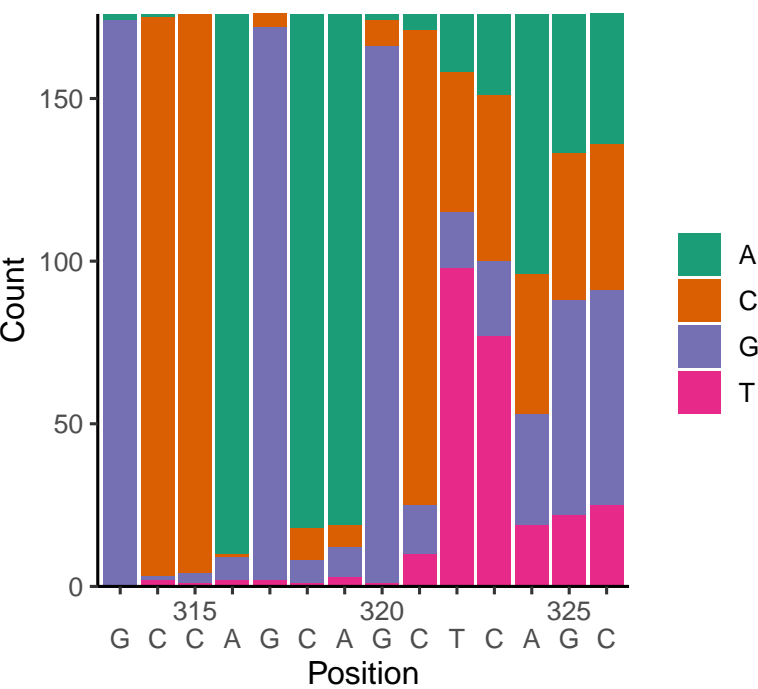
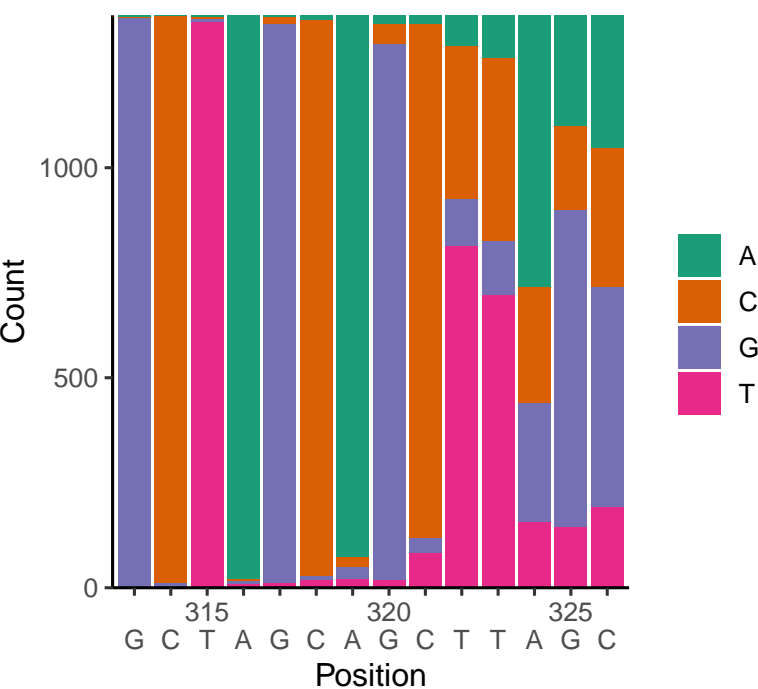


