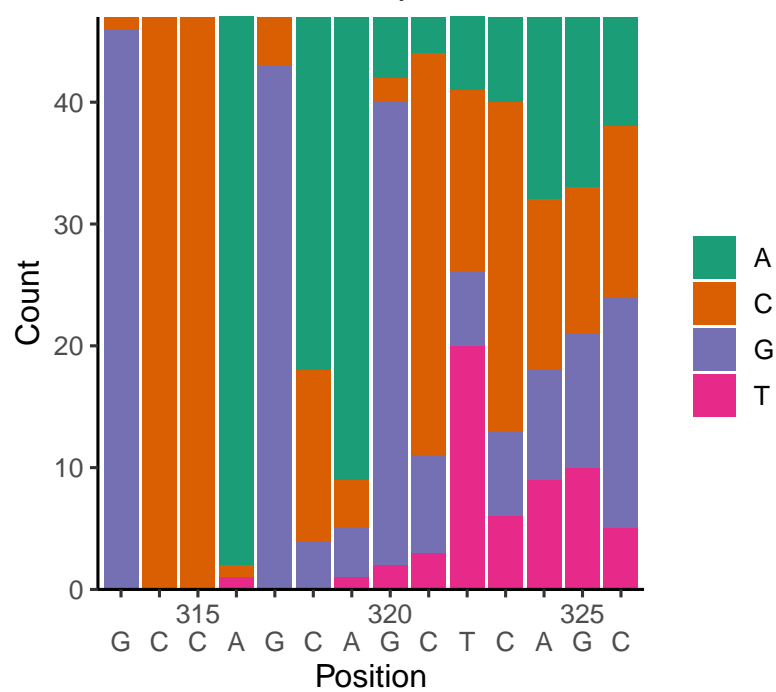
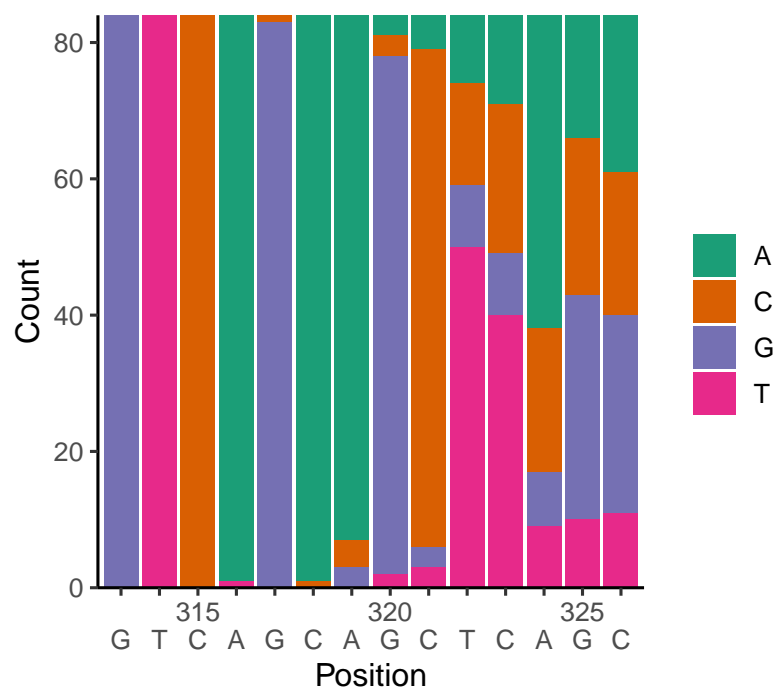


