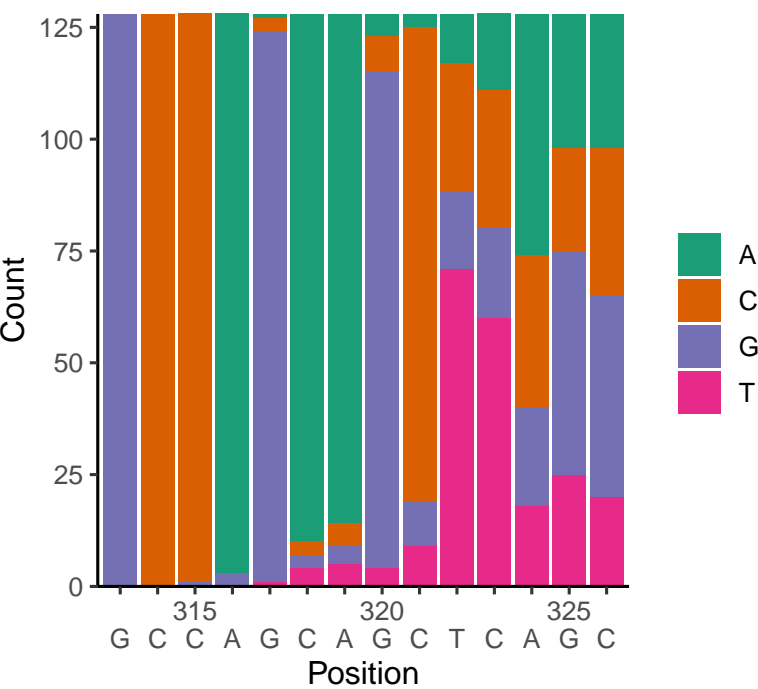
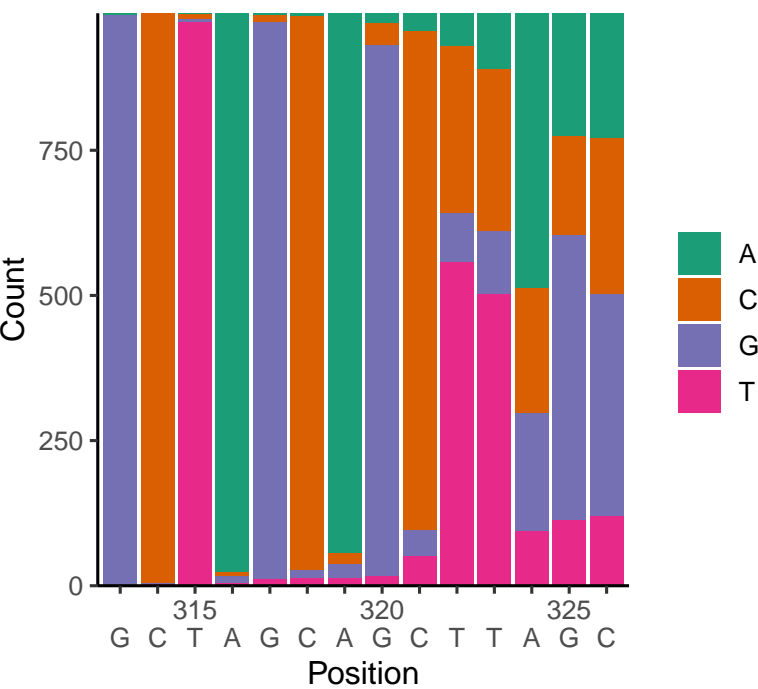


