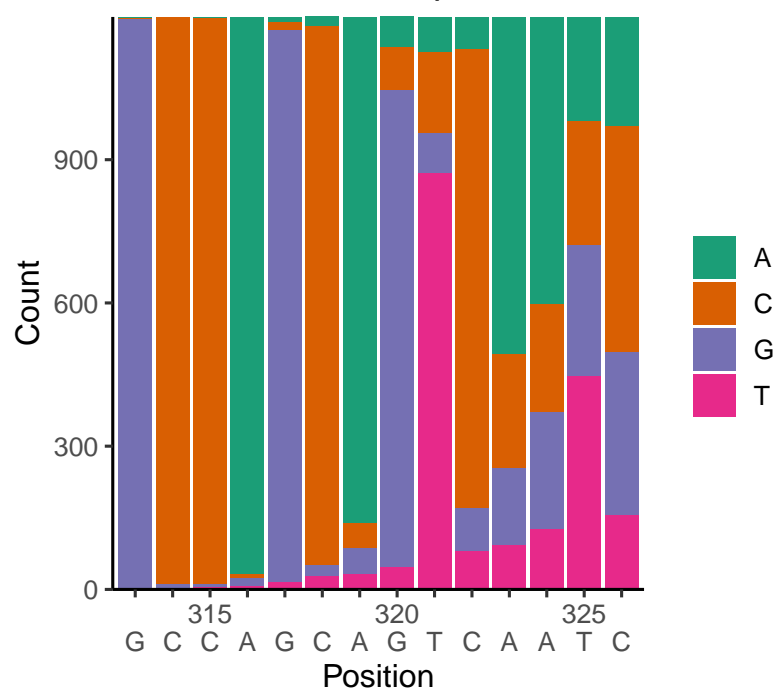


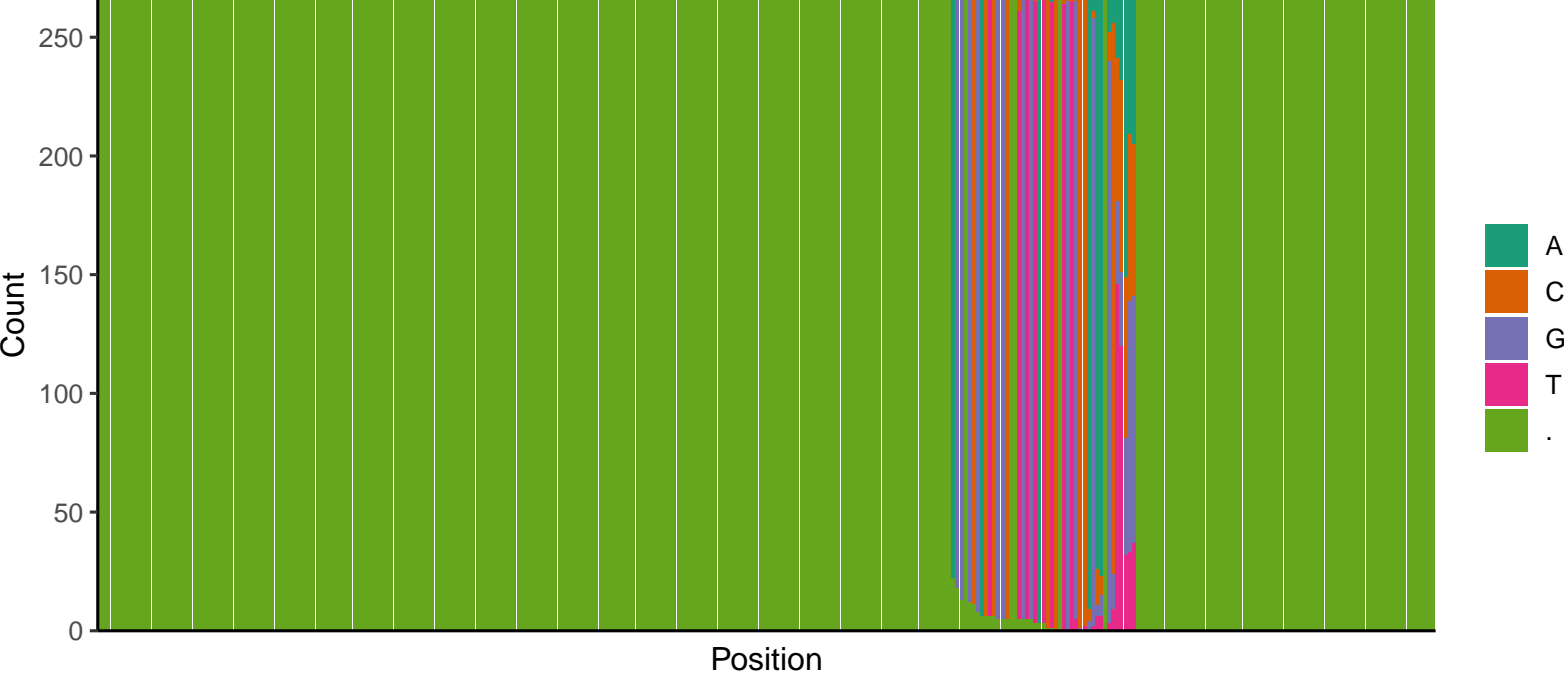
Gene TRBV23-1\*ap01\_T304C



Gene TRBV23-1\*ap01\_T304C



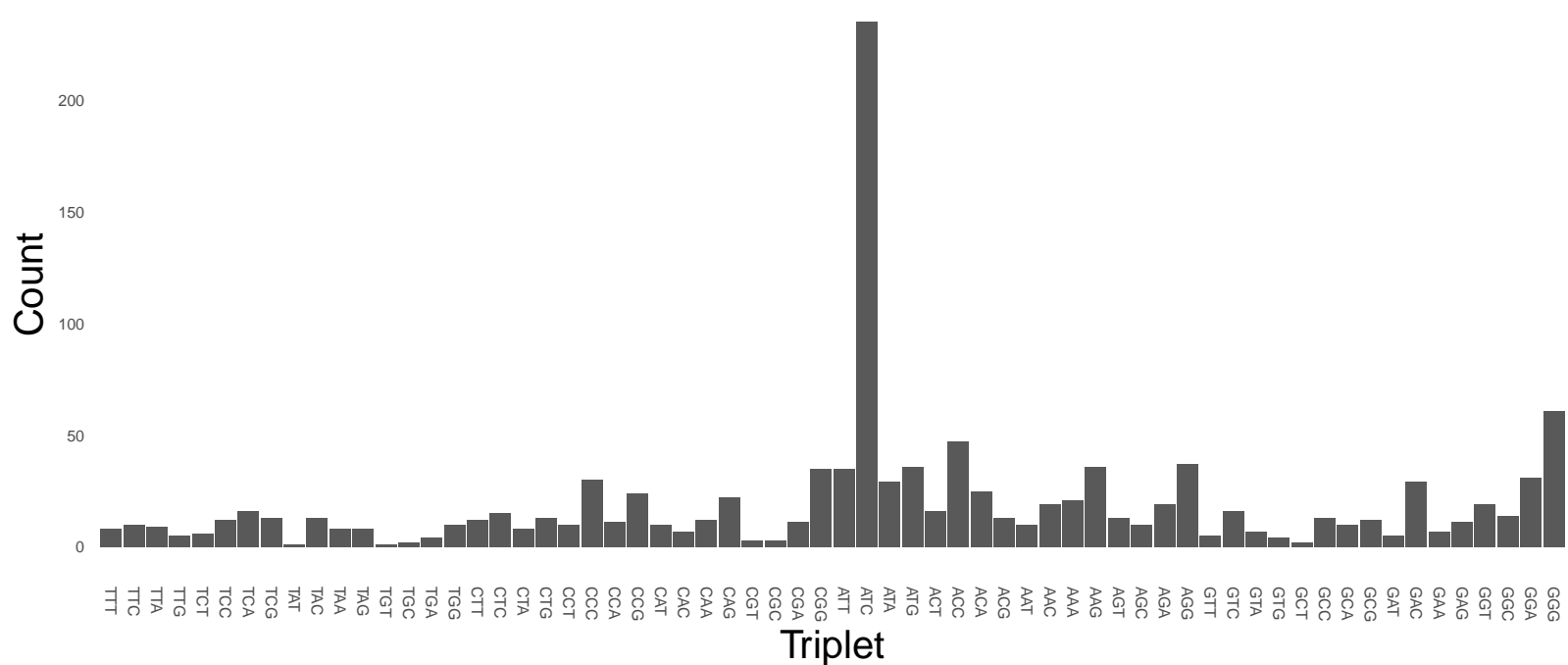
Gene TRBV7-1\*ap01\_G291C\_T296C



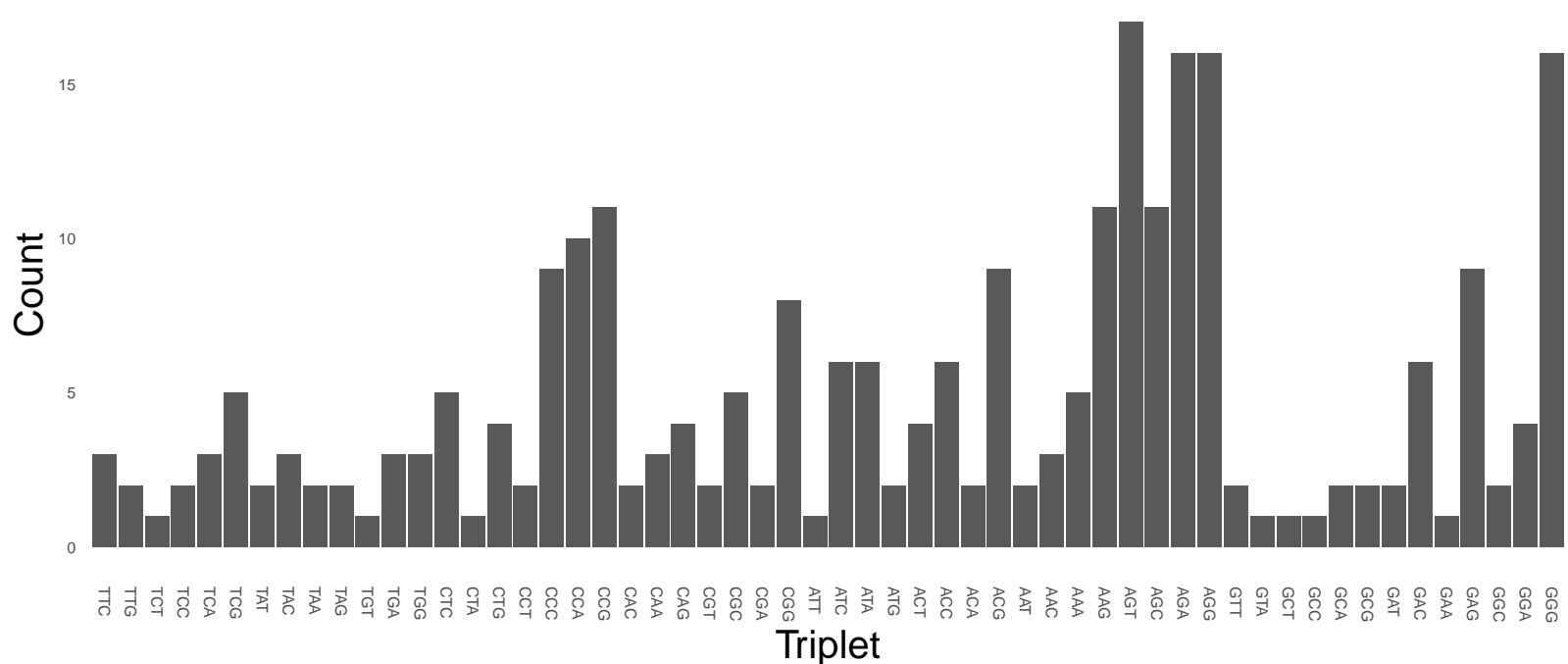
Gene TRBV7-7\*ap01\_C315T



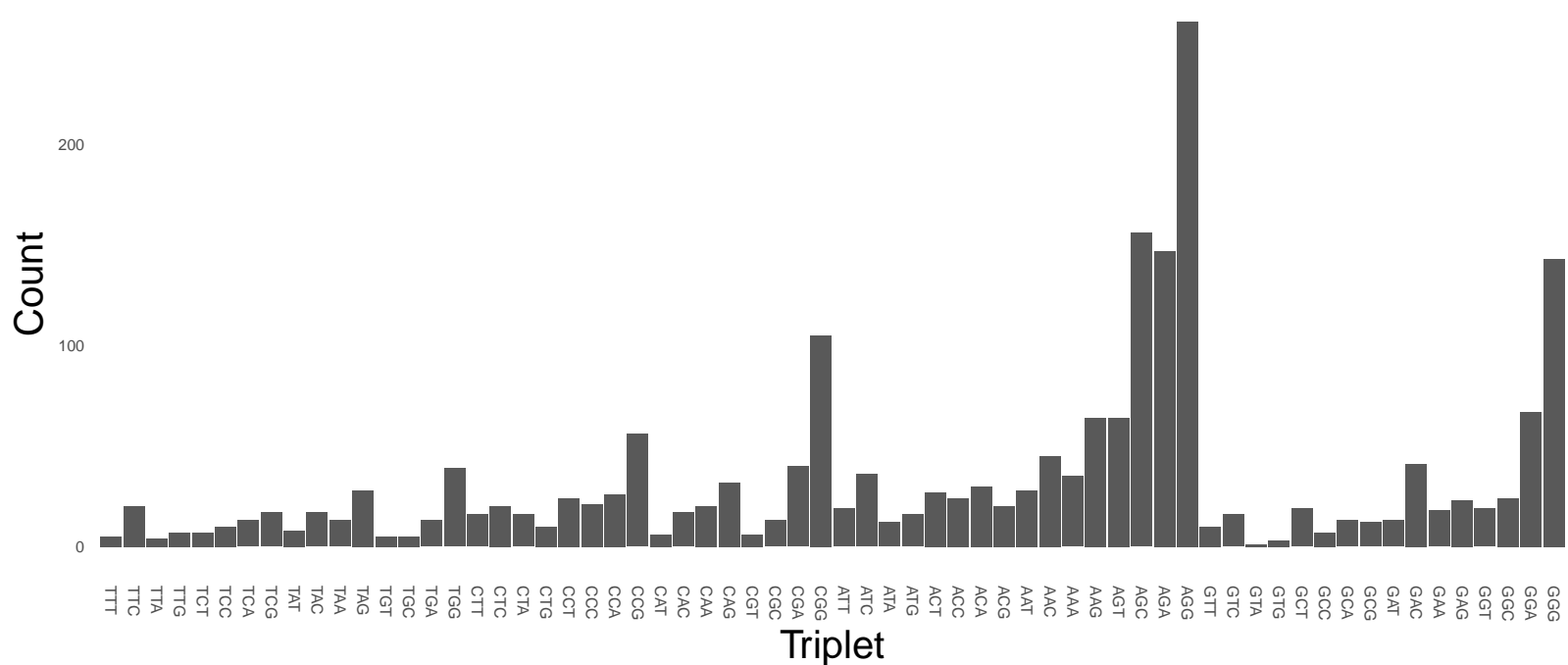
TRBV23-1\*ap01\_T304C- Final 3 nucleotides as a triplet



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

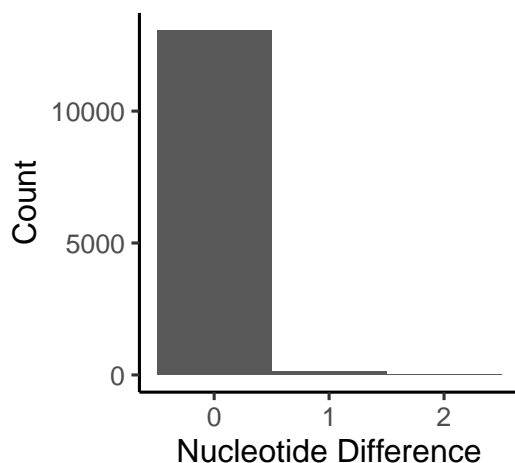


