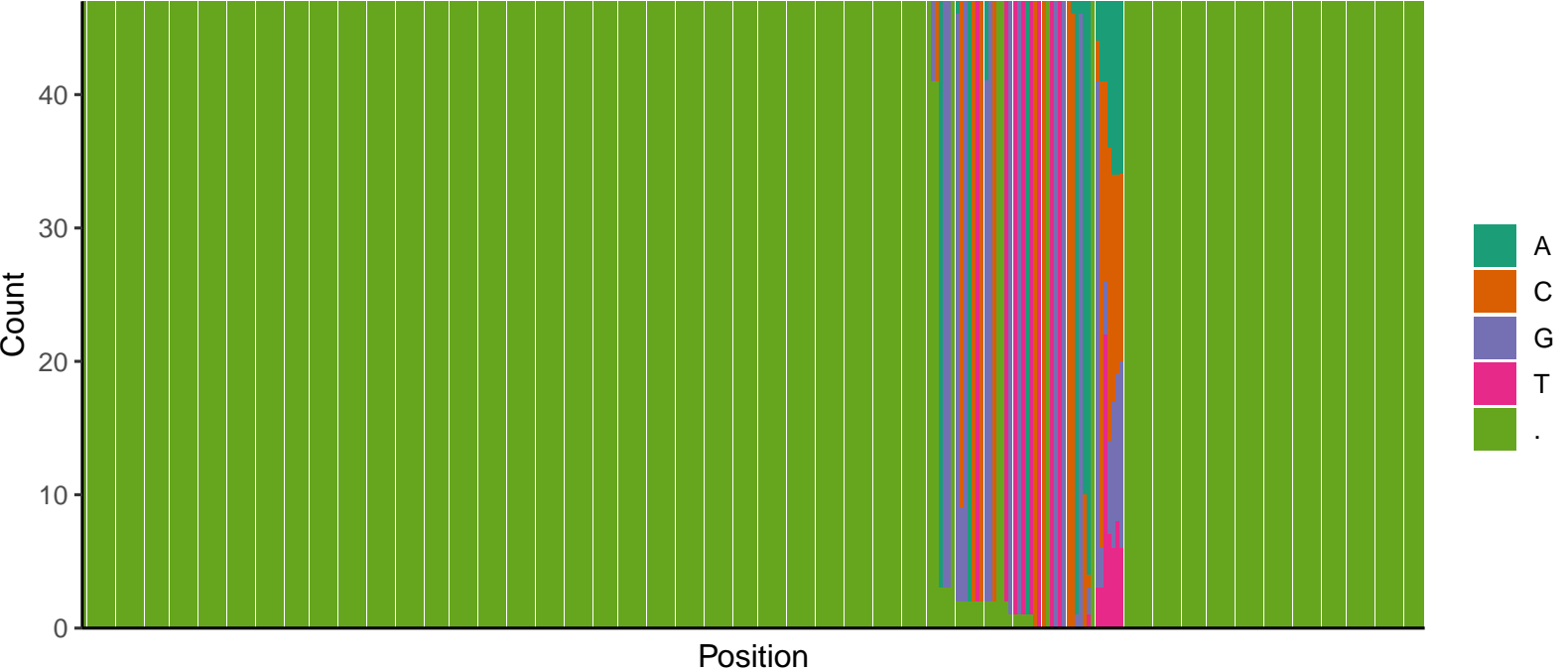


Gene TRBV23-1\*ap01\_T304C



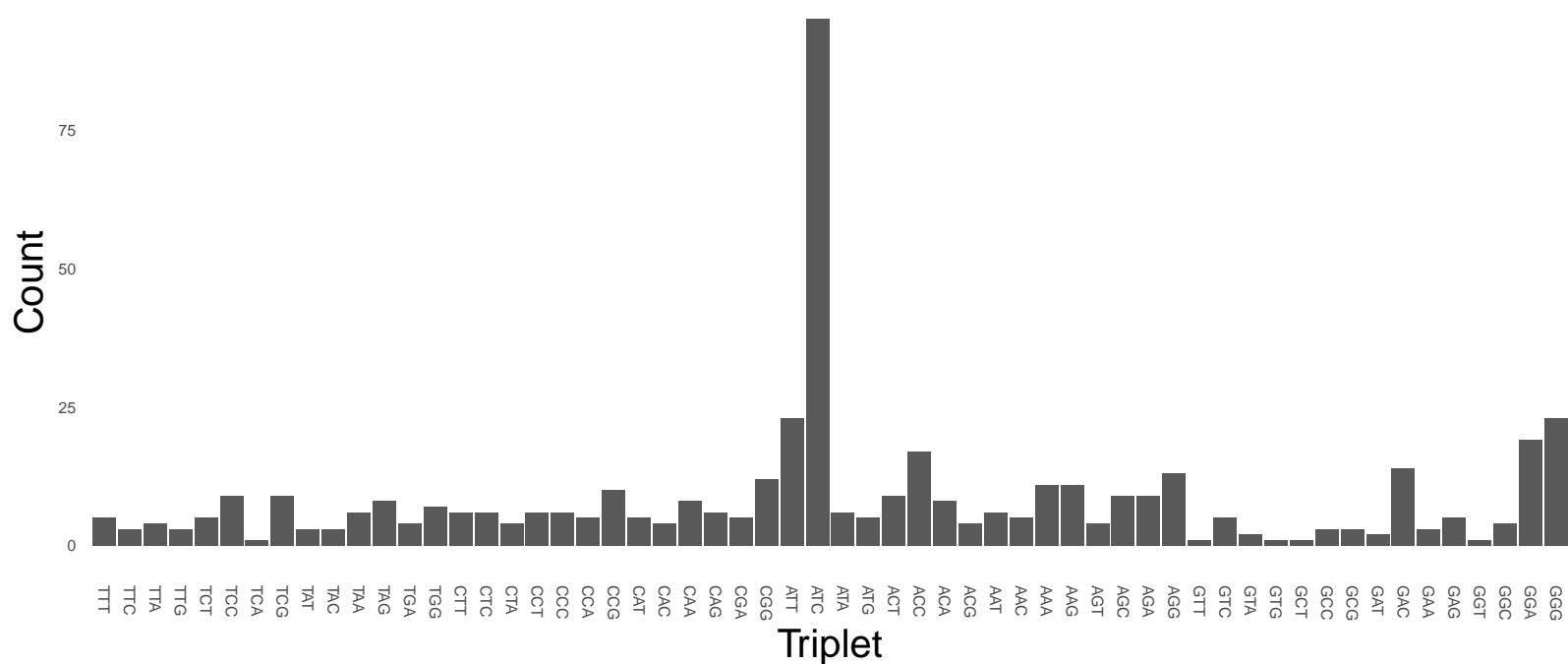
Gene TRBV7-1\*ap01\_T296C



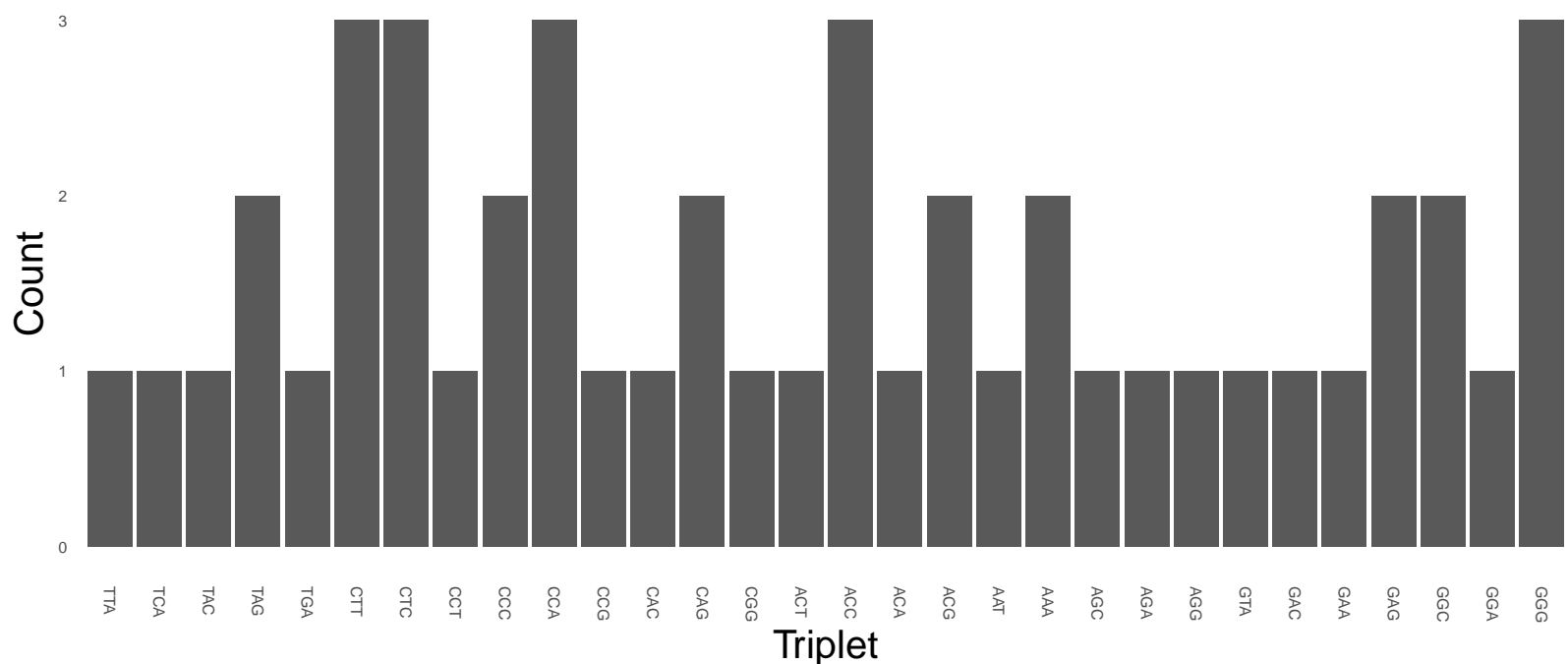
Gene TRBV7-7\*ap01\_C315T



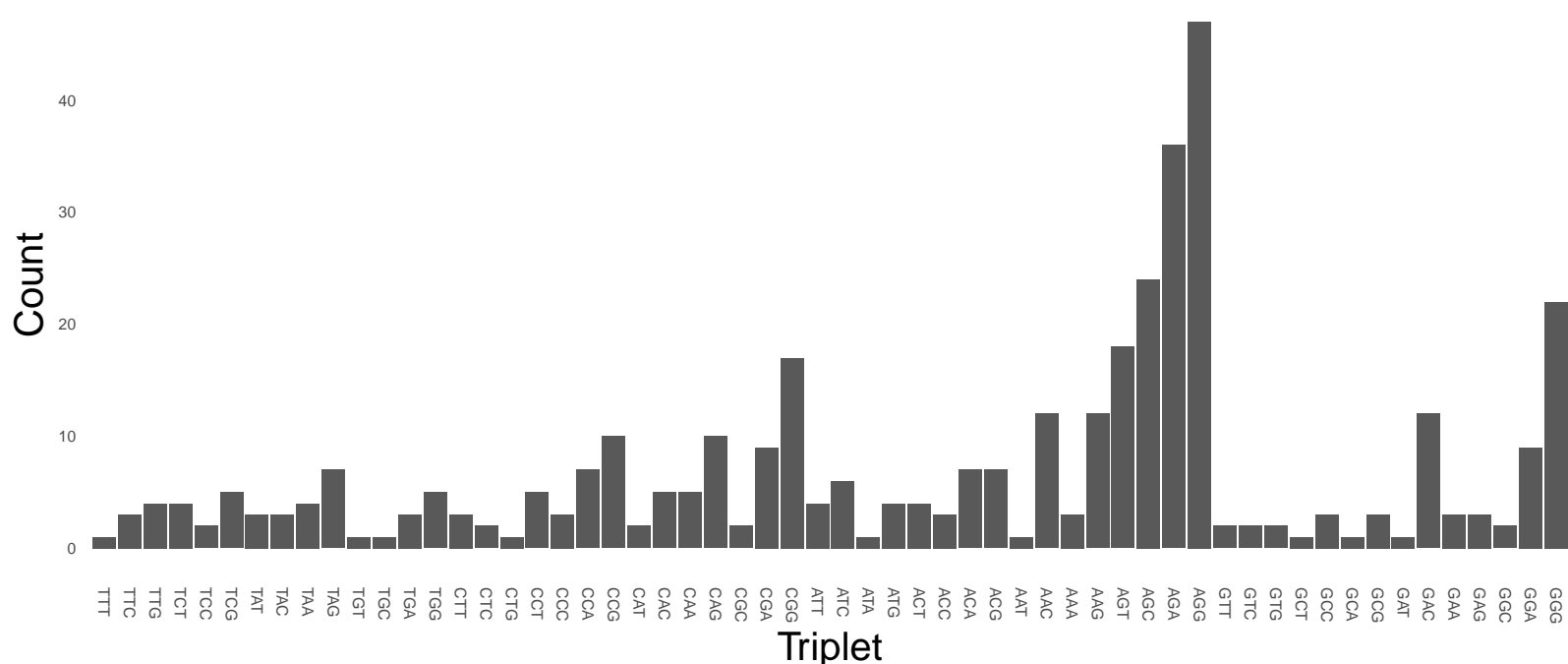
TRBV23-1\*ap01\_T304C- Final 3 nucleotides as a triplet



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

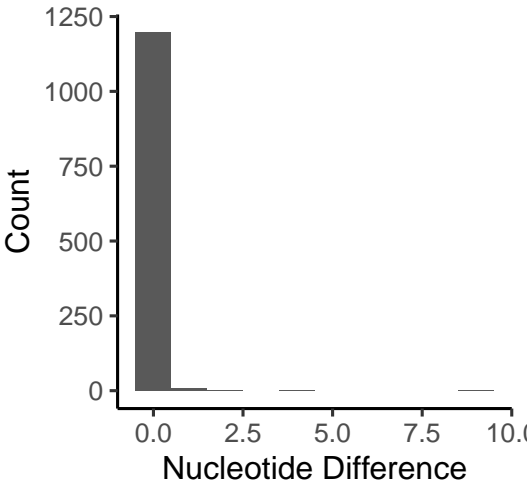


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



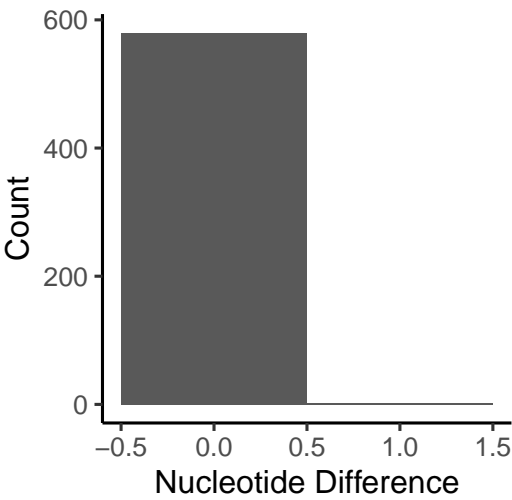
TRBV10-1\*ap01

1209 sequences assigned  
1197 (99%) exact matches, in which:  
1182 unique CDR3  
13 unique J



