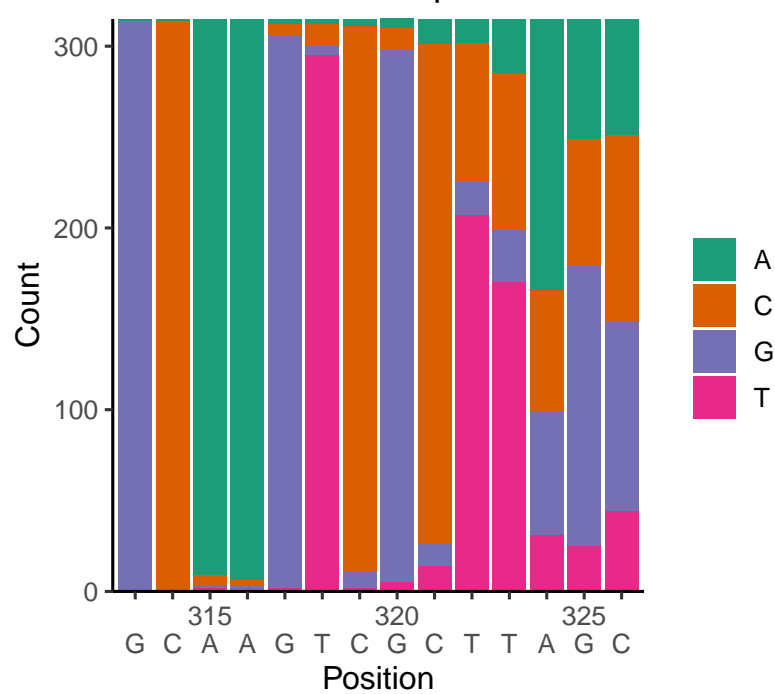
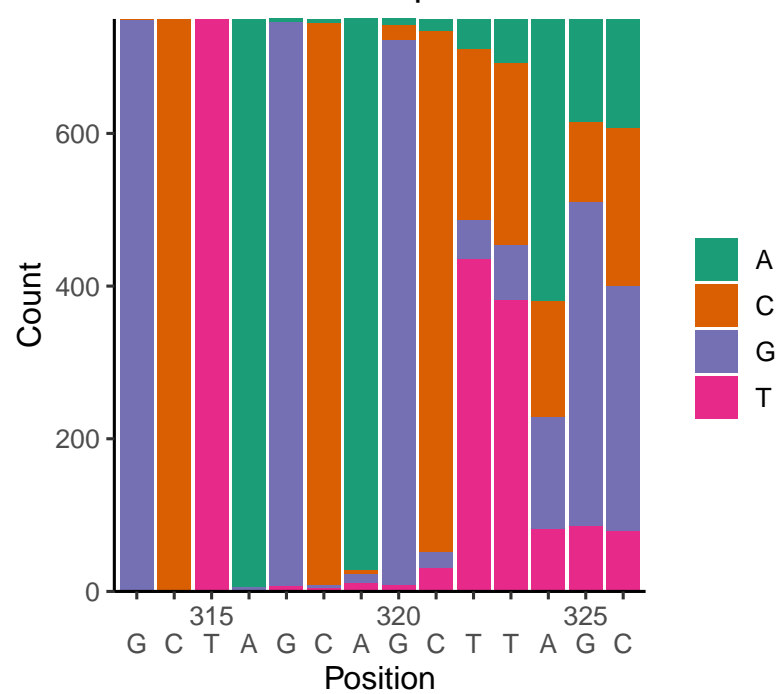