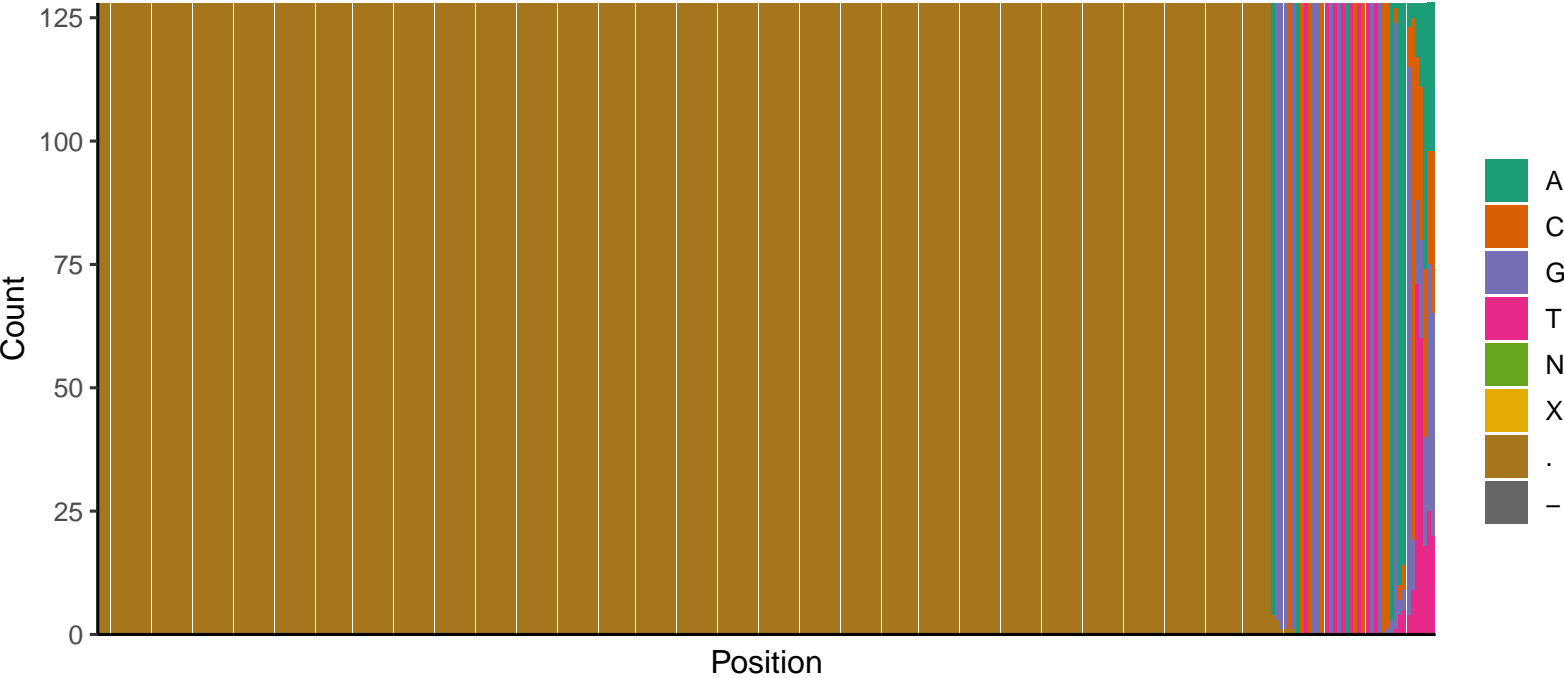
Gene TRBV7-1\*ap01\_G291C\_T296C



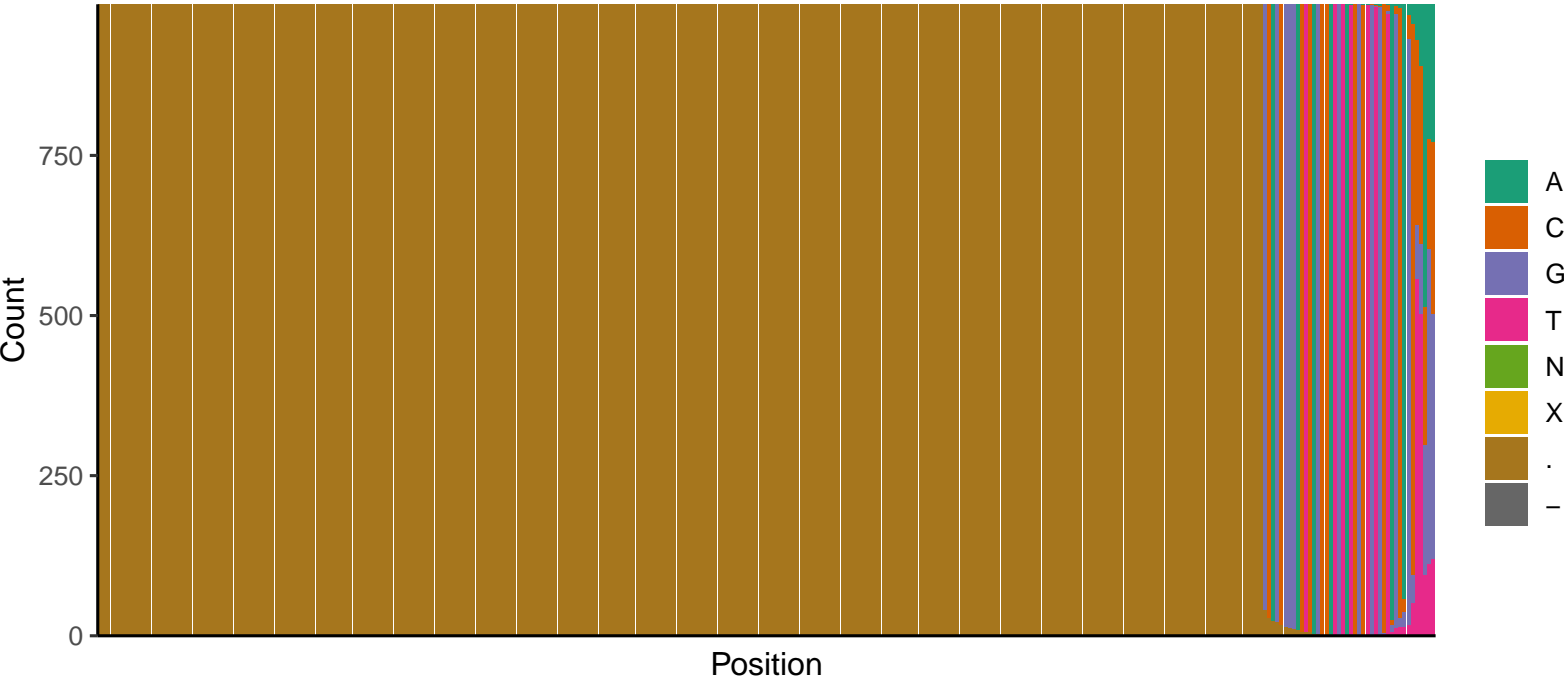
Gene TRBV7-7\*ap01\_C315T



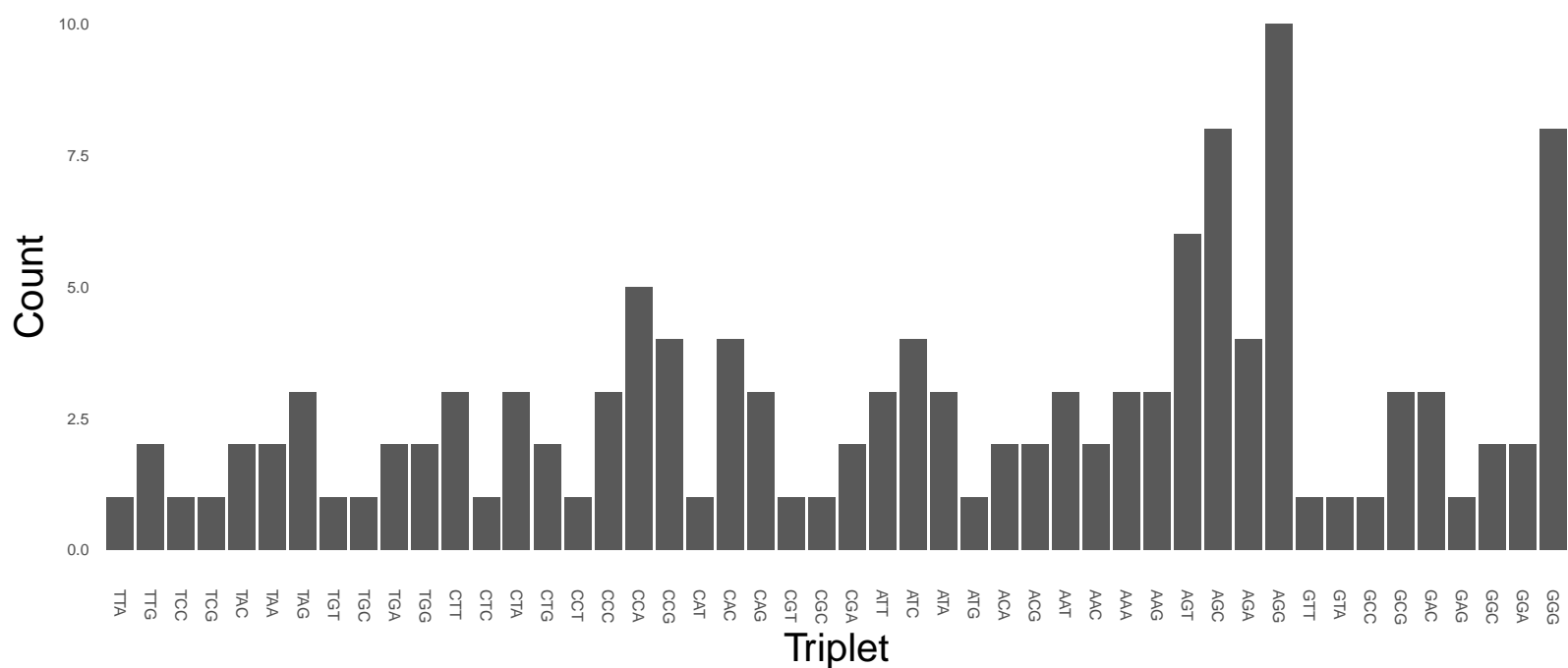
Gene TRBV7-1\*ap01\_G291C\_T296C



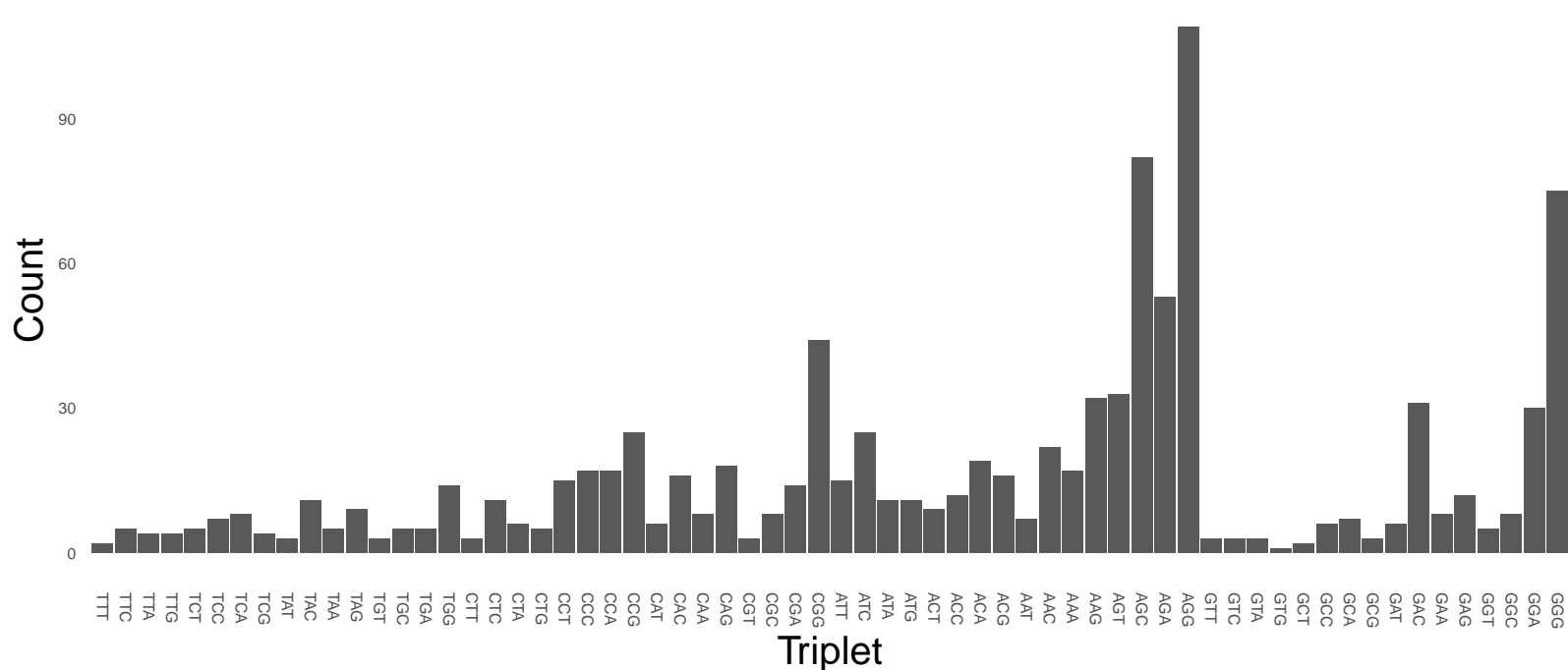
Gene TRBV7-7\*ap01\_C315T



