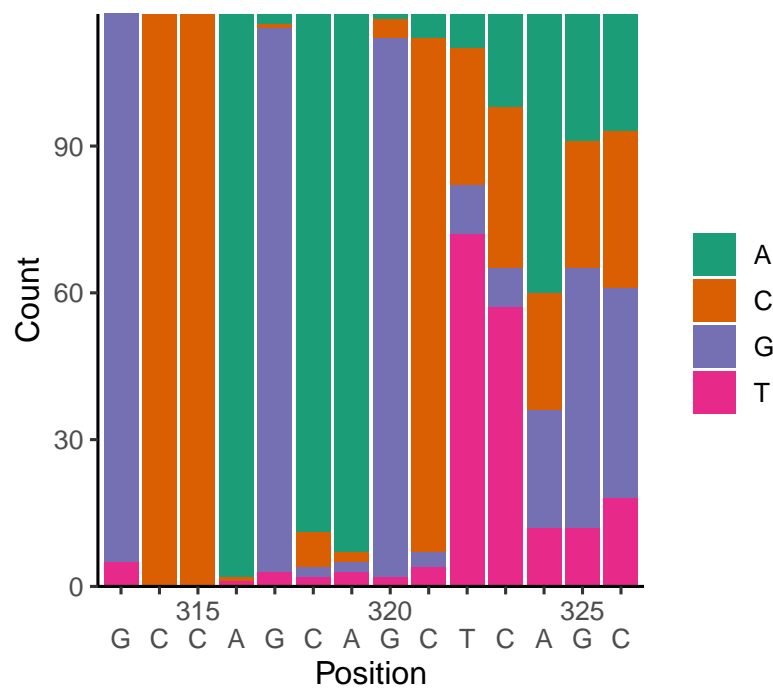
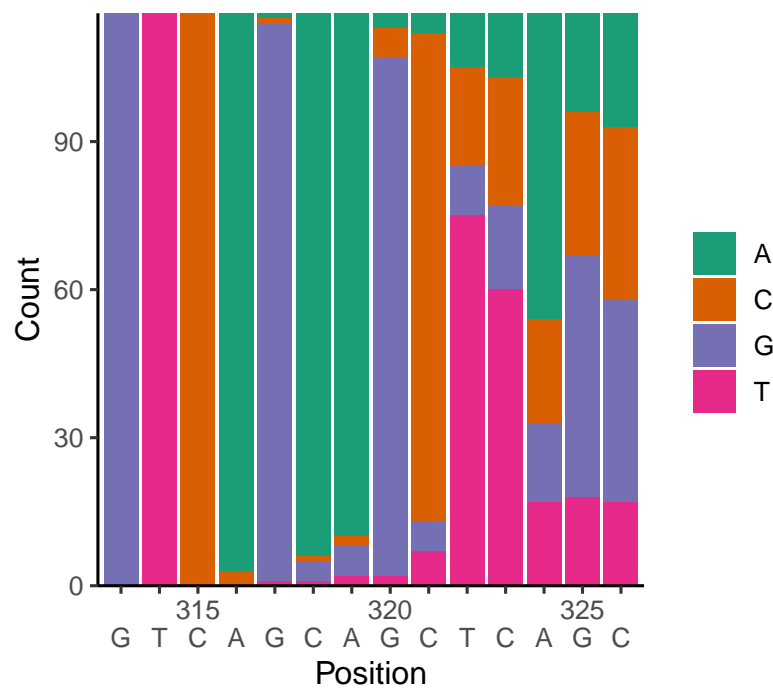