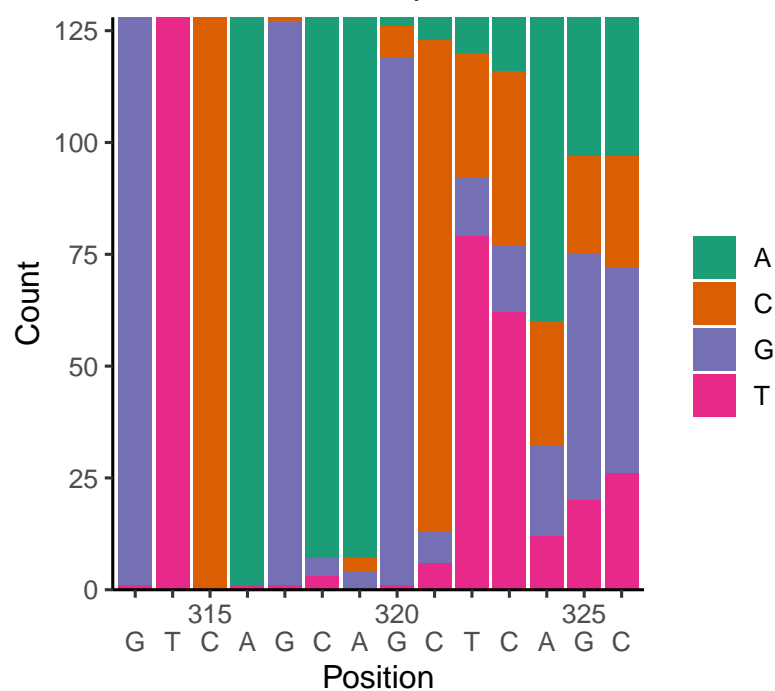
Gene TRBV12-2\*ap01\_G301A



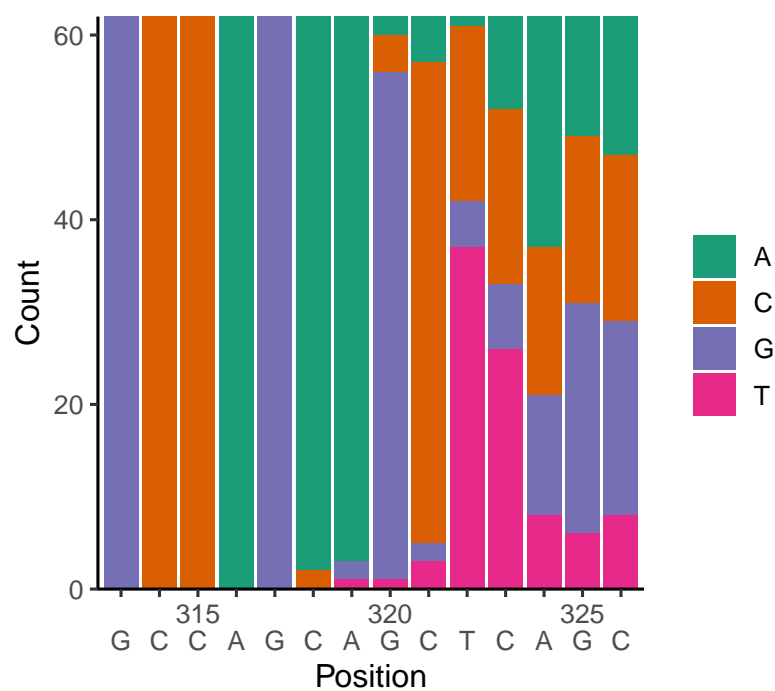
Gene TRBV7-7\*ap01\_C315T



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



Gene TRBV7-1\*ap01\_G291C\_T296C



Gene TRBV12-2\*ap01\_G301A



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



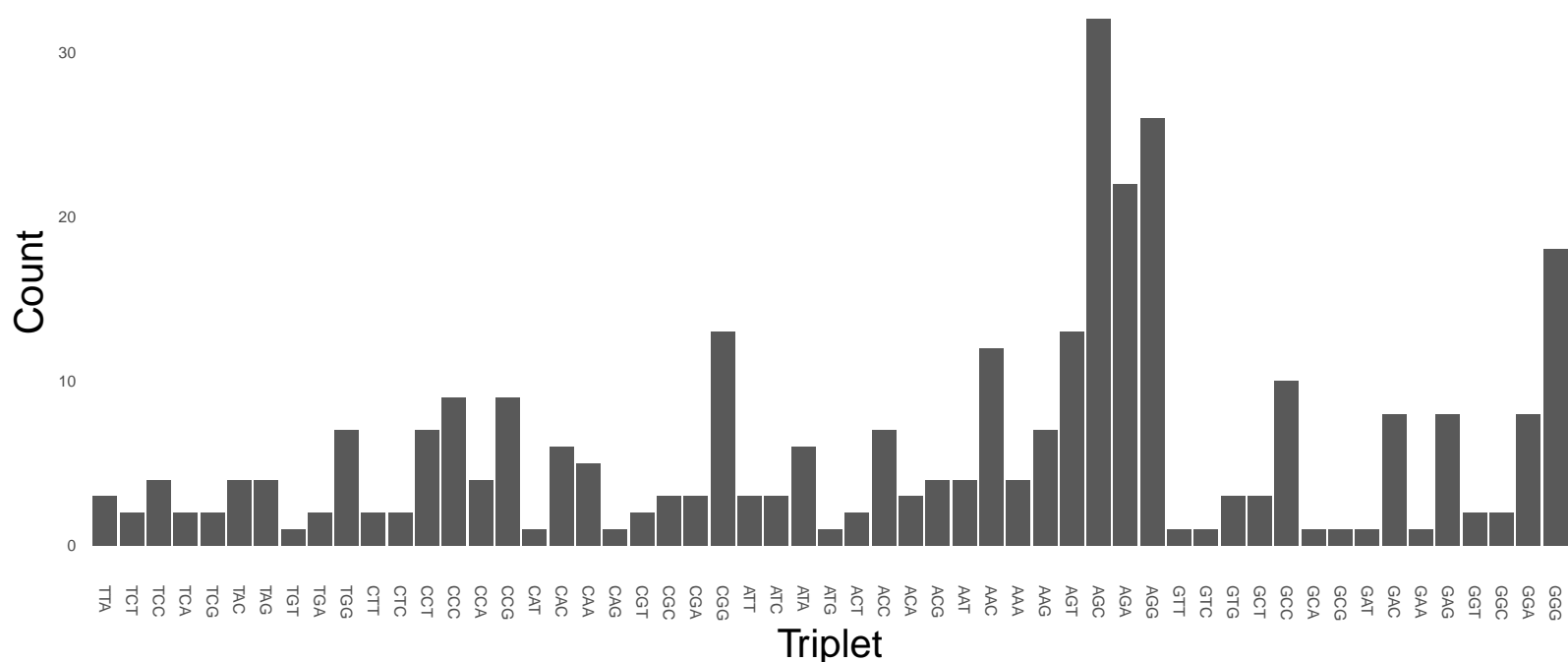
Gene TRBV7-1\*ap01\_G291C\_T296C



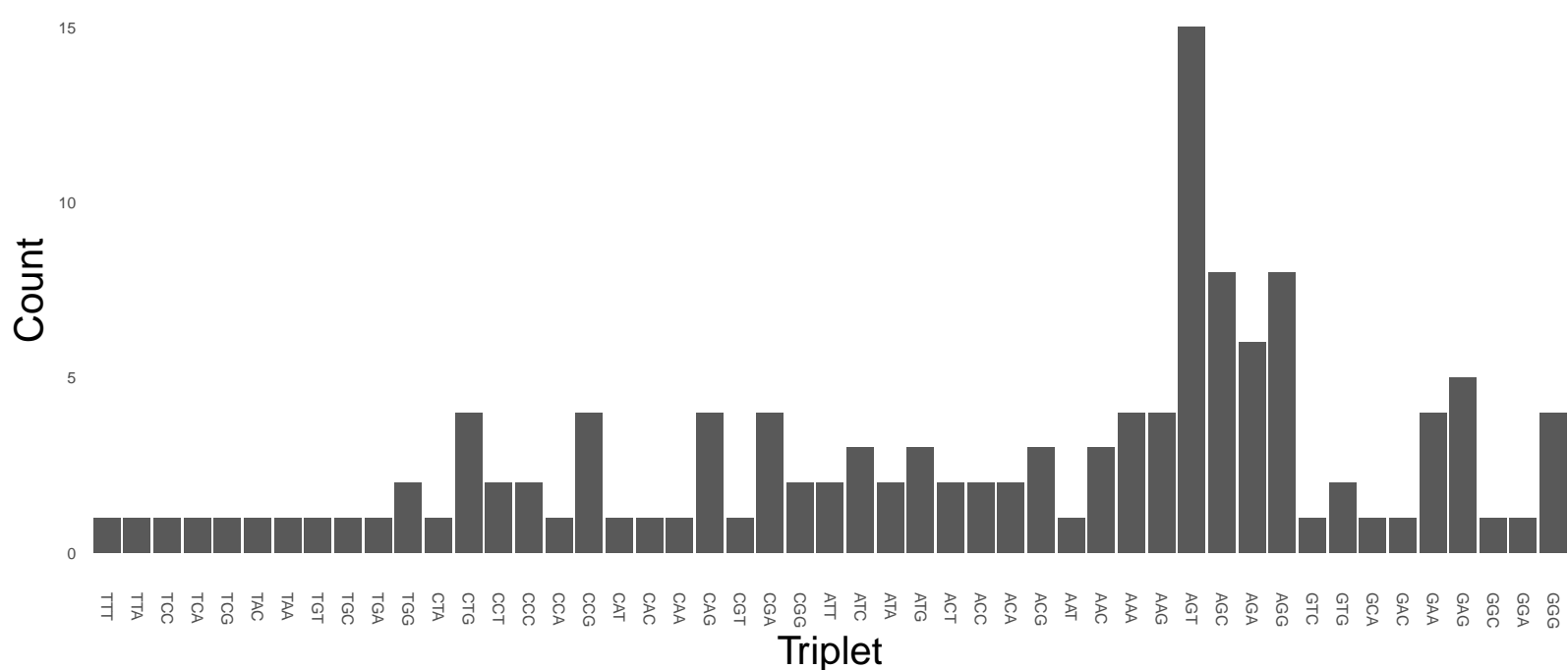
Gene TRBV7-7\*ap01\_C315T



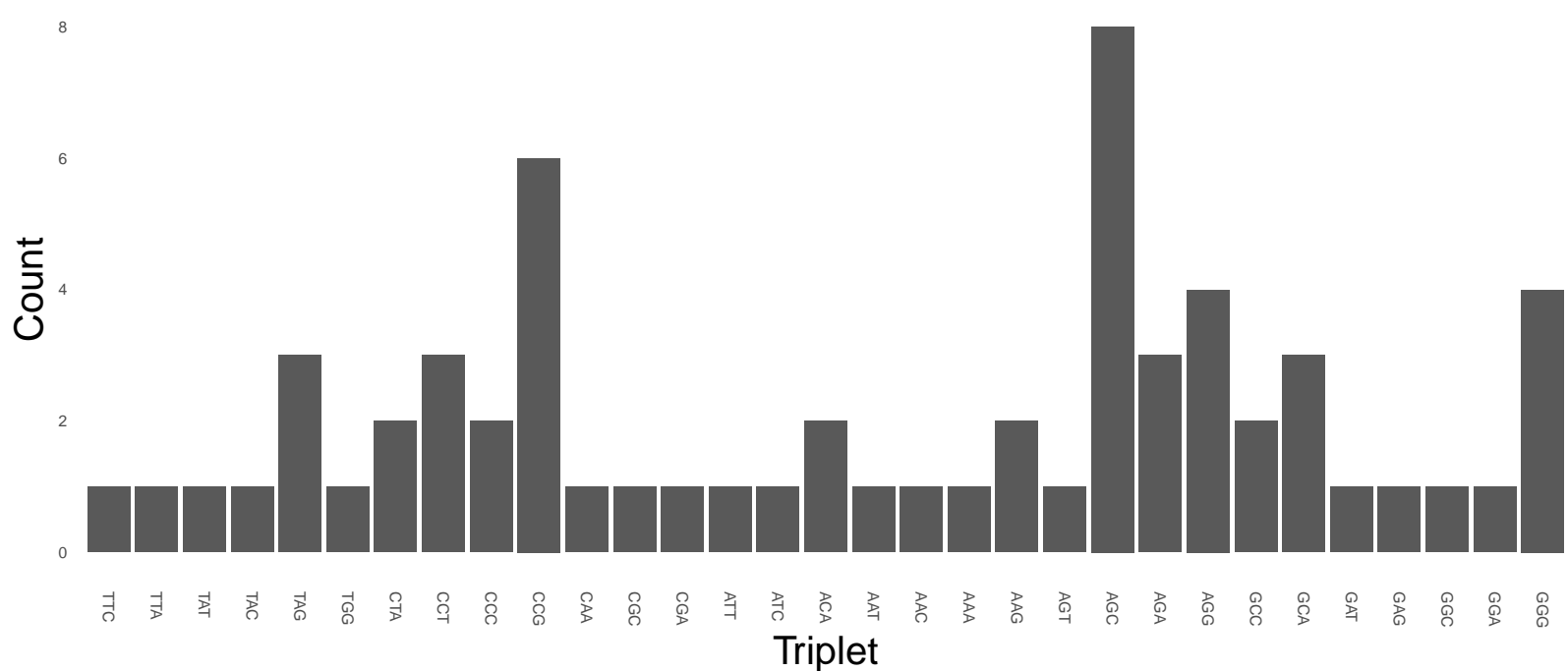
TRBV12-2\*ap01\_G301A- Final 3 nucleotides as a triplet



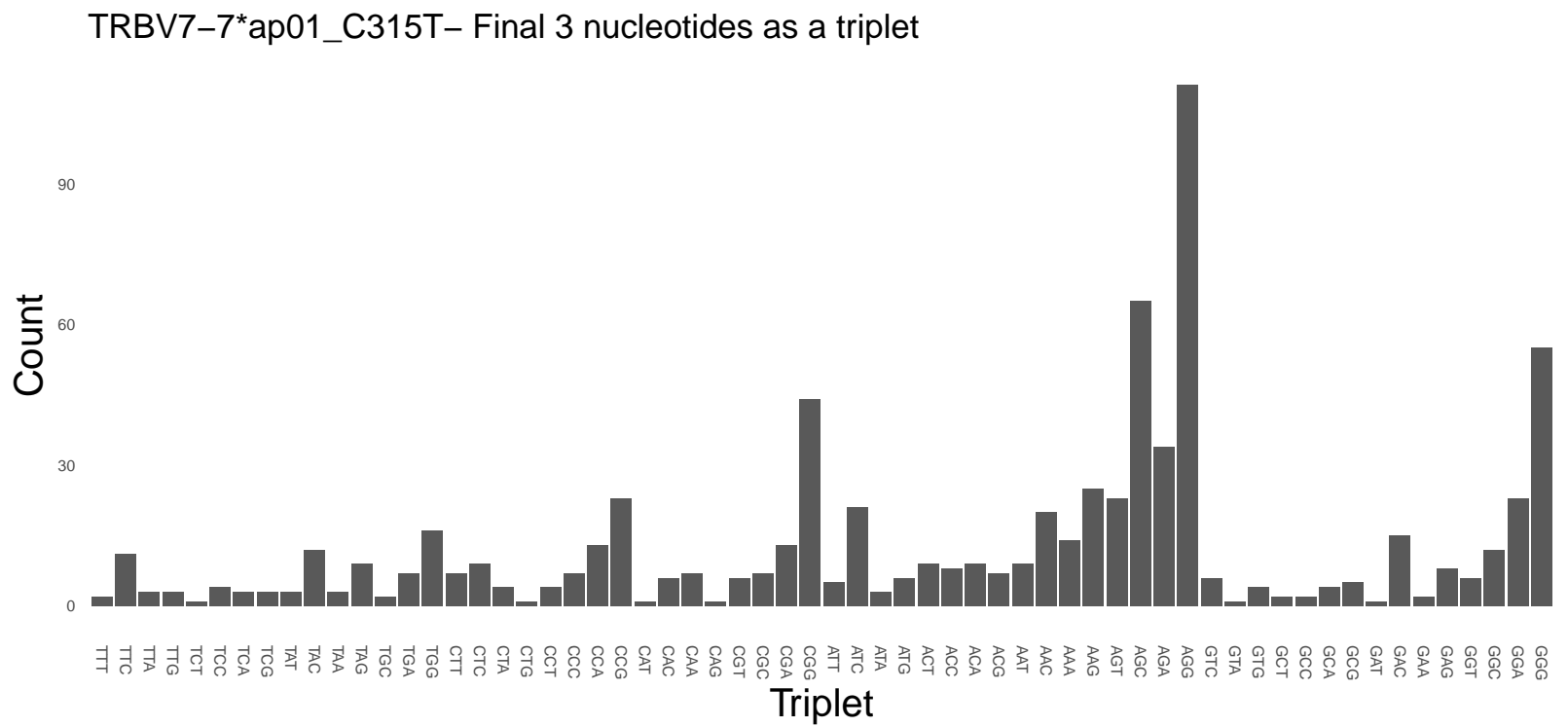
TRBV7-1\*ap01\_G291C\_T296C\_C314T- Final 3 nucleotides as a triplet



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

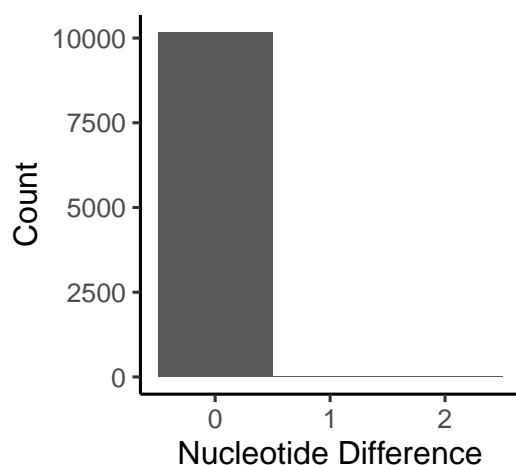


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



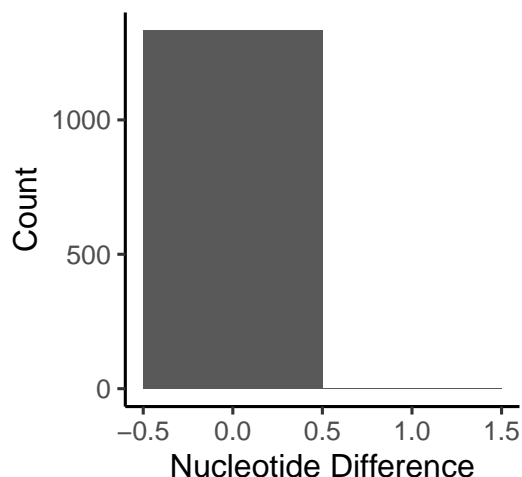
### TRBV20-1\*ap01

10192 sequences assigned  
10174 (99.8%) exact matches, in which:  
10158 unique CDR3  
13 unique J



