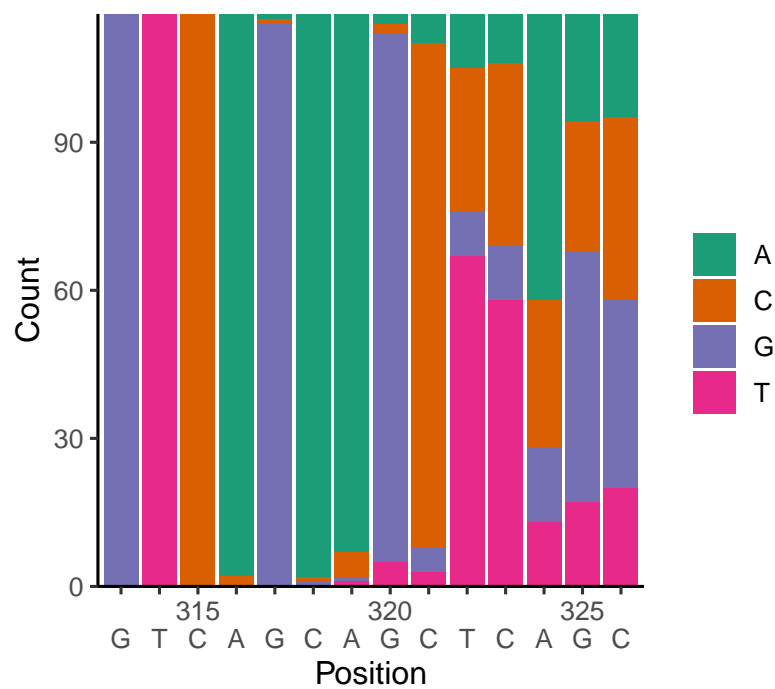
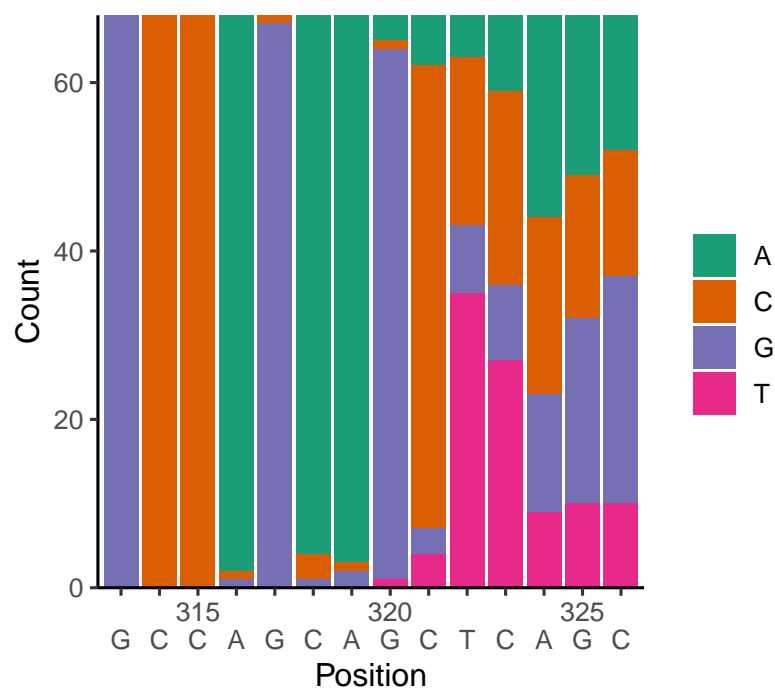