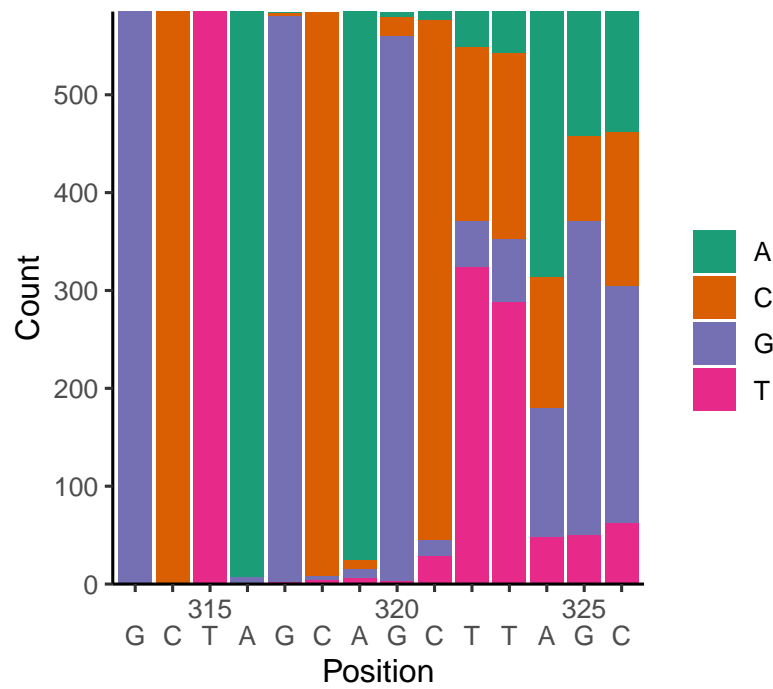
Gene TRBV7-1\*ap01\_G291C\_T296C



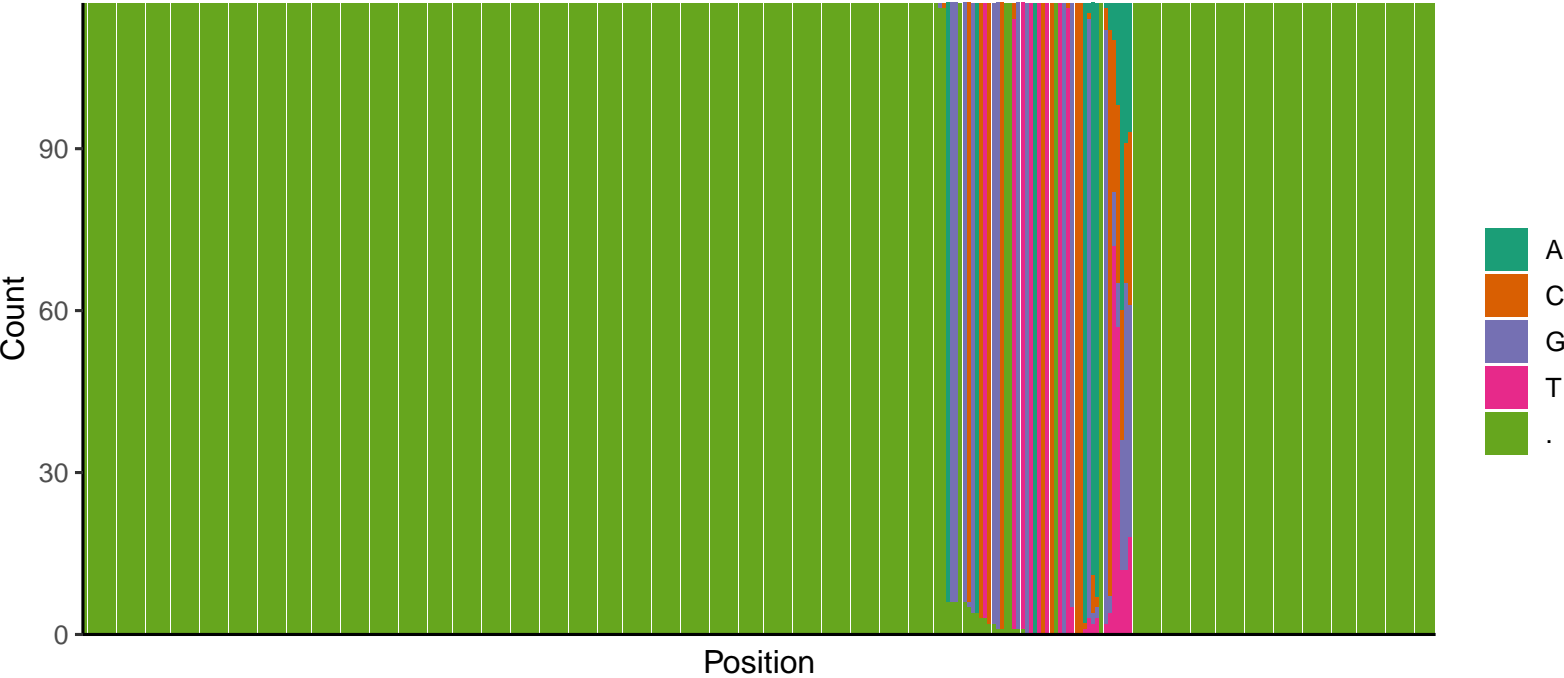
Gene TRBV7-1\*ap01\_G291C\_T296C\_C314T



Gene TRBV7-7\*ap01\_C315T



Gene TRBV7-1\*ap01\_G291C\_T296C



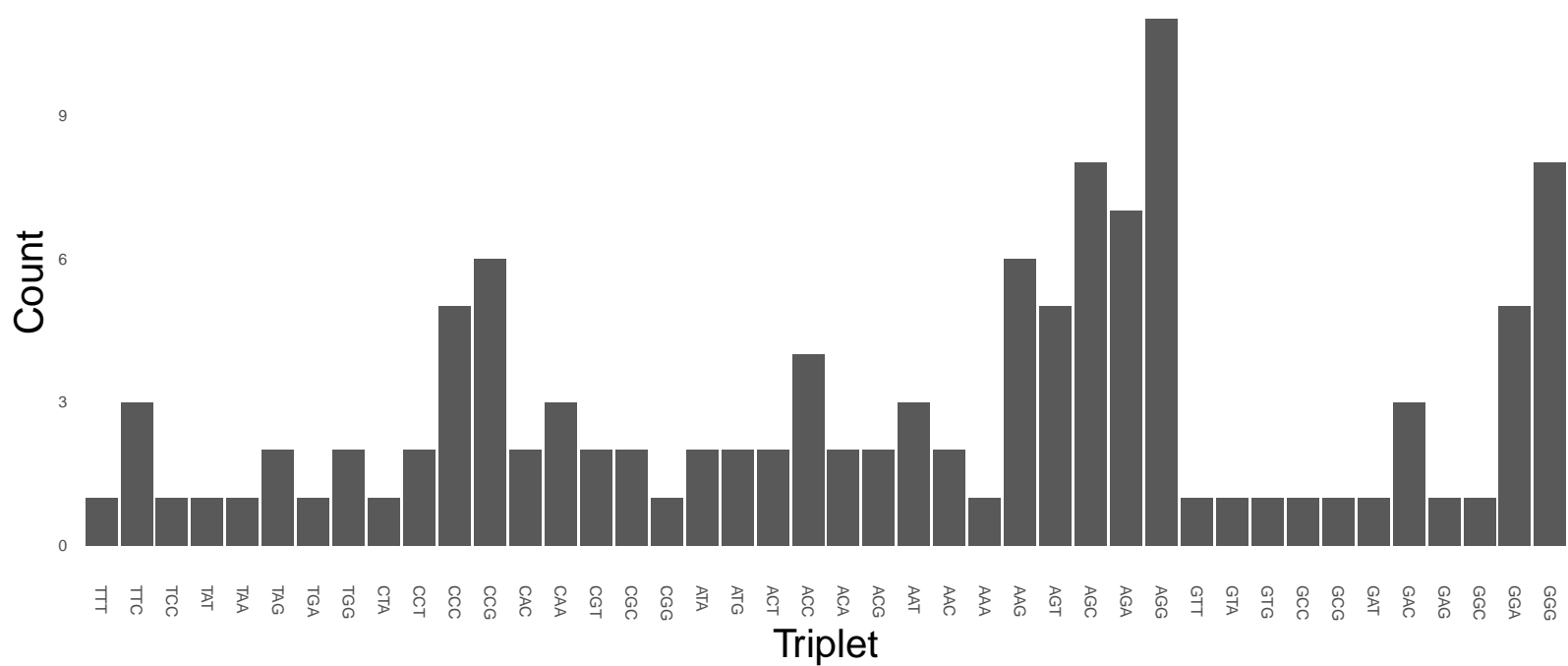
Gene TRBV7-1\*ap01\_G291C\_T296C\_C314T



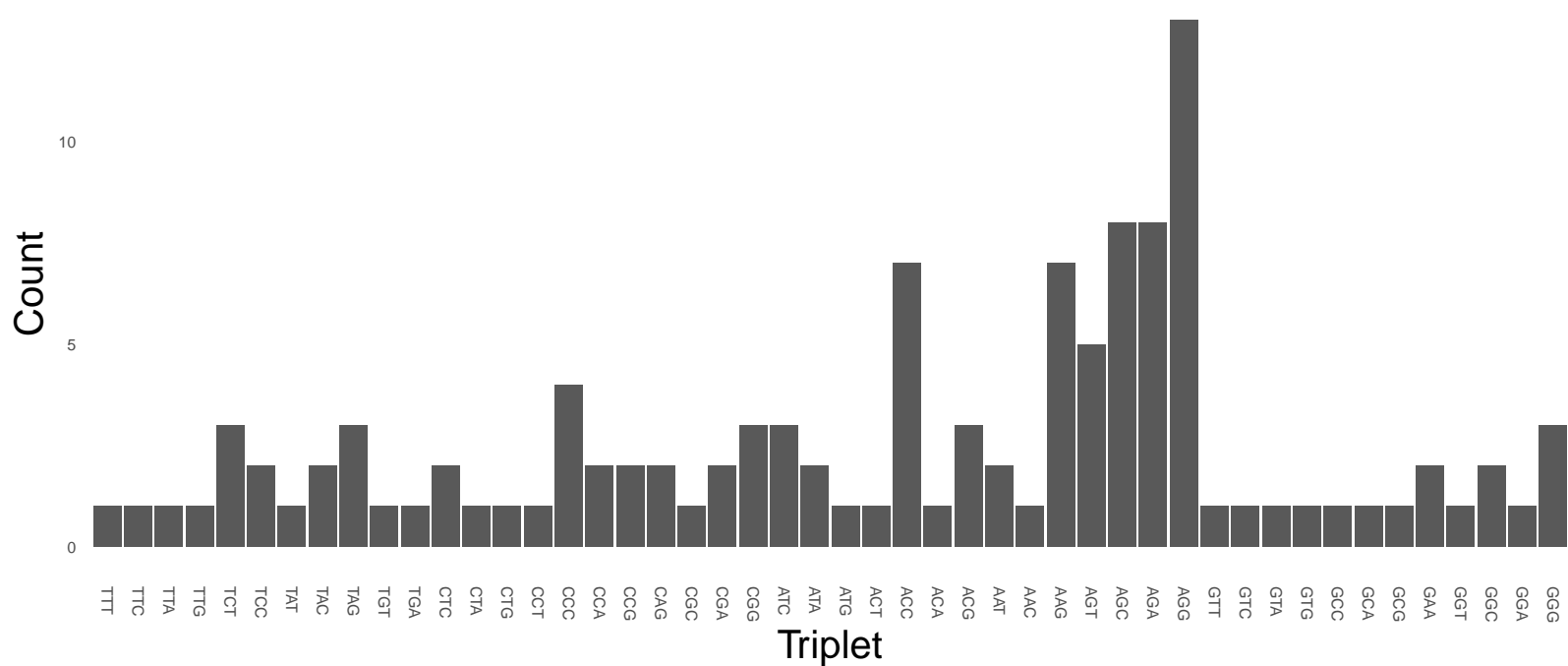
Gene TRBV7-7\*ap01\_C315T



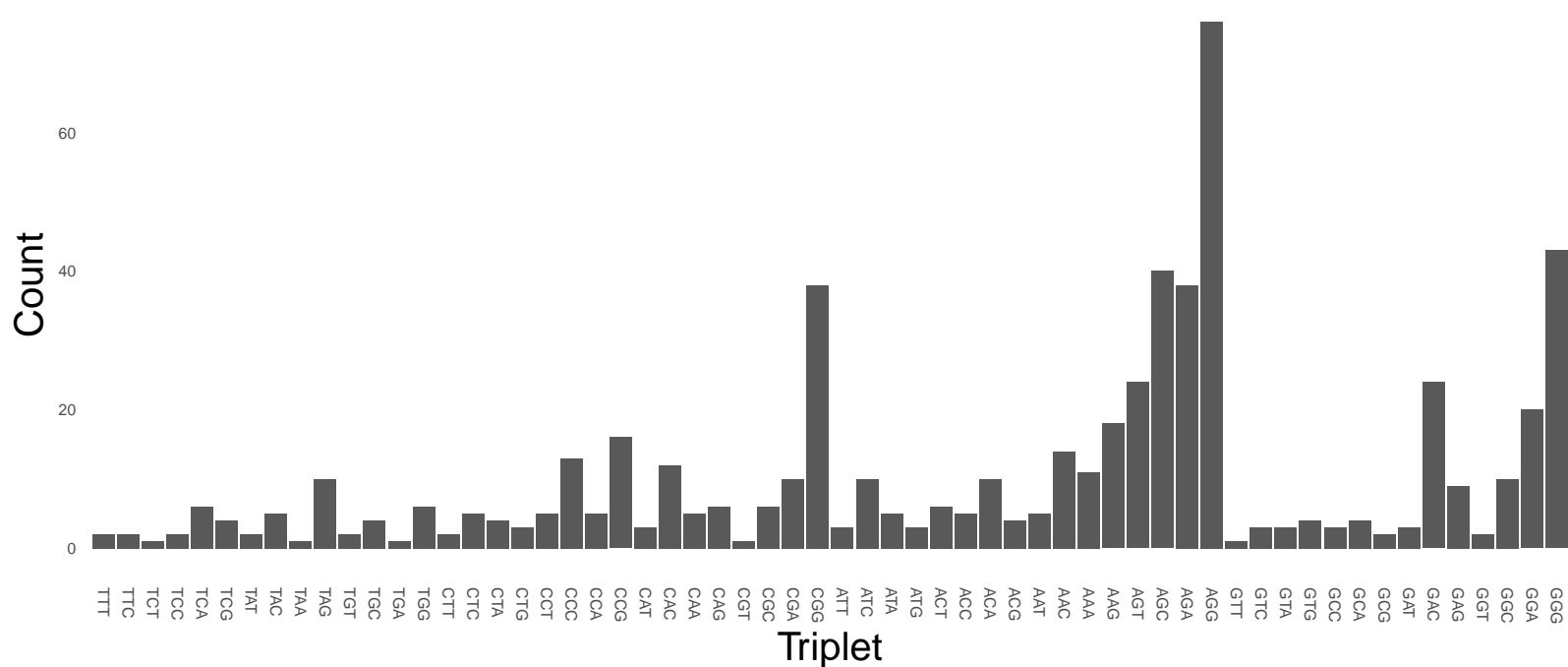
TRBV7-1\*ap01\_G291C\_T296C- Final 3 nucleotides as a triplet



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

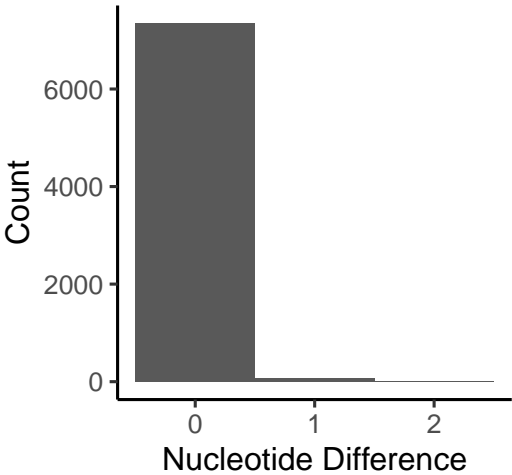


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



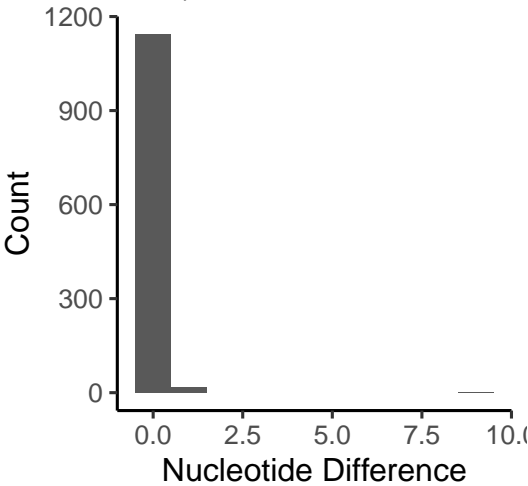
TRBV20-1\*ap01

7408 sequences assigned  
7345 (99.1%) exact matches, in which:  
7160 unique CDR3  
13 unique J



