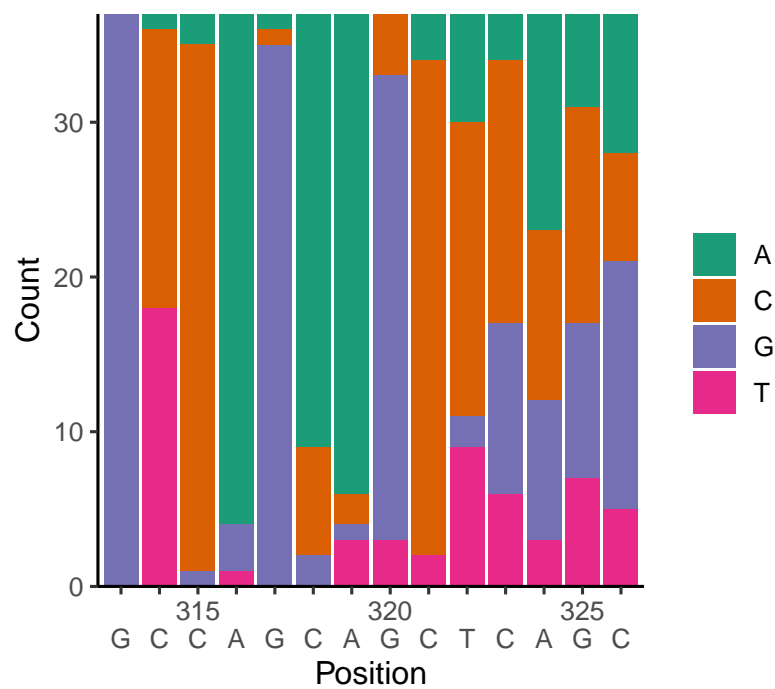
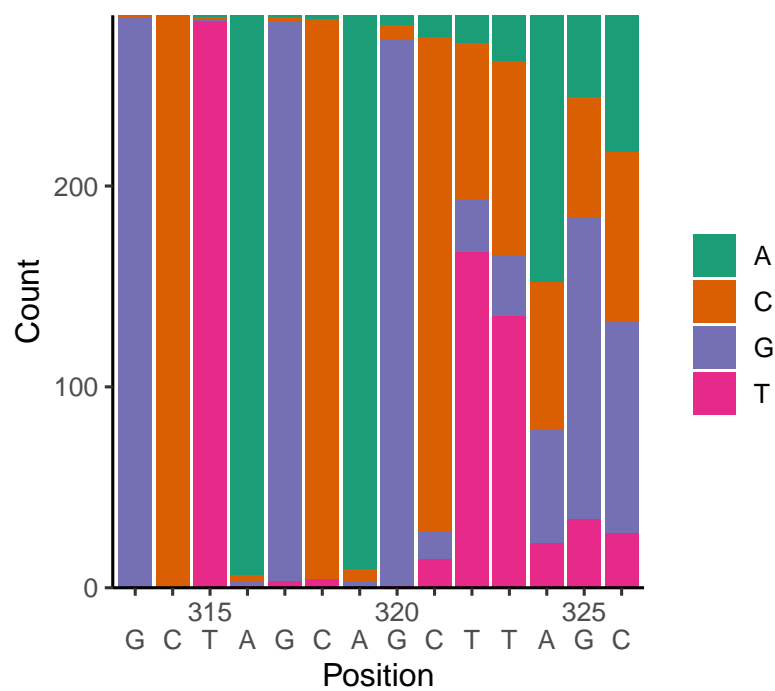