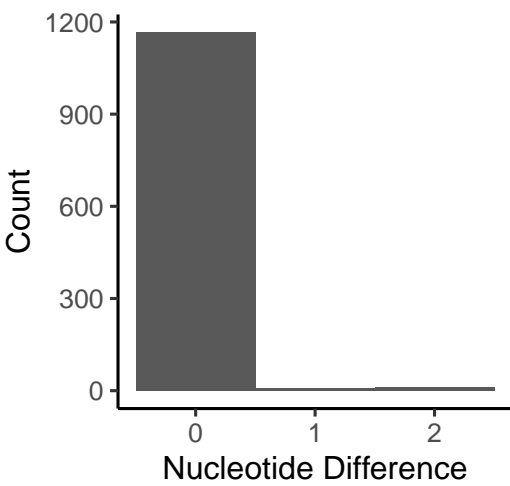
TRBV10-2\*ap01

582 sequences assigned  
580 (99.7%) exact matches, in which:  
572 unique CDR3  
13 unique J



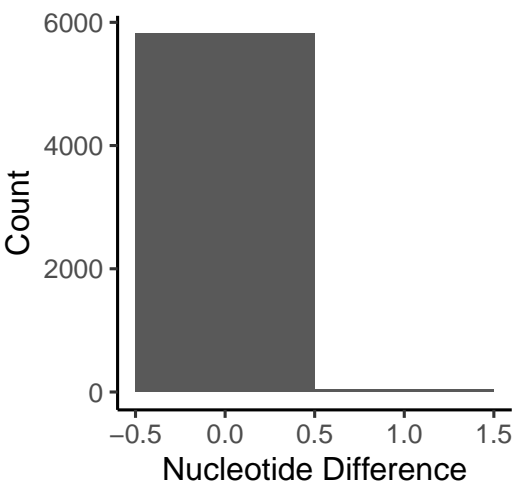
TRBV13\*ap01

1185 sequences assigned  
1166 (98.4%) exact matches, in which:  
1140 unique CDR3  
13 unique J



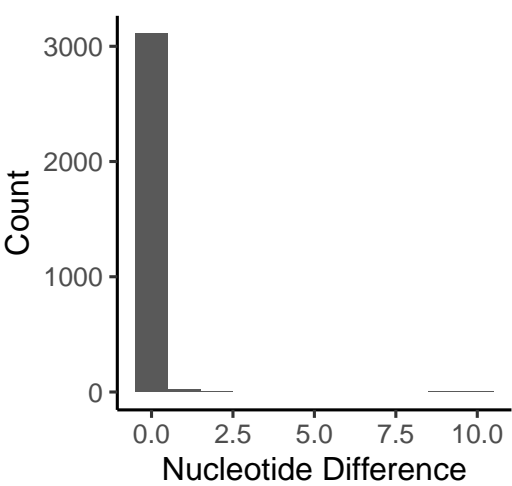
TRBV20-1\*ap01

5849 sequences assigned  
5815 (99.4%) exact matches, in which:  
5741 unique CDR3  
13 unique J



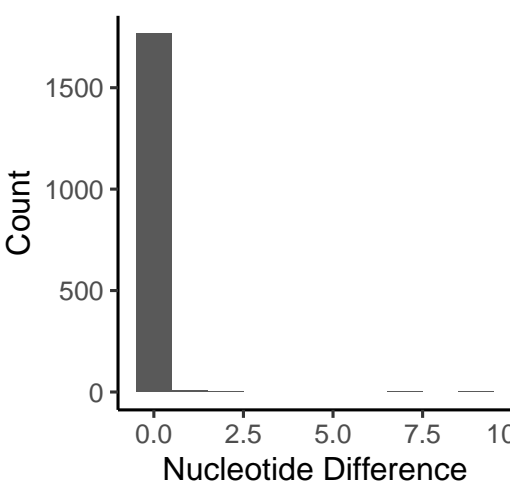
TRBV10-3\*ap01

3136 sequences assigned  
3109 (99.1%) exact matches, in which:  
3072 unique CDR3  
13 unique J