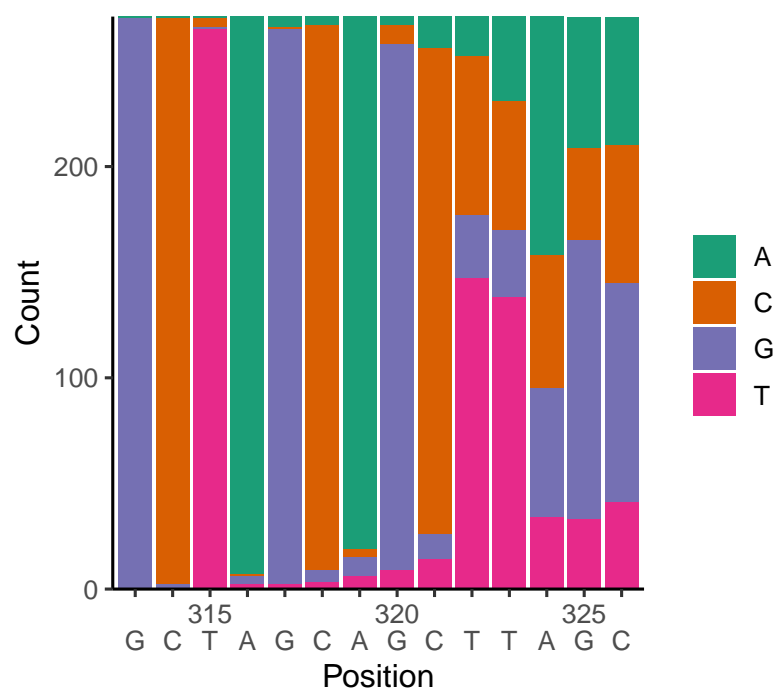
Gene TRBV7-1\*ap01\_T296C



Gene TRBV7-1\*ap01\_T296C\_C314T



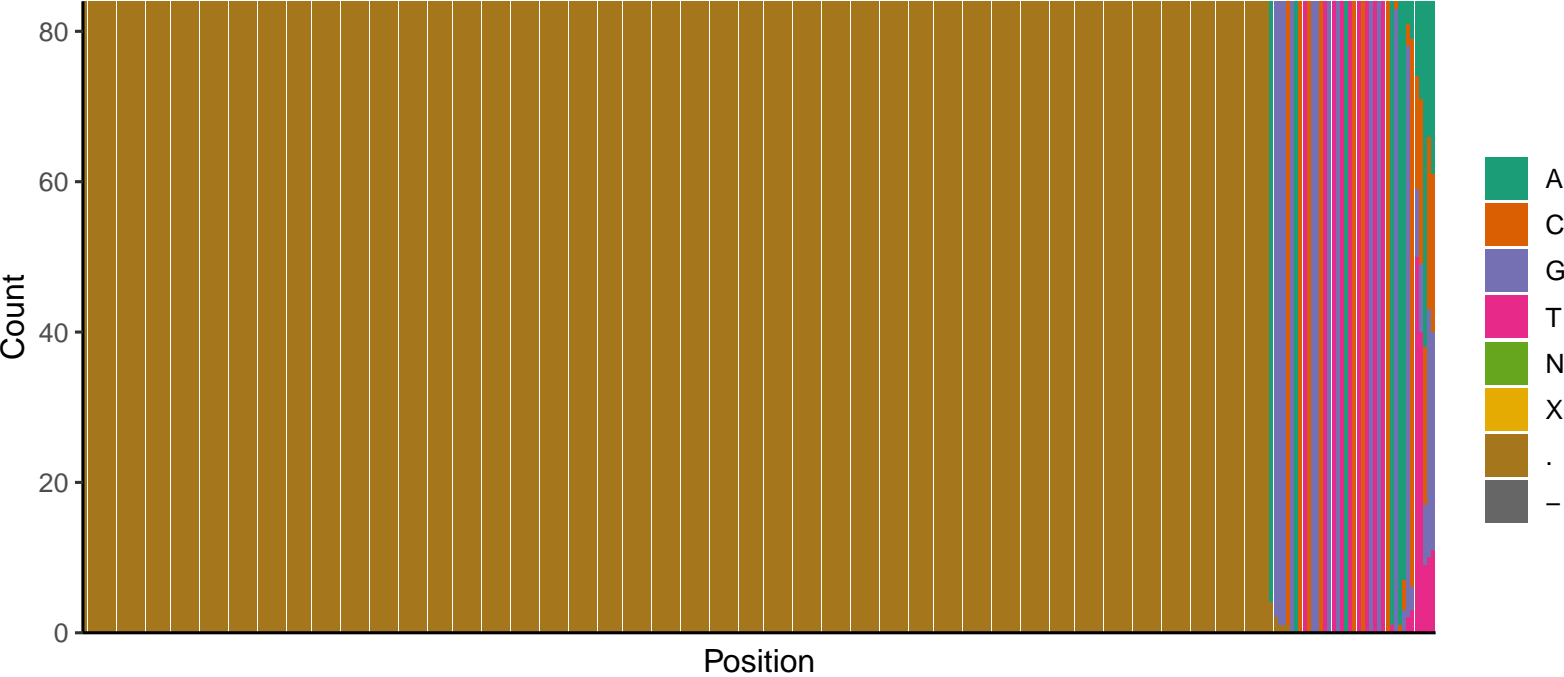
Gene TRBV7-7\*ap01\_C307A\_C315T



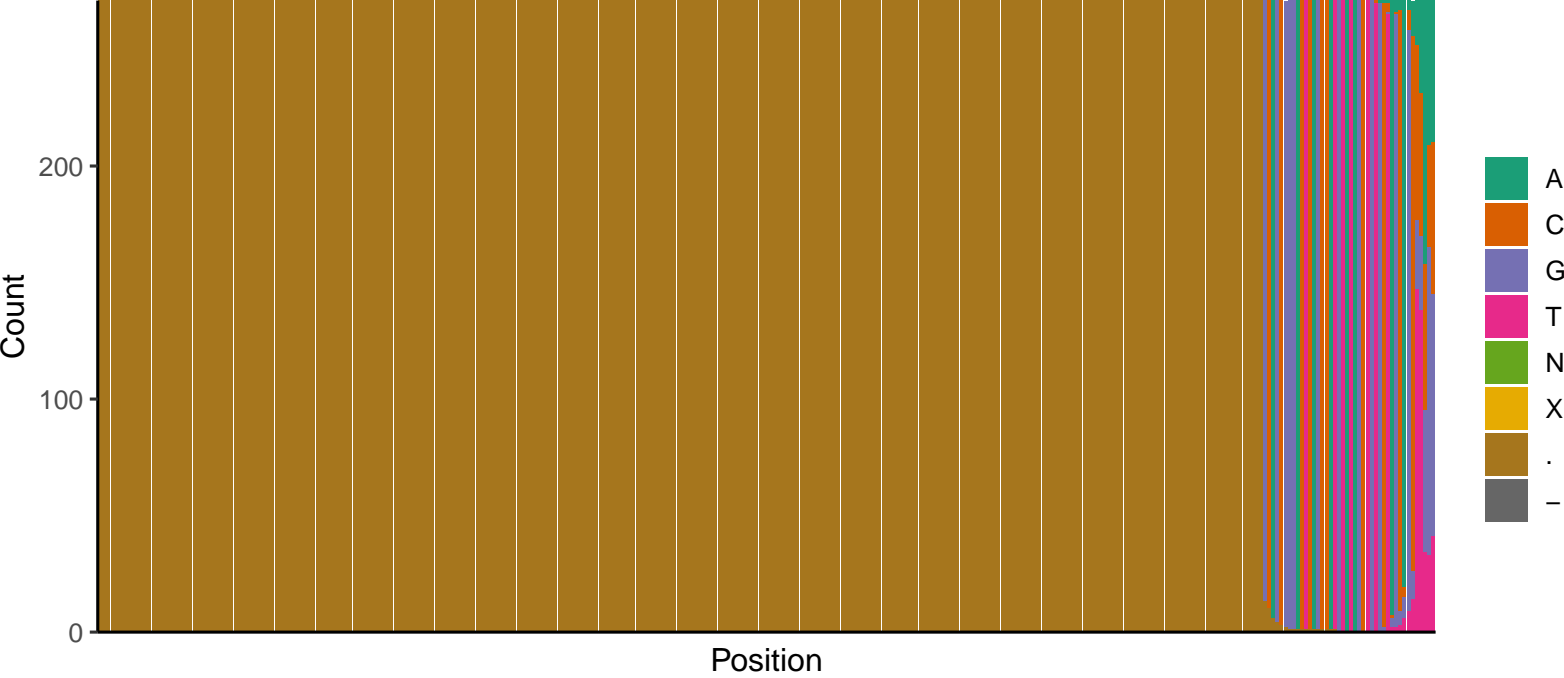
Gene TRBV7-1\*ap01\_T296C



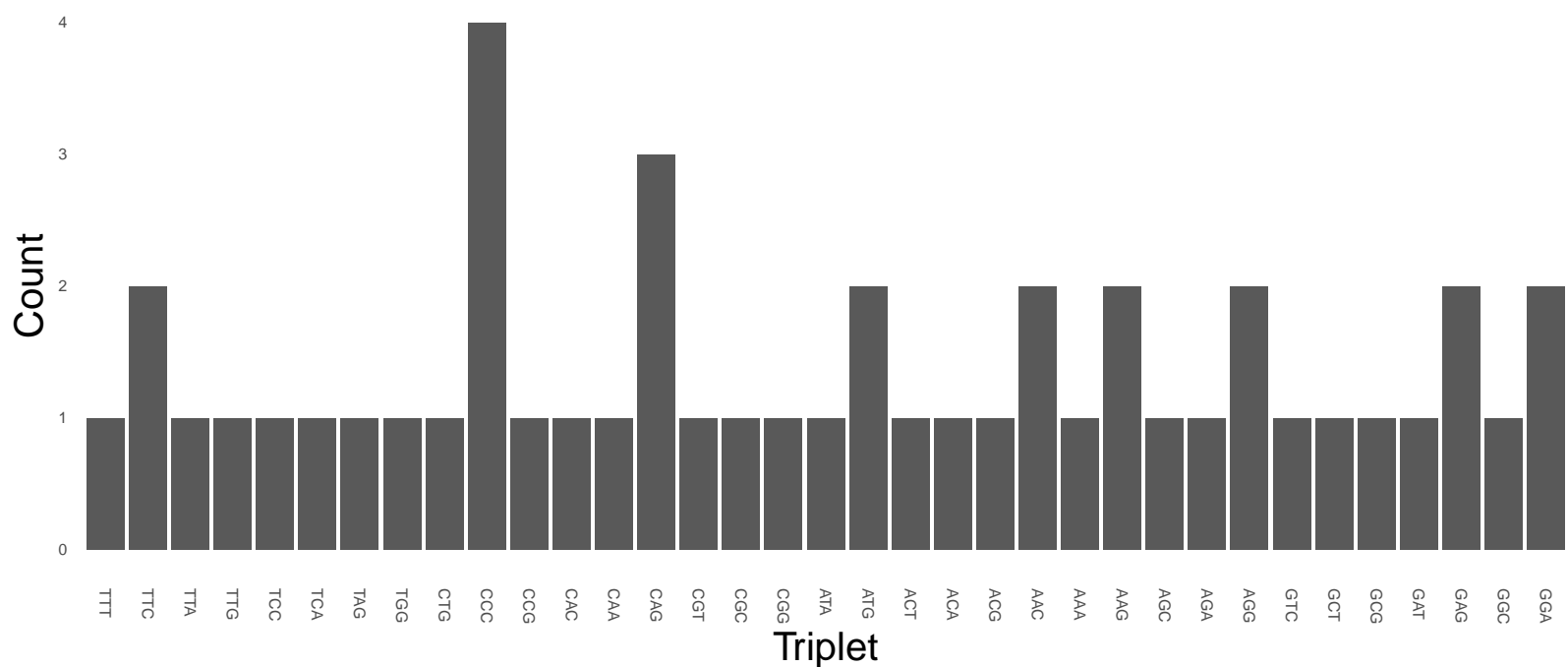
Gene TRBV7-1\*ap01\_T296C\_C314T



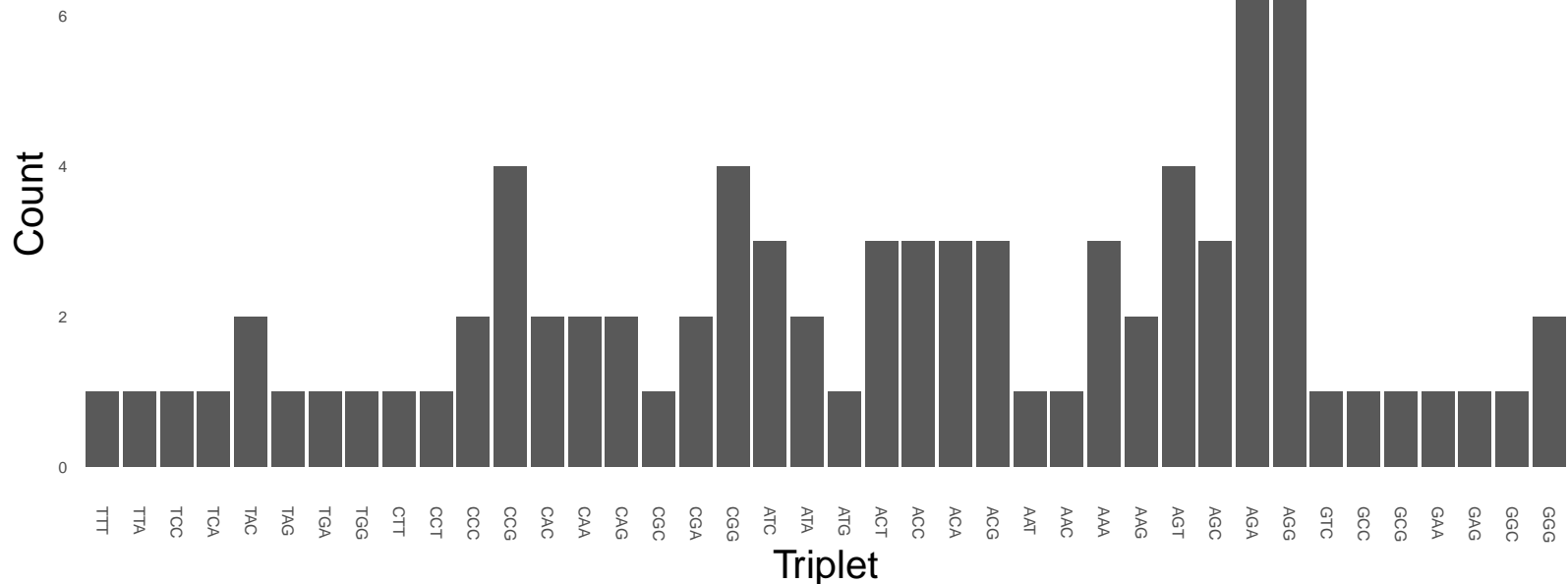
Gene TRBV7-7\*ap01\_C307A\_C315T



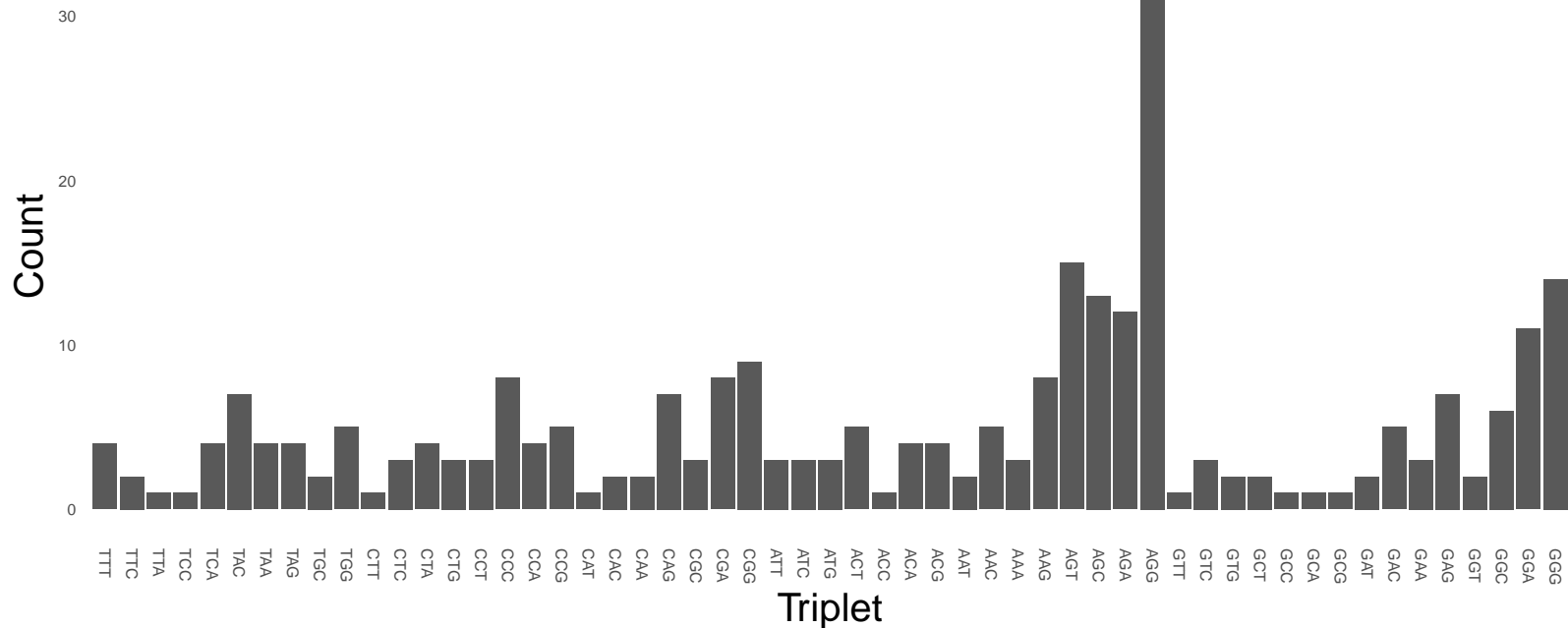
TRBV7-1\*ap01\_T296C- Final 3 nucleotides as a triplet