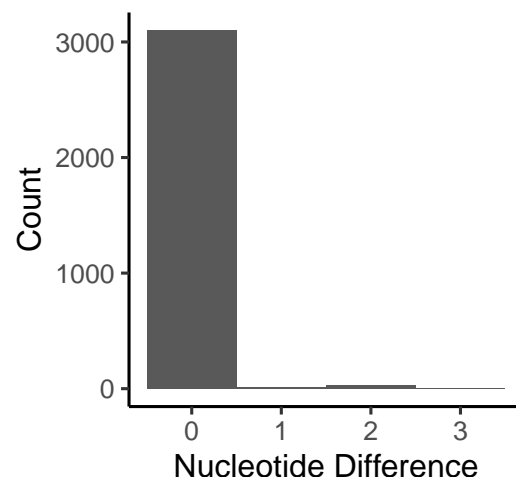
### TRBV10-2\*ap01

1335 sequences assigned  
1333 (99.9%) exact matches, in which:  
1332 unique CDR3  
13 unique J



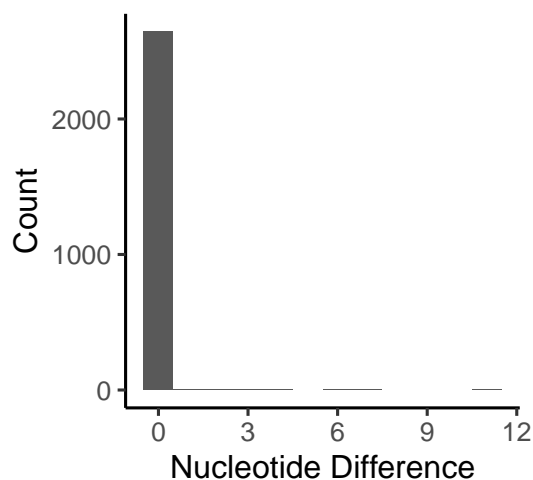
### TRBV13\*ap01

3140 sequences assigned  
3100 (98.7%) exact matches, in which:  
3096 unique CDR3  
13 unique J



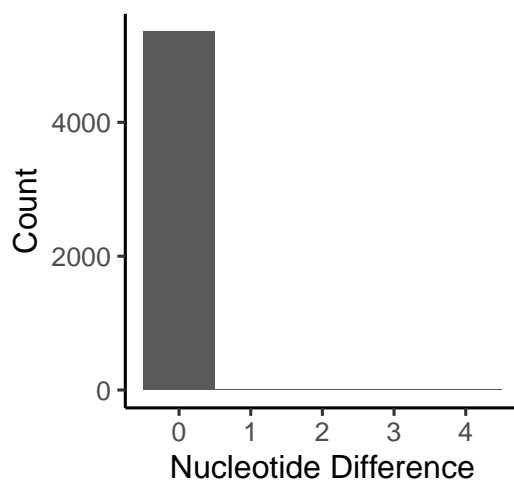
### TRBV10-1\*ap01

2655 sequences assigned  
2644 (99.6%) exact matches, in which:  
2642 unique CDR3  
13 unique J



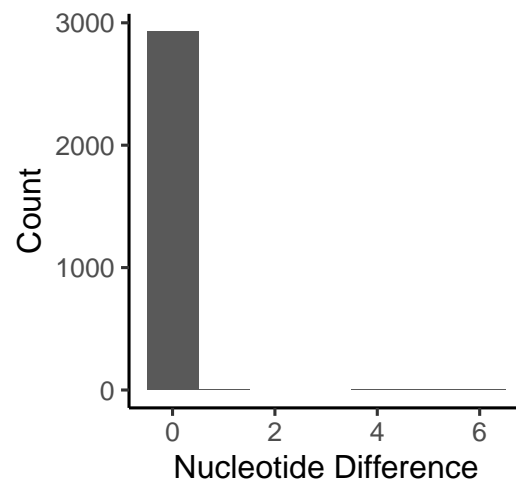
### TRBV10-3\*ap01

5377 sequences assigned  
5354 (99.6%) exact matches, in which:  
5350 unique CDR3  
13 unique J



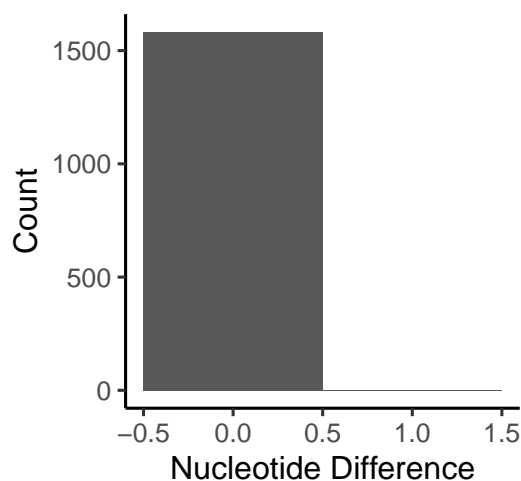
### TRBV14\*ap01

2932 sequences assigned  
2927 (99.8%) exact matches, in which:  
2926 unique CDR3  
13 unique J



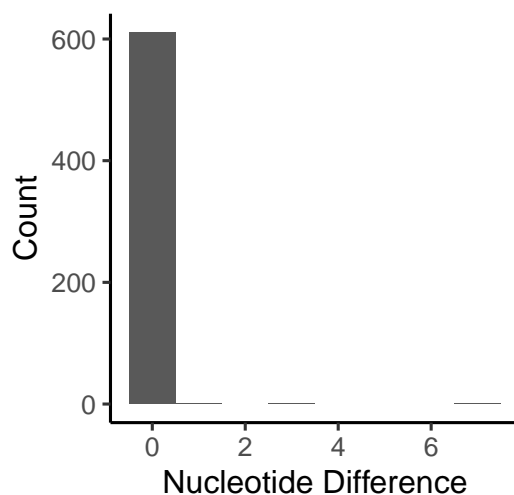
### TRBV20-1\*ap02

1584 sequences assigned  
1582 (99.9%) exact matches, in which:  
1581 unique CDR3  
13 unique J



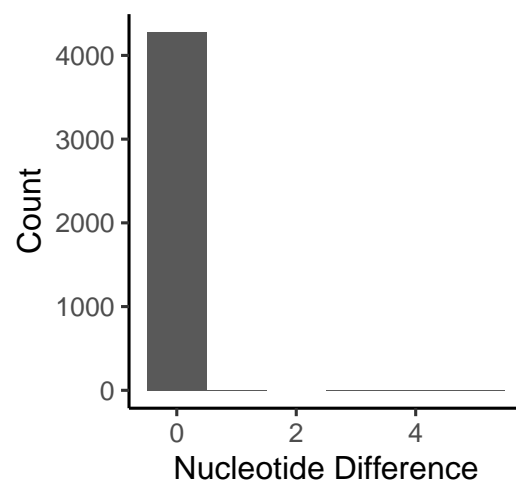
### TRBV1\*ap01

614 sequences assigned  
611 (99.5%) exact matches, in which:  
611 unique CDR3  
13 unique J



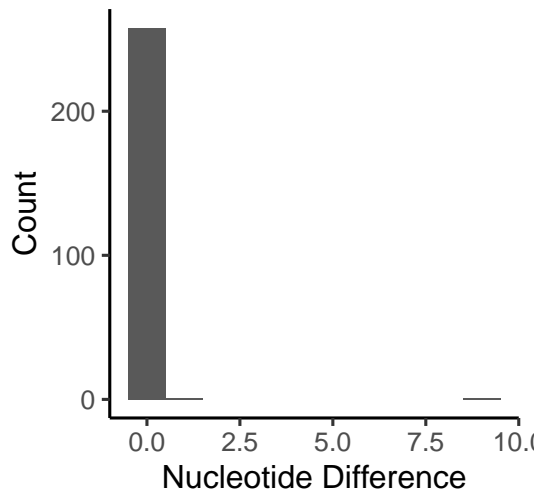
### TRBV15\*ap02

4287 sequences assigned  
4279 (99.8%) exact matches, in which:  
4274 unique CDR3  
13 unique J



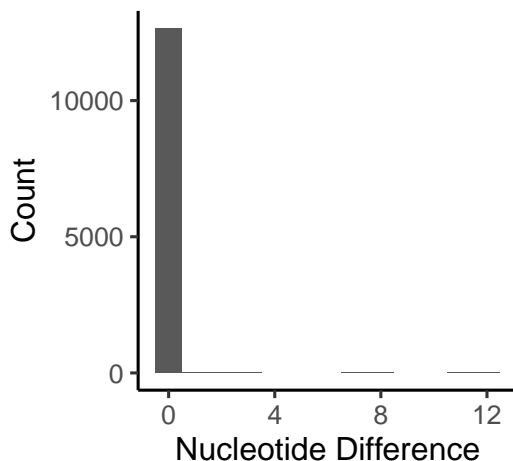
### TRBV16\*ap01

260 sequences assigned  
258 (99.2%) exact matches, in which:  
258 unique CDR3  
13 unique J



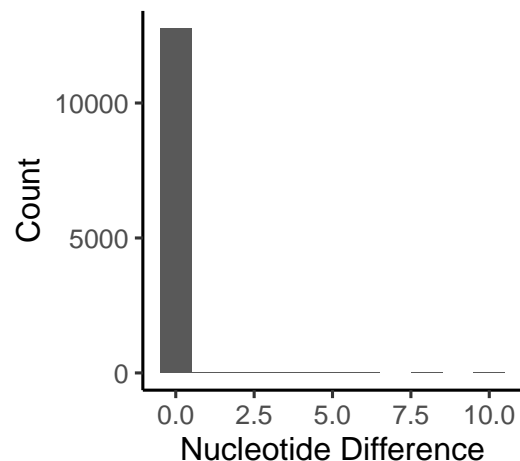
### TRBV19\*ap01

12694 sequences assigned  
12659 (99.7%) exact matches, in which:  
12658 unique CDR3  
13 unique J



