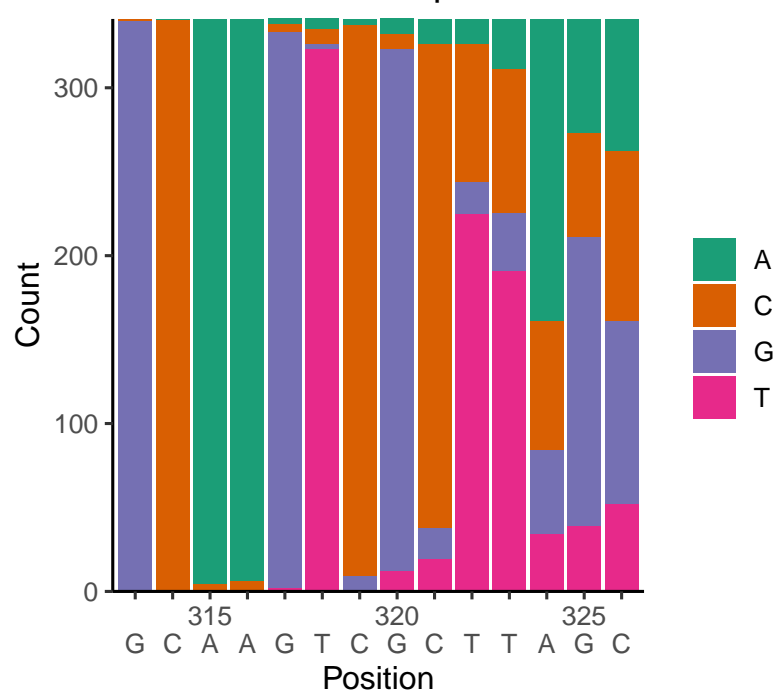
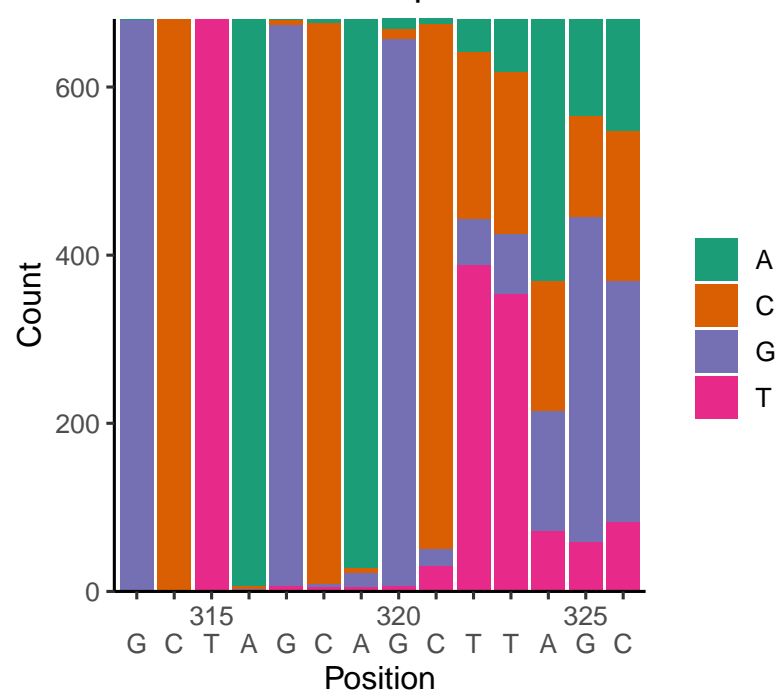


