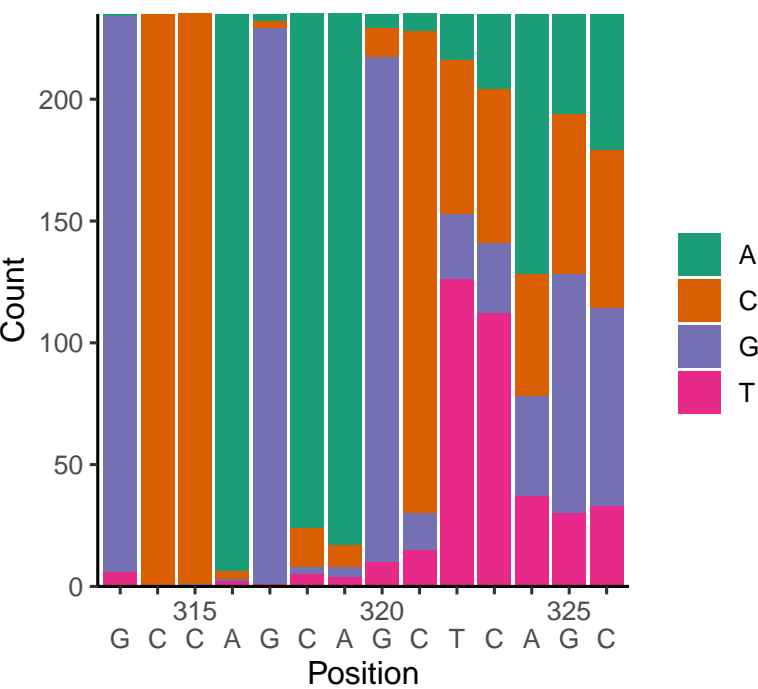
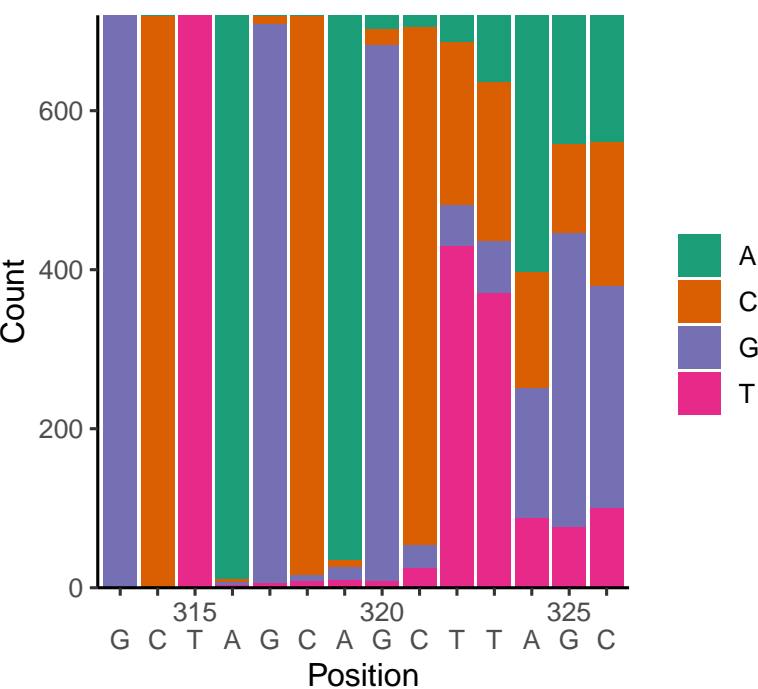


