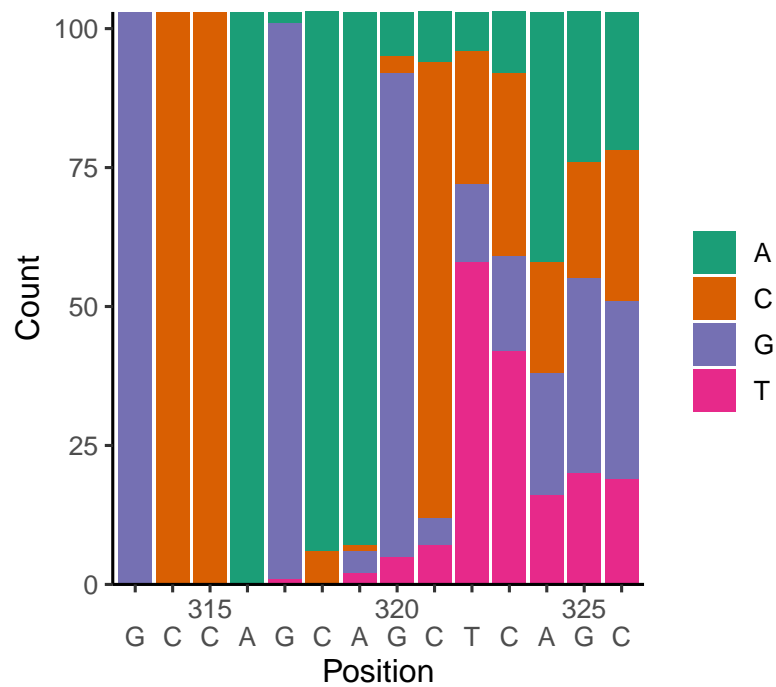
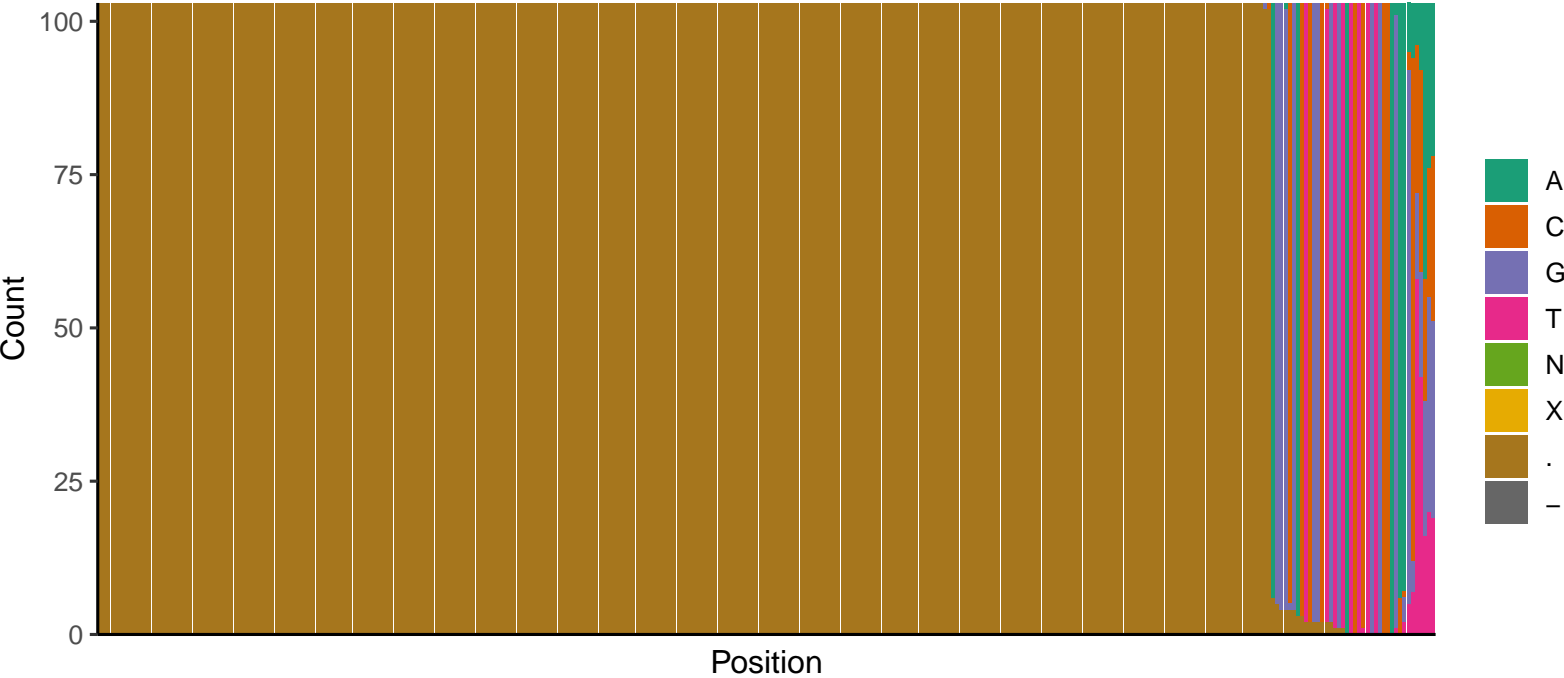


