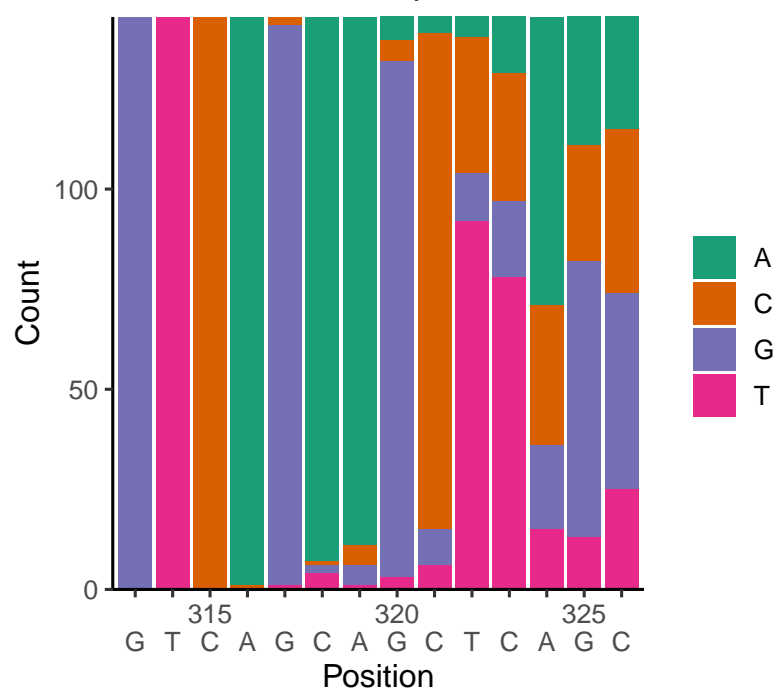
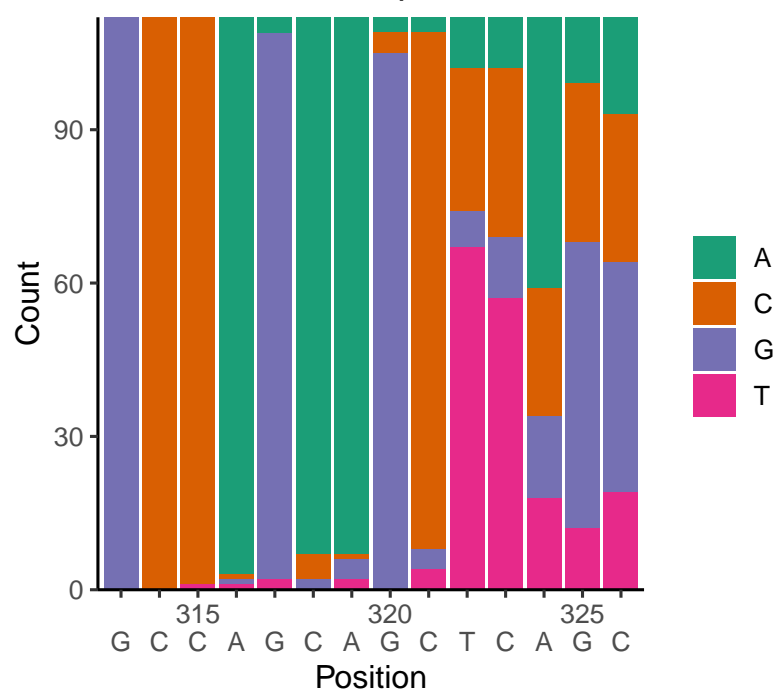


