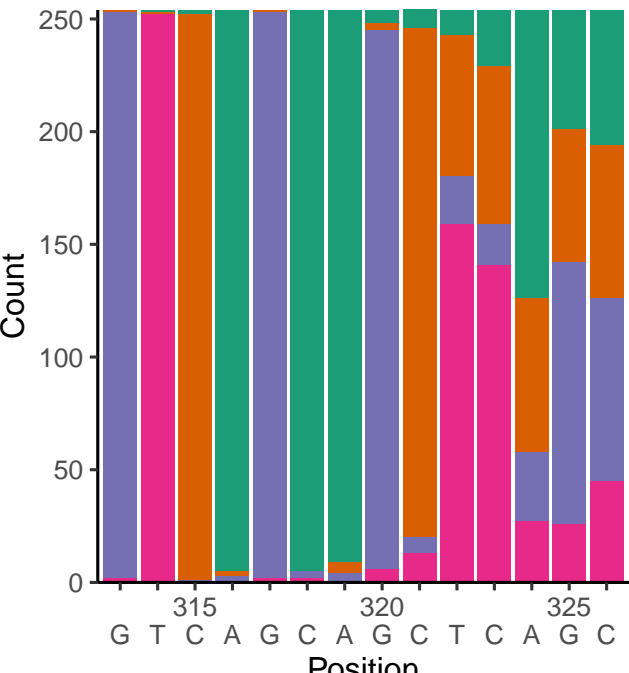
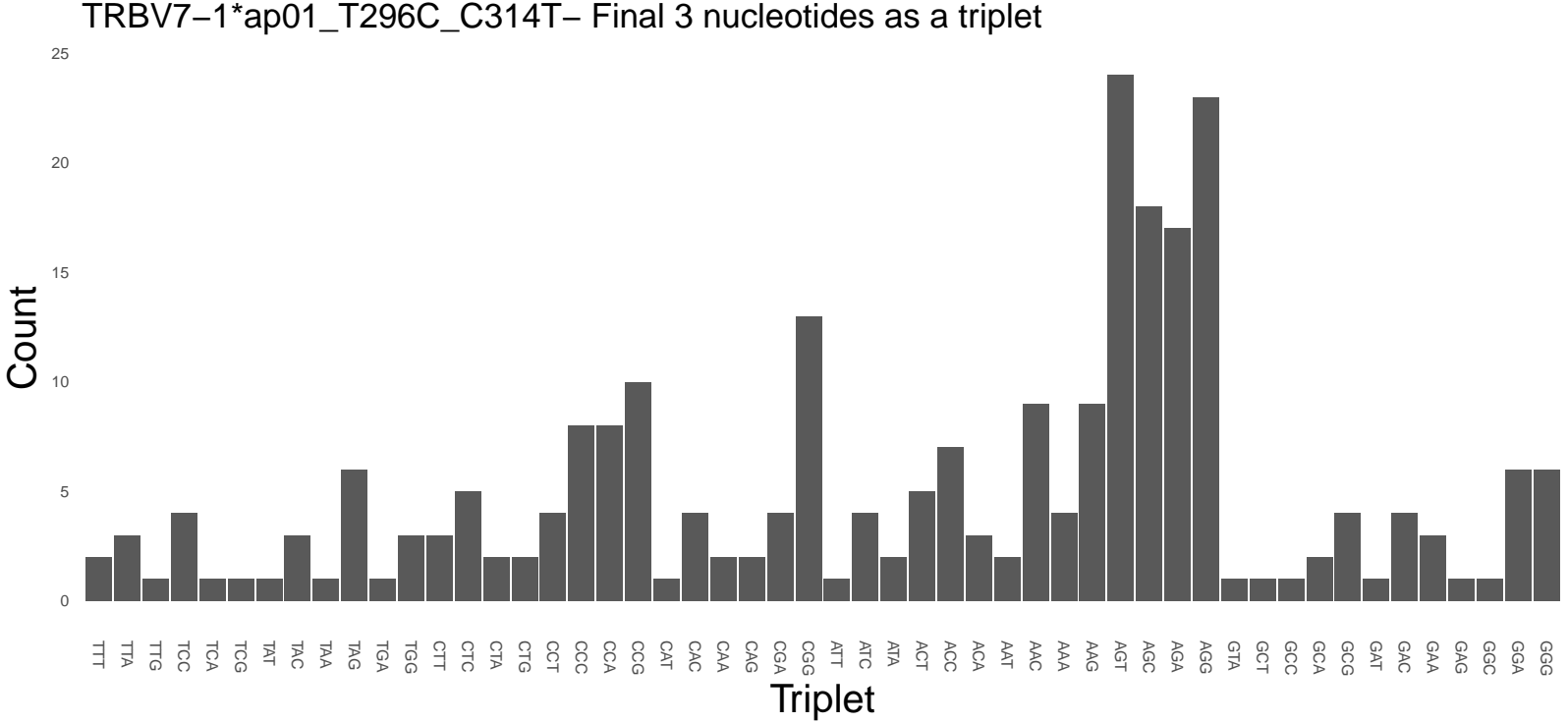


Gene TRBV7-1\*ap01\_T296C\_C314T



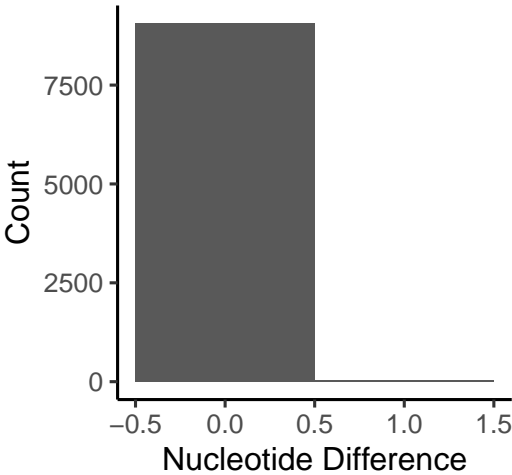
Gene TRBV7-1\*ap01\_T296C\_C314T





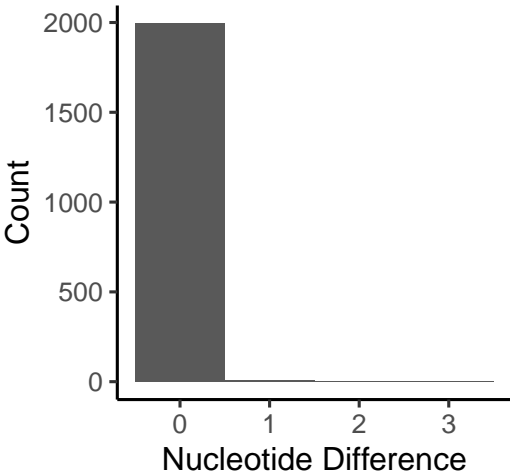
TRBV20-1\*ap01

9104 sequences assigned  
9060 (99.5%) exact matches, in which:  
8998 unique CDR3  
13 unique J



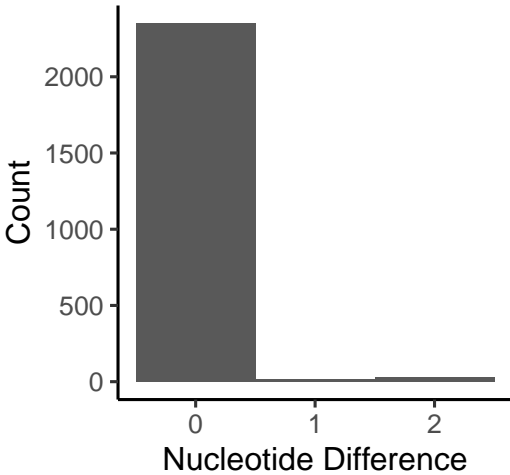
TRBV10-2\*ap01

2007 sequences assigned  
1995 (99.4%) exact matches, in which:  
1981 unique CDR3  
13 unique J