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

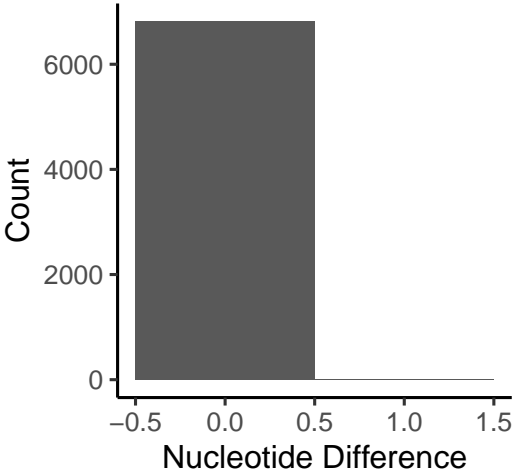


TRBV7-7\*ap01\_C307A\_C315T- Final 3 nucleotides as a triplet



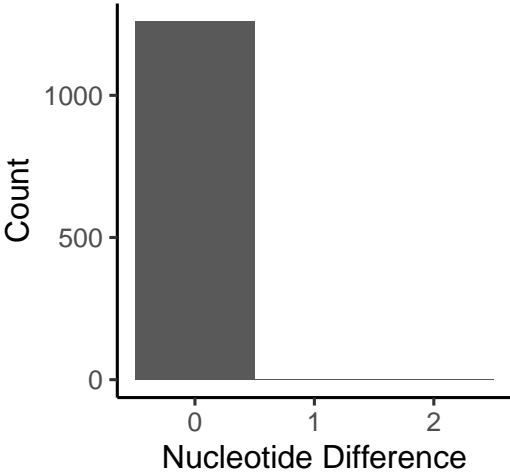
TRBV20-1\*ap01

6828 sequences assigned  
6815 (99.8%) exact matches, in which:  
6805 unique CDR3  
13 unique J



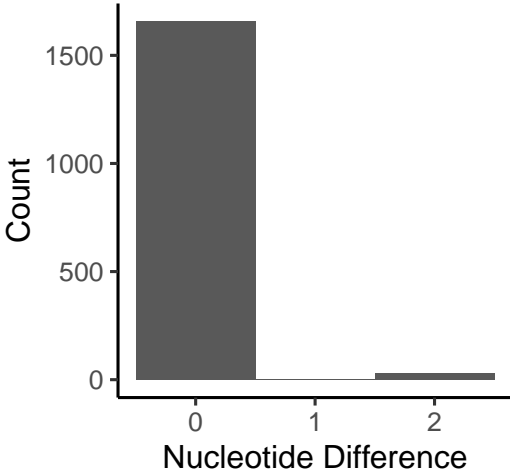
TRBV10-2\*ap01

1263 sequences assigned  
1260 (99.8%) exact matches, in which:  
1260 unique CDR3  
13 unique J



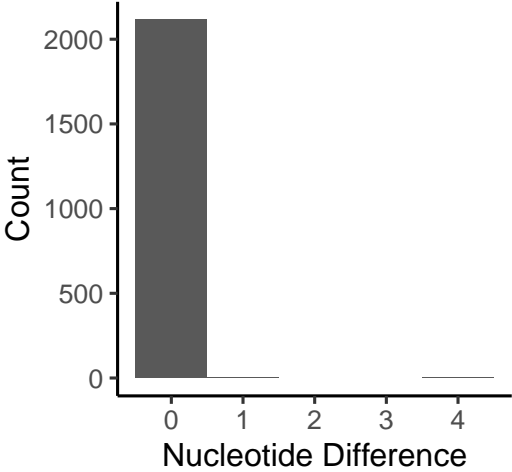
TRBV13\*ap01

1686 sequences assigned  
1657 (98.3%) exact matches, in which:  
1651 unique CDR3  
13 unique J



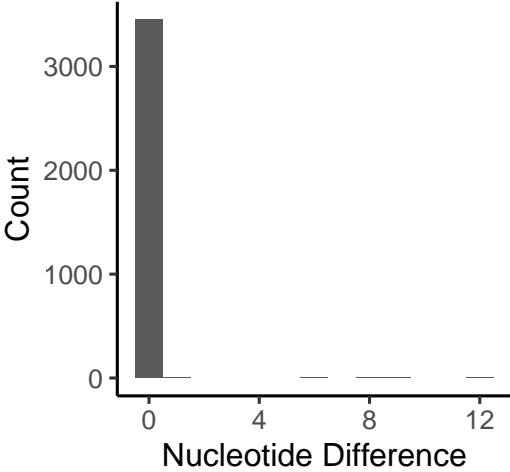
TRBV10-1\*ap01

2121 sequences assigned  
2115 (99.7%) exact matches, in which:  
2115 unique CDR3  
13 unique J



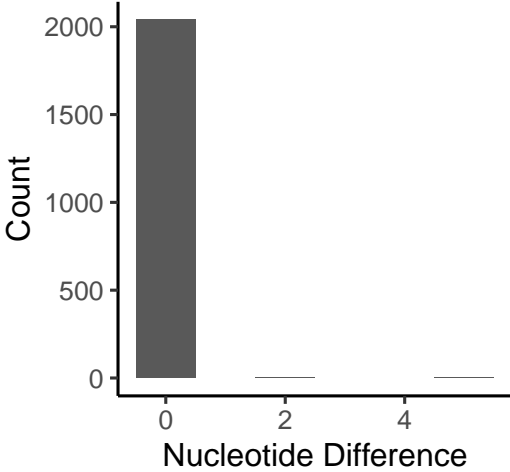
TRBV10-3\*ap01

3462 sequences assigned  
3450 (99.7%) exact matches, in which:  
3450 unique CDR3  
13 unique J



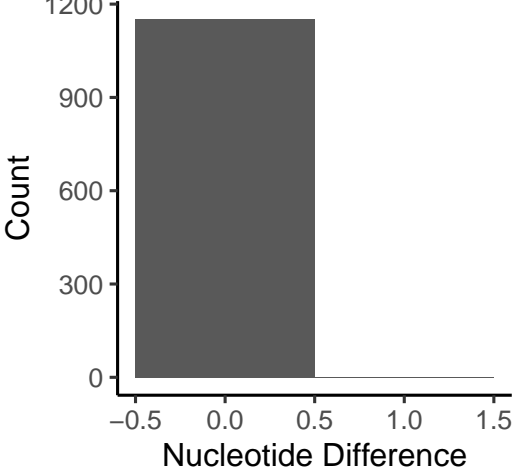
TRBV14\*ap01

2044 sequences assigned  
2040 (99.8%) exact matches, in which:  
2040 unique CDR3  
13 unique J



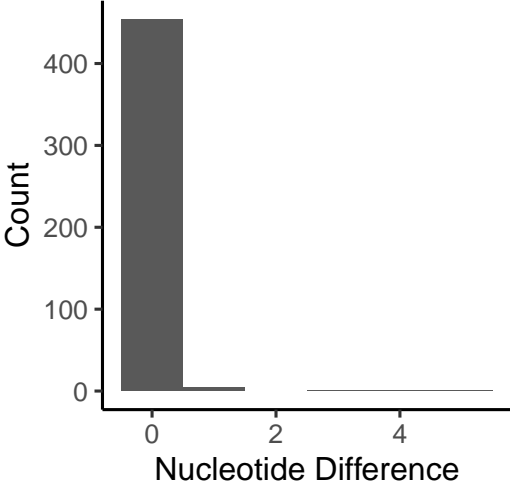
TRBV20-1\*ap02

1154 sequences assigned  
1152 (99.8%) exact matches, in which:  
1150 unique CDR3  
13 unique J



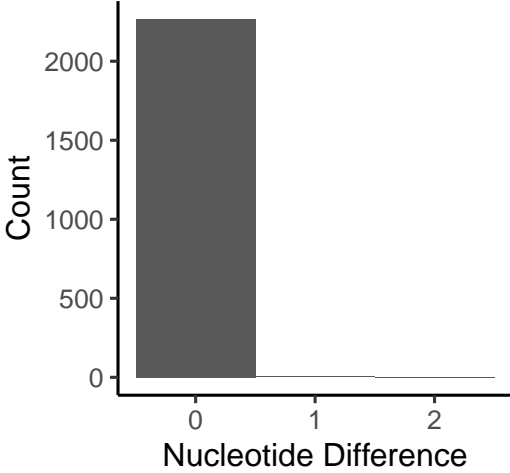
TRBV1\*ap01

461 sequences assigned  
454 (98.5%) exact matches, in which:  
453 unique CDR3  
13 unique J