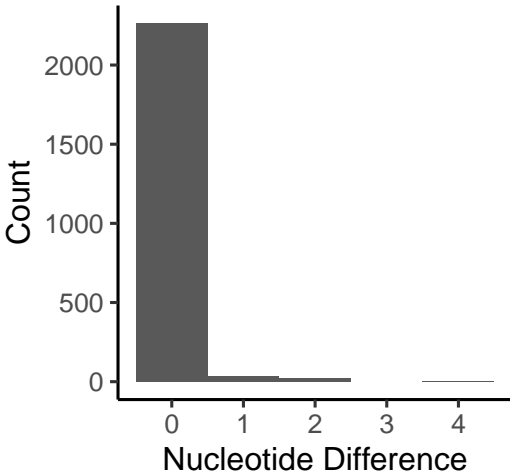
TRBV10-2\*ap01

1161 sequences assigned  
1143 (98.4%) exact matches, in which:  
1101 unique CDR3  
13 unique J



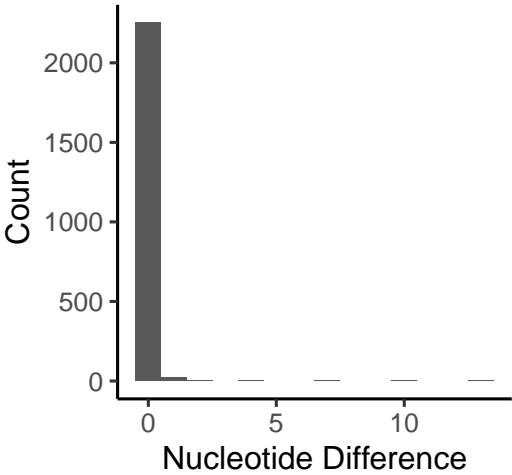
TRBV13\*ap01

2318 sequences assigned  
2263 (97.6%) exact matches, in which:  
2187 unique CDR3  
13 unique J



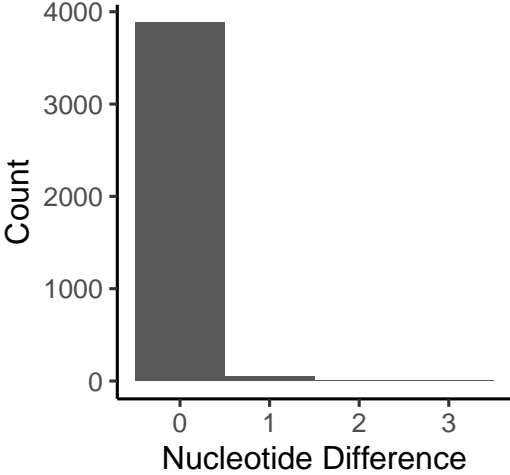
TRBV10-1\*ap01

2284 sequences assigned  
2252 (98.6%) exact matches, in which:  
2190 unique CDR3  
14 unique J



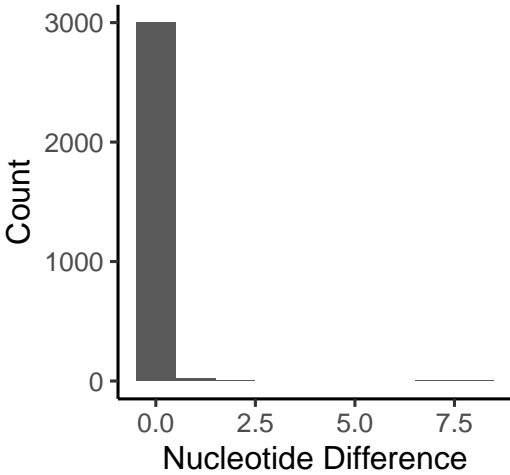
TRBV10-3\*ap01

3944 sequences assigned  
3881 (98.4%) exact matches, in which:  
3774 unique CDR3  
13 unique J



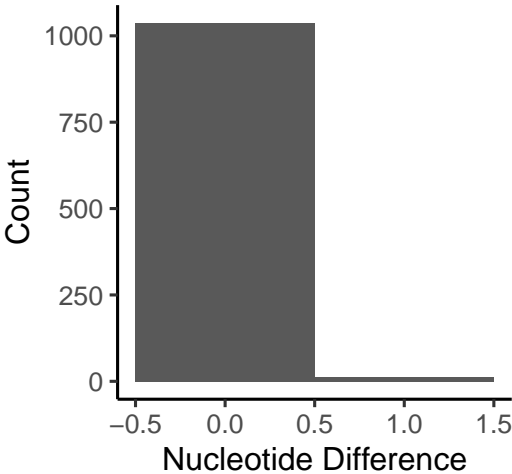
TRBV14\*ap01

3025 sequences assigned  
2999 (99.1%) exact matches, in which:  
2926 unique CDR3  
13 unique J



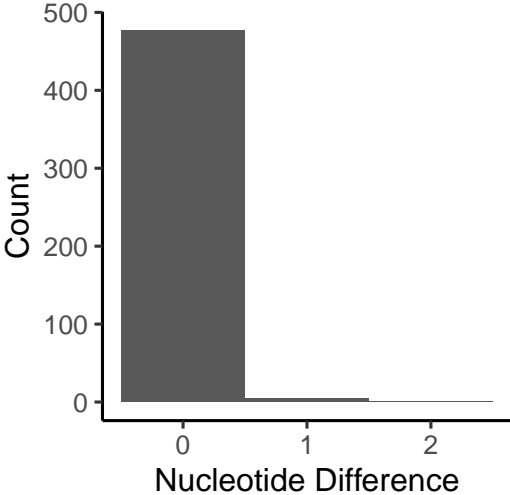
TRBV20-1\*ap02

1049 sequences assigned  
1037 (98.9%) exact matches, in which:  
1013 unique CDR3  
13 unique J



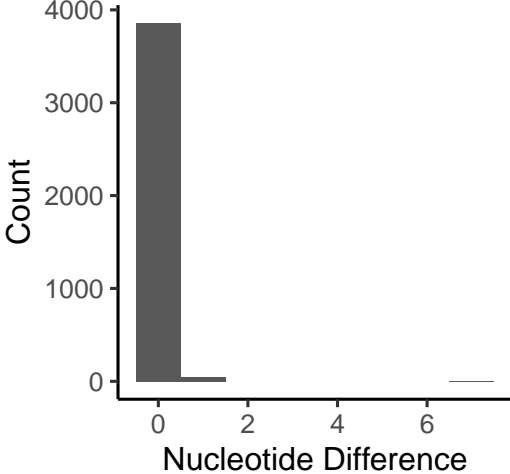
TRBV1\*ap01

482 sequences assigned  
477 (99%) exact matches, in which:  
469 unique CDR3  
13 unique J



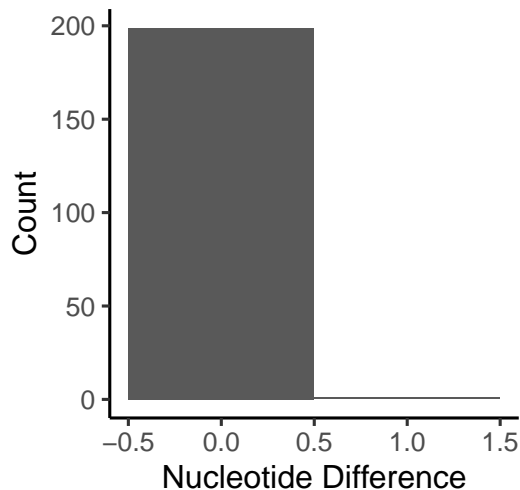
TRBV15\*ap02

3905 sequences assigned  
3858 (98.8%) exact matches, in which:  
3746 unique CDR3  
13 unique J



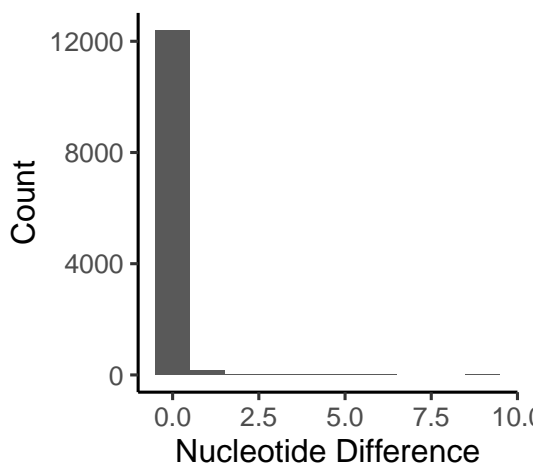
### TRBV16\*ap01

200 sequences assigned  
199 (99.5%) exact matches, in which:  
197 unique CDR3  
12 unique J



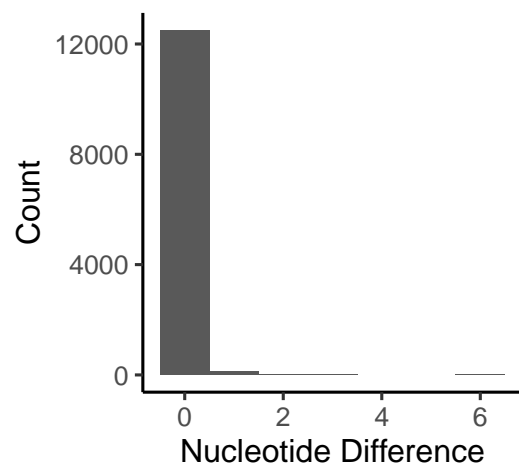
### TRBV19\*ap01

12572 sequences assigned  
12400 (98.6%) exact matches, in which:  
12164 unique CDR3  
13 unique J



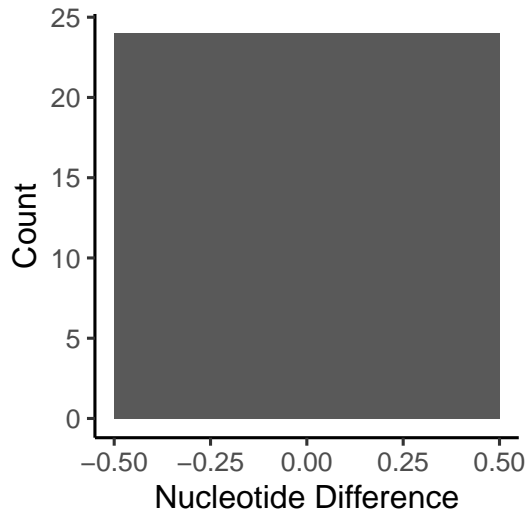
### TRBV28\*ap01

12645 sequences assigned  
12502 (98.9%) exact matches, in which:  
12156 unique CDR3  
13 unique J



