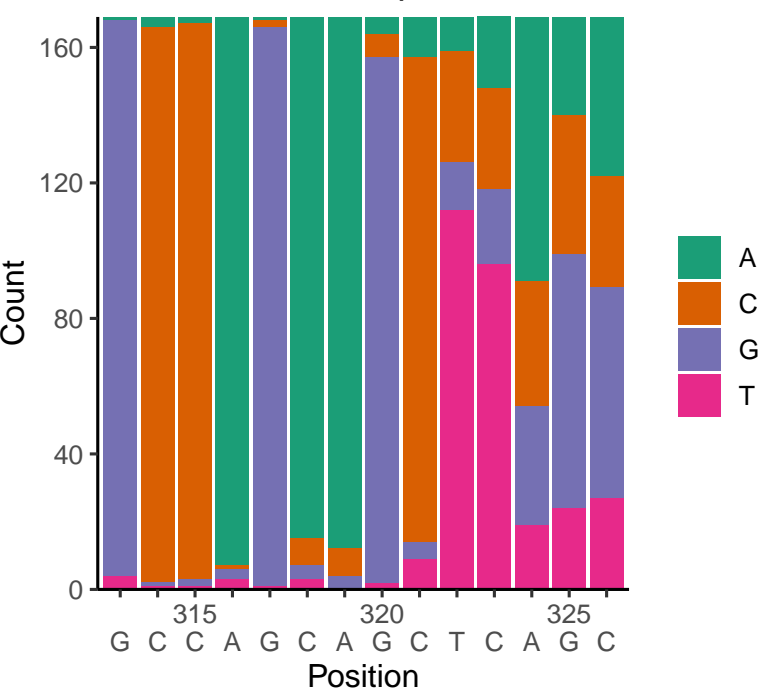
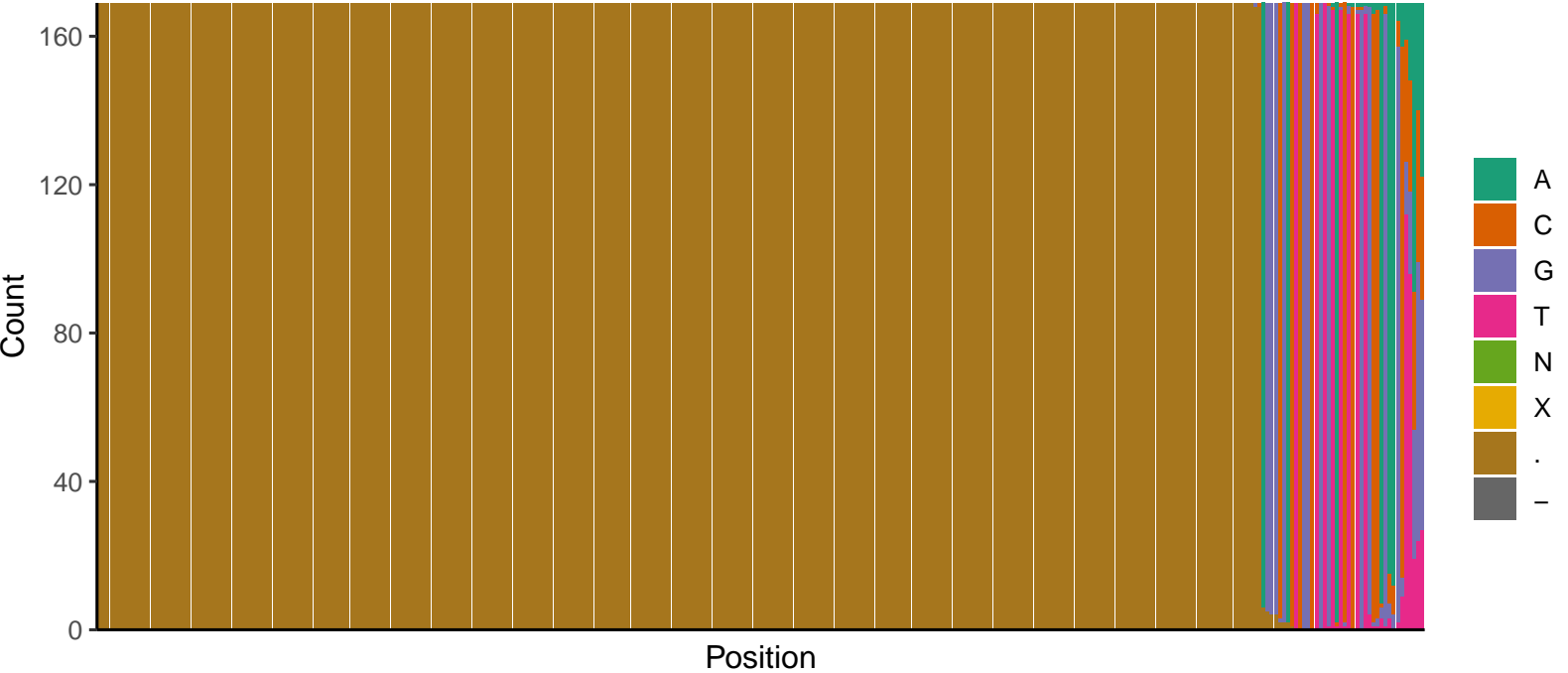