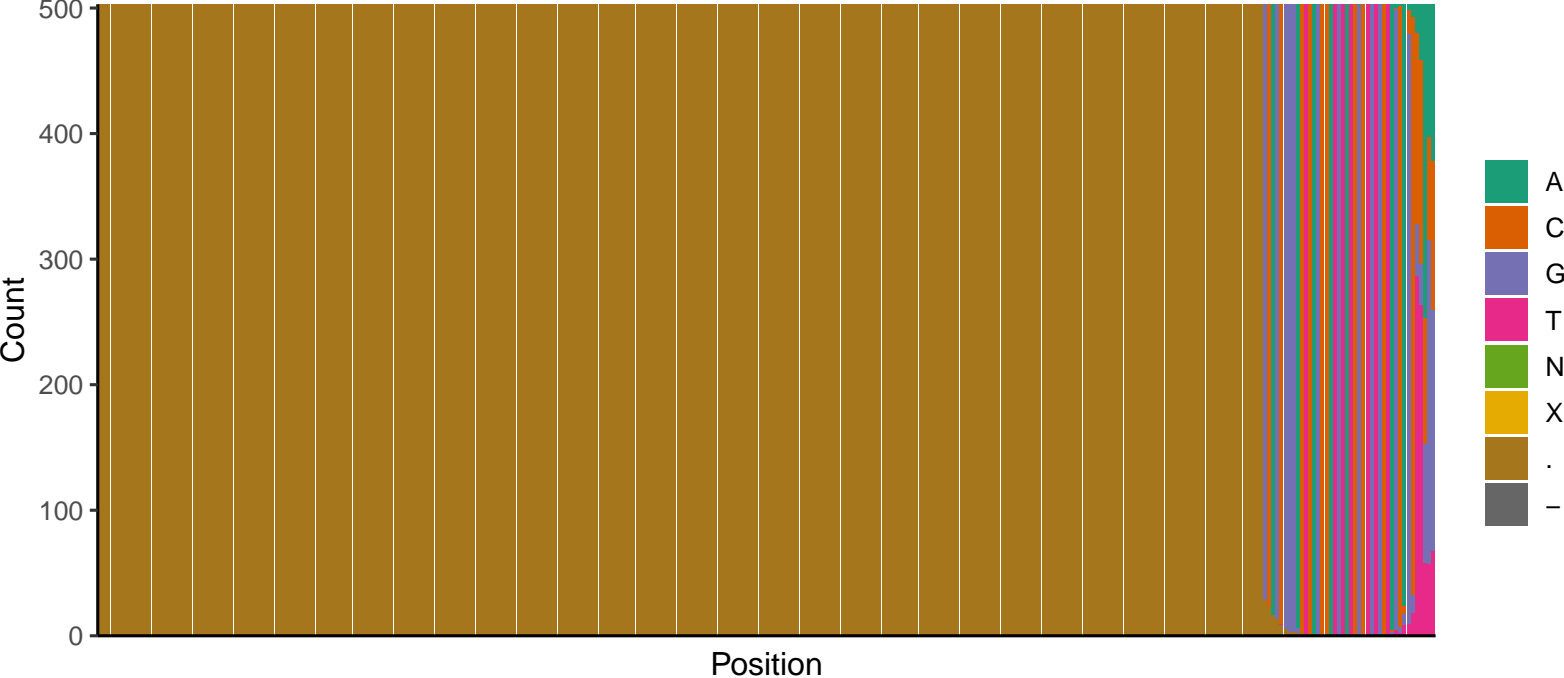
Gene TRBV7-1\*ap01\_G291C\_T296C



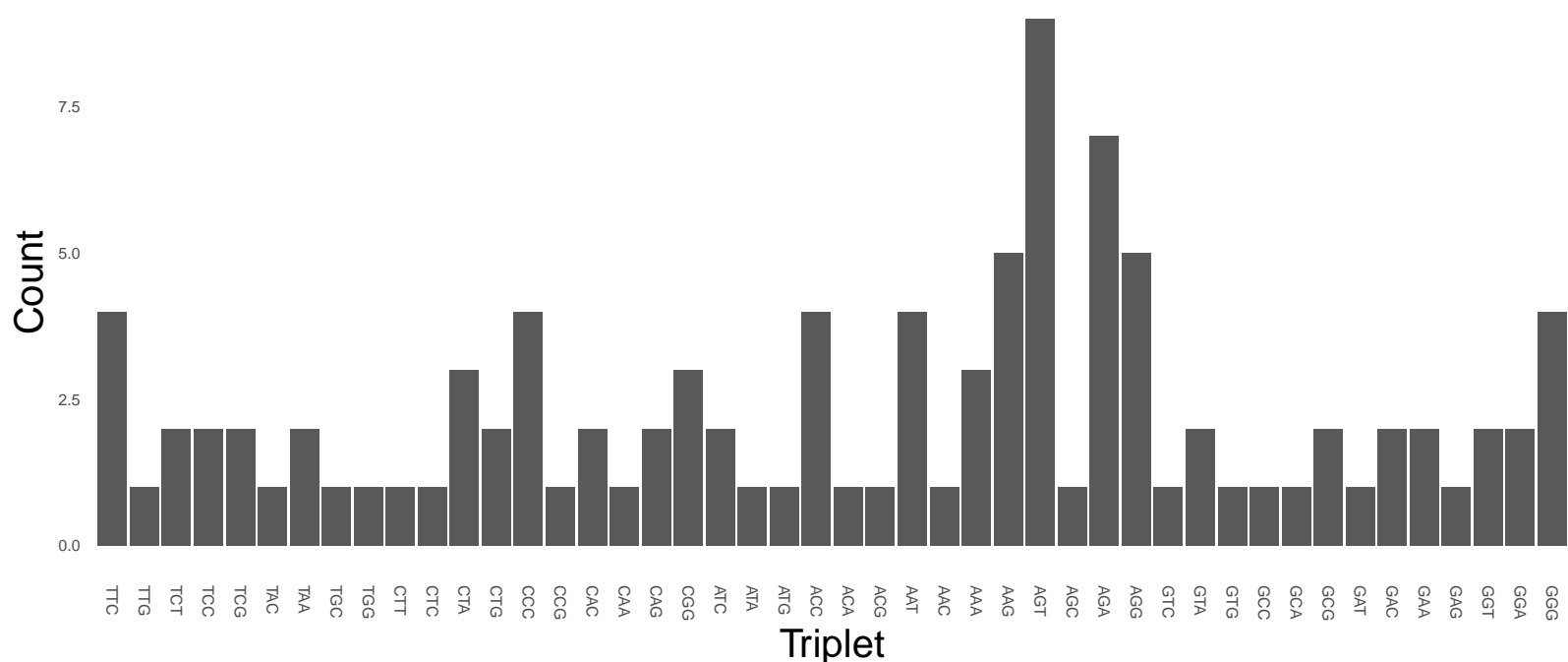
Gene TRBV7-1\*ap01\_G291C\_T296C



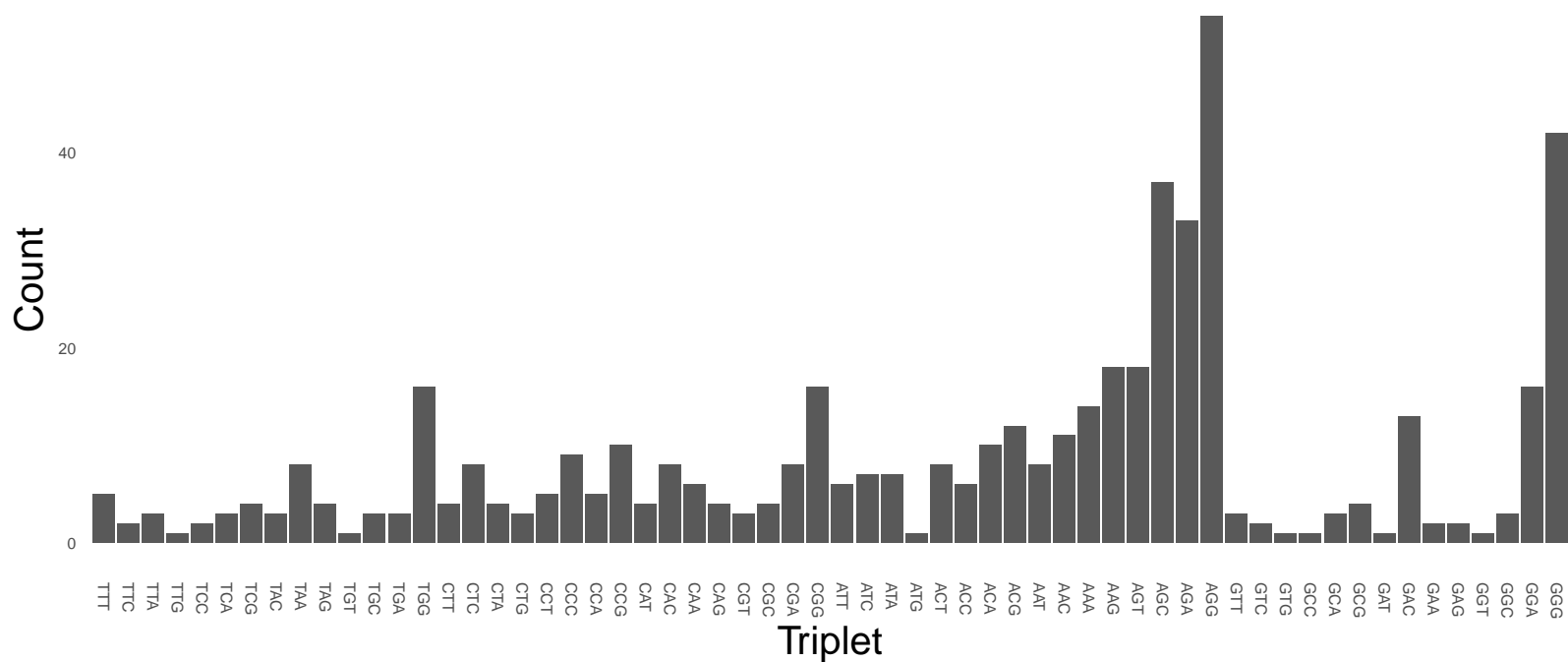
Gene TRBV7-7\*ap01\_C315T



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

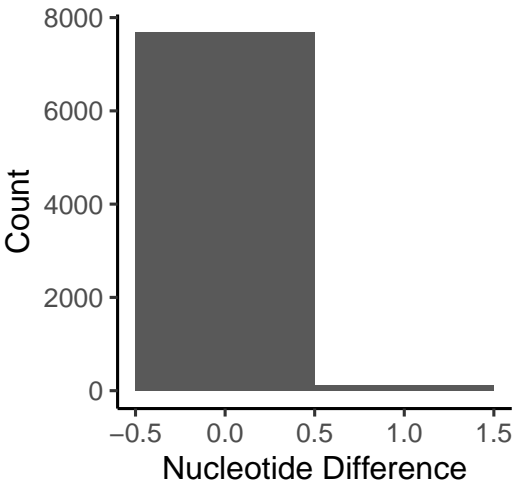


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



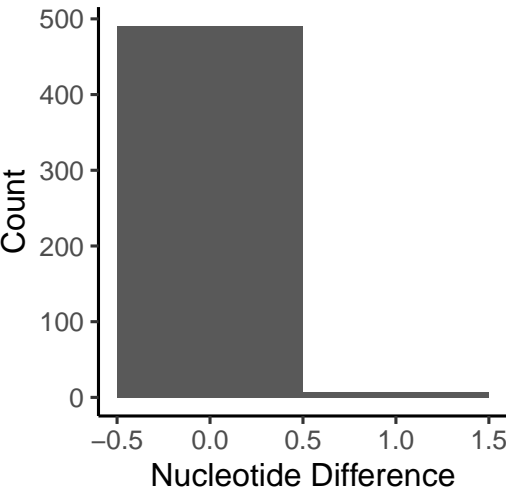
TRBV20-1\*ap01

7790 sequences assigned  
7682 (98.6%) exact matches, in which:  
7549 unique CDR3  
13 unique J



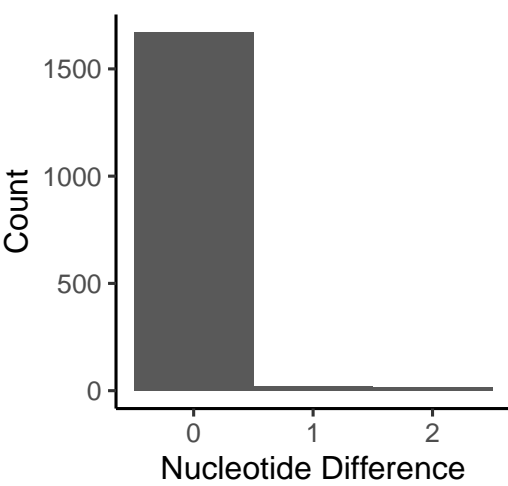
TRBV10-2\*ap01

498 sequences assigned  
491 (98.6%) exact matches, in which:  
478 unique CDR3  
13 unique J



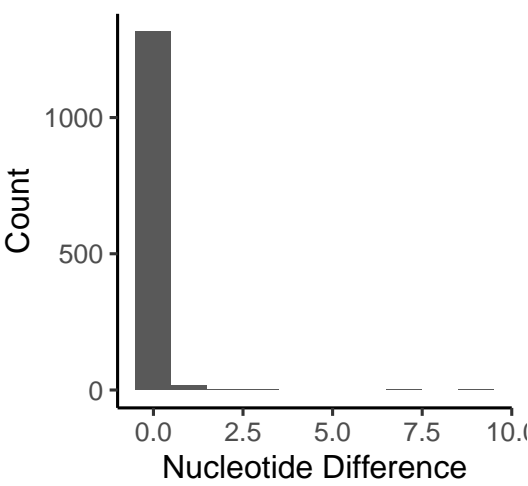
TRBV13\*ap01

1706 sequences assigned  
1670 (97.9%) exact matches, in which:  
1621 unique CDR3  
13 unique J