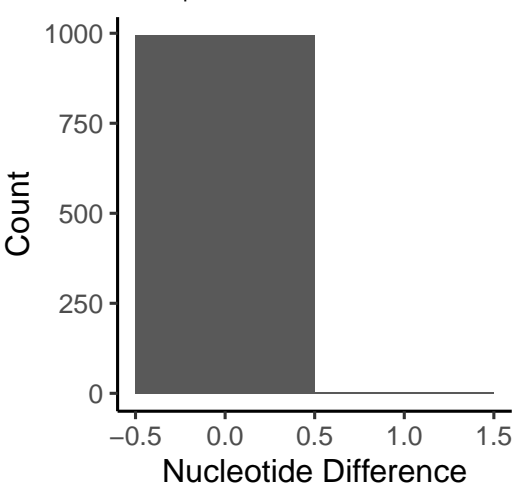
TRBV14\*ap01

1777 sequences assigned  
1766 (99.4%) exact matches, in which:  
1756 unique CDR3  
13 unique J



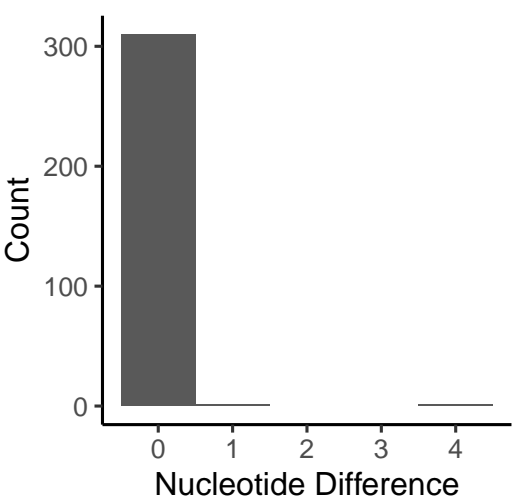
TRBV20-1\*ap02

999 sequences assigned  
995 (99.6%) exact matches, in which:  
988 unique CDR3  
13 unique J



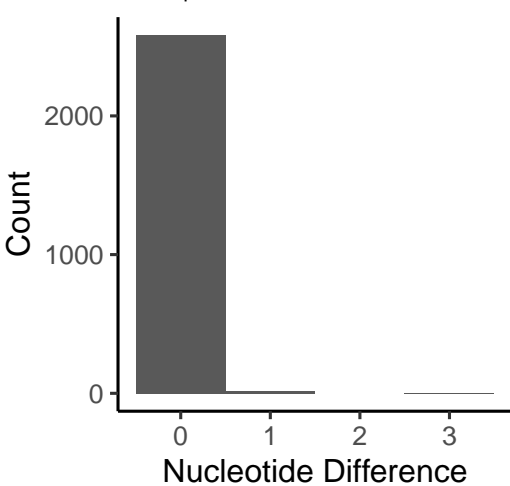
TRBV1\*ap01

312 sequences assigned  
310 (99.4%) exact matches, in which:  
306 unique CDR3  
13 unique J



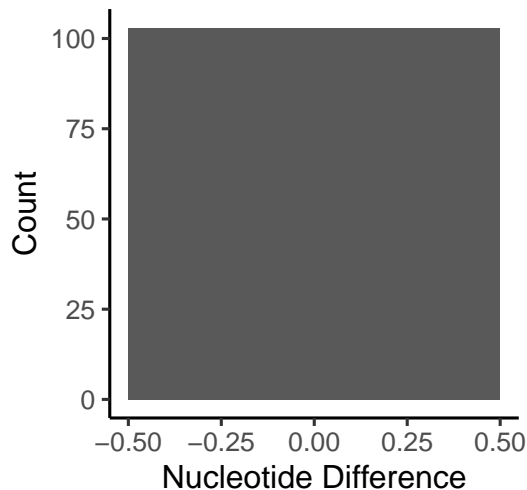
TRBV15\*ap02

2601 sequences assigned  
2583 (99.3%) exact matches, in which:  
2549 unique CDR3  
13 unique J



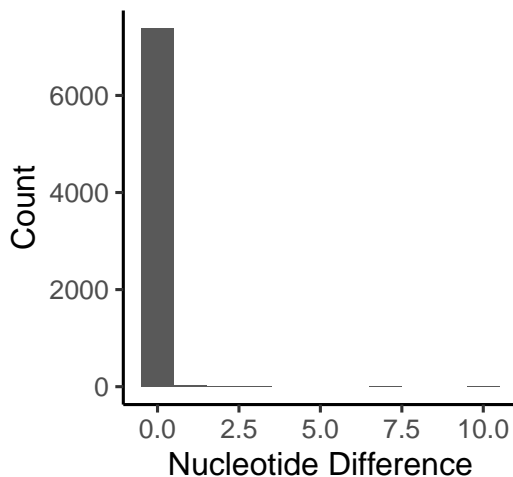
### TRBV16\*ap01

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



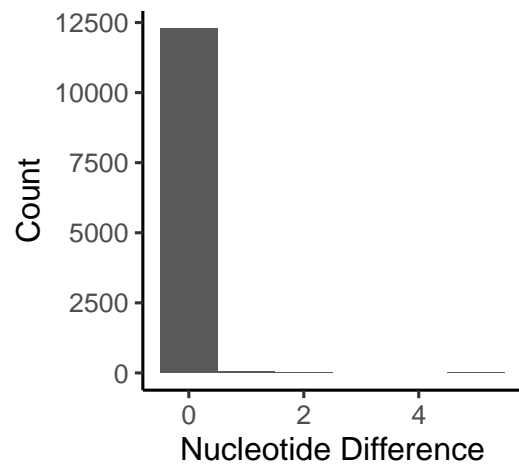
### TRBV19\*ap01

7425 sequences assigned  
7381 (99.4%) exact matches, in which:  
7347 unique CDR3  
13 unique J



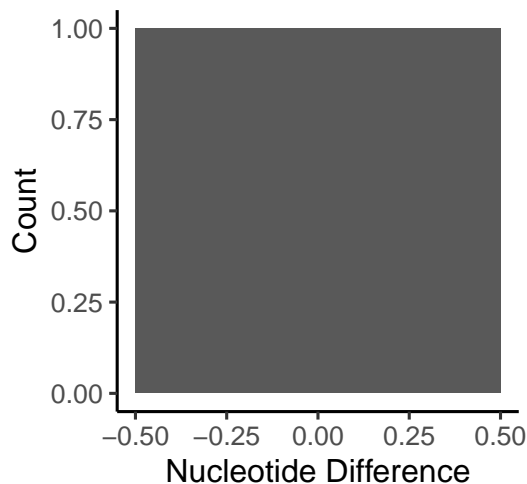
### TRBV28\*ap01

12365 sequences assigned  
12300 (99.5%) exact matches, in which:  
12212 unique CDR3  
13 unique J



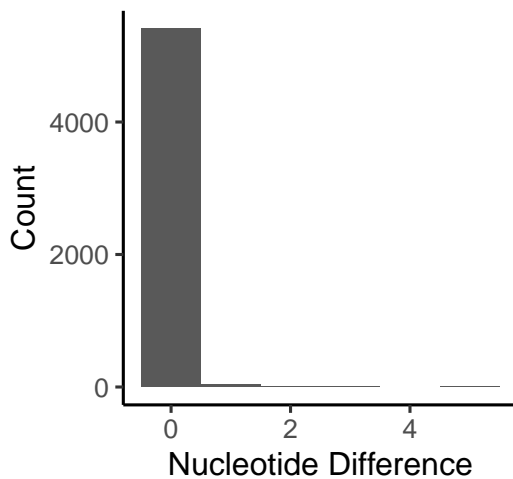
### TRBV17\*ap01

1 sequences assigned  
1 (100%) exact matches, in which:  
1 unique CDR3  
1 unique J



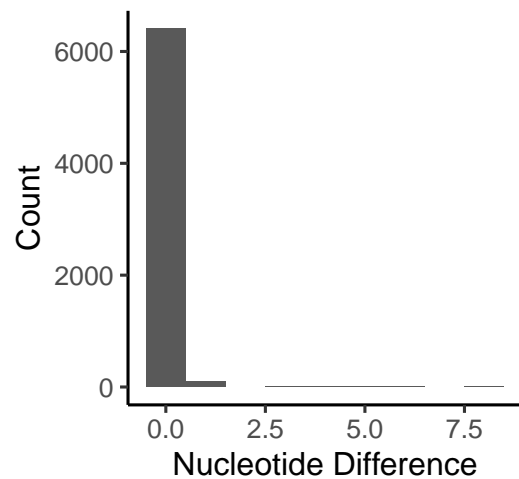
### TRBV2\*ap01

5454 sequences assigned  
5408 (99.2%) exact matches, in which:  
5334 unique CDR3  
13 unique J



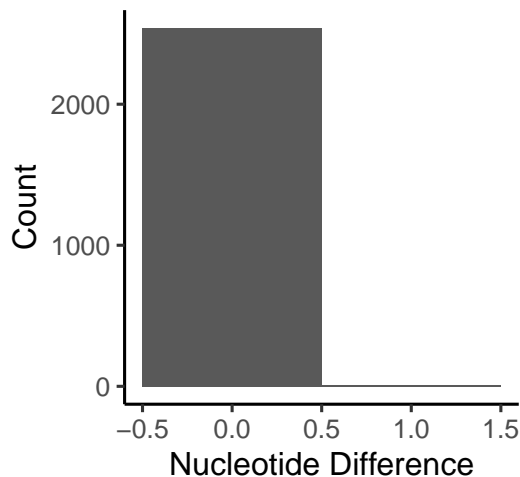
### TRBV30\*ap01

6504 sequences assigned  
6407 (98.5%) exact matches, in which:  
6233 unique CDR3  
13 unique J