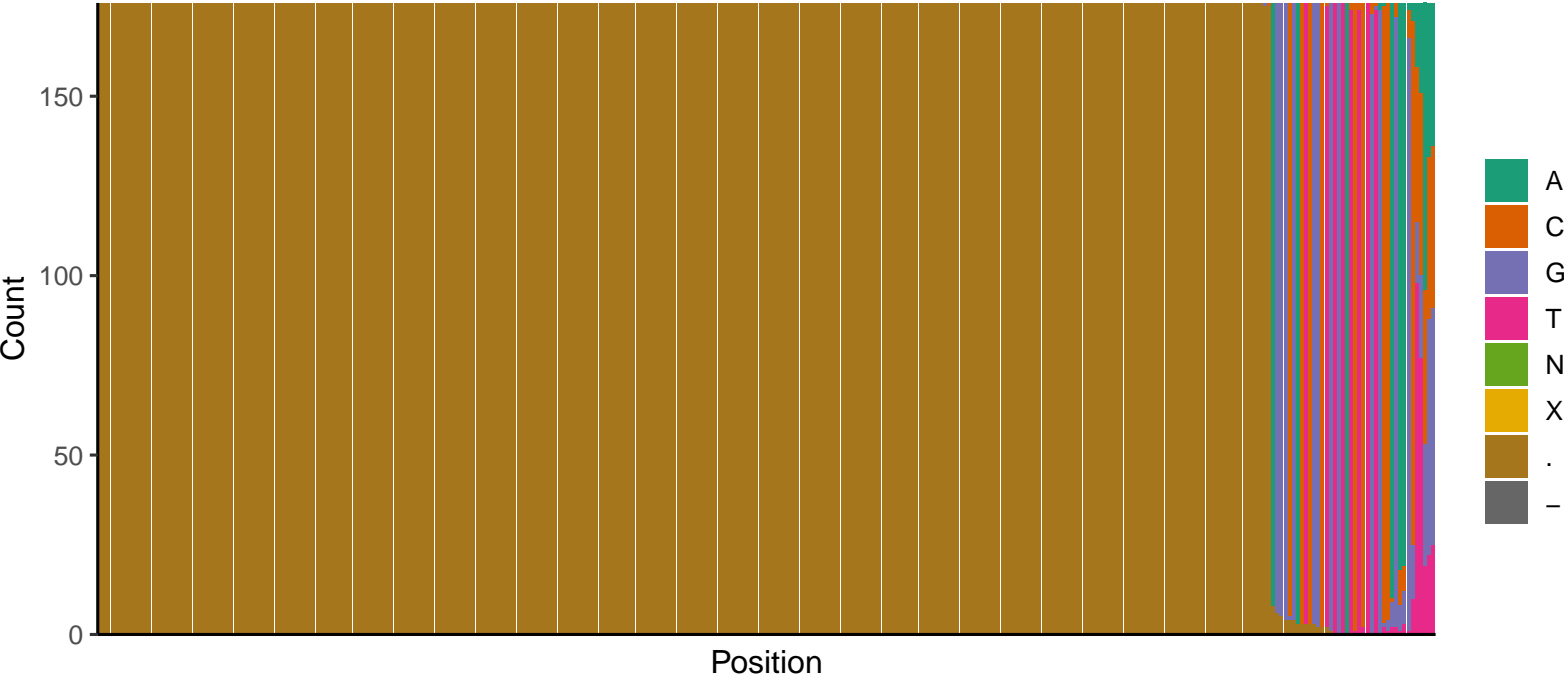
Gene TRBV7-1\*ap01\_G291C\_T296C



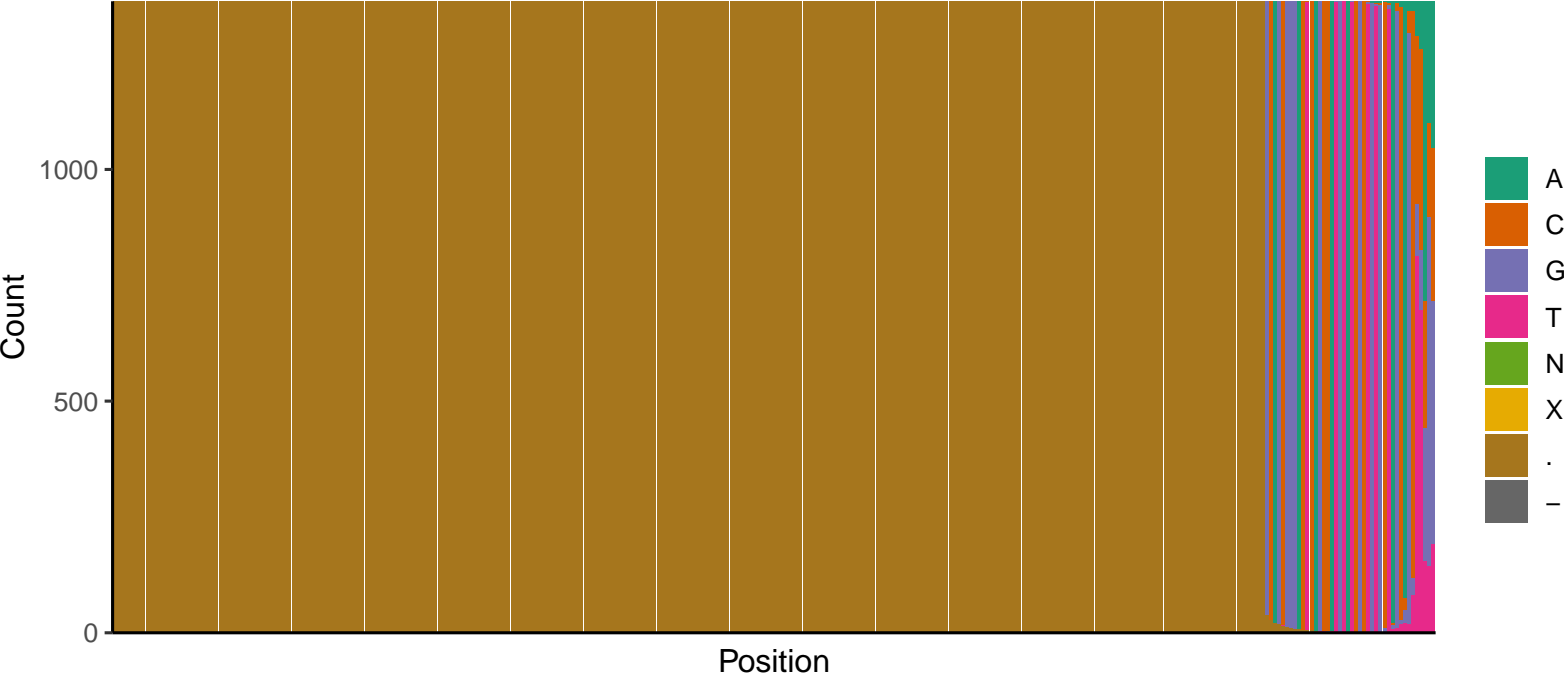
Gene TRBV7-7\*ap01\_C315T



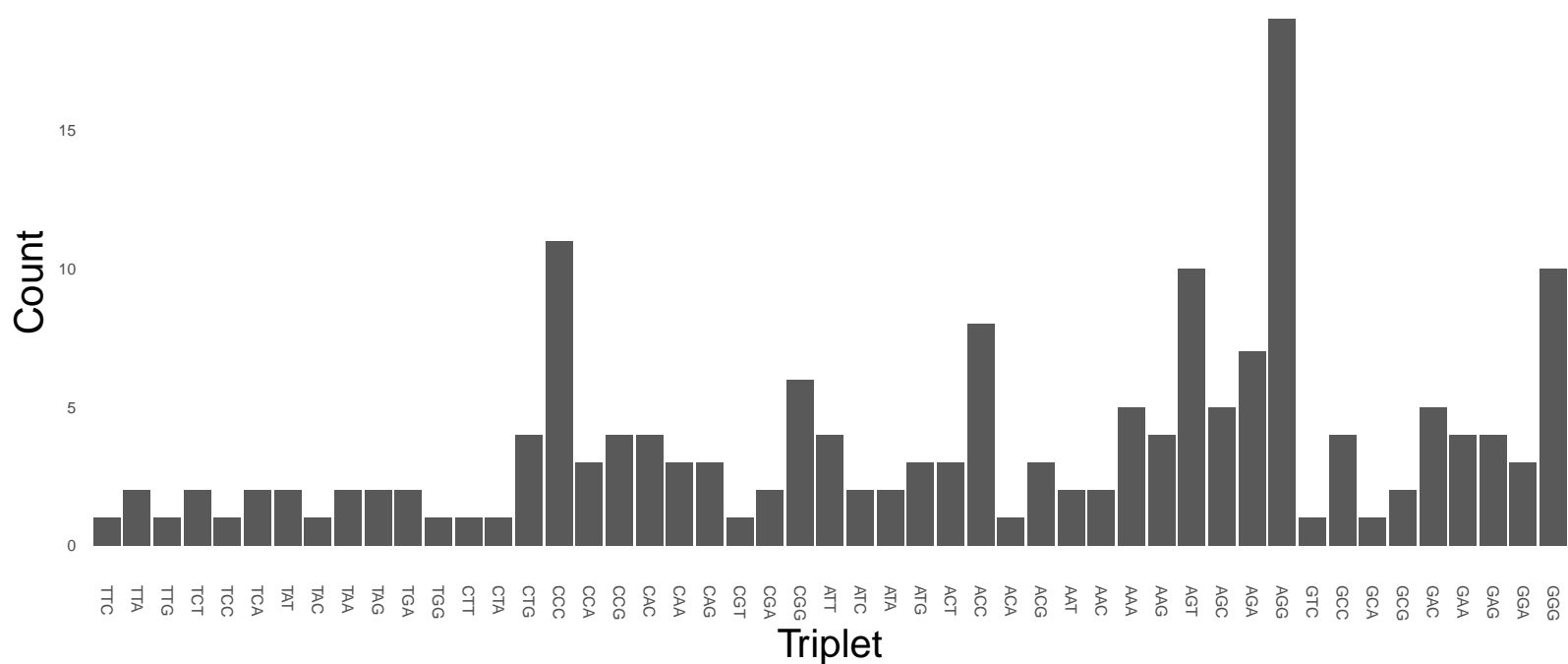
Gene TRBV7-1\*ap01\_G291C\_T296C



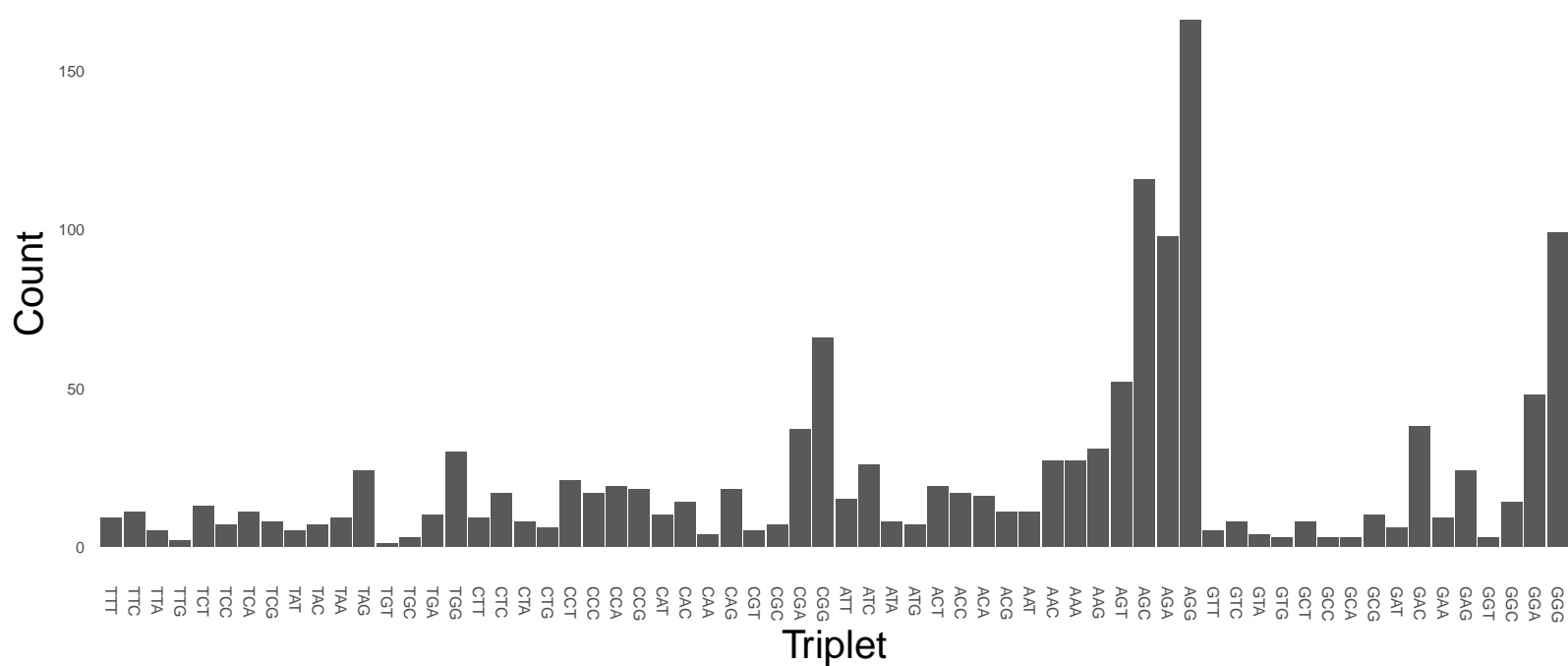
Gene TRBV7-7\*ap01\_C315T



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

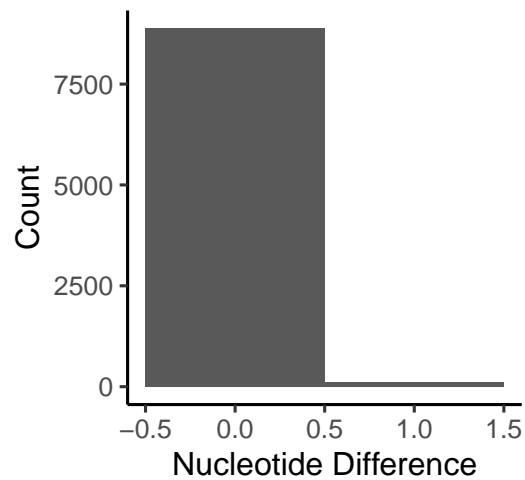


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



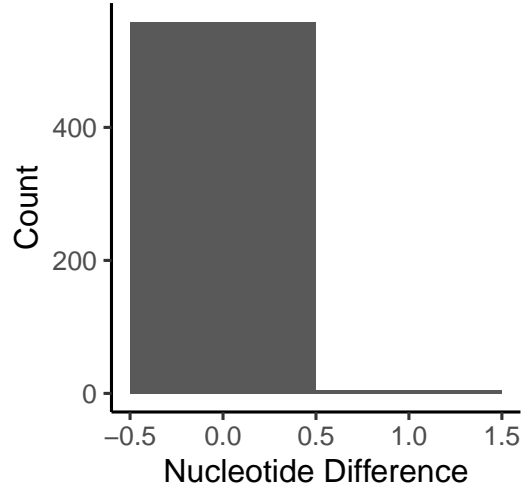
### TRBV20-1\*ap01

8981 sequences assigned  
8880 (98.9%) exact matches, in which:  
8778 unique CDR3  
13 unique J



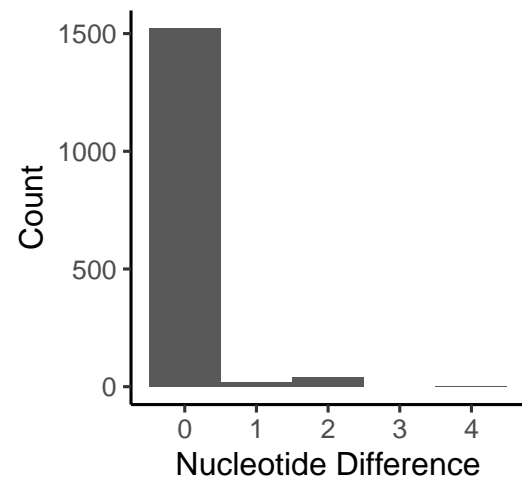
### TRBV10-2\*ap01

564 sequences assigned  
559 (99.1%) exact matches, in which:  
554 unique CDR3  
13 unique J