Gene TRBV7-1\*ap01\_T296C



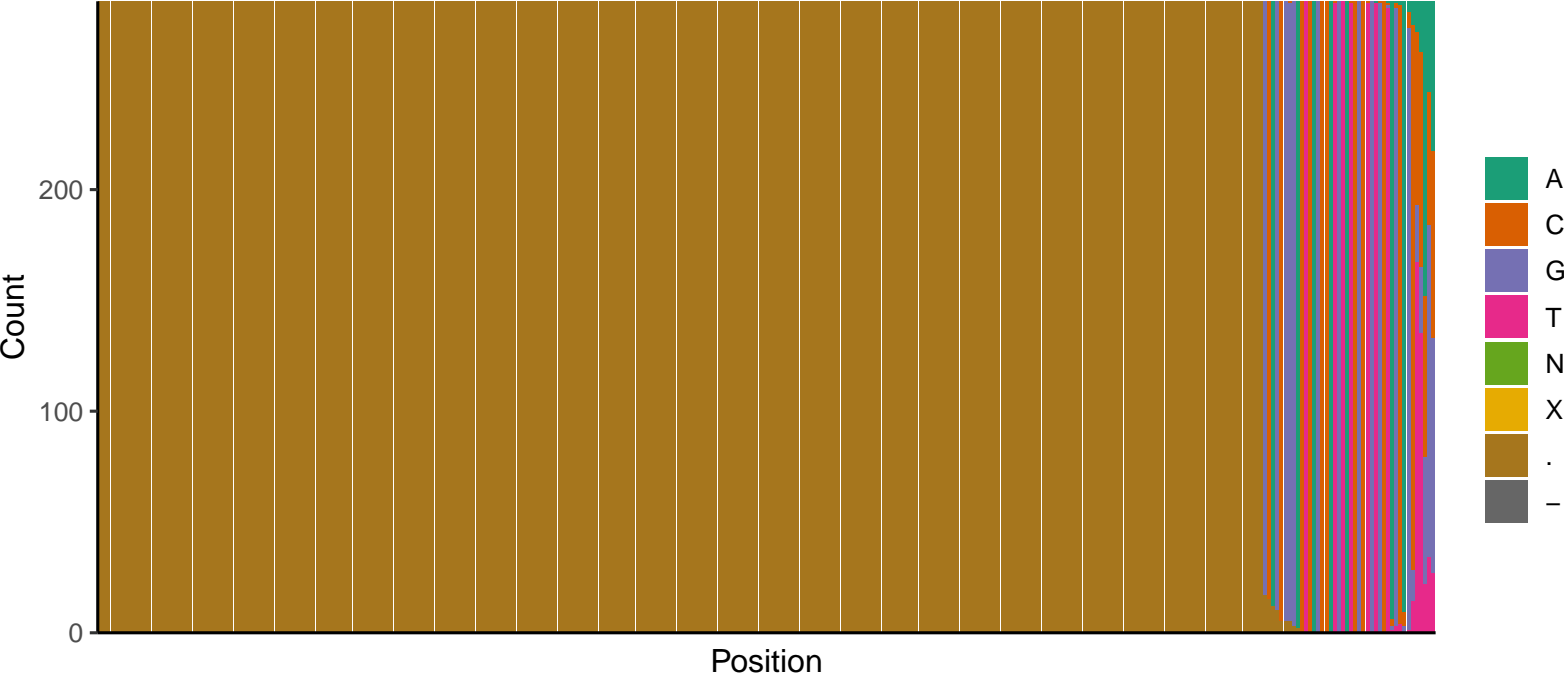
Gene TRBV7-7\*ap01\_C315T



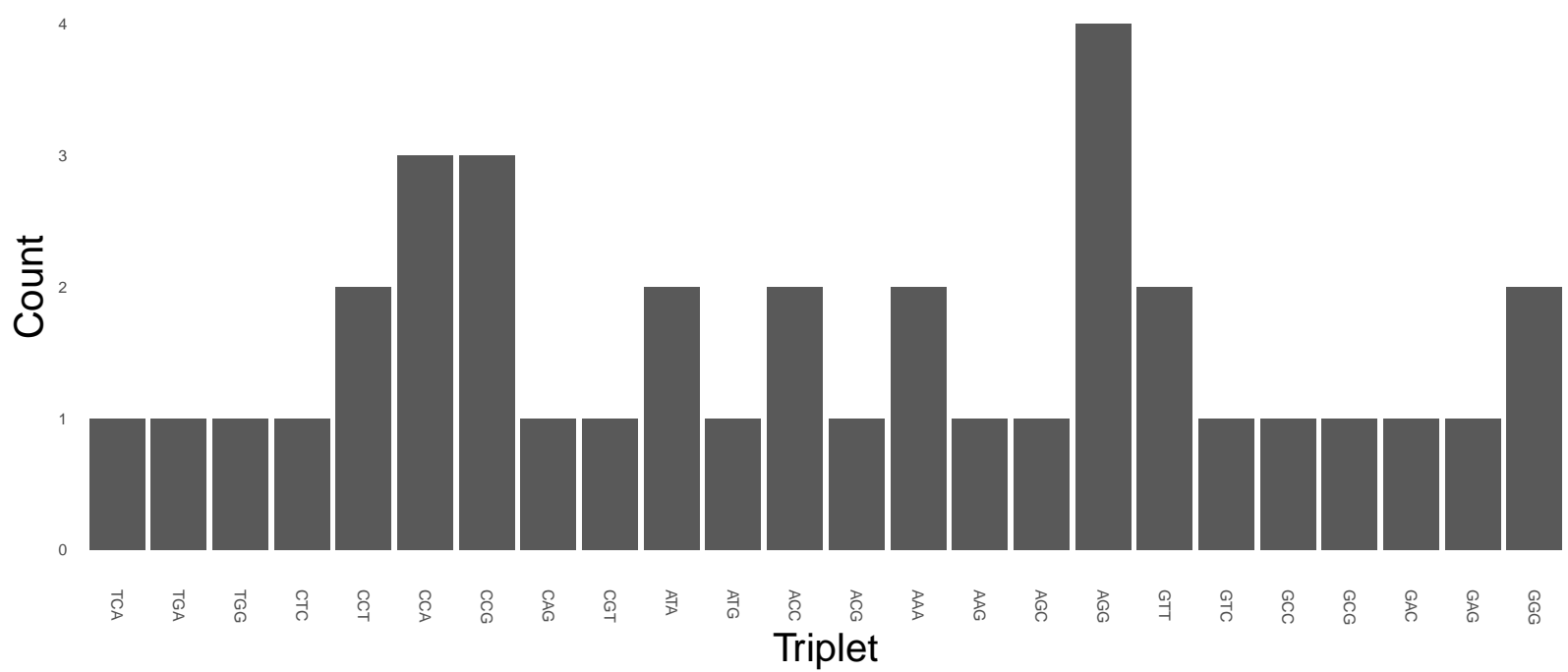
Gene TRBV7-1\*ap01\_T296C



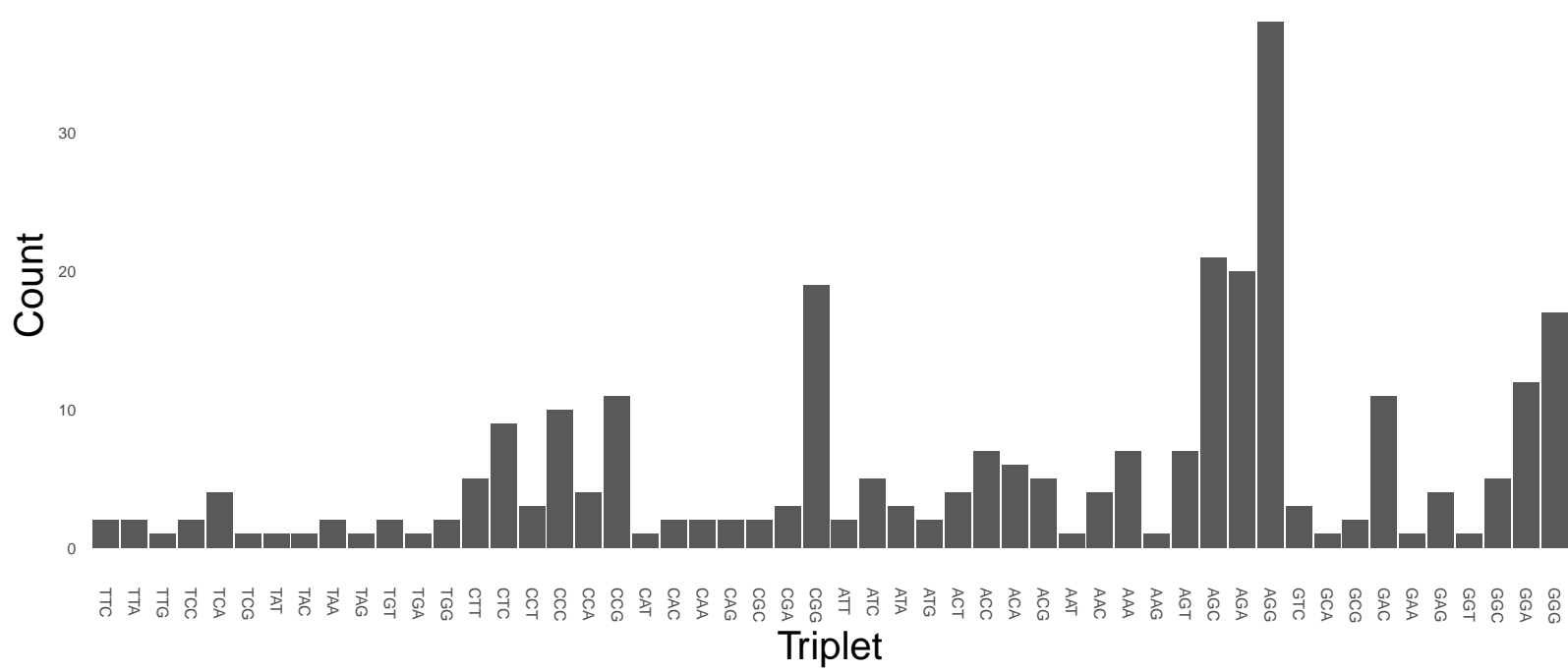
Gene TRBV7-7\*ap01\_C315T



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

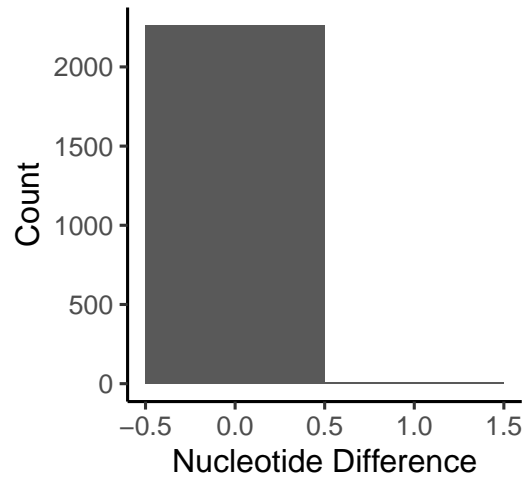


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



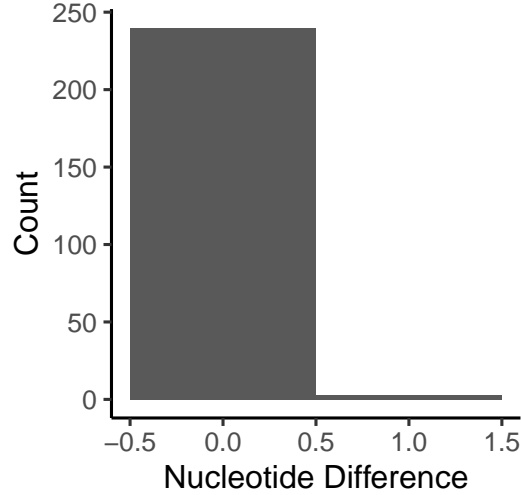
### TRBV20-1\*ap01

2270 sequences assigned  
2262 (99.6%) exact matches, in which:  
2244 unique CDR3  
13 unique J



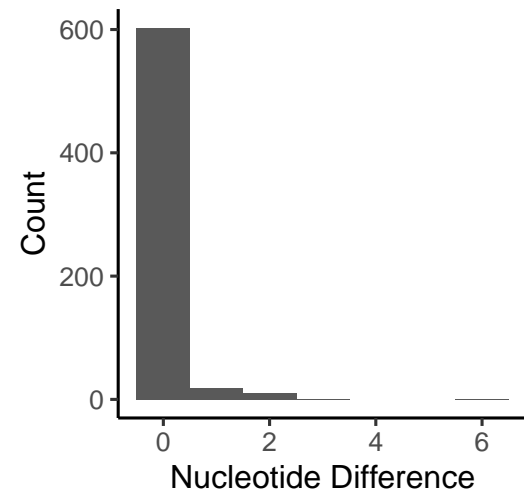
### TRBV10-2\*ap01

243 sequences assigned  
240 (98.8%) exact matches, in which:  
237 unique CDR3  
13 unique J



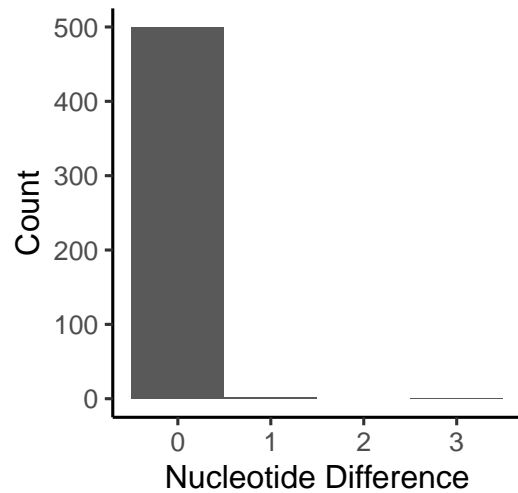
### TRBV13\*ap01

633 sequences assigned  
603 (95.3%) exact matches, in which:  
598 unique CDR3  
13 unique J



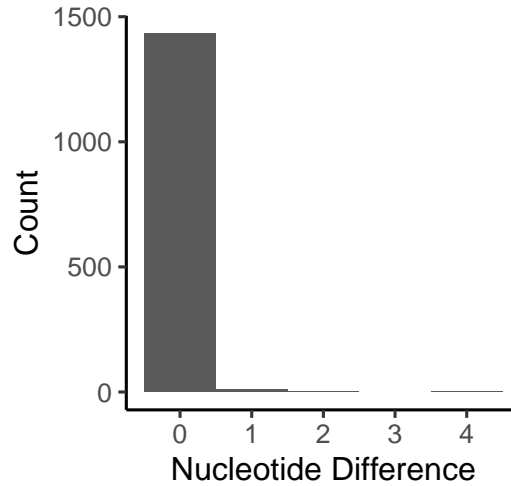
### TRBV10-1\*ap01

503 sequences assigned  
500 (99.4%) exact matches, in which:  
496 unique CDR3  
13 unique J



