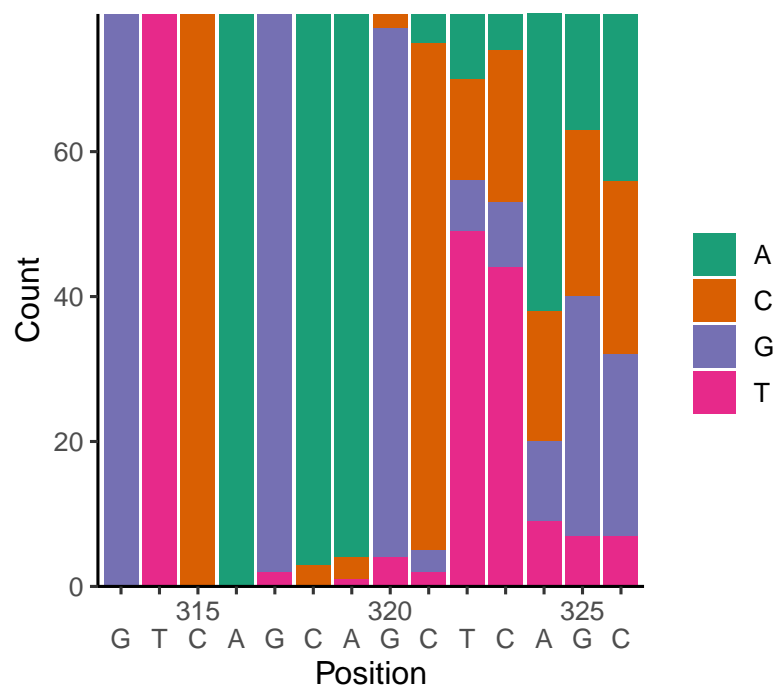
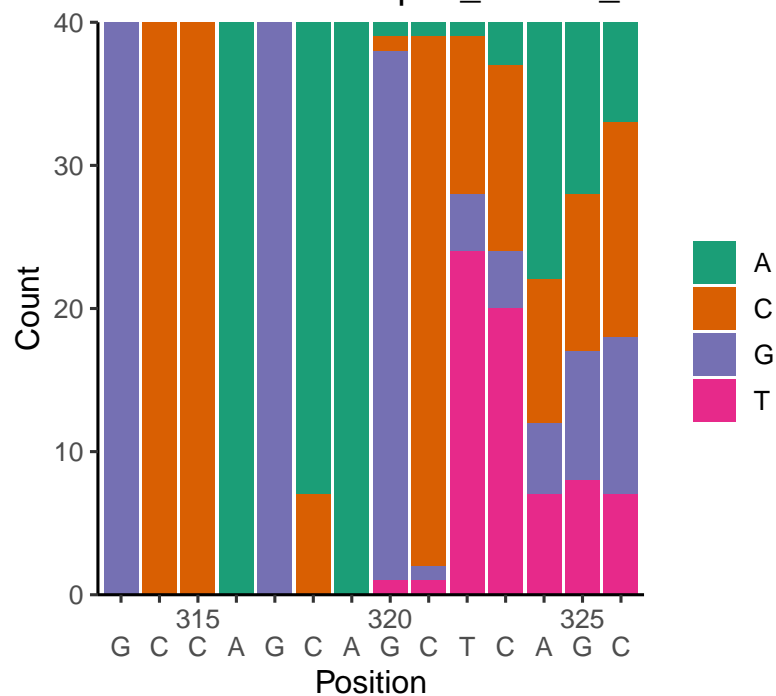


