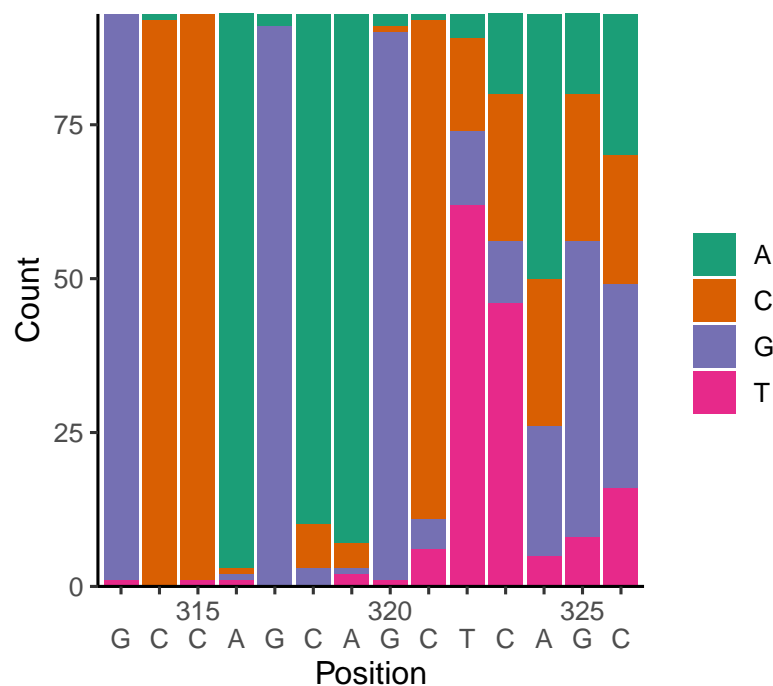
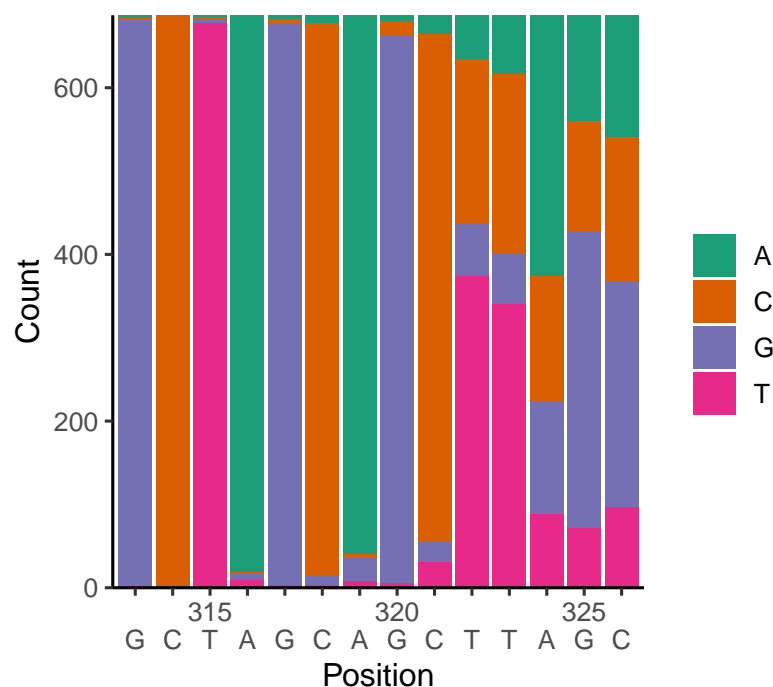