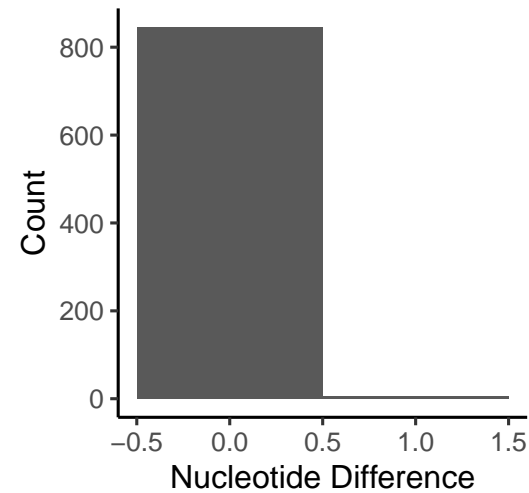
### TRBV10-3\*ap01

1444 sequences assigned  
1432 (99.2%) exact matches, in which:  
1413 unique CDR3  
13 unique J



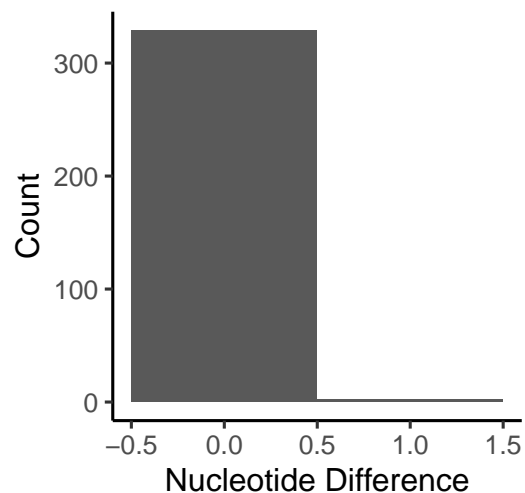
### TRBV14\*ap01

851 sequences assigned  
846 (99.4%) exact matches, in which:  
836 unique CDR3  
13 unique J



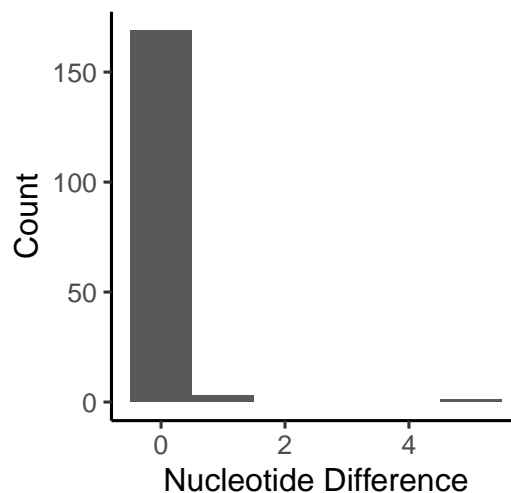
### TRBV20-1\*ap02

331 sequences assigned  
329 (99.4%) exact matches, in which:  
327 unique CDR3  
13 unique J



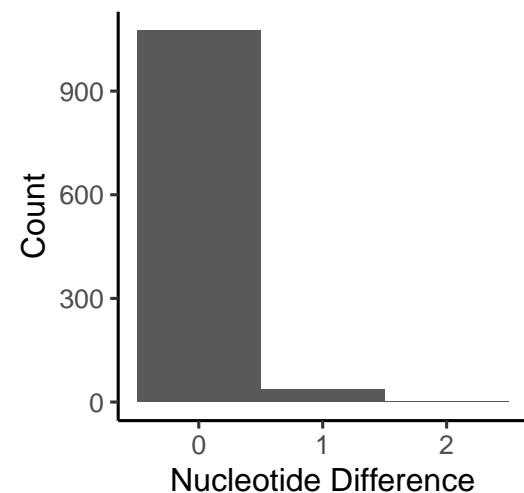
### TRBV1\*ap01

173 sequences assigned  
169 (97.7%) exact matches, in which:  
164 unique CDR3  
12 unique J



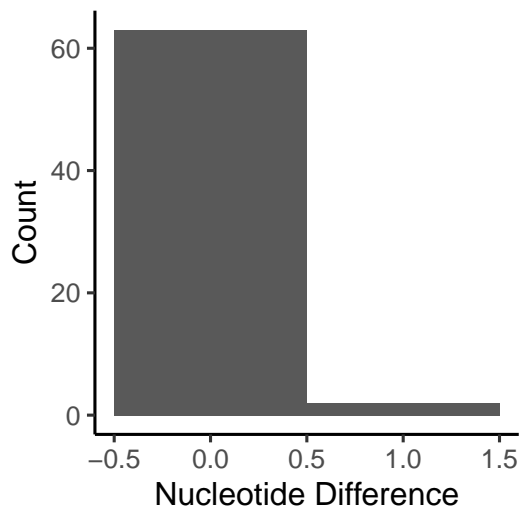
### TRBV15\*ap02

1112 sequences assigned  
1076 (96.8%) exact matches, in which:  
1066 unique CDR3  
13 unique J



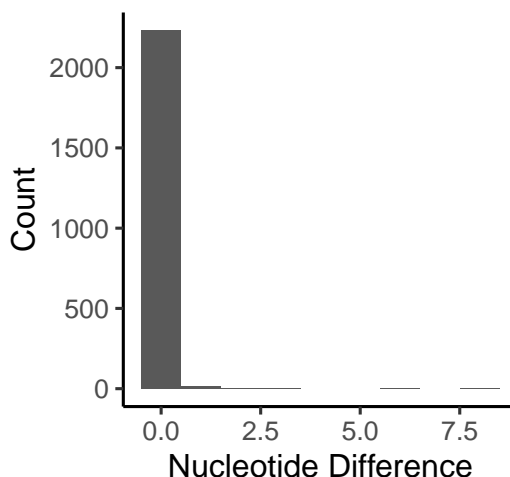
### TRBV16\*ap01

65 sequences assigned  
63 (96.9%) exact matches, in which:  
63 unique CDR3  
11 unique J



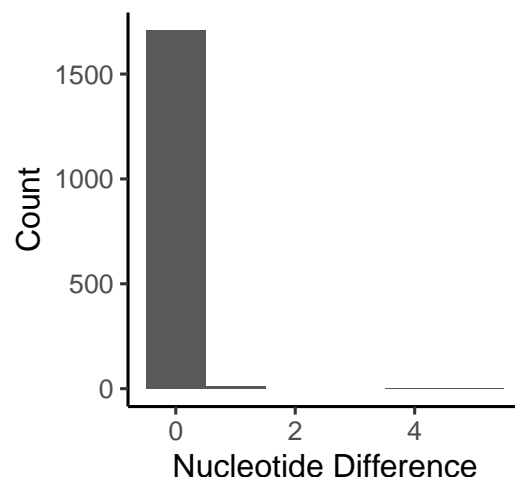
### TRBV19\*ap01

2252 sequences assigned  
2232 (99.1%) exact matches, in which:  
2221 unique CDR3  
13 unique J



### TRBV27\*ap01

1722 sequences assigned  
1708 (99.2%) exact matches, in which:  
1700 unique CDR3  
13 unique J



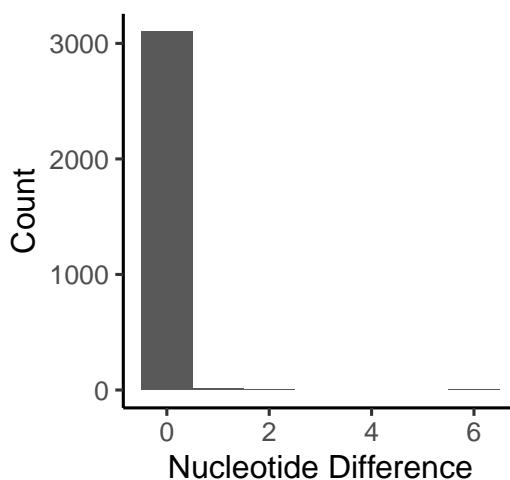
### TRBV17\*ap01

2 sequences assigned  
2 (100%) exact matches, in which:  
2 unique CDR3  
2 unique J



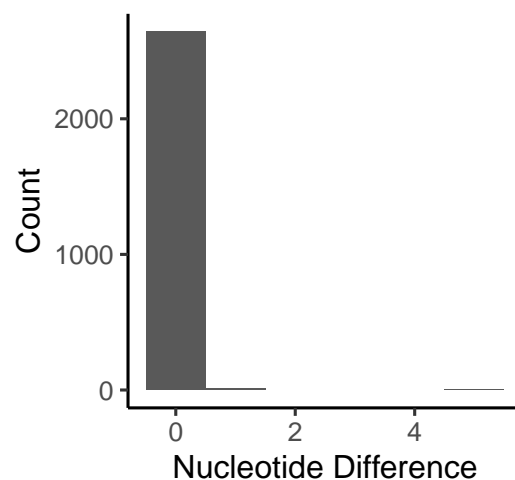
### TRBV2\*ap01

3119 sequences assigned  
3101 (99.4%) exact matches, in which:  
3082 unique CDR3  
13 unique J