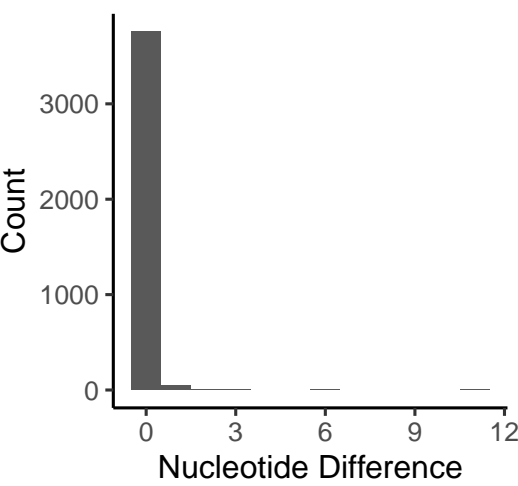
TRBV10-1\*ap01

1340 sequences assigned  
1315 (98.1%) exact matches, in which:  
1278 unique CDR3  
13 unique J



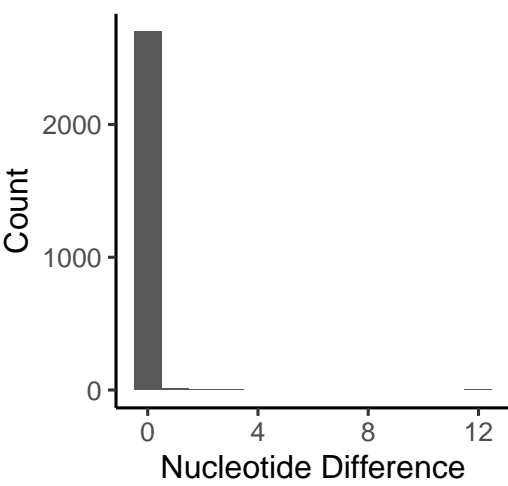
TRBV10-3\*ap01

3812 sequences assigned  
3756 (98.5%) exact matches, in which:  
3685 unique CDR3  
13 unique J



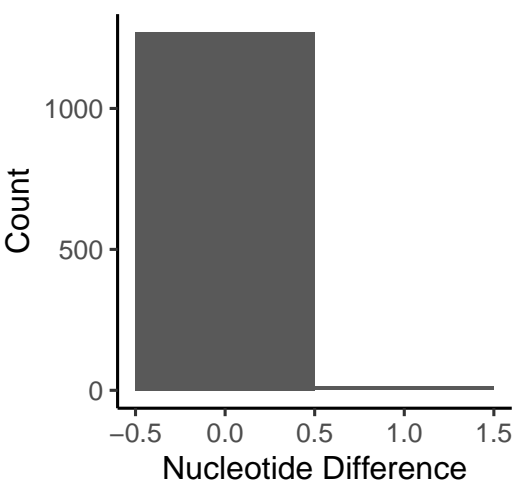
TRBV14\*ap01

2716 sequences assigned  
2699 (99.4%) exact matches, in which:  
2648 unique CDR3  
13 unique J



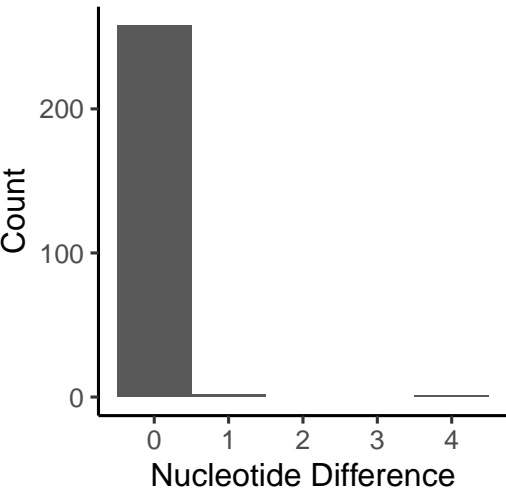
TRBV20-1\*ap02

1284 sequences assigned  
1271 (99%) exact matches, in which:  
1251 unique CDR3  
13 unique J



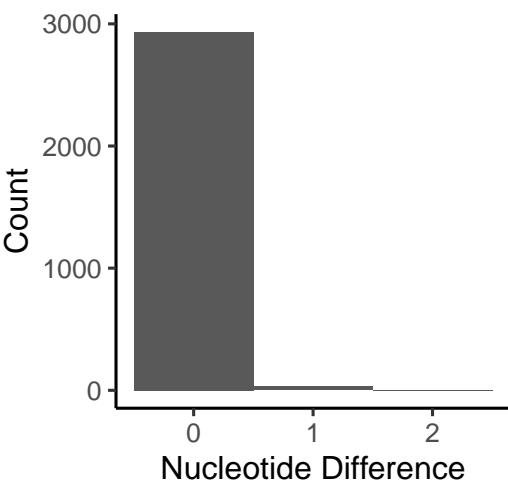
TRBV1\*ap01

261 sequences assigned  
258 (98.9%) exact matches, in which:  
250 unique CDR3  
13 unique J



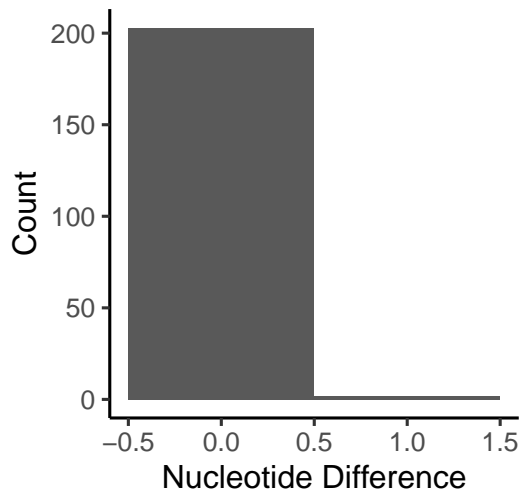
TRBV15\*ap02

2964 sequences assigned  
2933 (99%) exact matches, in which:  
2862 unique CDR3  
13 unique J



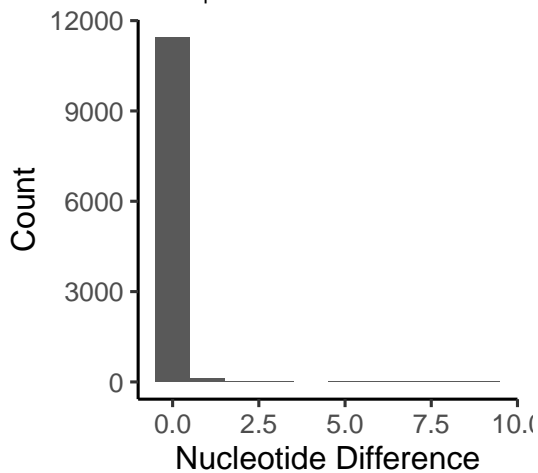
### TRBV16\*ap01

205 sequences assigned  
203 (99%) exact matches, in which:  
202 unique CDR3  
13 unique J



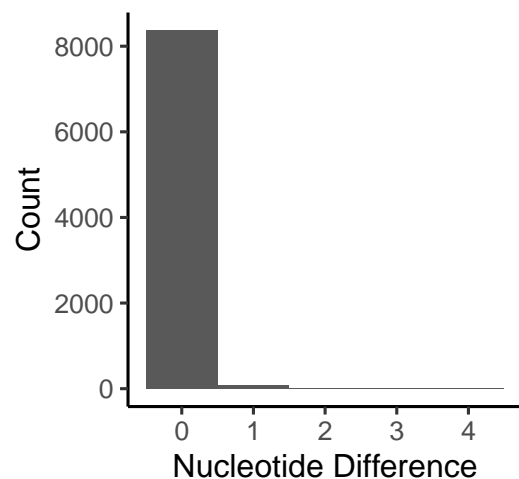
### TRBV19\*ap01

11572 sequences assigned  
11451 (99%) exact matches, in which:  
11315 unique CDR3  
13 unique J



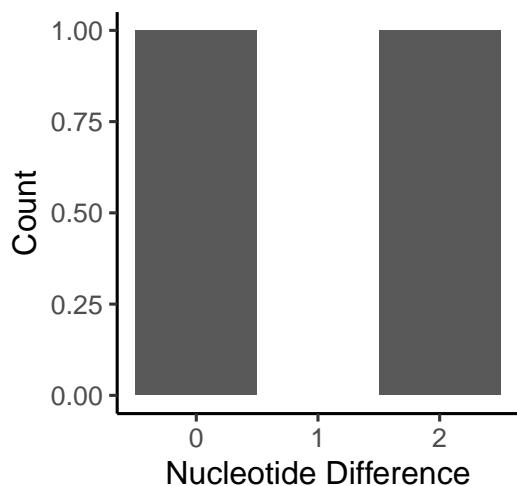
### TRBV28\*ap01

8457 sequences assigned  
8369 (99%) exact matches, in which:  
8237 unique CDR3  
13 unique J



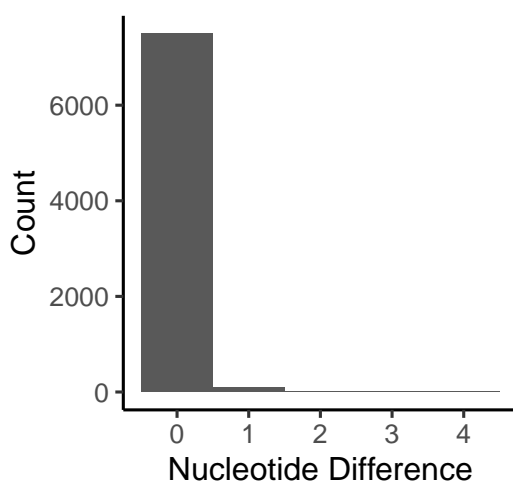
### TRBV17\*ap01

2 sequences assigned  
1 (50%) exact matches, in which:  
1 unique CDR3  
1 unique J