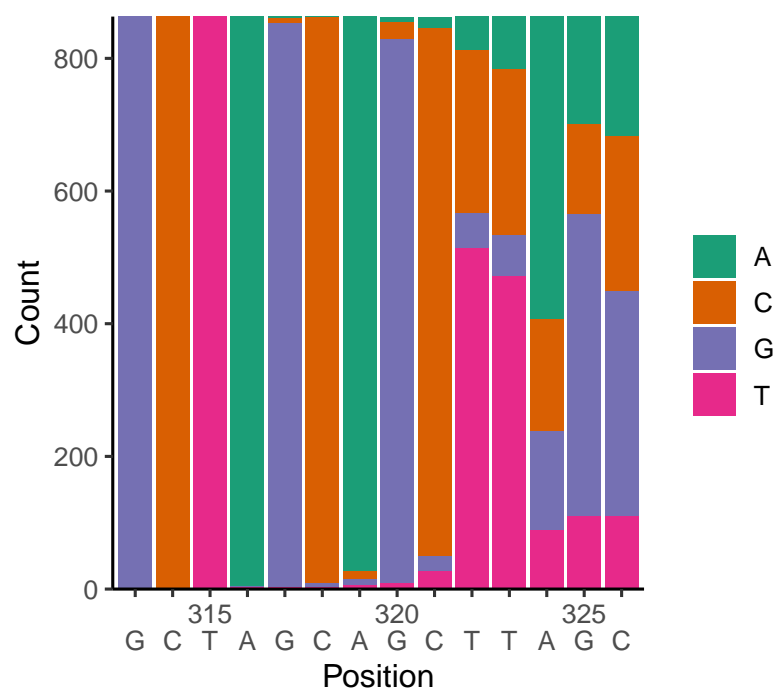
Gene TRBV7-1\*ap01\_G291C\_T296C\_C314T



Gene TRBV7-1\*ap01\_G291C\_T296C



Gene TRBV7-7\*ap01\_C315T



Gene TRBV7-1\*ap01\_G291C\_T296C\_C314T



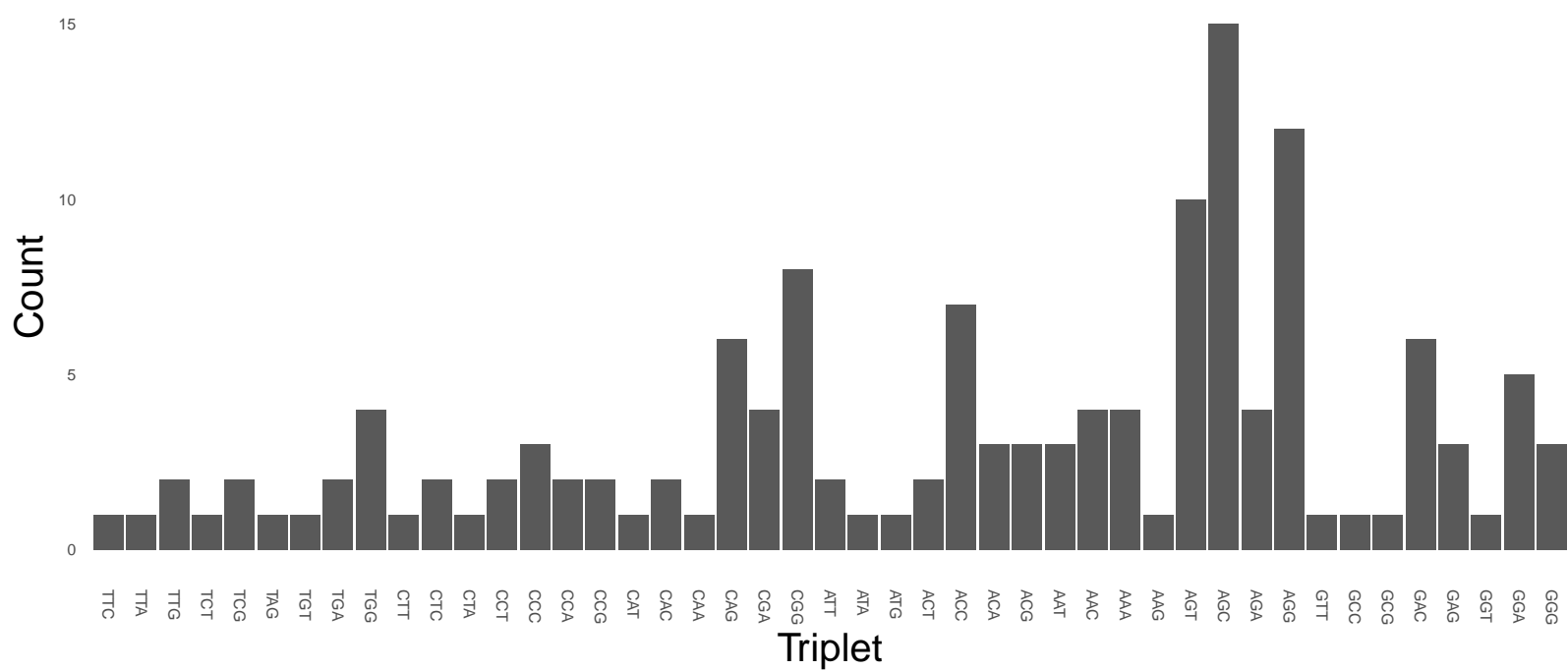
Gene TRBV7-1\*ap01\_G291C\_T296C



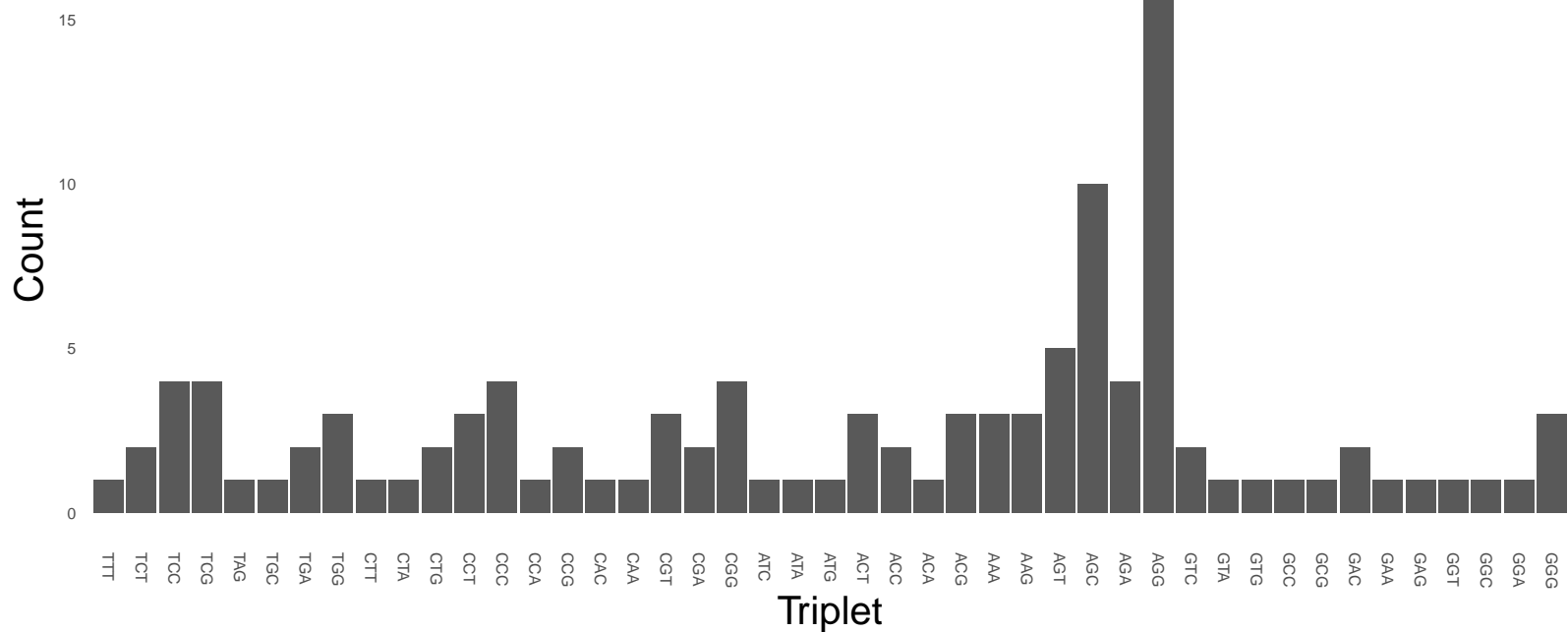
Gene TRBV7-7\*ap01\_C315T



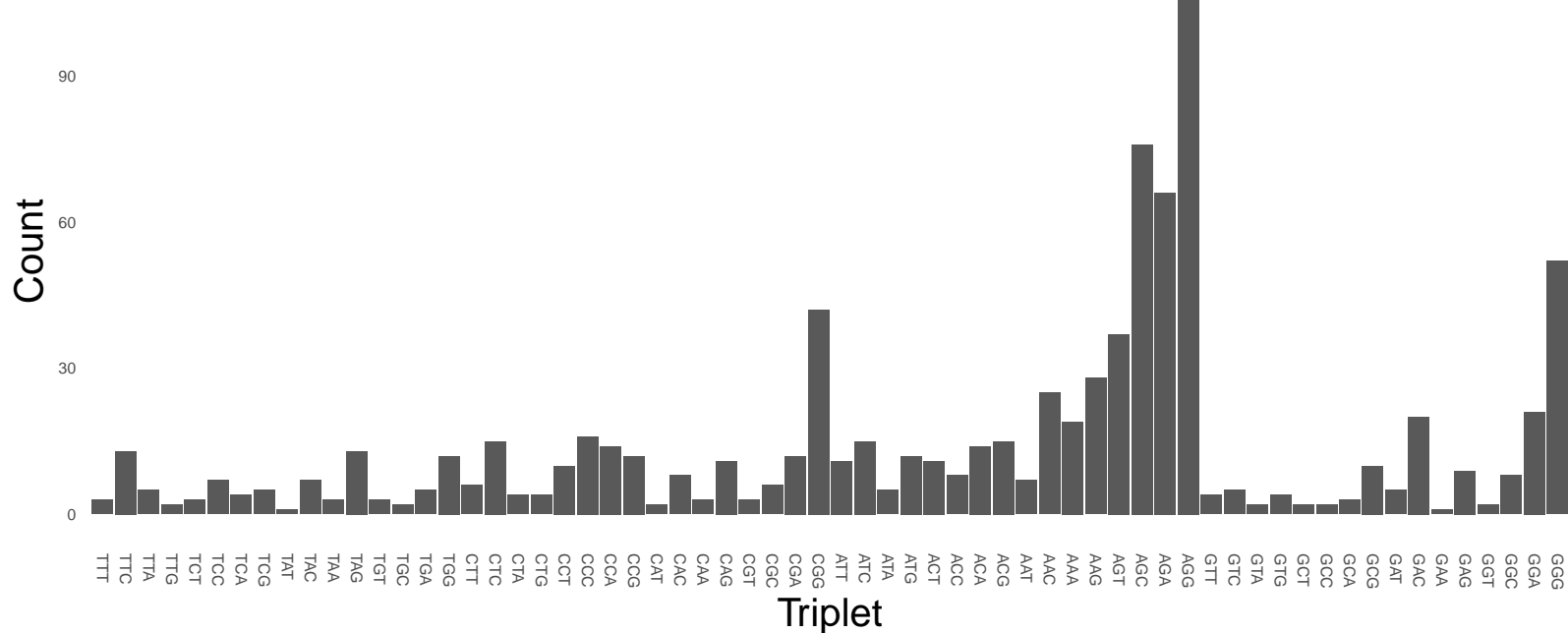
TRBV7-1\*ap01\_G291C\_T296C\_C314T- Final 3 nucleotides as a triplet



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

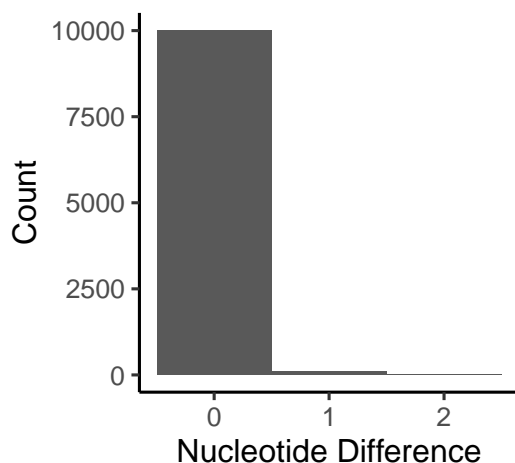


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



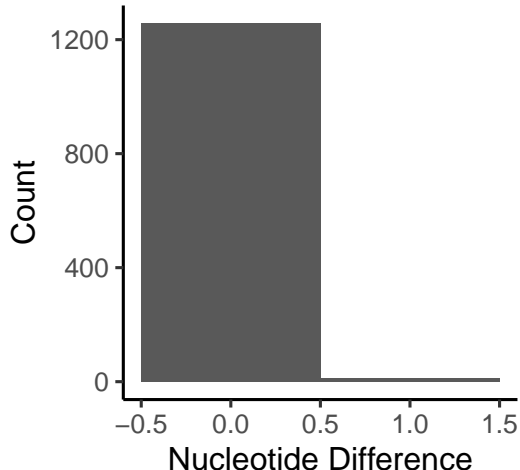
### TRBV20-1\*ap01

10121 sequences assigned  
10013 (98.9%) exact matches, in which:  
9866 unique CDR3  
13 unique J



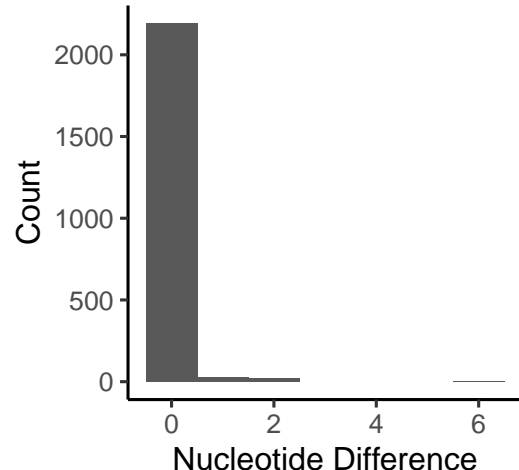
### TRBV10-2\*ap01

1269 sequences assigned  
1257 (99.1%) exact matches, in which:  
1238 unique CDR3  
13 unique J



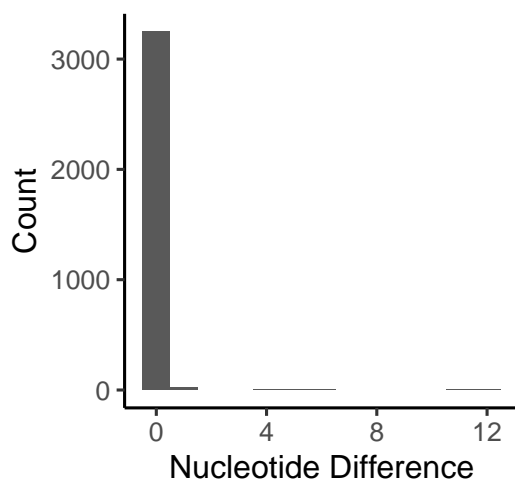
### TRBV13\*ap01

2246 sequences assigned  
2192 (97.6%) exact matches, in which:  
2143 unique CDR3  
13 unique J