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

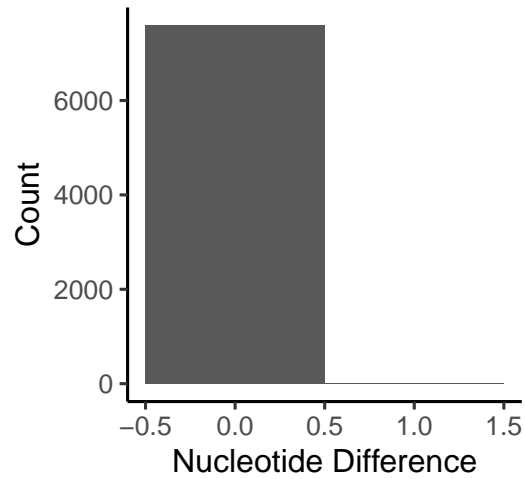


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



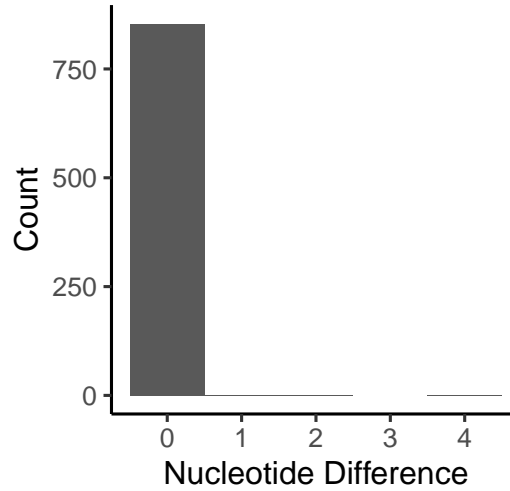
### TRBV20-1\*ap01

7603 sequences assigned  
7592 (99.9%) exact matches, in which:  
7577 unique CDR3  
13 unique J



