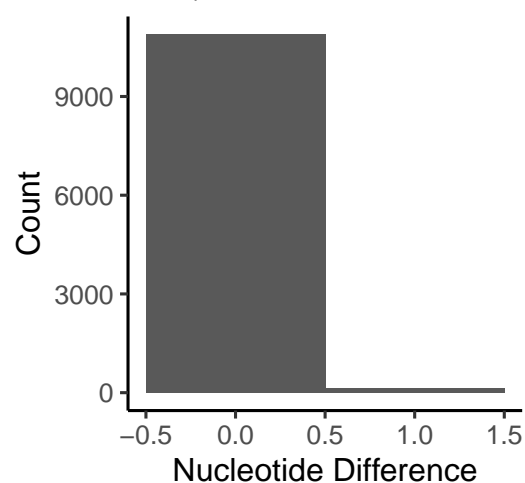
### TRBV12-1\*ap01

154 sequences assigned  
152 (98.7%) exact matches, in which:  
152 unique CDR3  
13 unique J



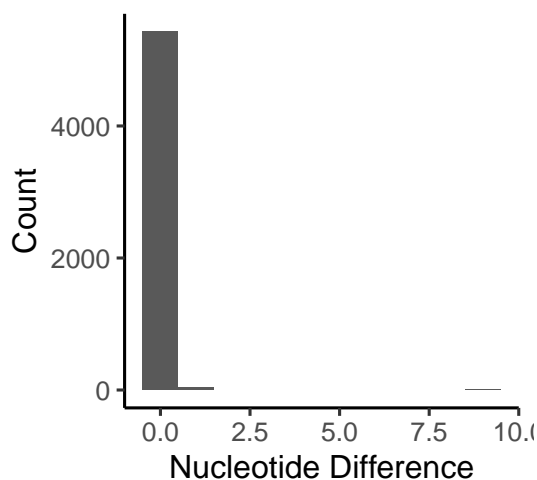
### TRBV12-34\*ap01

11014 sequences assigned  
10886 (98.8%) exact matches, in which:  
10716 unique CDR3  
13 unique J



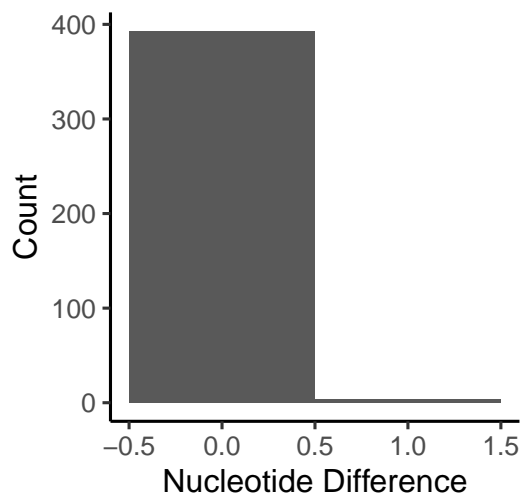
### TRBV11-2\*ap01

5464 sequences assigned  
5428 (99.3%) exact matches, in which:  
5392 unique CDR3  
13 unique J



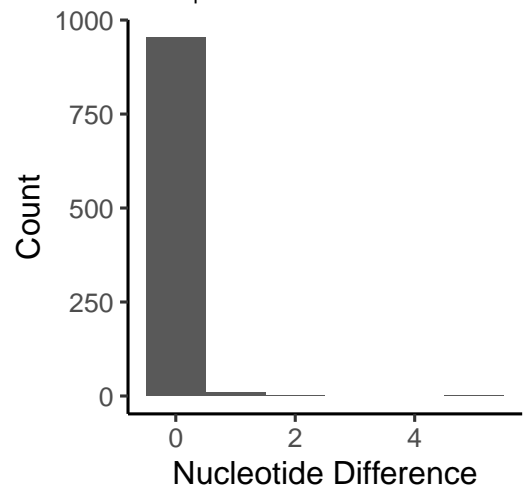
### TRBV12-2\*ap01

397 sequences assigned  
393 (99%) exact matches, in which:  
391 unique CDR3  
13 unique J



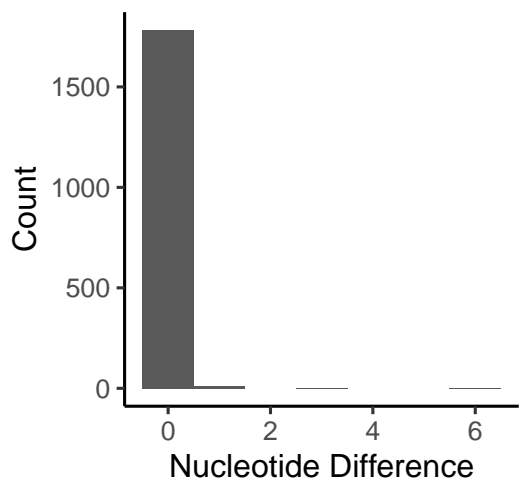
### TRBV23-1\*ap01

965 sequences assigned  
953 (98.8%) exact matches, in which:  
946 unique CDR3  
13 unique J



