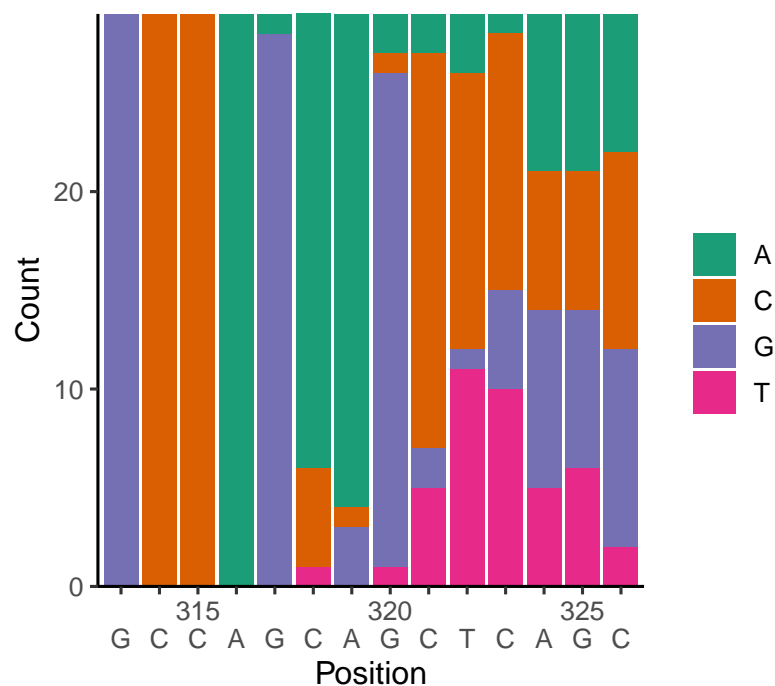
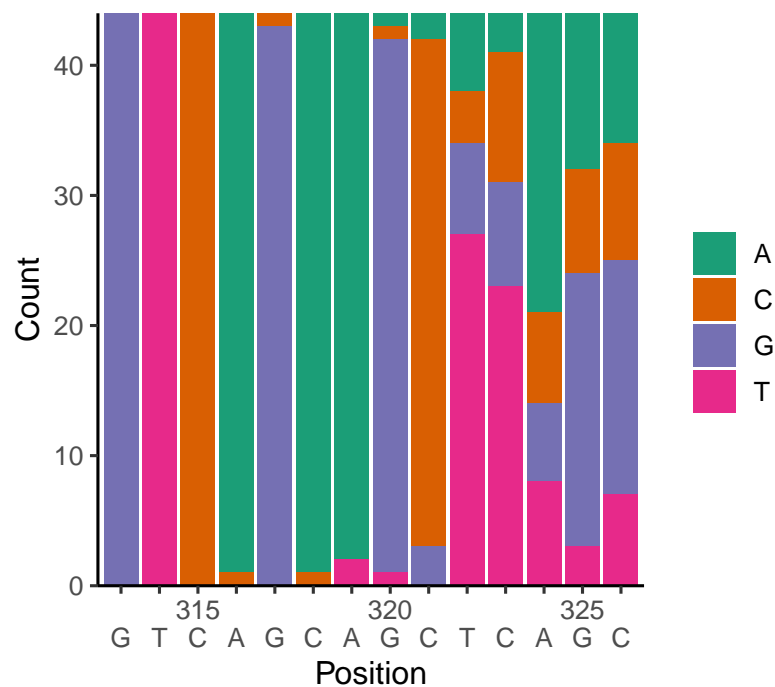


