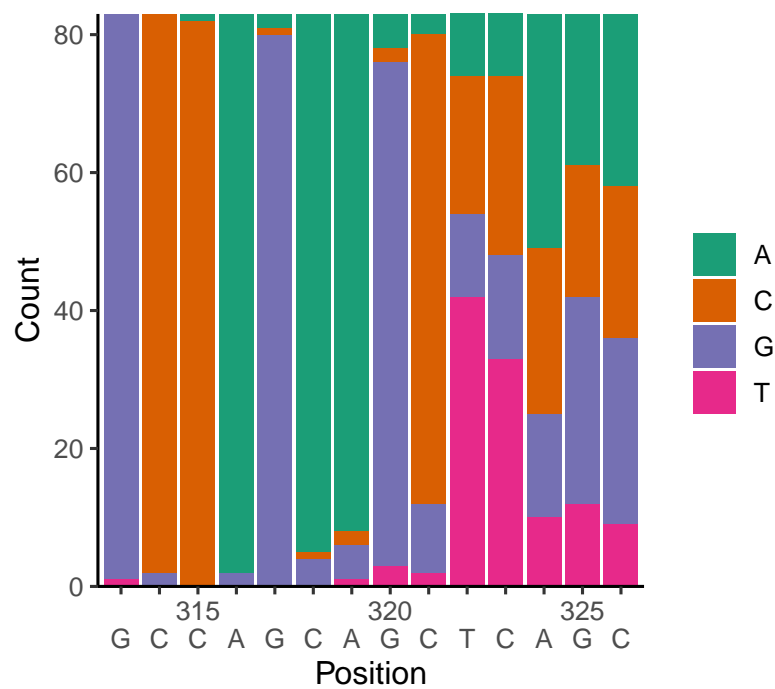
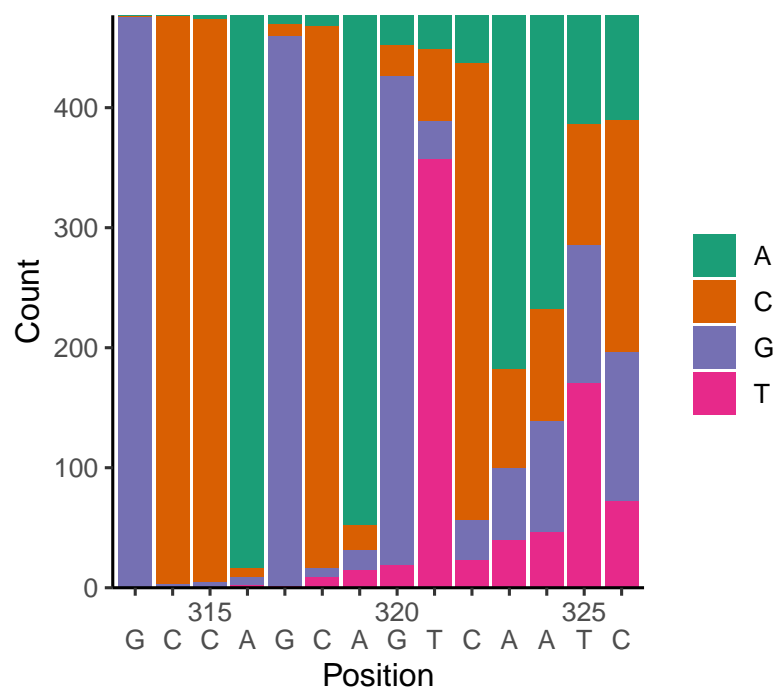