Gene TRBV7-1\*ap01\_G291C\_T296C\_C314T



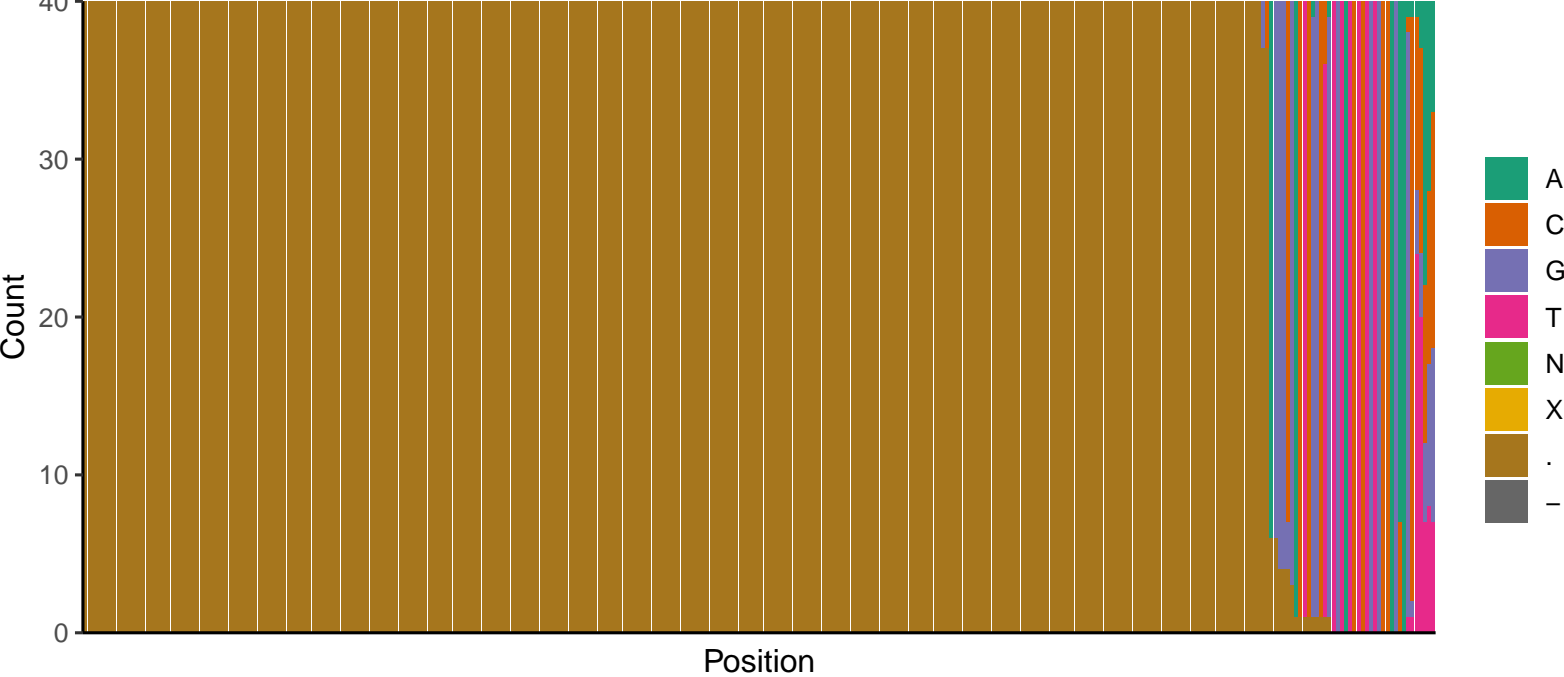
Gene TRBV7-1\*ap01\_G291C\_T296C



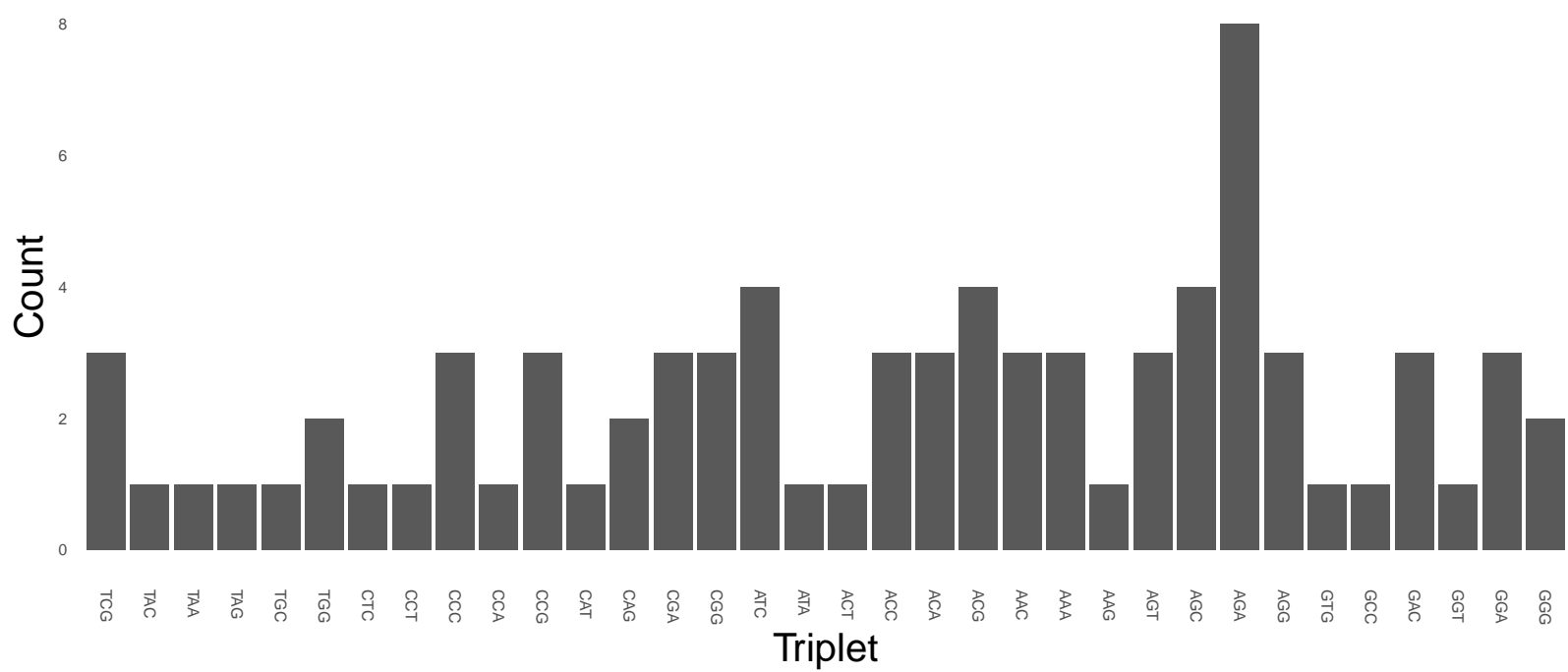
Gene TRBV7-1\*ap01\_G291C\_T296C\_C314T



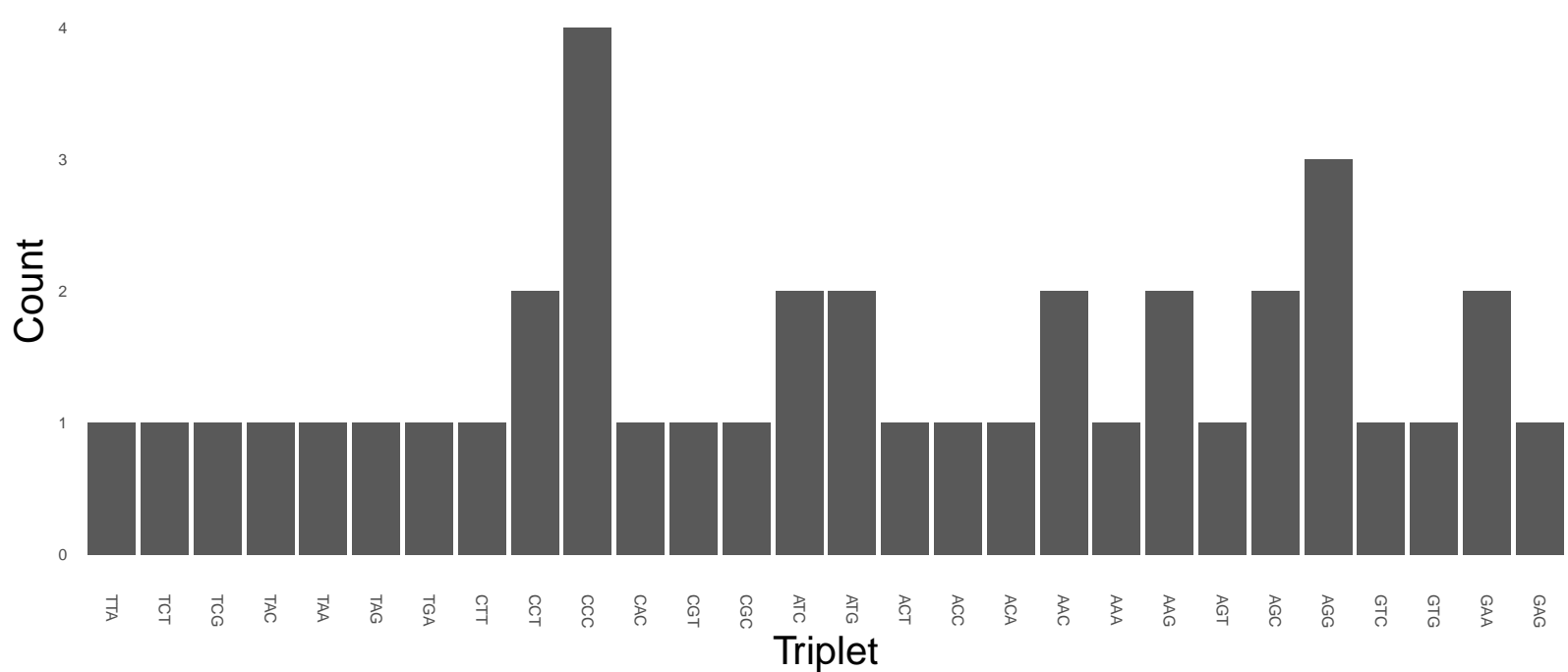
Gene TRBV7-1\*ap01\_G291C\_T296C



TRBV7-1\*ap01\_G291C\_T296C\_C314T- Final 3 nucleotides as a triplet

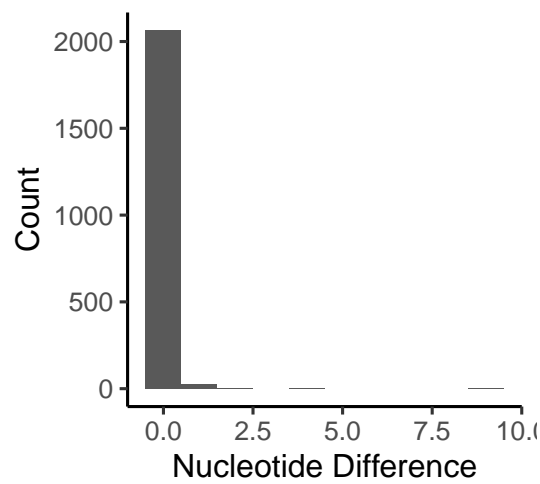


TRBV7-1\*ap01\_G291C\_T296C- Final 3 nucleotides as a triplet



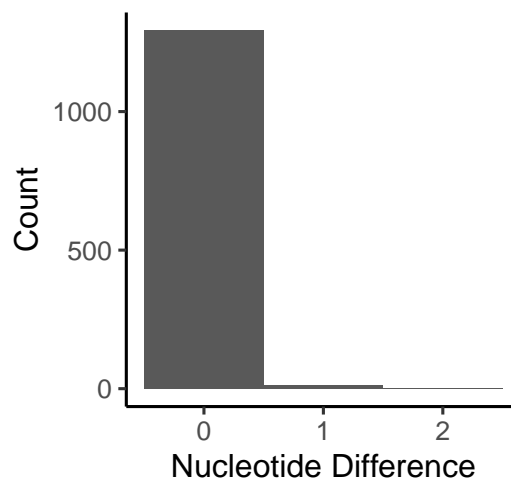
### TRBV10-1\*ap01

2093 sequences assigned  
2064 (98.6%) exact matches, in which:  
2018 unique CDR3  
13 unique J



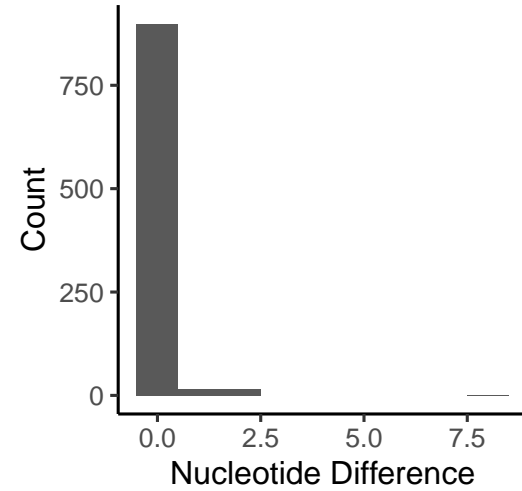
### TRBV10-2\*ap01

1307 sequences assigned  
1293 (98.9%) exact matches, in which:  
1272 unique CDR3  
13 unique J



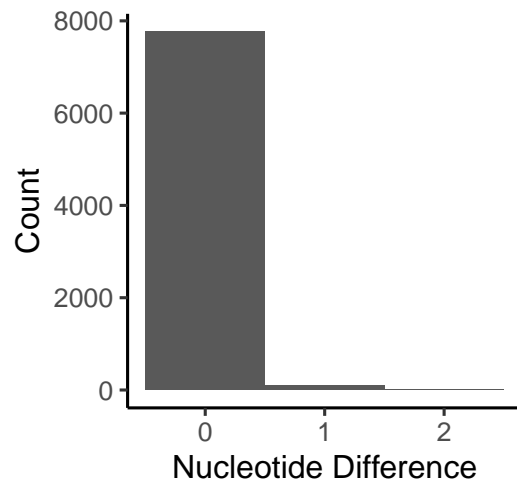
### TRBV13\*ap01

930 sequences assigned  
899 (96.7%) exact matches, in which:  
872 unique CDR3  
13 unique J