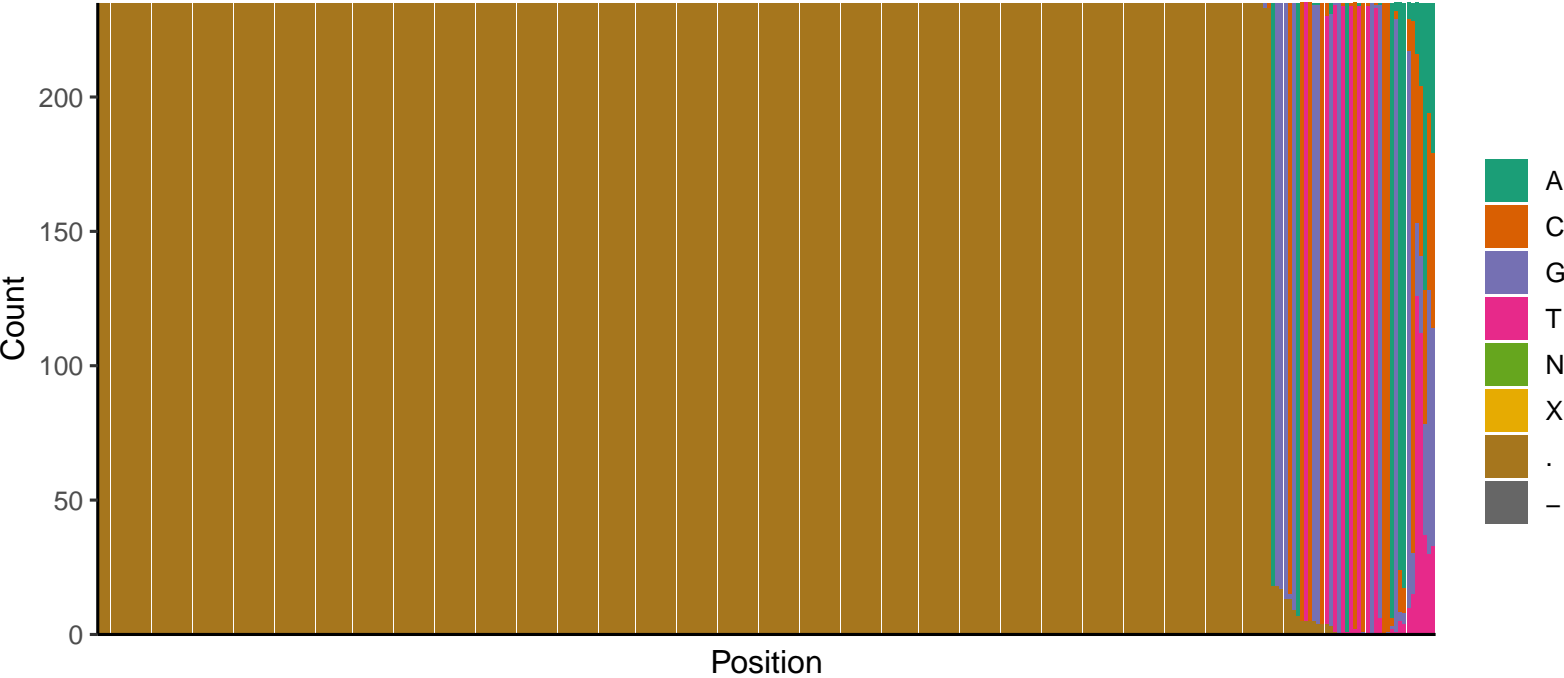
Gene TRBV7-1\*ap01\_G291C\_T296C



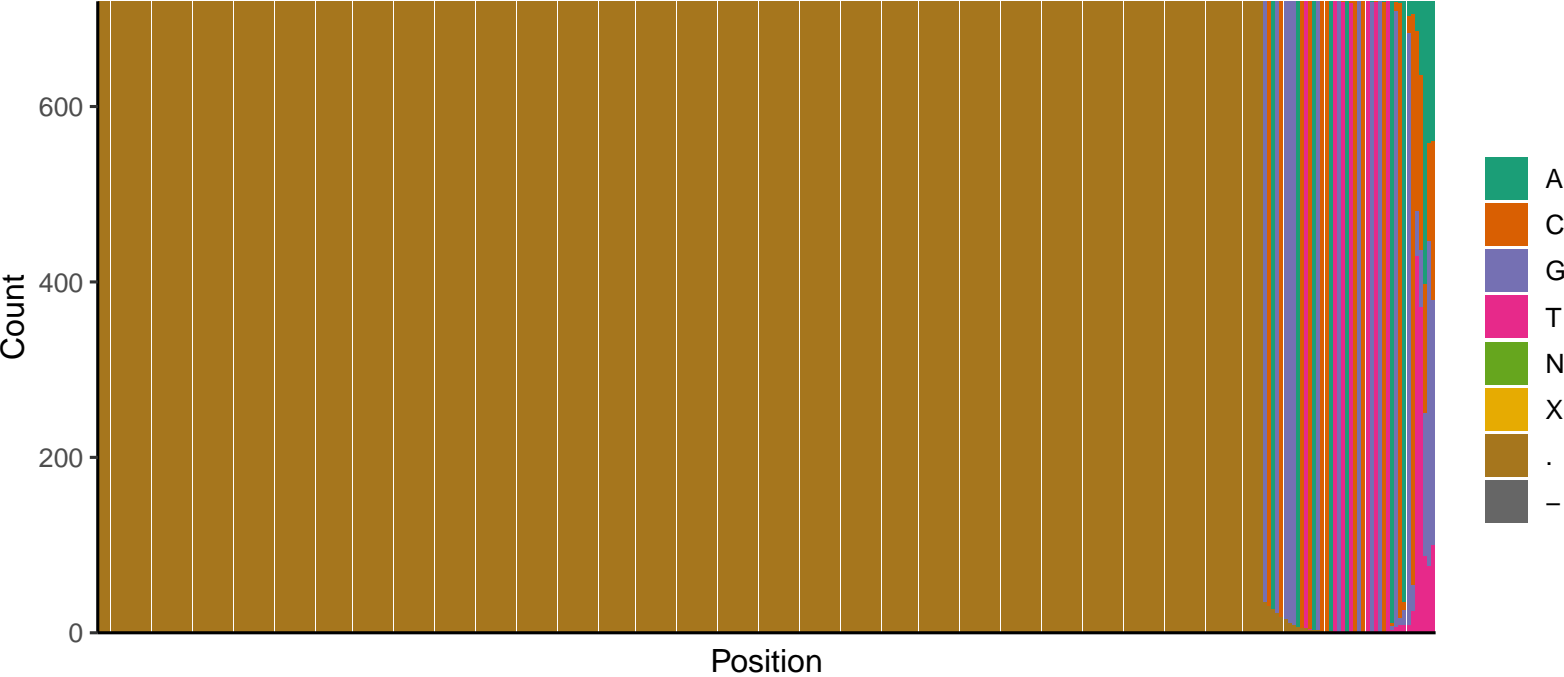
Gene TRBV7-7\*ap01\_C315T



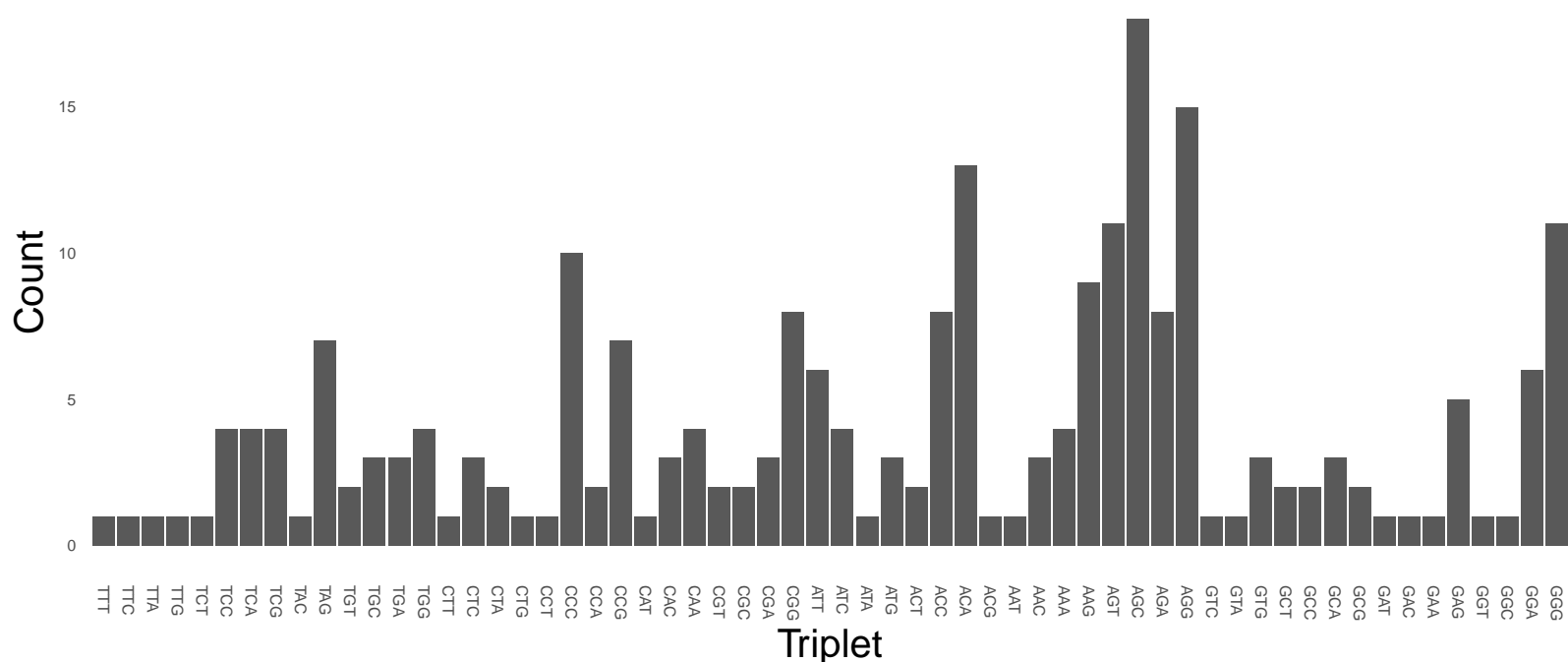
Gene TRBV7-1\*ap01\_G291C\_T296C



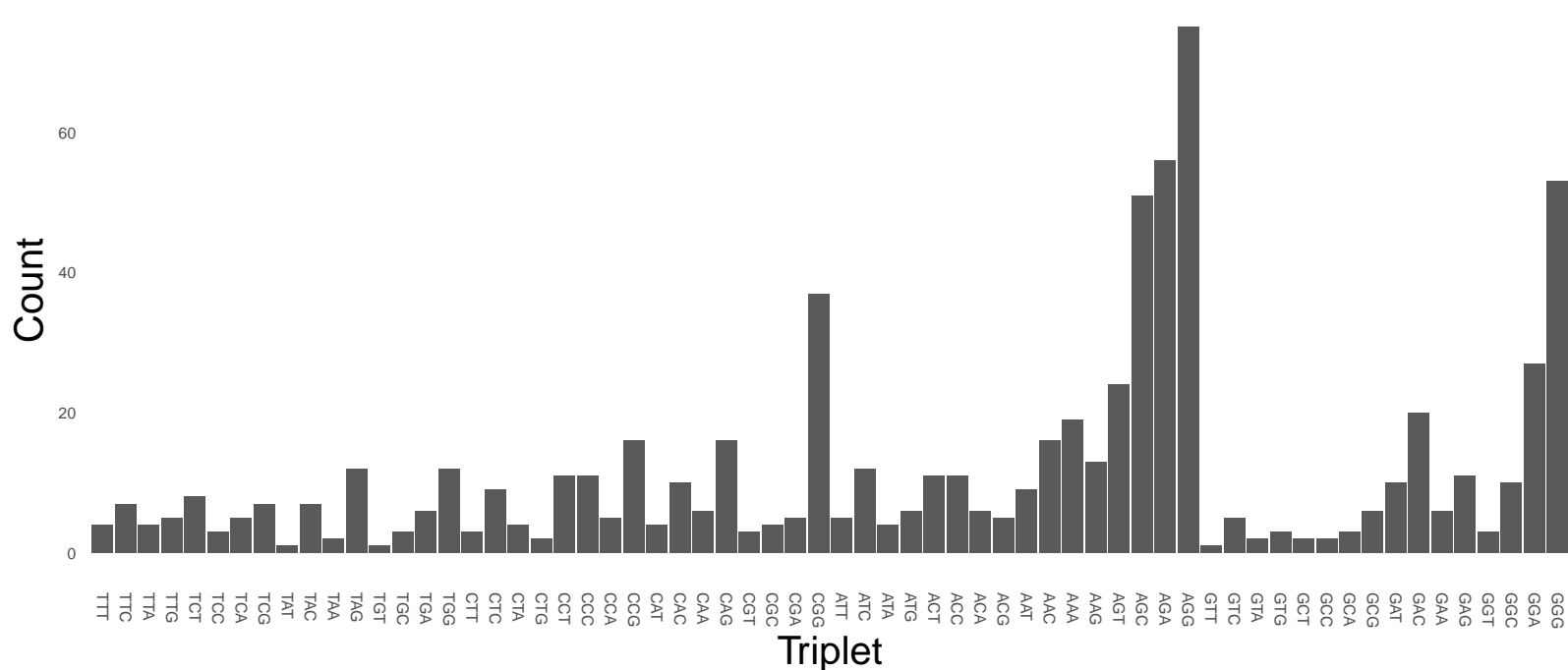
Gene TRBV7-7\*ap01\_C315T



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

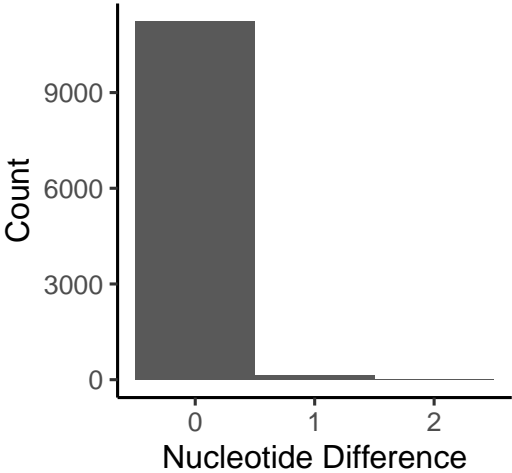


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



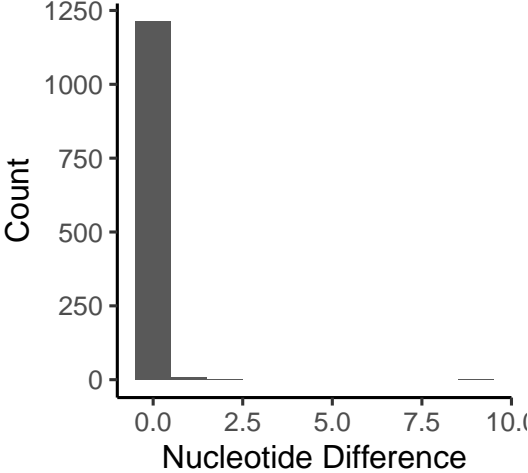
TRBV20-1\*ap01

11377 sequences assigned  
11231 (98.7%) exact matches, in which:  
11035 unique CDR3  
13 unique J



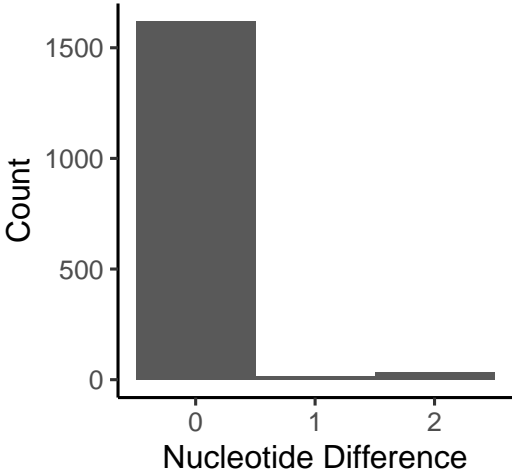
TRBV10-2\*ap01

1224 sequences assigned  
1213 (99.1%) exact matches, in which:  
1187 unique CDR3  
13 unique J