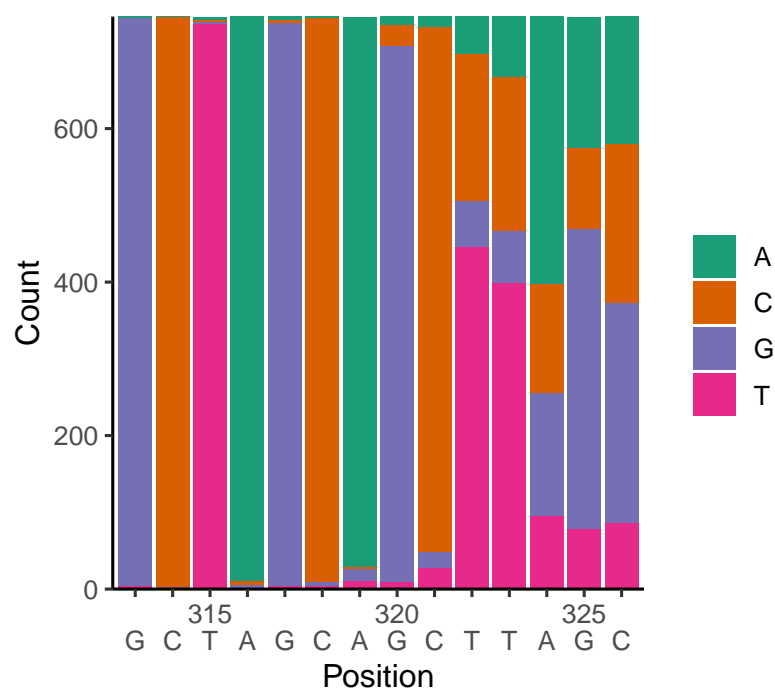
Gene TRBV7-1\*ap01\_G291C\_T296C



Gene TRBV23-1\*ap01\_T304C



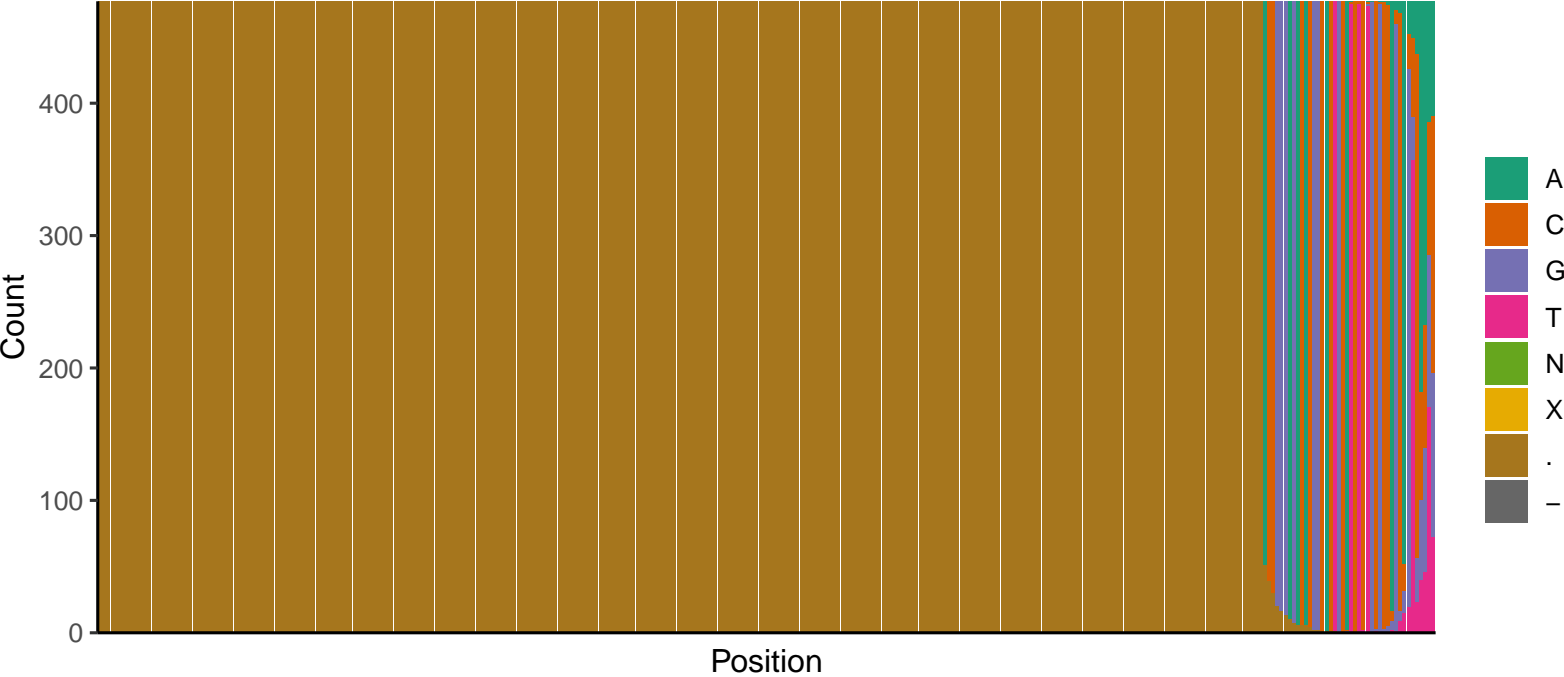
Gene TRBV7-7\*ap01\_C315T



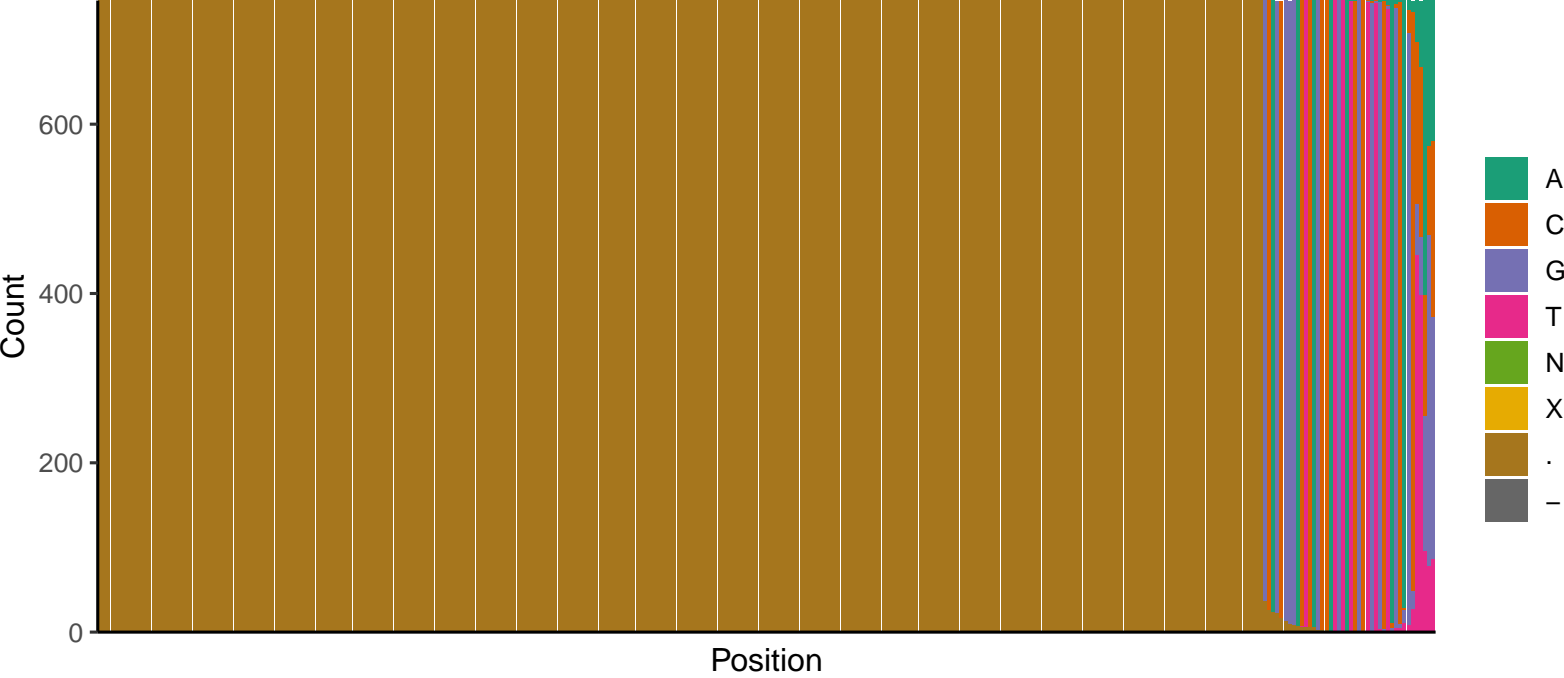
Gene TRBV7-1\*ap01\_G291C\_T296C



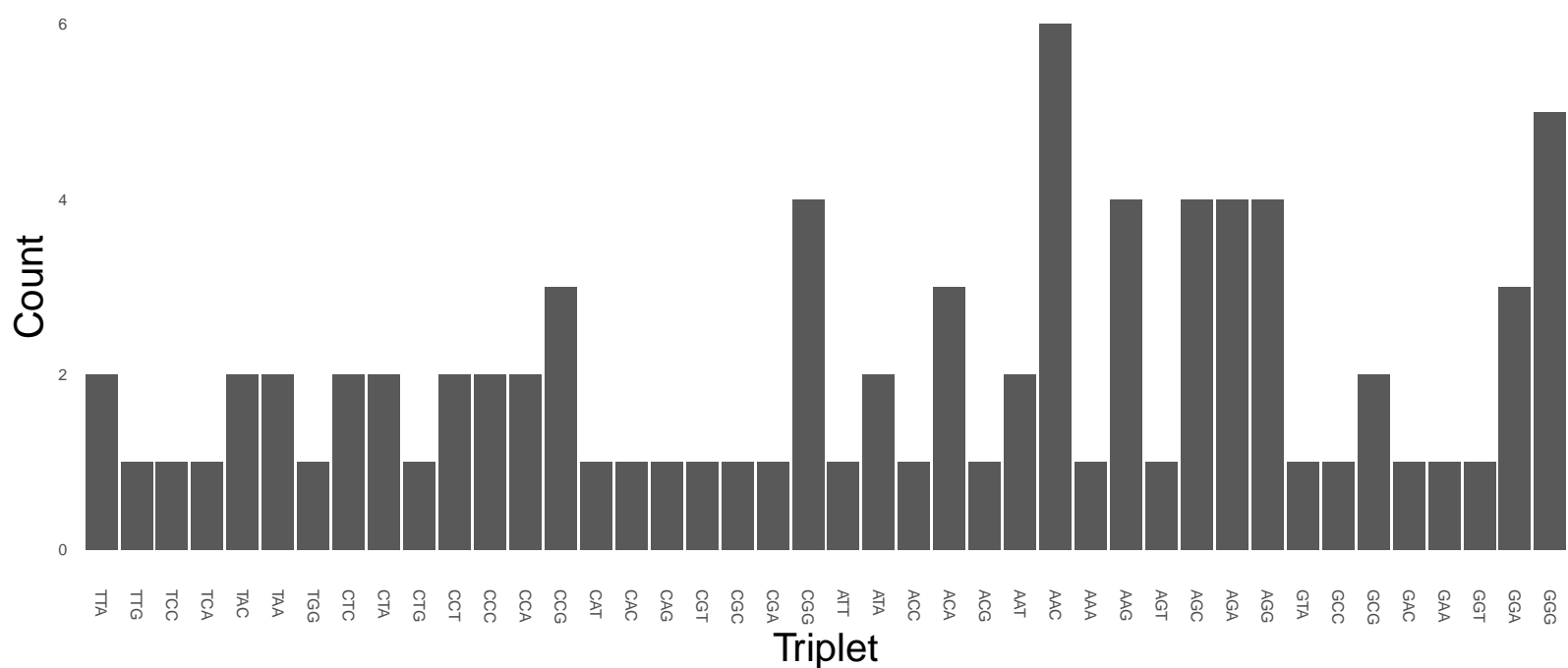
Gene TRBV23-1\*ap01\_T304C



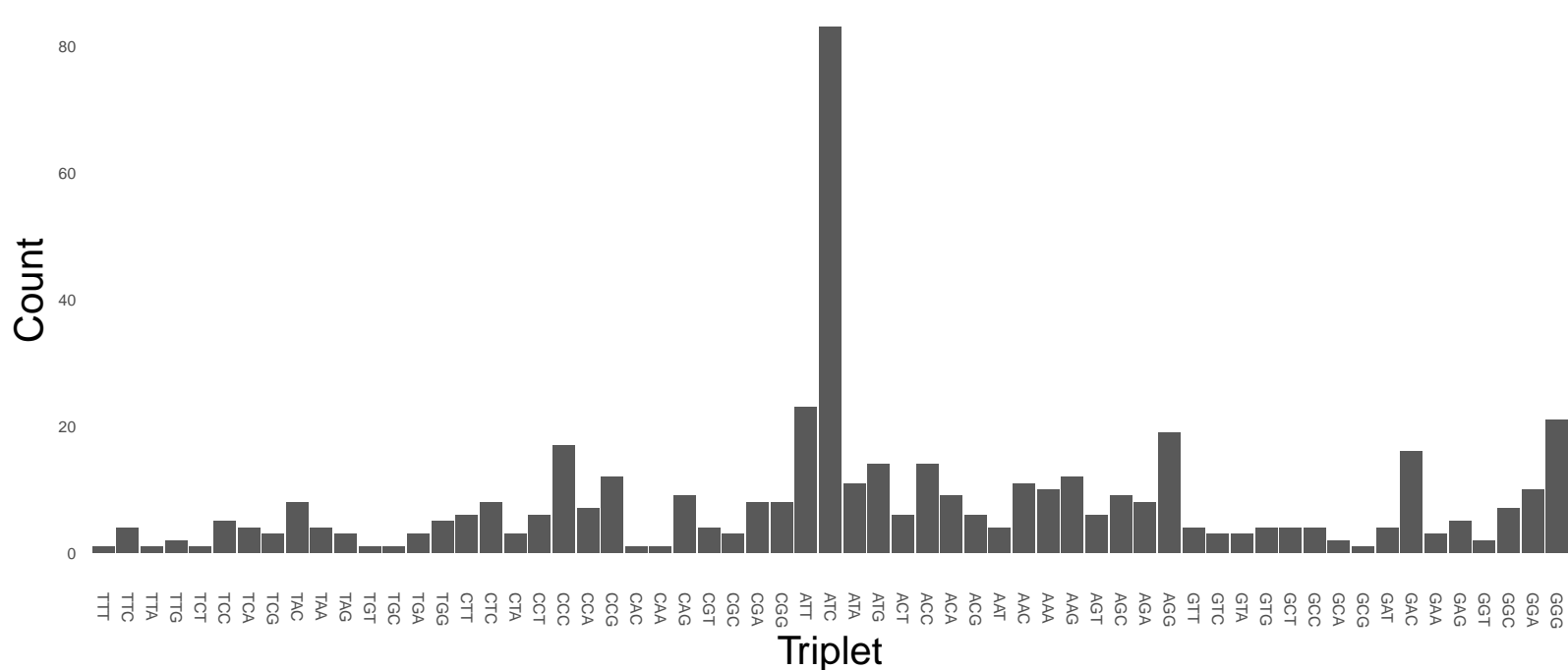
Gene TRBV7-7\*ap01\_C315T



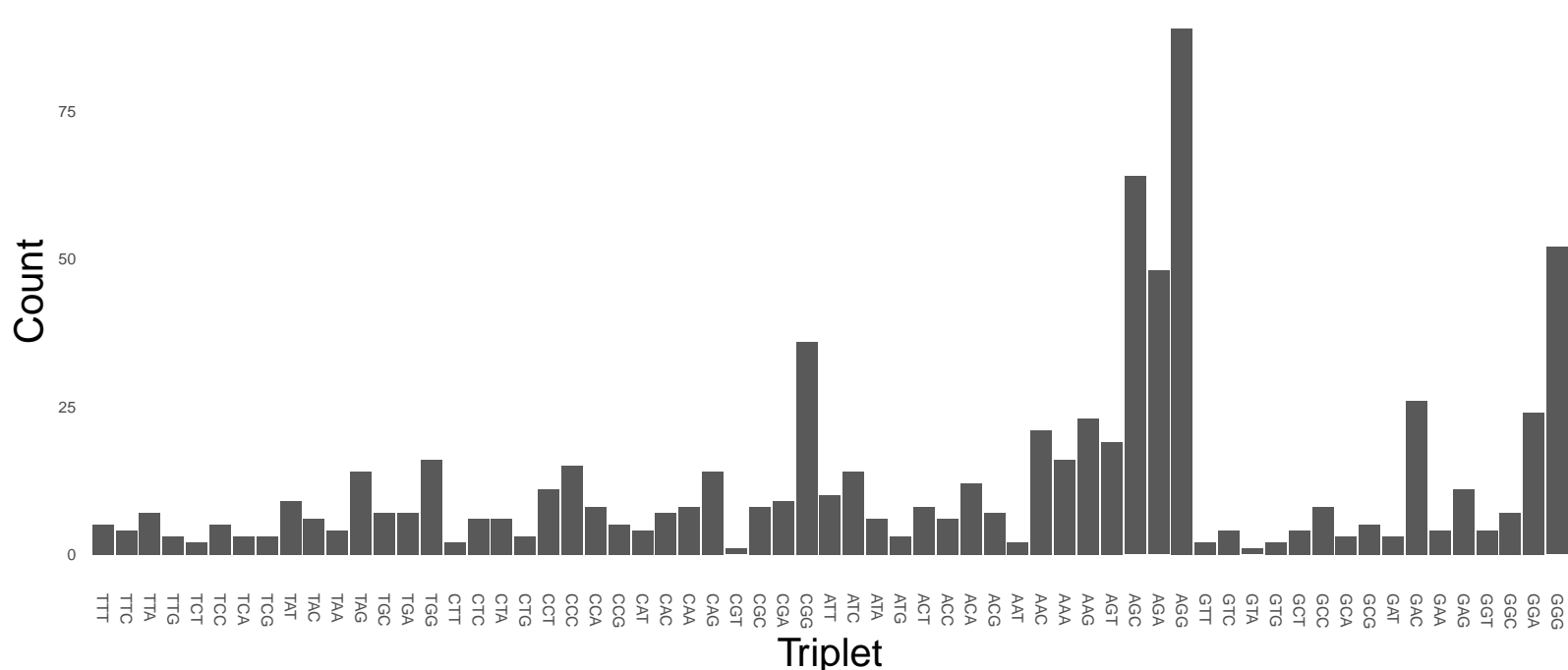
TRBV7-1\*ap01\_G291C\_T296C- Final 3 nucleotides as a triplet