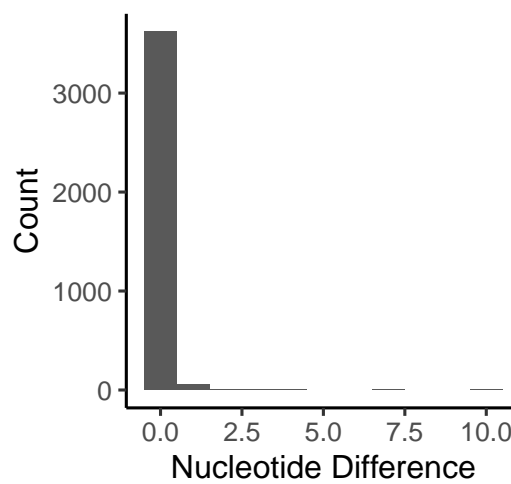
### TRBV20-1\*ap01

7873 sequences assigned  
7764 (98.6%) exact matches, in which:  
7617 unique CDR3  
13 unique J



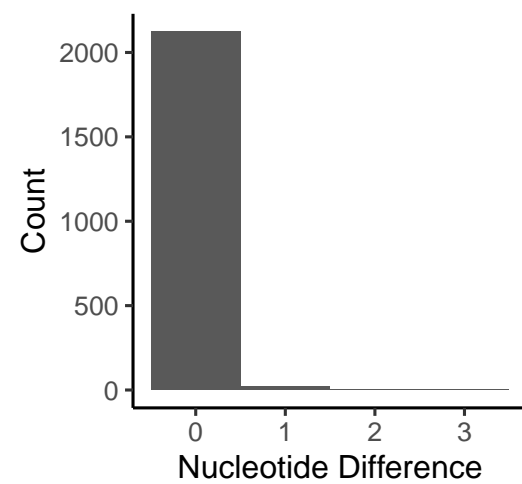
### TRBV10-3\*ap01

3677 sequences assigned  
3620 (98.4%) exact matches, in which:  
3537 unique CDR3  
13 unique J



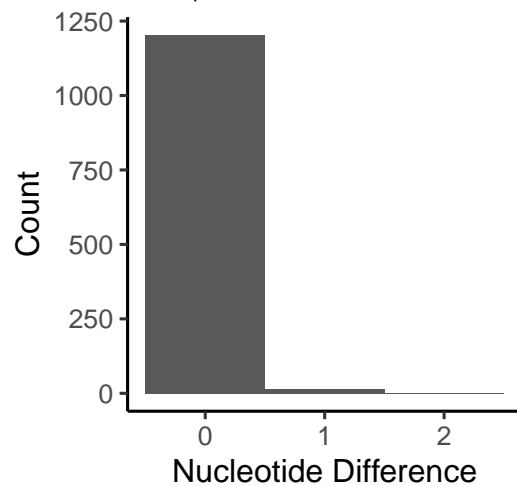
### TRBV14\*ap01

2146 sequences assigned  
2123 (98.9%) exact matches, in which:  
2089 unique CDR3  
13 unique J



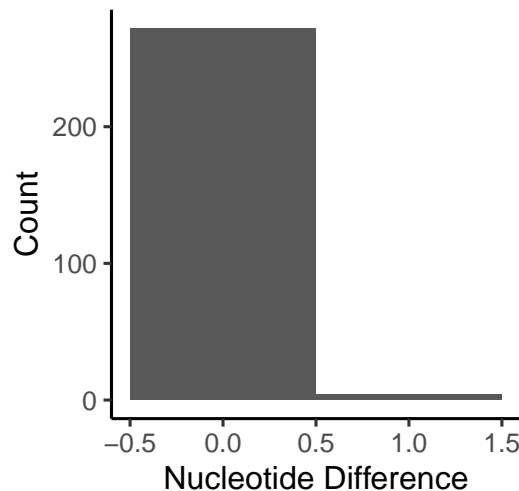
### TRBV20-1\*ap02

1218 sequences assigned  
1203 (98.8%) exact matches, in which:  
1180 unique CDR3  
13 unique J



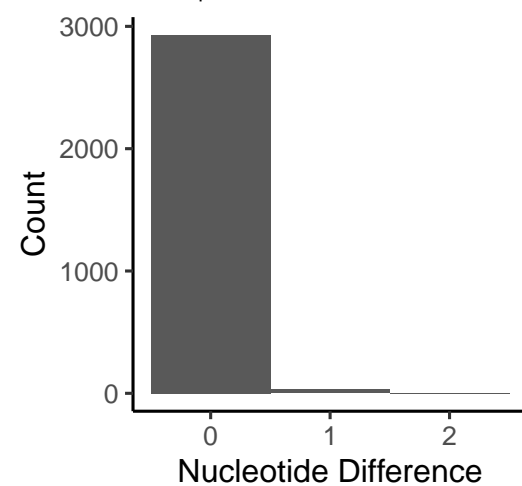
### TRBV1\*ap01

276 sequences assigned  
272 (98.6%) exact matches, in which:  
266 unique CDR3  
13 unique J



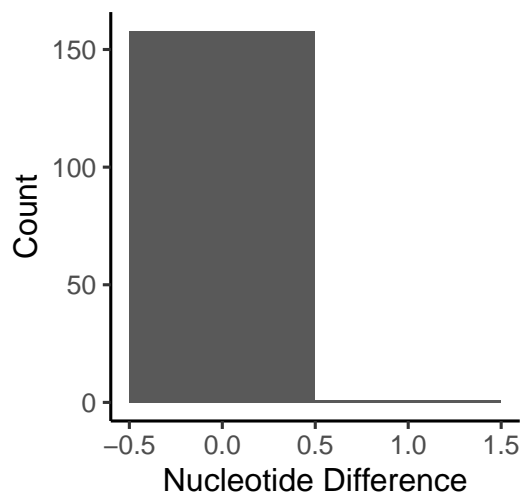
### TRBV15\*ap02

2962 sequences assigned  
2929 (98.9%) exact matches, in which:  
2860 unique CDR3  
13 unique J



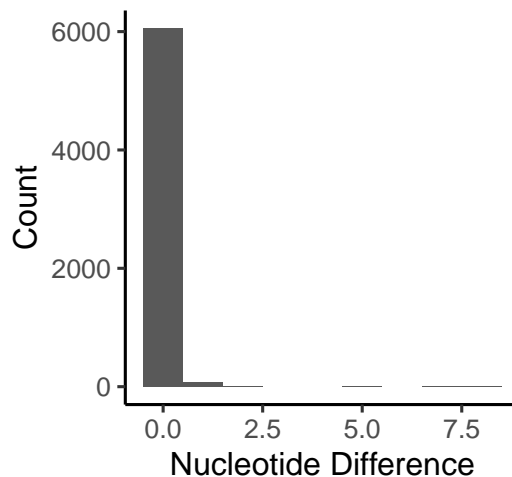
### TRBV16\*ap01

159 sequences assigned  
158 (99.4%) exact matches, in which:  
157 unique CDR3  
13 unique J



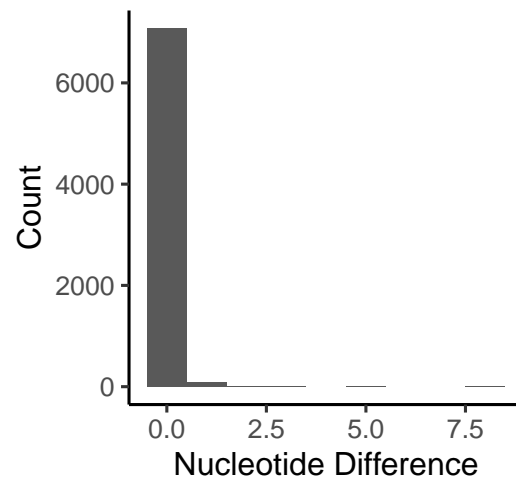
### TRBV2\*ap01

6136 sequences assigned  
6054 (98.7%) exact matches, in which:  
5938 unique CDR3  
13 unique J



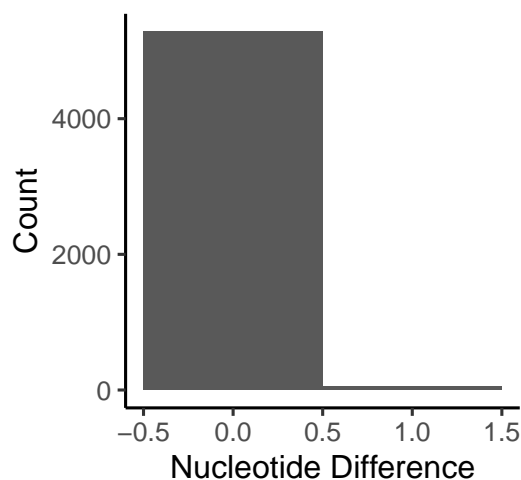
### TRBV30\*ap01

7180 sequences assigned  
7076 (98.6%) exact matches, in which:  
6997 unique CDR3  
13 unique J



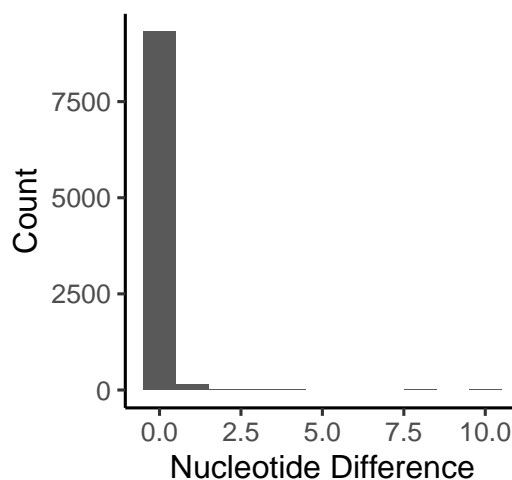
### TRBV18\*ap01

5331 sequences assigned  
5282 (99.1%) exact matches, in which:  
5207 unique CDR3  
13 unique J