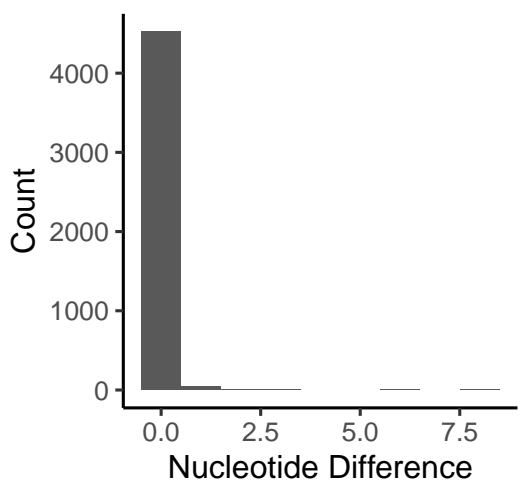
### TRBV10-1\*ap01

3277 sequences assigned  
3248 (99.1%) exact matches, in which:  
3198 unique CDR3  
13 unique J



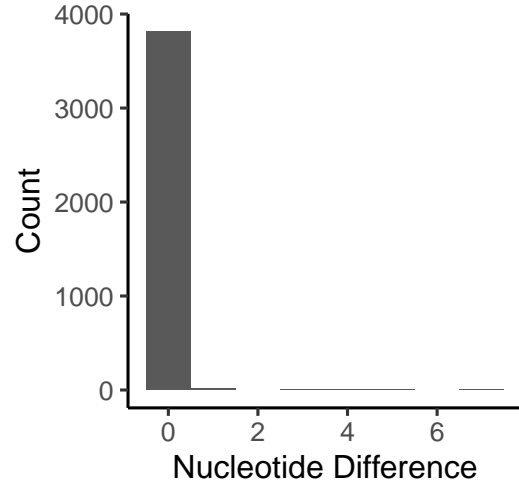
### TRBV10-3\*ap01

4568 sequences assigned  
4523 (99%) exact matches, in which:  
4445 unique CDR3  
13 unique J



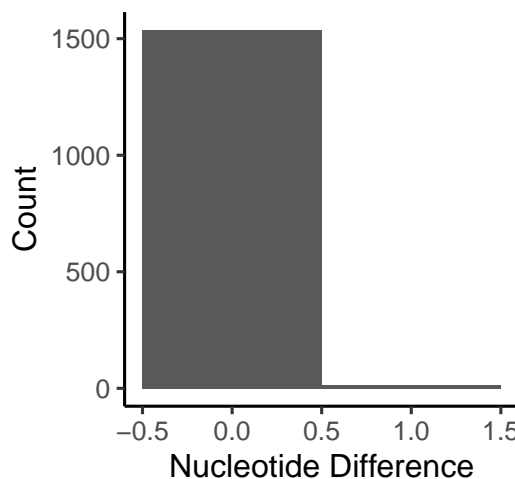
### TRBV14\*ap01

3839 sequences assigned  
3812 (99.3%) exact matches, in which:  
3759 unique CDR3  
13 unique J



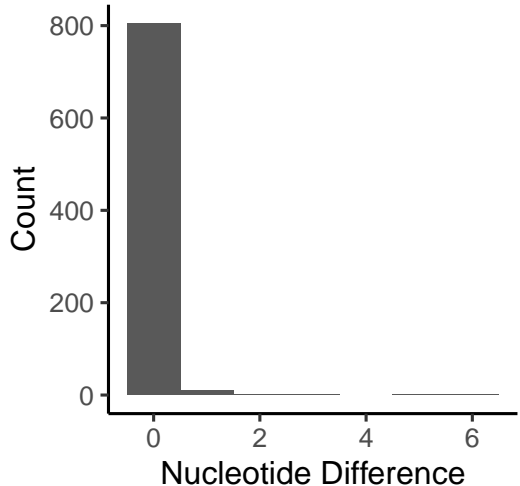
### TRBV20-1\*ap02

1551 sequences assigned  
1537 (99.1%) exact matches, in which:  
1521 unique CDR3  
13 unique J



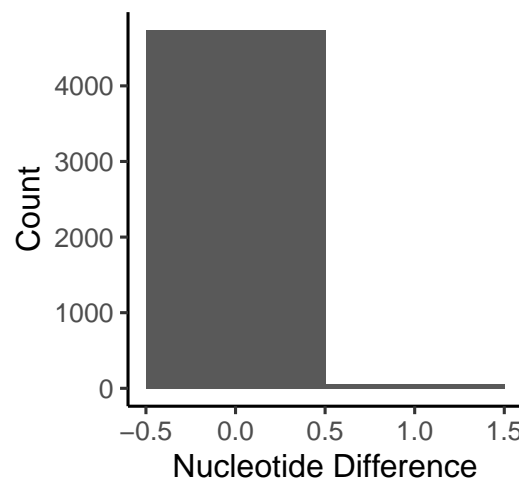
### TRBV1\*ap01

820 sequences assigned  
805 (98.2%) exact matches, in which:  
788 unique CDR3  
13 unique J



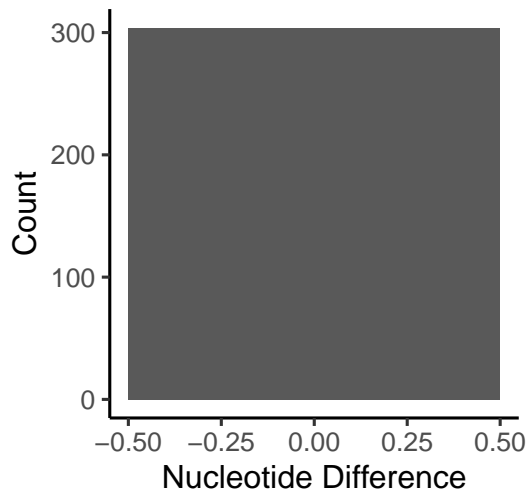
### TRBV15\*ap02

4795 sequences assigned  
4738 (98.8%) exact matches, in which:  
4648 unique CDR3  
13 unique J



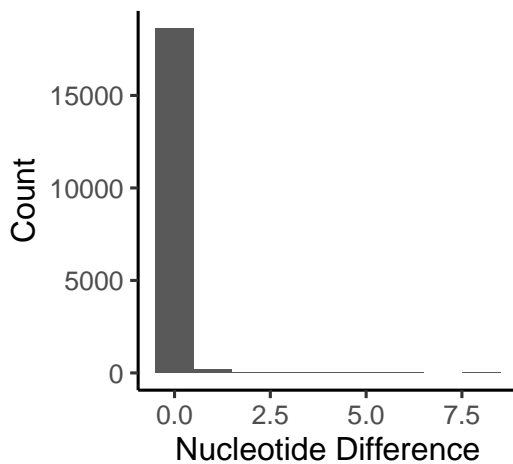
### TRBV16\*ap01

304 sequences assigned  
304 (100%) exact matches, in which:  
300 unique CDR3  
13 unique J



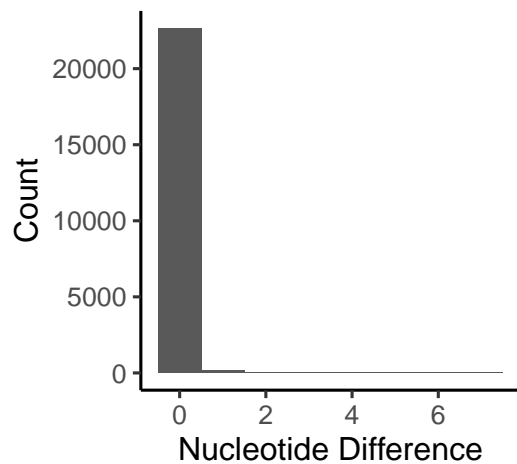
### TRBV19\*ap01

18824 sequences assigned  
18638 (99%) exact matches, in which:  
18497 unique CDR3  
13 unique J



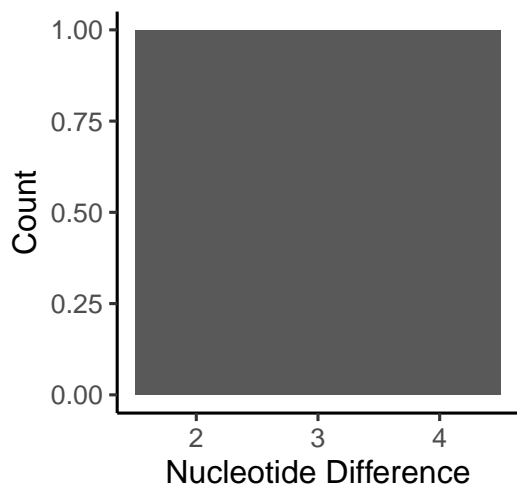
### TRBV28\*ap01

22852 sequences assigned  
22662 (99.2%) exact matches, in which:  
22356 unique CDR3  
13 unique J



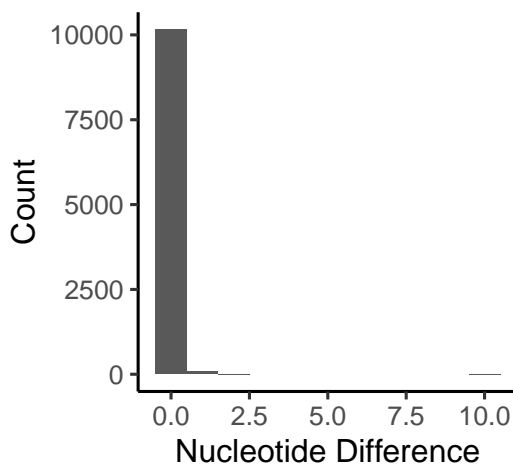
### TRBV17\*ap01

3 sequences assigned  
No exact matches.