TRBV23-1\*ap01\_T304C- Final 3 nucleotides as a triplet

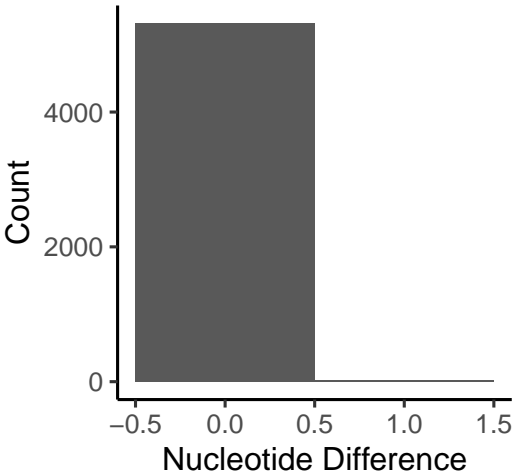


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



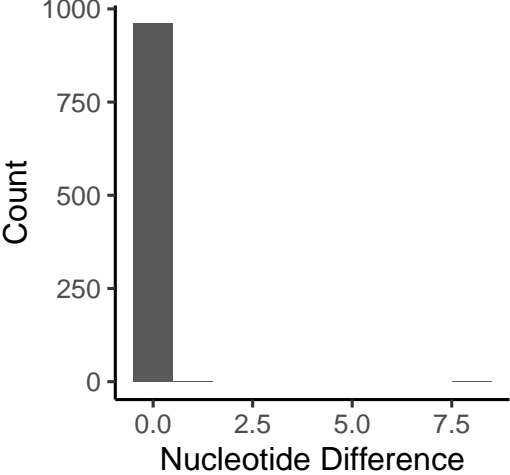
TRBV20-1\*ap01

5333 sequences assigned  
5315 (99.7%) exact matches, in which:  
5292 unique CDR3  
14 unique J



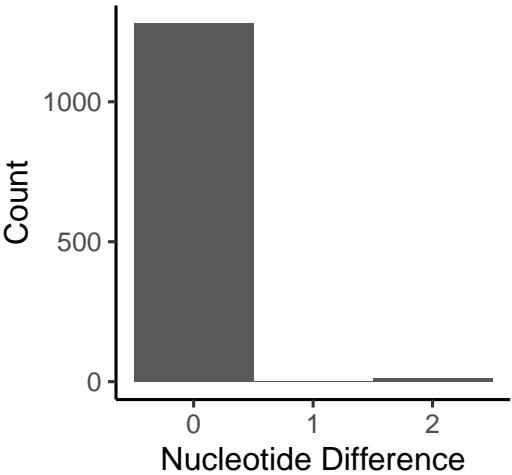
TRBV10-2\*ap01

964 sequences assigned  
961 (99.7%) exact matches, in which:  
961 unique CDR3  
13 unique J



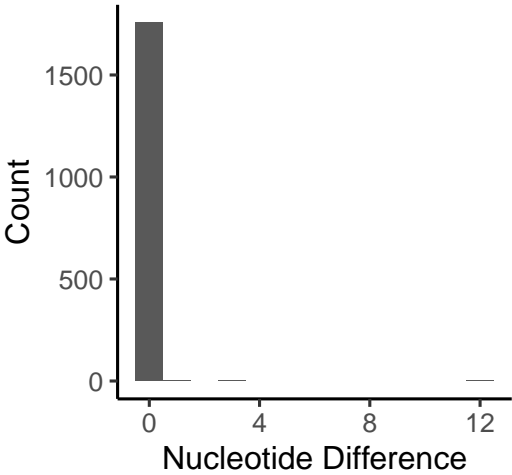
TRBV13\*ap01

1297 sequences assigned  
1280 (98.7%) exact matches, in which:  
1273 unique CDR3  
14 unique J



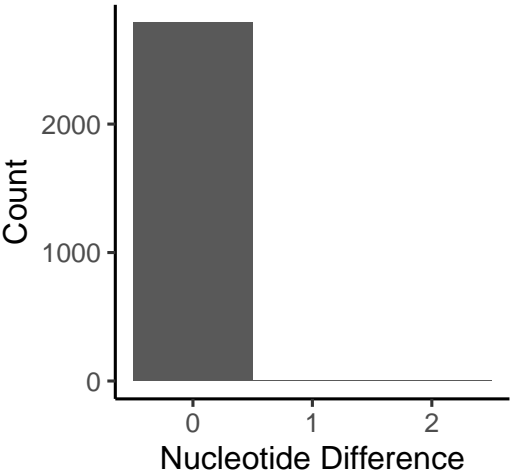
TRBV10-1\*ap01

1761 sequences assigned  
1756 (99.7%) exact matches, in which:  
1750 unique CDR3  
14 unique J



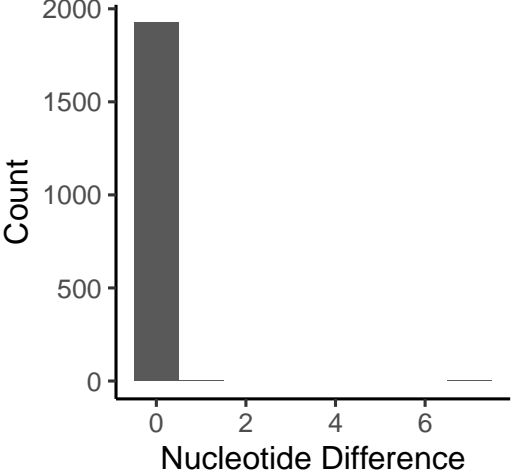
TRBV10-3\*ap01

2798 sequences assigned  
2789 (99.7%) exact matches, in which:  
2786 unique CDR3  
14 unique J



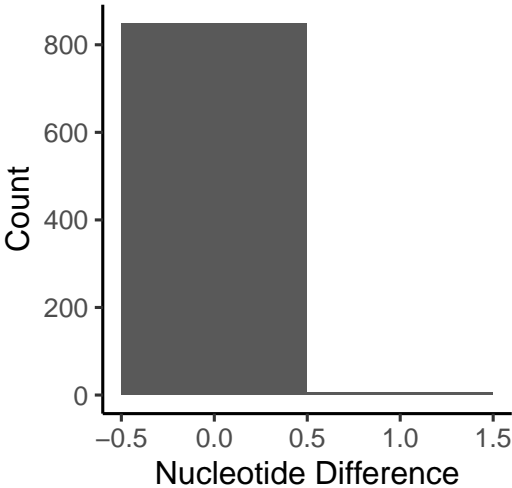
TRBV14\*ap01

1930 sequences assigned  
1925 (99.7%) exact matches, in which:  
1924 unique CDR3  
14 unique J



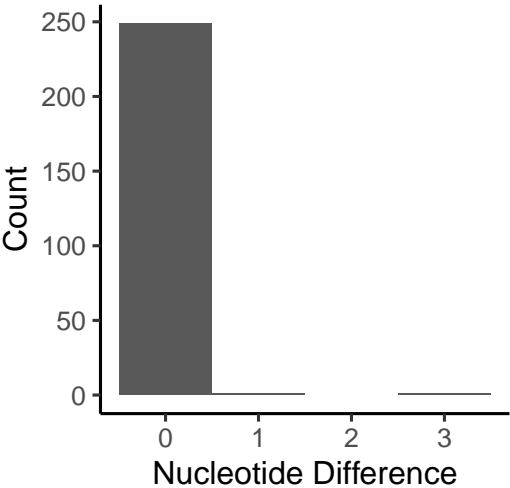
TRBV20-1\*ap02

854 sequences assigned  
849 (99.4%) exact matches, in which:  
846 unique CDR3  
14 unique J



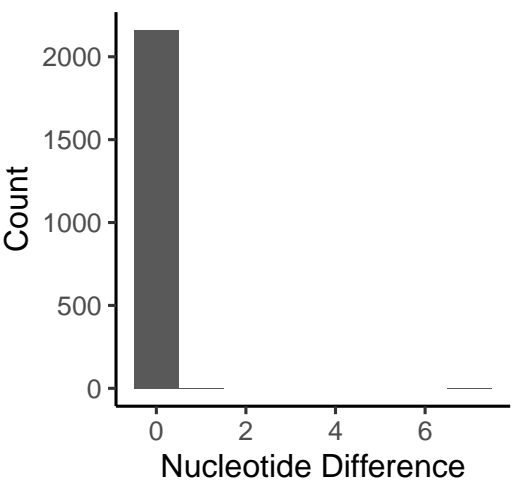
TRBV1\*ap01

251 sequences assigned  
249 (99.2%) exact matches, in which:  
247 unique CDR3  
14 unique J



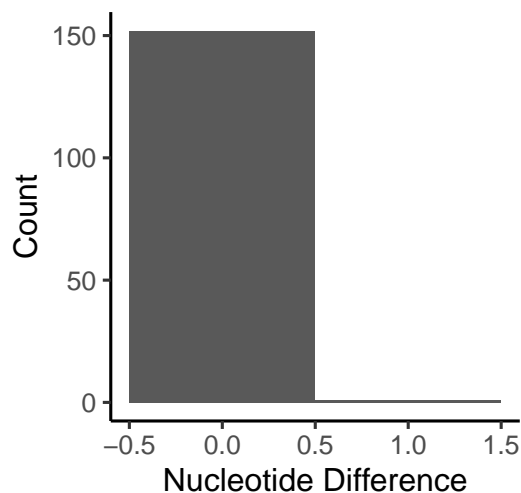
TRBV15\*ap02

2164 sequences assigned  
2161 (99.9%) exact matches, in which:  
2151 unique CDR3  
14 unique J



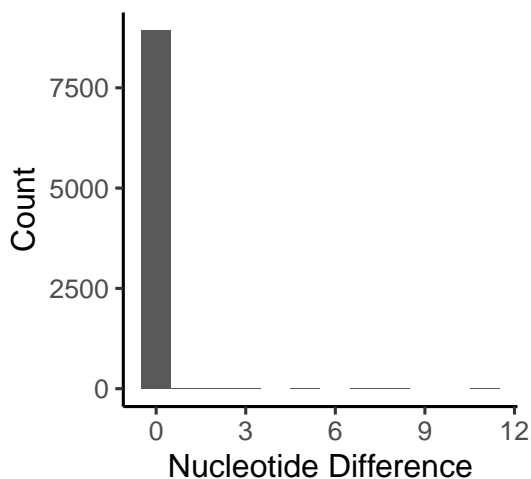
### TRBV16\*ap01

153 sequences assigned  
152 (99.3%) exact matches, in which:  
152 unique CDR3  
13 unique J