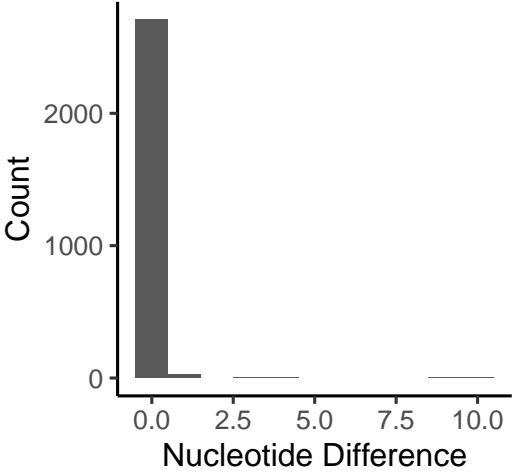
TRBV13\*ap01

1667 sequences assigned  
1619 (97.1%) exact matches, in which:  
1586 unique CDR3  
13 unique J



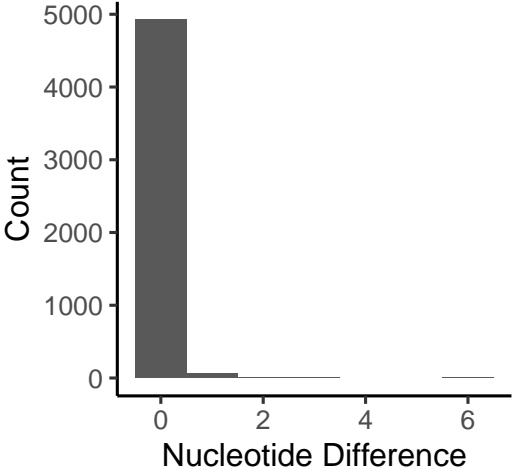
TRBV10-1\*ap01

2741 sequences assigned  
2707 (98.8%) exact matches, in which:  
2645 unique CDR3  
13 unique J



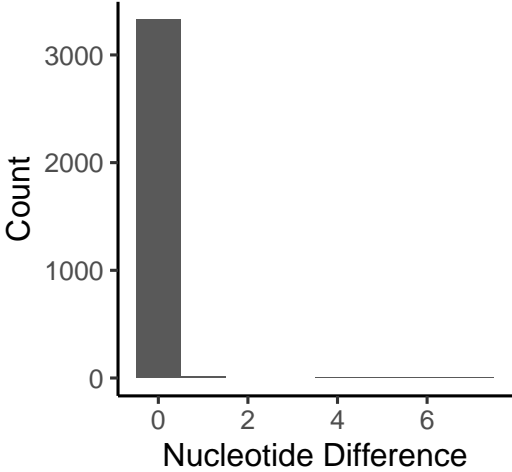
TRBV10-3\*ap01

4991 sequences assigned  
4925 (98.7%) exact matches, in which:  
4810 unique CDR3  
13 unique J



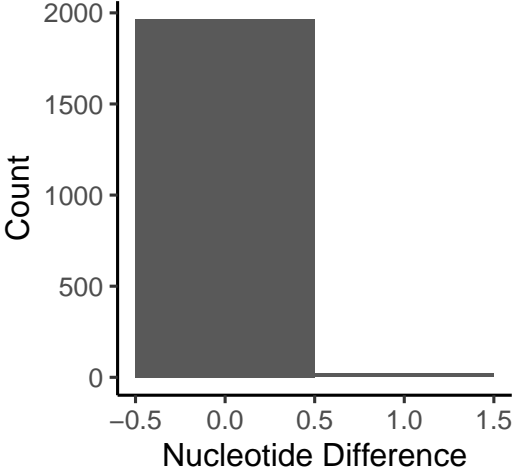
TRBV14\*ap01

3350 sequences assigned  
3327 (99.3%) exact matches, in which:  
3280 unique CDR3  
13 unique J



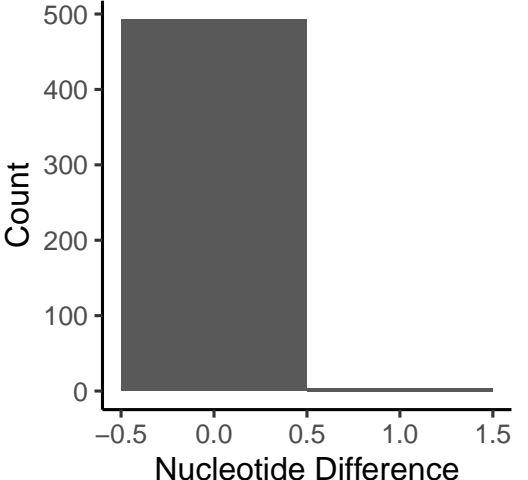
TRBV20-1\*ap02

1986 sequences assigned  
1966 (99%) exact matches, in which:  
1929 unique CDR3  
13 unique J



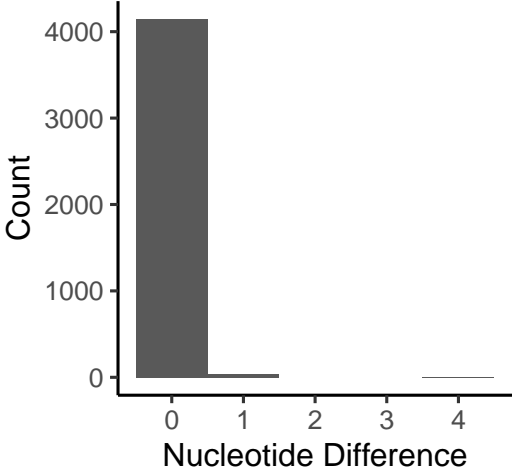
TRBV1\*ap01

497 sequences assigned  
493 (99.2%) exact matches, in which:  
478 unique CDR3  
13 unique J



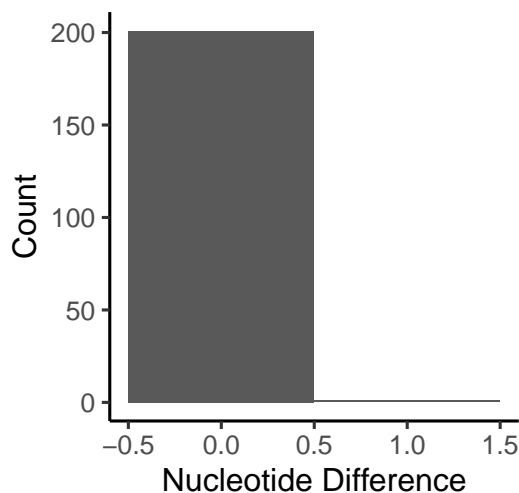
TRBV15\*ap02

4188 sequences assigned  
4146 (99%) exact matches, in which:  
4059 unique CDR3  
13 unique J



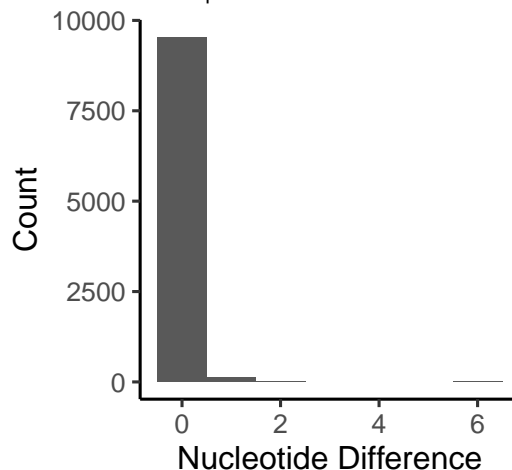
### TRBV16\*ap01

202 sequences assigned  
201 (99.5%) exact matches, in which:  
197 unique CDR3  
13 unique J



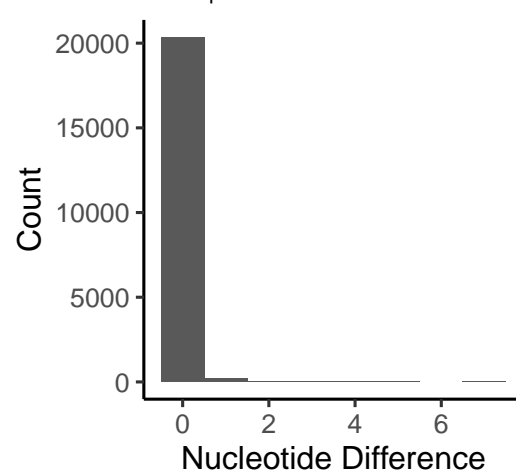
### TRBV2\*ap01

9680 sequences assigned  
9537 (98.5%) exact matches, in which:  
9363 unique CDR3  
13 unique J



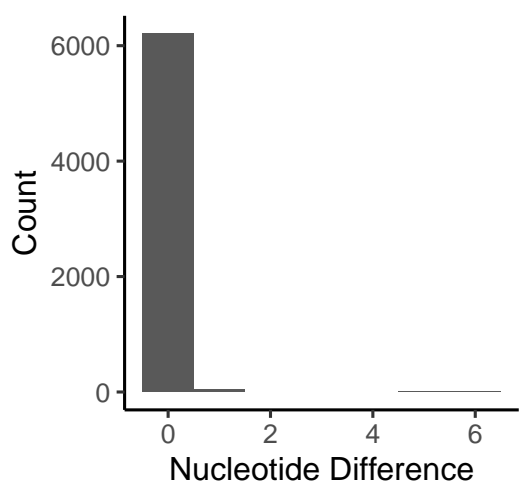
### TRBV28\*ap01

20571 sequences assigned  
20354 (98.9%) exact matches, in which:  
20044 unique CDR3  
13 unique J