Gene TRBV7-1\*ap01\_G291C\_T296C



Gene TRBV7-7\*ap01\_C315T



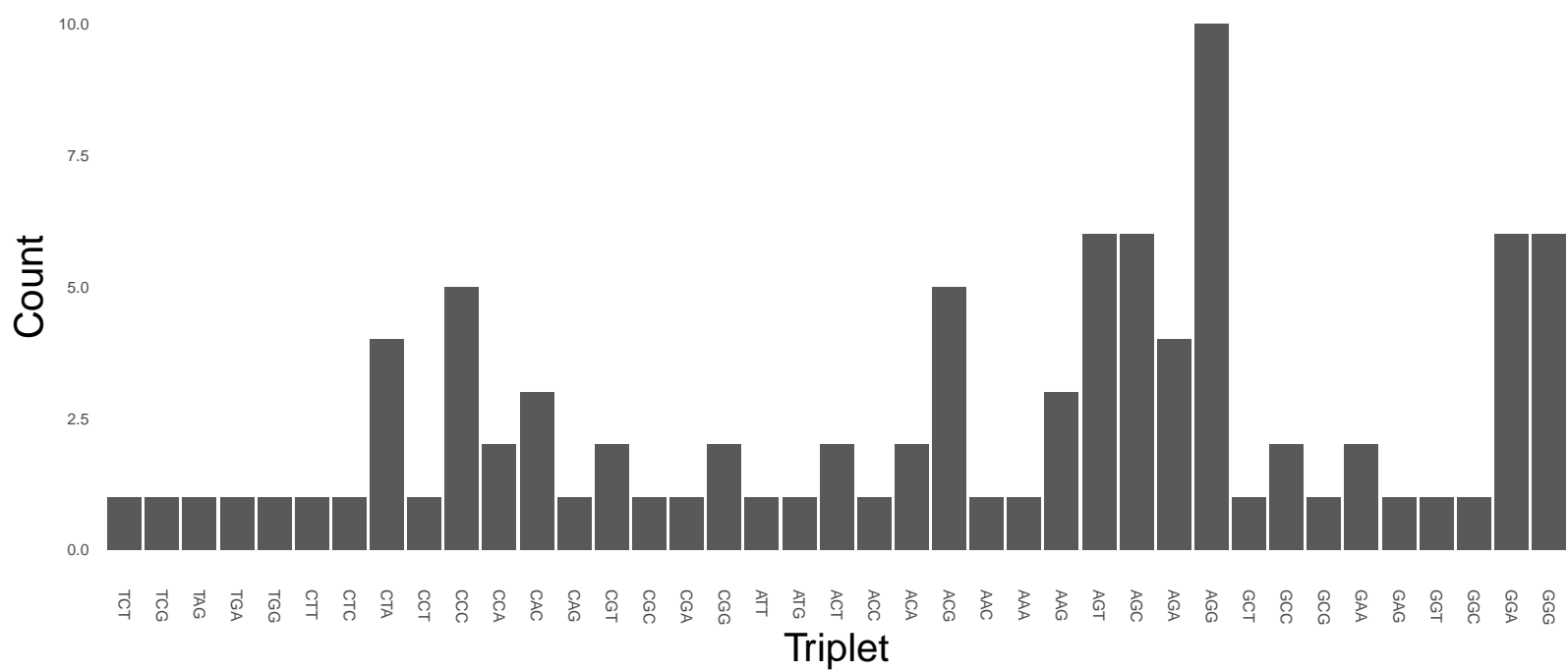
Gene TRBV7-1\*ap01\_G291C\_T296C



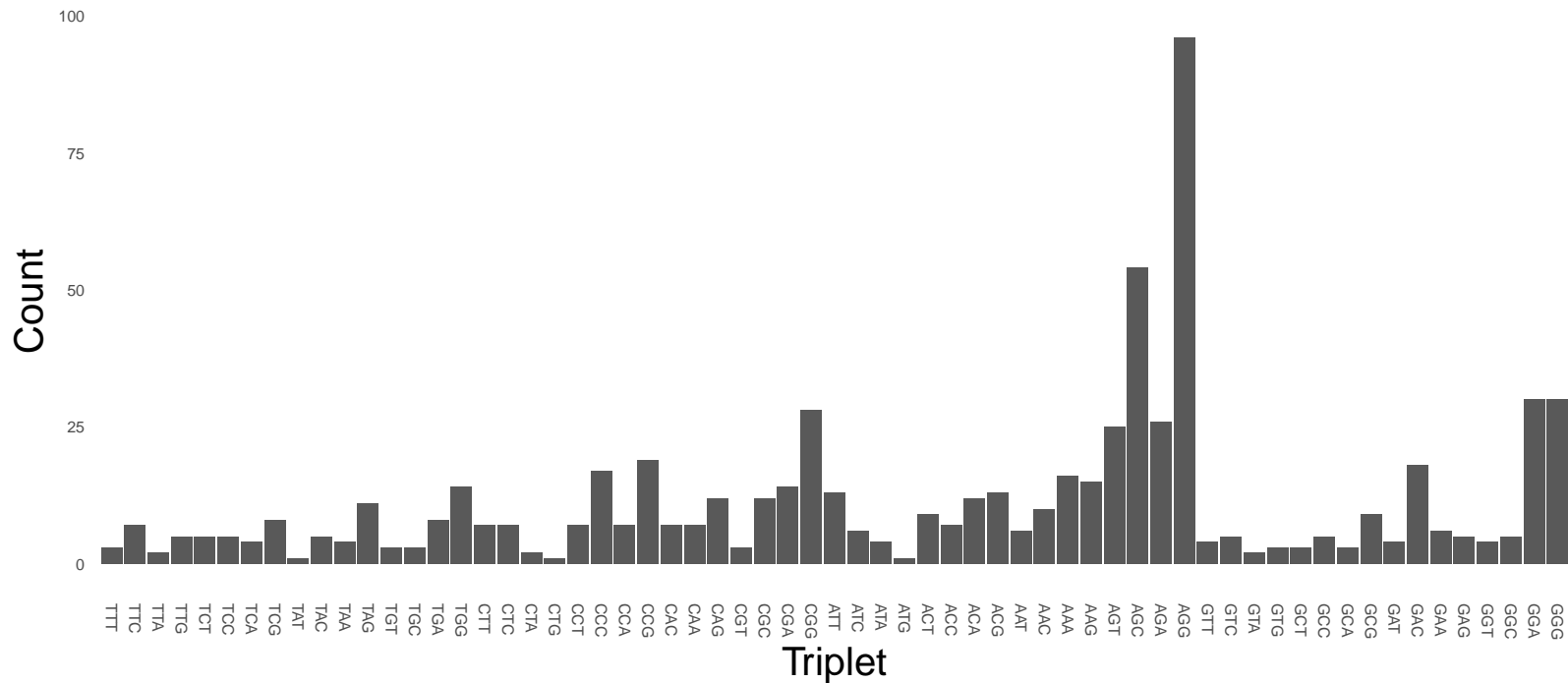
Gene TRBV7-7\*ap01\_C315T



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

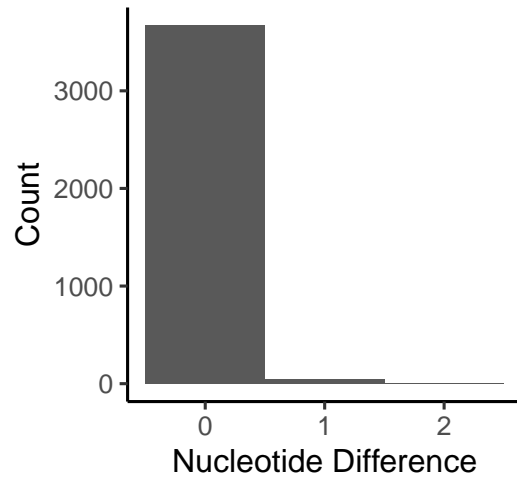


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



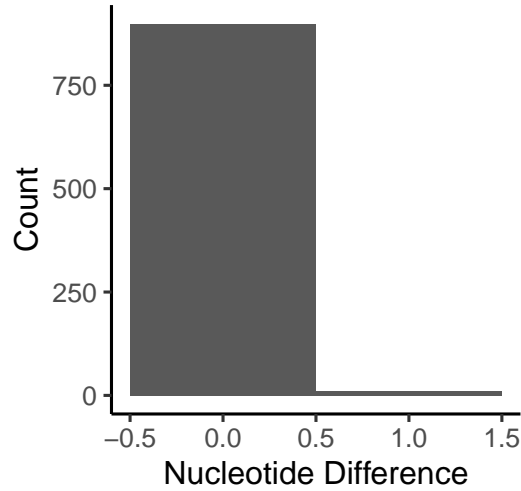
### TRBV20-1\*ap01

3720 sequences assigned  
3670 (98.7%) exact matches, in which:  
3621 unique CDR3  
13 unique J



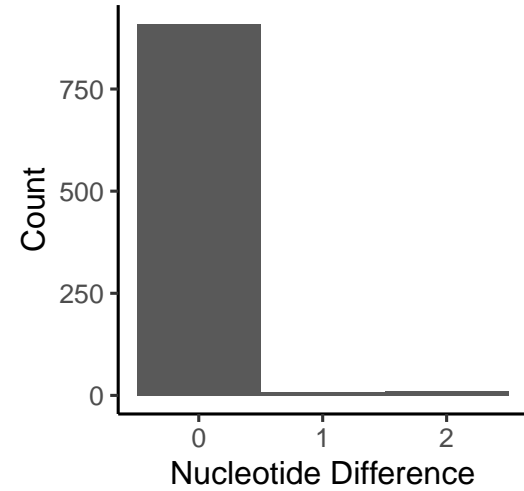
### TRBV10-2\*ap01

910 sequences assigned  
899 (98.8%) exact matches, in which:  
877 unique CDR3  
13 unique J



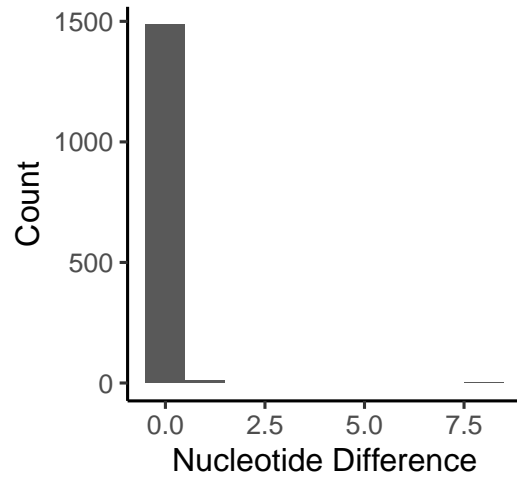
### TRBV13\*ap01

928 sequences assigned  
910 (98.1%) exact matches, in which:  
884 unique CDR3  
13 unique J



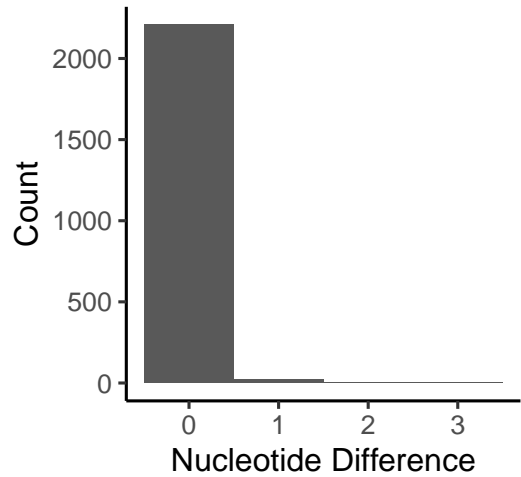
### TRBV10-1\*ap01

1497 sequences assigned  
1486 (99.3%) exact matches, in which:  
1458 unique CDR3  
13 unique J



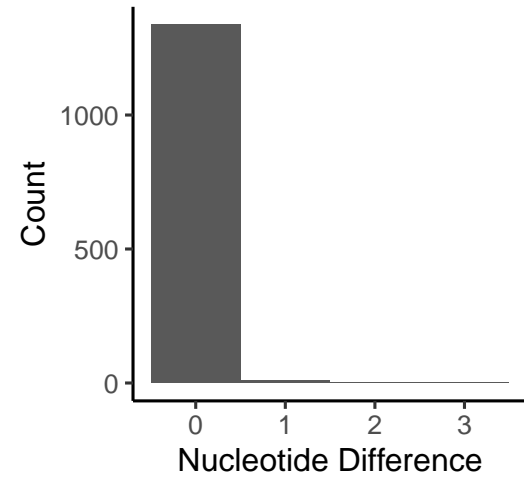
### TRBV10-3\*ap01

2235 sequences assigned  
2208 (98.8%) exact matches, in which:  
2172 unique CDR3  
13 unique J



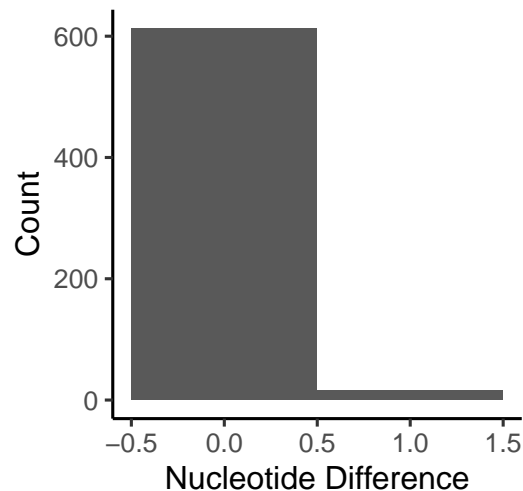
### TRBV14\*ap01

1347 sequences assigned  
1337 (99.3%) exact matches, in which:  
1325 unique CDR3  
13 unique J