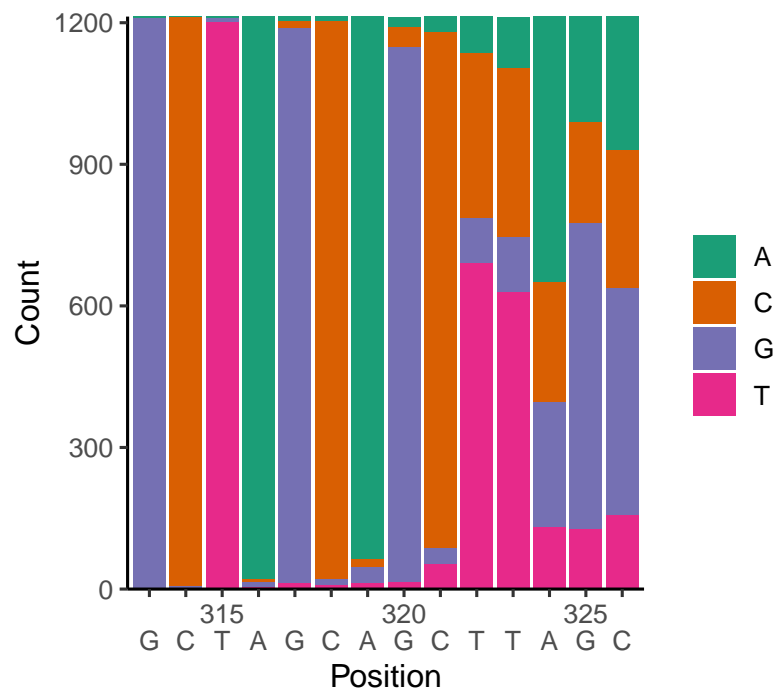
Gene TRBV7-1\*ap01\_G291C\_T296C\_C314T



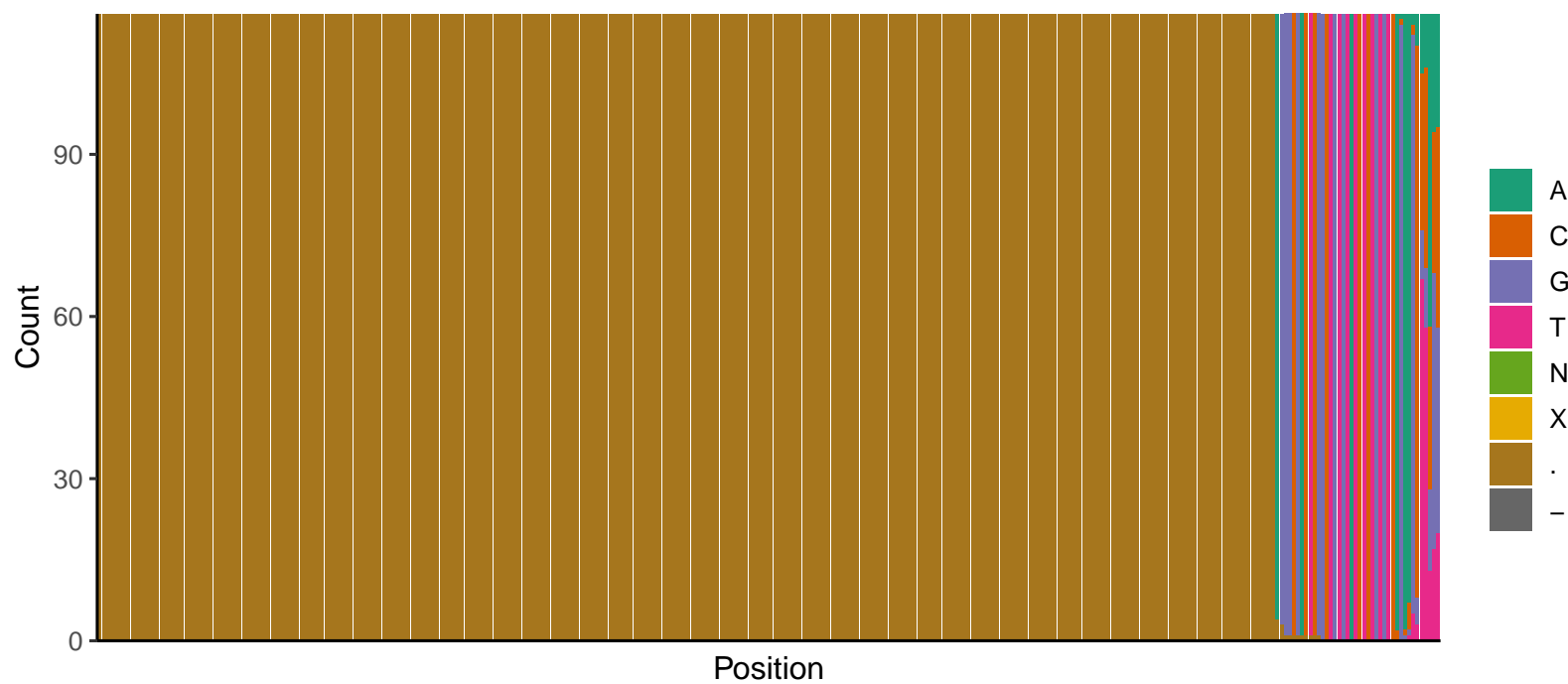
Gene TRBV7-1\*ap01\_G291C\_T296C



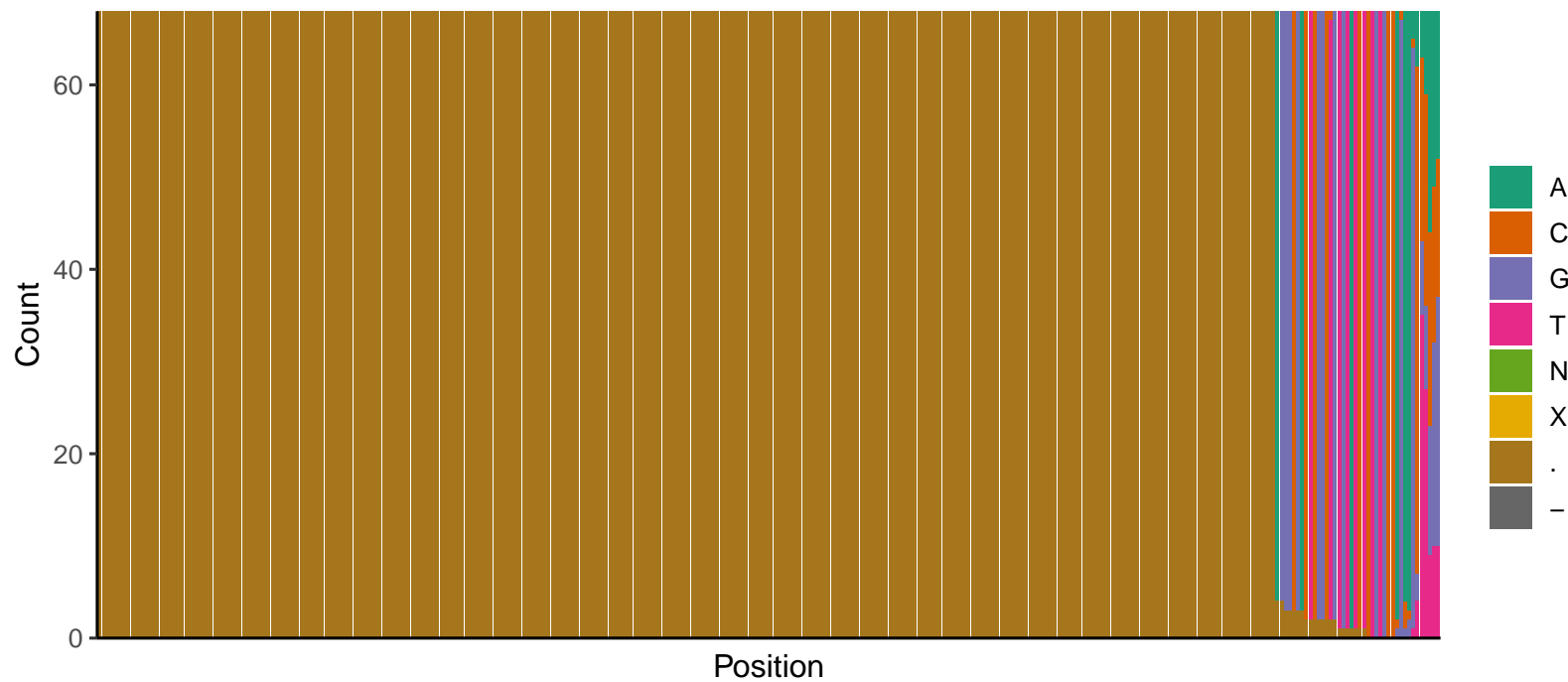
Gene TRBV7-7\*ap01\_C315T



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



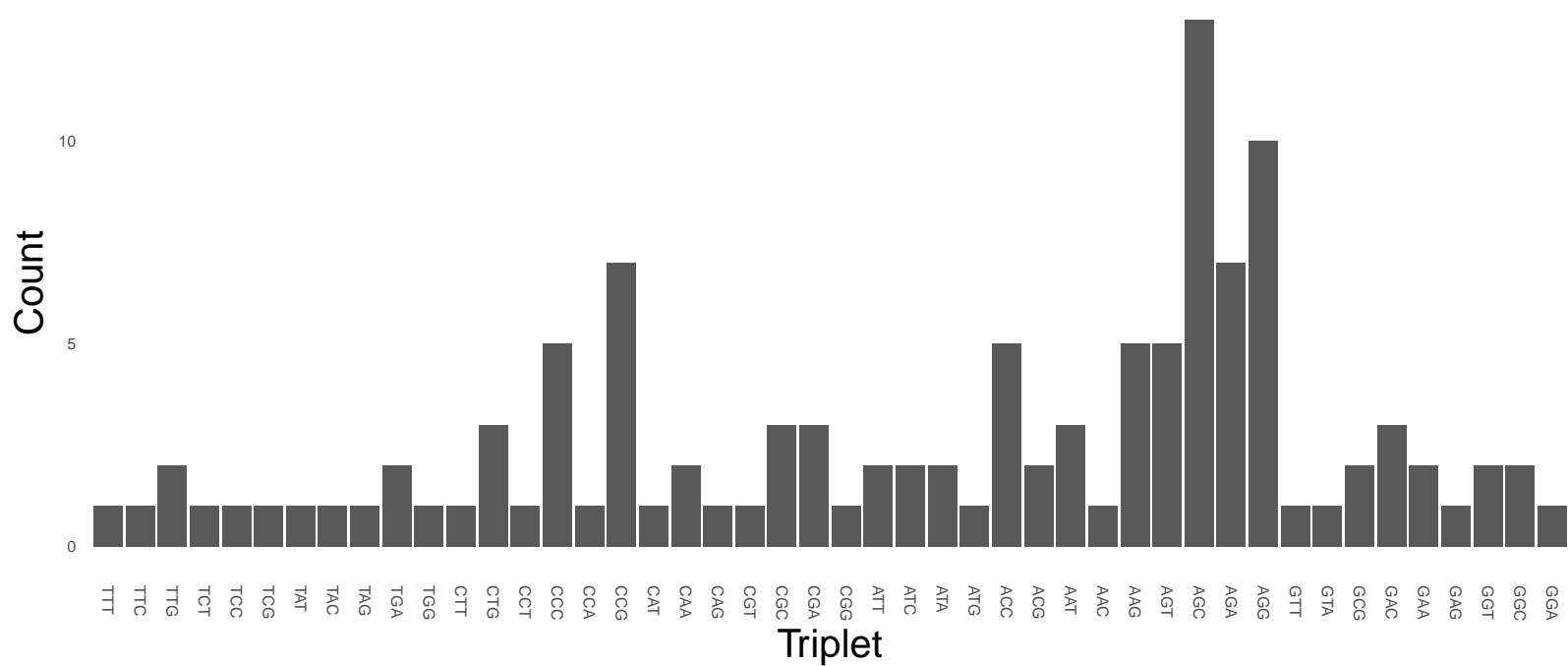
Gene TRBV7-1\*ap01\_G291C\_T296C



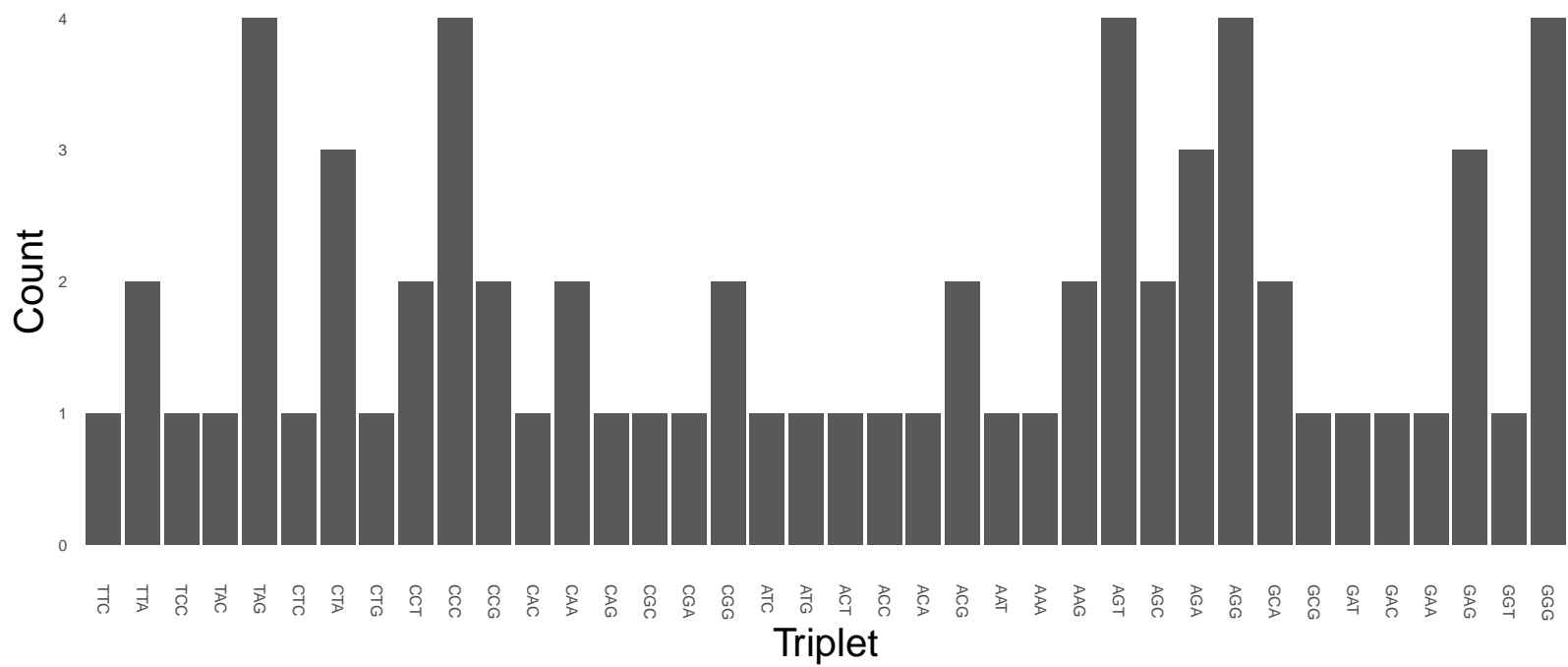
Gene TRBV7-7\*ap01\_C315T



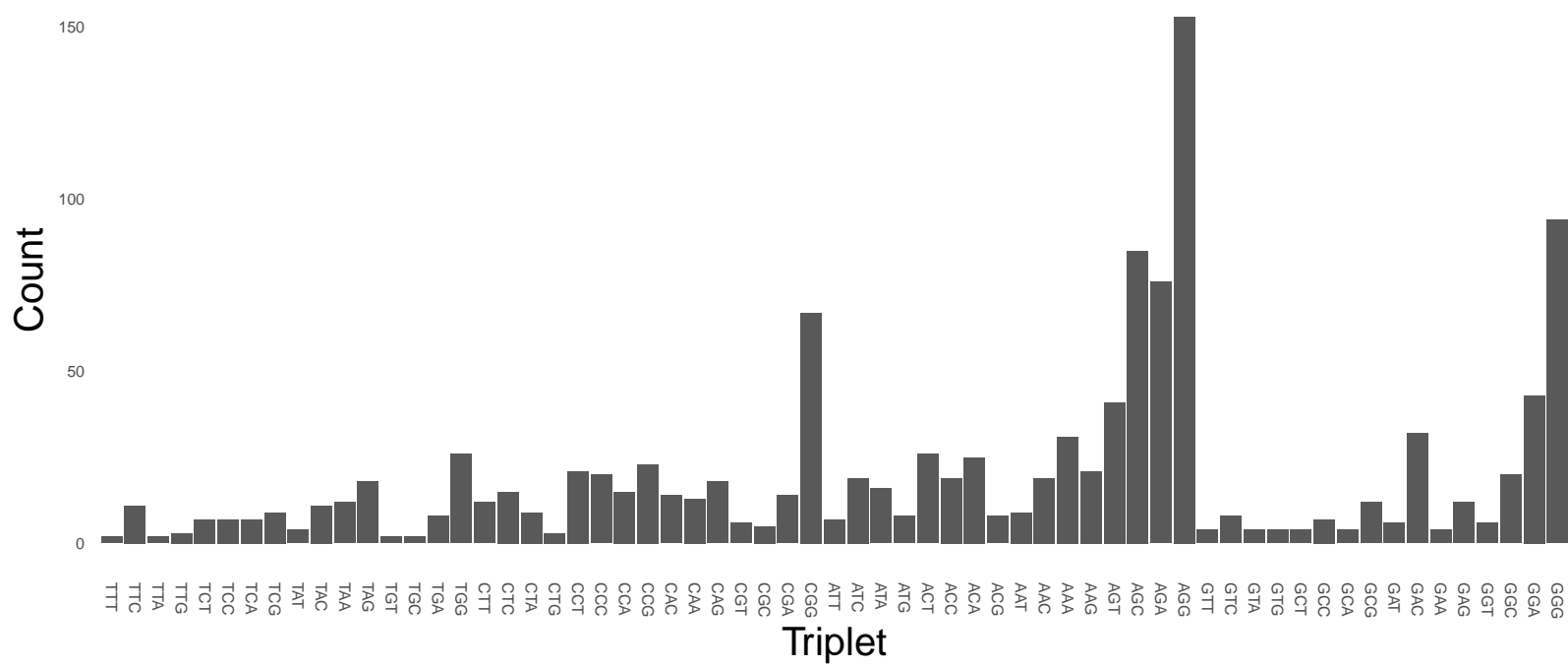
TRBV7-1\*ap01\_G291C\_T296C\_C314T- Final 3 nucleotides as a triplet