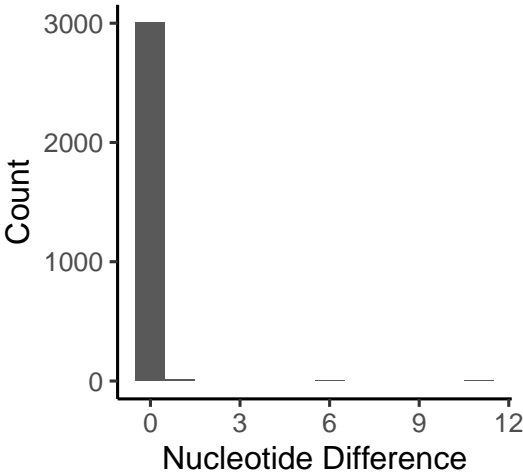
TRBV13\*ap01

2394 sequences assigned  
2350 (98.2%) exact matches, in which:  
2319 unique CDR3  
13 unique J



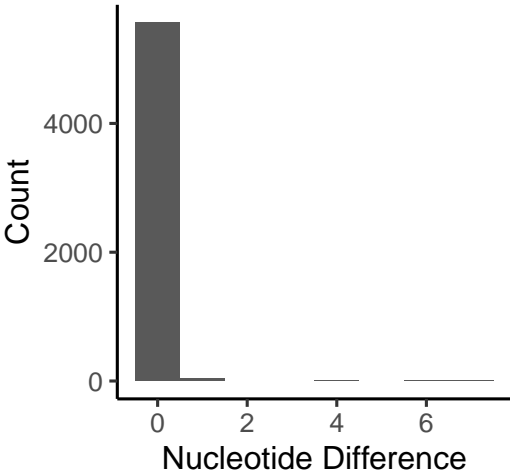
TRBV10-1\*ap01

3016 sequences assigned  
3004 (99.6%) exact matches, in which:  
2971 unique CDR3  
13 unique J



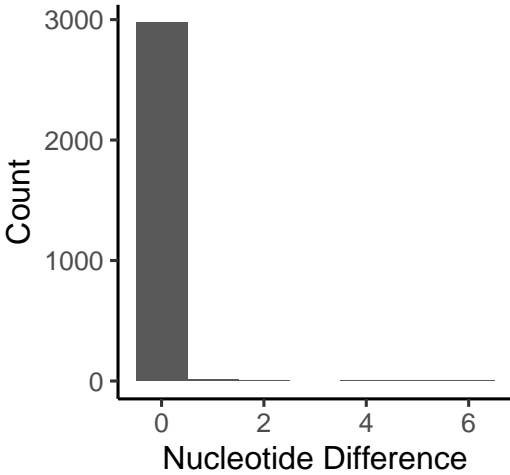
TRBV10-3\*ap01

5602 sequences assigned  
5564 (99.3%) exact matches, in which:  
5521 unique CDR3  
13 unique J



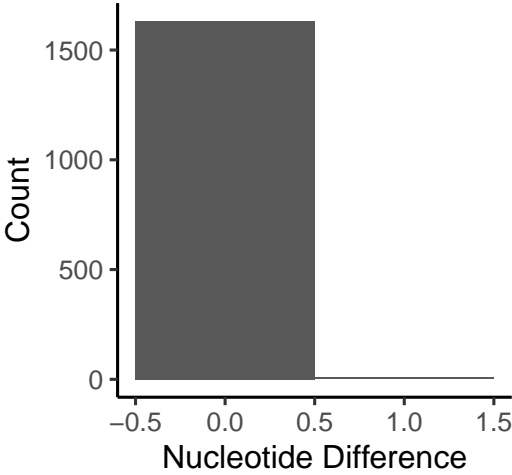
TRBV14\*ap01

2990 sequences assigned  
2974 (99.5%) exact matches, in which:  
2948 unique CDR3  
13 unique J



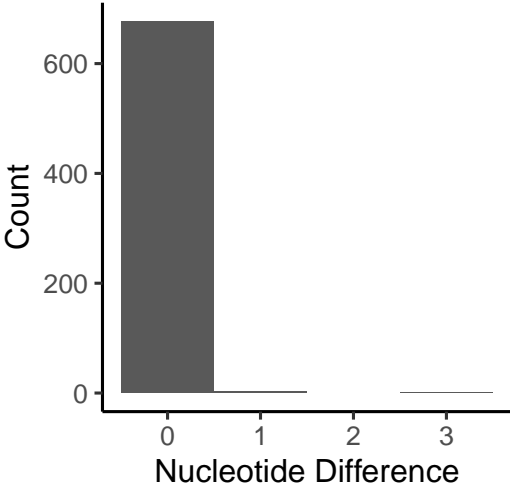
TRBV20-1\*ap02

1641 sequences assigned  
1632 (99.5%) exact matches, in which:  
1625 unique CDR3  
13 unique J



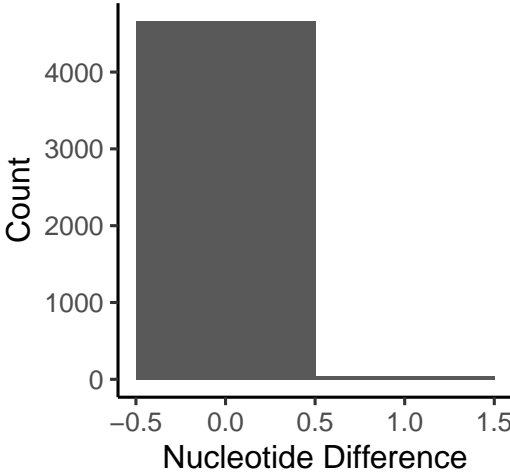
TRBV1\*ap01

681 sequences assigned  
677 (99.4%) exact matches, in which:  
667 unique CDR3  
13 unique J



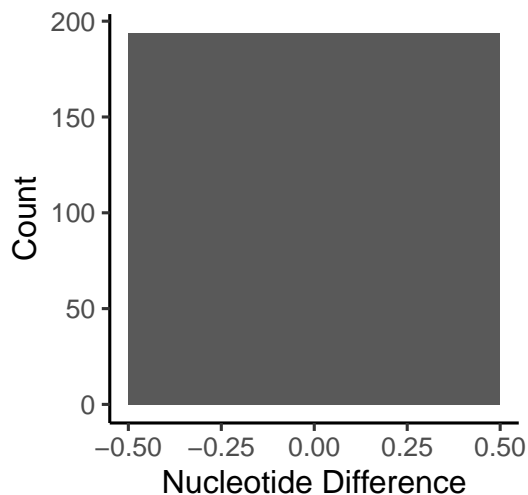
TRBV15\*ap02

4705 sequences assigned  
4664 (99.1%) exact matches, in which:  
4610 unique CDR3  
13 unique J



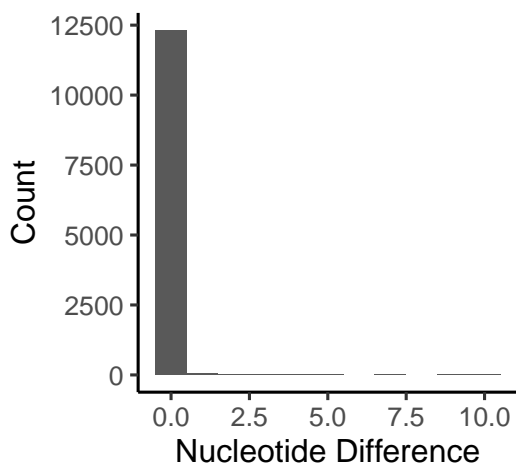
### TRBV16\*ap01

194 sequences assigned  
194 (100%) exact matches, in which:  
191 unique CDR3  
13 unique J



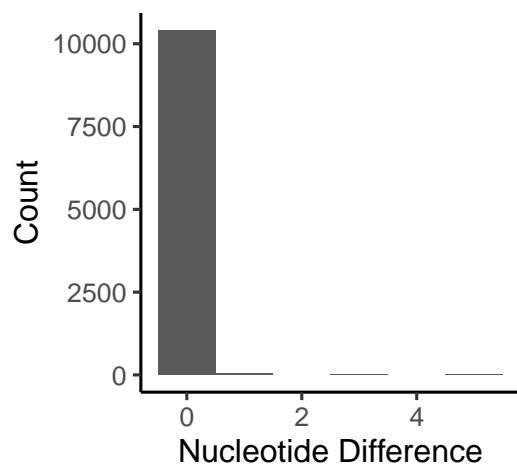
### TRBV19\*ap01

12402 sequences assigned  
12321 (99.3%) exact matches, in which:  
12255 unique CDR3  
13 unique J