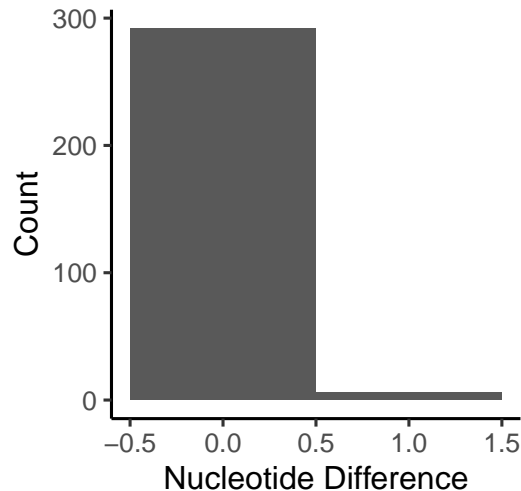
### TRBV20-1\*ap02

628 sequences assigned  
613 (97.6%) exact matches, in which:  
605 unique CDR3  
13 unique J



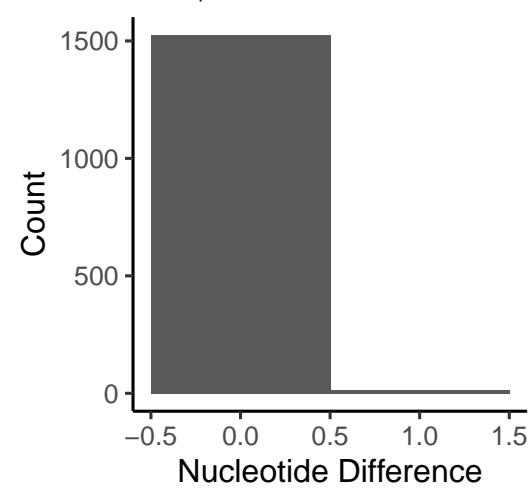
### TRBV1\*ap01

298 sequences assigned  
292 (98%) exact matches, in which:  
284 unique CDR3  
13 unique J



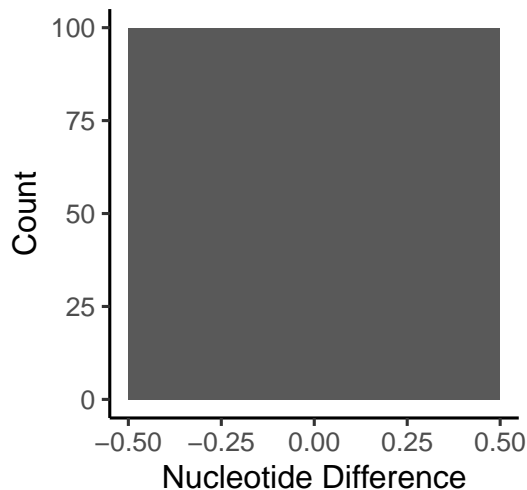
### TRBV15\*ap02

1540 sequences assigned  
1525 (99%) exact matches, in which:  
1500 unique CDR3  
13 unique J



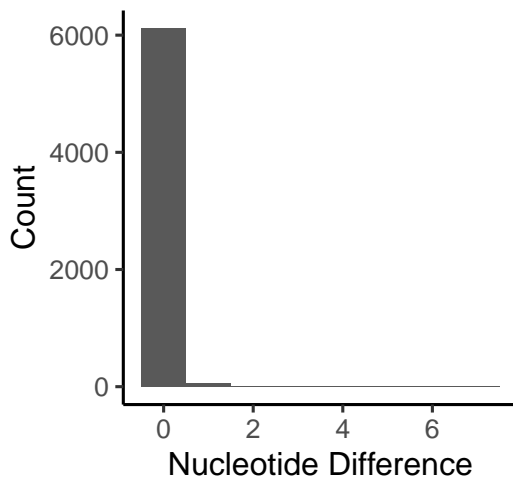
### TRBV16\*ap01

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



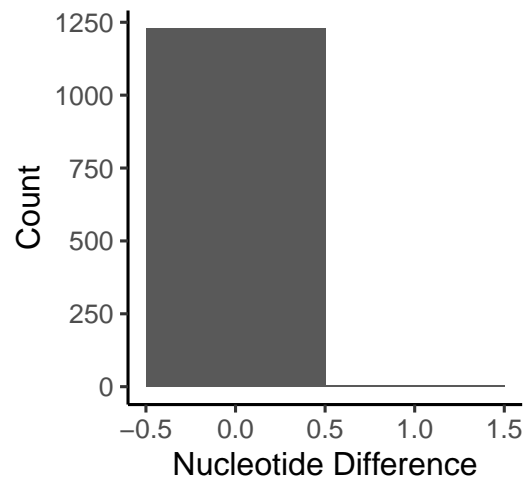
### TRBV19\*ap01

6194 sequences assigned  
6115 (98.7%) exact matches, in which:  
6049 unique CDR3  
13 unique J



### TRBV28\*ap01

1235 sequences assigned  
1229 (99.5%) exact matches, in which:  
1206 unique CDR3  
13 unique J



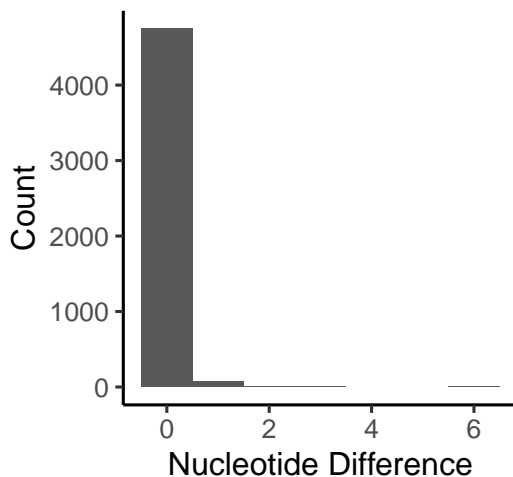
### TRBV17\*ap01

1 sequences assigned  
No exact matches.



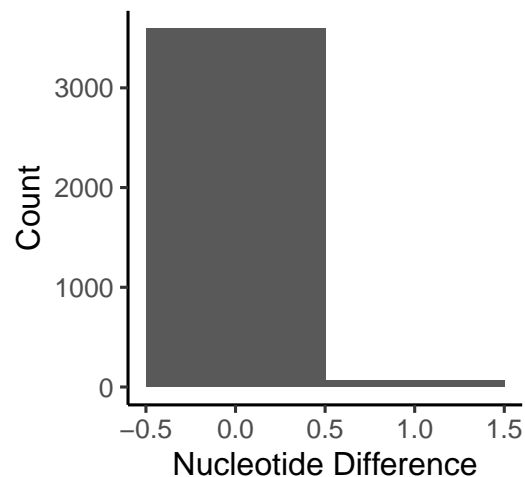
### TRBV2\*ap01

4833 sequences assigned  
4747 (98.2%) exact matches, in which:  
4636 unique CDR3  
13 unique J



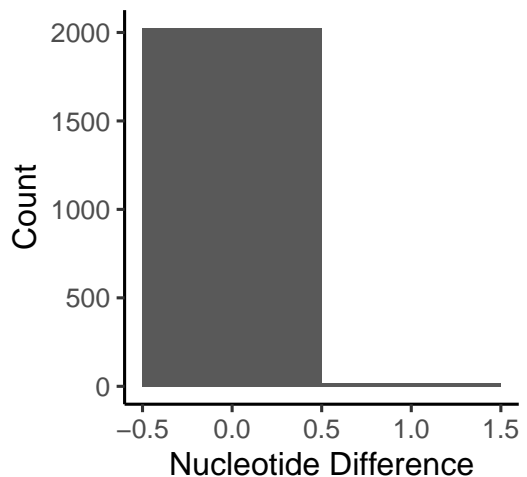
### TRBV30\*ap01

3656 sequences assigned  
3593 (98.3%) exact matches, in which:  
3523 unique CDR3  
13 unique J



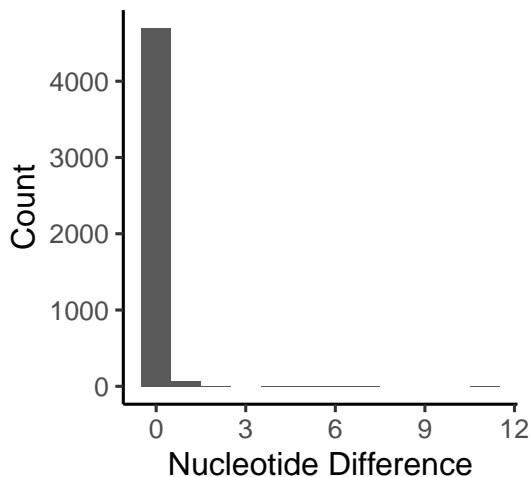
### TRBV18\*ap01

2042 sequences assigned  
2025 (99.2%) exact matches, in which:  
2008 unique CDR3  
13 unique J



