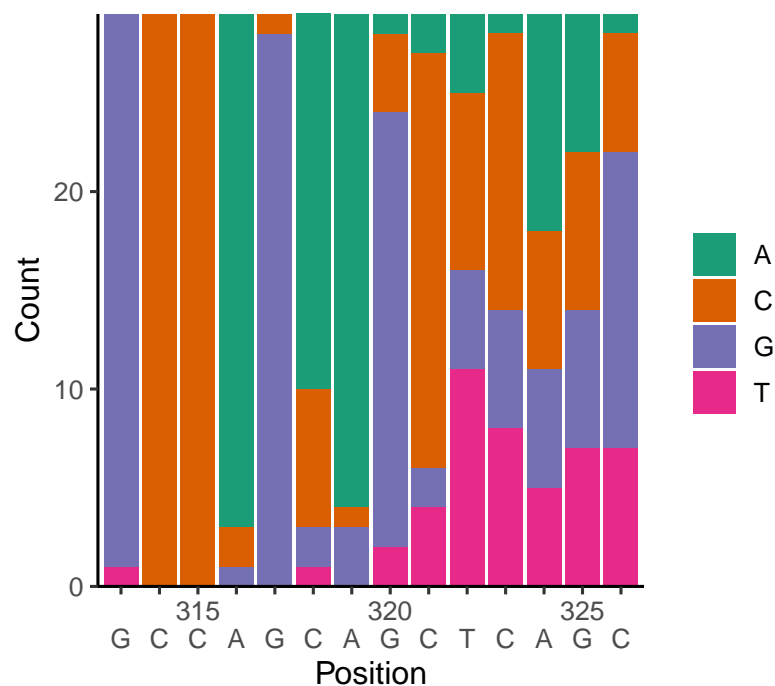
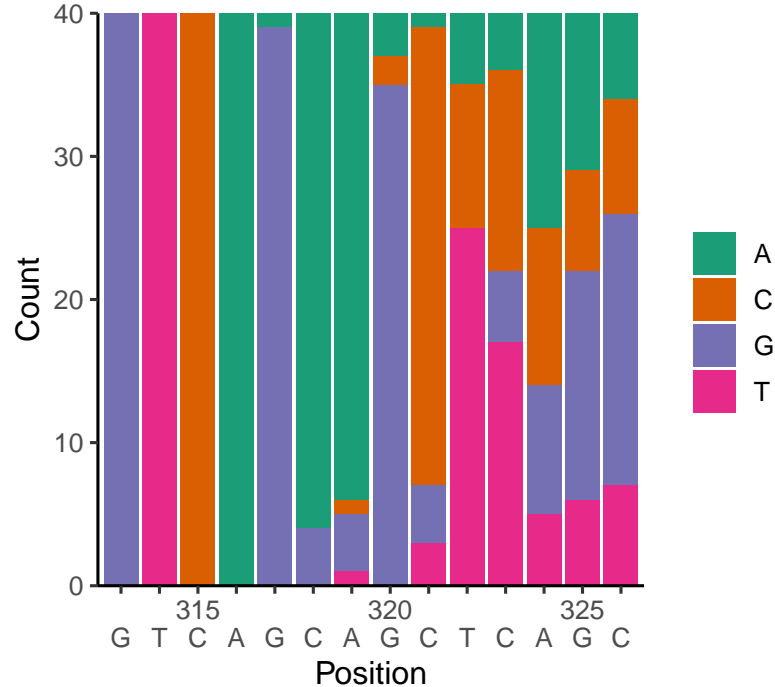