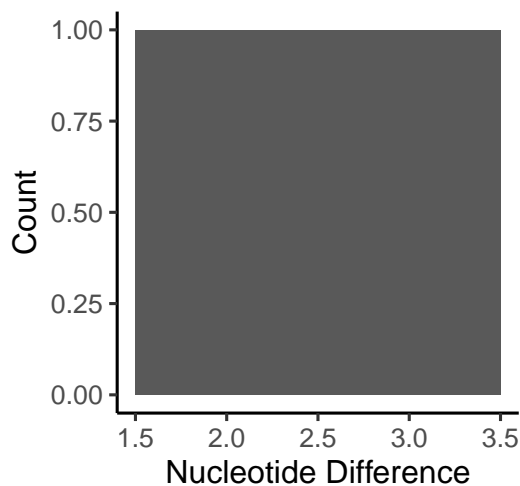
### TRBV28\*ap01

10456 sequences assigned  
10411 (99.6%) exact matches, in which:  
10349 unique CDR3  
13 unique J



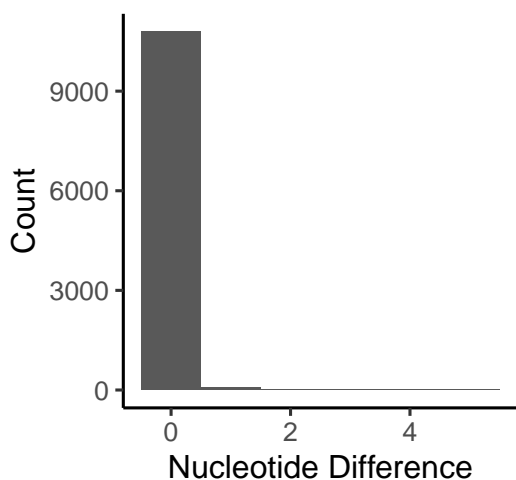
### TRBV17\*ap01

2 sequences assigned  
No exact matches.



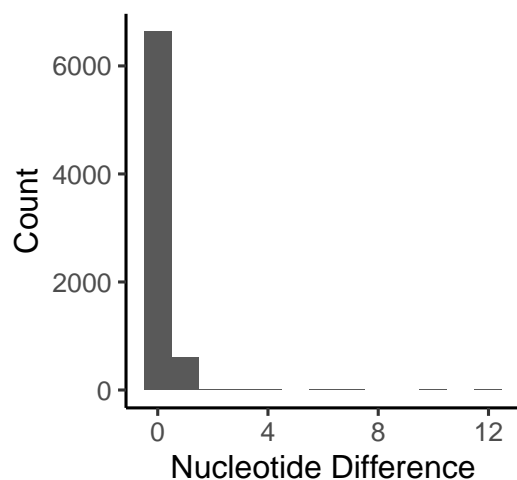
### TRBV2\*ap01

10858 sequences assigned  
10789 (99.4%) exact matches, in which:  
10701 unique CDR3  
13 unique J



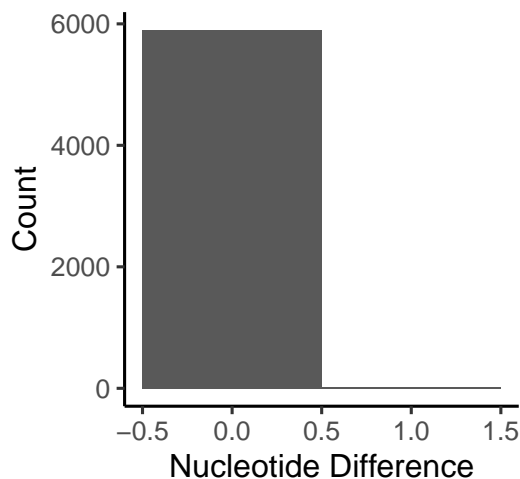
### TRBV30\*ap01

7261 sequences assigned  
6633 (91.4%) exact matches, in which:  
6472 unique CDR3  
13 unique J



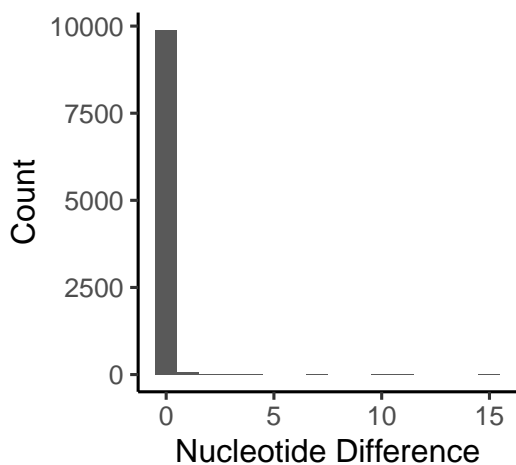
### TRBV18\*ap01

5915 sequences assigned  
5898 (99.7%) exact matches, in which:  
5875 unique CDR3  
13 unique J



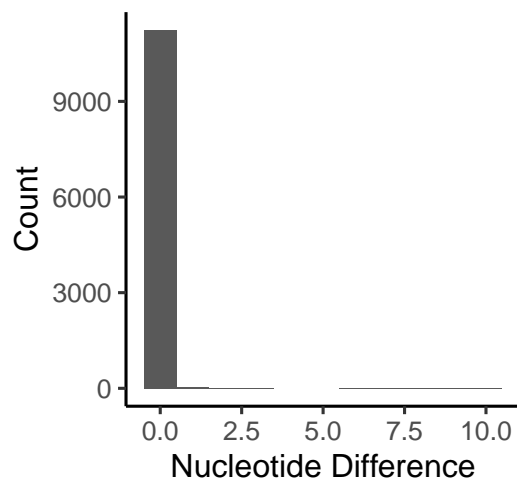
### TRBV27\*ap01

9975 sequences assigned  
9894 (99.2%) exact matches, in which:  
9797 unique CDR3  
13 unique J



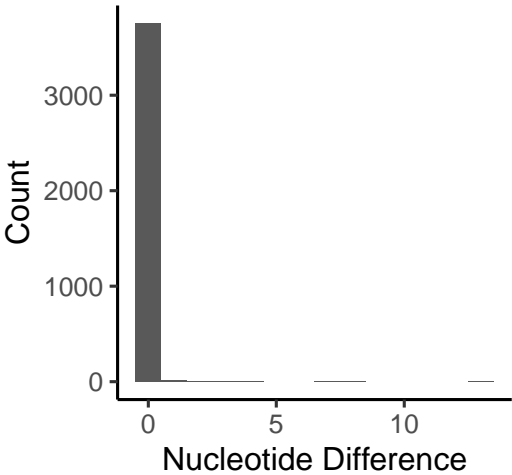
### TRBV9\*ap01

11284 sequences assigned  
11238 (99.6%) exact matches, in which:  
11177 unique CDR3  
13 unique J



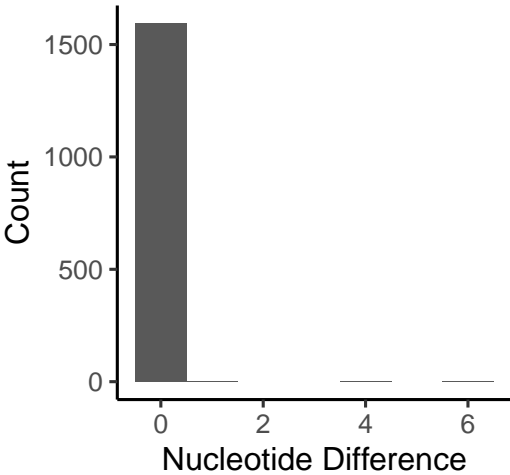
TRBV21-1\*ap01

3799 sequences assigned  
3752 (98.8%) exact matches, in which:  
3734 unique CDR3  
13 unique J



