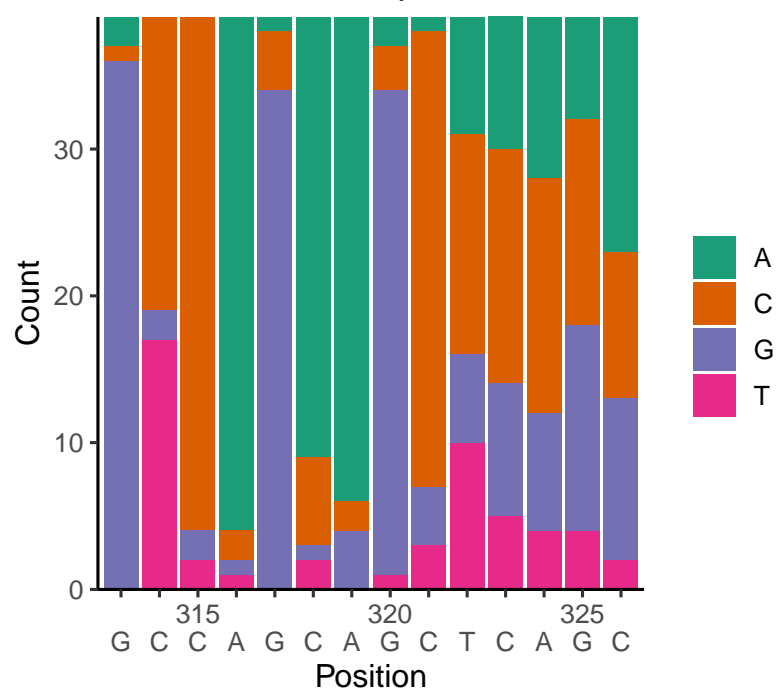
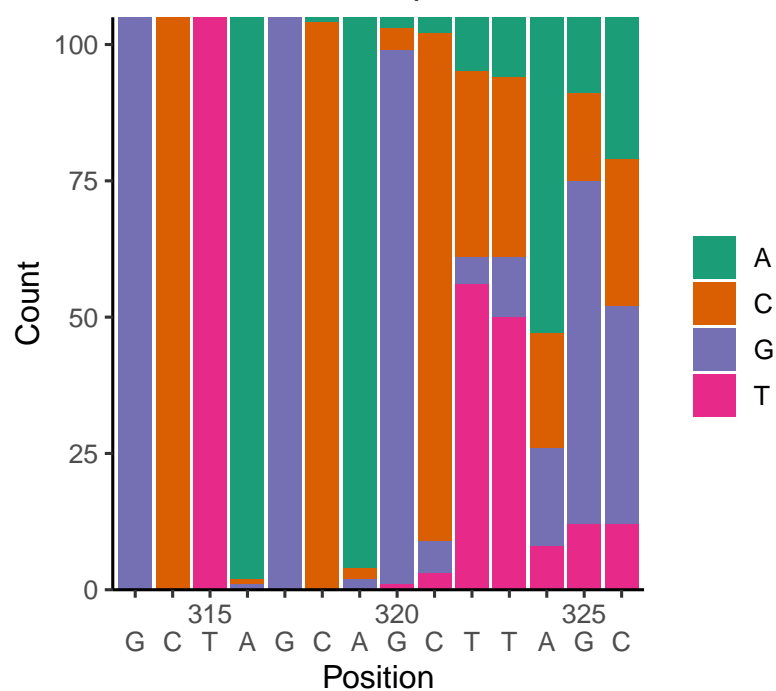