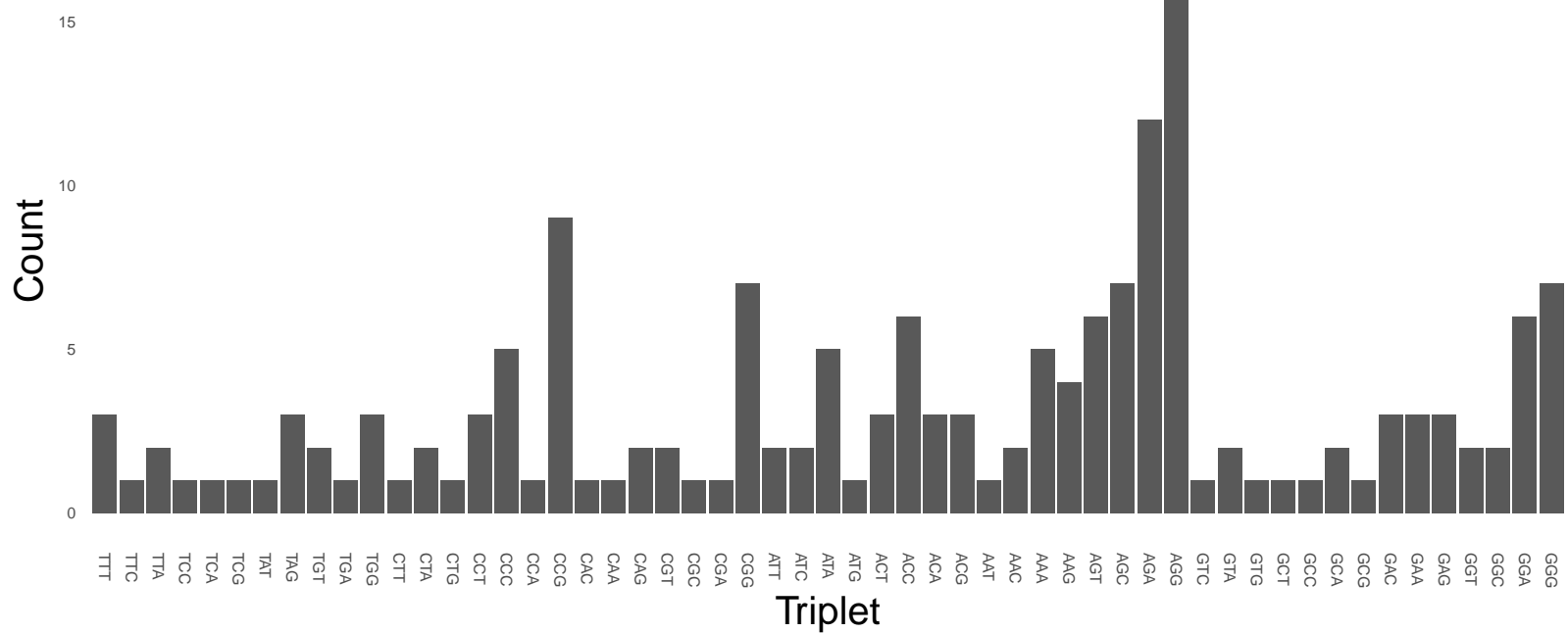
Gene TRBV7-1\*ap01\_G291C\_T296C



Gene TRBV7-1\*ap01\_G291C\_T296C

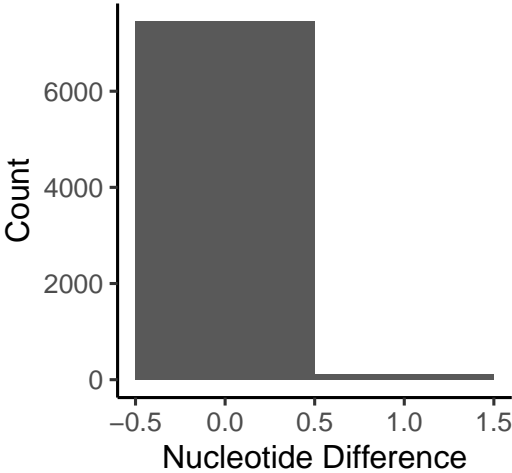


TRBV7-1\*ap01\_G291C\_T296C- Final 3 nucleotides as a triplet



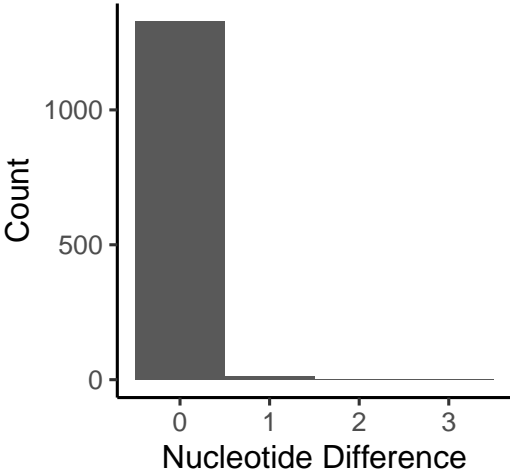
TRBV20-1\*ap01

7557 sequences assigned  
7452 (98.6%) exact matches, in which:  
7357 unique CDR3  
13 unique J



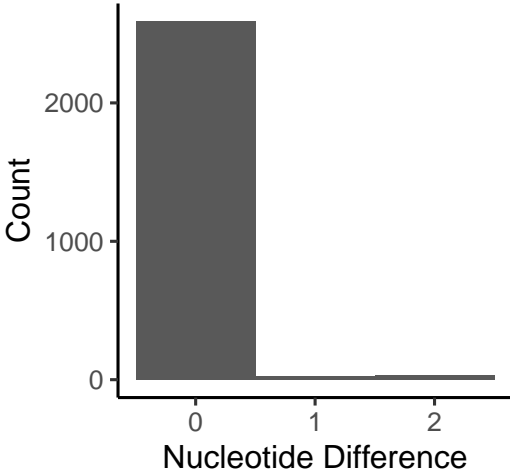
TRBV10-2\*ap01

1344 sequences assigned  
1328 (98.8%) exact matches, in which:  
1310 unique CDR3  
13 unique J



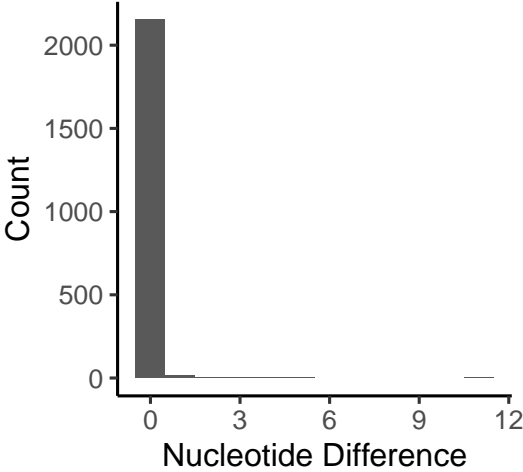
TRBV13\*ap01

2647 sequences assigned  
2589 (97.8%) exact matches, in which:  
2504 unique CDR3  
13 unique J



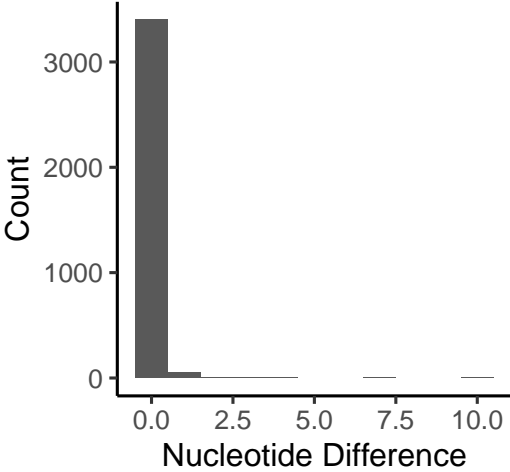
TRBV10-1\*ap01

2175 sequences assigned  
2153 (99%) exact matches, in which:  
2122 unique CDR3  
13 unique J



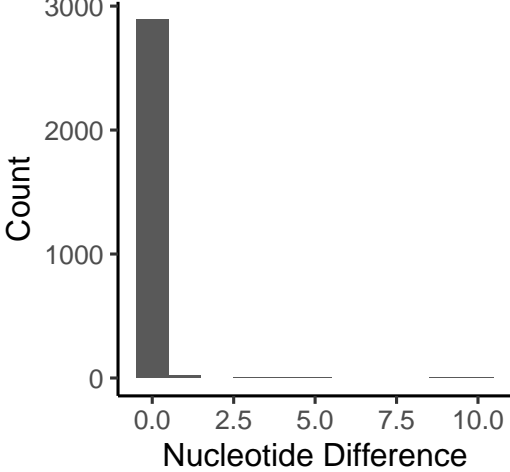
TRBV10-3\*ap01

3456 sequences assigned  
3401 (98.4%) exact matches, in which:  
3334 unique CDR3  
13 unique J



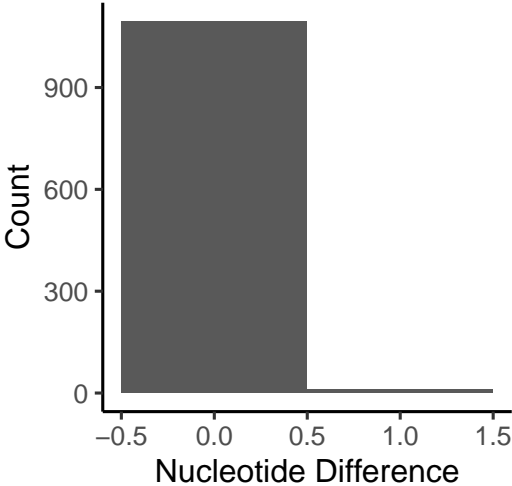
TRBV14\*ap01

2917 sequences assigned  
2890 (99.1%) exact matches, in which:  
2858 unique CDR3  
13 unique J



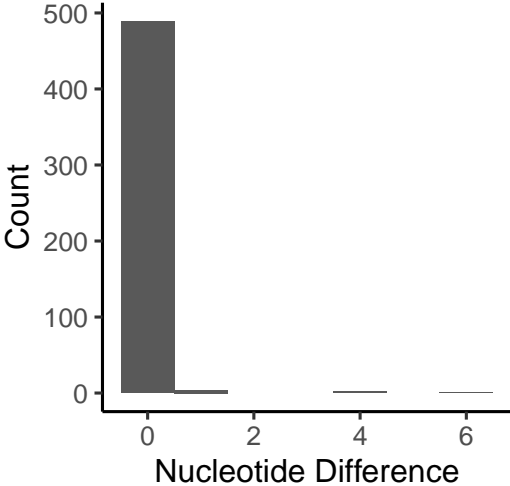
TRBV20-1\*ap02

1105 sequences assigned  
1095 (99.1%) exact matches, in which:  
1079 unique CDR3  
13 unique J