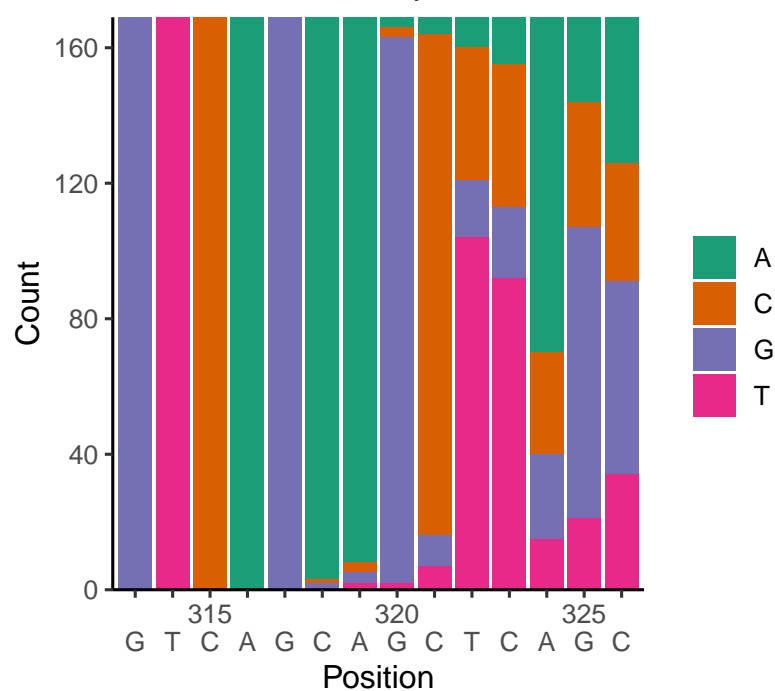
Gene TRBV12-2\*ap01\_G301A



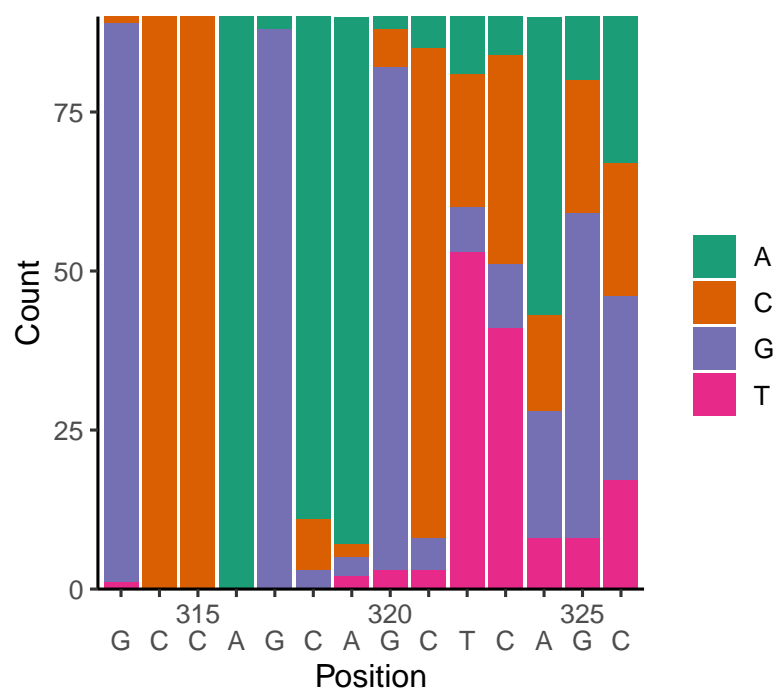
Gene TRBV7-7\*ap01\_C315T



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



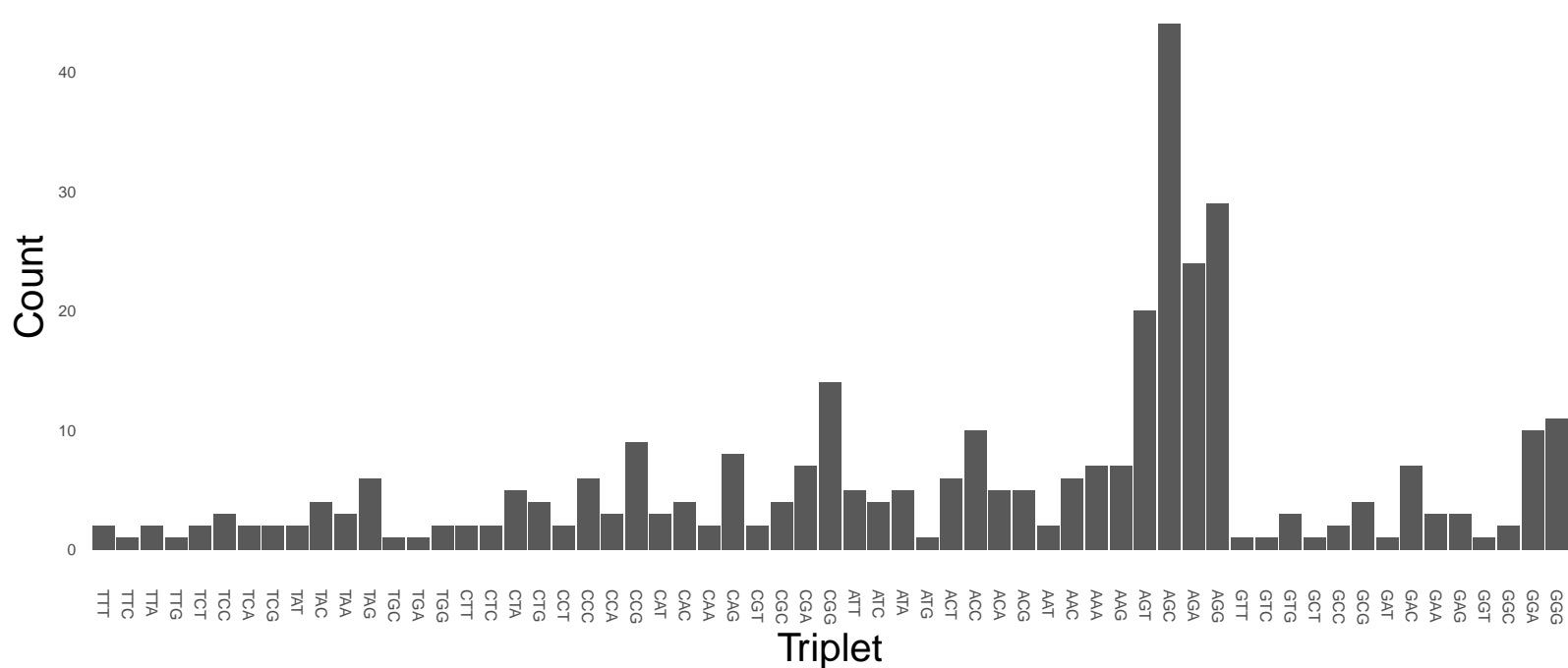
Gene TRBV7-1\*ap01\_G291C\_T296C



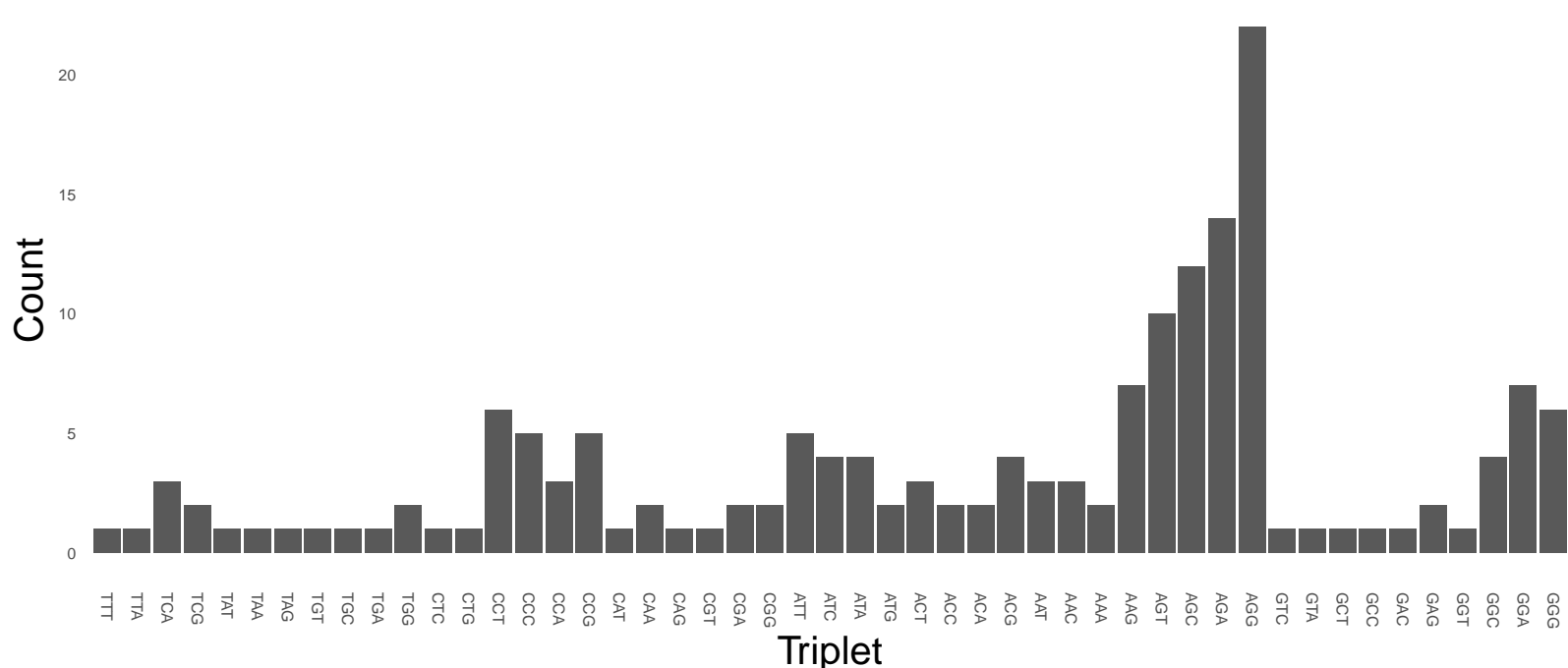
Gene TRBV7-7\*ap01\_C315T



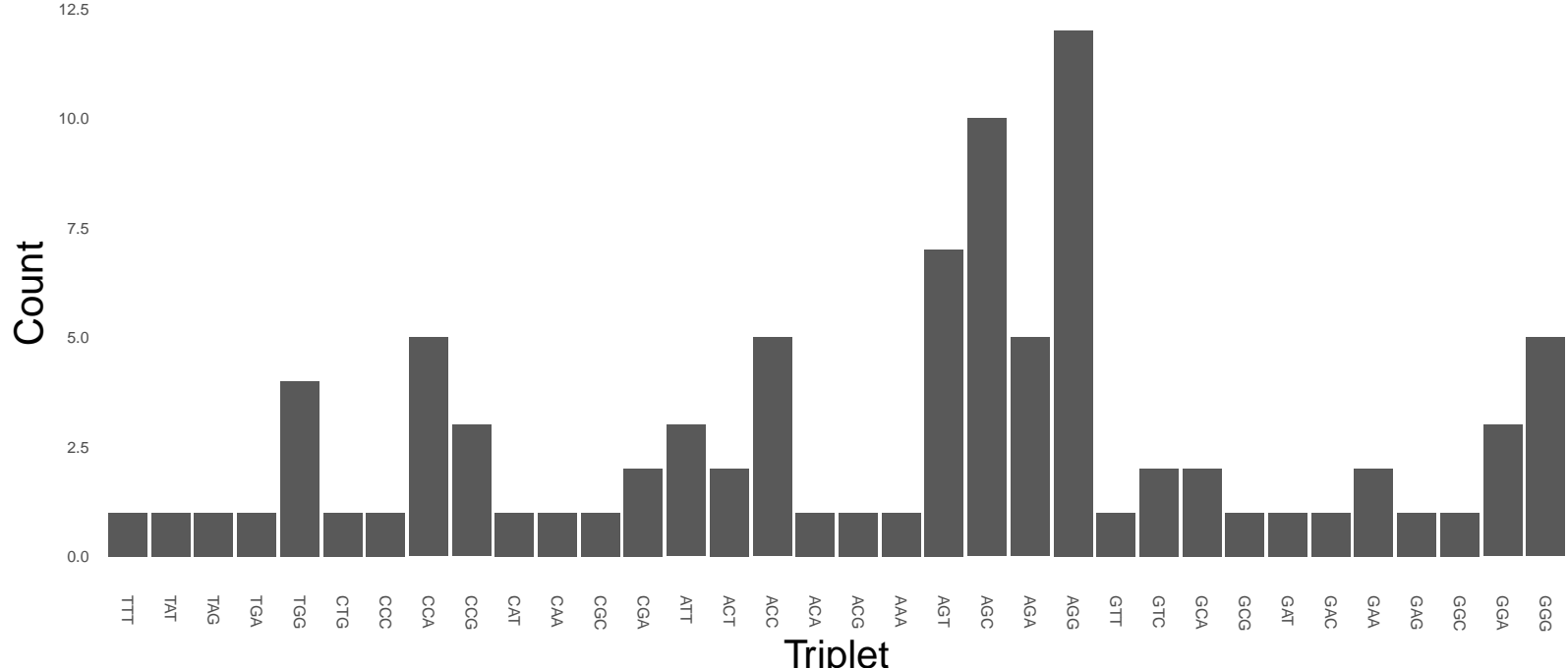
TRBV12-2\*ap01\_G301A- Final 3 nucleotides as a triplet



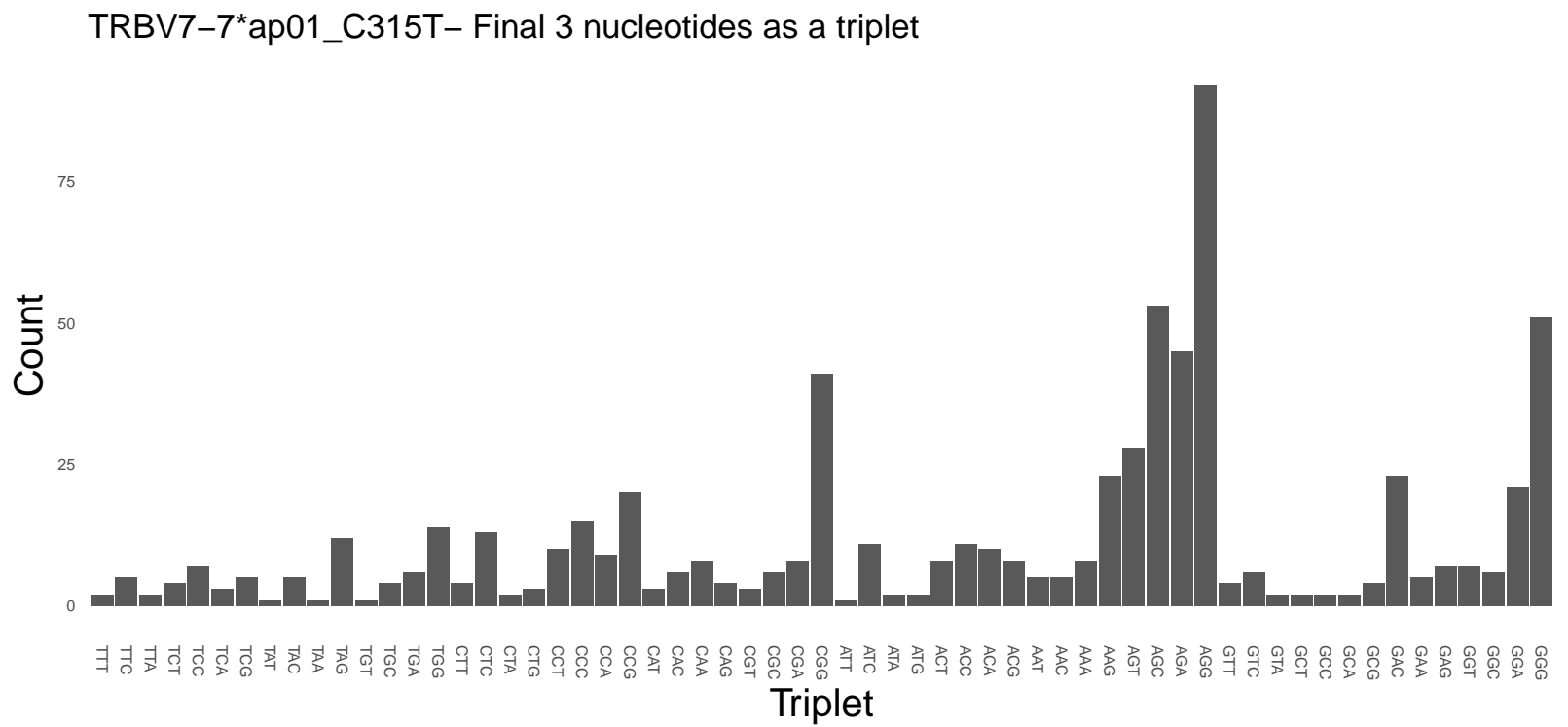
TRBV7-1\*ap01\_G291C\_T296C\_C314T- Final 3 nucleotides as a triplet