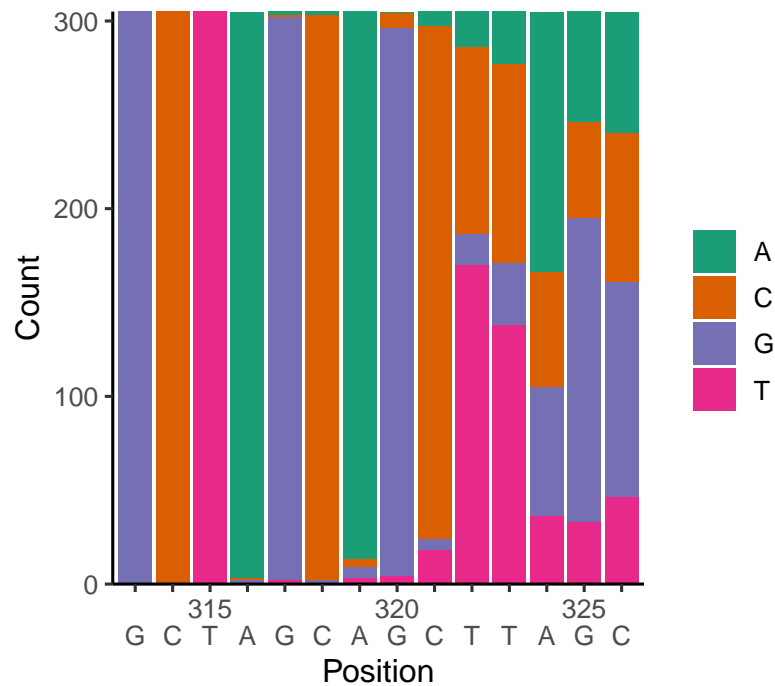
Gene TRBV7-1\*ap01\_T296C



Gene TRBV7-1\*ap01\_T296C\_C314T



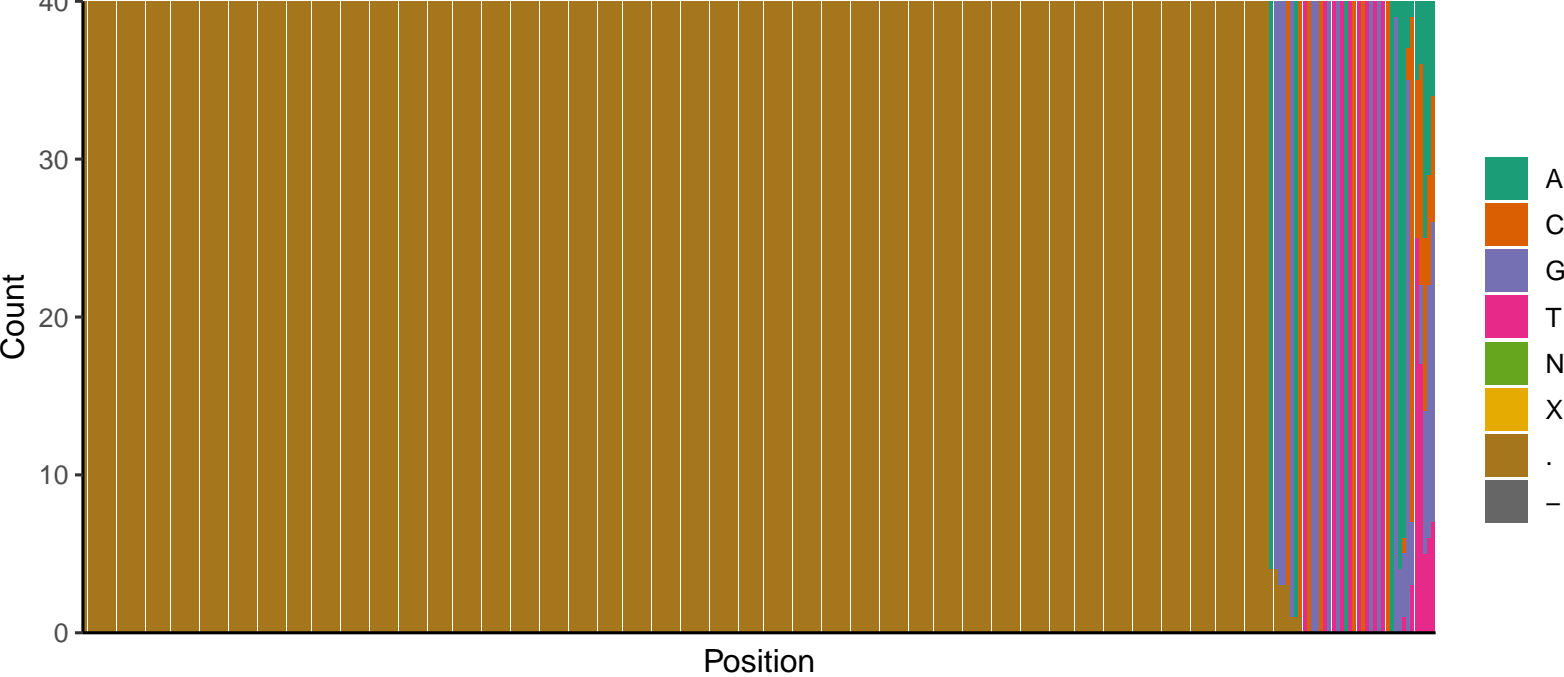
Gene TRBV7-7\*ap01\_C315T



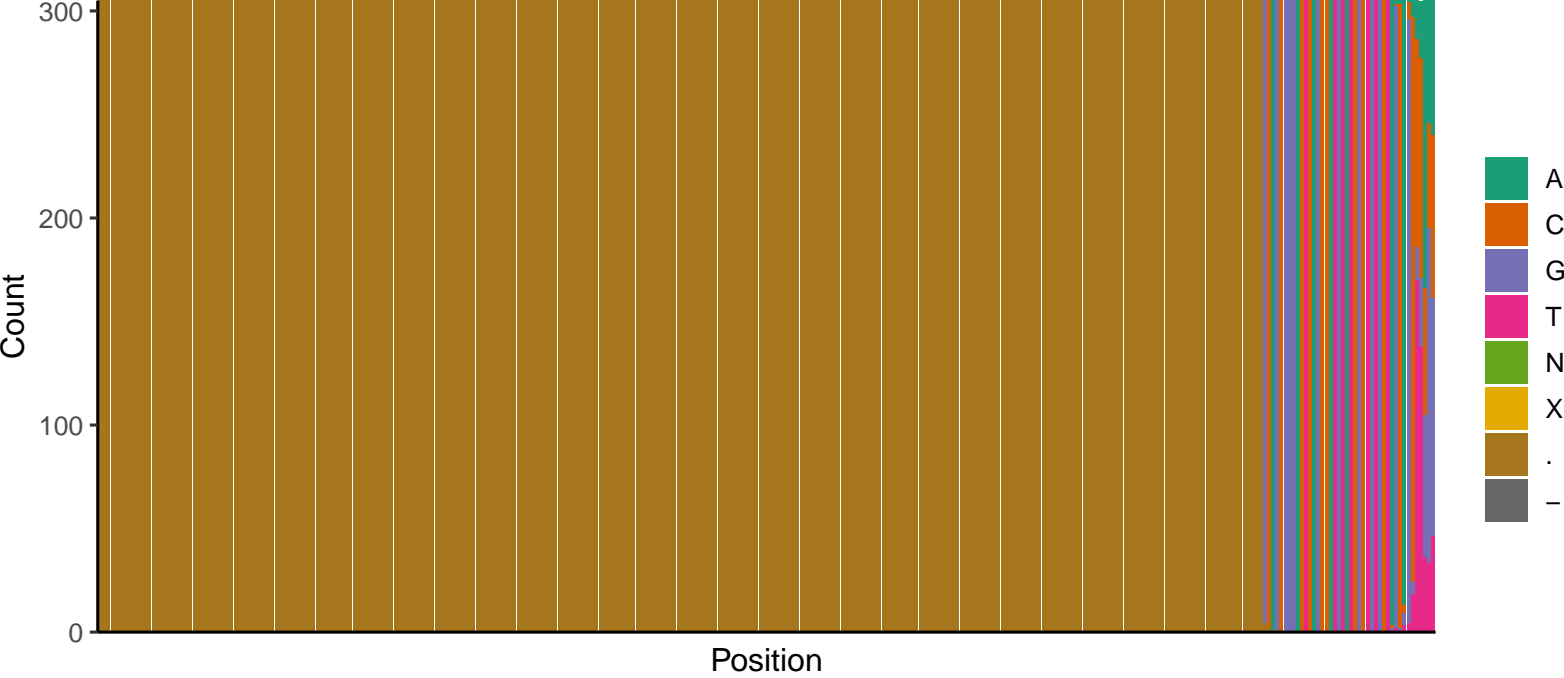
Gene TRBV7-1\*ap01\_T296C



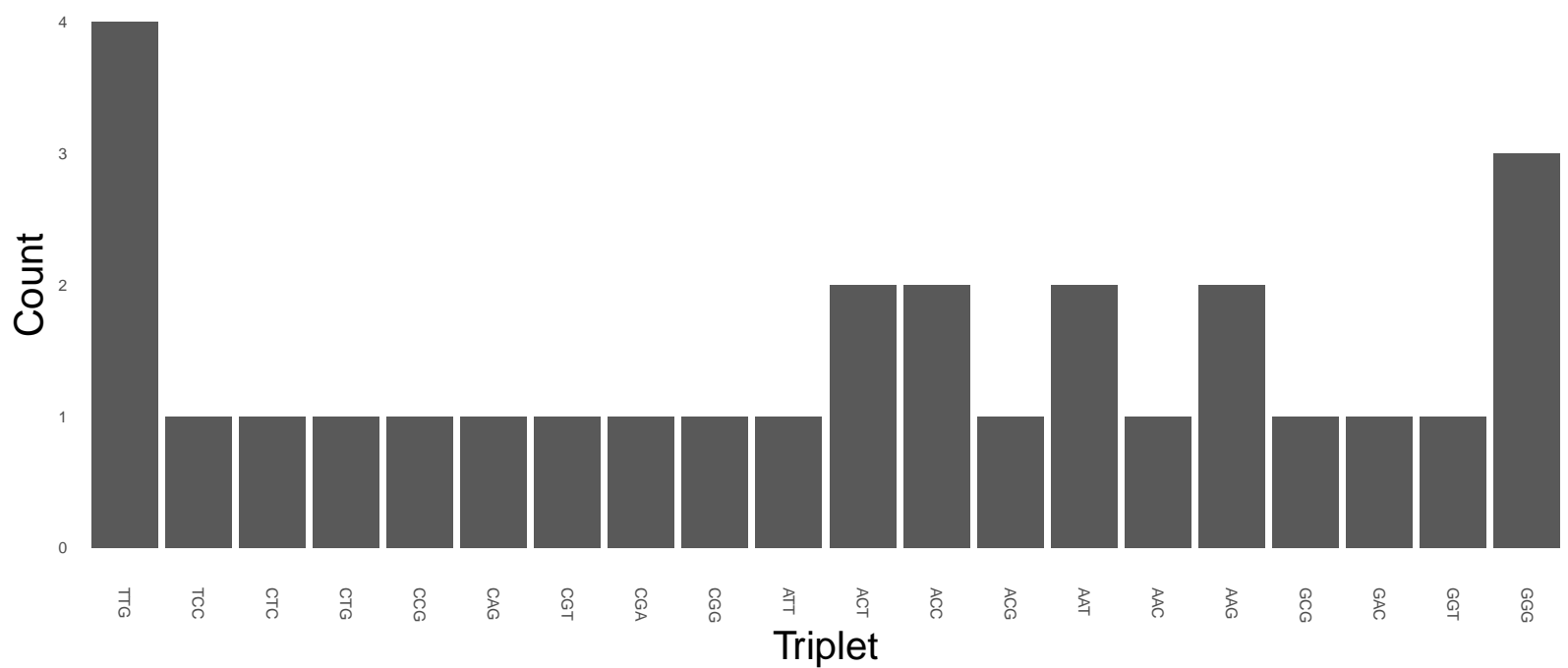
Gene TRBV7-1\*ap01\_T296C\_C314T



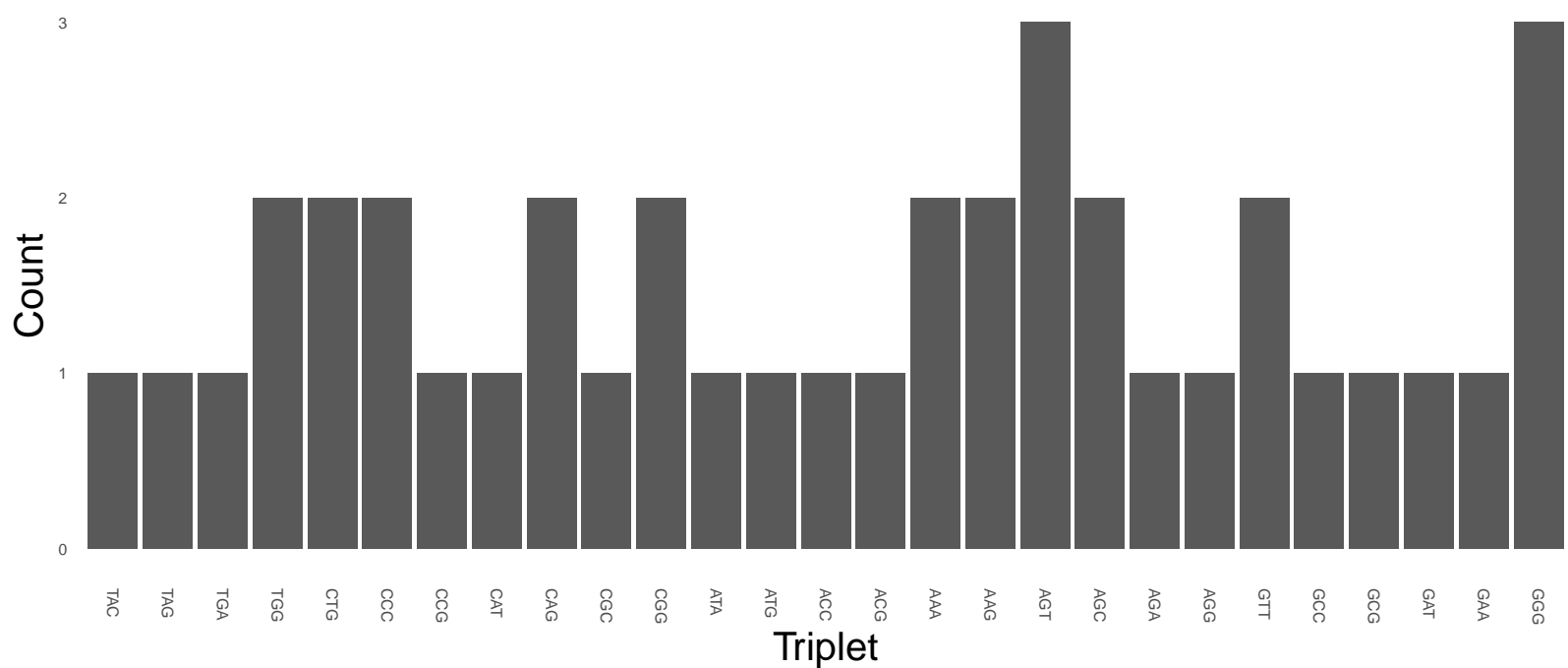
Gene TRBV7-7\*ap01\_C315T



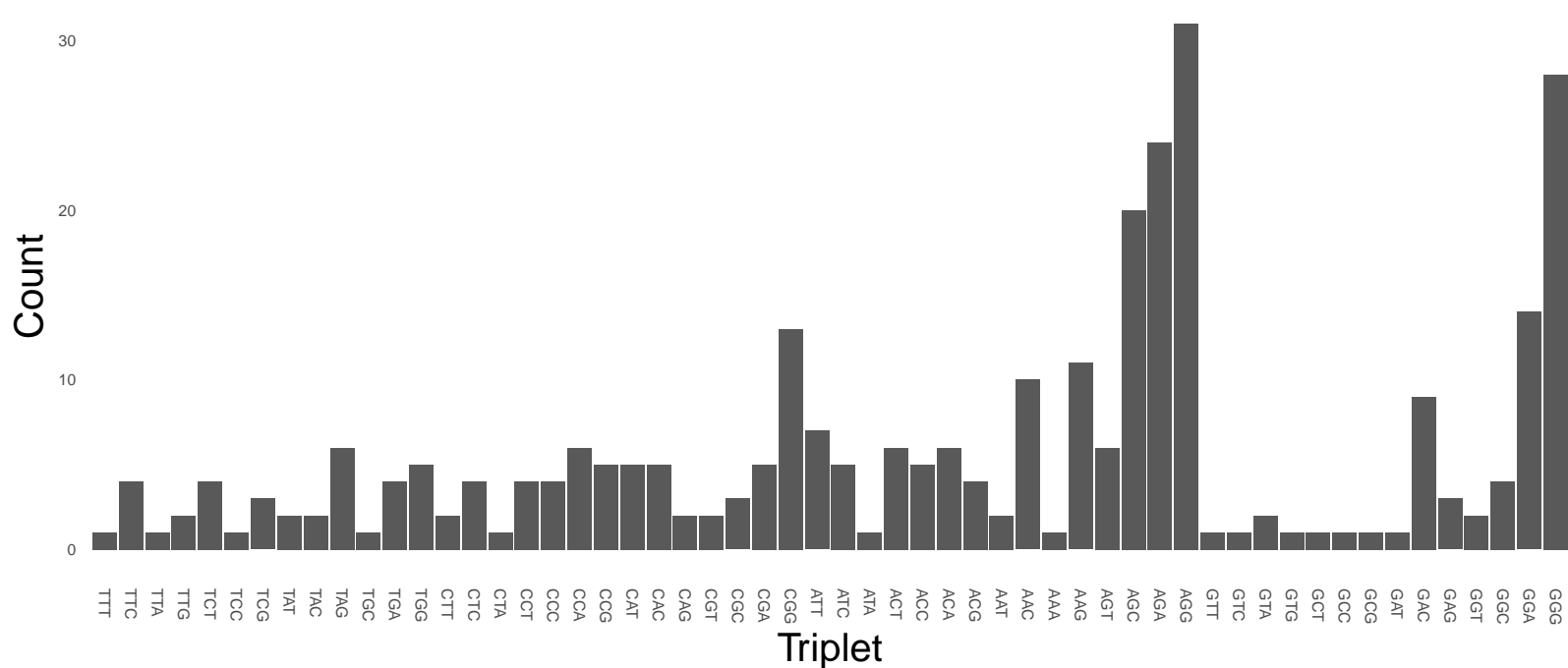
TRBV7-1\*ap01\_T296C- Final 3 nucleotides as a triplet