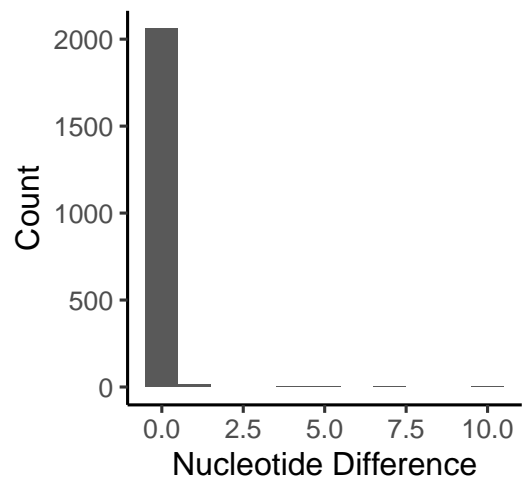
### TRBV13\*ap01

1583 sequences assigned  
1522 (96.1%) exact matches, in which:  
1494 unique CDR3  
13 unique J



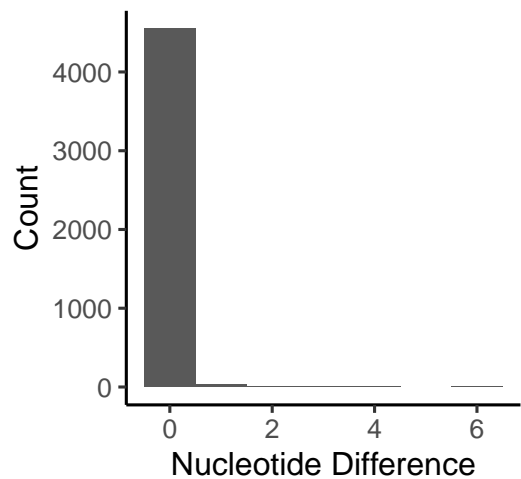
### TRBV10-1\*ap01

2084 sequences assigned  
2060 (98.8%) exact matches, in which:  
2029 unique CDR3  
13 unique J



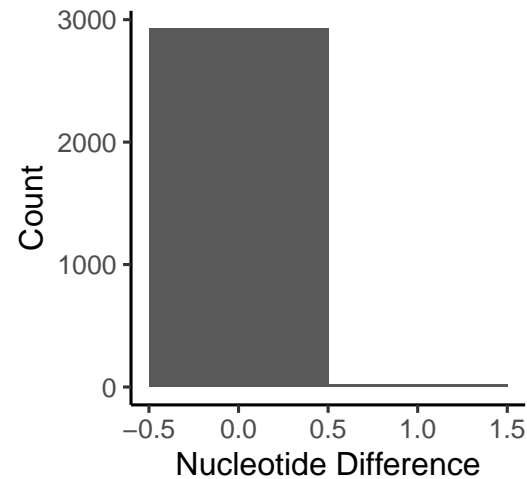
### TRBV10-3\*ap01

4596 sequences assigned  
4549 (99%) exact matches, in which:  
4468 unique CDR3  
13 unique J



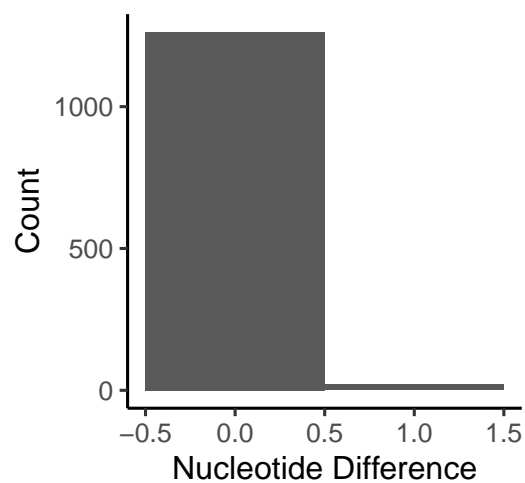
### TRBV14\*ap01

2949 sequences assigned  
2926 (99.2%) exact matches, in which:  
2881 unique CDR3  
13 unique J



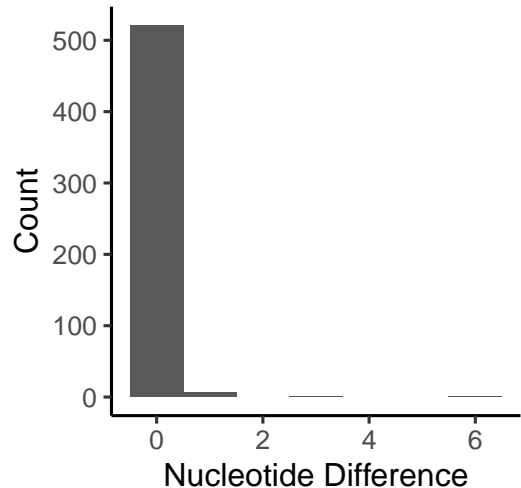
### TRBV20-1\*ap02

1284 sequences assigned  
1263 (98.4%) exact matches, in which:  
1249 unique CDR3  
13 unique J



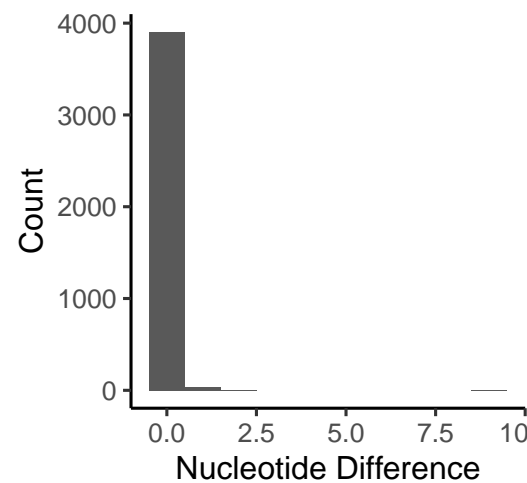
### TRBV1\*ap01

529 sequences assigned  
521 (98.5%) exact matches, in which:  
510 unique CDR3  
13 unique J



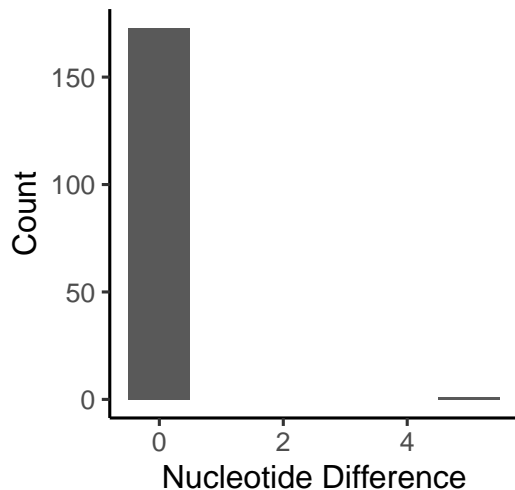
### TRBV15\*ap02

3944 sequences assigned  
3903 (99%) exact matches, in which:  
3825 unique CDR3  
13 unique J



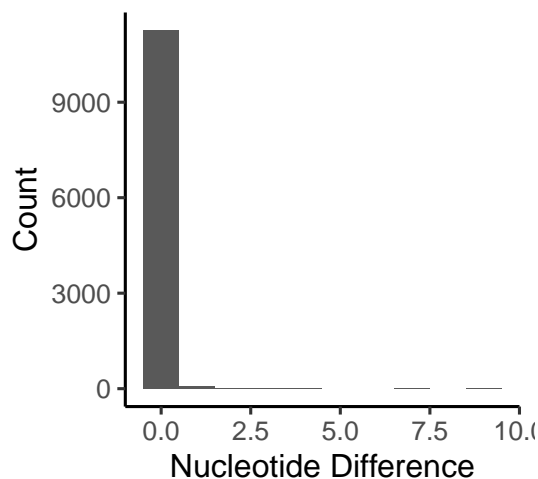
### TRBV16\*ap01

174 sequences assigned  
173 (99.4%) exact matches, in which:  
173 unique CDR3  
12 unique J



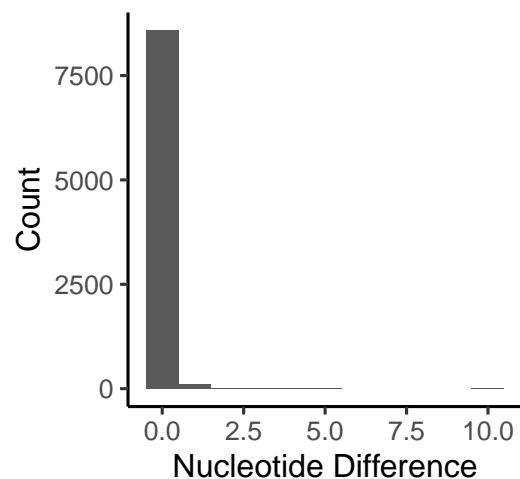
### TRBV19\*ap01

11346 sequences assigned  
11256 (99.2%) exact matches, in which:  
11177 unique CDR3  
13 unique J



### TRBV27\*ap01

8702 sequences assigned  
8582 (98.6%) exact matches, in which:  
8415 unique CDR3  
13 unique J



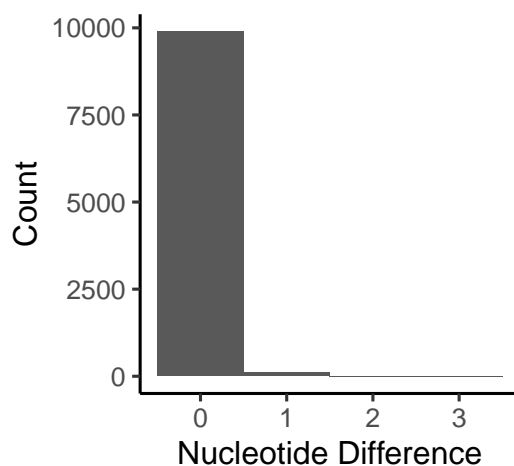
### TRBV17\*ap01

2 sequences assigned  
No exact matches.