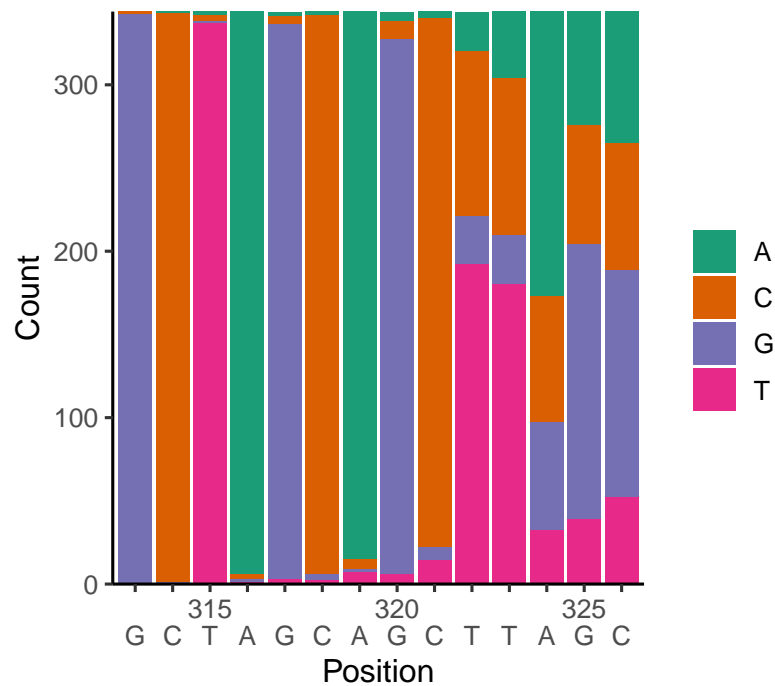
Gene TRBV7-1\*ap01\_T296C



Gene TRBV7-1\*ap01\_T296C\_C314T



Gene TRBV7-7\*ap01\_C315T



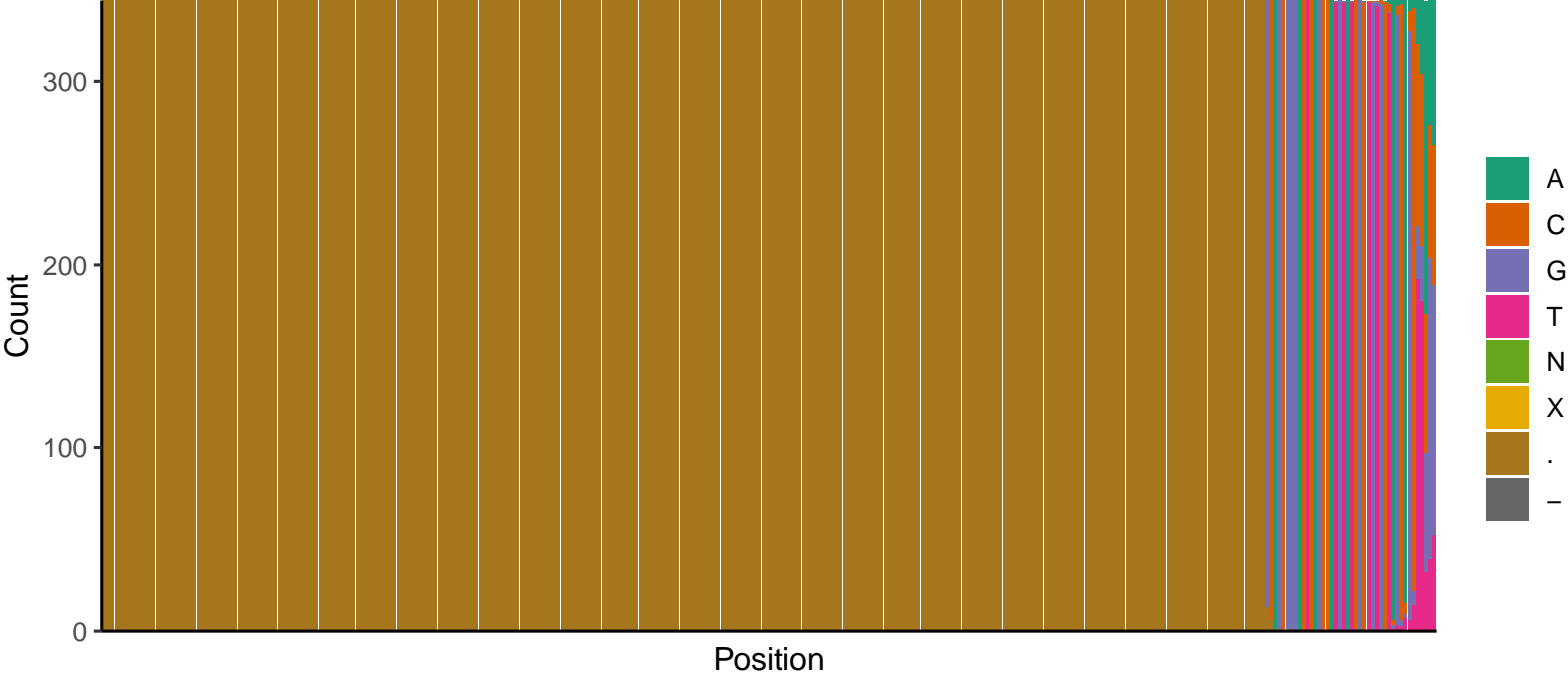
Gene TRBV7-1\*ap01\_T296C



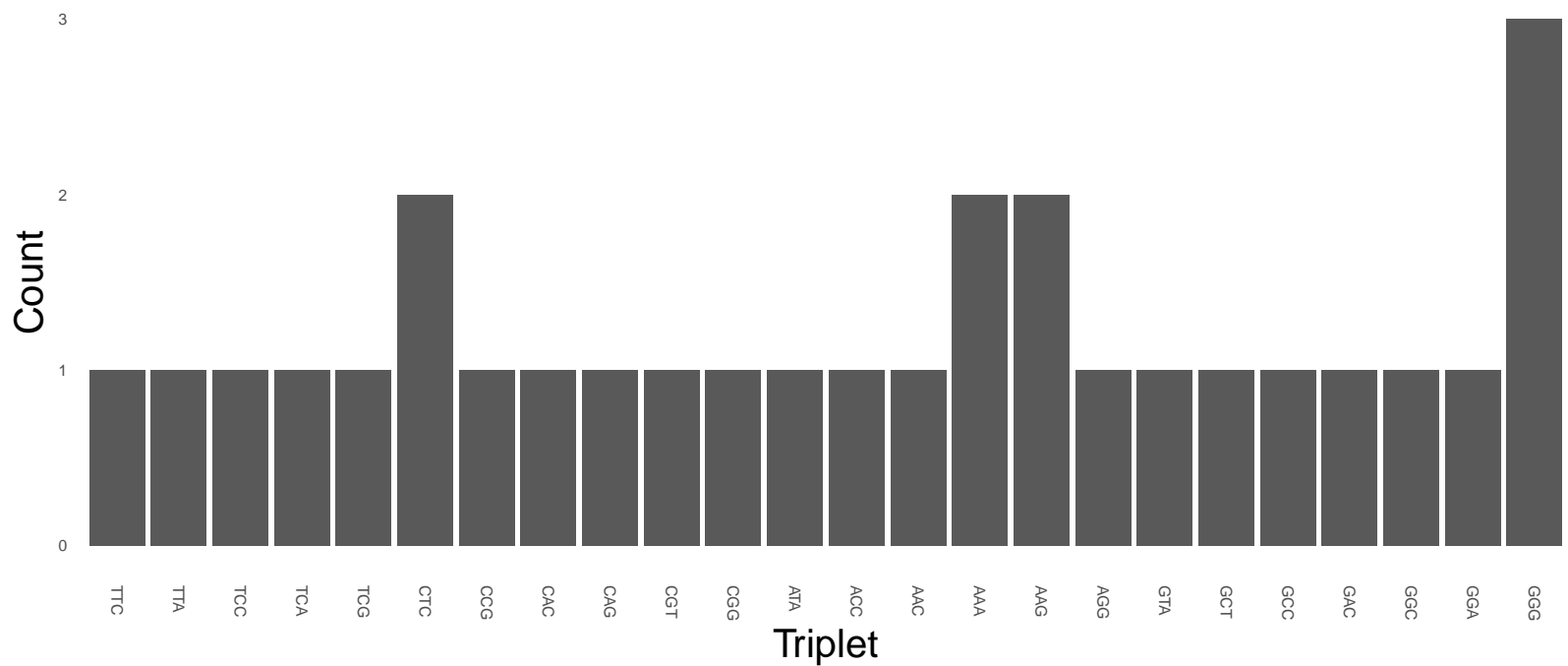
Gene TRBV7-1\*ap01\_T296C\_C314T



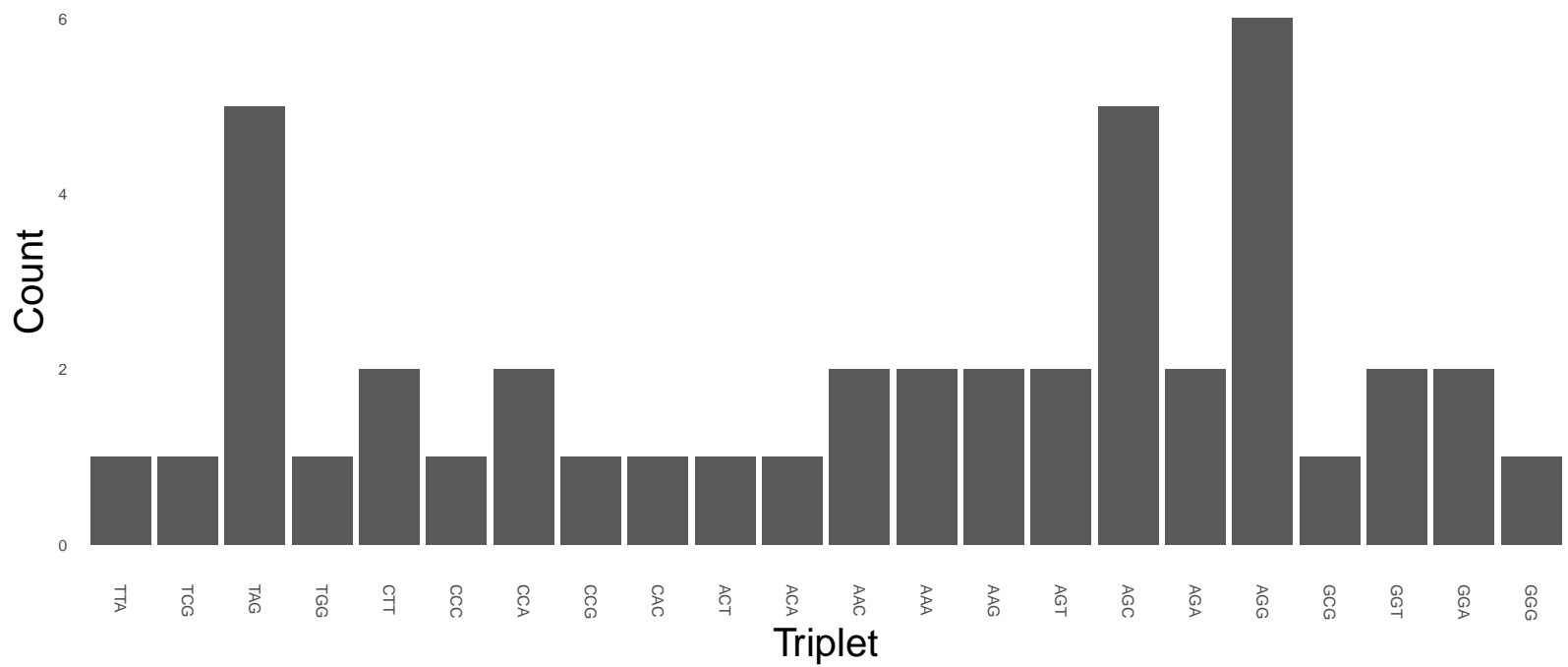
Gene TRBV7-7\*ap01\_C315T



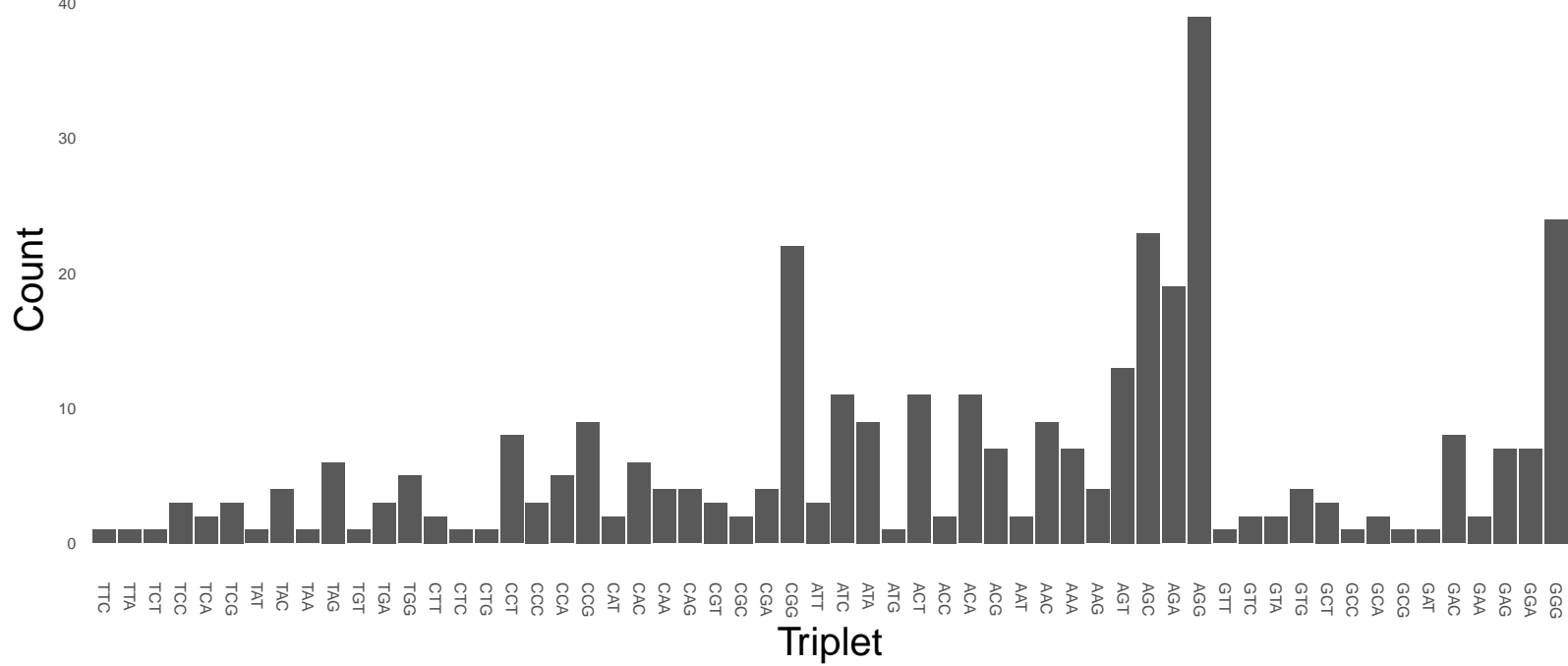
TRBV7-1\*ap01\_T296C- Final 3 nucleotides as a triplet



TRBV7-1\*ap01\_T296C\_C314T- Final 3 nucleotides as a triplet

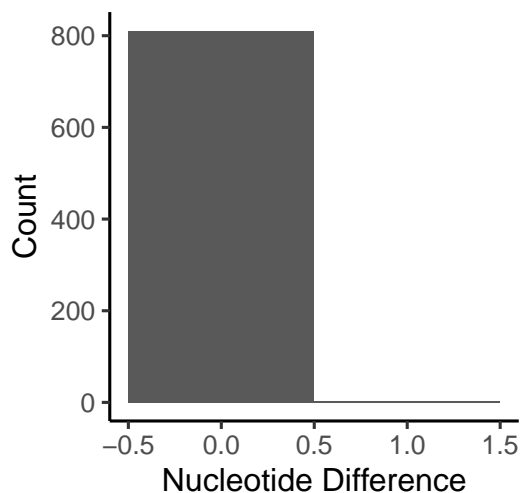


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



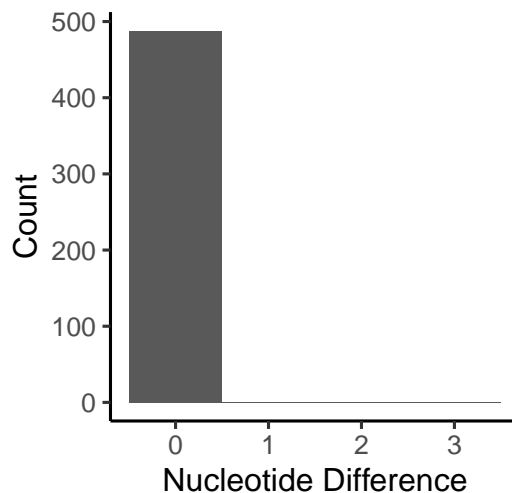
### TRBV10–1\*ap01

814 sequences assigned  
811 (99.6%) exact matches, in which:  
808 unique CDR3  
13 unique J