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

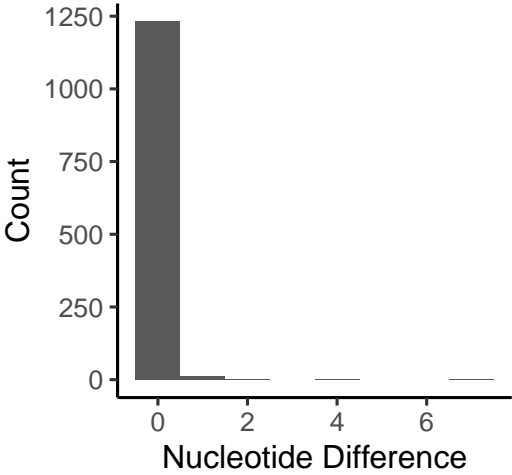


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



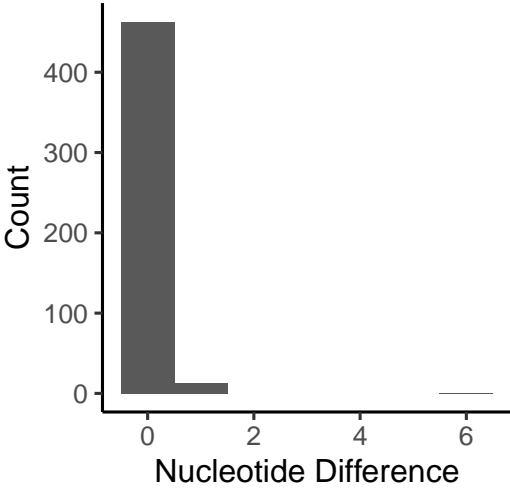
TRBV10-1\*ap01

1247 sequences assigned  
1232 (98.8%) exact matches, in which:  
1229 unique CDR3  
13 unique J



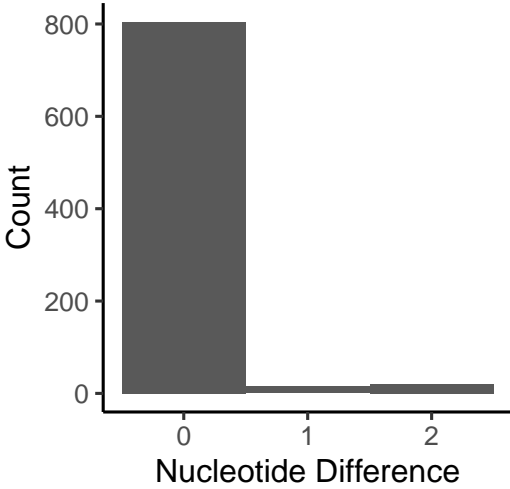
TRBV10-2\*ap01

477 sequences assigned  
463 (97.1%) exact matches, in which:  
457 unique CDR3  
13 unique J



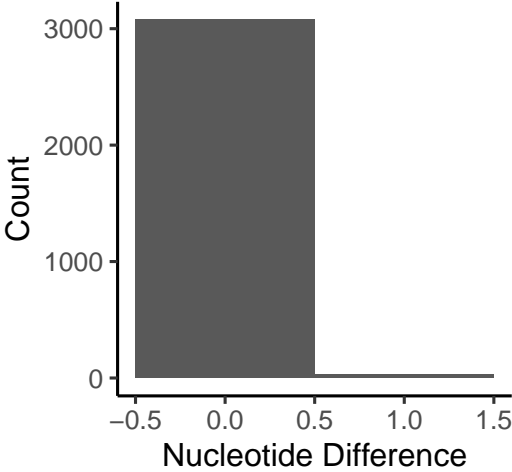
TRBV13\*ap01

840 sequences assigned  
805 (95.8%) exact matches, in which:  
793 unique CDR3  
13 unique J



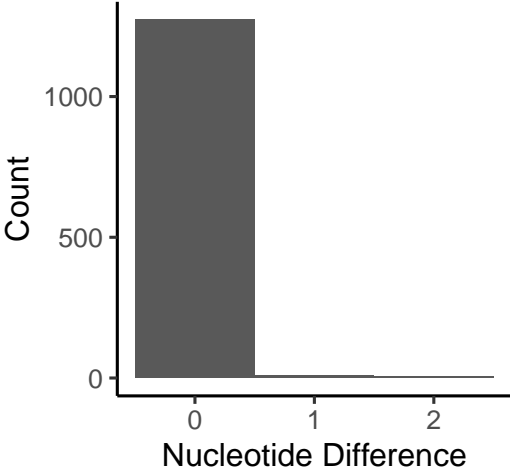
TRBV20-1\*ap01

3103 sequences assigned  
3077 (99.2%) exact matches, in which:  
3068 unique CDR3  
13 unique J



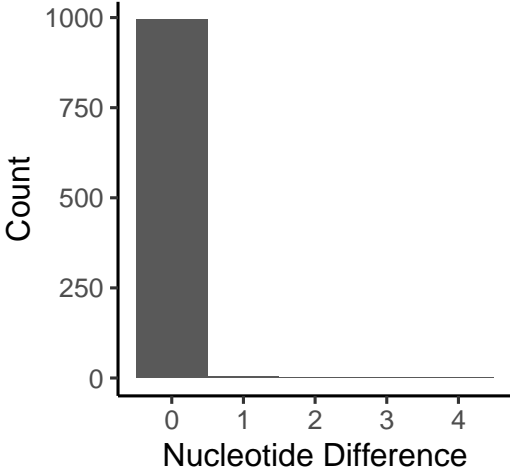
TRBV10-3\*ap01

1286 sequences assigned  
1273 (99%) exact matches, in which:  
1268 unique CDR3  
13 unique J



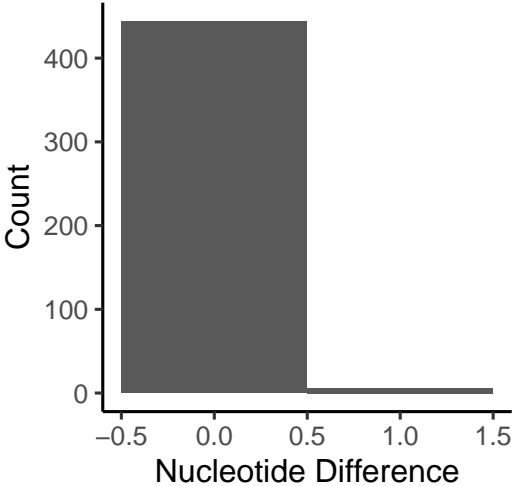
TRBV14\*ap01

1001 sequences assigned  
994 (99.3%) exact matches, in which:  
992 unique CDR3  
13 unique J



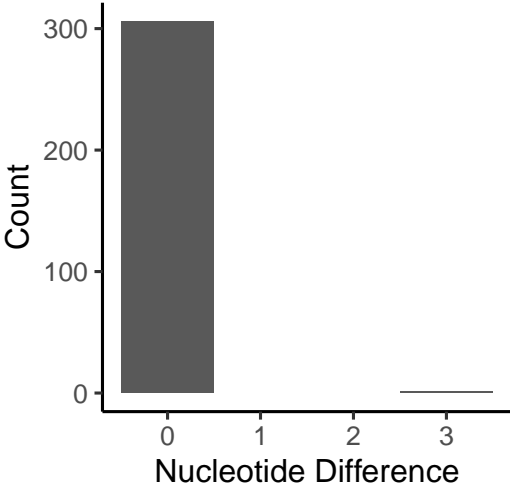
TRBV20-1\*ap02

450 sequences assigned  
444 (98.7%) exact matches, in which:  
442 unique CDR3  
13 unique J



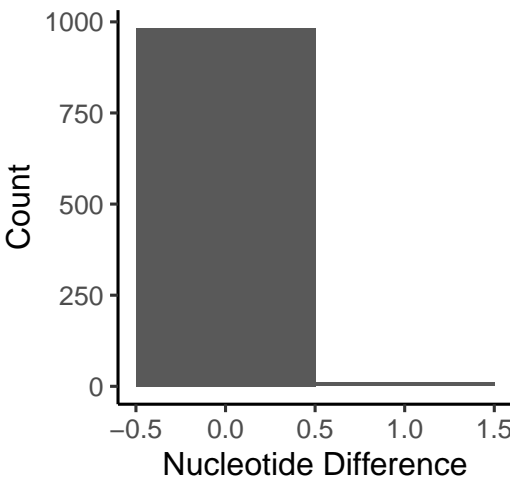
TRBV1\*ap01

307 sequences assigned  
306 (99.7%) exact matches, in which:  
304 unique CDR3  
13 unique J