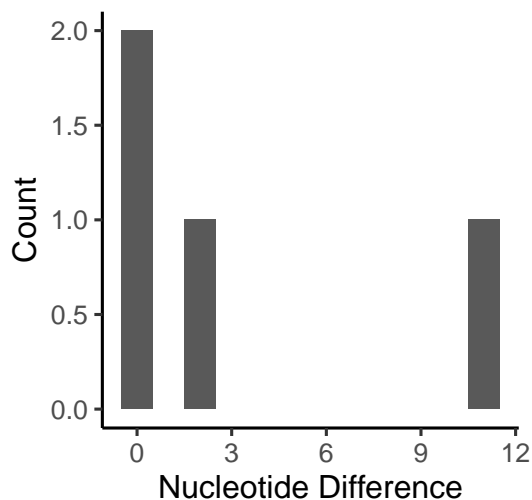
### TRBV27\*ap01

12827 sequences assigned  
12773 (99.6%) exact matches, in which:  
12741 unique CDR3  
13 unique J



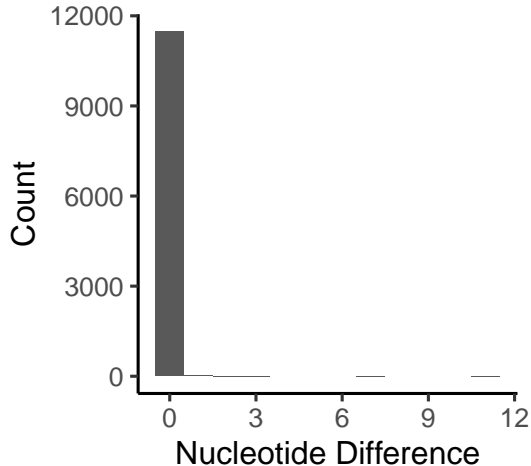
### TRBV17\*ap01

4 sequences assigned  
2 (50%) exact matches, in which:  
2 unique CDR3  
2 unique J



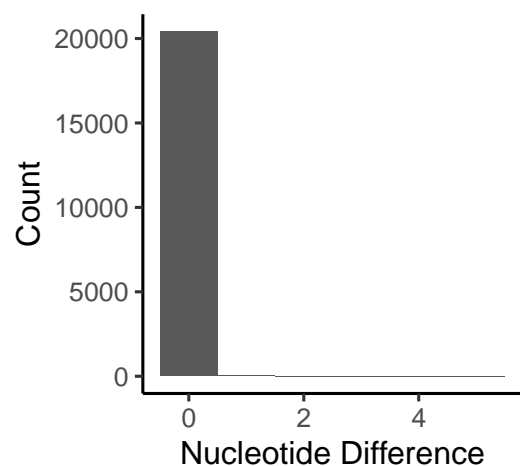
### TRBV2\*ap01

11526 sequences assigned  
11479 (99.6%) exact matches, in which:  
11459 unique CDR3  
13 unique J



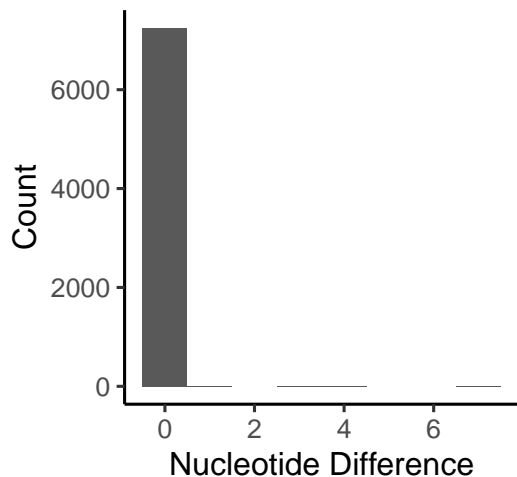
### TRBV28\*ap01

20471 sequences assigned  
20418 (99.7%) exact matches, in which:  
20406 unique CDR3  
13 unique J



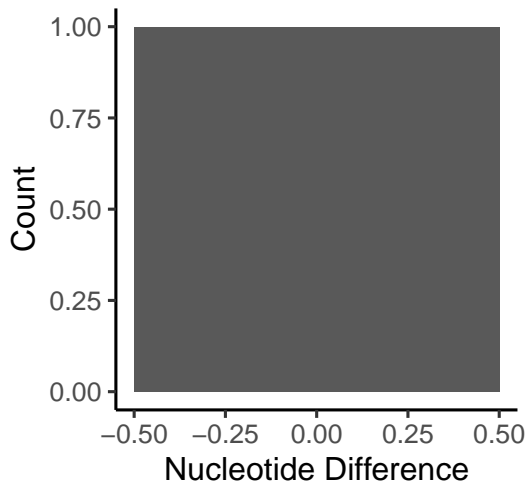
### TRBV18\*ap01

7257 sequences assigned  
7247 (99.9%) exact matches, in which:  
7246 unique CDR3  
13 unique J



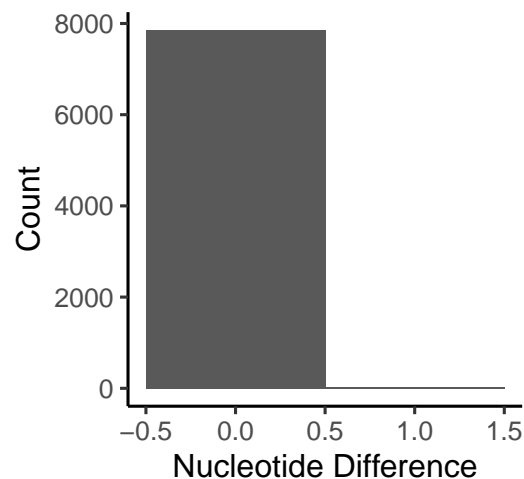
### TRBV26\*ap01

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



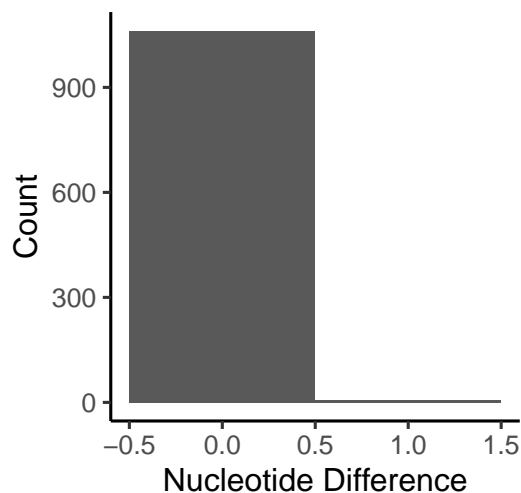
### TRBV30\*ap01

7886 sequences assigned  
7856 (99.6%) exact matches, in which:  
7835 unique CDR3  
13 unique J



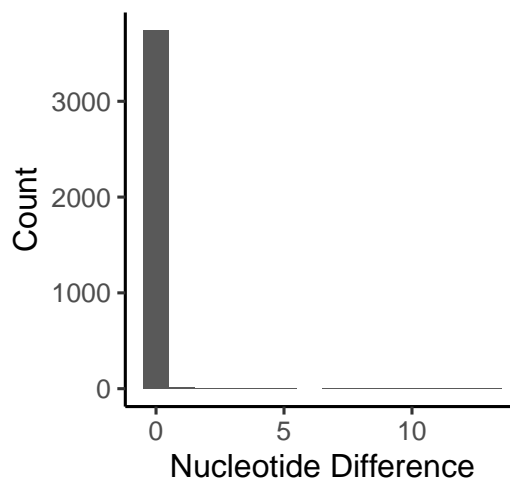
### TRBV30\*ap03

1070 sequences assigned  
1062 (99.3%) exact matches, in which:  
1058 unique CDR3  
13 unique J



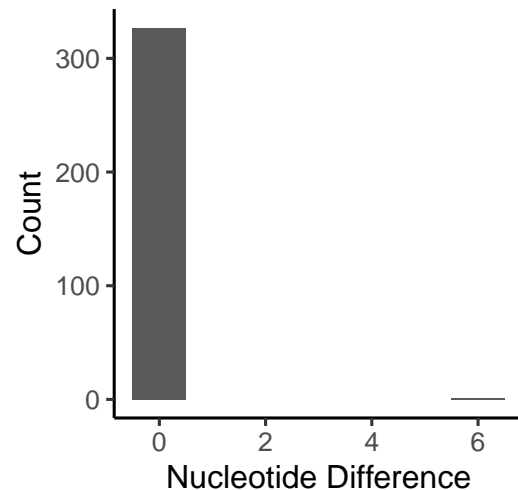
### TRBV21-1\*ap01

3786 sequences assigned  
3740 (98.8%) exact matches, in which:  
3739 unique CDR3  
13 unique J



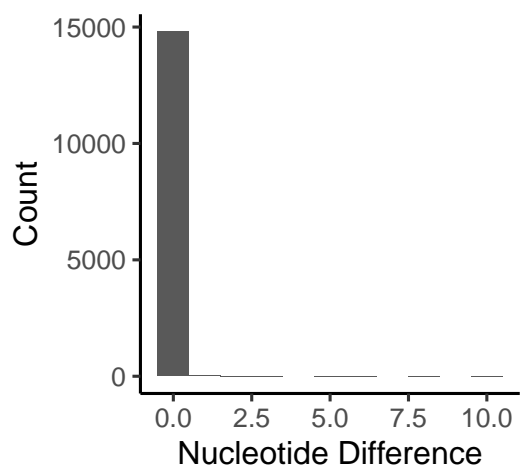
### TRBV12-1\*ap01

328 sequences assigned  
327 (99.7%) exact matches, in which:  
327 unique CDR3  
13 unique J



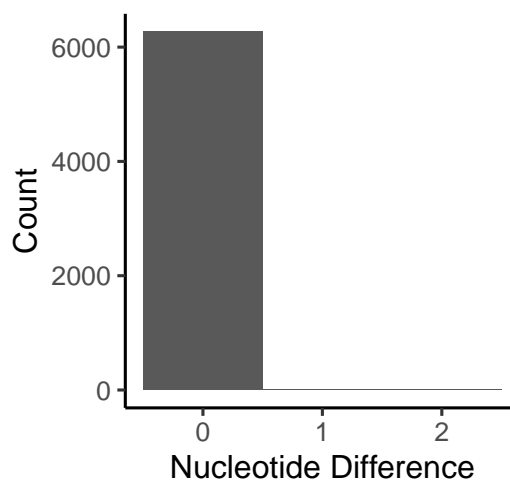
### TRBV9\*ap01

14845 sequences assigned  
14810 (99.8%) exact matches, in which:  
14789 unique CDR3  
13 unique J



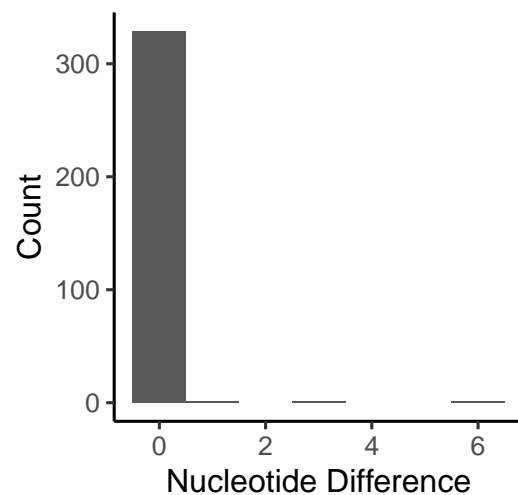
### TRBV11-2\*ap01

6288 sequences assigned  
6269 (99.7%) exact matches, in which:  
6268 unique CDR3  
13 unique J



