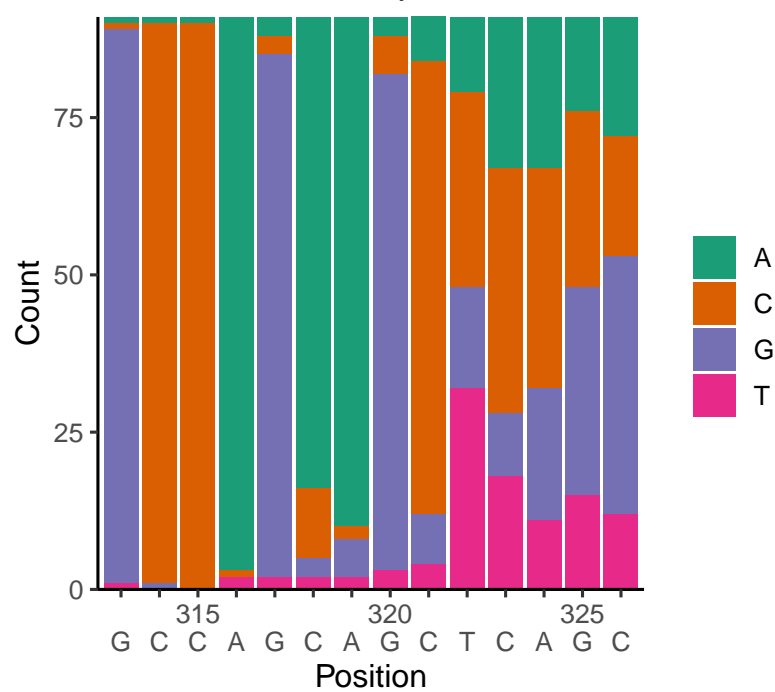
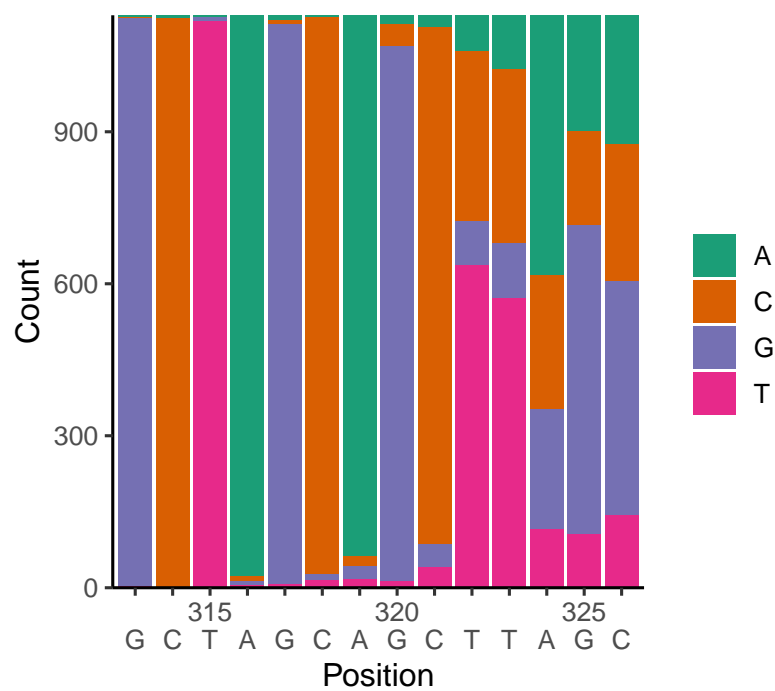