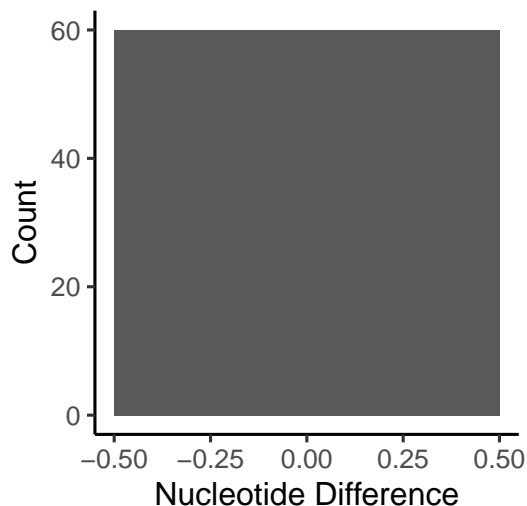
TRBV15\*ap02

994 sequences assigned  
983 (98.9%) exact matches, in which:  
978 unique CDR3  
13 unique J



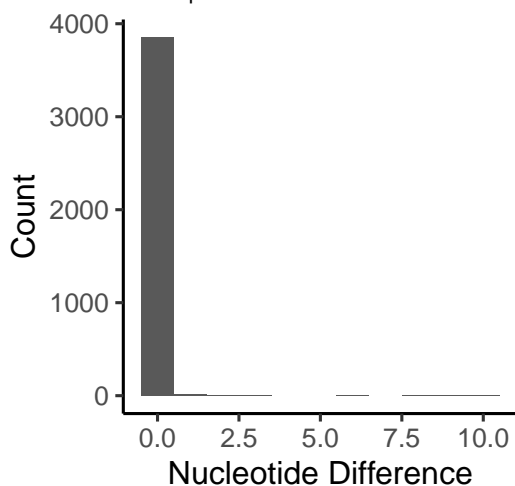
### TRBV16\*ap01

60 sequences assigned  
60 (100%) exact matches, in which:  
59 unique CDR3  
11 unique J



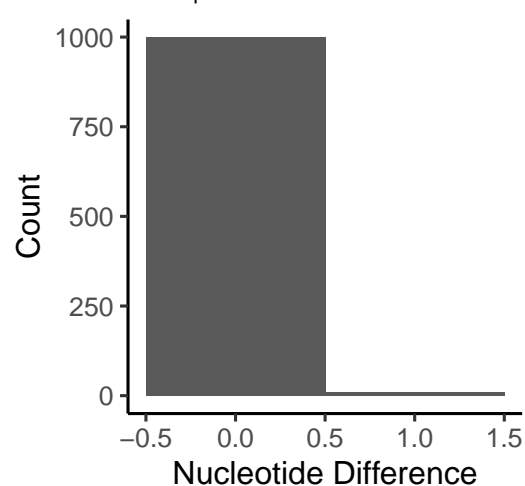
### TRBV19\*ap01

3881 sequences assigned  
3853 (99.3%) exact matches, in which:  
3841 unique CDR3  
13 unique J



### TRBV28\*ap01

1008 sequences assigned  
999 (99.1%) exact matches, in which:  
993 unique CDR3  
13 unique J



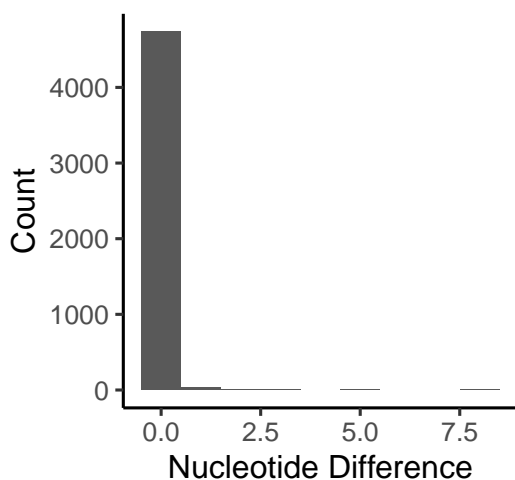
### TRBV17\*ap01

1 sequences assigned  
No exact matches.



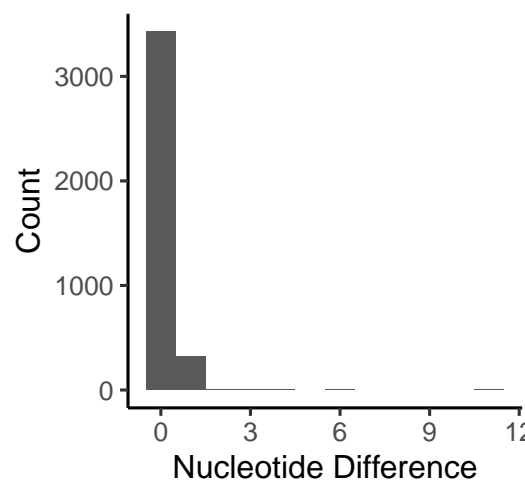
### TRBV2\*ap01

4773 sequences assigned  
4736 (99.2%) exact matches, in which:  
4718 unique CDR3  
13 unique J



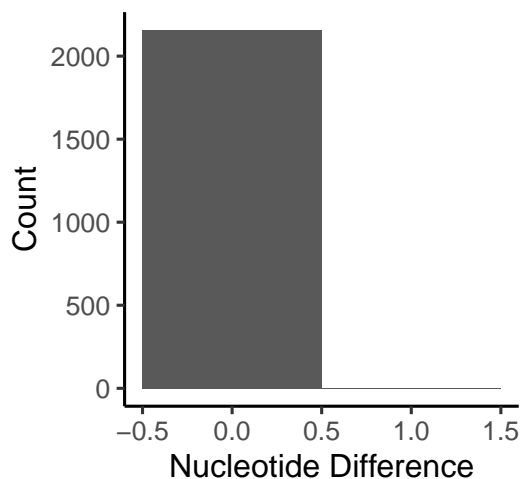
### TRBV30\*ap01

3760 sequences assigned  
3427 (91.1%) exact matches, in which:  
3386 unique CDR3  
13 unique J



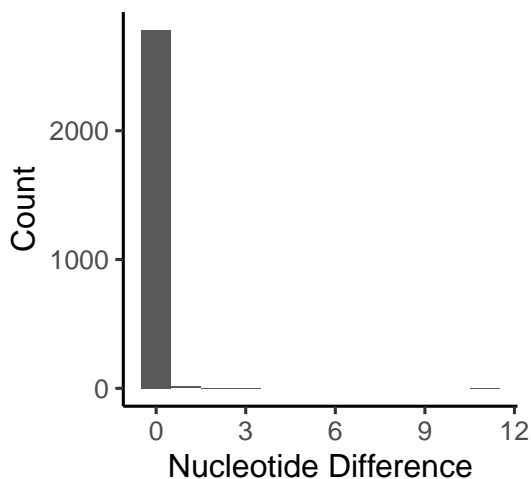
### TRBV18\*ap01

2159 sequences assigned  
2157 (99.9%) exact matches, in which:  
2150 unique CDR3  
13 unique J



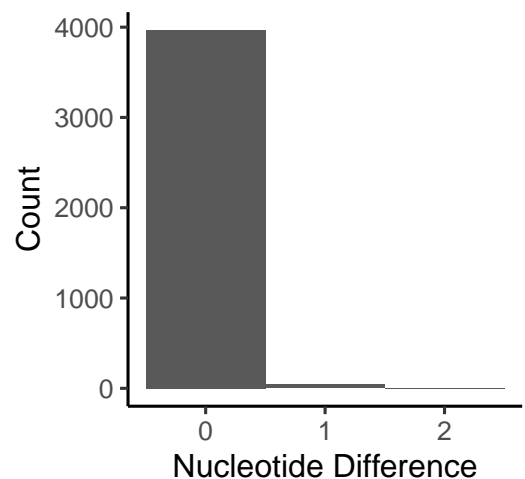
### TRBV27\*ap01

2801 sequences assigned  
2782 (99.3%) exact matches, in which:  
2767 unique CDR3  
13 unique J



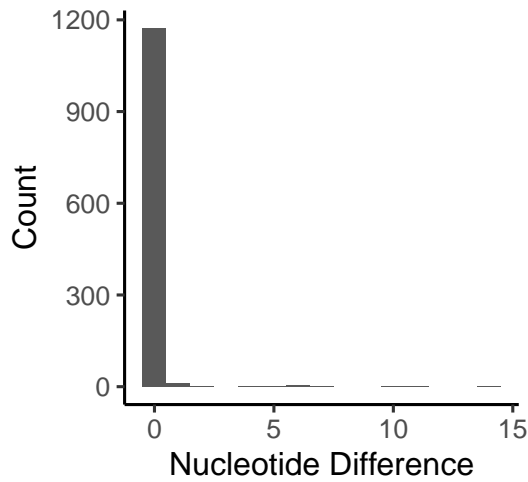
### TRBV9\*ap01

4012 sequences assigned  
3968 (98.9%) exact matches, in which:  
3955 unique CDR3  
13 unique J



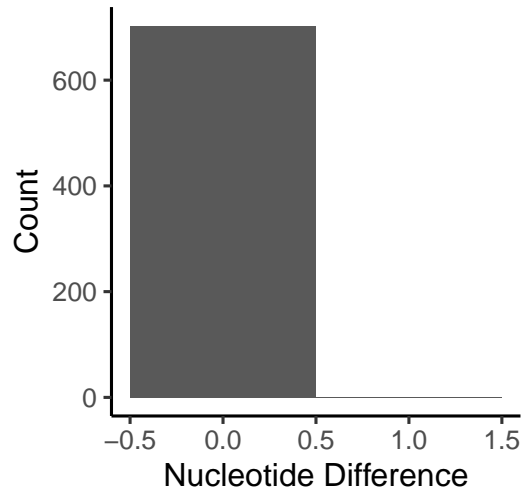
### TRBV21-1\*ap01

1200 sequences assigned  
1172 (97.7%) exact matches, in which:  
1168 unique CDR3  
14 unique J



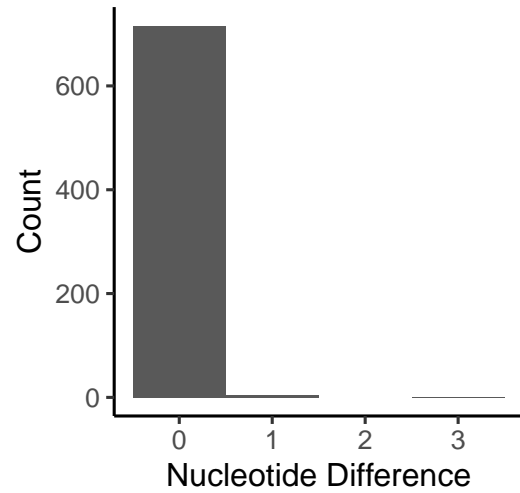
### TRBV11-3\*ap01

704 sequences assigned  
703 (99.9%) exact matches, in which:  
703 unique CDR3  
13 unique J