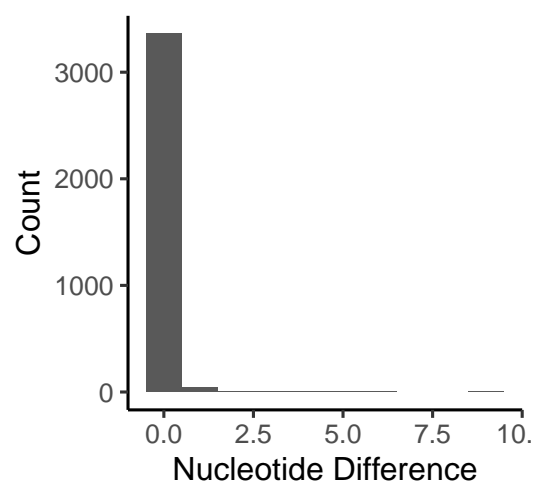
### TRBV2\*ap01

7598 sequences assigned  
7495 (98.6%) exact matches, in which:  
7347 unique CDR3  
13 unique J



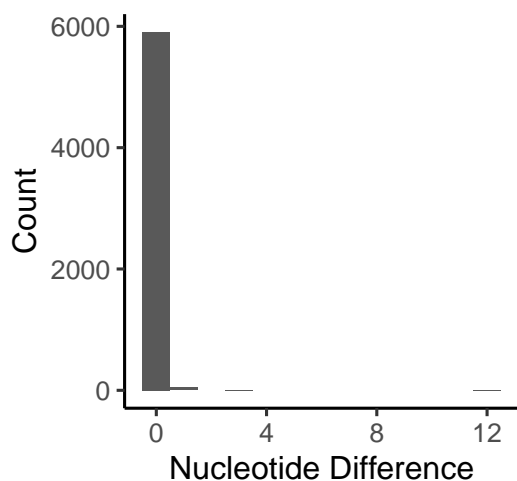
### TRBV30\*ap02

3416 sequences assigned  
3361 (98.4%) exact matches, in which:  
3318 unique CDR3  
13 unique J



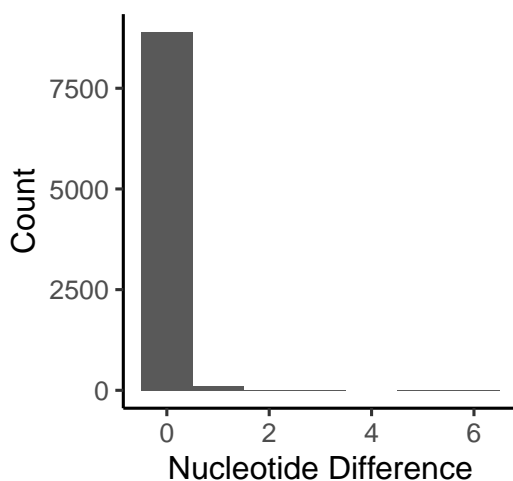
### TRBV18\*ap01

5953 sequences assigned  
5906 (99.2%) exact matches, in which:  
5836 unique CDR3  
13 unique J



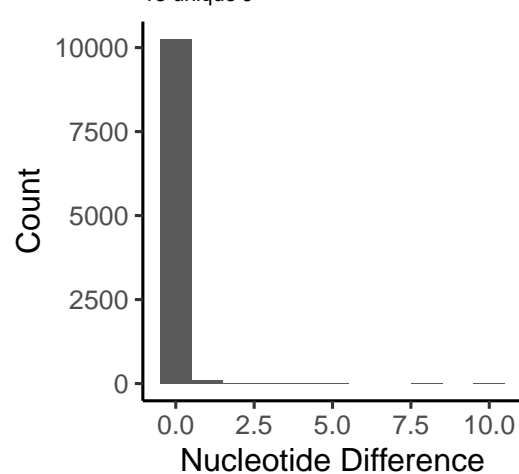
### TRBV27\*ap01

9020 sequences assigned  
8896 (98.6%) exact matches, in which:  
8687 unique CDR3  
13 unique J



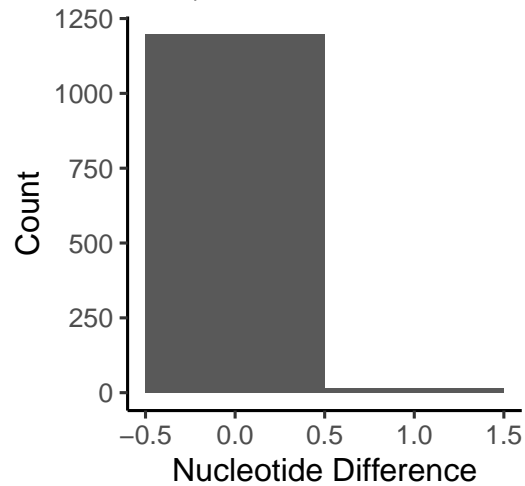
### TRBV9\*ap01

10377 sequences assigned  
10262 (98.9%) exact matches, in which:  
10079 unique CDR3  
13 unique J



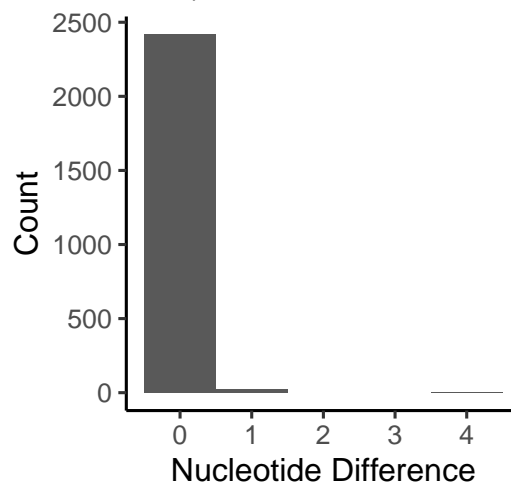
### TRBV11-1\*ap01

1212 sequences assigned  
1197 (98.8%) exact matches, in which:  
1173 unique CDR3  
13 unique J



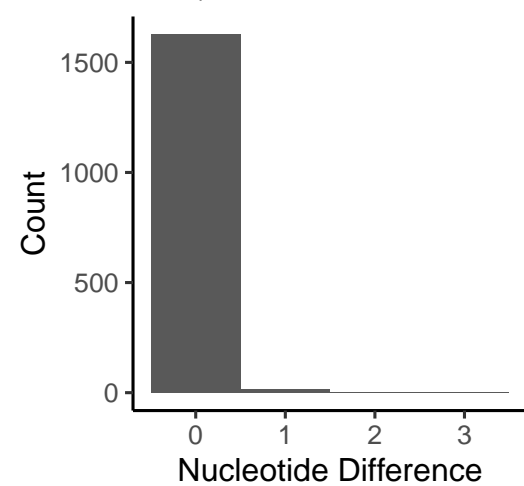
### TRBV11-3\*ap01

2442 sequences assigned  
2418 (99%) exact matches, in which:  
2370 unique CDR3  
13 unique J



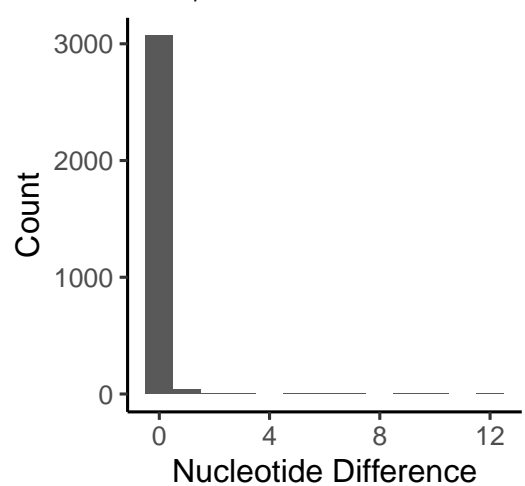
### TRBV12-5\*ap01

1647 sequences assigned  
1627 (98.8%) exact matches, in which:  
1603 unique CDR3  
13 unique J



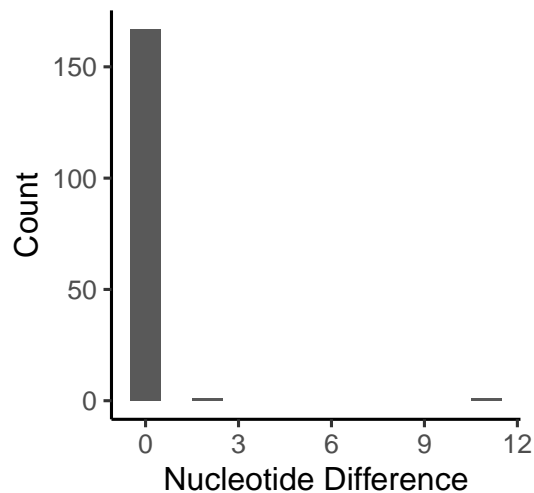
### TRBV21-1\*ap01

3129 sequences assigned  
3069 (98.1%) exact matches, in which:  
3020 unique CDR3  
13 unique J