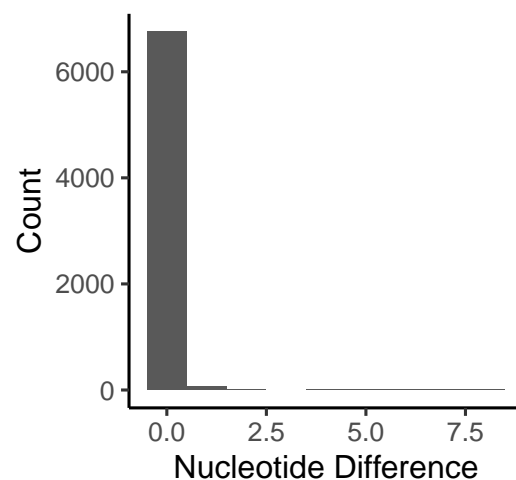
### TRBV27\*ap01

9469 sequences assigned  
9317 (98.4%) exact matches, in which:  
9064 unique CDR3  
13 unique J



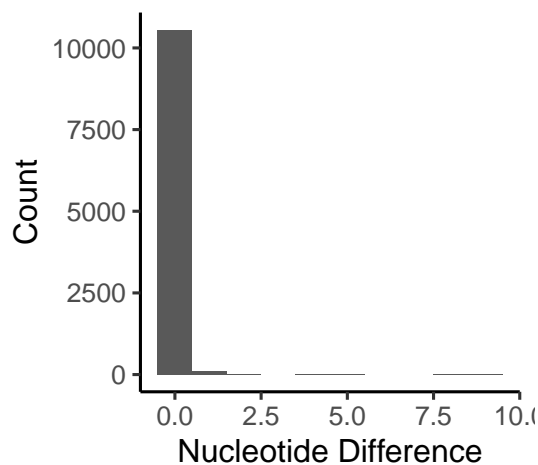
### TRBV9\*ap01

6827 sequences assigned  
6755 (98.9%) exact matches, in which:  
6625 unique CDR3  
13 unique J



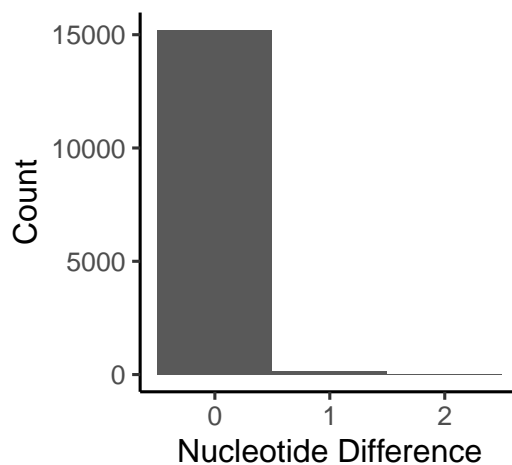
### TRBV19\*ap01

10674 sequences assigned  
10555 (98.9%) exact matches, in which:  
10397 unique CDR3  
13 unique J



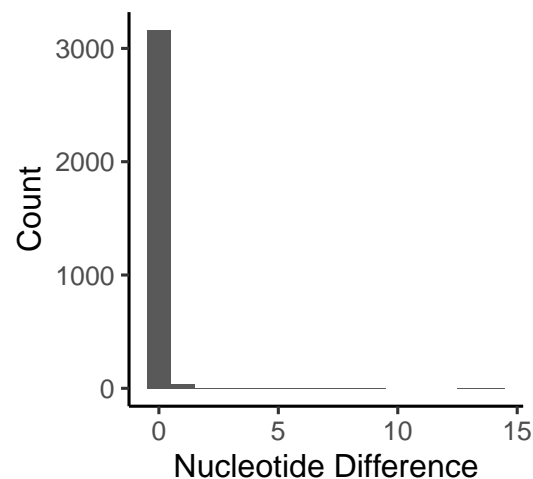
### TRBV28\*ap01

15396 sequences assigned  
15217 (98.8%) exact matches, in which:  
14865 unique CDR3  
13 unique J



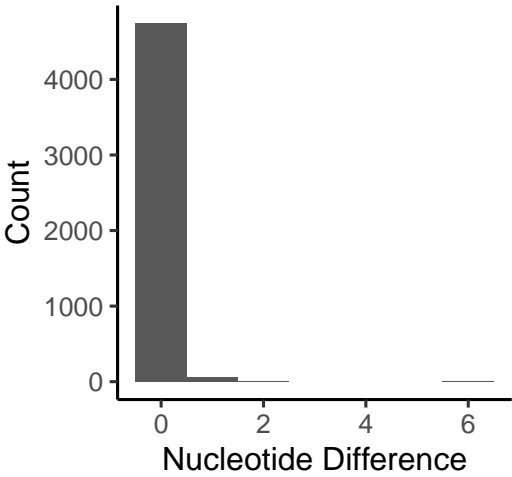
### TRBV21-1\*ap01

3217 sequences assigned  
3162 (98.3%) exact matches, in which:  
3102 unique CDR3  
13 unique J



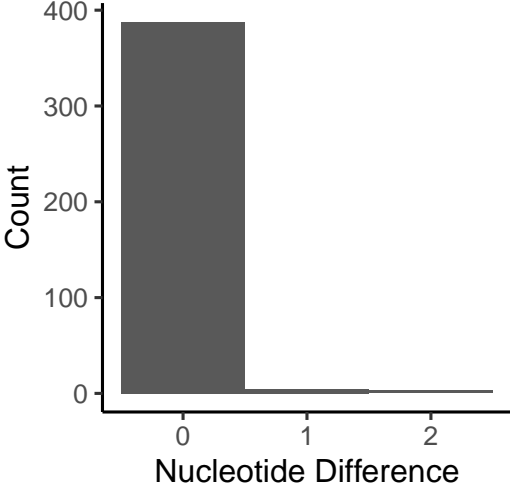
TRBV11-2\*ap01

4805 sequences assigned  
4741 (98.7%) exact matches, in which:  
4627 unique CDR3  
13 unique J



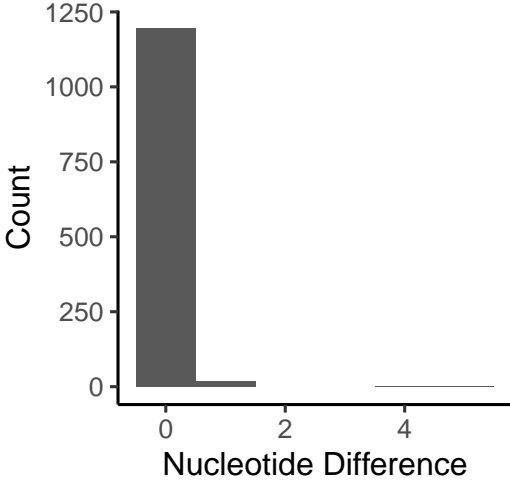
TRBV12-2\*ap01

396 sequences assigned  
388 (98%) exact matches, in which:  
383 unique CDR3  
13 unique J



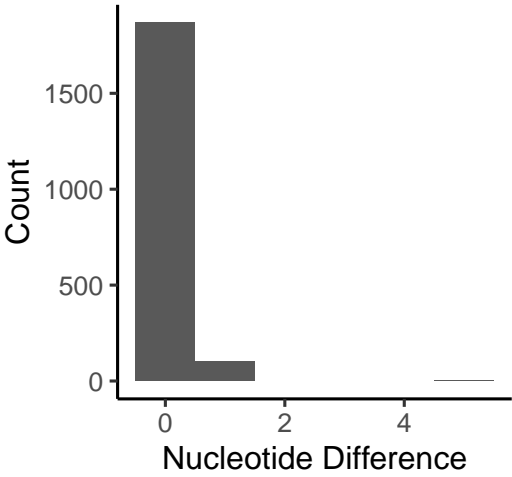
TRBV23-1\*ap01

1217 sequences assigned  
1195 (98.2%) exact matches, in which:  
1165 unique CDR3  
13 unique J



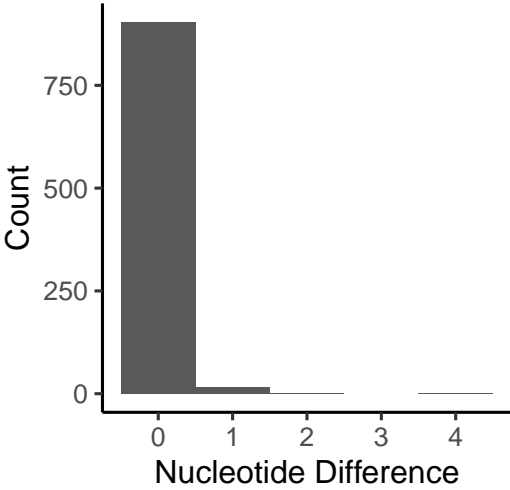
TRBV11-3\*ap01

1970 sequences assigned  
1868 (94.8%) exact matches, in which:  
1837 unique CDR3  
13 unique J