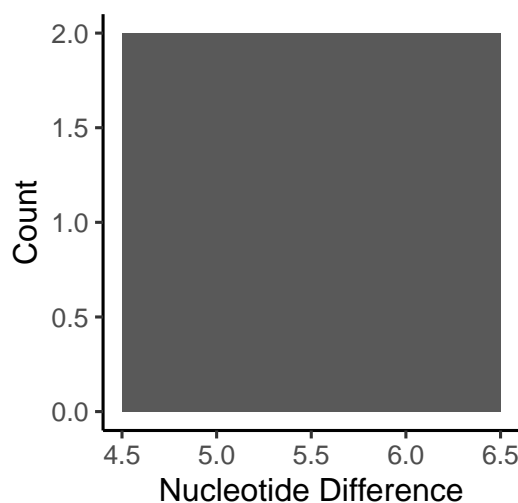
### TRBV18\*ap01

6251 sequences assigned  
6207 (99.3%) exact matches, in which:  
6135 unique CDR3  
13 unique J



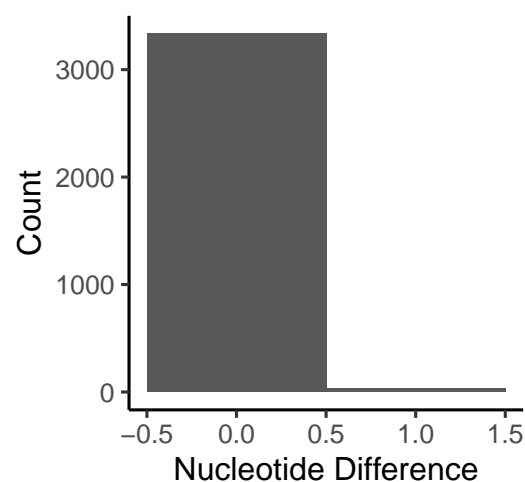
### TRBV26\*ap01

4 sequences assigned  
No exact matches.



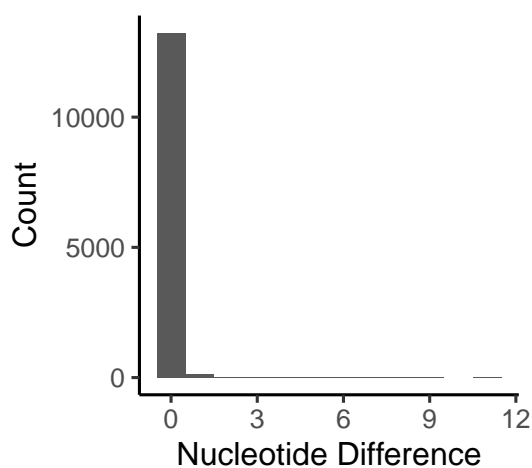
### TRBV30\*ap01

3369 sequences assigned  
3334 (99%) exact matches, in which:  
3292 unique CDR3  
13 unique J



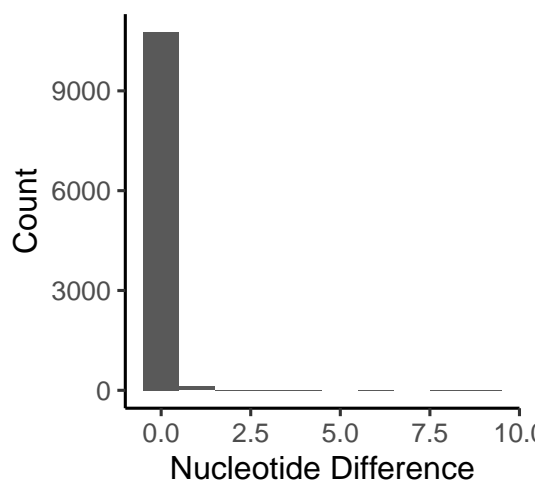
### TRBV19\*ap01

13399 sequences assigned  
13239 (98.8%) exact matches, in which:  
13093 unique CDR3  
13 unique J



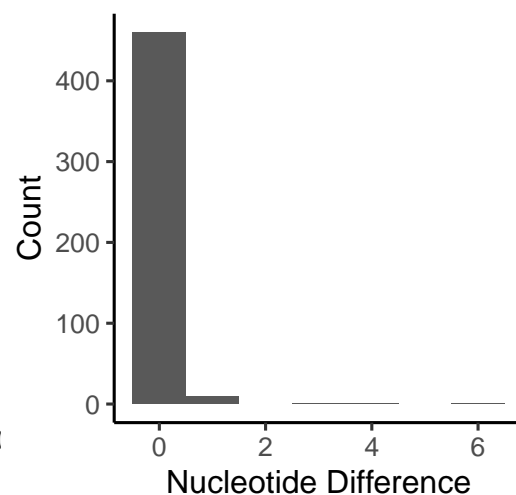
### TRBV27\*ap01

10897 sequences assigned  
10767 (98.8%) exact matches, in which:  
10509 unique CDR3  
13 unique J



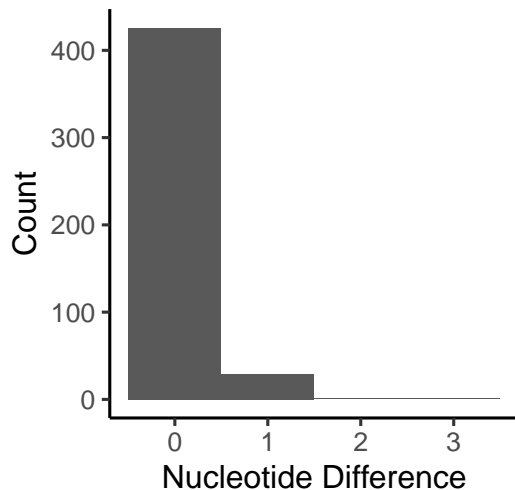
### TRBV30\*ap02

472 sequences assigned  
460 (97.5%) exact matches, in which:  
451 unique CDR3  
13 unique J



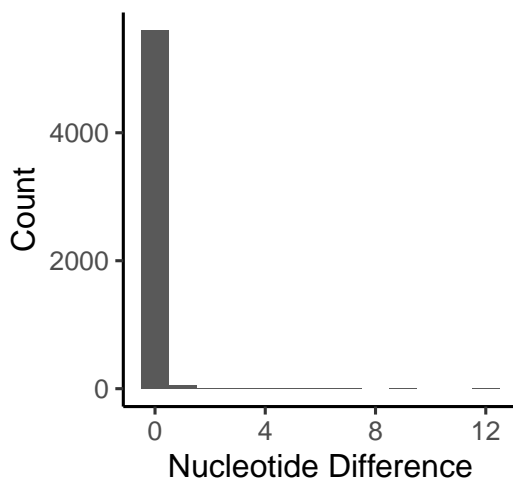
### TRBV30\*ap03

457 sequences assigned  
426 (93.2%) exact matches, in which:  
423 unique CDR3  
13 unique J



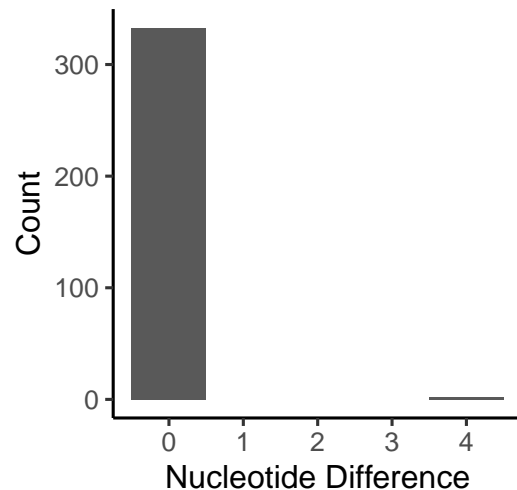
### TRBV21-1\*ap01

5690 sequences assigned  
5600 (98.4%) exact matches, in which:  
5516 unique CDR3  
13 unique J



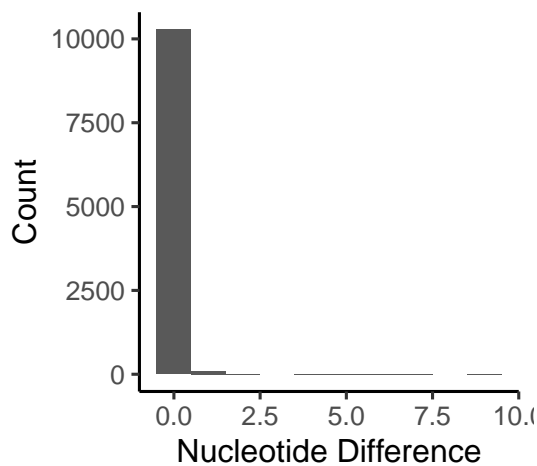
### TRBV12-1\*ap01

335 sequences assigned  
333 (99.4%) exact matches, in which:  
326 unique CDR3  
13 unique J



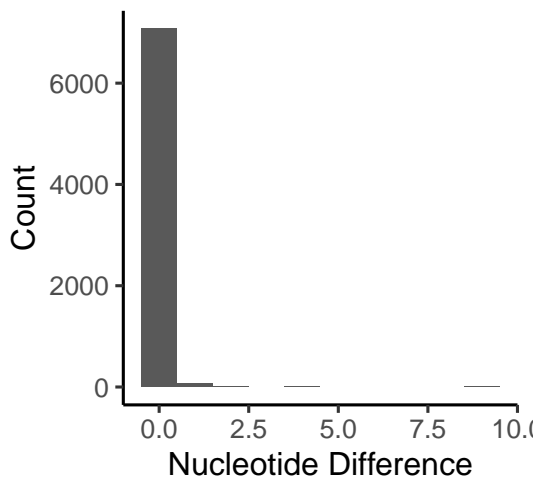
### TRBV9\*ap01

10381 sequences assigned  
10281 (99%) exact matches, in which:  
10119 unique CDR3  
13 unique J