Gene TRBV7-1\*ap01\_T296C



Gene TRBV7-7\*ap01\_C315T



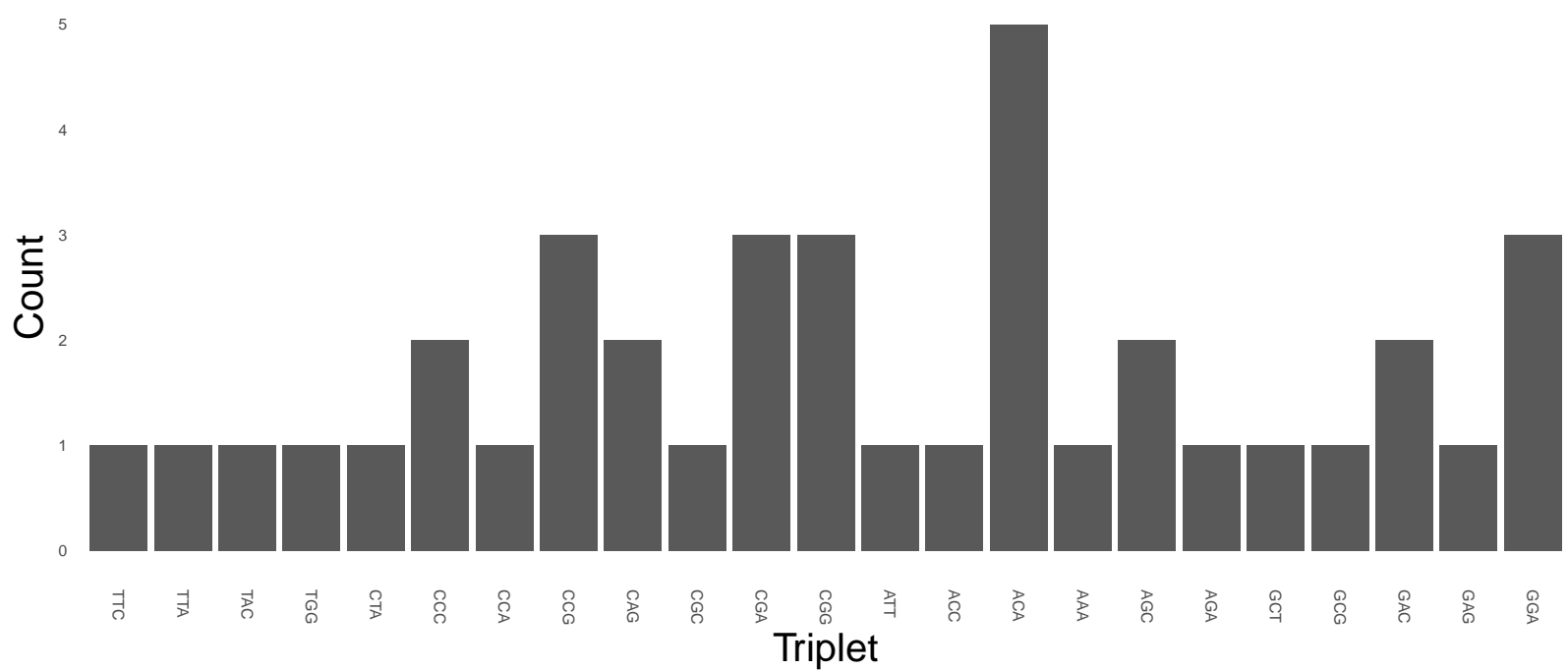
Gene TRBV7-1\*ap01\_T296C



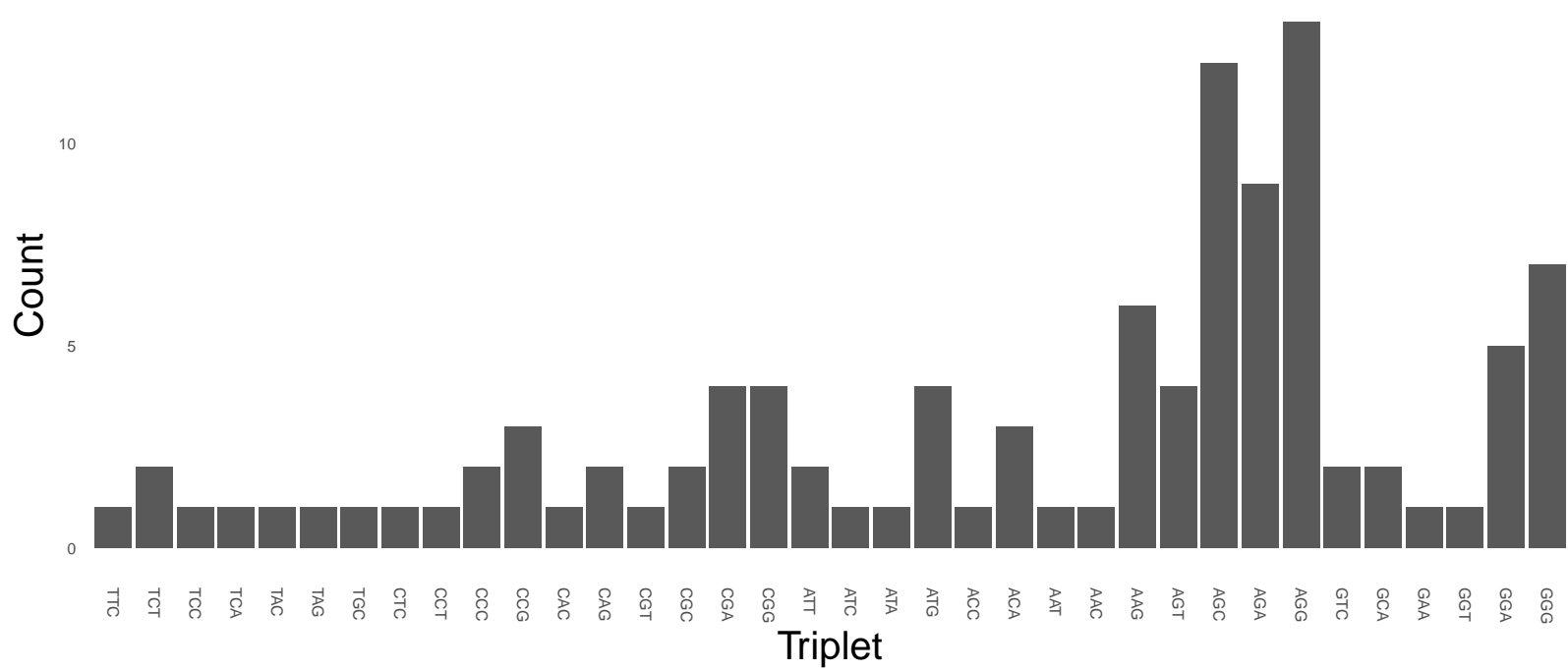
Gene TRBV7-7\*ap01\_C315T



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

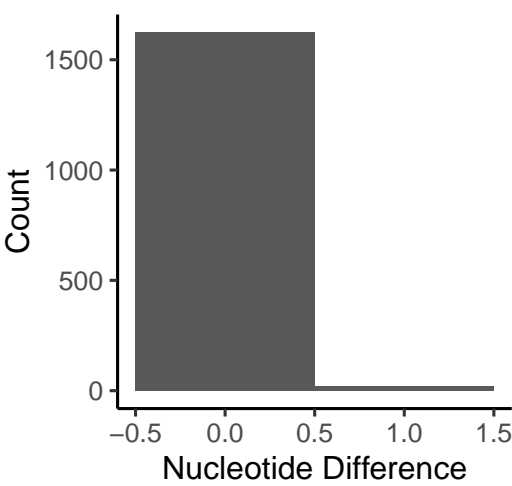


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



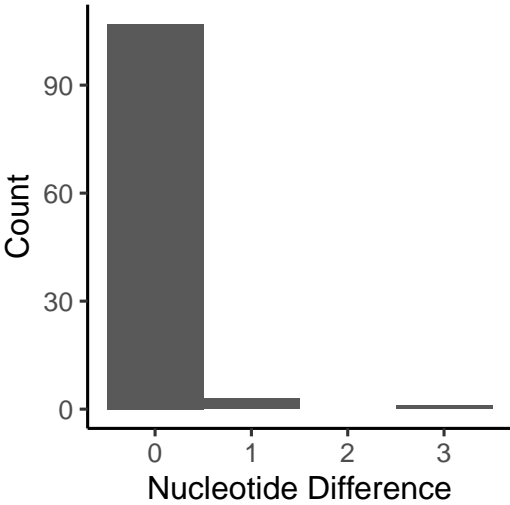
TRBV20-1\*ap01

1645 sequences assigned  
1624 (98.7%) exact matches, in which:  
1570 unique CDR3  
13 unique J



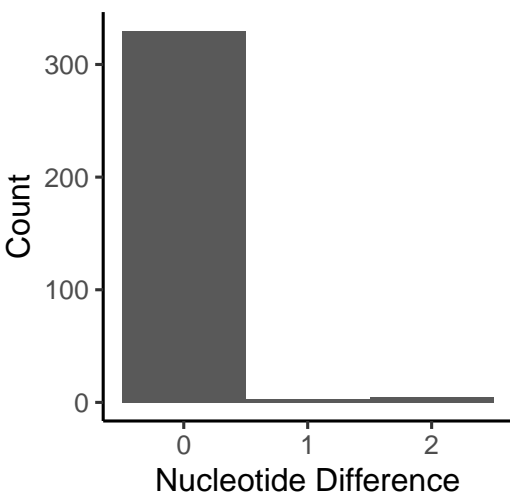
TRBV10-2\*ap01

111 sequences assigned  
107 (96.4%) exact matches, in which:  
105 unique CDR3  
13 unique J



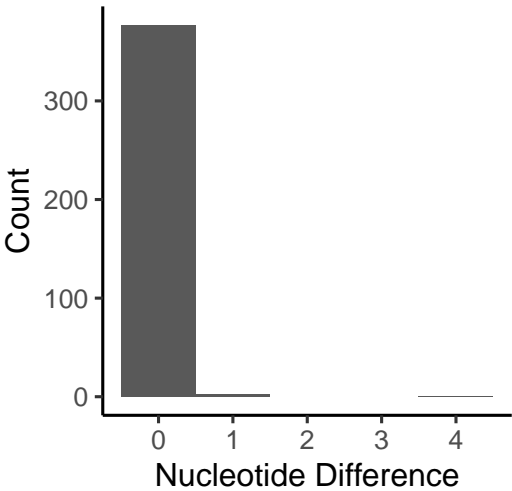
TRBV13\*ap01

338 sequences assigned  
330 (97.6%) exact matches, in which:  
314 unique CDR3  
13 unique J



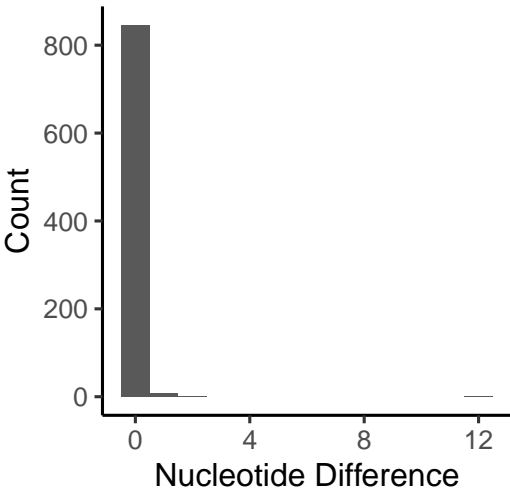
TRBV10-1\*ap01

381 sequences assigned  
377 (99%) exact matches, in which:  
360 unique CDR3  
13 unique J



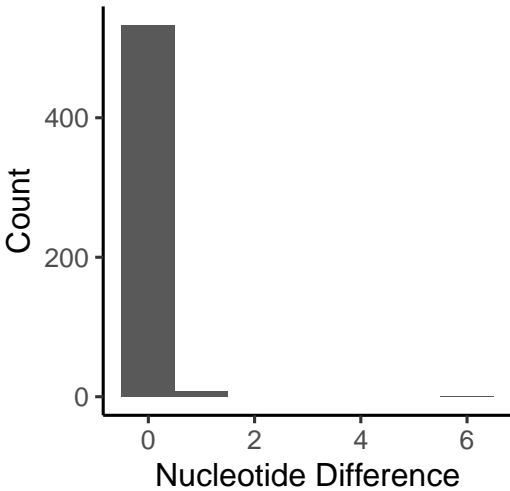
TRBV10-3\*ap01

856 sequences assigned  
846 (98.8%) exact matches, in which:  
808 unique CDR3  
13 unique J



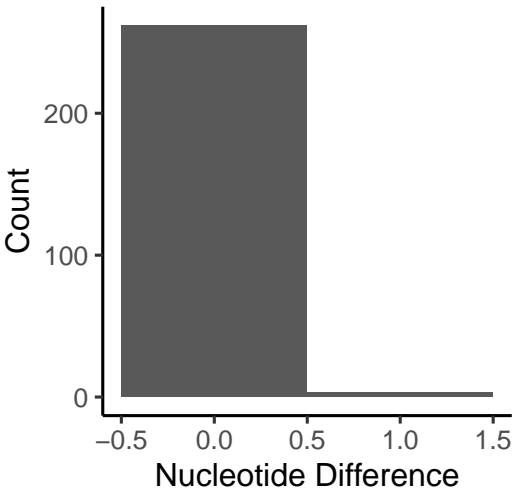
TRBV14\*ap01

542 sequences assigned  
533 (98.3%) exact matches, in which:  
513 unique CDR3  
13 unique J



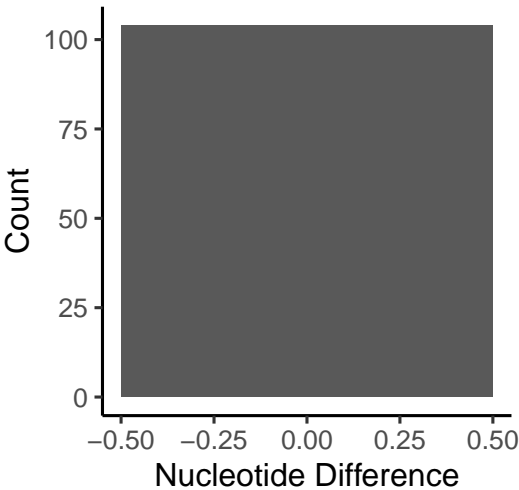
TRBV20-1\*ap02

265 sequences assigned  
262 (98.9%) exact matches, in which:  
259 unique CDR3  
13 unique J