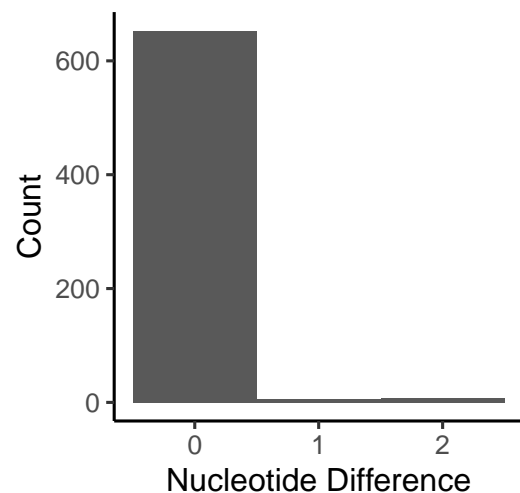
### TRBV10–2\*ap01

491 sequences assigned  
488 (99.4%) exact matches, in which:  
485 unique CDR3  
13 unique J



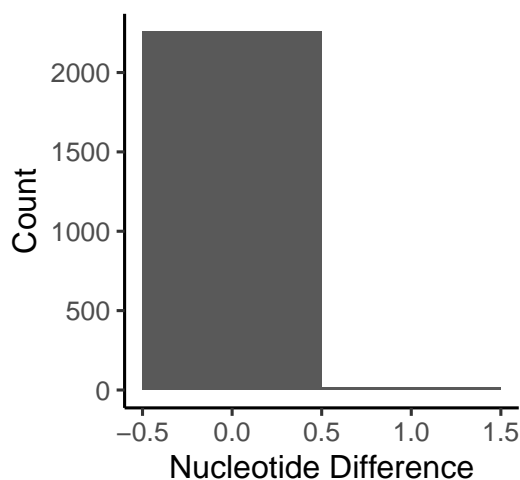
### TRBV13\*ap01

667 sequences assigned  
653 (97.9%) exact matches, in which:  
647 unique CDR3  
13 unique J



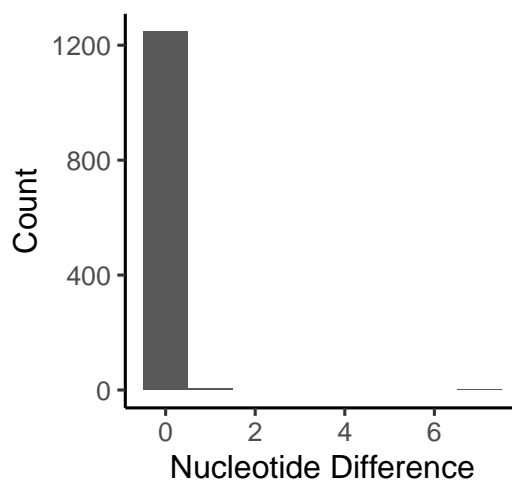
### TRBV20–1\*ap01

2270 sequences assigned  
2257 (99.4%) exact matches, in which:  
2253 unique CDR3  
13 unique J



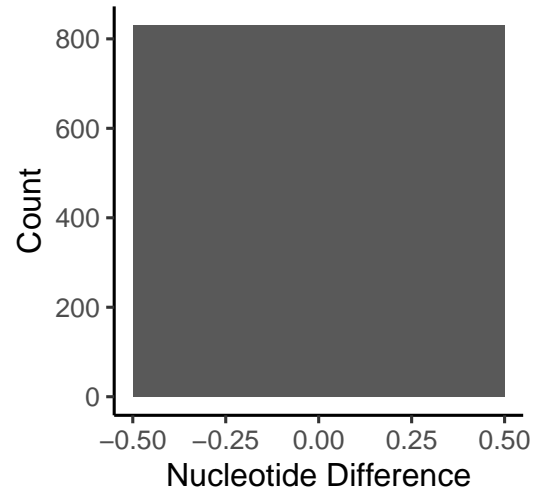
### TRBV10–3\*ap01

1254 sequences assigned  
1247 (99.4%) exact matches, in which:  
1242 unique CDR3  
13 unique J



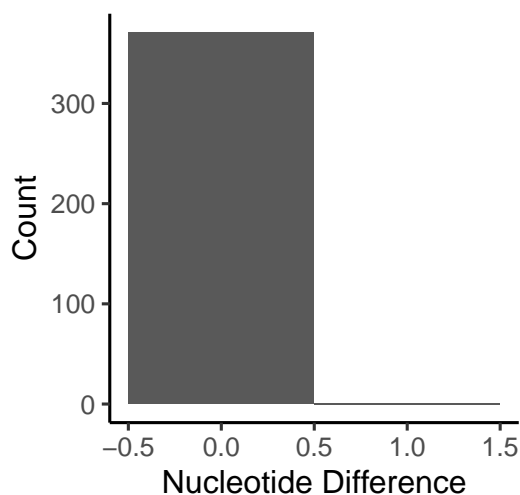
### TRBV14\*ap01

831 sequences assigned  
831 (100%) exact matches, in which:  
827 unique CDR3  
13 unique J



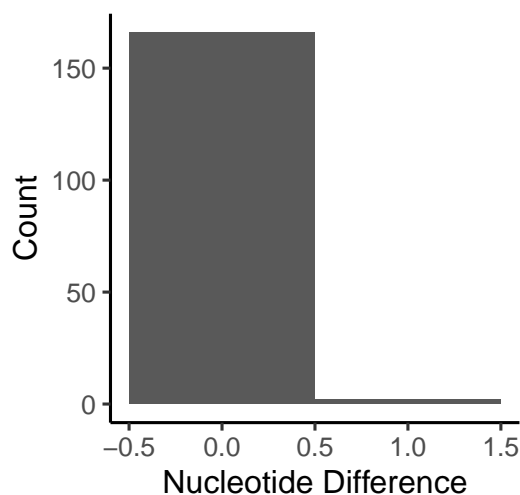
### TRBV20–1\*ap02

372 sequences assigned  
371 (99.7%) exact matches, in which:  
371 unique CDR3  
13 unique J



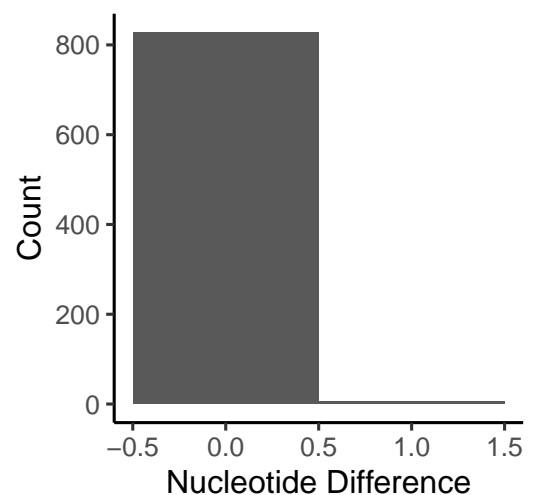
### TRBV1\*ap01

168 sequences assigned  
166 (98.8%) exact matches, in which:  
165 unique CDR3  
13 unique J



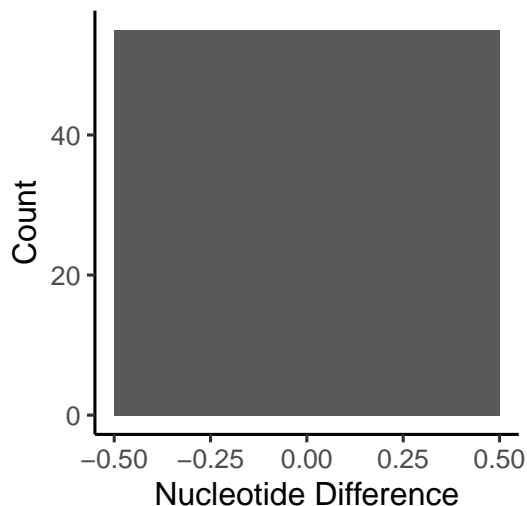
### TRBV15\*ap02

834 sequences assigned  
828 (99.3%) exact matches, in which:  
826 unique CDR3  
13 unique J



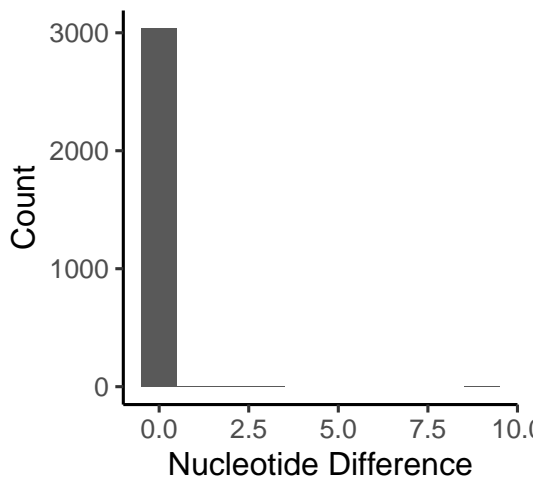
### TRBV16\*ap01

55 sequences assigned  
55 (100%) exact matches, in which:  
55 unique CDR3  
13 unique J