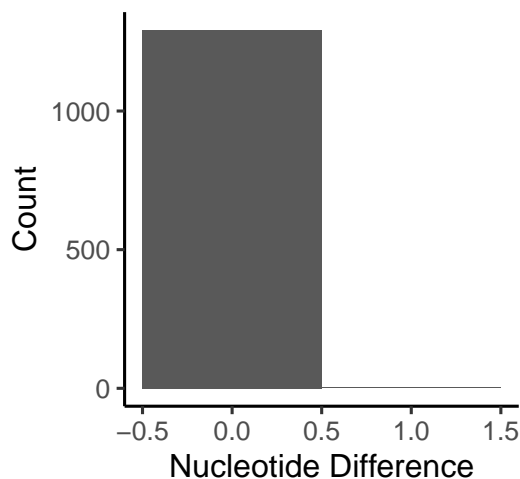
### TRBV28\*ap01

2654 sequences assigned  
2642 (99.5%) exact matches, in which:  
2630 unique CDR3  
13 unique J



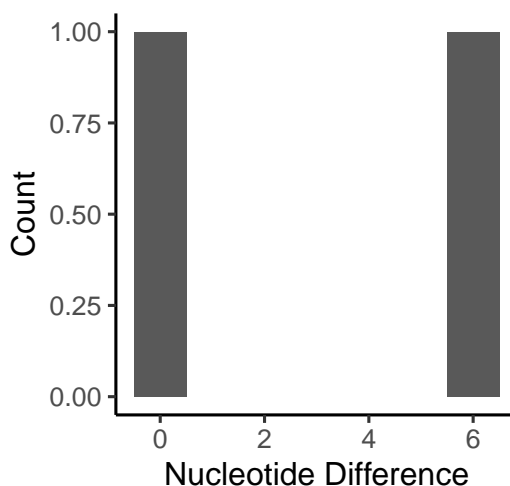
### TRBV18\*ap01

1295 sequences assigned  
1292 (99.8%) exact matches, in which:  
1289 unique CDR3  
13 unique J



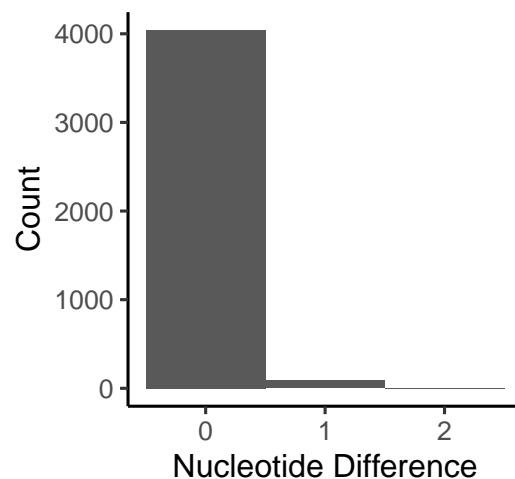
### TRBV26\*ap01

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



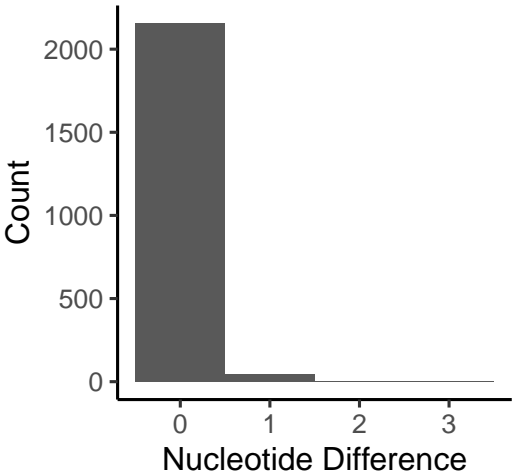
### TRBV30\*ap01

4134 sequences assigned  
4042 (97.8%) exact matches, in which:  
3985 unique CDR3  
13 unique J



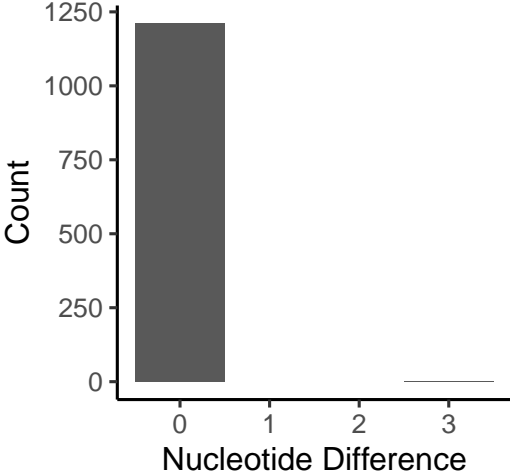
TRBV9\*ap01

2205 sequences assigned  
2155 (97.7%) exact matches, in which:  
2140 unique CDR3  
13 unique J



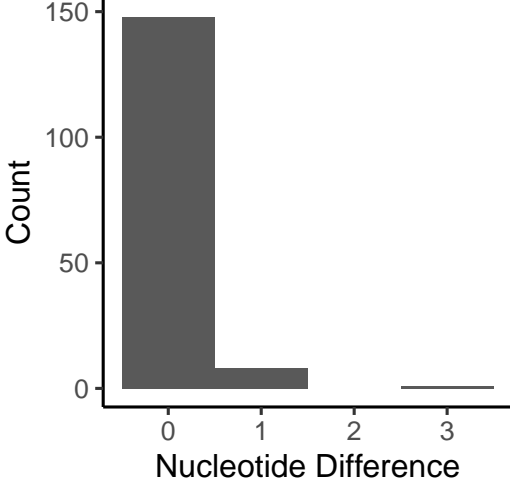
TRBV11-2\*ap01

1212 sequences assigned  
1211 (99.9%) exact matches, in which:  
1204 unique CDR3  
13 unique J



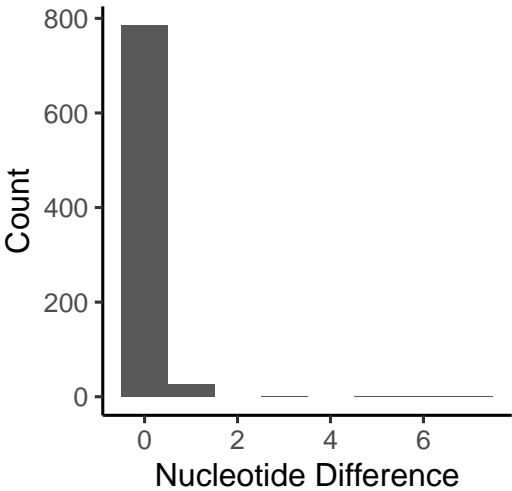
TRBV12-2\*ap01

157 sequences assigned  
148 (94.3%) exact matches, in which:  
147 unique CDR3  
13 unique J



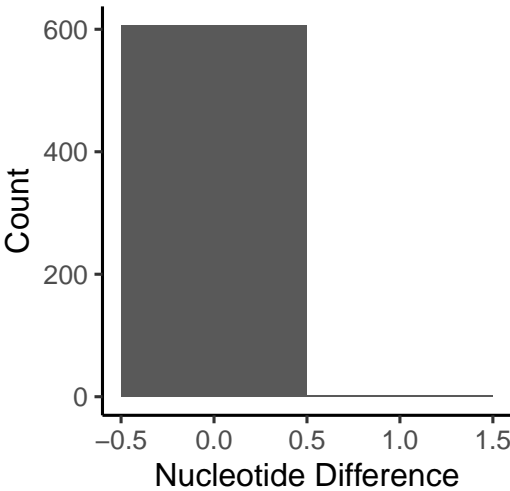
TRBV21-1\*ap01

818 sequences assigned  
786 (96.1%) exact matches, in which:  
785 unique CDR3  
13 unique J



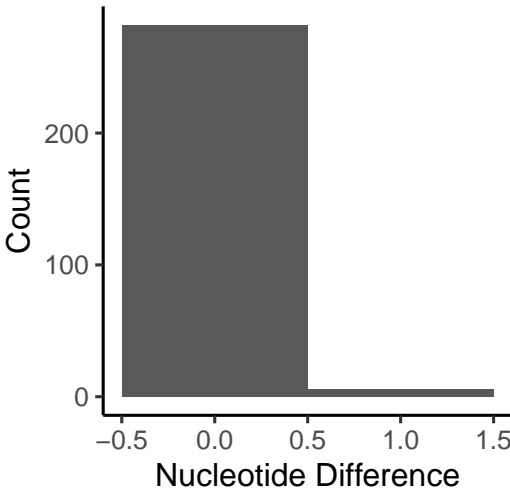
TRBV11-3\*ap01

609 sequences assigned  
607 (99.7%) exact matches, in which:  
605 unique CDR3  
13 unique J