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

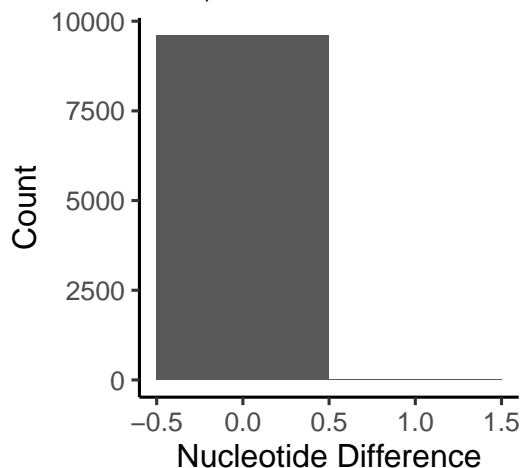


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



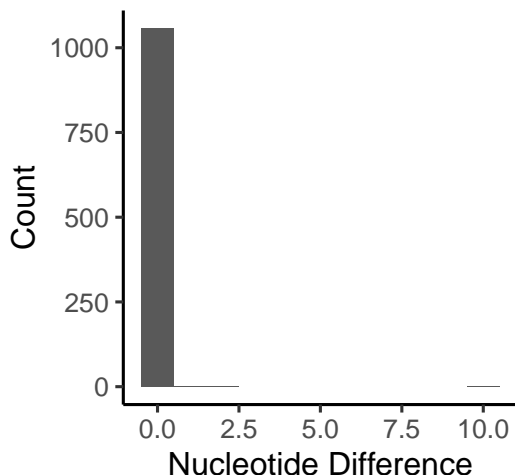
### TRBV20-1\*ap01

9626 sequences assigned  
9611 (99.8%) exact matches, in which:  
9597 unique CDR3  
13 unique J



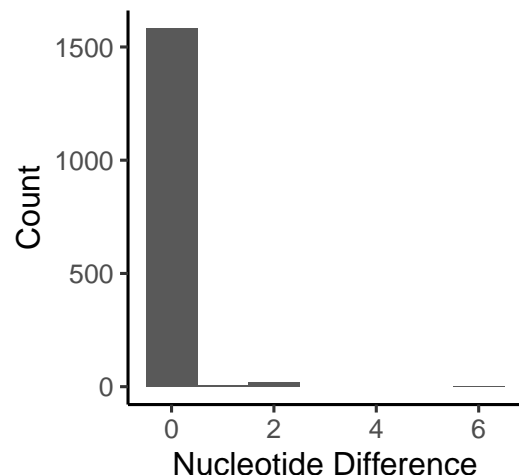
### TRBV10-2\*ap01

1060 sequences assigned  
1057 (99.7%) exact matches, in which:  
1057 unique CDR3  
13 unique J



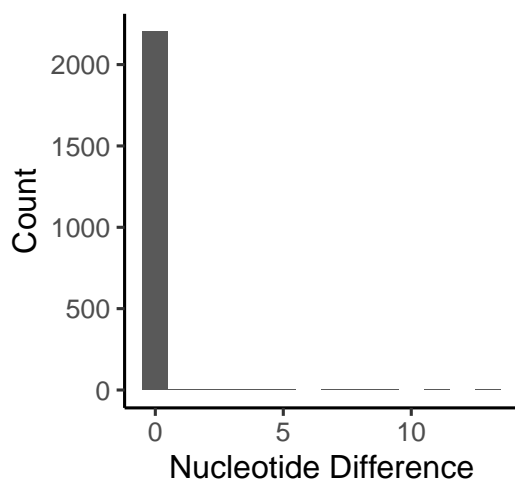
### TRBV13\*ap01

1608 sequences assigned  
1582 (98.4%) exact matches, in which:  
1582 unique CDR3  
13 unique J



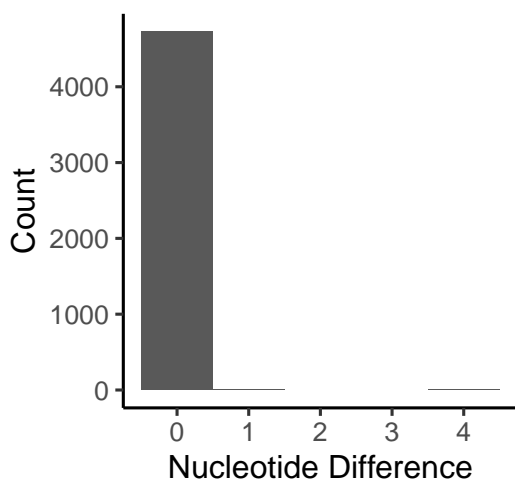
### TRBV10-1\*ap01

2220 sequences assigned  
2202 (99.2%) exact matches, in which:  
2201 unique CDR3  
13 unique J



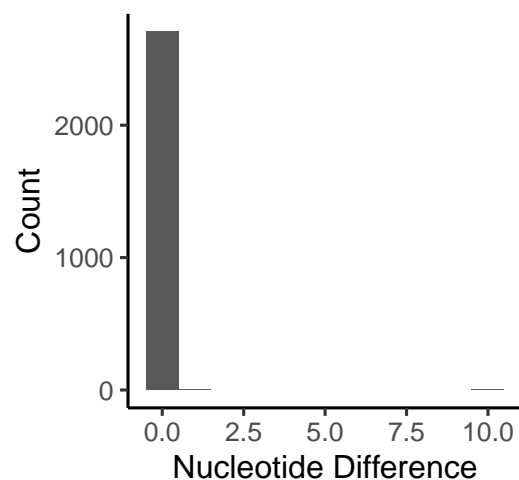
### TRBV10-3\*ap01

4736 sequences assigned  
4726 (99.8%) exact matches, in which:  
4723 unique CDR3  
13 unique J



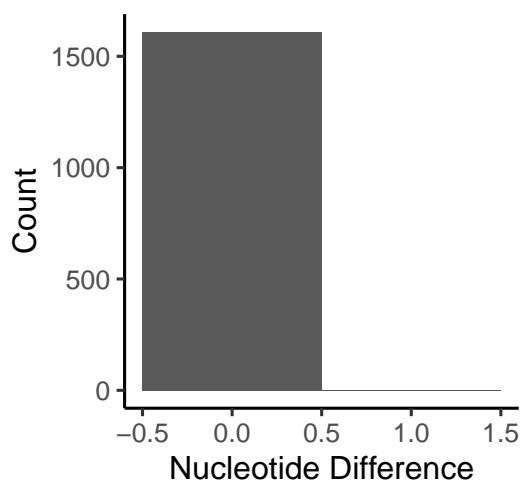
### TRBV14\*ap01

2710 sequences assigned  
2706 (99.9%) exact matches, in which:  
2704 unique CDR3  
13 unique J



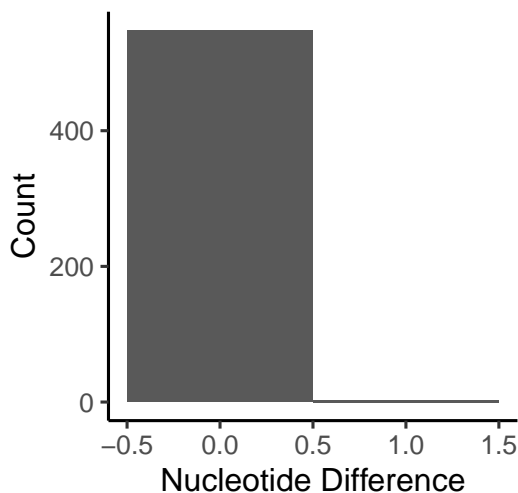
### TRBV20-1\*ap02

1610 sequences assigned  
1609 (99.9%) exact matches, in which:  
1607 unique CDR3  
13 unique J



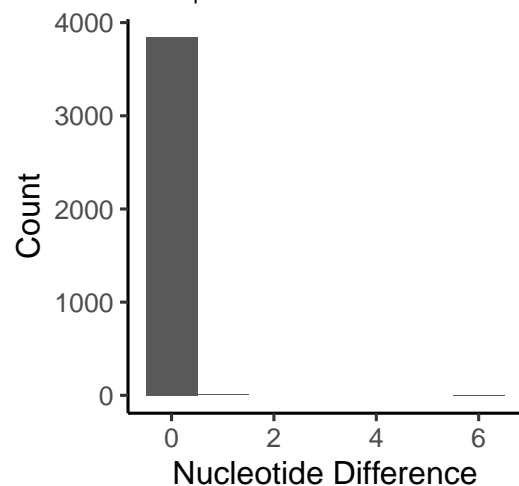
### TRBV1\*ap01

551 sequences assigned  
548 (99.5%) exact matches, in which:  
548 unique CDR3  
13 unique J



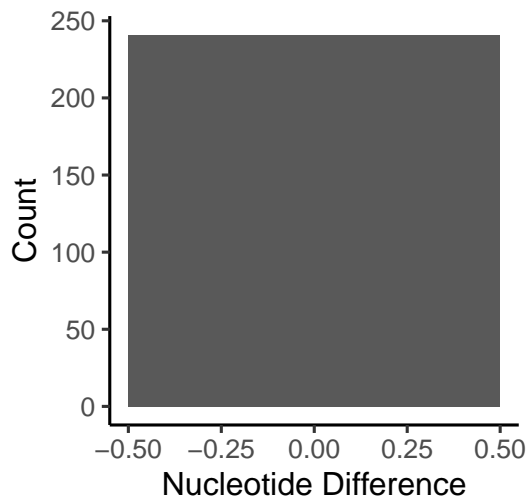
### TRBV15\*ap02

3855 sequences assigned  
3845 (99.7%) exact matches, in which:  
3837 unique CDR3  
13 unique J