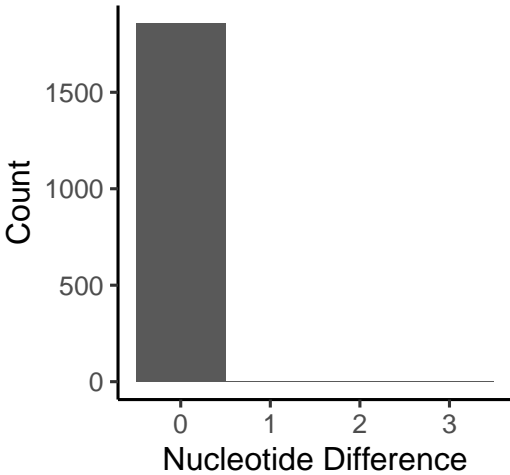
TRBV11-3\*ap01

1599 sequences assigned  
1594 (99.7%) exact matches, in which:  
1591 unique CDR3  
13 unique J



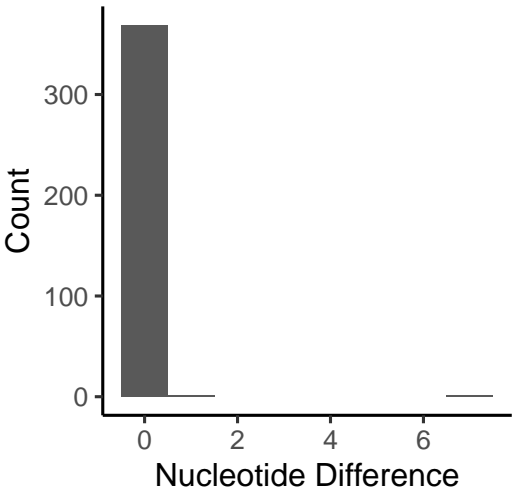
TRBV12-5\*ap01

1865 sequences assigned  
1857 (99.6%) exact matches, in which:  
1845 unique CDR3  
13 unique J



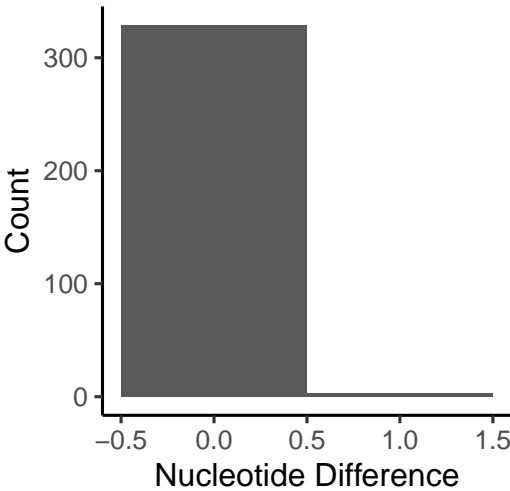
TRBV11-1\*ap01

371 sequences assigned  
369 (99.5%) exact matches, in which:  
369 unique CDR3  
13 unique J



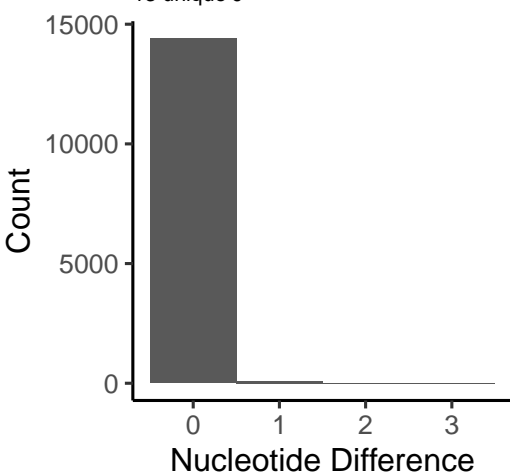
TRBV12-1\*ap01

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



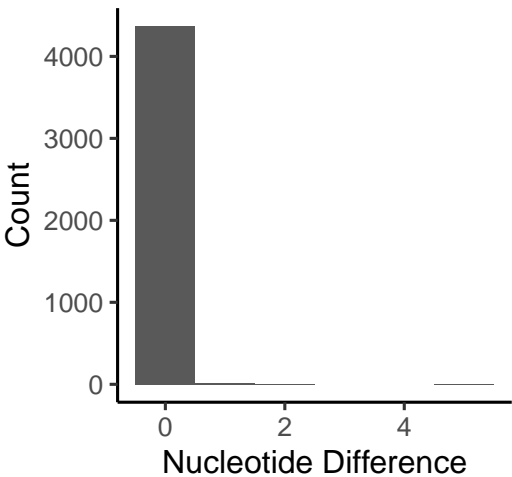
TRBV12-34\*ap01

14508 sequences assigned  
14404 (99.3%) exact matches, in which:  
14290 unique CDR3  
13 unique J



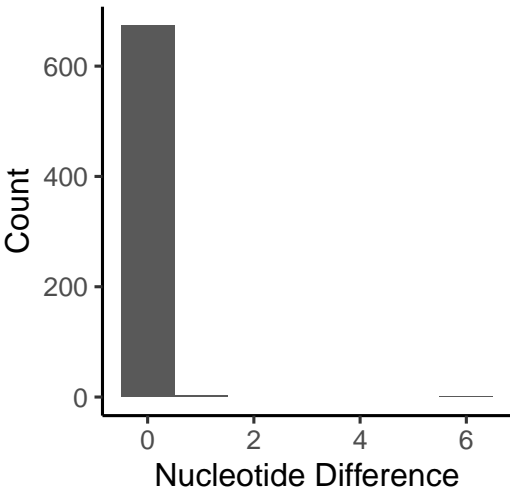
TRBV11-2\*ap01

4388 sequences assigned  
4370 (99.6%) exact matches, in which:  
4357 unique CDR3  
13 unique J



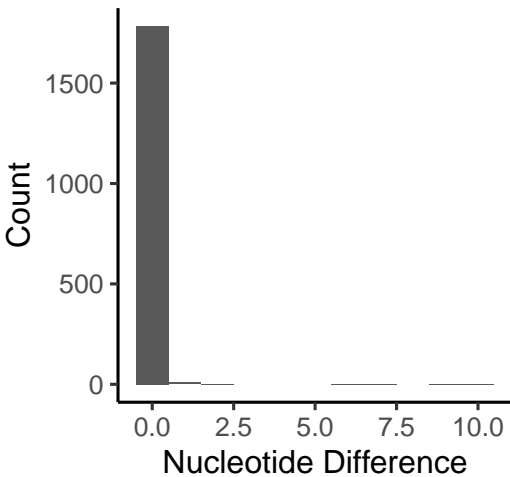
TRBV12-2\*ap01

678 sequences assigned  
674 (99.4%) exact matches, in which:  
669 unique CDR3  
13 unique J



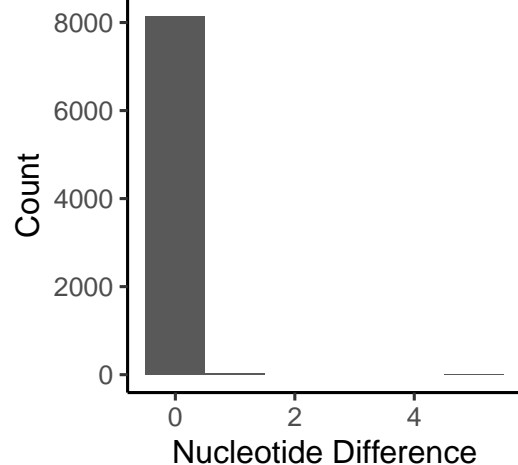
TRBV23-1\*ap01

1799 sequences assigned  
1784 (99.2%) exact matches, in which:  
1770 unique CDR3  
13 unique J



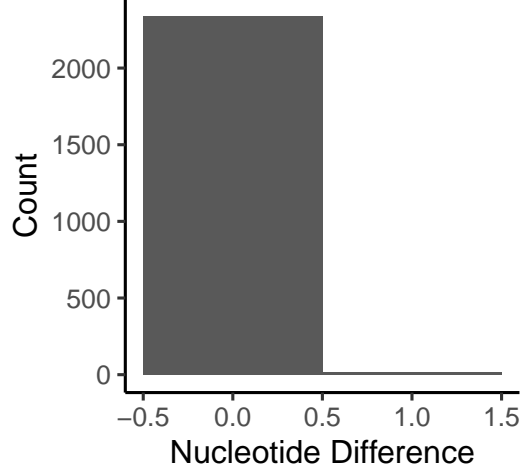
### TRBV3-12\*ap01

8172 sequences assigned  
8139 (99.6%) exact matches, in which:  
8101 unique CDR3  
13 unique J