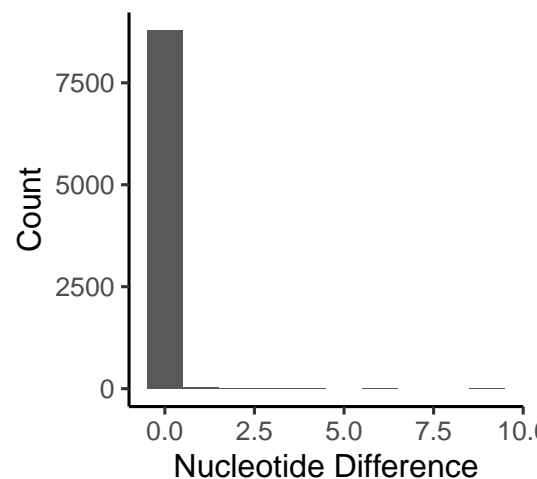
### TRBV19\*ap01

8954 sequences assigned  
8931 (99.7%) exact matches, in which:  
8928 unique CDR3  
14 unique J



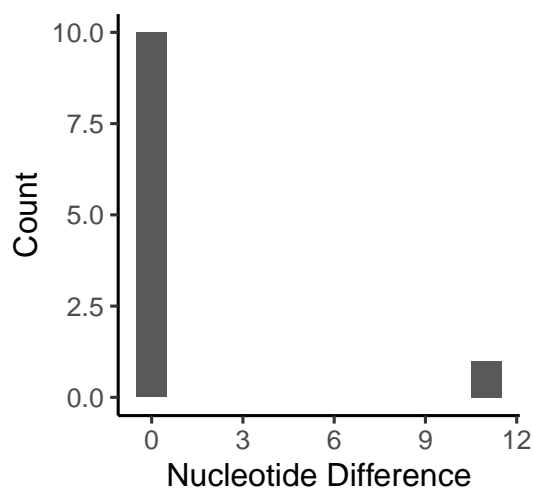
### TRBV27\*ap01

8834 sequences assigned  
8785 (99.4%) exact matches, in which:  
8754 unique CDR3  
14 unique J



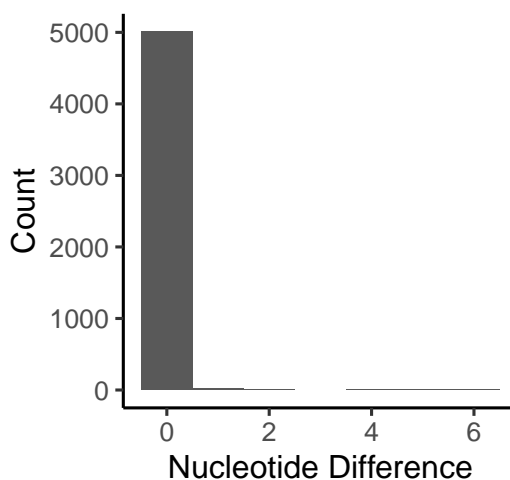
### TRBV17\*ap01

11 sequences assigned  
10 (90.9%) exact matches, in which:  
10 unique CDR3  
6 unique J



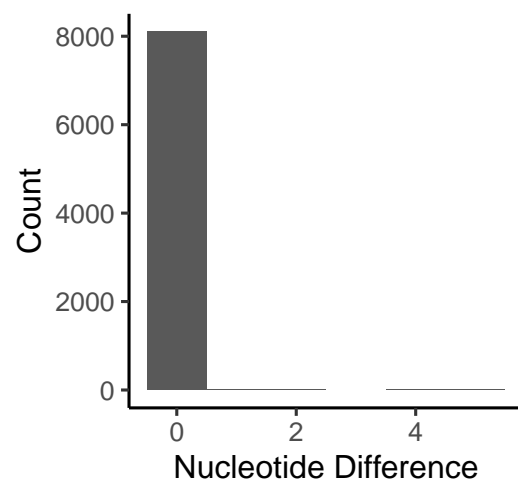
### TRBV2\*ap01

5030 sequences assigned  
5009 (99.6%) exact matches, in which:  
4990 unique CDR3  
14 unique J



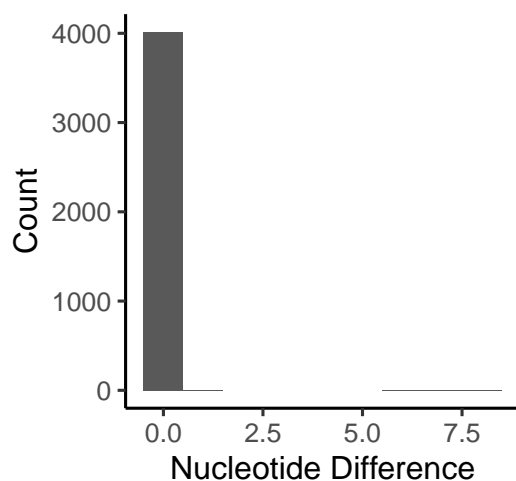
### TRBV28\*ap01

8120 sequences assigned  
8102 (99.8%) exact matches, in which:  
8085 unique CDR3  
14 unique J



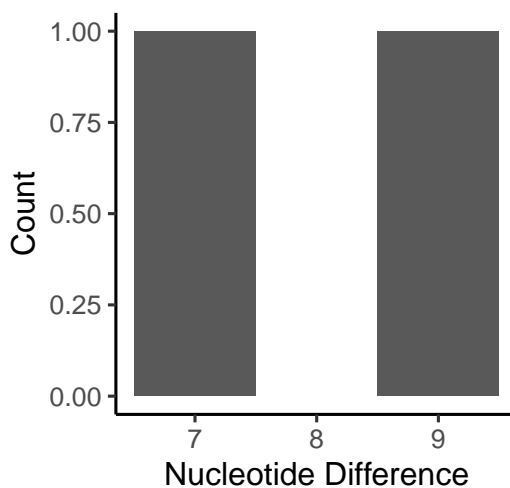
### TRBV18\*ap01

4022 sequences assigned  
4014 (99.8%) exact matches, in which:  
4009 unique CDR3  
14 unique J



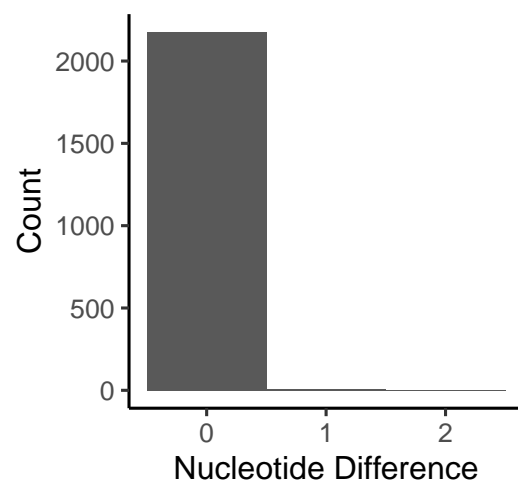
### TRBV26\*ap01

2 sequences assigned  
No exact matches.



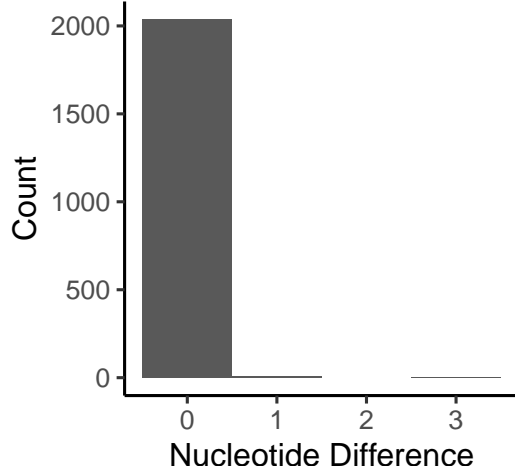
### TRBV30\*ap01

2186 sequences assigned  
2176 (99.5%) exact matches, in which:  
2167 unique CDR3  
13 unique J



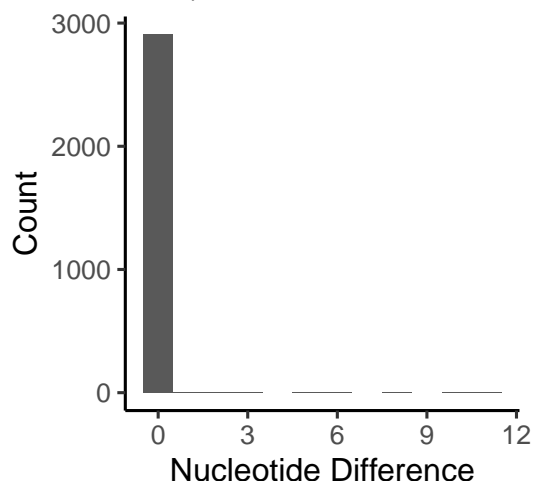
### TRBV30\*ap02

2049 sequences assigned  
2037 (99.4%) exact matches, in which:  
2032 unique CDR3  
13 unique J



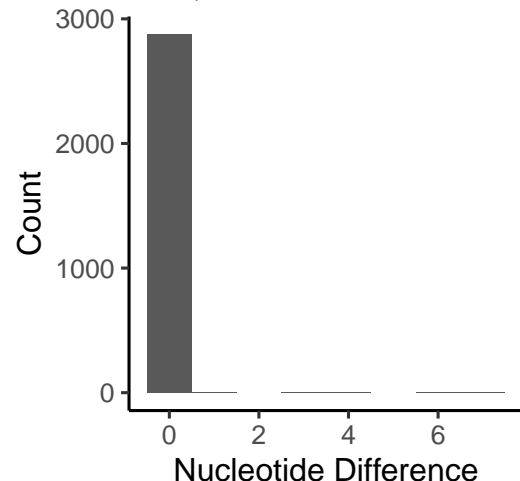
### TRBV21-1\*ap01

2928 sequences assigned  
2908 (99.3%) exact matches, in which:  
2908 unique CDR3  
14 unique J



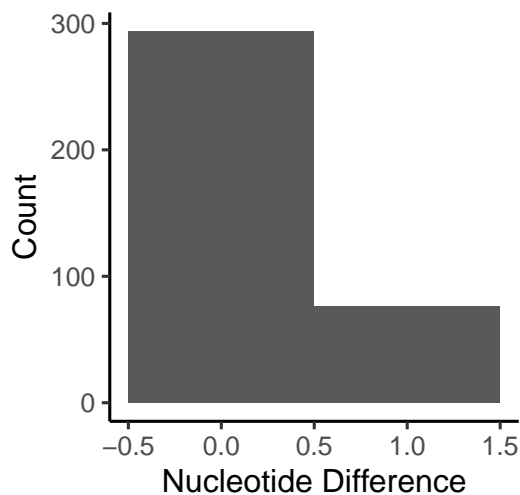
### TRBV11-3\*ap01

2884 sequences assigned  
2875 (99.7%) exact matches, in which:  
2872 unique CDR3  
14 unique J



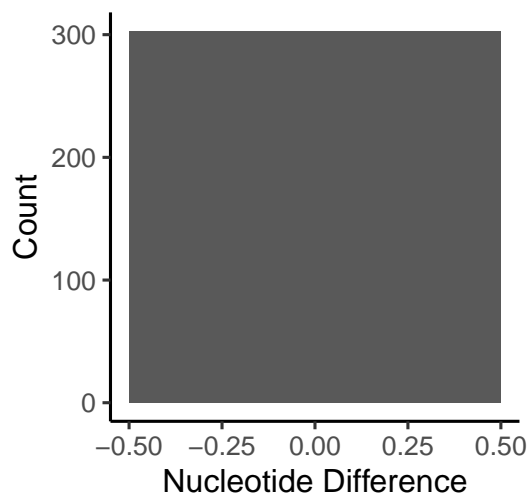
### TRBV30\*ap03

370 sequences assigned  
294 (79.5%) exact matches, in which:  
294 unique CDR3  
13 unique J