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

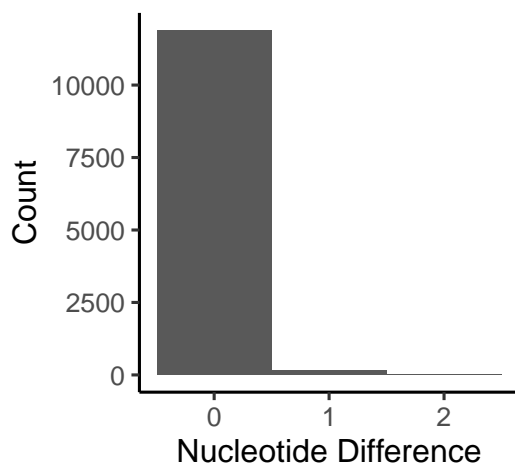


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



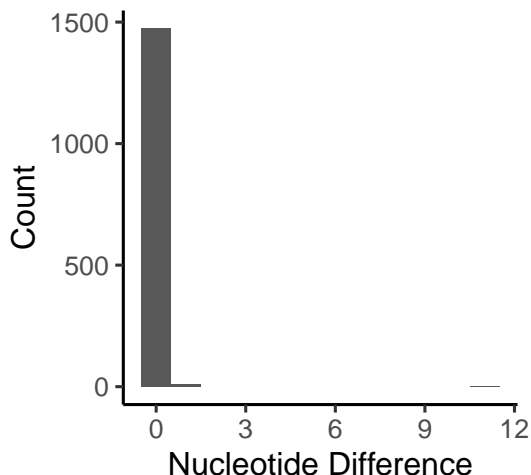
### TRBV20-1\*ap01

12051 sequences assigned  
11894 (98.7%) exact matches, in which:  
11658 unique CDR3  
13 unique J



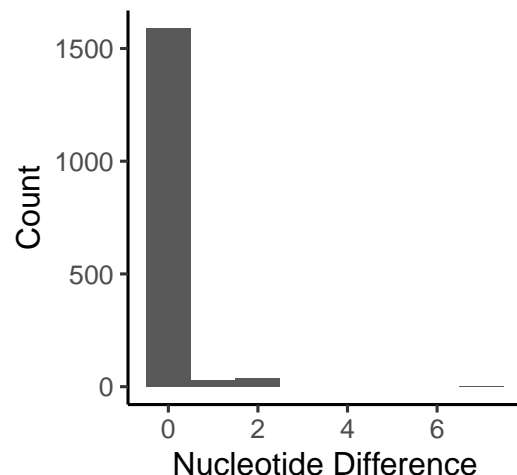
### TRBV10-2\*ap01

1485 sequences assigned  
1474 (99.3%) exact matches, in which:  
1443 unique CDR3  
13 unique J



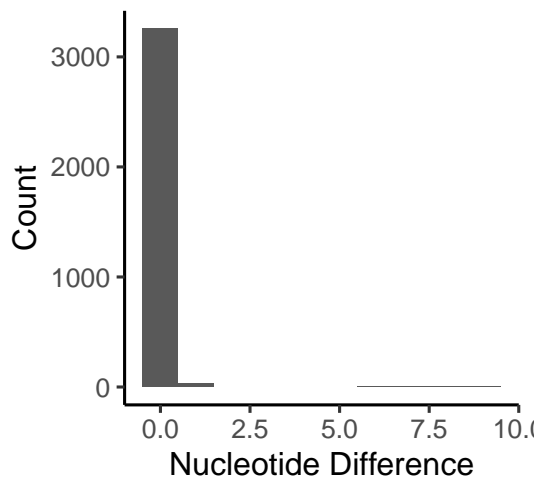
### TRBV13\*ap01

1654 sequences assigned  
1589 (96.1%) exact matches, in which:  
1535 unique CDR3  
13 unique J



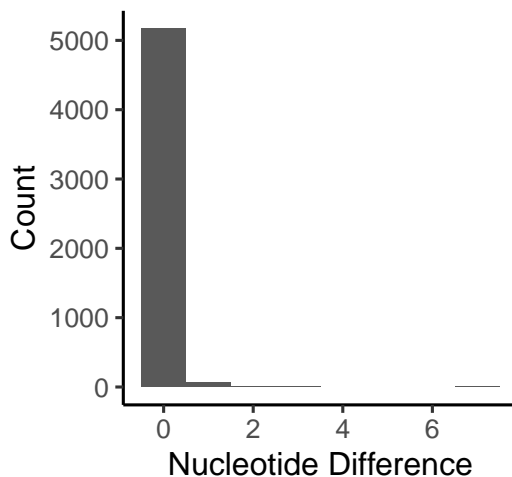
### TRBV10-1\*ap01

3295 sequences assigned  
3256 (98.8%) exact matches, in which:  
3146 unique CDR3  
13 unique J



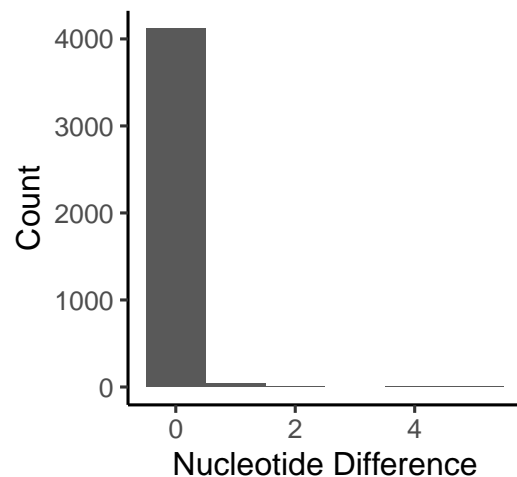
### TRBV10-3\*ap01

5233 sequences assigned  
5168 (98.8%) exact matches, in which:  
5013 unique CDR3  
13 unique J



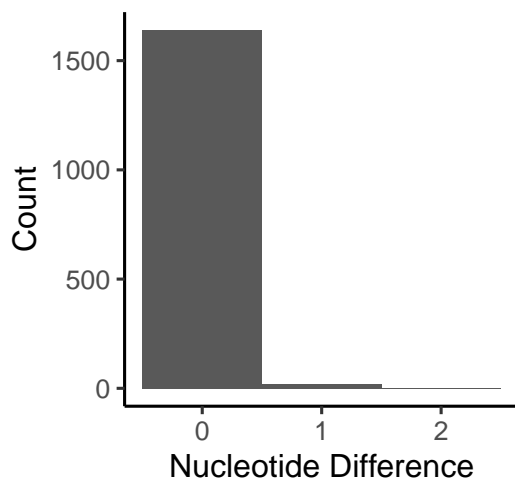
### TRBV14\*ap01

4157 sequences assigned  
4117 (99%) exact matches, in which:  
4039 unique CDR3  
13 unique J



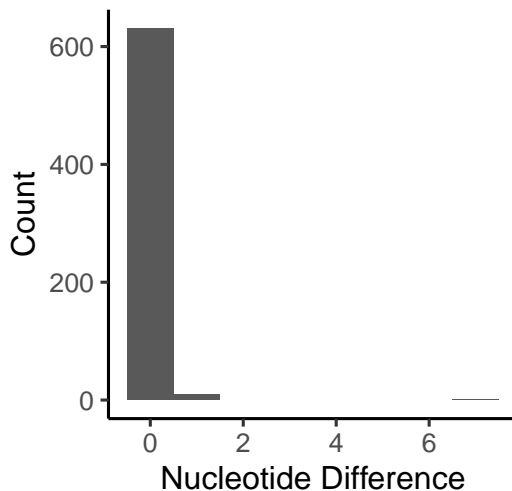
### TRBV20-1\*ap02

1661 sequences assigned  
1640 (98.7%) exact matches, in which:  
1598 unique CDR3  
13 unique J



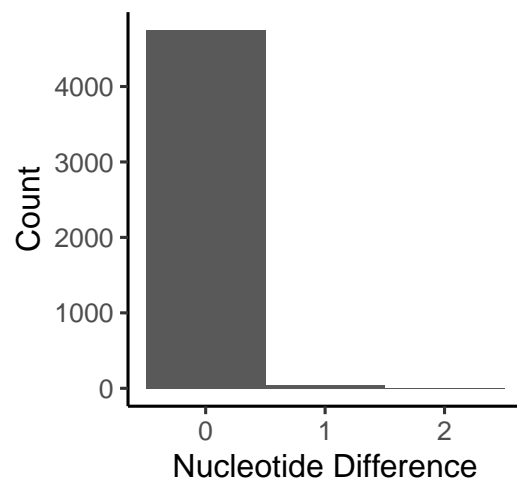
### TRBV1\*ap01

642 sequences assigned  
631 (98.3%) exact matches, in which:  
611 unique CDR3  
13 unique J



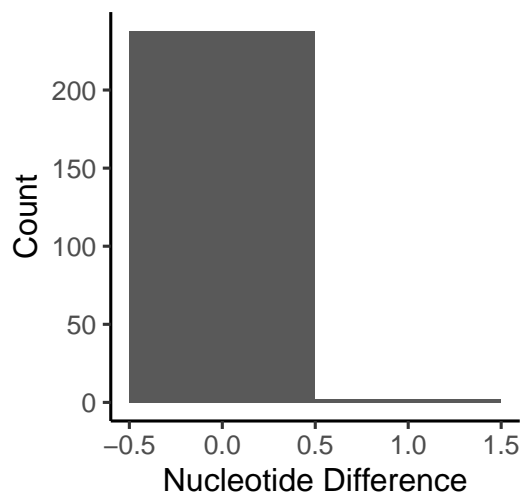
### TRBV15\*ap02

4796 sequences assigned  
4748 (99%) exact matches, in which:  
4621 unique CDR3  
13 unique J



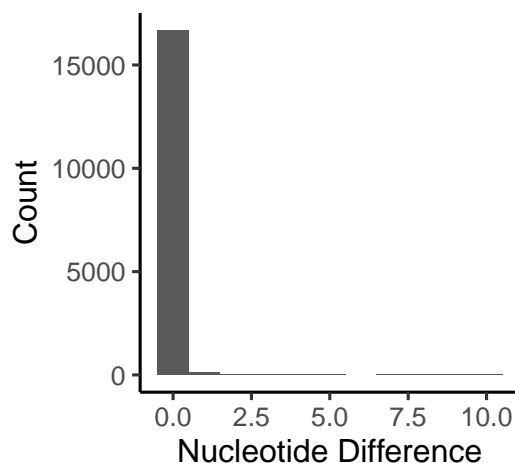
### TRBV16\*ap01

240 sequences assigned  
238 (99.2%) exact matches, in which:  
235 unique CDR3  
13 unique J



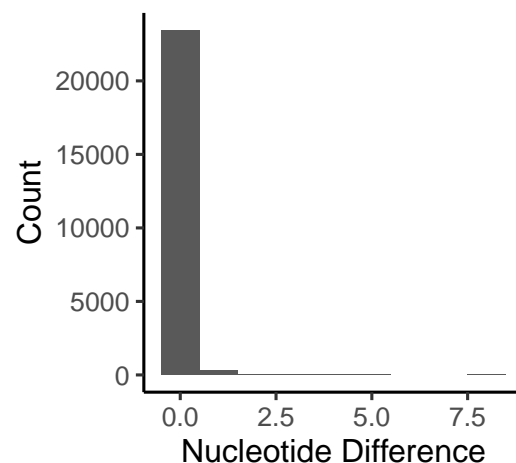
### TRBV19\*ap01

16852 sequences assigned  
16686 (99%) exact matches, in which:  
16486 unique CDR3  
13 unique J