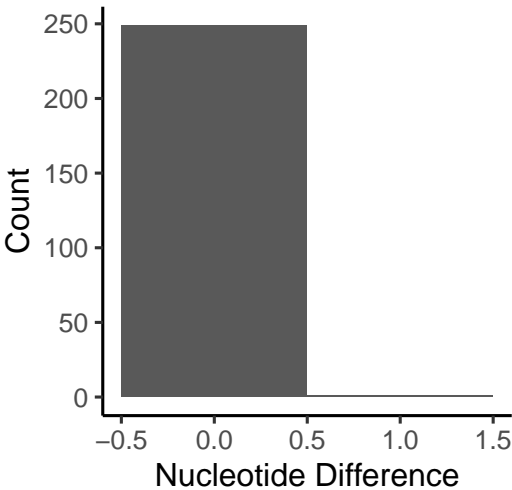
TRBV12-5\*ap01

288 sequences assigned  
282 (97.9%) exact matches, in which:  
280 unique CDR3  
13 unique J



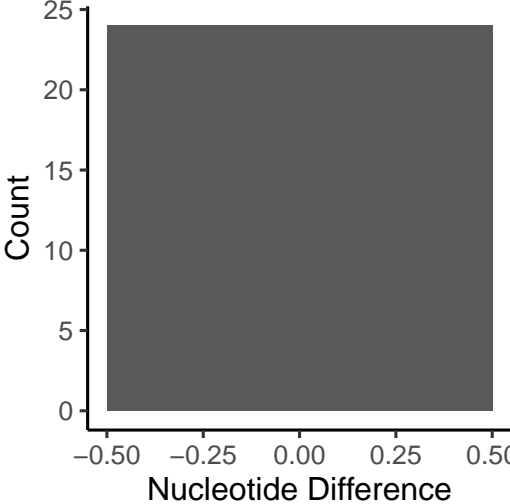
TRBV11-1\*ap01

250 sequences assigned  
249 (99.6%) exact matches, in which:  
248 unique CDR3  
13 unique J



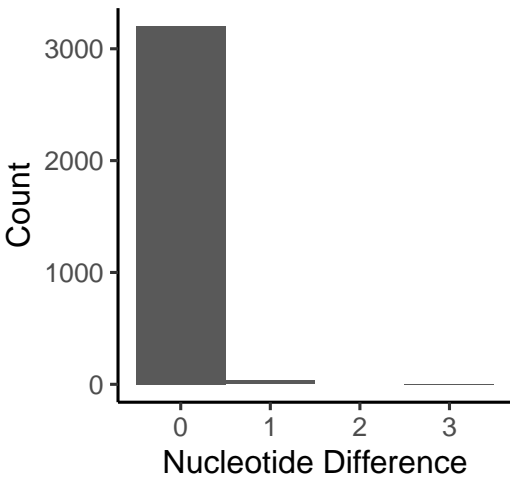
TRBV12-1\*ap01

24 sequences assigned  
24 (100%) exact matches, in which:  
24 unique CDR3  
9 unique J



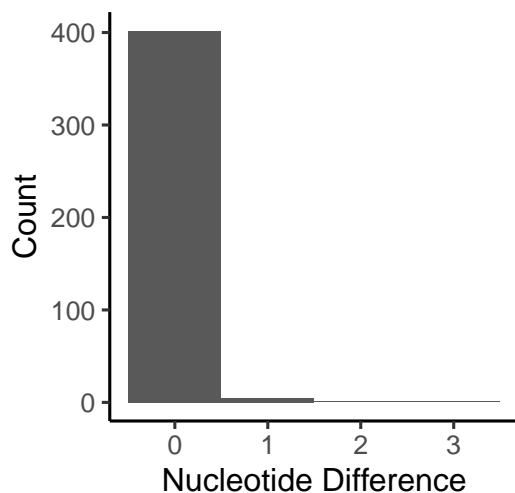
TRBV12-34\*ap01

3239 sequences assigned  
3203 (98.9%) exact matches, in which:  
3183 unique CDR3  
13 unique J



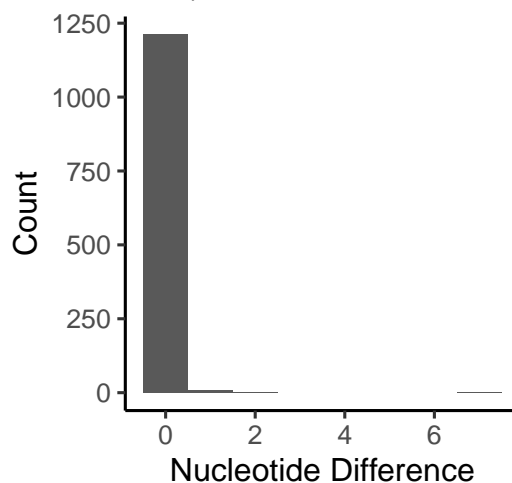
### TRBV23-1\*ap01

409 sequences assigned  
402 (98.3%) exact matches, in which:  
402 unique CDR3  
13 unique J



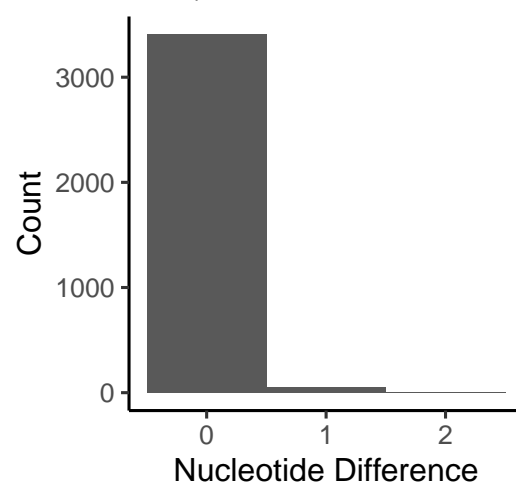
### TRBV24-1\*ap01

1224 sequences assigned  
1212 (99%) exact matches, in which:  
1202 unique CDR3  
13 unique J



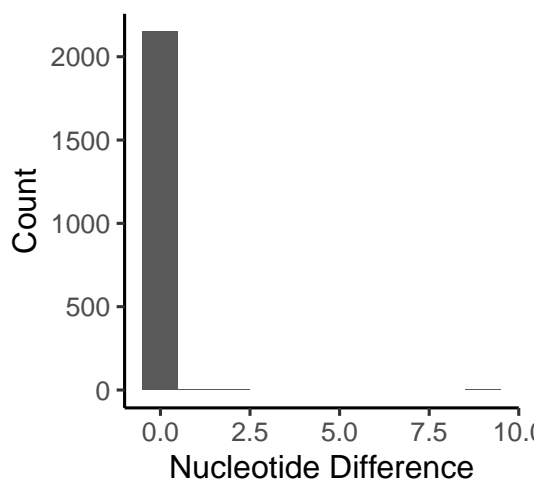
### TRBV5-1\*ap01

3456 sequences assigned  
3407 (98.6%) exact matches, in which:  
3389 unique CDR3  
13 unique J



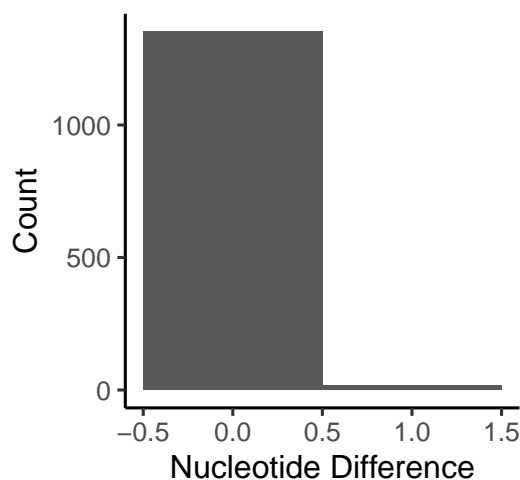
### TRBV3-12\*ap01

2156 sequences assigned  
2150 (99.7%) exact matches, in which:  
2144 unique CDR3  
13 unique J



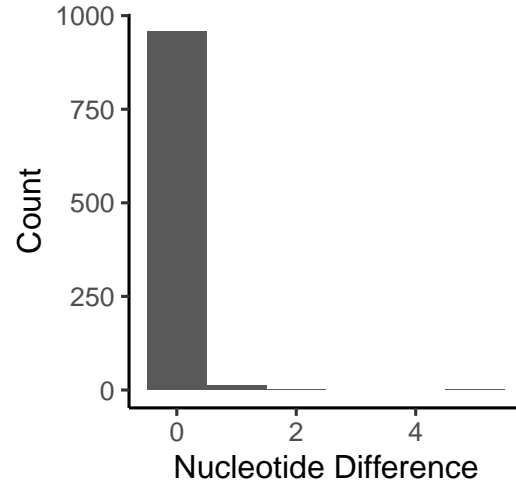
### TRBV4-2\*ap01

1369 sequences assigned  
1352 (98.8%) exact matches, in which:  
1332 unique CDR3  
13 unique J