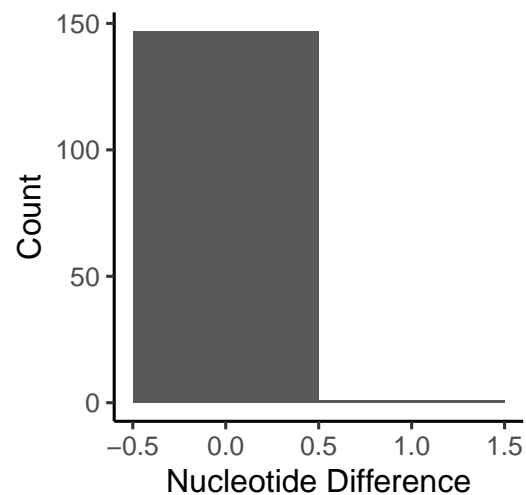
### TRBV11-1\*ap01

303 sequences assigned  
303 (100%) exact matches, in which:  
303 unique CDR3  
12 unique J



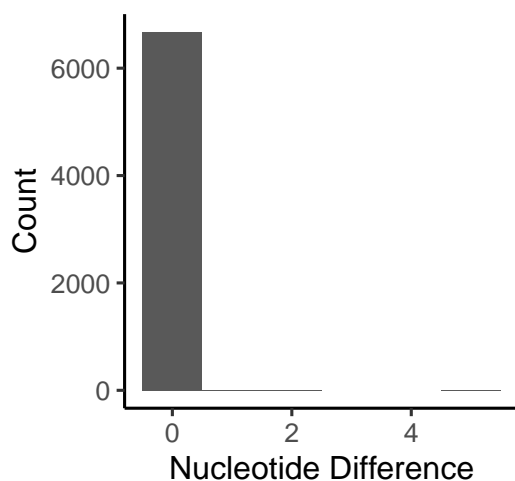
### TRBV12-1\*ap01

148 sequences assigned  
147 (99.3%) exact matches, in which:  
146 unique CDR3  
13 unique J



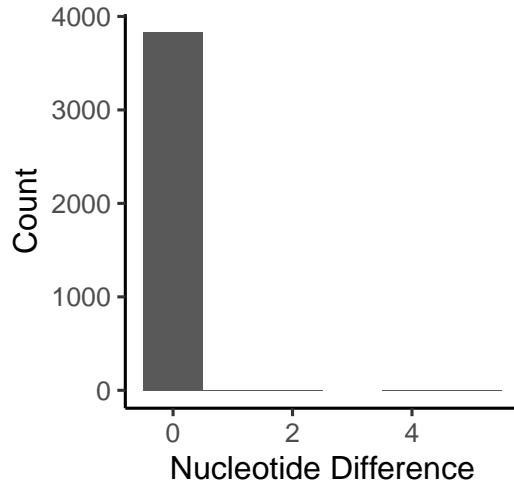
### TRBV9\*ap01

6683 sequences assigned  
6673 (99.9%) exact matches, in which:  
6667 unique CDR3  
14 unique J



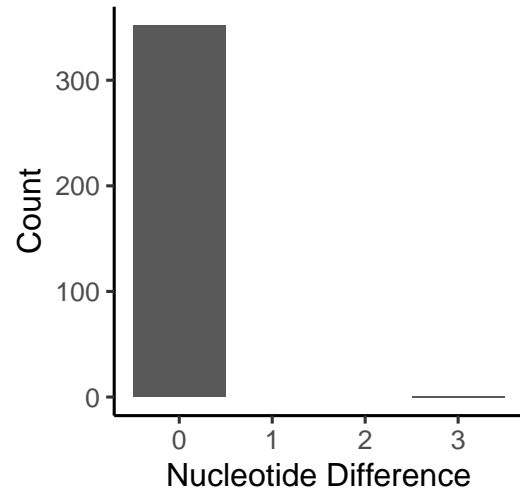
### TRBV11-2\*ap01

3839 sequences assigned  
3833 (99.8%) exact matches, in which:  
3831 unique CDR3  
14 unique J



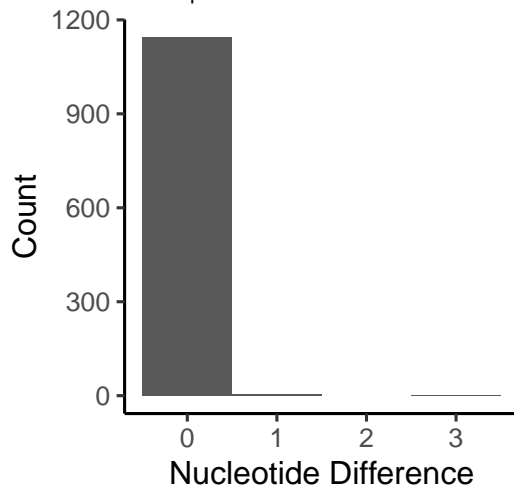
### TRBV12-2\*ap01

353 sequences assigned  
352 (99.7%) exact matches, in which:  
350 unique CDR3  
14 unique J



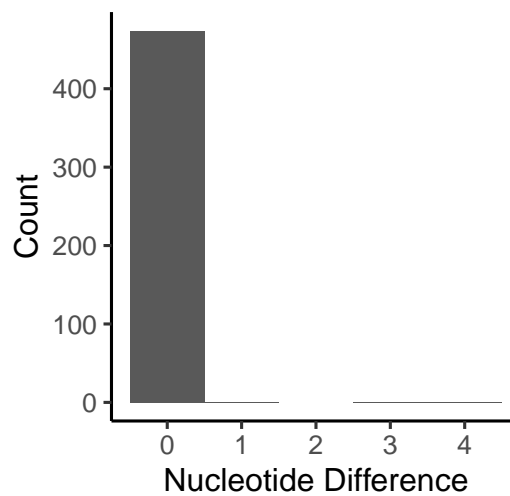
### TRBV12-5\*ap01

1150 sequences assigned  
1144 (99.5%) exact matches, in which:  
1144 unique CDR3  
13 unique J



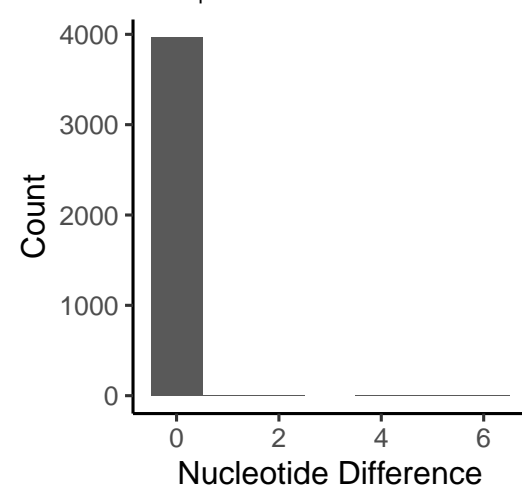
### TRBV23-1\*ap01\_T304C

477 sequences assigned  
474 (99.4%) exact matches, in which:  
474 unique CDR3  
13 unique J



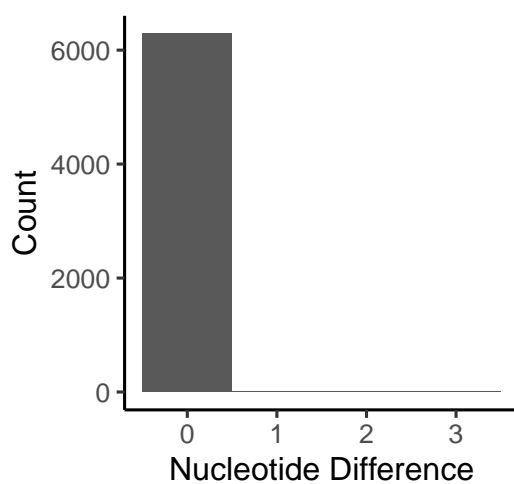
### TRBV4-1\*ap01

3980 sequences assigned  
3966 (99.6%) exact matches, in which:  
3957 unique CDR3  
14 unique J



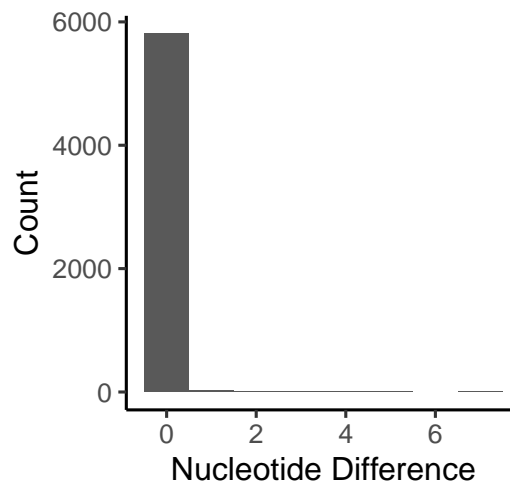
### TRBV12-34\*ap01

6305 sequences assigned  
6288 (99.7%) exact matches, in which:  
6276 unique CDR3  
15 unique J



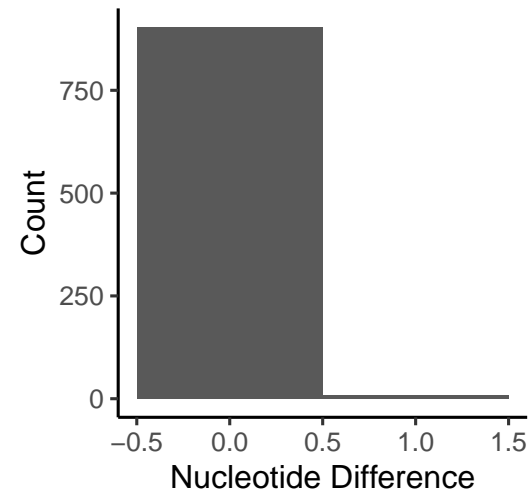
### TRBV3-12\*ap01

5844 sequences assigned  
5808 (99.4%) exact matches, in which:  
5795 unique CDR3  
14 unique J



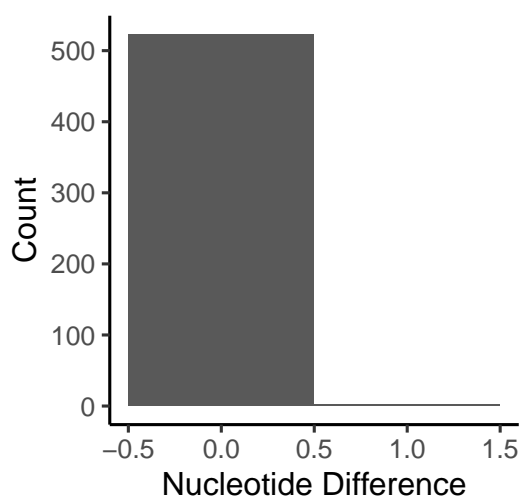
### TRBV4-2\*ap01

913 sequences assigned  
904 (99%) exact matches, in which:  
901 unique CDR3  
14 unique J