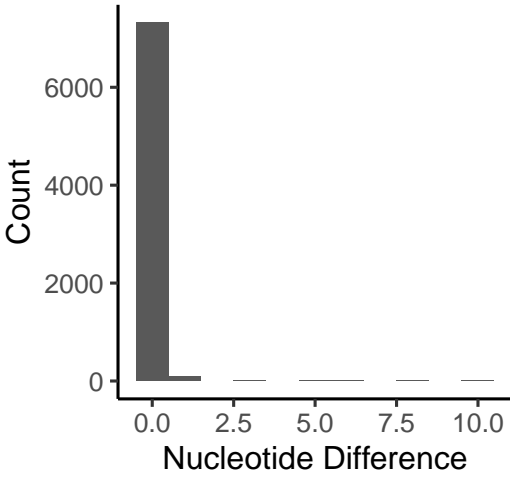
TRBV12-5\*ap01

921 sequences assigned  
904 (98.2%) exact matches, in which:  
891 unique CDR3  
13 unique J



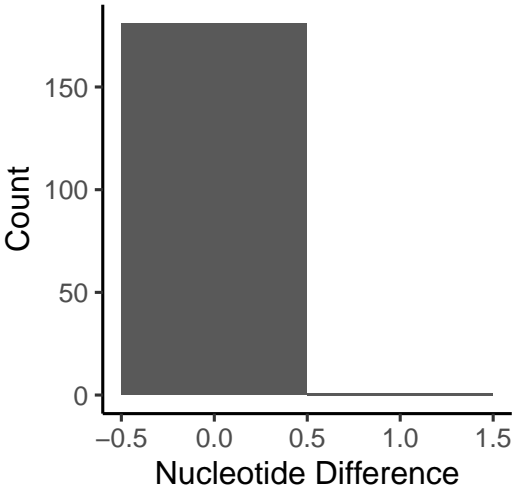
TRBV3-12\*ap01

7422 sequences assigned  
7319 (98.6%) exact matches, in which:  
7148 unique CDR3  
13 unique J



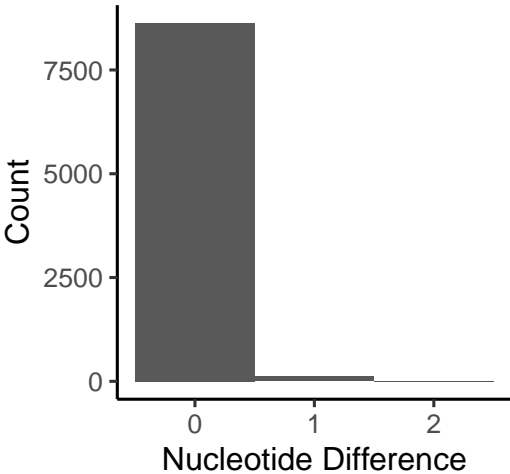
TRBV12-1\*ap01

182 sequences assigned  
181 (99.5%) exact matches, in which:  
179 unique CDR3  
13 unique J



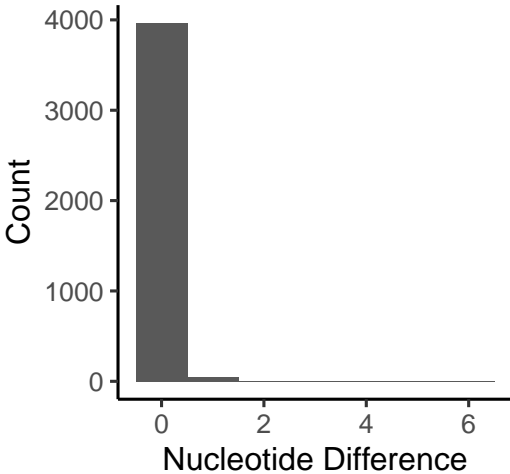
TRBV12-34\*ap01

8755 sequences assigned  
8630 (98.6%) exact matches, in which:  
8441 unique CDR3  
13 unique J



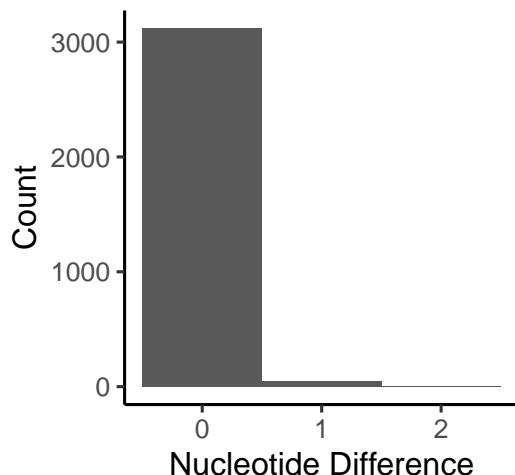
TRBV24-1\*ap01

4025 sequences assigned  
3965 (98.5%) exact matches, in which:  
3908 unique CDR3  
13 unique J



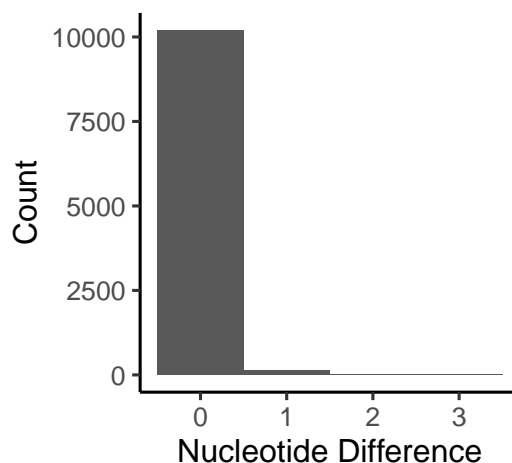
### TRBV4-1\*ap01

3164 sequences assigned  
3119 (98.6%) exact matches, in which:  
3062 unique CDR3  
13 unique J



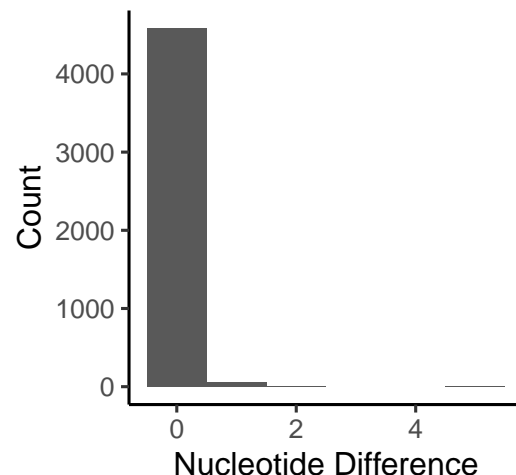
### TRBV5-1\*ap01

10328 sequences assigned  
10201 (98.8%) exact matches, in which:  
9940 unique CDR3  
13 unique J



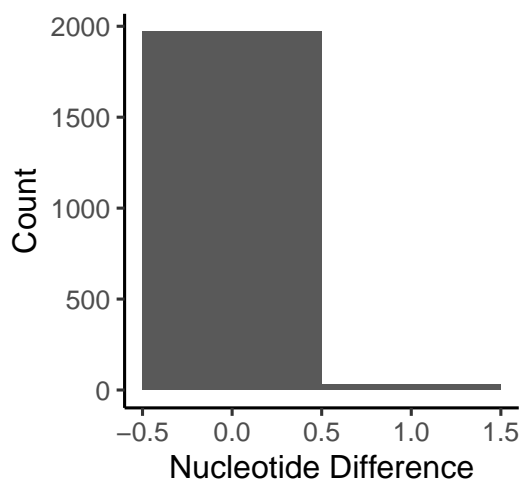
### TRBV5-4\*ap01

4642 sequences assigned  
4582 (98.7%) exact matches, in which:  
4469 unique CDR3  
13 unique J



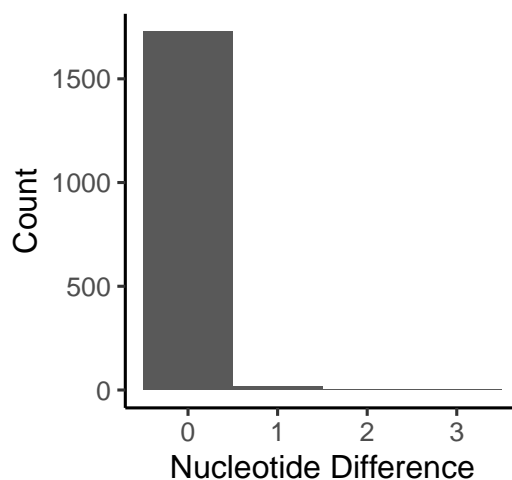
### TRBV4-2\*ap01

1999 sequences assigned  
1970 (98.5%) exact matches, in which:  
1927 unique CDR3  
13 unique J