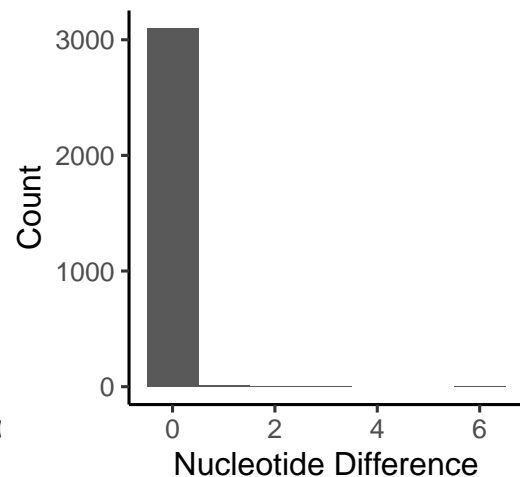
### TRBV2\*ap01

3049 sequences assigned  
3037 (99.6%) exact matches, in which:  
3033 unique CDR3  
13 unique J



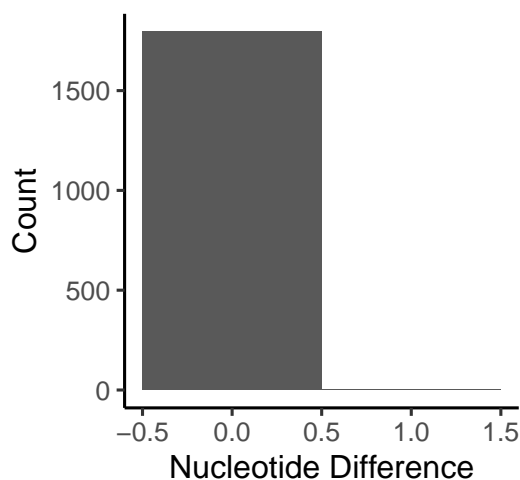
### TRBV28\*ap01

3111 sequences assigned  
3098 (99.6%) exact matches, in which:  
3088 unique CDR3  
13 unique J



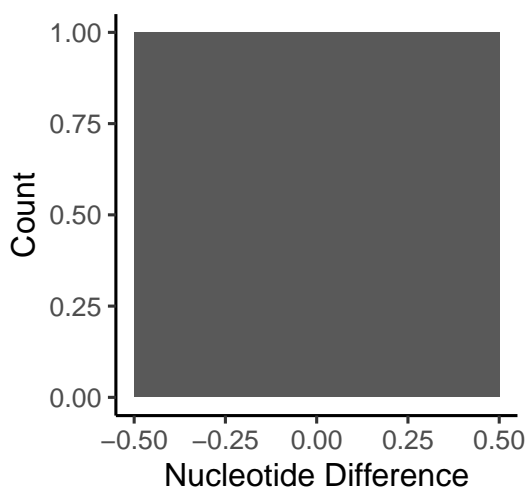
### TRBV18\*ap01

1796 sequences assigned  
1795 (99.9%) exact matches, in which:  
1794 unique CDR3  
13 unique J



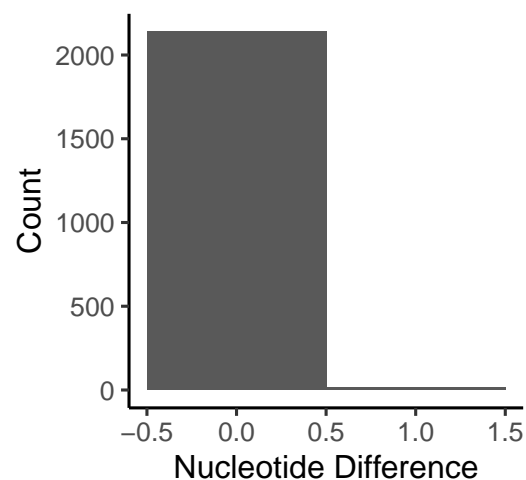
### TRBV26\*ap01

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



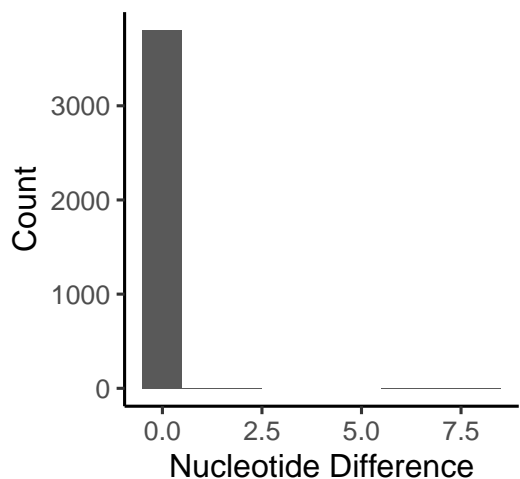
### TRBV30\*ap01

2152 sequences assigned  
2139 (99.4%) exact matches, in which:  
2136 unique CDR3  
13 unique J



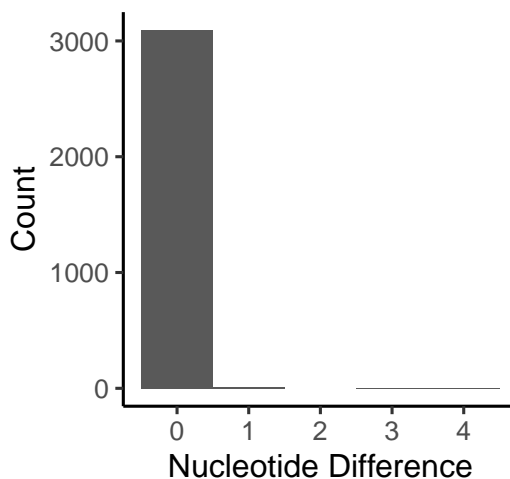
### TRBV19\*ap01

3816 sequences assigned  
3804 (99.7%) exact matches, in which:  
3799 unique CDR3  
13 unique J



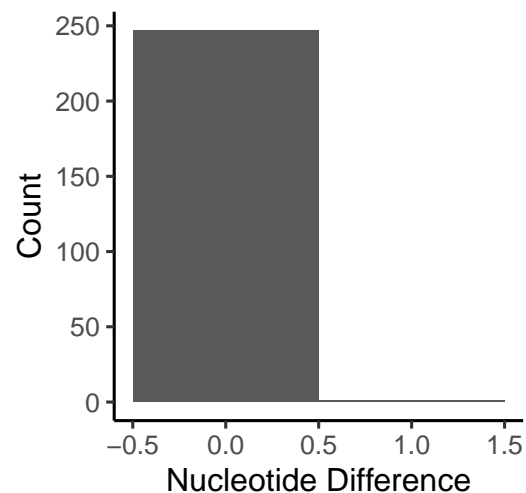
### TRBV27\*ap01

3109 sequences assigned  
3094 (99.5%) exact matches, in which:  
3089 unique CDR3  
13 unique J



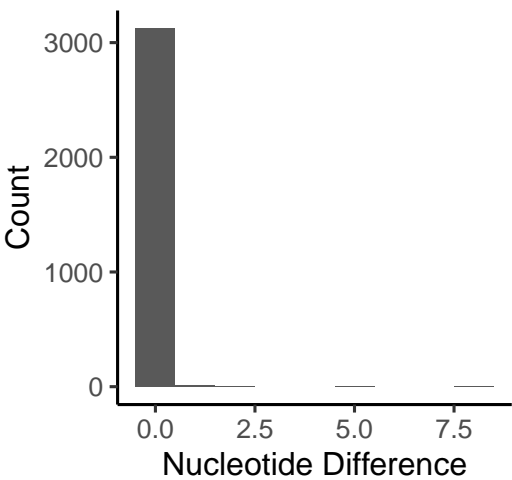
### TRBV30\*ap03

248 sequences assigned  
247 (99.6%) exact matches, in which:  
247 unique CDR3  
13 unique J



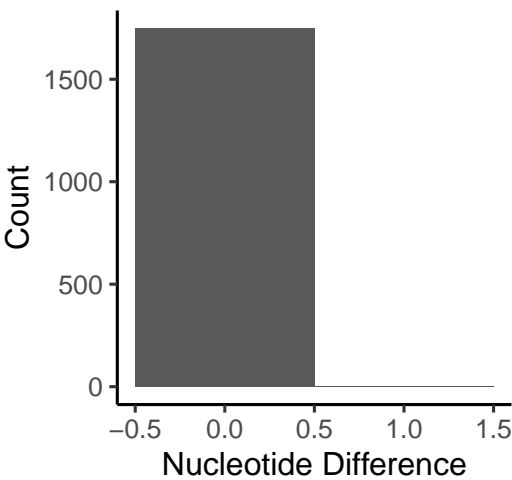
TRBV9\*ap01

3139 sequences assigned  
3124 (99.5%) exact matches, in which:  
3113 unique CDR3  
13 unique J



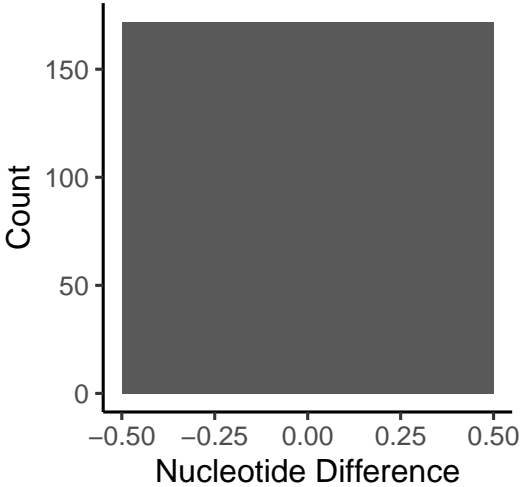
TRBV11-2\*ap01

1751 sequences assigned  
1748 (99.8%) exact matches, in which:  
1739 unique CDR3  
13 unique J



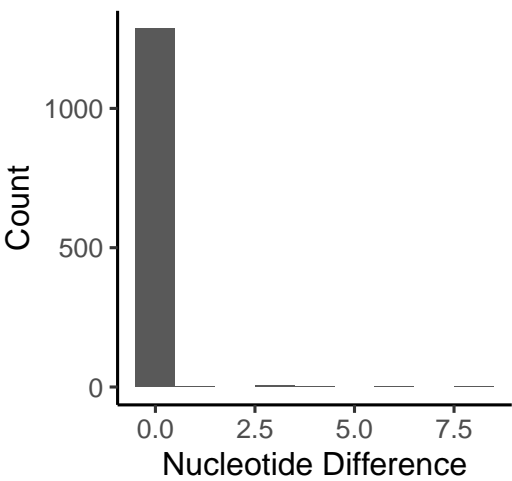
TRBV12-2\*ap01

172 sequences assigned  
172 (100%) exact matches, in which:  
172 unique CDR3  
13 unique J