Gene TRBV7-1\*ap01\_T296C

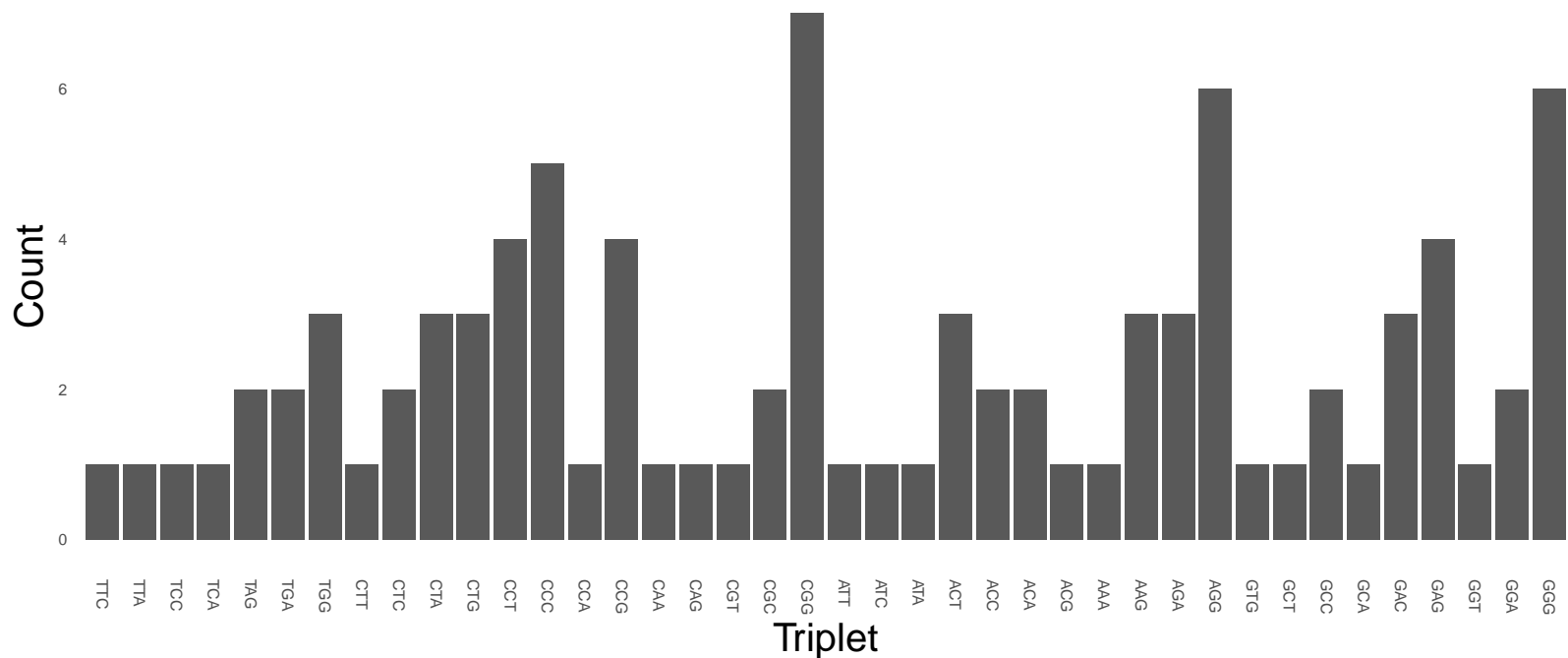


Gene TRBV7-7\*ap01\_C315T

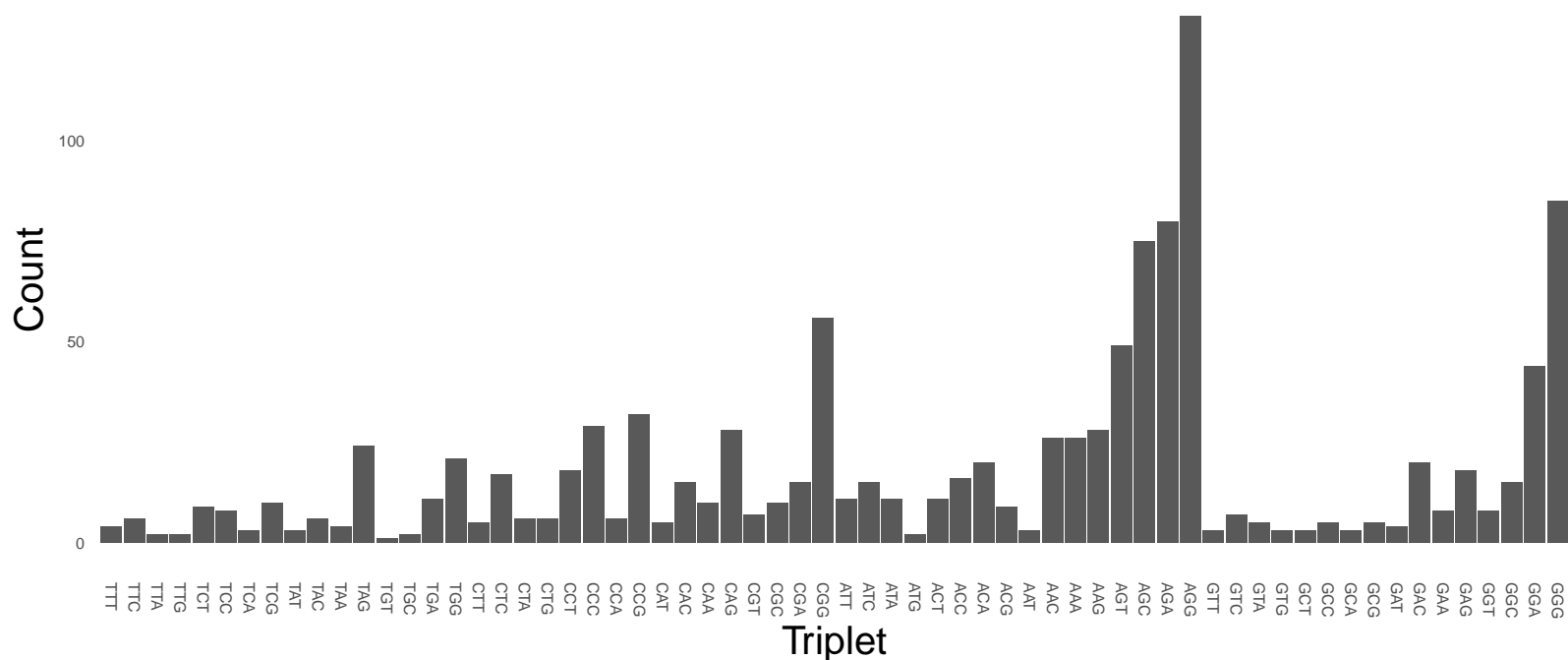




TRBV7-1\*ap01\_T296C- Final 3 nucleotides as a triplet

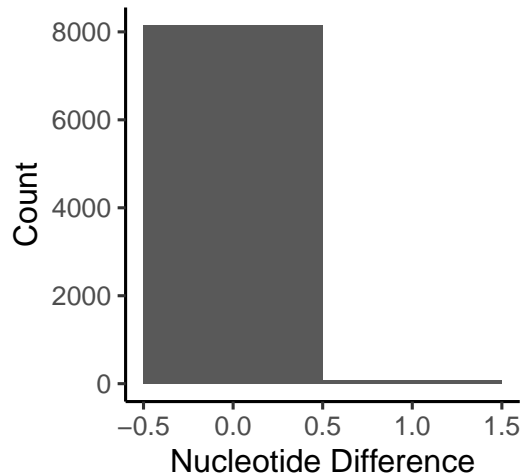


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



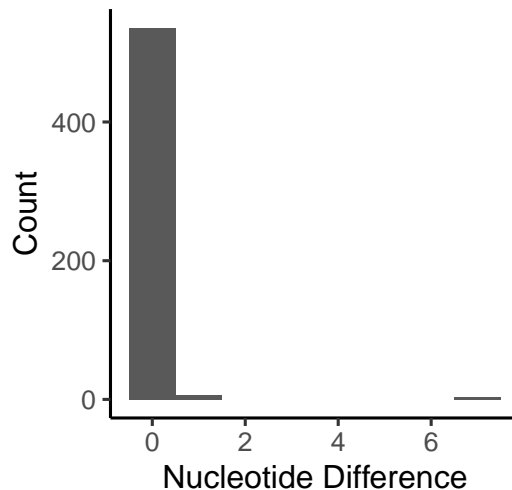
### TRBV20-1\*ap01

8218 sequences assigned  
8147 (99.1%) exact matches, in which:  
8062 unique CDR3  
14 unique J



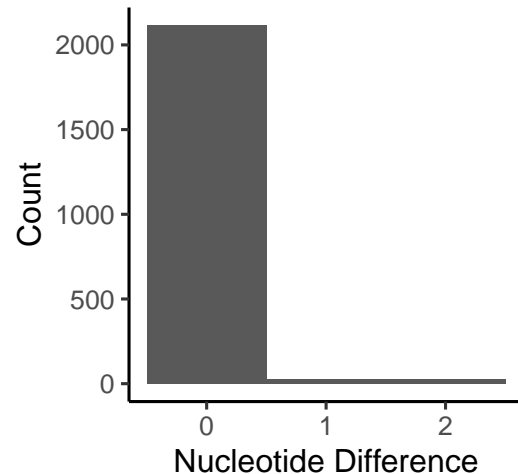
### TRBV10-2\*ap01

545 sequences assigned  
536 (98.3%) exact matches, in which:  
531 unique CDR3  
13 unique J



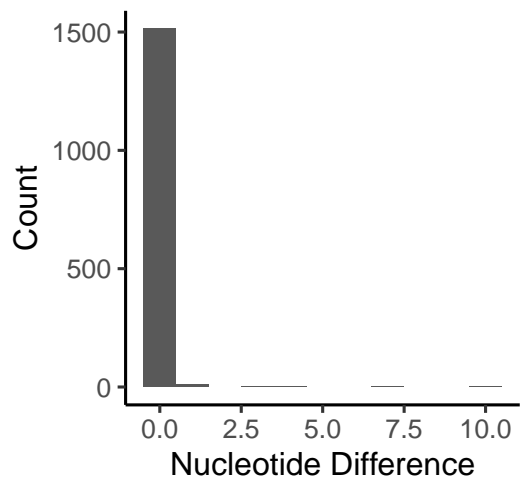
### TRBV13\*ap01

2172 sequences assigned  
2115 (97.4%) exact matches, in which:  
2078 unique CDR3  
13 unique J



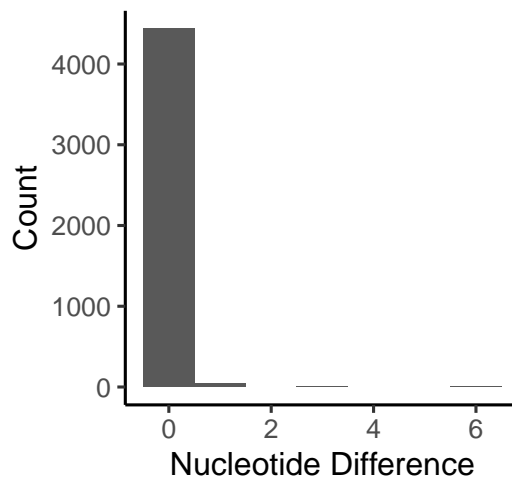
### TRBV10-1\*ap01

1531 sequences assigned  
1514 (98.9%) exact matches, in which:  
1498 unique CDR3  
13 unique J



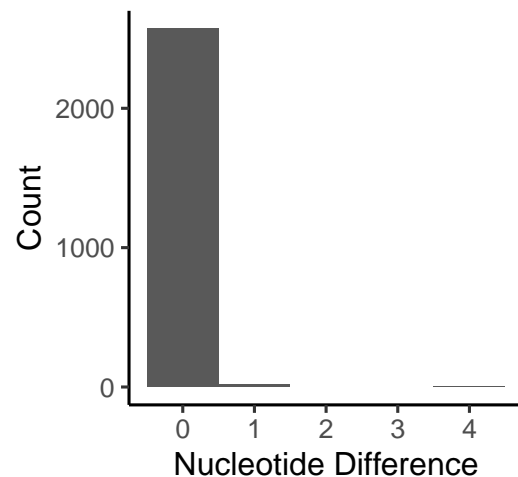
### TRBV10-3\*ap01

4485 sequences assigned  
4437 (98.9%) exact matches, in which:  
4400 unique CDR3  
13 unique J



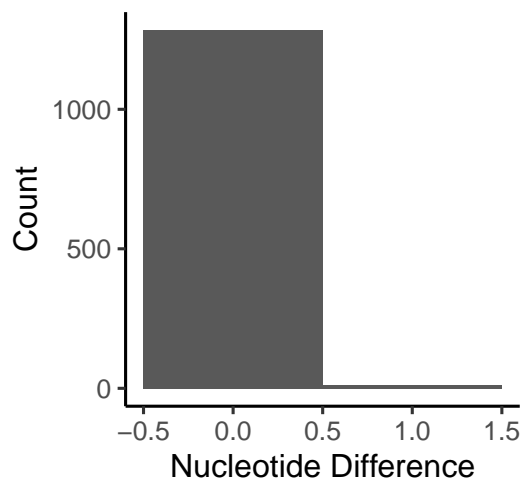
### TRBV14\*ap01

2592 sequences assigned  
2571 (99.2%) exact matches, in which:  
2550 unique CDR3  
13 unique J