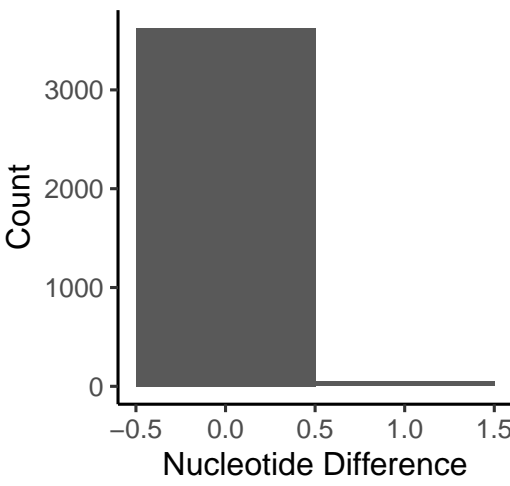
TRBV1\*ap01

496 sequences assigned  
489 (98.6%) exact matches, in which:  
481 unique CDR3  
13 unique J



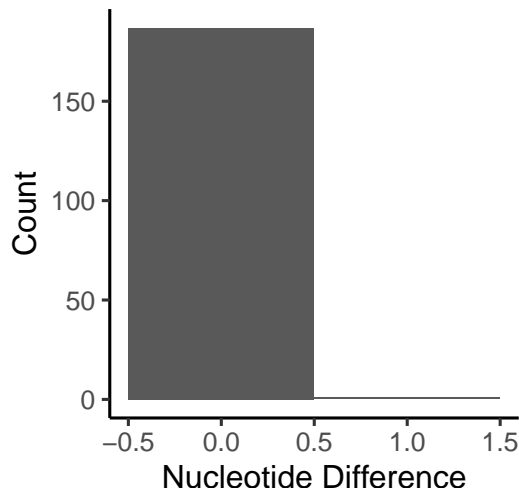
TRBV15\*ap02

3676 sequences assigned  
3626 (98.6%) exact matches, in which:  
3558 unique CDR3  
13 unique J



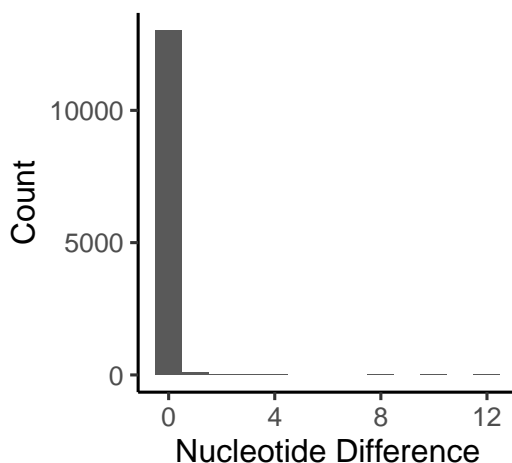
### TRBV16\*ap01

188 sequences assigned  
187 (99.5%) exact matches, in which:  
187 unique CDR3  
13 unique J



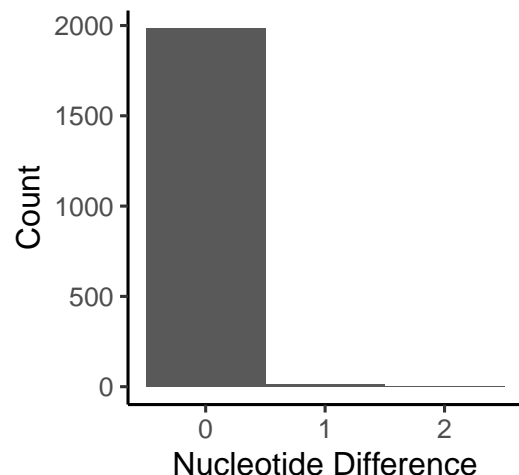
### TRBV19\*ap01

13144 sequences assigned  
13032 (99.1%) exact matches, in which:  
12938 unique CDR3  
13 unique J



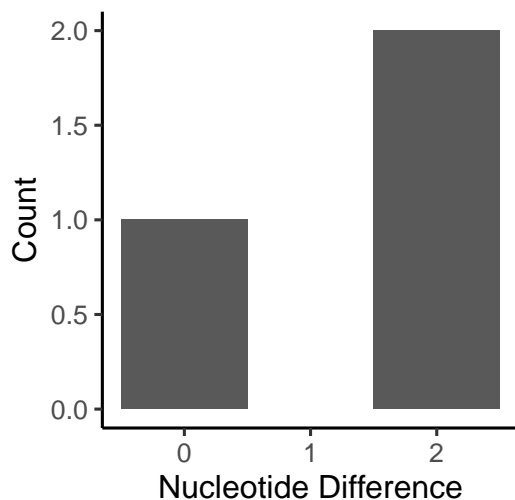
### TRBV28\*ap01

1999 sequences assigned  
1984 (99.2%) exact matches, in which:  
1963 unique CDR3  
13 unique J



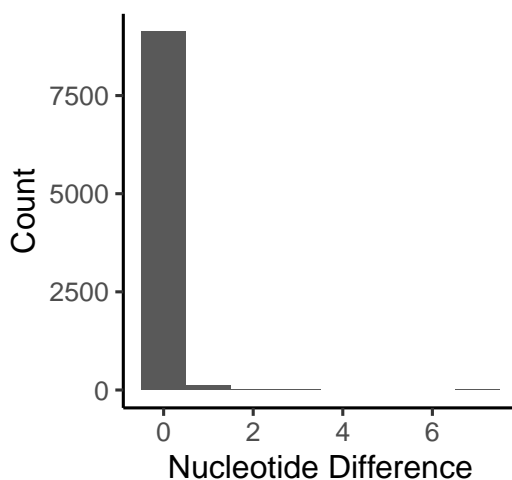
### TRBV17\*ap01

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



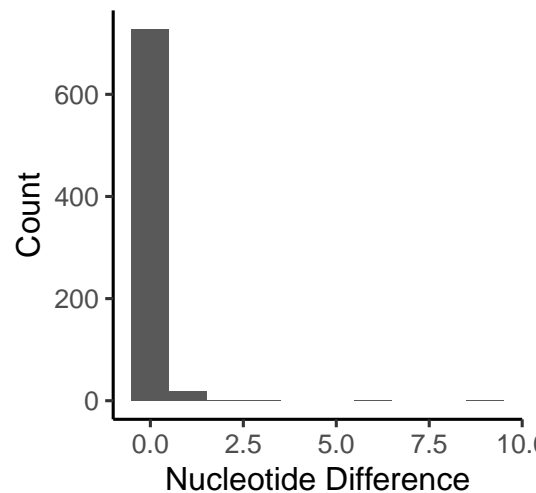
### TRBV2\*ap01

9241 sequences assigned  
9126 (98.8%) exact matches, in which:  
8919 unique CDR3  
13 unique J



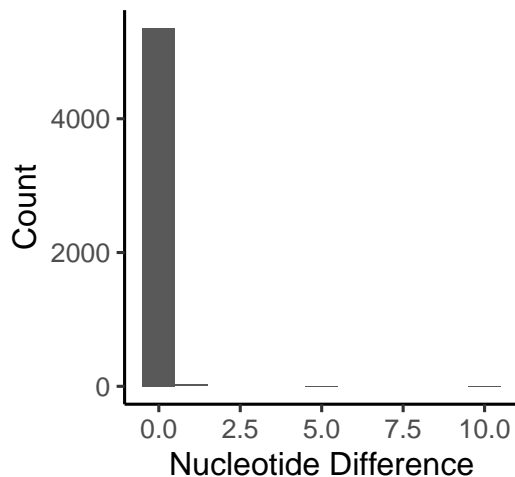
### TRBV30\*ap02

750 sequences assigned  
728 (97.1%) exact matches, in which:  
716 unique CDR3  
13 unique J



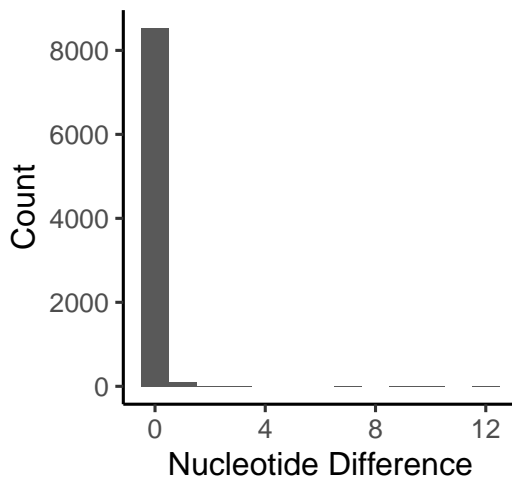
### TRBV18\*ap01

5386 sequences assigned  
5356 (99.4%) exact matches, in which:  
5322 unique CDR3  
13 unique J