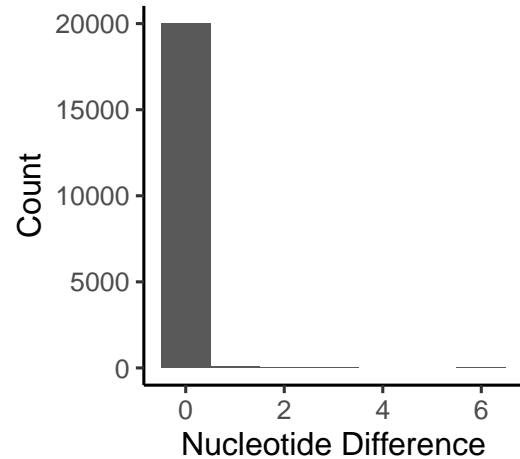
### TRBV4-2\*ap01

2356 sequences assigned  
2337 (99.2%) exact matches, in which:  
2305 unique CDR3  
13 unique J



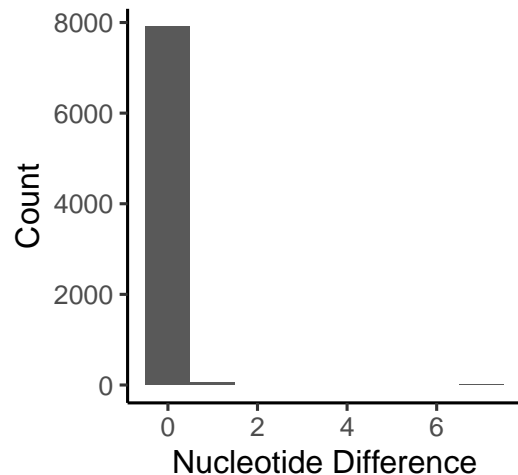
### TRBV5-1\*ap01

20140 sequences assigned  
20027 (99.4%) exact matches, in which:  
19801 unique CDR3  
13 unique J



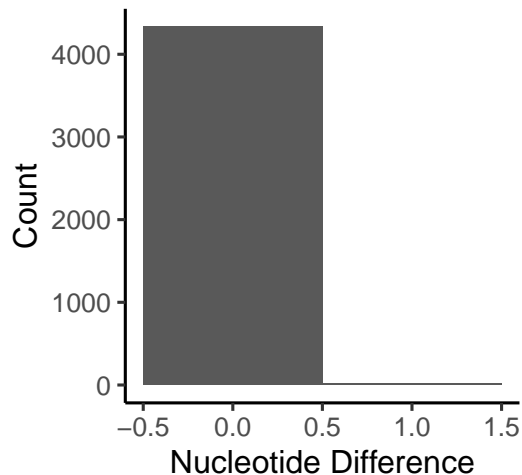
### TRBV4-1\*ap01

7953 sequences assigned  
7907 (99.4%) exact matches, in which:  
7787 unique CDR3  
13 unique J



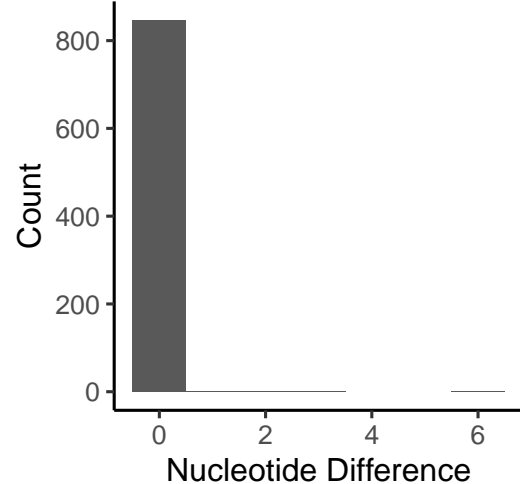
### TRBV4-3\*ap01

4355 sequences assigned  
4333 (99.5%) exact matches, in which:  
4253 unique CDR3  
13 unique J



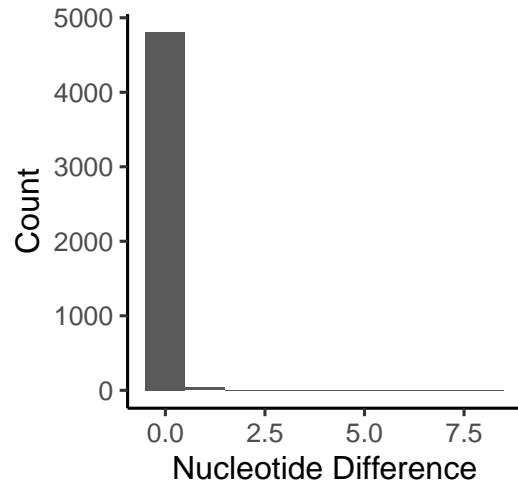
### TRBV5-3\*ap01

852 sequences assigned  
847 (99.4%) exact matches, in which:  
843 unique CDR3  
13 unique J



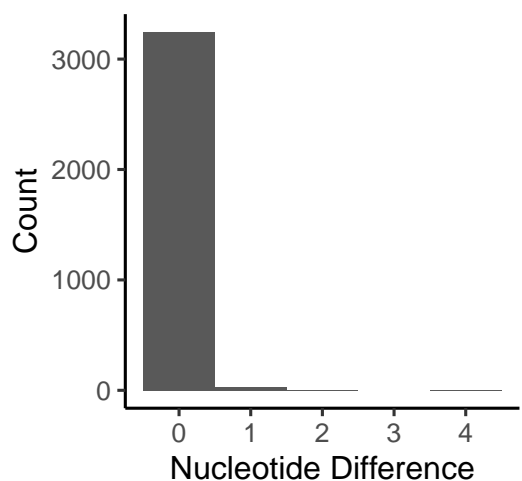
### TRBV24-1\*ap01

4861 sequences assigned  
4808 (98.9%) exact matches, in which:  
4753 unique CDR3  
13 unique J



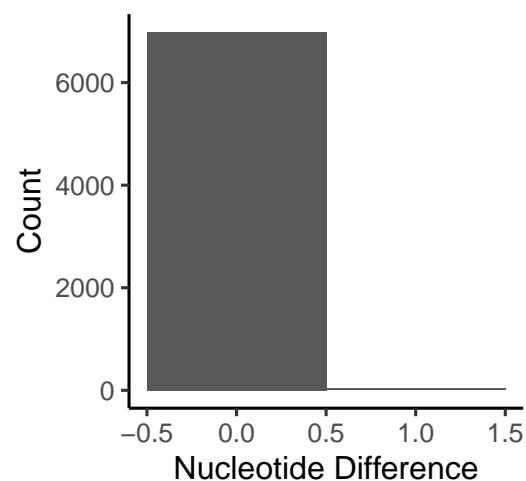
### TRBV25-1\*ap01

3279 sequences assigned  
3245 (99%) exact matches, in which:  
3184 unique CDR3  
13 unique J



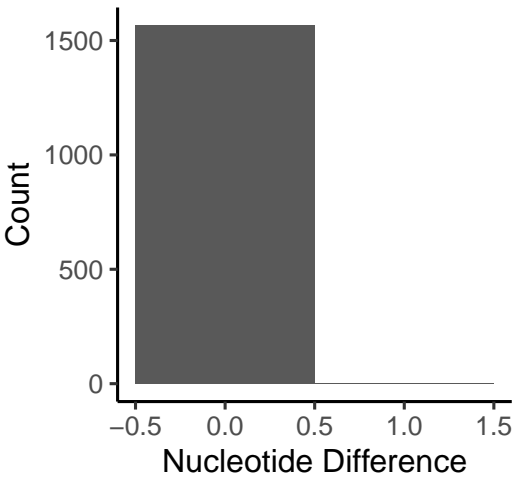
### TRBV5-4\*ap01

7019 sequences assigned  
6986 (99.5%) exact matches, in which:  
6901 unique CDR3  
13 unique J