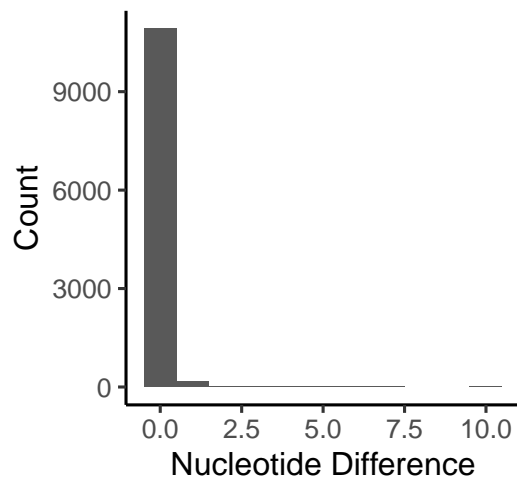
### TRBV2\*ap01

10249 sequences assigned  
10160 (99.1%) exact matches, in which:  
10002 unique CDR3  
13 unique J



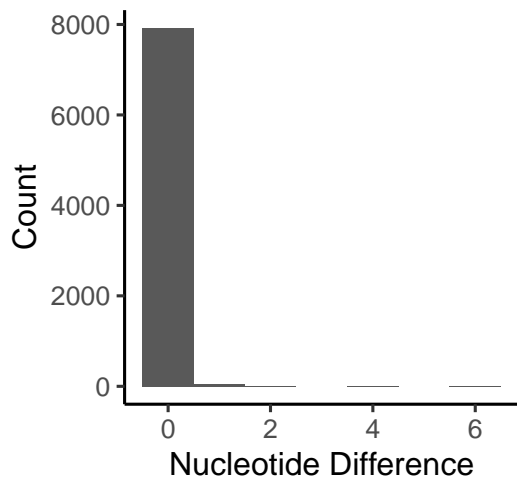
### TRBV30\*ap01

11109 sequences assigned  
10918 (98.3%) exact matches, in which:  
10664 unique CDR3  
13 unique J



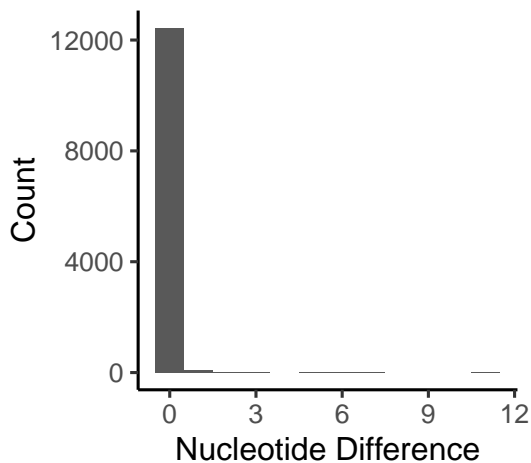
### TRBV18\*ap01

7974 sequences assigned  
7921 (99.3%) exact matches, in which:  
7860 unique CDR3  
13 unique J



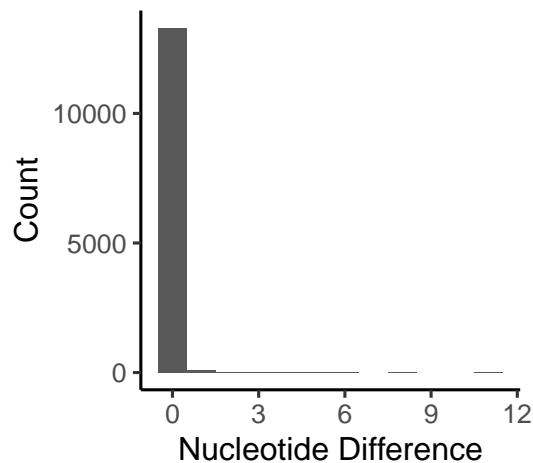
### TRBV27\*ap01

12560 sequences assigned  
12442 (99.1%) exact matches, in which:  
12219 unique CDR3  
13 unique J



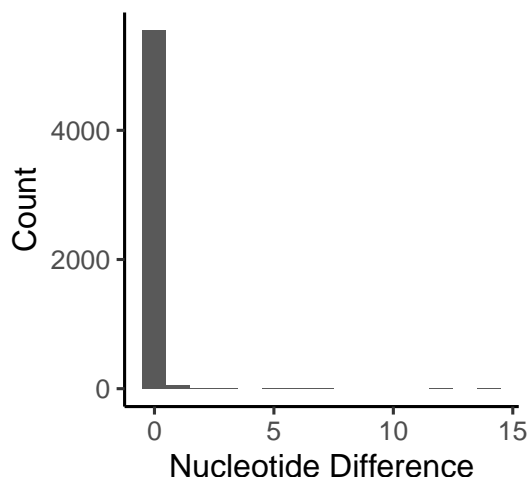
### TRBV9\*ap01

13410 sequences assigned  
13305 (99.2%) exact matches, in which:  
13165 unique CDR3  
13 unique J



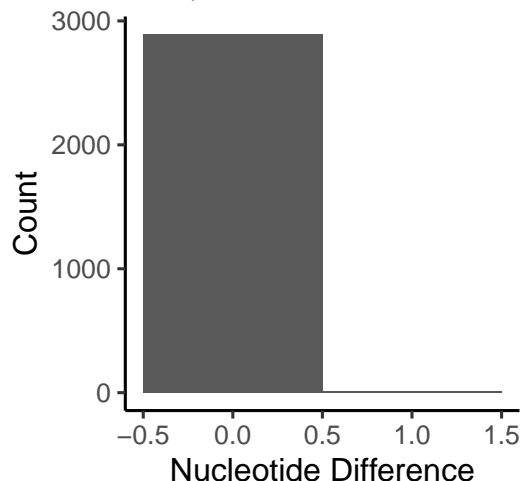
### TRBV21-1\*ap01

5618 sequences assigned  
5547 (98.7%) exact matches, in which:  
5500 unique CDR3  
13 unique J



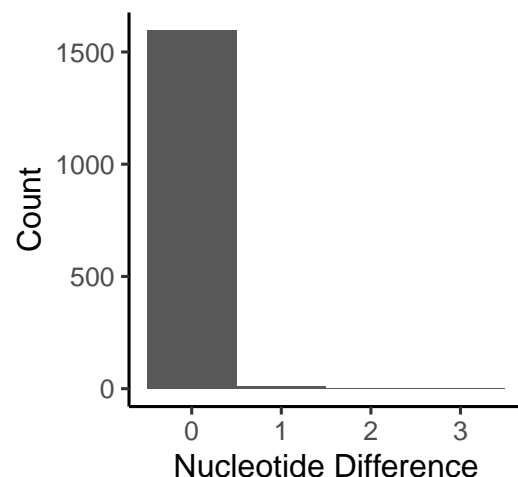
### TRBV11-3\*ap01

2905 sequences assigned  
2891 (99.5%) exact matches, in which:  
2873 unique CDR3  
13 unique J



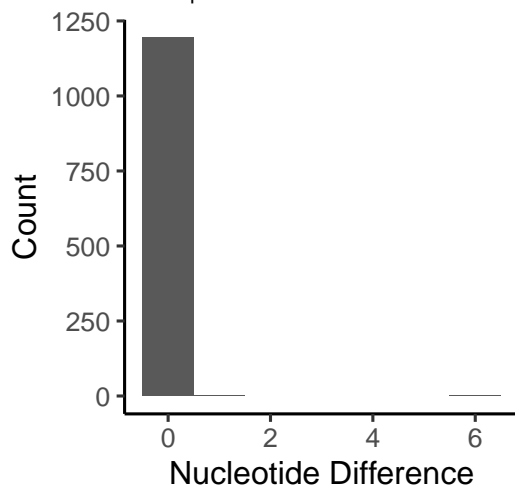
### TRBV12-5\*ap01

1611 sequences assigned  
1596 (99.1%) exact matches, in which:  
1570 unique CDR3  
13 unique J



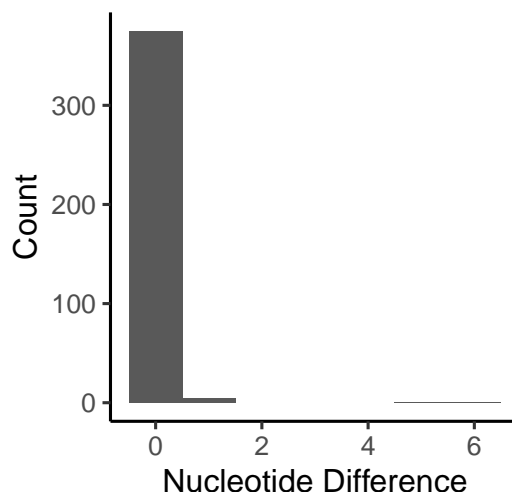
### TRBV11-1\*ap01

1198 sequences assigned  
1194 (99.7%) exact matches, in which:  
1185 unique CDR3  
13 unique J



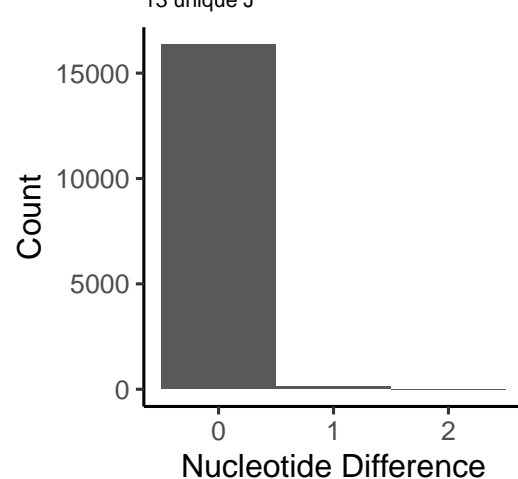
### TRBV12-1\*ap01

382 sequences assigned  
375 (98.2%) exact matches, in which:  
372 unique CDR3  
13 unique J