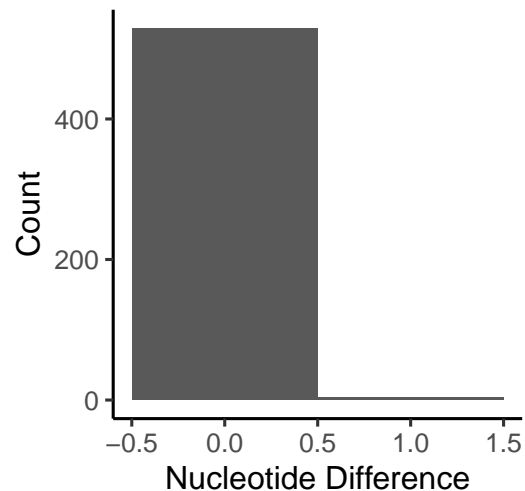
### TRBV27\*ap01

4775 sequences assigned  
4697 (98.4%) exact matches, in which:  
4589 unique CDR3  
13 unique J



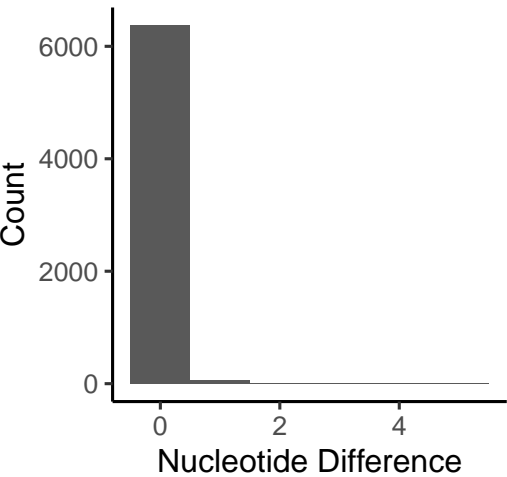
### TRBV30\*ap03

533 sequences assigned  
529 (99.2%) exact matches, in which:  
520 unique CDR3  
13 unique J



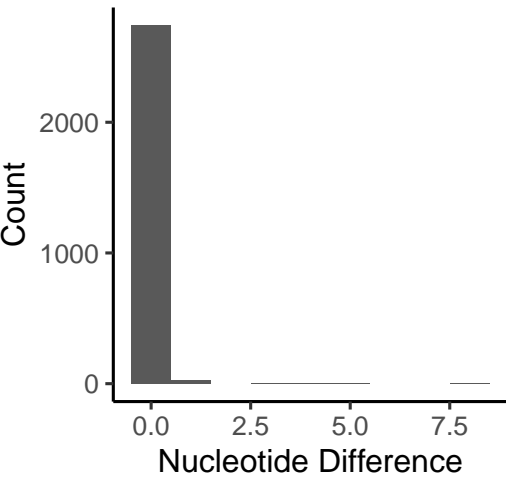
TRBV9\*ap01

6435 sequences assigned  
6372 (99%) exact matches, in which:  
6256 unique CDR3  
13 unique J



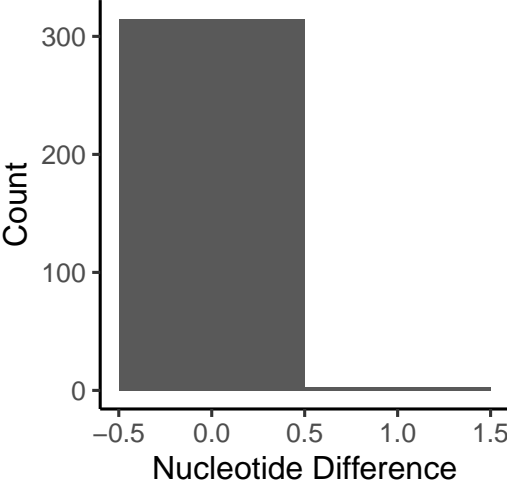
TRBV11-2\*ap01

2773 sequences assigned  
2741 (98.8%) exact matches, in which:  
2704 unique CDR3  
13 unique J



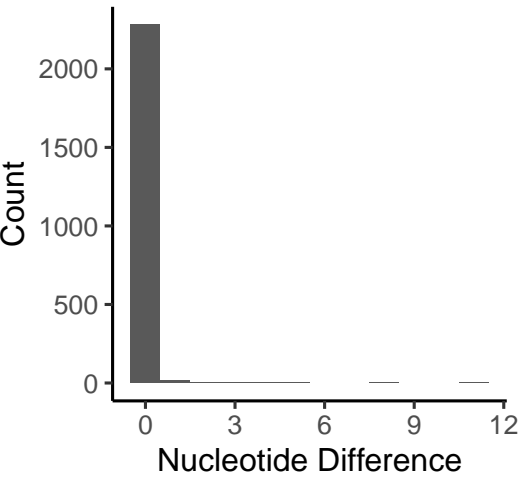
TRBV12-2\*ap01

318 sequences assigned  
315 (99.1%) exact matches, in which:  
308 unique CDR3  
13 unique J



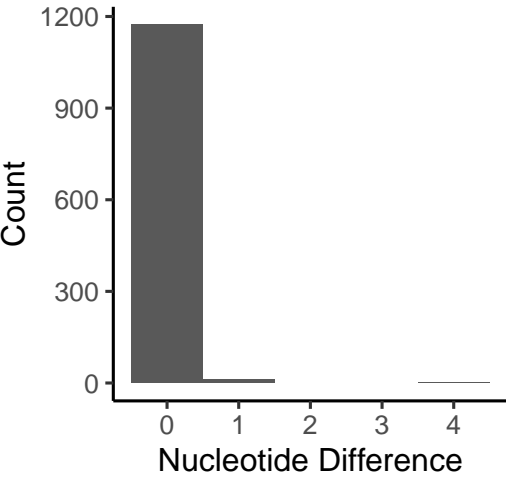
TRBV21-1\*ap01

2310 sequences assigned  
2281 (98.7%) exact matches, in which:  
2253 unique CDR3  
13 unique J



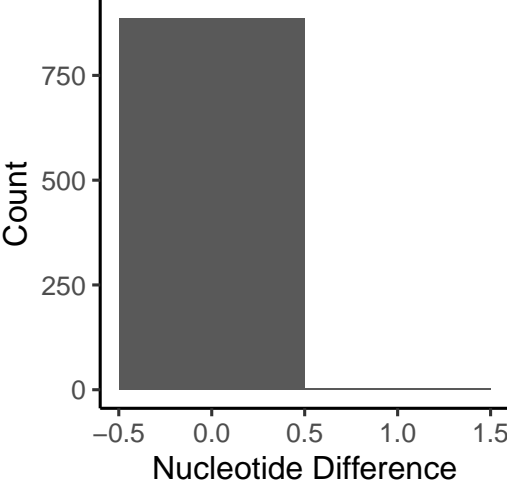
TRBV11-3\*ap01

1186 sequences assigned  
1173 (98.9%) exact matches, in which:  
1159 unique CDR3  
13 unique J



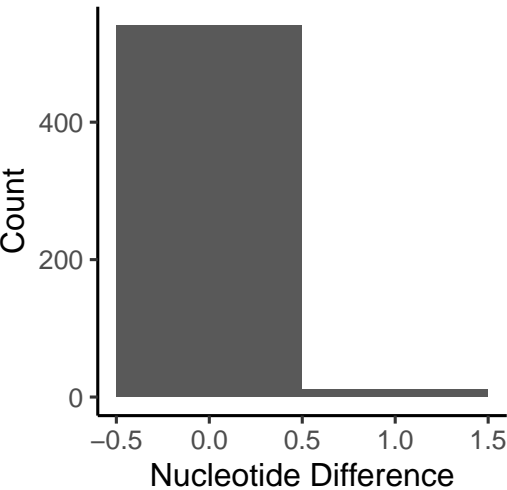
TRBV12-5\*ap01

891 sequences assigned  
887 (99.6%) exact matches, in which:  
872 unique CDR3  
13 unique J



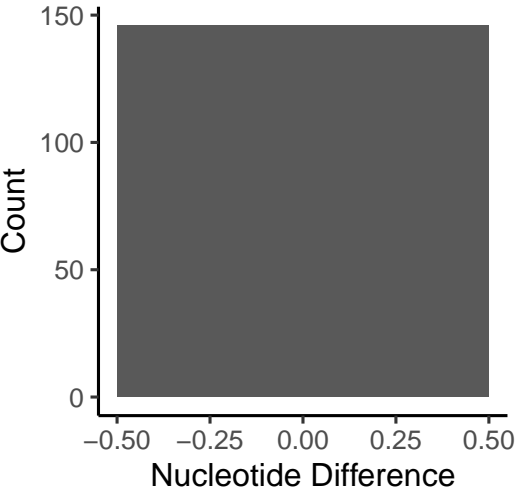
TRBV11-1\*ap01

552 sequences assigned  
541 (98%) exact matches, in which:  
534 unique CDR3  
13 unique J