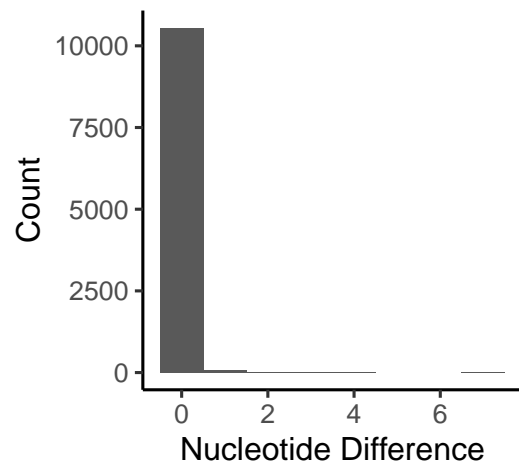
### TRBV27\*ap01

8642 sequences assigned  
8532 (98.7%) exact matches, in which:  
8379 unique CDR3  
14 unique J



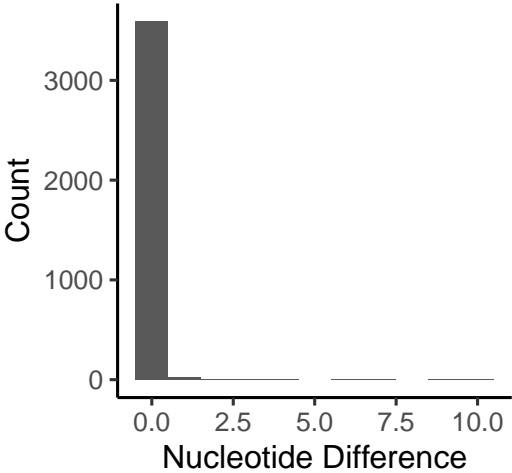
### TRBV9\*ap01

10629 sequences assigned  
10552 (99.3%) exact matches, in which:  
10408 unique CDR3  
13 unique J



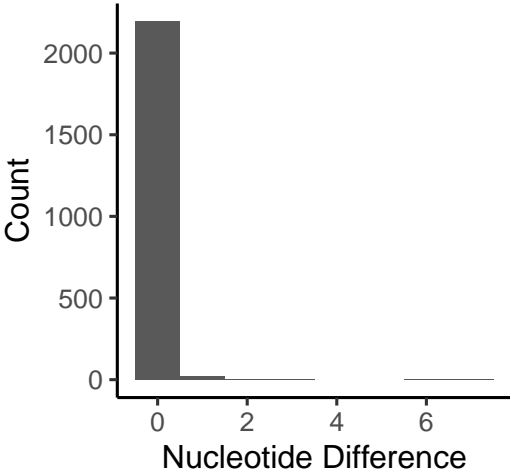
TRBV21-1\*ap01

3637 sequences assigned  
3591 (98.7%) exact matches, in which:  
3562 unique CDR3  
13 unique J



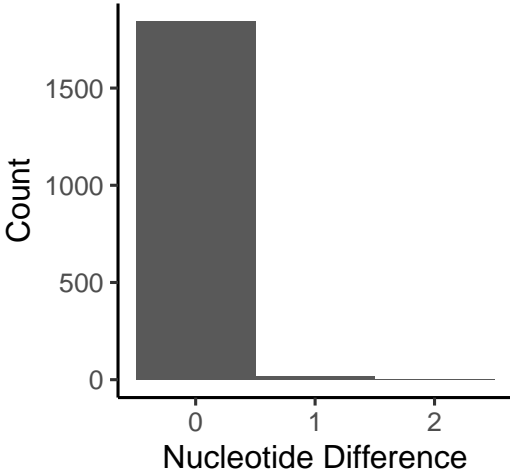
TRBV11-3\*ap01

2220 sequences assigned  
2194 (98.8%) exact matches, in which:  
2167 unique CDR3  
13 unique J



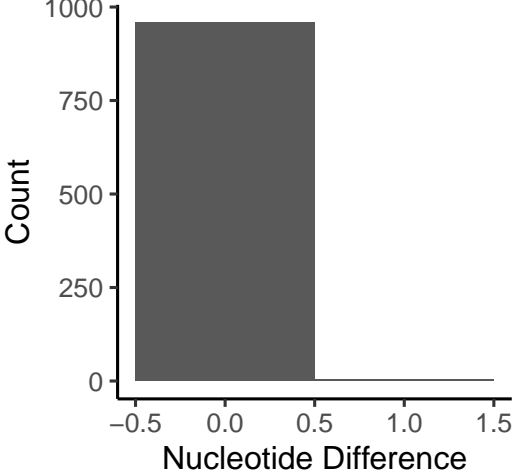
TRBV12-5\*ap01

1862 sequences assigned  
1843 (99%) exact matches, in which:  
1818 unique CDR3  
13 unique J



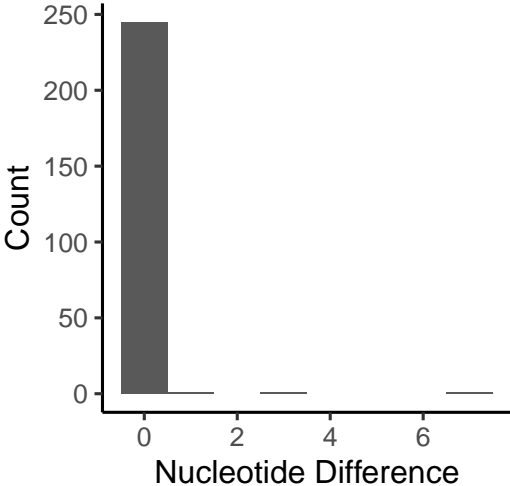
TRBV11-1\*ap01

963 sequences assigned  
958 (99.5%) exact matches, in which:  
944 unique CDR3  
13 unique J



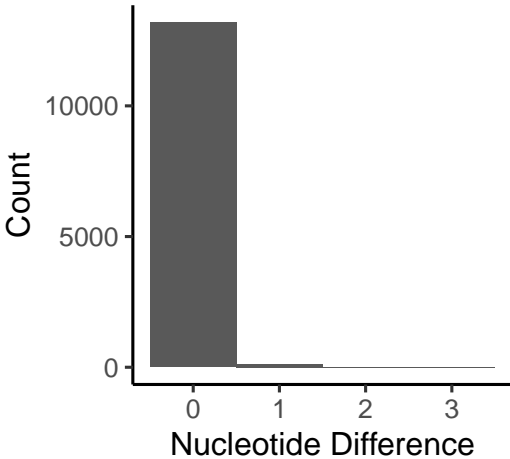
TRBV12-1\*ap01

248 sequences assigned  
245 (98.8%) exact matches, in which:  
243 unique CDR3  
13 unique J



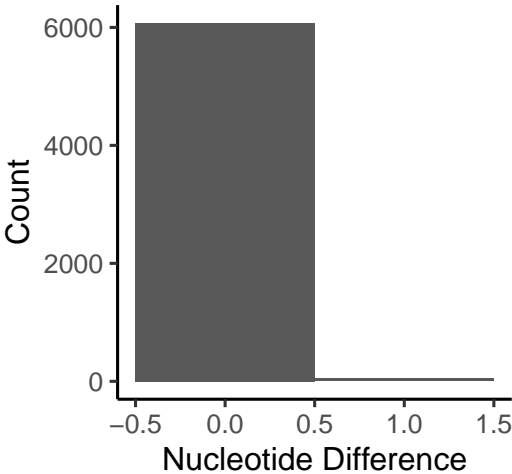
TRBV12-34\*ap01

13324 sequences assigned  
13191 (99%) exact matches, in which:  
12997 unique CDR3  
13 unique J



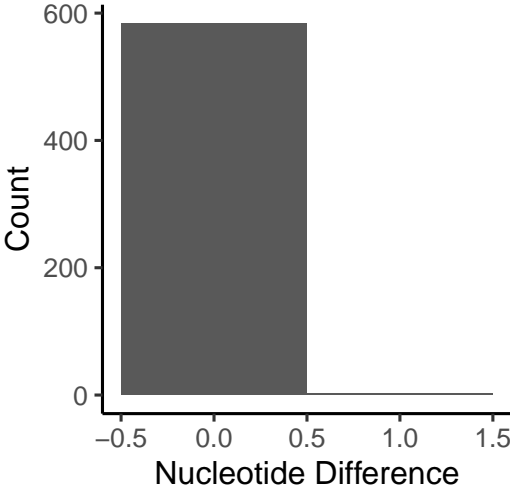
TRBV11-2\*ap01

6119 sequences assigned  
6074 (99.3%) exact matches, in which:  
6013 unique CDR3  
13 unique J