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



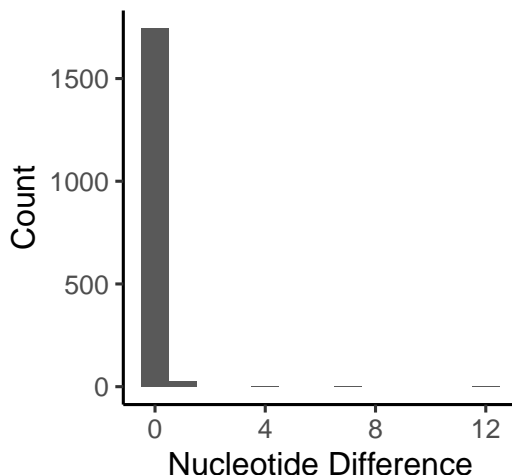
### TRBV20-1\*ap01

13192 sequences assigned  
13069 (99.1%) exact matches, in which:  
12876 unique CDR3  
13 unique J



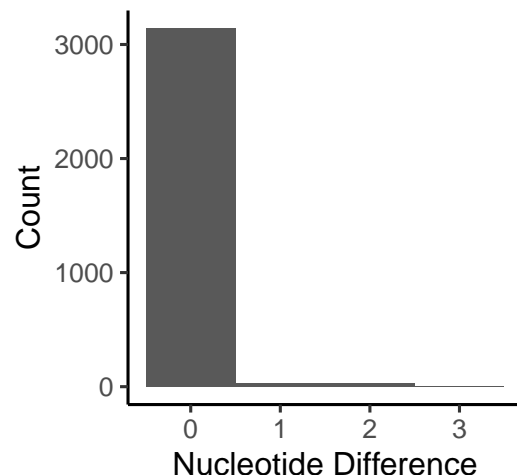
### TRBV10-2\*ap01

1772 sequences assigned  
1744 (98.4%) exact matches, in which:  
1707 unique CDR3  
13 unique J



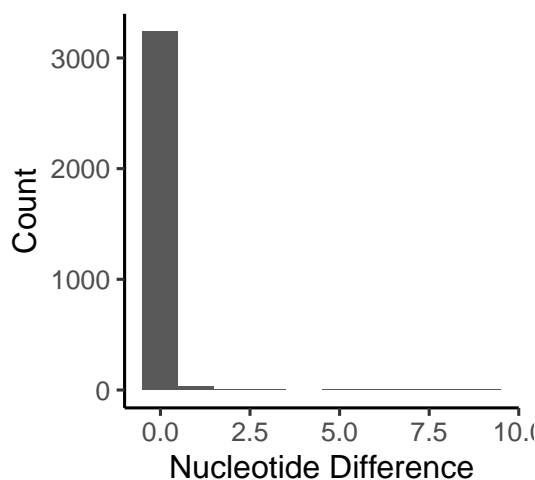
### TRBV13\*ap01

3201 sequences assigned  
3141 (98.1%) exact matches, in which:  
3066 unique CDR3  
13 unique J