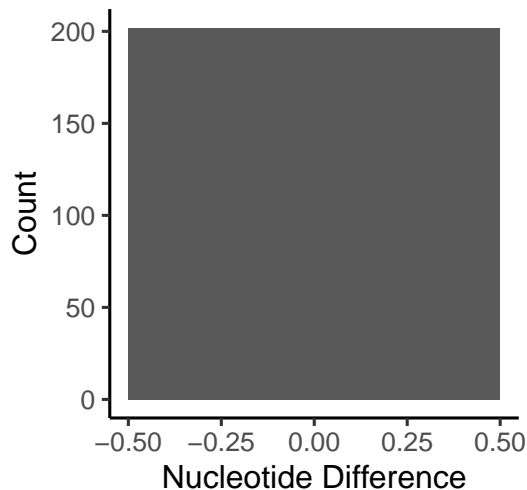
TRBV15\*ap02

2272 sequences assigned  
2267 (99.8%) exact matches, in which:  
2263 unique CDR3  
13 unique J



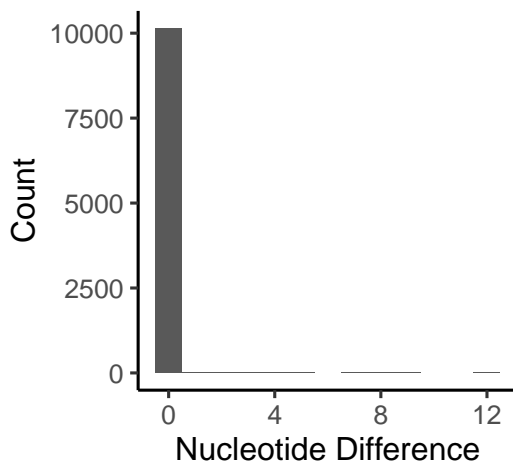
### TRBV16\*ap01

202 sequences assigned  
202 (100%) exact matches, in which:  
202 unique CDR3  
13 unique J



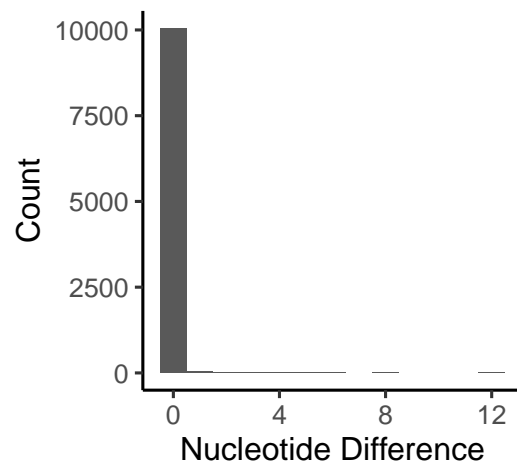
### TRBV19\*ap01

10176 sequences assigned  
10148 (99.7%) exact matches, in which:  
10147 unique CDR3  
13 unique J



### TRBV27\*ap01

10099 sequences assigned  
10052 (99.5%) exact matches, in which:  
10023 unique CDR3  
13 unique J



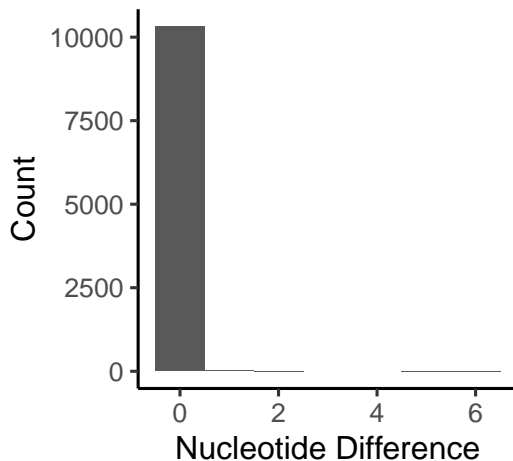
### TRBV17\*ap01

2 sequences assigned  
No exact matches.



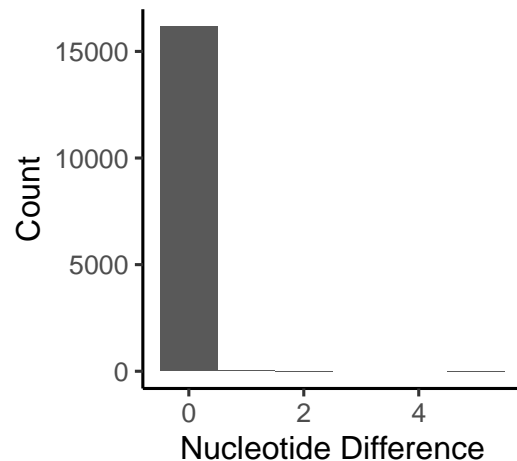
### TRBV2\*ap01

10355 sequences assigned  
10320 (99.7%) exact matches, in which:  
10293 unique CDR3  
13 unique J



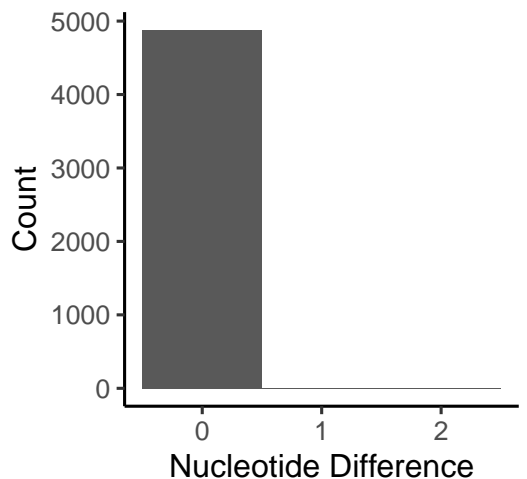
### TRBV28\*ap01

16198 sequences assigned  
16169 (99.8%) exact matches, in which:  
16164 unique CDR3  
13 unique J



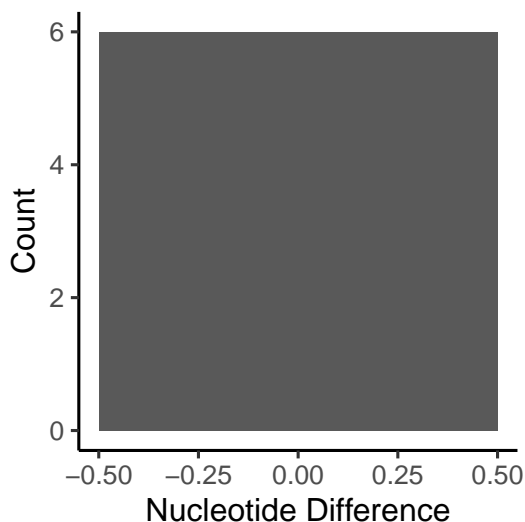
### TRBV18\*ap01

4883 sequences assigned  
4878 (99.9%) exact matches, in which:  
4875 unique CDR3  
13 unique J



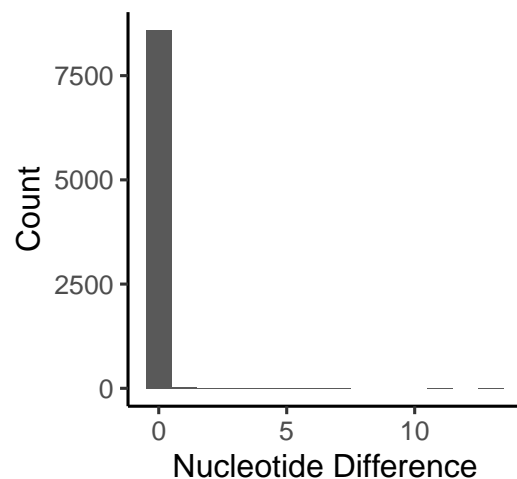
### TRBV26\*ap01

6 sequences assigned  
6 (100%) exact matches, in which:  
6 unique CDR3  
2 unique J



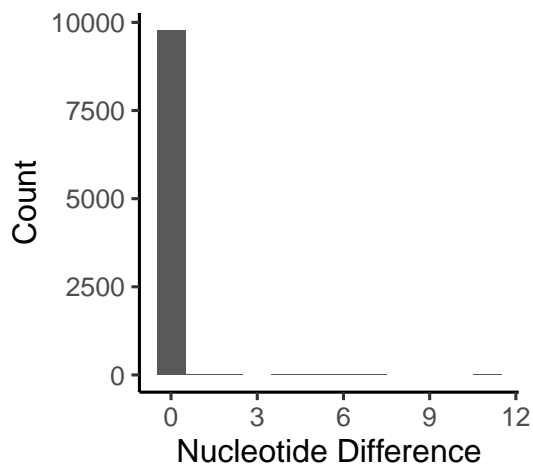
### TRBV30\*ap01

8635 sequences assigned  
8594 (99.5%) exact matches, in which:  
8577 unique CDR3  
13 unique J



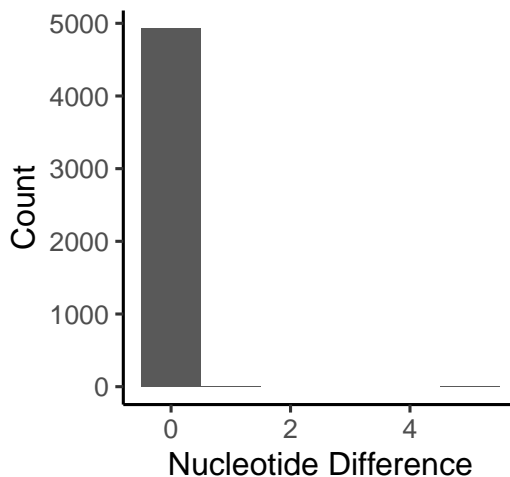
### TRBV9\*ap01

9800 sequences assigned  
9780 (99.8%) exact matches, in which:  
9773 unique CDR3  
13 unique J



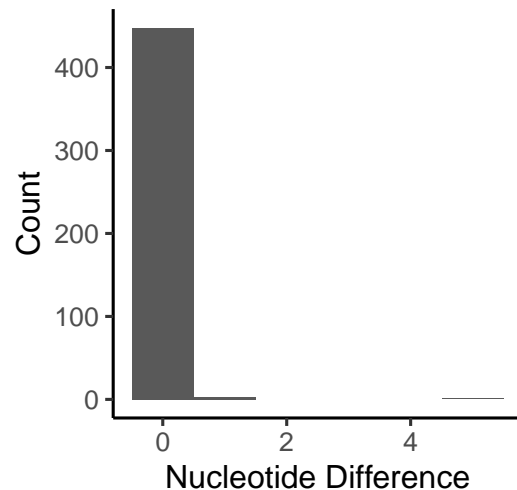
### TRBV11-2\*ap01

4934 sequences assigned  
4930 (99.9%) exact matches, in which:  
4927 unique CDR3  
13 unique J