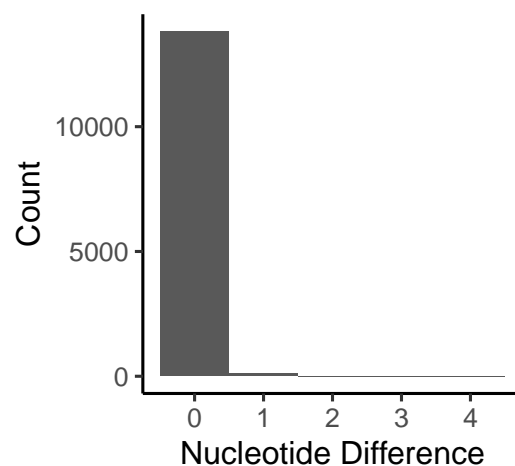
### TRBV2\*ap01

10008 sequences assigned  
9896 (98.9%) exact matches, in which:  
9726 unique CDR3  
13 unique J



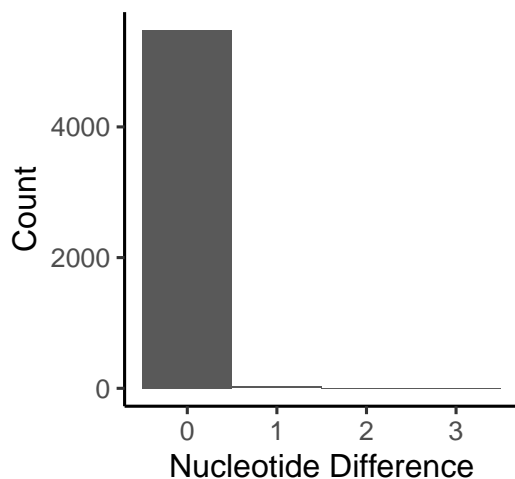
### TRBV28\*ap01

13929 sequences assigned  
13815 (99.2%) exact matches, in which:  
13671 unique CDR3  
13 unique J



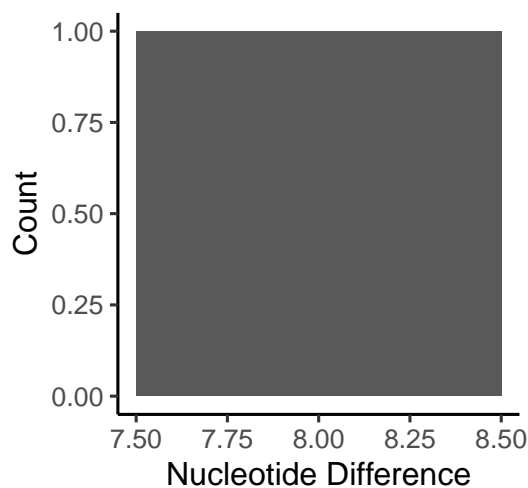
### TRBV18\*ap01

5510 sequences assigned  
5482 (99.5%) exact matches, in which:  
5446 unique CDR3  
13 unique J



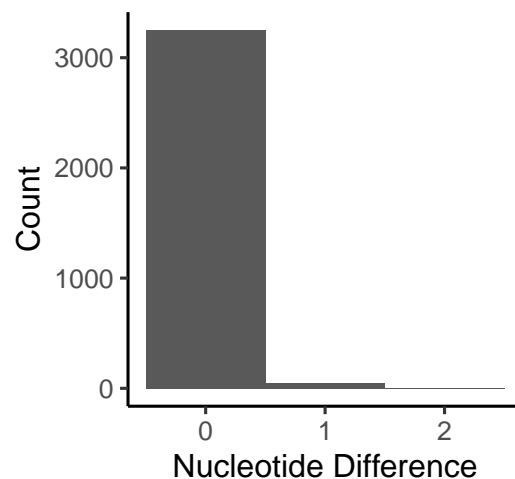
### TRBV26\*ap01

1 sequences assigned  
No exact matches.



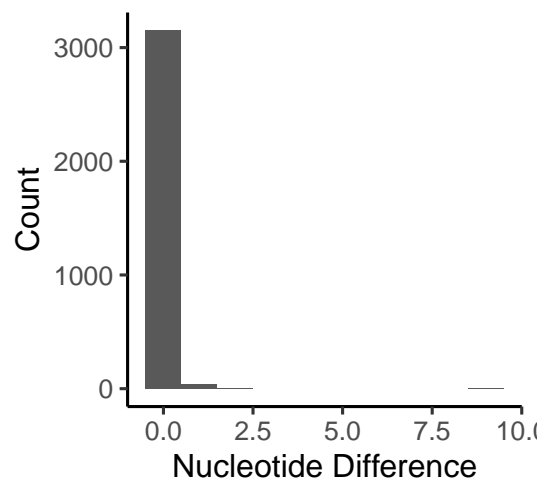
### TRBV30\*ap01

3303 sequences assigned  
3251 (98.4%) exact matches, in which:  
3203 unique CDR3  
13 unique J



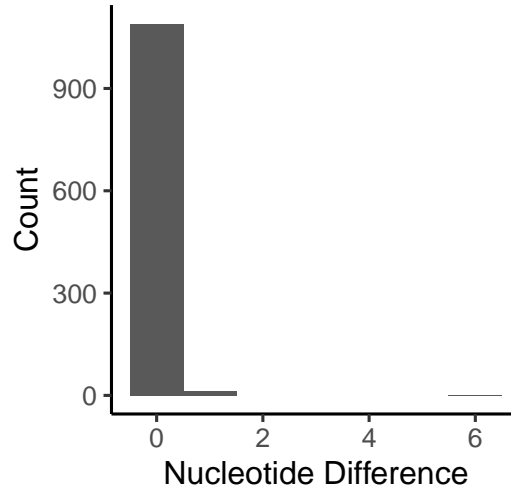
### TRBV30\*ap02

3197 sequences assigned  
3151 (98.6%) exact matches, in which:  
3107 unique CDR3  
13 unique J



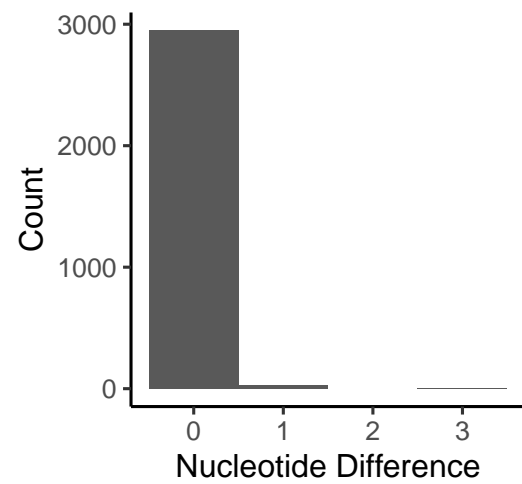
### TRBV11-1\*ap01

1105 sequences assigned  
1090 (98.6%) exact matches, in which:  
1067 unique CDR3  
13 unique J



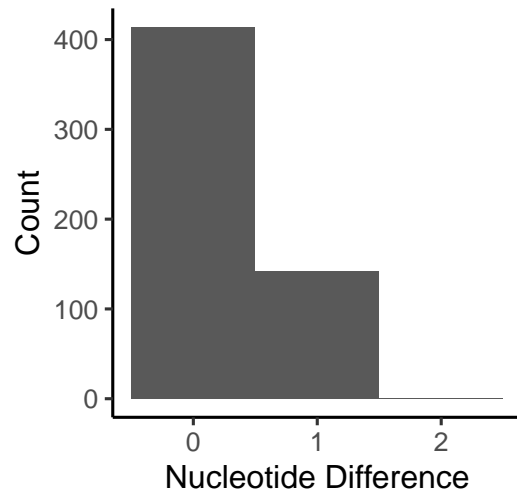
### TRBV11-3\*ap01

2976 sequences assigned  
2949 (99.1%) exact matches, in which:  
2911 unique CDR3  
13 unique J



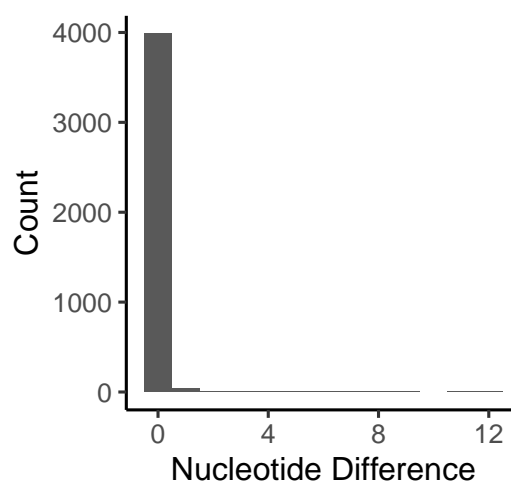
### TRBV30\*ap03

557 sequences assigned  
414 (74.3%) exact matches, in which:  
411 unique CDR3  
13 unique J



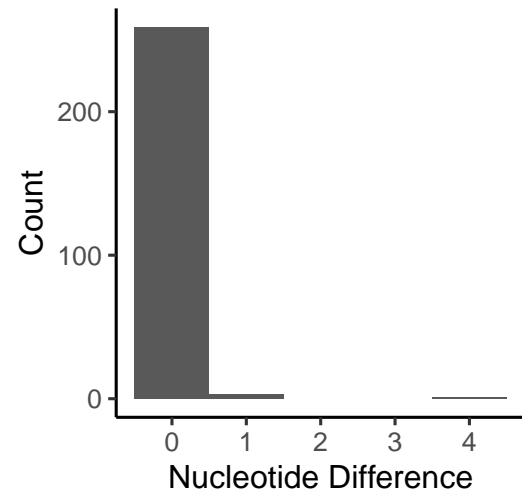
### TRBV21-1\*ap01

4056 sequences assigned  
3986 (98.3%) exact matches, in which:  
3948 unique CDR3  
13 unique J