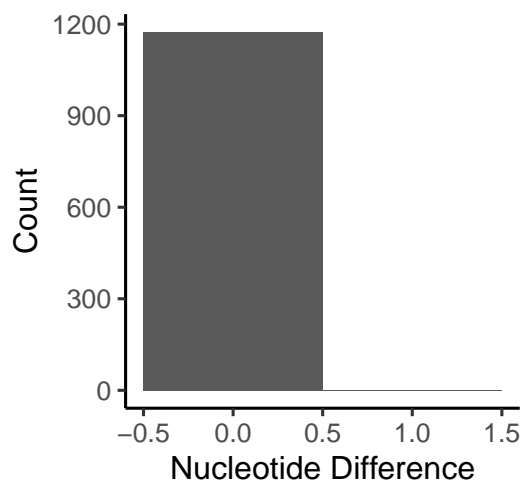
### TRBV12-2\*ap01

332 sequences assigned  
329 (99.1%) exact matches, in which:  
329 unique CDR3  
13 unique J



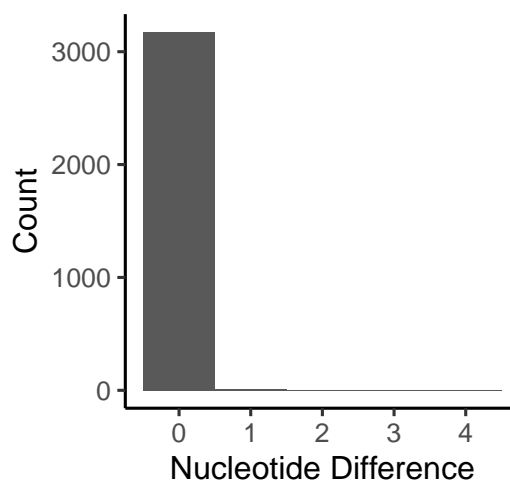
### TRBV11-1\*ap01

1175 sequences assigned  
1174 (99.9%) exact matches, in which:  
1173 unique CDR3  
13 unique J



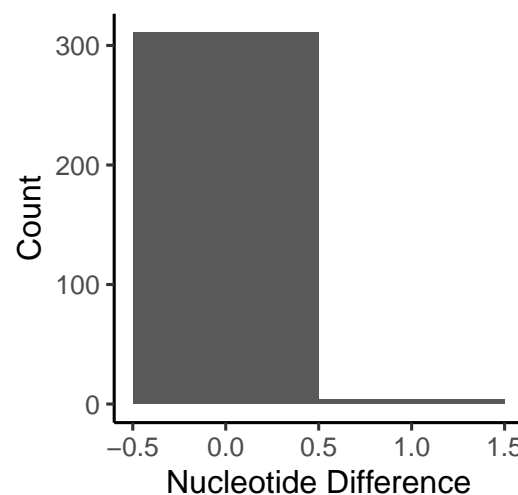
### TRBV11-3\*ap01

3188 sequences assigned  
3174 (99.6%) exact matches, in which:  
3174 unique CDR3  
13 unique J



### TRBV12-2\*ap01\_G301A

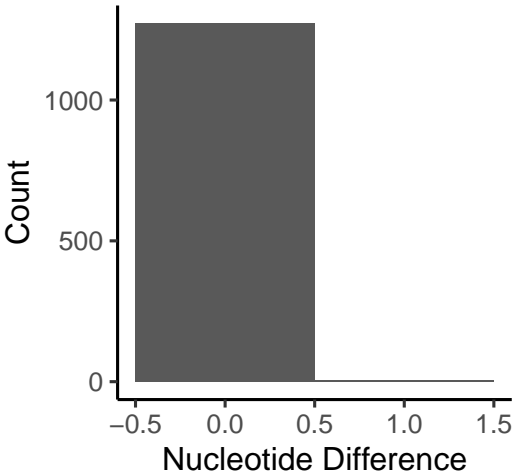
315 sequences assigned  
311 (98.7%) exact matches, in which:  
311 unique CDR3  
12 unique J





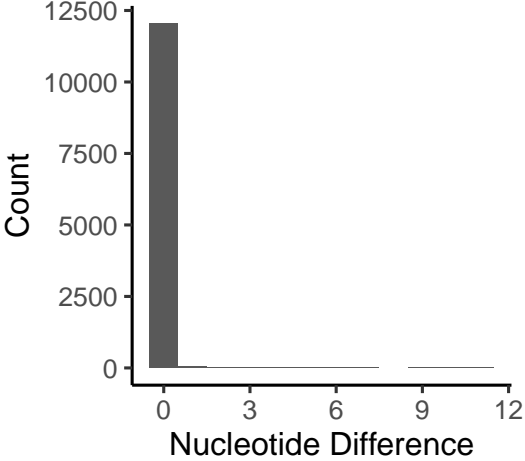
TRBV12-5\*ap01

1276 sequences assigned  
1272 (99.7%) exact matches, in which:  
1272 unique CDR3  
13 unique J



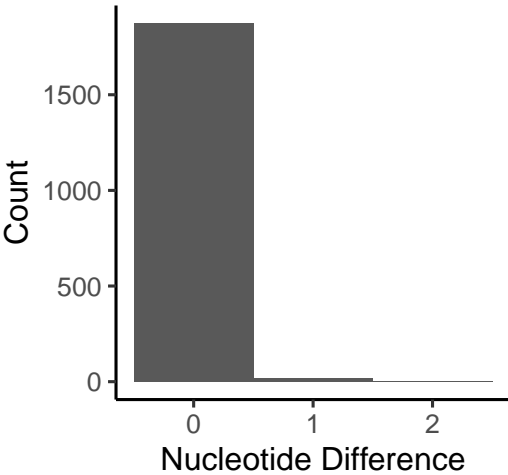
TRBV3-12\*ap01

12110 sequences assigned  
12057 (99.6%) exact matches, in which:  
12030 unique CDR3  
13 unique J



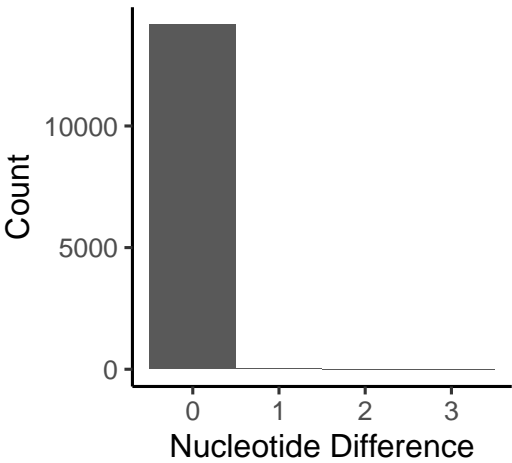
TRBV4-2\*ap01

1891 sequences assigned  
1873 (99%) exact matches, in which:  
1872 unique CDR3  
13 unique J



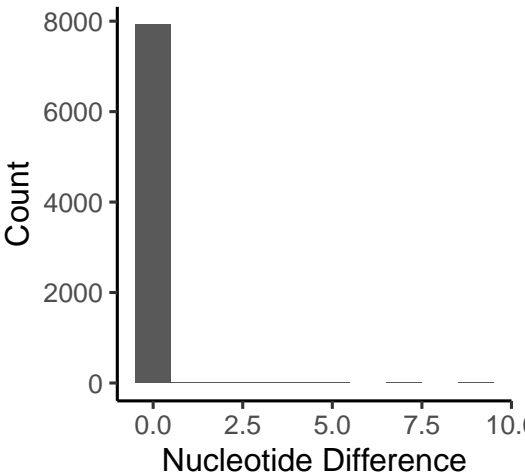
TRBV12-34\*ap01

14204 sequences assigned  
14172 (99.8%) exact matches, in which:  
14165 unique CDR3  
13 unique J



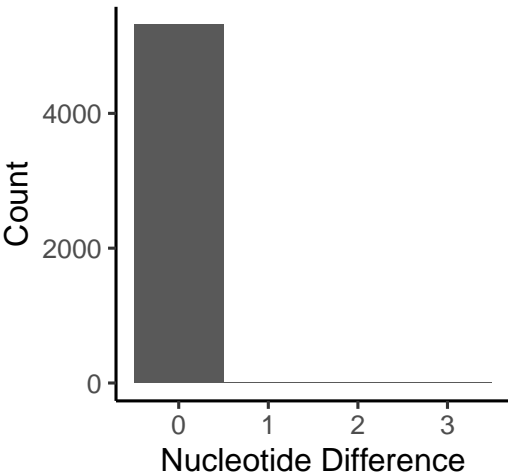
TRBV24-1\*ap01

7954 sequences assigned  
7921 (99.6%) exact matches, in which:  
7909 unique CDR3  
13 unique J



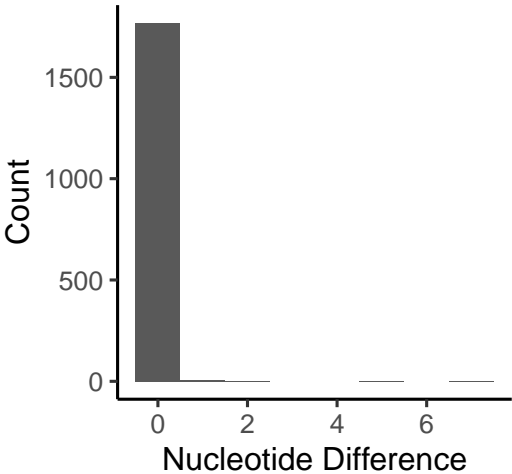
TRBV4-3\*ap01

5330 sequences assigned  
5315 (99.7%) exact matches, in which:  
5307 unique CDR3  
13 unique J



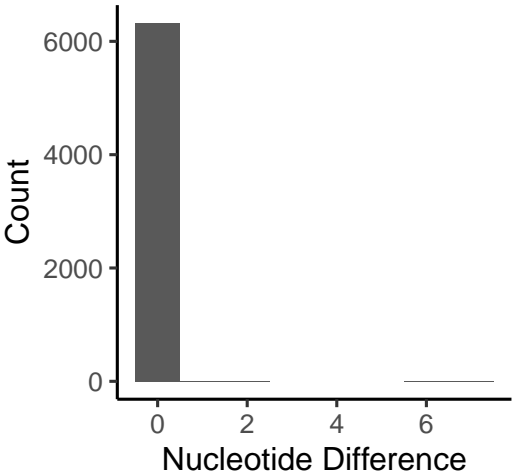
TRBV23-1\*ap01

1780 sequences assigned  
1768 (99.3%) exact matches, in which:  
1767 unique CDR3  
13 unique J