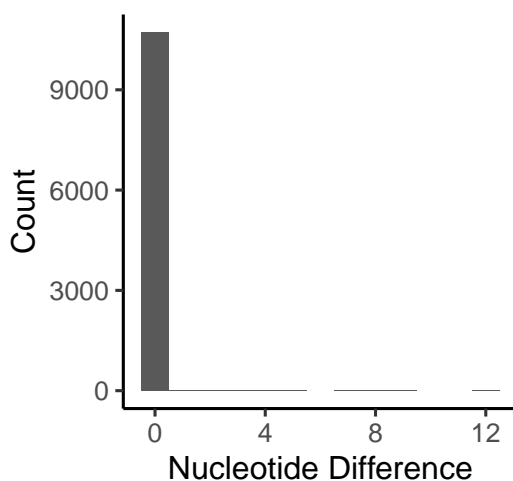
### TRBV16\*ap01

241 sequences assigned  
241 (100%) exact matches, in which:  
241 unique CDR3  
13 unique J



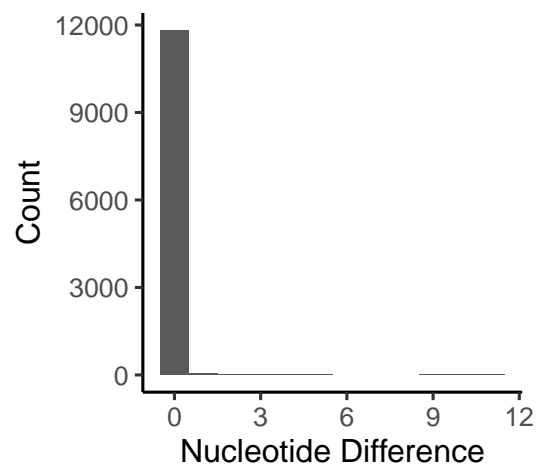
### TRBV19\*ap01

10752 sequences assigned  
10717 (99.7%) exact matches, in which:  
10716 unique CDR3  
13 unique J



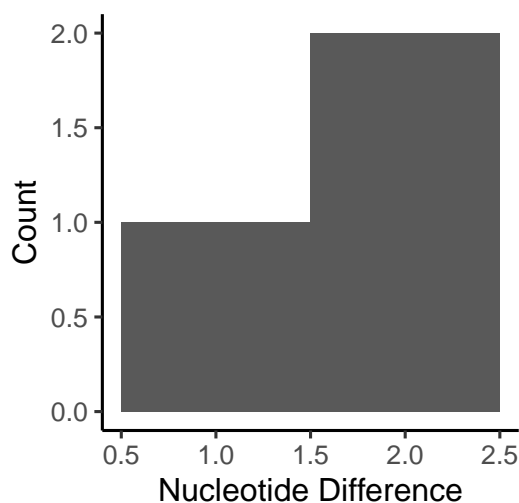
### TRBV27\*ap01

11889 sequences assigned  
11824 (99.5%) exact matches, in which:  
11792 unique CDR3  
13 unique J



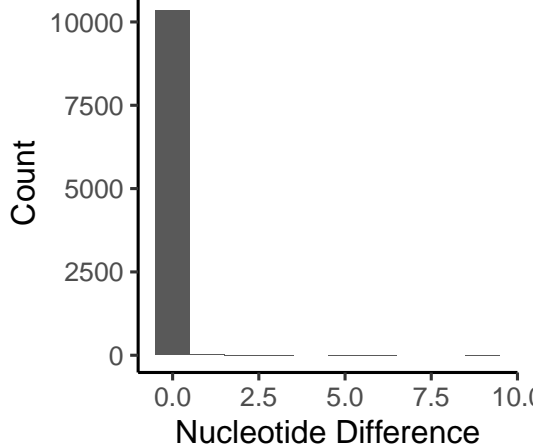
### TRBV17\*ap01

3 sequences assigned  
No exact matches.



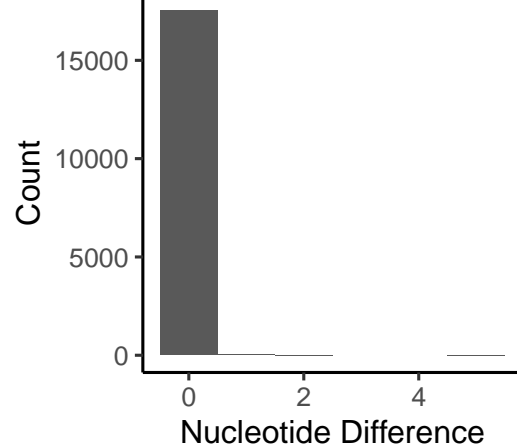
### TRBV2\*ap01

10383 sequences assigned  
10344 (99.6%) exact matches, in which:  
10306 unique CDR3  
13 unique J



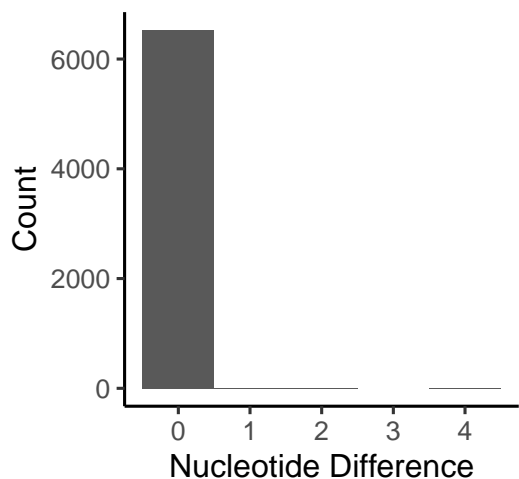
### TRBV28\*ap01

17568 sequences assigned  
17537 (99.8%) exact matches, in which:  
17531 unique CDR3  
13 unique J



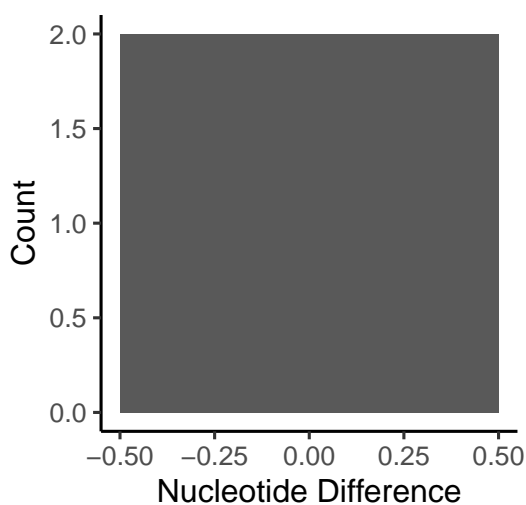
### TRBV18\*ap01

6538 sequences assigned  
6528 (99.8%) exact matches, in which:  
6528 unique CDR3  
13 unique J



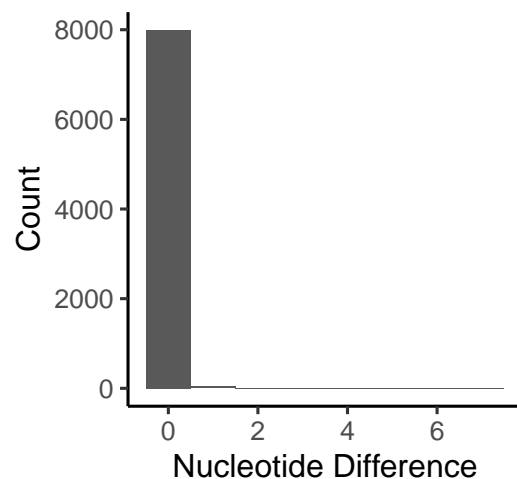
### TRBV26\*ap01

2 sequences assigned  
2 (100%) exact matches, in which:  
2 unique CDR3  
2 unique J



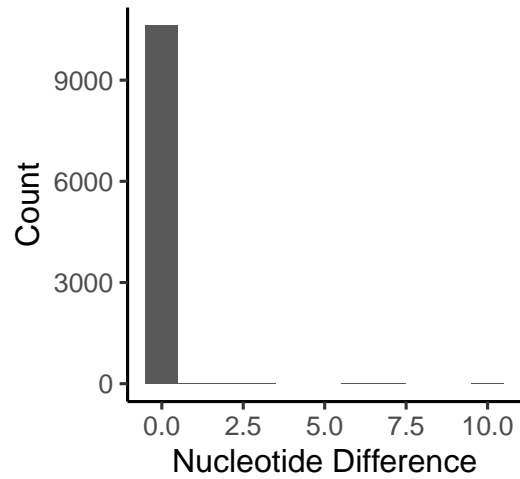
### TRBV30\*ap01

8039 sequences assigned  
7993 (99.4%) exact matches, in which:  
7974 unique CDR3  
13 unique J



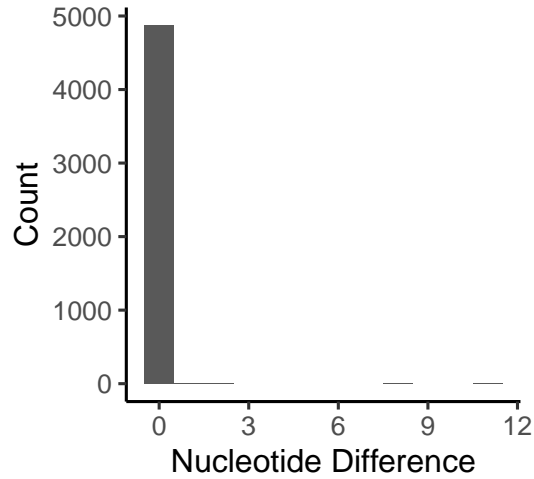
### TRBV9\*ap01

10640 sequences assigned  
10623 (99.8%) exact matches, in which:  
10602 unique CDR3  
13 unique J