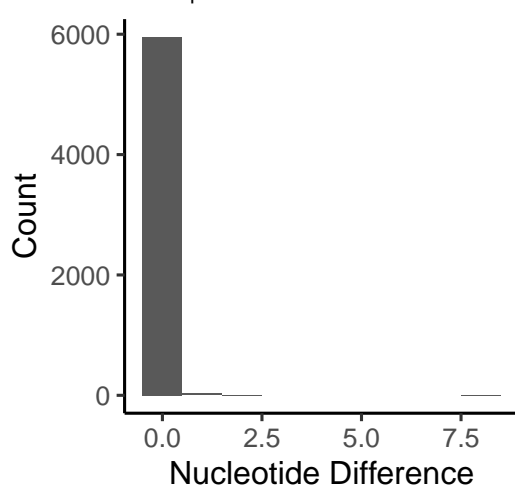
### TRBV12-34\*ap01

16485 sequences assigned  
16360 (99.2%) exact matches, in which:  
16104 unique CDR3  
13 unique J



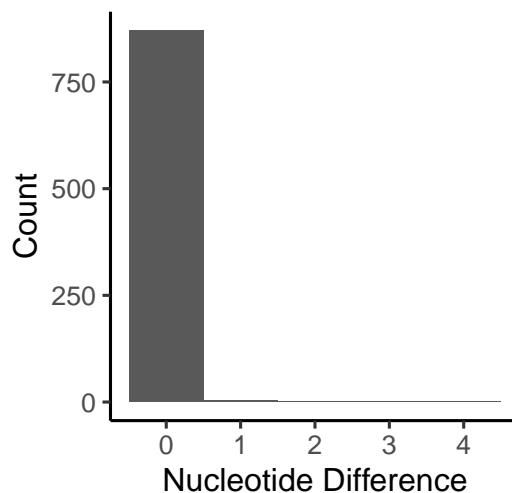
### TRBV11-2\*ap01

5984 sequences assigned  
5953 (99.5%) exact matches, in which:  
5914 unique CDR3  
13 unique J



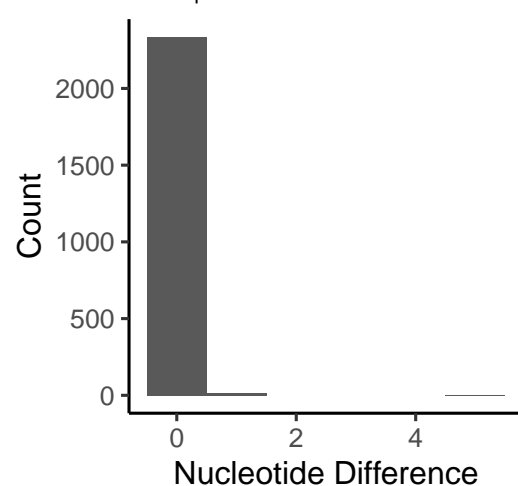
### TRBV12-2\*ap01

879 sequences assigned  
871 (99.1%) exact matches, in which:  
860 unique CDR3  
13 unique J



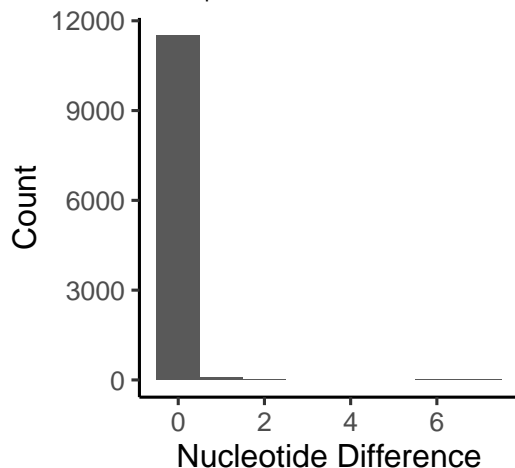
### TRBV23-1\*ap01

2353 sequences assigned  
2335 (99.2%) exact matches, in which:  
2298 unique CDR3  
13 unique J



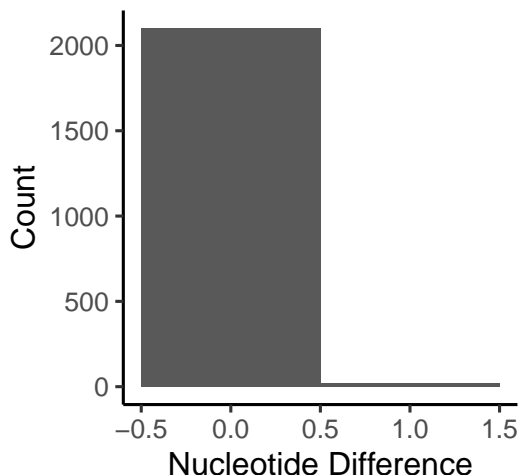
### TRBV3–12\*ap01

11601 sequences assigned  
11520 (99.3%) exact matches, in which:  
11411 unique CDR3  
13 unique J



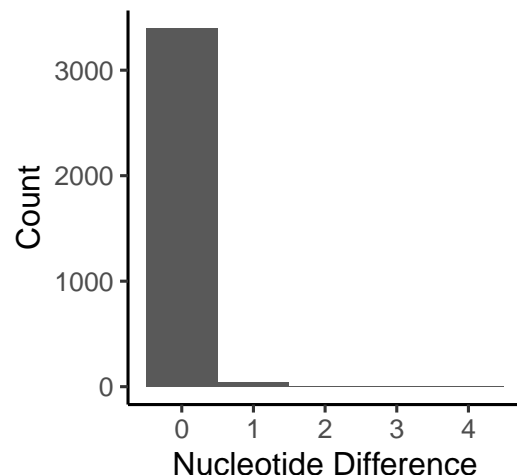
### TRBV4–2\*ap01

2122 sequences assigned  
2100 (99%) exact matches, in which:  
2055 unique CDR3  
13 unique J



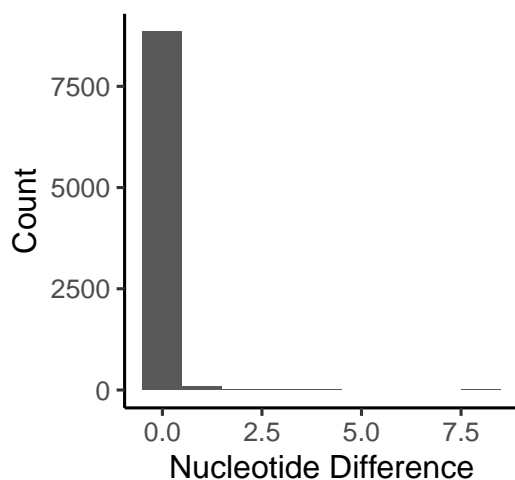
### TRBV25–1\*ap01

3440 sequences assigned  
3396 (98.7%) exact matches, in which:  
3326 unique CDR3  
13 unique J



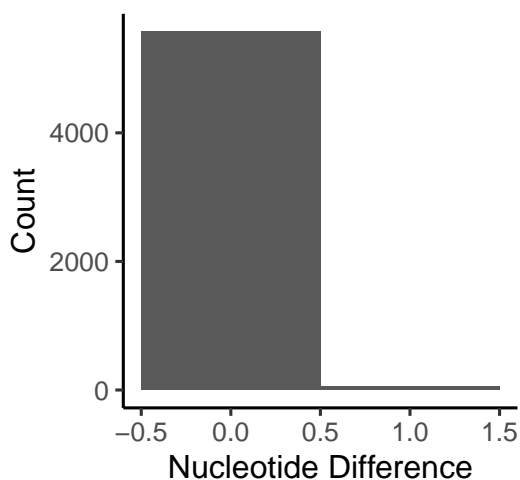
### TRBV24–1\*ap01

8942 sequences assigned  
8849 (99%) exact matches, in which:  
8677 unique CDR3  
13 unique J



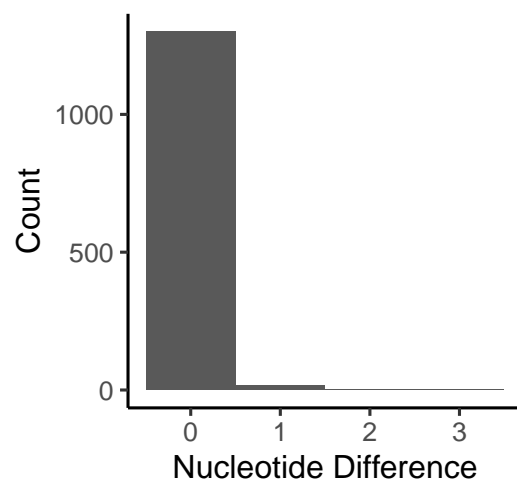
### TRBV4–3\*ap01

5624 sequences assigned  
5573 (99.1%) exact matches, in which:  
5468 unique CDR3  
13 unique J



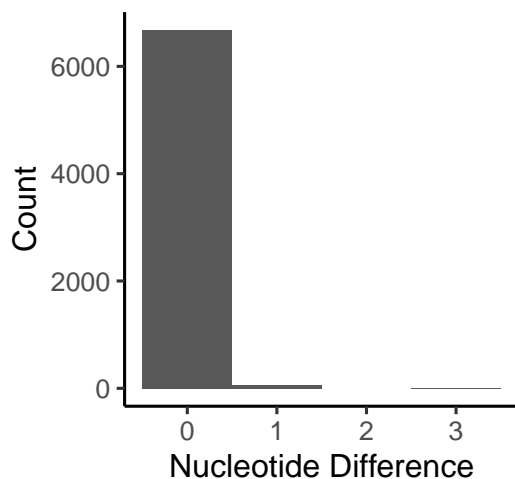
### TRBV5–3\*ap01

1318 sequences assigned  
1300 (98.6%) exact matches, in which:  
1281 unique CDR3  
13 unique J