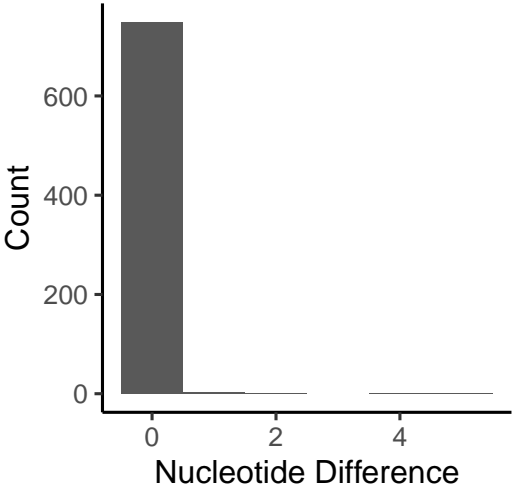
TRBV21-1\*ap01

1297 sequences assigned  
1286 (99.2%) exact matches, in which:  
1284 unique CDR3  
13 unique J



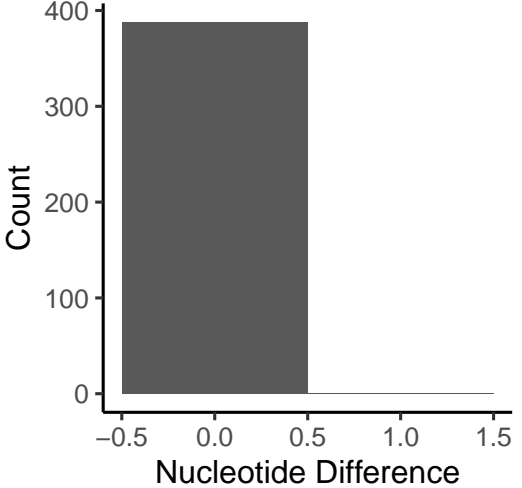
TRBV11-3\*ap01

755 sequences assigned  
749 (99.2%) exact matches, in which:  
749 unique CDR3  
13 unique J



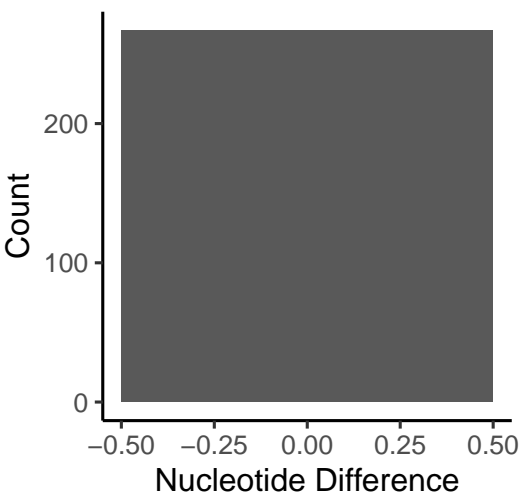
TRBV12-5\*ap01

389 sequences assigned  
388 (99.7%) exact matches, in which:  
388 unique CDR3  
13 unique J



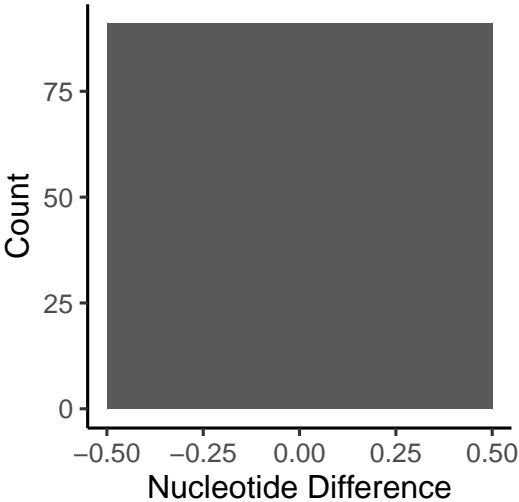
TRBV11-1\*ap01

267 sequences assigned  
267 (100%) exact matches, in which:  
267 unique CDR3  
13 unique J



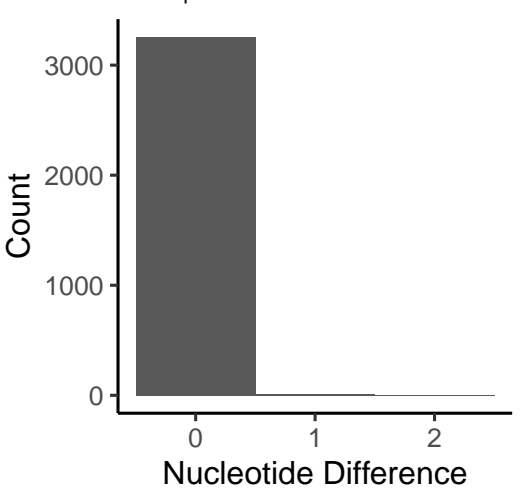
TRBV12-1\*ap01

91 sequences assigned  
91 (100%) exact matches, in which:  
91 unique CDR3  
12 unique J



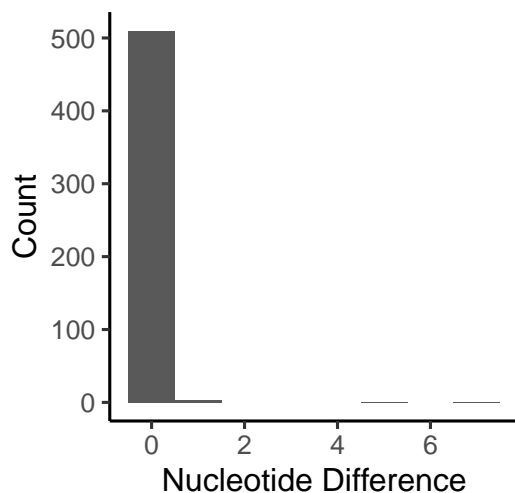
TRBV12-34\*ap01

3267 sequences assigned  
3255 (99.6%) exact matches, in which:  
3243 unique CDR3  
13 unique J



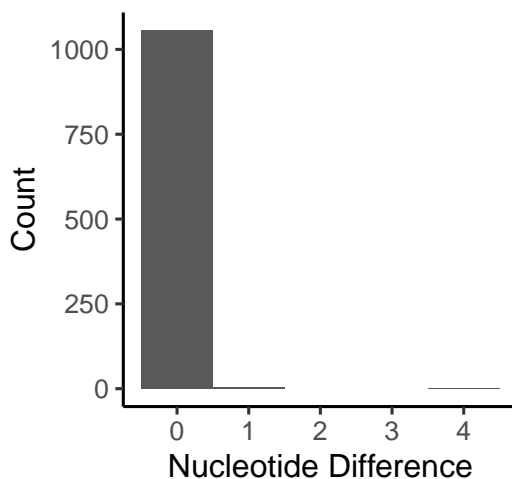
### TRBV23–1\*ap01

515 sequences assigned  
510 (99%) exact matches, in which:  
509 unique CDR3  
13 unique J



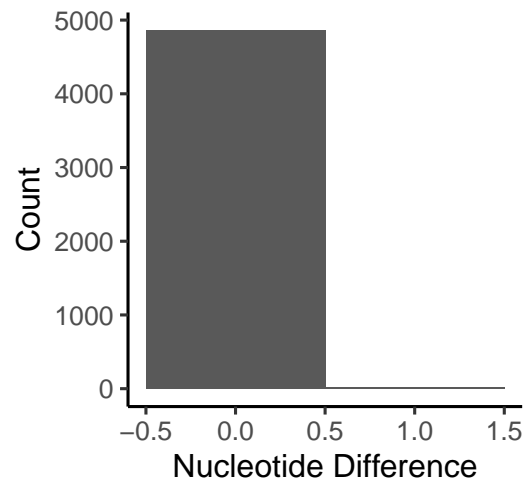
### TRBV24–1\*ap01

1062 sequences assigned  
1056 (99.4%) exact matches, in which:  
1054 unique CDR3  
13 unique J



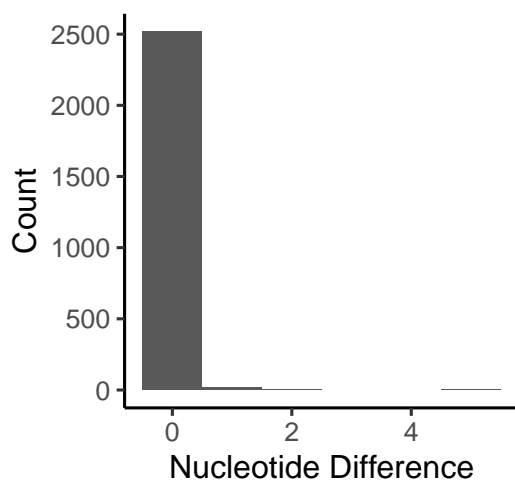
### TRBV5–1\*ap01

4883 sequences assigned  
4860 (99.5%) exact matches, in which:  
4817 unique CDR3  
13 unique J



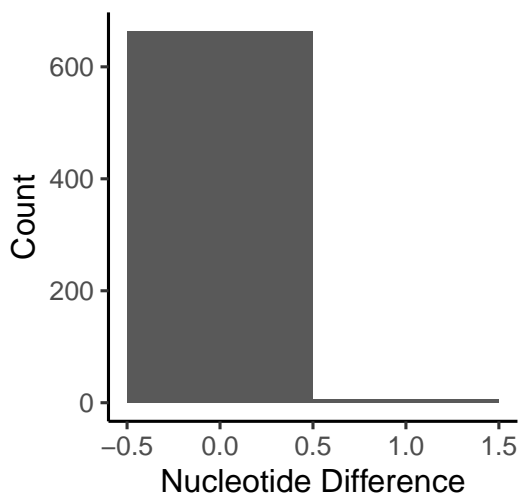
### TRBV3–12\*ap01

2537 sequences assigned  
2517 (99.2%) exact matches, in which:  
2514 unique CDR3  
13 unique J