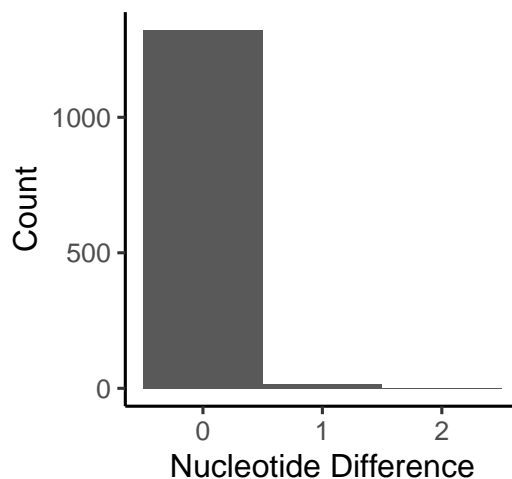
### TRBV11-3\*ap01

1796 sequences assigned  
1783 (99.3%) exact matches, in which:  
1771 unique CDR3  
13 unique J



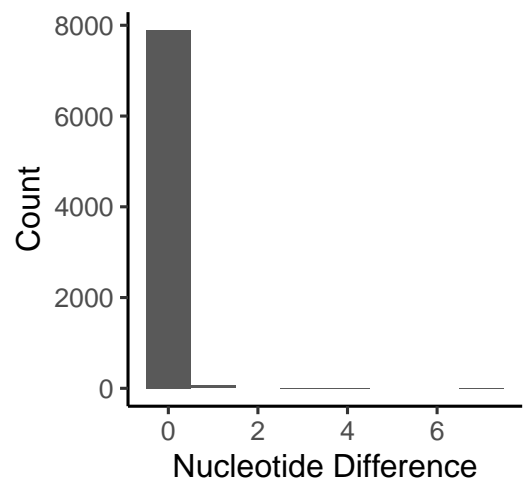
### TRBV12-5\*ap01

1339 sequences assigned  
1322 (98.7%) exact matches, in which:  
1306 unique CDR3  
13 unique J



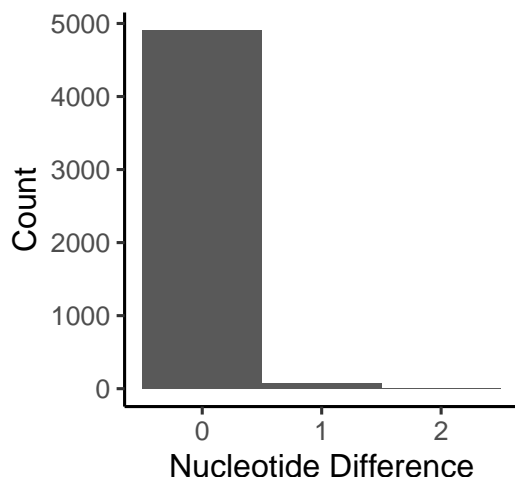
### TRBV3-12\*ap01

7963 sequences assigned  
7895 (99.1%) exact matches, in which:  
7838 unique CDR3  
13 unique J



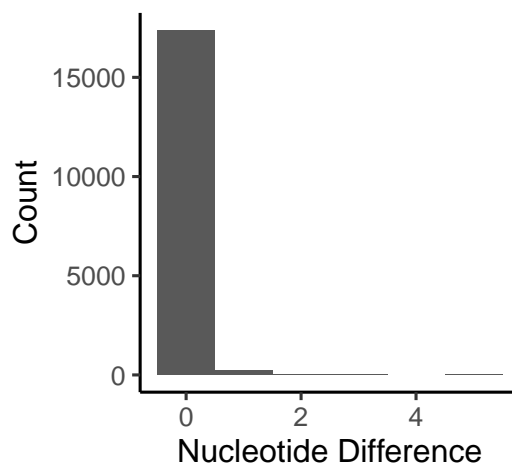
### TRBV4-1\*ap01

4975 sequences assigned  
4905 (98.6%) exact matches, in which:  
4797 unique CDR3  
13 unique J