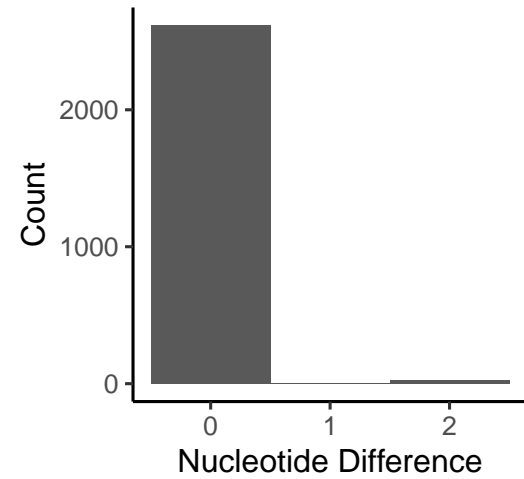
### TRBV10-2\*ap01

857 sequences assigned  
854 (99.6%) exact matches, in which:  
854 unique CDR3  
13 unique J



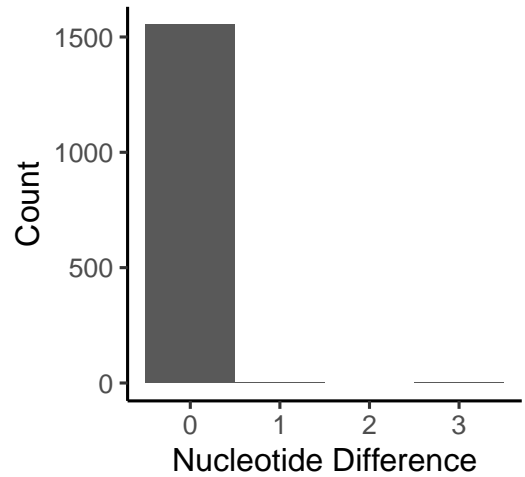
### TRBV13\*ap01

2643 sequences assigned  
2616 (99%) exact matches, in which:  
2613 unique CDR3  
13 unique J



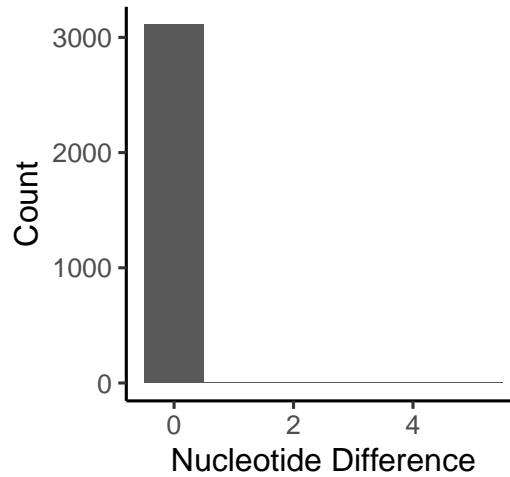
### TRBV10-1\*ap01

1555 sequences assigned  
1553 (99.9%) exact matches, in which:  
1552 unique CDR3  
13 unique J



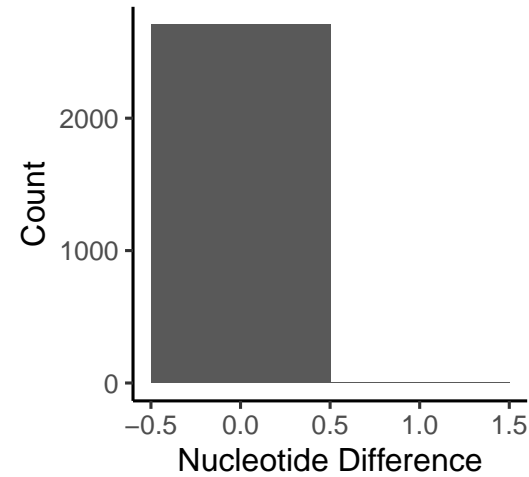
### TRBV10-3\*ap01

3122 sequences assigned  
3110 (99.6%) exact matches, in which:  
3109 unique CDR3  
13 unique J



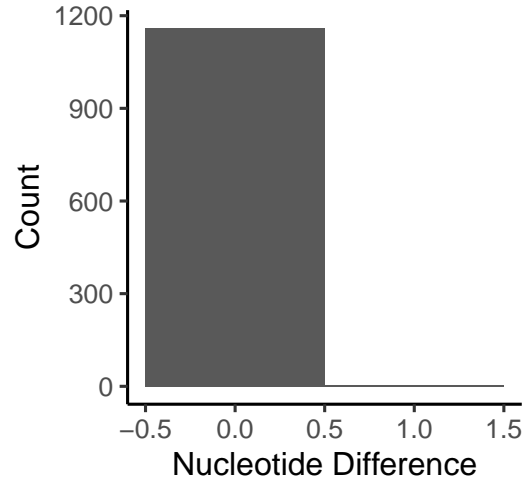
### TRBV14\*ap01

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



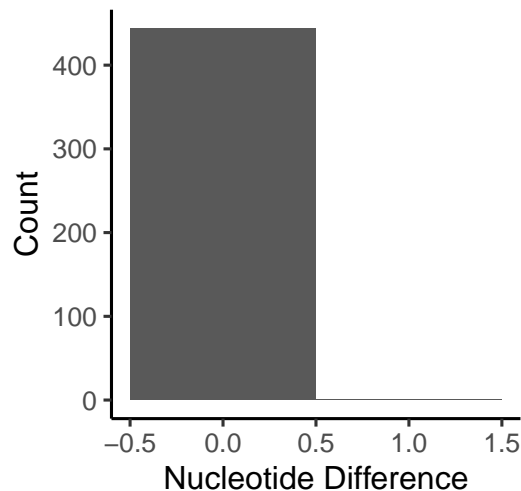
### TRBV20-1\*ap02

1165 sequences assigned  
1160 (99.6%) exact matches, in which:  
1159 unique CDR3  
13 unique J