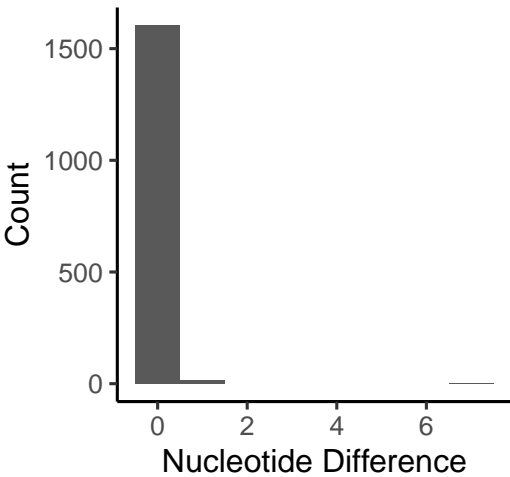
TRBV5-5\*ap01

1569 sequences assigned  
1566 (99.8%) exact matches, in which:  
1560 unique CDR3  
13 unique J



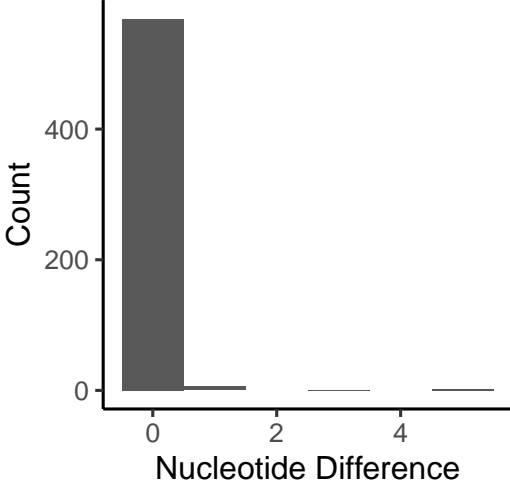
TRBV5-8\*ap01

1619 sequences assigned  
1604 (99.1%) exact matches, in which:  
1588 unique CDR3  
13 unique J



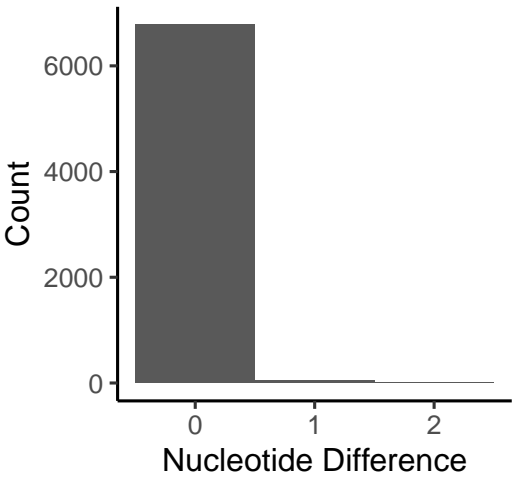
TRBV6-7\*ap01

578 sequences assigned  
569 (98.4%) exact matches, in which:  
562 unique CDR3  
13 unique J



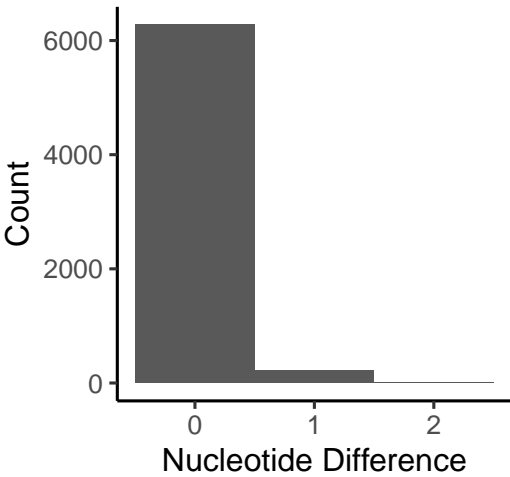
TRBV5-6\*ap01

6821 sequences assigned  
6778 (99.4%) exact matches, in which:  
6640 unique CDR3  
13 unique J



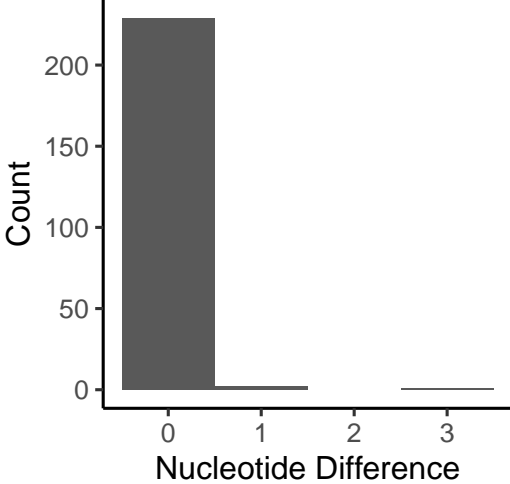
TRBV6-1\*ap01

6501 sequences assigned  
6277 (96.6%) exact matches, in which:  
6187 unique CDR3  
13 unique J



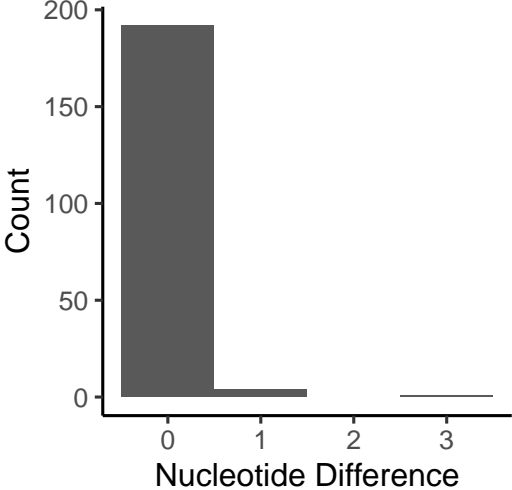
TRBV6-8\*ap01

232 sequences assigned  
229 (98.7%) exact matches, in which:  
227 unique CDR3  
13 unique J



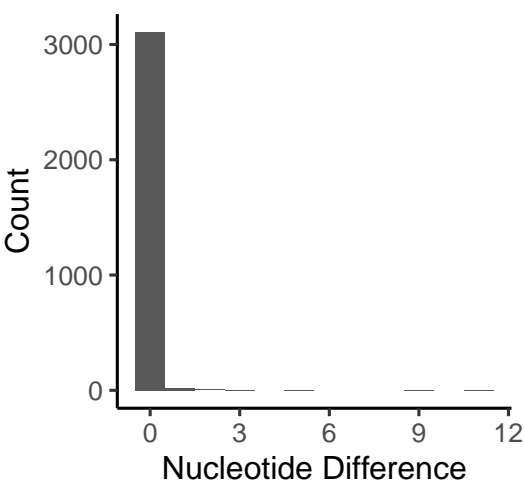
TRBV5-7\*ap01

197 sequences assigned  
192 (97.5%) exact matches, in which:  
187 unique CDR3  
13 unique J



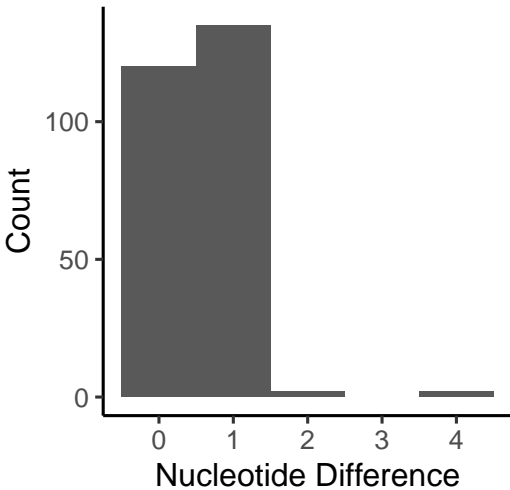
TRBV6-4\*ap01

3138 sequences assigned  
3108 (99%) exact matches, in which:  
3095 unique CDR3  
13 unique J