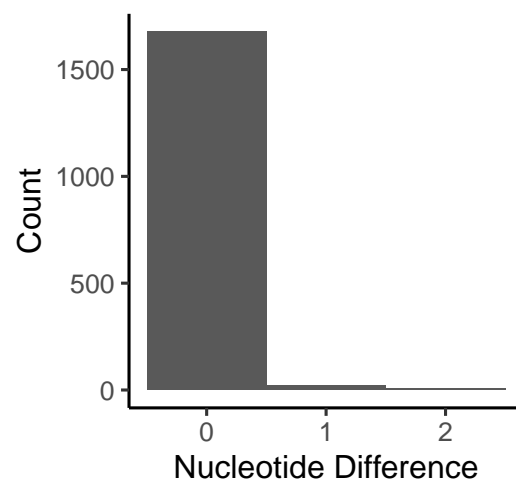
### TRBV25-1\*ap01

1747 sequences assigned  
1727 (98.9%) exact matches, in which:  
1698 unique CDR3  
13 unique J



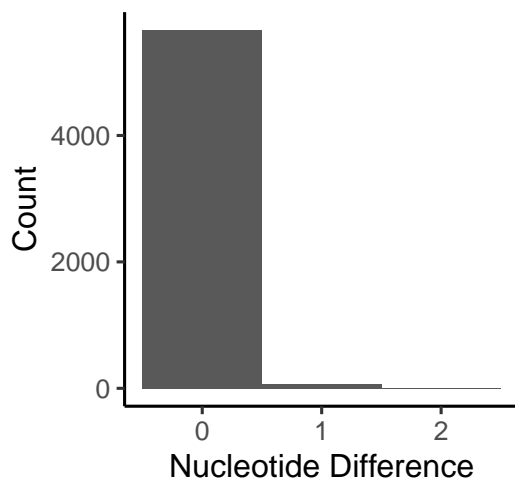
### TRBV5-5\*ap01

1702 sequences assigned  
1677 (98.5%) exact matches, in which:  
1660 unique CDR3  
13 unique J



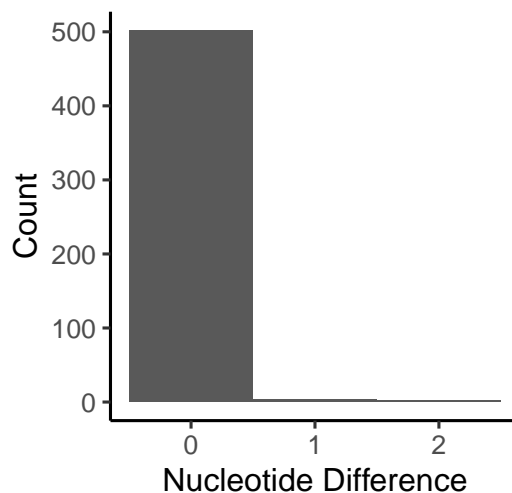
### TRBV4-3\*ap01

5739 sequences assigned  
5668 (98.8%) exact matches, in which:  
5556 unique CDR3  
13 unique J



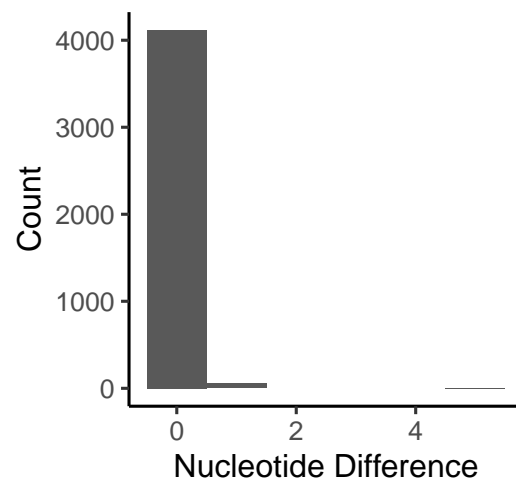
### TRBV5-3\*ap01

508 sequences assigned  
502 (98.8%) exact matches, in which:  
487 unique CDR3  
13 unique J



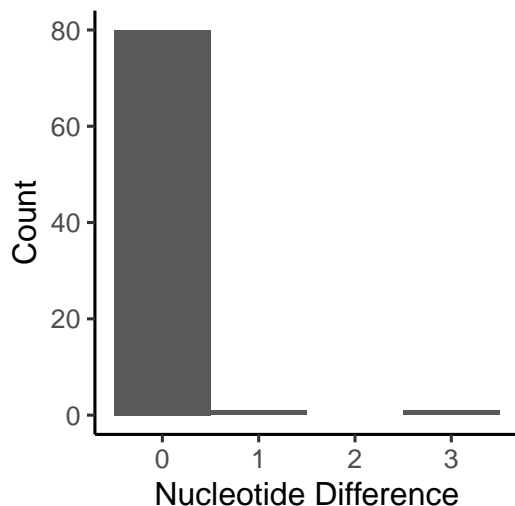
### TRBV5-6\*ap01

4172 sequences assigned  
4117 (98.7%) exact matches, in which:  
4029 unique CDR3  
13 unique J



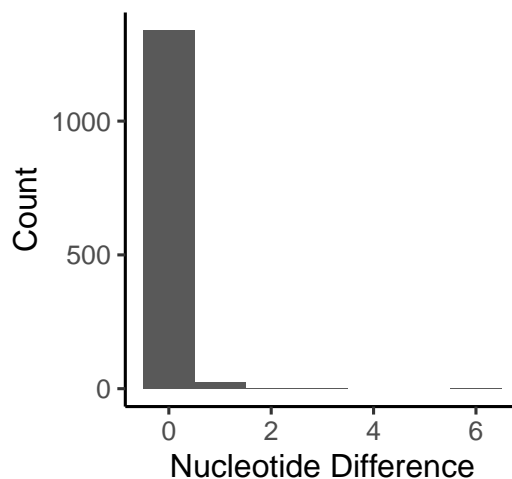
### TRBV5-7\*ap01

82 sequences assigned  
80 (97.6%) exact matches, in which:  
76 unique CDR3  
13 unique J



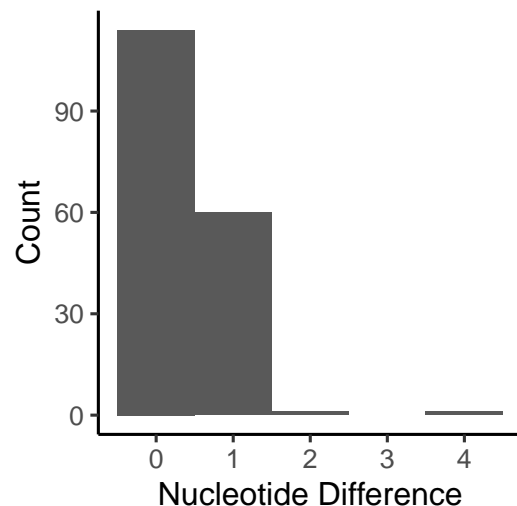
### TRBV6-4\*ap01

1367 sequences assigned  
1339 (98%) exact matches, in which:  
1321 unique CDR3  
13 unique J



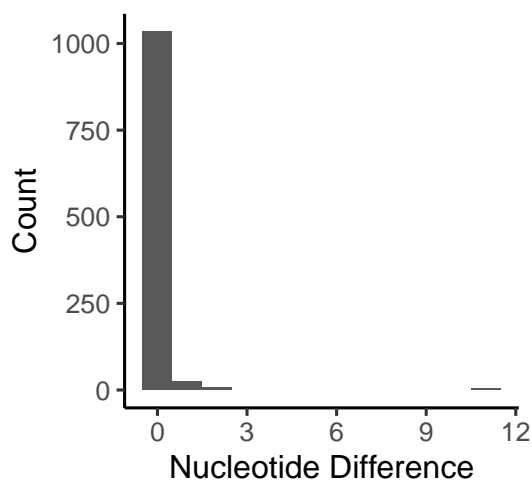
### TRBV6-9\*ap01

176 sequences assigned  
114 (64.8%) exact matches, in which:  
111 unique CDR3  
13 unique J



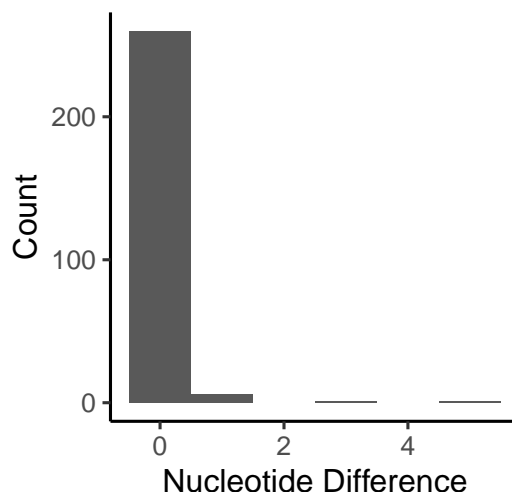
### TRBV5-8\*ap01

1067 sequences assigned  
1034 (96.9%) exact matches, in which:  
1016 unique CDR3  
13 unique J



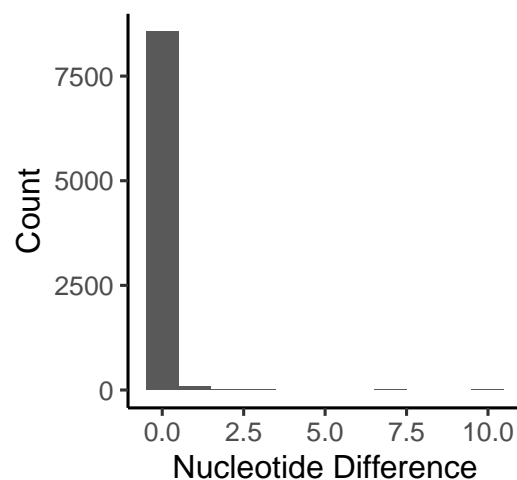
### TRBV6-7\*ap01

268 sequences assigned  
260 (97%) exact matches, in which:  
253 unique CDR3  
13 unique J