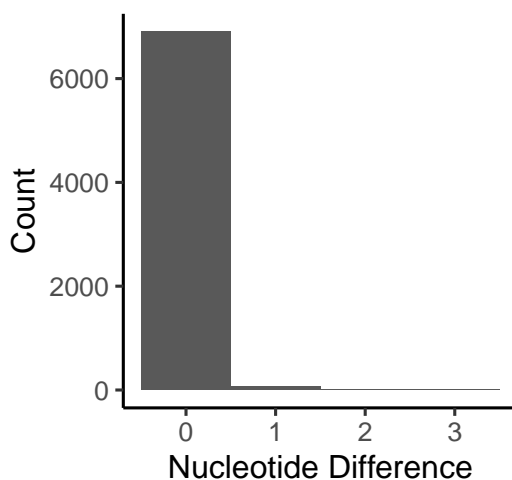
### TRBV10-1\*ap01

3274 sequences assigned  
3237 (98.9%) exact matches, in which:  
3164 unique CDR3  
13 unique J



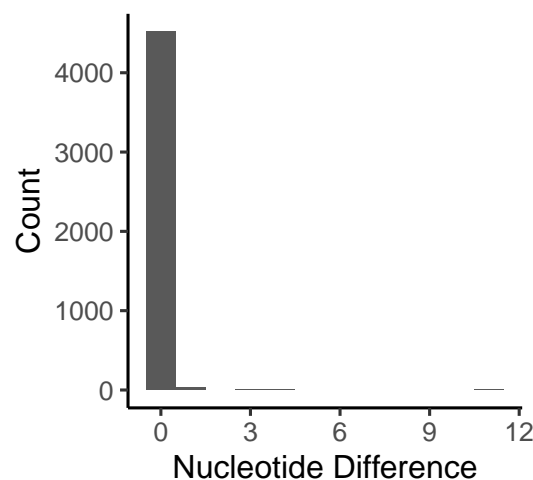
### TRBV10-3\*ap01

6977 sequences assigned  
6903 (98.9%) exact matches, in which:  
6763 unique CDR3  
13 unique J



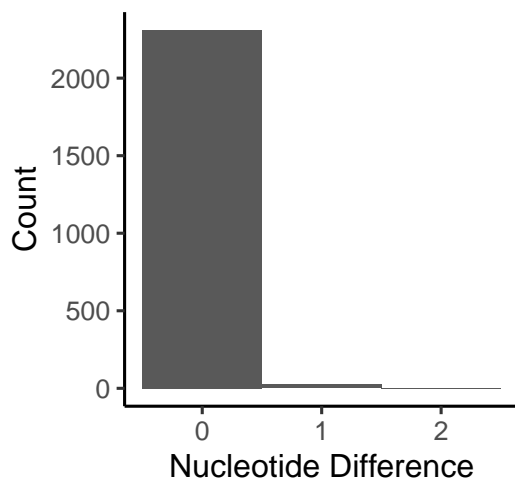
### TRBV14\*ap01

4552 sequences assigned  
4517 (99.2%) exact matches, in which:  
4461 unique CDR3  
13 unique J



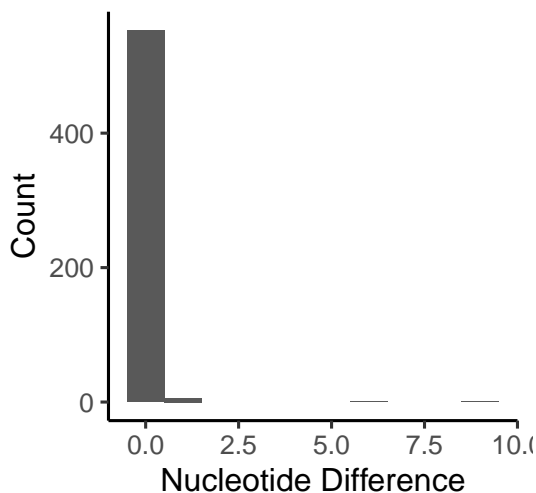
### TRBV20-1\*ap02

2335 sequences assigned  
2310 (98.9%) exact matches, in which:  
2276 unique CDR3  
13 unique J



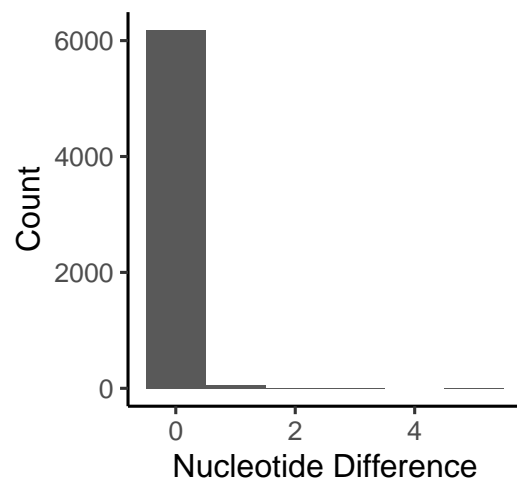
### TRBV1\*ap01

561 sequences assigned  
553 (98.6%) exact matches, in which:  
551 unique CDR3  
13 unique J



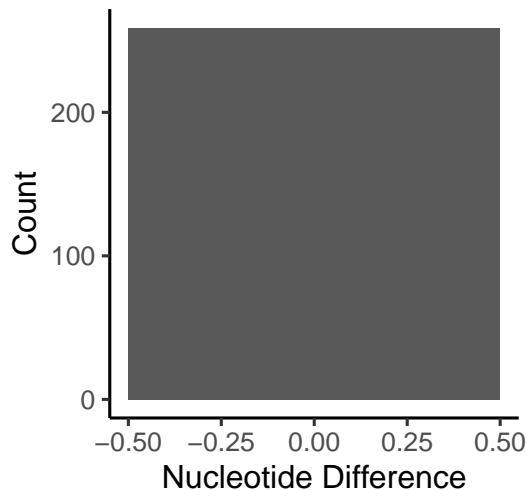
### TRBV15\*ap02

6244 sequences assigned  
6182 (99%) exact matches, in which:  
6044 unique CDR3  
13 unique J



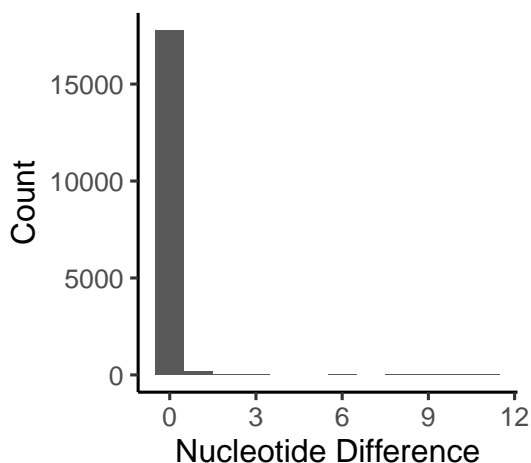
### TRBV16\*ap01

259 sequences assigned  
259 (100%) exact matches, in which:  
256 unique CDR3  
13 unique J



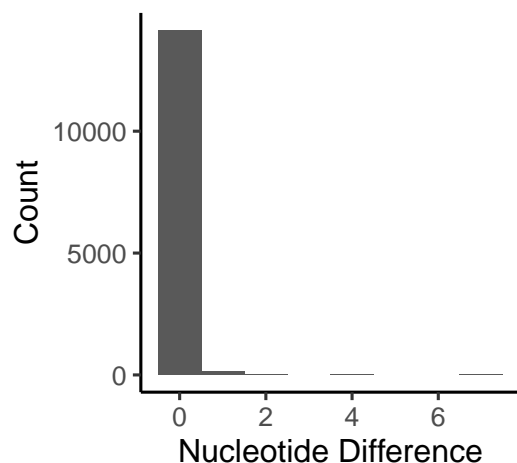
### TRBV19\*ap01

17952 sequences assigned  
17781 (99%) exact matches, in which:  
17618 unique CDR3  
13 unique J



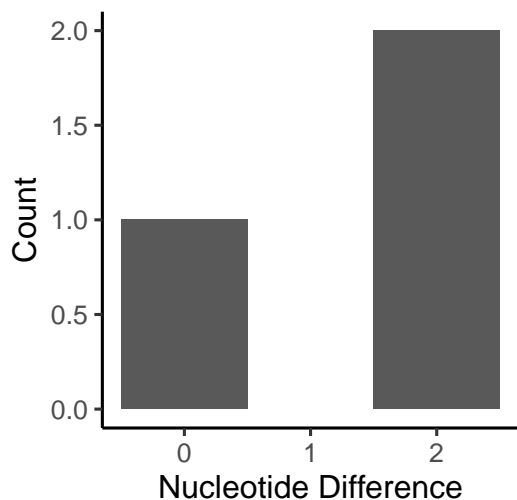
### TRBV28\*ap01

14305 sequences assigned  
14146 (98.9%) exact matches, in which:  
13867 unique CDR3  
13 unique J



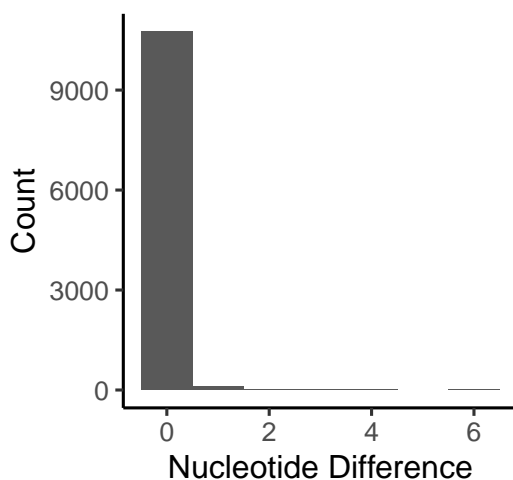
### TRBV17\*ap01

3 sequences assigned  
1 (33.3%) exact matches, in which:  
1 unique CDR3  
1 unique J



