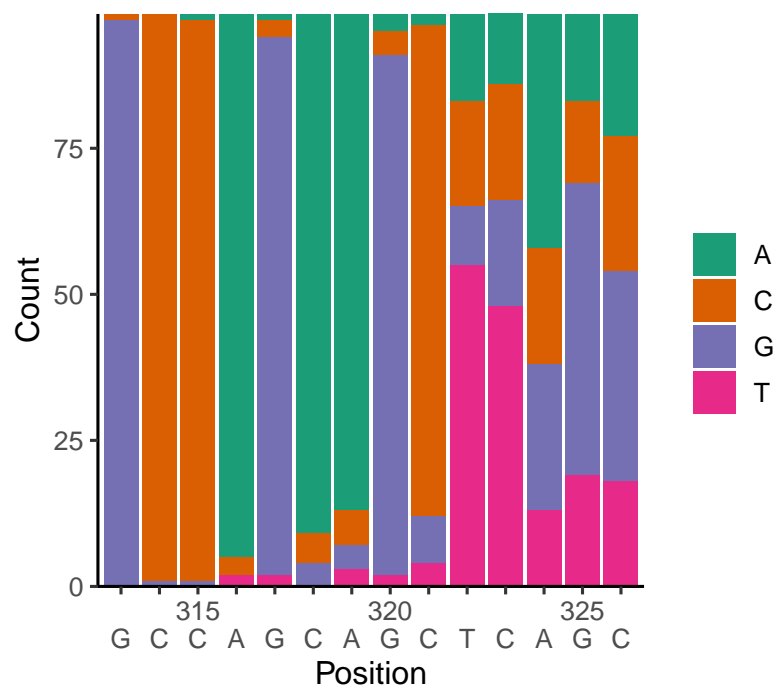
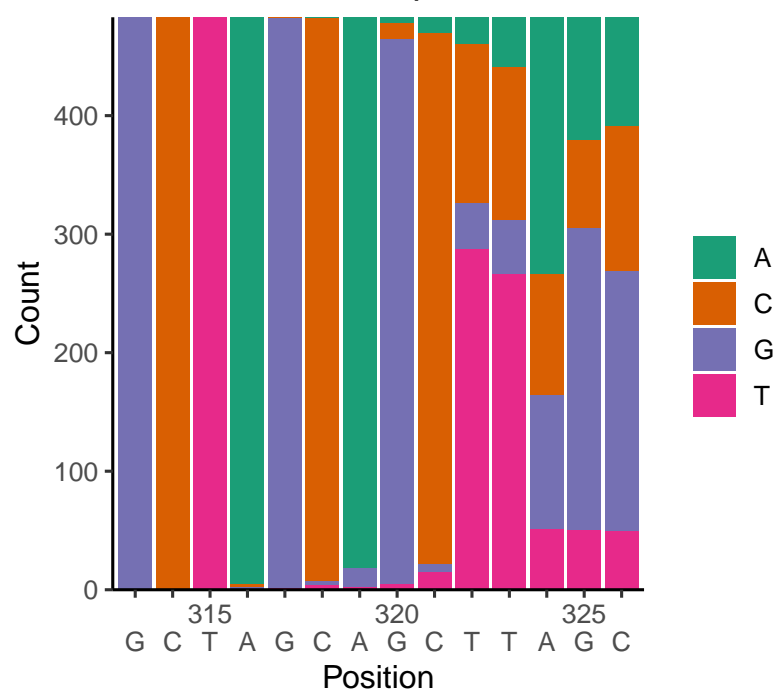