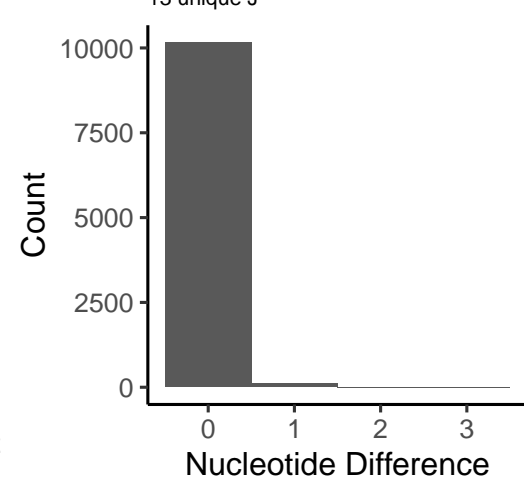
### TRBV12-1\*ap01

169 sequences assigned  
167 (98.8%) exact matches, in which:  
166 unique CDR3  
13 unique J



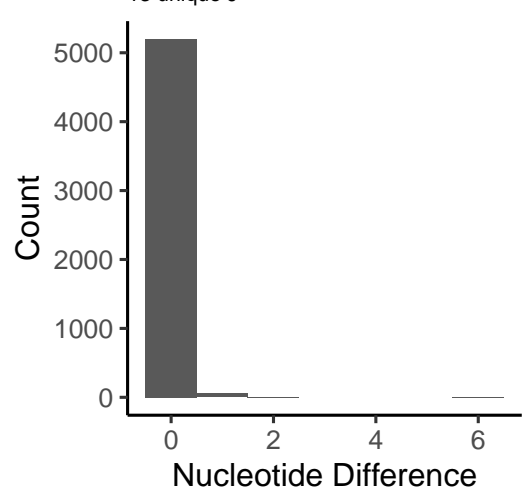
### TRBV12-34\*ap01

10278 sequences assigned  
10161 (98.9%) exact matches, in which:  
9987 unique CDR3  
13 unique J



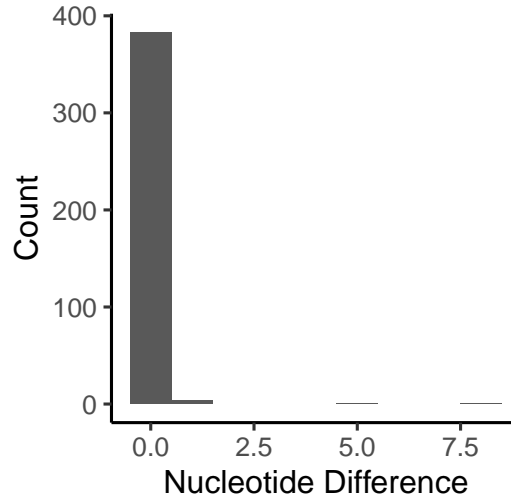
### TRBV11-2\*ap01

5254 sequences assigned  
5199 (99%) exact matches, in which:  
5085 unique CDR3  
13 unique J



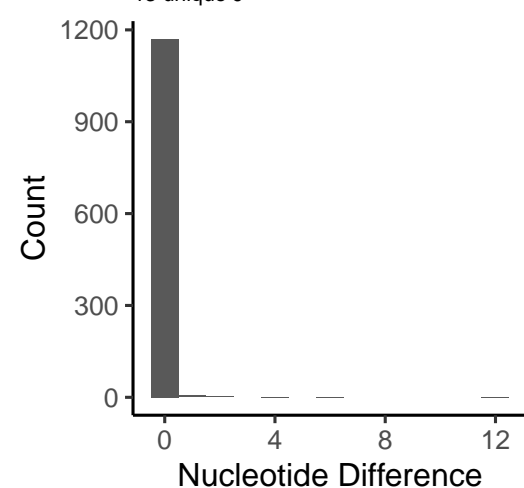
### TRBV12-2\*ap01

389 sequences assigned  
383 (98.5%) exact matches, in which:  
370 unique CDR3  
13 unique J



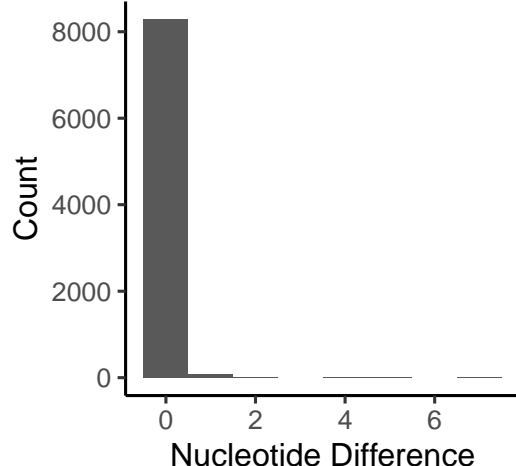
### TRBV23-1\*ap01

1183 sequences assigned  
1170 (98.9%) exact matches, in which:  
1149 unique CDR3  
13 unique J



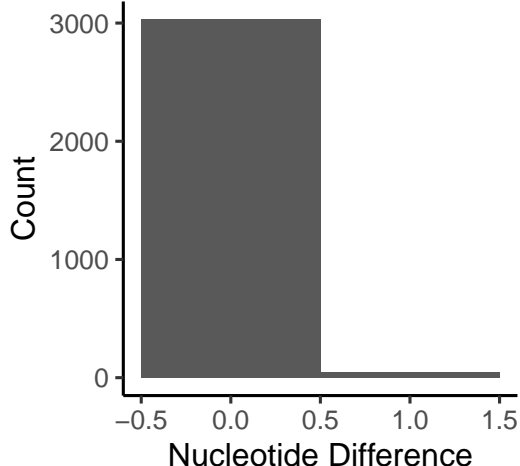
### TRBV3–12\*ap01

8389 sequences assigned  
8285 (98.8%) exact matches, in which:  
8147 unique CDR3  
13 unique J



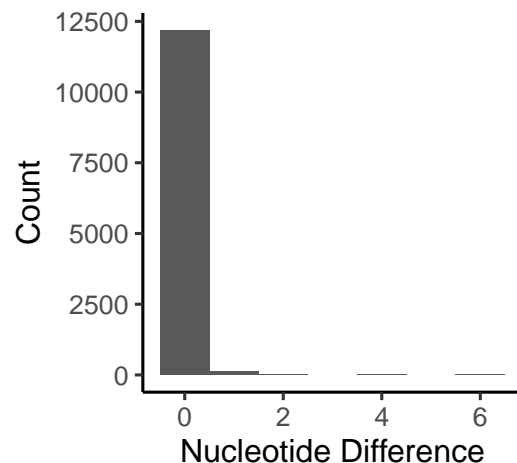
### TRBV4–2\*ap01

3081 sequences assigned  
3031 (98.4%) exact matches, in which:  
2971 unique CDR3  
13 unique J



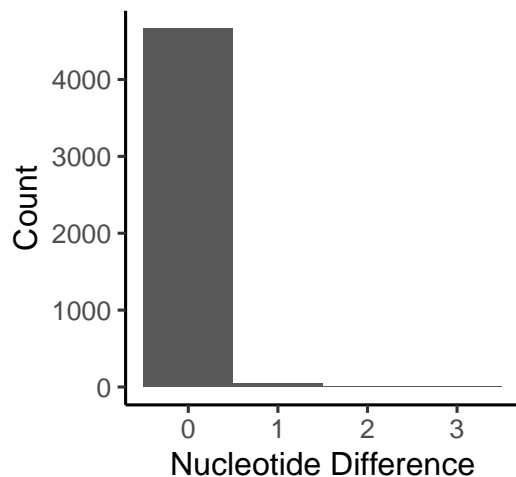
### TRBV5–1\*ap01

12311 sequences assigned  
12189 (99%) exact matches, in which:  
11914 unique CDR3  
13 unique J



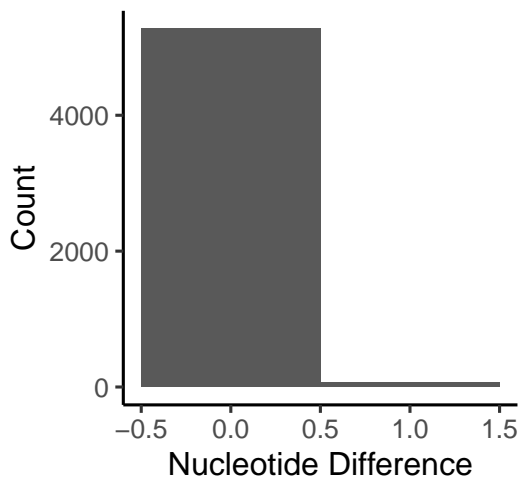
### TRBV4–1\*ap01

4705 sequences assigned  
4660 (99%) exact matches, in which:  
4592 unique CDR3  
13 unique J



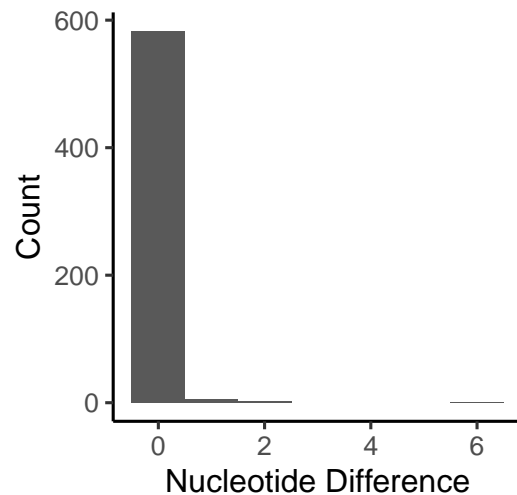
### TRBV4–3\*ap01

5340 sequences assigned  
5274 (98.8%) exact matches, in which:  
5168 unique CDR3  
13 unique J