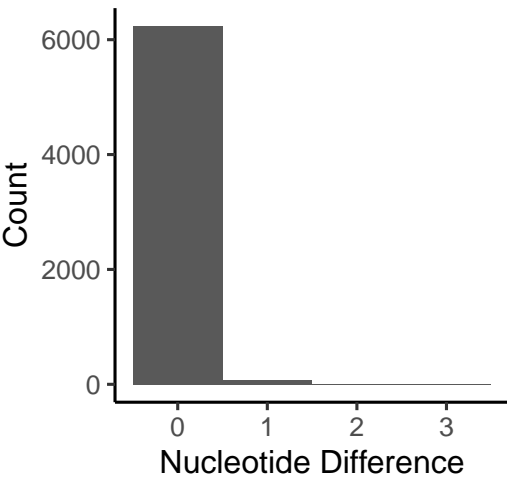
TRBV12-1\*ap01

146 sequences assigned  
146 (100%) exact matches, in which:  
144 unique CDR3  
12 unique J



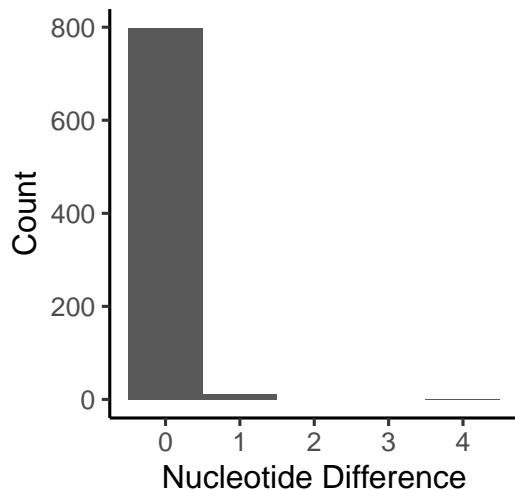
TRBV12-34\*ap01

6320 sequences assigned  
6237 (98.7%) exact matches, in which:  
6137 unique CDR3  
13 unique J



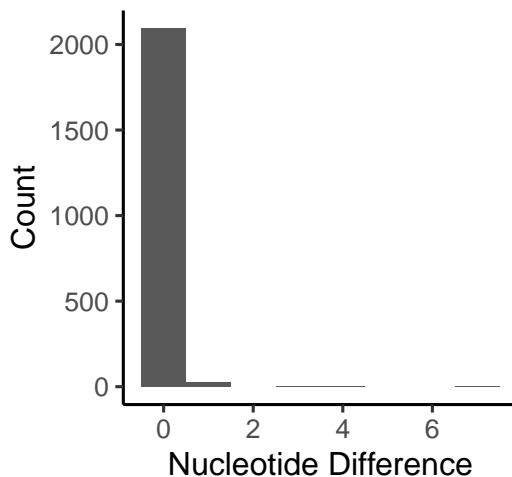
### TRBV23–1\*ap01

811 sequences assigned  
799 (98.5%) exact matches, in which:  
793 unique CDR3  
13 unique J



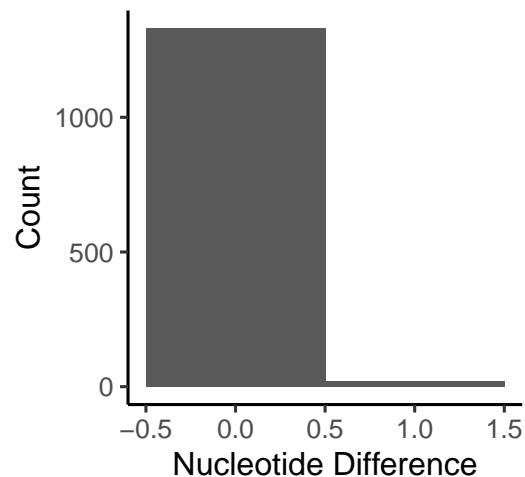
### TRBV24–1\*ap01

2123 sequences assigned  
2094 (98.6%) exact matches, in which:  
2057 unique CDR3  
13 unique J



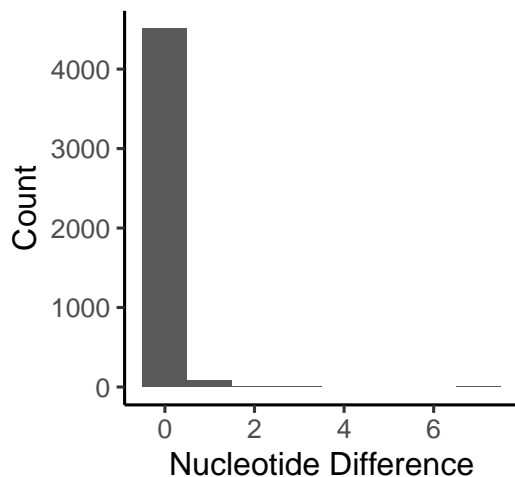
### TRBV25–1\*ap01

1349 sequences assigned  
1330 (98.6%) exact matches, in which:  
1308 unique CDR3  
13 unique J



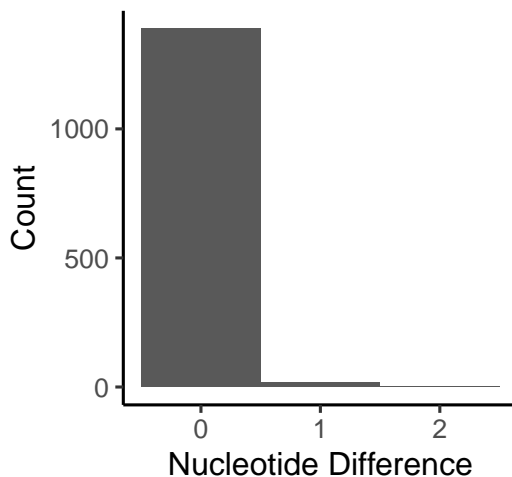
### TRBV3–12\*ap01

4592 sequences assigned  
4508 (98.2%) exact matches, in which:  
4399 unique CDR3  
13 unique J



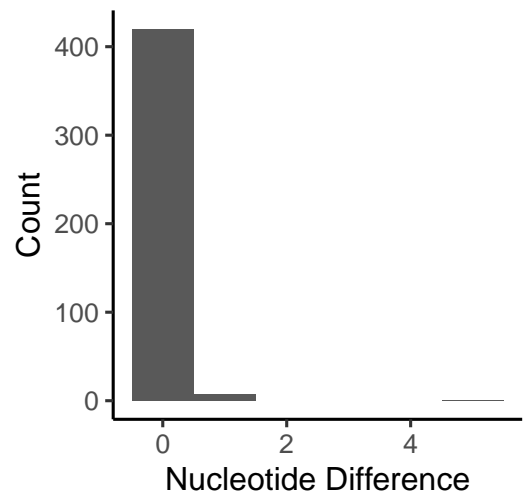
### TRBV4–2\*ap01

1408 sequences assigned  
1388 (98.6%) exact matches, in which:  
1361 unique CDR3  
13 unique J



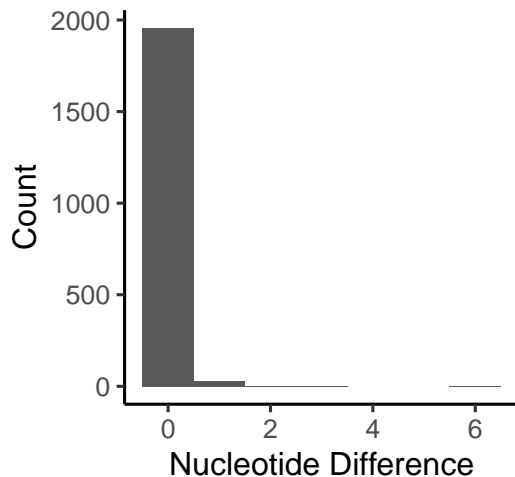
### TRBV5–3\*ap01

428 sequences assigned  
420 (98.1%) exact matches, in which:  
414 unique CDR3  
13 unique J



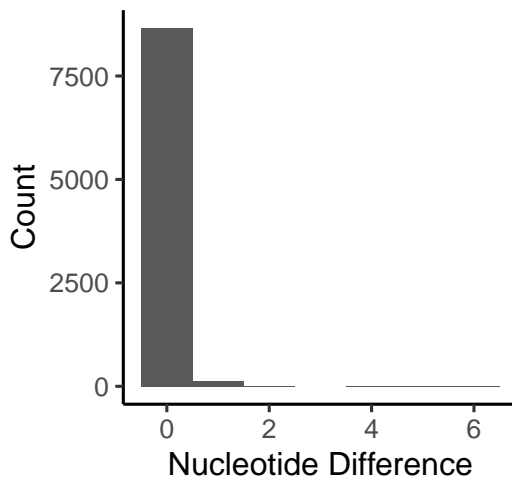
### TRBV4–1\*ap01

1988 sequences assigned  
1956 (98.4%) exact matches, in which:  
1915 unique CDR3  
13 unique J