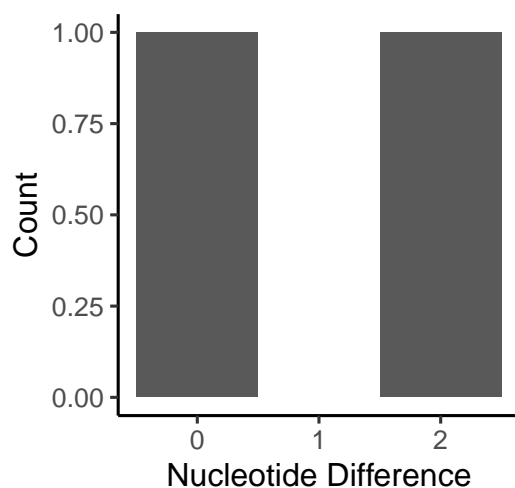
### TRBV27\*ap01

23775 sequences assigned  
23451 (98.6%) exact matches, in which:  
22820 unique CDR3  
13 unique J



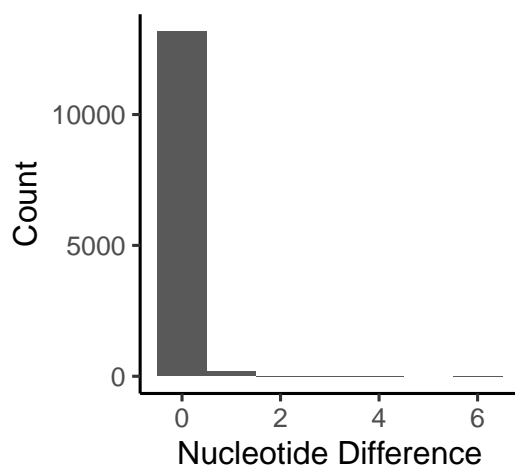
### TRBV17\*ap01

2 sequences assigned  
1 (50%) exact matches, in which:  
1 unique CDR3  
1 unique J



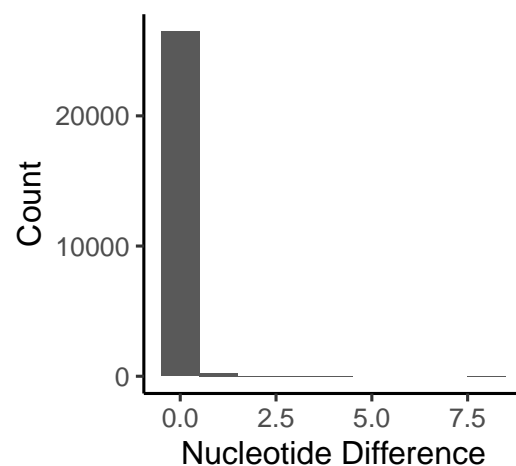
### TRBV2\*ap01

13359 sequences assigned  
13174 (98.6%) exact matches, in which:  
12827 unique CDR3  
13 unique J



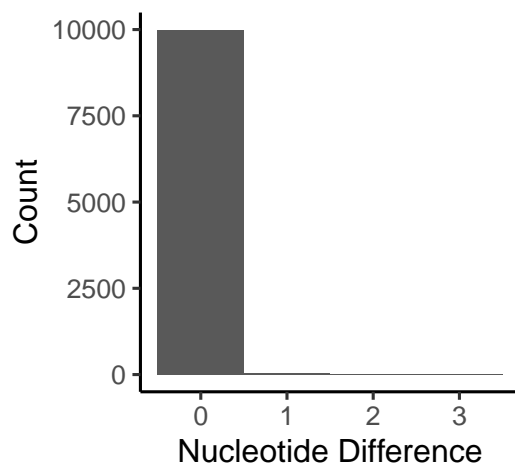
### TRBV28\*ap01

26743 sequences assigned  
26480 (99%) exact matches, in which:  
25969 unique CDR3  
13 unique J



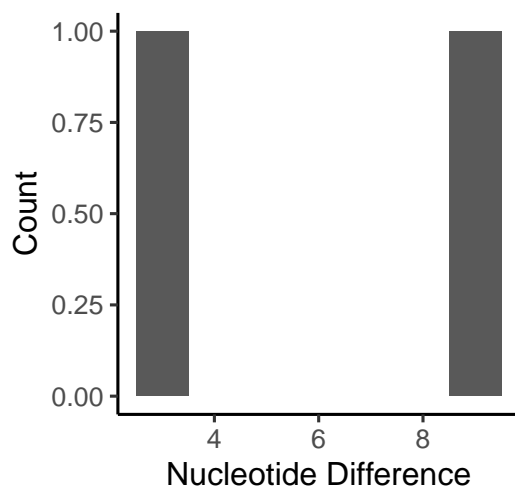
### TRBV18\*ap01

10053 sequences assigned  
9993 (99.4%) exact matches, in which:  
9882 unique CDR3  
13 unique J



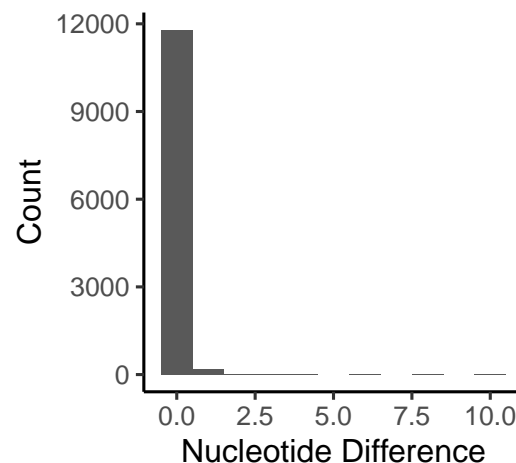
### TRBV26\*ap01

2 sequences assigned  
No exact matches.



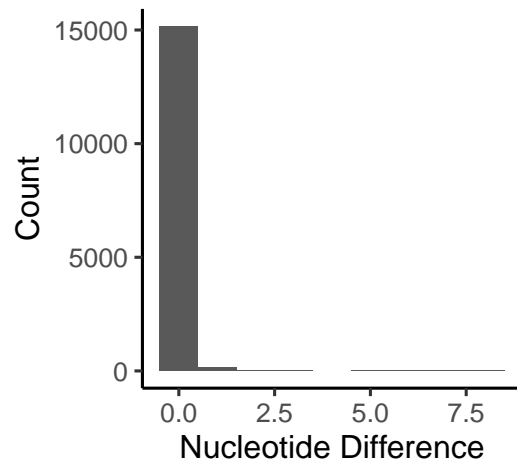
### TRBV30\*ap01

11984 sequences assigned  
11796 (98.4%) exact matches, in which:  
11562 unique CDR3  
13 unique J



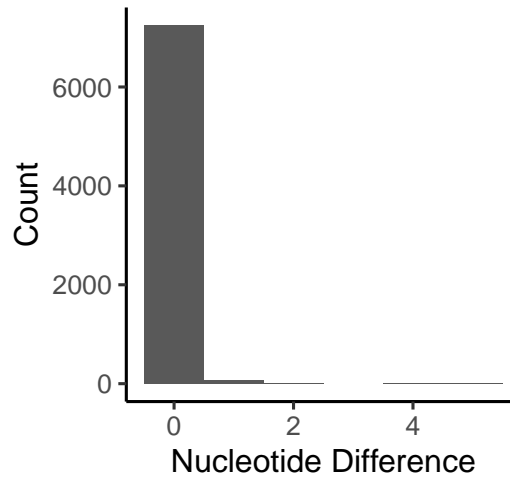
### TRBV9\*ap01

15354 sequences assigned  
15169 (98.8%) exact matches, in which:  
14876 unique CDR3  
13 unique J



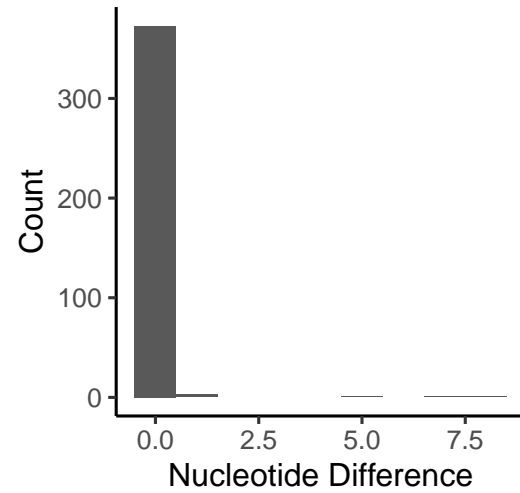
### TRBV11-2\*ap01

7330 sequences assigned  
7245 (98.8%) exact matches, in which:  
7064 unique CDR3  
13 unique J



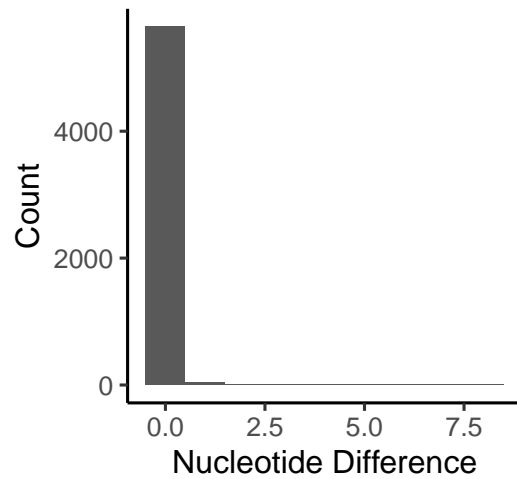
### TRBV12-2\*ap01

379 sequences assigned  
373 (98.4%) exact matches, in which:  
367 unique CDR3  
13 unique J



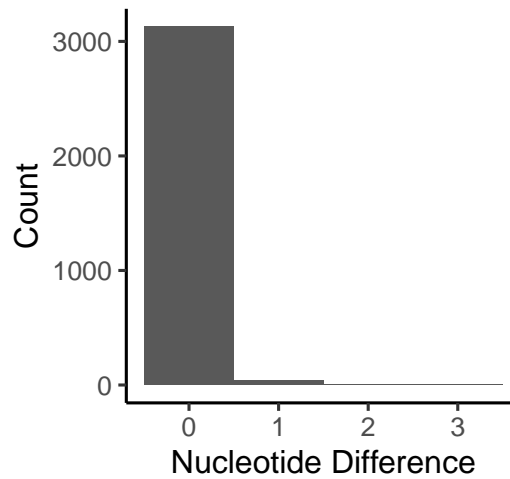
### TRBV21-1\*ap01

5717 sequences assigned  
5647 (98.8%) exact matches, in which:  
5555 unique CDR3  
13 unique J