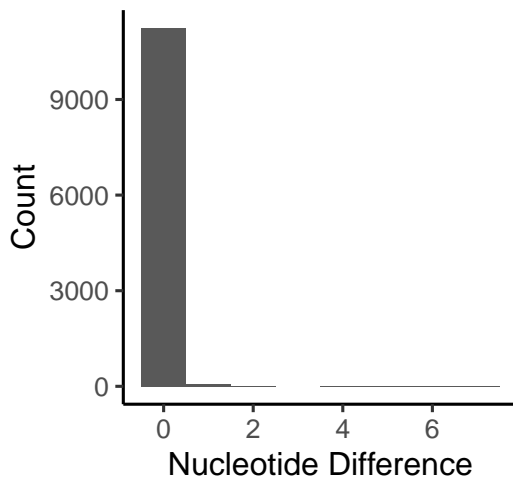
### TRBV18\*ap01

2549 sequences assigned  
2540 (99.6%) exact matches, in which:  
2524 unique CDR3  
13 unique J



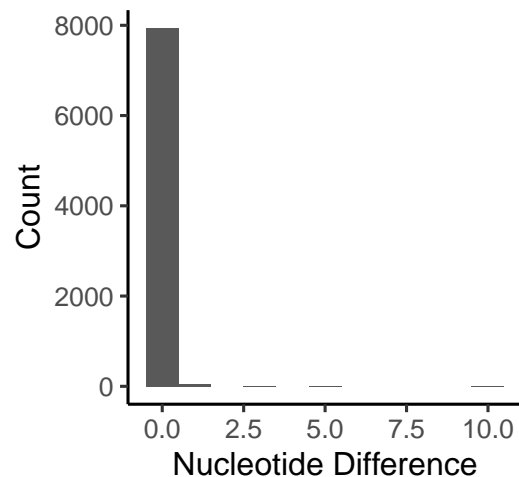
### TRBV27\*ap01

11334 sequences assigned  
11242 (99.2%) exact matches, in which:  
11070 unique CDR3  
13 unique J



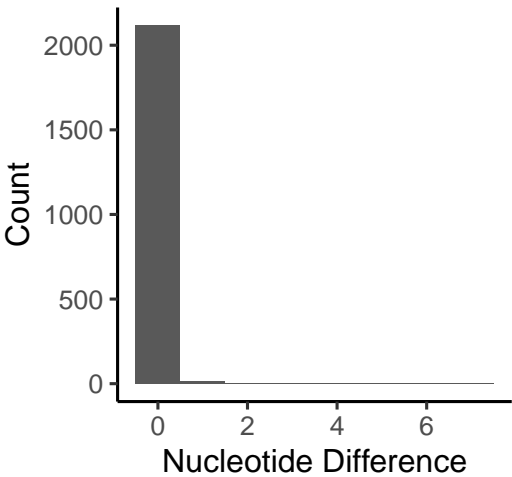
### TRBV9\*ap01

7990 sequences assigned  
7939 (99.4%) exact matches, in which:  
7872 unique CDR3  
13 unique J



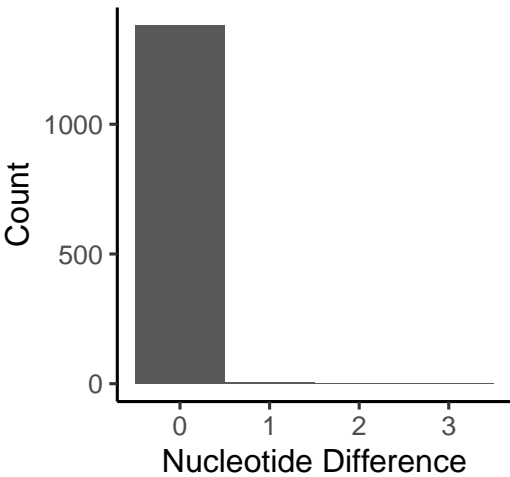
TRBV21-1\*ap01

2143 sequences assigned  
2117 (98.8%) exact matches, in which:  
2108 unique CDR3  
13 unique J



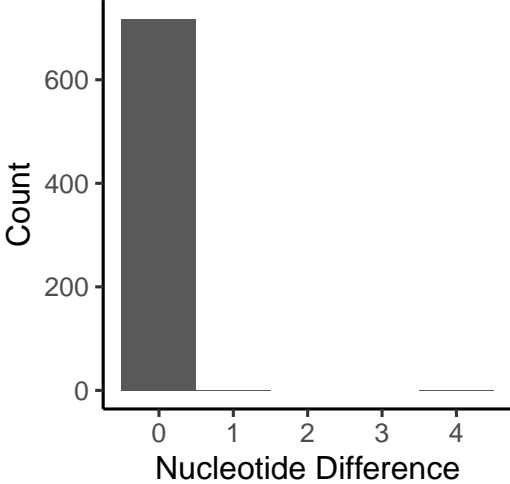
TRBV11-3\*ap01

1391 sequences assigned  
1381 (99.3%) exact matches, in which:  
1375 unique CDR3  
13 unique J



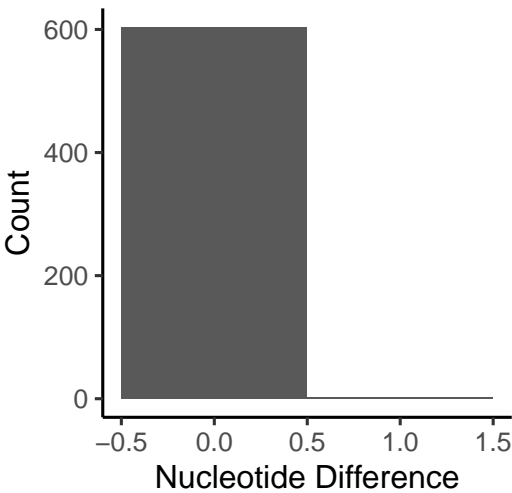
TRBV12-5\*ap01

720 sequences assigned  
718 (99.7%) exact matches, in which:  
711 unique CDR3  
13 unique J



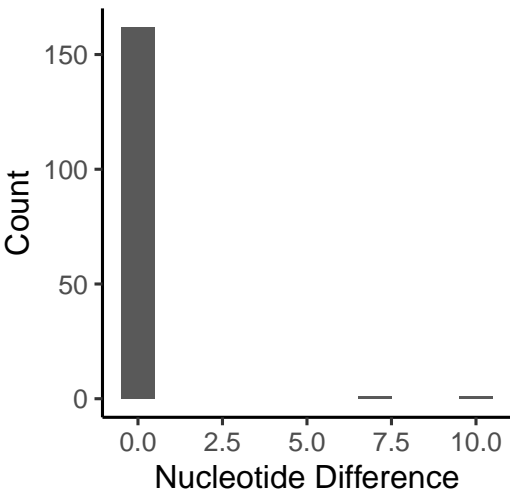
TRBV11-1\*ap01

606 sequences assigned  
604 (99.7%) exact matches, in which:  
600 unique CDR3  
13 unique J



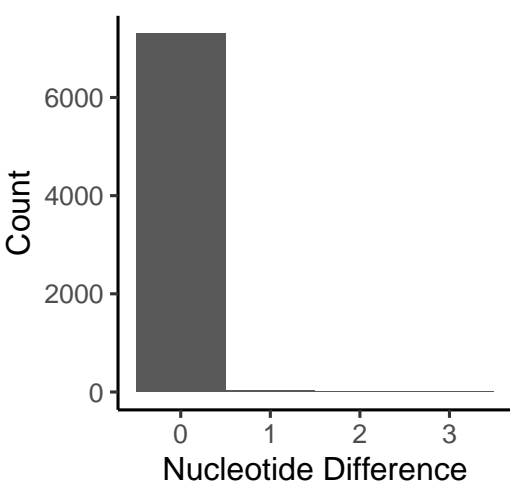
TRBV12-1\*ap01

164 sequences assigned  
162 (98.8%) exact matches, in which:  
160 unique CDR3  
12 unique J



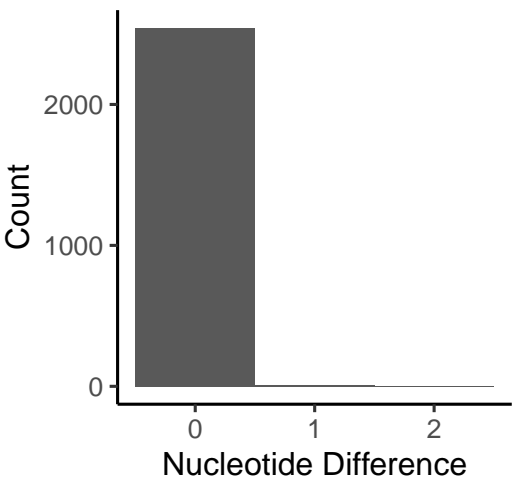
TRBV12-34\*ap01

7337 sequences assigned  
7299 (99.5%) exact matches, in which:  
7215 unique CDR3  
13 unique J