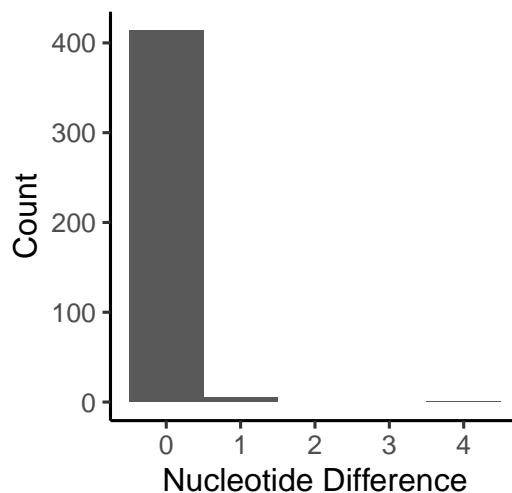
### TRBV20-1\*ap02

1296 sequences assigned  
1284 (99.1%) exact matches, in which:  
1271 unique CDR3  
13 unique J



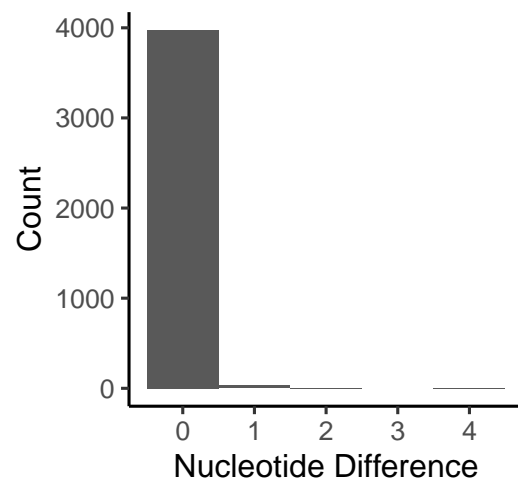
### TRBV1\*ap01

420 sequences assigned  
414 (98.6%) exact matches, in which:  
405 unique CDR3  
13 unique J



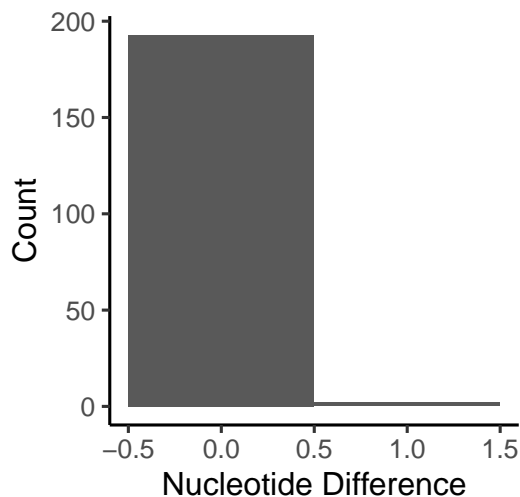
### TRBV15\*ap02

4008 sequences assigned  
3975 (99.2%) exact matches, in which:  
3909 unique CDR3  
13 unique J



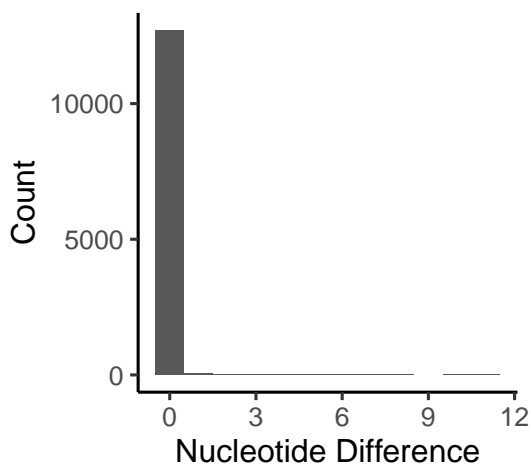
### TRBV16\*ap01

195 sequences assigned  
193 (99%) exact matches, in which:  
193 unique CDR3  
13 unique J



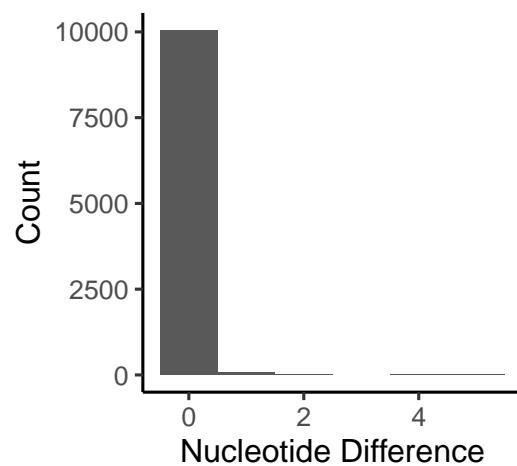
### TRBV19\*ap01

12795 sequences assigned  
12707 (99.3%) exact matches, in which:  
12624 unique CDR3  
13 unique J



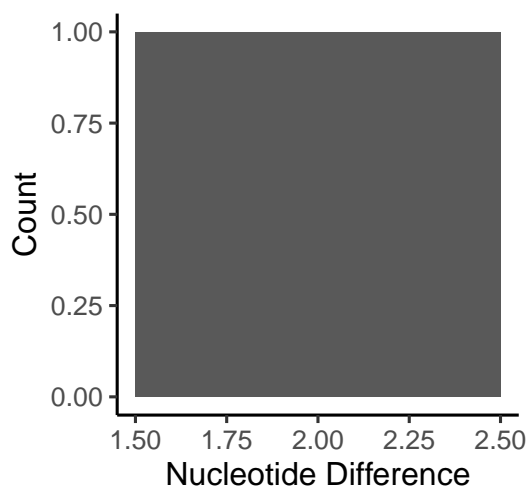
### TRBV27\*ap01

10142 sequences assigned  
10051 (99.1%) exact matches, in which:  
9933 unique CDR3  
14 unique J



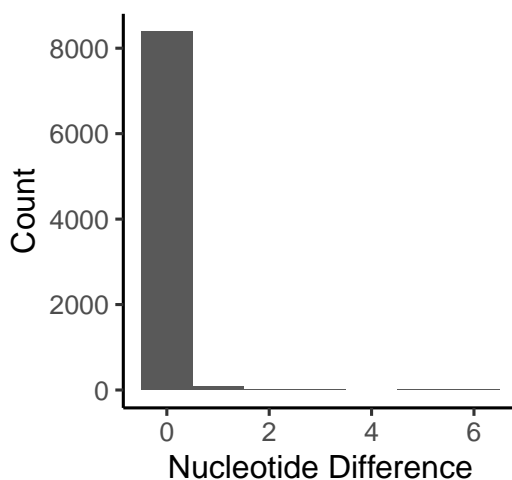
### TRBV17\*ap01

1 sequences assigned  
No exact matches.



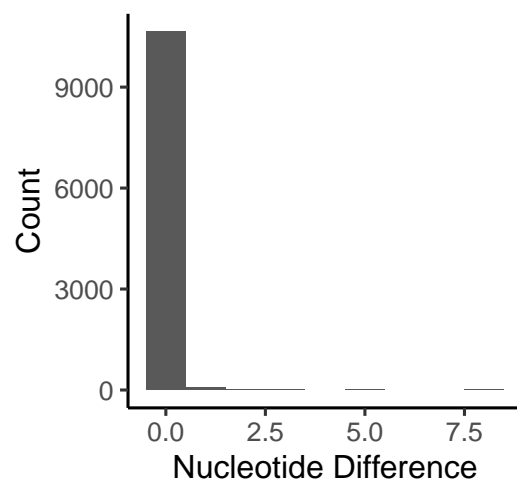
### TRBV2\*ap01

8473 sequences assigned  
8386 (99%) exact matches, in which:  
8281 unique CDR3  
13 unique J



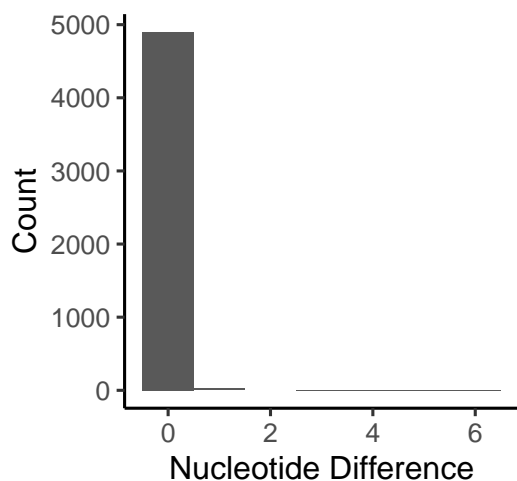
### TRBV28\*ap01

10714 sequences assigned  
10646 (99.4%) exact matches, in which:  
10554 unique CDR3  
13 unique J