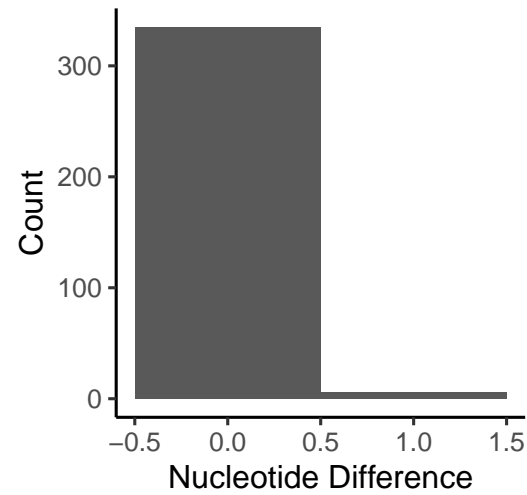
### TRBV11-3\*ap01

3173 sequences assigned  
3128 (98.6%) exact matches, in which:  
3071 unique CDR3  
13 unique J



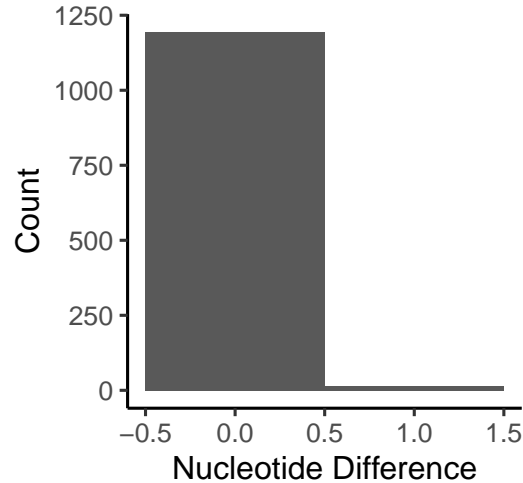
### TRBV12-2\*ap01\_G301A

341 sequences assigned  
335 (98.2%) exact matches, in which:  
327 unique CDR3  
13 unique J



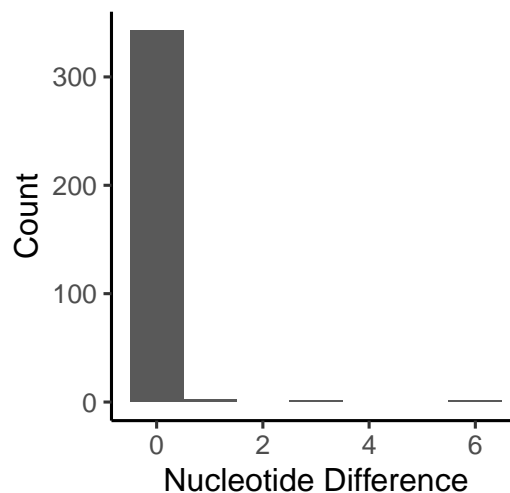
### TRBV11-1\*ap01

1208 sequences assigned  
1194 (98.8%) exact matches, in which:  
1159 unique CDR3  
13 unique J



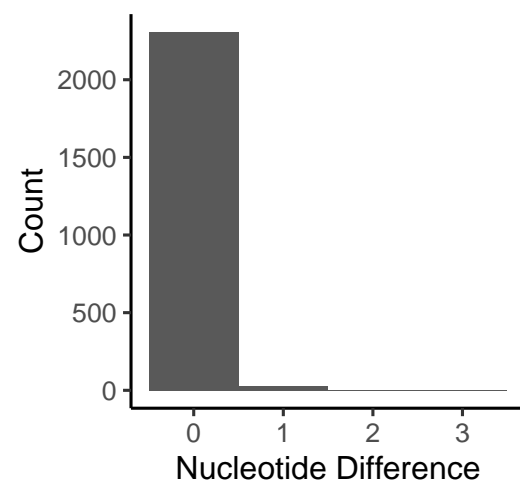
### TRBV12-1\*ap01

347 sequences assigned  
343 (98.8%) exact matches, in which:  
336 unique CDR3  
13 unique J



### TRBV12-5\*ap01

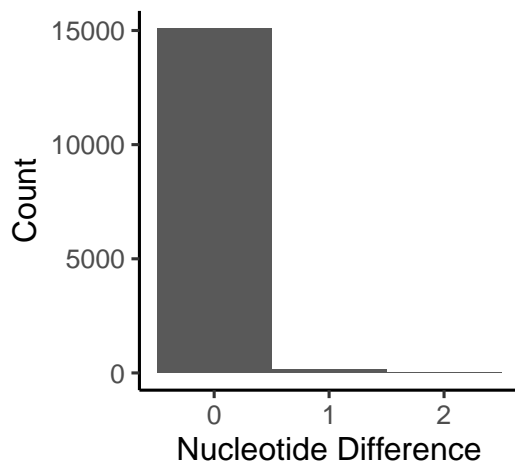
2340 sequences assigned  
2307 (98.6%) exact matches, in which:  
2255 unique CDR3  
13 unique J





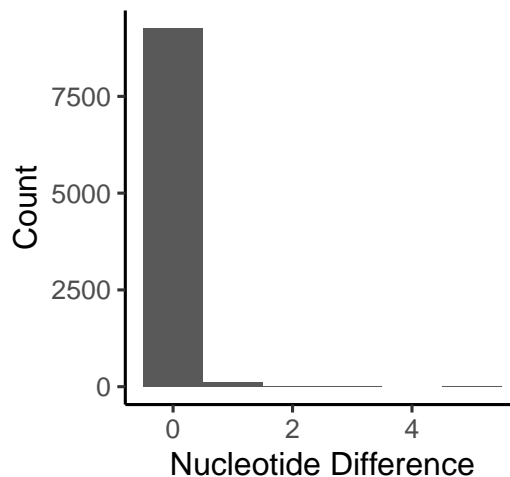
### TRBV12-34\*ap01

15273 sequences assigned  
15103 (98.9%) exact matches, in which:  
14768 unique CDR3  
13 unique J



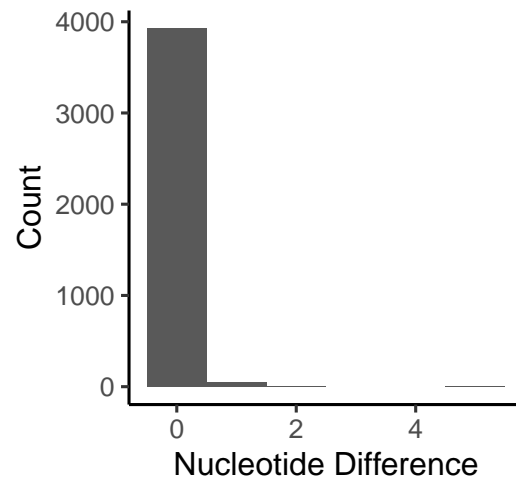
### TRBV4-1\*ap01

9373 sequences assigned  
9256 (98.8%) exact matches, in which:  
8974 unique CDR3  
13 unique J



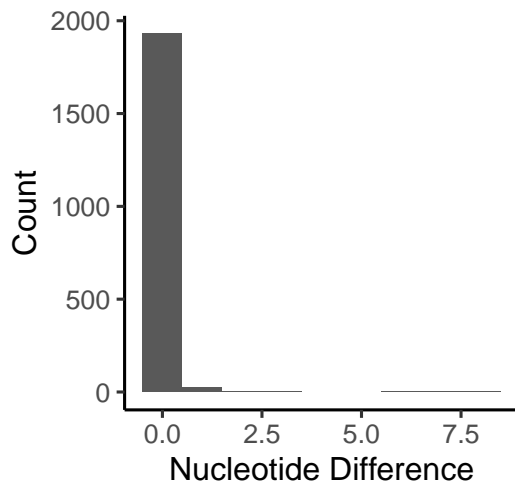
### TRBV25-1\*ap01

3978 sequences assigned  
3927 (98.7%) exact matches, in which:  
3835 unique CDR3  
13 unique J



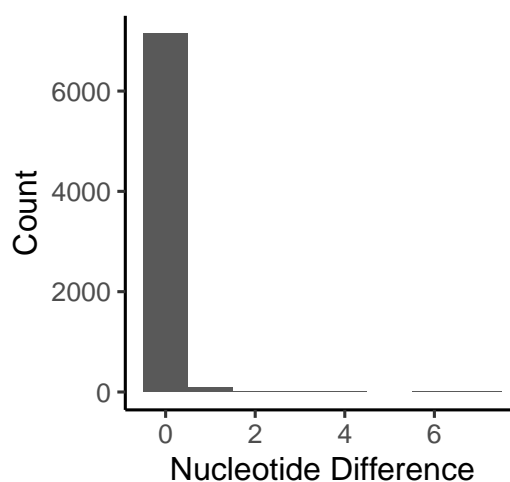
### TRBV23-1\*ap01

1963 sequences assigned  
1930 (98.3%) exact matches, in which:  
1880 unique CDR3  
13 unique J



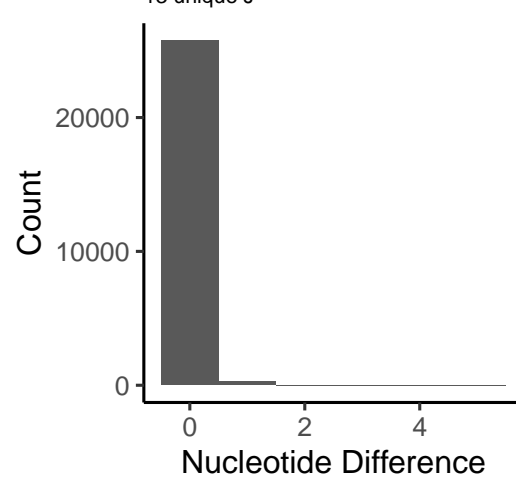
### TRBV24-1\*ap01

7241 sequences assigned  
7143 (98.6%) exact matches, in which:  
6995 unique CDR3  
13 unique J