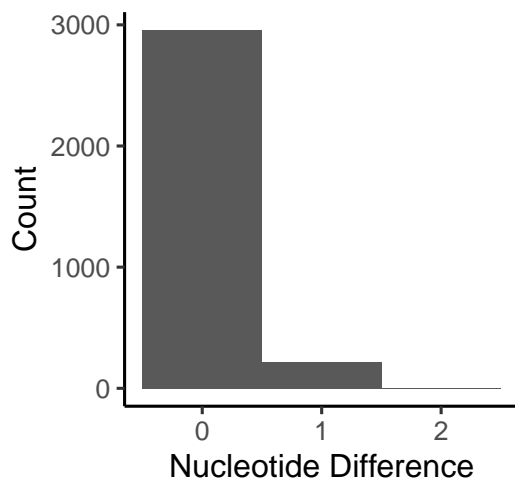
### TRBV6-23\*ap01

8657 sequences assigned  
8560 (98.9%) exact matches, in which:  
8402 unique CDR3  
13 unique J



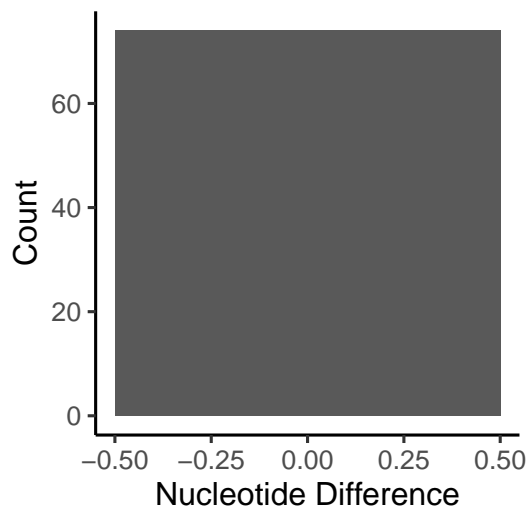
### TRBV6-1\*ap01

3175 sequences assigned  
2957 (93.1%) exact matches, in which:  
2889 unique CDR3  
13 unique J



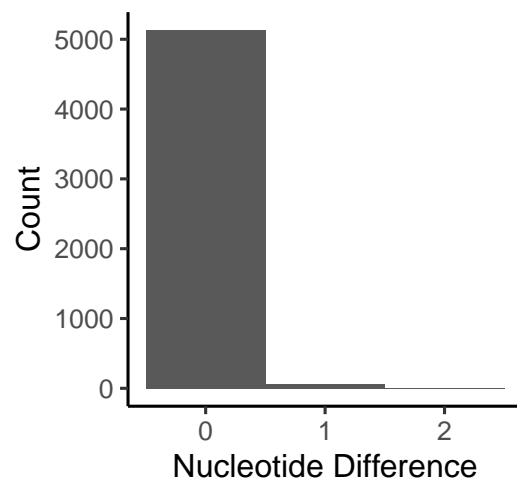
### TRBV6-8\*ap01

74 sequences assigned  
74 (100%) exact matches, in which:  
74 unique CDR3  
12 unique J



### TRBV6-56\*ap01

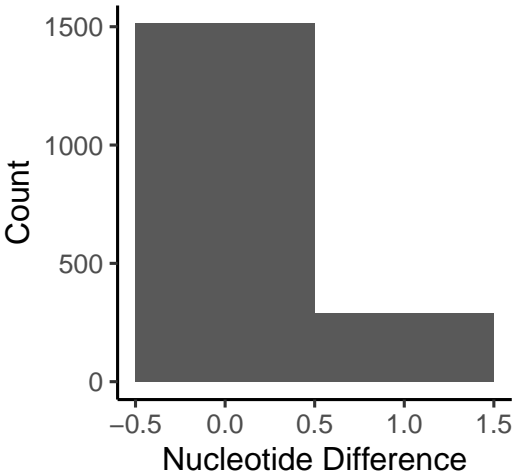
5195 sequences assigned  
5132 (98.8%) exact matches, in which:  
5014 unique CDR3  
13 unique J





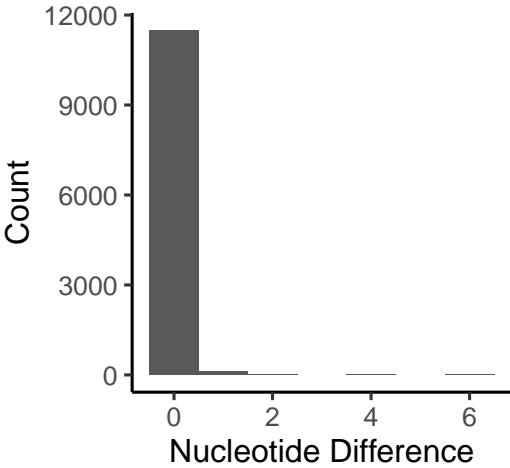
TRBV6-56\*ap02

1803 sequences assigned  
1514 (84%) exact matches, in which:  
1492 unique CDR3  
13 unique J



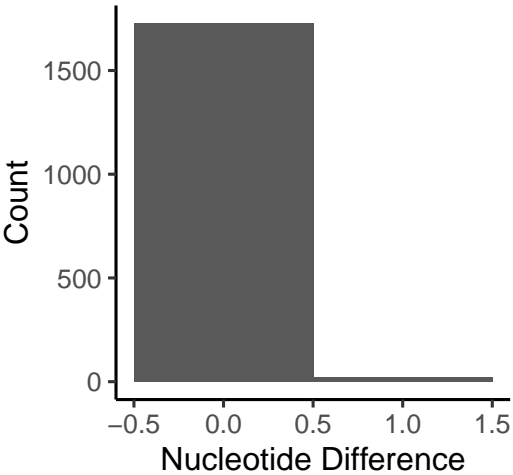
TRBV7-2\*ap01

11628 sequences assigned  
11496 (98.9%) exact matches, in which:  
11284 unique CDR3  
13 unique J



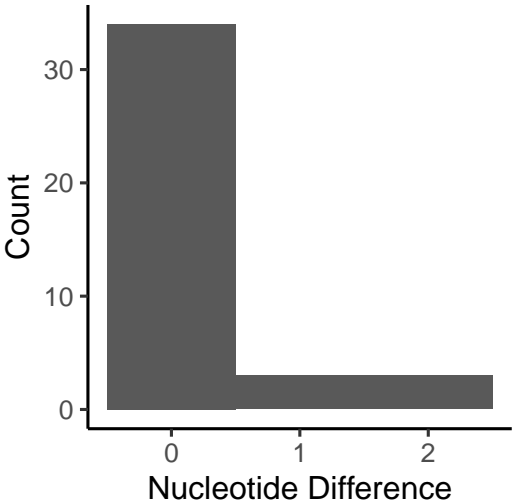
TRBV7-6\*ap01

1747 sequences assigned  
1727 (98.9%) exact matches, in which:  
1687 unique CDR3  
13 unique J



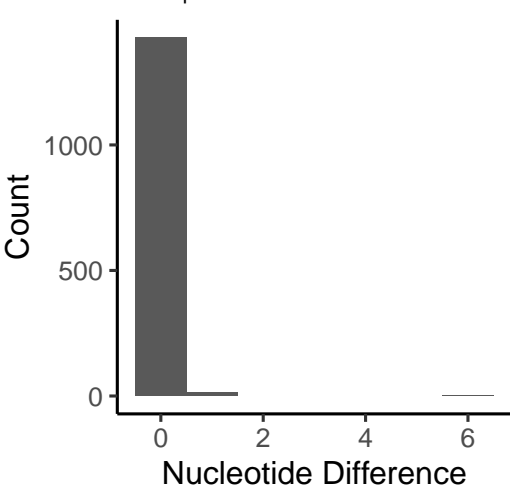
TRBV7-1\*ap01\_G291C\_T

40 sequences assigned  
34 (85%) exact matches, in which:  
33 unique CDR3  
8 unique J



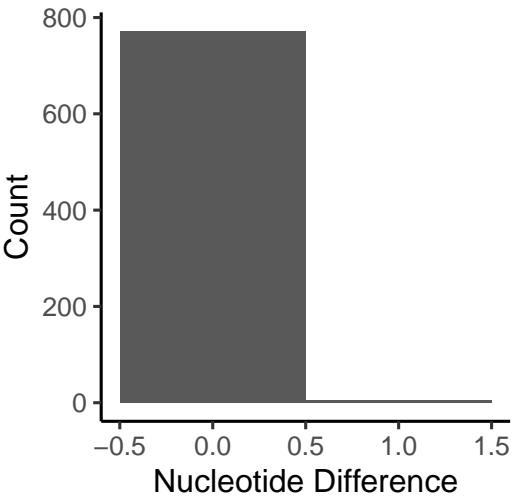
TRBV7-3\*ap02

1442 sequences assigned  
1427 (99%) exact matches, in which:  
1394 unique CDR3  
13 unique J