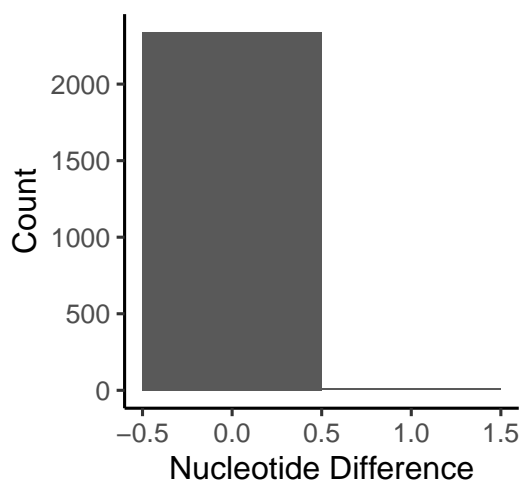
### TRBV25-1\*ap01

972 sequences assigned  
957 (98.5%) exact matches, in which:  
950 unique CDR3  
13 unique J



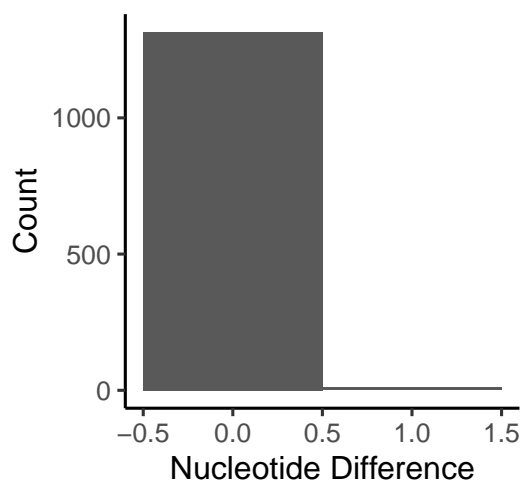
### TRBV4-1\*ap01

2353 sequences assigned  
2340 (99.4%) exact matches, in which:  
2311 unique CDR3  
13 unique J



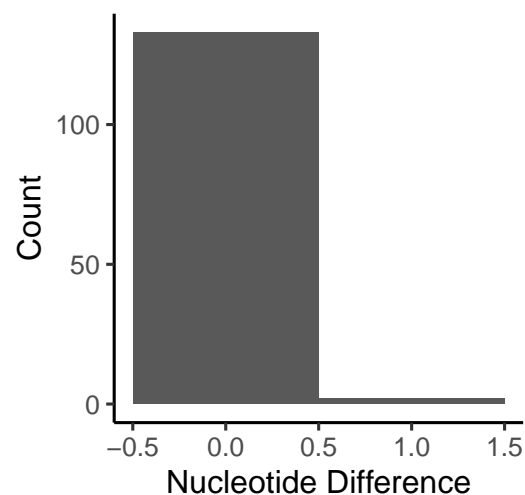
### TRBV4-3\*ap01

1326 sequences assigned  
1315 (99.2%) exact matches, in which:  
1297 unique CDR3  
13 unique J



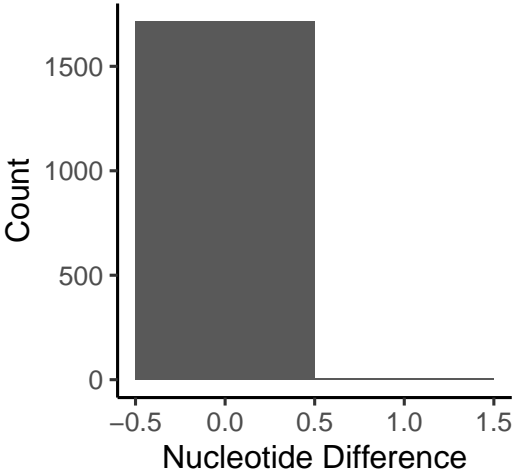
### TRBV5-3\*ap01

135 sequences assigned  
133 (98.5%) exact matches, in which:  
132 unique CDR3  
12 unique J



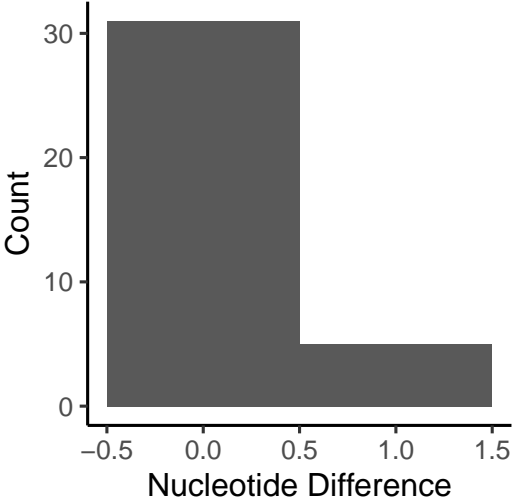
TRBV5-4\*ap01

1721 sequences assigned  
1715 (99.7%) exact matches, in which:  
1703 unique CDR3  
13 unique J



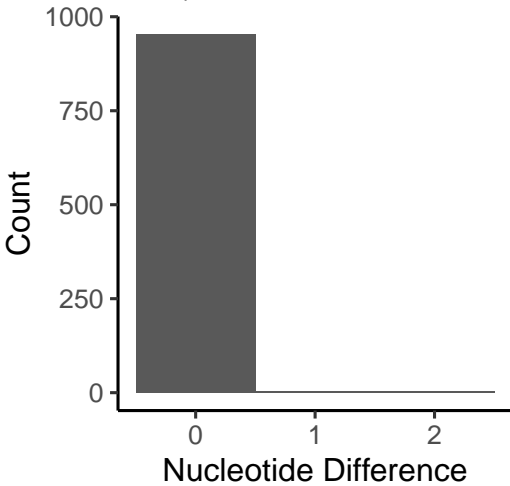
TRBV5-7\*ap01

36 sequences assigned  
31 (86.1%) exact matches, in which:  
30 unique CDR3  
11 unique J



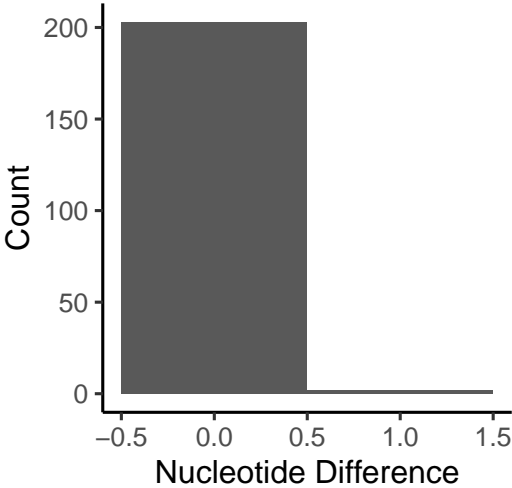
TRBV6-4\*ap01

960 sequences assigned  
953 (99.3%) exact matches, in which:  
950 unique CDR3  
13 unique J



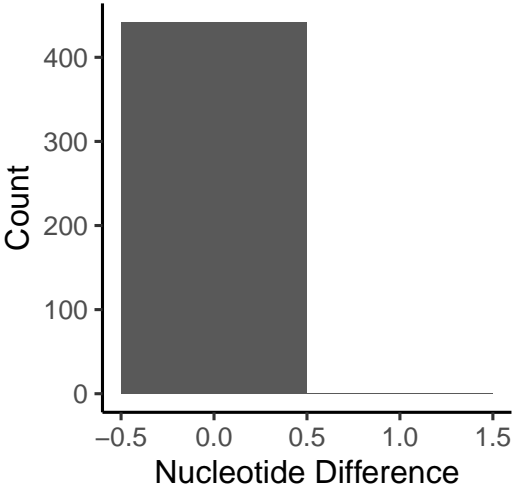
TRBV5-5\*ap01

205 sequences assigned  
203 (99%) exact matches, in which:  
203 unique CDR3  
12 unique J



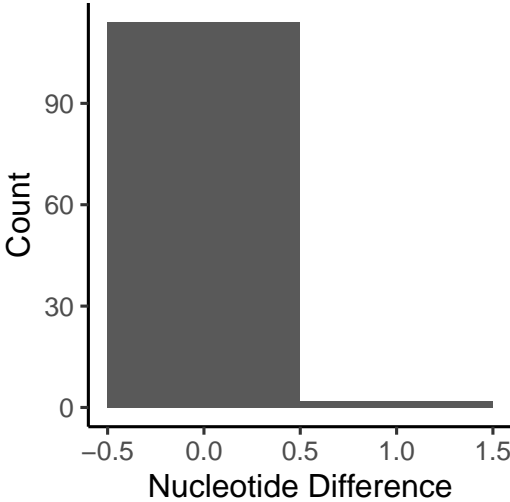
TRBV5-8\*ap01

443 sequences assigned  
442 (99.8%) exact matches, in which:  
442 unique CDR3  
13 unique J



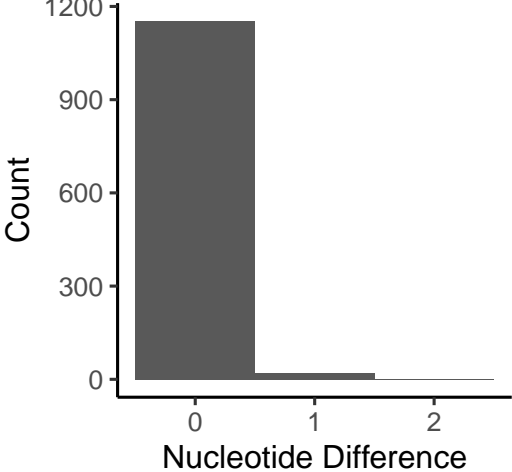
TRBV6-7\*ap01

116 sequences assigned  
114 (98.3%) exact matches, in which:  
112 unique CDR3  
12 unique J