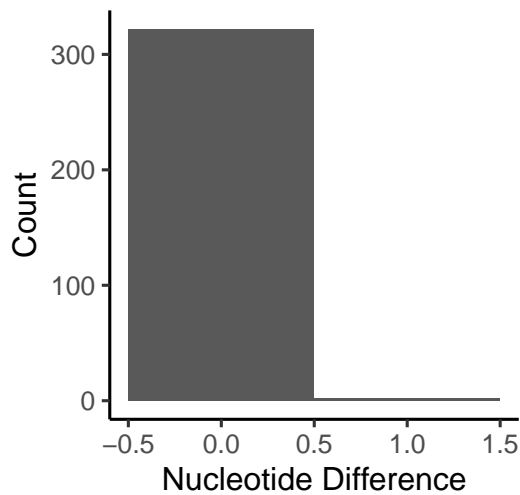
### TRBV12-5\*ap01

722 sequences assigned  
716 (99.2%) exact matches, in which:  
711 unique CDR3  
13 unique J



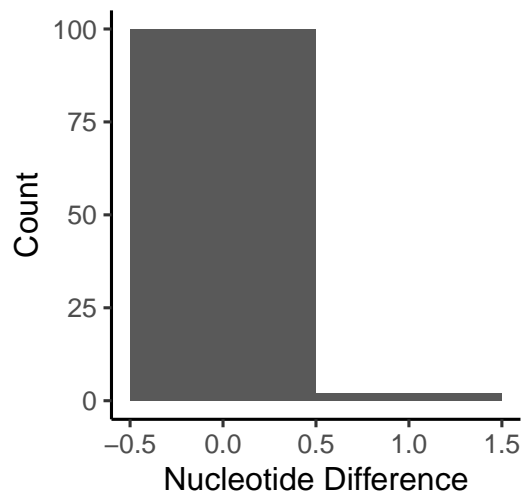
### TRBV11-1\*ap01

324 sequences assigned  
322 (99.4%) exact matches, in which:  
322 unique CDR3  
13 unique J



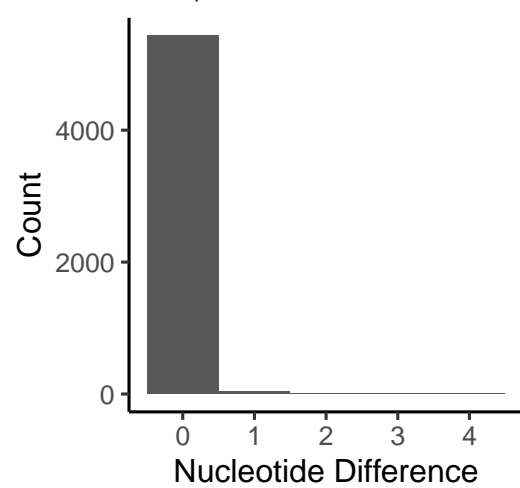
### TRBV12-1\*ap01

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



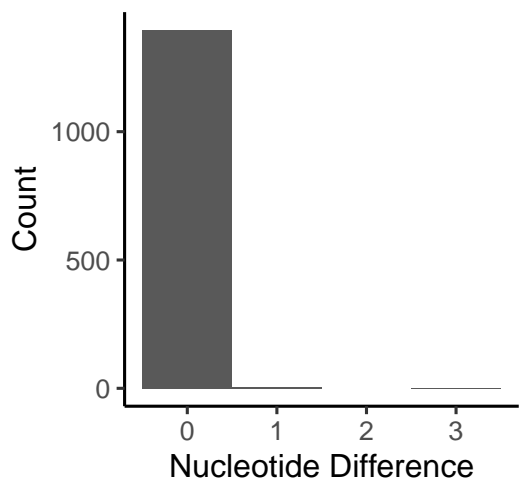
### TRBV12-34\*ap01

5477 sequences assigned  
5432 (99.2%) exact matches, in which:  
5401 unique CDR3  
13 unique J



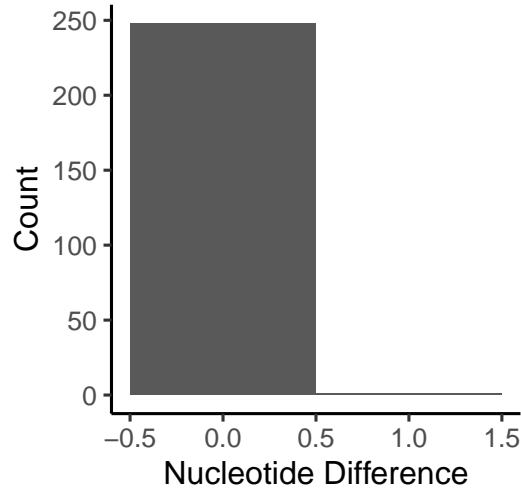
### TRBV11-2\*ap01

1403 sequences assigned  
1396 (99.5%) exact matches, in which:  
1392 unique CDR3  
13 unique J



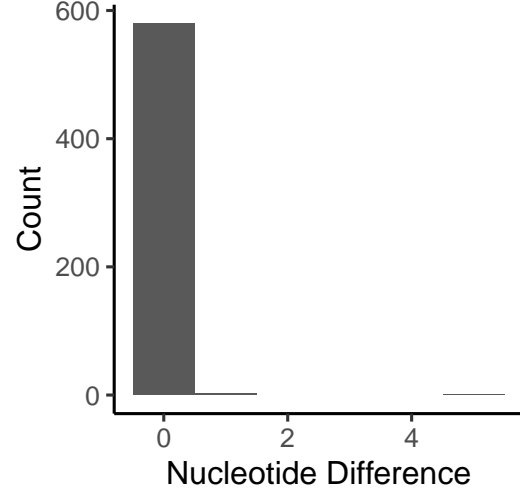
### TRBV12-2\*ap01

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



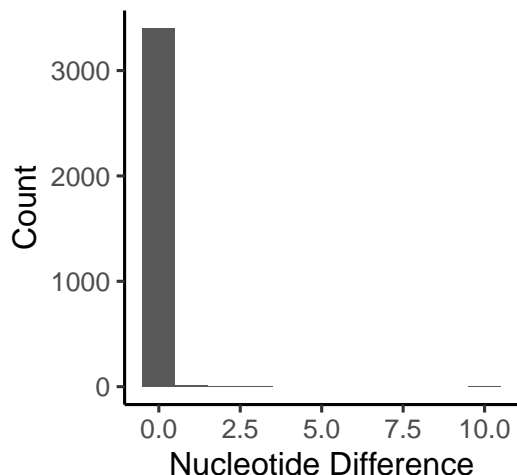
### TRBV23-1\*ap01

584 sequences assigned  
580 (99.3%) exact matches, in which:  
578 unique CDR3  
13 unique J



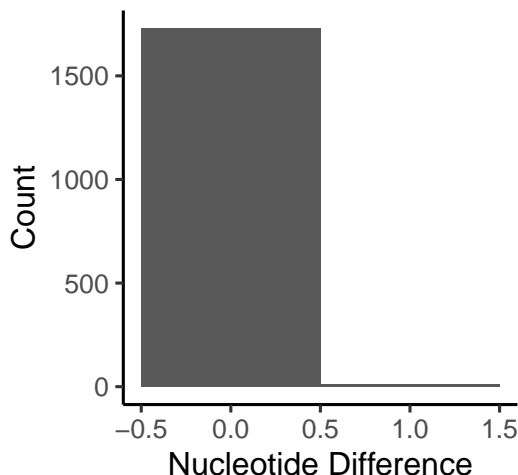
### TRBV3-12\*ap01

3417 sequences assigned  
3400 (99.5%) exact matches, in which:  
3391 unique CDR3  
13 unique J



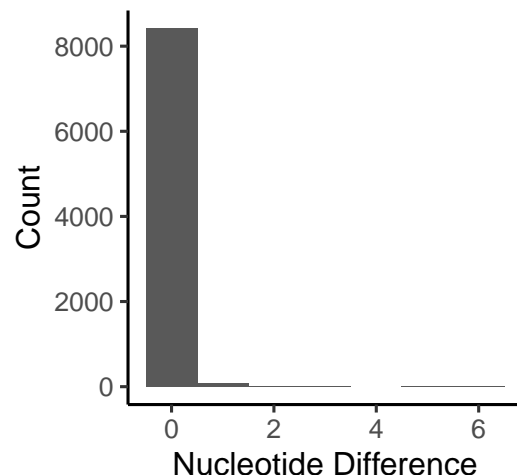
### TRBV4-2\*ap01

1742 sequences assigned  
1729 (99.3%) exact matches, in which:  
1718 unique CDR3  
13 unique J



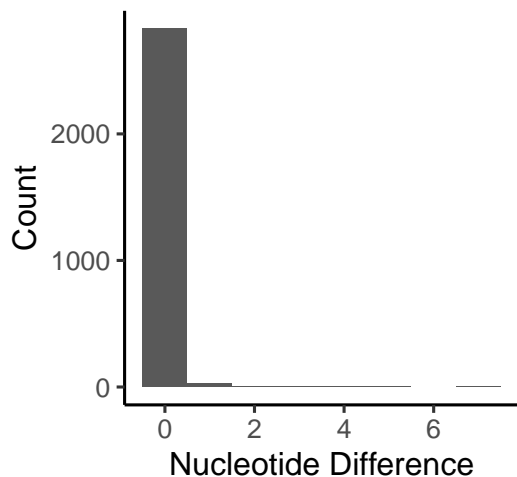
### TRBV5-1\*ap01

8497 sequences assigned  
8417 (99.1%) exact matches, in which:  
8353 unique CDR3  
14 unique J