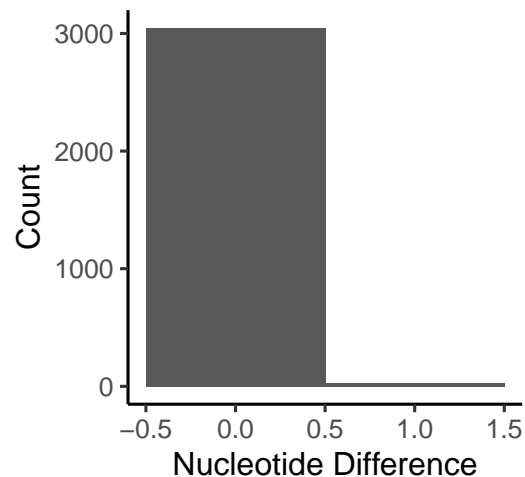
### TRBV5–1\*ap01

8808 sequences assigned  
8659 (98.3%) exact matches, in which:  
8428 unique CDR3  
14 unique J



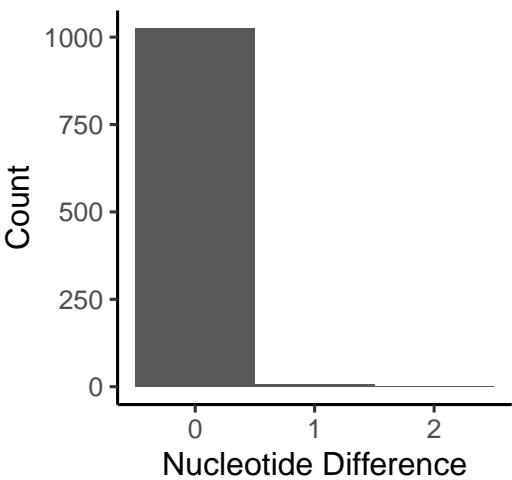
### TRBV5–4\*ap01

3076 sequences assigned  
3046 (99%) exact matches, in which:  
2984 unique CDR3  
13 unique J



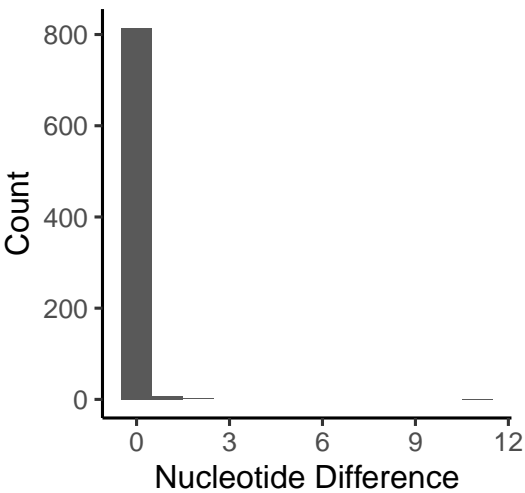
TRBV5-5\*ap01

1035 sequences assigned  
1025 (99%) exact matches, in which:  
1009 unique CDR3  
13 unique J



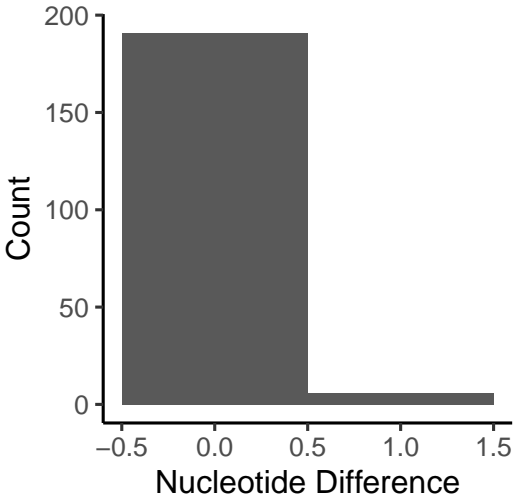
TRBV5-8\*ap01

826 sequences assigned  
815 (98.7%) exact matches, in which:  
803 unique CDR3  
13 unique J



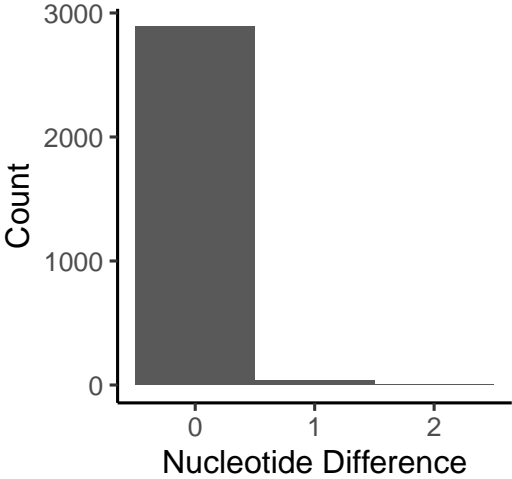
TRBV6-7\*ap01

197 sequences assigned  
191 (97%) exact matches, in which:  
187 unique CDR3  
13 unique J



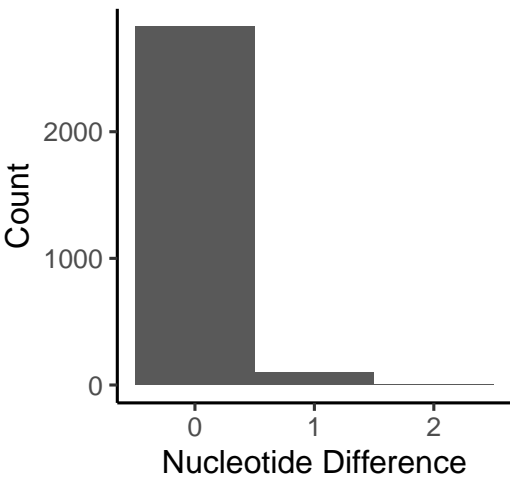
TRBV5-6\*ap01

2924 sequences assigned  
2889 (98.8%) exact matches, in which:  
2809 unique CDR3  
13 unique J



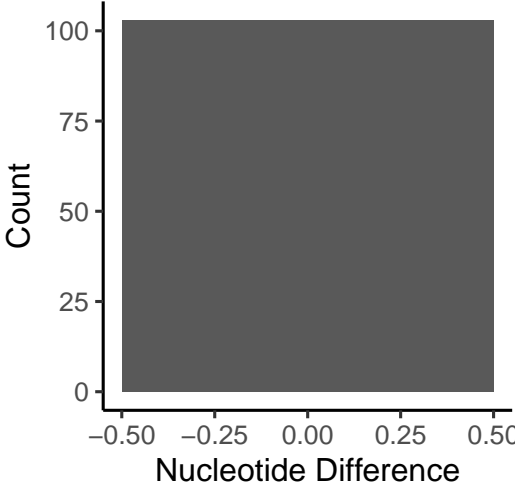
TRBV6-1\*ap01

2928 sequences assigned  
2829 (96.6%) exact matches, in which:  
2771 unique CDR3  
13 unique J



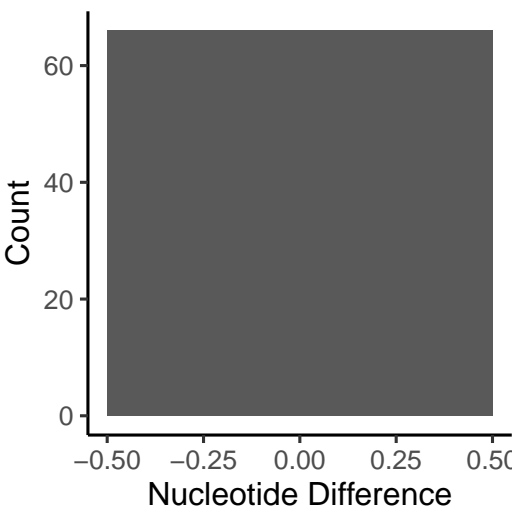
TRBV6-8\*ap01

103 sequences assigned  
103 (100%) exact matches, in which:  
99 unique CDR3  
12 unique J