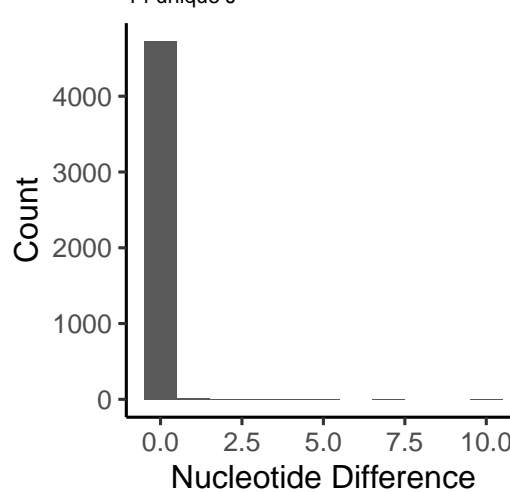
### TRBV23-1\*ap01

525 sequences assigned  
523 (99.6%) exact matches, in which:  
522 unique CDR3  
13 unique J



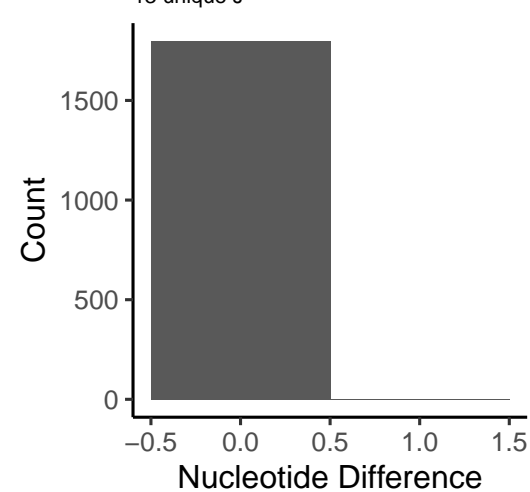
### TRBV24-1\*ap01

4754 sequences assigned  
4728 (99.5%) exact matches, in which:  
4721 unique CDR3  
14 unique J



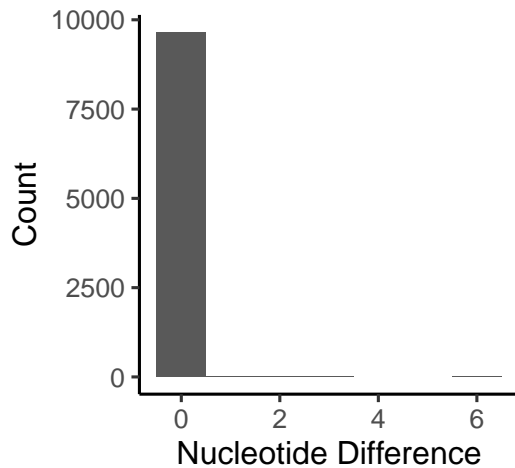
### TRBV4-3\*ap01

1799 sequences assigned  
1798 (99.9%) exact matches, in which:  
1794 unique CDR3  
13 unique J



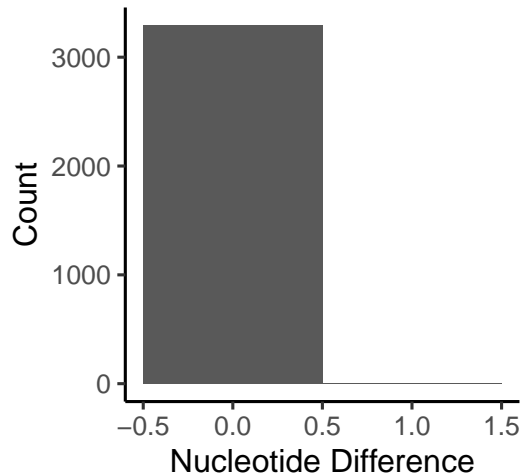
### TRBV5-1\*ap01

9680 sequences assigned  
9654 (99.7%) exact matches, in which:  
9599 unique CDR3  
14 unique J



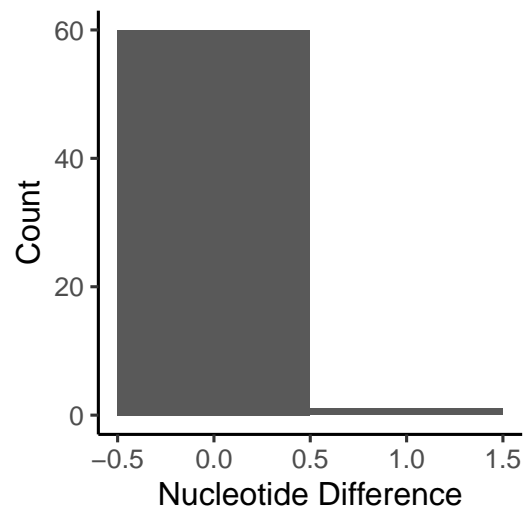
### TRBV5-4\*ap01

3299 sequences assigned  
3292 (99.8%) exact matches, in which:  
3286 unique CDR3  
14 unique J



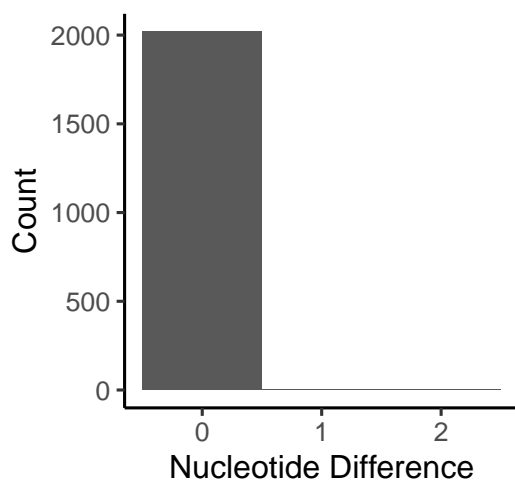
### TRBV5-7\*ap01

61 sequences assigned  
60 (98.4%) exact matches, in which:  
59 unique CDR3  
13 unique J



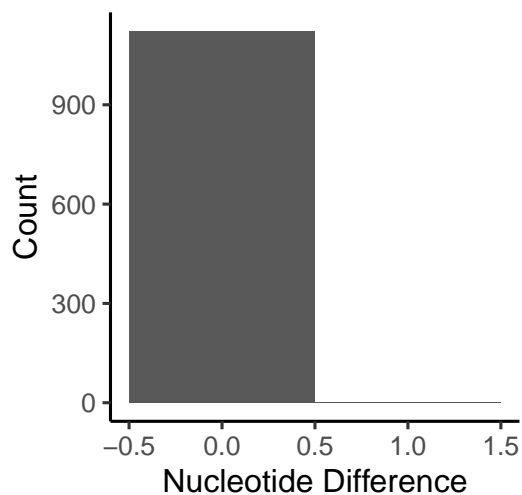
### TRBV25-1\*ap01

2025 sequences assigned  
2019 (99.7%) exact matches, in which:  
2019 unique CDR3  
14 unique J



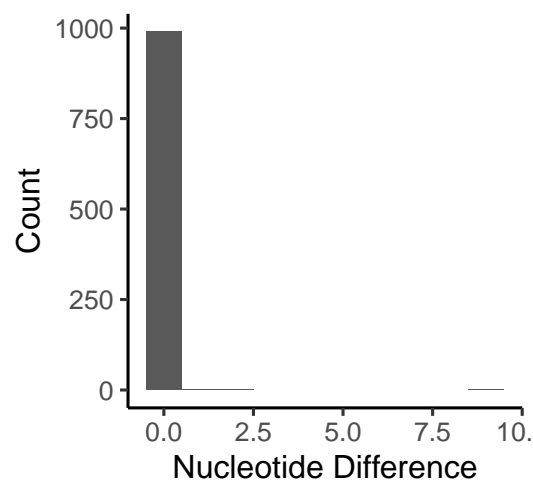
### TRBV5-5\*ap01

1126 sequences assigned  
1123 (99.7%) exact matches, in which:  
1123 unique CDR3  
13 unique J



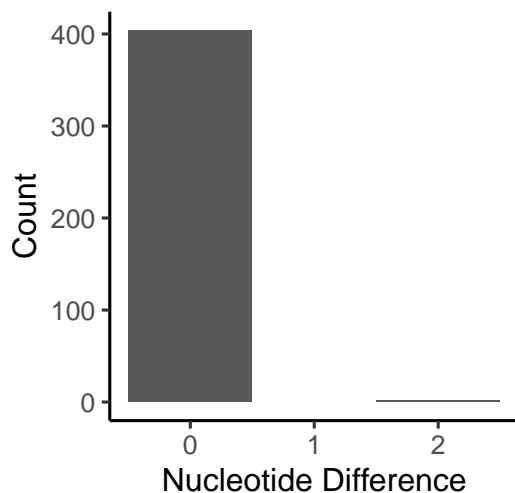
### TRBV5-8\*ap01

994 sequences assigned  
990 (99.6%) exact matches, in which:  
987 unique CDR3  
13 unique J



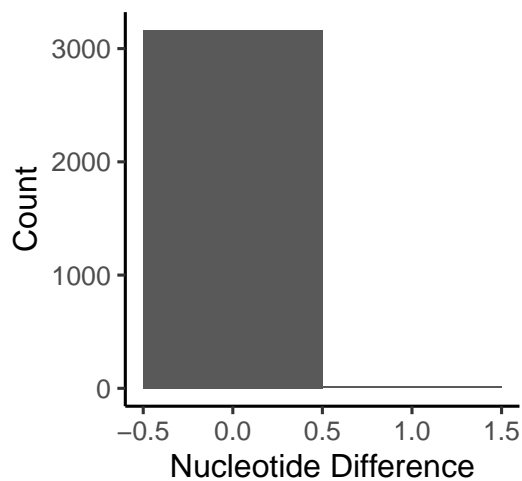
### TRBV5-3\*ap01

406 sequences assigned  
404 (99.5%) exact matches, in which:  
402 unique CDR3  
13 unique J



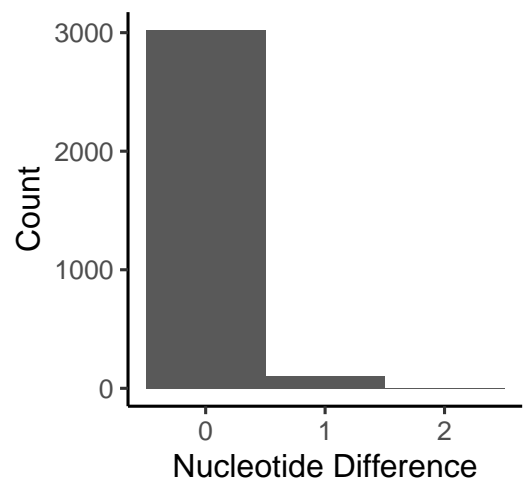
### TRBV5-6\*ap01

3181 sequences assigned  
3164 (99.5%) exact matches, in which:  
3151 unique CDR3  
14 unique J