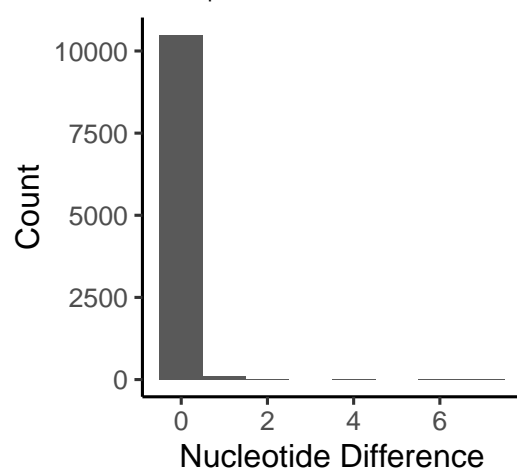
### TRBV12-1\*ap01

263 sequences assigned  
259 (98.5%) exact matches, in which:  
254 unique CDR3  
12 unique J



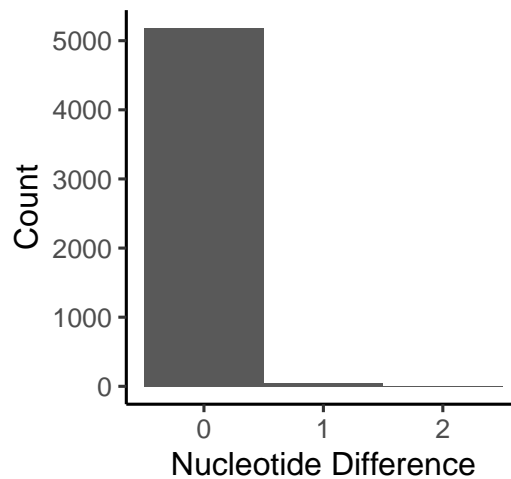
### TRBV9\*ap01

10598 sequences assigned  
10493 (99%) exact matches, in which:  
10369 unique CDR3  
13 unique J



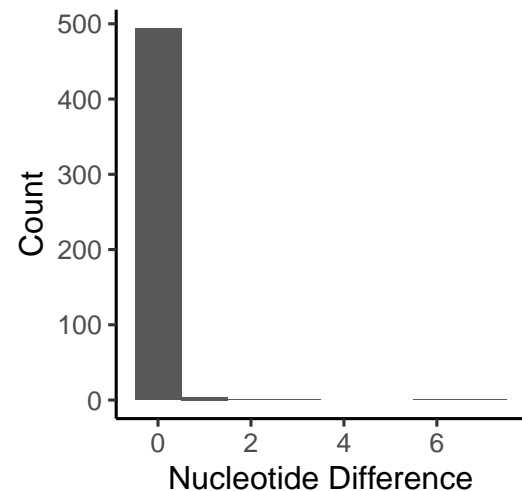
### TRBV11-2\*ap01

5231 sequences assigned  
5183 (99.1%) exact matches, in which:  
5102 unique CDR3  
13 unique J



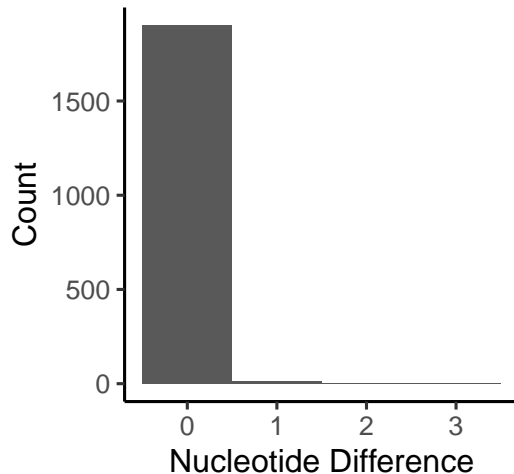
### TRBV12-2\*ap01

502 sequences assigned  
494 (98.4%) exact matches, in which:  
486 unique CDR3  
13 unique J



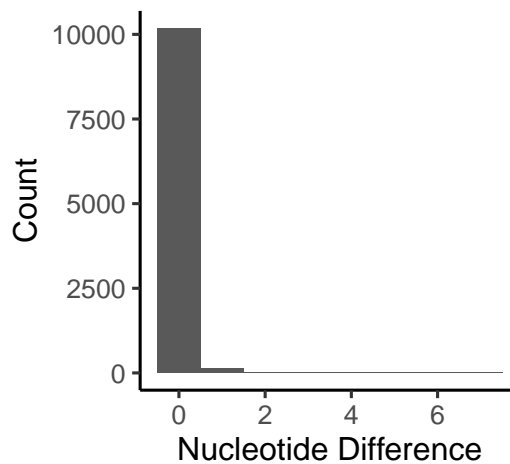
### TRBV12-5\*ap01

1916 sequences assigned  
1901 (99.2%) exact matches, in which:  
1871 unique CDR3  
13 unique J



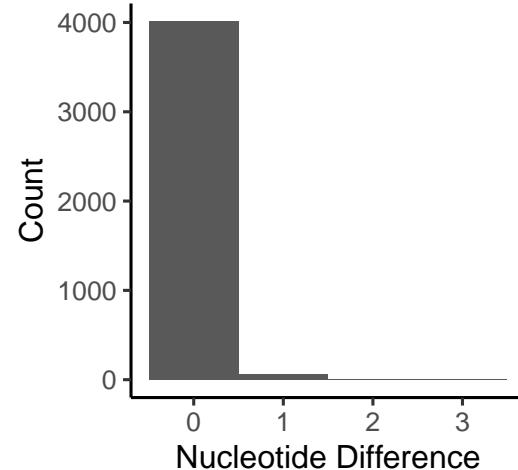
### TRBV3-12\*ap01

10332 sequences assigned  
10184 (98.6%) exact matches, in which:  
9987 unique CDR3  
13 unique J



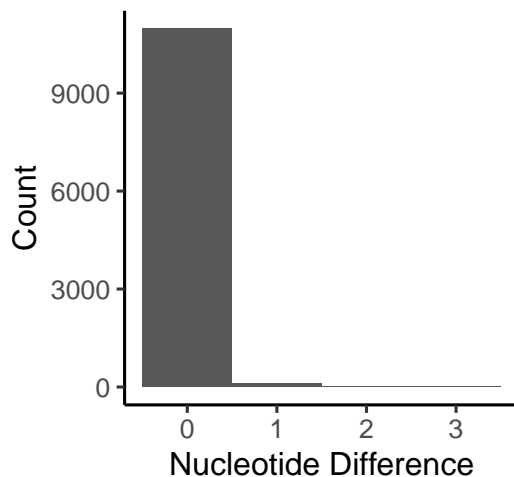
### TRBV4-2\*ap01

4071 sequences assigned  
4012 (98.6%) exact matches, in which:  
3940 unique CDR3  
13 unique J



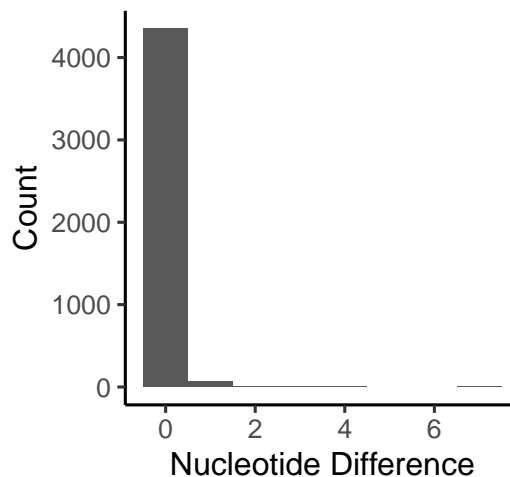
### TRBV12-34\*ap01

11102 sequences assigned  
10972 (98.8%) exact matches, in which:  
10829 unique CDR3  
13 unique J



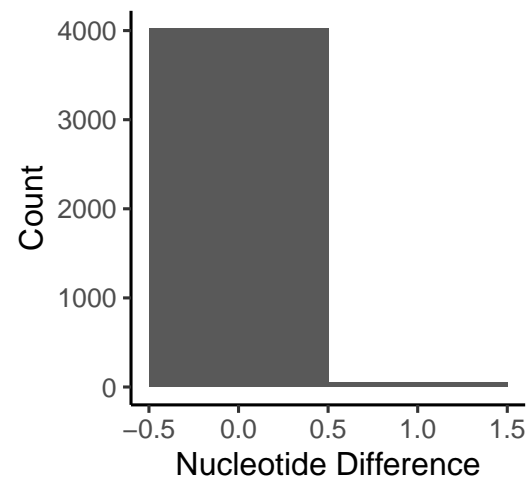
### TRBV4-1\*ap01

4422 sequences assigned  
4350 (98.4%) exact matches, in which:  
4262 unique CDR3  
13 unique J



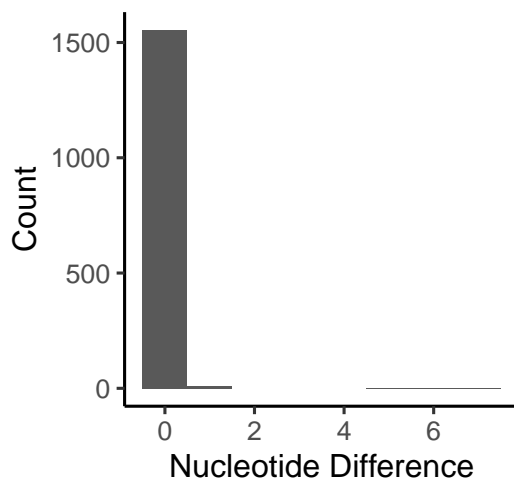
### TRBV4-3\*ap01

4067 sequences assigned  
4021 (98.9%) exact matches, in which:  
3955 unique CDR3  
13 unique J