Gene TRBV7-1\*ap01\_G291C\_T296C



Gene TRBV7-7\*ap01\_C315T



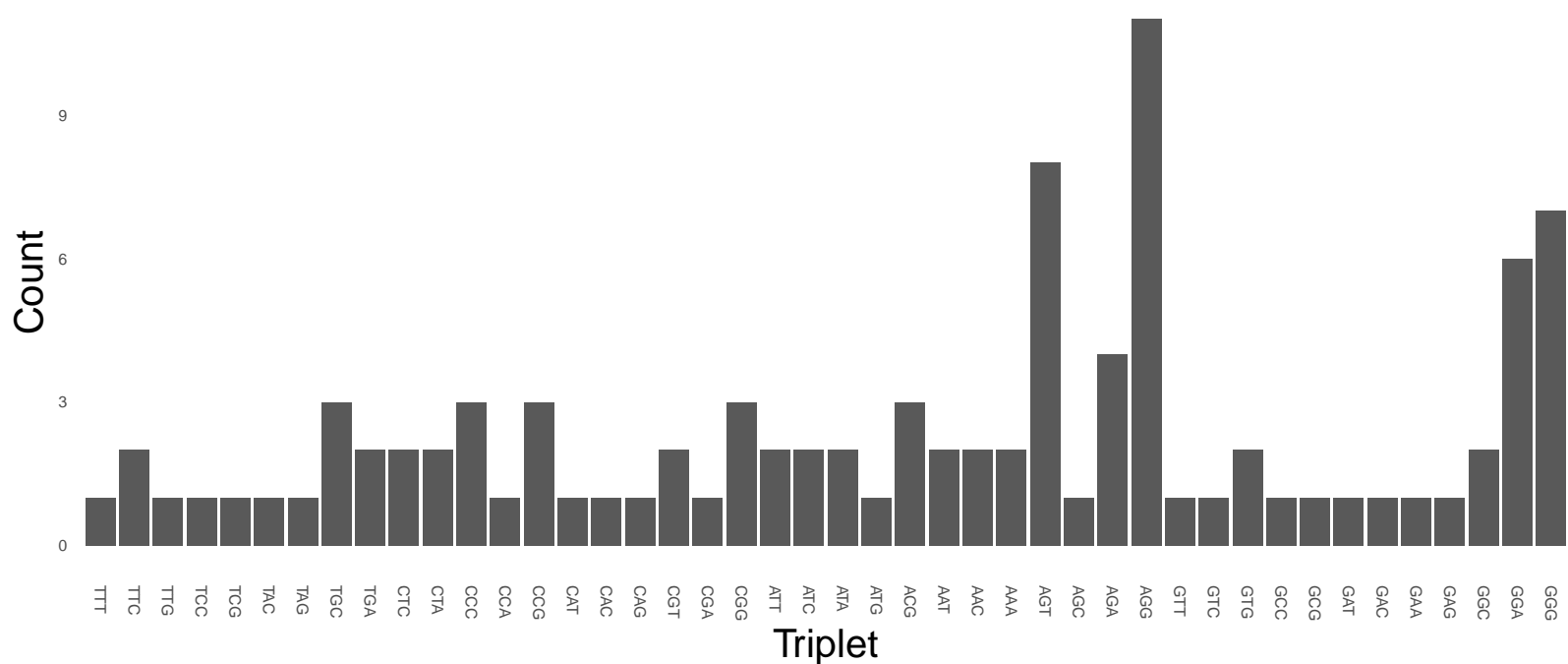
Gene TRBV7-1\*ap01\_G291C\_T296C



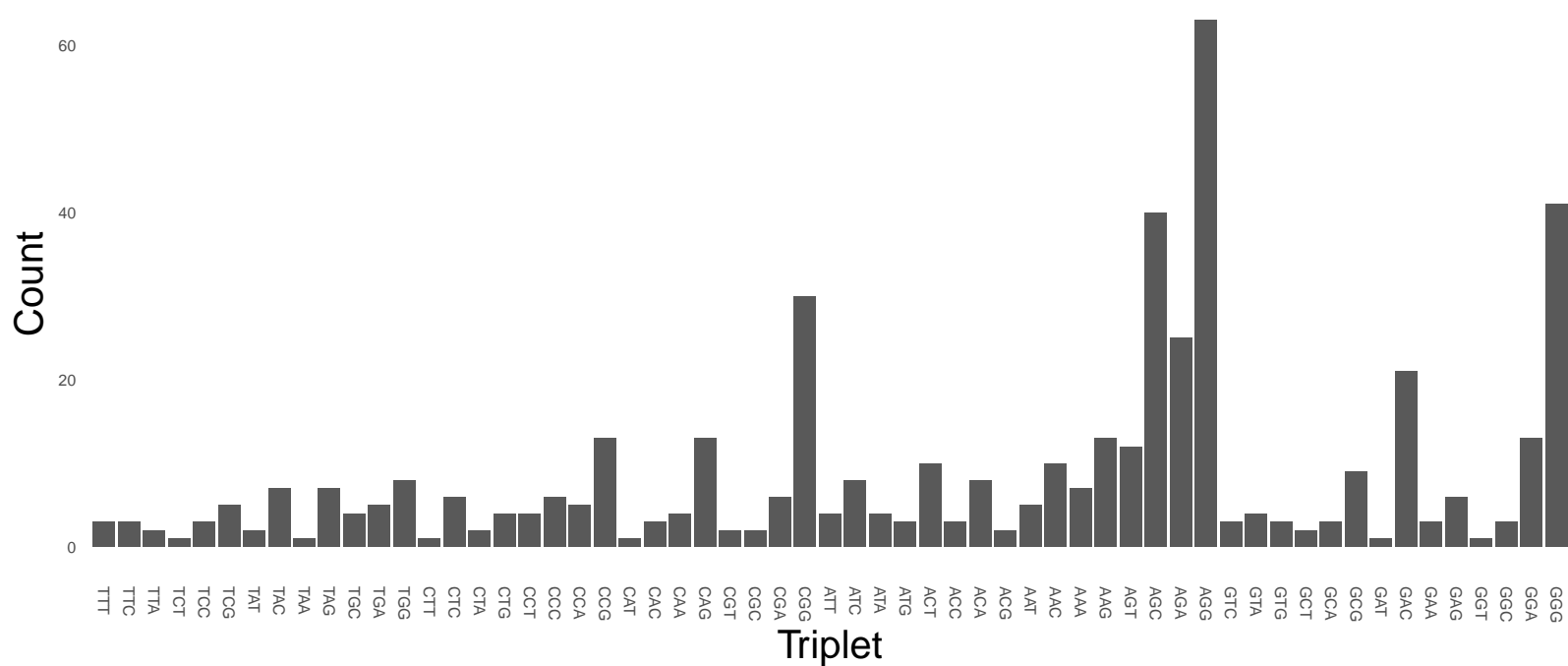
Gene TRBV7-7\*ap01\_C315T



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

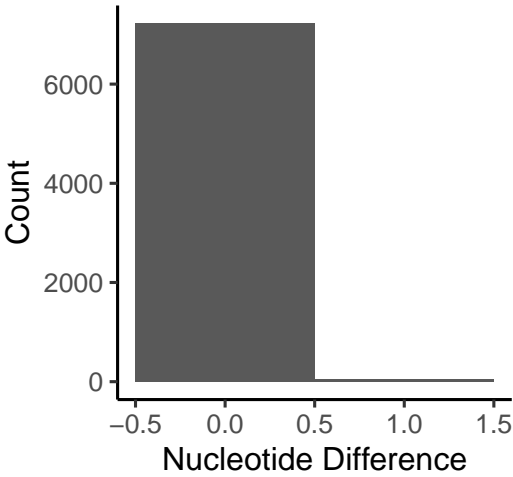


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



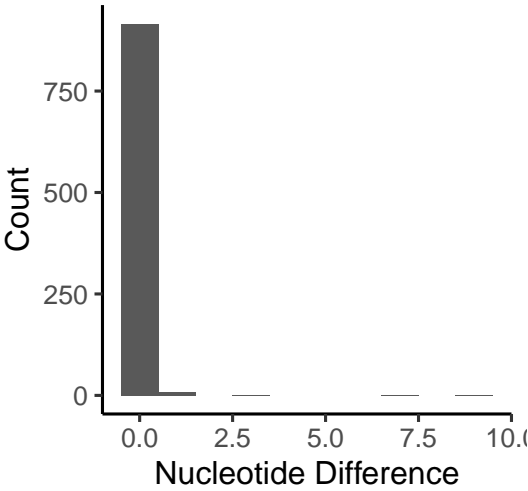
TRBV20-1\*ap01

7283 sequences assigned  
7224 (99.2%) exact matches, in which:  
7169 unique CDR3  
14 unique J



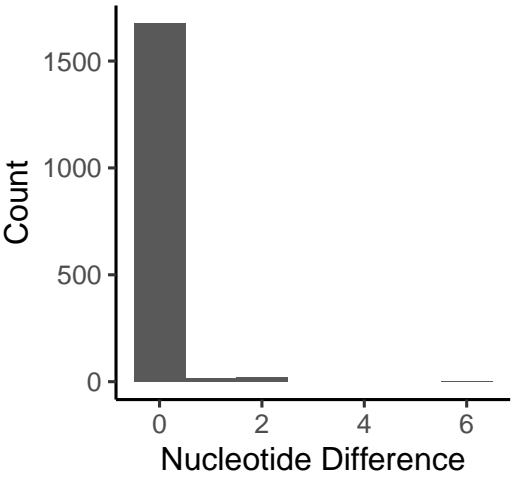
TRBV10-2\*ap01

927 sequences assigned  
916 (98.8%) exact matches, in which:  
906 unique CDR3  
14 unique J



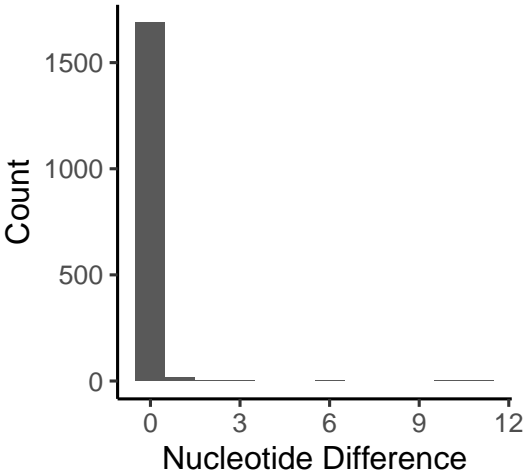
TRBV13\*ap01

1718 sequences assigned  
1676 (97.6%) exact matches, in which:  
1654 unique CDR3  
14 unique J



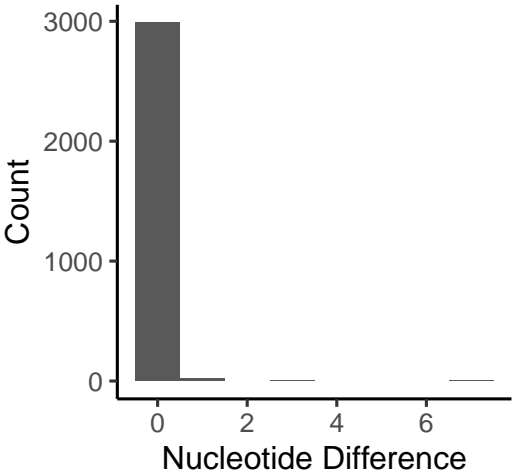
TRBV10-1\*ap01

1713 sequences assigned  
1688 (98.5%) exact matches, in which:  
1664 unique CDR3  
14 unique J



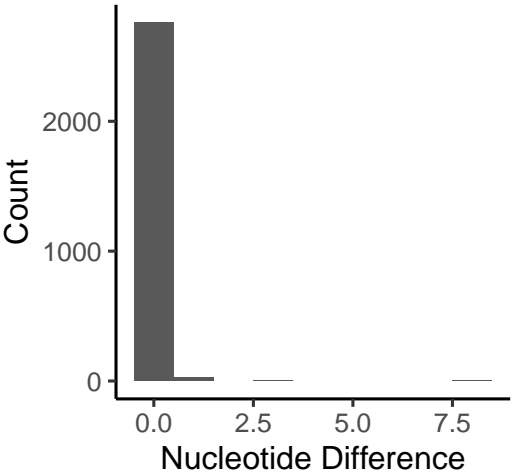
TRBV10-3\*ap01

3010 sequences assigned  
2988 (99.3%) exact matches, in which:  
2939 unique CDR3  
14 unique J



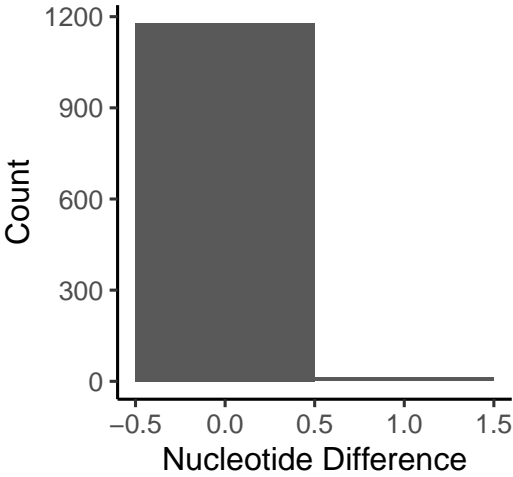
TRBV14\*ap01

2786 sequences assigned  
2759 (99%) exact matches, in which:  
2739 unique CDR3  
14 unique J



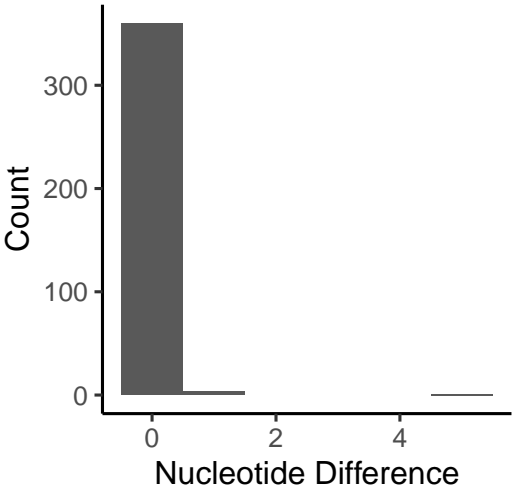
TRBV20-1\*ap02

1192 sequences assigned  
1179 (98.9%) exact matches, in which:  
1172 unique CDR3  
14 unique J