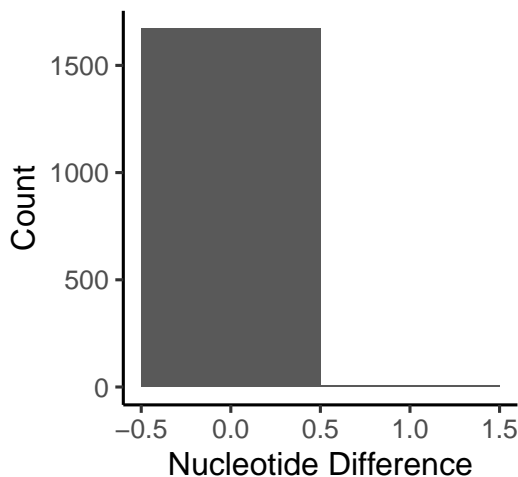
### TRBV24-1\*ap01

2865 sequences assigned  
2831 (98.8%) exact matches, in which:  
2819 unique CDR3  
13 unique J



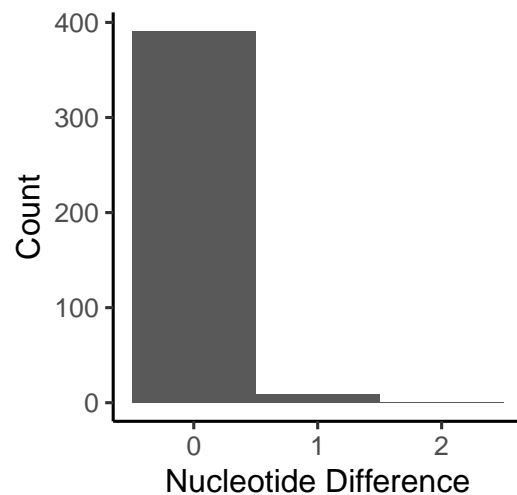
### TRBV4-3\*ap01

1678 sequences assigned  
1671 (99.6%) exact matches, in which:  
1664 unique CDR3  
13 unique J



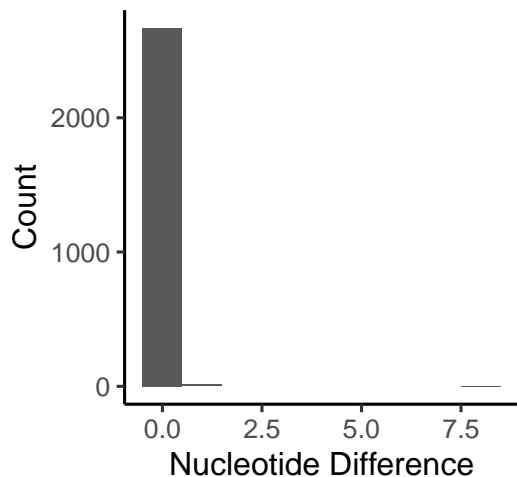
### TRBV5-3\*ap01

401 sequences assigned  
391 (97.5%) exact matches, in which:  
390 unique CDR3  
13 unique J



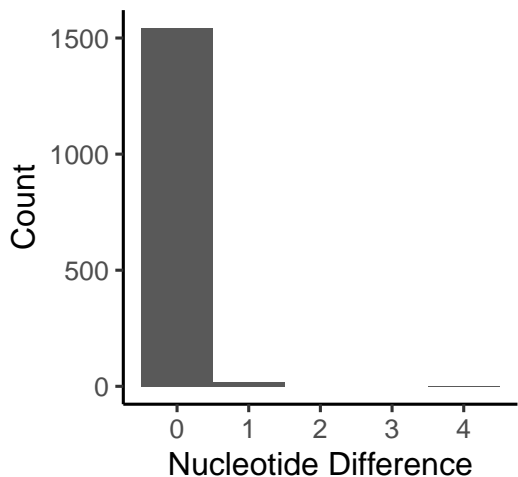
### TRBV4-1\*ap01

2682 sequences assigned  
2668 (99.5%) exact matches, in which:  
2657 unique CDR3  
13 unique J



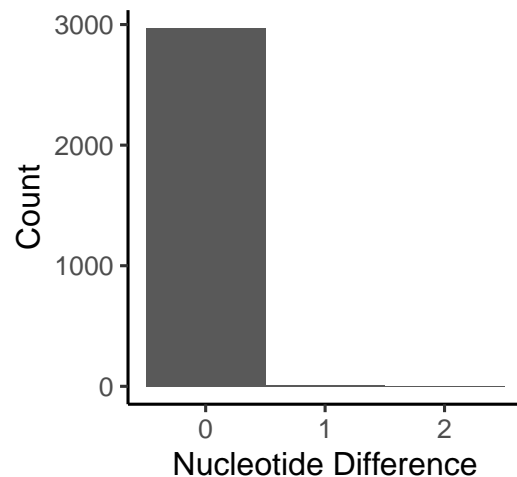
### TRBV25-1\*ap01

1563 sequences assigned  
1543 (98.7%) exact matches, in which:  
1528 unique CDR3  
13 unique J



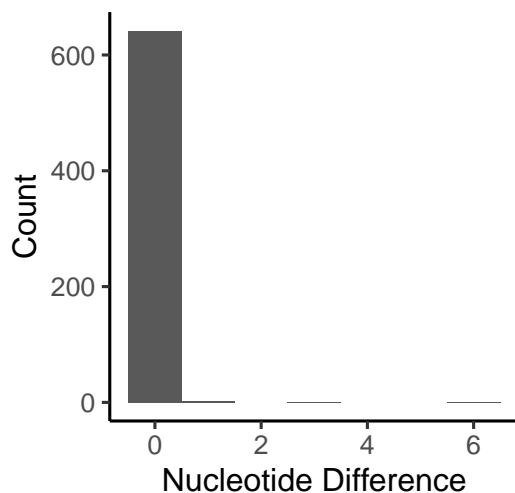
### TRBV5-4\*ap01

2983 sequences assigned  
2971 (99.6%) exact matches, in which:  
2961 unique CDR3  
13 unique J



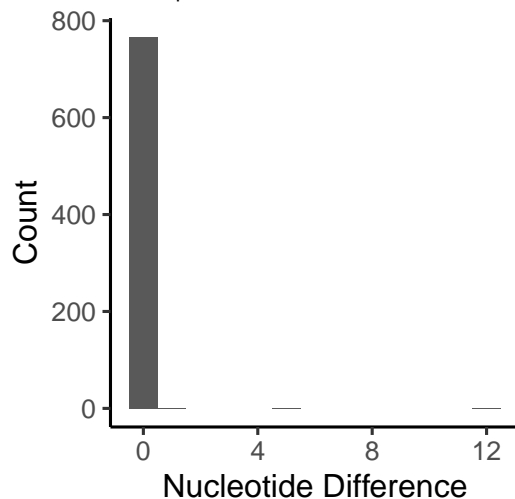
### TRBV5-5\*ap01

646 sequences assigned  
642 (99.4%) exact matches, in which:  
639 unique CDR3  
13 unique J



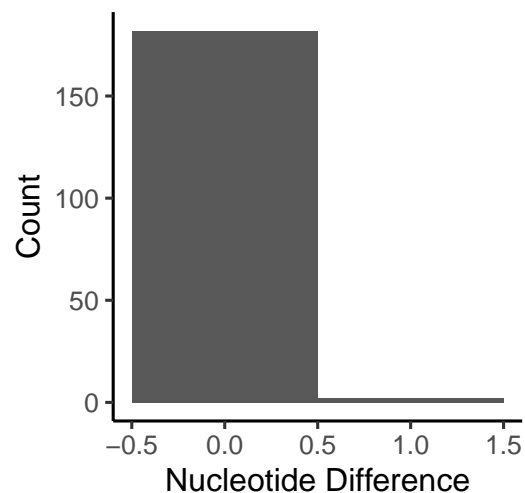
### TRBV5-8\*ap01

770 sequences assigned  
767 (99.6%) exact matches, in which:  
761 unique CDR3  
13 unique J



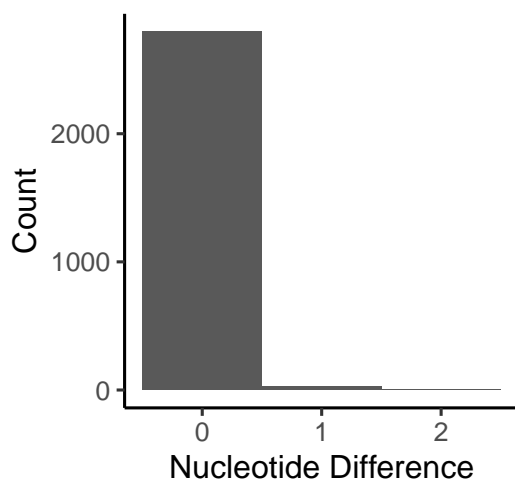
### TRBV6-7\*ap01

184 sequences assigned  
182 (98.9%) exact matches, in which:  
180 unique CDR3  
13 unique J



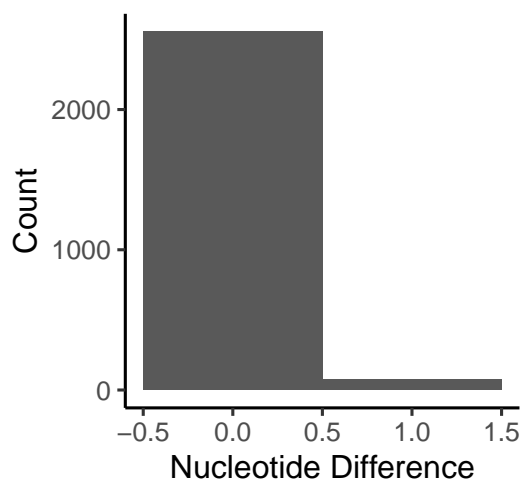
### TRBV5-6\*ap01

2821 sequences assigned  
2796 (99.1%) exact matches, in which:  
2769 unique CDR3  
13 unique J



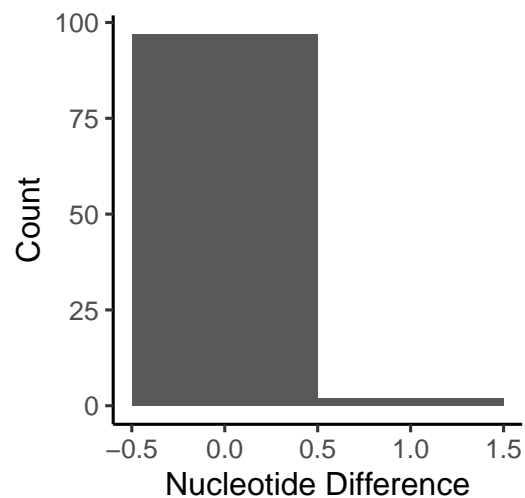
### TRBV6-1\*ap01

2631 sequences assigned  
2555 (97.1%) exact matches, in which:  
2539 unique CDR3  
13 unique J