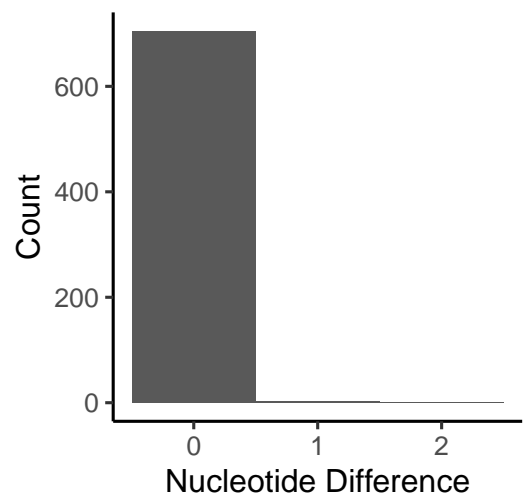
### TRBV4–2\*ap01

670 sequences assigned  
664 (99.1%) exact matches, in which:  
662 unique CDR3  
13 unique J



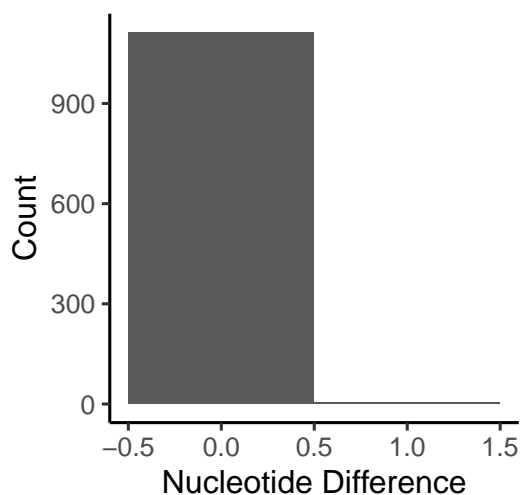
### TRBV25–1\*ap01

708 sequences assigned  
705 (99.6%) exact matches, in which:  
704 unique CDR3  
13 unique J



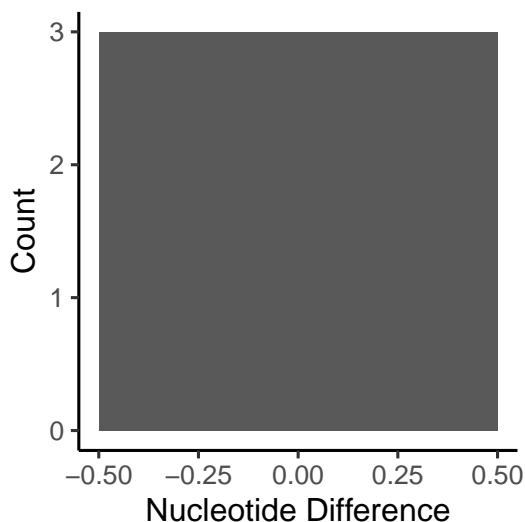
### TRBV4–1\*ap01

1117 sequences assigned  
1113 (99.6%) exact matches, in which:  
1105 unique CDR3  
13 unique J



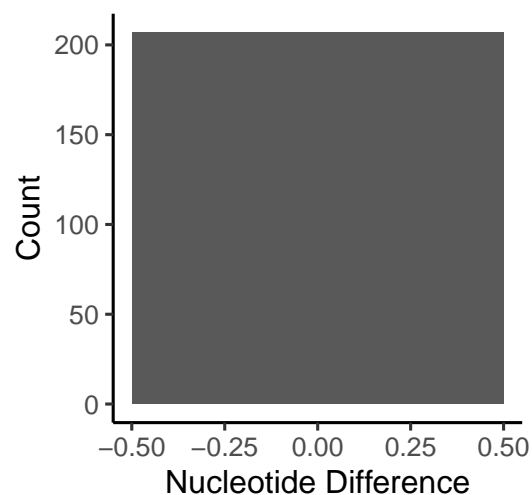
### TRBV4–3\*ap01

3 sequences assigned  
3 (100%) exact matches, in which:  
3 unique CDR3  
2 unique J



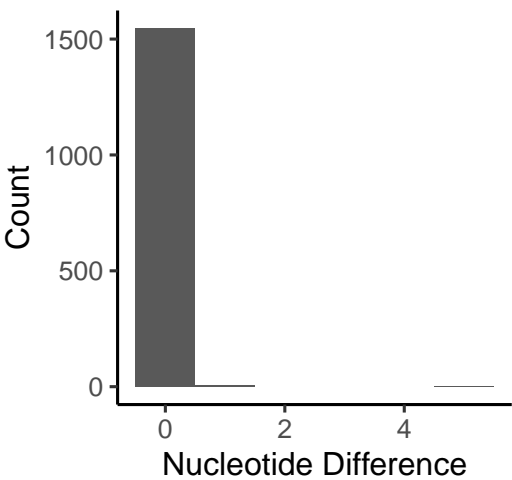
### TRBV5–3\*ap01

207 sequences assigned  
207 (100%) exact matches, in which:  
206 unique CDR3  
13 unique J



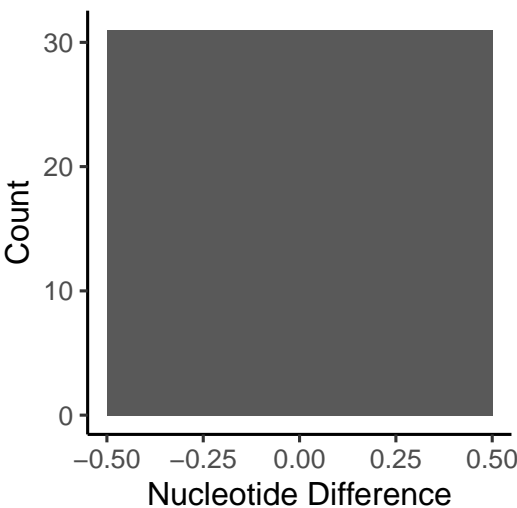
TRBV5-4\*ap01

1554 sequences assigned  
1546 (99.5%) exact matches, in which:  
1542 unique CDR3  
13 unique J



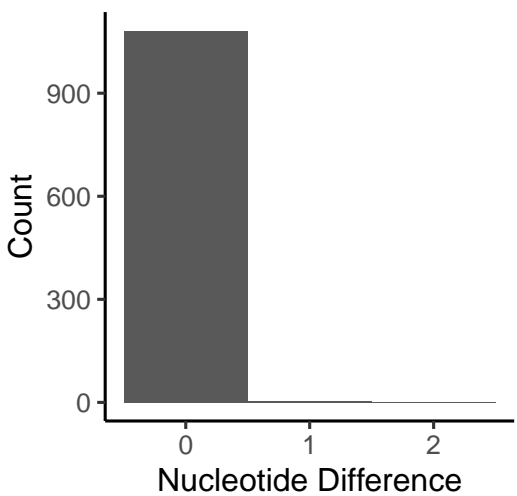
TRBV5-7\*ap01

31 sequences assigned  
31 (100%) exact matches, in which:  
31 unique CDR3  
11 unique J



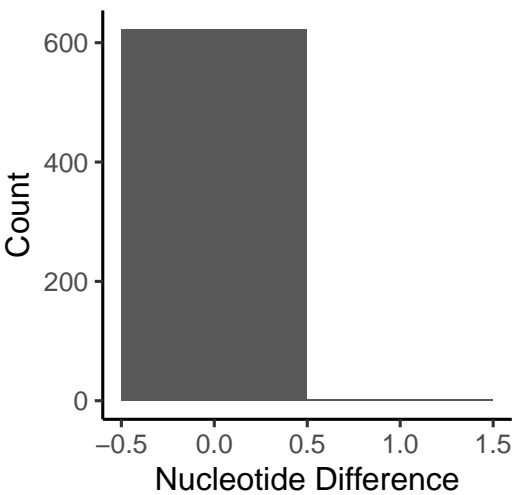
TRBV6-4\*ap01

1089 sequences assigned  
1082 (99.4%) exact matches, in which:  
1080 unique CDR3  
13 unique J



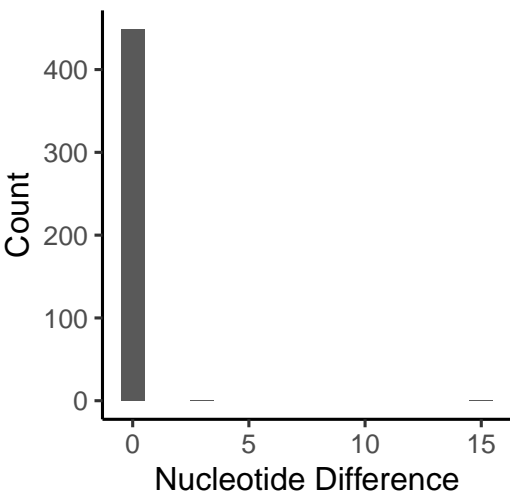
TRBV5-5\*ap01

626 sequences assigned  
623 (99.5%) exact matches, in which:  
623 unique CDR3  
13 unique J



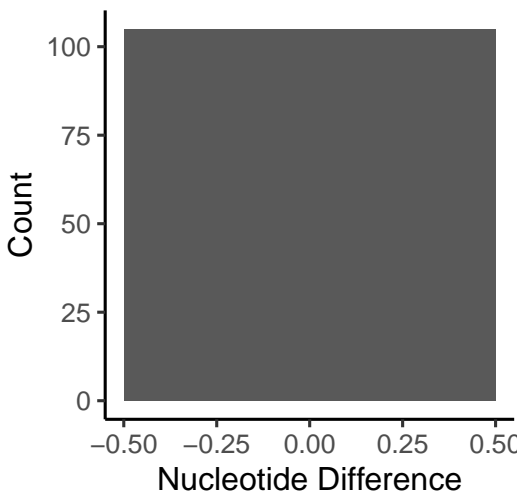
TRBV5-8\*ap01

451 sequences assigned  
449 (99.6%) exact matches, in which:  
446 unique CDR3  
13 unique J