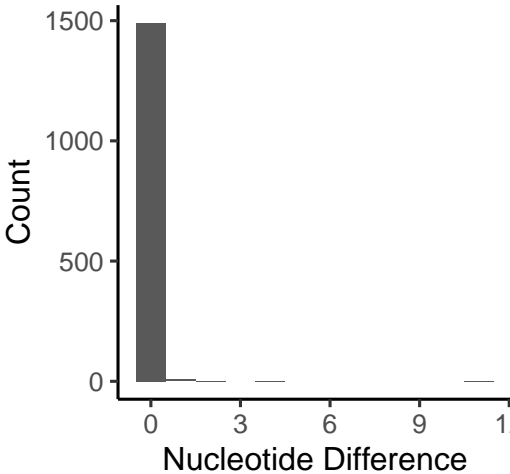
TRBV12-2\*ap01

586 sequences assigned  
584 (99.7%) exact matches, in which:  
574 unique CDR3  
13 unique J



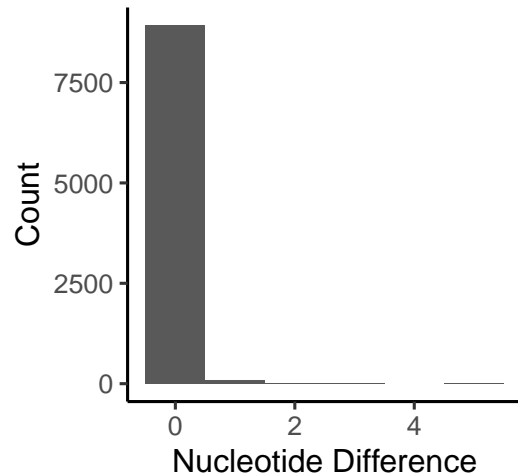
TRBV23-1\*ap01

1501 sequences assigned  
1490 (99.3%) exact matches, in which:  
1470 unique CDR3  
13 unique J



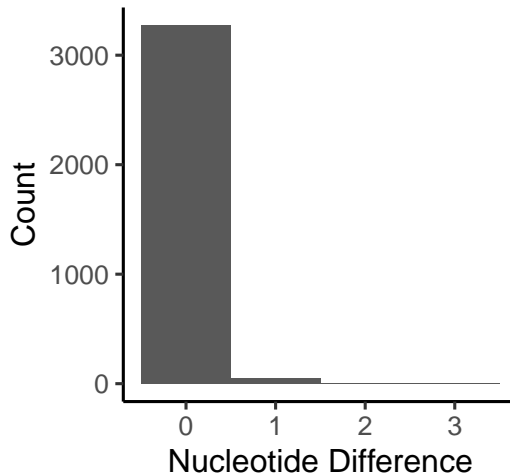
### TRBV3-12\*ap01

9016 sequences assigned  
8923 (99%) exact matches, in which:  
8775 unique CDR3  
13 unique J



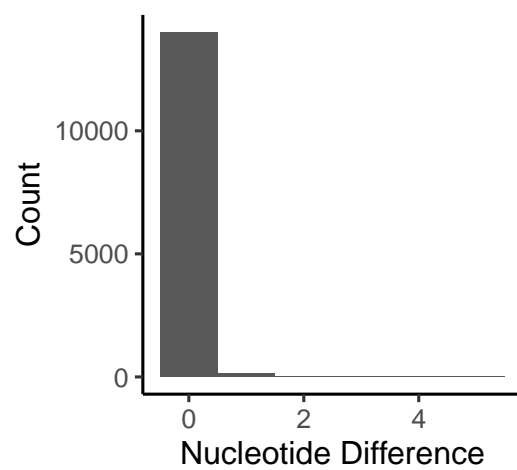
### TRBV4-2\*ap01

3324 sequences assigned  
3272 (98.4%) exact matches, in which:  
3220 unique CDR3  
13 unique J



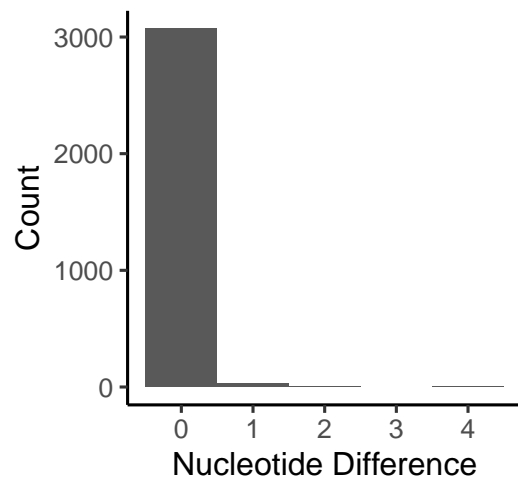
### TRBV5-1\*ap01

14172 sequences assigned  
14009 (98.8%) exact matches, in which:  
13681 unique CDR3  
13 unique J



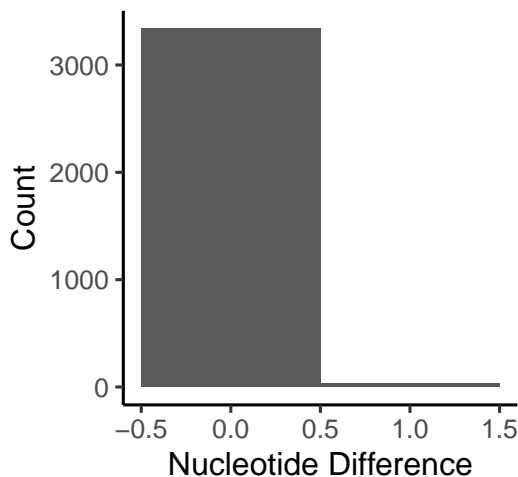
### TRBV24-1\*ap01

3103 sequences assigned  
3071 (99%) exact matches, in which:  
3022 unique CDR3  
13 unique J



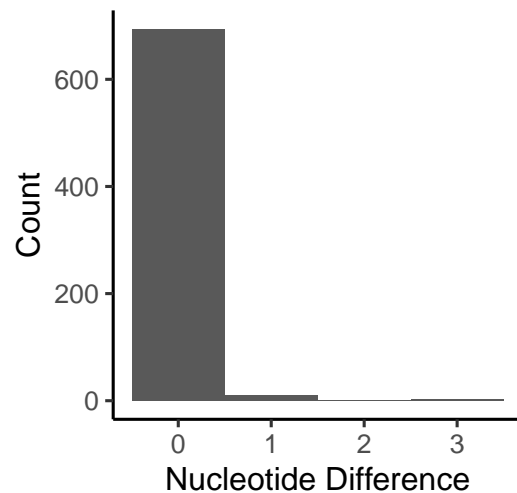
### TRBV4-3\*ap01

3369 sequences assigned  
3338 (99.1%) exact matches, in which:  
3281 unique CDR3  
13 unique J



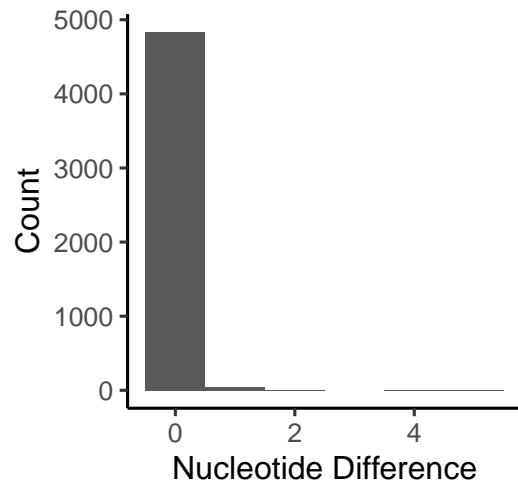
### TRBV5-3\*ap01

708 sequences assigned  
694 (98%) exact matches, in which:  
688 unique CDR3  
13 unique J