### TRBV18\*ap01

4927 sequences assigned  
4899 (99.4%) exact matches, in which:  
4870 unique CDR3  
13 unique J



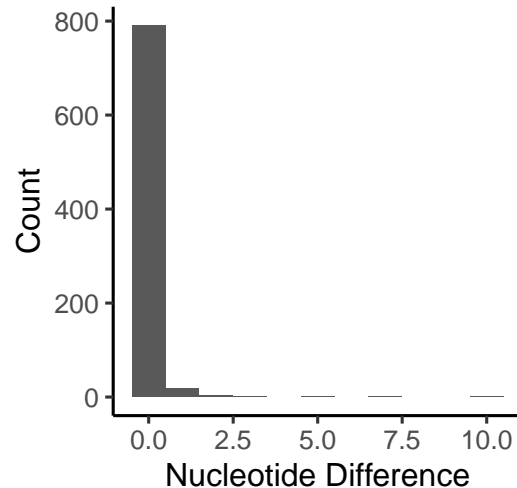
### TRBV26\*ap01

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



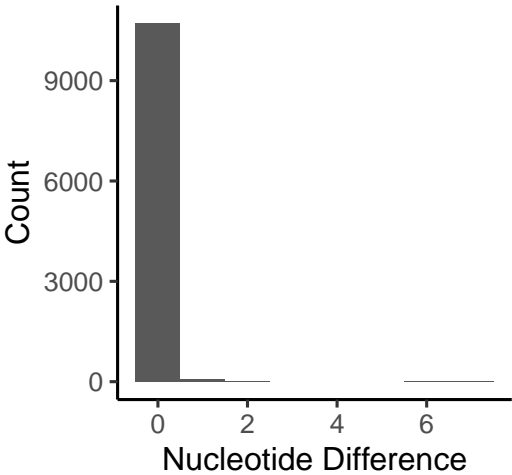
### TRBV30\*ap02

819 sequences assigned  
791 (96.6%) exact matches, in which:  
760 unique CDR3  
13 unique J



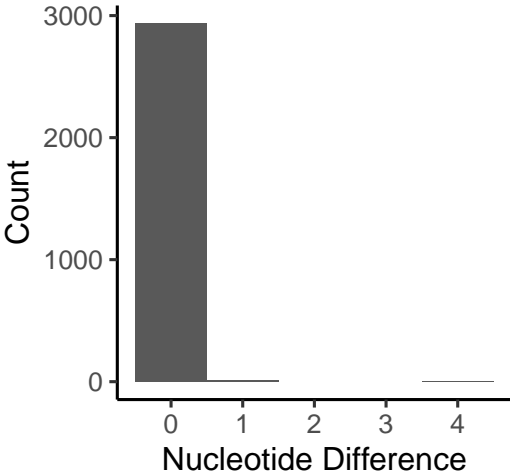
TRBV9\*ap01

10788 sequences assigned  
10711 (99.3%) exact matches, in which:  
10619 unique CDR3  
13 unique J



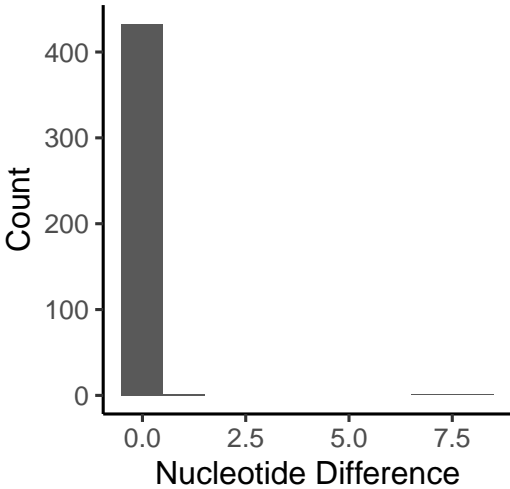
TRBV11-2\*ap01

2949 sequences assigned  
2936 (99.6%) exact matches, in which:  
2924 unique CDR3  
13 unique J



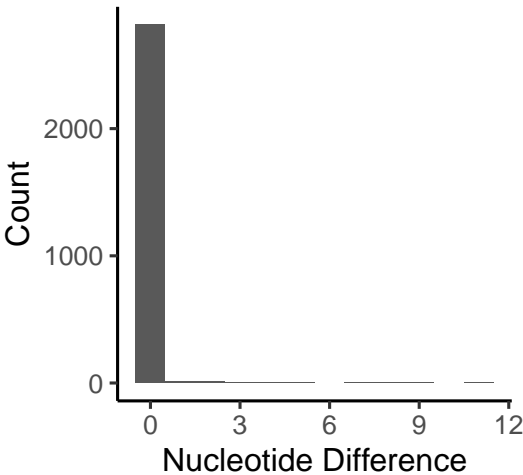
TRBV12-2\*ap01

437 sequences assigned  
433 (99.1%) exact matches, in which:  
430 unique CDR3  
13 unique J



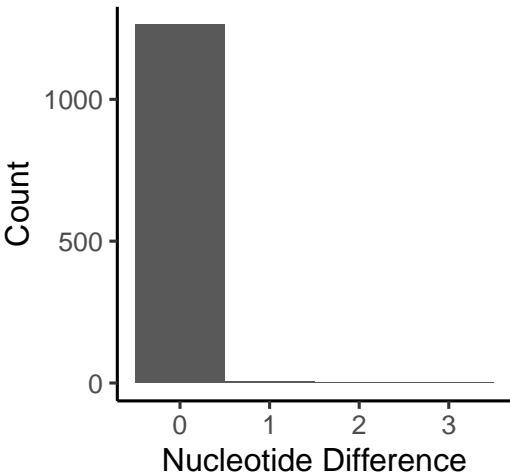
TRBV21-1\*ap01

2852 sequences assigned  
2817 (98.8%) exact matches, in which:  
2801 unique CDR3  
13 unique J



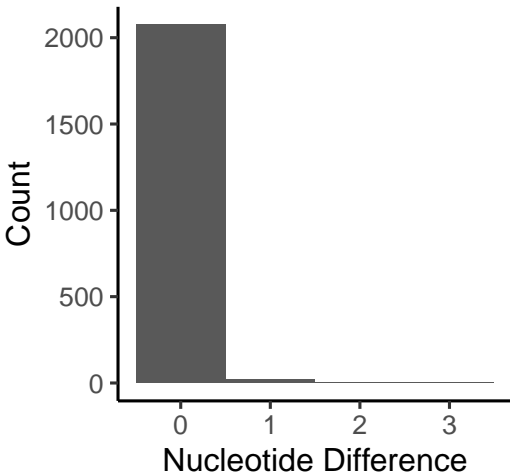
TRBV11-3\*ap01

1269 sequences assigned  
1263 (99.5%) exact matches, in which:  
1254 unique CDR3  
13 unique J



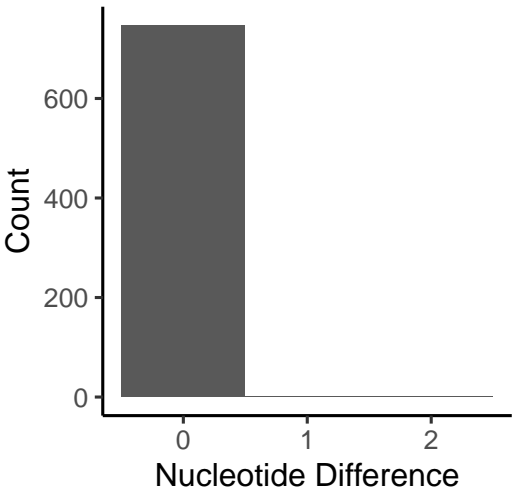
TRBV12-5\*ap01

2101 sequences assigned  
2075 (98.8%) exact matches, in which:  
2053 unique CDR3  
13 unique J



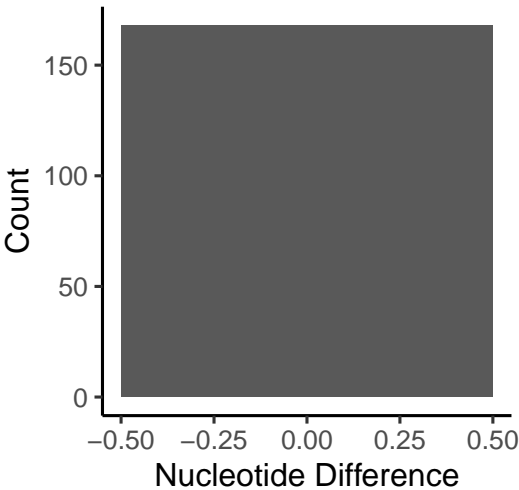
TRBV11-1\*ap01

749 sequences assigned  
747 (99.7%) exact matches, in which:  
744 unique CDR3  
13 unique J