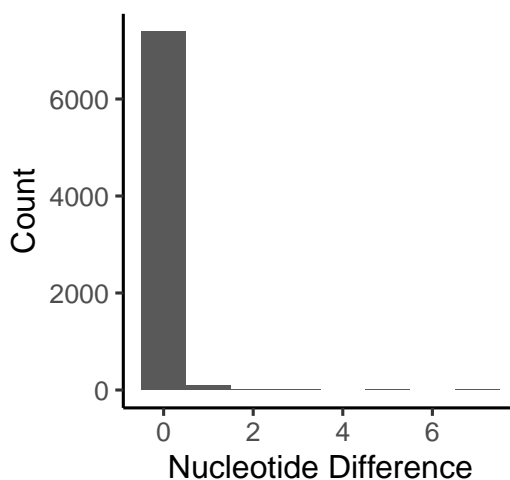
### TRBV17\*ap01

24 sequences assigned  
24 (100%) exact matches, in which:  
22 unique CDR3  
9 unique J



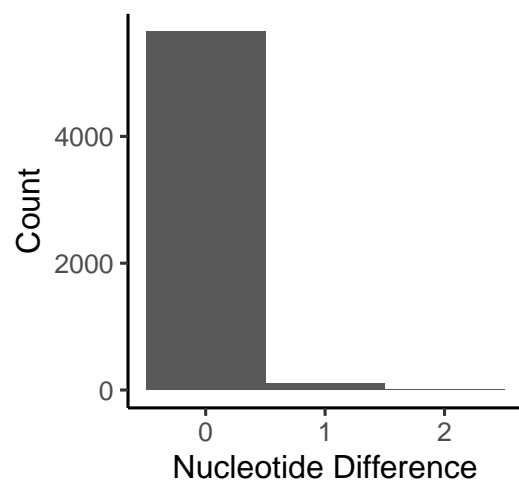
### TRBV2\*ap01

7497 sequences assigned  
7387 (98.5%) exact matches, in which:  
7233 unique CDR3  
13 unique J



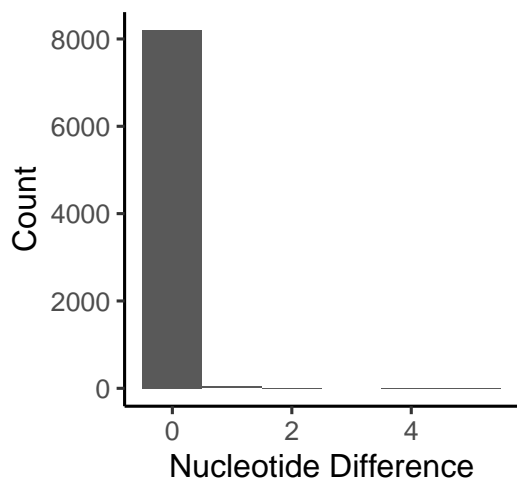
### TRBV30\*ap01

5757 sequences assigned  
5651 (98.2%) exact matches, in which:  
5559 unique CDR3  
13 unique J



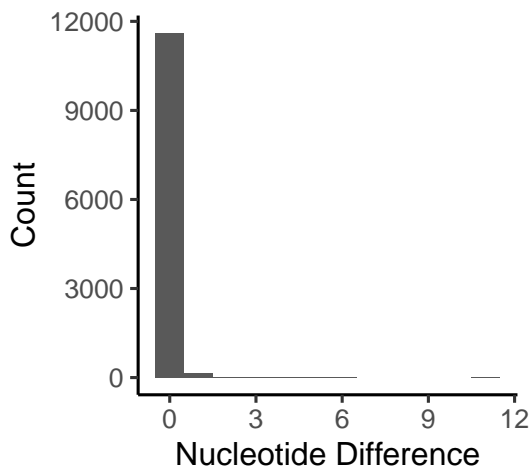
### TRBV18\*ap01

8252 sequences assigned  
8204 (99.4%) exact matches, in which:  
8058 unique CDR3  
13 unique J



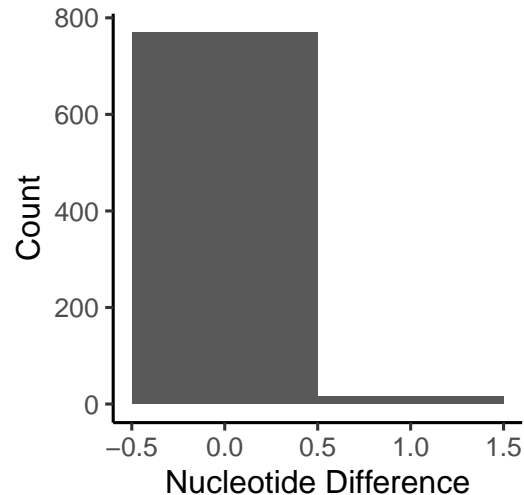
### TRBV27\*ap01

11793 sequences assigned  
11615 (98.5%) exact matches, in which:  
11260 unique CDR3  
13 unique J



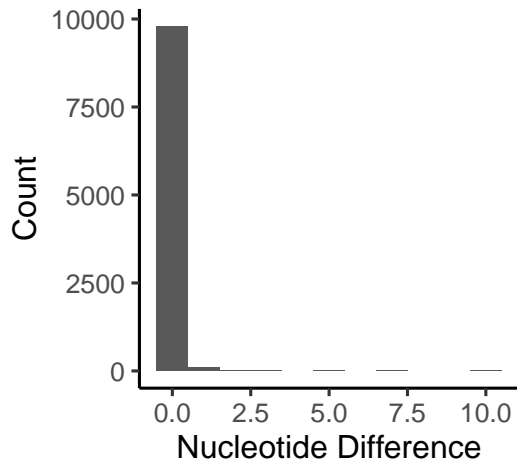
### TRBV30\*ap03

785 sequences assigned  
770 (98.1%) exact matches, in which:  
758 unique CDR3  
13 unique J



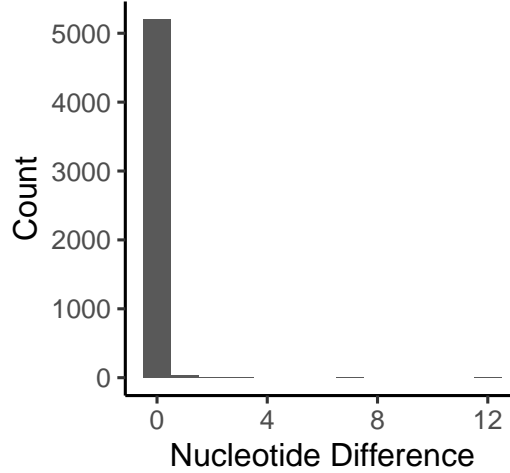
### TRBV9\*ap01

9897 sequences assigned  
9797 (99%) exact matches, in which:  
9598 unique CDR3  
13 unique J



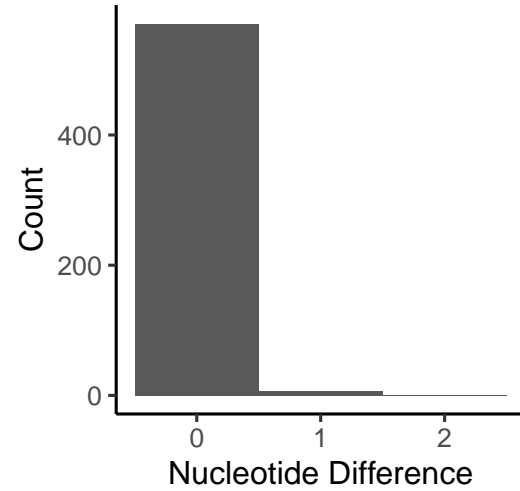
### TRBV11-2\*ap01

5242 sequences assigned  
5201 (99.2%) exact matches, in which:  
5093 unique CDR3  
13 unique J



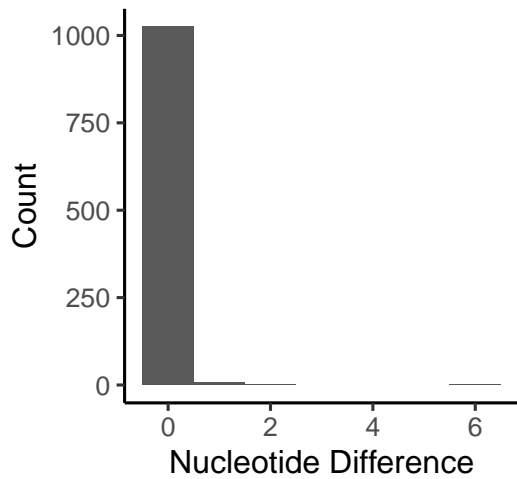
### TRBV12-2\*ap01

579 sequences assigned  
571 (98.6%) exact matches, in which:  
560 unique CDR3  
13 unique J



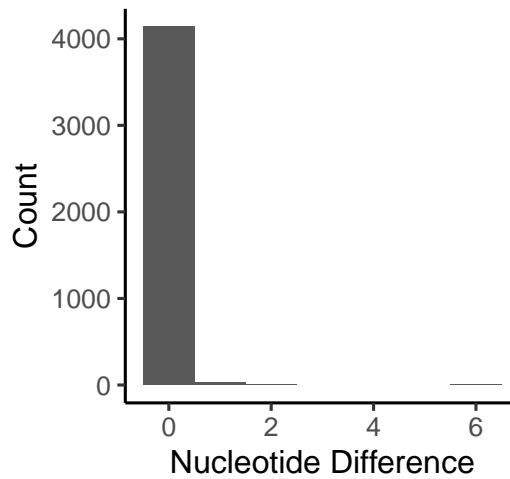
### TRBV11-1\*ap01

1034 sequences assigned  
1025 (99.1%) exact matches, in which:  
995 unique CDR3  
13 unique J