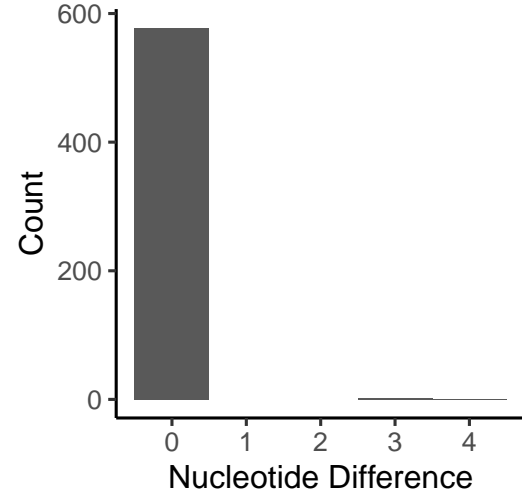
### TRBV11-2\*ap01

4882 sequences assigned  
4872 (99.8%) exact matches, in which:  
4872 unique CDR3  
13 unique J



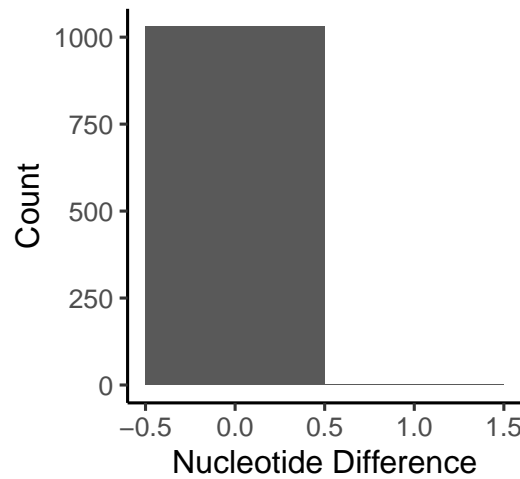
### TRBV12-2\*ap01

581 sequences assigned  
578 (99.5%) exact matches, in which:  
578 unique CDR3  
13 unique J



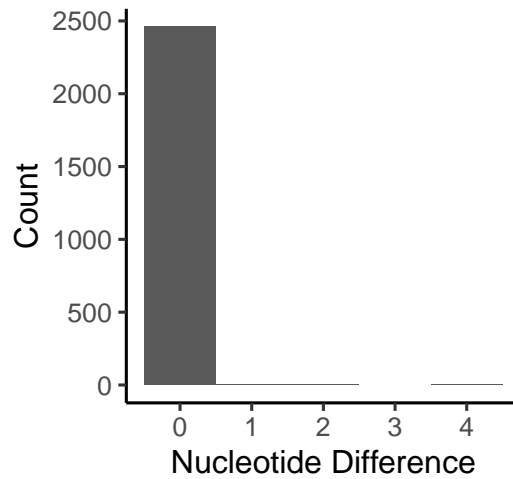
### TRBV11-1\*ap01

1031 sequences assigned  
1030 (99.9%) exact matches, in which:  
1030 unique CDR3  
13 unique J



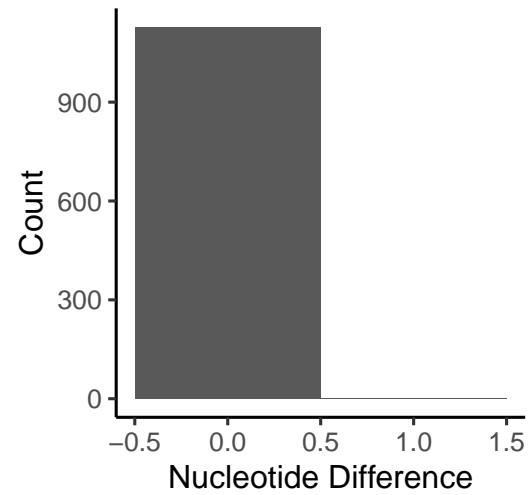
### TRBV11-3\*ap01

2468 sequences assigned  
2460 (99.7%) exact matches, in which:  
2460 unique CDR3  
13 unique J



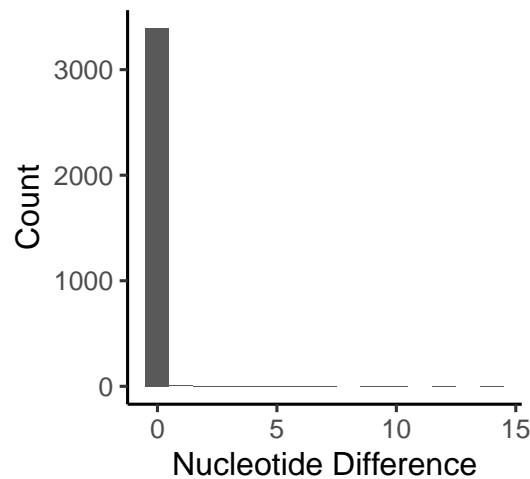
### TRBV12-5\*ap01

1130 sequences assigned  
1128 (99.8%) exact matches, in which:  
1128 unique CDR3  
13 unique J



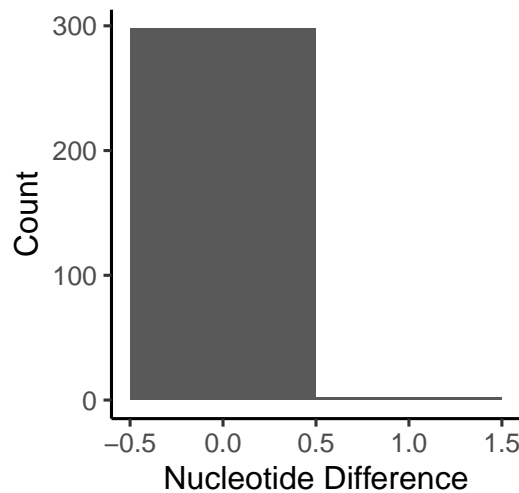
### TRBV21-1\*ap01

3425 sequences assigned  
3394 (99.1%) exact matches, in which:  
3394 unique CDR3  
13 unique J



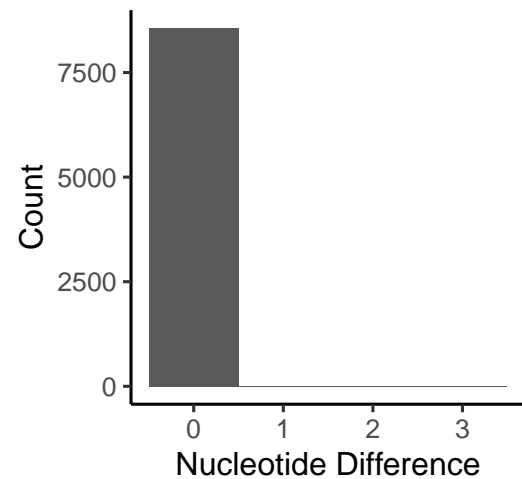
### TRBV12-1\*ap01

300 sequences assigned  
298 (99.3%) exact matches, in which:  
298 unique CDR3  
13 unique J



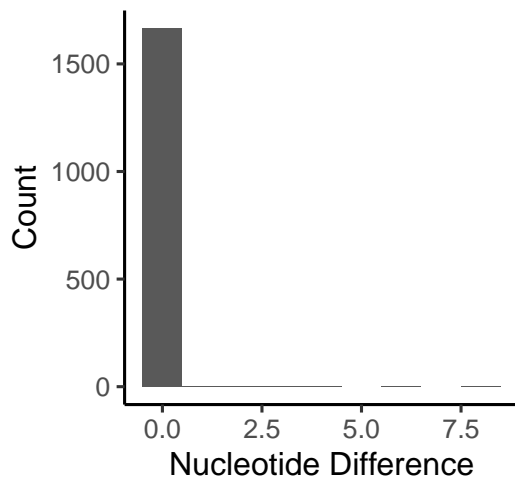
### TRBV12-34\*ap01

8580 sequences assigned  
8563 (99.8%) exact matches, in which:  
8559 unique CDR3  
13 unique J



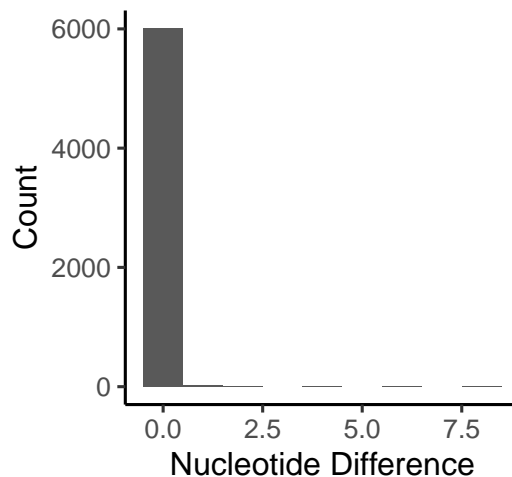
### TRBV23-1\*ap01

1676 sequences assigned  
1665 (99.3%) exact matches, in which:  
1665 unique CDR3  
13 unique J



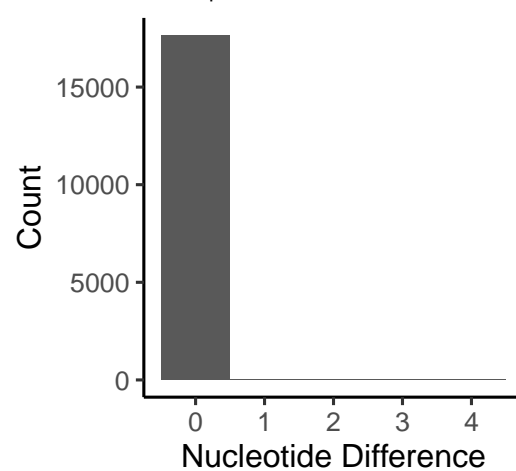
### TRBV24-1\*ap01

6041 sequences assigned  
6008 (99.5%) exact matches, in which:  
6000 unique CDR3  
14 unique J



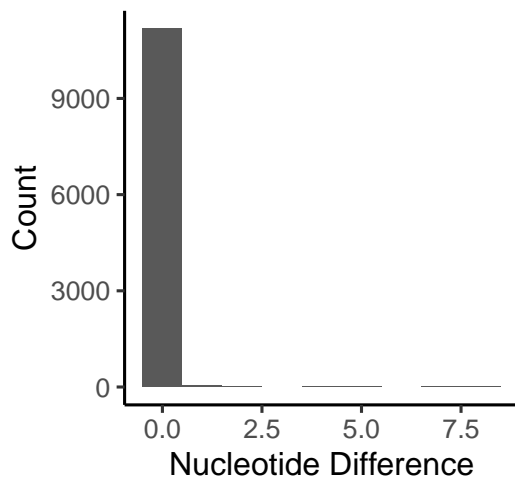
### TRBV5-1\*ap01

17693 sequences assigned  
17659 (99.8%) exact matches, in which:  
17618 unique CDR3  
13 unique J