### TRBV6-1\*ap01

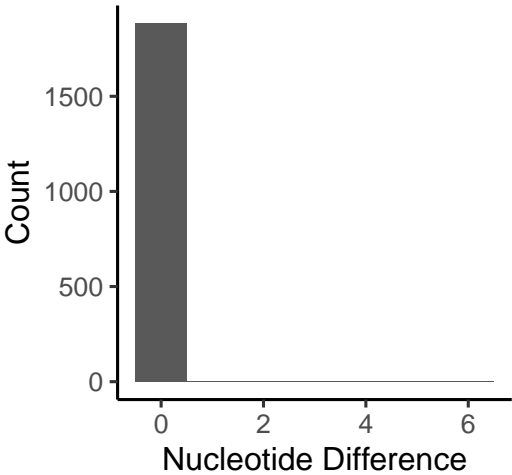
3125 sequences assigned  
3022 (96.7%) exact matches, in which:  
3011 unique CDR3  
14 unique J





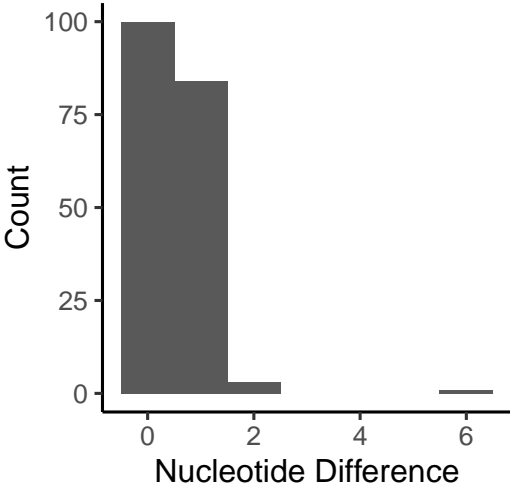
TRBV6-4\*ap01

1892 sequences assigned  
1883 (99.5%) exact matches, in which:  
1875 unique CDR3  
14 unique J



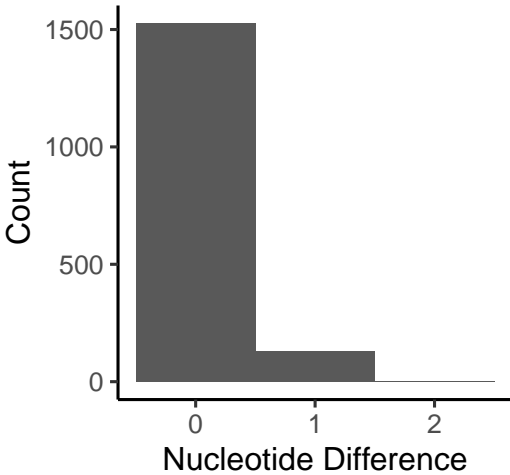
TRBV6-9\*ap01

188 sequences assigned  
100 (53.2%) exact matches, in which:  
100 unique CDR3  
13 unique J



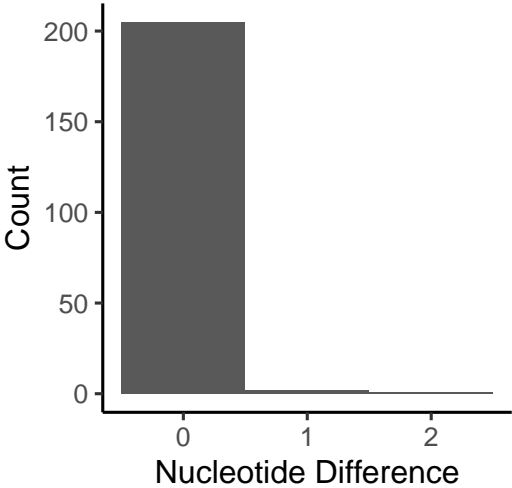
TRBV6-56\*ap02

1656 sequences assigned  
1526 (92.1%) exact matches, in which:  
1521 unique CDR3  
14 unique J



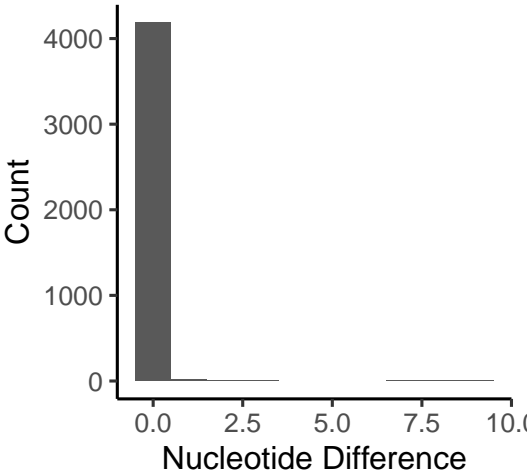
TRBV6-7\*ap01

208 sequences assigned  
205 (98.6%) exact matches, in which:  
204 unique CDR3  
14 unique J



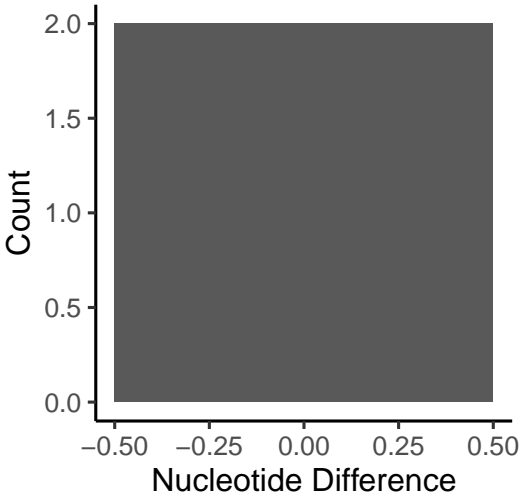
TRBV6-23\*ap01

4205 sequences assigned  
4185 (99.5%) exact matches, in which:  
4166 unique CDR3  
14 unique J



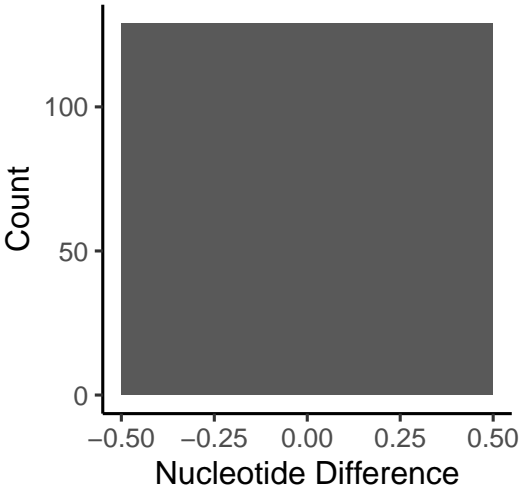
TRBV7-1\*ap01

2 sequences assigned  
2 (100%) exact matches, in which:  
2 unique CDR3  
1 unique J



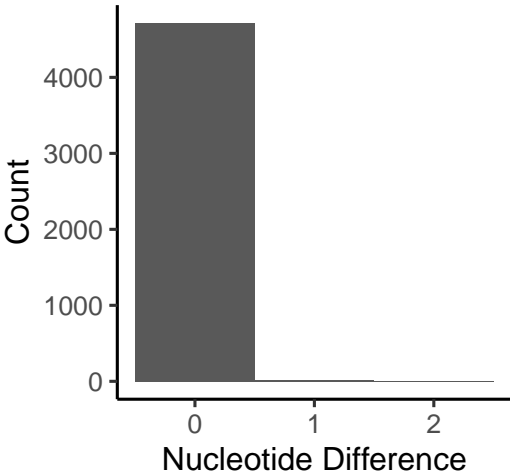
TRBV6-8\*ap01

129 sequences assigned  
129 (100%) exact matches, in which:  
126 unique CDR3  
13 unique J



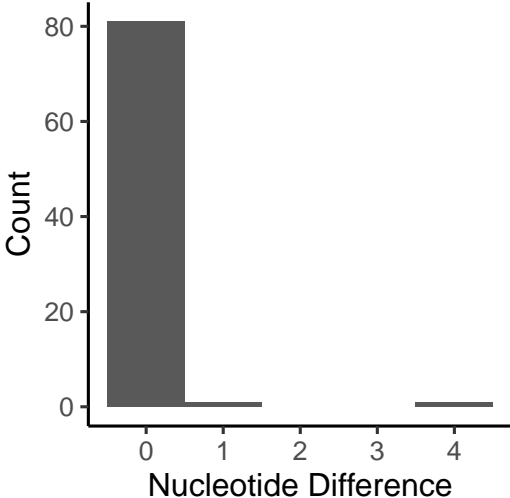
TRBV6-56\*ap01

4731 sequences assigned  
4715 (99.7%) exact matches, in which:  
4694 unique CDR3  
14 unique J



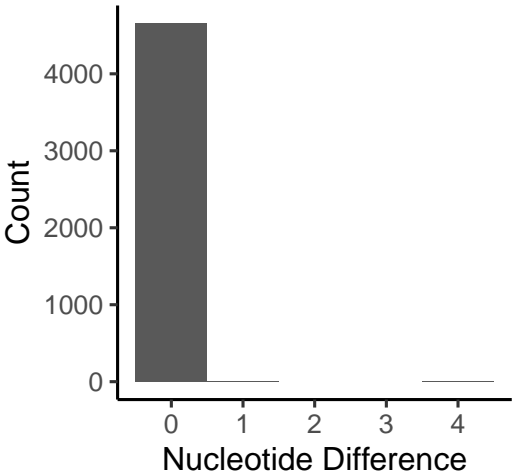
TRBV7-1\*ap01\_G291C\_T

83 sequences assigned  
81 (97.6%) exact matches, in which:  
81 unique CDR3  
13 unique J



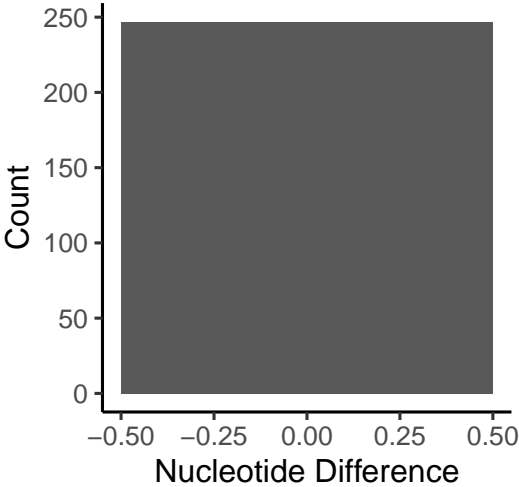
TRBV7-2\*ap01

4663 sequences assigned  
4655 (99.8%) exact matches, in which:  
4648 unique CDR3  
14 unique J



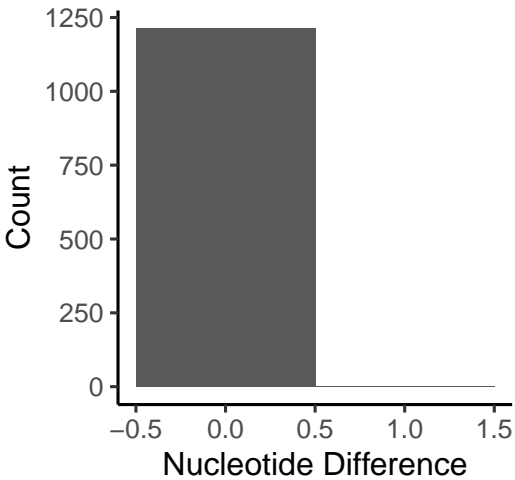
TRBV7-4\*ap01

247 sequences assigned  
247 (100%) exact matches, in which:  
246 unique CDR3  
12 unique J