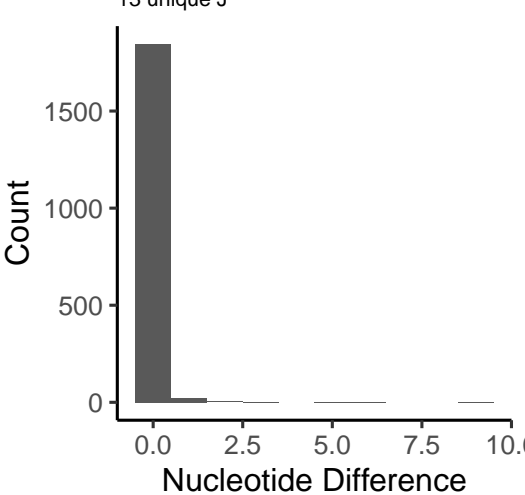
TRBV5-7\*ap01

66 sequences assigned  
66 (100%) exact matches, in which:  
65 unique CDR3  
11 unique J



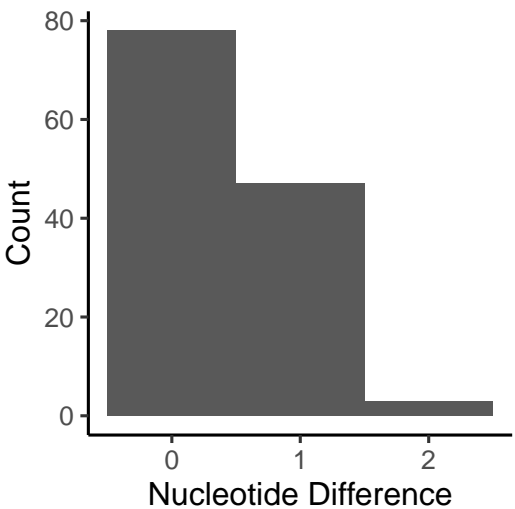
TRBV6-4\*ap01

1877 sequences assigned  
1845 (98.3%) exact matches, in which:  
1813 unique CDR3  
13 unique J



TRBV6-9\*ap01

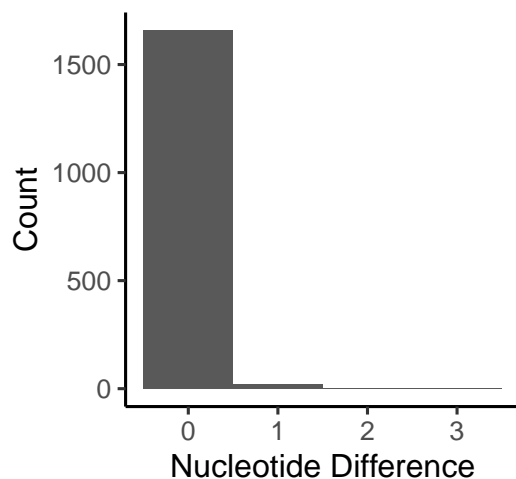
128 sequences assigned  
78 (60.9%) exact matches, in which:  
76 unique CDR3  
12 unique J





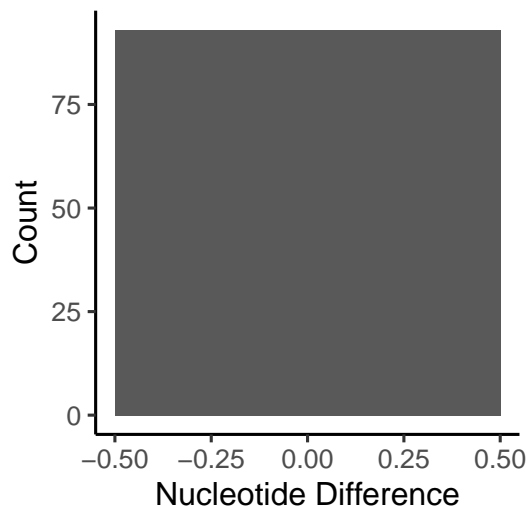
### TRBV6-23\*ap01

1681 sequences assigned  
1658 (98.6%) exact matches, in which:  
1618 unique CDR3  
13 unique J



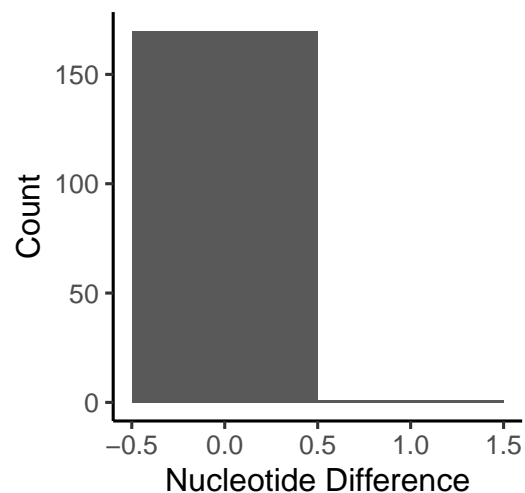
### TRBV7-1\*ap01\_G291C\_T

93 sequences assigned  
93 (100%) exact matches, in which:  
93 unique CDR3  
13 unique J



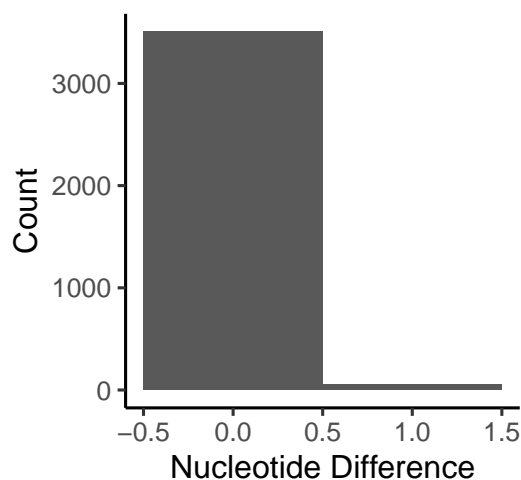
### TRBV7-4\*ap01

171 sequences assigned  
170 (99.4%) exact matches, in which:  
167 unique CDR3  
13 unique J



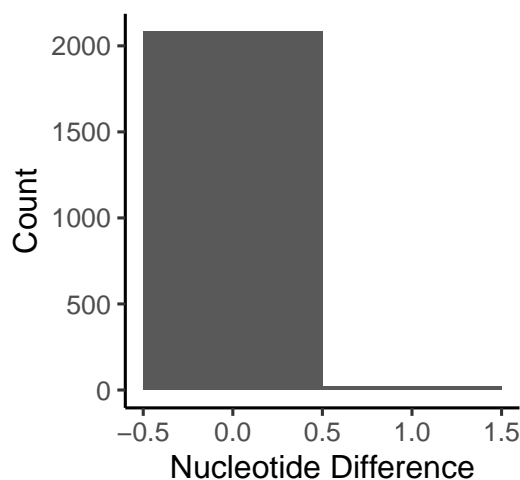
### TRBV6-56\*ap01

3556 sequences assigned  
3506 (98.6%) exact matches, in which:  
3433 unique CDR3  
13 unique J



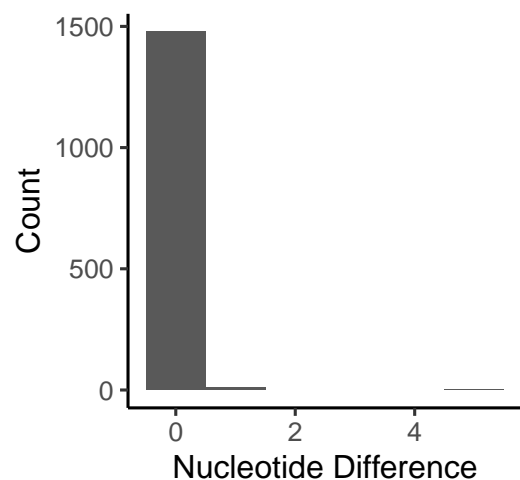
### TRBV7-2\*ap01

2103 sequences assigned  
2082 (99%) exact matches, in which:  
2052 unique CDR3  
13 unique J



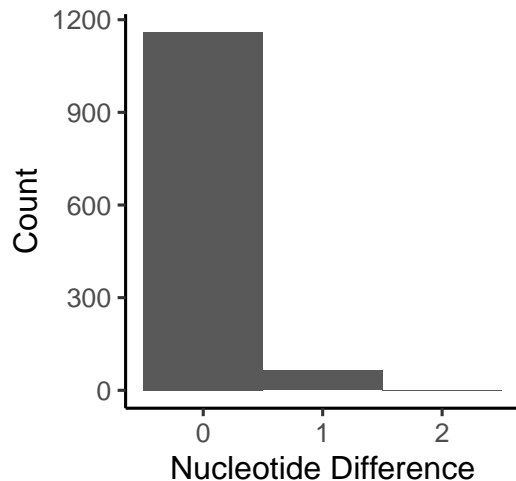
### TRBV7-6\*ap01

1491 sequences assigned  
1478 (99.1%) exact matches, in which:  
1441 unique CDR3  
14 unique J