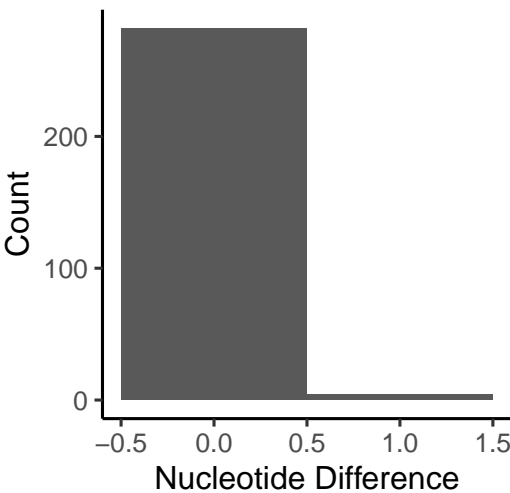
TRBV11-2\*ap01

2551 sequences assigned  
2542 (99.6%) exact matches, in which:  
2524 unique CDR3  
13 unique J



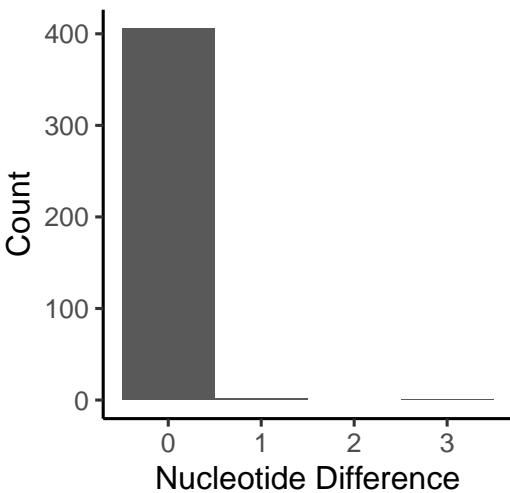
TRBV12-2\*ap01

286 sequences assigned  
282 (98.6%) exact matches, in which:  
280 unique CDR3  
13 unique J



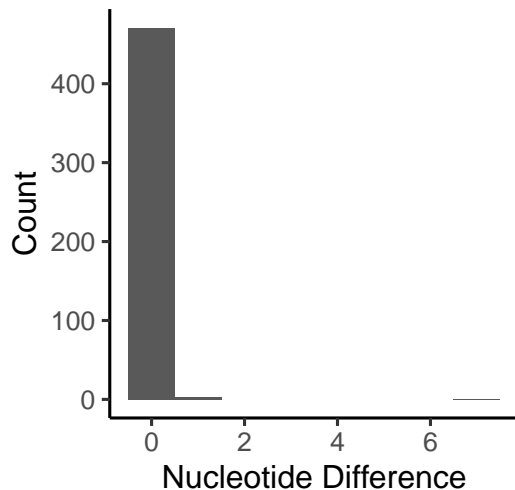
TRBV23-1\*ap01

409 sequences assigned  
406 (99.3%) exact matches, in which:  
404 unique CDR3  
13 unique J



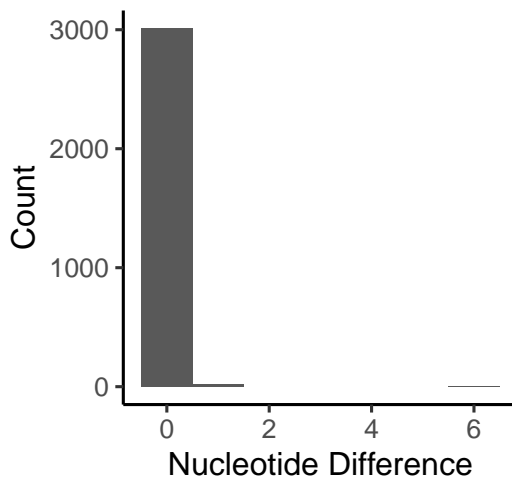
### TRBV23–1\*ap01\_T304C

475 sequences assigned  
471 (99.2%) exact matches, in which:  
467 unique CDR3  
13 unique J



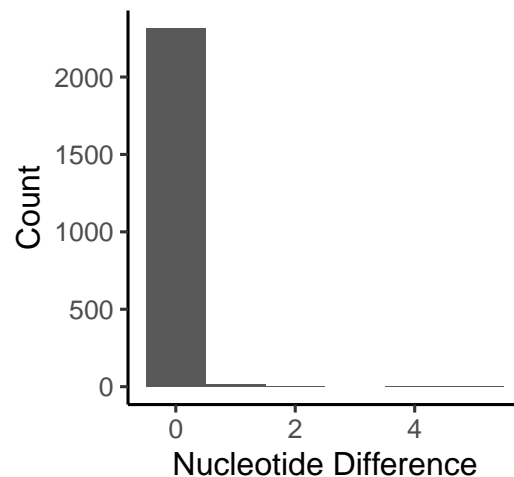
### TRBV4–1\*ap01

3037 sequences assigned  
3011 (99.1%) exact matches, in which:  
2955 unique CDR3  
13 unique J



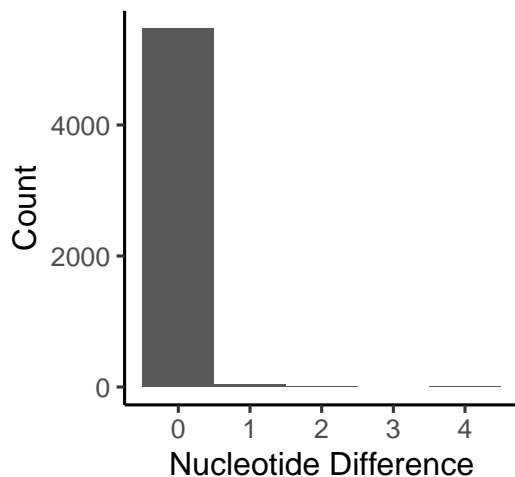
### TRBV25–1\*ap01

2335 sequences assigned  
2314 (99.1%) exact matches, in which:  
2259 unique CDR3  
13 unique J



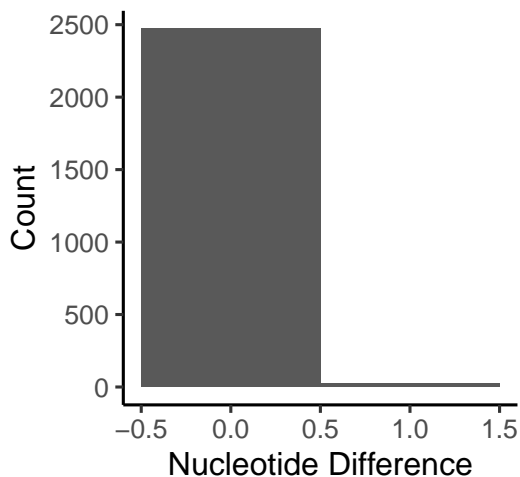
### TRBV3–12\*ap01

5507 sequences assigned  
5469 (99.3%) exact matches, in which:  
5377 unique CDR3  
13 unique J



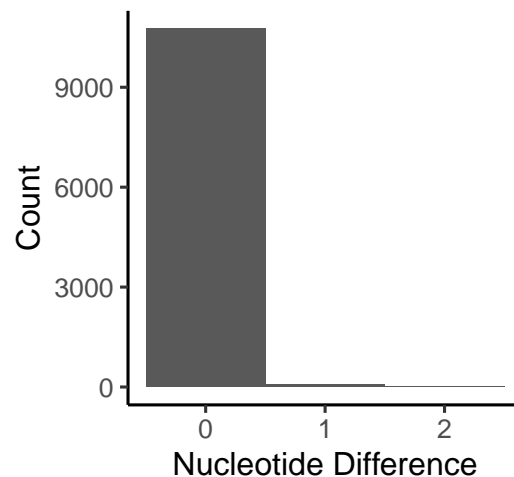
### TRBV4–2\*ap01

2495 sequences assigned  
2472 (99.1%) exact matches, in which:  
2434 unique CDR3  
13 unique J



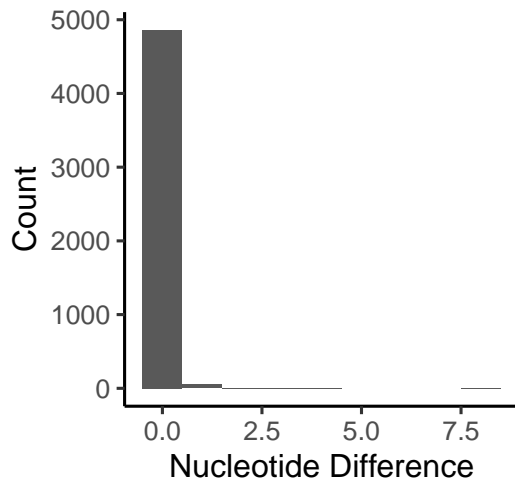
### TRBV5–1\*ap01

10846 sequences assigned  
10758 (99.2%) exact matches, in which:  
10567 unique CDR3  
13 unique J



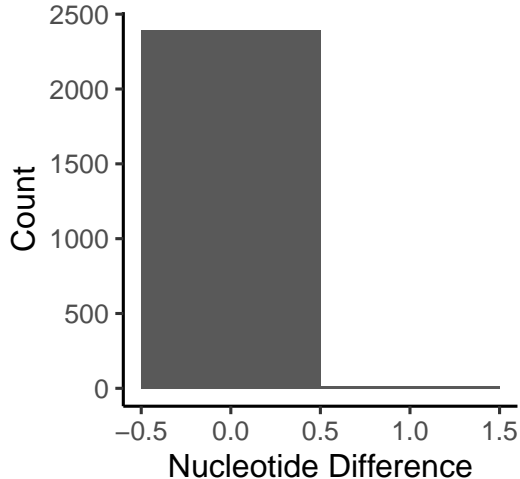
### TRBV24–1\*ap01

4917 sequences assigned  
4860 (98.8%) exact matches, in which:  
4783 unique CDR3  
13 unique J