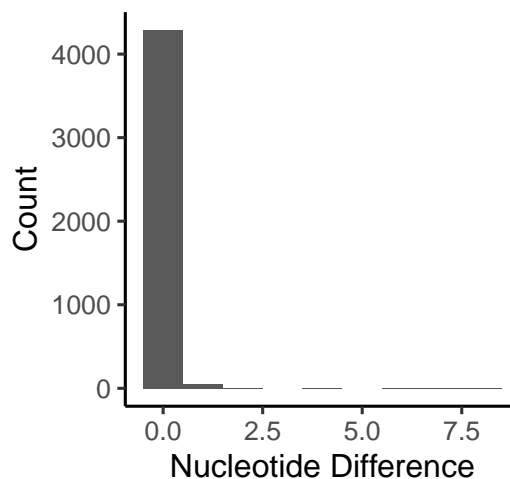
### TRBV23-1\*ap01

1567 sequences assigned  
1554 (99.2%) exact matches, in which:  
1533 unique CDR3  
13 unique J



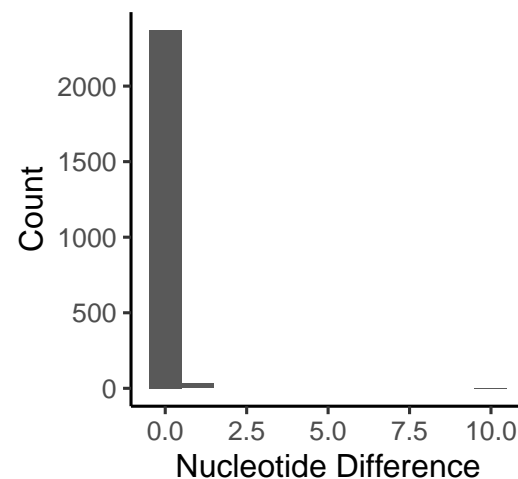
### TRBV24-1\*ap01

4349 sequences assigned  
4288 (98.6%) exact matches, in which:  
4212 unique CDR3  
13 unique J



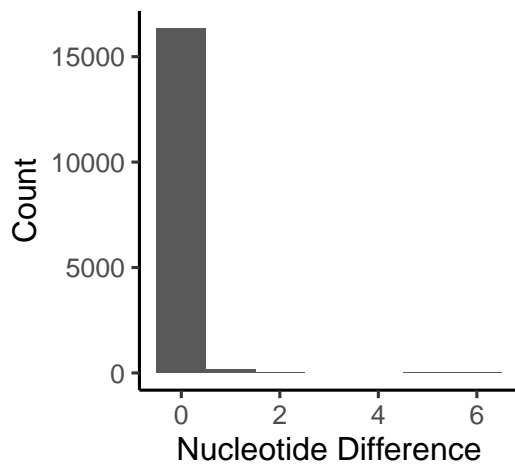
### TRBV25-1\*ap01

2405 sequences assigned  
2371 (98.6%) exact matches, in which:  
2328 unique CDR3  
13 unique J



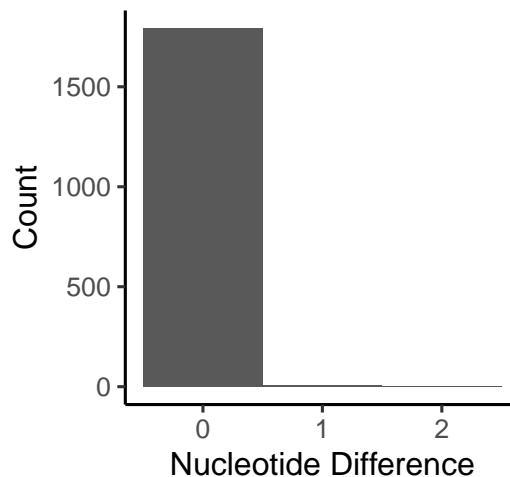
### TRBV5-1\*ap01

16526 sequences assigned  
16352 (98.9%) exact matches, in which:  
16023 unique CDR3  
13 unique J



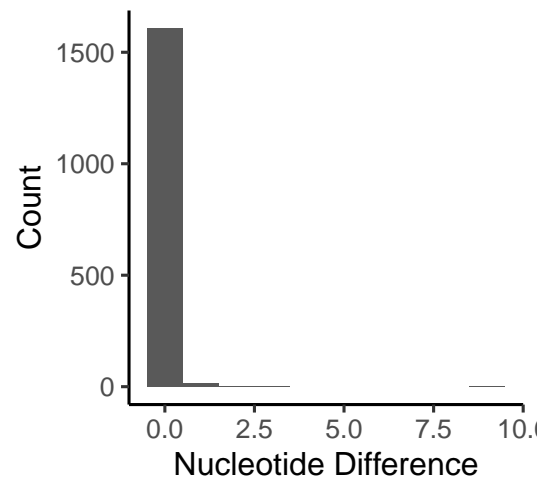
### TRBV5-5\*ap01

1802 sequences assigned  
1792 (99.4%) exact matches, in which:  
1777 unique CDR3  
13 unique J



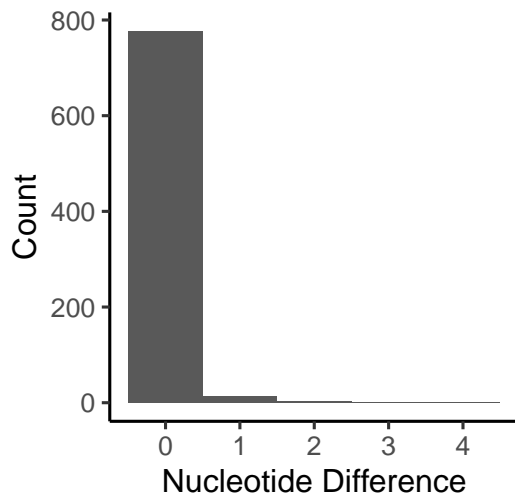
### TRBV5-8\*ap01

1627 sequences assigned  
1607 (98.8%) exact matches, in which:  
1586 unique CDR3  
13 unique J



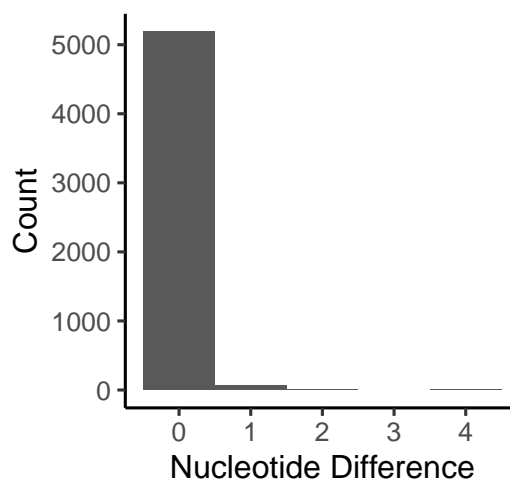
### TRBV5-3\*ap01

795 sequences assigned  
777 (97.7%) exact matches, in which:  
770 unique CDR3  
13 unique J



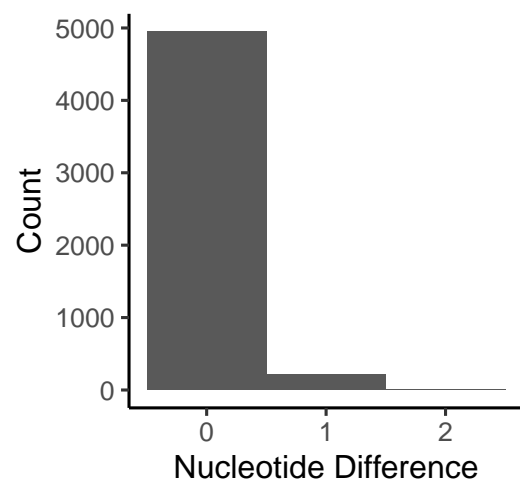
### TRBV5-6\*ap01

5260 sequences assigned  
5188 (98.6%) exact matches, in which:  
5059 unique CDR3  
13 unique J



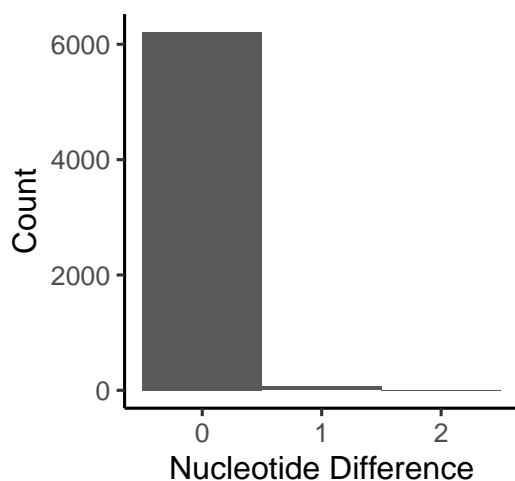
### TRBV6-1\*ap01

5163 sequences assigned  
4948 (95.8%) exact matches, in which:  
4856 unique CDR3  
13 unique J



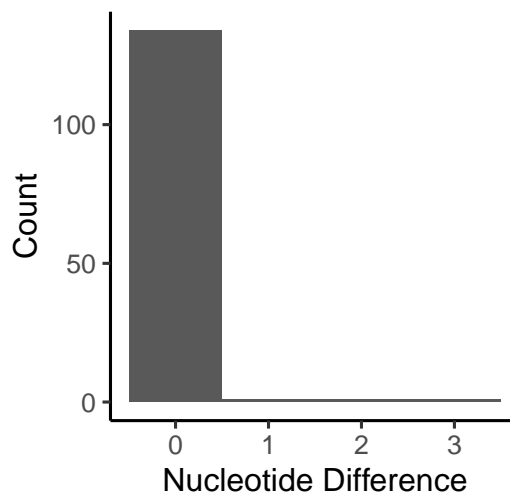
### TRBV5-4\*ap01

6280 sequences assigned  
6212 (98.9%) exact matches, in which:  
6103 unique CDR3  
13 unique J