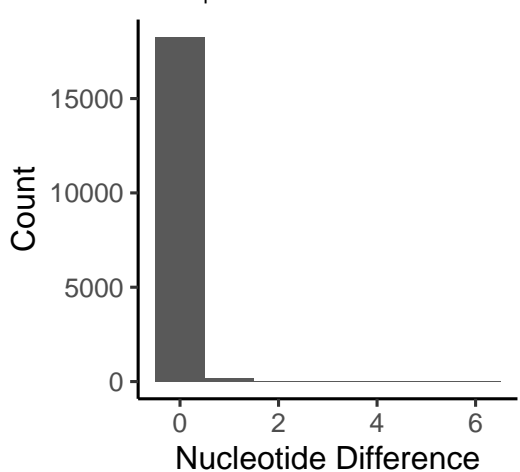
### TRBV4–1\*ap01

6744 sequences assigned  
6677 (99%) exact matches, in which:  
6552 unique CDR3  
13 unique J



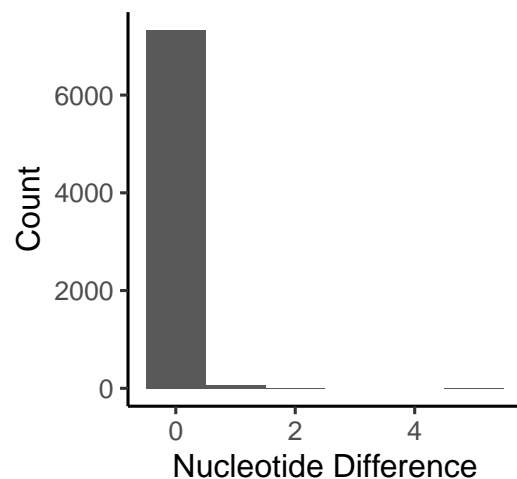
### TRBV5–1\*ap01

18454 sequences assigned  
18274 (99%) exact matches, in which:  
17883 unique CDR3  
13 unique J



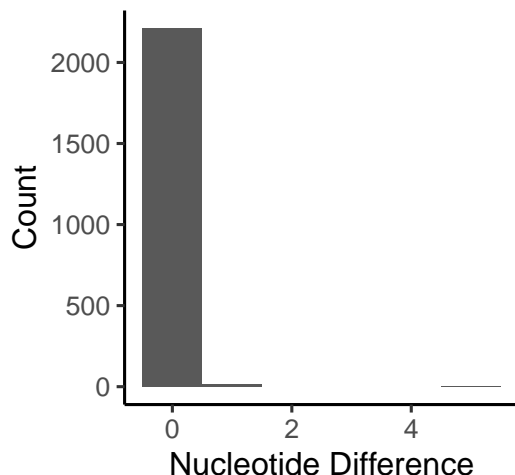
### TRBV5–4\*ap01

7402 sequences assigned  
7331 (99%) exact matches, in which:  
7174 unique CDR3  
13 unique J



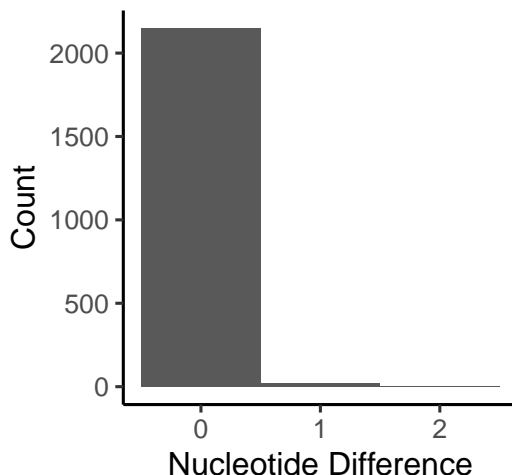
### TRBV5-5\*ap01

2225 sequences assigned  
2210 (99.3%) exact matches, in which:  
2192 unique CDR3  
13 unique J



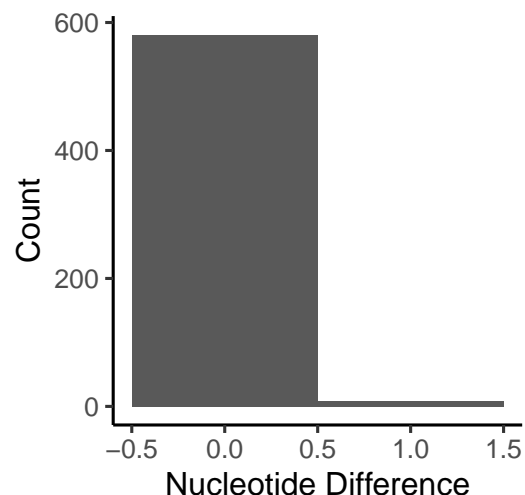
### TRBV5-8\*ap01

2176 sequences assigned  
2148 (98.7%) exact matches, in which:  
2117 unique CDR3  
13 unique J



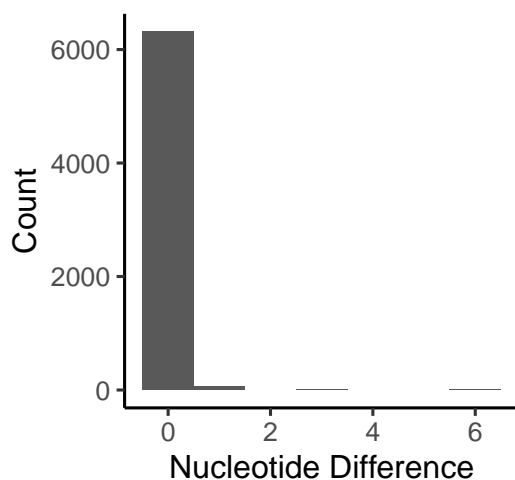
### TRBV6-7\*ap01

589 sequences assigned  
581 (98.6%) exact matches, in which:  
569 unique CDR3  
13 unique J



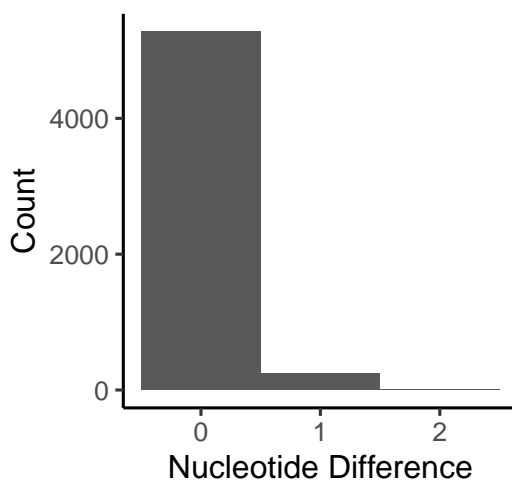
### TRBV5-6\*ap01

6370 sequences assigned  
6314 (99.1%) exact matches, in which:  
6145 unique CDR3  
13 unique J



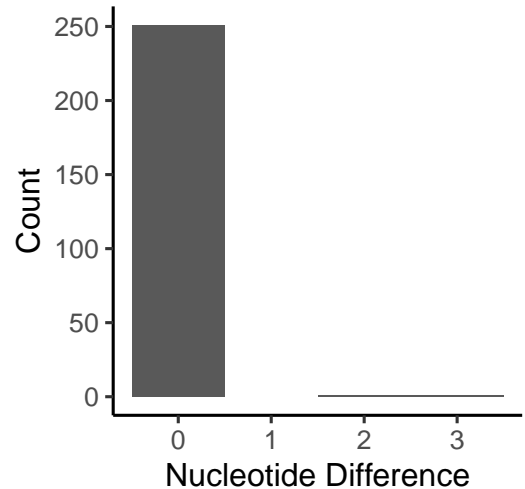
### TRBV6-1\*ap01

5515 sequences assigned  
5276 (95.7%) exact matches, in which:  
5178 unique CDR3  
14 unique J



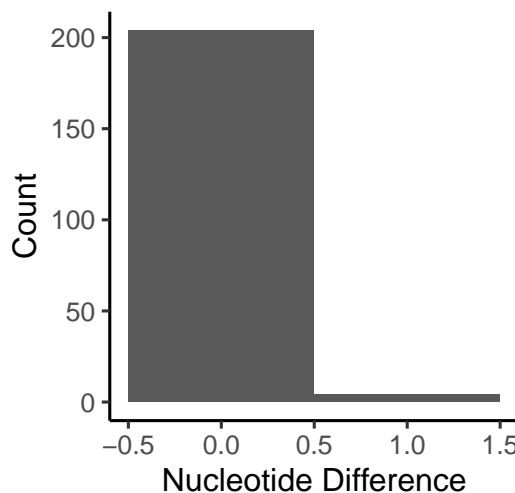
### TRBV6-8\*ap01

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



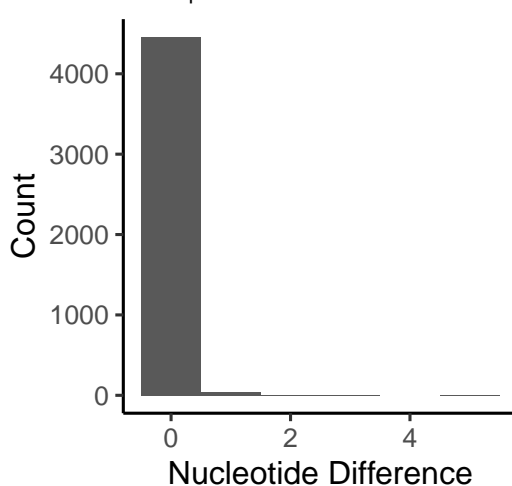
### TRBV5-7\*ap01

208 sequences assigned  
204 (98.1%) exact matches, in which:  
198 unique CDR3  
13 unique J