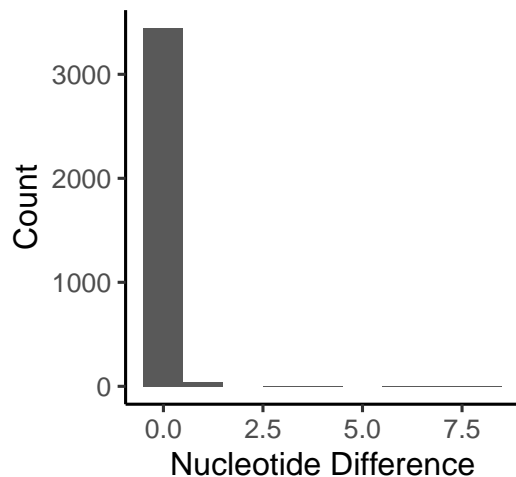
### TRBV5–3\*ap01

591 sequences assigned  
583 (98.6%) exact matches, in which:  
571 unique CDR3  
13 unique J



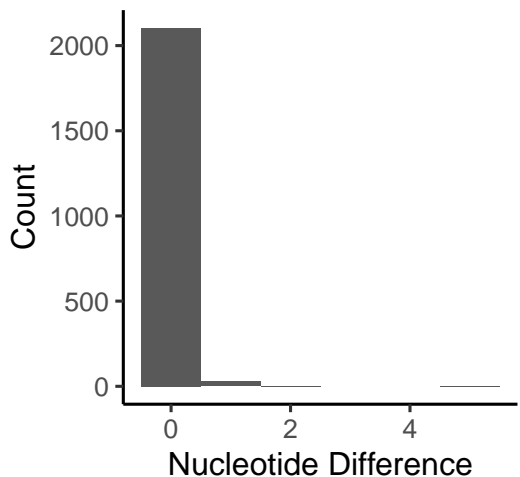
### TRBV24–1\*ap01

3492 sequences assigned  
3445 (98.7%) exact matches, in which:  
3384 unique CDR3  
13 unique J



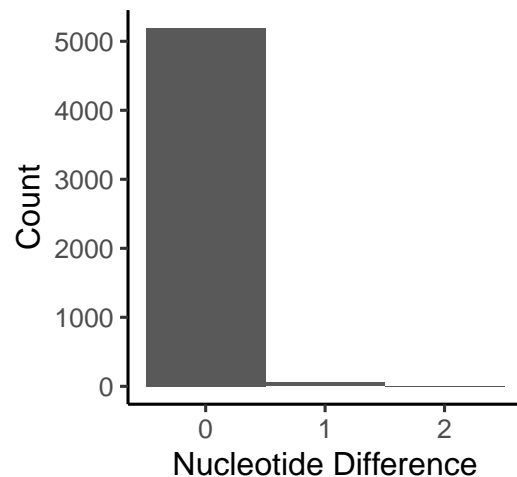
### TRBV25–1\*ap01

2133 sequences assigned  
2103 (98.6%) exact matches, in which:  
2061 unique CDR3  
13 unique J



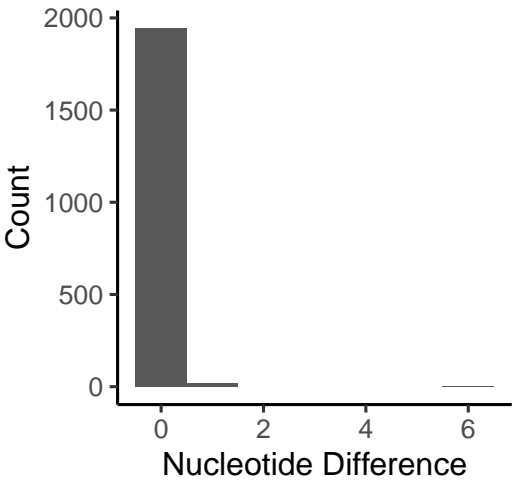
### TRBV5–4\*ap01

5249 sequences assigned  
5192 (98.9%) exact matches, in which:  
5082 unique CDR3  
13 unique J



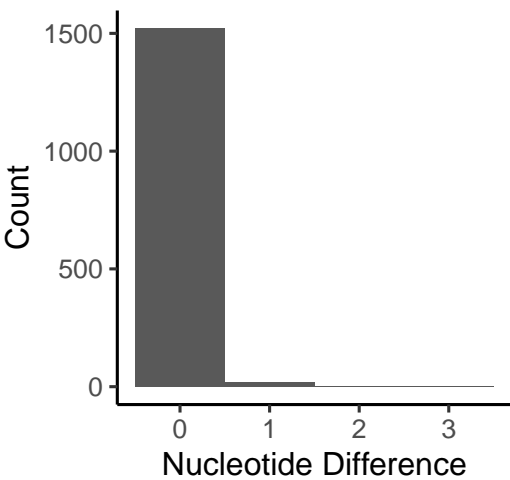
TRBV5-5\*ap01

1961 sequences assigned  
1943 (99.1%) exact matches, in which:  
1922 unique CDR3  
13 unique J



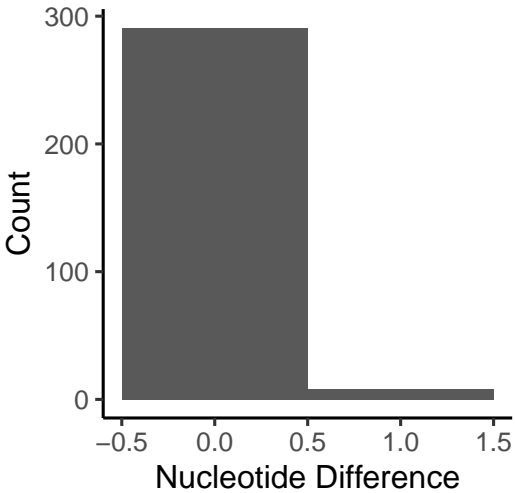
TRBV5-8\*ap01

1545 sequences assigned  
1521 (98.4%) exact matches, in which:  
1499 unique CDR3  
13 unique J



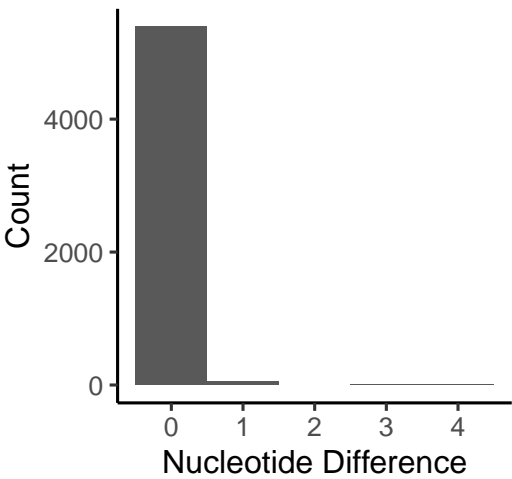
TRBV6-7\*ap01

299 sequences assigned  
291 (97.3%) exact matches, in which:  
282 unique CDR3  
13 unique J



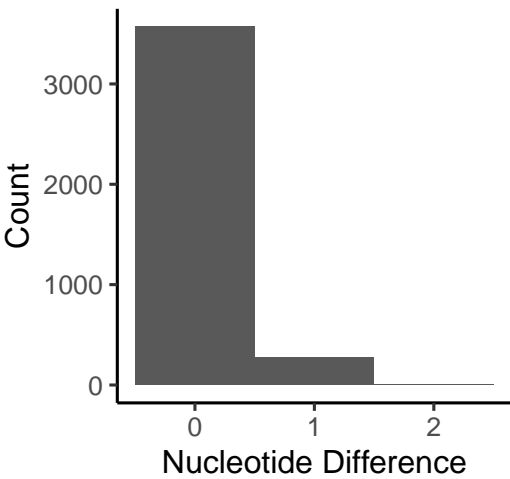
TRBV5-6\*ap01

5447 sequences assigned  
5390 (99%) exact matches, in which:  
5276 unique CDR3  
13 unique J



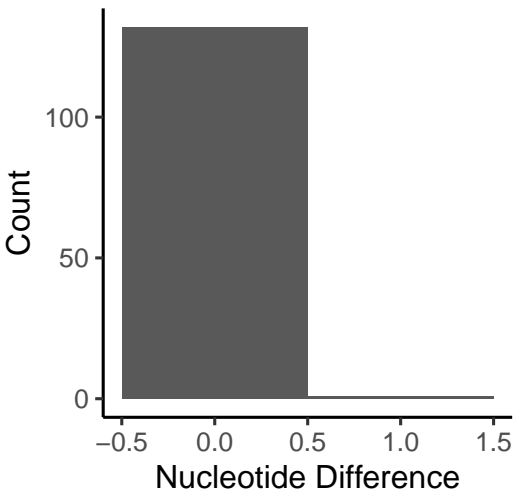
TRBV6-1\*ap01

3847 sequences assigned  
3570 (92.8%) exact matches, in which:  
3503 unique CDR3  
13 unique J



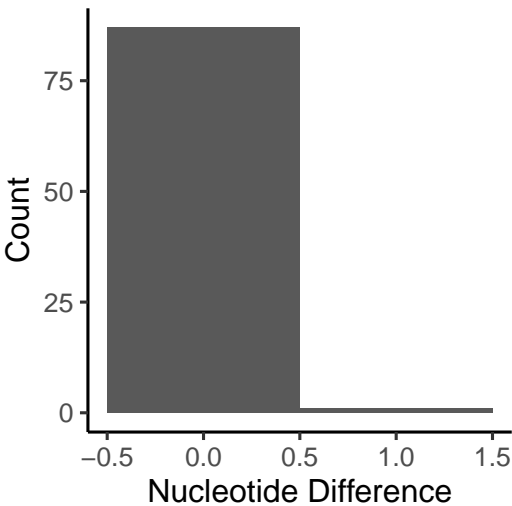
TRBV6-8\*ap01

133 sequences assigned  
132 (99.2%) exact matches, in which:  
132 unique CDR3  
13 unique J