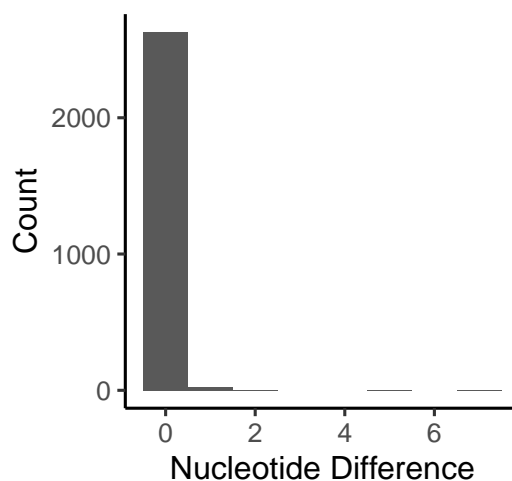
### TRBV6-56\*ap02

1225 sequences assigned  
1160 (94.7%) exact matches, in which:  
1134 unique CDR3  
13 unique J



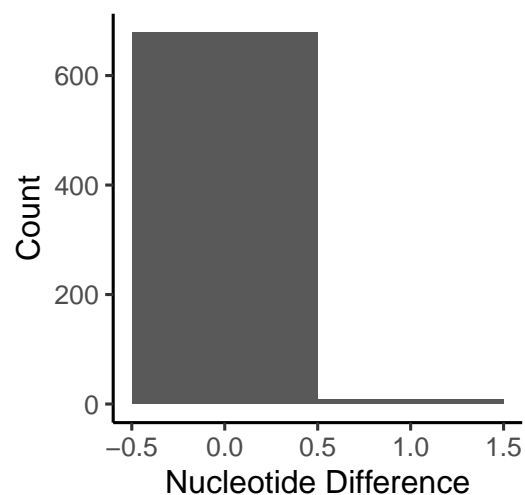
### TRBV7-3\*ap01

2662 sequences assigned  
2629 (98.8%) exact matches, in which:  
2590 unique CDR3  
13 unique J



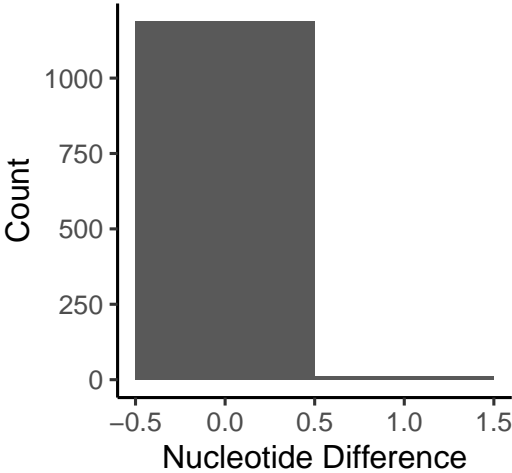
### TRBV7-7\*ap01\_C315T

687 sequences assigned  
679 (98.8%) exact matches, in which:  
672 unique CDR3  
13 unique J



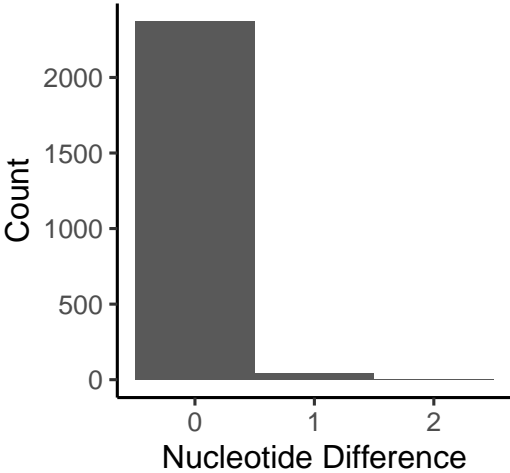
TRBV7-8\*ap01

1198 sequences assigned  
1188 (99.2%) exact matches, in which:  
1170 unique CDR3  
13 unique J



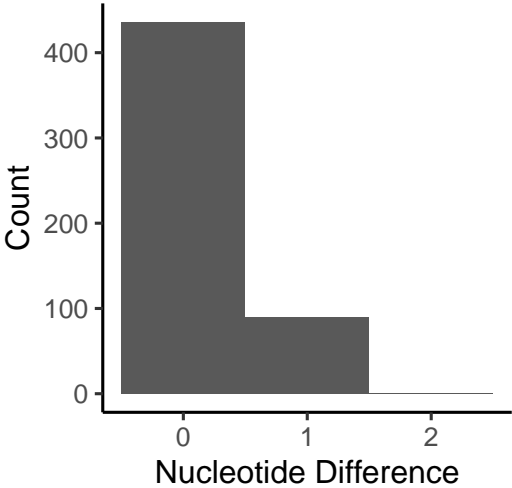
TRBV29-1\*ap01

2413 sequences assigned  
2371 (98.3%) exact matches, in which:  
2311 unique CDR3  
13 unique J



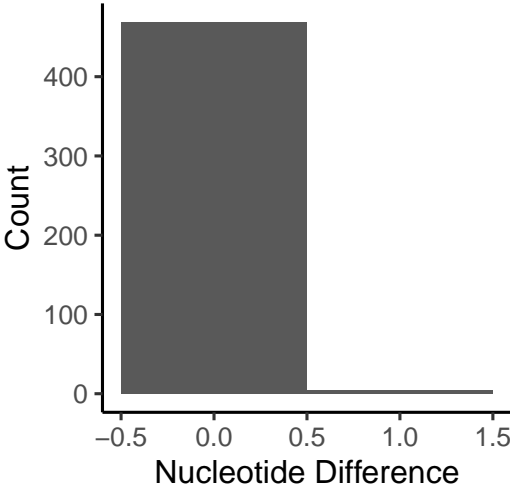
TRBV7-8\*ap03

527 sequences assigned  
436 (82.7%) exact matches, in which:  
423 unique CDR3  
13 unique J



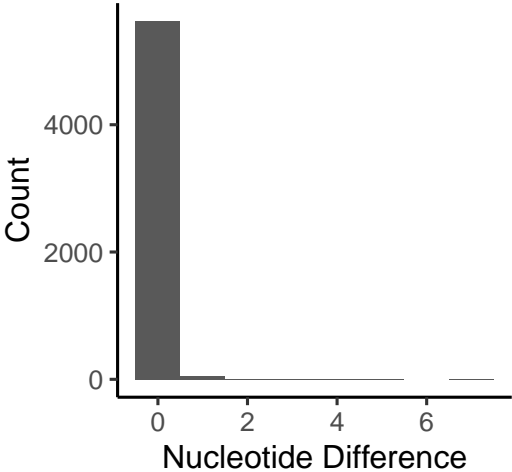
TRBV29-1\*ap02

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

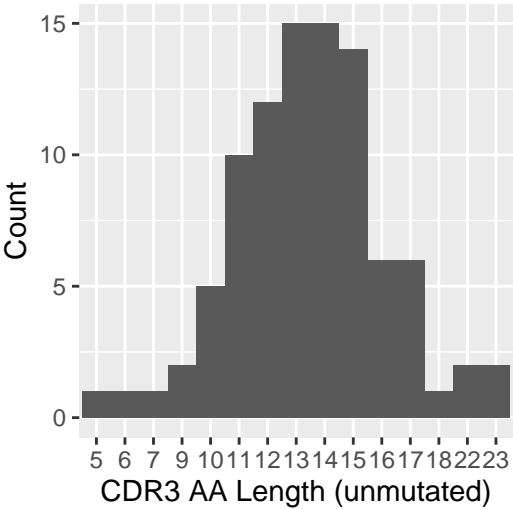


TRBV7-9\*ap01

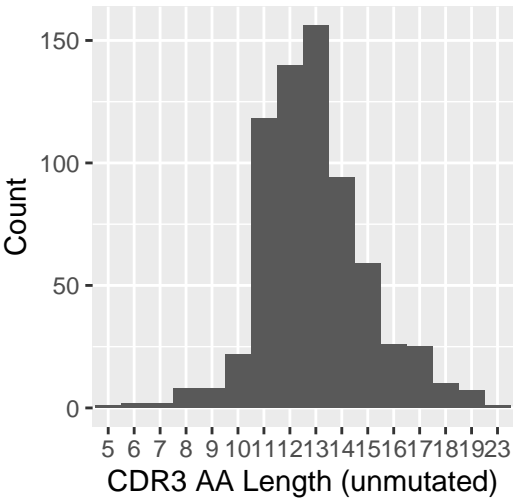
5702 sequences assigned  
5629 (98.7%) exact matches, in which:  
5557 unique CDR3  
13 unique J



TRBV7-1\*ap01\_G291C\_T296C



TRBV7-7\*ap01\_C315T





[illegible]