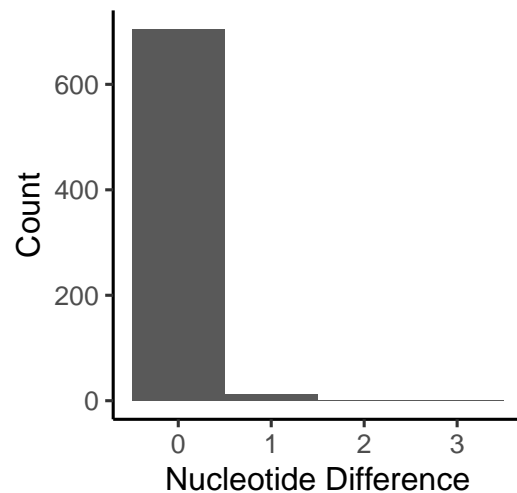
### TRBV11-2\*ap01

7155 sequences assigned  
7075 (98.9%) exact matches, in which:  
6942 unique CDR3  
13 unique J



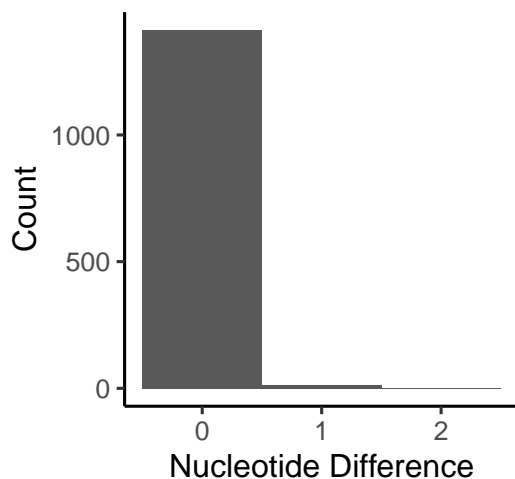
### TRBV12-2\*ap01

719 sequences assigned  
705 (98.1%) exact matches, in which:  
697 unique CDR3  
13 unique J



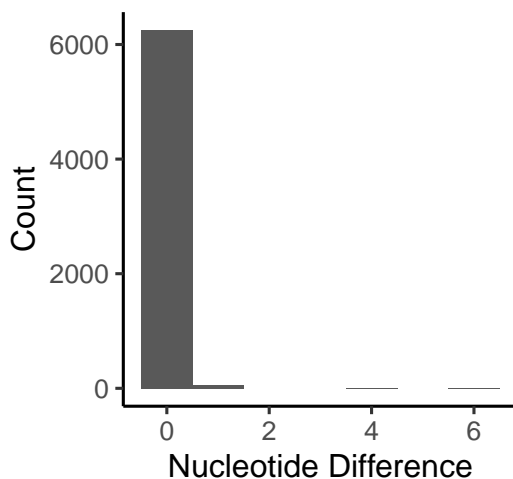
### TRBV11-1\*ap01

1430 sequences assigned  
1414 (98.9%) exact matches, in which:  
1378 unique CDR3  
13 unique J



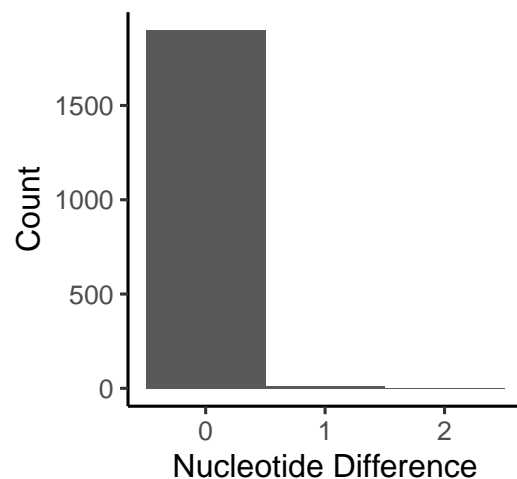
### TRBV11-3\*ap01

6319 sequences assigned  
6252 (98.9%) exact matches, in which:  
6139 unique CDR3  
13 unique J



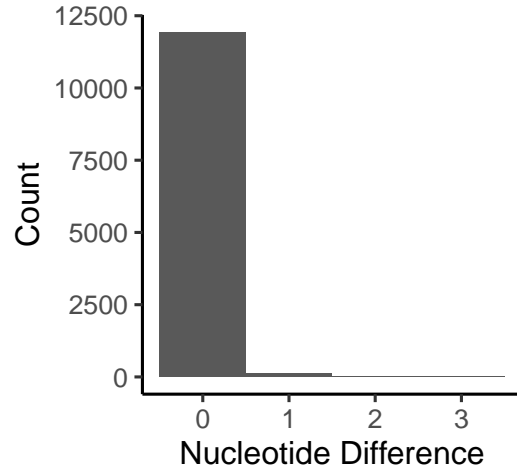
### TRBV12-5\*ap01

1915 sequences assigned  
1900 (99.2%) exact matches, in which:  
1860 unique CDR3  
13 unique J



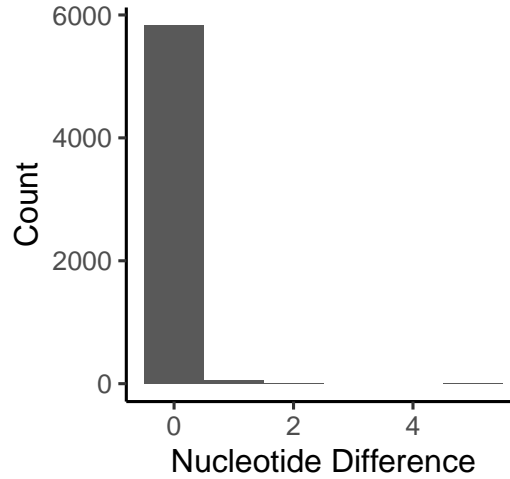
### TRBV12-34\*ap01

12050 sequences assigned  
11932 (99%) exact matches, in which:  
11694 unique CDR3  
13 unique J



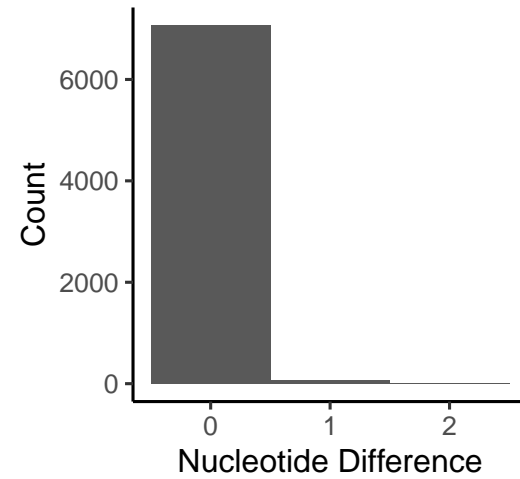
### TRBV4-1\*ap01

5892 sequences assigned  
5830 (98.9%) exact matches, in which:  
5710 unique CDR3  
13 unique J



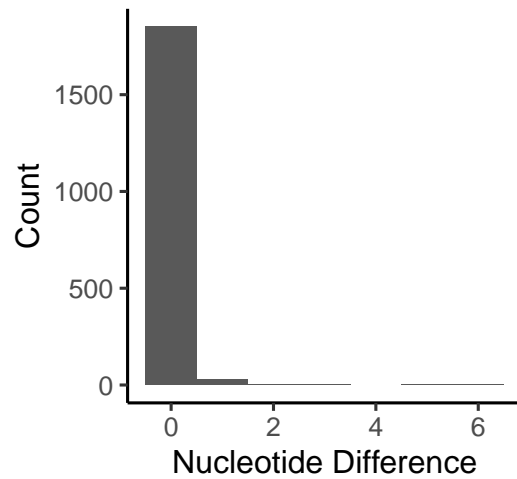
### TRBV4-3\*ap01

7142 sequences assigned  
7066 (98.9%) exact matches, in which:  
6931 unique CDR3  
13 unique J



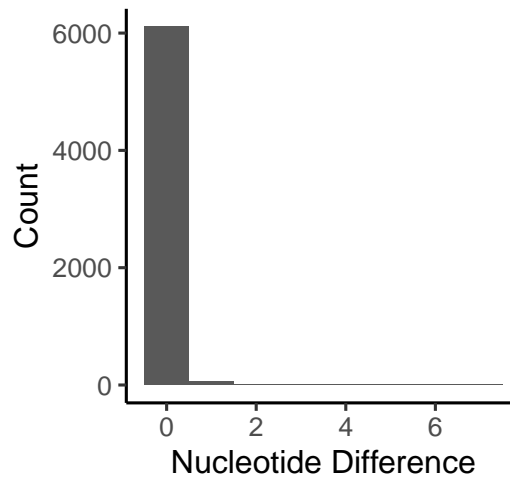
### TRBV23-1\*ap01

1893 sequences assigned  
1851 (97.8%) exact matches, in which:  
1812 unique CDR3  
13 unique J



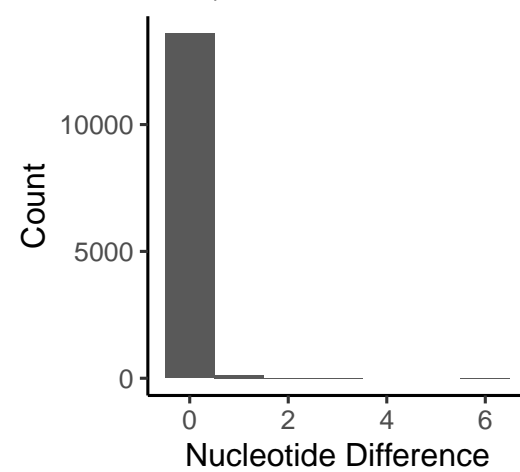
### TRBV24-1\*ap01

6190 sequences assigned  
6108 (98.7%) exact matches, in which:  
6015 unique CDR3  
13 unique J