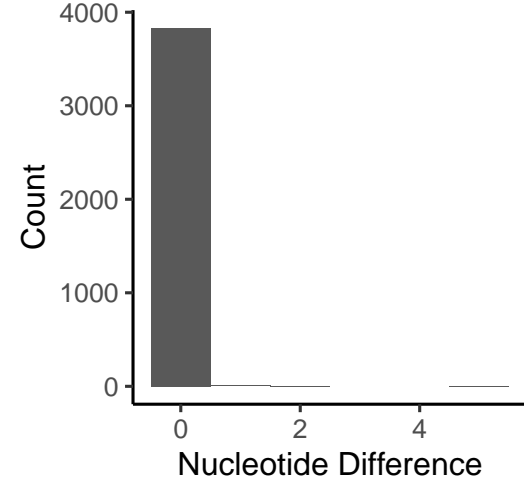
### TRBV1\*ap01

445 sequences assigned  
444 (99.8%) exact matches, in which:  
444 unique CDR3  
13 unique J



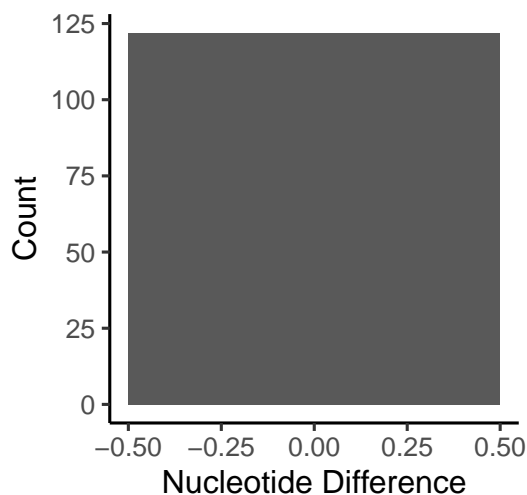
### TRBV15\*ap02

3842 sequences assigned  
3831 (99.7%) exact matches, in which:  
3821 unique CDR3  
13 unique J



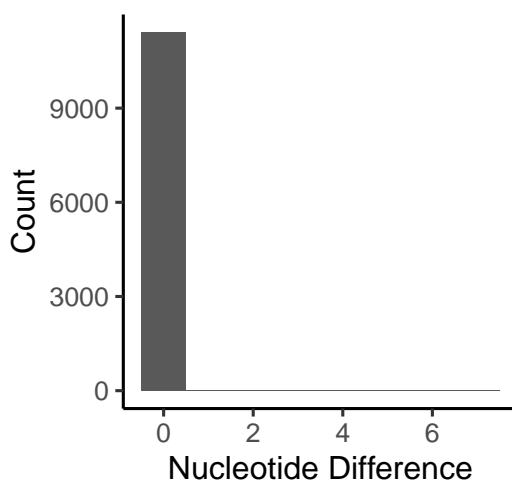
### TRBV16\*ap01

122 sequences assigned  
122 (100%) exact matches, in which:  
122 unique CDR3  
13 unique J



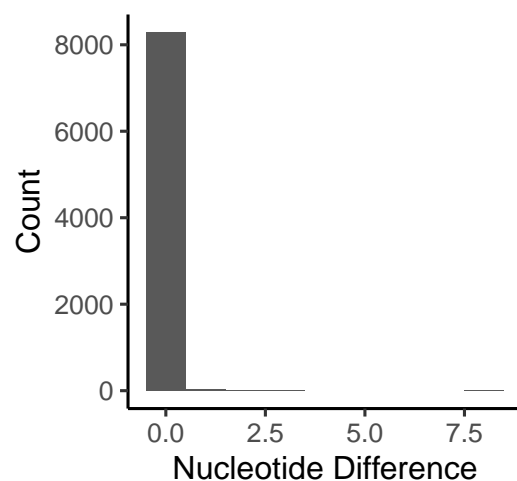
### TRBV19\*ap01

11442 sequences assigned  
11412 (99.7%) exact matches, in which:  
11412 unique CDR3  
13 unique J



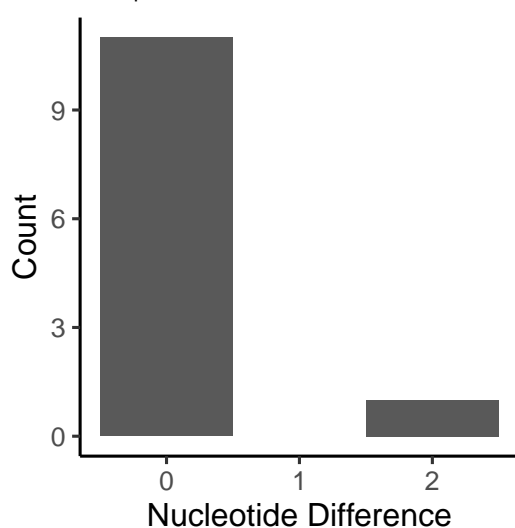
### TRBV27\*ap01

8319 sequences assigned  
8286 (99.6%) exact matches, in which:  
8265 unique CDR3  
13 unique J