TRBV6-9\*ap01

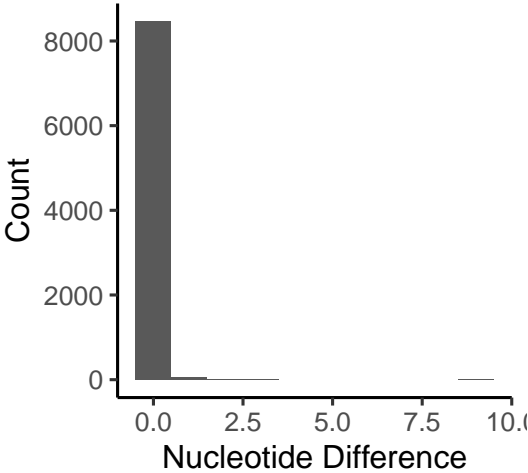
259 sequences assigned  
120 (46.3%) exact matches, in which:  
120 unique CDR3  
13 unique J





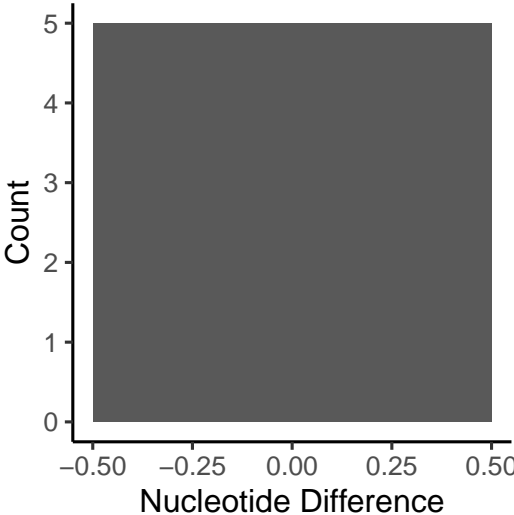
TRBV6-23\*ap01

8534 sequences assigned  
8462 (99.2%) exact matches, in which:  
8304 unique CDR3  
13 unique J



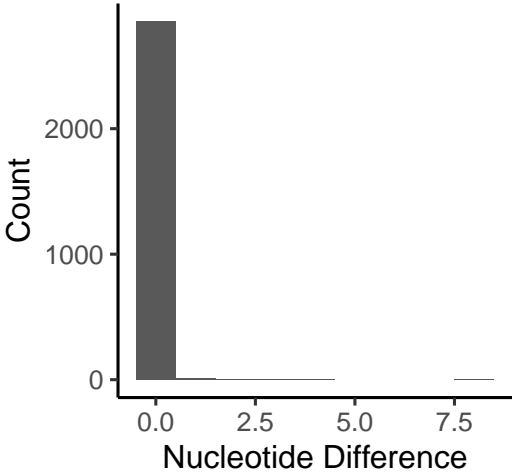
TRBV7-1\*ap01

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



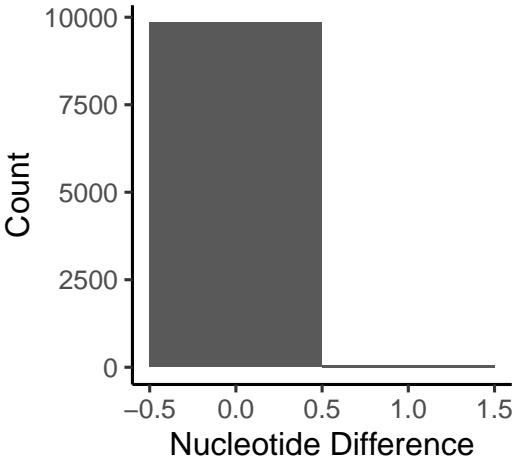
TRBV7-3\*ap01

2873 sequences assigned  
2855 (99.4%) exact matches, in which:  
2845 unique CDR3  
13 unique J



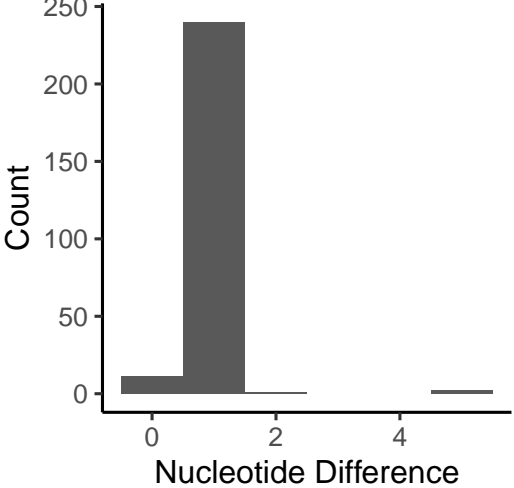
TRBV6-56\*ap01

9916 sequences assigned  
9850 (99.3%) exact matches, in which:  
9690 unique CDR3  
13 unique J



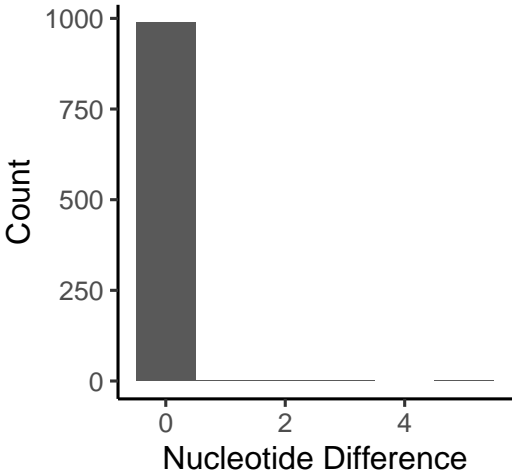
TRBV7-1\*ap01\_T296C\_(

254 sequences assigned  
11 (4.3%) exact matches, in which:  
11 unique CDR3  
7 unique J



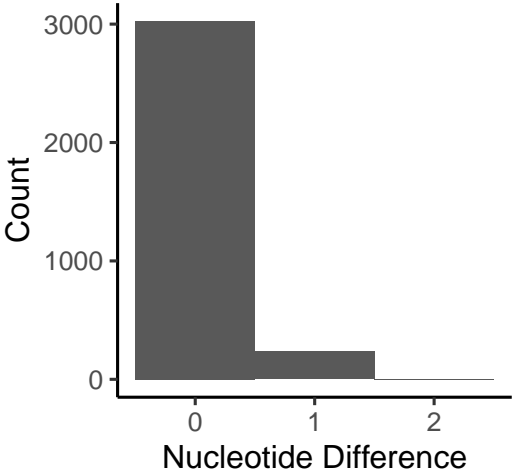
TRBV7-3\*ap02

994 sequences assigned  
988 (99.4%) exact matches, in which:  
980 unique CDR3  
13 unique J



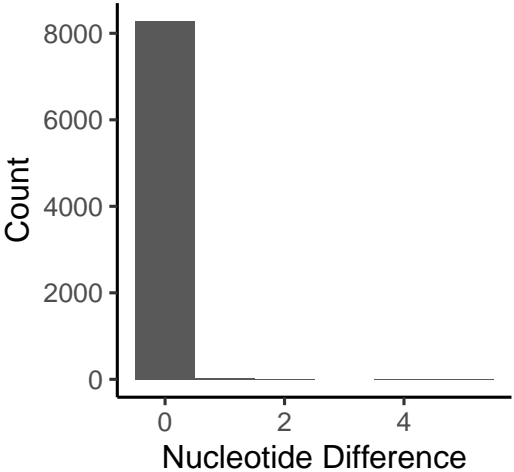
TRBV6-56\*ap02

3262 sequences assigned  
3026 (92.8%) exact matches, in which:  
2987 unique CDR3  
13 unique J



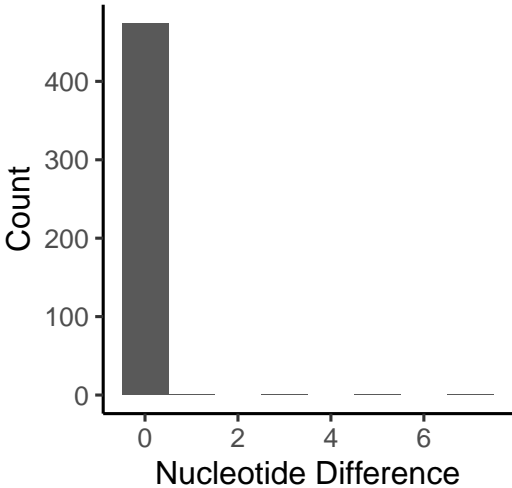
TRBV7-2\*ap01

8317 sequences assigned  
8283 (99.6%) exact matches, in which:  
8214 unique CDR3  
13 unique J