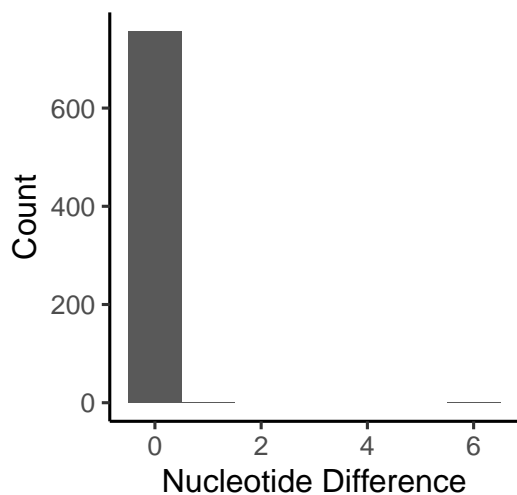
### TRBV12-2\*ap01

452 sequences assigned  
448 (99.1%) exact matches, in which:  
448 unique CDR3  
13 unique J



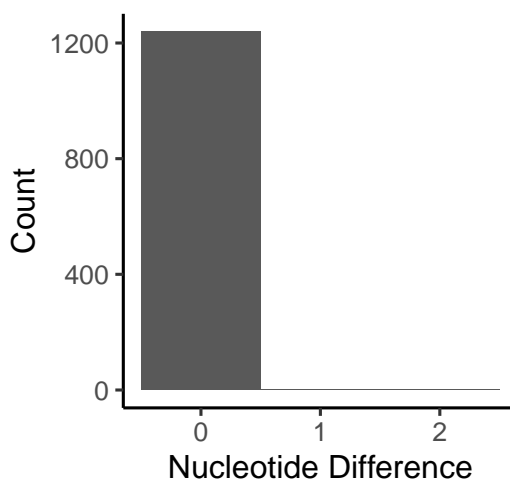
### TRBV11-1\*ap01

759 sequences assigned  
757 (99.7%) exact matches, in which:  
757 unique CDR3  
13 unique J



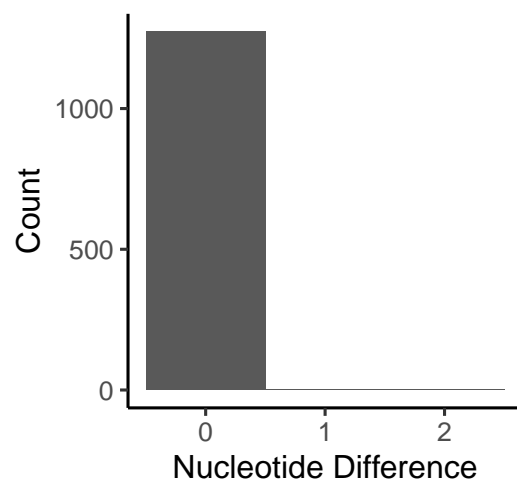
### TRBV11-3\*ap01

1243 sequences assigned  
1239 (99.7%) exact matches, in which:  
1239 unique CDR3  
13 unique J



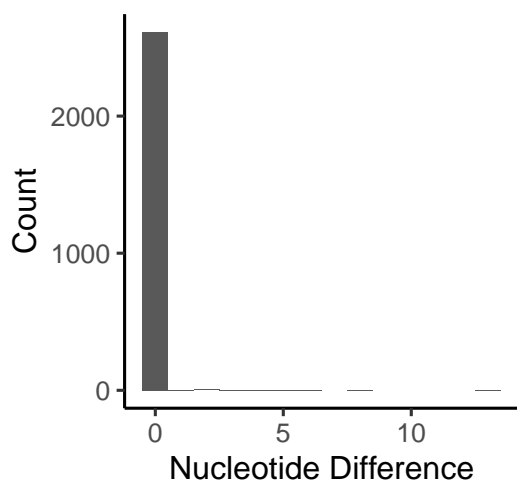
### TRBV12-5\*ap01

1278 sequences assigned  
1273 (99.6%) exact matches, in which:  
1273 unique CDR3  
13 unique J



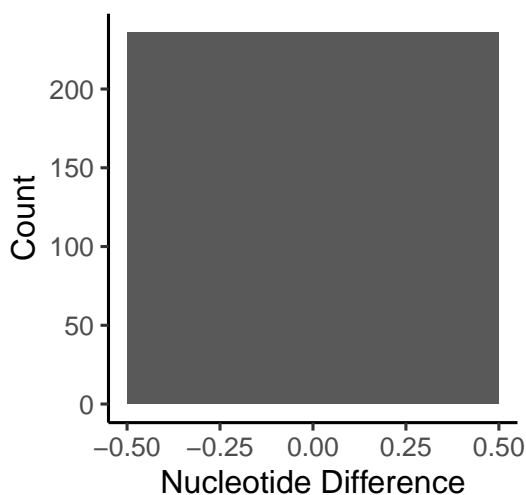
### TRBV21-1\*ap01

2636 sequences assigned  
2613 (99.1%) exact matches, in which:  
2613 unique CDR3  
14 unique J



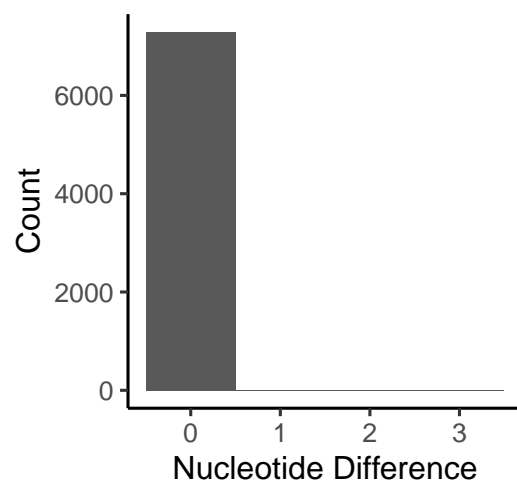
### TRBV12-1\*ap01

236 sequences assigned  
236 (100%) exact matches, in which:  
236 unique CDR3  
13 unique J



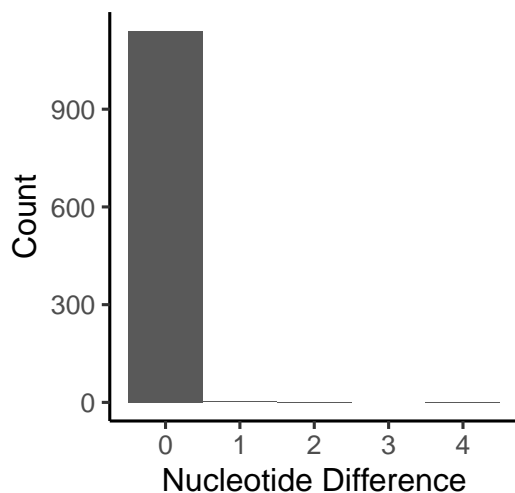
### TRBV12-34\*ap01

7303 sequences assigned  
7289 (99.8%) exact matches, in which:  
7284 unique CDR3  
13 unique J



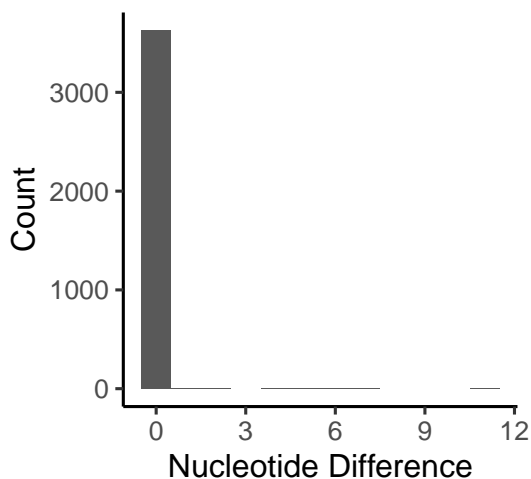
### TRBV23–1\*ap01

1147 sequences assigned  
1141 (99.5%) exact matches, in which:  
1141 unique CDR3  
13 unique J



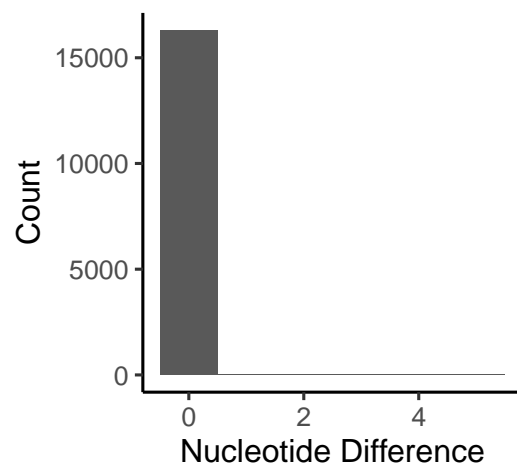
### TRBV24–1\*ap01

3648 sequences assigned  
3627 (99.4%) exact matches, in which:  
3622 unique CDR3  
13 unique J



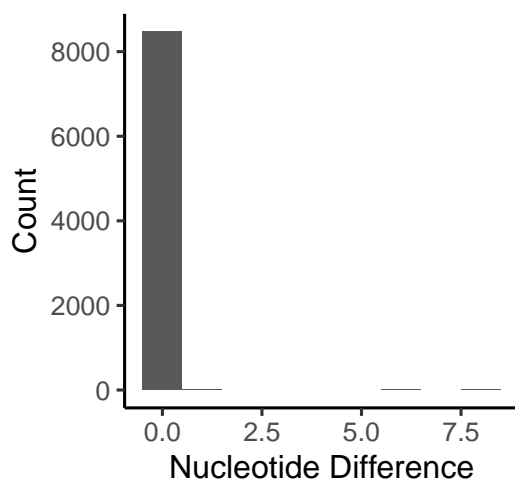
### TRBV5–1\*ap01

16337 sequences assigned  
16305 (99.8%) exact matches, in which:  
16266 unique CDR3  
13 unique J