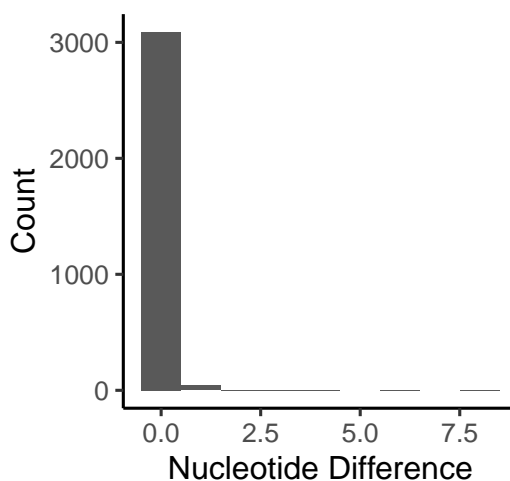
### TRBV4-1\*ap01

4887 sequences assigned  
4834 (98.9%) exact matches, in which:  
4717 unique CDR3  
13 unique J



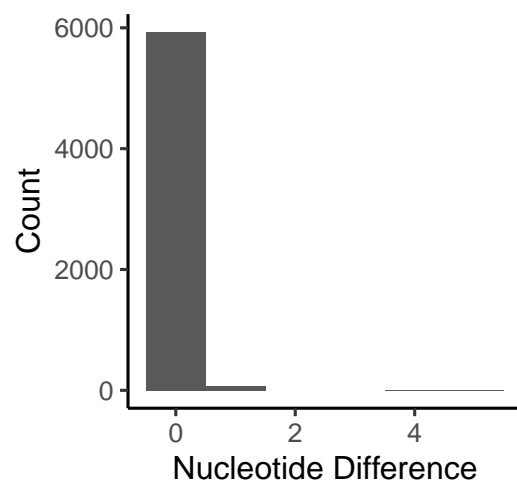
### TRBV25-1\*ap01

3138 sequences assigned  
3089 (98.4%) exact matches, in which:  
3040 unique CDR3  
13 unique J



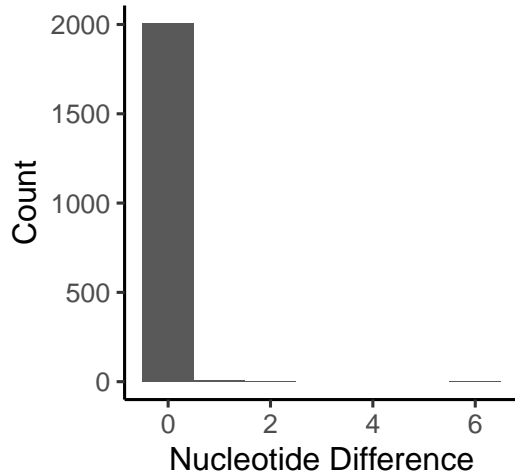
### TRBV5-4\*ap01

6006 sequences assigned  
5930 (98.7%) exact matches, in which:  
5818 unique CDR3  
13 unique J



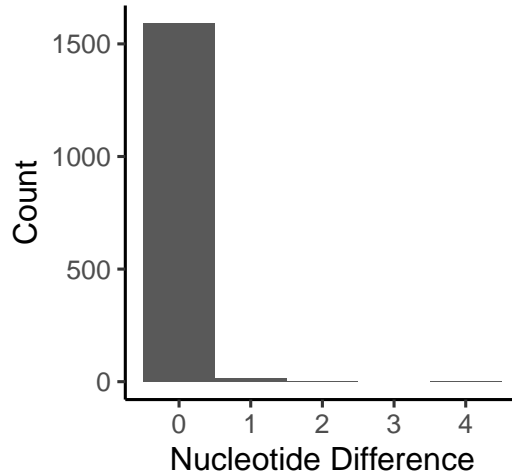
### TRBV5-5\*ap01

2018 sequences assigned  
2006 (99.4%) exact matches, in which:  
1992 unique CDR3  
13 unique J



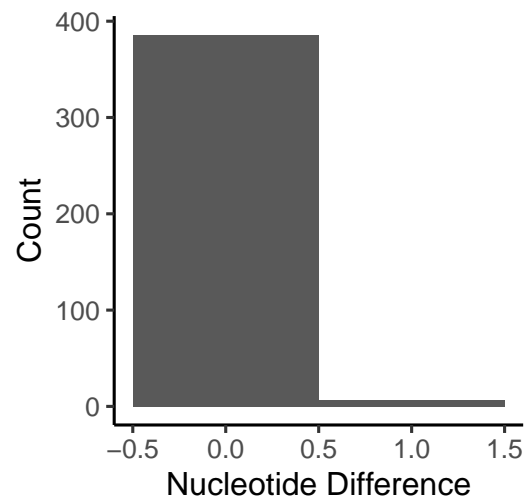
### TRBV5-8\*ap01

1609 sequences assigned  
1591 (98.9%) exact matches, in which:  
1579 unique CDR3  
13 unique J



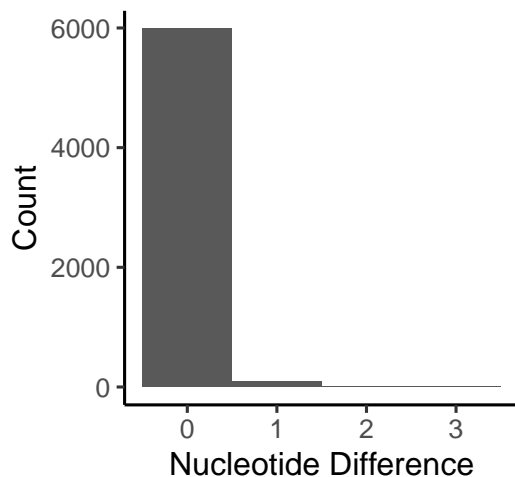
### TRBV6-7\*ap01

393 sequences assigned  
386 (98.2%) exact matches, in which:  
378 unique CDR3  
13 unique J



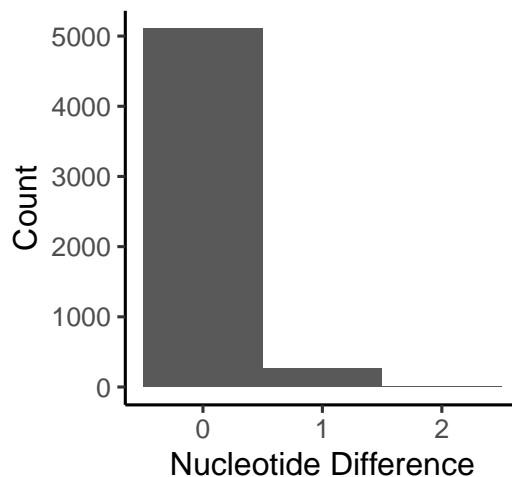
### TRBV5-6\*ap01

6075 sequences assigned  
5987 (98.6%) exact matches, in which:  
5844 unique CDR3  
13 unique J



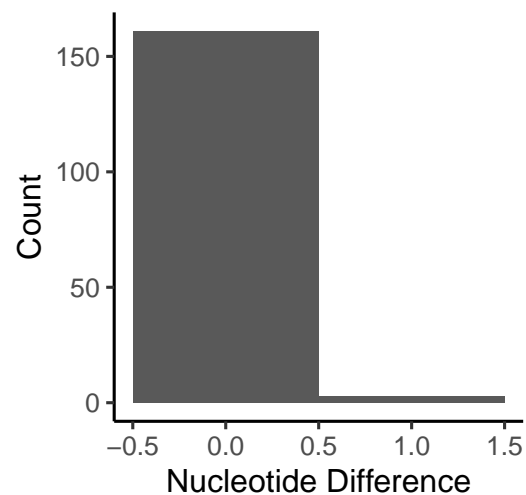
### TRBV6-1\*ap01

5376 sequences assigned  
5105 (95%) exact matches, in which:  
4987 unique CDR3  
13 unique J