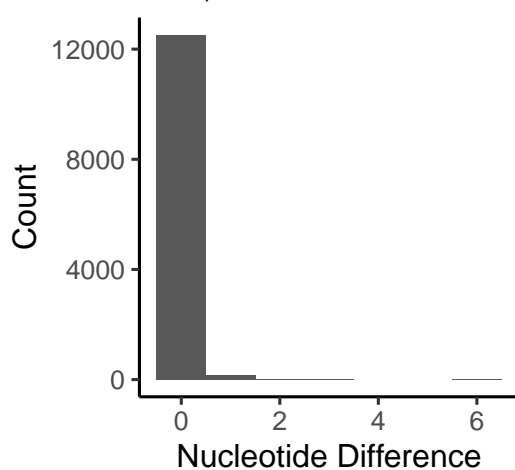
### TRBV5-1\*ap01

26060 sequences assigned  
25757 (98.8%) exact matches, in which:  
25040 unique CDR3  
13 unique J



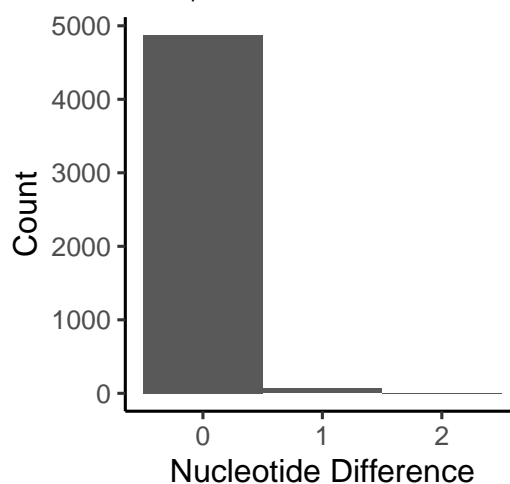
### TRBV3-12\*ap01

12682 sequences assigned  
12521 (98.7%) exact matches, in which:  
12207 unique CDR3  
13 unique J



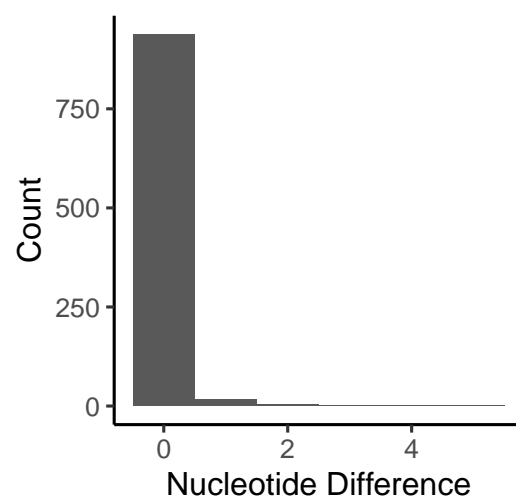
### TRBV4-2\*ap01

4943 sequences assigned  
4874 (98.6%) exact matches, in which:  
4722 unique CDR3  
13 unique J



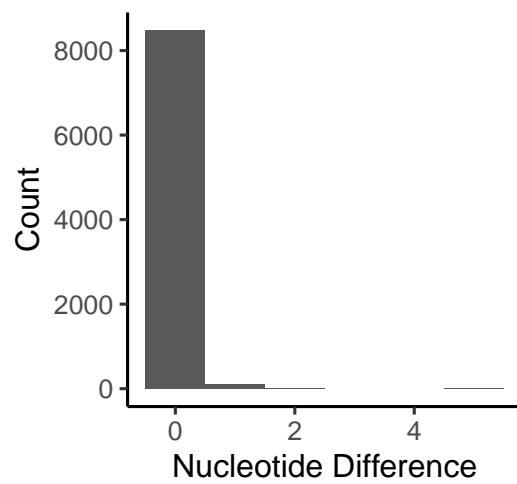
### TRBV5-3\*ap01

960 sequences assigned  
938 (97.7%) exact matches, in which:  
924 unique CDR3  
13 unique J



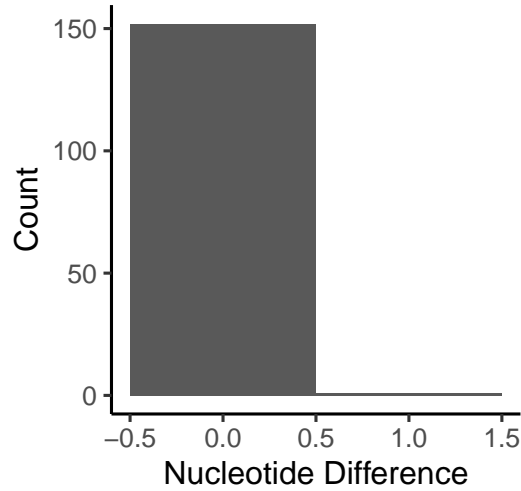
### TRBV5-4\*ap01

8579 sequences assigned  
8476 (98.8%) exact matches, in which:  
8224 unique CDR3  
13 unique J



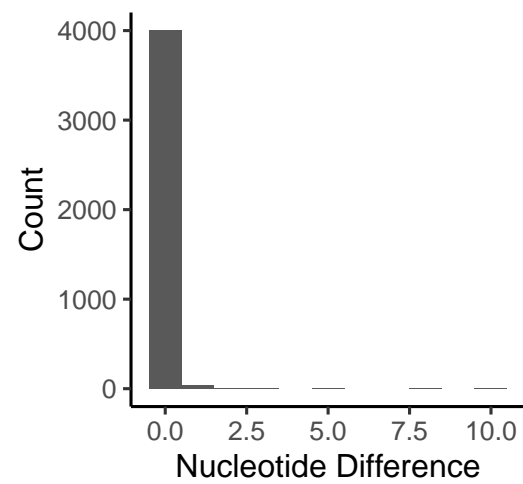
### TRBV5-7\*ap01

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



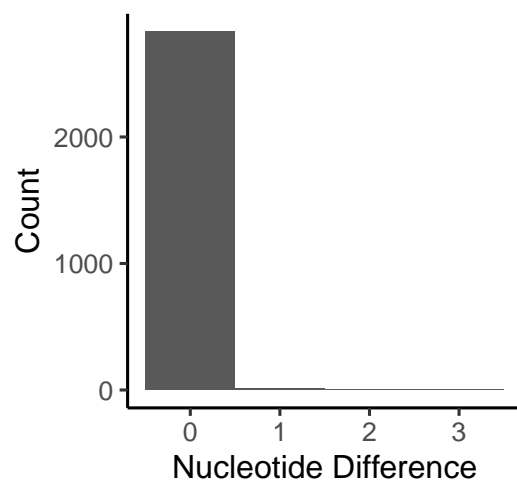
### TRBV6-4\*ap01

4050 sequences assigned  
4002 (98.8%) exact matches, in which:  
3923 unique CDR3  
13 unique J



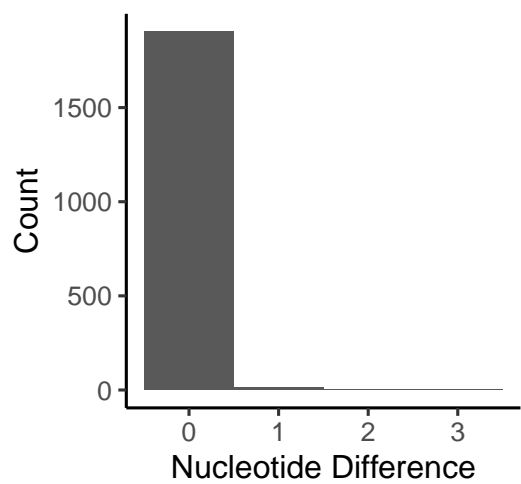
### TRBV5-5\*ap01

2848 sequences assigned  
2832 (99.4%) exact matches, in which:  
2809 unique CDR3  
13 unique J



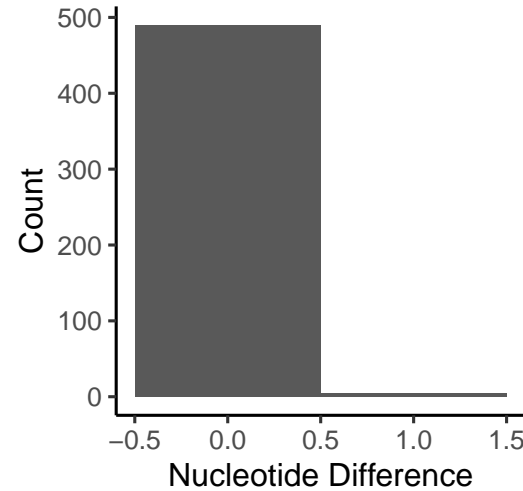
### TRBV5-8\*ap01

1917 sequences assigned  
1903 (99.3%) exact matches, in which:  
1869 unique CDR3  
13 unique J



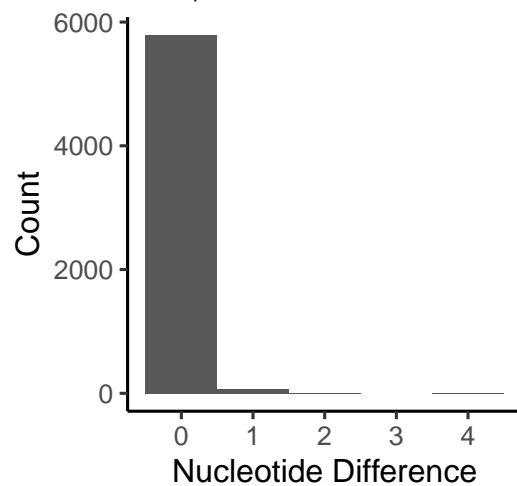
### TRBV6-7\*ap01

494 sequences assigned  
490 (99.2%) exact matches, in which:  
470 unique CDR3  
13 unique J



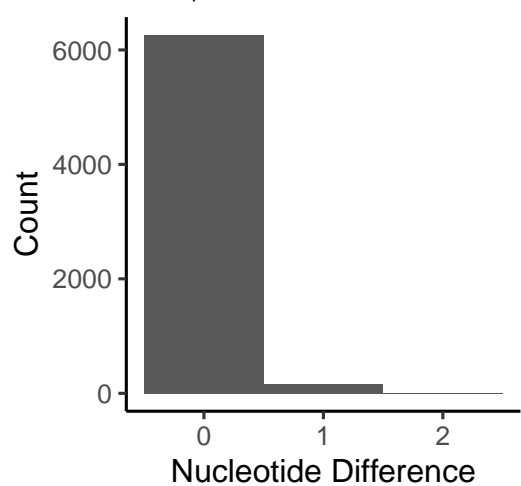
### TRBV5-6\*ap01

5864 sequences assigned  
5790 (98.7%) exact matches, in which:  
5623 unique CDR3  
13 unique J