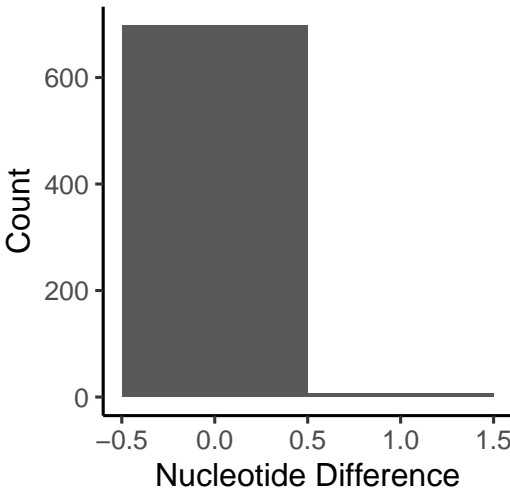
TRBV1\*ap01

104 sequences assigned  
104 (100%) exact matches, in which:  
101 unique CDR3  
12 unique J



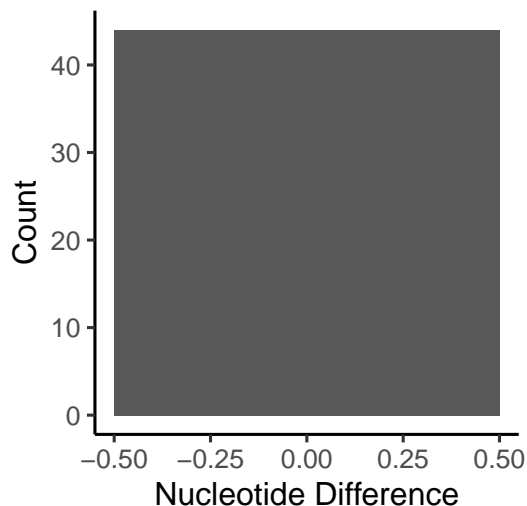
TRBV15\*ap02

704 sequences assigned  
698 (99.1%) exact matches, in which:  
667 unique CDR3  
13 unique J



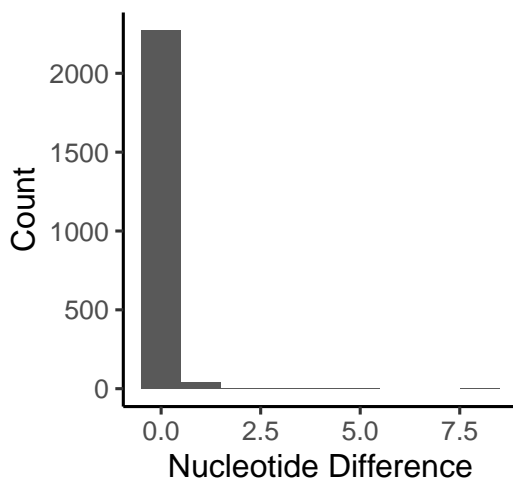
### TRBV16\*ap01

44 sequences assigned  
44 (100%) exact matches, in which:  
42 unique CDR3  
11 unique J



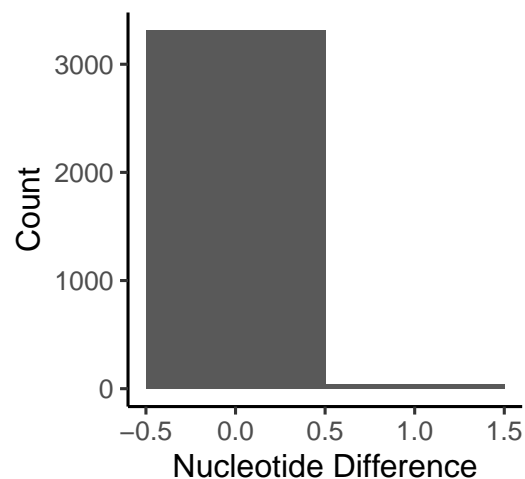
### TRBV19\*ap01

2322 sequences assigned  
2272 (97.8%) exact matches, in which:  
2202 unique CDR3  
13 unique J



### TRBV28\*ap01

3354 sequences assigned  
3313 (98.8%) exact matches, in which:  
3190 unique CDR3  
13 unique J



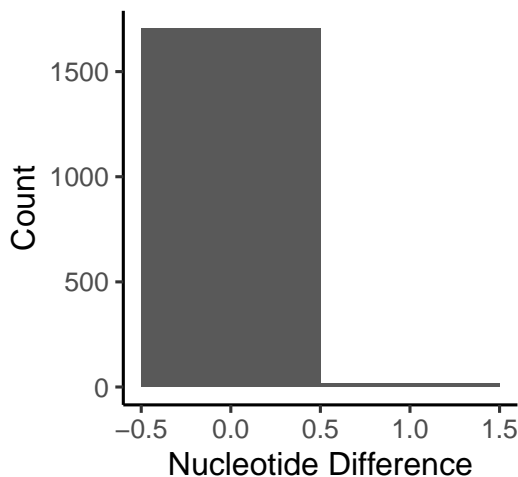
### TRBV17\*ap01

1 sequences assigned  
No exact matches.



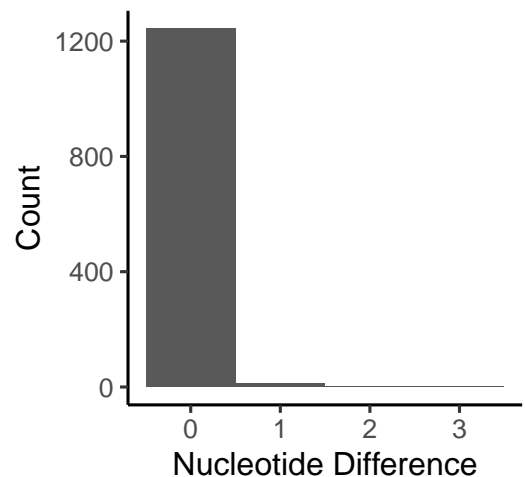
### TRBV2\*ap01

1720 sequences assigned  
1704 (99.1%) exact matches, in which:  
1641 unique CDR3  
13 unique J



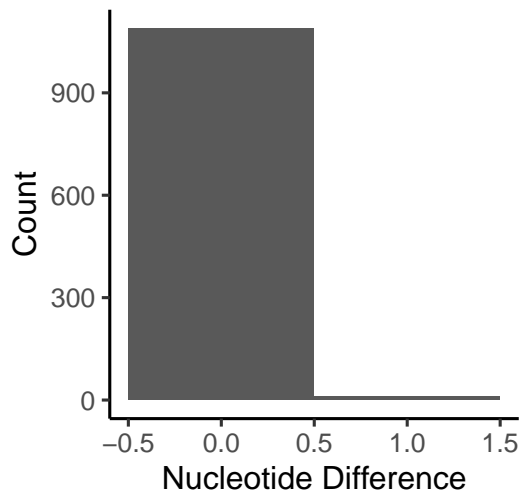
### TRBV30\*ap01

1261 sequences assigned  
1243 (98.6%) exact matches, in which:  
1219 unique CDR3  
13 unique J



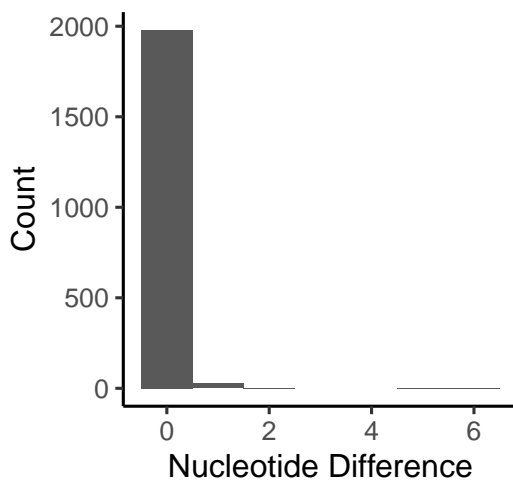
### TRBV18\*ap01

1100 sequences assigned  
1089 (99%) exact matches, in which:  
1061 unique CDR3  
13 unique J