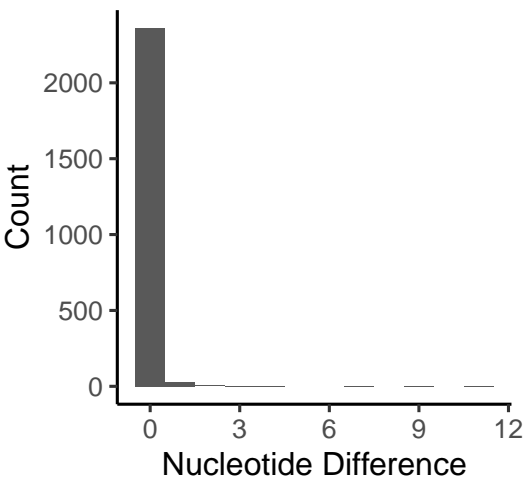
TRBV5-7\*ap01

88 sequences assigned  
87 (98.9%) exact matches, in which:  
85 unique CDR3  
13 unique J



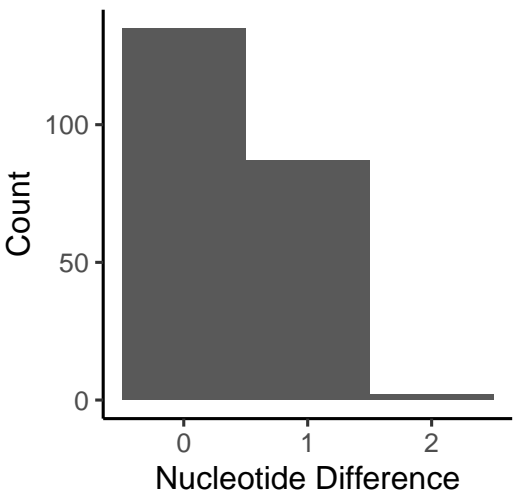
TRBV6-4\*ap01

2400 sequences assigned  
2361 (98.4%) exact matches, in which:  
2324 unique CDR3  
13 unique J



TRBV6-9\*ap01

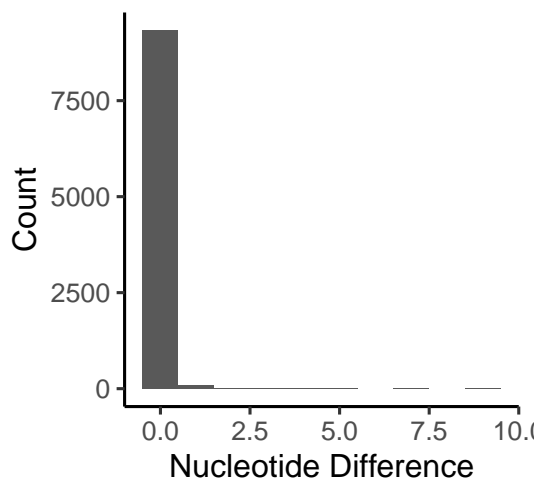
224 sequences assigned  
135 (60.3%) exact matches, in which:  
133 unique CDR3  
12 unique J





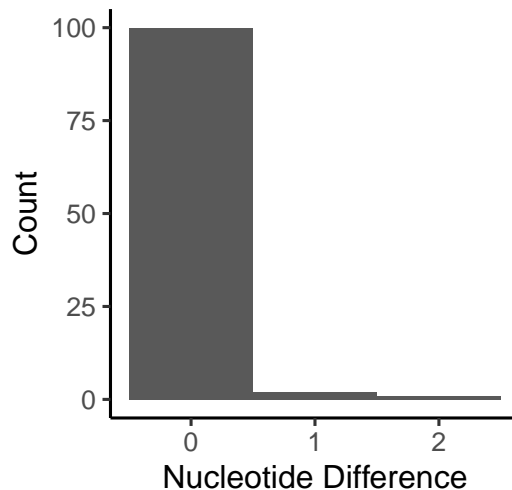
### TRBV6-23\*ap01

9437 sequences assigned  
9329 (98.9%) exact matches, in which:  
9112 unique CDR3  
13 unique J



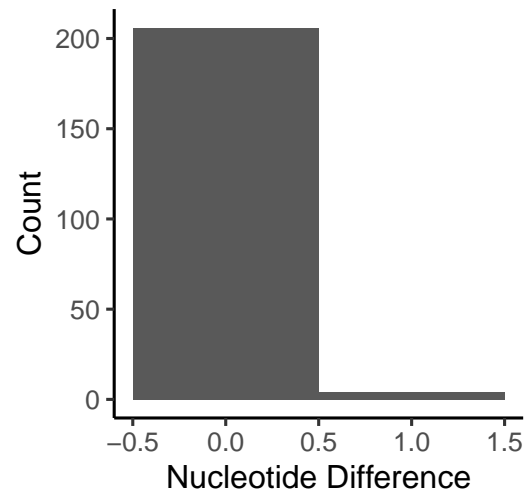
### TRBV7-1\*ap01\_G291C\_

103 sequences assigned  
100 (97.1%) exact matches, in which:  
98 unique CDR3  
12 unique J



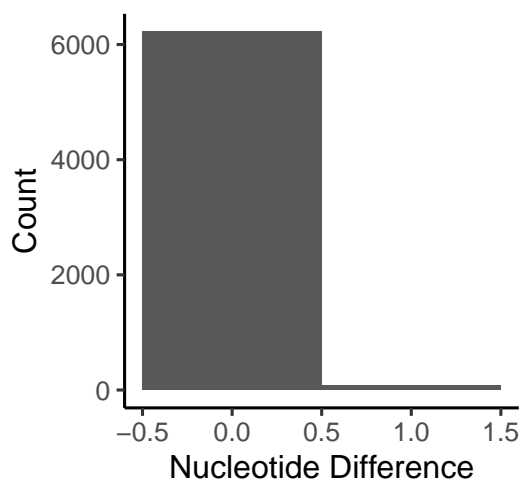
### TRBV7-4\*ap01

210 sequences assigned  
206 (98.1%) exact matches, in which:  
203 unique CDR3  
13 unique J



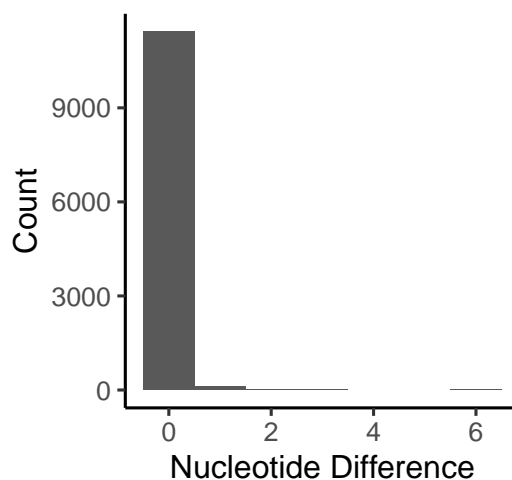
### TRBV6-56\*ap01

6306 sequences assigned  
6222 (98.7%) exact matches, in which:  
6074 unique CDR3  
13 unique J



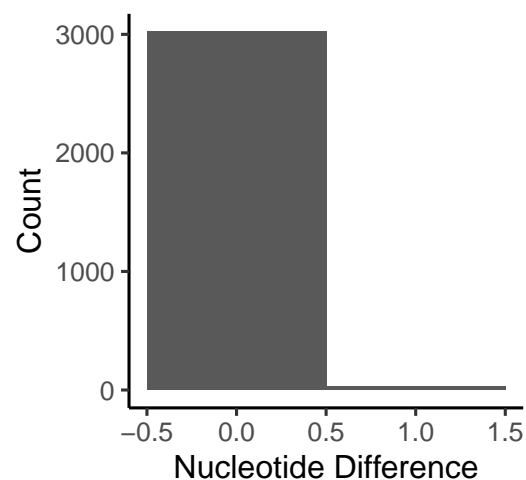
### TRBV7-2\*ap01

11548 sequences assigned  
11428 (99%) exact matches, in which:  
11250 unique CDR3  
13 unique J



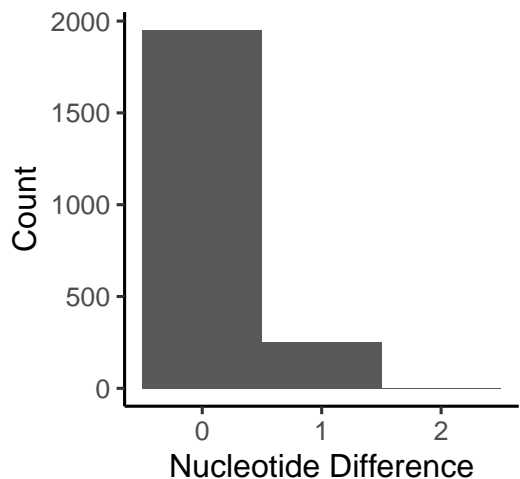
### TRBV7-6\*ap01

3049 sequences assigned  
3022 (99.1%) exact matches, in which:  
2956 unique CDR3  
13 unique J