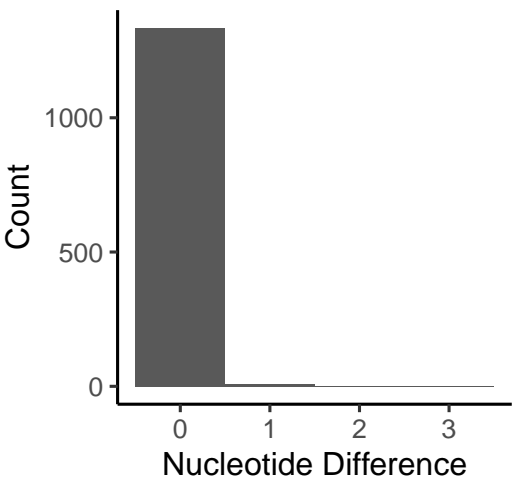
TRBV6-7\*ap01

105 sequences assigned  
105 (100%) exact matches, in which:  
105 unique CDR3  
13 unique J



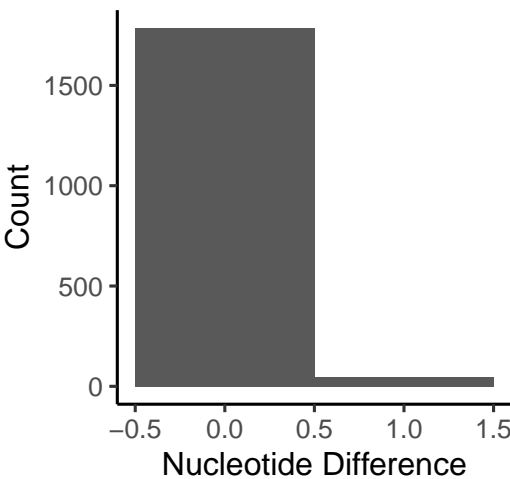
TRBV5-6\*ap01

1345 sequences assigned  
1334 (99.2%) exact matches, in which:  
1325 unique CDR3  
13 unique J



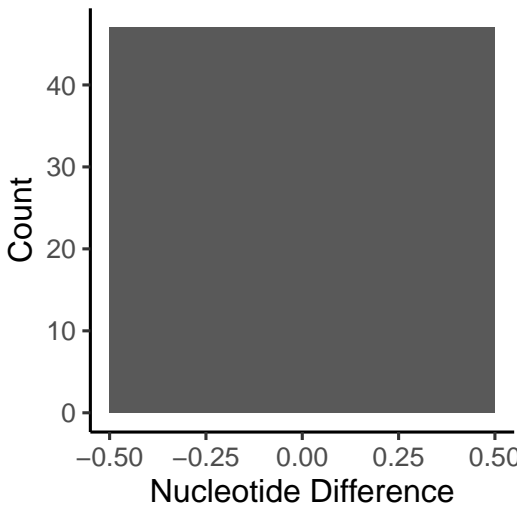
TRBV6-1\*ap01

1832 sequences assigned  
1786 (97.5%) exact matches, in which:  
1780 unique CDR3  
13 unique J



TRBV6-8\*ap01

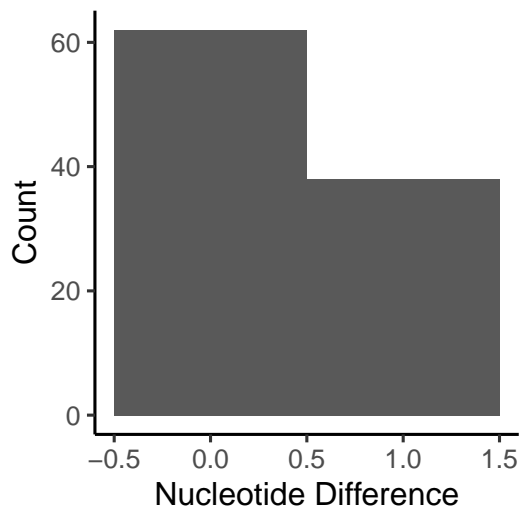
47 sequences assigned  
47 (100%) exact matches, in which:  
47 unique CDR3  
11 unique J





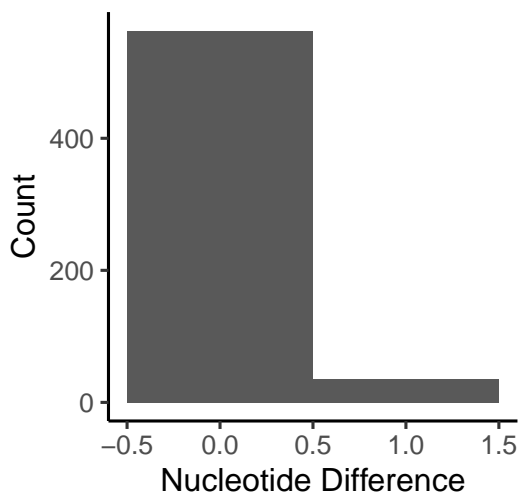
### TRBV6–9\*ap01

100 sequences assigned  
62 (62%) exact matches, in which:  
62 unique CDR3  
13 unique J



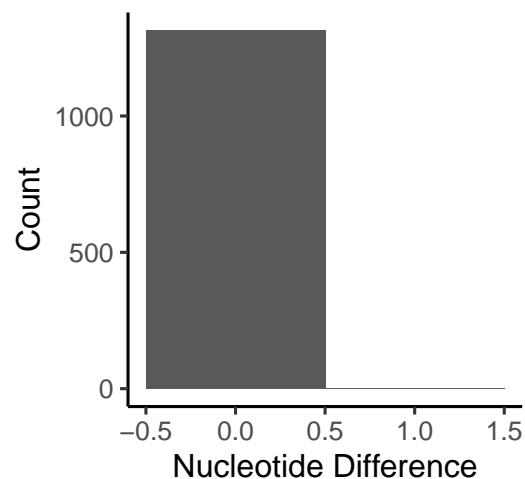
### TRBV6–56\*ap02

598 sequences assigned  
563 (94.1%) exact matches, in which:  
563 unique CDR3  
13 unique J



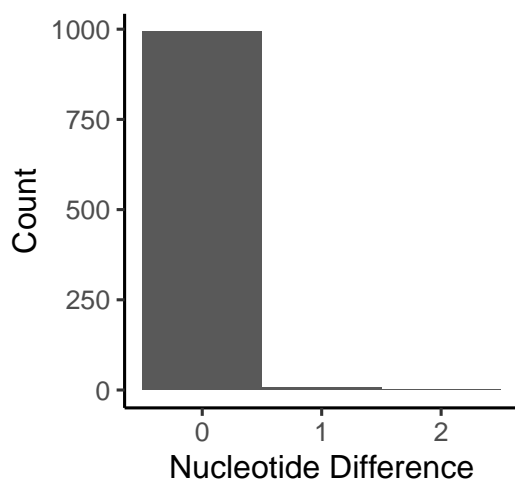
### TRBV7–2\*ap01

1316 sequences assigned  
1314 (99.8%) exact matches, in which:  
1312 unique CDR3  
13 unique J



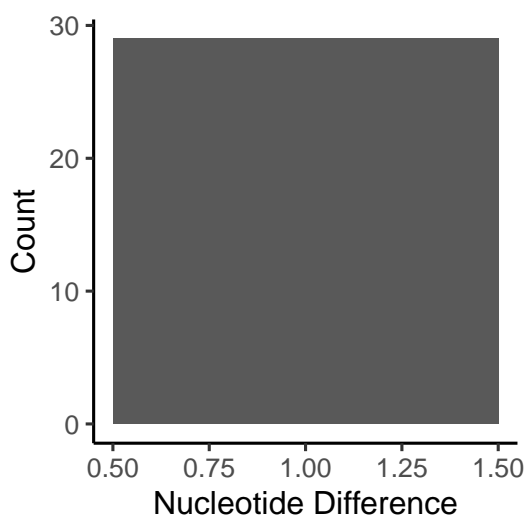
### TRBV6–23\*ap01

1001 sequences assigned  
993 (99.2%) exact matches, in which:  
990 unique CDR3  
13 unique J



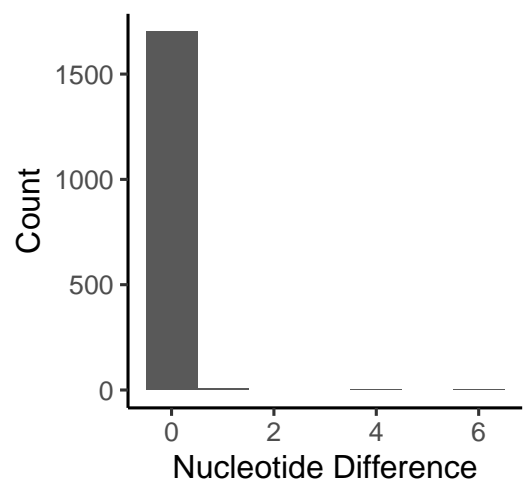
### TRBV7–1\*ap01\_T296C

29 sequences assigned  
No exact matches.