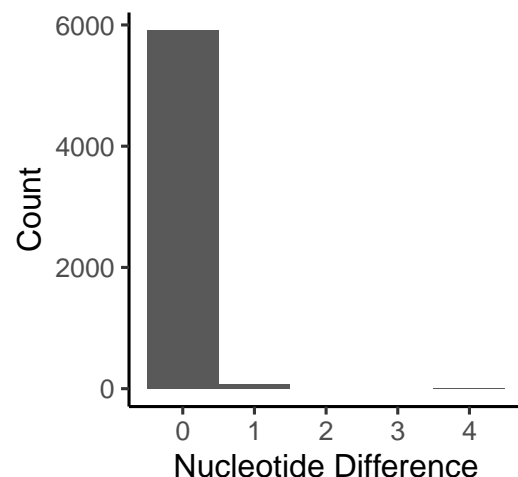
### TRBV5-1\*ap01

17593 sequences assigned  
17380 (98.8%) exact matches, in which:  
17025 unique CDR3  
13 unique J



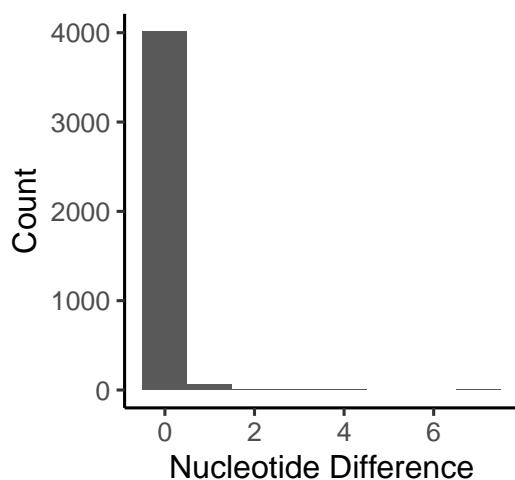
### TRBV5-4\*ap01

5987 sequences assigned  
5910 (98.7%) exact matches, in which:  
5802 unique CDR3  
13 unique J



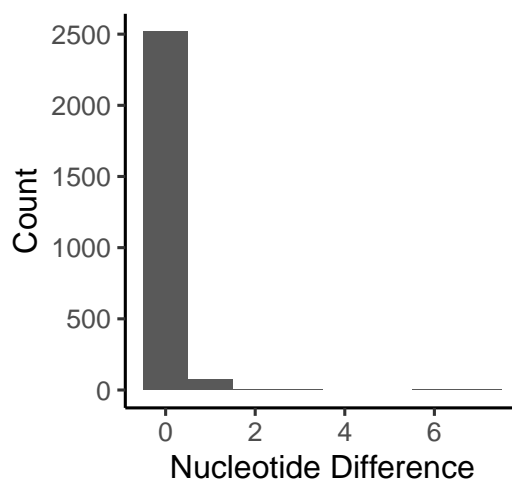
### TRBV24-1\*ap01

4081 sequences assigned  
4011 (98.3%) exact matches, in which:  
3948 unique CDR3  
13 unique J



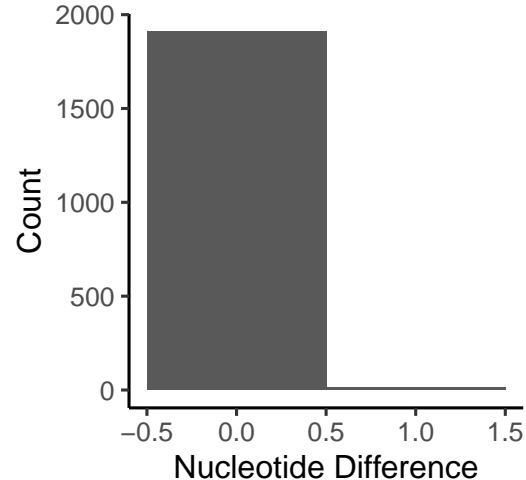
### TRBV25-1\*ap01

2593 sequences assigned  
2517 (97.1%) exact matches, in which:  
2456 unique CDR3  
13 unique J



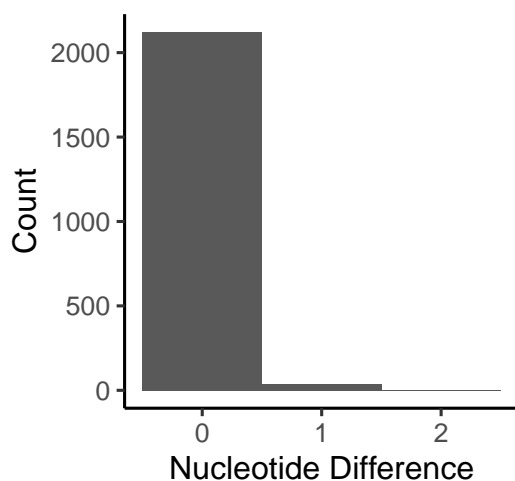
### TRBV5-5\*ap01

1921 sequences assigned  
1909 (99.4%) exact matches, in which:  
1892 unique CDR3  
13 unique J