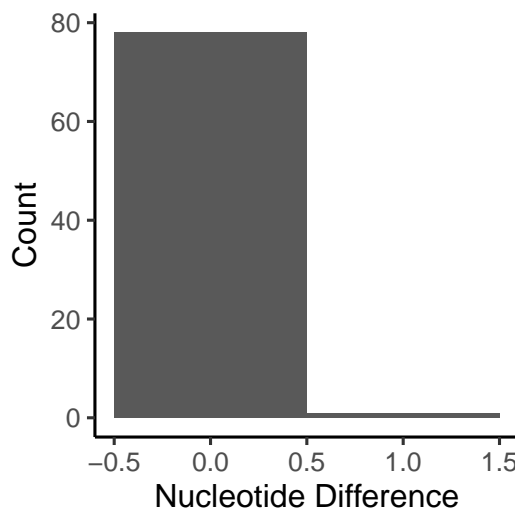
### TRBV6-8\*ap01

99 sequences assigned  
97 (98%) exact matches, in which:  
95 unique CDR3  
13 unique J



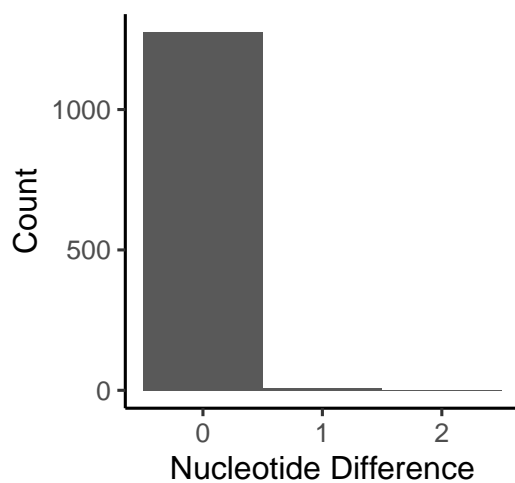
### TRBV5-7\*ap01

79 sequences assigned  
78 (98.7%) exact matches, in which:  
77 unique CDR3  
13 unique J



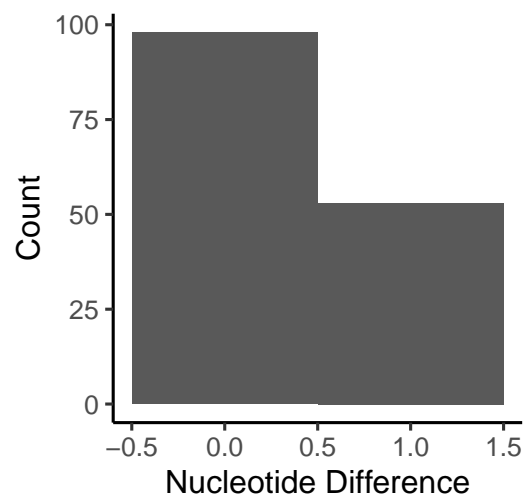
### TRBV6-4\*ap01

1286 sequences assigned  
1276 (99.2%) exact matches, in which:  
1273 unique CDR3  
13 unique J



### TRBV6-9\*ap01

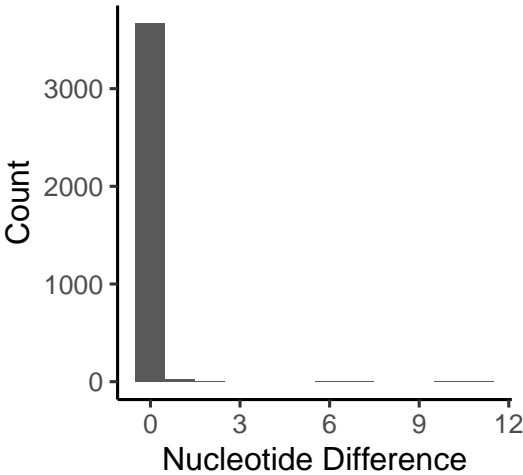
151 sequences assigned  
98 (64.9%) exact matches, in which:  
97 unique CDR3  
12 unique J





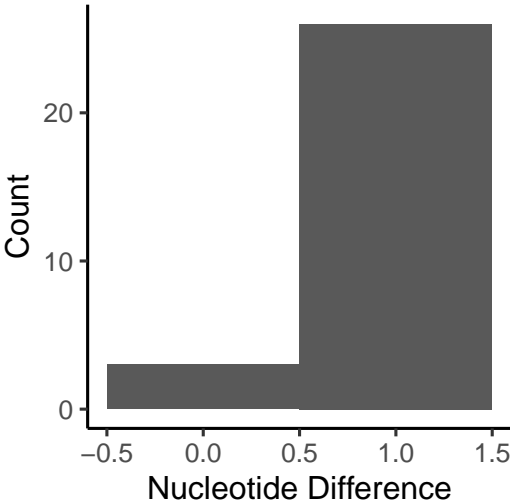
TRBV6-23\*ap01

3698 sequences assigned  
3668 (99.2%) exact matches, in which:  
3637 unique CDR3  
13 unique J



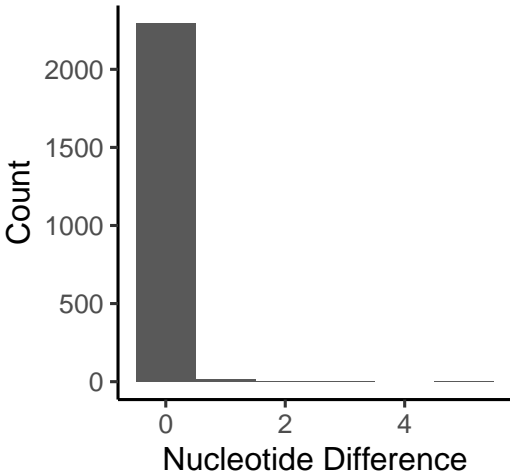
TRBV7-1\*ap01\_T296C

29 sequences assigned  
3 (10.3%) exact matches, in which:  
3 unique CDR3  
3 unique J



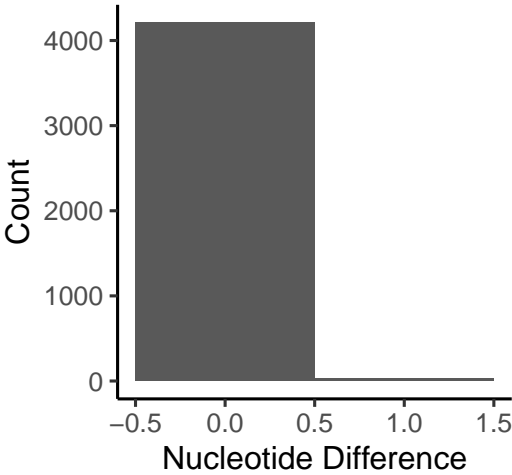
TRBV7-3\*ap01

2315 sequences assigned  
2294 (99.1%) exact matches, in which:  
2290 unique CDR3  
13 unique J



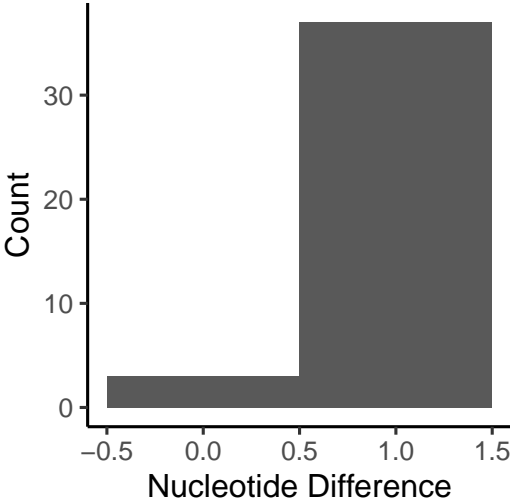
TRBV6-56\*ap01

4233 sequences assigned  
4209 (99.4%) exact matches, in which:  
4171 unique CDR3  
13 unique J



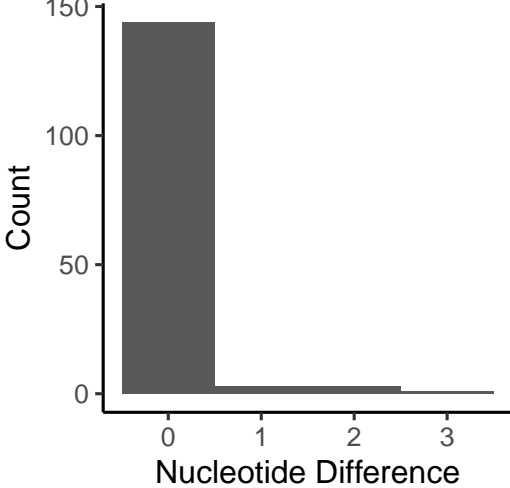
TRBV7-1\*ap01\_T296C\_C

40 sequences assigned  
3 (7.5%) exact matches, in which:  
3 unique CDR3  
3 unique J



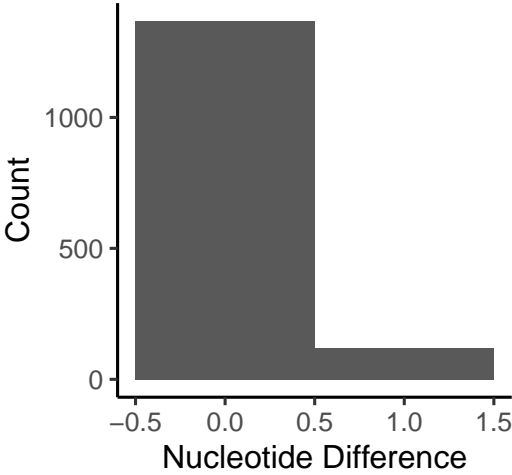
TRBV7-4\*ap01

151 sequences assigned  
144 (95.4%) exact matches, in which:  
144 unique CDR3  
13 unique J



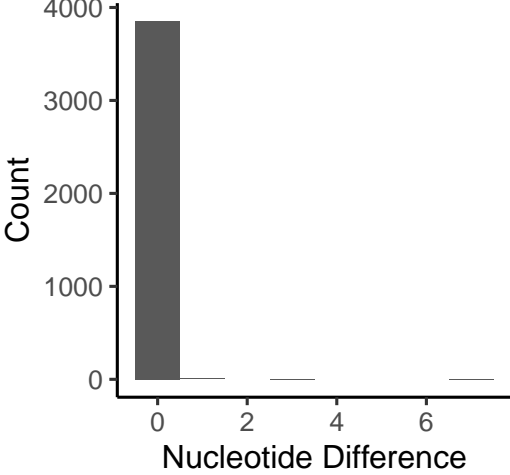
TRBV6-56\*ap02

1488 sequences assigned  
1368 (91.9%) exact matches, in which:  
1356 unique CDR3  
13 unique J