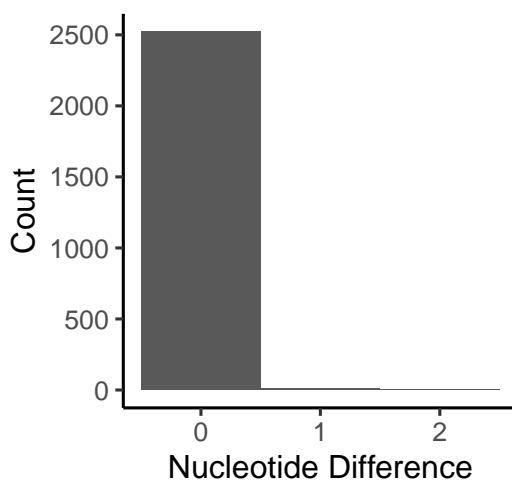
### TRBV3–12\*ap01

8494 sequences assigned  
8471 (99.7%) exact matches, in which:  
8459 unique CDR3  
13 unique J



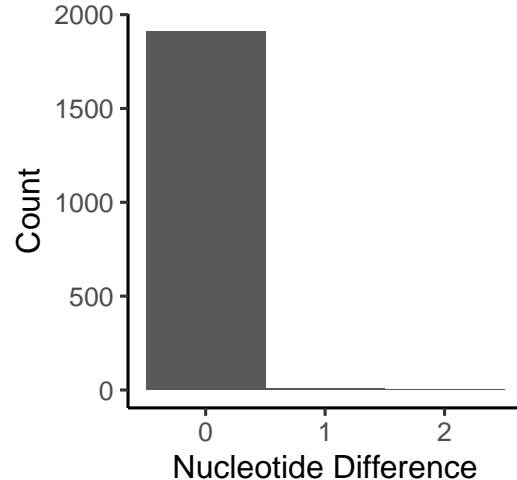
### TRBV4–2\*ap01

2534 sequences assigned  
2522 (99.5%) exact matches, in which:  
2517 unique CDR3  
13 unique J



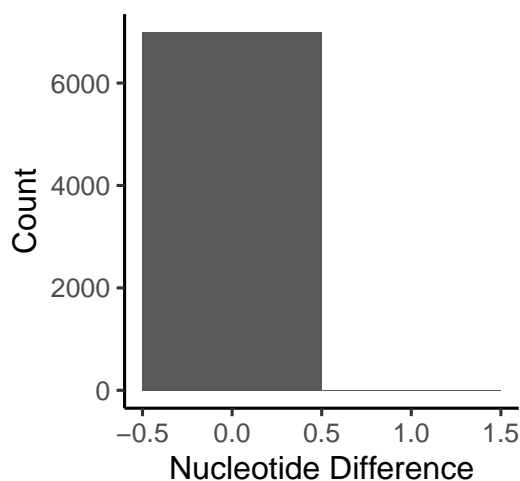
### TRBV25–1\*ap01

1923 sequences assigned  
1909 (99.3%) exact matches, in which:  
1905 unique CDR3  
13 unique J



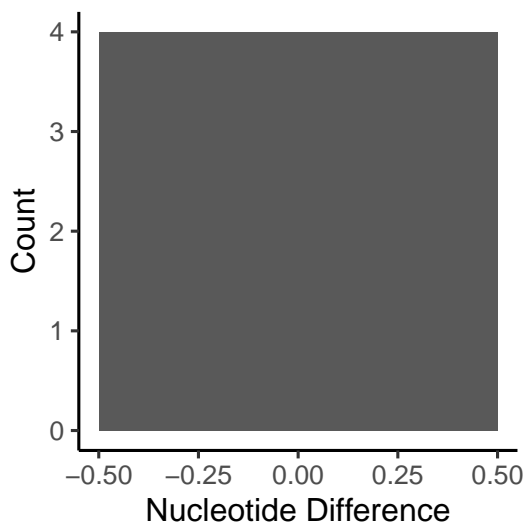
### TRBV4–1\*ap01

7008 sequences assigned  
6996 (99.8%) exact matches, in which:  
6992 unique CDR3  
13 unique J



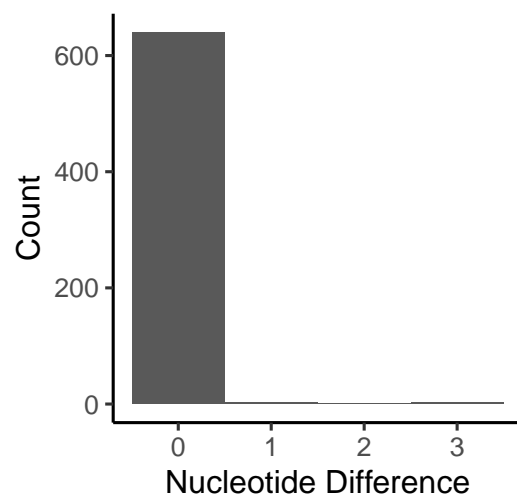
### TRBV4–3\*ap01

4 sequences assigned  
4 (100%) exact matches, in which:  
4 unique CDR3  
3 unique J



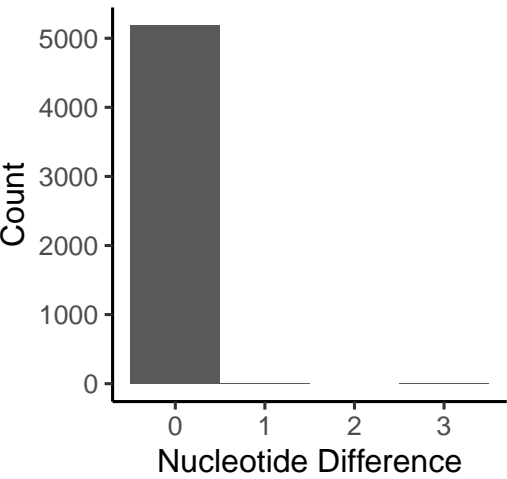
### TRBV5–3\*ap01

645 sequences assigned  
640 (99.2%) exact matches, in which:  
640 unique CDR3  
13 unique J



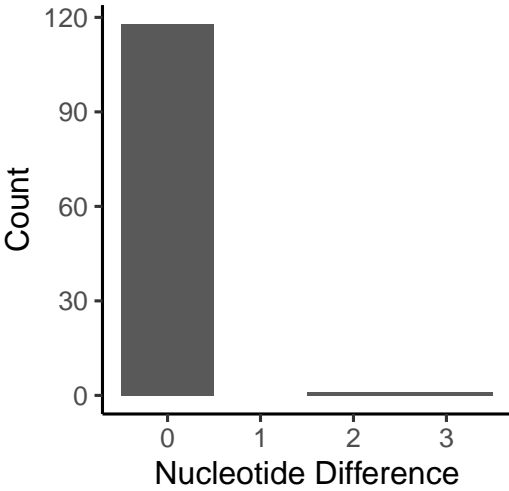
TRBV5-4\*ap01

5199 sequences assigned  
5186 (99.7%) exact matches, in which:  
5182 unique CDR3  
13 unique J



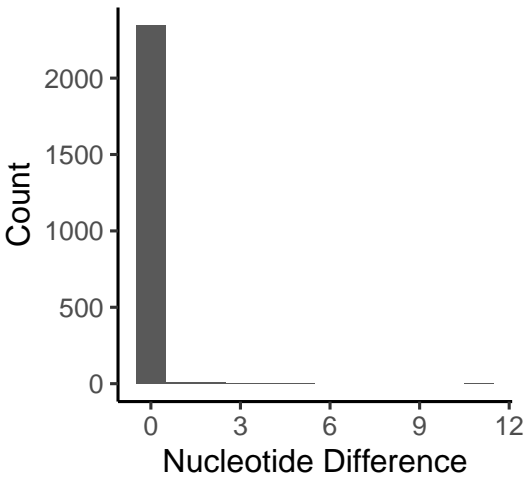
TRBV5-7\*ap01

120 sequences assigned  
118 (98.3%) exact matches, in which:  
118 unique CDR3  
13 unique J



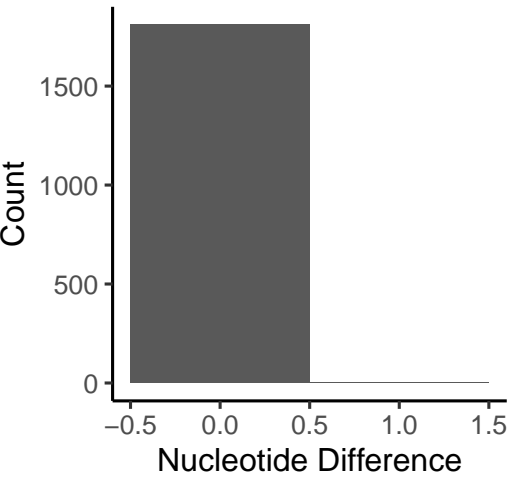
TRBV6-4\*ap01

2364 sequences assigned  
2345 (99.2%) exact matches, in which:  
2345 unique CDR3  
13 unique J



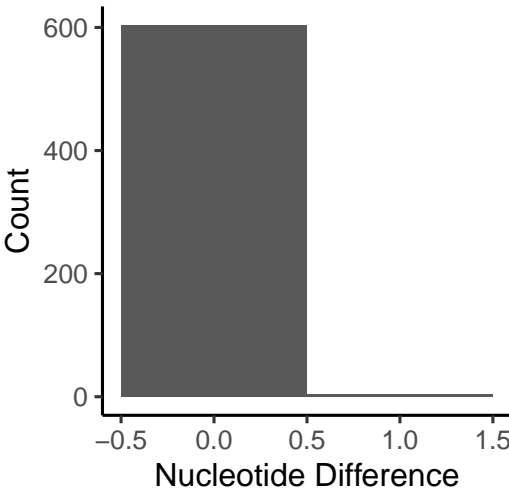
TRBV5-5\*ap01

1811 sequences assigned  
1810 (99.9%) exact matches, in which:  
1807 unique CDR3  
13 unique J