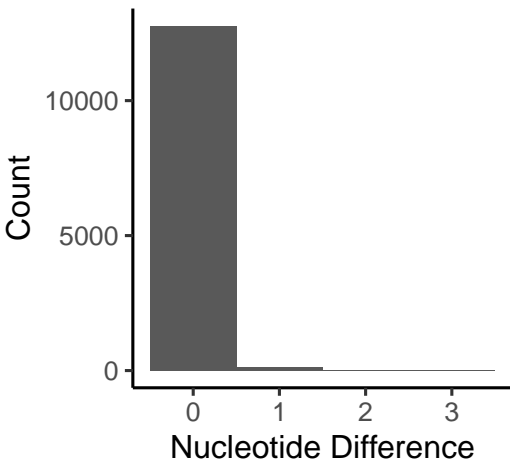
TRBV12-1\*ap01

168 sequences assigned  
168 (100%) exact matches, in which:  
167 unique CDR3  
13 unique J



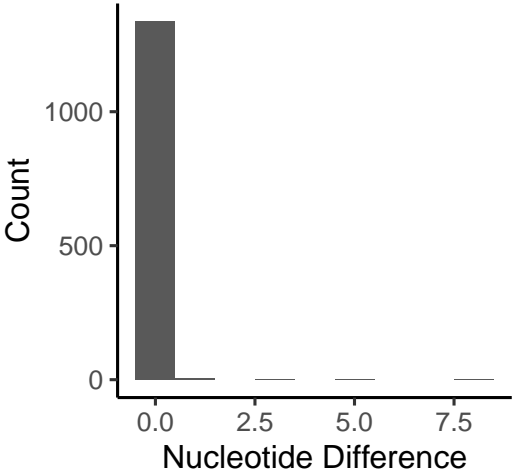
TRBV12-34\*ap01

12914 sequences assigned  
12772 (98.9%) exact matches, in which:  
12636 unique CDR3  
13 unique J



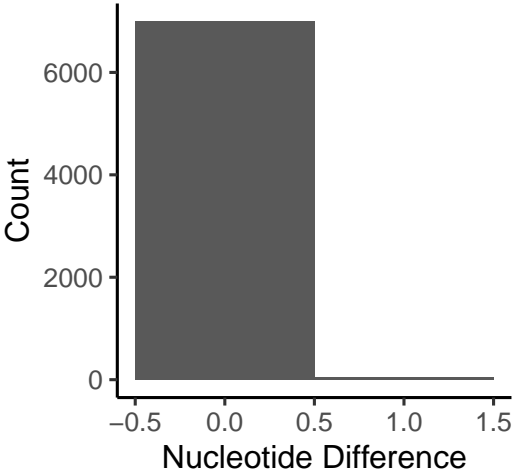
TRBV23-1\*ap01

1347 sequences assigned  
1337 (99.3%) exact matches, in which:  
1320 unique CDR3  
13 unique J



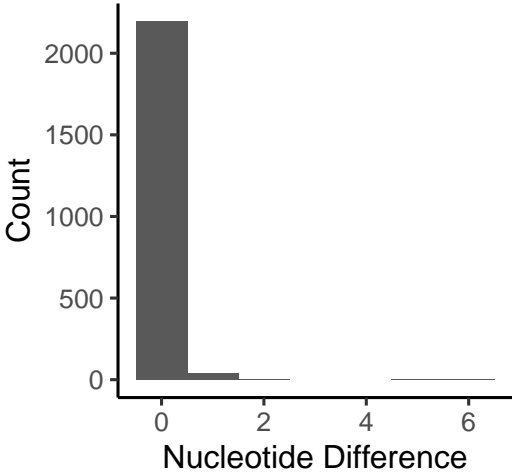
TRBV4-1\*ap01

7036 sequences assigned  
6996 (99.4%) exact matches, in which:  
6904 unique CDR3  
13 unique J



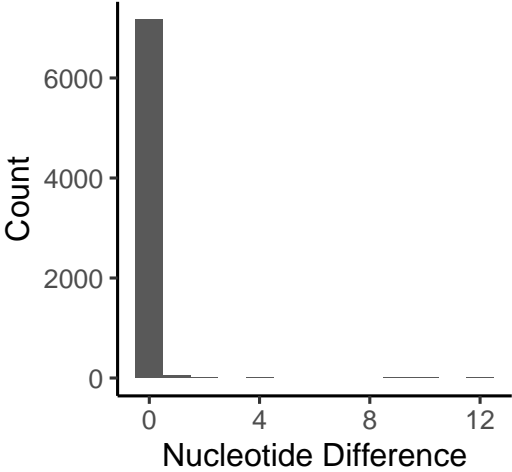
TRBV25-1\*ap01

2235 sequences assigned  
2195 (98.2%) exact matches, in which:  
2150 unique CDR3  
13 unique J



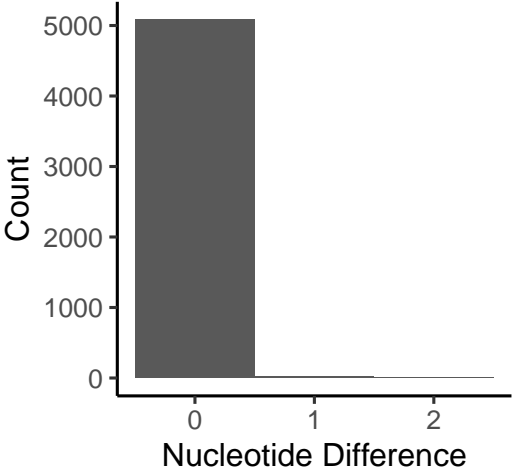
TRBV3-12\*ap01

7224 sequences assigned  
7165 (99.2%) exact matches, in which:  
7120 unique CDR3  
13 unique J



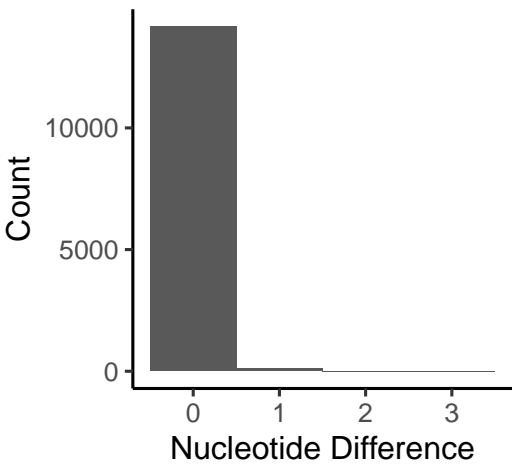
TRBV4-2\*ap01

5107 sequences assigned  
5082 (99.5%) exact matches, in which:  
5011 unique CDR3  
13 unique J



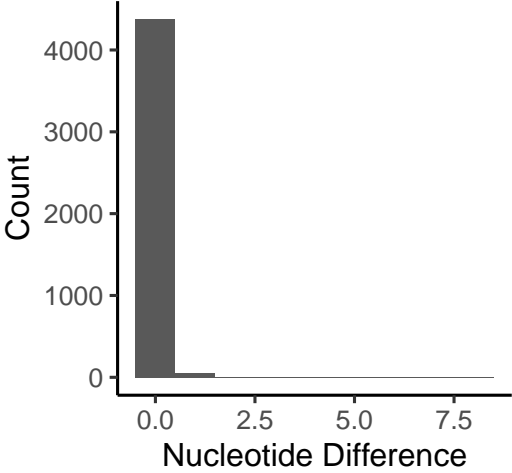
TRBV5-1\*ap01

14295 sequences assigned  
14169 (99.1%) exact matches, in which:  
13930 unique CDR3  
13 unique J



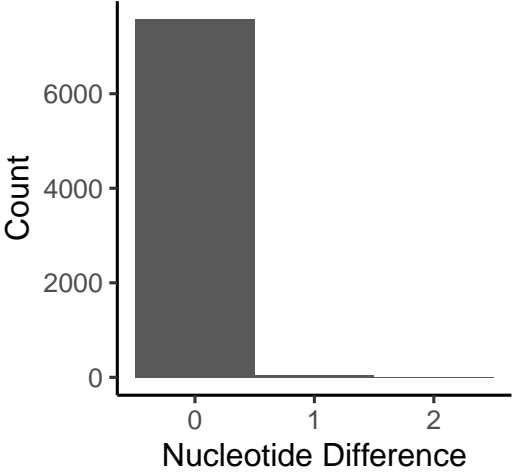
TRBV24-1\*ap01

4439 sequences assigned  
4378 (98.6%) exact matches, in which:  
4323 unique CDR3  
13 unique J