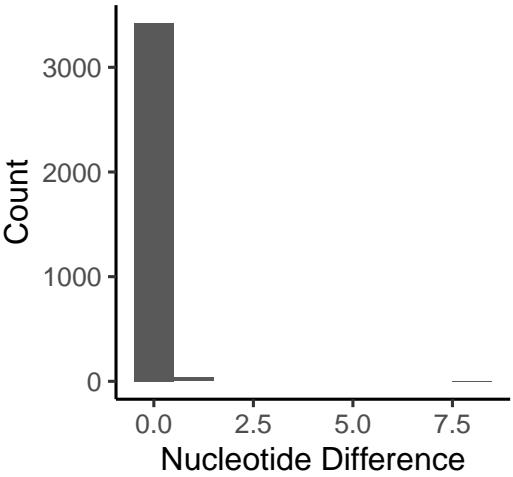
TRBV1\*ap01

364 sequences assigned  
360 (98.9%) exact matches, in which:  
353 unique CDR3  
14 unique J



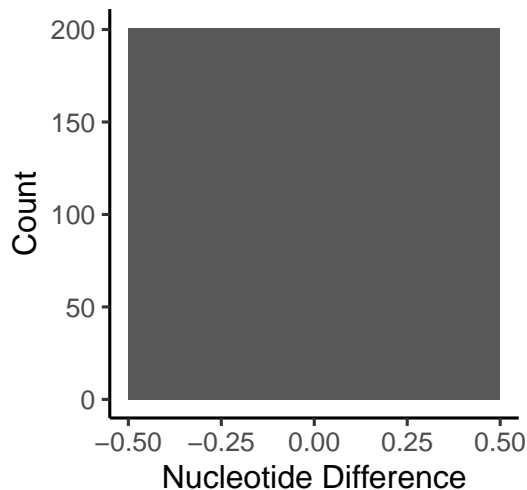
TRBV15\*ap02

3462 sequences assigned  
3423 (98.9%) exact matches, in which:  
3389 unique CDR3  
14 unique J



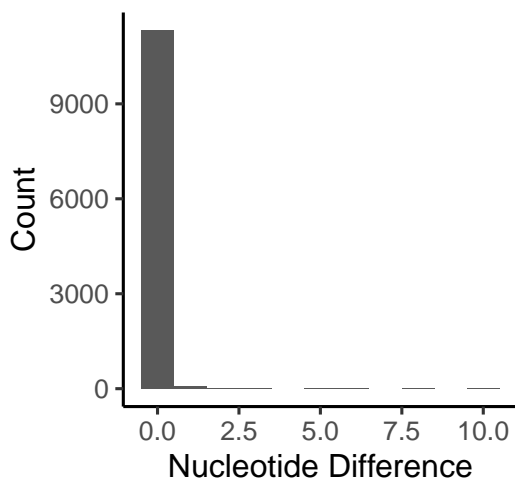
### TRBV16\*ap01

201 sequences assigned  
201 (100%) exact matches, in which:  
200 unique CDR3  
14 unique J



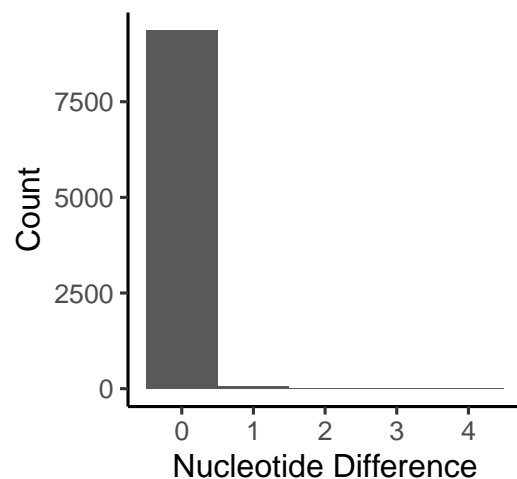
### TRBV19\*ap01

11420 sequences assigned  
11321 (99.1%) exact matches, in which:  
11283 unique CDR3  
14 unique J



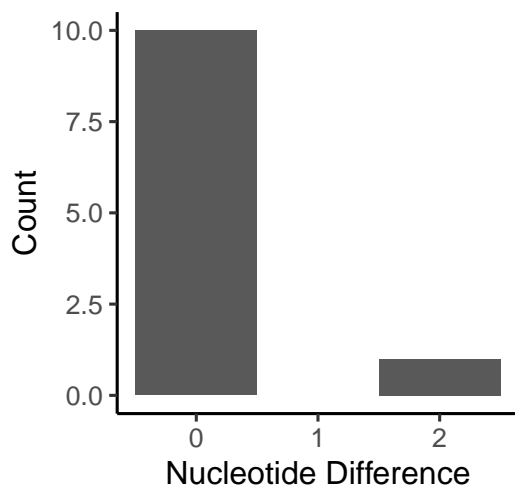
### TRBV27\*ap01

9443 sequences assigned  
9364 (99.2%) exact matches, in which:  
9278 unique CDR3  
14 unique J



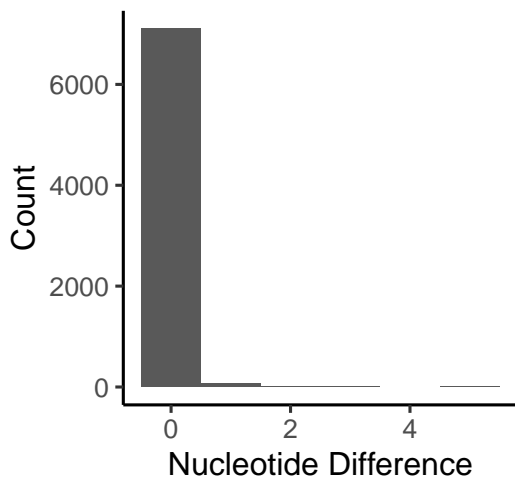
### TRBV17\*ap01

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



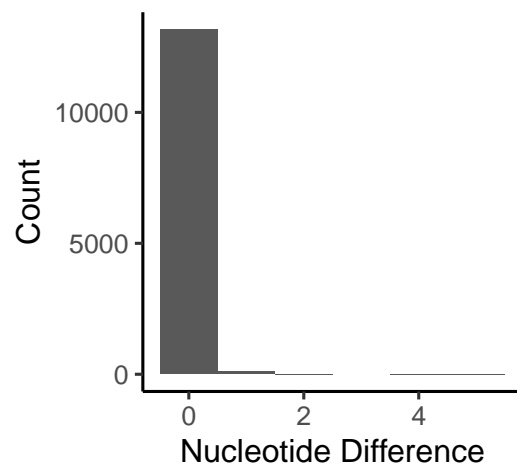
### TRBV2\*ap01

7179 sequences assigned  
7104 (99%) exact matches, in which:  
7031 unique CDR3  
14 unique J



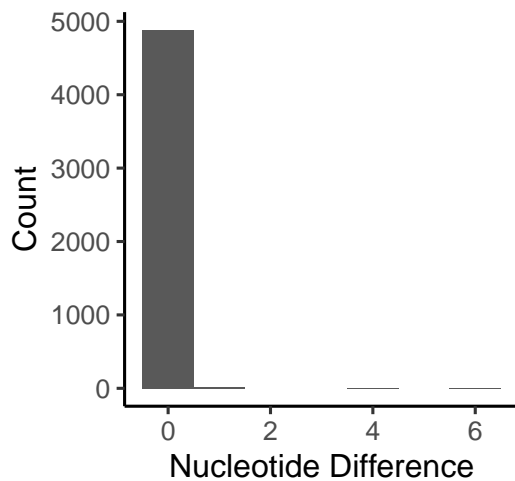
### TRBV28\*ap01

13284 sequences assigned  
13166 (99.1%) exact matches, in which:  
13070 unique CDR3  
14 unique J



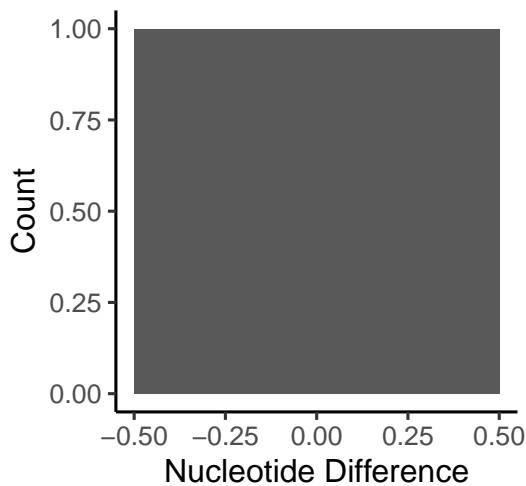
### TRBV18\*ap01

4897 sequences assigned  
4881 (99.7%) exact matches, in which:  
4860 unique CDR3  
14 unique J