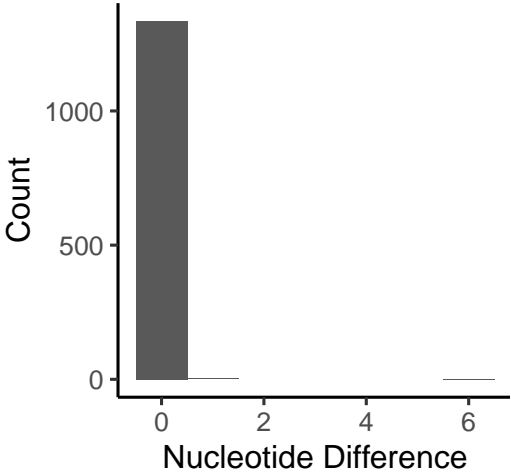
TRBV7-2\*ap01

3866 sequences assigned  
3854 (99.7%) exact matches, in which:  
3840 unique CDR3  
13 unique J



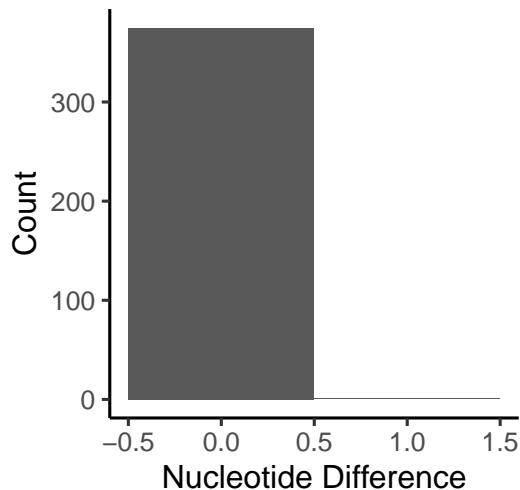
TRBV7-6\*ap01

1339 sequences assigned  
1335 (99.7%) exact matches, in which:  
1334 unique CDR3  
13 unique J



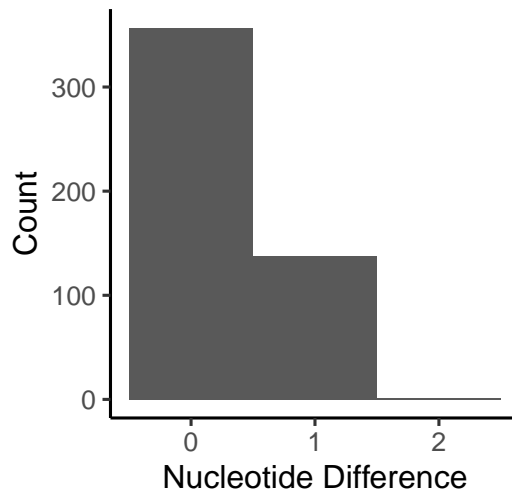
### TRBV7-7\*ap01

376 sequences assigned  
375 (99.7%) exact matches, in which:  
371 unique CDR3  
13 unique J



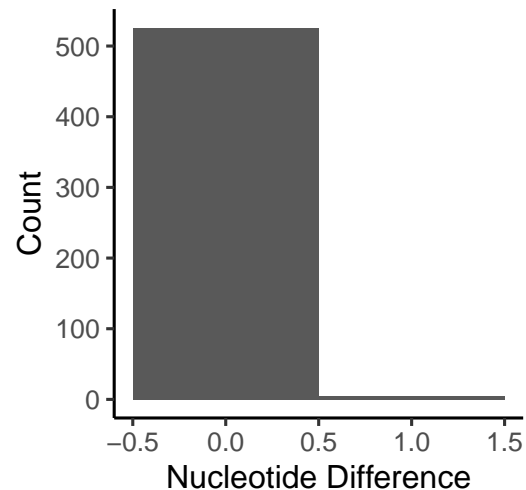
### TRBV7-8\*ap03

496 sequences assigned  
357 (72%) exact matches, in which:  
354 unique CDR3  
13 unique J



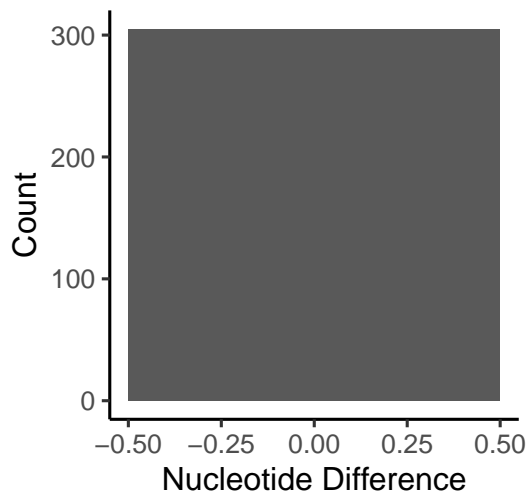
### TRBV29-1\*ap02

531 sequences assigned  
526 (99.1%) exact matches, in which:  
525 unique CDR3  
13 unique J



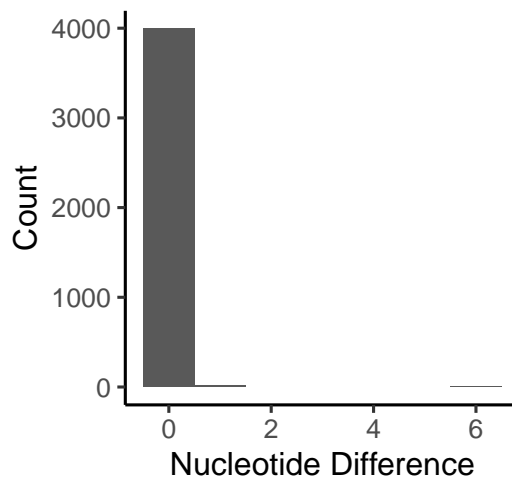
### TRBV7-7\*ap01\_C315T

305 sequences assigned  
305 (100%) exact matches, in which:  
305 unique CDR3  
13 unique J



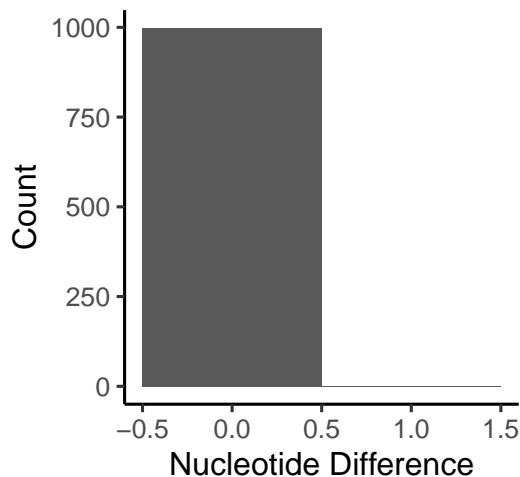
### TRBV7-9\*ap01

4017 sequences assigned  
3994 (99.4%) exact matches, in which:  
3977 unique CDR3  
13 unique J



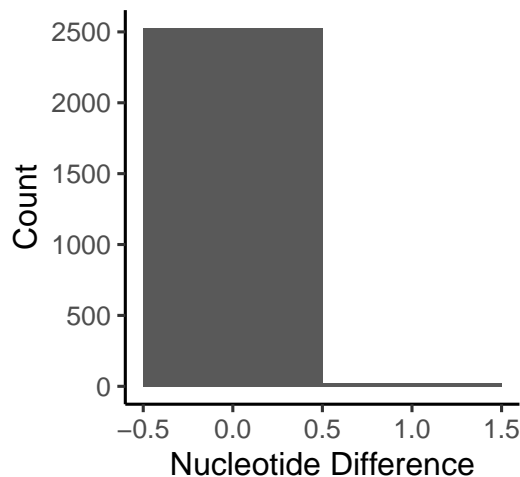
### TRBV7-8\*ap01

999 sequences assigned  
998 (99.9%) exact matches, in which:  
998 unique CDR3  
13 unique J

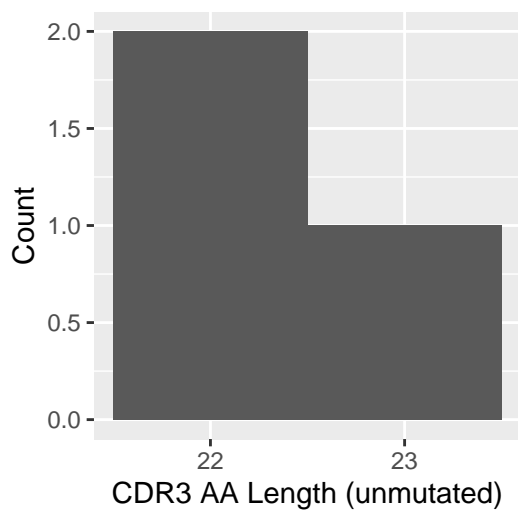


### TRBV29-1\*ap01

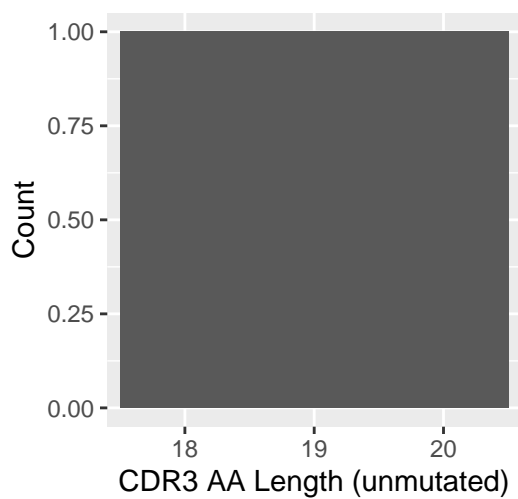
2549 sequences assigned  
2527 (99.1%) exact matches, in which:  
2501 unique CDR3  
13 unique J



TRBV7-1\*ap01\_T296C



TRBV7-1\*ap01\_T296C\_C314T



TRBV7-7\*ap01\_C315T