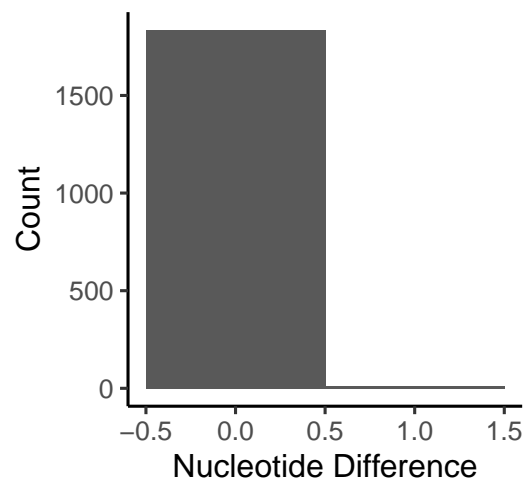
### TRBV27\*ap01

2009 sequences assigned  
1979 (98.5%) exact matches, in which:  
1882 unique CDR3  
13 unique J



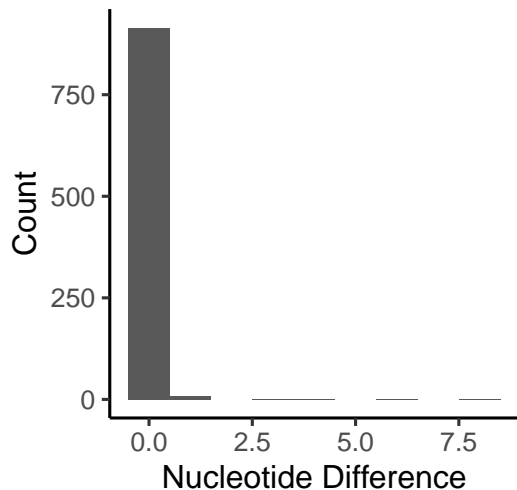
### TRBV9\*ap01

1848 sequences assigned  
1835 (99.3%) exact matches, in which:  
1775 unique CDR3  
13 unique J



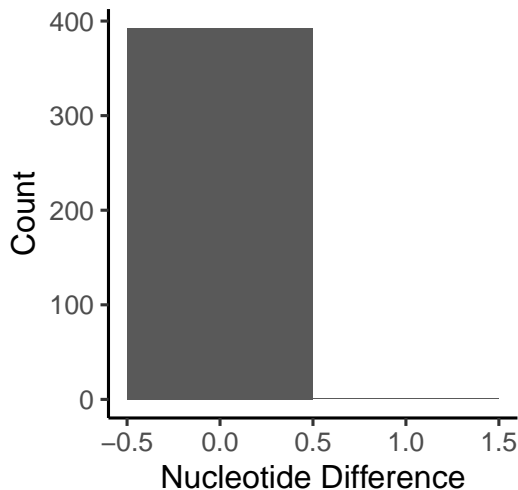
### TRBV21–1\*ap01

928 sequences assigned  
915 (98.6%) exact matches, in which:  
885 unique CDR3  
13 unique J



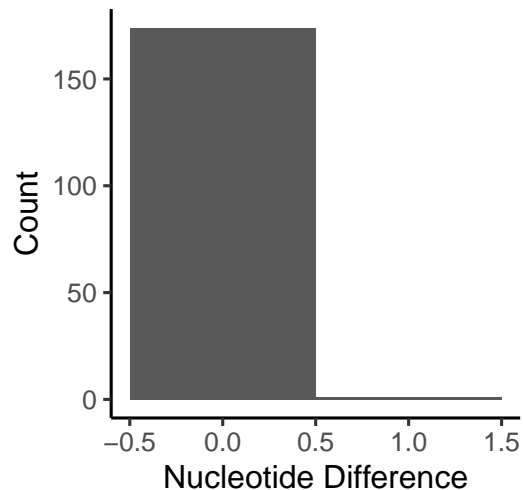
### TRBV11–3\*ap01

394 sequences assigned  
393 (99.7%) exact matches, in which:  
387 unique CDR3  
13 unique J



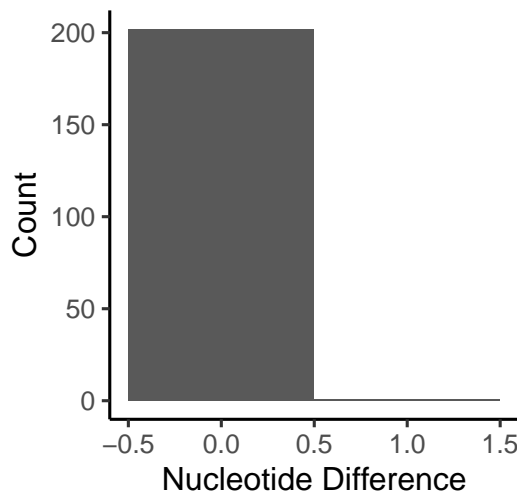
### TRBV12–5\*ap01

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



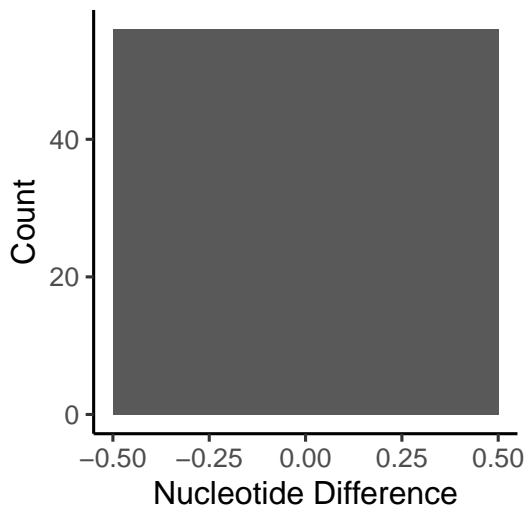
### TRBV11–1\*ap01

203 sequences assigned  
202 (99.5%) exact matches, in which:  
197 unique CDR3  
13 unique J



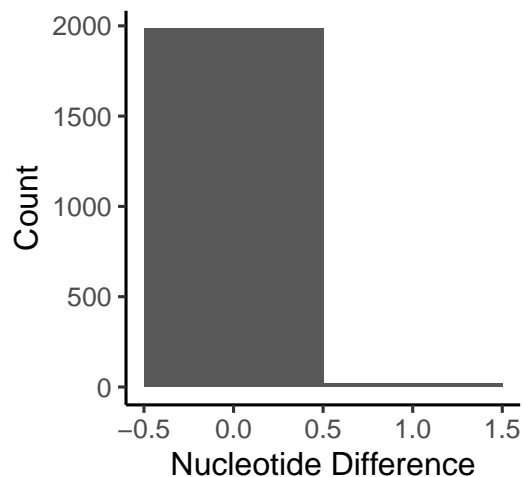
### TRBV12–1\*ap01

56 sequences assigned  
56 (100%) exact matches, in which:  
53 unique CDR3  
12 unique J



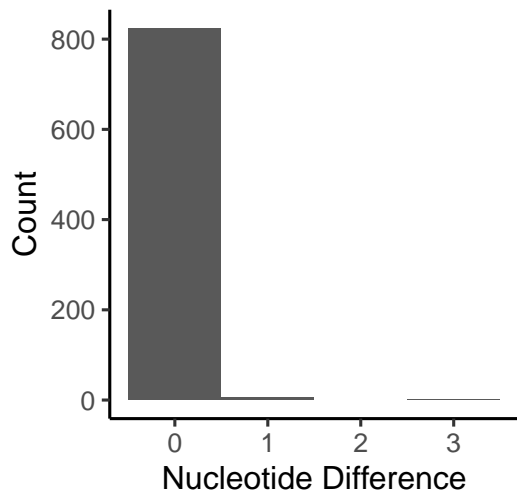
### TRBV12–34\*ap01

2002 sequences assigned  
1984 (99.1%) exact matches, in which:  
1923 unique CDR3  
13 unique J



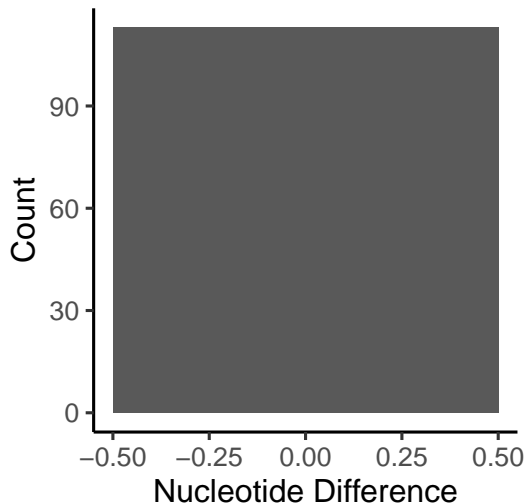
### TRBV11–2\*ap01

831 sequences assigned  
824 (99.2%) exact matches, in which:  
811 unique CDR3  
13 unique J