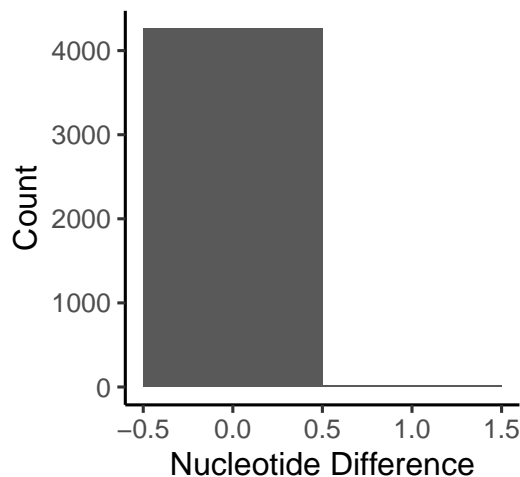
### TRBV3-12\*ap01

11223 sequences assigned  
11174 (99.6%) exact matches, in which:  
11150 unique CDR3  
13 unique J



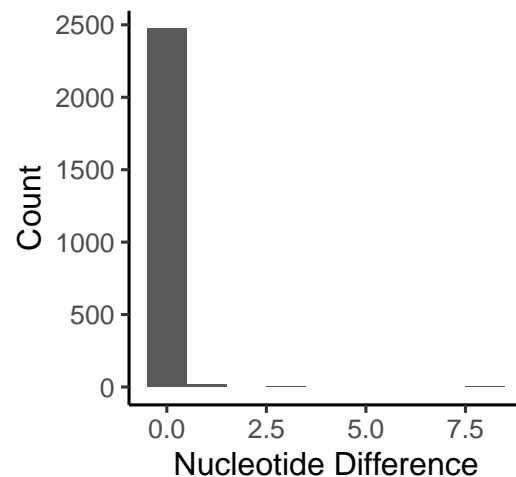
### TRBV4-2\*ap01

4273 sequences assigned  
4260 (99.7%) exact matches, in which:  
4256 unique CDR3  
13 unique J



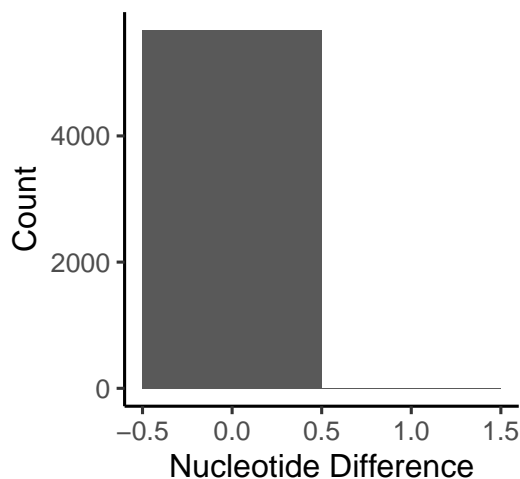
### TRBV25-1\*ap01

2489 sequences assigned  
2473 (99.4%) exact matches, in which:  
2470 unique CDR3  
13 unique J



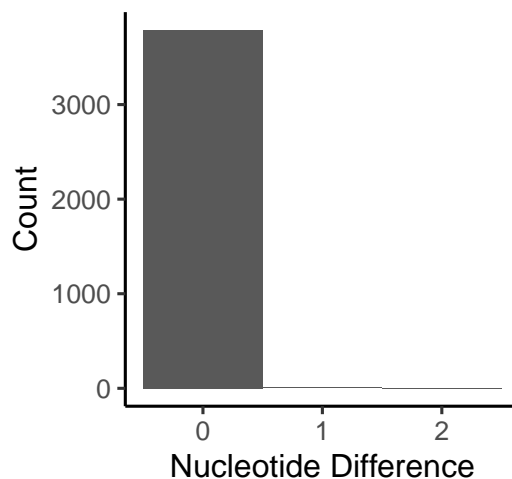
### TRBV4-1\*ap01

5685 sequences assigned  
5678 (99.9%) exact matches, in which:  
5671 unique CDR3  
13 unique J



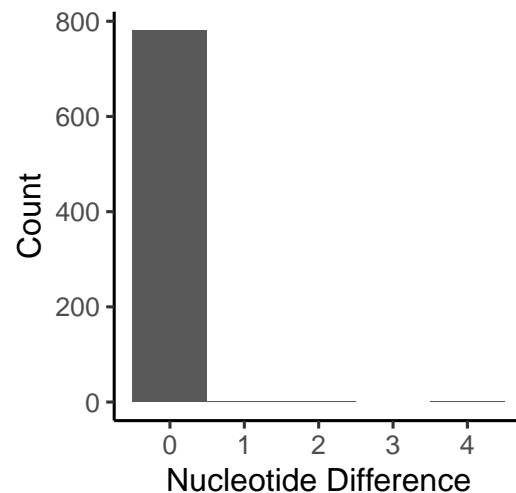
### TRBV4-3\*ap01

3797 sequences assigned  
3788 (99.8%) exact matches, in which:  
3787 unique CDR3  
13 unique J



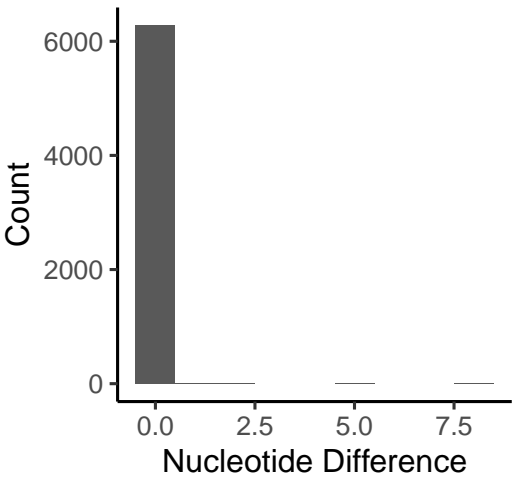
### TRBV5-3\*ap01

784 sequences assigned  
781 (99.6%) exact matches, in which:  
781 unique CDR3  
13 unique J



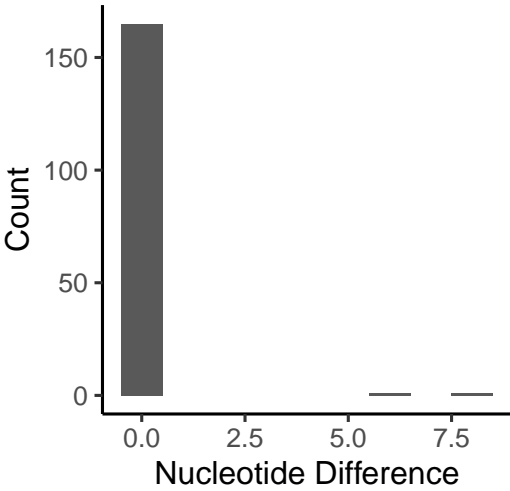
TRBV5-4\*ap01

6294 sequences assigned  
6278 (99.7%) exact matches, in which:  
6278 unique CDR3  
13 unique J



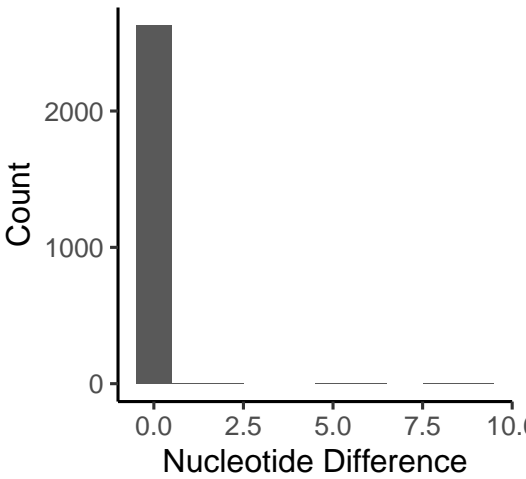
TRBV5-7\*ap01

167 sequences assigned  
165 (98.8%) exact matches, in which:  
164 unique CDR3  
13 unique J



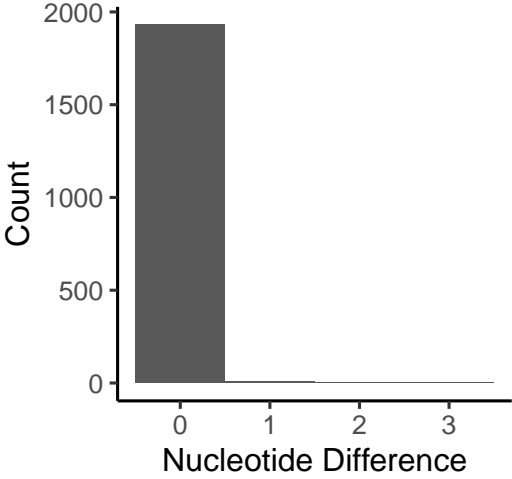
TRBV6-4\*ap01

2644 sequences assigned  
2628 (99.4%) exact matches, in which:  
2627 unique CDR3  
13 unique J



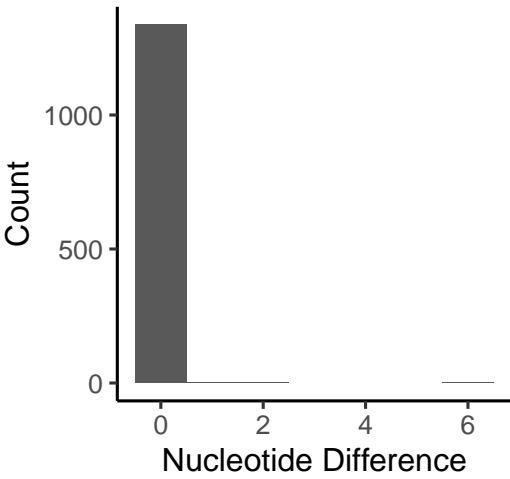
TRBV5-5\*ap01

1943 sequences assigned  
1931 (99.4%) exact matches, in which:  
1928 unique CDR3  
13 unique J



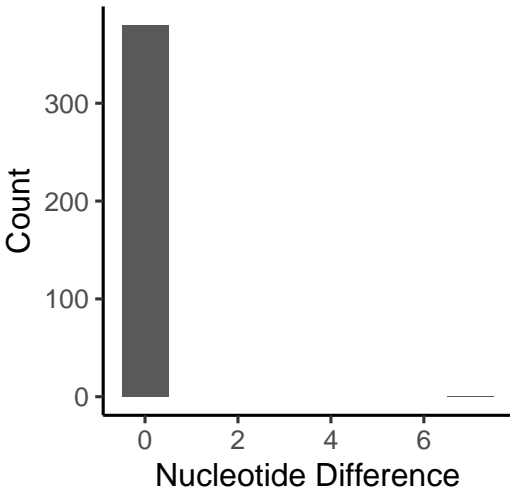
TRBV5-8\*ap01

1344 sequences assigned  
1337 (99.5%) exact matches, in which:  
1336 unique CDR3  
13 unique J