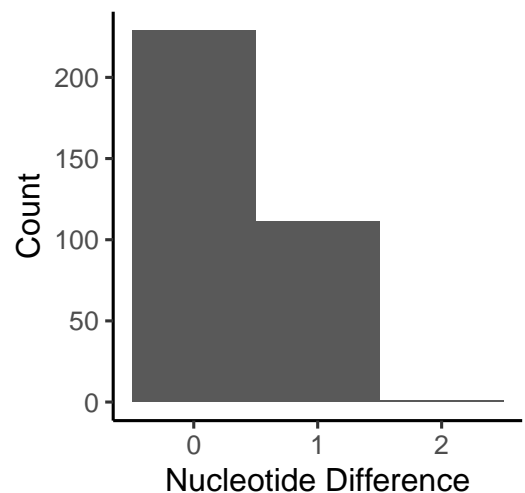
### TRBV6-4\*ap01

4505 sequences assigned  
4457 (98.9%) exact matches, in which:  
4395 unique CDR3  
13 unique J



### TRBV6-9\*ap01

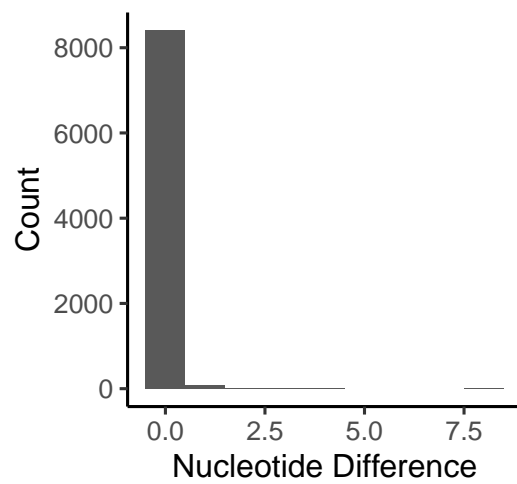
341 sequences assigned  
229 (67.2%) exact matches, in which:  
220 unique CDR3  
13 unique J





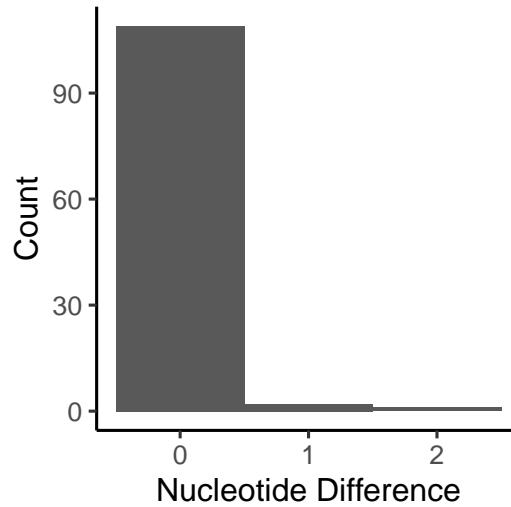
### TRBV6-23\*ap01

8499 sequences assigned  
8406 (98.9%) exact matches, in which:  
8193 unique CDR3  
13 unique J



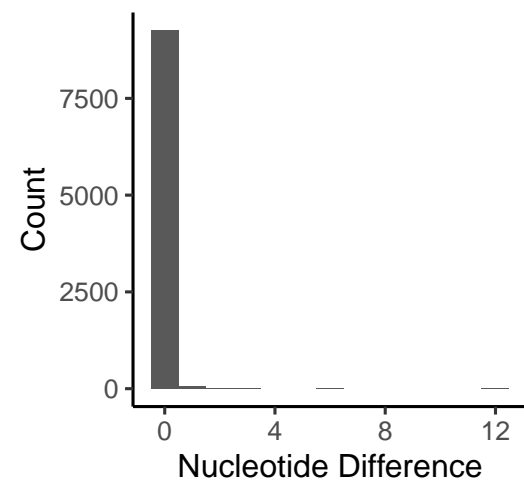
### TRBV7-1\*ap01\_G291C\_T

112 sequences assigned  
109 (97.3%) exact matches, in which:  
109 unique CDR3  
12 unique J



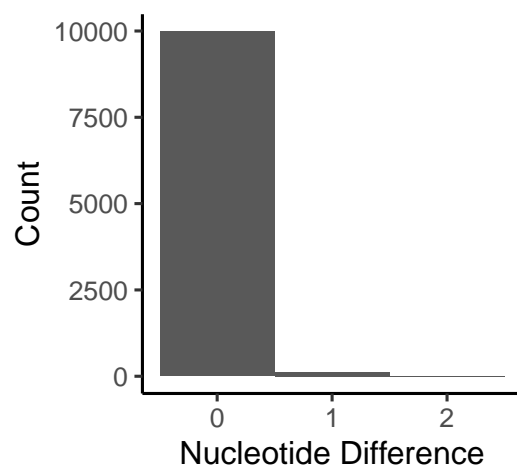
### TRBV7-3\*ap01

9340 sequences assigned  
9256 (99.1%) exact matches, in which:  
9159 unique CDR3  
13 unique J



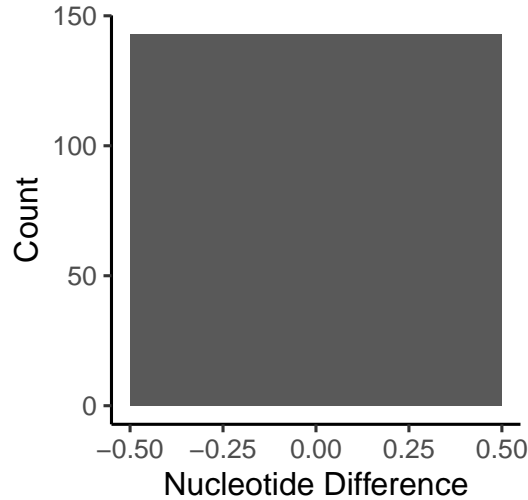
### TRBV6-56\*ap01

10104 sequences assigned  
9986 (98.8%) exact matches, in which:  
9752 unique CDR3  
13 unique J



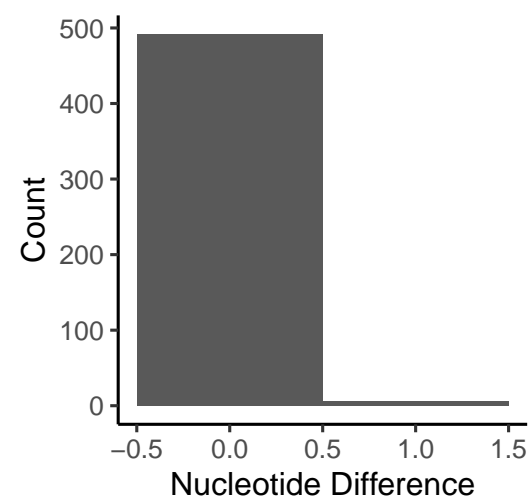
### TRBV7-1\*ap01\_G291C\_

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



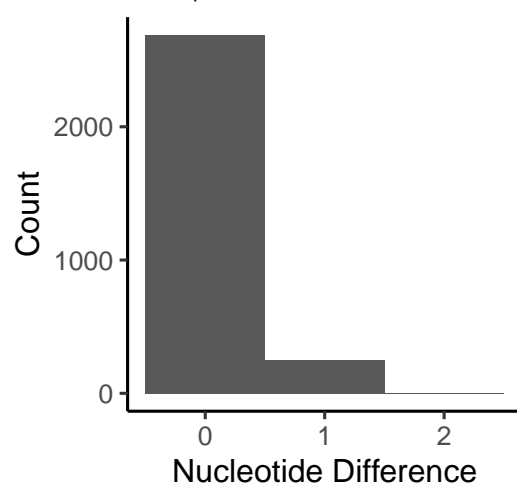
### TRBV7-4\*ap01

498 sequences assigned  
492 (98.8%) exact matches, in which:  
486 unique CDR3  
13 unique J



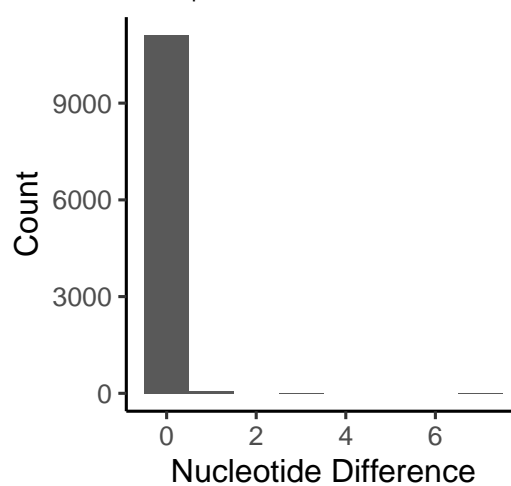
### TRBV6-56\*ap02

2941 sequences assigned  
2688 (91.4%) exact matches, in which:  
2623 unique CDR3  
13 unique J



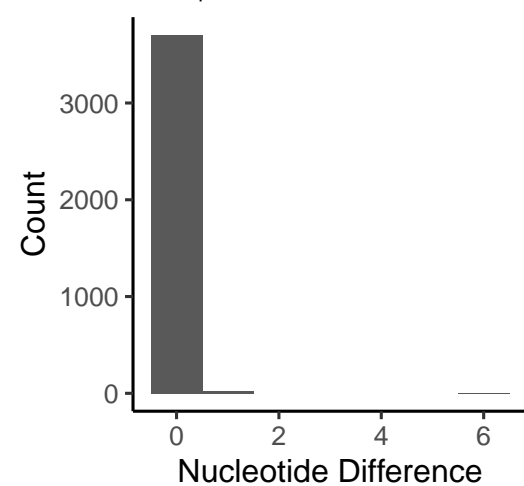
### TRBV7-2\*ap01

11190 sequences assigned  
11112 (99.3%) exact matches, in which:  
10949 unique CDR3  
13 unique J