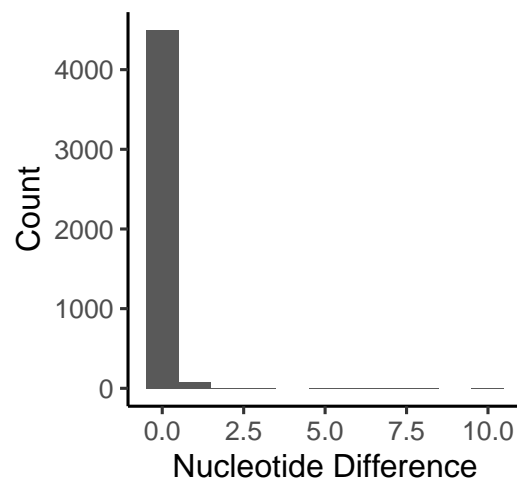
### TRBV26\*ap01

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



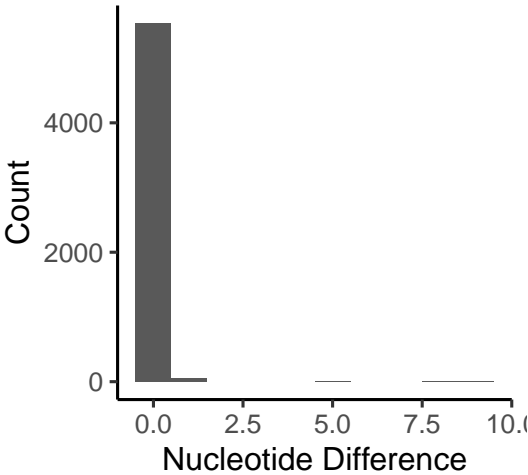
### TRBV30\*ap02

4582 sequences assigned  
4497 (98.1%) exact matches, in which:  
4464 unique CDR3  
14 unique J



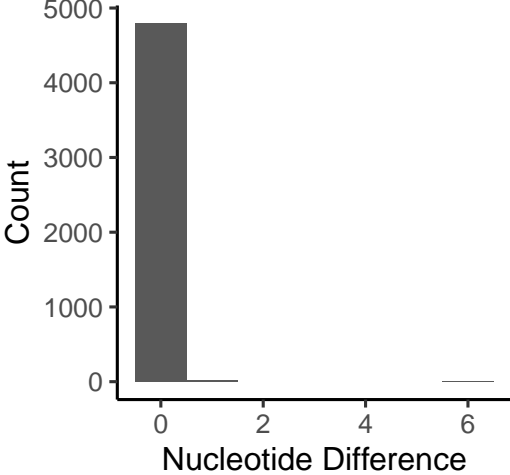
TRBV9\*ap01

5590 sequences assigned  
5536 (99%) exact matches, in which:  
5508 unique CDR3  
14 unique J



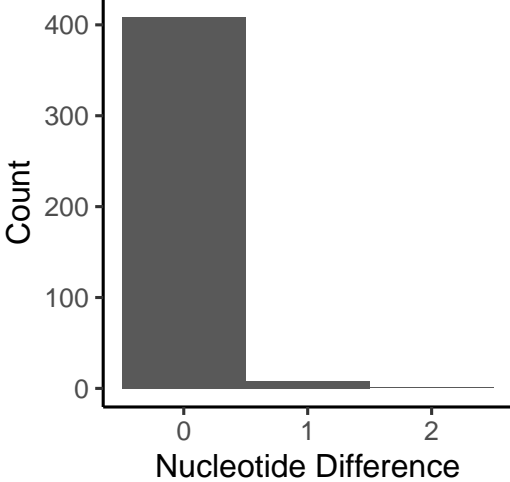
TRBV11-2\*ap01

4814 sequences assigned  
4794 (99.6%) exact matches, in which:  
4767 unique CDR3  
14 unique J



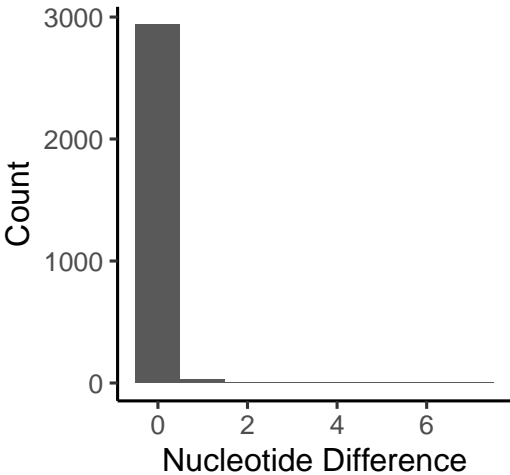
TRBV12-2\*ap01

418 sequences assigned  
409 (97.8%) exact matches, in which:  
405 unique CDR3  
14 unique J



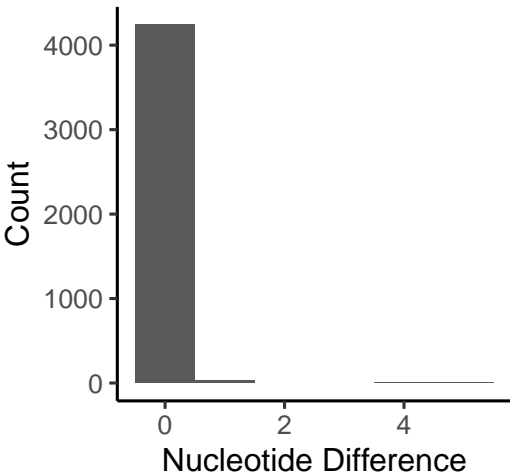
TRBV21-1\*ap01

2981 sequences assigned  
2937 (98.5%) exact matches, in which:  
2921 unique CDR3  
14 unique J



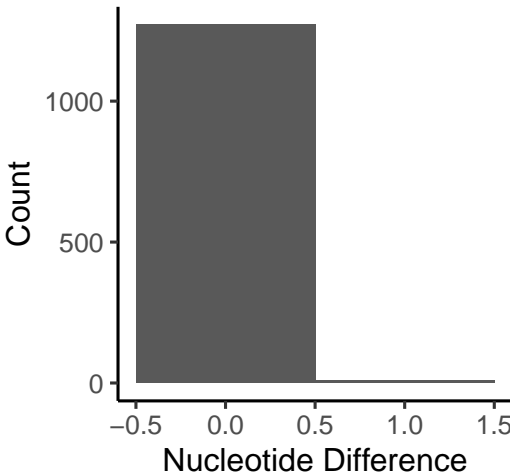
TRBV11-3\*ap01

4279 sequences assigned  
4242 (99.1%) exact matches, in which:  
4222 unique CDR3  
14 unique J



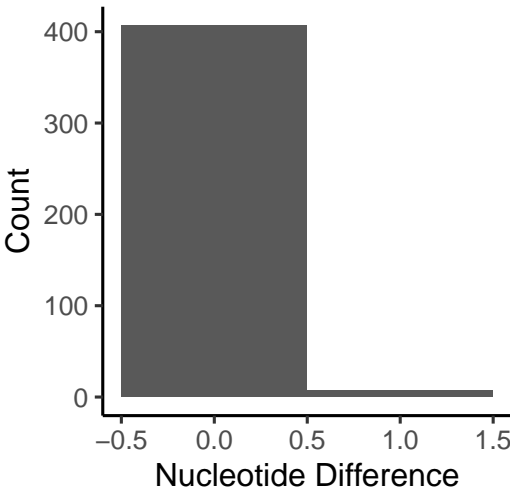
TRBV12-5\*ap01

1281 sequences assigned  
1271 (99.2%) exact matches, in which:  
1261 unique CDR3  
14 unique J



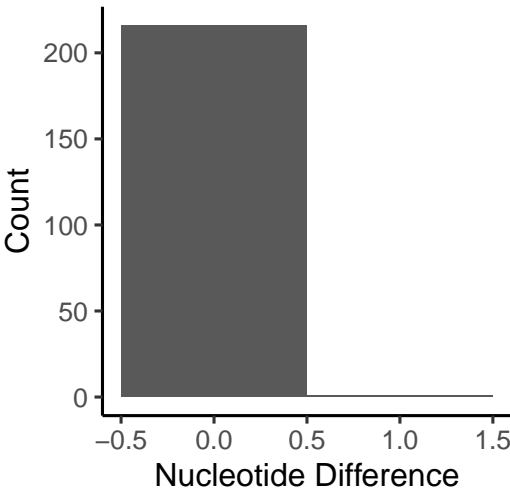
TRBV11-1\*ap01

414 sequences assigned  
407 (98.3%) exact matches, in which:  
403 unique CDR3  
14 unique J



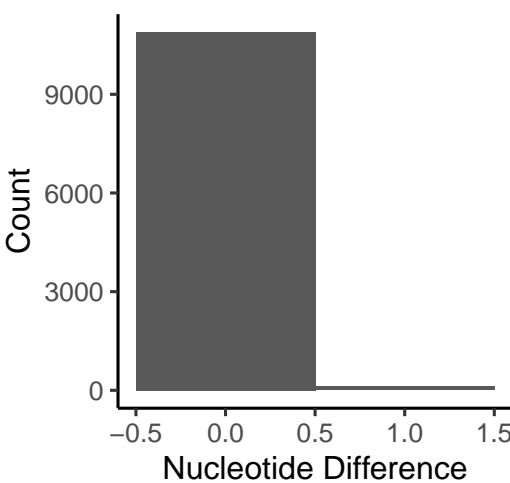
TRBV12-1\*ap01

217 sequences assigned  
216 (99.5%) exact matches, in which:  
215 unique CDR3  
14 unique J