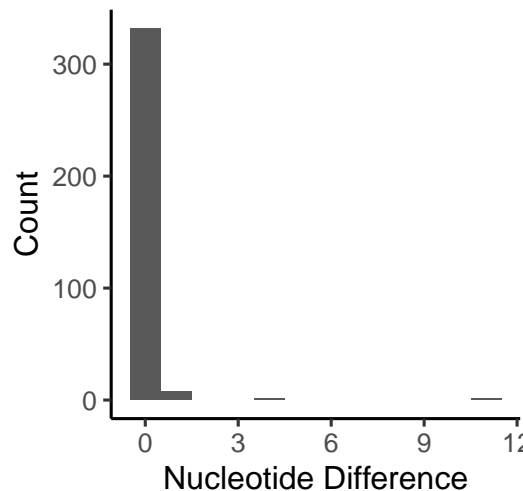
### TRBV12–2\*ap01

113 sequences assigned  
113 (100%) exact matches, in which:  
108 unique CDR3  
13 unique J



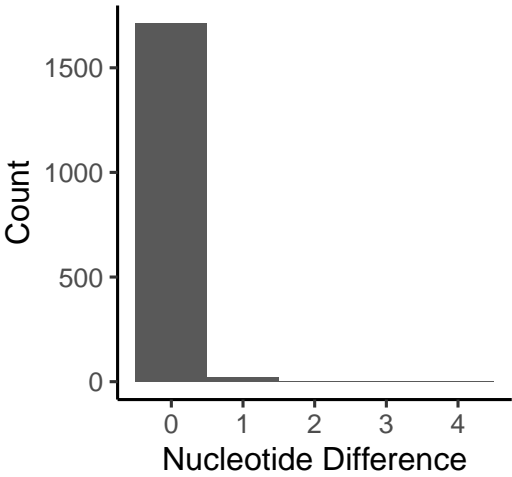
### TRBV23–1\*ap01

342 sequences assigned  
332 (97.1%) exact matches, in which:  
316 unique CDR3  
13 unique J



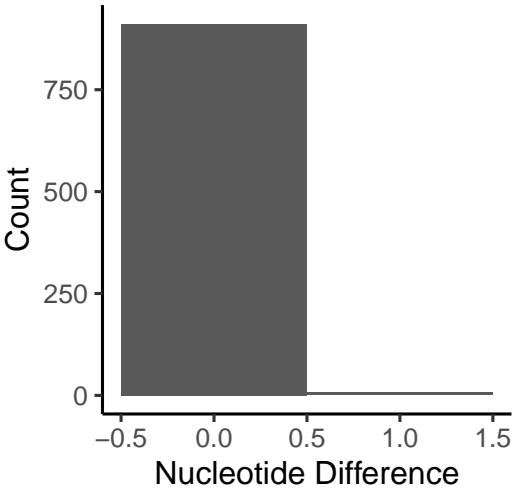
TRBV3-12\*ap01

1738 sequences assigned  
1712 (98.5%) exact matches, in which:  
1667 unique CDR3  
13 unique J



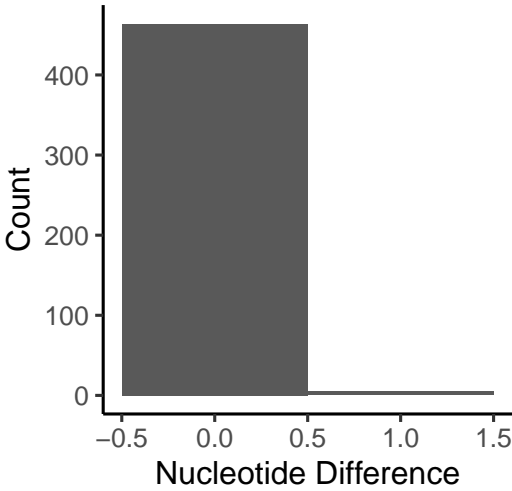
TRBV4-2\*ap01

919 sequences assigned  
912 (99.2%) exact matches, in which:  
880 unique CDR3  
13 unique J



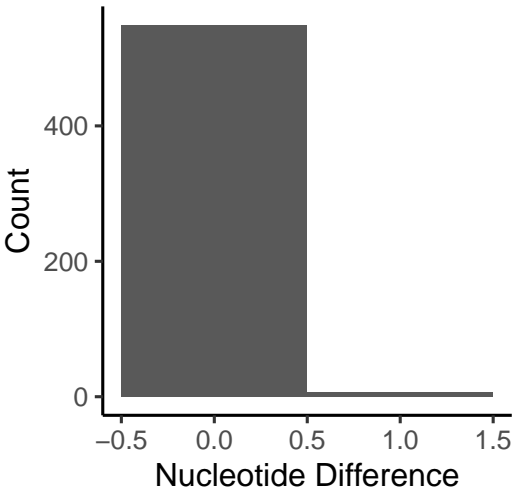
TRBV25-1\*ap01

469 sequences assigned  
464 (98.9%) exact matches, in which:  
444 unique CDR3  
13 unique J



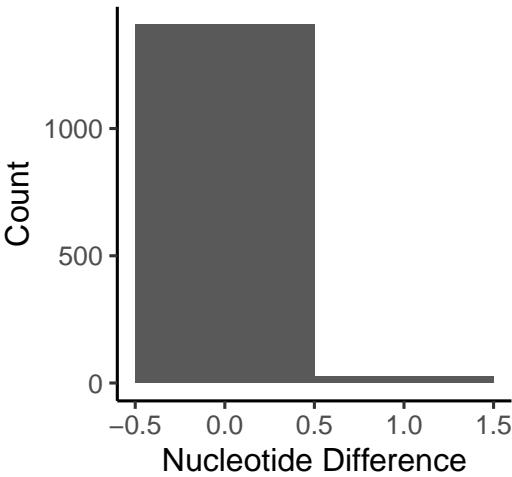
TRBV4-1\*ap01

556 sequences assigned  
549 (98.7%) exact matches, in which:  
526 unique CDR3  
13 unique J



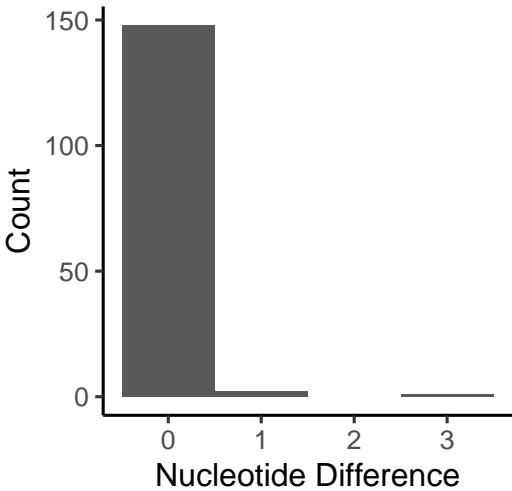
TRBV4-3\*ap01

1432 sequences assigned  
1408 (98.3%) exact matches, in which:  
1365 unique CDR3  
13 unique J



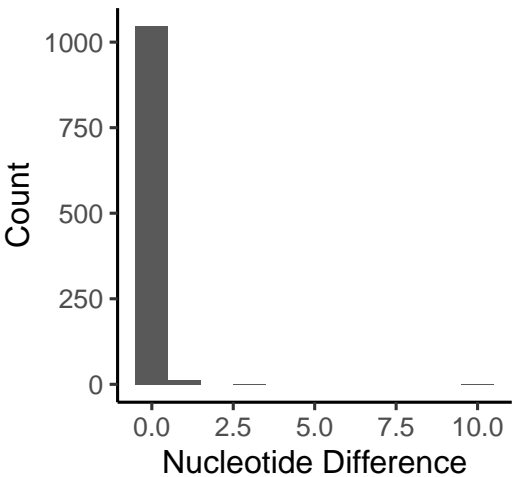
TRBV5-3\*ap01

151 sequences assigned  
148 (98%) exact matches, in which:  
143 unique CDR3  
13 unique J



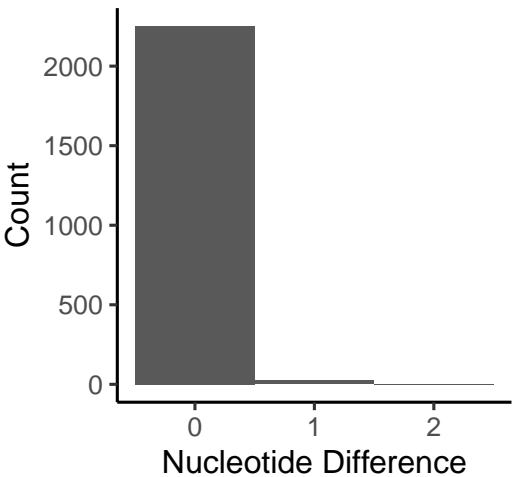
TRBV24-1\*ap01

1062 sequences assigned  
1047 (98.6%) exact matches, in which:  
1016 unique CDR3  
13 unique J