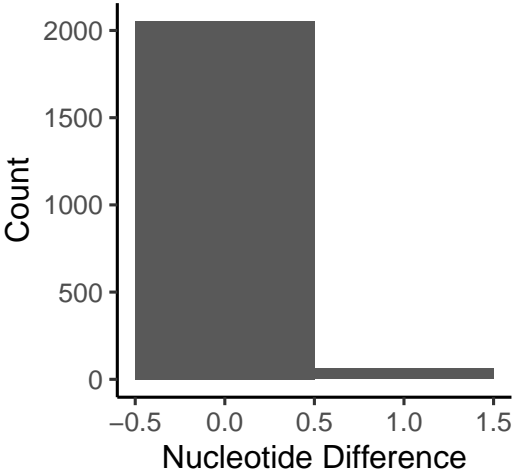
TRBV5-6\*ap01

1174 sequences assigned  
1153 (98.2%) exact matches, in which:  
1147 unique CDR3  
13 unique J



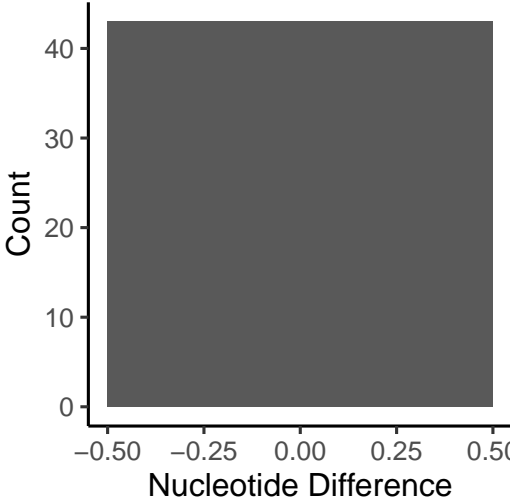
TRBV6-1\*ap01

2116 sequences assigned  
2054 (97.1%) exact matches, in which:  
2027 unique CDR3  
13 unique J



TRBV6-8\*ap01

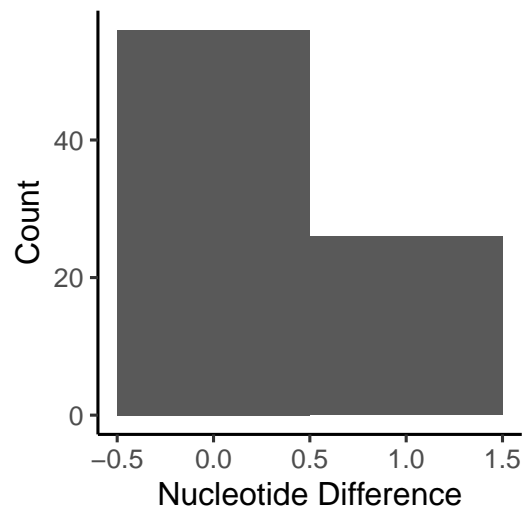
43 sequences assigned  
43 (100%) exact matches, in which:  
43 unique CDR3  
12 unique J





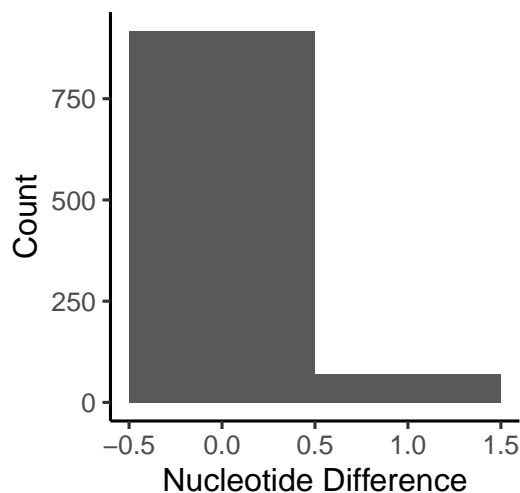
### TRBV6–9\*ap01

82 sequences assigned  
56 (68.3%) exact matches, in which:  
56 unique CDR3  
12 unique J



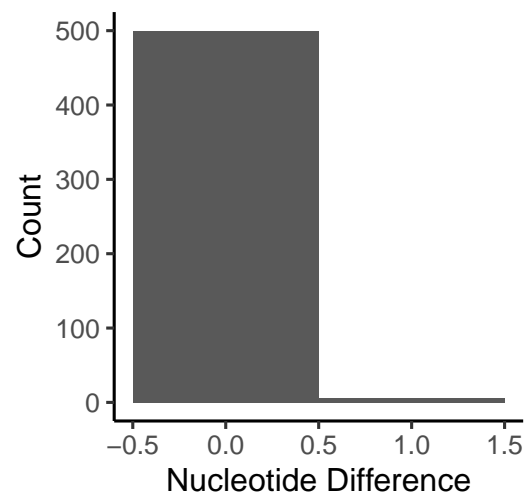
### TRBV6–56\*ap02

989 sequences assigned  
918 (92.8%) exact matches, in which:  
907 unique CDR3  
13 unique J



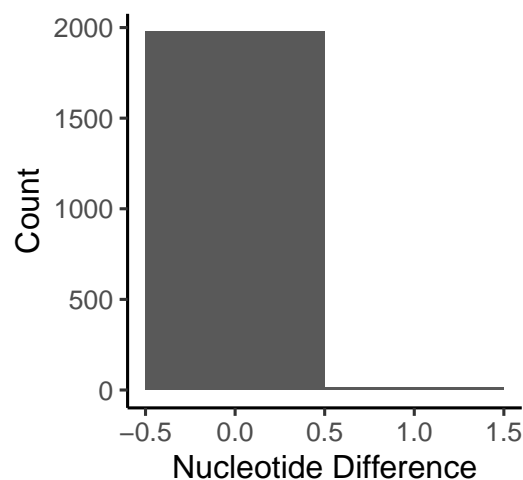
### TRBV7–3\*ap01

506 sequences assigned  
500 (98.8%) exact matches, in which:  
496 unique CDR3  
13 unique J



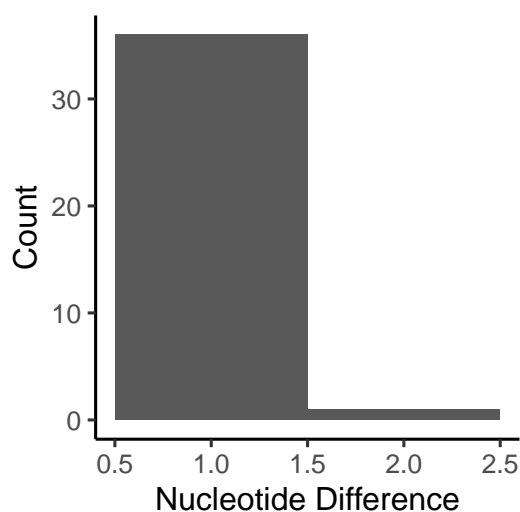
### TRBV6–23\*ap01

1989 sequences assigned  
1977 (99.4%) exact matches, in which:  
1953 unique CDR3  
13 unique J



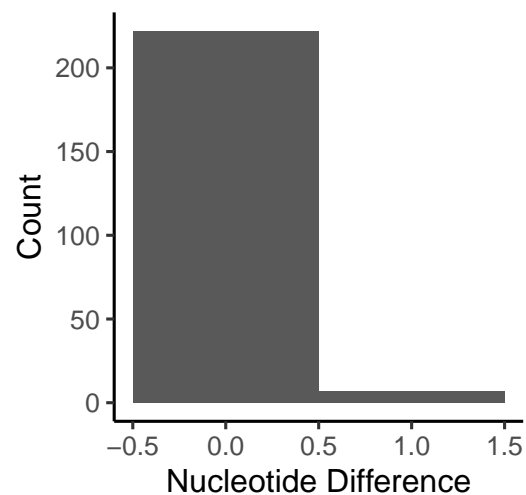
### TRBV7–1\*ap01\_T296C

37 sequences assigned  
No exact matches.