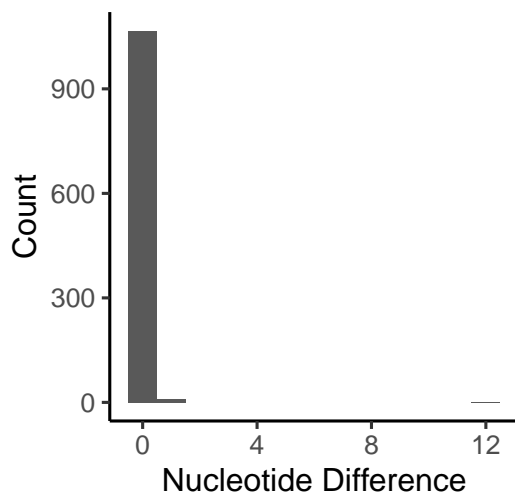
TRBV12-34\*ap01

11012 sequences assigned  
10893 (98.9%) exact matches, in which:  
10789 unique CDR3  
14 unique J



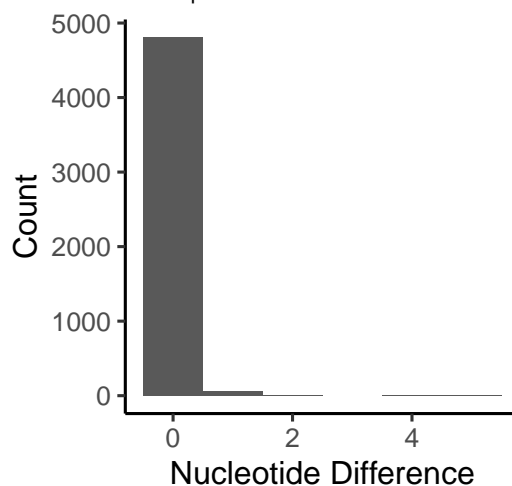
### TRBV23-1\*ap01

1077 sequences assigned  
1067 (99.1%) exact matches, in which:  
1058 unique CDR3  
14 unique J



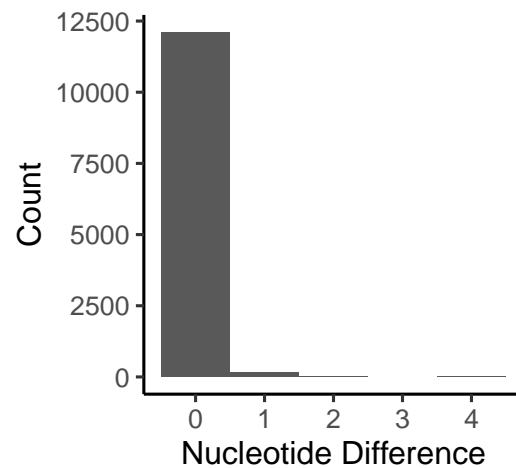
### TRBV24-1\*ap01

4867 sequences assigned  
4807 (98.8%) exact matches, in which:  
4758 unique CDR3  
14 unique J



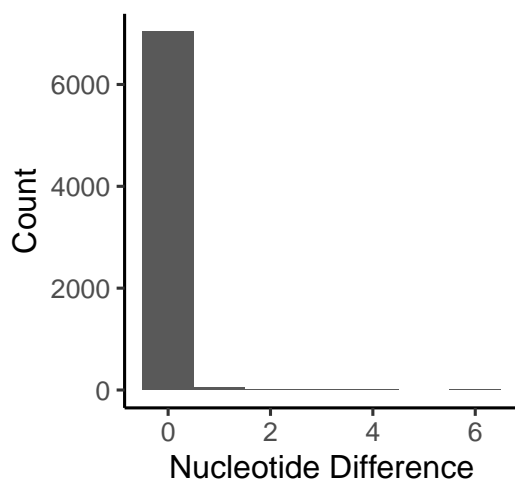
### TRBV5-1\*ap01

12262 sequences assigned  
12110 (98.8%) exact matches, in which:  
11968 unique CDR3  
14 unique J



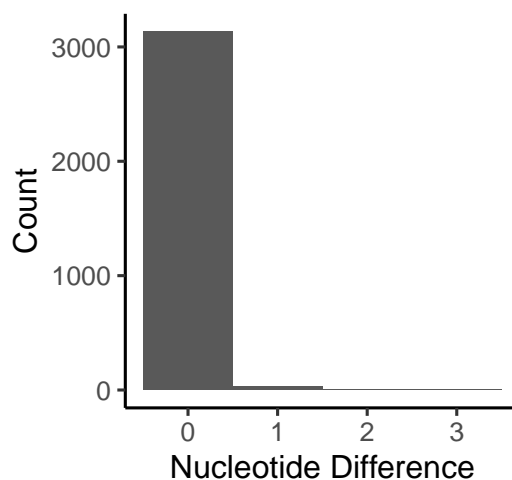
### TRBV3-12\*ap01

7100 sequences assigned  
7036 (99.1%) exact matches, in which:  
7001 unique CDR3  
14 unique J



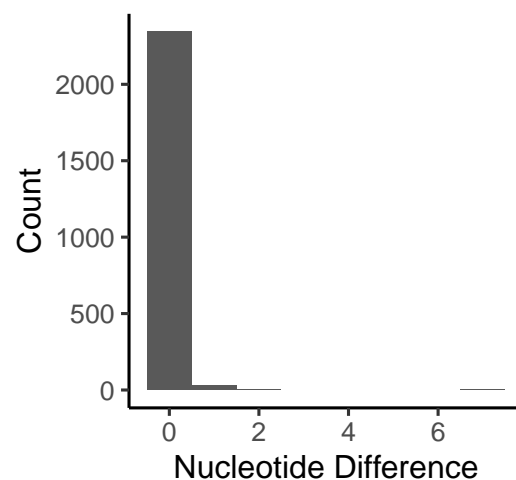
### TRBV4-2\*ap01

3167 sequences assigned  
3133 (98.9%) exact matches, in which:  
3108 unique CDR3  
14 unique J



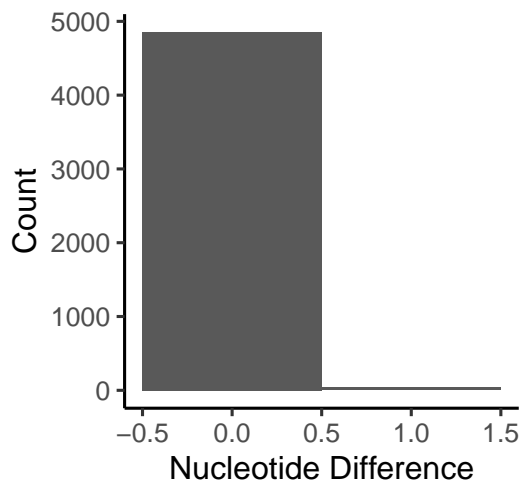
### TRBV25-1\*ap01

2382 sequences assigned  
2344 (98.4%) exact matches, in which:  
2321 unique CDR3  
14 unique J



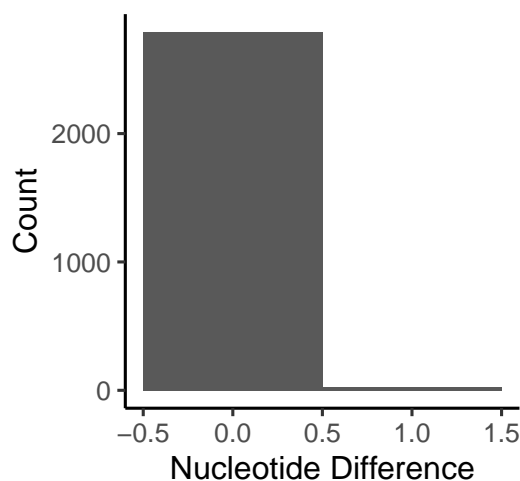
### TRBV4-1\*ap01

4893 sequences assigned  
4855 (99.2%) exact matches, in which:  
4801 unique CDR3  
14 unique J



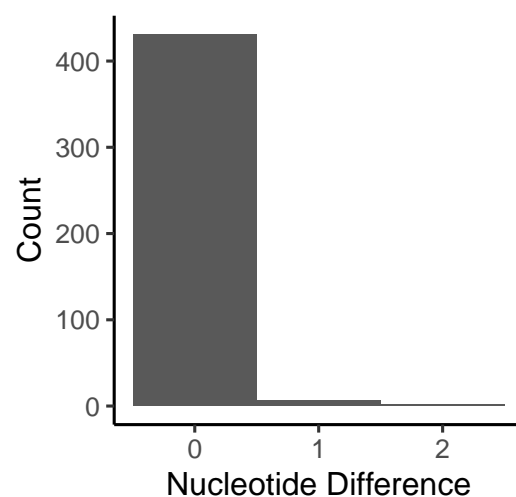
### TRBV4-3\*ap01

2815 sequences assigned  
2791 (99.1%) exact matches, in which:  
2773 unique CDR3  
14 unique J