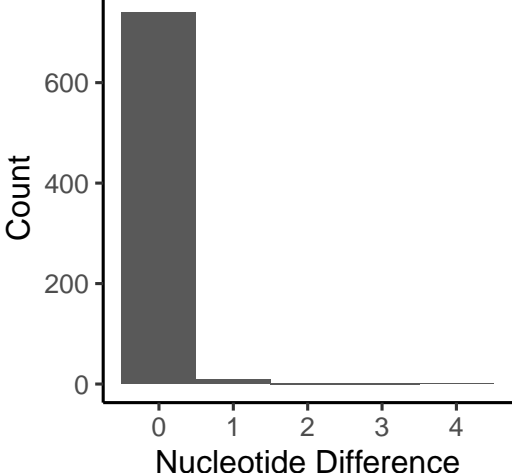
TRBV4-3\*ap01

7632 sequences assigned  
7580 (99.3%) exact matches, in which:  
7473 unique CDR3  
13 unique J



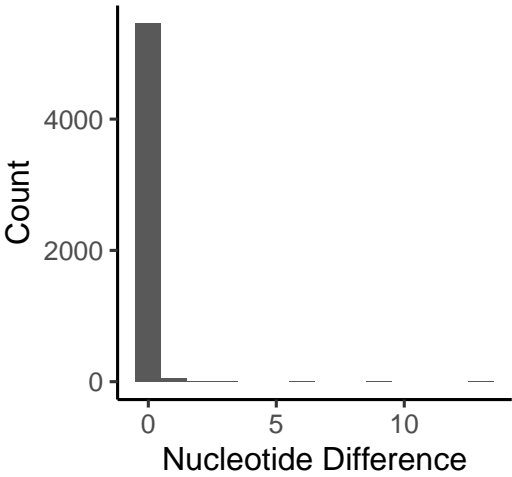
TRBV5-3\*ap01

754 sequences assigned  
740 (98.1%) exact matches, in which:  
733 unique CDR3  
13 unique J



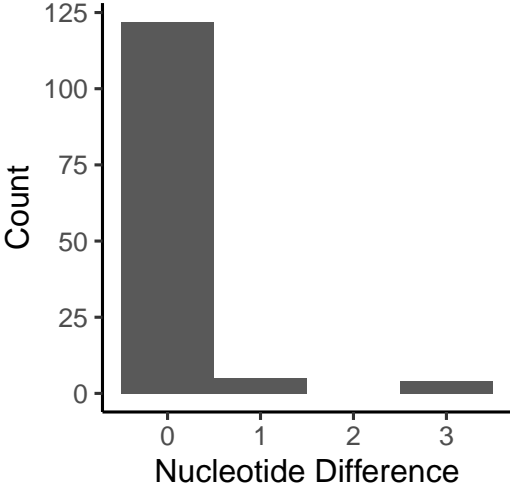
TRBV5-4\*ap01

5511 sequences assigned  
5458 (99%) exact matches, in which:  
5398 unique CDR3  
13 unique J



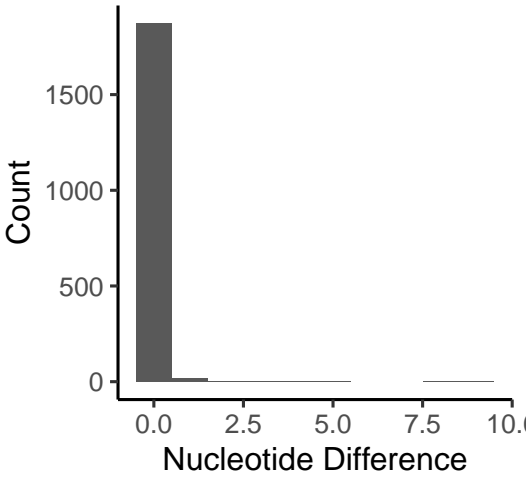
TRBV5-7\*ap01

131 sequences assigned  
122 (93.1%) exact matches, in which:  
120 unique CDR3  
13 unique J



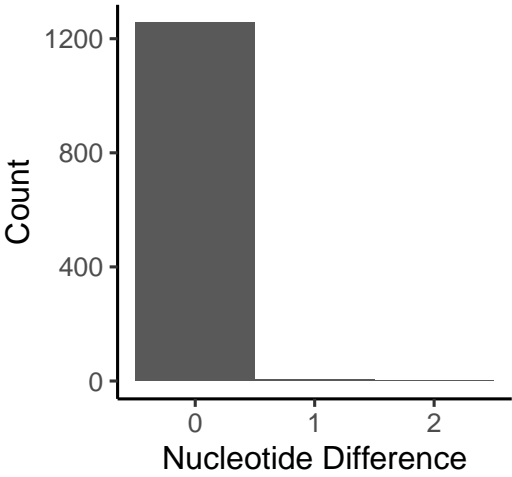
TRBV6-4\*ap01

1900 sequences assigned  
1872 (98.5%) exact matches, in which:  
1855 unique CDR3  
13 unique J



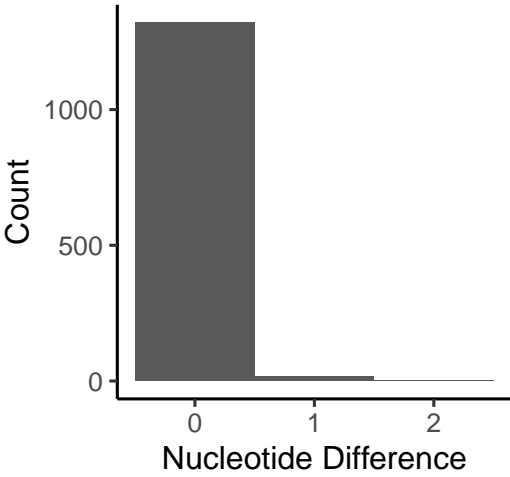
TRBV5-5\*ap01

1263 sequences assigned  
1256 (99.4%) exact matches, in which:  
1249 unique CDR3  
13 unique J



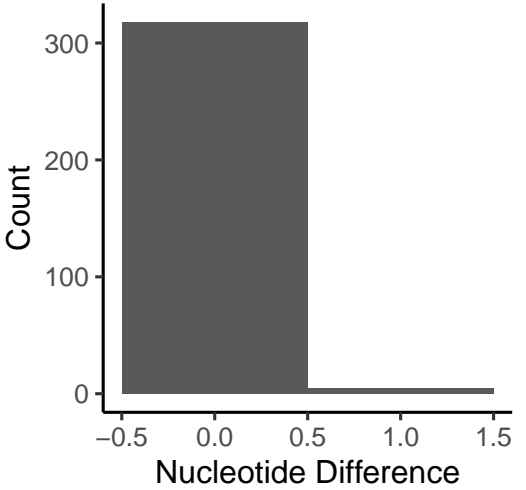
TRBV5-8\*ap01

1337 sequences assigned  
1320 (98.7%) exact matches, in which:  
1313 unique CDR3  
13 unique J



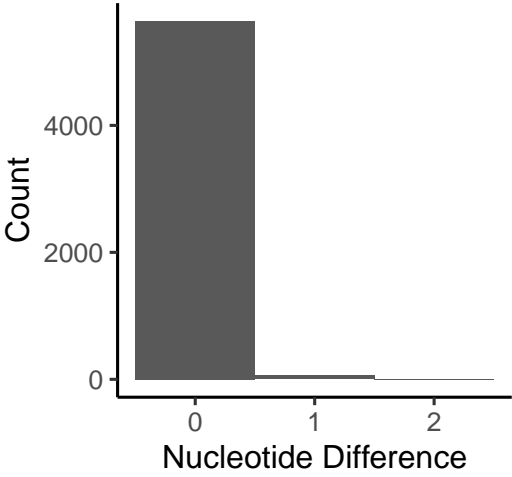
TRBV6-7\*ap01

323 sequences assigned  
318 (98.5%) exact matches, in which:  
310 unique CDR3  
13 unique J



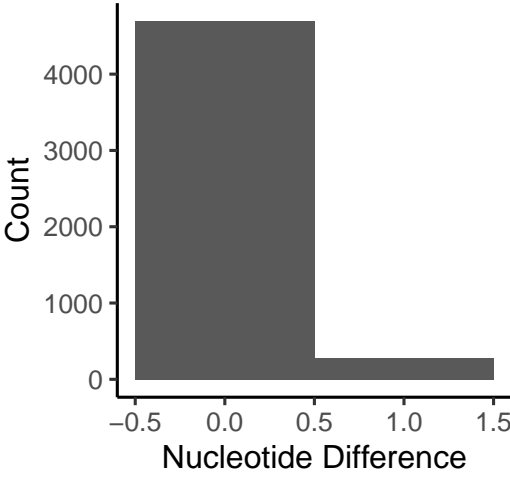
TRBV5-6\*ap01

5705 sequences assigned  
5644 (98.9%) exact matches, in which:  
5498 unique CDR3  
13 unique J