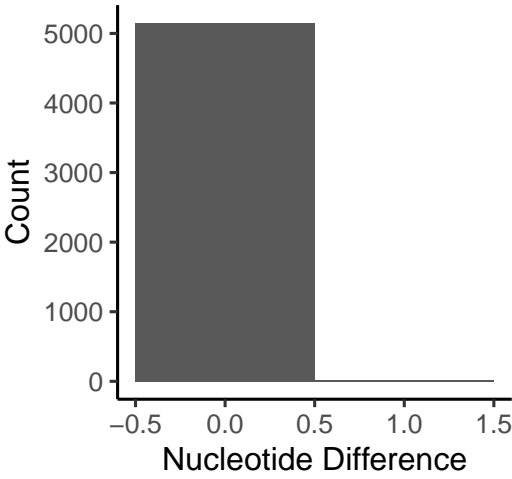
TRBV6-7\*ap01

381 sequences assigned  
380 (99.7%) exact matches, in which:  
380 unique CDR3  
13 unique J



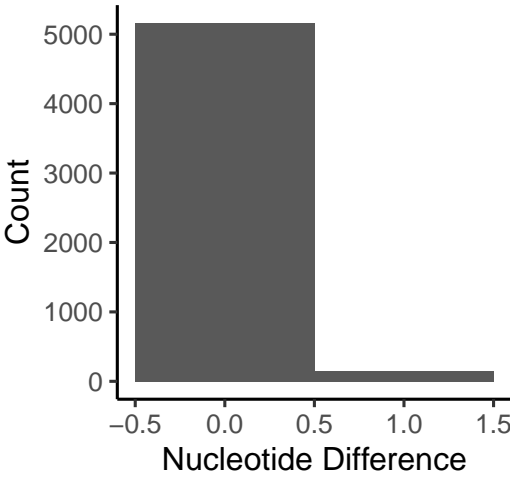
TRBV5-6\*ap01

5165 sequences assigned  
5149 (99.7%) exact matches, in which:  
5138 unique CDR3  
13 unique J



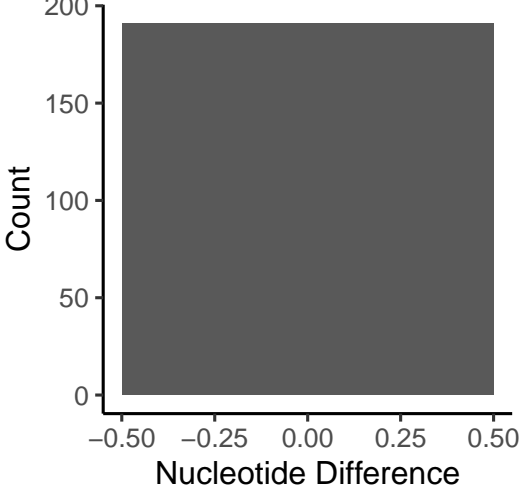
TRBV6-1\*ap01

5311 sequences assigned  
5161 (97.2%) exact matches, in which:  
5154 unique CDR3  
13 unique J



TRBV6-8\*ap01

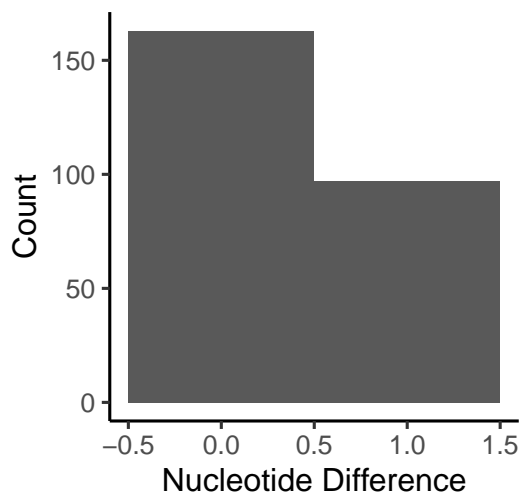
191 sequences assigned  
191 (100%) exact matches, in which:  
191 unique CDR3  
13 unique J





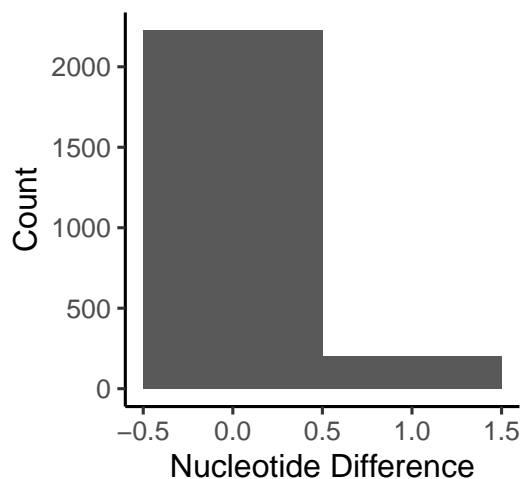
### TRBV6–9\*ap01

260 sequences assigned  
163 (62.7%) exact matches, in which:  
162 unique CDR3  
13 unique J



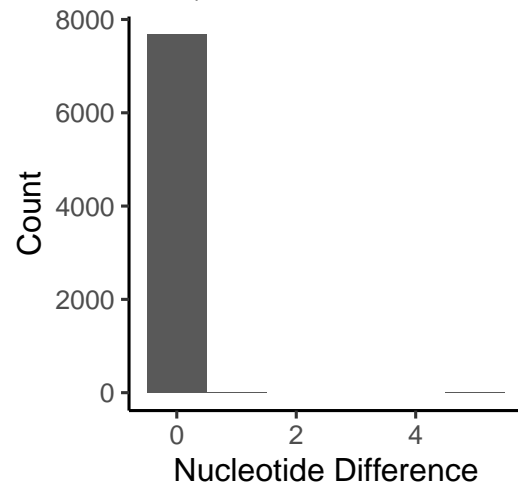
### TRBV6–56\*ap02

2431 sequences assigned  
2226 (91.6%) exact matches, in which:  
2221 unique CDR3  
13 unique J



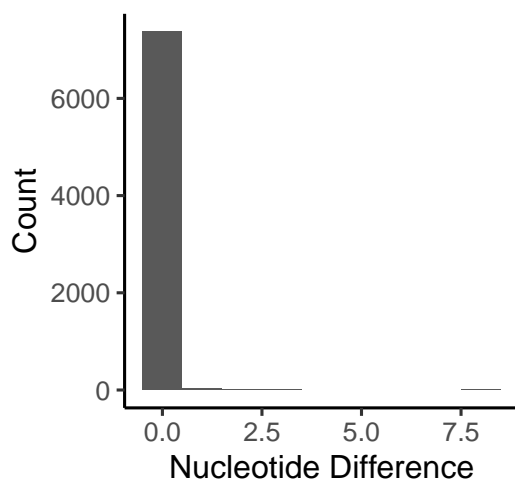
### TRBV7–2\*ap01

7696 sequences assigned  
7680 (99.8%) exact matches, in which:  
7679 unique CDR3  
13 unique J



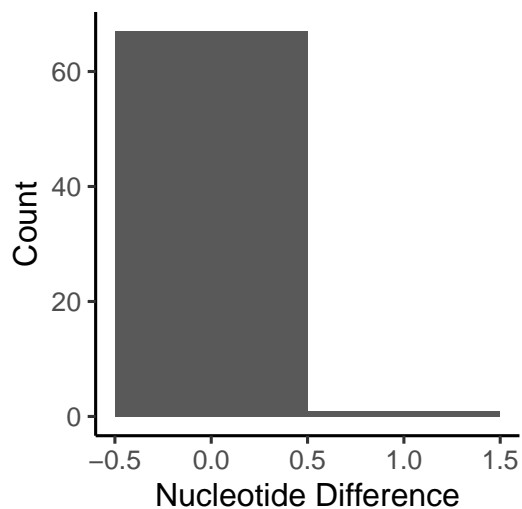
### TRBV6–23\*ap01

7401 sequences assigned  
7372 (99.6%) exact matches, in which:  
7350 unique CDR3  
13 unique J



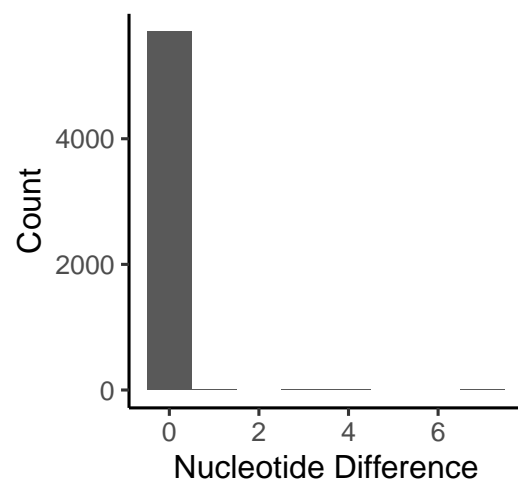
### TRBV7–1\*ap01\_G291C\_T

68 sequences assigned  
67 (98.5%) exact matches, in which:  
67 unique CDR3  
12 unique J



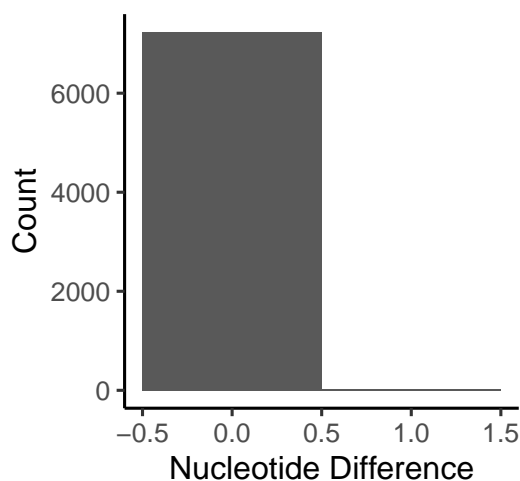
### TRBV7–3\*ap01

5720 sequences assigned  
5704 (99.7%) exact matches, in which:  
5685 unique CDR3  
13 unique J