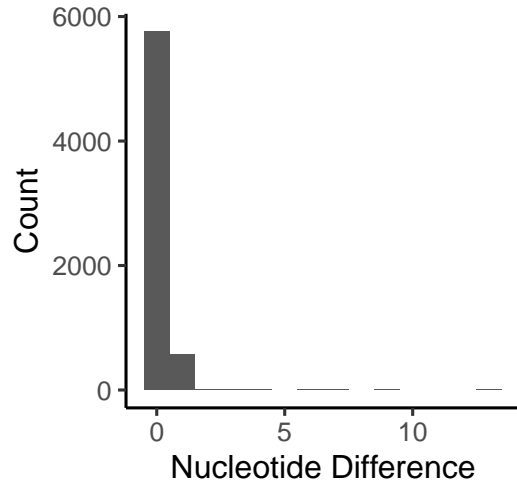
### TRBV2\*ap01

10879 sequences assigned  
10751 (98.8%) exact matches, in which:  
10568 unique CDR3  
13 unique J



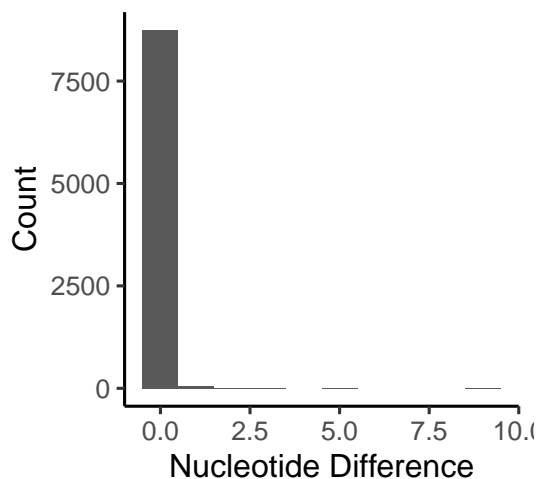
### TRBV30\*ap01

6356 sequences assigned  
5756 (90.6%) exact matches, in which:  
5662 unique CDR3  
13 unique J



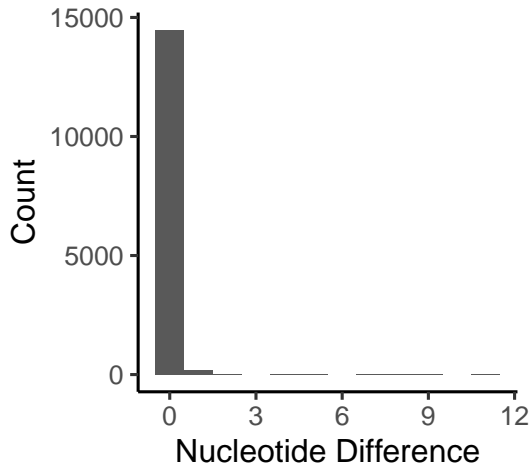
### TRBV18\*ap01

8805 sequences assigned  
8745 (99.3%) exact matches, in which:  
8656 unique CDR3  
13 unique J



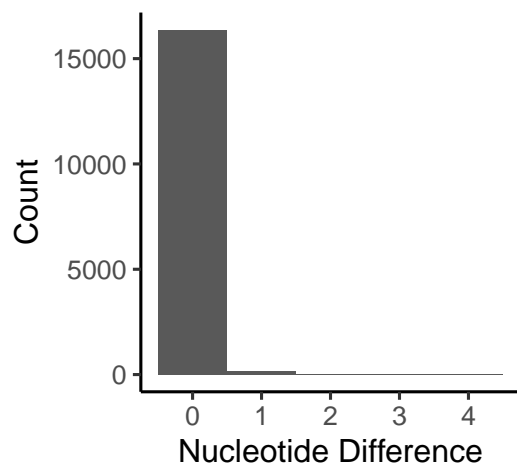
### TRBV27\*ap01

14663 sequences assigned  
14482 (98.8%) exact matches, in which:  
14149 unique CDR3  
13 unique J



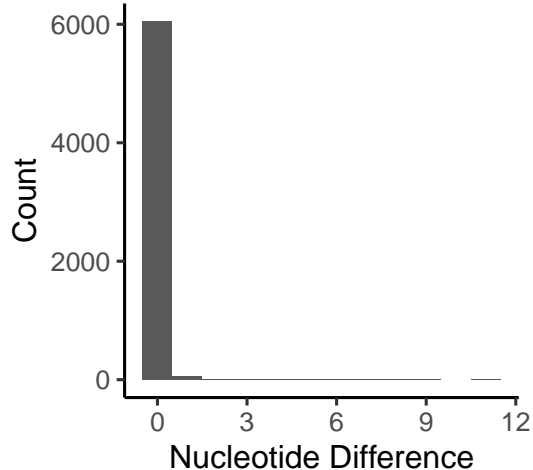
### TRBV9\*ap01

16557 sequences assigned  
16369 (98.9%) exact matches, in which:  
16111 unique CDR3  
13 unique J



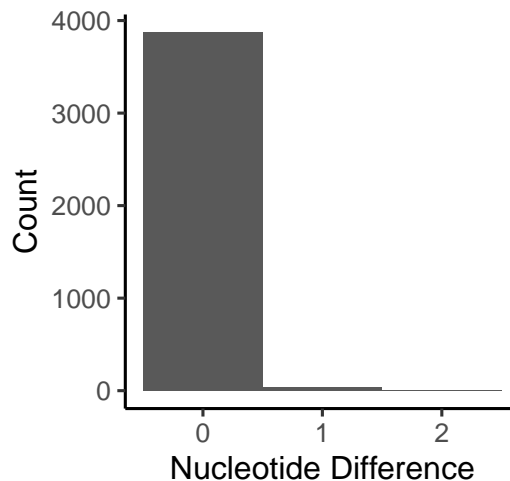
### TRBV21-1\*ap01

6140 sequences assigned  
6049 (98.5%) exact matches, in which:  
5971 unique CDR3  
13 unique J



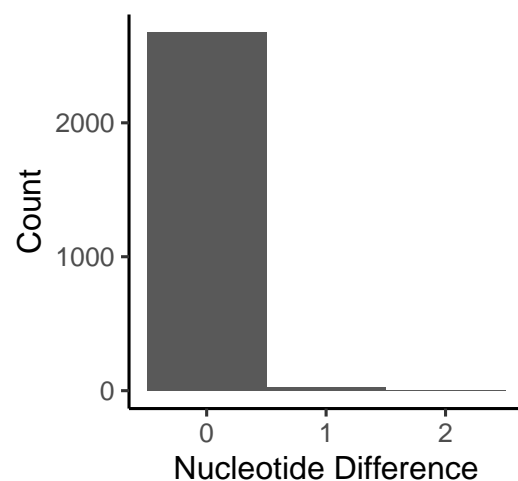
### TRBV11-3\*ap01

3908 sequences assigned  
3872 (99.1%) exact matches, in which:  
3806 unique CDR3  
13 unique J



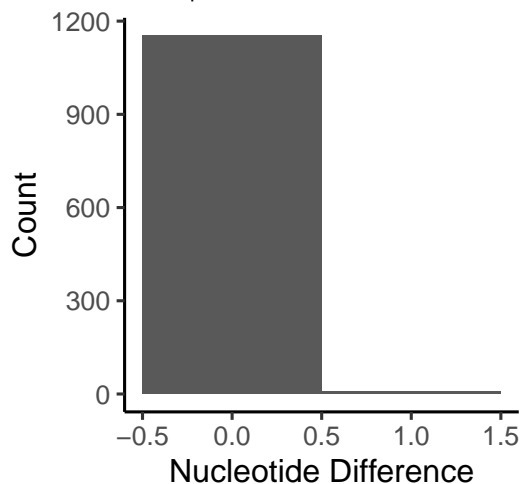
### TRBV12-5\*ap01

2702 sequences assigned  
2675 (99%) exact matches, in which:  
2635 unique CDR3  
13 unique J



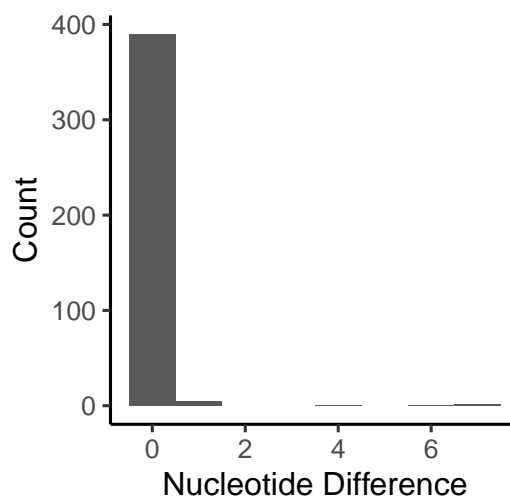
### TRBV11-1\*ap01

1162 sequences assigned  
1153 (99.2%) exact matches, in which:  
1125 unique CDR3  
13 unique J



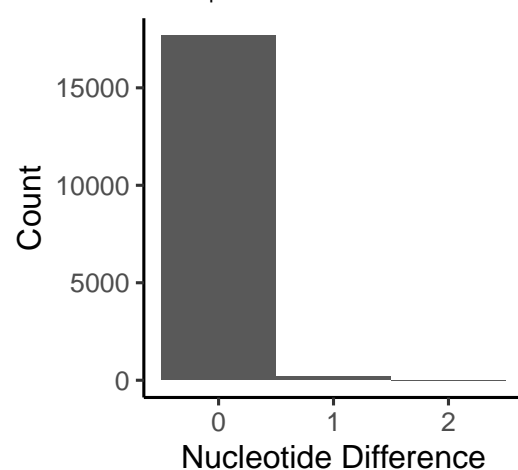
### TRBV12-1\*ap01

399 sequences assigned  
390 (97.7%) exact matches, in which:  
387 unique CDR3  
13 unique J