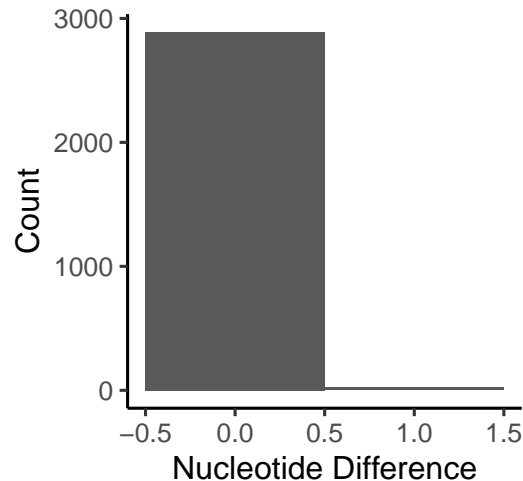
### TRBV7–3\*ap03

229 sequences assigned  
222 (96.9%) exact matches, in which:  
219 unique CDR3  
13 unique J



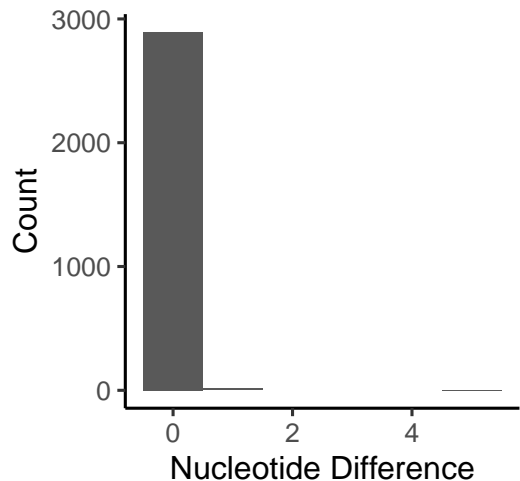
### TRBV6–56\*ap01

2913 sequences assigned  
2890 (99.2%) exact matches, in which:  
2851 unique CDR3  
13 unique J



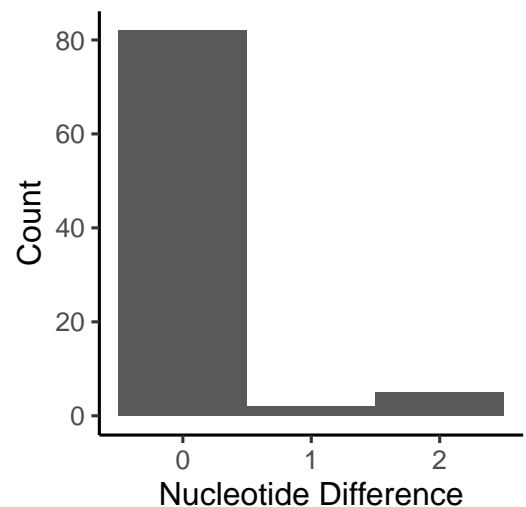
### TRBV7–2\*ap01

2910 sequences assigned  
2894 (99.5%) exact matches, in which:  
2868 unique CDR3  
13 unique J



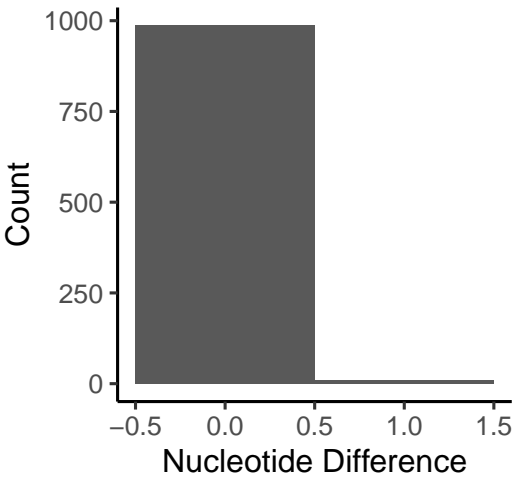
### TRBV7–4\*ap01

89 sequences assigned  
82 (92.1%) exact matches, in which:  
80 unique CDR3  
12 unique J



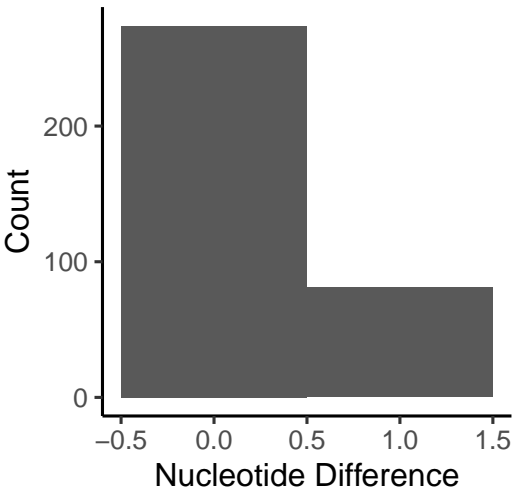
TRBV7-6\*ap01

998 sequences assigned  
987 (98.9%) exact matches, in which:  
977 unique CDR3  
13 unique J



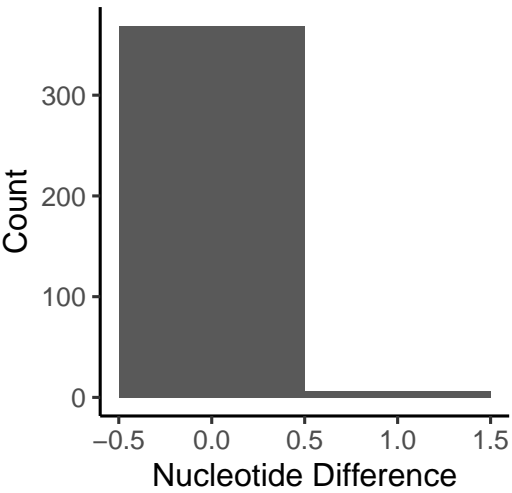
TRBV7-8\*ap03

355 sequences assigned  
274 (77.2%) exact matches, in which:  
273 unique CDR3  
13 unique J



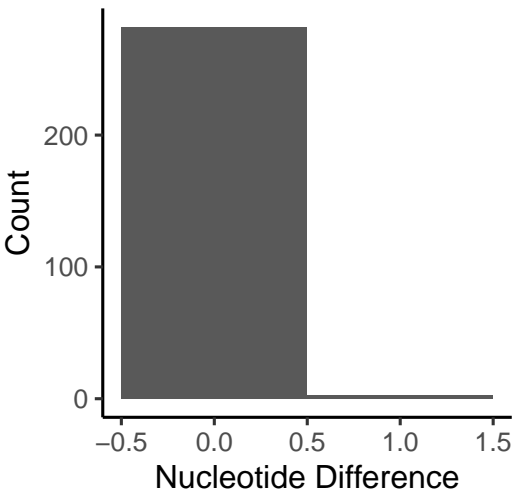
TRBV29-1\*ap02

375 sequences assigned  
369 (98.4%) exact matches, in which:  
363 unique CDR3  
13 unique J



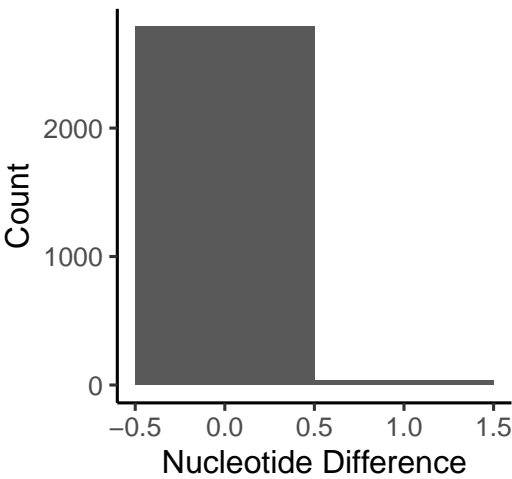
TRBV7-7\*ap01\_C315T

285 sequences assigned  
282 (98.9%) exact matches, in which:  
280 unique CDR3  
13 unique J



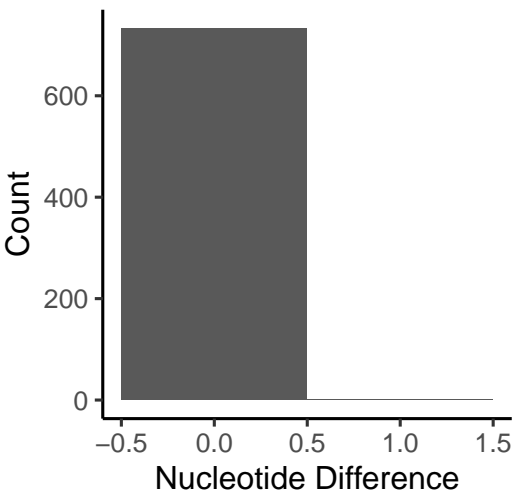
TRBV7-9\*ap01

2823 sequences assigned  
2789 (98.8%) exact matches, in which:  
2762 unique CDR3  
13 unique J



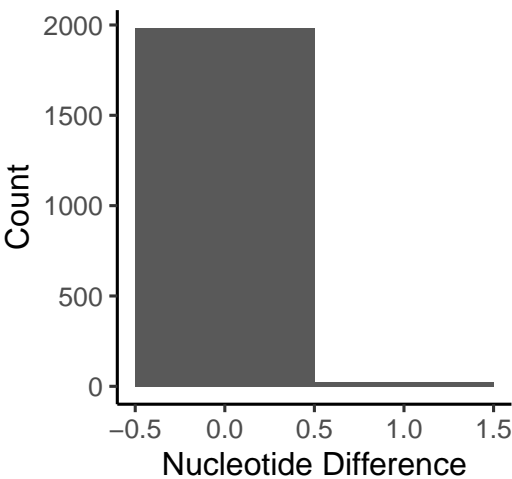
TRBV7-8\*ap01

734 sequences assigned  
733 (99.9%) exact matches, in which:  
724 unique CDR3  
13 unique J



TRBV29-1\*ap01

2007 sequences assigned  
1983 (98.8%) exact matches, in which:  
1960 unique CDR3  
13 unique J



TRBV7-7\*ap01\_C315T