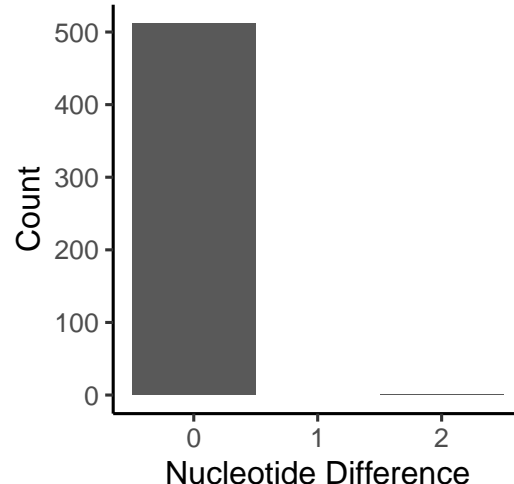
### TRBV4–3\*ap01

2409 sequences assigned  
2394 (99.4%) exact matches, in which:  
2346 unique CDR3  
13 unique J



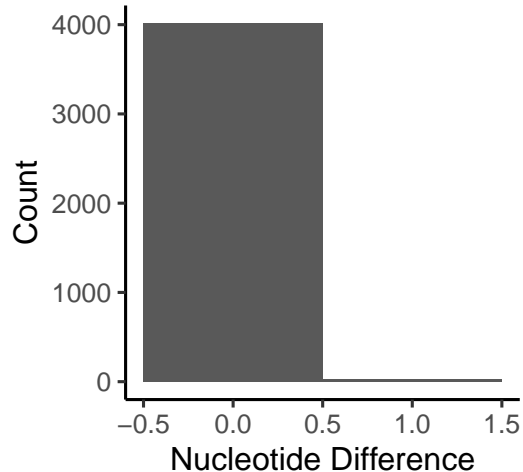
### TRBV5–3\*ap01

513 sequences assigned  
512 (99.8%) exact matches, in which:  
507 unique CDR3  
13 unique J



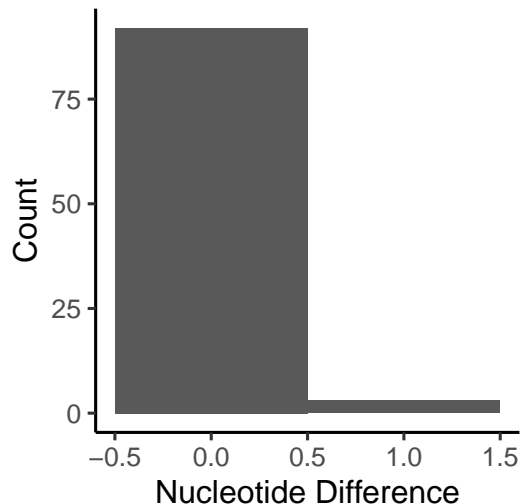
### TRBV5-4\*ap01

4045 sequences assigned  
4014 (99.2%) exact matches, in which:  
3951 unique CDR3  
13 unique J



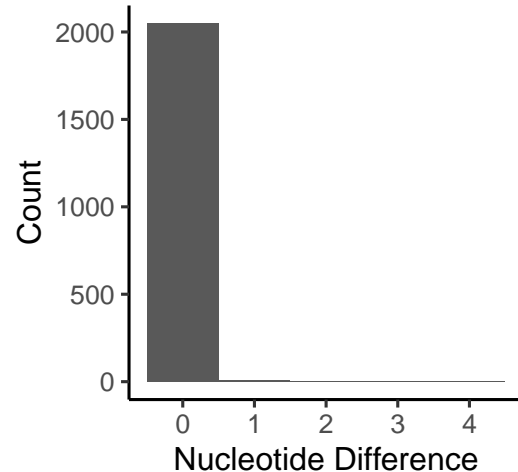
### TRBV5-7\*ap01

95 sequences assigned  
92 (96.8%) exact matches, in which:  
87 unique CDR3  
13 unique J



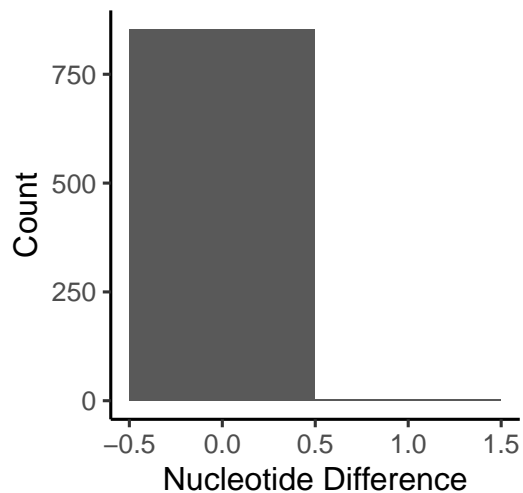
### TRBV6-4\*ap01

2064 sequences assigned  
2049 (99.3%) exact matches, in which:  
2030 unique CDR3  
13 unique J



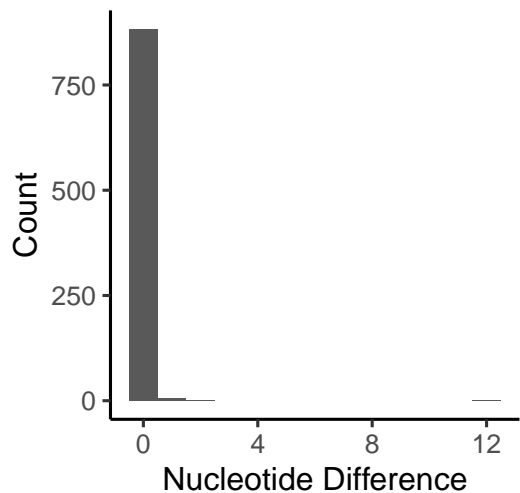
### TRBV5-5\*ap01

858 sequences assigned  
854 (99.5%) exact matches, in which:  
850 unique CDR3  
13 unique J



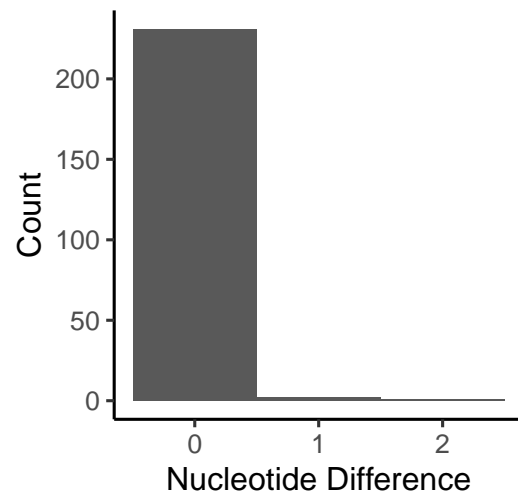
### TRBV5-8\*ap01

892 sequences assigned  
883 (99%) exact matches, in which:  
880 unique CDR3  
13 unique J



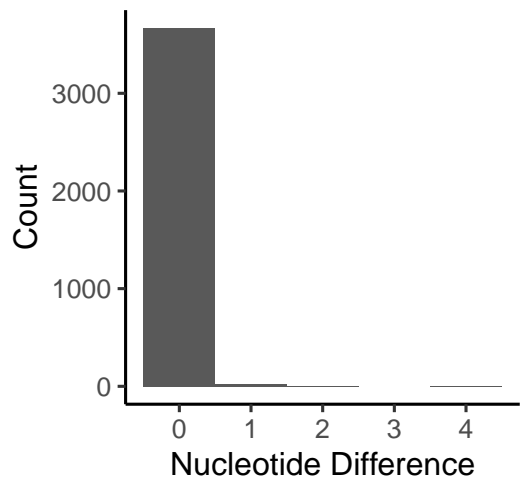
### TRBV6-7\*ap01

234 sequences assigned  
231 (98.7%) exact matches, in which:  
226 unique CDR3  
13 unique J



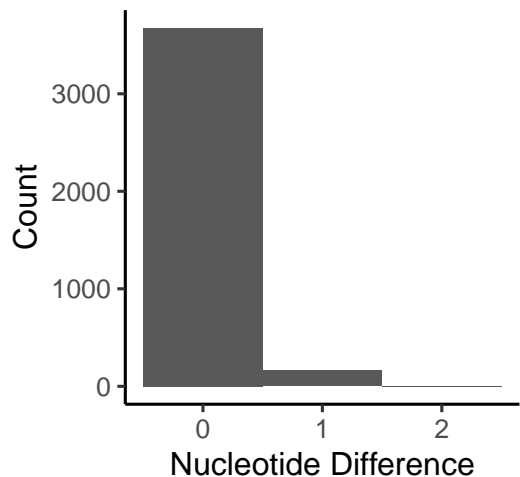
### TRBV5-6\*ap01

3695 sequences assigned  
3668 (99.3%) exact matches, in which:  
3581 unique CDR3  
13 unique J



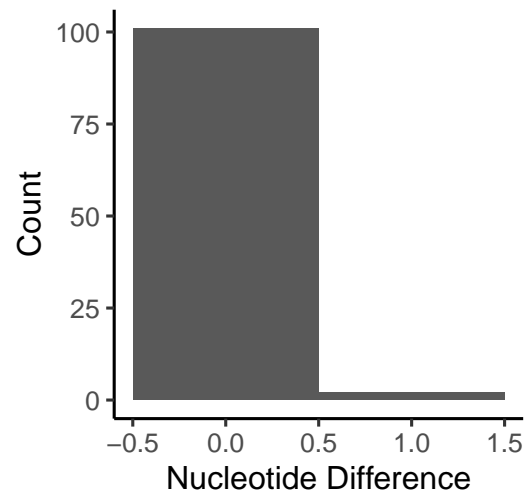
### TRBV6-1\*ap01

3838 sequences assigned  
3674 (95.7%) exact matches, in which:  
3609 unique CDR3  
13 unique J