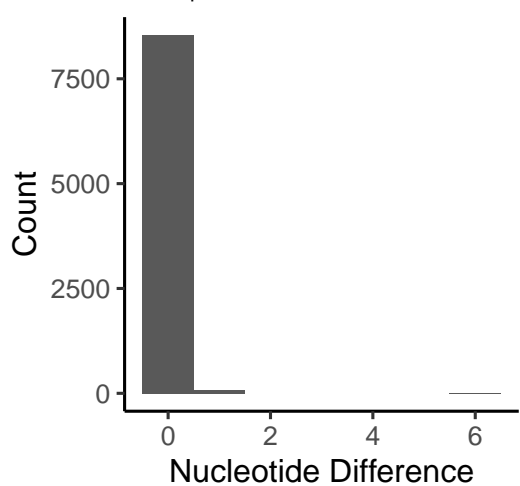
### TRBV12-34\*ap01

17878 sequences assigned  
17685 (98.9%) exact matches, in which:  
17391 unique CDR3  
13 unique J



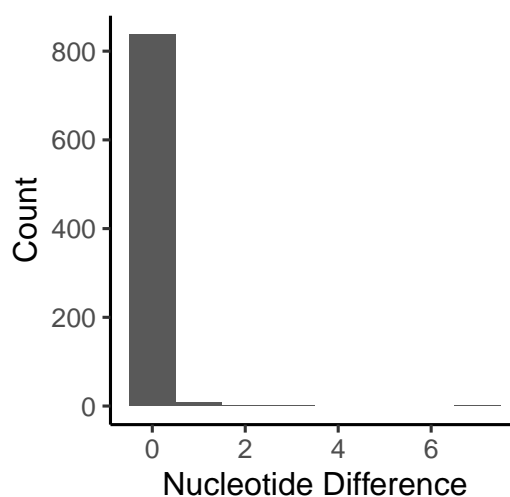
### TRBV11-2\*ap01

8622 sequences assigned  
8543 (99.1%) exact matches, in which:  
8376 unique CDR3  
13 unique J



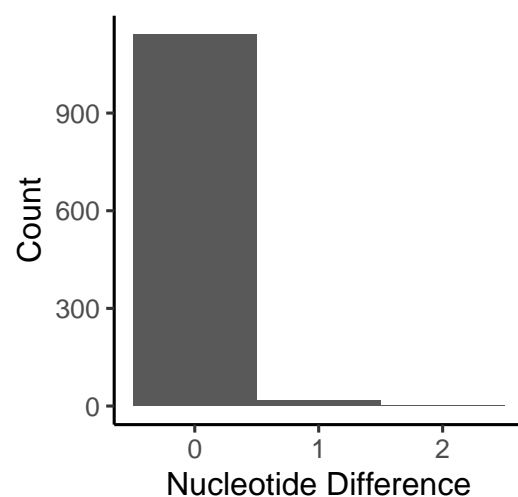
### TRBV12-2\*ap01

850 sequences assigned  
838 (98.6%) exact matches, in which:  
823 unique CDR3  
13 unique J



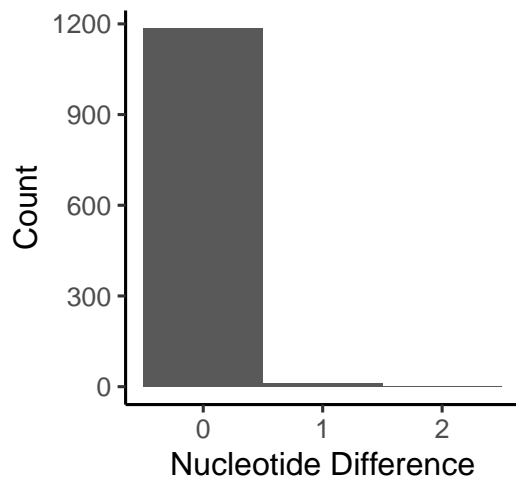
### TRBV23-1\*ap01

1160 sequences assigned  
1142 (98.4%) exact matches, in which:  
1126 unique CDR3  
13 unique J



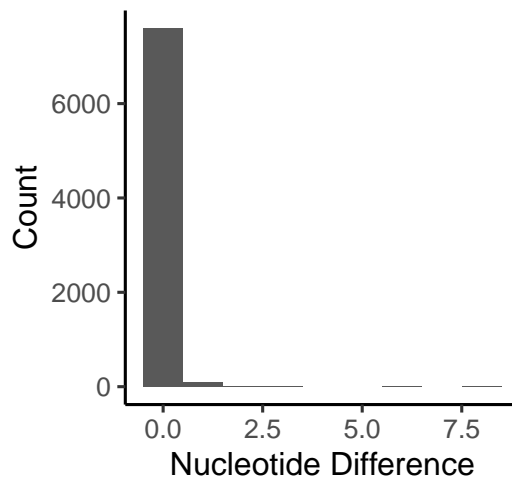
### TRBV23-1\*ap01\_T304C

1199 sequences assigned  
1185 (98.8%) exact matches, in which:  
1165 unique CDR3  
13 unique J



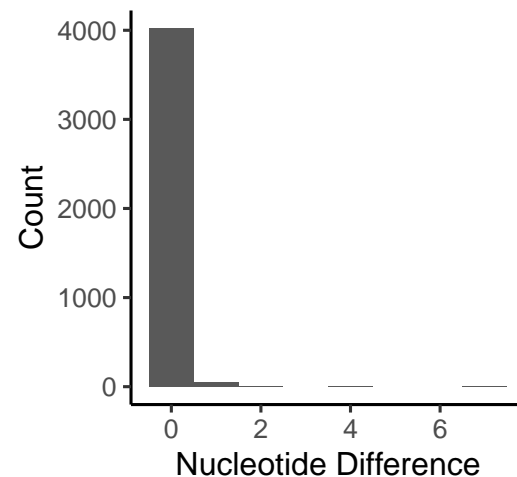
### TRBV24-1\*ap01

7693 sequences assigned  
7594 (98.7%) exact matches, in which:  
7485 unique CDR3  
13 unique J



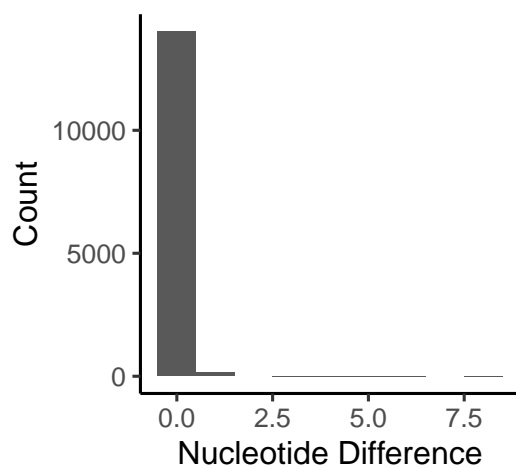
### TRBV25-1\*ap01

4075 sequences assigned  
4021 (98.7%) exact matches, in which:  
3951 unique CDR3  
13 unique J



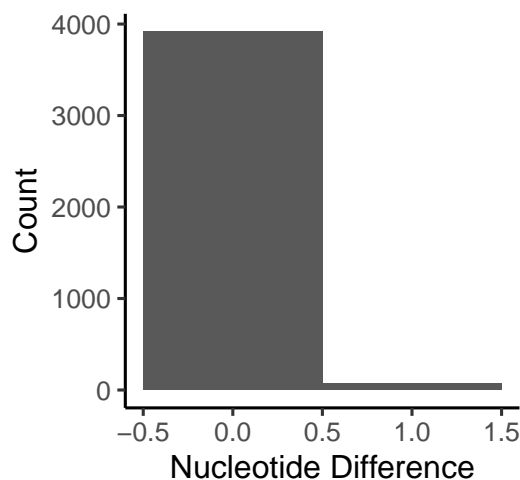
### TRBV3-12\*ap01

14189 sequences assigned  
14018 (98.8%) exact matches, in which:  
13749 unique CDR3  
13 unique J



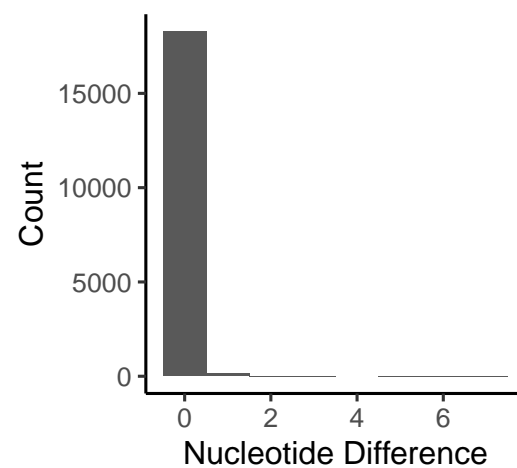
### TRBV4-2\*ap01

3986 sequences assigned  
3916 (98.2%) exact matches, in which:  
3828 unique CDR3  
13 unique J



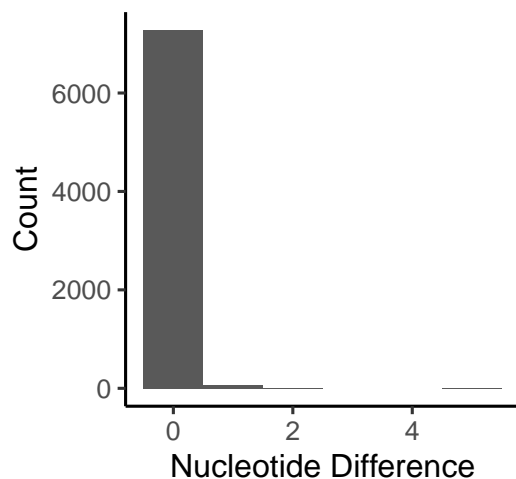
### TRBV5-1\*ap01

18449 sequences assigned  
18283 (99.1%) exact matches, in which:  
17881 unique CDR3  
13 unique J