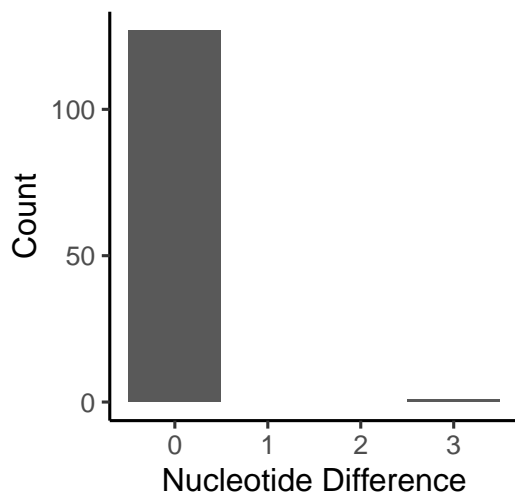
### TRBV6-8\*ap01

164 sequences assigned  
161 (98.2%) exact matches, in which:  
159 unique CDR3  
13 unique J



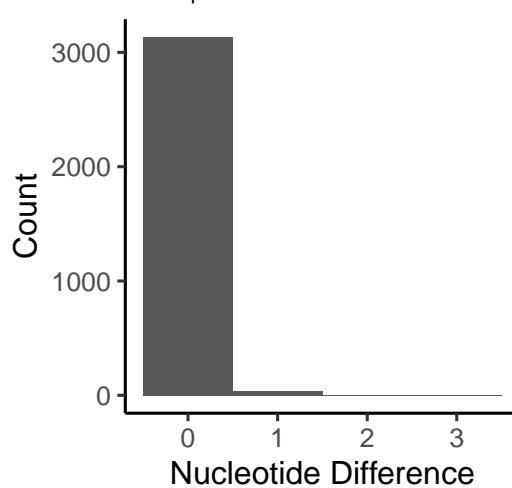
### TRBV5-7\*ap01

128 sequences assigned  
127 (99.2%) exact matches, in which:  
125 unique CDR3  
13 unique J



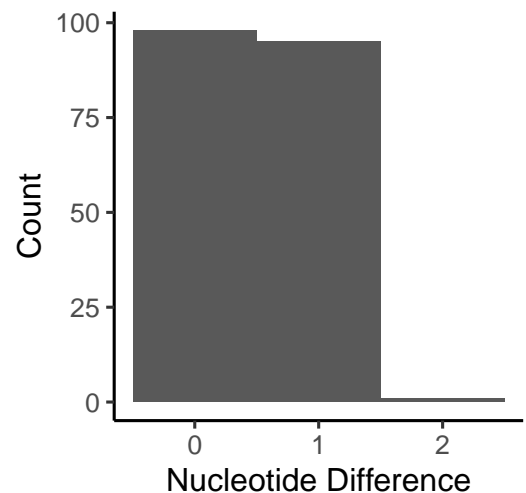
### TRBV6-4\*ap01

3177 sequences assigned  
3134 (98.6%) exact matches, in which:  
3101 unique CDR3  
13 unique J



### TRBV6-9\*ap01

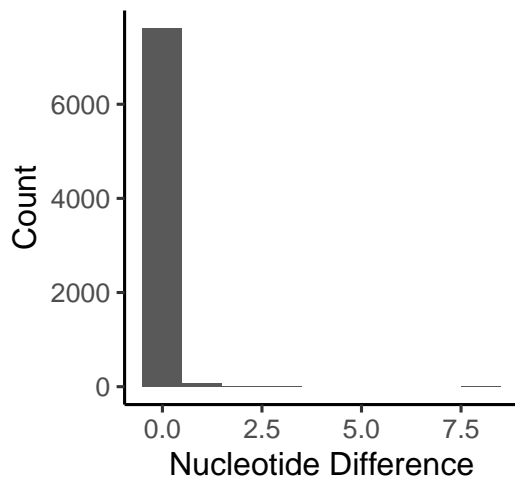
194 sequences assigned  
98 (50.5%) exact matches, in which:  
95 unique CDR3  
13 unique J





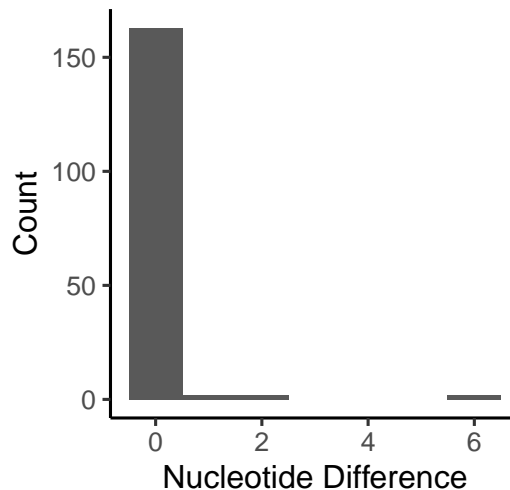
### TRBV6-23\*ap01

7691 sequences assigned  
7611 (99%) exact matches, in which:  
7415 unique CDR3  
13 unique J



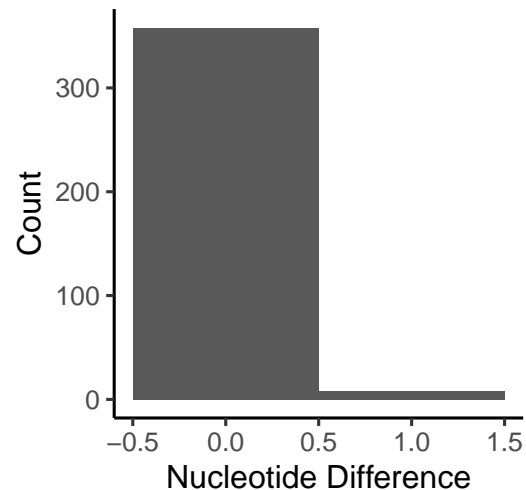
### TRBV7-1\*ap01\_G291C\_

169 sequences assigned  
163 (96.4%) exact matches, in which:  
163 unique CDR3  
13 unique J



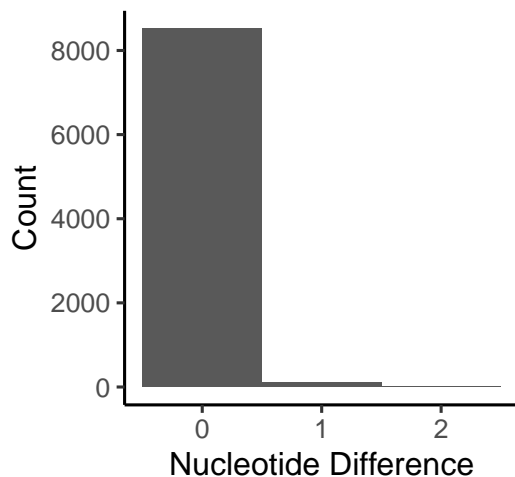
### TRBV7-4\*ap01

366 sequences assigned  
358 (97.8%) exact matches, in which:  
357 unique CDR3  
13 unique J



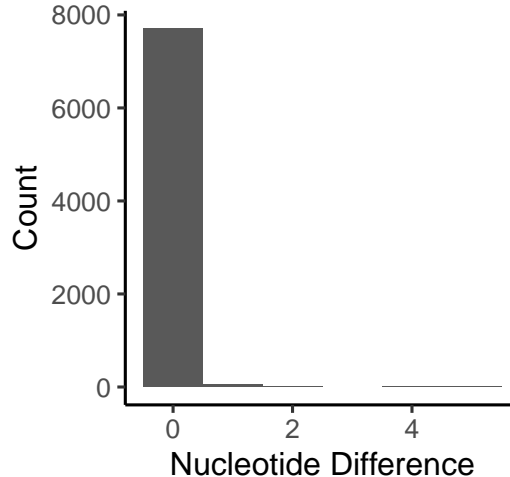
### TRBV6-56\*ap01

8633 sequences assigned  
8517 (98.7%) exact matches, in which:  
8334 unique CDR3  
13 unique J



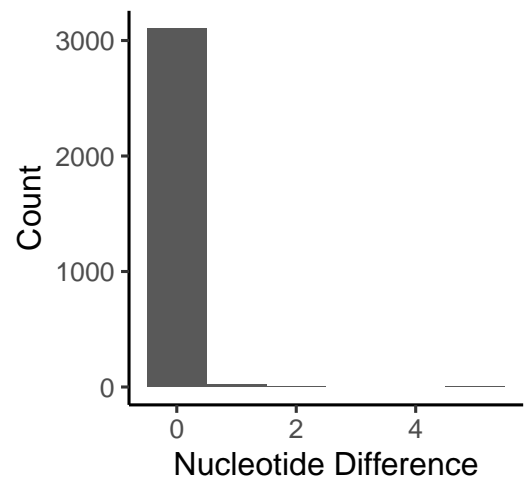
### TRBV7-2\*ap01

7759 sequences assigned  
7703 (99.3%) exact matches, in which:  
7623 unique CDR3  
13 unique J