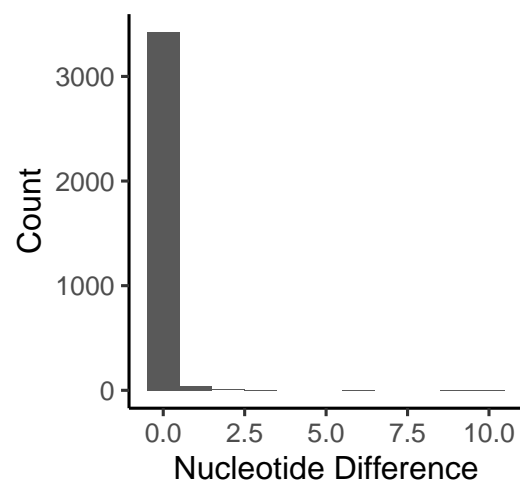
### TRBV5-7\*ap01

137 sequences assigned  
134 (97.8%) exact matches, in which:  
131 unique CDR3  
13 unique J



### TRBV6-4\*ap01

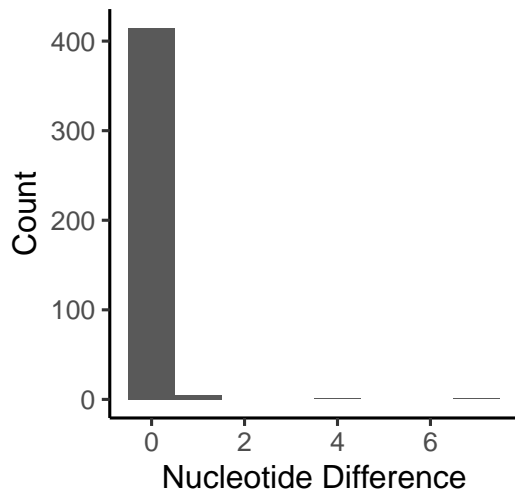
3481 sequences assigned  
3424 (98.4%) exact matches, in which:  
3372 unique CDR3  
13 unique J





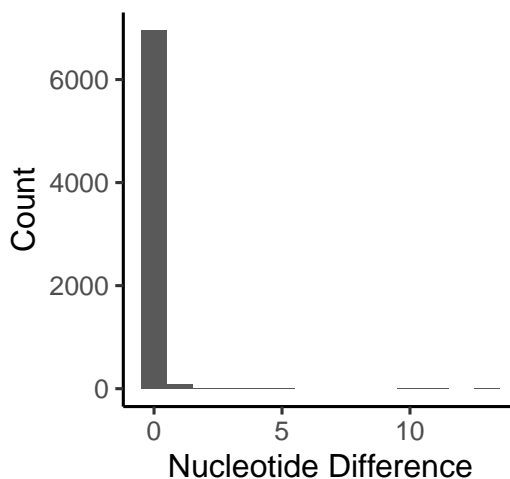
### TRBV6-7\*ap01

422 sequences assigned  
415 (98.3%) exact matches, in which:  
404 unique CDR3  
13 unique J



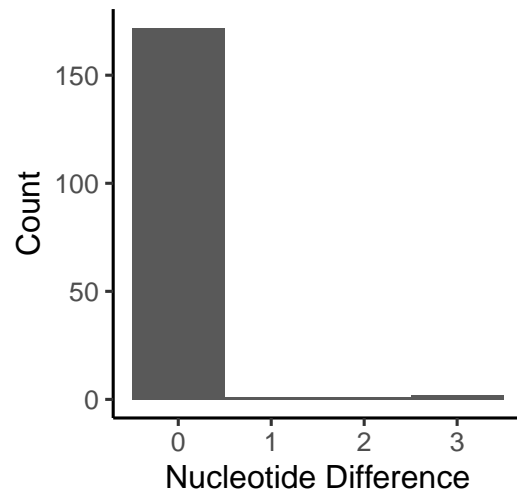
### TRBV6-23\*ap01

7050 sequences assigned  
6954 (98.6%) exact matches, in which:  
6812 unique CDR3  
13 unique J



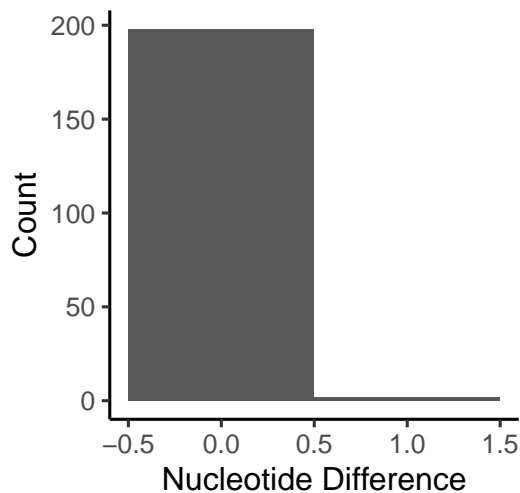
### TRBV7-1\*ap01\_G291C\_1

176 sequences assigned  
172 (97.7%) exact matches, in which:  
170 unique CDR3  
13 unique J



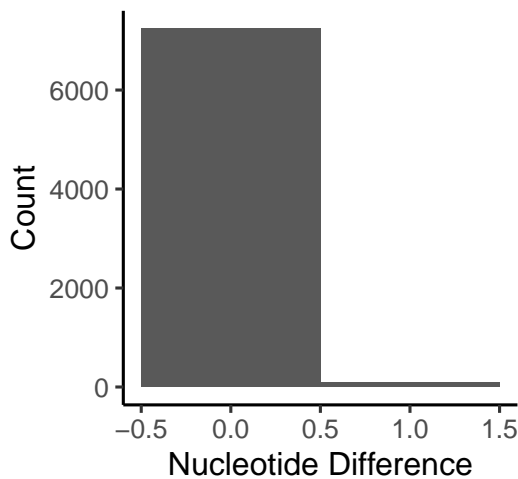
### TRBV6-8\*ap01

200 sequences assigned  
198 (99%) exact matches, in which:  
195 unique CDR3  
13 unique J



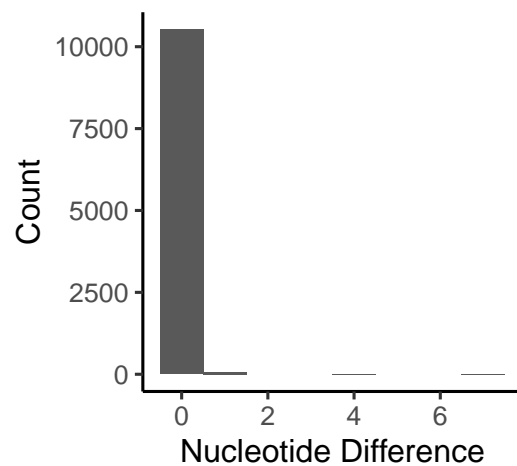
### TRBV6-56\*ap01

7334 sequences assigned  
7239 (98.7%) exact matches, in which:  
7112 unique CDR3  
13 unique J



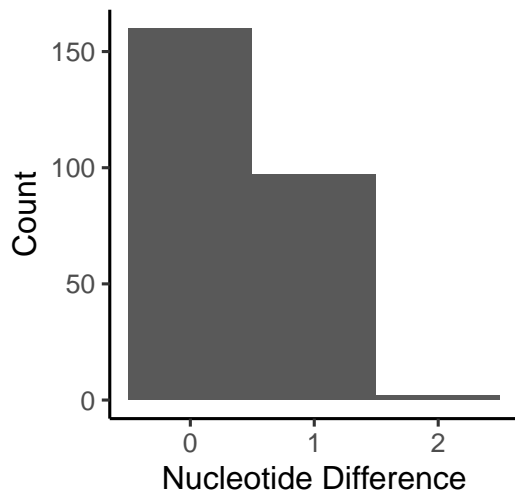
### TRBV7-2\*ap01

10600 sequences assigned  
10526 (99.3%) exact matches, in which:  
10424 unique CDR3  
13 unique J



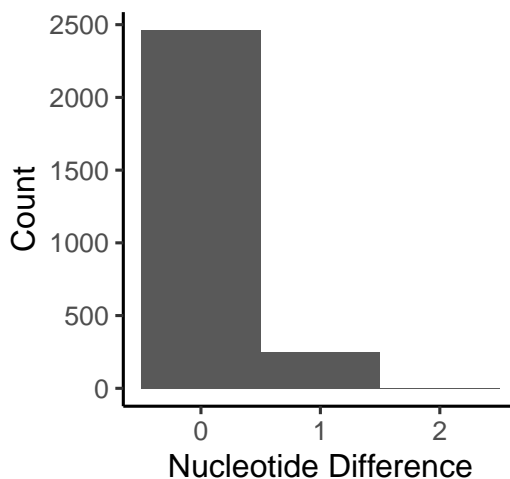
### TRBV6-9\*ap01

259 sequences assigned  
160 (61.8%) exact matches, in which:  
157 unique CDR3  
12 unique J



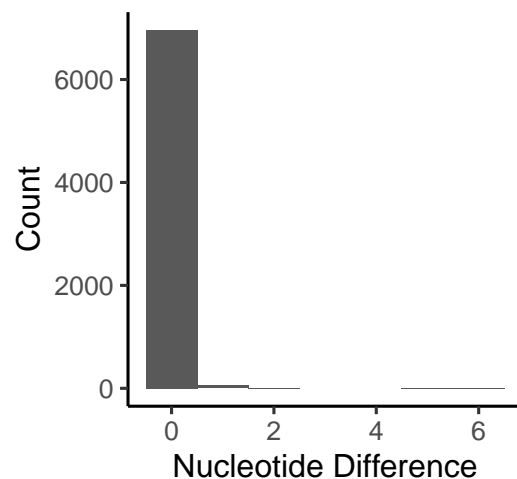
### TRBV6-56\*ap02

2716 sequences assigned  
2463 (90.7%) exact matches, in which:  
2403 unique CDR3  
13 unique J