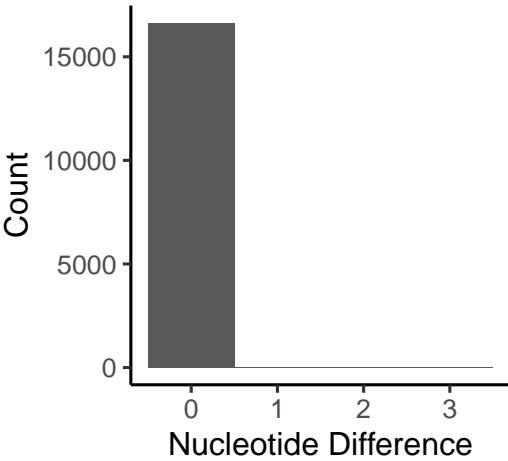
TRBV4-1\*ap01

6336 sequences assigned  
6323 (99.8%) exact matches, in which:  
6321 unique CDR3  
13 unique J



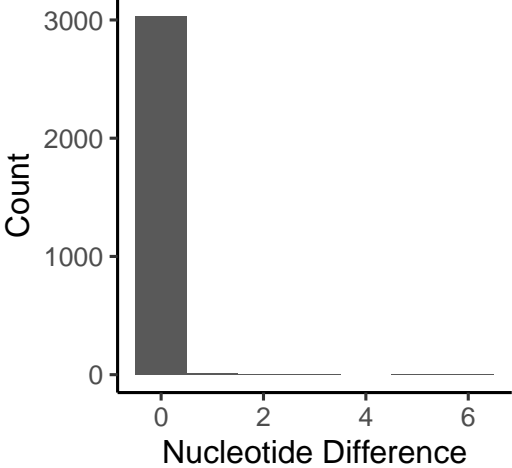
TRBV5-1\*ap01

16671 sequences assigned  
16641 (99.8%) exact matches, in which:  
16594 unique CDR3  
13 unique J



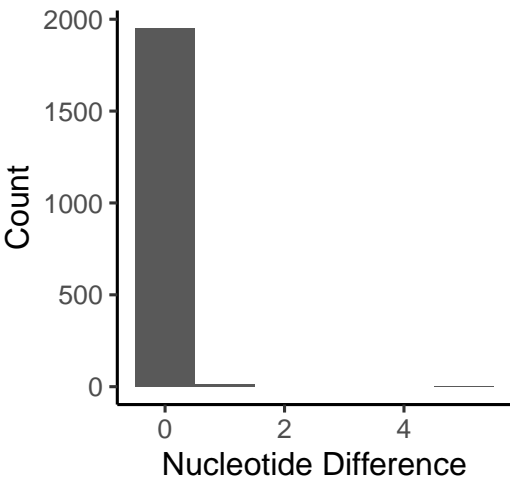
TRBV25-1\*ap01

3052 sequences assigned  
3030 (99.3%) exact matches, in which:  
3025 unique CDR3  
13 unique J



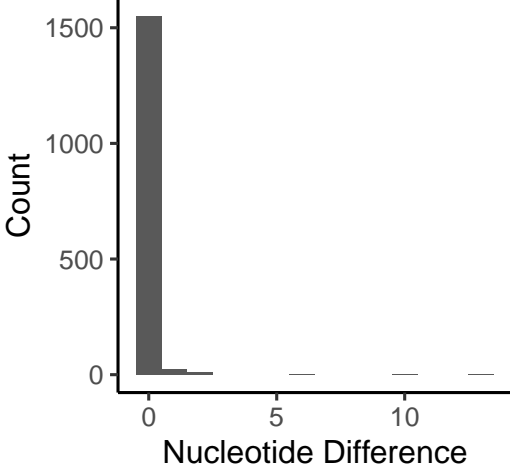
TRBV5-5\*ap01

1962 sequences assigned  
1950 (99.4%) exact matches, in which:  
1944 unique CDR3  
13 unique J



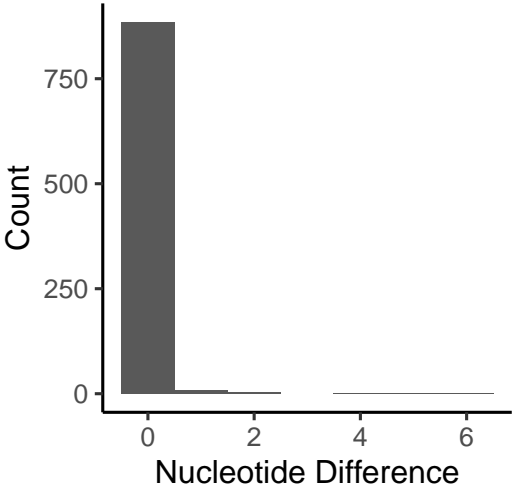
TRBV5-8\*ap01

1586 sequences assigned  
1549 (97.7%) exact matches, in which:  
1547 unique CDR3  
13 unique J



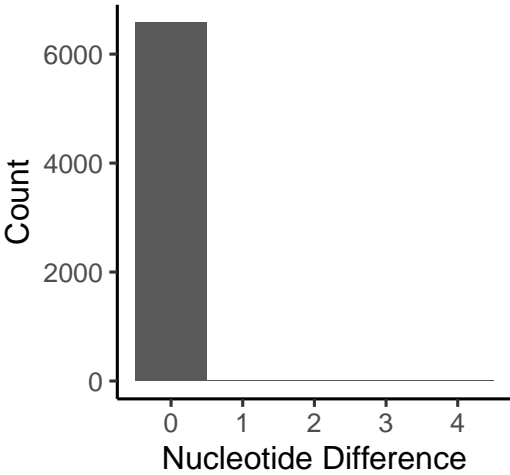
TRBV5-3\*ap01

900 sequences assigned  
885 (98.3%) exact matches, in which:  
884 unique CDR3  
13 unique J



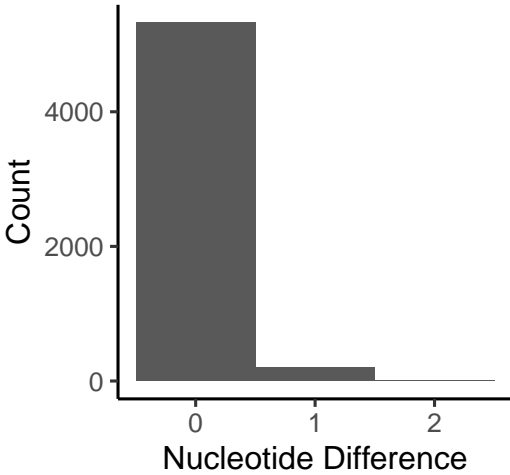
TRBV5-6\*ap01

6596 sequences assigned  
6576 (99.7%) exact matches, in which:  
6553 unique CDR3  
13 unique J



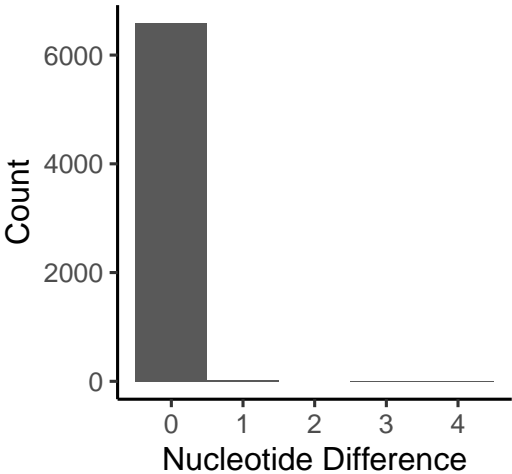
TRBV6-1\*ap01

5526 sequences assigned  
5323 (96.3%) exact matches, in which:  
5315 unique CDR3  
13 unique J



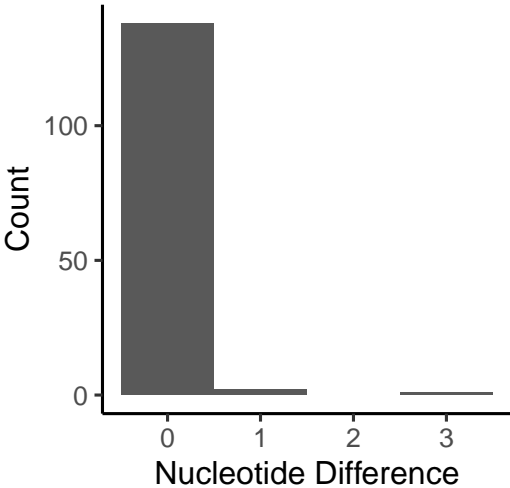
TRBV5-4\*ap01

6618 sequences assigned  
6589 (99.6%) exact matches, in which:  
6586 unique CDR3  
13 unique J



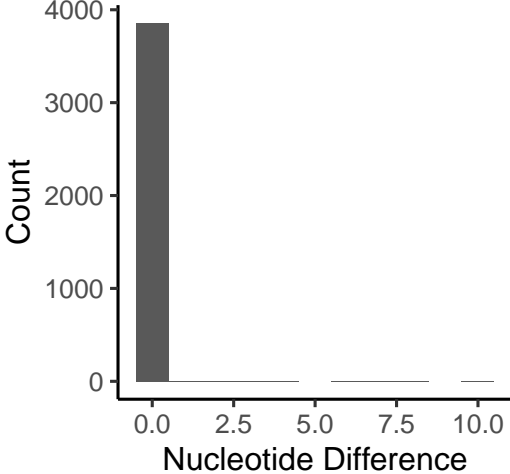
TRBV5-7\*ap01

141 sequences assigned  
138 (97.9%) exact matches, in which:  
138 unique CDR3  
13 unique J



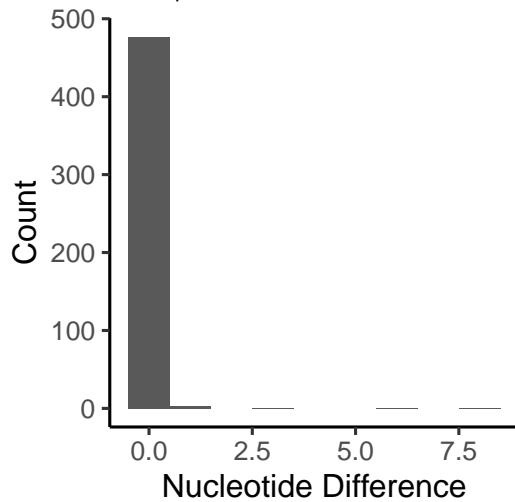
TRBV6-4\*ap01

3873 sequences assigned  
3857 (99.6%) exact matches, in which:  
3855 unique CDR3  
13 unique J



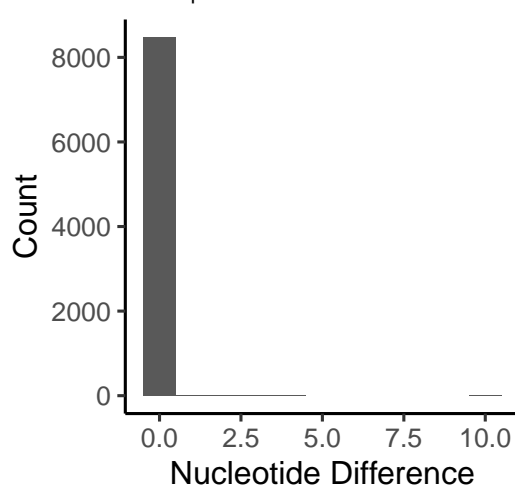
### TRBV6-7\*ap01

483 sequences assigned  
477 (98.8%) exact matches, in which:  
477 unique CDR3  
13 unique J