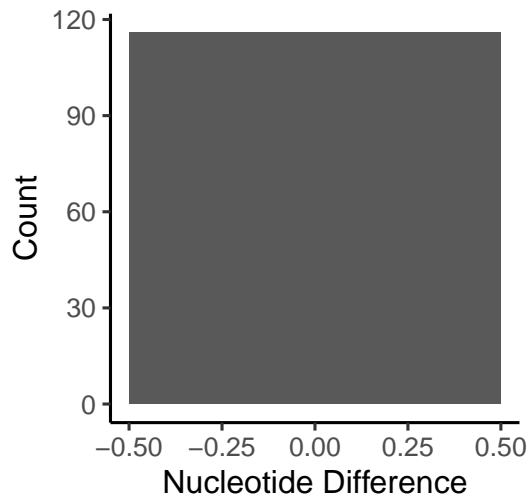
### TRBV6–56\*ap01

7256 sequences assigned  
7235 (99.7%) exact matches, in which:  
7224 unique CDR3  
13 unique J



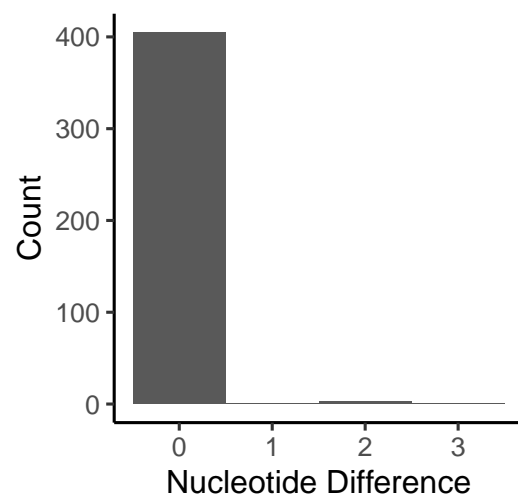
### TRBV7–1\*ap01\_G291C\_

116 sequences assigned  
116 (100%) exact matches, in which:  
116 unique CDR3  
13 unique J



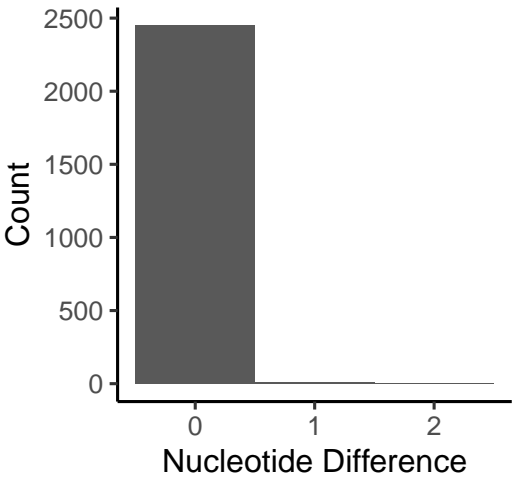
### TRBV7–4\*ap01

410 sequences assigned  
405 (98.8%) exact matches, in which:  
405 unique CDR3  
13 unique J



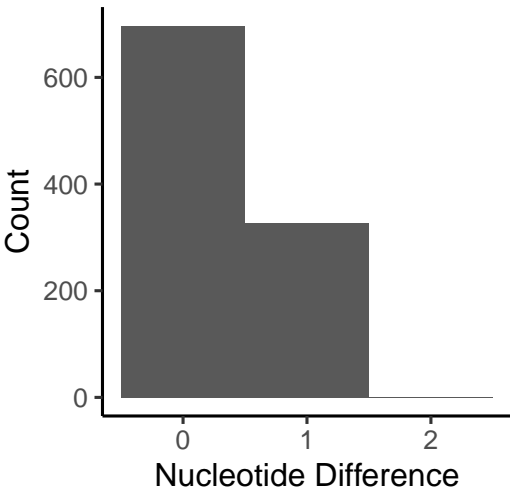
TRBV7-6\*ap01

2460 sequences assigned  
2450 (99.6%) exact matches, in which:  
2450 unique CDR3  
13 unique J



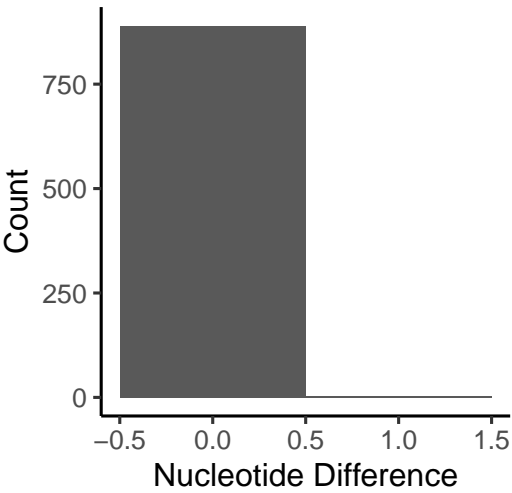
TRBV7-8\*ap03

1025 sequences assigned  
697 (68%) exact matches, in which:  
697 unique CDR3  
13 unique J



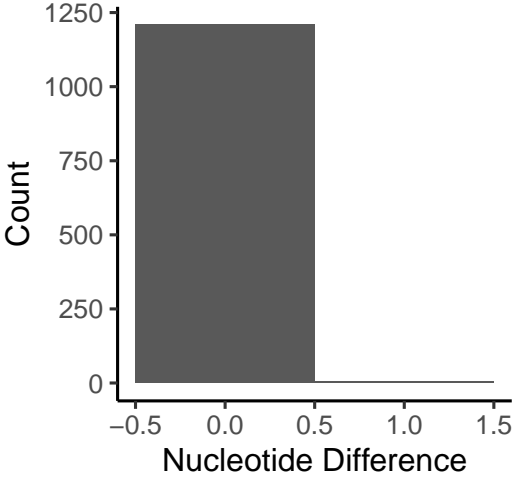
TRBV29-1\*ap02

894 sequences assigned  
890 (99.6%) exact matches, in which:  
888 unique CDR3  
13 unique J



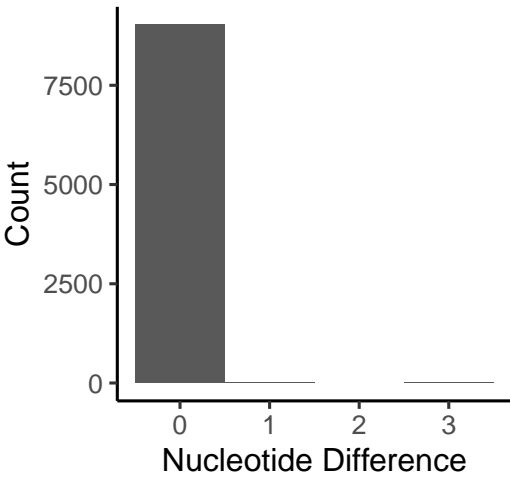
TRBV7-7\*ap01\_C315T

1213 sequences assigned  
1209 (99.7%) exact matches, in which:  
1208 unique CDR3  
13 unique J



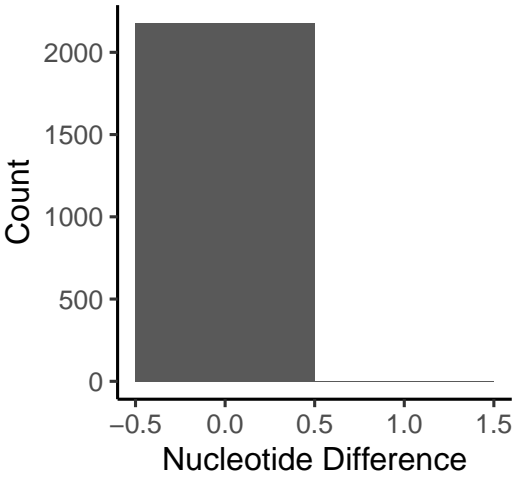
TRBV7-9\*ap01

9037 sequences assigned  
9026 (99.9%) exact matches, in which:  
9024 unique CDR3  
13 unique J



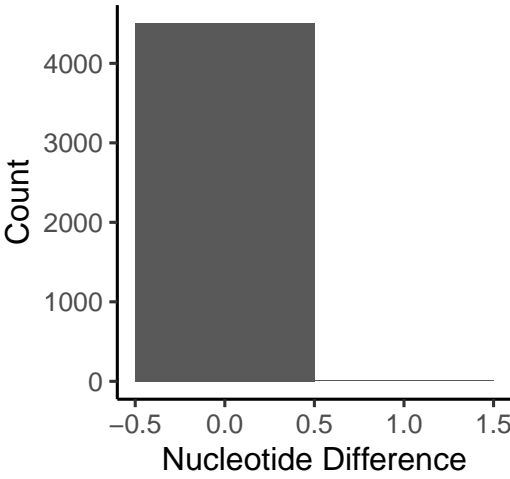
TRBV7-8\*ap01

2180 sequences assigned  
2178 (99.9%) exact matches, in which:  
2177 unique CDR3  
13 unique J

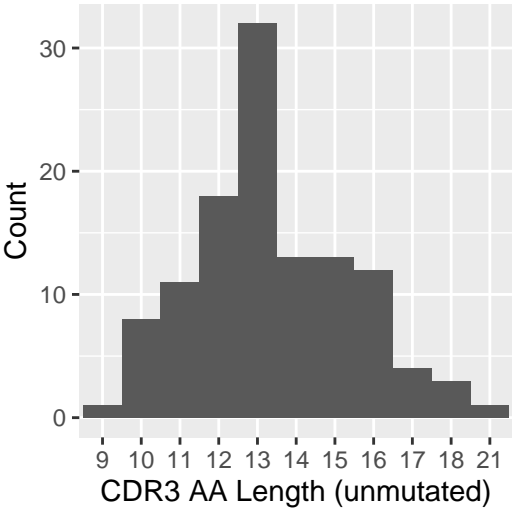


TRBV29-1\*ap01

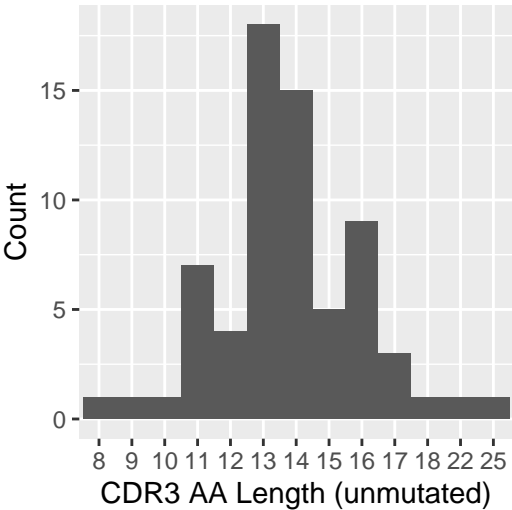
4518 sequences assigned  
4507 (99.8%) exact matches, in which:  
4494 unique CDR3  
13 unique J



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



TRBV7-1\*ap01\_G291C\_T296C



TRBV7-7\*ap01\_C315T