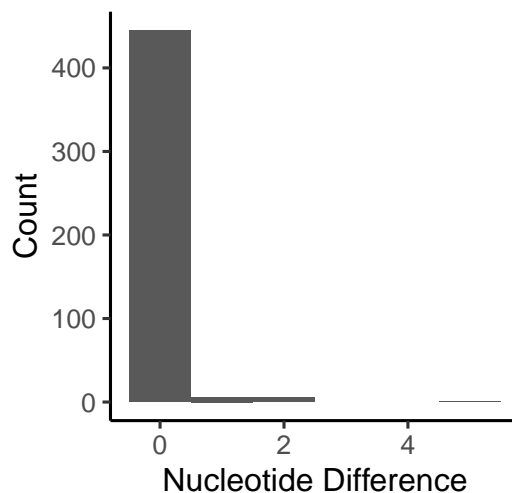
### TRBV4-2\*ap01

2159 sequences assigned  
2122 (98.3%) exact matches, in which:  
2097 unique CDR3  
13 unique J



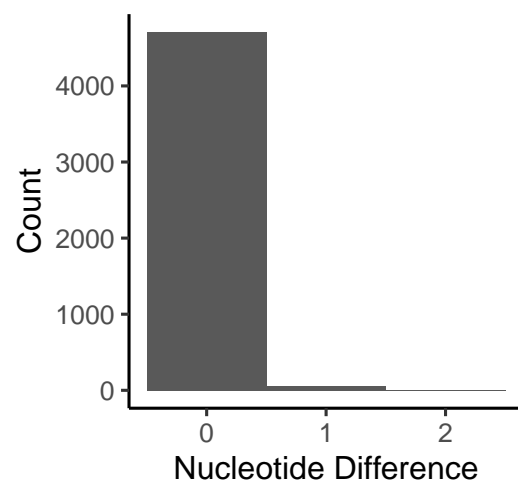
### TRBV5-3\*ap01

457 sequences assigned  
445 (97.4%) exact matches, in which:  
436 unique CDR3  
13 unique J



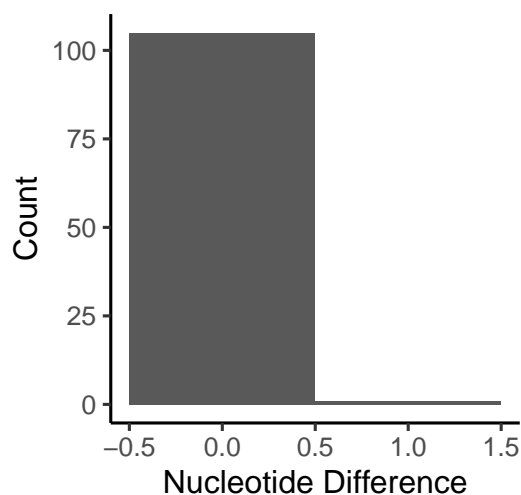
### TRBV5-6\*ap01

4769 sequences assigned  
4708 (98.7%) exact matches, in which:  
4565 unique CDR3  
13 unique J



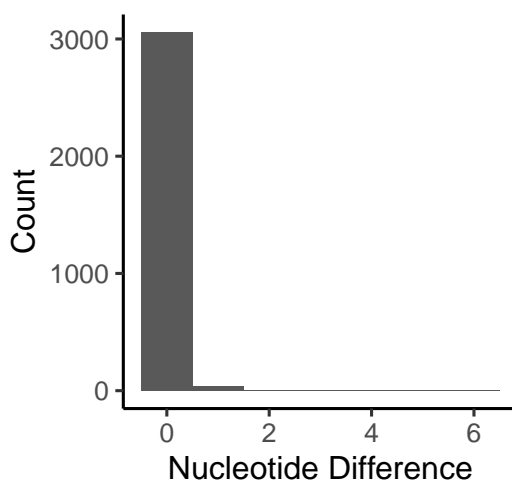
### TRBV5-7\*ap01

106 sequences assigned  
105 (99.1%) exact matches, in which:  
100 unique CDR3  
11 unique J



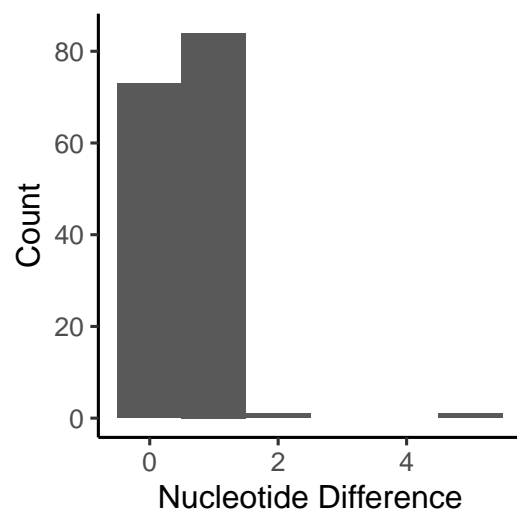
### TRBV6-4\*ap01

3100 sequences assigned  
3056 (98.6%) exact matches, in which:  
3024 unique CDR3  
13 unique J