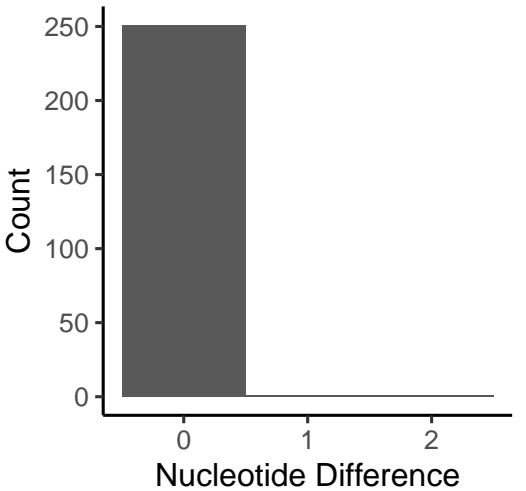
TRBV5-8\*ap01

608 sequences assigned  
604 (99.3%) exact matches, in which:  
604 unique CDR3  
13 unique J



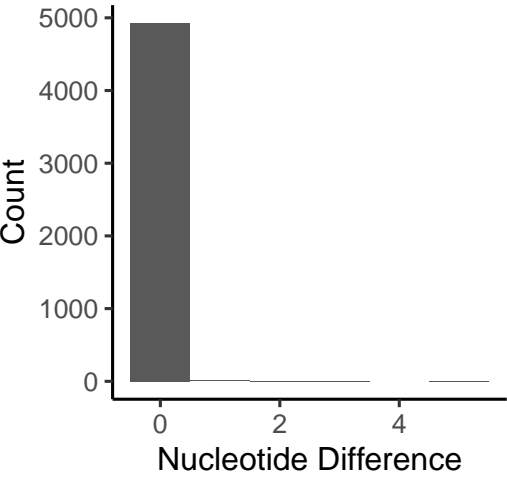
TRBV6-7\*ap01

253 sequences assigned  
251 (99.2%) exact matches, in which:  
251 unique CDR3  
13 unique J



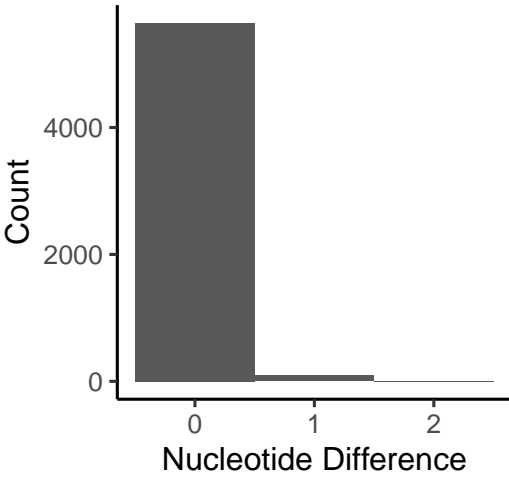
TRBV5-6\*ap01

4940 sequences assigned  
4928 (99.8%) exact matches, in which:  
4923 unique CDR3  
13 unique J



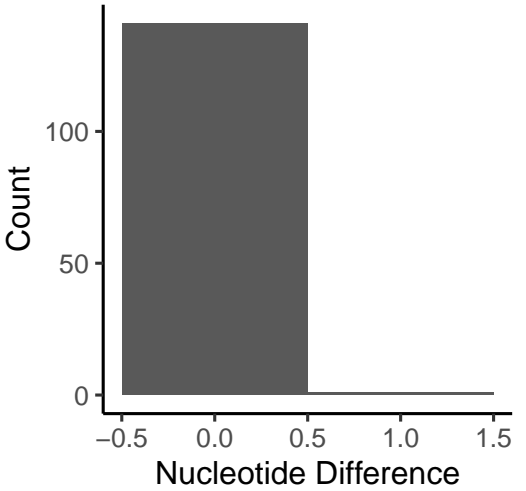
TRBV6-1\*ap01

5741 sequences assigned  
5646 (98.3%) exact matches, in which:  
5633 unique CDR3  
13 unique J



TRBV6-8\*ap01

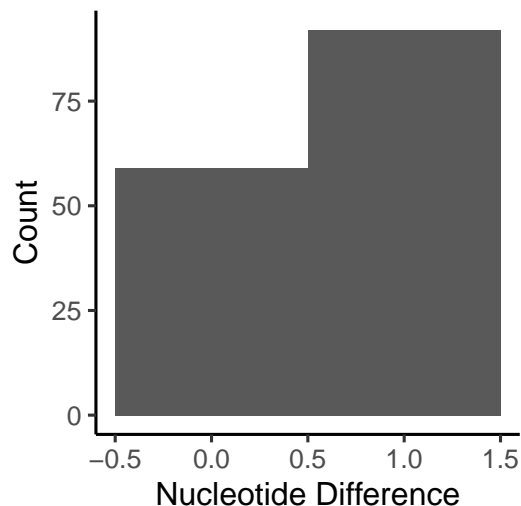
142 sequences assigned  
141 (99.3%) exact matches, in which:  
141 unique CDR3  
13 unique J





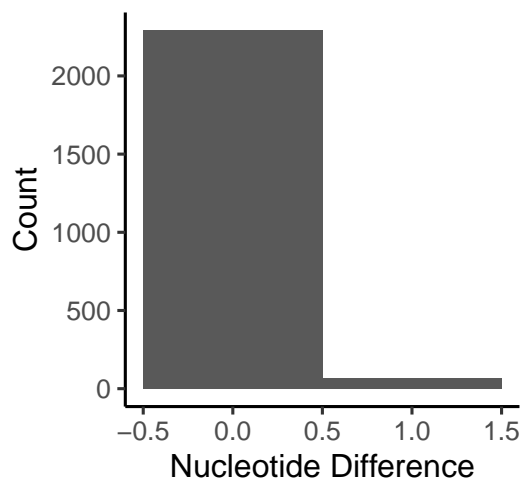
### TRBV6-9\*ap01

151 sequences assigned  
59 (39.1%) exact matches, in which:  
59 unique CDR3  
12 unique J



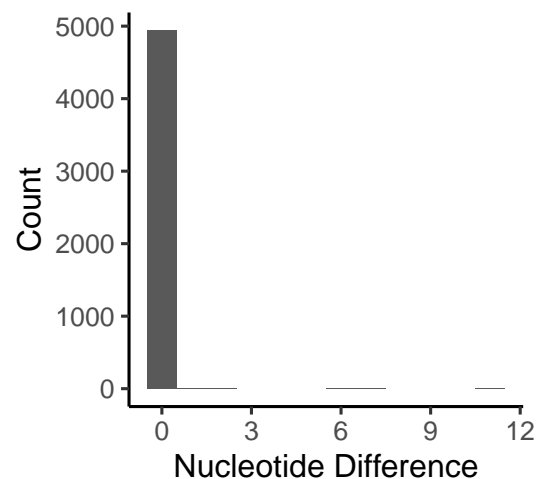
### TRBV6-56\*ap02

2359 sequences assigned  
2291 (97.1%) exact matches, in which:  
2286 unique CDR3  
13 unique J



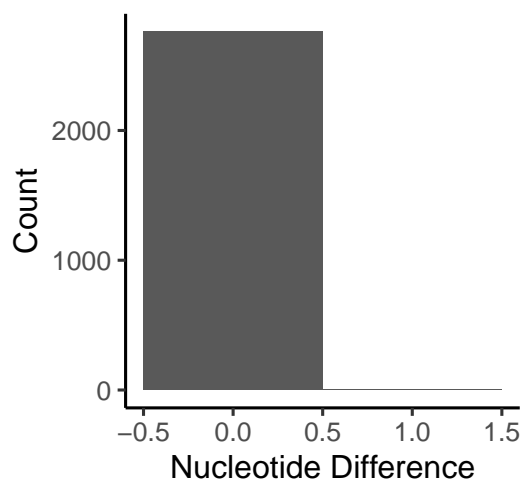
### TRBV7-2\*ap01

4952 sequences assigned  
4941 (99.8%) exact matches, in which:  
4940 unique CDR3  
13 unique J



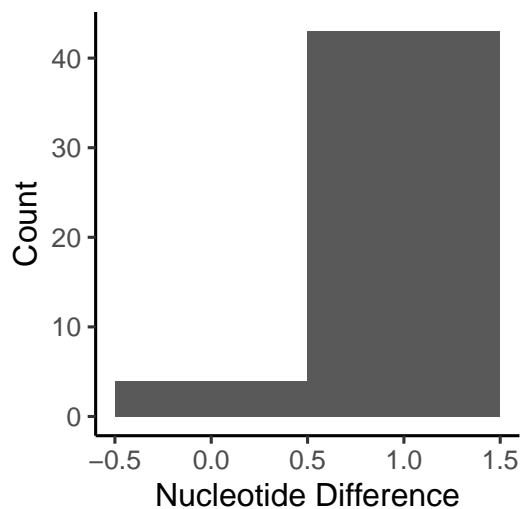
### TRBV6-23\*ap01

2765 sequences assigned  
2761 (99.9%) exact matches, in which:  
2753 unique CDR3  
13 unique J



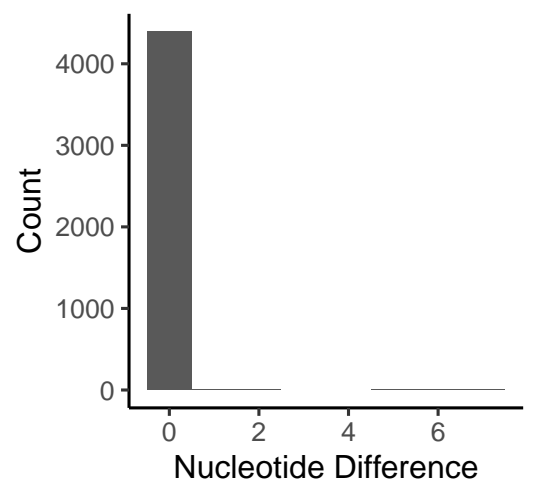
### TRBV7-1\*ap01\_T296C

47 sequences assigned  
4 (8.5%) exact matches, in which:  
4 unique CDR3  
4 unique J