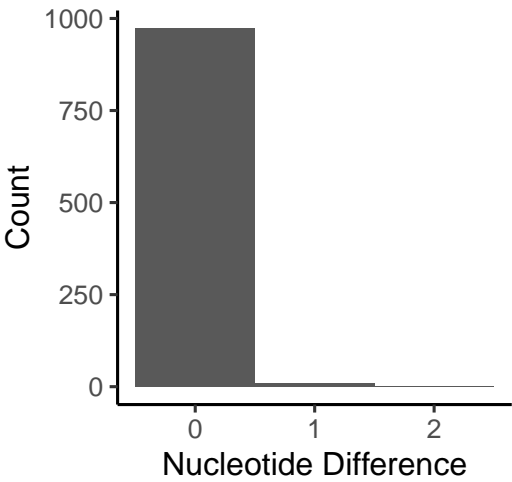
### TRBV7-6\*ap01

3725 sequences assigned  
3702 (99.4%) exact matches, in which:  
3638 unique CDR3  
13 unique J



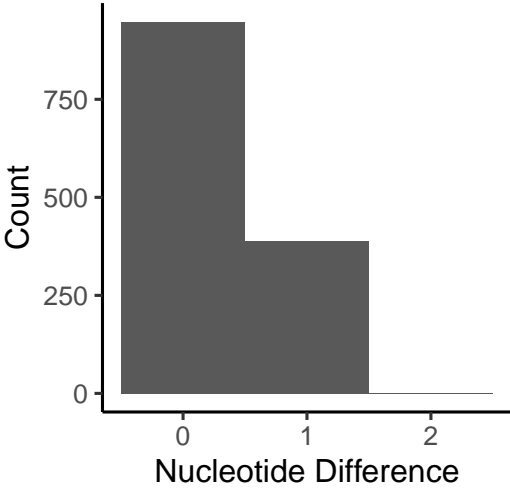
TRBV7-7\*ap01

983 sequences assigned  
973 (99%) exact matches, in which:  
953 unique CDR3  
13 unique J



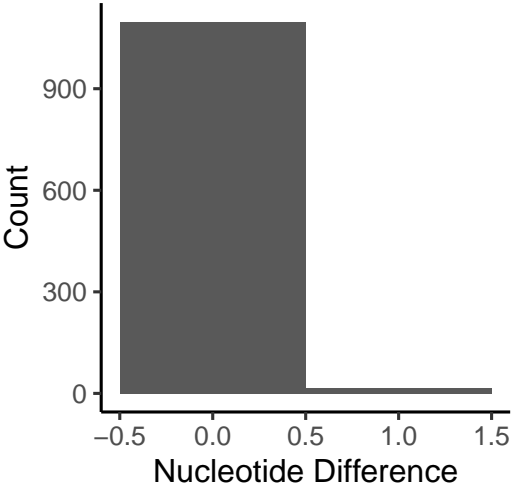
TRBV7-8\*ap03

1338 sequences assigned  
948 (70.9%) exact matches, in which:  
936 unique CDR3  
13 unique J



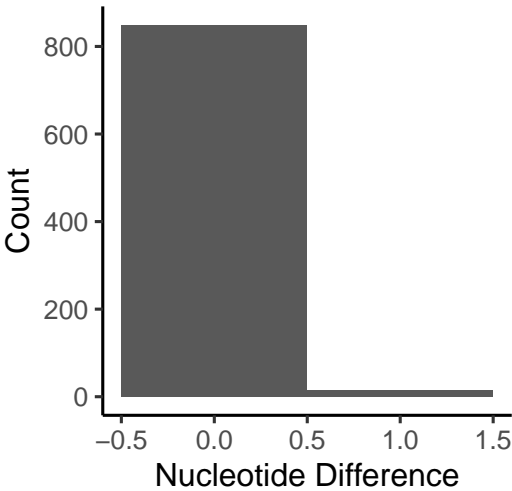
TRBV29-1\*ap02

1115 sequences assigned  
1098 (98.5%) exact matches, in which:  
1062 unique CDR3  
13 unique J



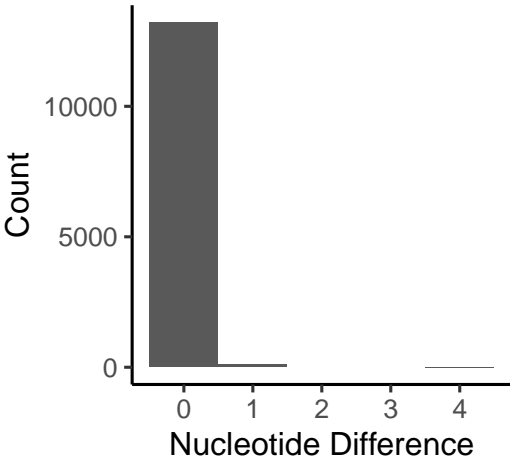
TRBV7-7\*ap01\_C315T

863 sequences assigned  
849 (98.4%) exact matches, in which:  
831 unique CDR3  
13 unique J



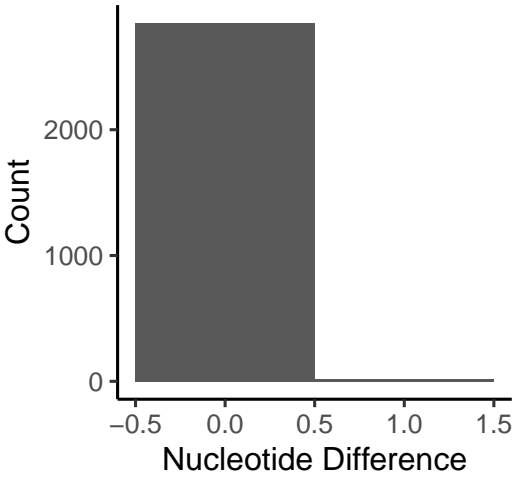
TRBV7-9\*ap01

13312 sequences assigned  
13214 (99.3%) exact matches, in which:  
13031 unique CDR3  
13 unique J



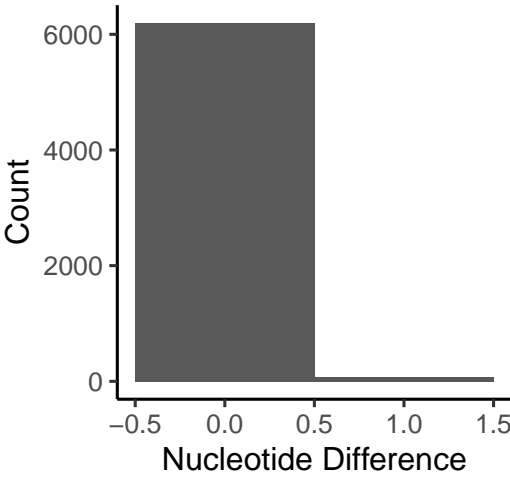
TRBV7-8\*ap01

2868 sequences assigned  
2848 (99.3%) exact matches, in which:  
2809 unique CDR3  
13 unique J

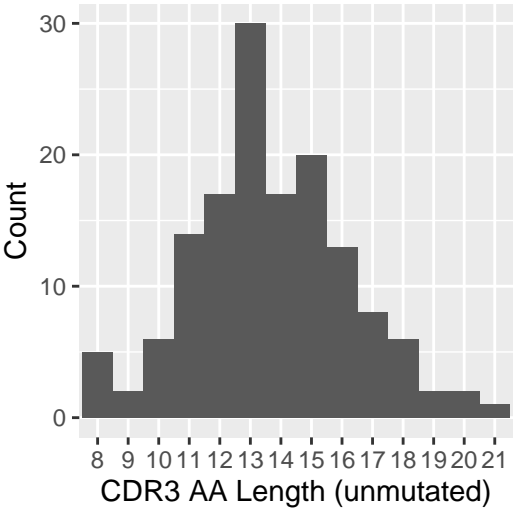


TRBV29-1\*ap01

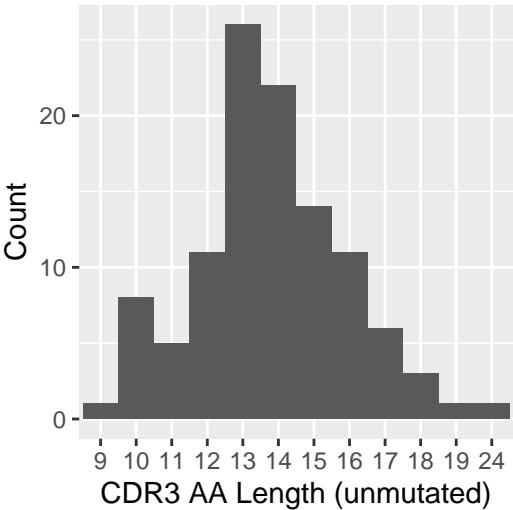
6265 sequences assigned  
6195 (98.9%) exact matches, in which:  
6009 unique CDR3  
13 unique J



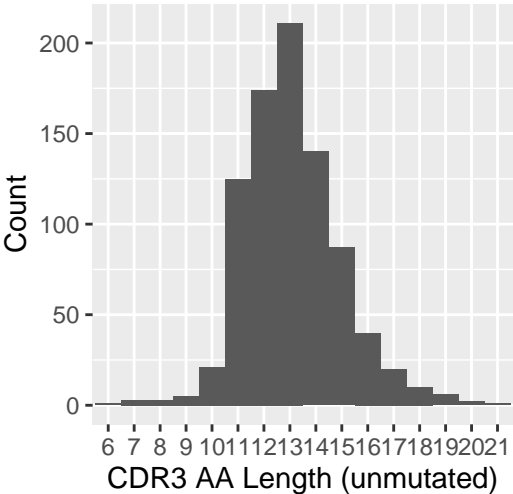
TRBV7-1\*ap01\_G291C\_T296C\_C314T



TRBV7-1\*ap01\_G291C\_T296C



TRBV7-7\*ap01\_C315T





[illegible]