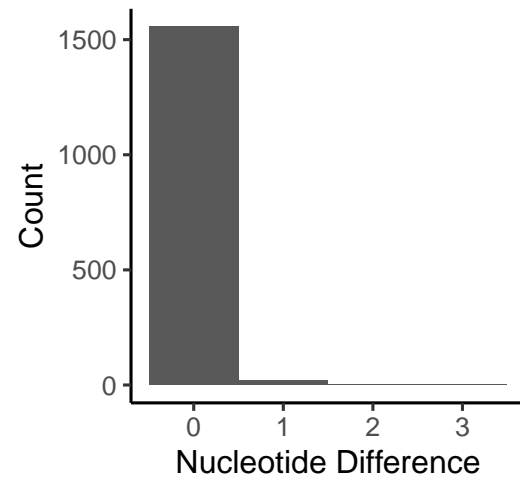
### TRBV11-3\*ap01

4174 sequences assigned  
4140 (99.2%) exact matches, in which:  
4047 unique CDR3  
13 unique J



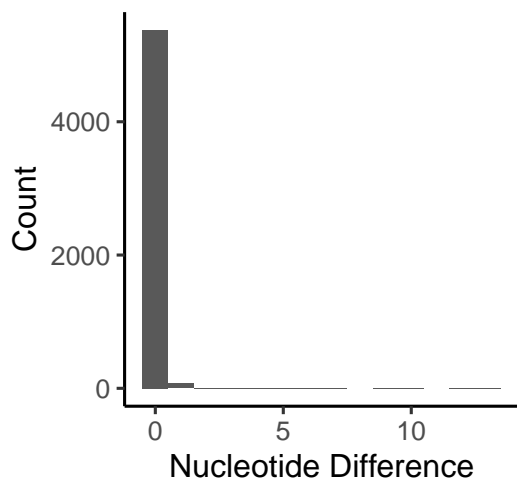
### TRBV12-5\*ap01

1578 sequences assigned  
1556 (98.6%) exact matches, in which:  
1522 unique CDR3  
13 unique J



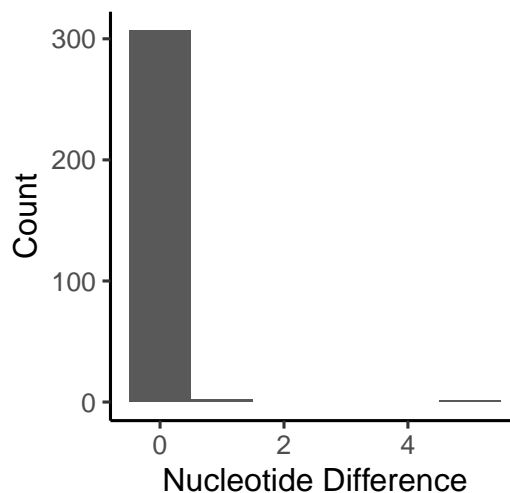
### TRBV21-1\*ap01

5482 sequences assigned  
5376 (98.1%) exact matches, in which:  
5240 unique CDR3  
13 unique J



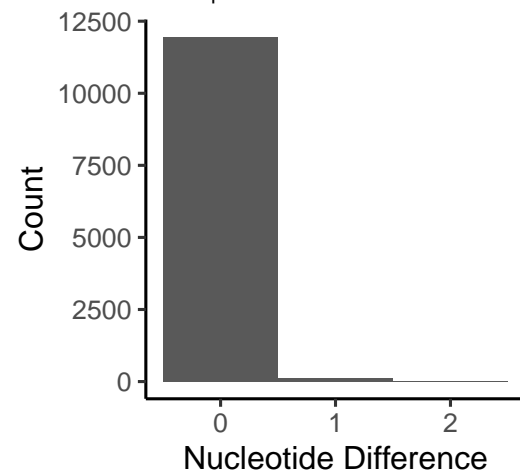
### TRBV12-1\*ap01

310 sequences assigned  
307 (99%) exact matches, in which:  
302 unique CDR3  
13 unique J



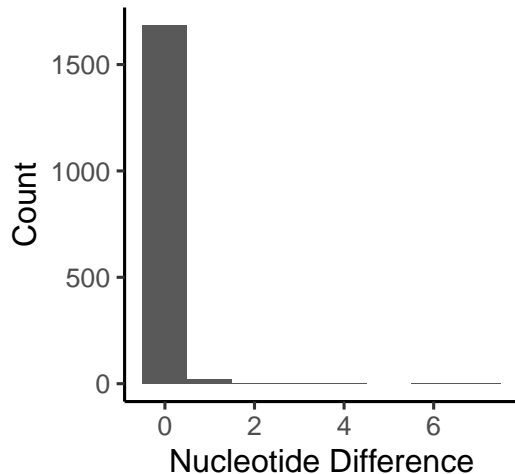
### TRBV12-34\*ap01

12094 sequences assigned  
11959 (98.9%) exact matches, in which:  
11662 unique CDR3  
13 unique J



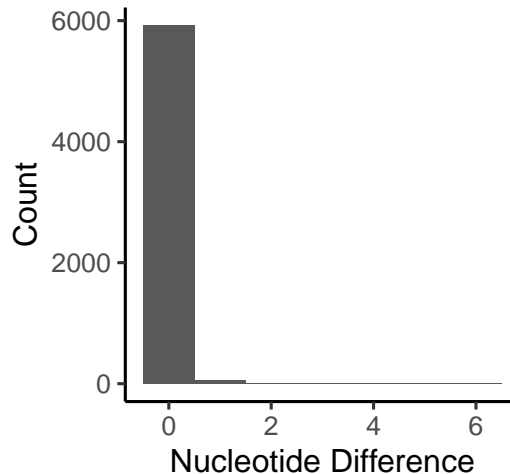
### TRBV23-1\*ap01

1710 sequences assigned  
1684 (98.5%) exact matches, in which:  
1631 unique CDR3  
13 unique J



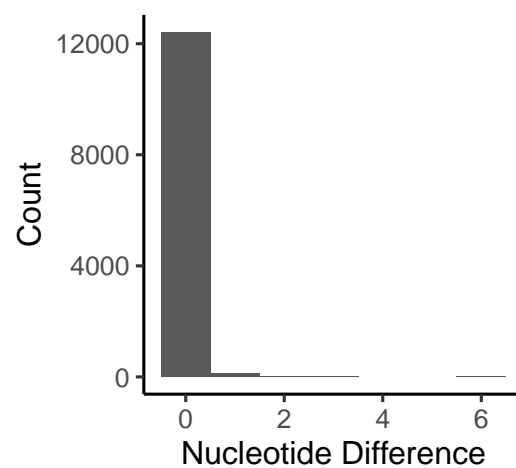
### TRBV24-1\*ap01

5996 sequences assigned  
5921 (98.7%) exact matches, in which:  
5799 unique CDR3  
13 unique J



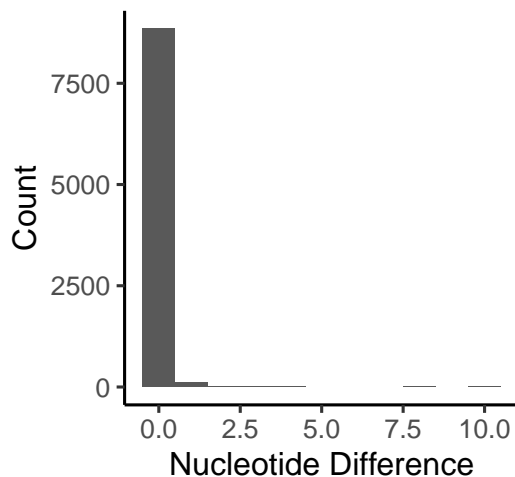
### TRBV5-1\*ap01

12535 sequences assigned  
12416 (99.1%) exact matches, in which:  
12067 unique CDR3  
13 unique J



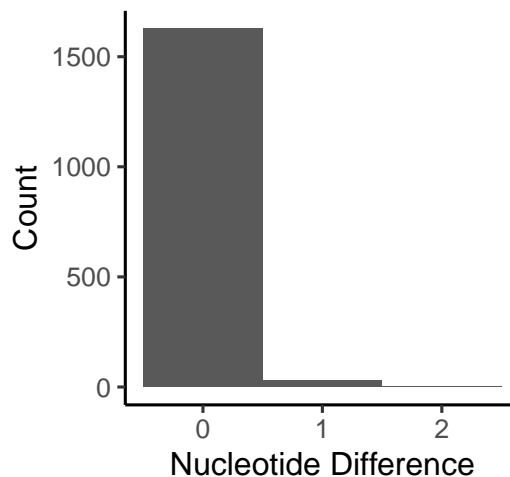
### TRBV3-12\*ap01

8968 sequences assigned  
8847 (98.7%) exact matches, in which:  
8623 unique CDR3  
13 unique J



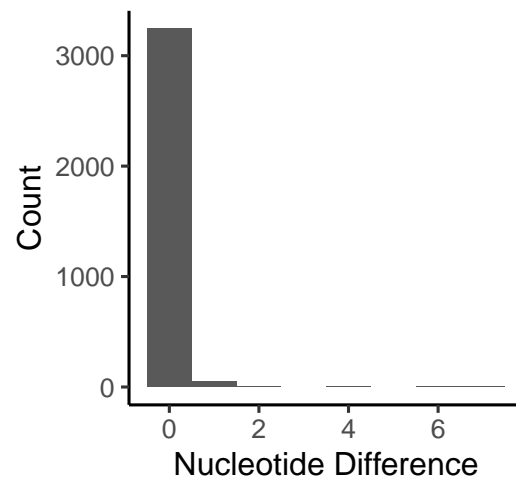
### TRBV4-2\*ap01

1657 sequences assigned  
1627 (98.2%) exact matches, in which:  
1583 unique CDR3  
13 unique J



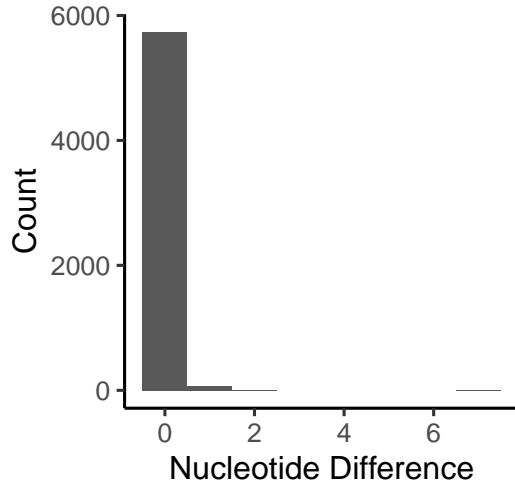
### TRBV25-1\*ap01

3307 sequences assigned  
3244 (98.1%) exact matches, in which:  
3163 unique CDR3  
14 unique J