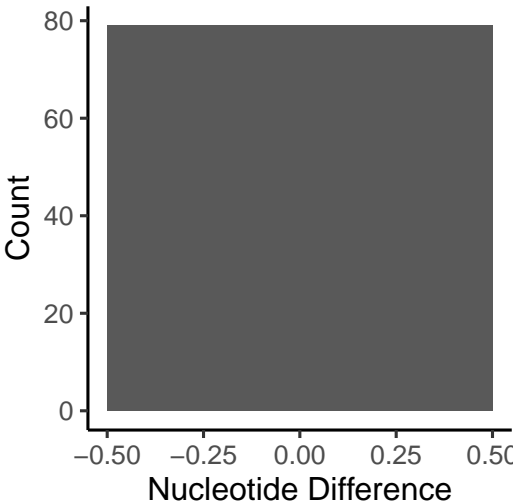
TRBV7-7\*ap01

777 sequences assigned  
772 (99.4%) exact matches, in which:  
759 unique CDR3  
13 unique J



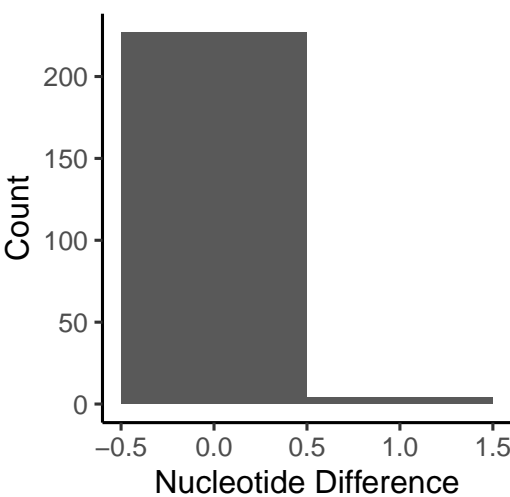
TRBV7-1\*ap01\_G291C\_T

79 sequences assigned  
79 (100%) exact matches, in which:  
78 unique CDR3  
11 unique J



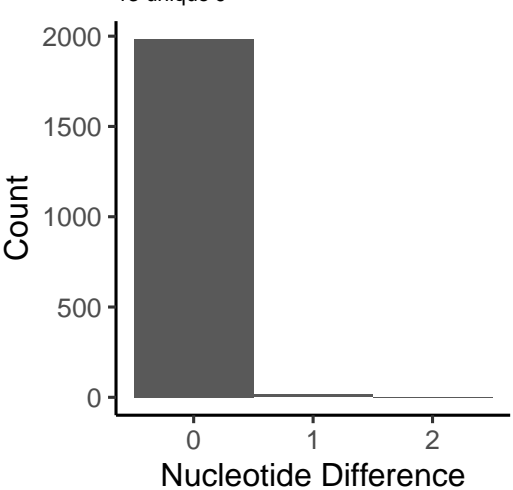
TRBV7-4\*ap01

231 sequences assigned  
227 (98.3%) exact matches, in which:  
223 unique CDR3  
13 unique J



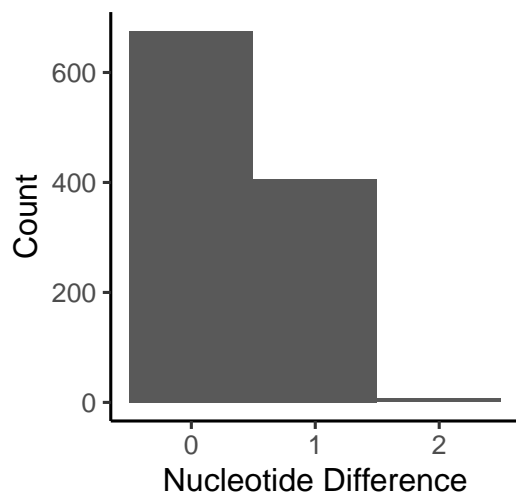
TRBV7-8\*ap01

2002 sequences assigned  
1984 (99.1%) exact matches, in which:  
1944 unique CDR3  
13 unique J



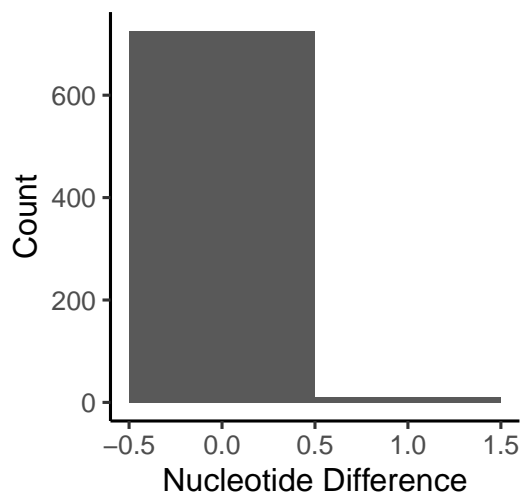
### TRBV7–8\*ap03

1089 sequences assigned  
676 (62.1%) exact matches, in which:  
661 unique CDR3  
13 unique J



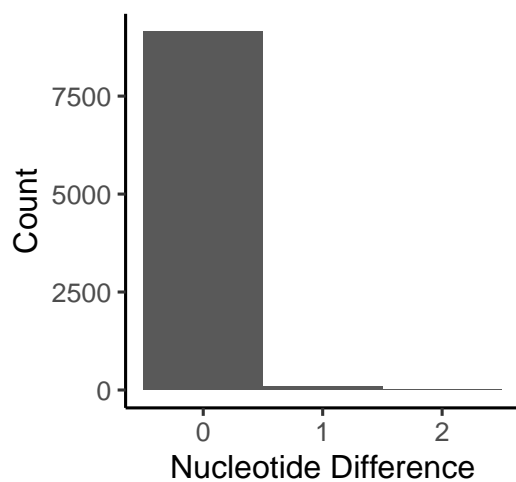
### TRBV29–1\*ap02

737 sequences assigned  
726 (98.5%) exact matches, in which:  
712 unique CDR3  
13 unique J



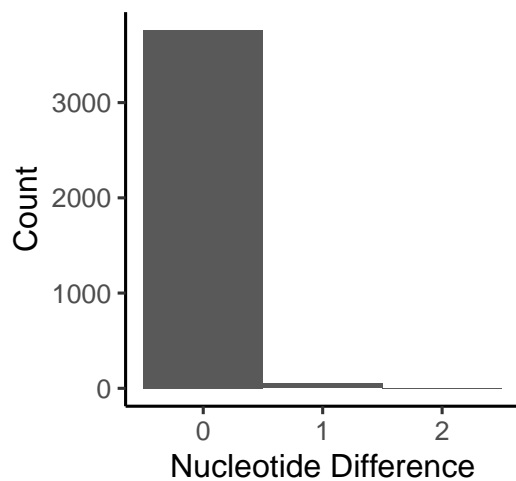
### TRBV7–9\*ap01

9231 sequences assigned  
9143 (99%) exact matches, in which:  
8986 unique CDR3  
13 unique J

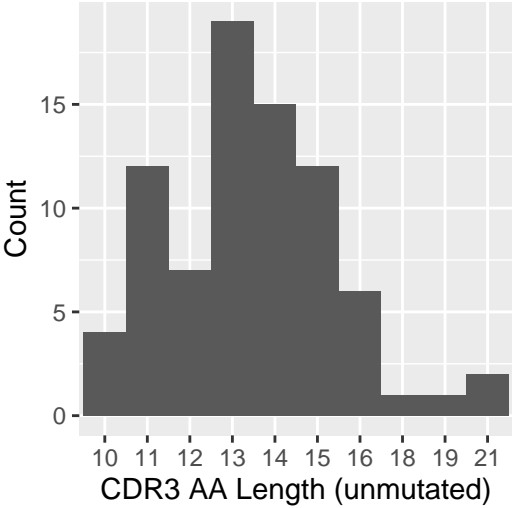


### TRBV29–1\*ap01

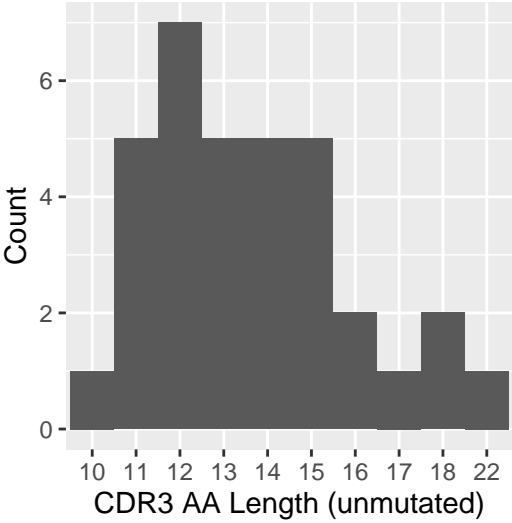
3816 sequences assigned  
3762 (98.6%) exact matches, in which:  
3702 unique CDR3  
13 unique J



TRBV7-1\*ap01\_G291C\_T296C\_C314T



TRBV7-1\*ap01\_G291C\_T296C





[illegible]