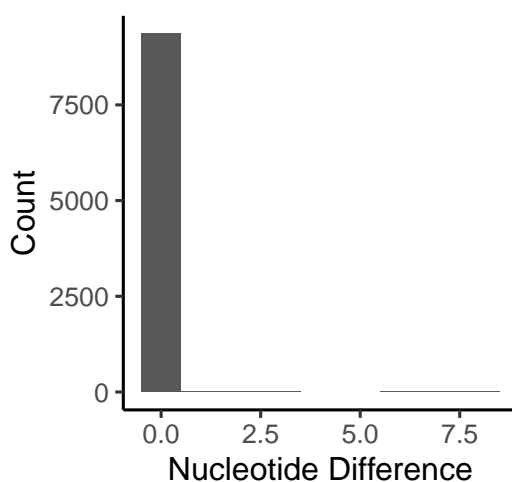
### TRBV17\*ap01

12 sequences assigned  
11 (91.7%) exact matches, in which:  
11 unique CDR3  
7 unique J



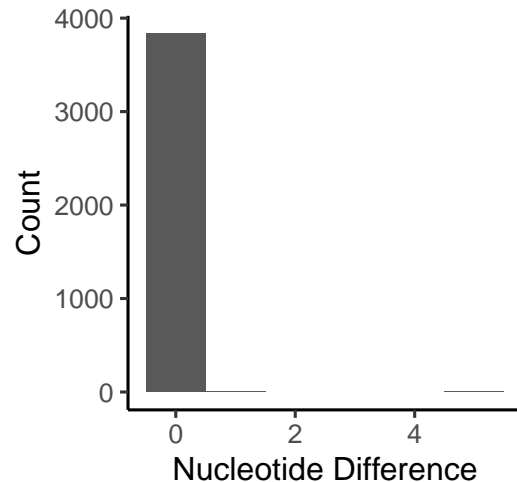
### TRBV2\*ap01

9391 sequences assigned  
9359 (99.7%) exact matches, in which:  
9338 unique CDR3  
13 unique J



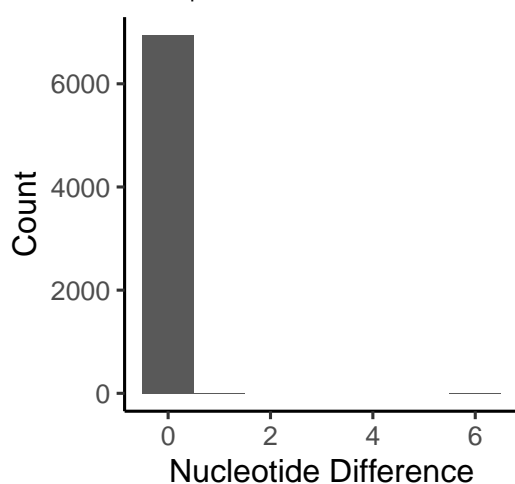
### TRBV28\*ap01

3842 sequences assigned  
3833 (99.8%) exact matches, in which:  
3833 unique CDR3  
13 unique J



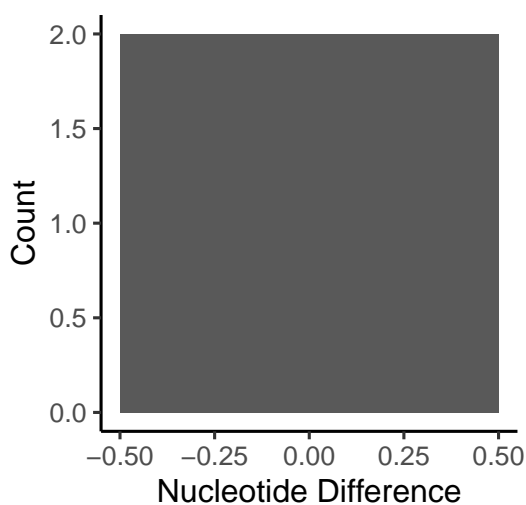
### TRBV18\*ap01

6950 sequences assigned  
6945 (99.9%) exact matches, in which:  
6943 unique CDR3  
13 unique J



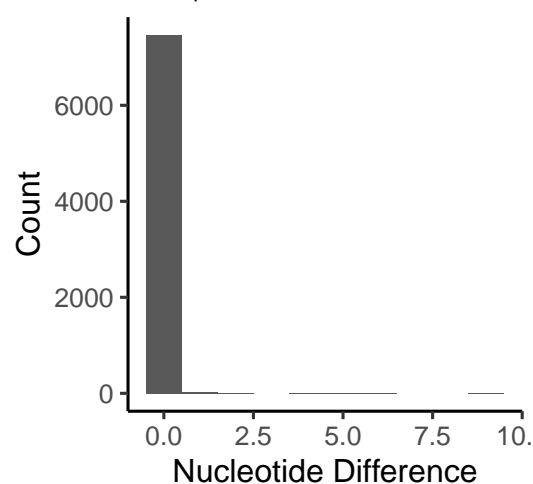
### TRBV26\*ap01

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



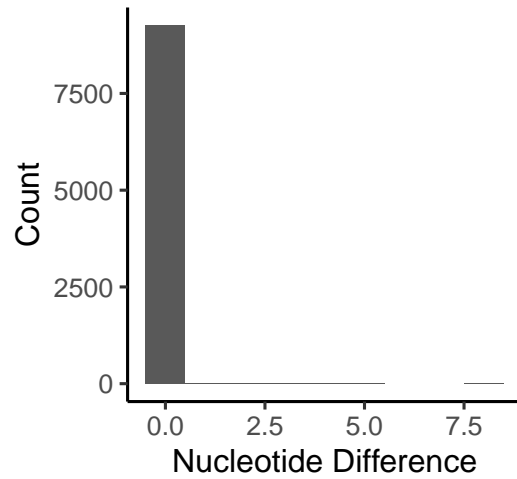
### TRBV30\*ap01

7501 sequences assigned  
7463 (99.5%) exact matches, in which:  
7445 unique CDR3  
13 unique J



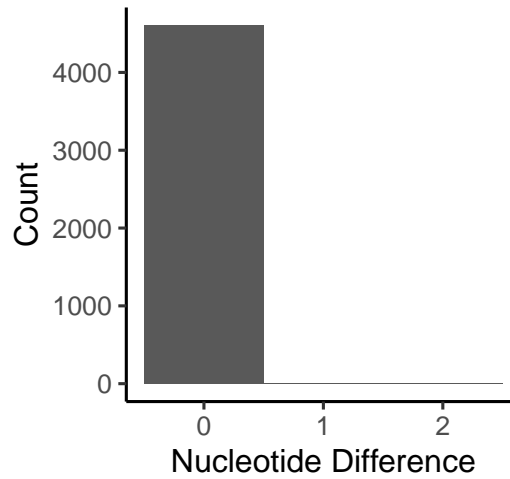
### TRBV9\*ap01

9278 sequences assigned  
9258 (99.8%) exact matches, in which:  
9249 unique CDR3  
13 unique J