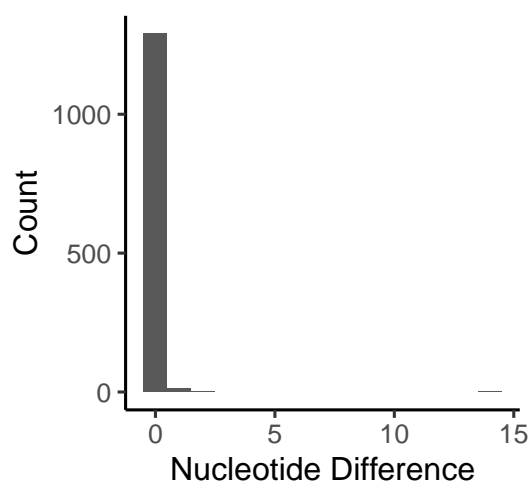
### TRBV6-9\*ap01

159 sequences assigned  
73 (45.9%) exact matches, in which:  
67 unique CDR3  
13 unique J



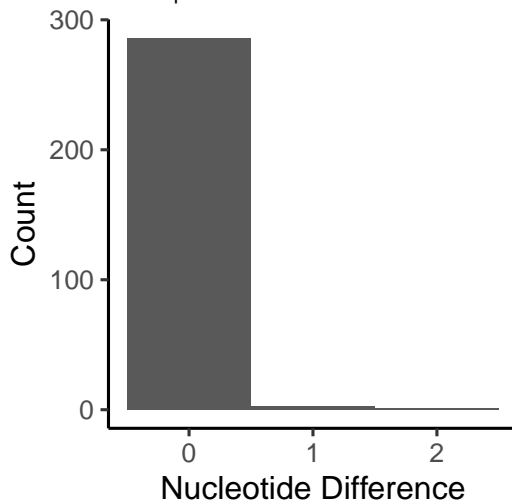
### TRBV5-8\*ap01

1305 sequences assigned  
1290 (98.9%) exact matches, in which:  
1275 unique CDR3  
13 unique J



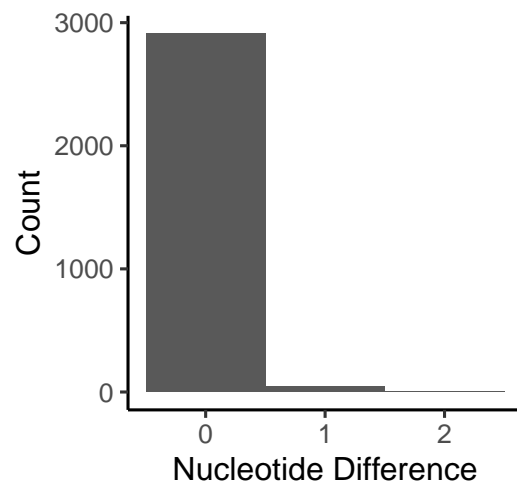
### TRBV6-7\*ap01

290 sequences assigned  
286 (98.6%) exact matches, in which:  
276 unique CDR3  
13 unique J



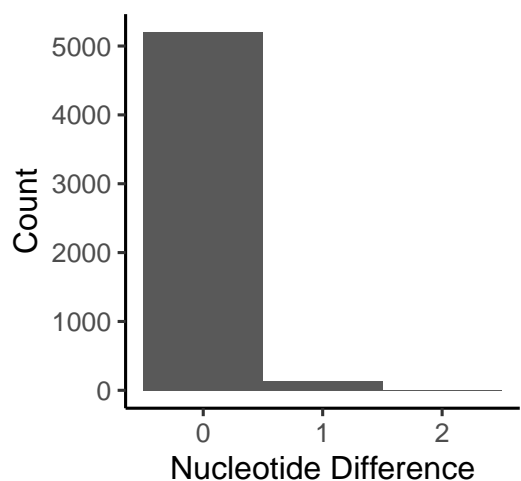
### TRBV6-23\*ap01

2958 sequences assigned  
2910 (98.4%) exact matches, in which:  
2843 unique CDR3  
13 unique J



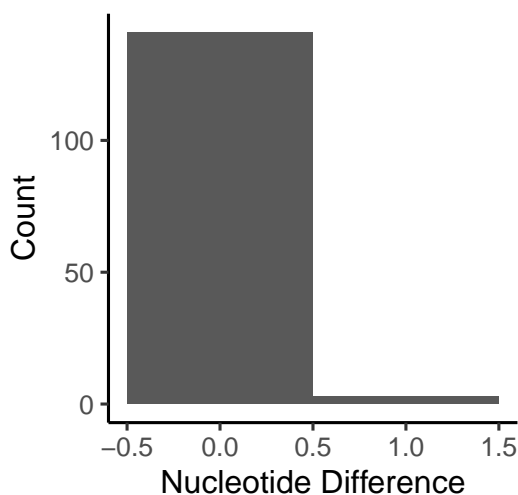
### TRBV6-1\*ap01

5342 sequences assigned  
5203 (97.4%) exact matches, in which:  
5084 unique CDR3  
13 unique J