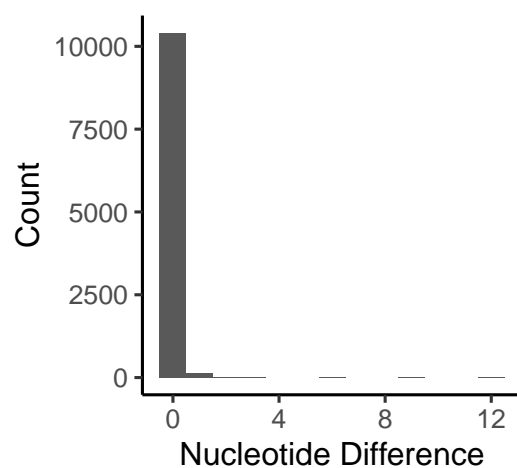
### TRBV5-1\*ap01

13732 sequences assigned  
13591 (99%) exact matches, in which:  
13269 unique CDR3  
13 unique J



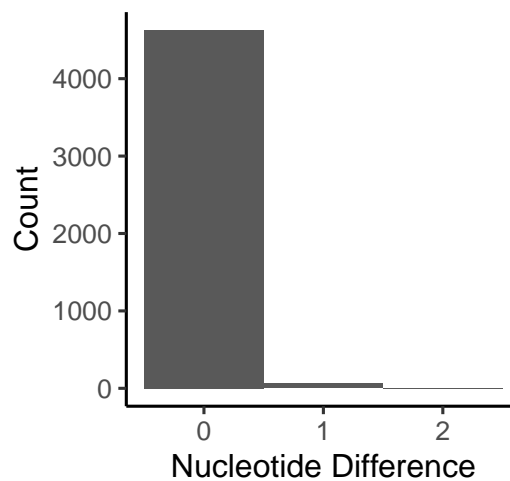
### TRBV3-12\*ap01

10551 sequences assigned  
10409 (98.7%) exact matches, in which:  
10187 unique CDR3  
13 unique J



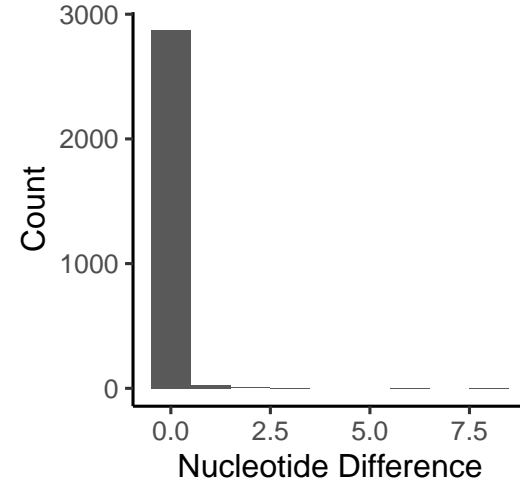
### TRBV4-2\*ap01

4691 sequences assigned  
4628 (98.7%) exact matches, in which:  
4538 unique CDR3  
13 unique J



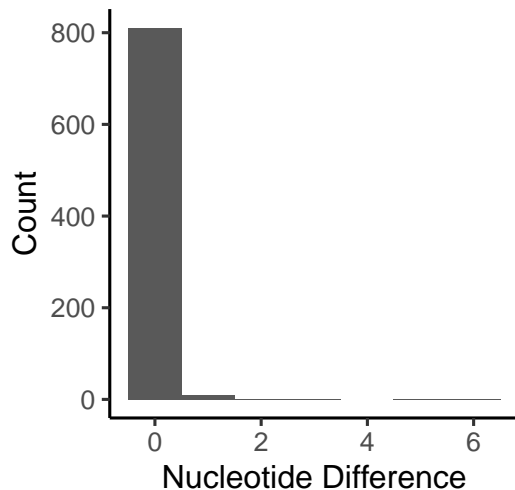
### TRBV25-1\*ap01

2912 sequences assigned  
2873 (98.7%) exact matches, in which:  
2831 unique CDR3  
13 unique J



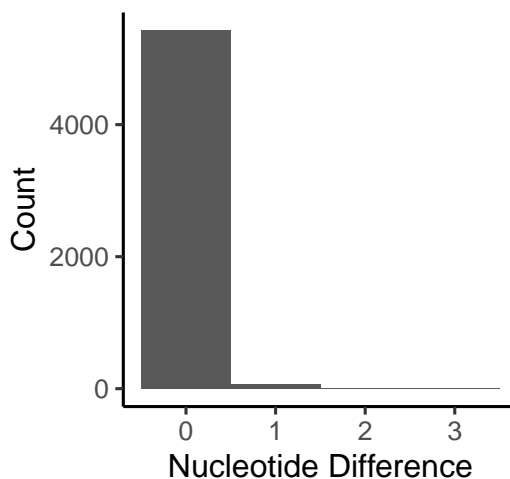
### TRBV5-3\*ap01

824 sequences assigned  
811 (98.4%) exact matches, in which:  
797 unique CDR3  
13 unique J



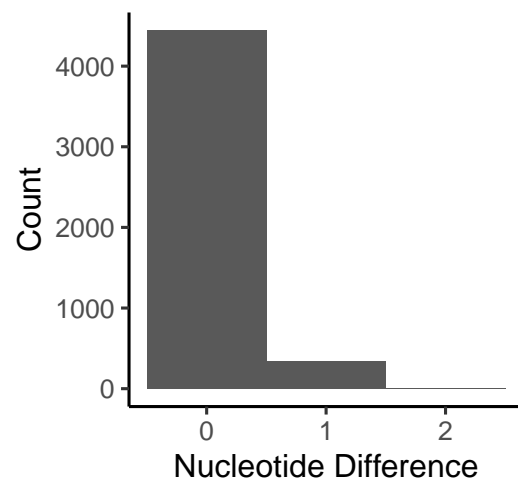
### TRBV5-6\*ap01

5503 sequences assigned  
5428 (98.6%) exact matches, in which:  
5307 unique CDR3  
13 unique J



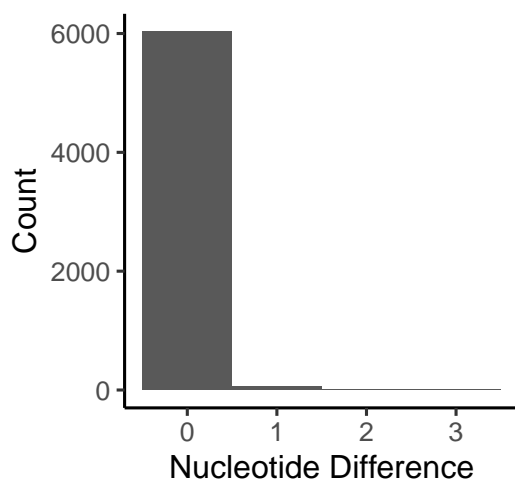
### TRBV6-1\*ap01

4788 sequences assigned  
4443 (92.8%) exact matches, in which:  
4342 unique CDR3  
13 unique J



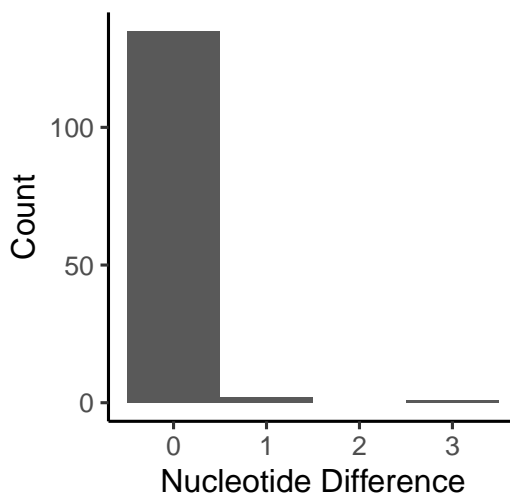
### TRBV5-4\*ap01

6097 sequences assigned  
6030 (98.9%) exact matches, in which:  
5907 unique CDR3  
13 unique J



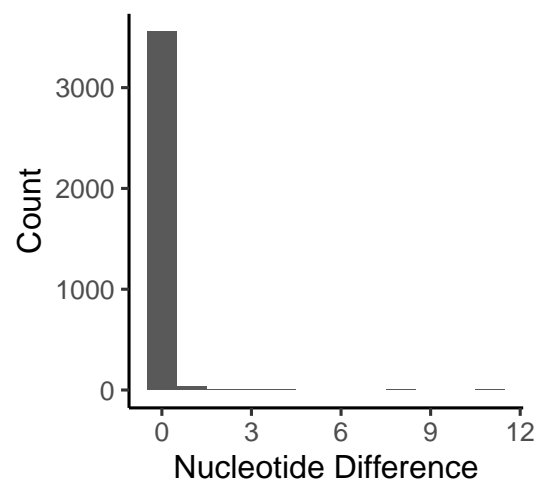
### TRBV5-7\*ap01

138 sequences assigned  
135 (97.8%) exact matches, in which:  
133 unique CDR3  
12 unique J



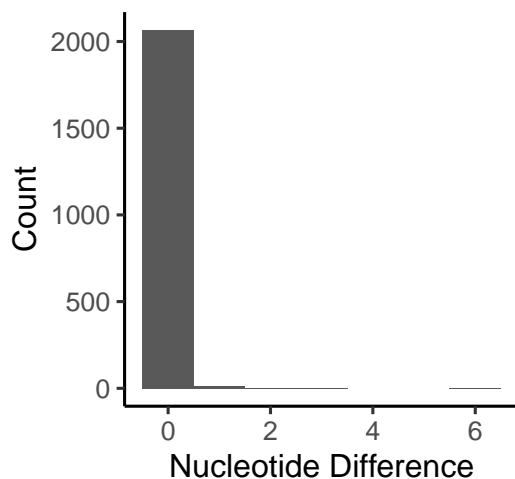
### TRBV6-4\*ap01

3602 sequences assigned  
3555 (98.7%) exact matches, in which:  
3486 unique CDR3  
13 unique J