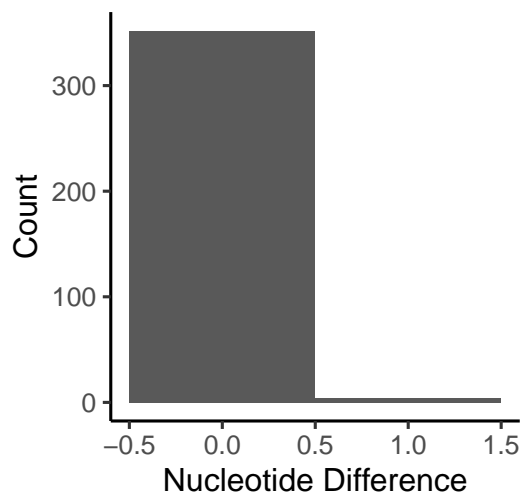
### TRBV7-3\*ap01

7020 sequences assigned  
6961 (99.2%) exact matches, in which:  
6882 unique CDR3  
13 unique J



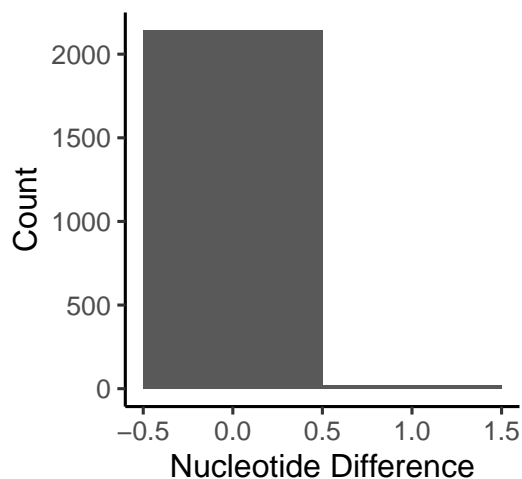
### TRBV7-4\*ap01

356 sequences assigned  
352 (98.9%) exact matches, in which:  
340 unique CDR3  
13 unique J



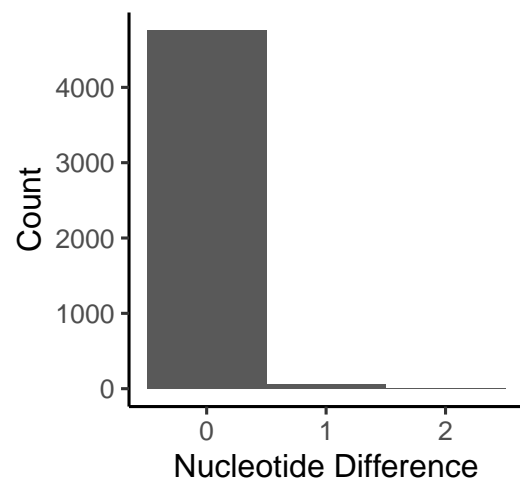
### TRBV7-8\*ap01

2162 sequences assigned  
2142 (99.1%) exact matches, in which:  
2109 unique CDR3  
13 unique J



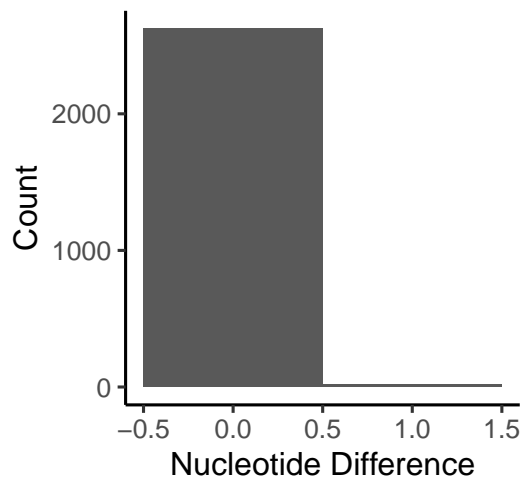
### TRBV29-1\*ap01

4819 sequences assigned  
4756 (98.7%) exact matches, in which:  
4662 unique CDR3  
13 unique J



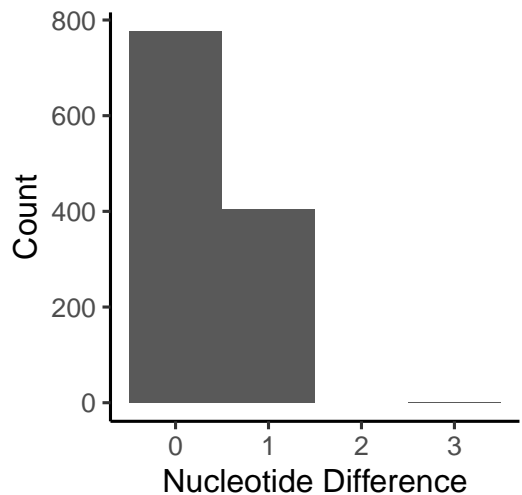
### TRBV7-6\*ap01

2642 sequences assigned  
2623 (99.3%) exact matches, in which:  
2584 unique CDR3  
13 unique J



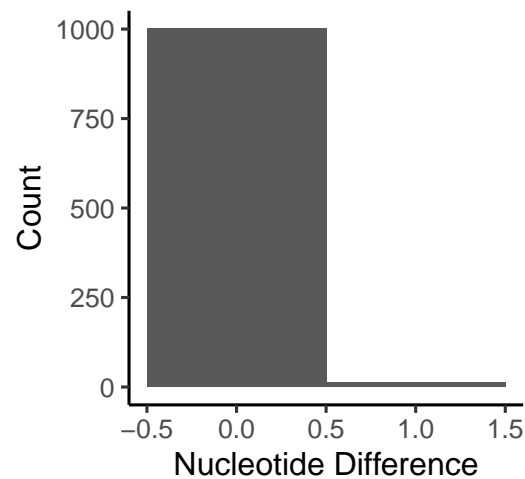
### TRBV7-8\*ap03

1182 sequences assigned  
777 (65.7%) exact matches, in which:  
767 unique CDR3  
13 unique J



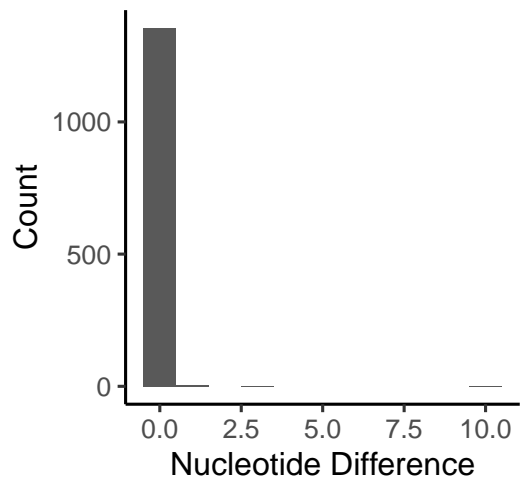
### TRBV29-1\*ap02

1014 sequences assigned  
1001 (98.7%) exact matches, in which:  
985 unique CDR3  
13 unique J



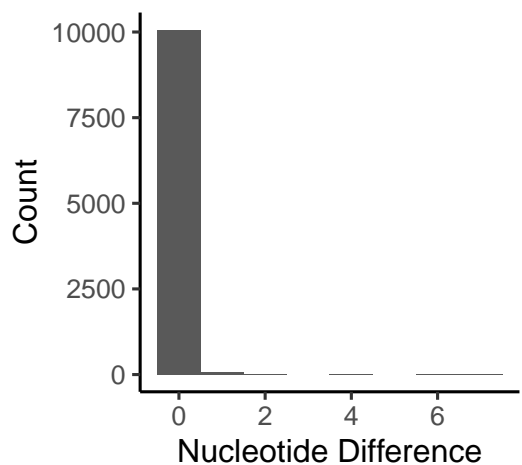
### TRBV7-7\*ap01\_C315T

1363 sequences assigned  
1355 (99.4%) exact matches, in which:  
1336 unique CDR3  
13 unique J

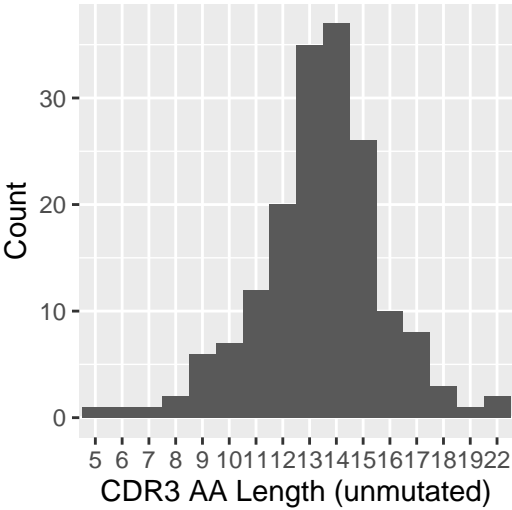


### TRBV7-9\*ap01

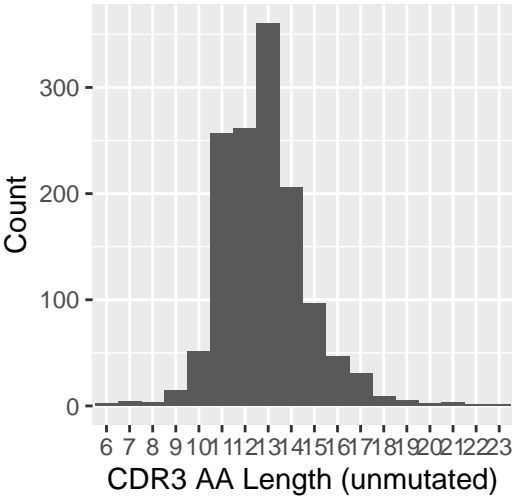
10152 sequences assigned  
10065 (99.1%) exact matches, in which:  
9935 unique CDR3  
13 unique J



TRBV7-1\*ap01\_G291C\_T296C



TRBV7-7\*ap01\_C315T





[illegible]