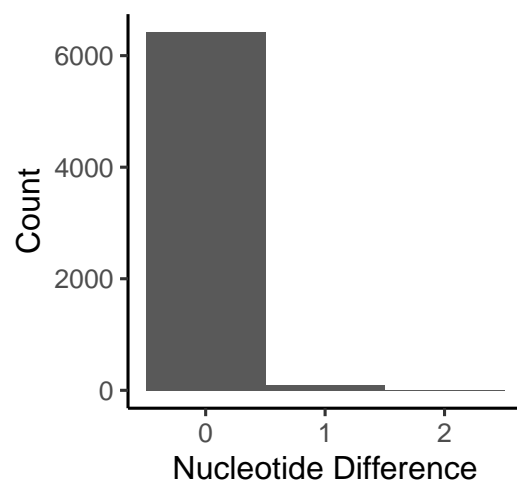
### TRBV6-8\*ap01

144 sequences assigned  
141 (97.9%) exact matches, in which:  
136 unique CDR3  
13 unique J



### TRBV6-56\*ap01

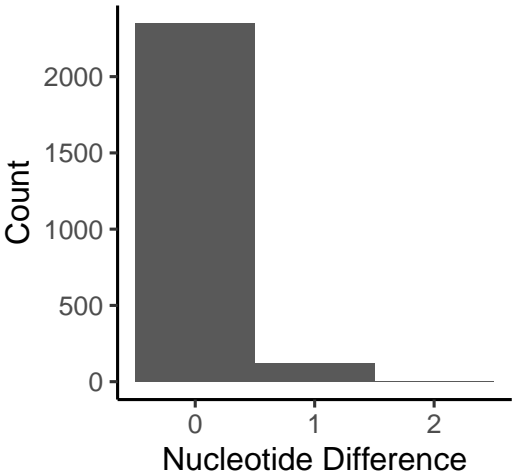
6518 sequences assigned  
6423 (98.5%) exact matches, in which:  
6269 unique CDR3  
13 unique J





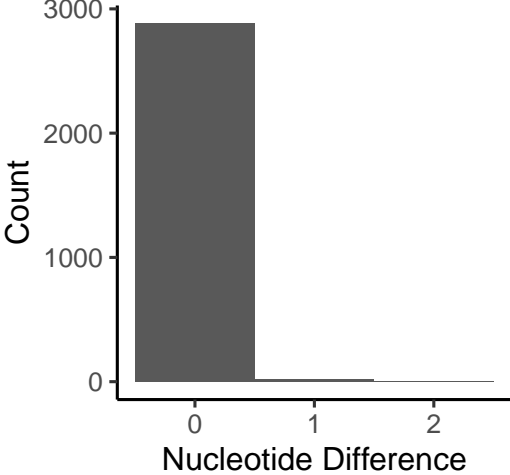
TRBV6-56\*ap02

2472 sequences assigned  
2349 (95%) exact matches, in which:  
2293 unique CDR3  
13 unique J



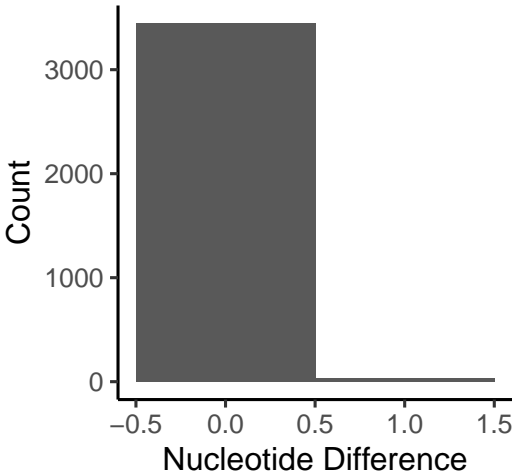
TRBV7-3\*ap01

2908 sequences assigned  
2883 (99.1%) exact matches, in which:  
2848 unique CDR3  
13 unique J



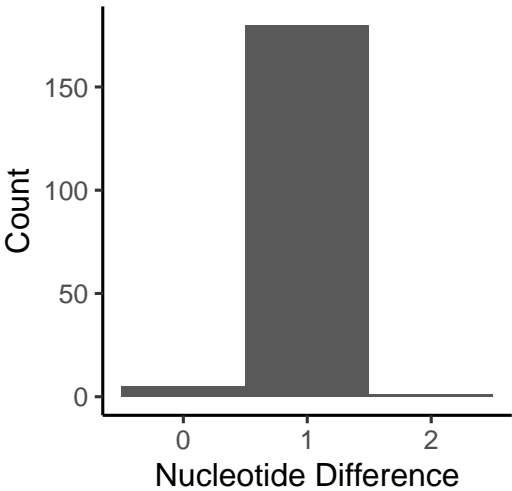
TRBV7-6\*ap01

3479 sequences assigned  
3445 (99%) exact matches, in which:  
3394 unique CDR3  
13 unique J