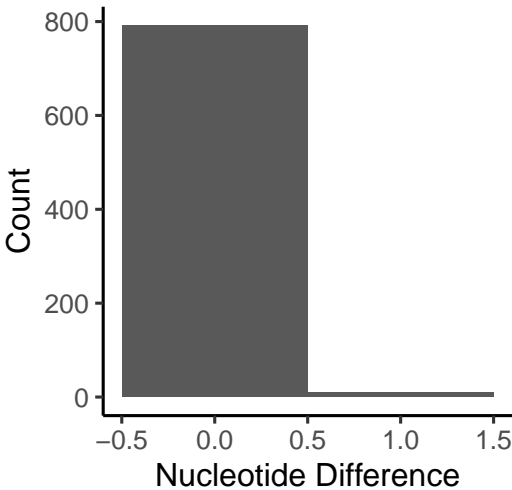
TRBV5-1\*ap01

2277 sequences assigned  
2252 (98.9%) exact matches, in which:  
2167 unique CDR3  
13 unique J



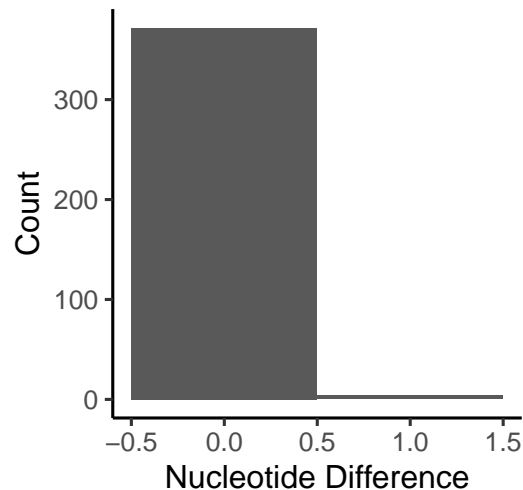
TRBV5-4\*ap01

802 sequences assigned  
792 (98.8%) exact matches, in which:  
758 unique CDR3  
13 unique J



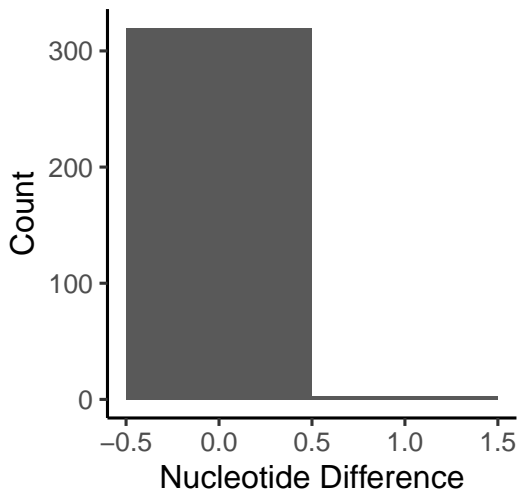
### TRBV5-5\*ap01

376 sequences assigned  
372 (98.9%) exact matches, in which:  
365 unique CDR3  
13 unique J



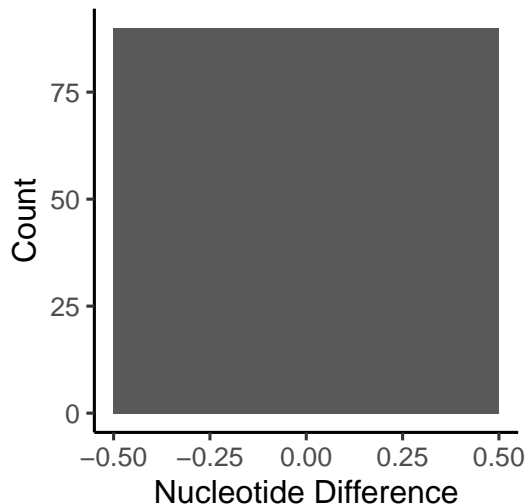
### TRBV5-8\*ap01

323 sequences assigned  
320 (99.1%) exact matches, in which:  
311 unique CDR3  
13 unique J



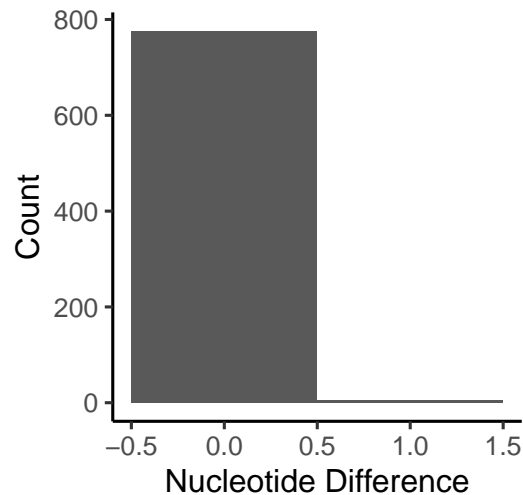
### TRBV6-7\*ap01

90 sequences assigned  
90 (100%) exact matches, in which:  
86 unique CDR3  
12 unique J



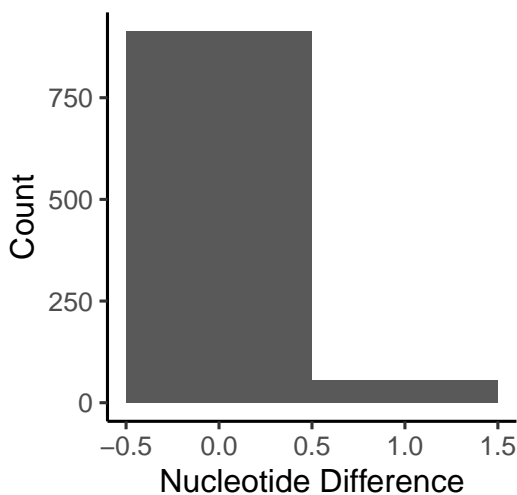
### TRBV5-6\*ap01

781 sequences assigned  
776 (99.4%) exact matches, in which:  
749 unique CDR3  
13 unique J



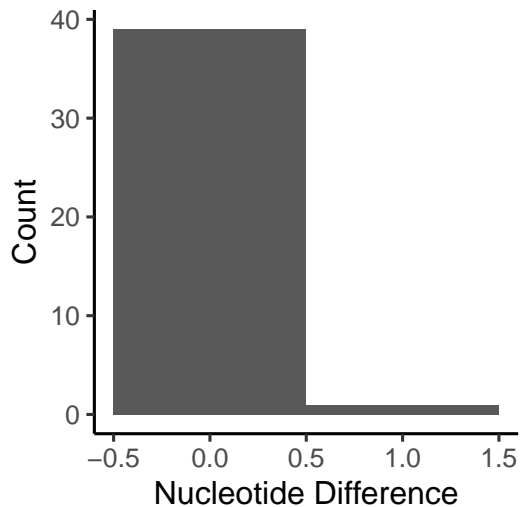
### TRBV6-1\*ap01

969 sequences assigned  
914 (94.3%) exact matches, in which:  
883 unique CDR3  
13 unique J



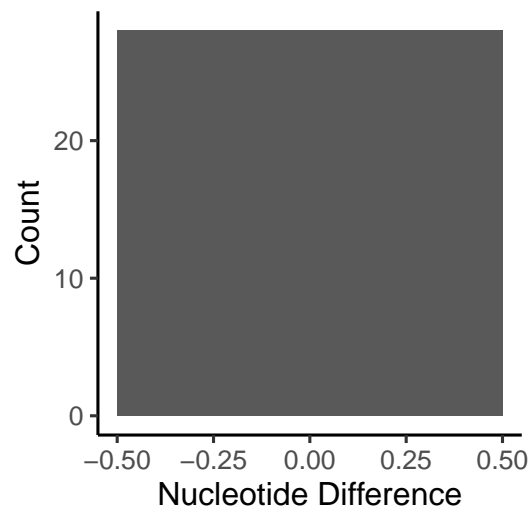
### TRBV6-8\*ap01

40 sequences assigned  
39 (97.5%) exact matches, in which:  
38 unique CDR3  
12 unique J



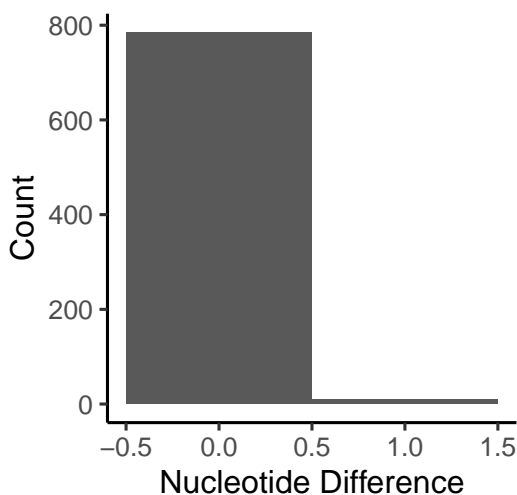
### TRBV5-7\*ap01

28 sequences assigned  
28 (100%) exact matches, in which:  
27 unique CDR3  
8 unique J