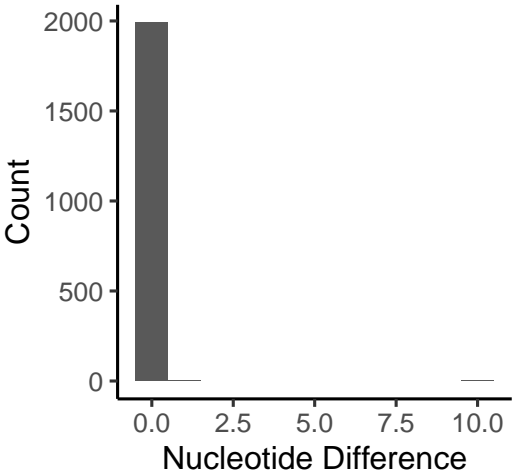
TRBV7-8\*ap01

1214 sequences assigned  
1213 (99.9%) exact matches, in which:  
1211 unique CDR3  
14 unique J



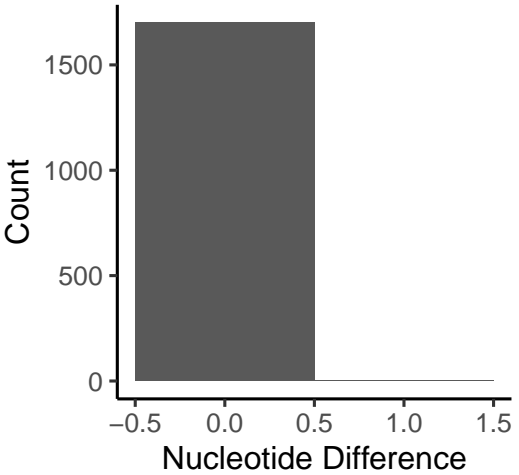
TRBV7-3\*ap01

1996 sequences assigned  
1990 (99.7%) exact matches, in which:  
1983 unique CDR3  
14 unique J



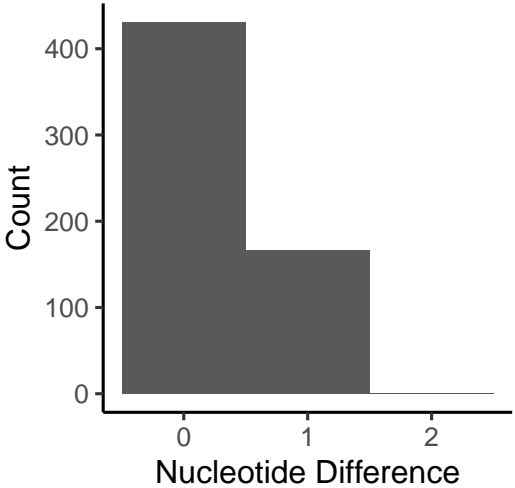
TRBV7-6\*ap01

1703 sequences assigned  
1700 (99.8%) exact matches, in which:  
1696 unique CDR3  
14 unique J



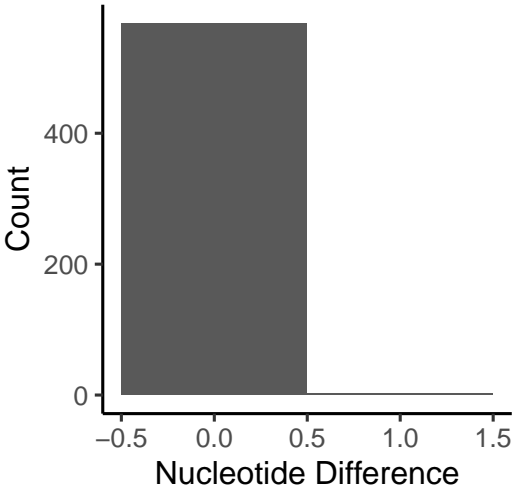
TRBV7-8\*ap03

598 sequences assigned  
431 (72.1%) exact matches, in which:  
431 unique CDR3  
14 unique J



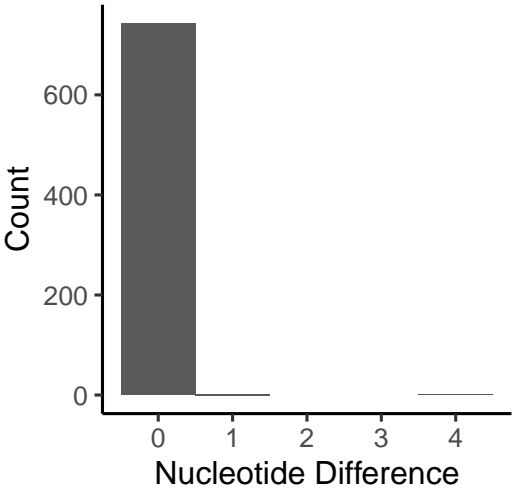
TRBV7-3\*ap02

570 sequences assigned  
568 (99.6%) exact matches, in which:  
567 unique CDR3  
12 unique J



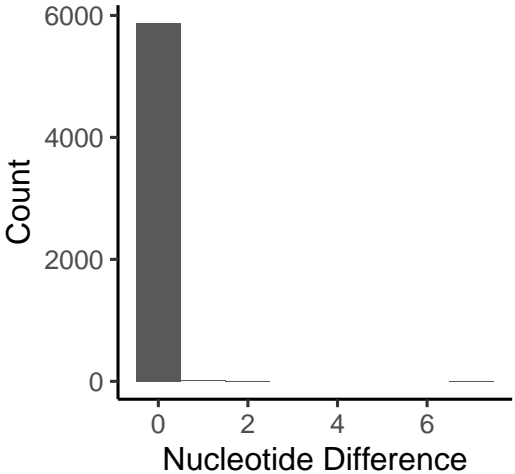
TRBV7-7\*ap01\_C315T

746 sequences assigned  
743 (99.6%) exact matches, in which:  
740 unique CDR3  
14 unique J



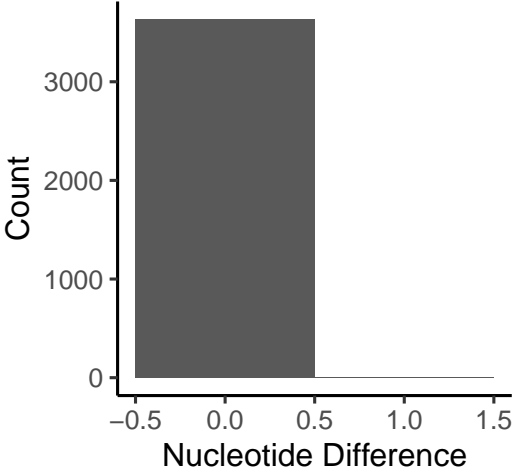
TRBV7-9\*ap01

5888 sequences assigned  
5875 (99.8%) exact matches, in which:  
5867 unique CDR3  
14 unique J



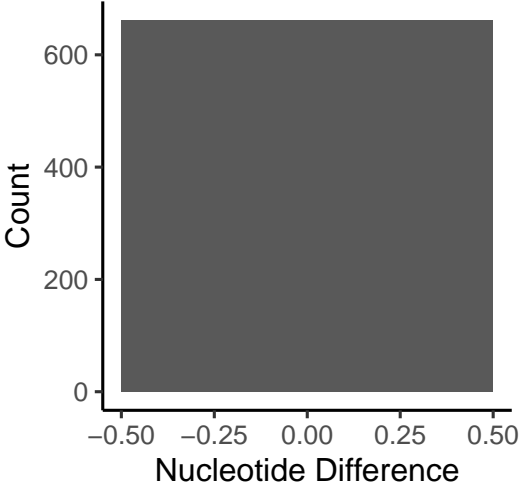
# TRBV29-1\*ap01

3641 sequences assigned  
3632 (99.8%) exact matches, in which:  
3629 unique CDR3  
14 unique J

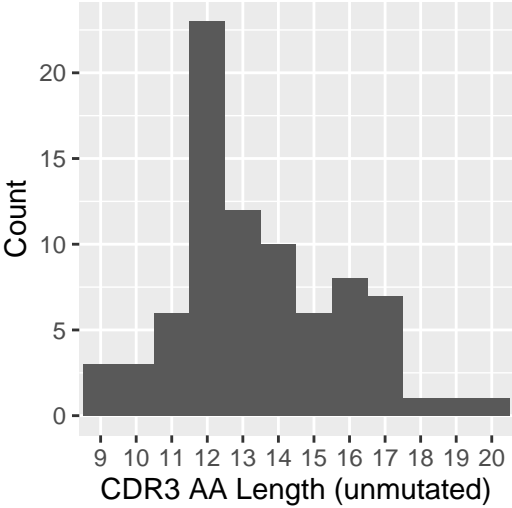


# TRBV29-1\*ap02

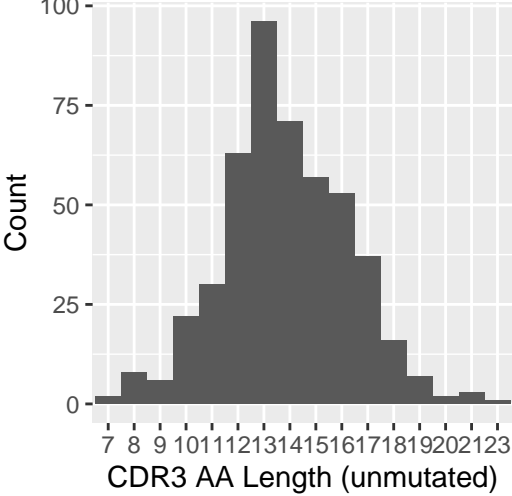
662 sequences assigned  
662 (100%) exact matches, in which:  
661 unique CDR3  
14 unique J



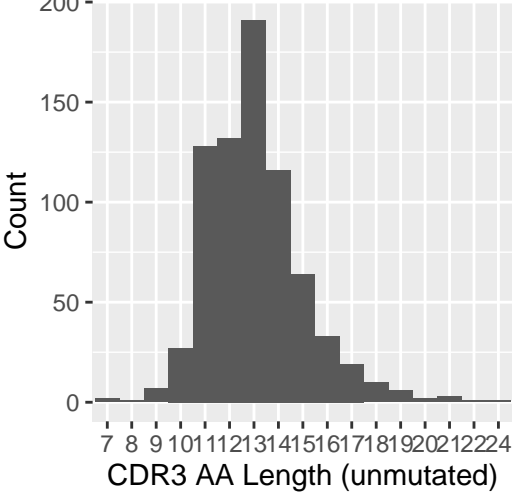
TRBV7-1\*ap01\_G291C\_T296C



TRBV23-1\*ap01\_T304C



TRBV7-7\*ap01\_C315T





Sequence Count by TRBJ2-7 allele usage