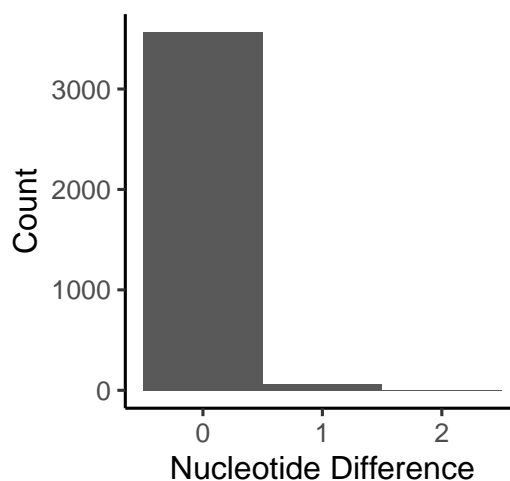
### TRBV4-1\*ap01

5810 sequences assigned  
5735 (98.7%) exact matches, in which:  
5592 unique CDR3  
13 unique J



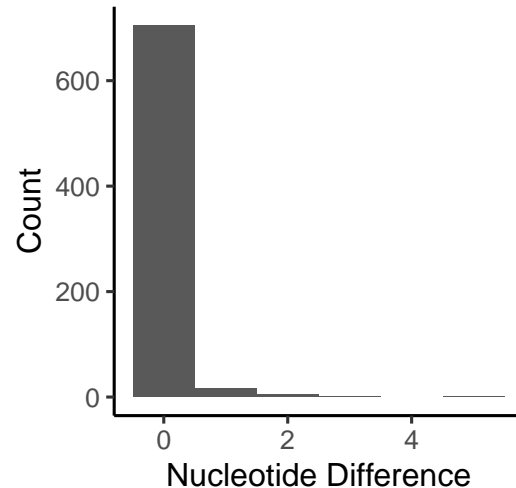
### TRBV4-3\*ap01

3633 sequences assigned  
3567 (98.2%) exact matches, in which:  
3485 unique CDR3  
13 unique J



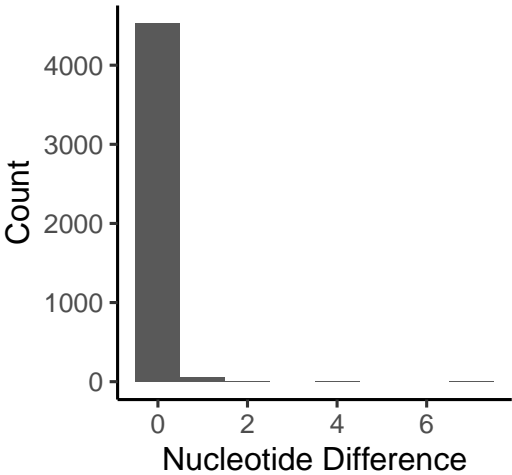
### TRBV5-3\*ap01

729 sequences assigned  
705 (96.7%) exact matches, in which:  
684 unique CDR3  
13 unique J



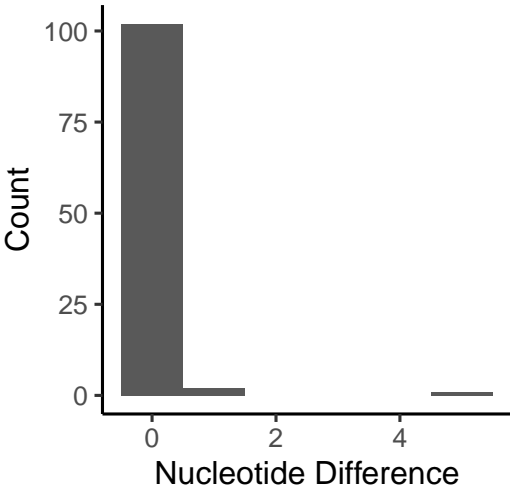
TRBV5-4\*ap01

4591 sequences assigned  
4528 (98.6%) exact matches, in which:  
4402 unique CDR3  
13 unique J



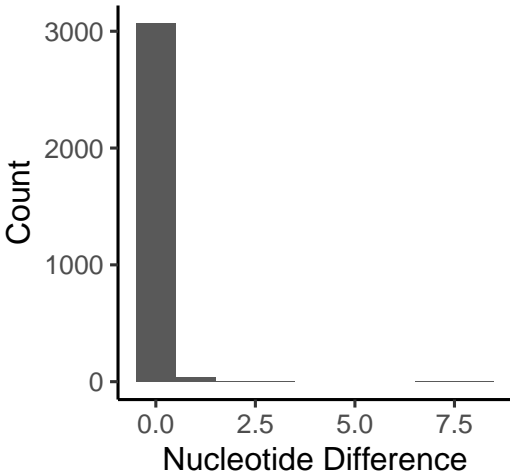
TRBV5-7\*ap01

105 sequences assigned  
102 (97.1%) exact matches, in which:  
97 unique CDR3  
12 unique J



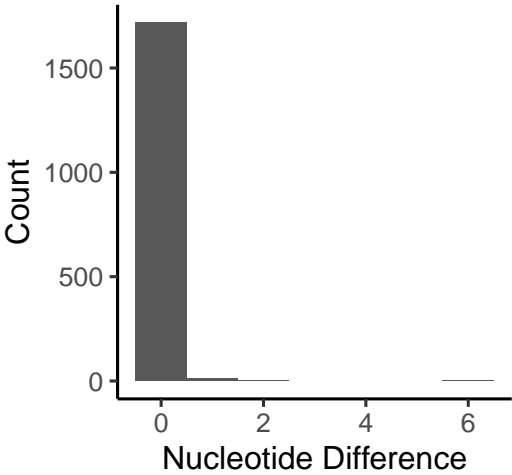
TRBV6-4\*ap01

3116 sequences assigned  
3067 (98.4%) exact matches, in which:  
3009 unique CDR3  
13 unique J



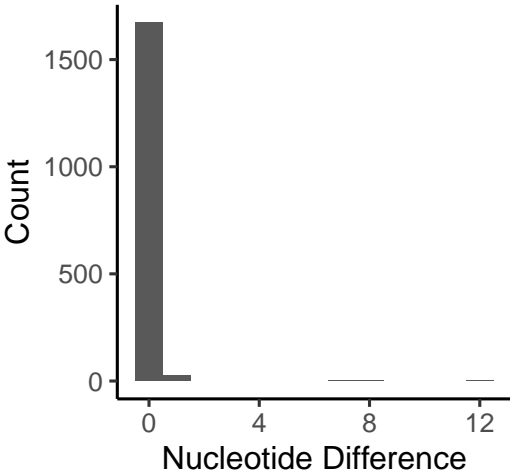
TRBV5-5\*ap01

1731 sequences assigned  
1717 (99.2%) exact matches, in which:  
1670 unique CDR3  
13 unique J



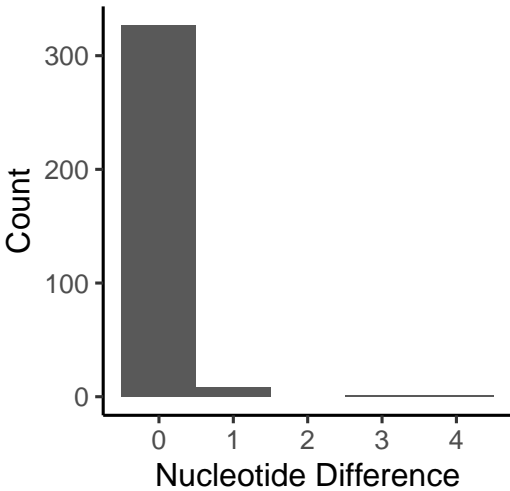
TRBV5-8\*ap01

1700 sequences assigned  
1672 (98.4%) exact matches, in which:  
1638 unique CDR3  
13 unique J



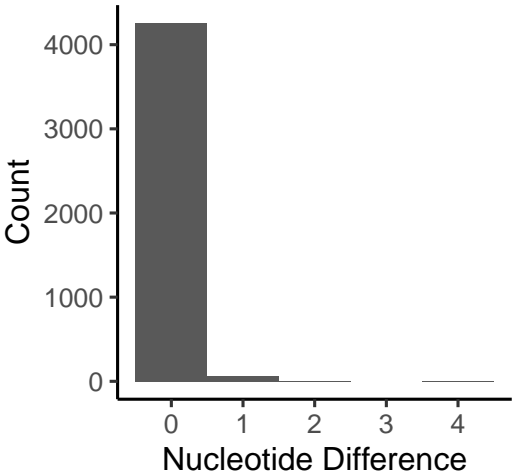
TRBV6-7\*ap01

337 sequences assigned  
327 (97%) exact matches, in which:  
316 unique CDR3  
13 unique J



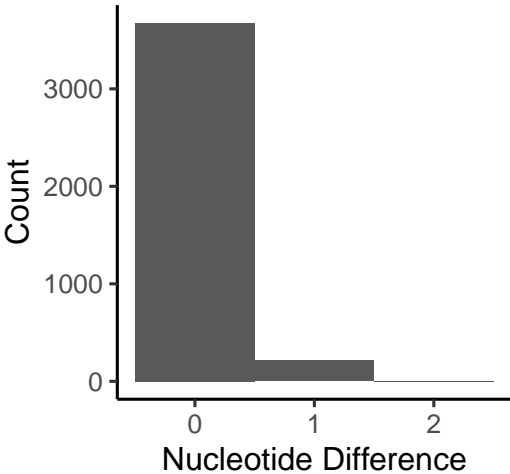
TRBV5-6\*ap01

4321 sequences assigned  
4257 (98.5%) exact matches, in which:  
4142 unique CDR3  
13 unique J