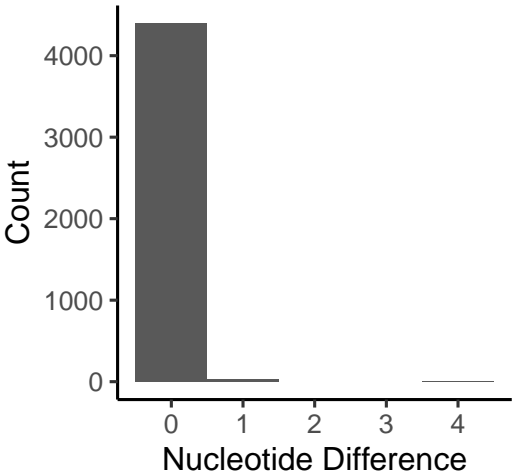
### TRBV5-3\*ap01

439 sequences assigned  
431 (98.2%) exact matches, in which:  
424 unique CDR3  
14 unique J



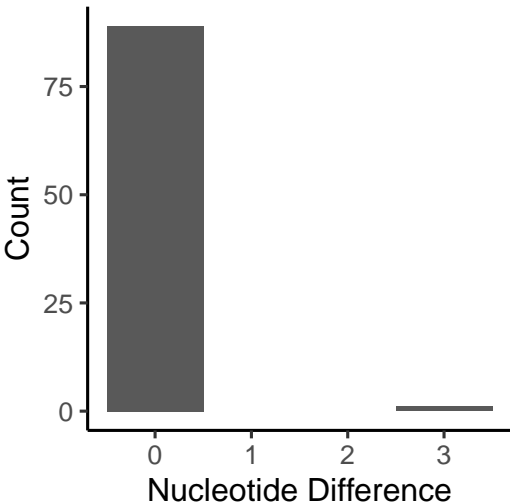
TRBV5-4\*ap01

4432 sequences assigned  
4396 (99.2%) exact matches, in which:  
4353 unique CDR3  
14 unique J



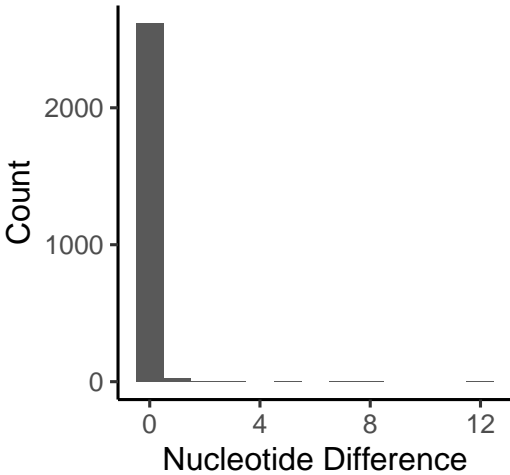
TRBV5-7\*ap01

90 sequences assigned  
89 (98.9%) exact matches, in which:  
87 unique CDR3  
13 unique J



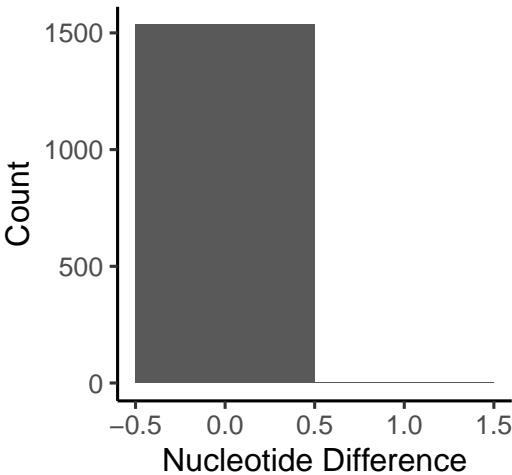
TRBV6-4\*ap01

2652 sequences assigned  
2616 (98.6%) exact matches, in which:  
2601 unique CDR3  
14 unique J



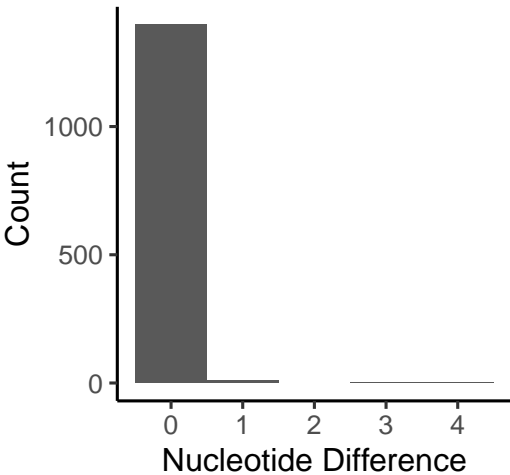
TRBV5-5\*ap01

1539 sequences assigned  
1535 (99.7%) exact matches, in which:  
1533 unique CDR3  
14 unique J



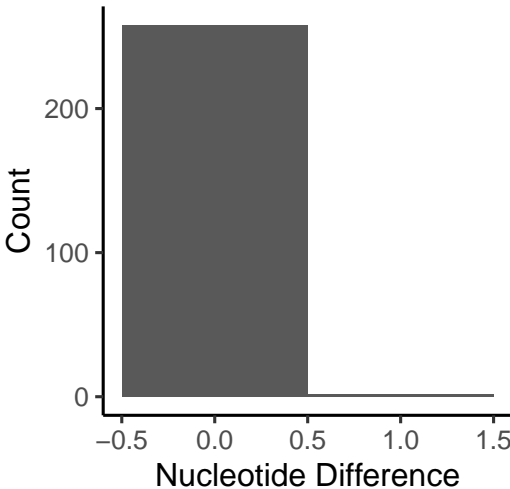
TRBV5-8\*ap01

1409 sequences assigned  
1397 (99.1%) exact matches, in which:  
1383 unique CDR3  
14 unique J



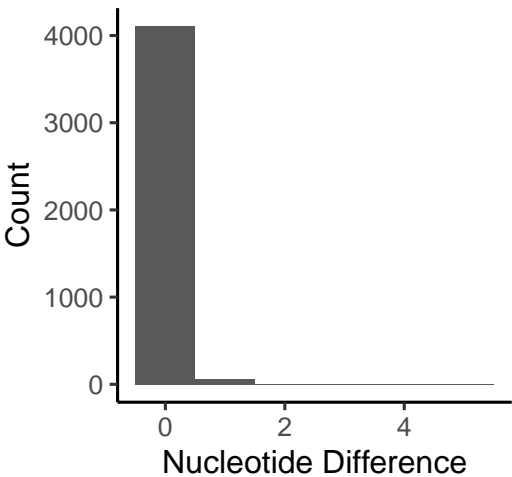
TRBV6-7\*ap01

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



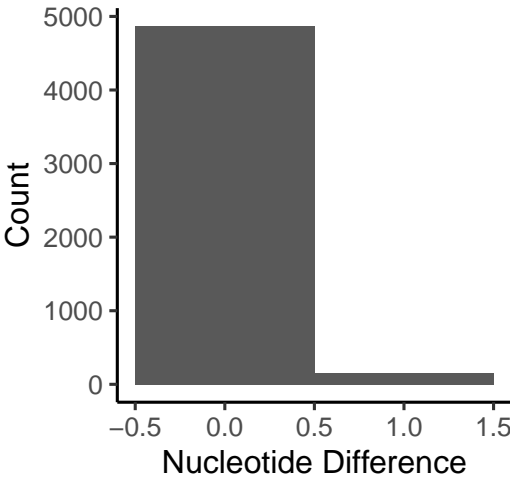
TRBV5-6\*ap01

4174 sequences assigned  
4109 (98.4%) exact matches, in which:  
4045 unique CDR3  
14 unique J



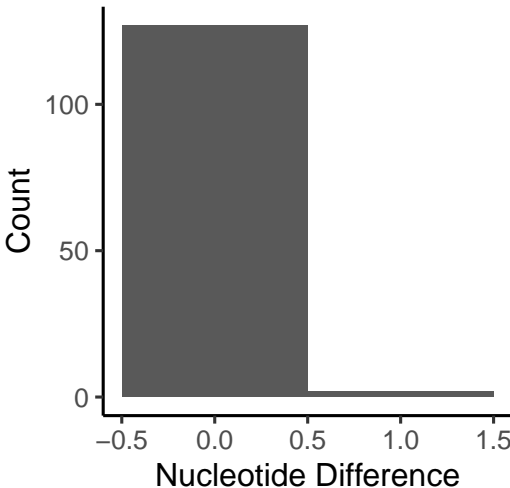
TRBV6-1\*ap01

5027 sequences assigned  
4869 (96.9%) exact matches, in which:  
4809 unique CDR3  
14 unique J



TRBV6-8\*ap01

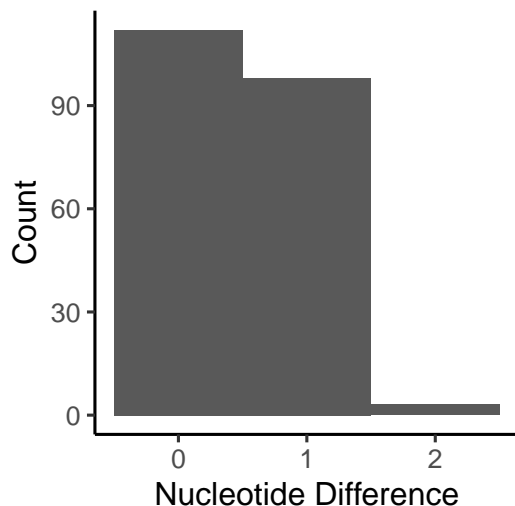
129 sequences assigned  
127 (98.4%) exact matches, in which:  
126 unique CDR3  
14 unique J