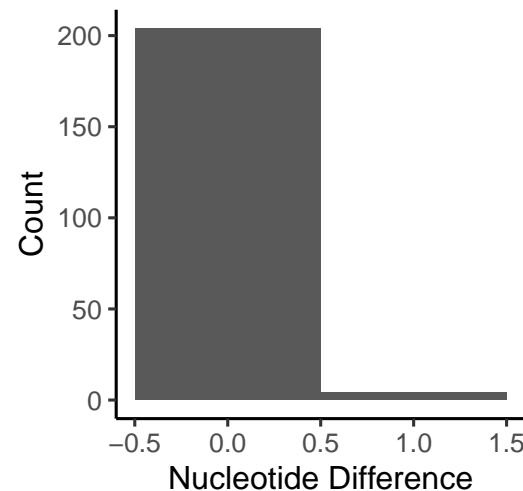
### TRBV6-1\*ap01

6426 sequences assigned  
6260 (97.4%) exact matches, in which:  
6082 unique CDR3  
13 unique J



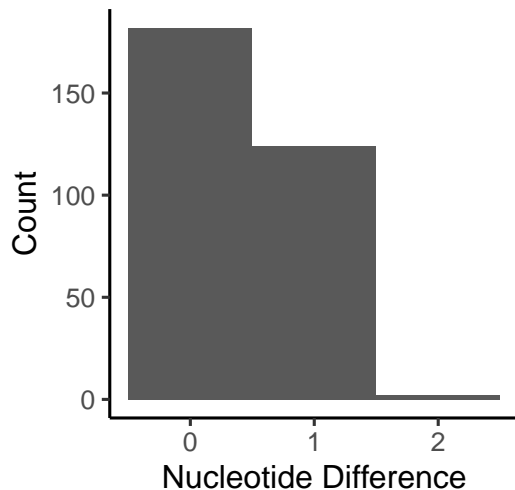
### TRBV6-8\*ap01

208 sequences assigned  
204 (98.1%) exact matches, in which:  
194 unique CDR3  
13 unique J



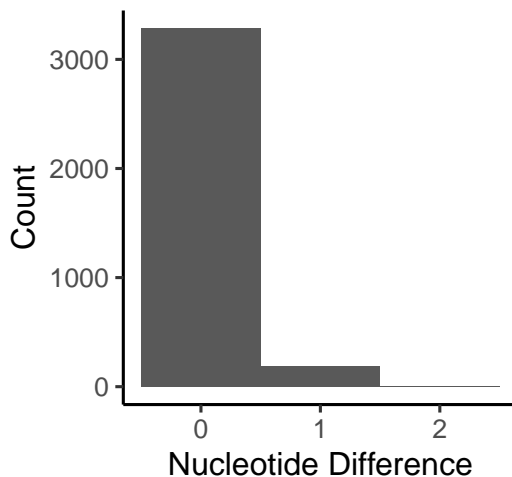
### TRBV6-9\*ap01

308 sequences assigned  
182 (59.1%) exact matches, in which:  
177 unique CDR3  
13 unique J



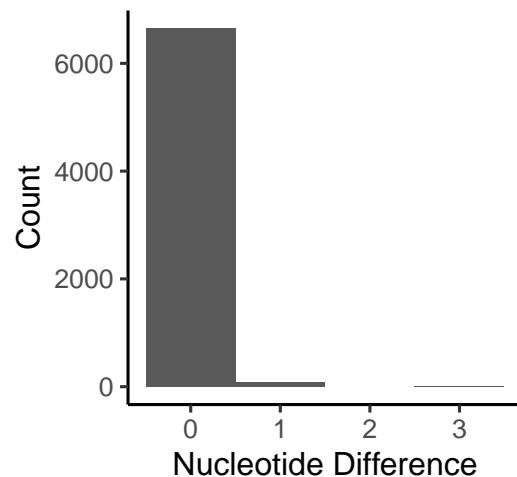
### TRBV6-56\*ap02

3481 sequences assigned  
3284 (94.3%) exact matches, in which:  
3184 unique CDR3  
13 unique J



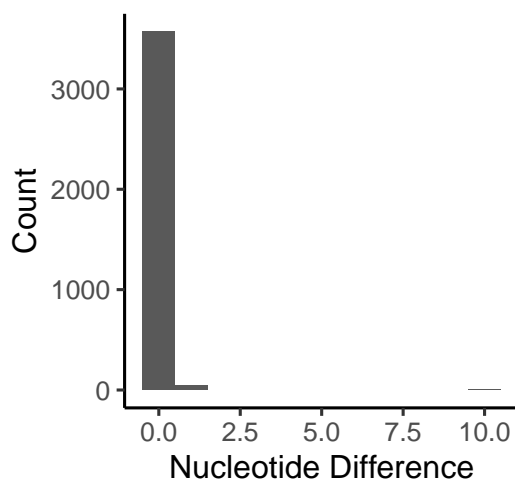
### TRBV7-2\*ap01

6726 sequences assigned  
6648 (98.8%) exact matches, in which:  
6530 unique CDR3  
13 unique J



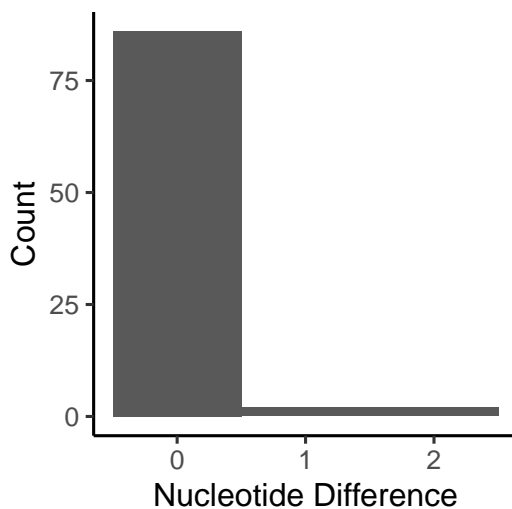
### TRBV6-23\*ap01

3620 sequences assigned  
3570 (98.6%) exact matches, in which:  
3451 unique CDR3  
13 unique J



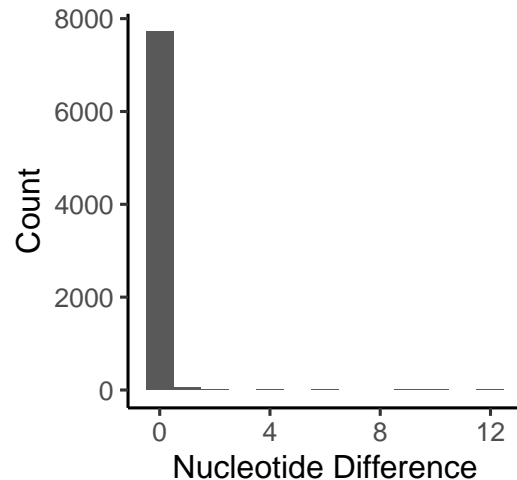
### TRBV7-1\*ap01\_G291C\_T

90 sequences assigned  
86 (95.6%) exact matches, in which:  
85 unique CDR3  
12 unique J



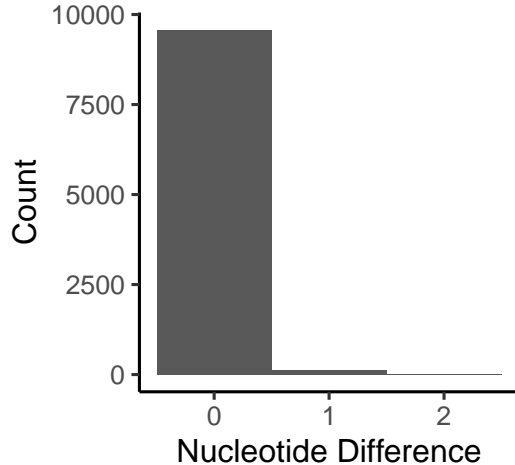
### TRBV7-3\*ap01

7792 sequences assigned  
7718 (99.1%) exact matches, in which:  
7572 unique CDR3  
13 unique J



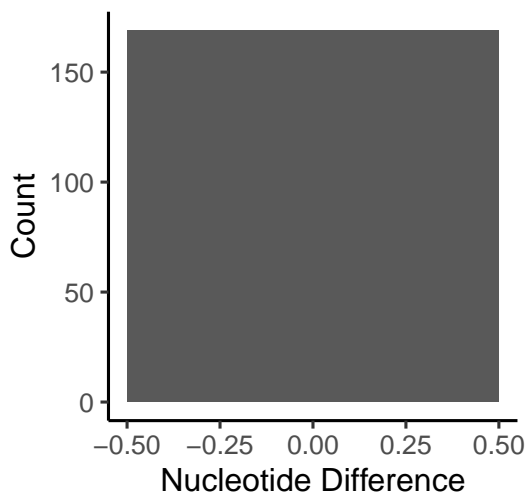
### TRBV6-56\*ap01

9705 sequences assigned  
9576 (98.7%) exact matches, in which:  
9275 unique CDR3  
13 unique J



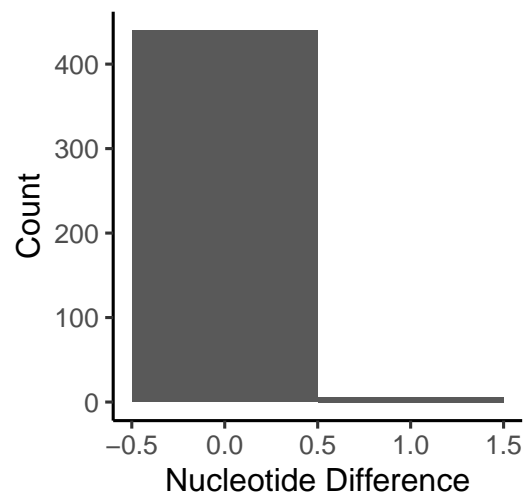
### TRBV7-1\*ap01\_G291C\_

169 sequences assigned  
169 (100%) exact matches, in which:  
164 unique CDR3  
13 unique J



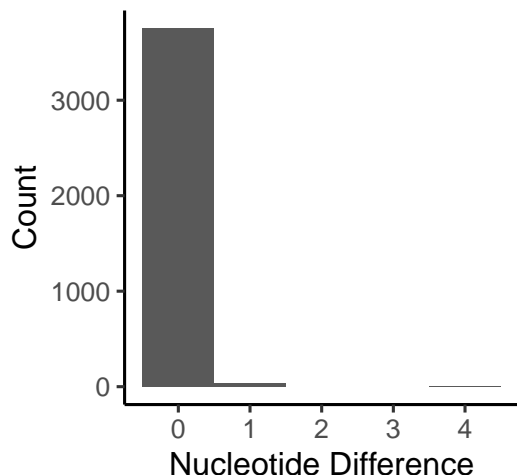
### TRBV7-4\*ap01

446 sequences assigned  
440 (98.7%) exact matches, in which:  
429 unique CDR3  
13 unique J