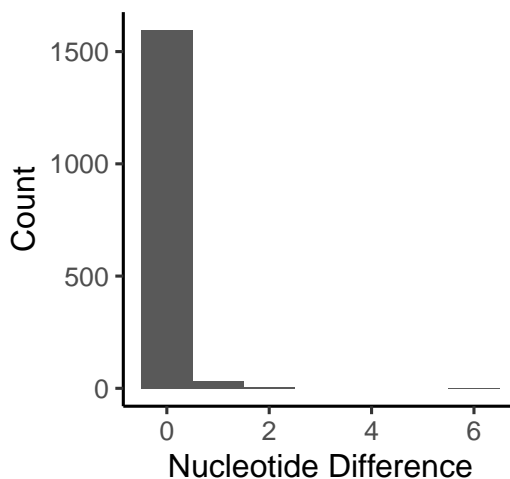
### TRBV5-5\*ap01

2085 sequences assigned  
2066 (99.1%) exact matches, in which:  
2048 unique CDR3  
13 unique J



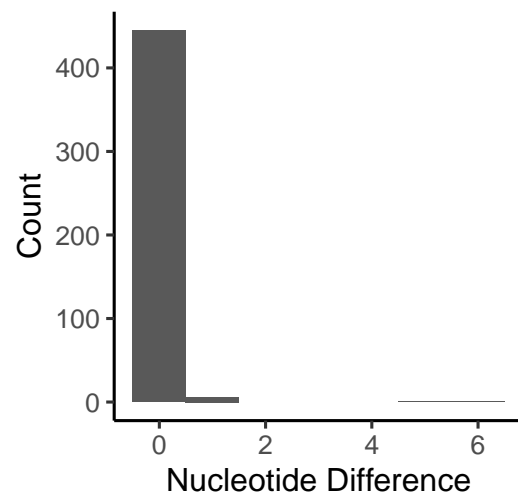
### TRBV5-8\*ap01

1635 sequences assigned  
1596 (97.6%) exact matches, in which:  
1575 unique CDR3  
13 unique J



### TRBV6-7\*ap01

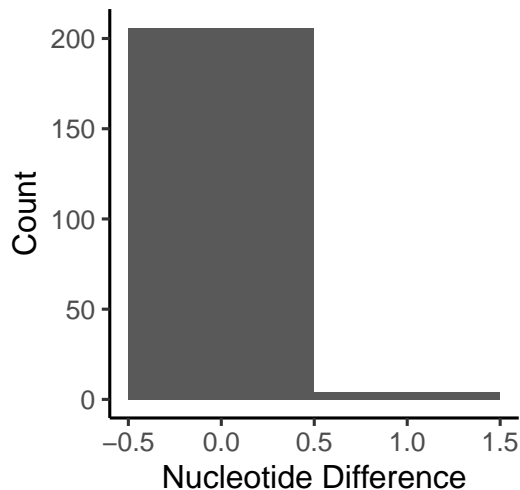
453 sequences assigned  
445 (98.2%) exact matches, in which:  
430 unique CDR3  
13 unique J





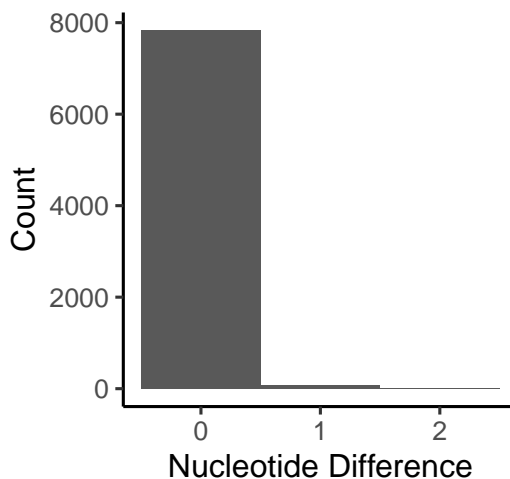
### TRBV6–8\*ap01

210 sequences assigned  
206 (98.1%) exact matches, in which:  
203 unique CDR3  
13 unique J



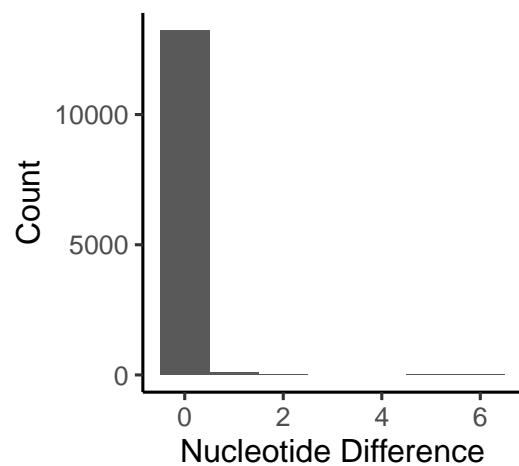
### TRBV6–56\*ap01

7915 sequences assigned  
7831 (98.9%) exact matches, in which:  
7641 unique CDR3  
13 unique J



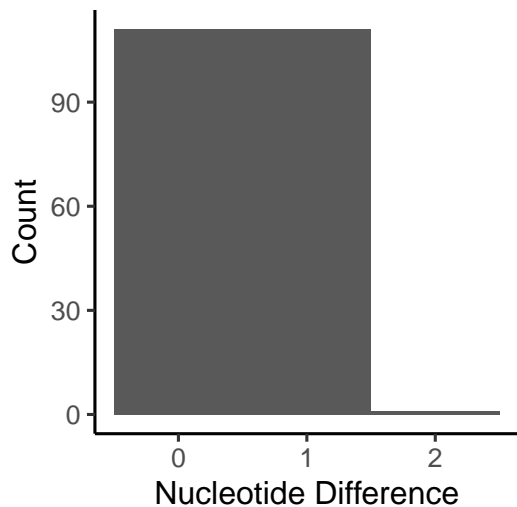
### TRBV7–2\*ap01

13347 sequences assigned  
13242 (99.2%) exact matches, in which:  
13026 unique CDR3  
13 unique J



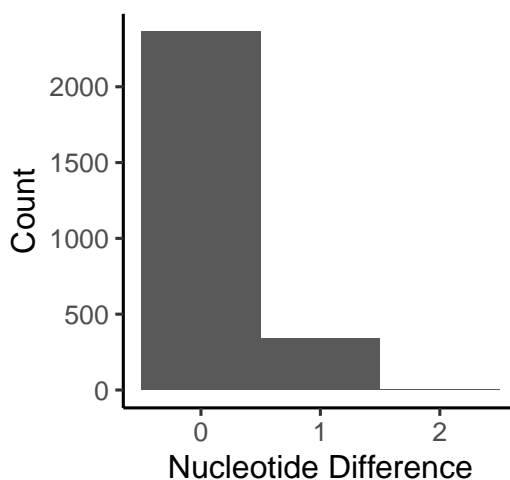
### TRBV6–9\*ap01

223 sequences assigned  
111 (49.8%) exact matches, in which:  
109 unique CDR3  
13 unique J



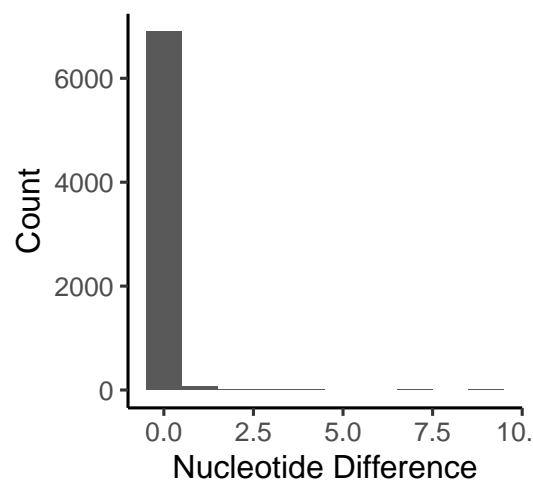
### TRBV6–56\*ap02

2707 sequences assigned  
2363 (87.3%) exact matches, in which:  
2319 unique CDR3  
13 unique J



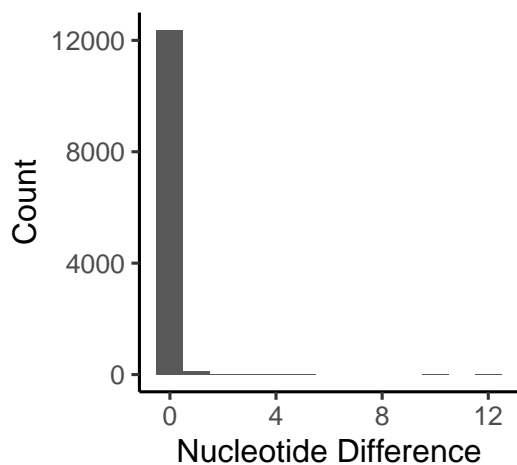
### TRBV7–3\*ap01

6981 sequences assigned  
6897 (98.8%) exact matches, in which:  
6812 unique CDR3  
13 unique J



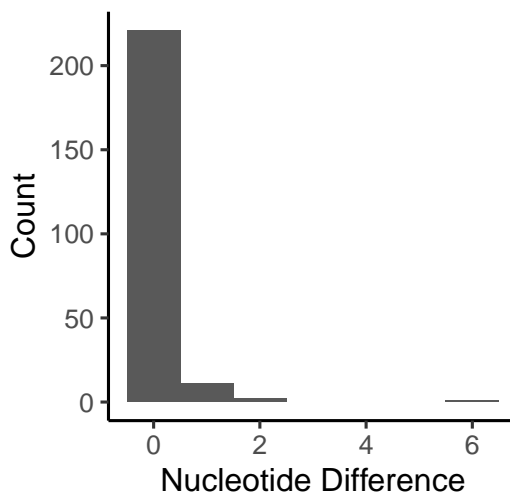
### TRBV6–23\*ap01

12532 sequences assigned  
12379 (98.8%) exact matches, in which:  
12081 unique CDR3  
13 unique J