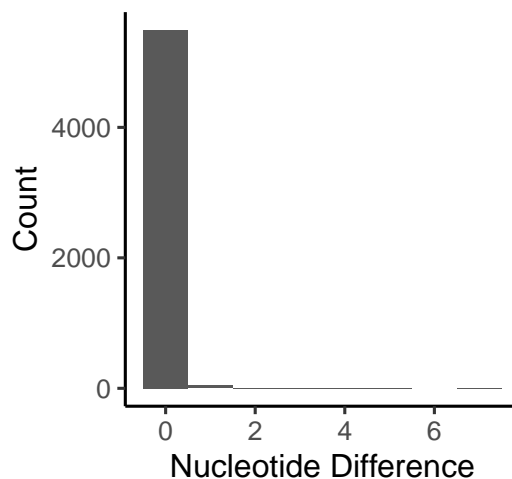
### TRBV6-56\*ap02

2205 sequences assigned  
1951 (88.5%) exact matches, in which:  
1911 unique CDR3  
13 unique J



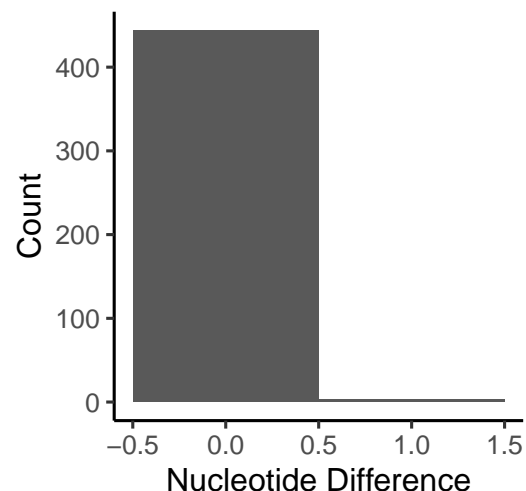
### TRBV7-3\*ap01

5543 sequences assigned  
5492 (99.1%) exact matches, in which:  
5426 unique CDR3  
13 unique J



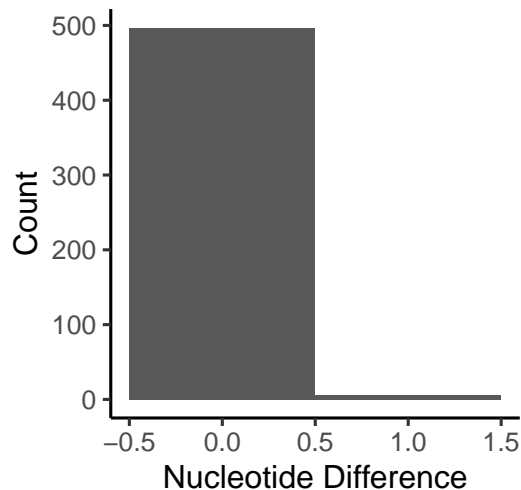
### TRBV7-7\*ap01

447 sequences assigned  
444 (99.3%) exact matches, in which:  
436 unique CDR3  
13 unique J



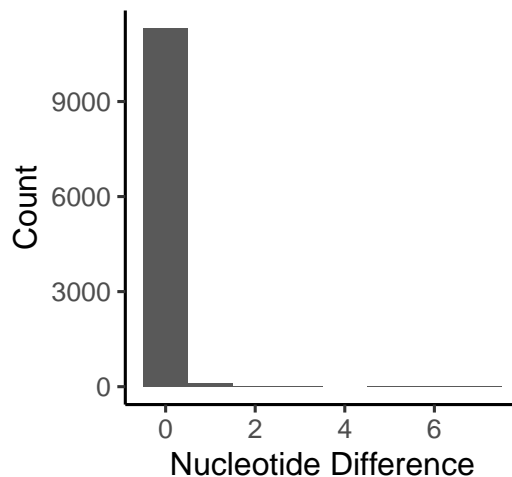
### TRBV7-7\*ap01\_C315T

503 sequences assigned  
497 (98.8%) exact matches, in which:  
490 unique CDR3  
13 unique J



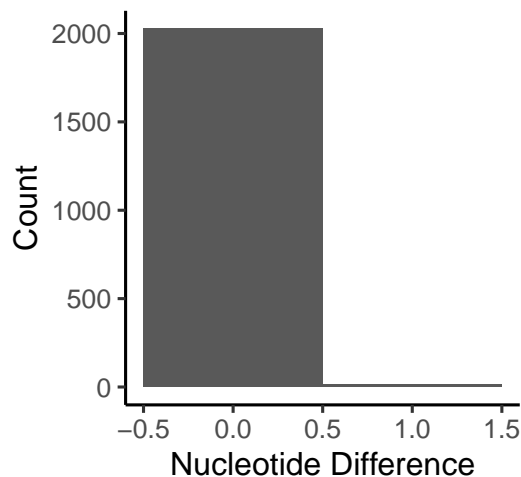
### TRBV7-9\*ap01

11412 sequences assigned  
11308 (99.1%) exact matches, in which:  
11138 unique CDR3  
13 unique J



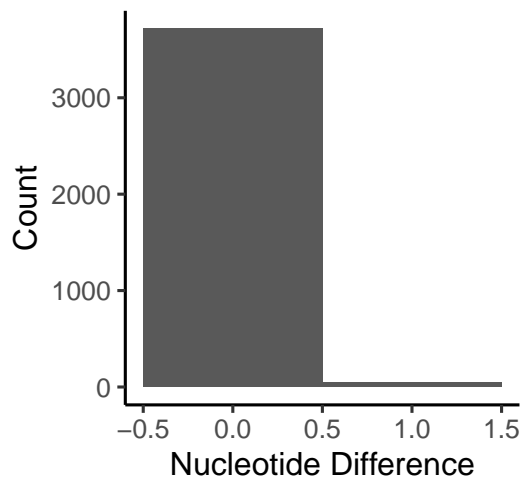
### TRBV7-8\*ap01

2043 sequences assigned  
2027 (99.2%) exact matches, in which:  
1980 unique CDR3  
13 unique J



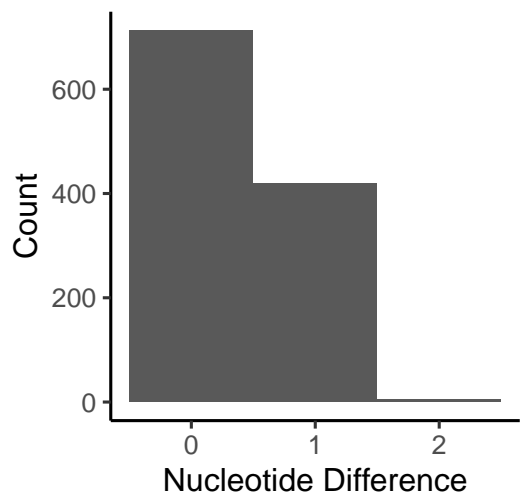
### TRBV29-1\*ap01

3758 sequences assigned  
3716 (98.9%) exact matches, in which:  
3641 unique CDR3  
13 unique J



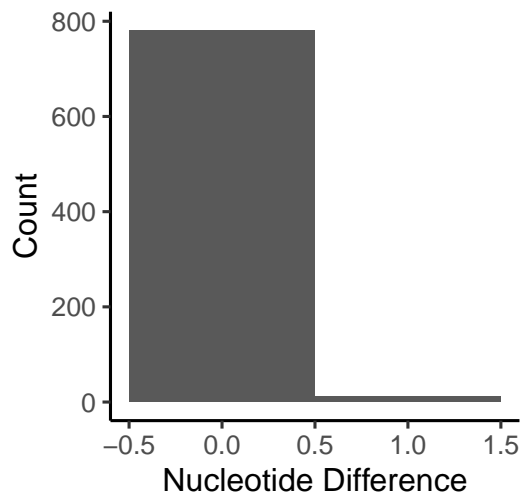
### TRBV7-8\*ap03

1136 sequences assigned  
713 (62.8%) exact matches, in which:  
697 unique CDR3  
13 unique J

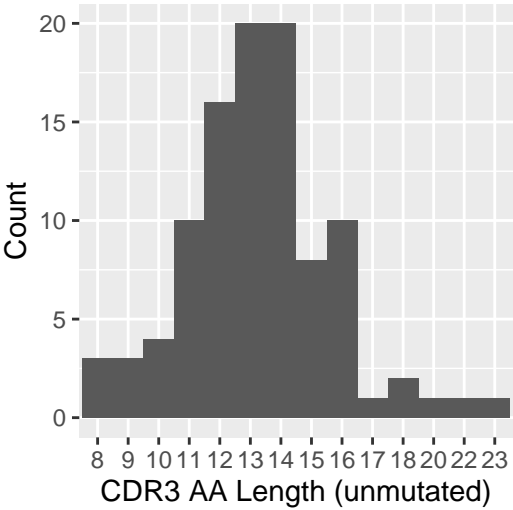


### TRBV29-1\*ap02

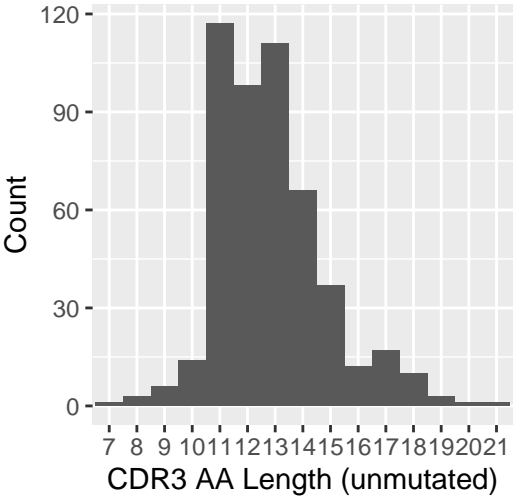
792 sequences assigned  
781 (98.6%) exact matches, in which:  
762 unique CDR3  
13 unique J



TRBV7-1\*ap01\_G291C\_T296C



TRBV7-7\*ap01\_C315T





[illegible]