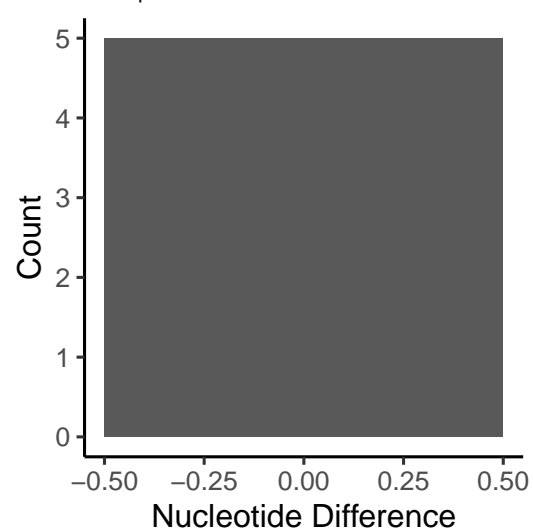
### TRBV6-23\*ap01

8497 sequences assigned  
8472 (99.7%) exact matches, in which:  
8460 unique CDR3  
13 unique J



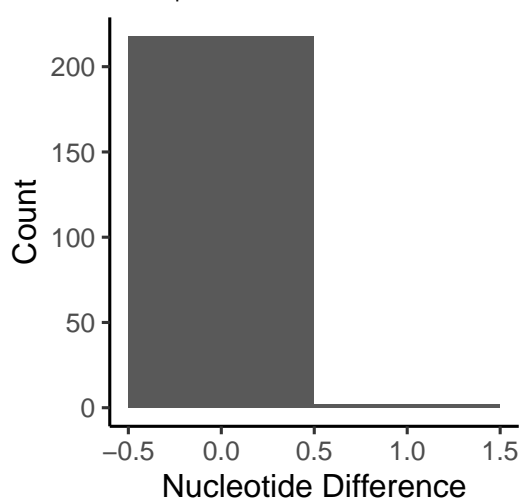
### TRBV7-1\*ap01

5 sequences assigned  
5 (100%) exact matches, in which:  
5 unique CDR3  
5 unique J



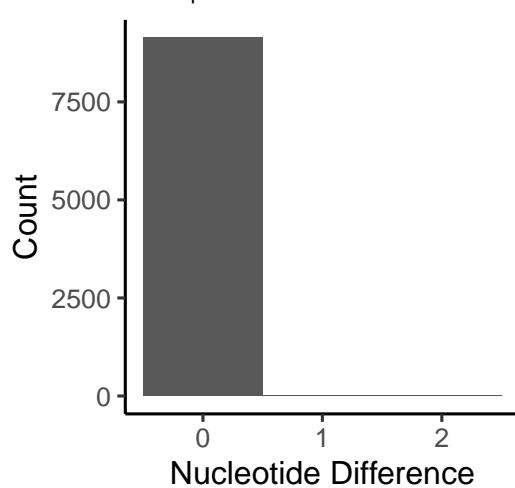
### TRBV6-8\*ap01

220 sequences assigned  
218 (99.1%) exact matches, in which:  
218 unique CDR3  
12 unique J



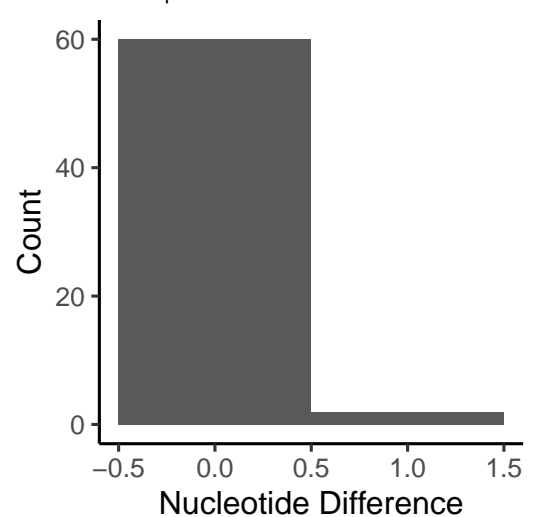
### TRBV6-56\*ap01

9148 sequences assigned  
9136 (99.9%) exact matches, in which:  
9122 unique CDR3  
13 unique J



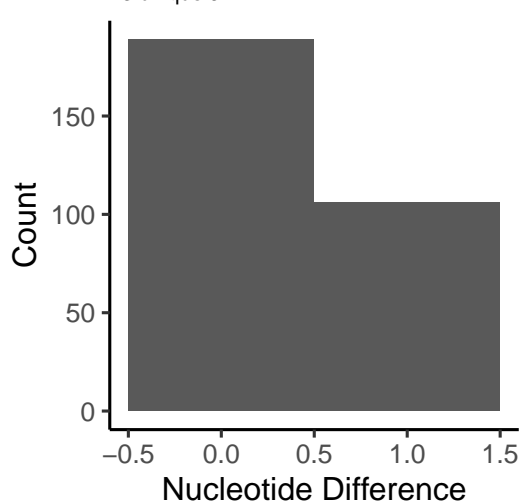
### TRBV7-1\*ap01\_G291C\_T

62 sequences assigned  
60 (96.8%) exact matches, in which:  
60 unique CDR3  
11 unique J



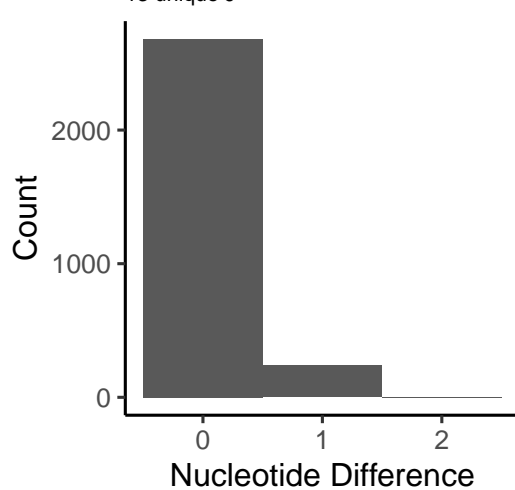
### TRBV6-9\*ap01

295 sequences assigned  
189 (64.1%) exact matches, in which:  
189 unique CDR3  
13 unique J



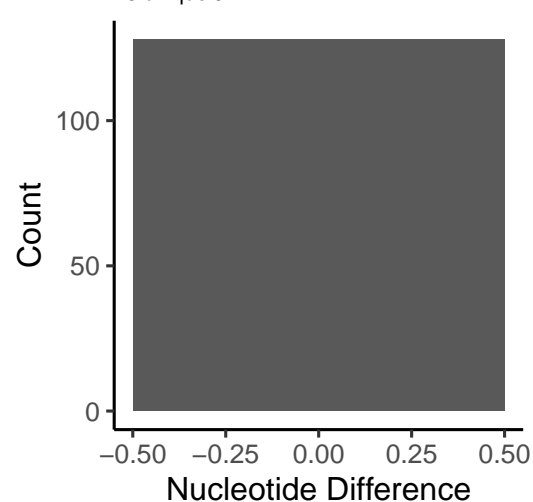
### TRBV6-56\*ap02

2921 sequences assigned  
2681 (91.8%) exact matches, in which:  
2676 unique CDR3  
13 unique J



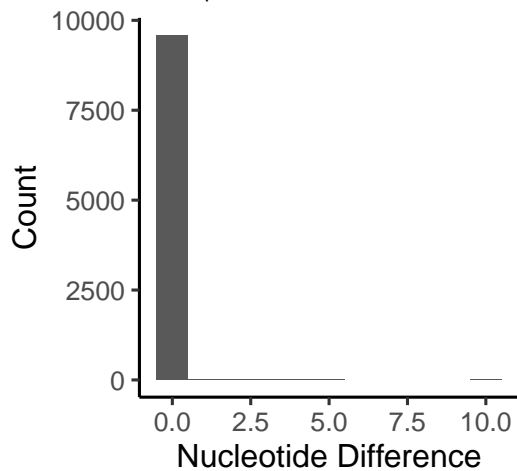
### TRBV7-1\*ap01\_G291C\_T

128 sequences assigned  
128 (100%) exact matches, in which:  
128 unique CDR3  
13 unique J



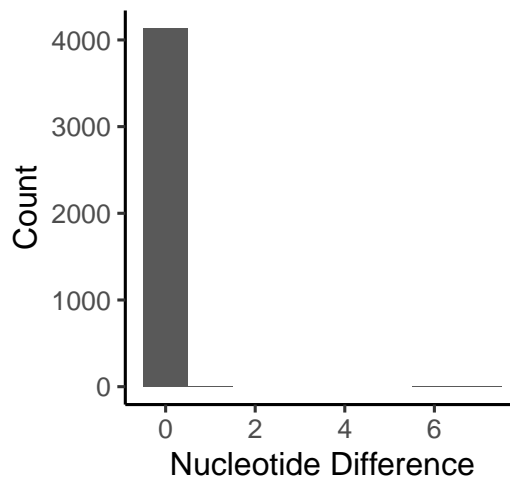
### TRBV7-2\*ap01

9614 sequences assigned  
9588 (99.7%) exact matches, in which:  
9583 unique CDR3  
13 unique J



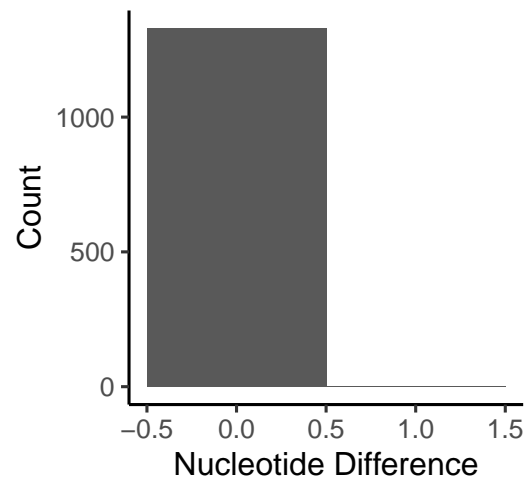
### TRBV7-6\*ap01

4144 sequences assigned  
4133 (99.7%) exact matches, in which:  
4130 unique CDR3  
13 unique J



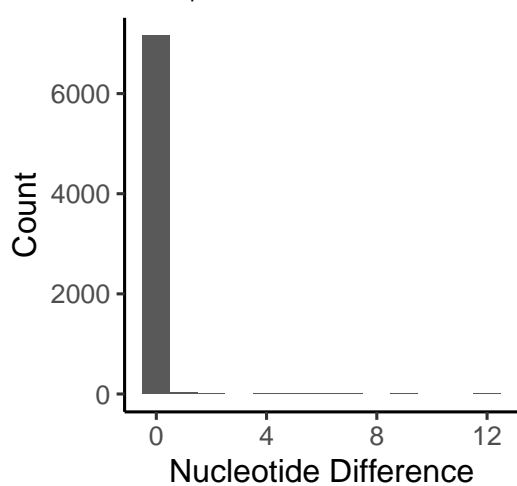
### TRBV7-8\*ap01

1331 sequences assigned  
1329 (99.8%) exact matches, in which:  
1329 unique CDR3  
13 unique J