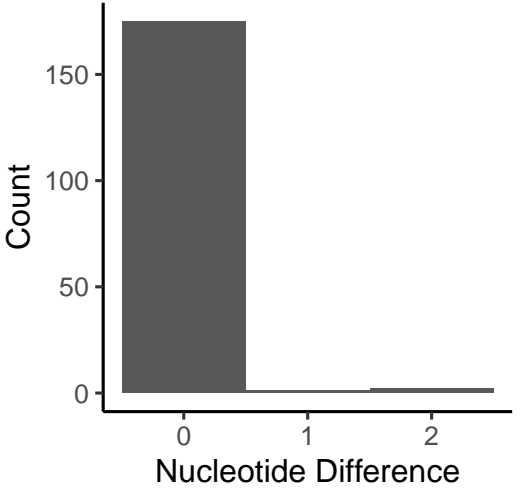
TRBV6-1\*ap01

4979 sequences assigned  
4696 (94.3%) exact matches, in which:  
4643 unique CDR3  
13 unique J



TRBV6-8\*ap01

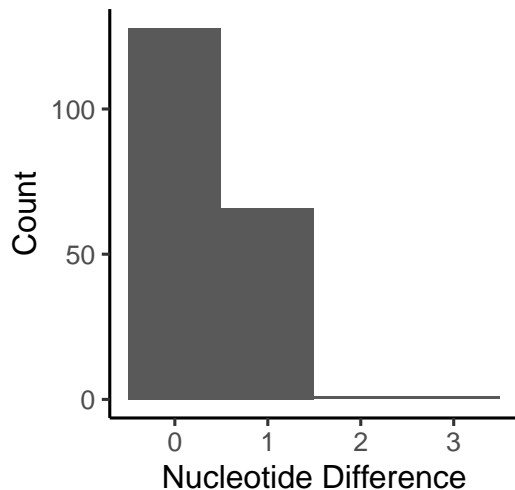
178 sequences assigned  
175 (98.3%) exact matches, in which:  
172 unique CDR3  
13 unique J





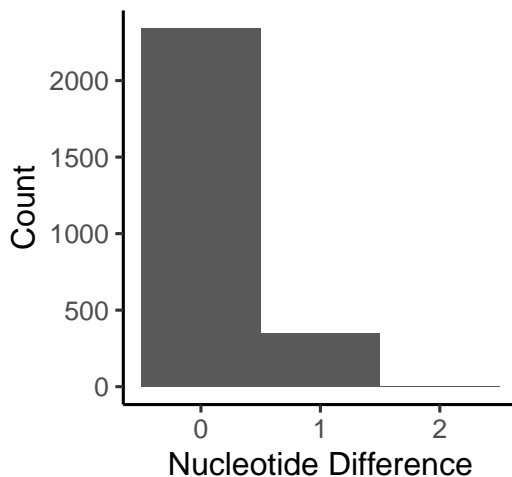
### TRBV6–9\*ap01

196 sequences assigned  
128 (65.3%) exact matches, in which:  
125 unique CDR3  
13 unique J



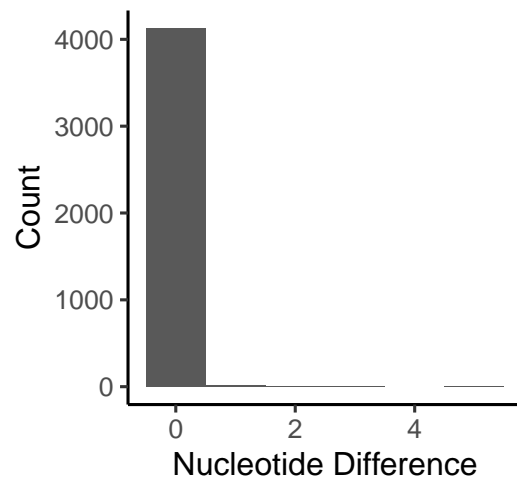
### TRBV6–56\*ap02

2696 sequences assigned  
2341 (86.8%) exact matches, in which:  
2297 unique CDR3  
13 unique J



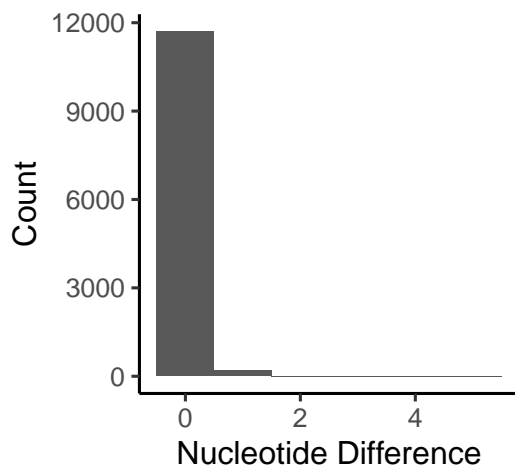
### TRBV7–3\*ap01

4143 sequences assigned  
4126 (99.6%) exact matches, in which:  
4101 unique CDR3  
13 unique J



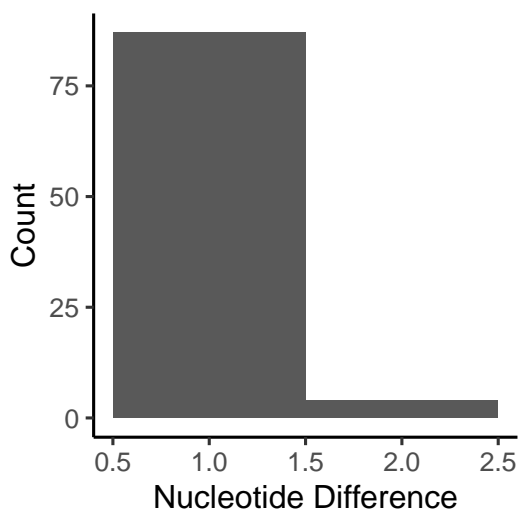
### TRBV6–23\*ap01

11900 sequences assigned  
11702 (98.3%) exact matches, in which:  
11472 unique CDR3  
13 unique J



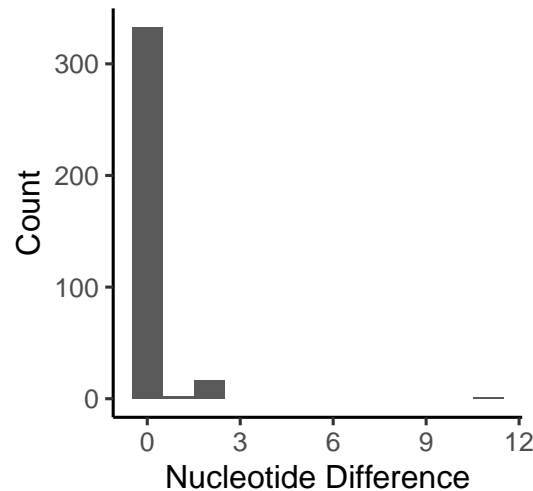
### TRBV7–1\*ap01\_T296C

91 sequences assigned  
No exact matches.



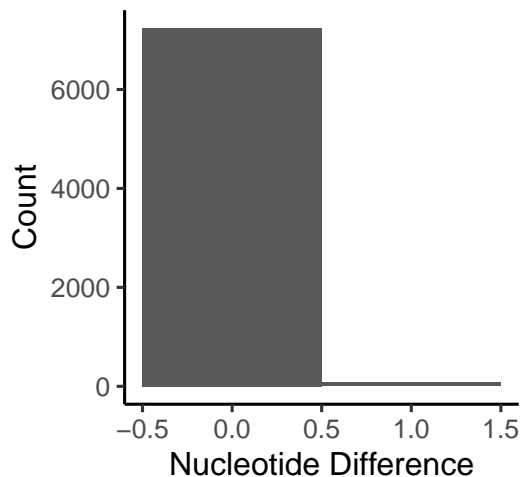
### TRBV7–4\*ap01

353 sequences assigned  
333 (94.3%) exact matches, in which:  
332 unique CDR3  
13 unique J