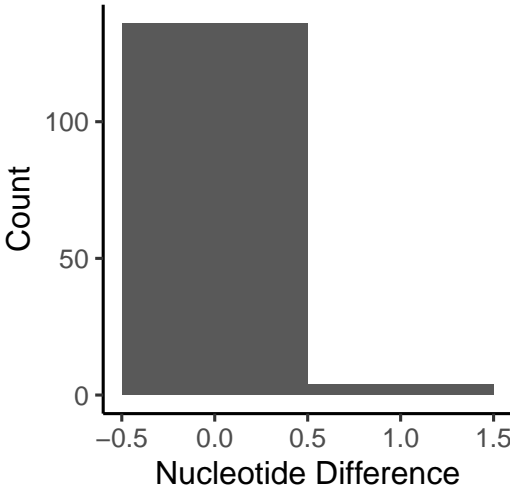
TRBV6-1\*ap01

3891 sequences assigned  
3675 (94.4%) exact matches, in which:  
3561 unique CDR3  
13 unique J



TRBV6-8\*ap01

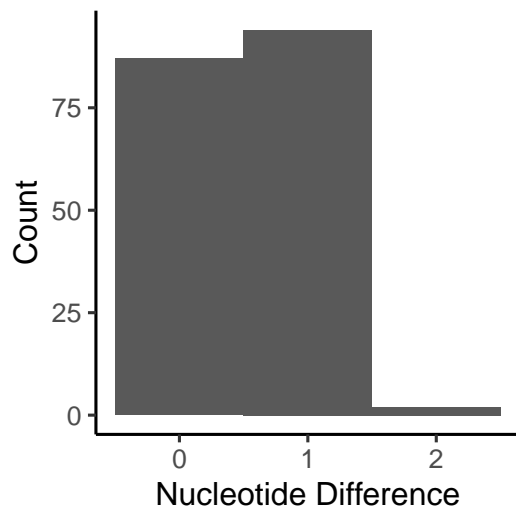
140 sequences assigned  
136 (97.1%) exact matches, in which:  
130 unique CDR3  
12 unique J





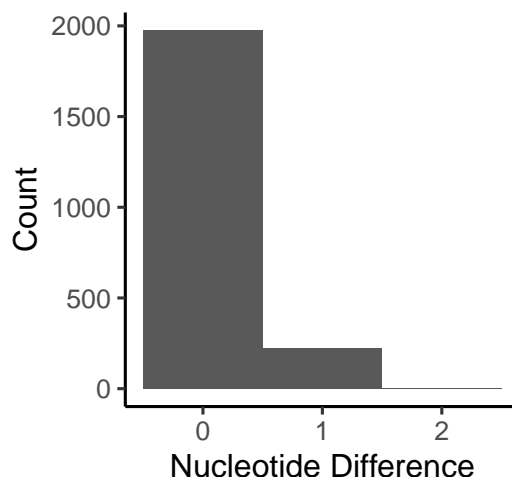
### TRBV6-9\*ap01

183 sequences assigned  
87 (47.5%) exact matches, in which:  
86 unique CDR3  
13 unique J



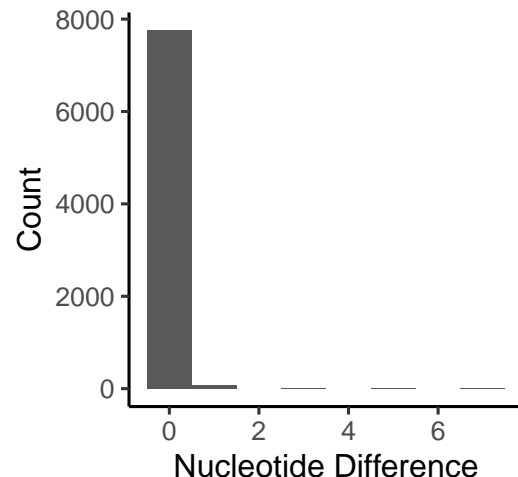
### TRBV6-56\*ap02

2199 sequences assigned  
1975 (89.8%) exact matches, in which:  
1923 unique CDR3  
13 unique J



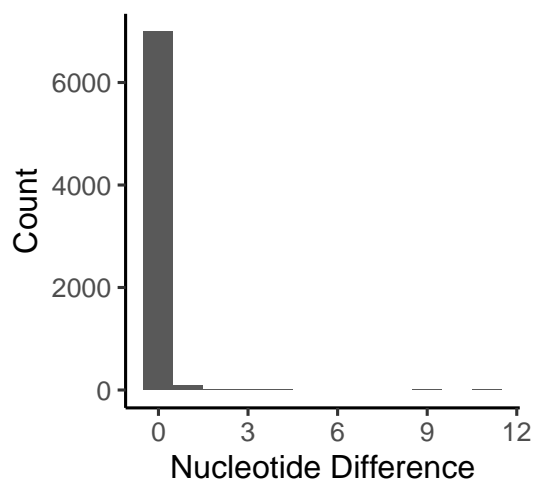
### TRBV7-2\*ap01

7824 sequences assigned  
7755 (99.1%) exact matches, in which:  
7551 unique CDR3  
13 unique J



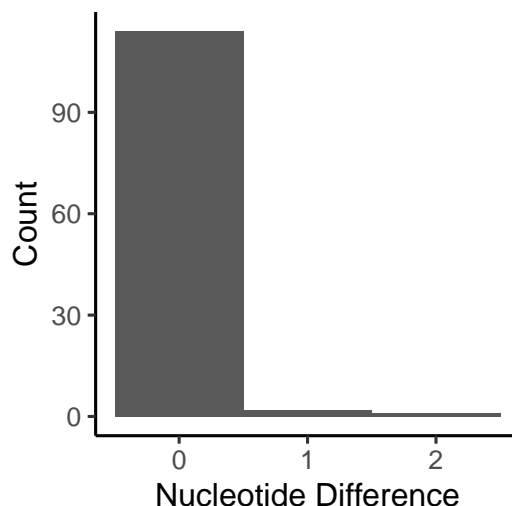
### TRBV6-23\*ap01

7088 sequences assigned  
6991 (98.6%) exact matches, in which:  
6789 unique CDR3  
13 unique J



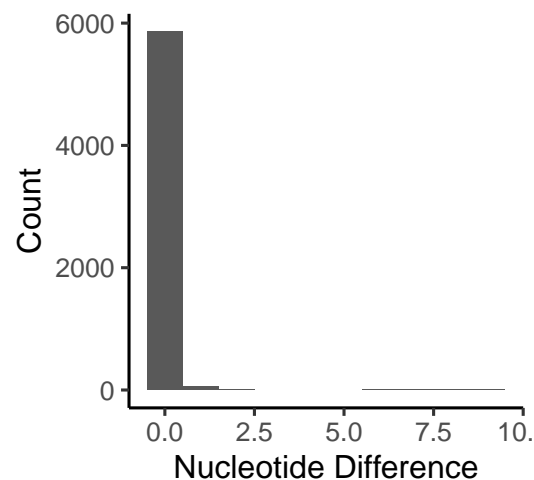
### TRBV7-1\*ap01\_G291C\_T

117 sequences assigned  
114 (97.4%) exact matches, in which:  
112 unique CDR3  
13 unique J



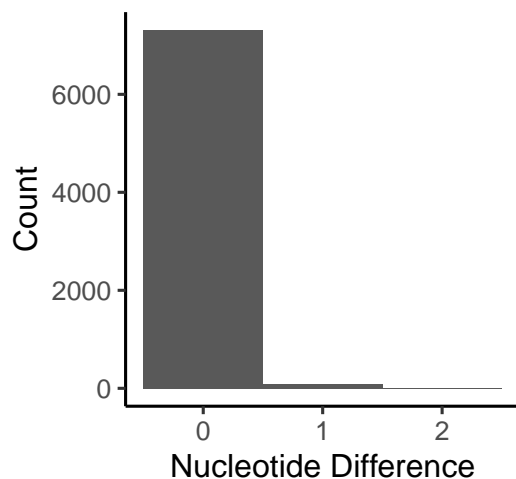
### TRBV7-3\*ap01

5929 sequences assigned  
5859 (98.8%) exact matches, in which:  
5731 unique CDR3  
13 unique J



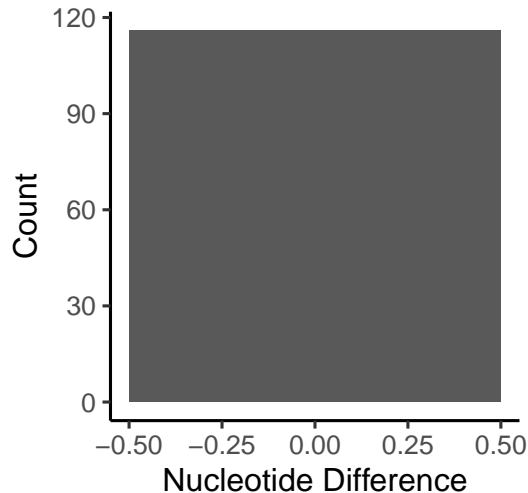
### TRBV6-56\*ap01

7402 sequences assigned  
7312 (98.8%) exact matches, in which:  
7099 unique CDR3  
13 unique J



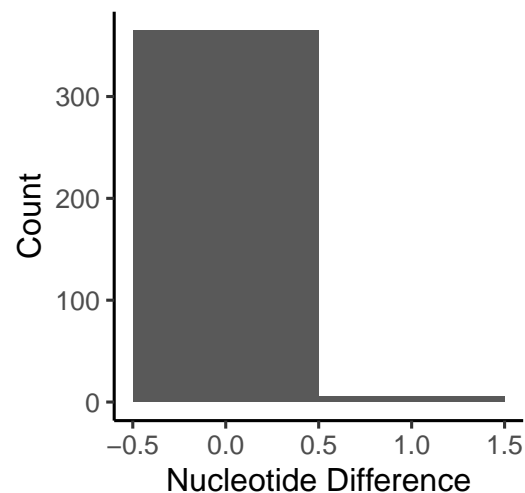
### TRBV7-1\*ap01\_G291C\_

116 sequences assigned  
116 (100%) exact matches, in which:  
115 unique CDR3  
12 unique J