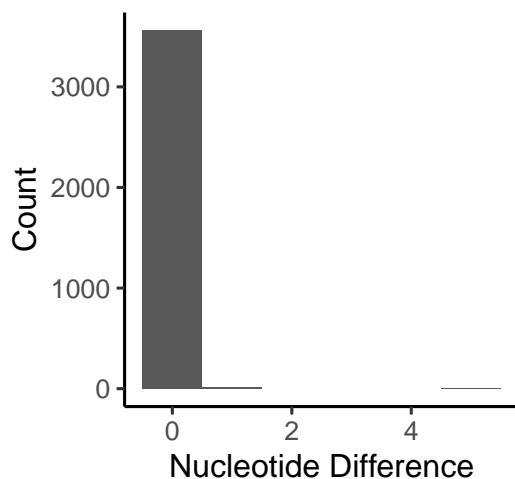
TRBV7-4\*ap01

478 sequences assigned  
474 (99.2%) exact matches, in which:  
469 unique CDR3  
13 unique J



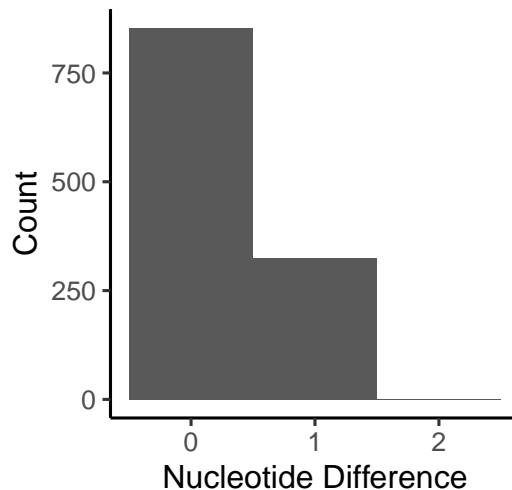
### TRBV7-6\*ap01

3578 sequences assigned  
3561 (99.5%) exact matches, in which:  
3522 unique CDR3  
13 unique J



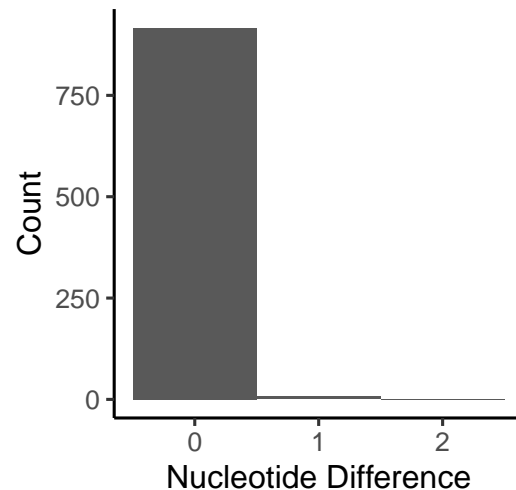
### TRBV7-8\*ap03

1180 sequences assigned  
854 (72.4%) exact matches, in which:  
845 unique CDR3  
13 unique J



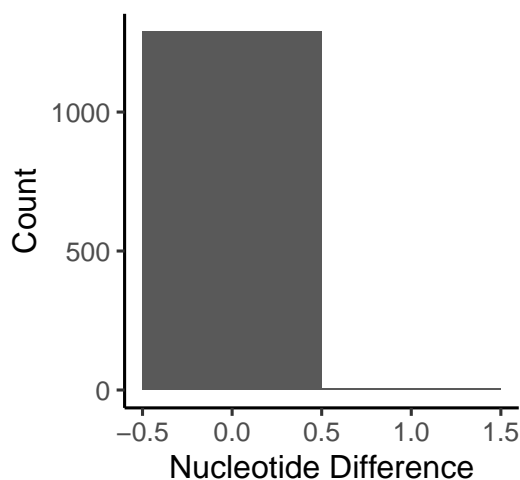
### TRBV29-1\*ap02

925 sequences assigned  
917 (99.1%) exact matches, in which:  
889 unique CDR3  
13 unique J



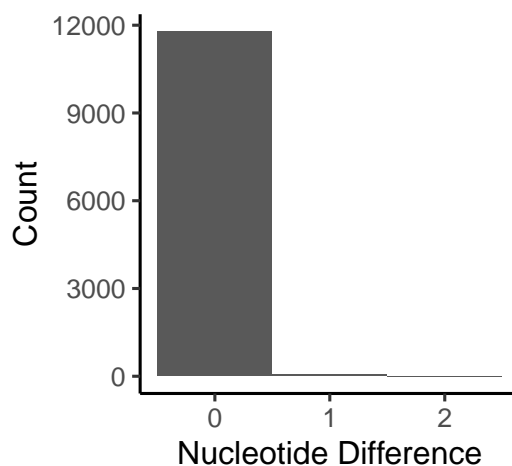
### TRBV7-7\*ap01

1295 sequences assigned  
1289 (99.5%) exact matches, in which:  
1277 unique CDR3  
13 unique J



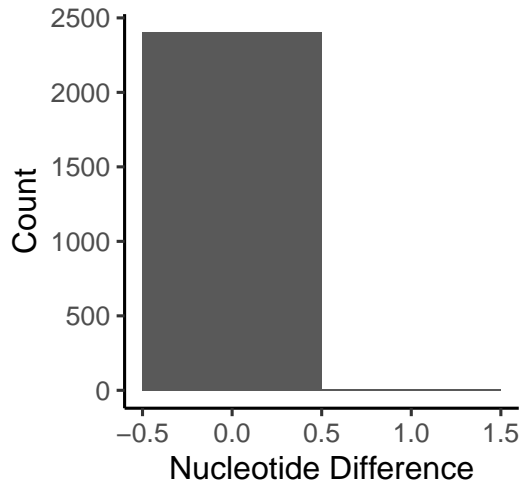
### TRBV7-9\*ap01

11843 sequences assigned  
11786 (99.5%) exact matches, in which:  
11663 unique CDR3  
13 unique J



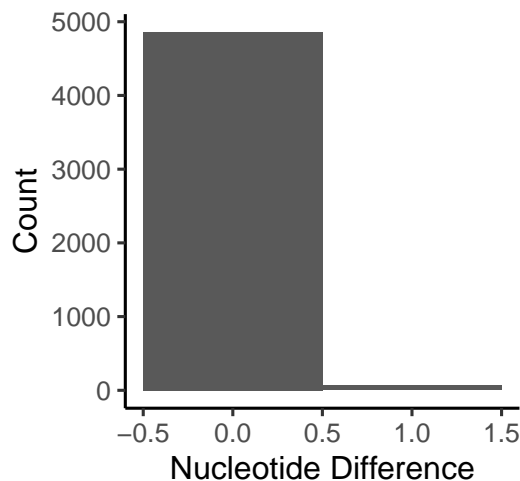
### TRBV7-8\*ap01

2412 sequences assigned  
2405 (99.7%) exact matches, in which:  
2385 unique CDR3  
13 unique J

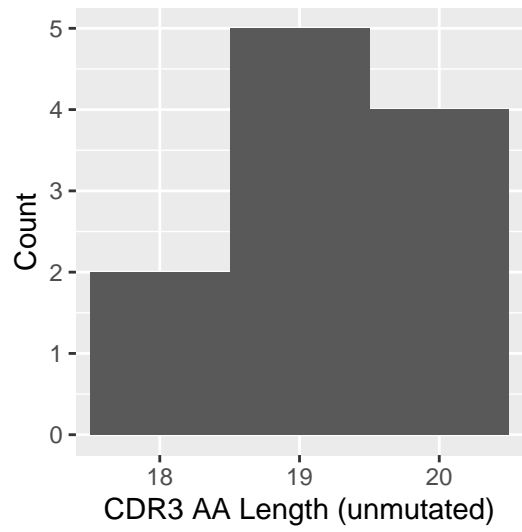


### TRBV29-1\*ap01

4924 sequences assigned  
4860 (98.7%) exact matches, in which:  
4742 unique CDR3  
13 unique J



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[illegible]