### TRBV6-8\*ap01

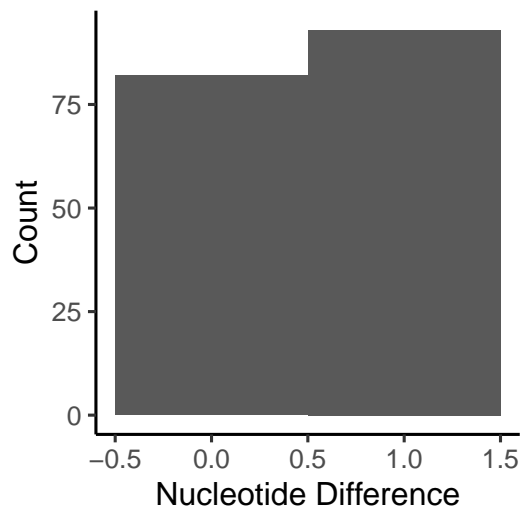
103 sequences assigned  
101 (98.1%) exact matches, in which:  
100 unique CDR3  
10 unique J





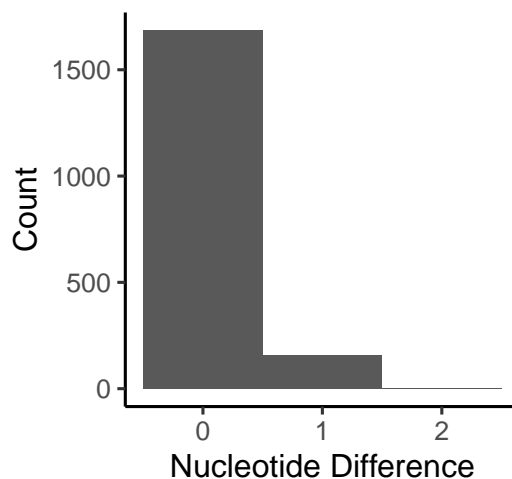
### TRBV6–9\*ap01

175 sequences assigned  
82 (46.9%) exact matches, in which:  
79 unique CDR3  
12 unique J



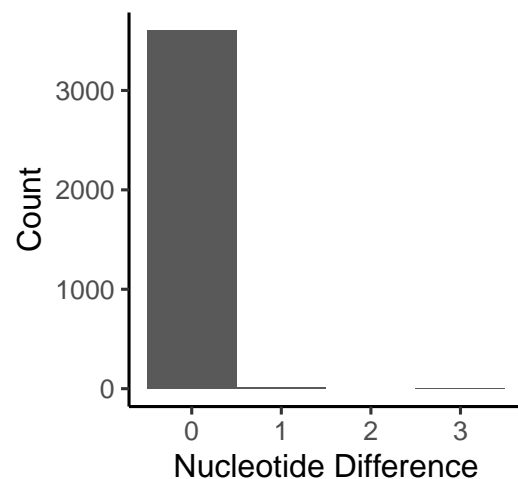
### TRBV6–56\*ap02

1843 sequences assigned  
1685 (91.4%) exact matches, in which:  
1655 unique CDR3  
13 unique J



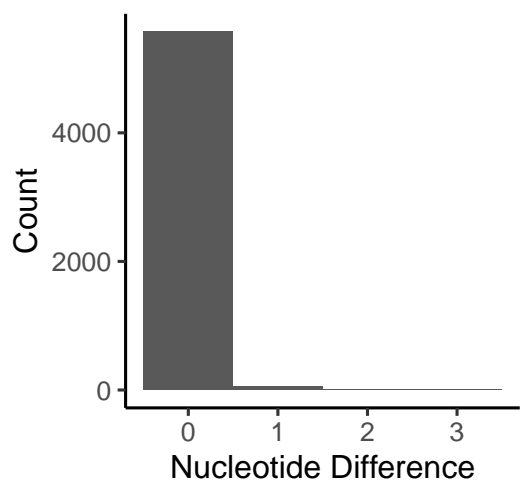
### TRBV7–3\*ap01

3622 sequences assigned  
3604 (99.5%) exact matches, in which:  
3581 unique CDR3  
13 unique J



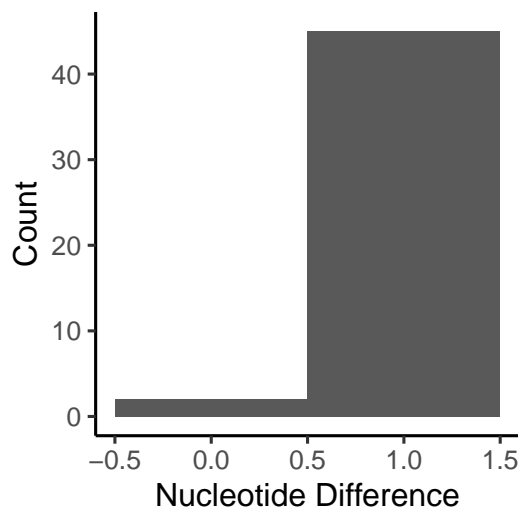
### TRBV6–23\*ap01

5627 sequences assigned  
5573 (99%) exact matches, in which:  
5449 unique CDR3  
13 unique J



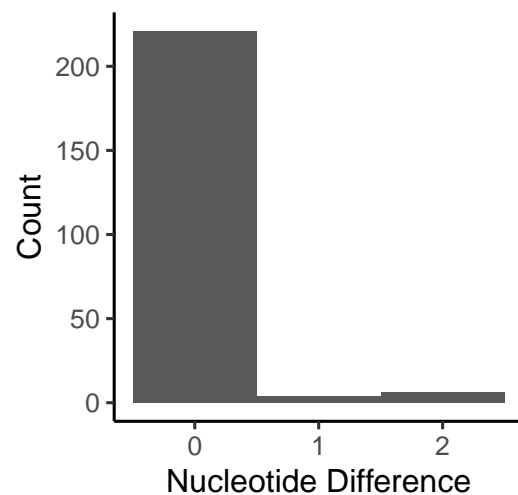
### TRBV7–1\*ap01\_T296C

47 sequences assigned  
2 (4.3%) exact matches, in which:  
2 unique CDR3  
2 unique J



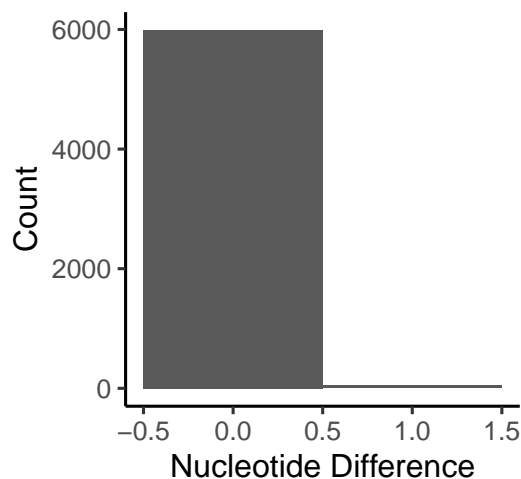
### TRBV7–4\*ap01

231 sequences assigned  
221 (95.7%) exact matches, in which:  
220 unique CDR3  
12 unique J



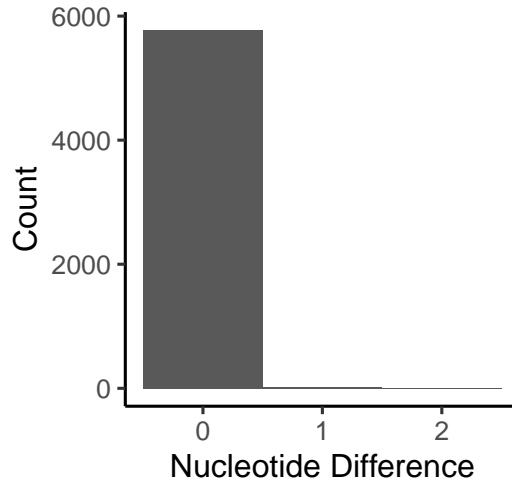
### TRBV6–56\*ap01

6038 sequences assigned  
5990 (99.2%) exact matches, in which:  
5858 unique CDR3  
13 unique J



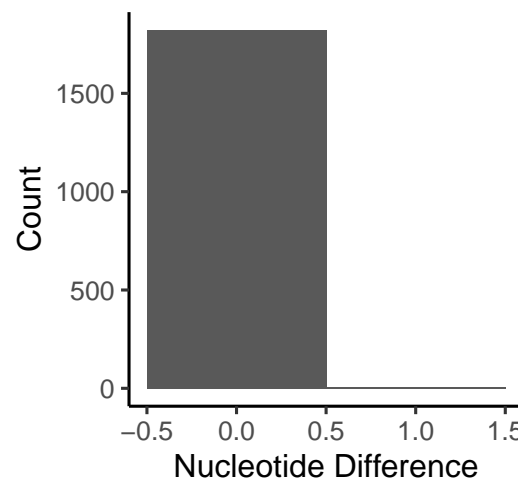
### TRBV7–2\*ap01

5801 sequences assigned  
5775 (99.6%) exact matches, in which:  
5705 unique CDR3  
13 unique J