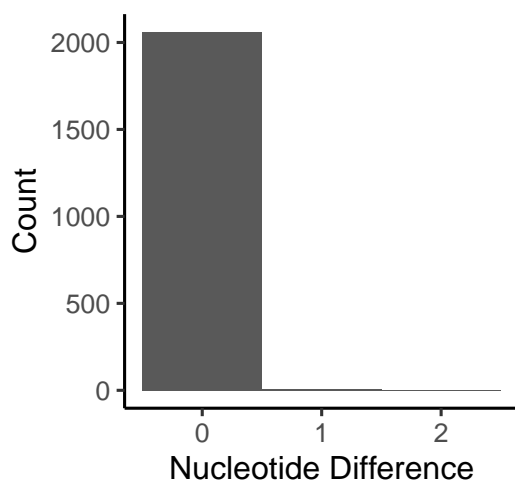
### TRBV7–3\*ap01

1710 sequences assigned  
1701 (99.5%) exact matches, in which:  
1695 unique CDR3  
13 unique J



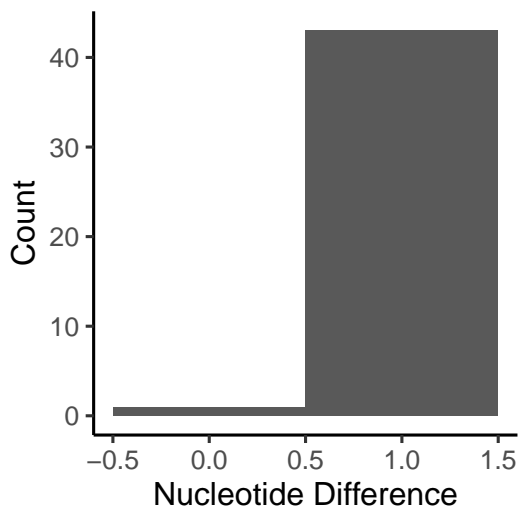
### TRBV6–56\*ap01

2069 sequences assigned  
2060 (99.6%) exact matches, in which:  
2055 unique CDR3  
13 unique J



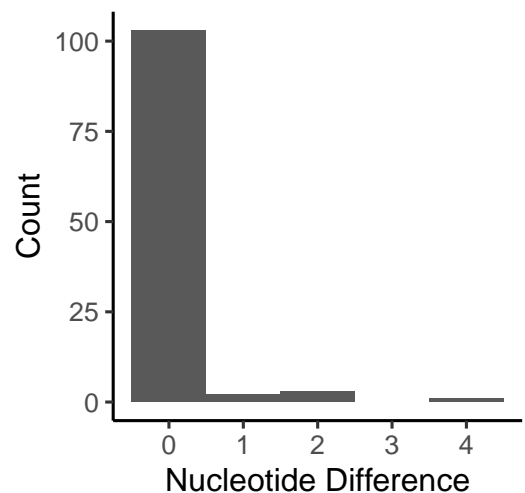
### TRBV7–1\*ap01\_T296C\_C

44 sequences assigned  
1 (2.3%) exact matches, in which:  
1 unique CDR3  
1 unique J



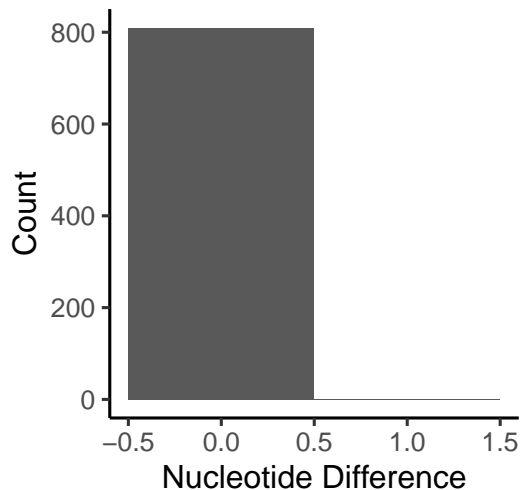
### TRBV7–4\*ap01

109 sequences assigned  
103 (94.5%) exact matches, in which:  
102 unique CDR3  
13 unique J



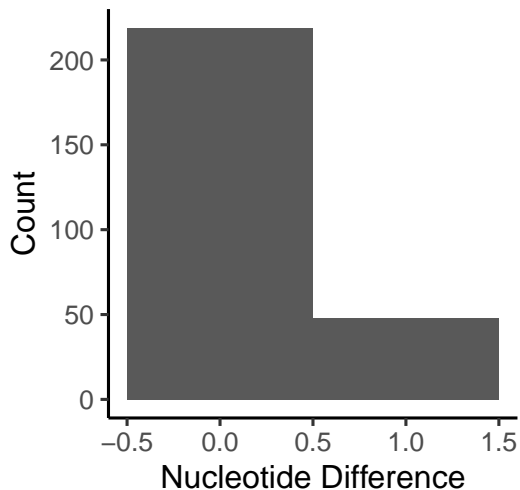
### TRBV7-6\*ap01

811 sequences assigned  
810 (99.9%) exact matches, in which:  
807 unique CDR3  
13 unique J



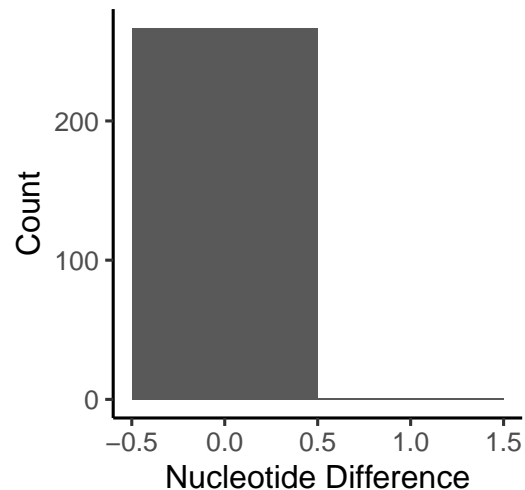
### TRBV7-8\*ap03

267 sequences assigned  
219 (82%) exact matches, in which:  
219 unique CDR3  
13 unique J



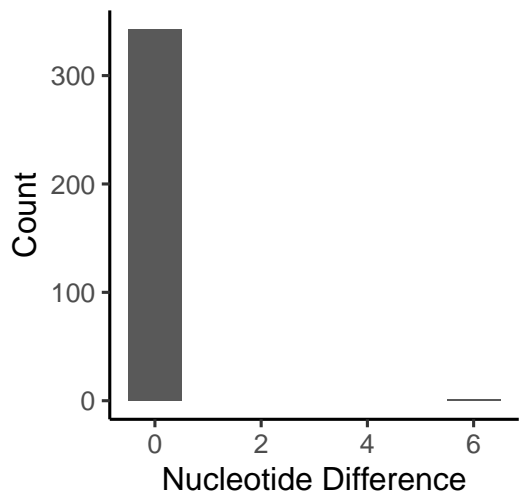
### TRBV29-1\*ap02

268 sequences assigned  
267 (99.6%) exact matches, in which:  
266 unique CDR3  
13 unique J



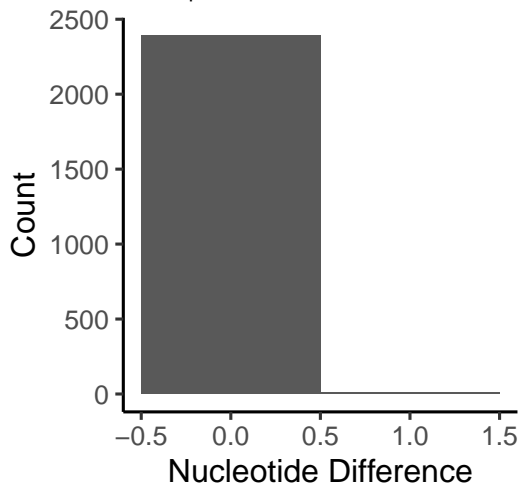
### TRBV7-7\*ap01\_C315T

344 sequences assigned  
343 (99.7%) exact matches, in which:  
343 unique CDR3  
13 unique J



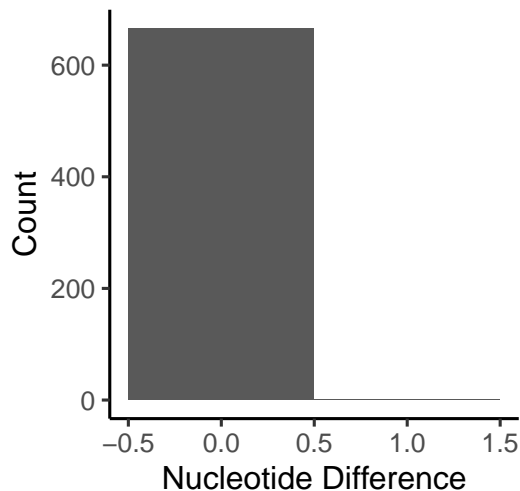
### TRBV7-9\*ap01

2399 sequences assigned  
2390 (99.6%) exact matches, in which:  
2386 unique CDR3  
13 unique J



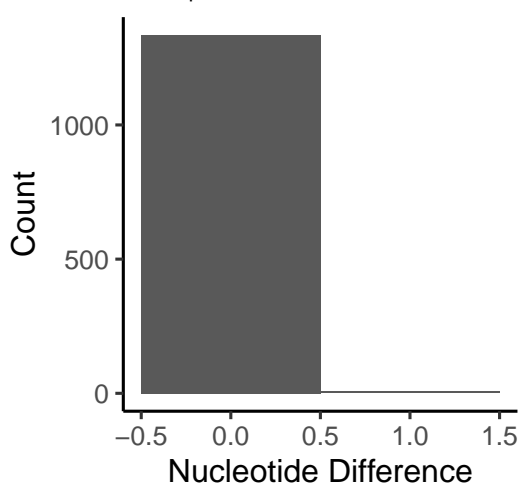
### TRBV7-8\*ap01

667 sequences assigned  
666 (99.9%) exact matches, in which:  
664 unique CDR3  
13 unique J

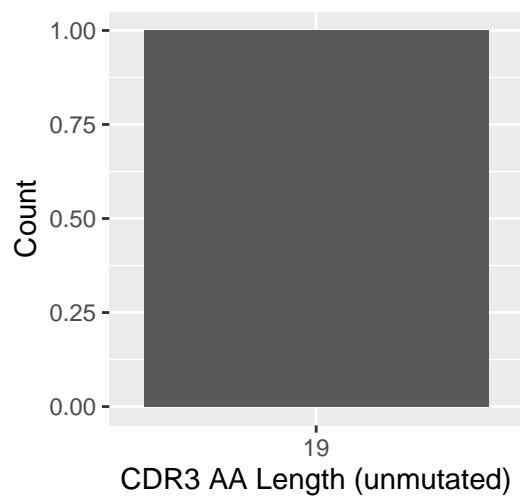


### TRBV29-1\*ap01

1342 sequences assigned  
1335 (99.5%) exact matches, in which:  
1334 unique CDR3  
13 unique J



TRBV7-1\*ap01\_T296C\_C314T



TRBV7-7\*ap01\_C315T