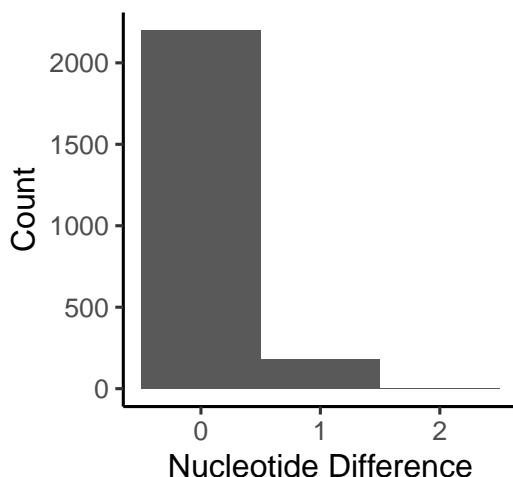
### TRBV6–9\*ap01

213 sequences assigned  
112 (52.6%) exact matches, in which:  
112 unique CDR3  
14 unique J



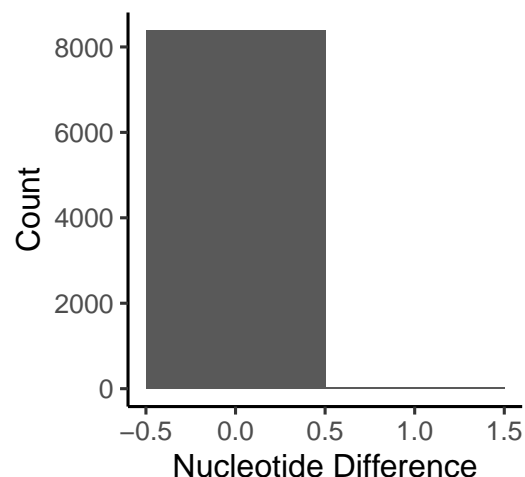
### TRBV6–56\*ap02

2385 sequences assigned  
2199 (92.2%) exact matches, in which:  
2172 unique CDR3  
14 unique J



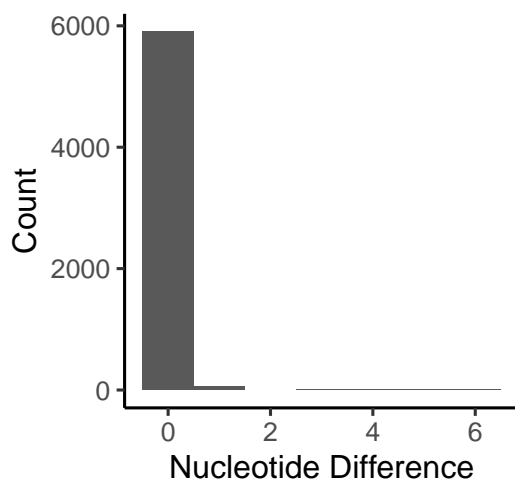
### TRBV7–2\*ap01

8432 sequences assigned  
8387 (99.5%) exact matches, in which:  
8341 unique CDR3  
14 unique J



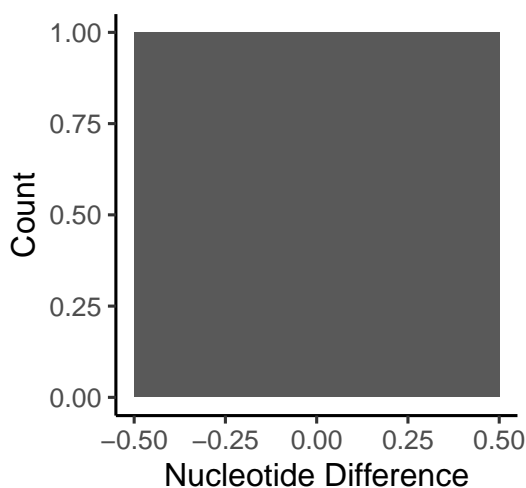
### TRBV6–23\*ap01

5965 sequences assigned  
5903 (99%) exact matches, in which:  
5824 unique CDR3  
14 unique J



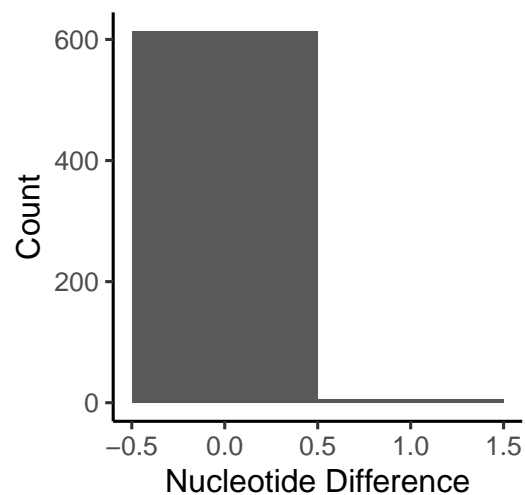
### TRBV7–1\*ap01

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



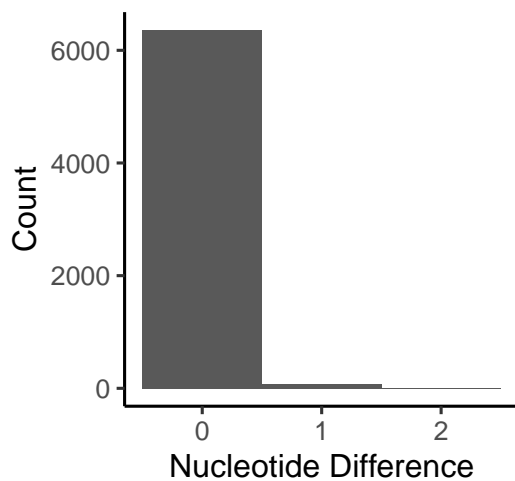
### TRBV7–3\*ap02

619 sequences assigned  
614 (99.2%) exact matches, in which:  
607 unique CDR3  
13 unique J



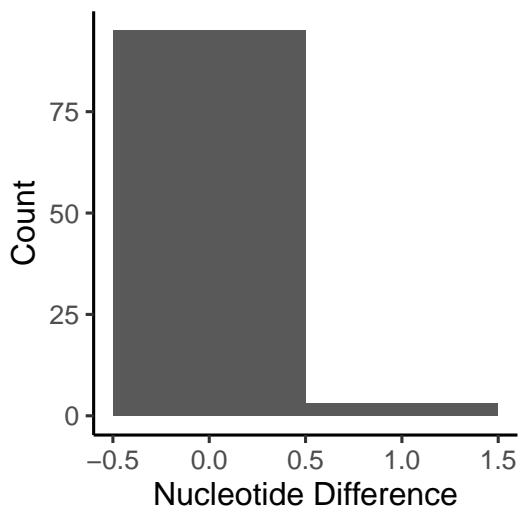
### TRBV6–56\*ap01

6436 sequences assigned  
6360 (98.8%) exact matches, in which:  
6287 unique CDR3  
14 unique J



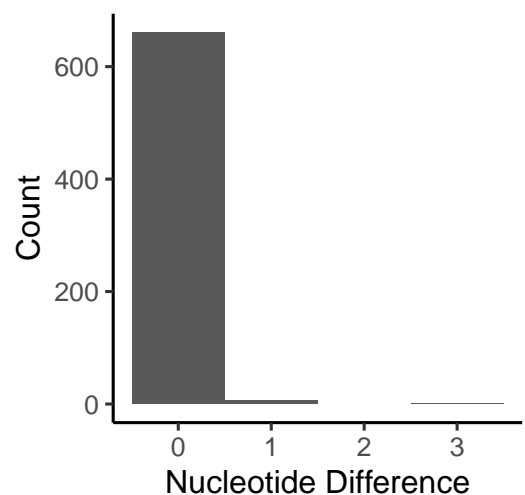
### TRBV7–1\*ap01\_G291C\_T

98 sequences assigned  
95 (96.9%) exact matches, in which:  
95 unique CDR3  
14 unique J



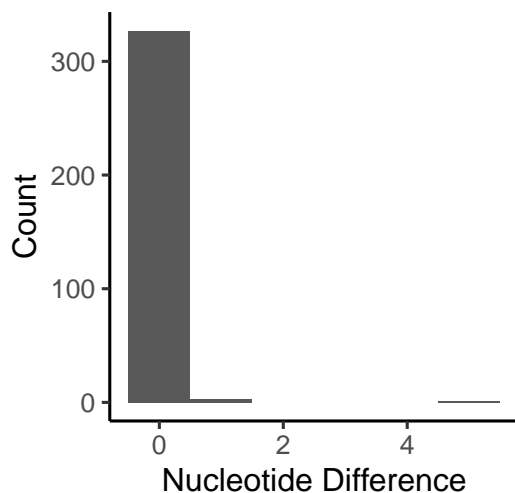
### TRBV7–3\*ap03

669 sequences assigned  
661 (98.8%) exact matches, in which:  
658 unique CDR3  
13 unique J