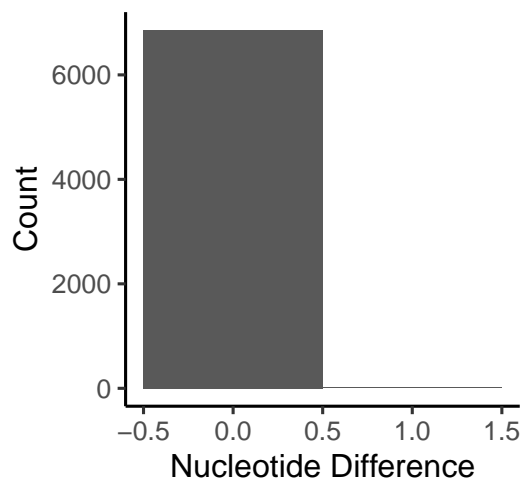
### TRBV7-3\*ap01

4406 sequences assigned  
4393 (99.7%) exact matches, in which:  
4389 unique CDR3  
13 unique J



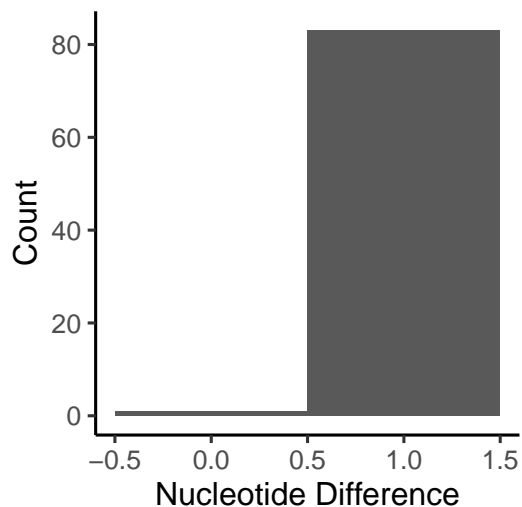
### TRBV6-56\*ap01

6871 sequences assigned  
6858 (99.8%) exact matches, in which:  
6848 unique CDR3  
13 unique J



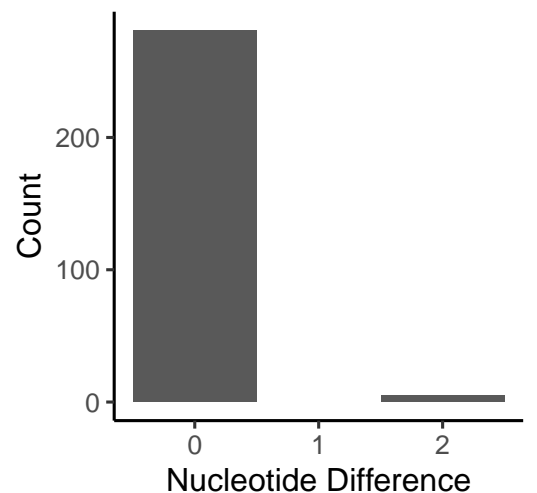
### TRBV7-1\*ap01\_T296C\_C

84 sequences assigned  
1 (1.2%) exact matches, in which:  
1 unique CDR3  
1 unique J



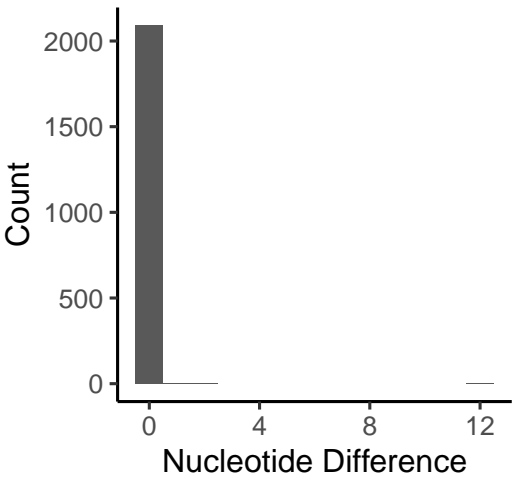
### TRBV7-4\*ap01

286 sequences assigned  
281 (98.3%) exact matches, in which:  
281 unique CDR3  
12 unique J



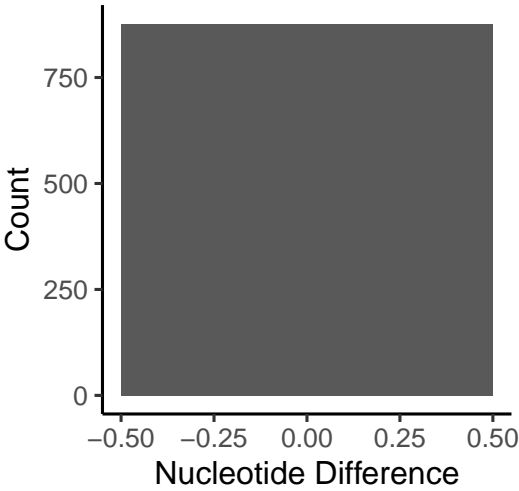
TRBV7-6\*ap01

2096 sequences assigned  
2091 (99.8%) exact matches, in which:  
2090 unique CDR3  
13 unique J



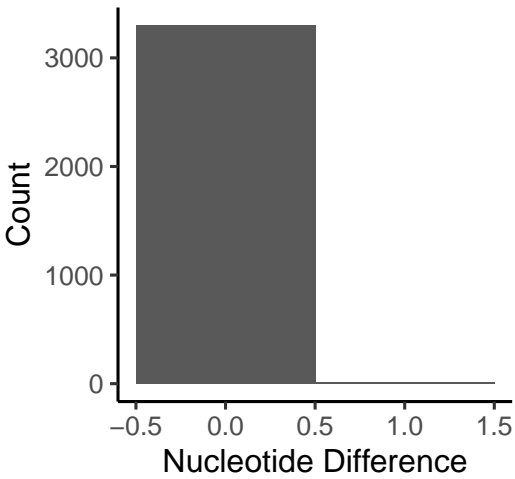
TRBV7-8\*ap01

877 sequences assigned  
877 (100%) exact matches, in which:  
876 unique CDR3  
12 unique J



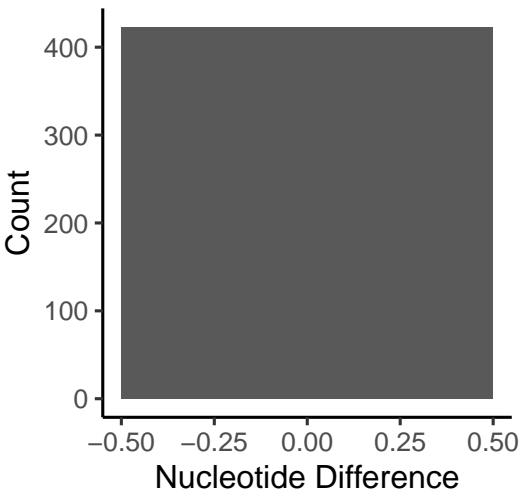
TRBV29-1\*ap01

3311 sequences assigned  
3299 (99.6%) exact matches, in which:  
3294 unique CDR3  
13 unique J



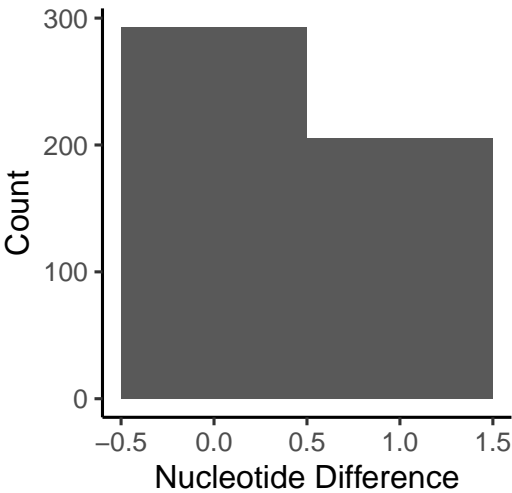
TRBV7-7\*ap01

423 sequences assigned  
423 (100%) exact matches, in which:  
422 unique CDR3  
13 unique J



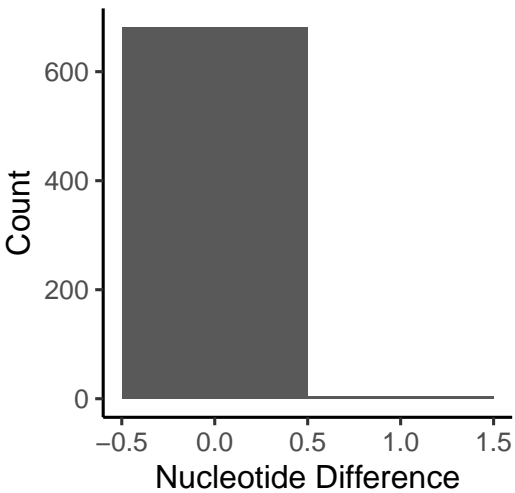
TRBV7-8\*ap03

498 sequences assigned  
293 (58.8%) exact matches, in which:  
293 unique CDR3  
12 unique J



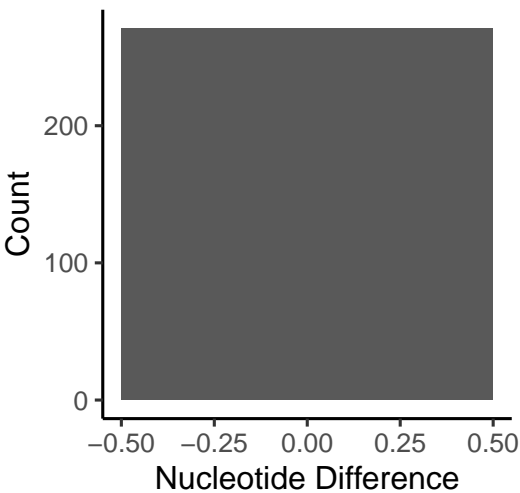
TRBV29-1\*ap02

686 sequences assigned  
682 (99.4%) exact matches, in which:  
682 unique CDR3  
13 unique J



TRBV7-7\*ap01\_C307A\_(

271 sequences assigned  
271 (100%) exact matches, in which:  
271 unique CDR3  
12 unique J



TRBV7-9\*ap01

8853 sequences assigned  
8837 (99.8%) exact matches, in which:  
8835 unique CDR3  
13 unique J