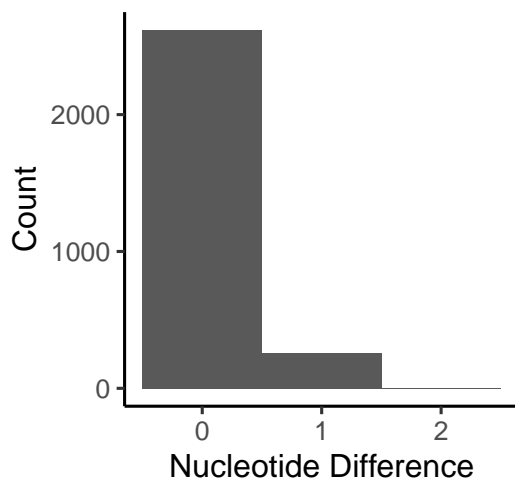
### TRBV7-6\*ap01

3122 sequences assigned  
3102 (99.4%) exact matches, in which:  
3039 unique CDR3  
13 unique J



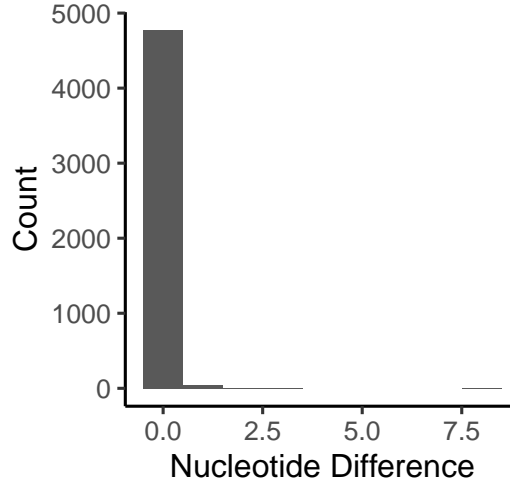
### TRBV6-56\*ap02

2878 sequences assigned  
2618 (91%) exact matches, in which:  
2564 unique CDR3  
13 unique J



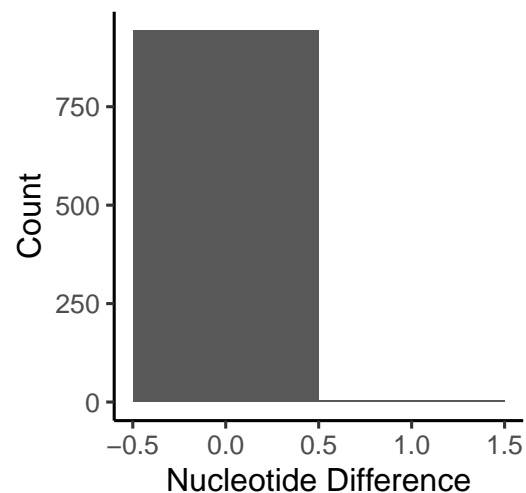
### TRBV7-3\*ap01

4822 sequences assigned  
4774 (99%) exact matches, in which:  
4726 unique CDR3  
13 unique J



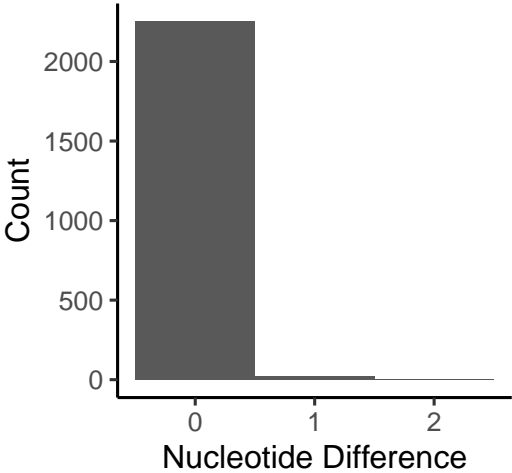
### TRBV7-7\*ap01

949 sequences assigned  
944 (99.5%) exact matches, in which:  
927 unique CDR3  
13 unique J



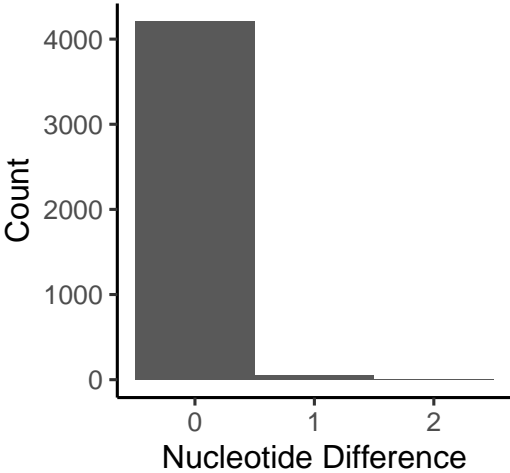
TRBV7-8\*ap01

2278 sequences assigned  
2252 (98.9%) exact matches, in which:  
2212 unique CDR3  
13 unique J



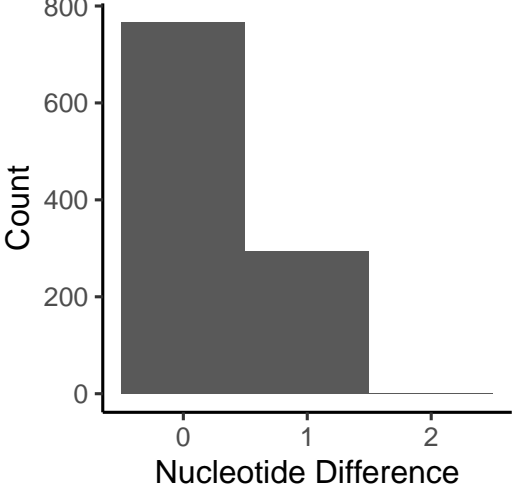
TRBV29-1\*ap01

4261 sequences assigned  
4208 (98.8%) exact matches, in which:  
4130 unique CDR3  
13 unique J



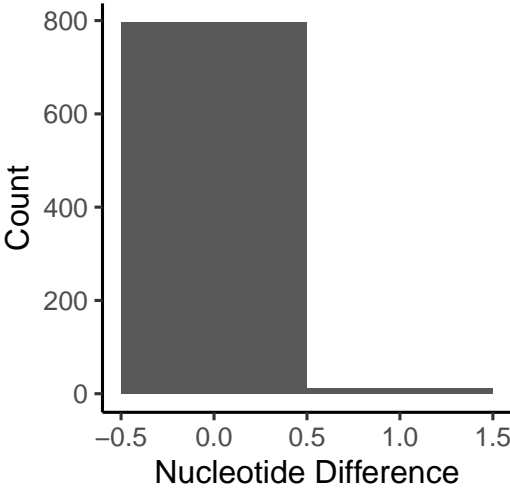
TRBV7-8\*ap03

1063 sequences assigned  
767 (72.2%) exact matches, in which:  
753 unique CDR3  
13 unique J



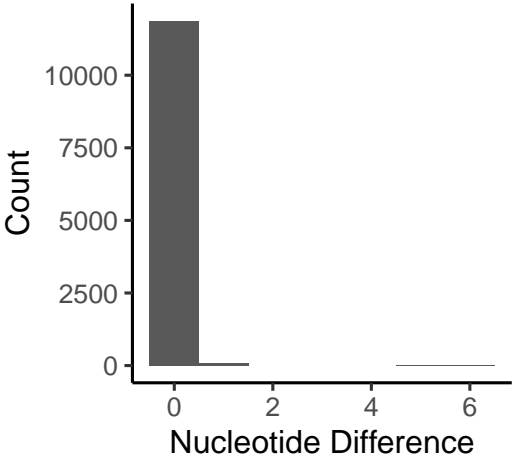
TRBV29-1\*ap02

808 sequences assigned  
797 (98.6%) exact matches, in which:  
780 unique CDR3  
13 unique J



TRBV7-9\*ap01

11979 sequences assigned  
11875 (99.1%) exact matches, in which:  
11728 unique CDR3  
13 unique J



TRBV7-1\*ap01\_G291C\_T296C