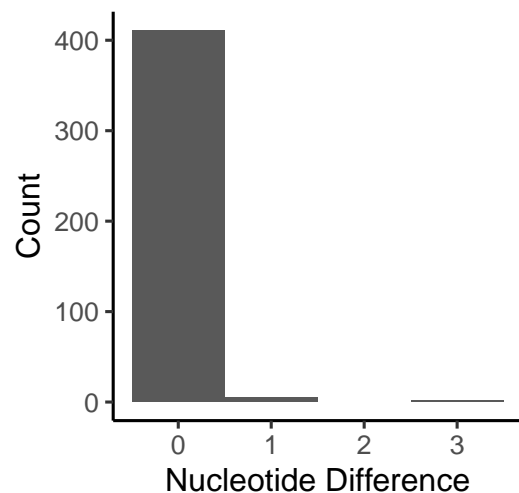
### TRBV7–1\*ap01\_G291C\_

235 sequences assigned  
221 (94%) exact matches, in which:  
219 unique CDR3  
13 unique J



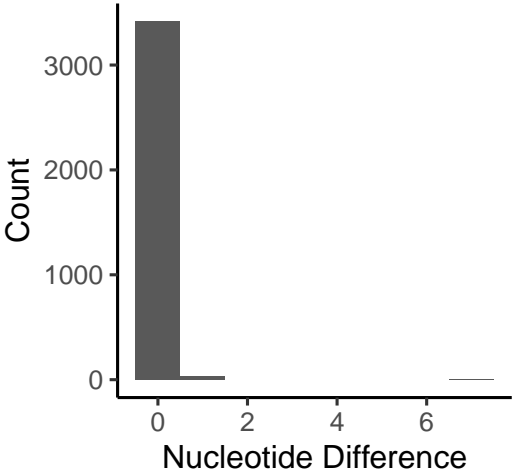
### TRBV7–4\*ap01

418 sequences assigned  
411 (98.3%) exact matches, in which:  
403 unique CDR3  
13 unique J



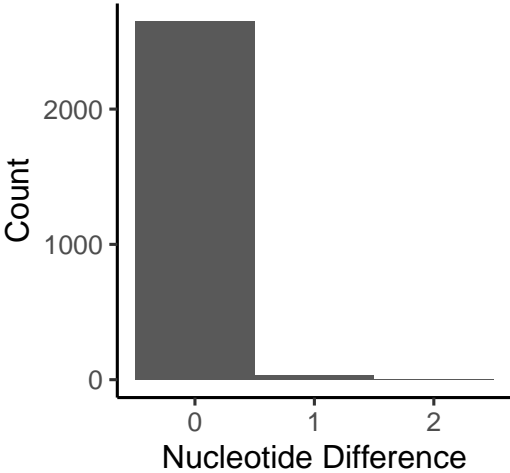
TRBV7-6\*ap01

3451 sequences assigned  
3416 (99%) exact matches, in which:  
3338 unique CDR3  
13 unique J



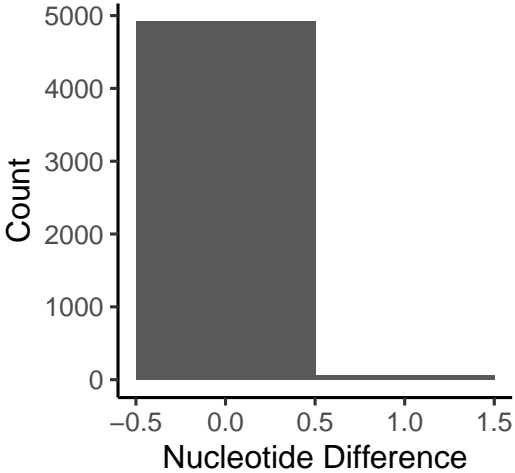
TRBV7-8\*ap01

2683 sequences assigned  
2648 (98.7%) exact matches, in which:  
2591 unique CDR3  
13 unique J



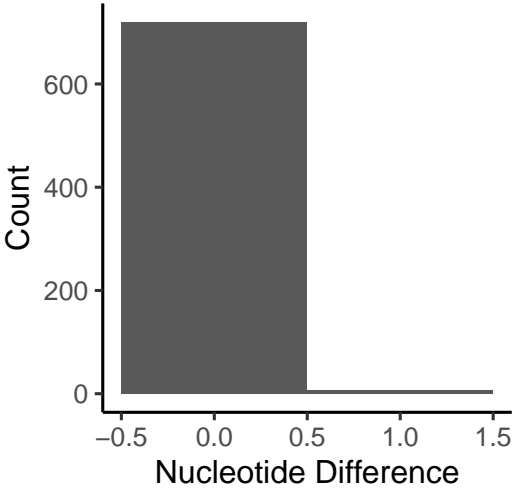
TRBV29-1\*ap01

4978 sequences assigned  
4920 (98.8%) exact matches, in which:  
4829 unique CDR3  
13 unique J



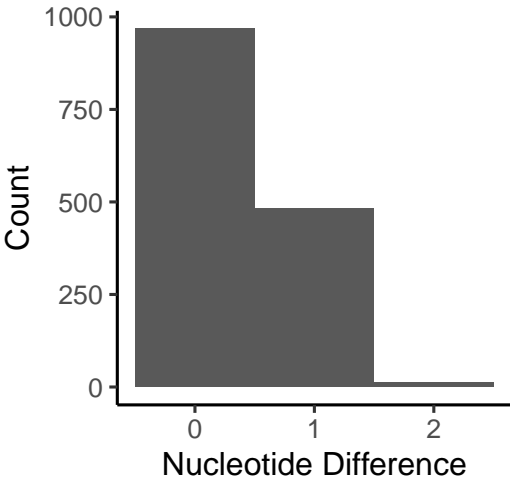
TRBV7-7\*ap01

726 sequences assigned  
720 (99.2%) exact matches, in which:  
705 unique CDR3  
13 unique J



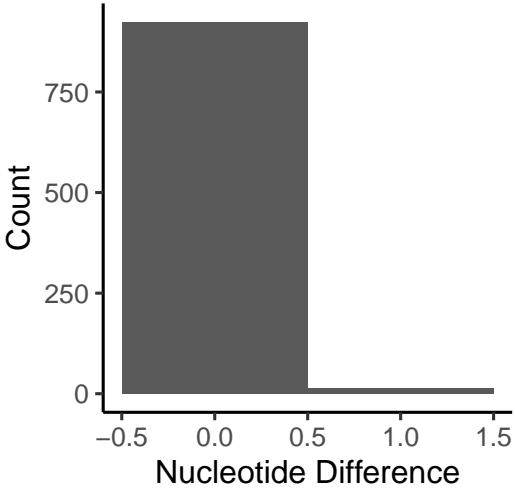
TRBV7-8\*ap03

1462 sequences assigned  
968 (66.2%) exact matches, in which:  
941 unique CDR3  
13 unique J



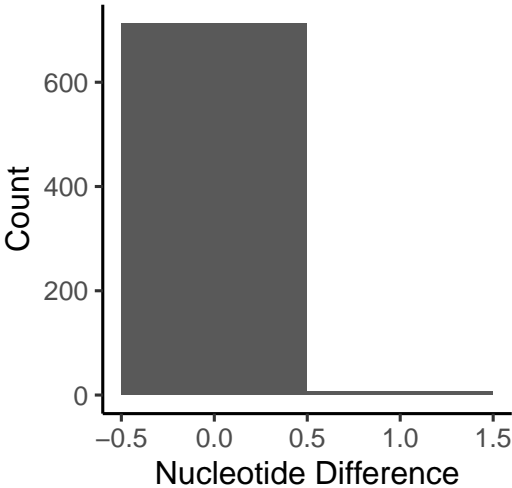
TRBV29-1\*ap02

938 sequences assigned  
924 (98.5%) exact matches, in which:  
910 unique CDR3  
13 unique J



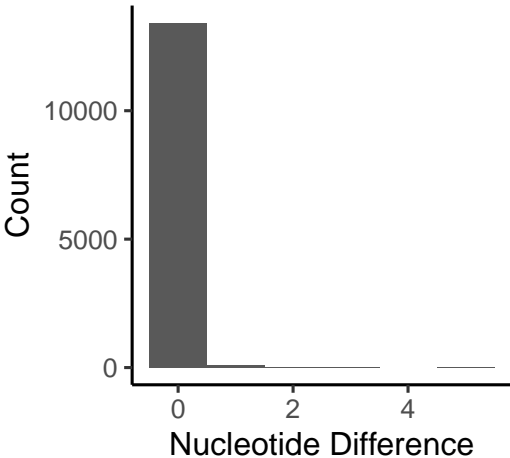
TRBV7-7\*ap01\_C315T

720 sequences assigned  
713 (99%) exact matches, in which:  
700 unique CDR3  
13 unique J

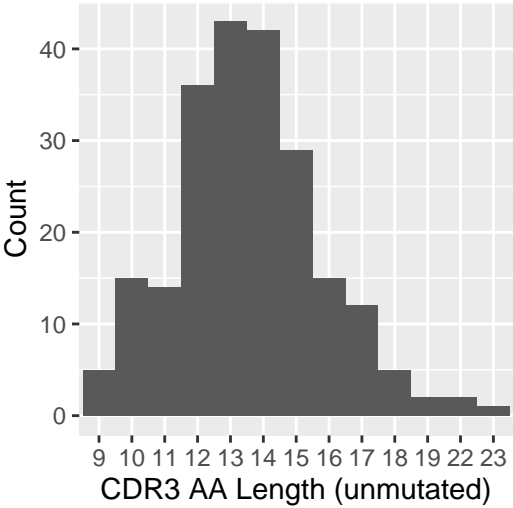


TRBV7-9\*ap01

13544 sequences assigned  
13423 (99.1%) exact matches, in which:  
13250 unique CDR3  
13 unique J



TRBV7-1\*ap01\_G291C\_T296C



TRBV7-7\*ap01\_C315T