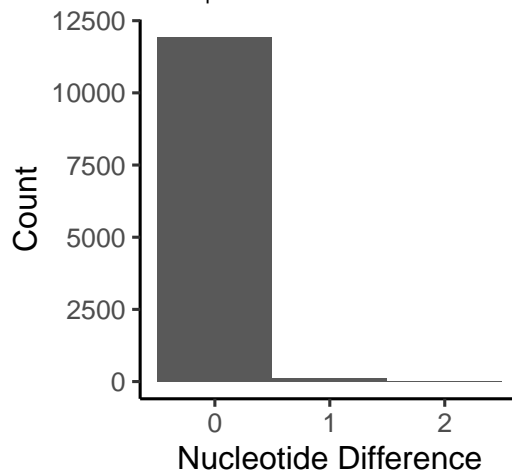
### TRBV4-1\*ap01

7349 sequences assigned  
7279 (99%) exact matches, in which:  
7152 unique CDR3  
13 unique J



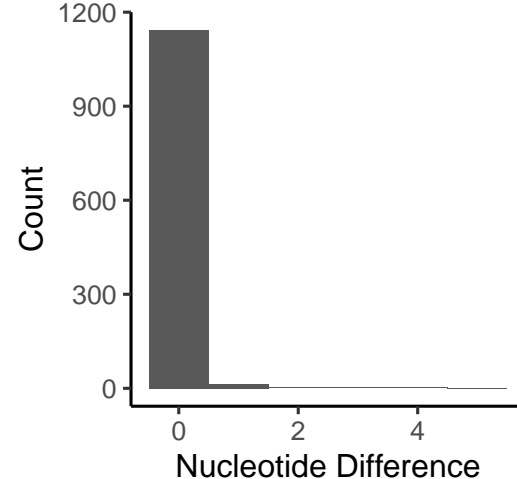
### TRBV4-3\*ap01

12057 sequences assigned  
11942 (99%) exact matches, in which:  
11712 unique CDR3  
13 unique J



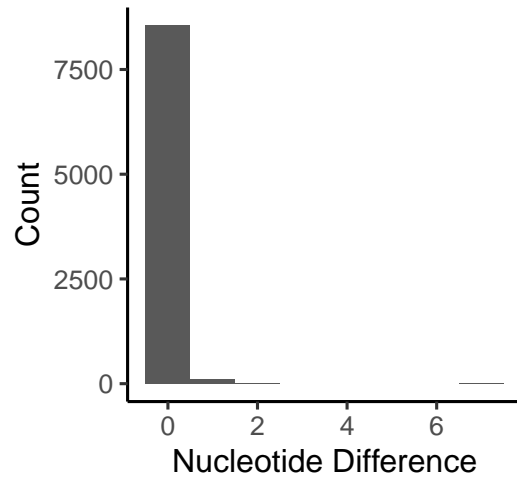
### TRBV5-3\*ap01

1166 sequences assigned  
1143 (98%) exact matches, in which:  
1121 unique CDR3  
13 unique J



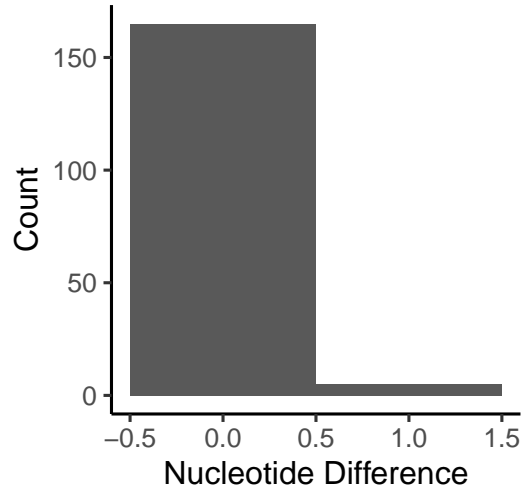
### TRBV5-4\*ap01

8667 sequences assigned  
8552 (98.7%) exact matches, in which:  
8372 unique CDR3  
13 unique J



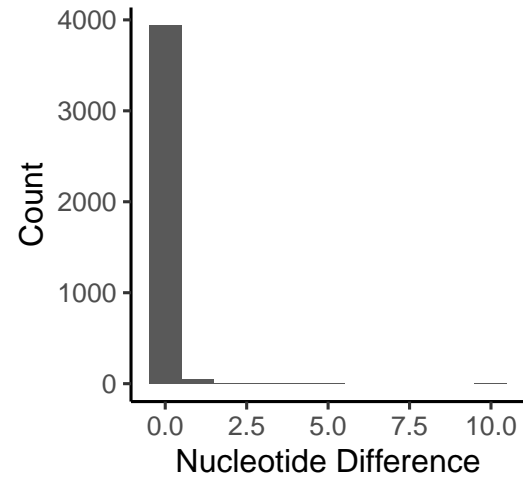
### TRBV5-7\*ap01

170 sequences assigned  
165 (97.1%) exact matches, in which:  
161 unique CDR3  
13 unique J



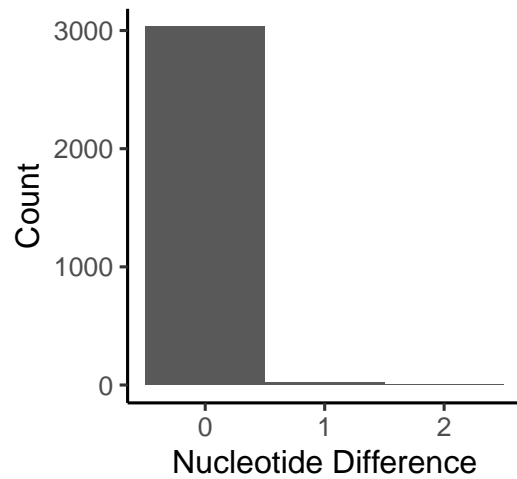
### TRBV6-4\*ap01

4003 sequences assigned  
3939 (98.4%) exact matches, in which:  
3880 unique CDR3  
13 unique J



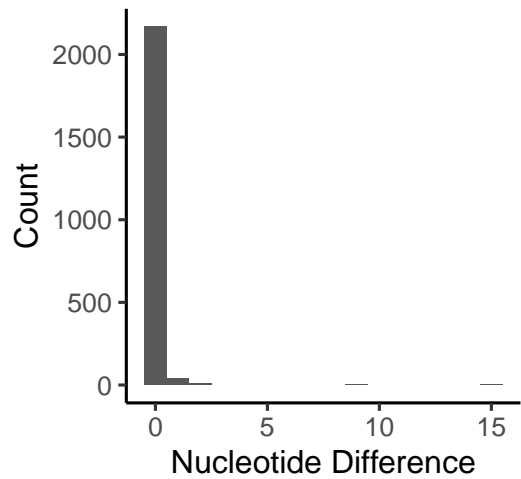
### TRBV5-5\*ap01

3057 sequences assigned  
3032 (99.2%) exact matches, in which:  
2995 unique CDR3  
13 unique J



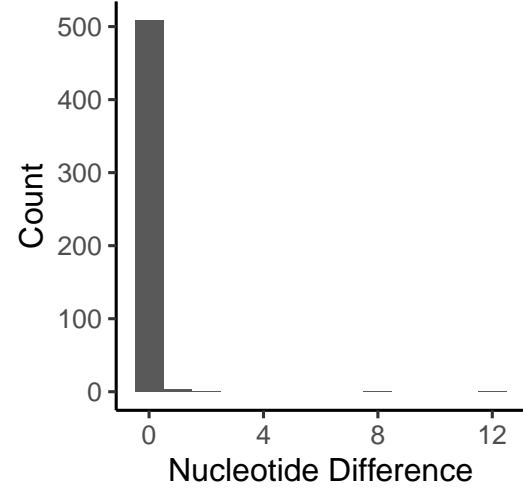
### TRBV5-8\*ap01

2218 sequences assigned  
2168 (97.7%) exact matches, in which:  
2141 unique CDR3  
13 unique J



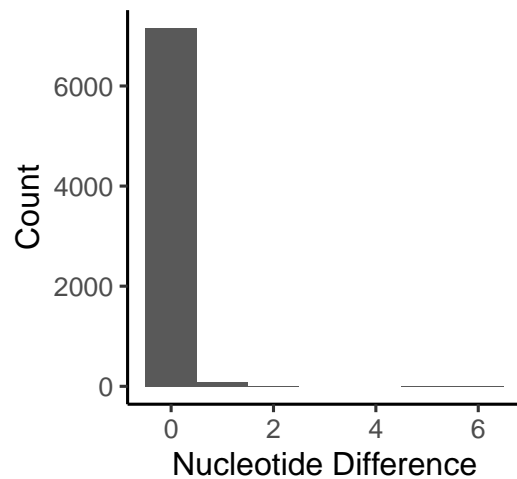
### TRBV6-7\*ap01

515 sequences assigned  
509 (98.8%) exact matches, in which:  
500 unique CDR3  
13 unique J



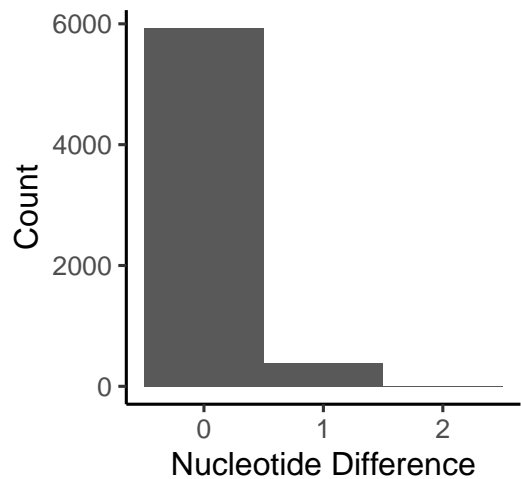
### TRBV5-6\*ap01

7253 sequences assigned  
7157 (98.7%) exact matches, in which:  
7014 unique CDR3  
13 unique J