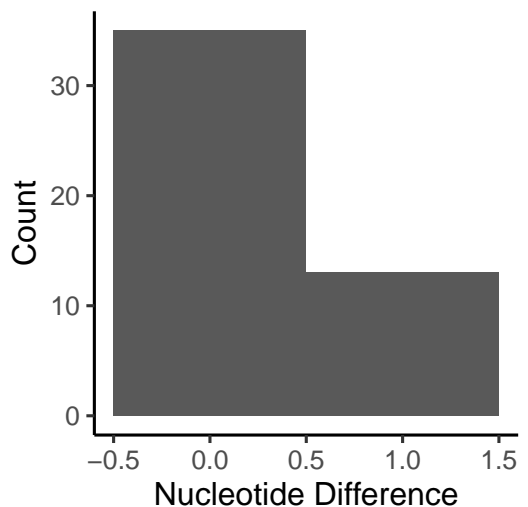
### TRBV6-4\*ap01

795 sequences assigned  
785 (98.7%) exact matches, in which:  
767 unique CDR3  
13 unique J



### TRBV6-9\*ap01

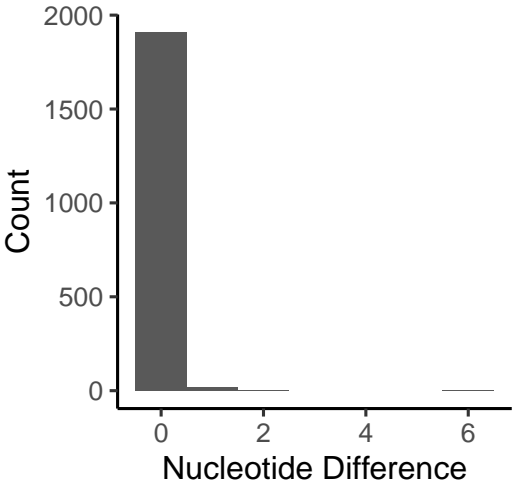
48 sequences assigned  
35 (72.9%) exact matches, in which:  
34 unique CDR3  
11 unique J





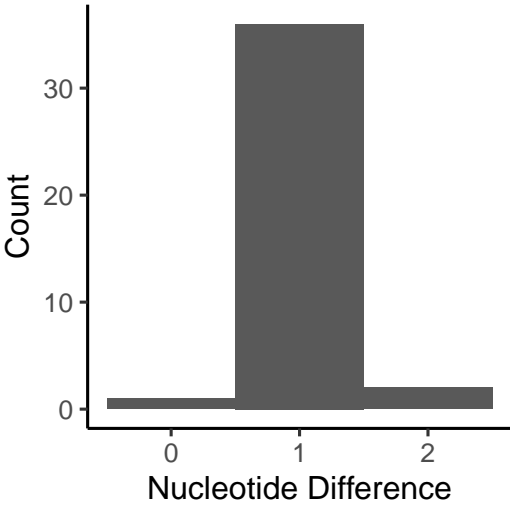
TRBV6-23\*ap01

1928 sequences assigned  
1908 (99%) exact matches, in which:  
1840 unique CDR3  
13 unique J



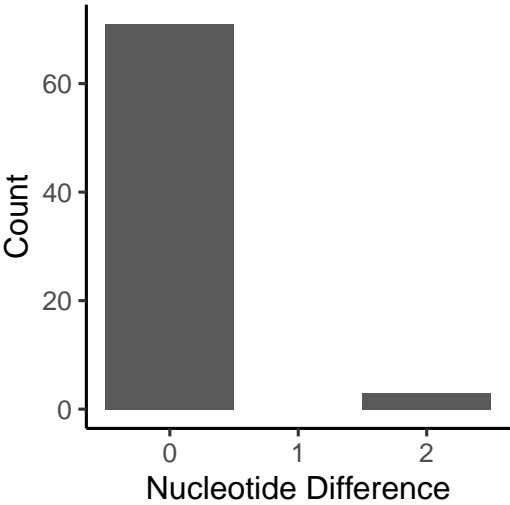
TRBV7-1\*ap01\_T296C

39 sequences assigned  
1 (2.6%) exact matches, in which:  
1 unique CDR3  
1 unique J



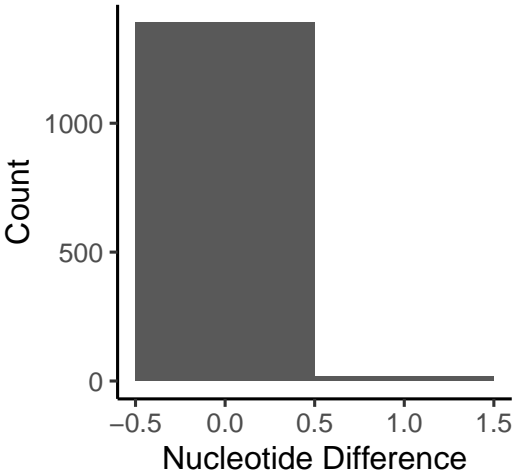
TRBV7-4\*ap01

74 sequences assigned  
71 (95.9%) exact matches, in which:  
69 unique CDR3  
13 unique J



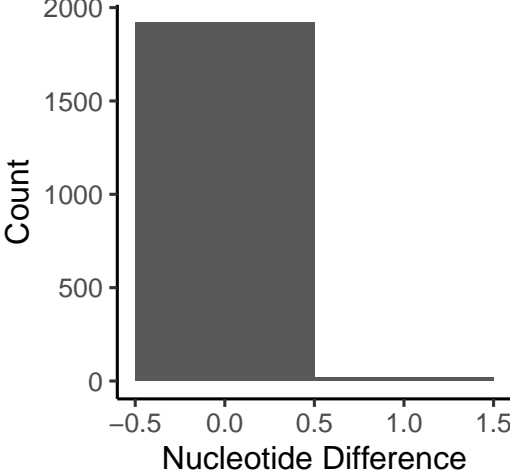
TRBV6-56\*ap01

1406 sequences assigned  
1390 (98.9%) exact matches, in which:  
1330 unique CDR3  
13 unique J



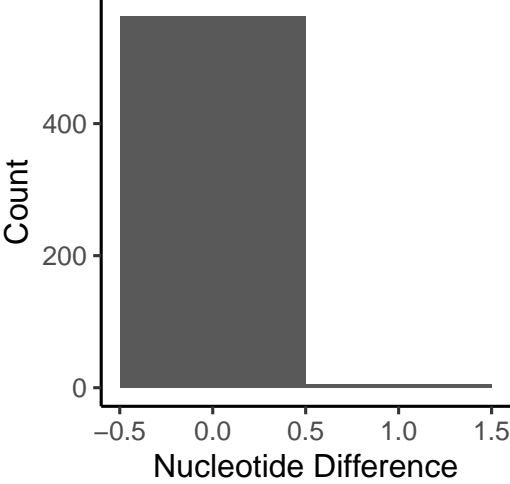
TRBV7-2\*ap01

1938 sequences assigned  
1919 (99%) exact matches, in which:  
1852 unique CDR3  
13 unique J



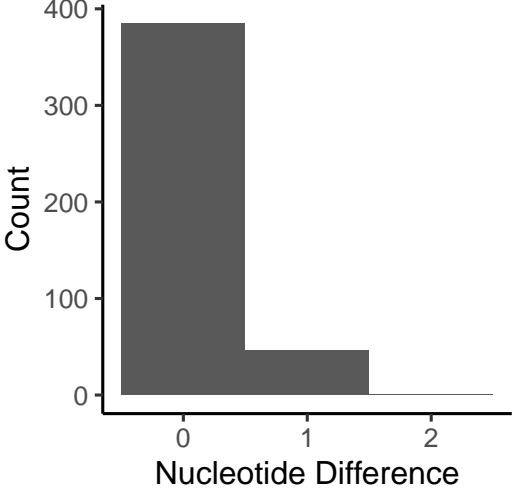
TRBV7-6\*ap01

568 sequences assigned  
563 (99.1%) exact matches, in which:  
542 unique CDR3  
13 unique J



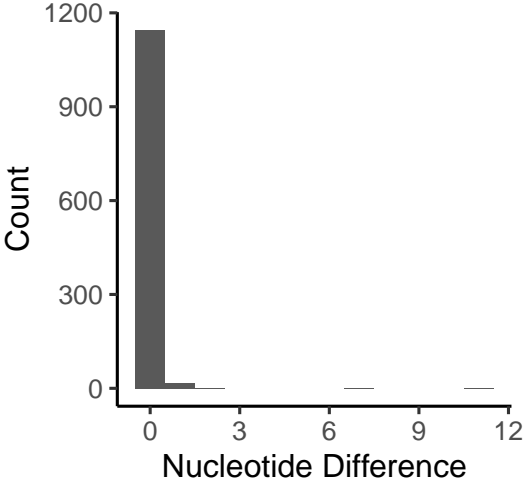
TRBV6-56\*ap02

432 sequences assigned  
385 (89.1%) exact matches, in which:  
375 unique CDR3  
13 unique J