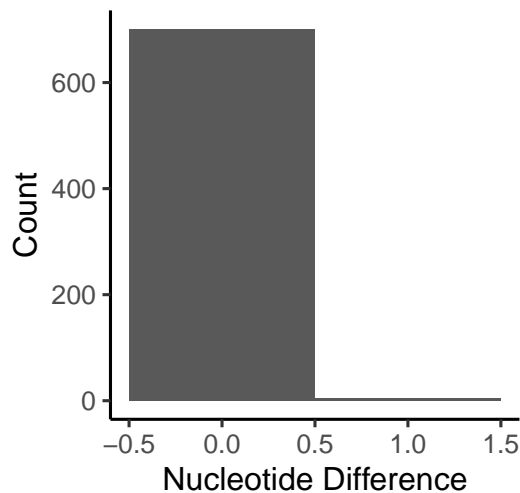
### TRBV7-3\*ap01

7184 sequences assigned  
7156 (99.6%) exact matches, in which:  
7149 unique CDR3  
13 unique J



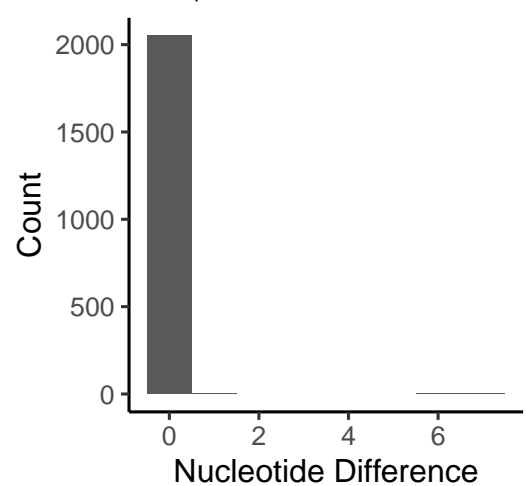
### TRBV7-7\*ap01

705 sequences assigned  
701 (99.4%) exact matches, in which:  
701 unique CDR3  
13 unique J



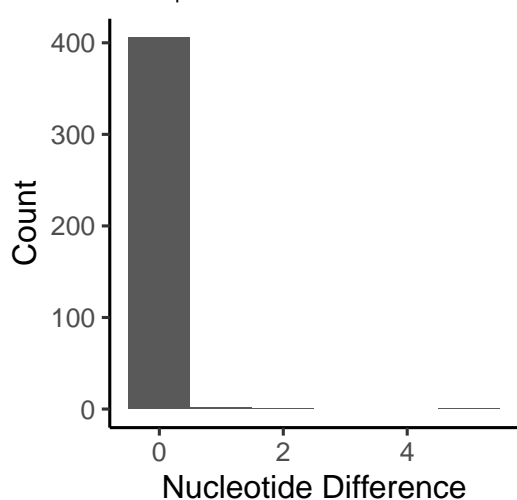
### TRBV7-8\*ap02

2055 sequences assigned  
2051 (99.8%) exact matches, in which:  
2049 unique CDR3  
12 unique J



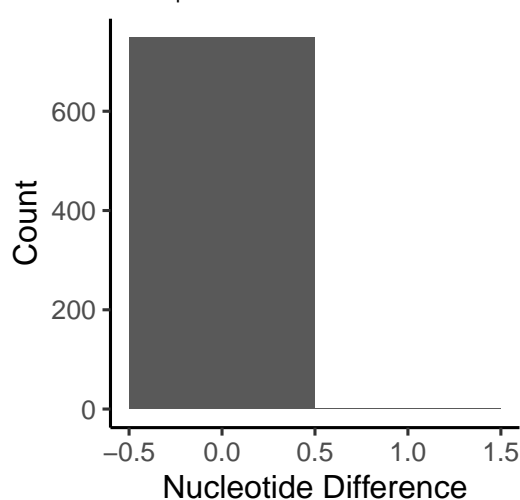
### TRBV7-4\*ap01

410 sequences assigned  
406 (99%) exact matches, in which:  
404 unique CDR3  
13 unique J



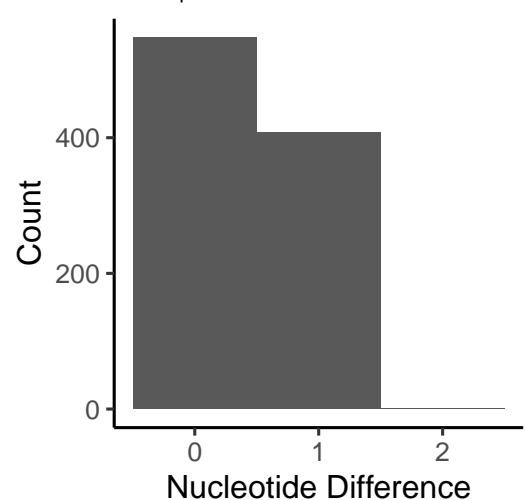
### TRBV7-7\*ap01\_C315T

750 sequences assigned  
749 (99.9%) exact matches, in which:  
748 unique CDR3  
12 unique J



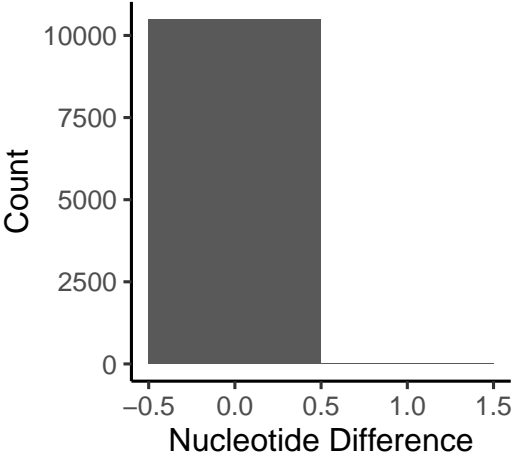
### TRBV7-8\*ap03

957 sequences assigned  
548 (57.3%) exact matches, in which:  
548 unique CDR3  
13 unique J



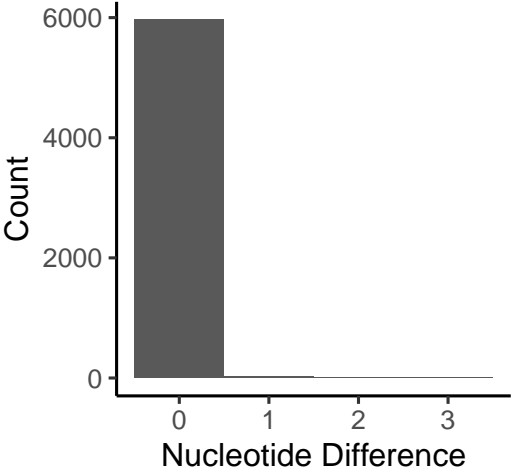
TRBV7-9\*ap01

10508 sequences assigned  
10496 (99.9%) exact matches, in which:  
10485 unique CDR3  
13 unique J



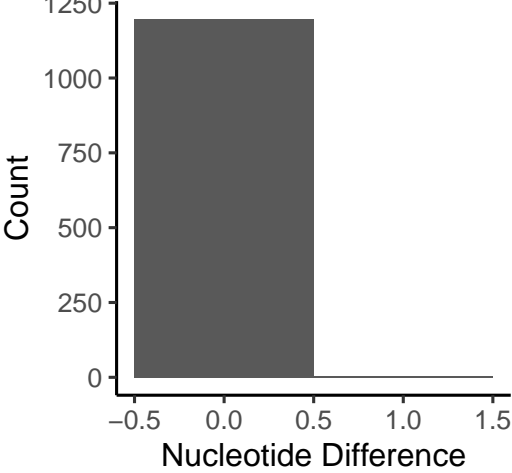
TRBV29-1\*ap01

5987 sequences assigned  
5965 (99.6%) exact matches, in which:  
5954 unique CDR3  
13 unique J

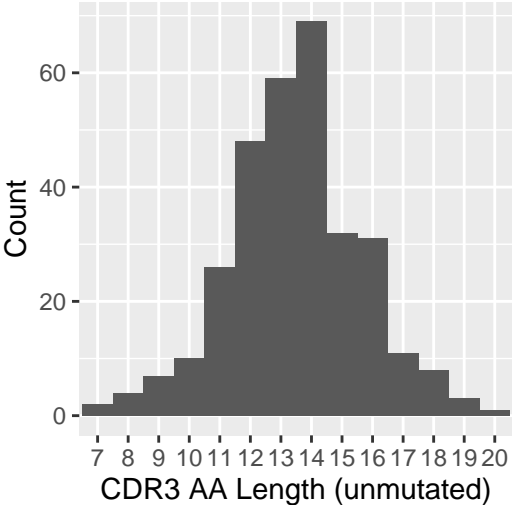


TRBV29-1\*ap02

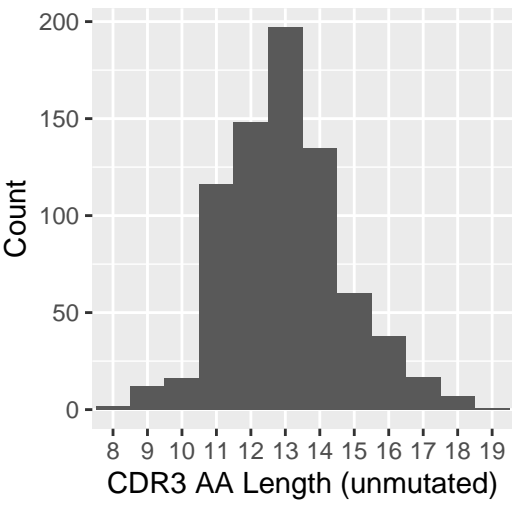
1201 sequences assigned  
1197 (99.7%) exact matches, in which:  
1197 unique CDR3  
13 unique J



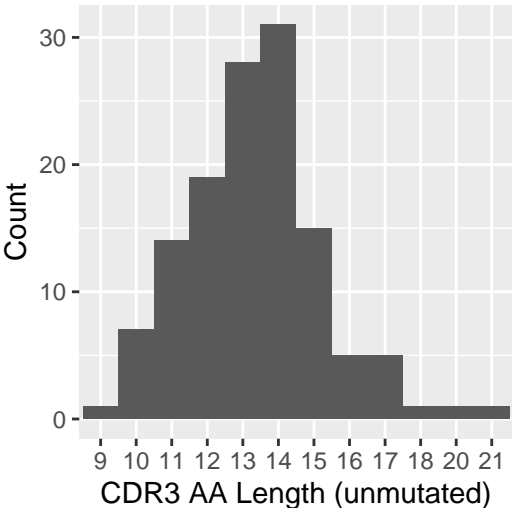
TRBV12-2\*ap01\_G301A



TRBV7-7\*ap01\_C315T



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



TRBV7-1\*ap01\_G291C\_T296C