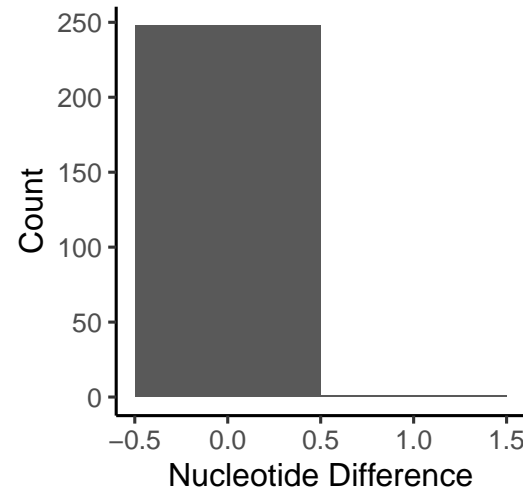
### TRBV6-1\*ap01

6325 sequences assigned  
5930 (93.8%) exact matches, in which:  
5802 unique CDR3  
13 unique J



### TRBV6-8\*ap01

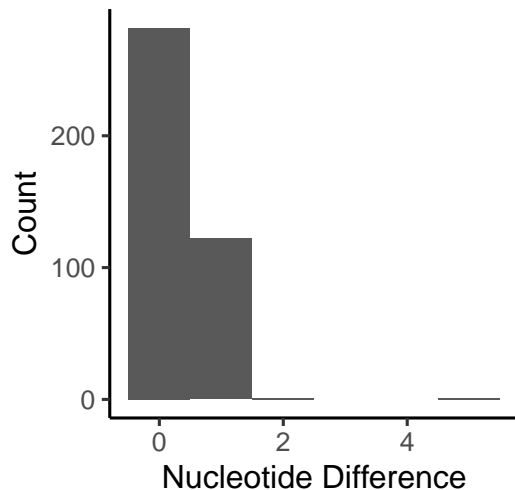
249 sequences assigned  
248 (99.6%) exact matches, in which:  
242 unique CDR3  
13 unique J





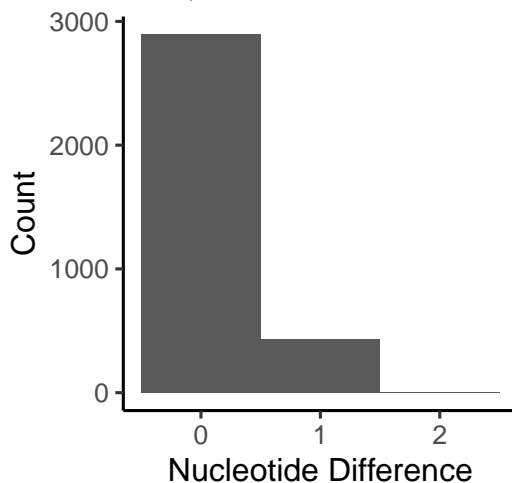
### TRBV6-9\*ap01

406 sequences assigned  
282 (69.5%) exact matches, in which:  
279 unique CDR3  
13 unique J



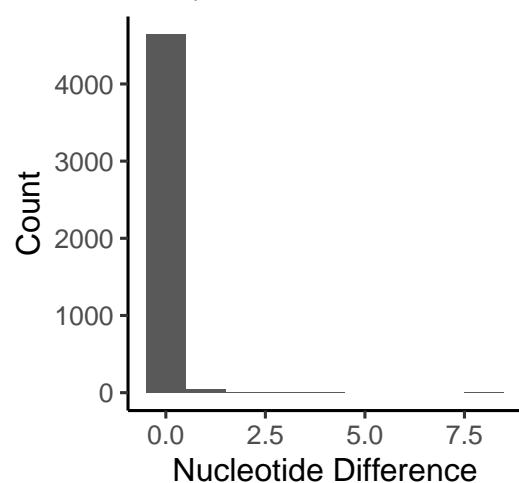
### TRBV6-56\*ap02

3330 sequences assigned  
2895 (86.9%) exact matches, in which:  
2831 unique CDR3  
13 unique J



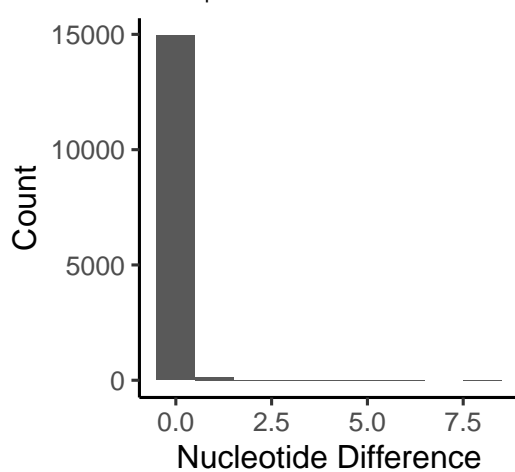
### TRBV7-3\*ap01

4686 sequences assigned  
4642 (99.1%) exact matches, in which:  
4572 unique CDR3  
13 unique J



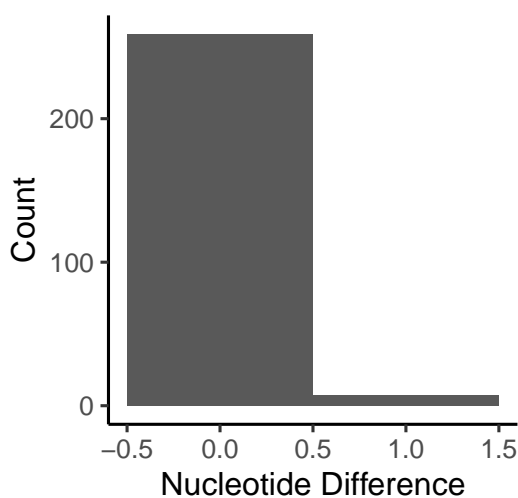
### TRBV6-23\*ap01

15127 sequences assigned  
14952 (98.8%) exact matches, in which:  
14661 unique CDR3  
14 unique J



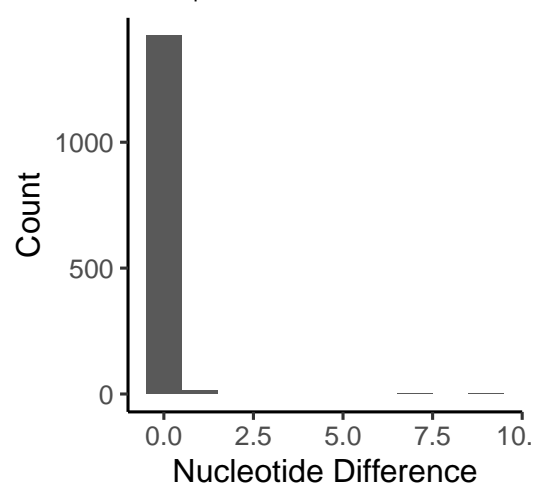
### TRBV7-1\*ap01\_G291C\_

266 sequences assigned  
259 (97.4%) exact matches, in which:  
256 unique CDR3  
13 unique J



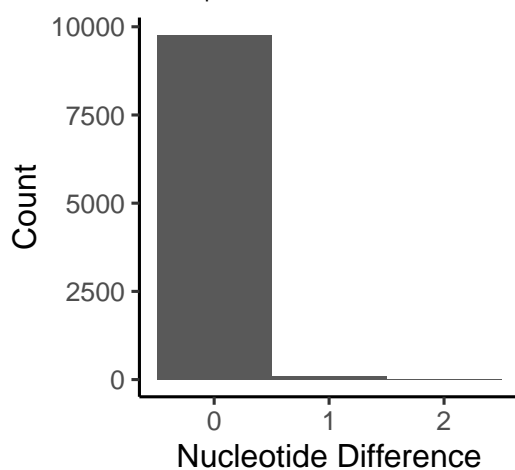
### TRBV7-3\*ap02

1439 sequences assigned  
1423 (98.9%) exact matches, in which:  
1404 unique CDR3  
13 unique J



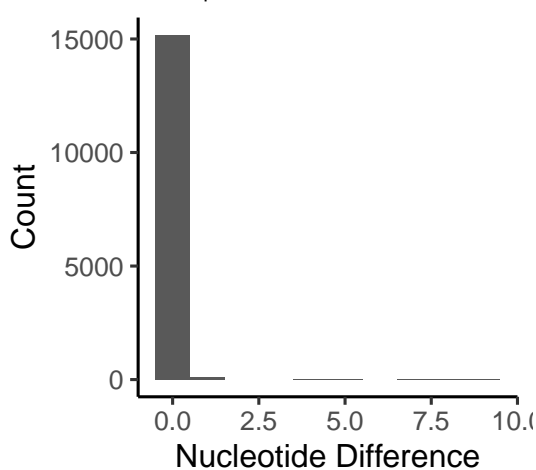
### TRBV6-56\*ap01

9876 sequences assigned  
9773 (99%) exact matches, in which:  
9567 unique CDR3  
13 unique J



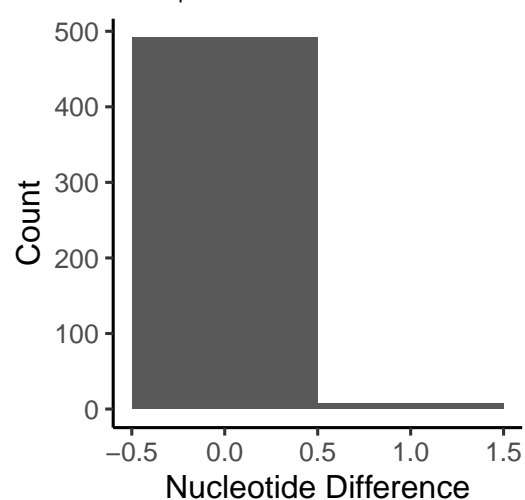
### TRBV7-2\*ap01

15307 sequences assigned  
15185 (99.2%) exact matches, in which:  
14965 unique CDR3  
13 unique J