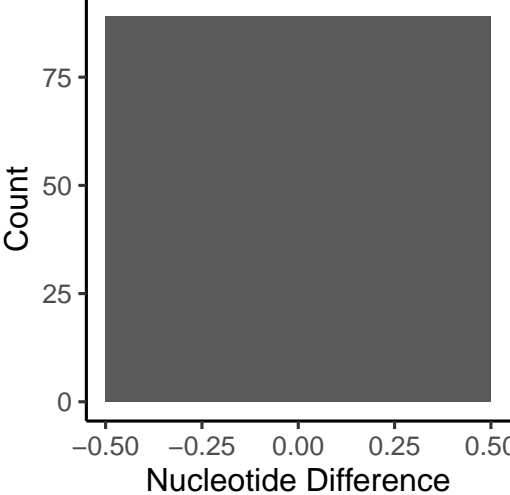
TRBV7-3\*ap01

1164 sequences assigned  
1145 (98.4%) exact matches, in which:  
1104 unique CDR3  
13 unique J



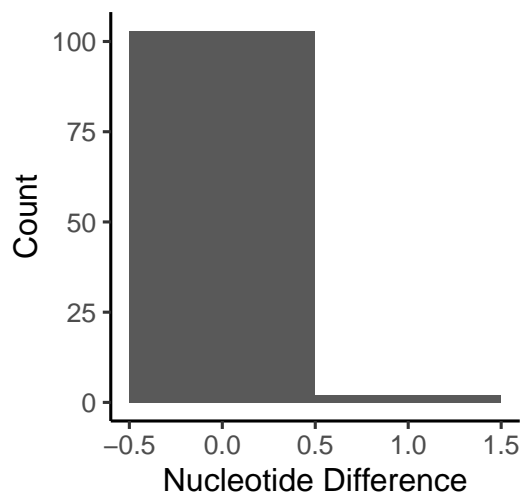
TRBV7-7\*ap01

89 sequences assigned  
89 (100%) exact matches, in which:  
87 unique CDR3  
12 unique J



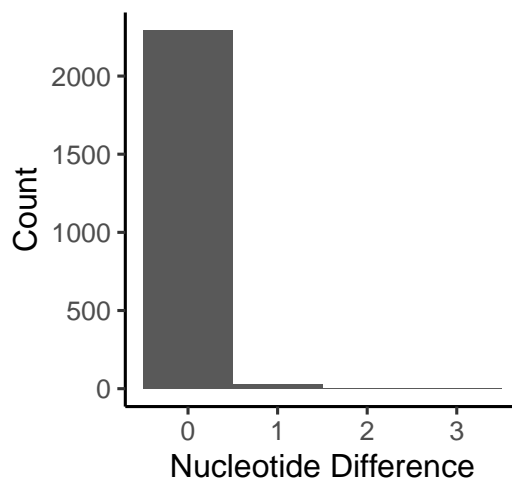
### TRBV7-7\*ap01\_C315T

105 sequences assigned  
103 (98.1%) exact matches, in which:  
100 unique CDR3  
13 unique J



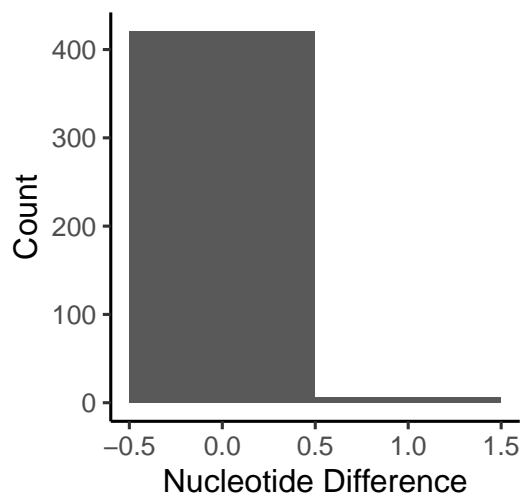
### TRBV7-9\*ap01

2323 sequences assigned  
2292 (98.7%) exact matches, in which:  
2222 unique CDR3  
13 unique J



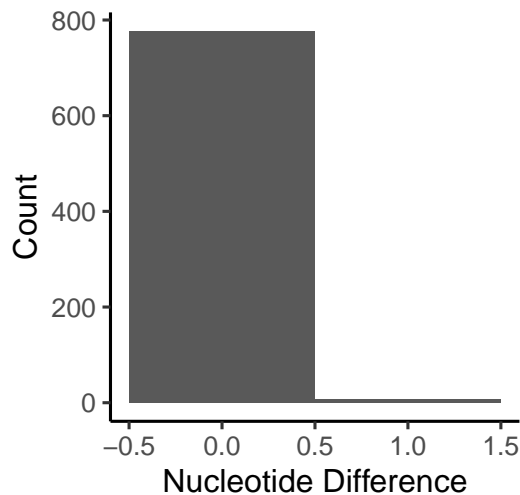
### TRBV7-8\*ap01

427 sequences assigned  
421 (98.6%) exact matches, in which:  
409 unique CDR3  
13 unique J



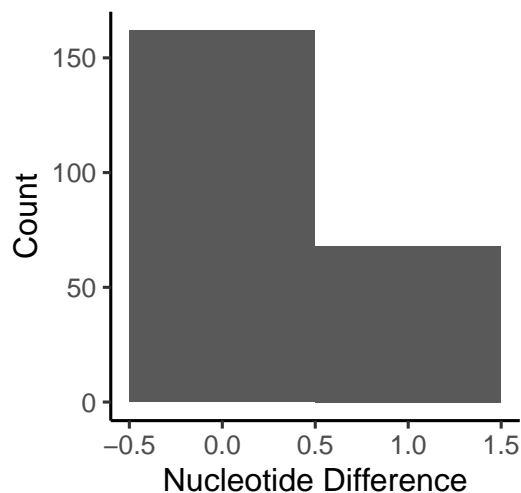
### TRBV29-1\*ap01

784 sequences assigned  
777 (99.1%) exact matches, in which:  
752 unique CDR3  
13 unique J



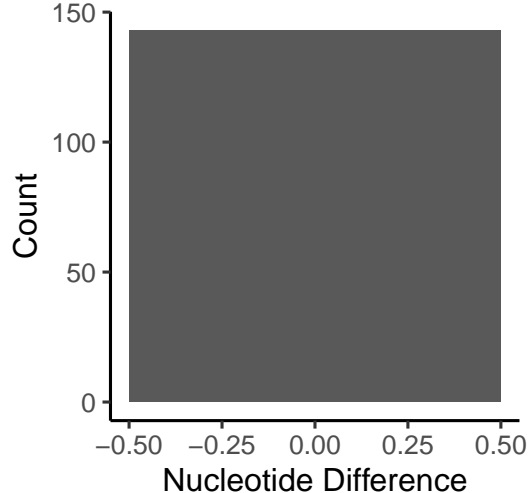
### TRBV7-8\*ap03

230 sequences assigned  
162 (70.4%) exact matches, in which:  
152 unique CDR3  
13 unique J

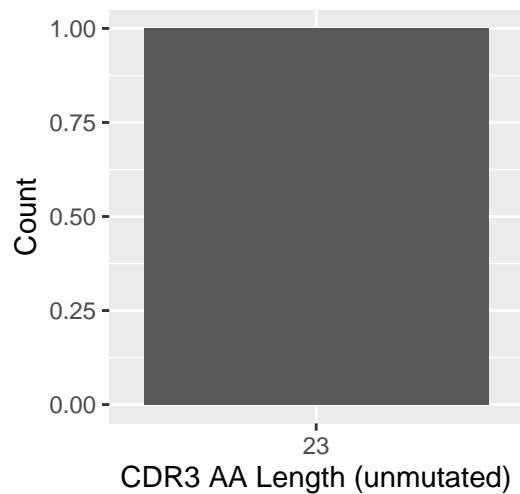


### TRBV29-1\*ap02

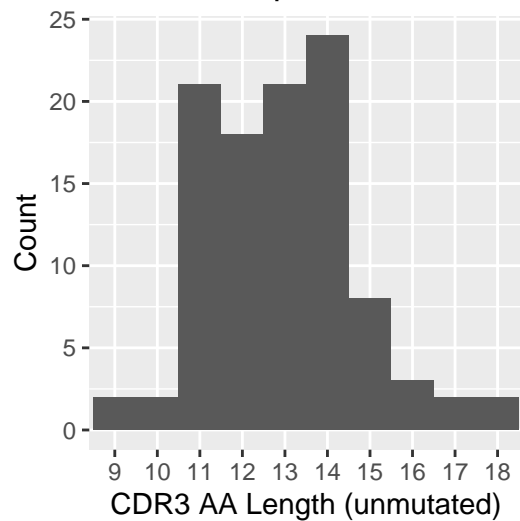
143 sequences assigned  
143 (100%) exact matches, in which:  
138 unique CDR3  
13 unique J



TRBV7-1\*ap01\_T296C



TRBV7-7\*ap01\_C315T





[illegible]