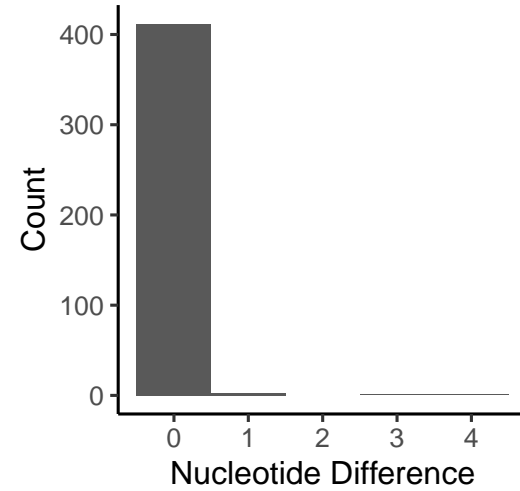
### TRBV11-2\*ap01

4610 sequences assigned  
4604 (99.9%) exact matches, in which:  
4604 unique CDR3  
13 unique J



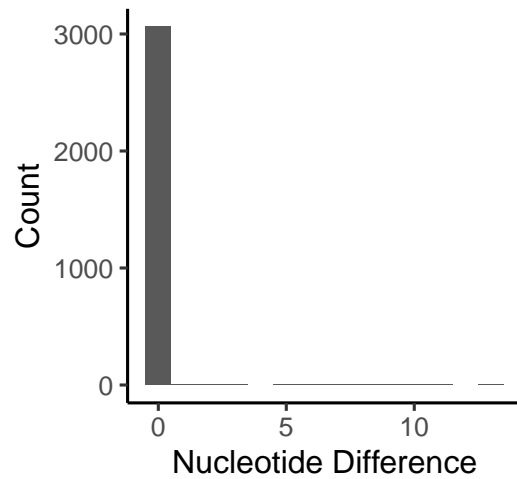
### TRBV12-2\*ap01

417 sequences assigned  
412 (98.8%) exact matches, in which:  
412 unique CDR3  
13 unique J



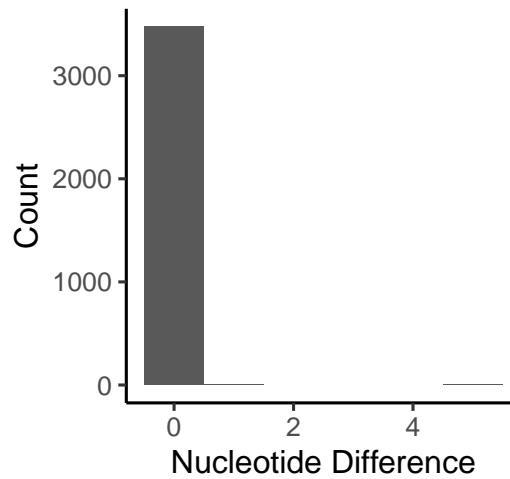
### TRBV21-1\*ap01

3092 sequences assigned  
3062 (99%) exact matches, in which:  
3062 unique CDR3  
13 unique J



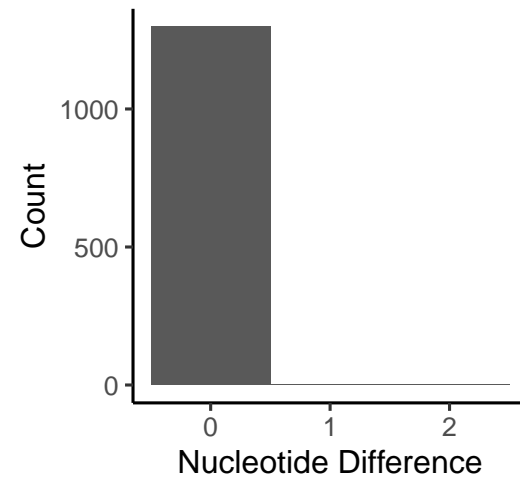
### TRBV11-3\*ap01

3478 sequences assigned  
3475 (99.9%) exact matches, in which:  
3475 unique CDR3  
13 unique J



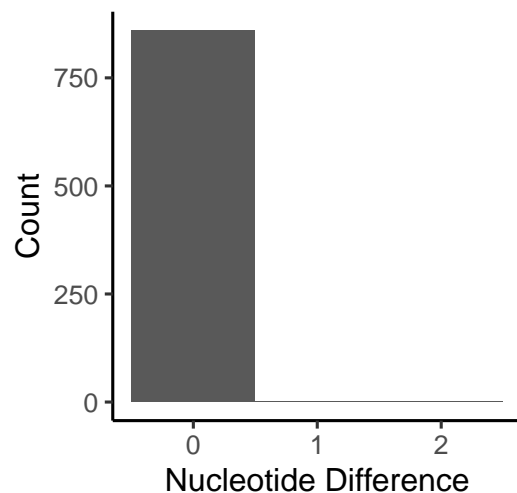
### TRBV12-5\*ap01

1303 sequences assigned  
1298 (99.6%) exact matches, in which:  
1298 unique CDR3  
13 unique J



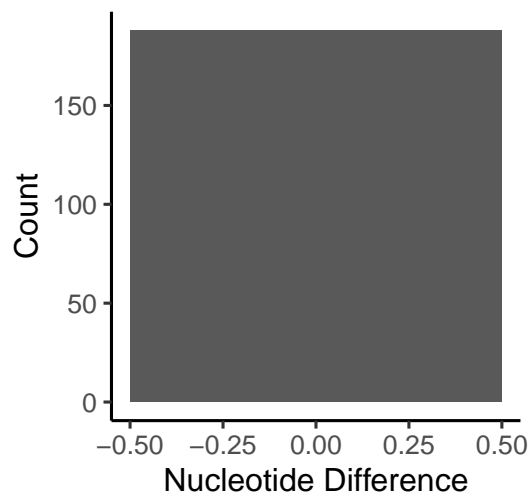
### TRBV11-1\*ap01

863 sequences assigned  
860 (99.7%) exact matches, in which:  
860 unique CDR3  
13 unique J