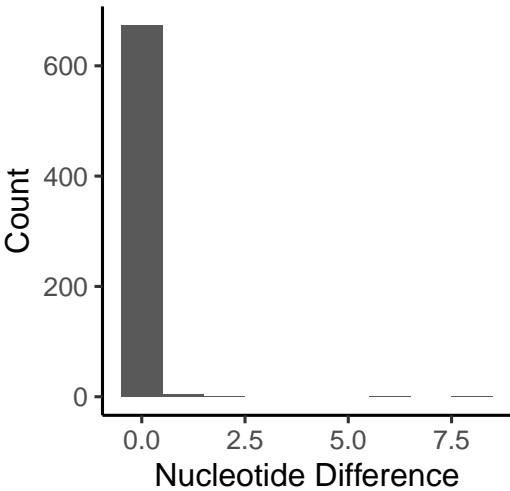
TRBV7-1\*ap01\_T296C\_()

186 sequences assigned  
5 (2.7%) exact matches, in which:  
5 unique CDR3  
4 unique J



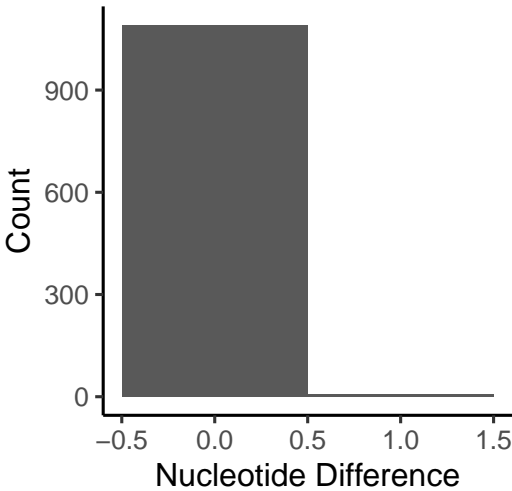
TRBV7-3\*ap03

682 sequences assigned  
674 (98.8%) exact matches, in which:  
667 unique CDR3  
13 unique J



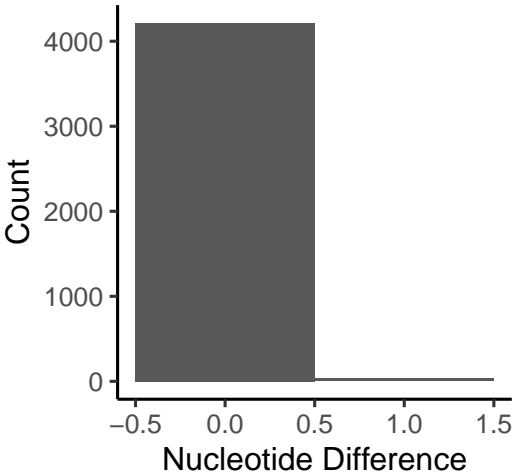
TRBV7-7\*ap01

1098 sequences assigned  
1091 (99.4%) exact matches, in which:  
1061 unique CDR3  
13 unique J



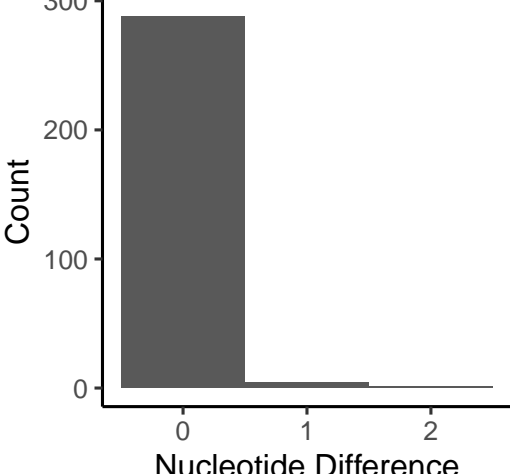
TRBV7-2\*ap01

4248 sequences assigned  
4214 (99.2%) exact matches, in which:  
4166 unique CDR3  
13 unique J