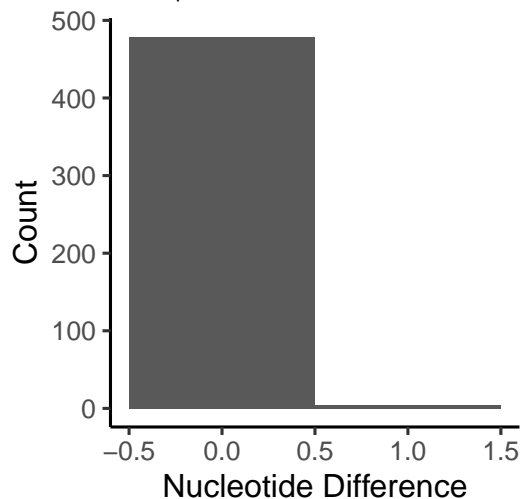
### TRBV7-4\*ap01

331 sequences assigned  
327 (98.8%) exact matches, in which:  
323 unique CDR3  
14 unique J



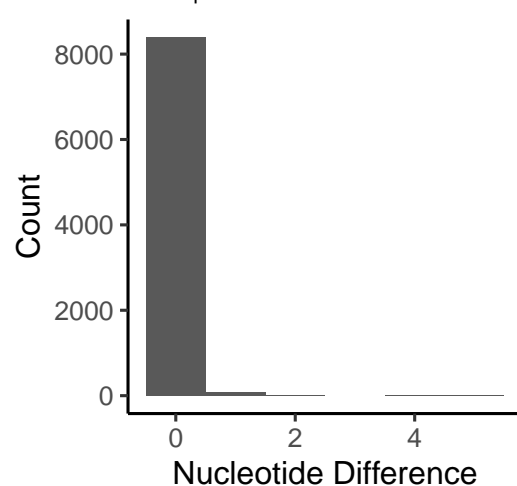
### TRBV7-7\*ap01\_C315T

483 sequences assigned  
479 (99.2%) exact matches, in which:  
476 unique CDR3  
13 unique J



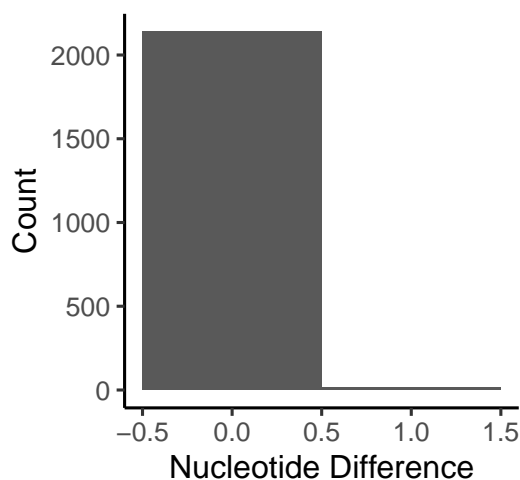
### TRBV7-9\*ap01

8476 sequences assigned  
8391 (99%) exact matches, in which:  
8333 unique CDR3  
14 unique J



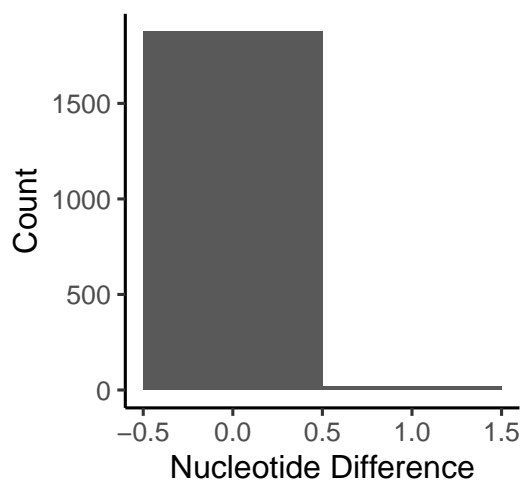
### TRBV7-6\*ap01

2152 sequences assigned  
2139 (99.4%) exact matches, in which:  
2122 unique CDR3  
14 unique J



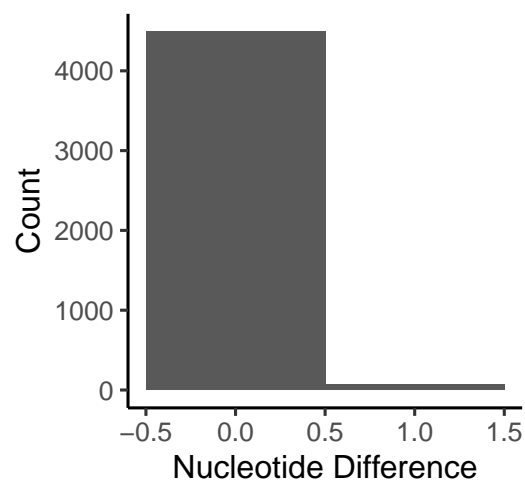
### TRBV7-8\*ap01

1895 sequences assigned  
1875 (98.9%) exact matches, in which:  
1864 unique CDR3  
14 unique J



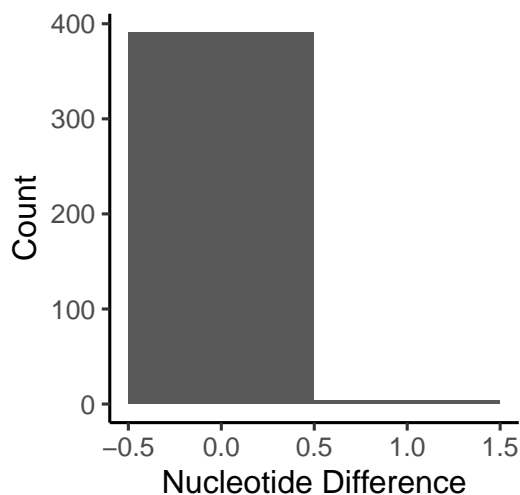
### TRBV29-1\*ap01

4553 sequences assigned  
4490 (98.6%) exact matches, in which:  
4431 unique CDR3  
14 unique J



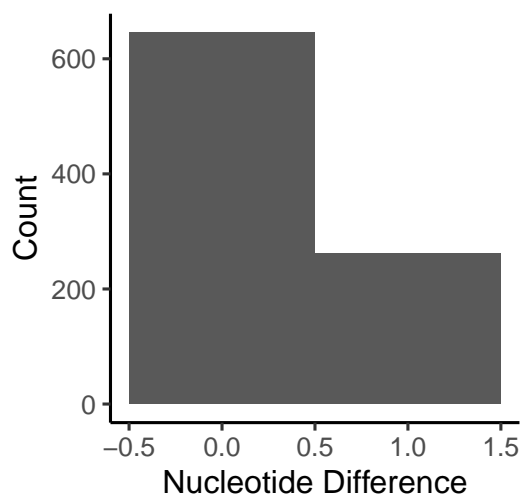
### TRBV7-7\*ap01

395 sequences assigned  
391 (99%) exact matches, in which:  
385 unique CDR3  
13 unique J



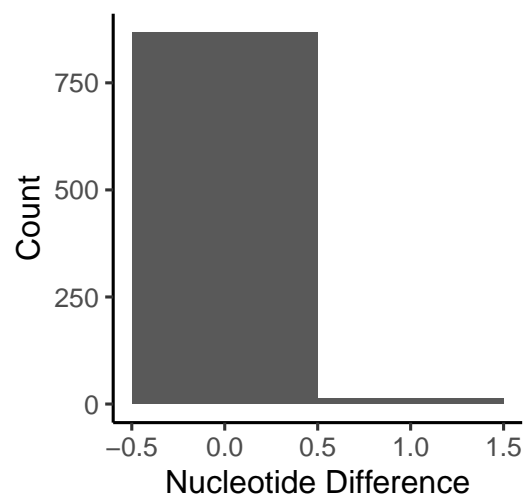
### TRBV7-8\*ap03

907 sequences assigned  
646 (71.2%) exact matches, in which:  
638 unique CDR3  
14 unique J

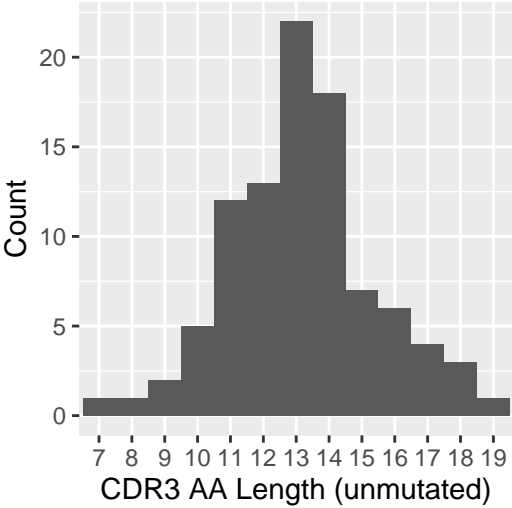


### TRBV29-1\*ap02

880 sequences assigned  
868 (98.6%) exact matches, in which:  
858 unique CDR3  
14 unique J



TRBV7-1\*ap01\_G291C\_T296C



TRBV7-7\*ap01\_C315T