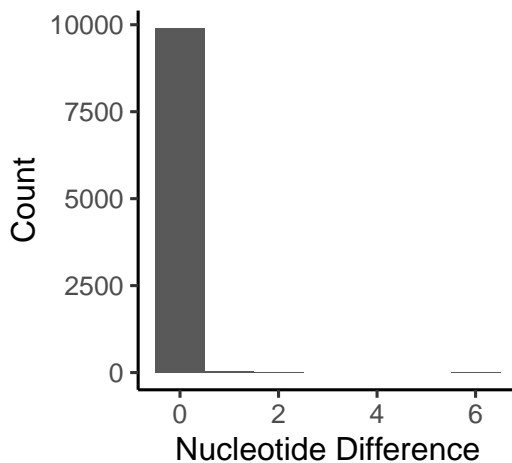
### TRBV6–56\*ap01

7323 sequences assigned  
7242 (98.9%) exact matches, in which:  
7115 unique CDR3  
13 unique J



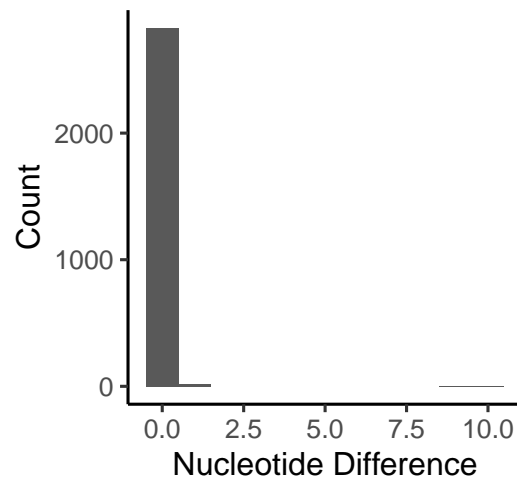
### TRBV7–2\*ap01

9958 sequences assigned  
9912 (99.5%) exact matches, in which:  
9831 unique CDR3  
13 unique J



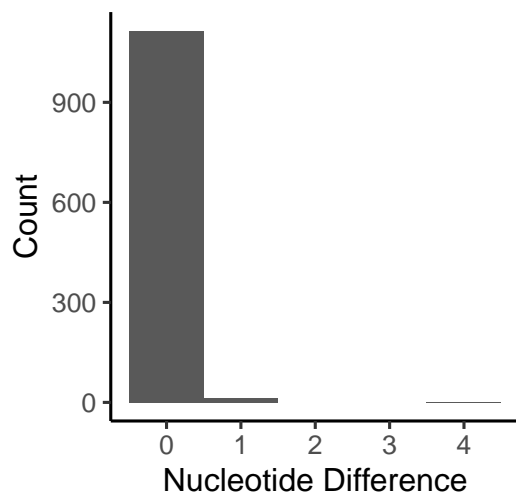
### TRBV7–6\*ap01

2852 sequences assigned  
2830 (99.2%) exact matches, in which:  
2798 unique CDR3  
13 unique J



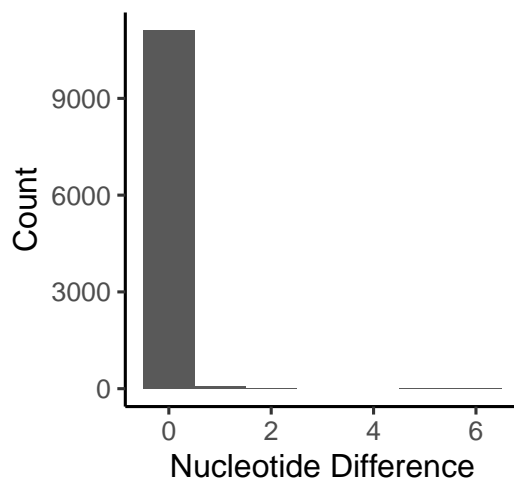
### TRBV7-7\*ap01\_C315T

1130 sequences assigned  
1115 (98.7%) exact matches, in which:  
1105 unique CDR3  
13 unique J



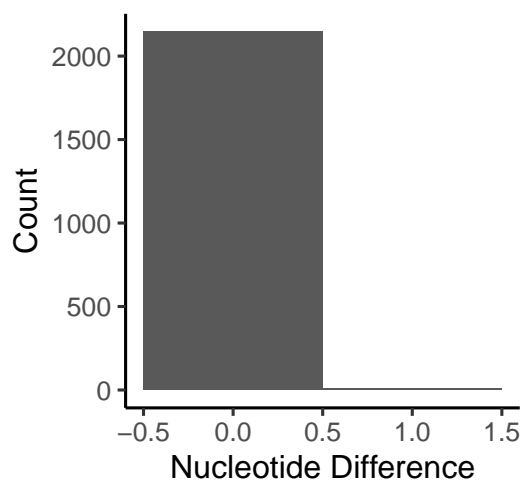
### TRBV7-9\*ap01

11174 sequences assigned  
11107 (99.4%) exact matches, in which:  
11001 unique CDR3  
13 unique J



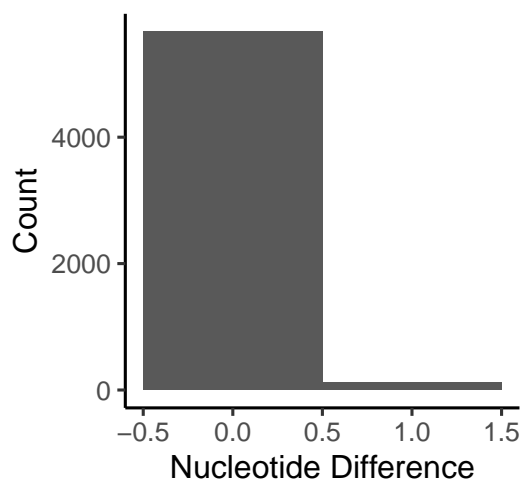
### TRBV7-8\*ap01

2154 sequences assigned  
2146 (99.6%) exact matches, in which:  
2125 unique CDR3  
13 unique J



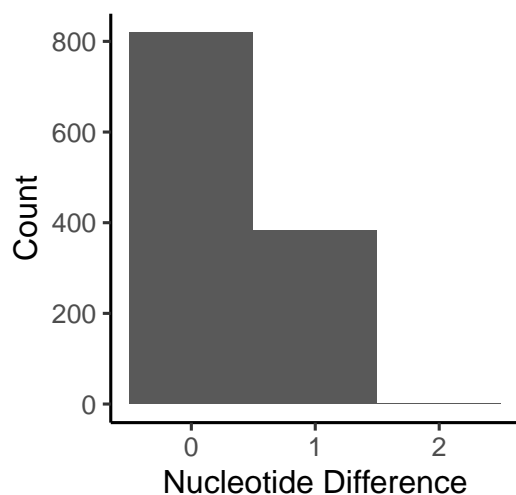
### TRBV29-1\*ap01

5783 sequences assigned  
5669 (98%) exact matches, in which:  
5546 unique CDR3  
13 unique J



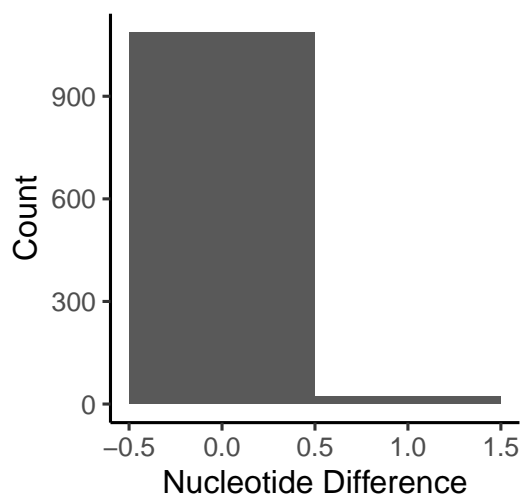
### TRBV7-8\*ap03

1203 sequences assigned  
820 (68.2%) exact matches, in which:  
812 unique CDR3  
13 unique J

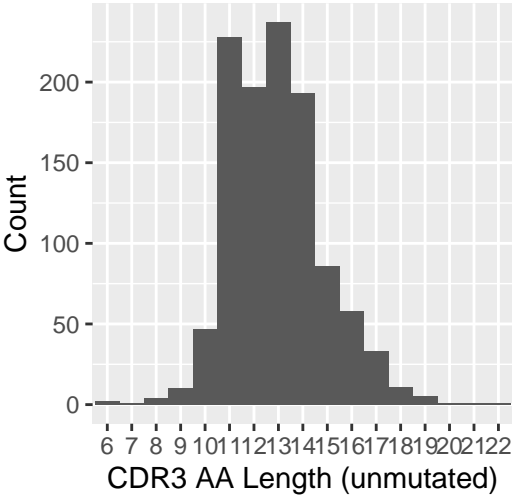


### TRBV29-1\*ap02

1110 sequences assigned  
1087 (97.9%) exact matches, in which:  
1066 unique CDR3  
13 unique J



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[illegible]