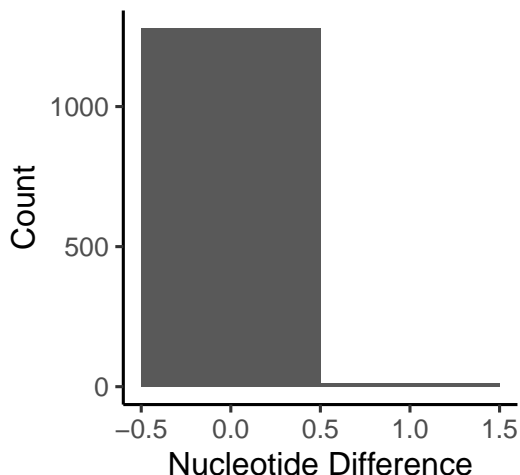
### TRBV7-6\*ap01

3789 sequences assigned  
3752 (99%) exact matches, in which:  
3664 unique CDR3  
13 unique J



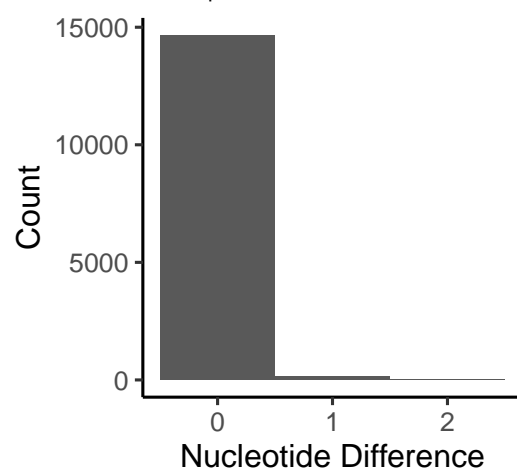
### TRBV7-8\*ap01

1293 sequences assigned  
1279 (98.9%) exact matches, in which:  
1246 unique CDR3  
13 unique J



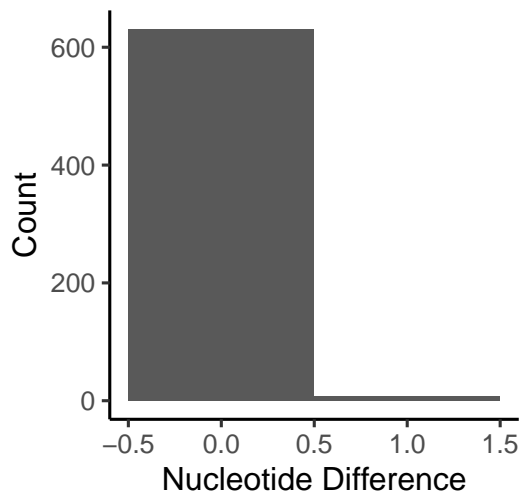
### TRBV7-9\*ap01

14801 sequences assigned  
14663 (99.1%) exact matches, in which:  
14390 unique CDR3  
13 unique J



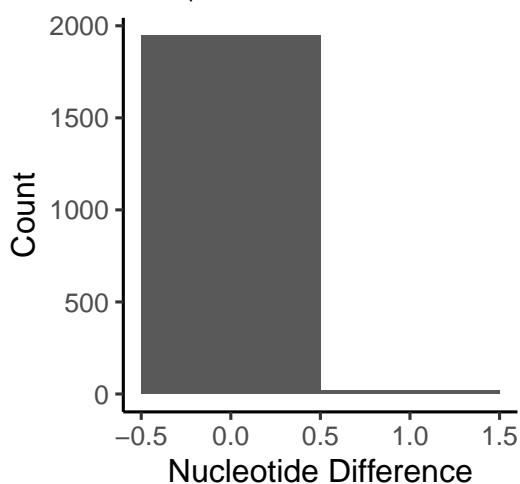
### TRBV7-7\*ap01

639 sequences assigned  
631 (98.7%) exact matches, in which:  
616 unique CDR3  
13 unique J



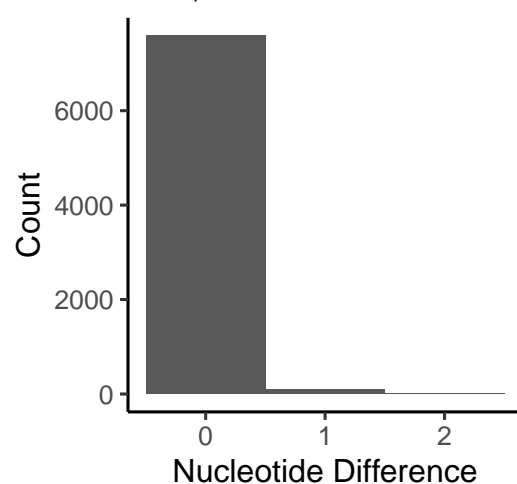
### TRBV7-8\*ap02

1966 sequences assigned  
1946 (99%) exact matches, in which:  
1906 unique CDR3  
13 unique J



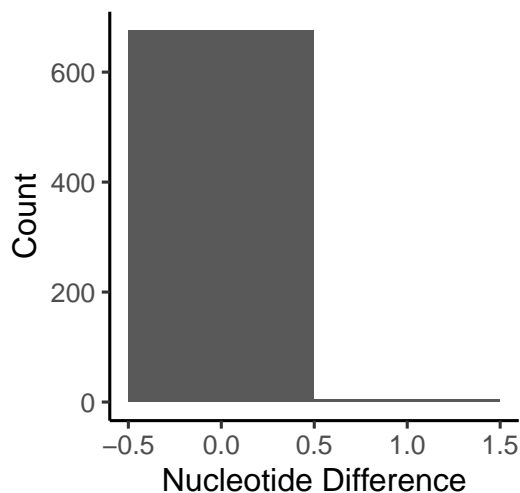
### TRBV29-1\*ap01

7678 sequences assigned  
7587 (98.8%) exact matches, in which:  
7381 unique CDR3  
13 unique J



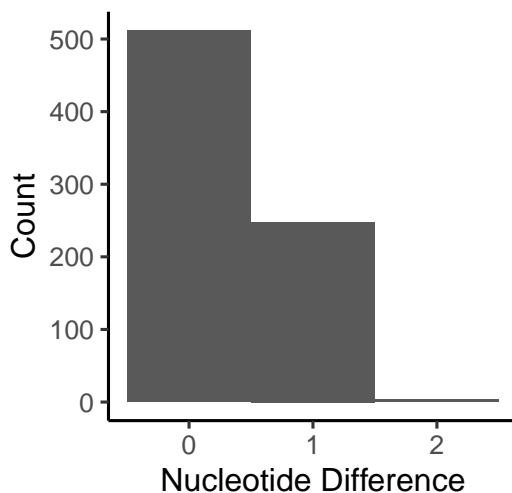
### TRBV7-7\*ap01\_C315T

681 sequences assigned  
676 (99.3%) exact matches, in which:  
660 unique CDR3  
13 unique J



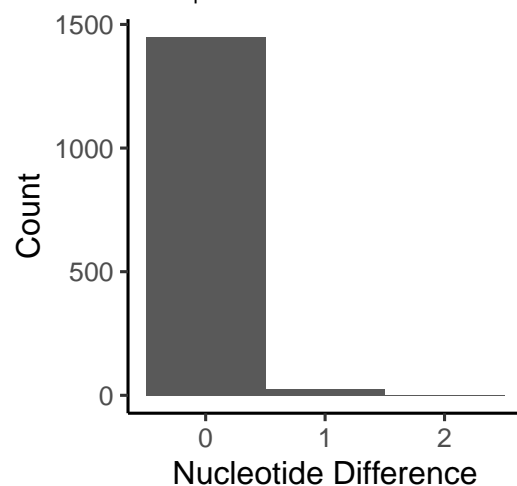
### TRBV7-8\*ap03

764 sequences assigned  
512 (67%) exact matches, in which:  
498 unique CDR3  
13 unique J

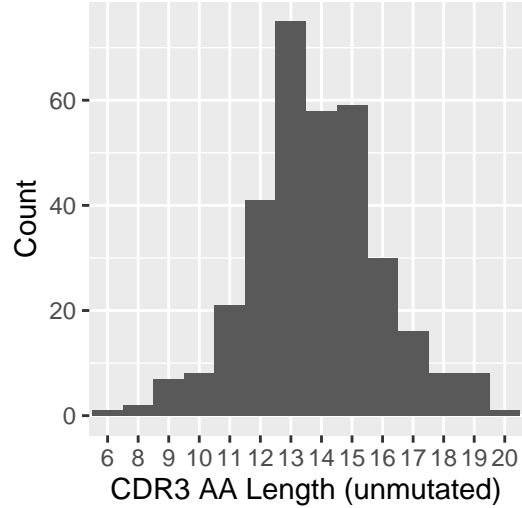


### TRBV29-1\*ap02

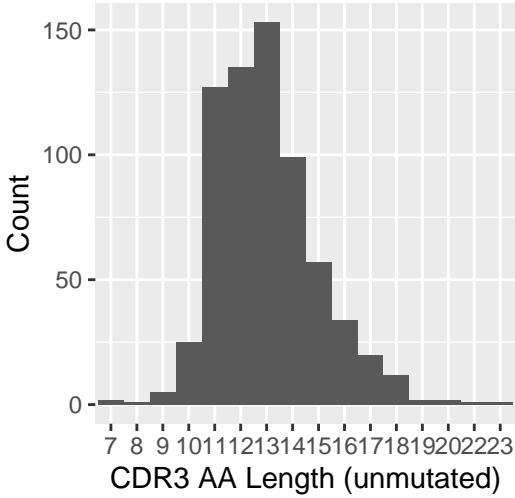
1475 sequences assigned  
1449 (98.2%) exact matches, in which:  
1421 unique CDR3  
13 unique J



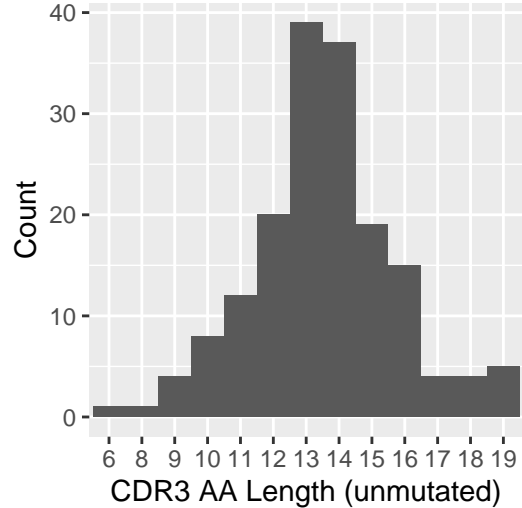
TRBV12-2\*ap01\_G301A



TRBV7-7\*ap01\_C315T



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



TRBV7-1\*ap01\_G291C\_T296C