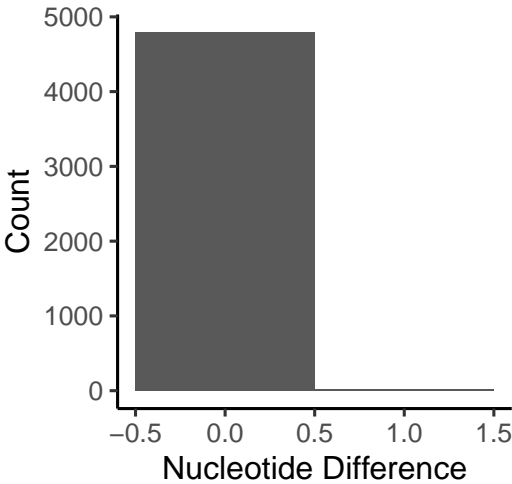
### TRBV7-4\*ap01

499 sequences assigned  
492 (98.6%) exact matches, in which:  
481 unique CDR3  
13 unique J



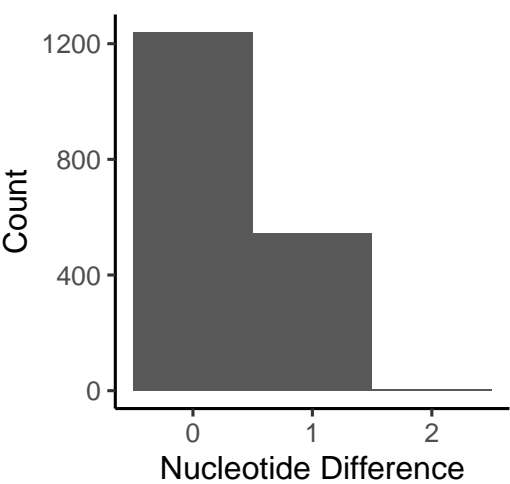
TRBV7-6\*ap01

4817 sequences assigned  
4792 (99.5%) exact matches, in which:  
4695 unique CDR3  
13 unique J



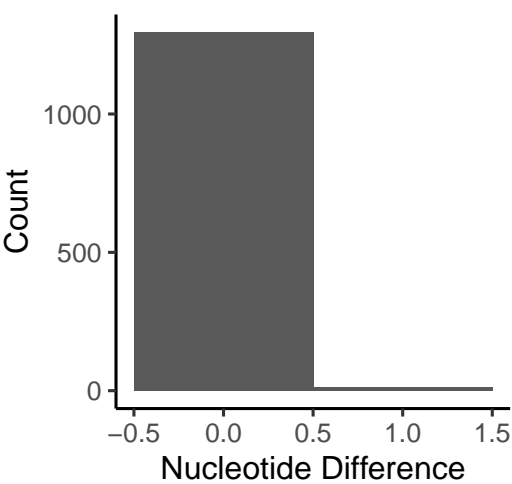
TRBV7-8\*ap03

1789 sequences assigned  
1239 (69.3%) exact matches, in which:  
1207 unique CDR3  
13 unique J



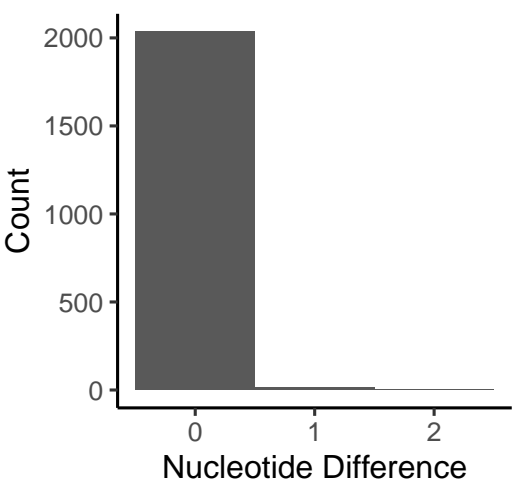
TRBV29-1\*ap02

1308 sequences assigned  
1295 (99%) exact matches, in which:  
1266 unique CDR3  
13 unique J



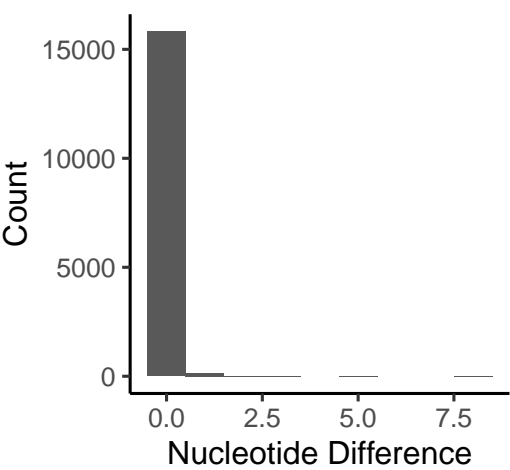
TRBV7-7\*ap01\_C315T

2052 sequences assigned  
2035 (99.2%) exact matches, in which:  
2010 unique CDR3  
13 unique J



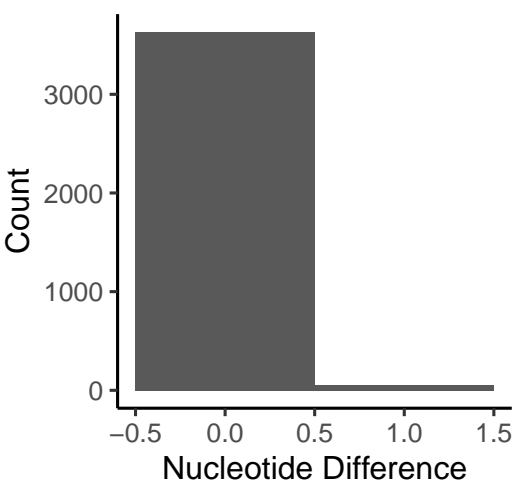
TRBV7-9\*ap01

15976 sequences assigned  
15820 (99%) exact matches, in which:  
15603 unique CDR3  
13 unique J



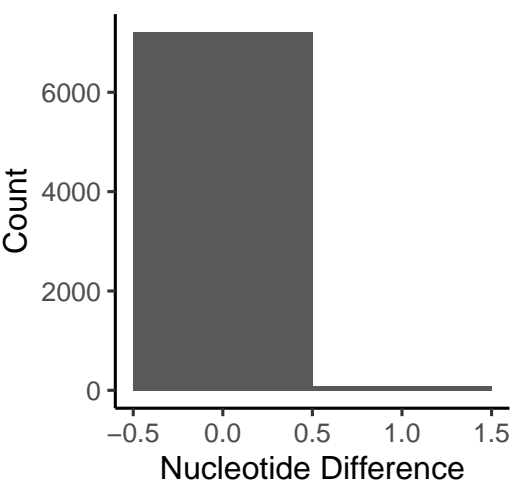
TRBV7-8\*ap01

3686 sequences assigned  
3631 (98.5%) exact matches, in which:  
3542 unique CDR3  
13 unique J

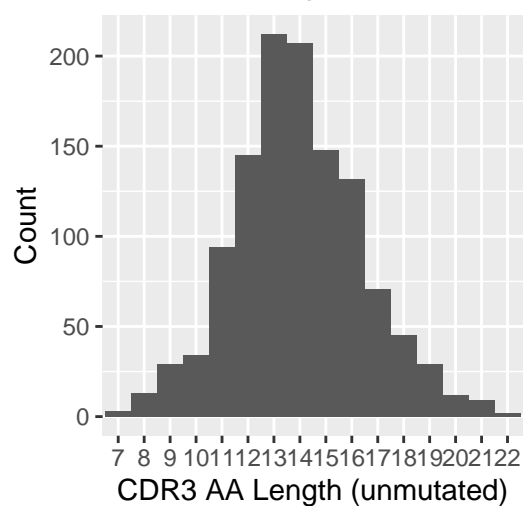


TRBV29-1\*ap01

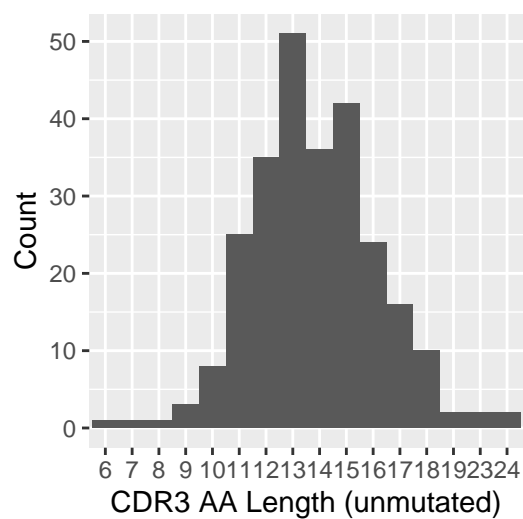
7295 sequences assigned  
7213 (98.9%) exact matches, in which:  
7067 unique CDR3  
13 unique J



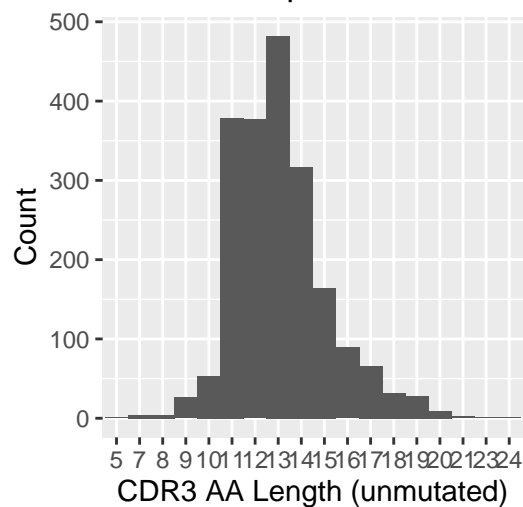
TRBV23-1\*ap01\_T304C



TRBV7-1\*ap01\_G291C\_T296C



TRBV7-7\*ap01\_C315T





[illegible]