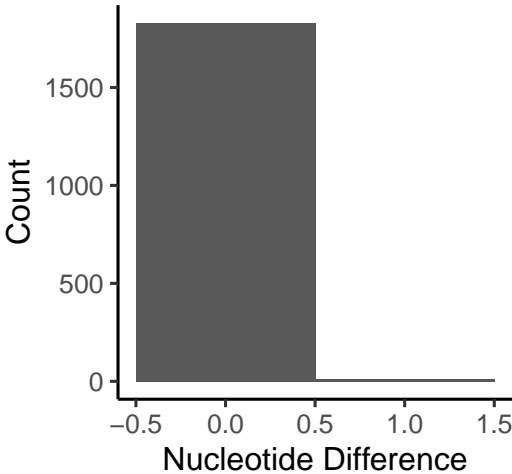
TRBV7-4\*ap01

293 sequences assigned  
288 (98.3%) exact matches, in which:  
282 unique CDR3  
13 unique J



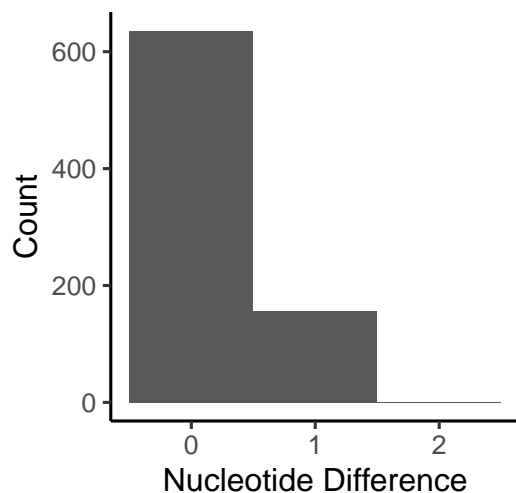
TRBV7-8\*ap01

1841 sequences assigned  
1829 (99.3%) exact matches, in which:  
1806 unique CDR3  
13 unique J



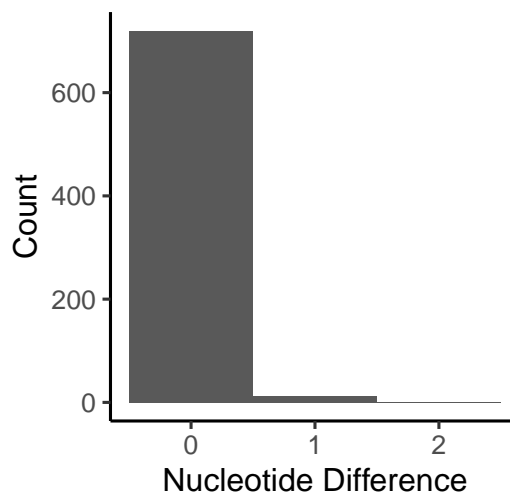
### TRBV7–8\*ap03

793 sequences assigned  
636 (80.2%) exact matches, in which:  
624 unique CDR3  
13 unique J



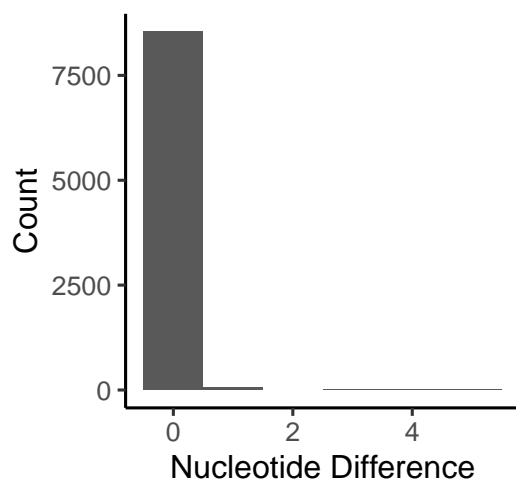
### TRBV29–1\*ap02

733 sequences assigned  
720 (98.2%) exact matches, in which:  
701 unique CDR3  
13 unique J



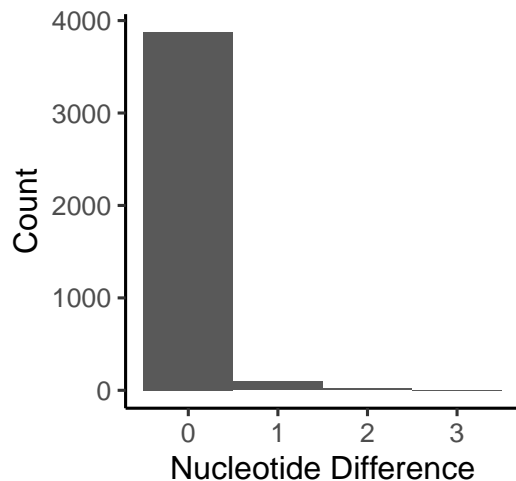
### TRBV7–9\*ap01

8611 sequences assigned  
8541 (99.2%) exact matches, in which:  
8417 unique CDR3  
13 unique J



### TRBV29–1\*ap01

3993 sequences assigned  
3876 (97.1%) exact matches, in which:  
3765 unique CDR3  
13 unique J



TRBV7-1\*ap01\_T296C\_C314T