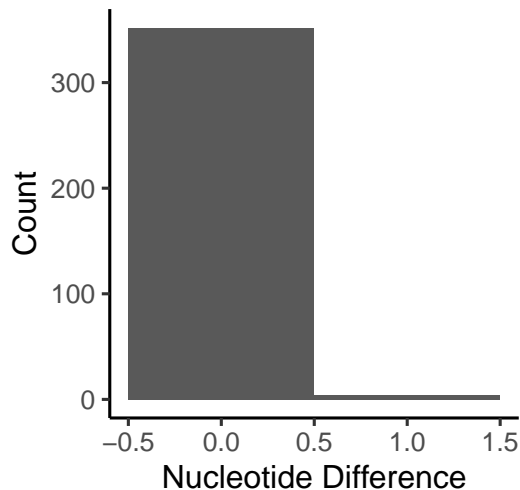
### TRBV7–6\*ap01

1829 sequences assigned  
1822 (99.6%) exact matches, in which:  
1799 unique CDR3  
13 unique J



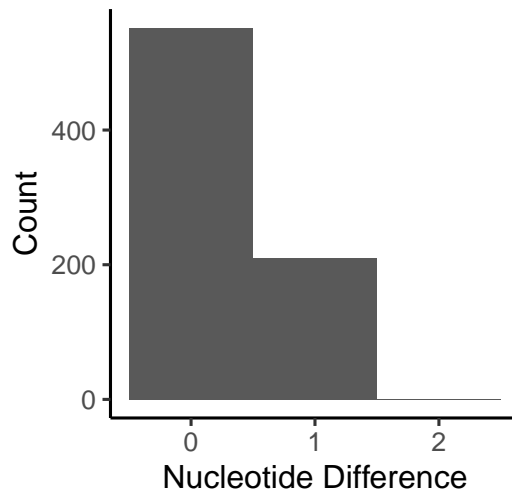
### TRBV7-7\*ap01

356 sequences assigned  
352 (98.9%) exact matches, in which:  
348 unique CDR3  
12 unique J



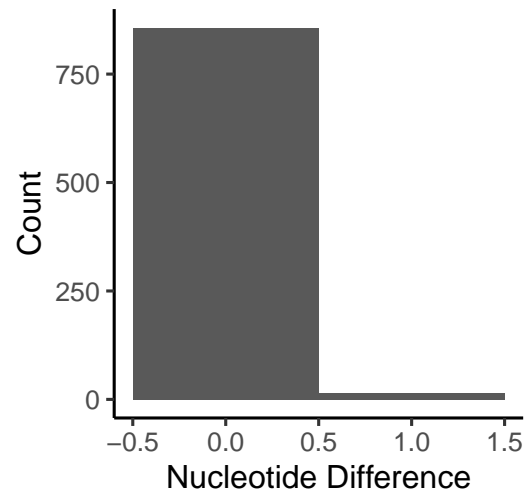
### TRBV7-8\*ap03

763 sequences assigned  
552 (72.3%) exact matches, in which:  
542 unique CDR3  
13 unique J



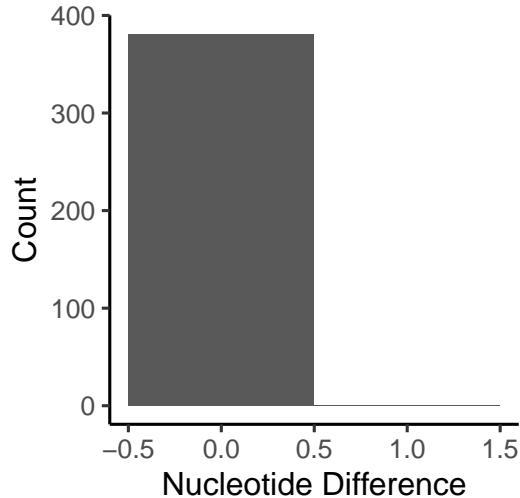
### TRBV29-1\*ap02

872 sequences assigned  
857 (98.3%) exact matches, in which:  
837 unique CDR3  
13 unique J



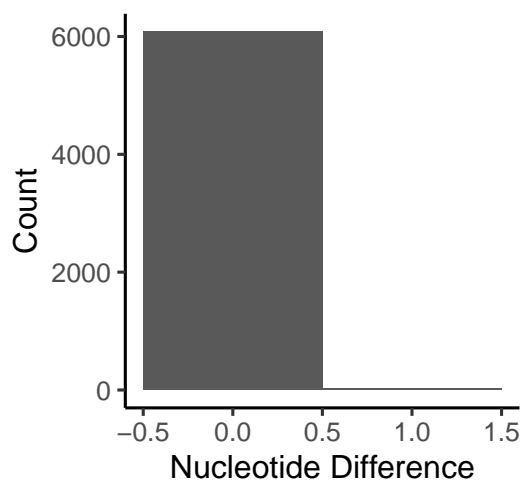
### TRBV7-7\*ap01\_C315T

382 sequences assigned  
381 (99.7%) exact matches, in which:  
378 unique CDR3  
13 unique J



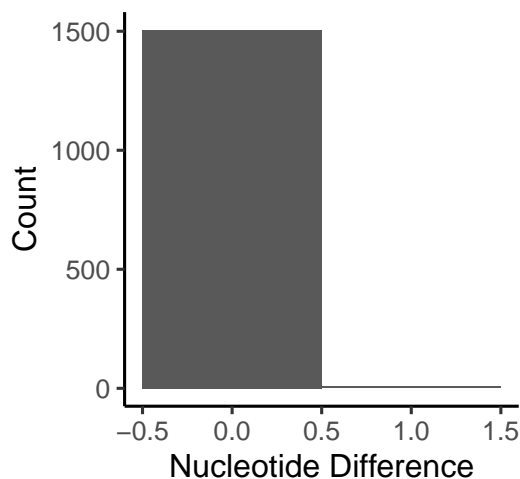
### TRBV7-9\*ap01

6110 sequences assigned  
6081 (99.5%) exact matches, in which:  
6014 unique CDR3  
13 unique J



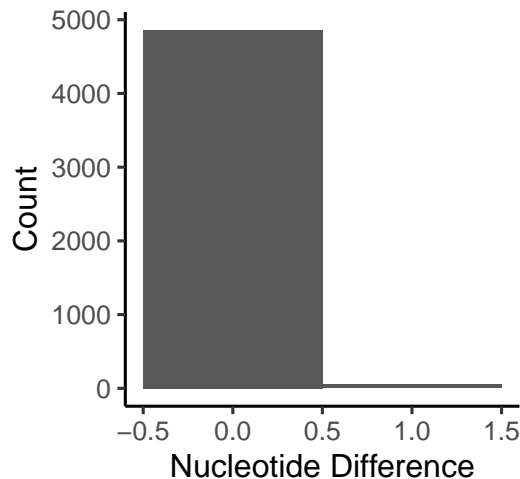
### TRBV7-8\*ap01

1512 sequences assigned  
1505 (99.5%) exact matches, in which:  
1492 unique CDR3  
13 unique J

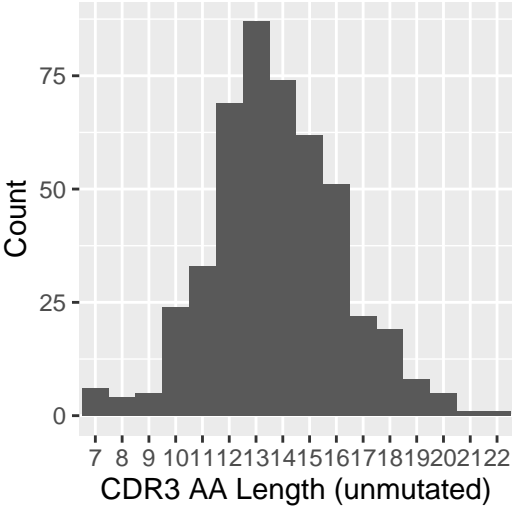


### TRBV29-1\*ap01

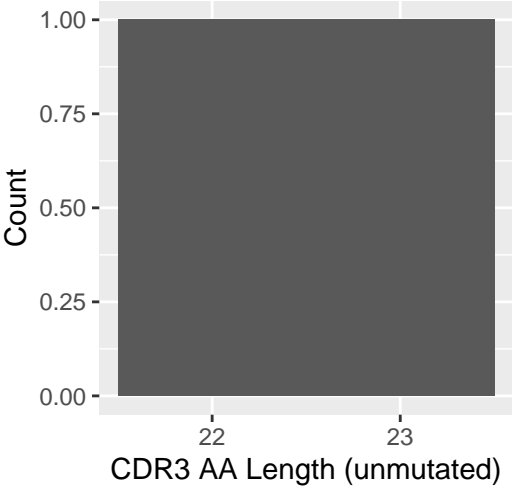
4912 sequences assigned  
4860 (98.9%) exact matches, in which:  
4705 unique CDR3  
13 unique J



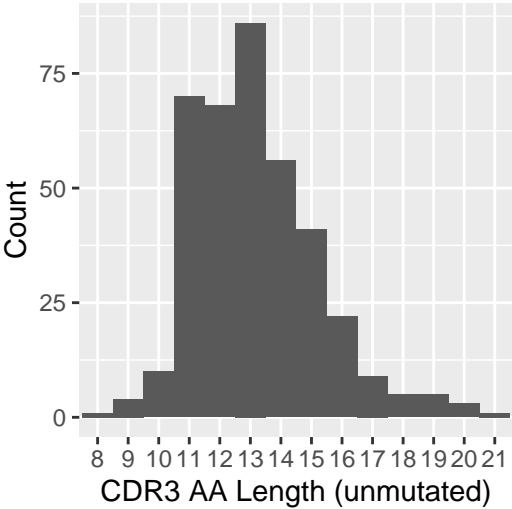
TRBV23-1\*ap01\_T304C



TRBV7-1\*ap01\_T296C



TRBV7-7\*ap01\_C315T





Warning – no inferred sequences found.