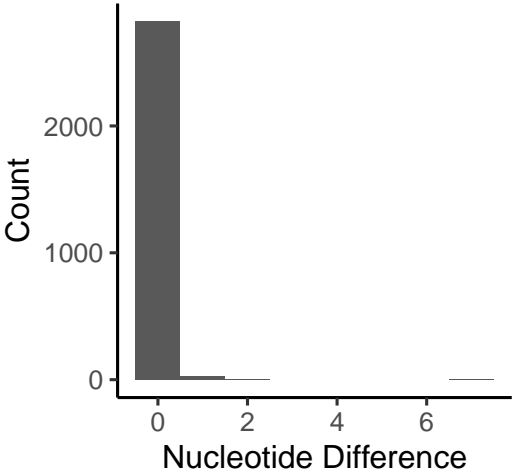
### TRBV7-4\*ap01

370 sequences assigned  
365 (98.6%) exact matches, in which:  
356 unique CDR3  
13 unique J



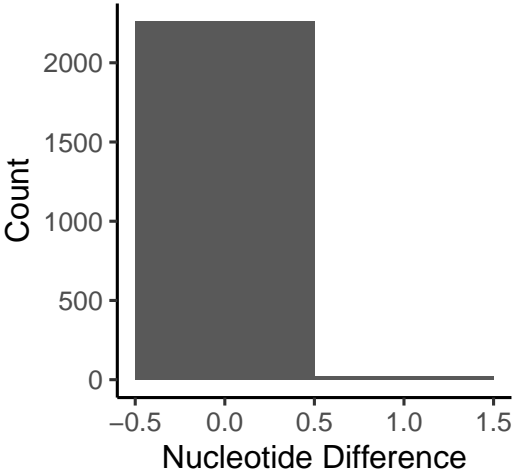
TRBV7-6\*ap01

2853 sequences assigned  
2824 (99%) exact matches, in which:  
2746 unique CDR3  
13 unique J



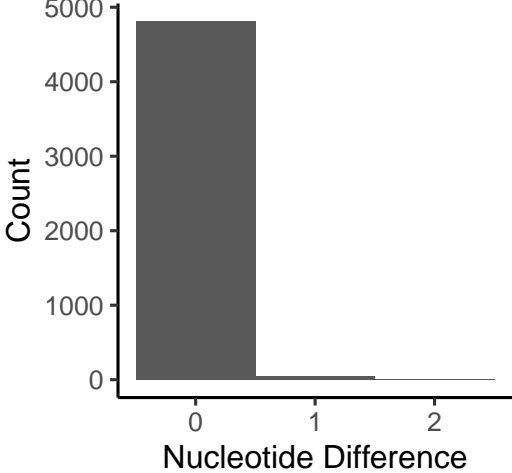
TRBV7-8\*ap01

2286 sequences assigned  
2261 (98.9%) exact matches, in which:  
2187 unique CDR3  
13 unique J



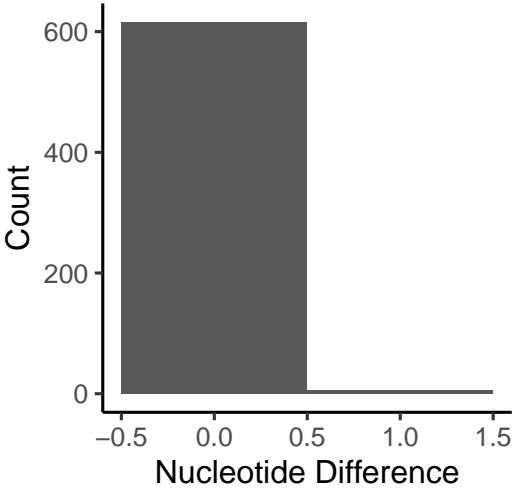
TRBV29-1\*ap01

4858 sequences assigned  
4810 (99%) exact matches, in which:  
4691 unique CDR3  
13 unique J



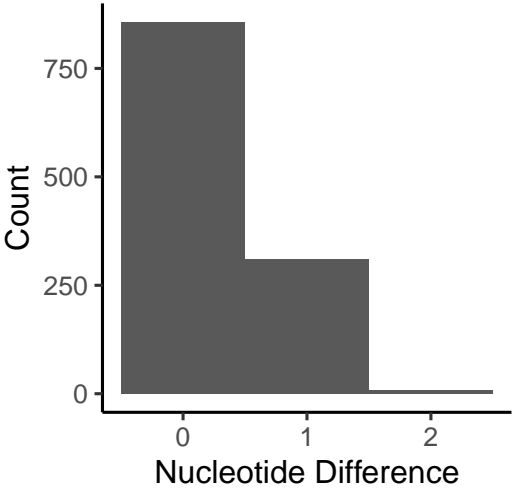
TRBV7-7\*ap01

622 sequences assigned  
616 (99%) exact matches, in which:  
604 unique CDR3  
13 unique J



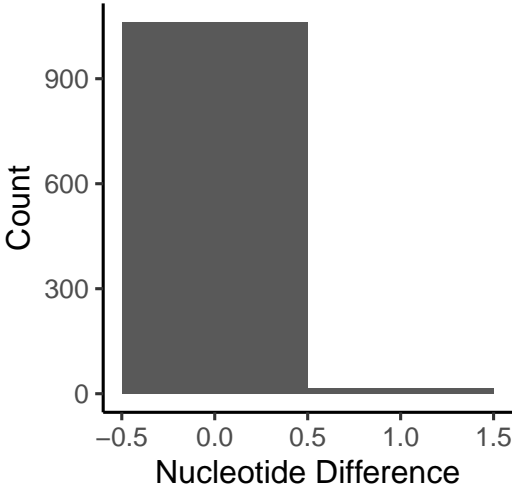
TRBV7-8\*ap03

1175 sequences assigned  
857 (72.9%) exact matches, in which:  
832 unique CDR3  
13 unique J



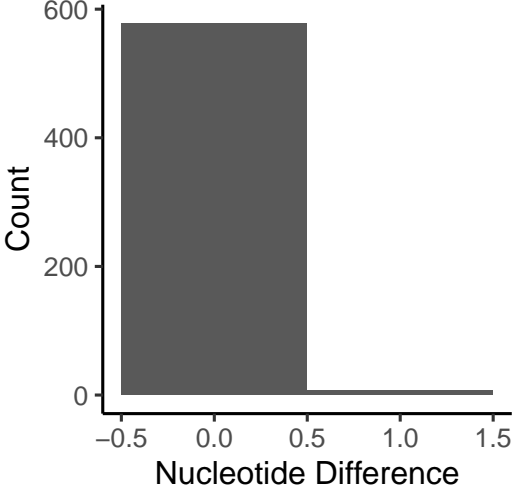
TRBV29-1\*ap02

1079 sequences assigned  
1062 (98.4%) exact matches, in which:  
1033 unique CDR3  
13 unique J



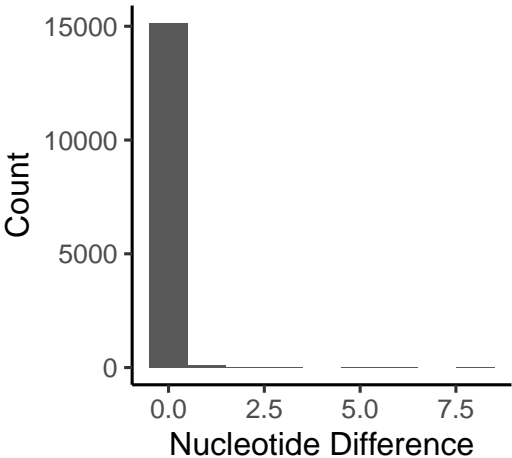
TRBV7-7\*ap01\_C315T

585 sequences assigned  
578 (98.8%) exact matches, in which:  
563 unique CDR3  
13 unique J

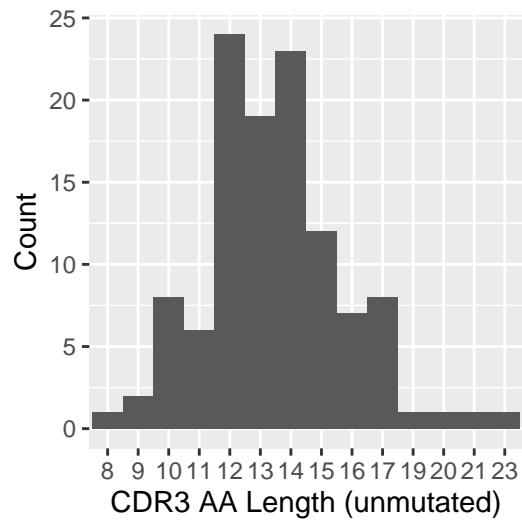


TRBV7-9\*ap01

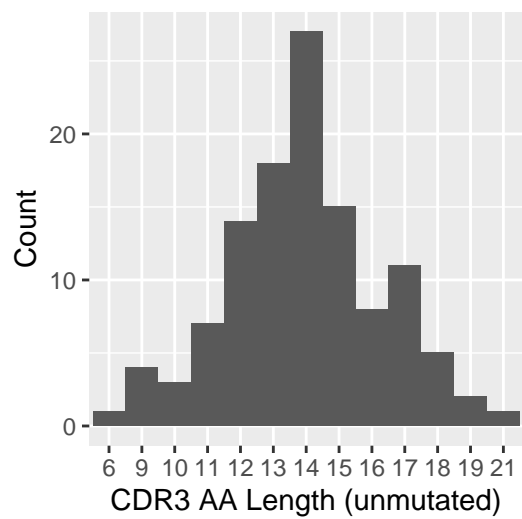
15256 sequences assigned  
15153 (99.3%) exact matches, in which:  
14874 unique CDR3  
13 unique J



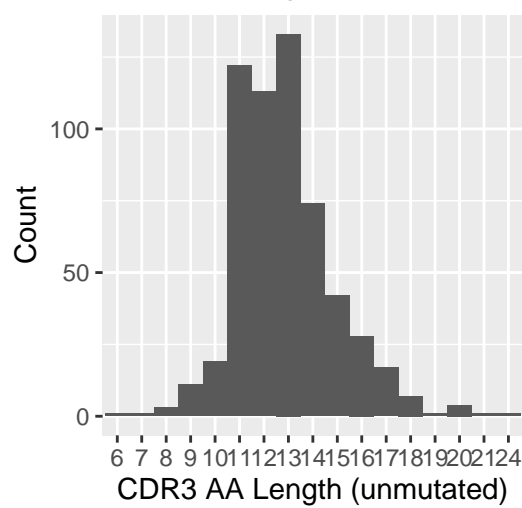
TRBV7-1\*ap01\_G291C\_T296C



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



TRBV7-7\*ap01\_C315T





[illegible]