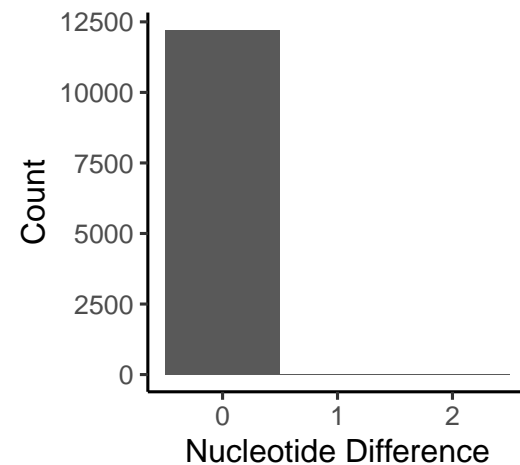
### TRBV12-1\*ap01

188 sequences assigned  
188 (100%) exact matches, in which:  
188 unique CDR3  
13 unique J



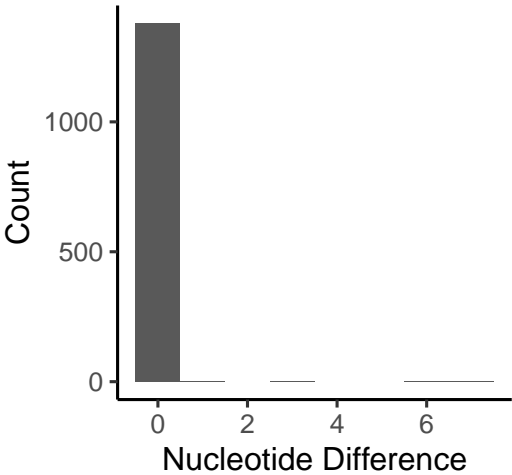
### TRBV12-34\*ap01

12238 sequences assigned  
12219 (99.8%) exact matches, in which:  
12213 unique CDR3  
13 unique J



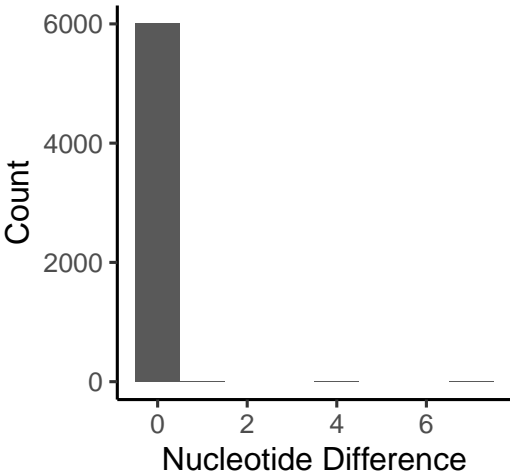
TRBV23-1\*ap01

1386 sequences assigned  
1379 (99.5%) exact matches, in which:  
1379 unique CDR3  
13 unique J



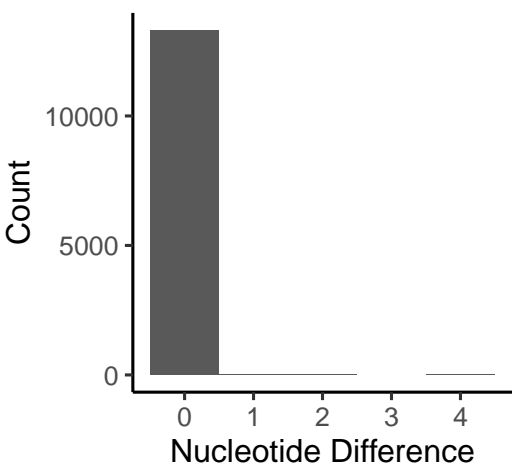
TRBV4-1\*ap01

6018 sequences assigned  
6008 (99.8%) exact matches, in which:  
6005 unique CDR3  
13 unique J



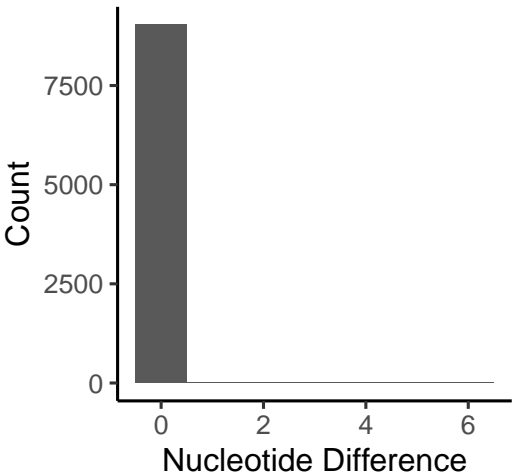
TRBV5-1\*ap01

13333 sequences assigned  
13313 (99.8%) exact matches, in which:  
13287 unique CDR3  
13 unique J



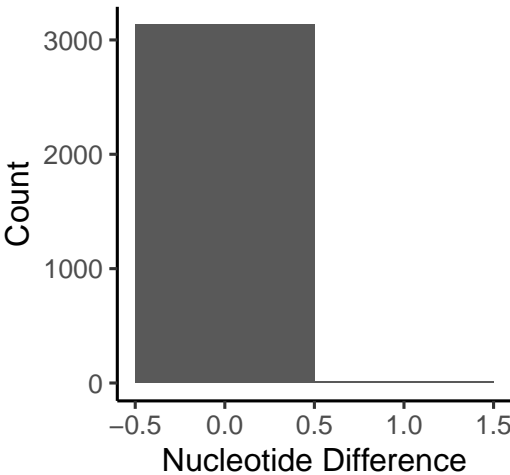
TRBV3-12\*ap01

9063 sequences assigned  
9033 (99.7%) exact matches, in which:  
9012 unique CDR3  
13 unique J



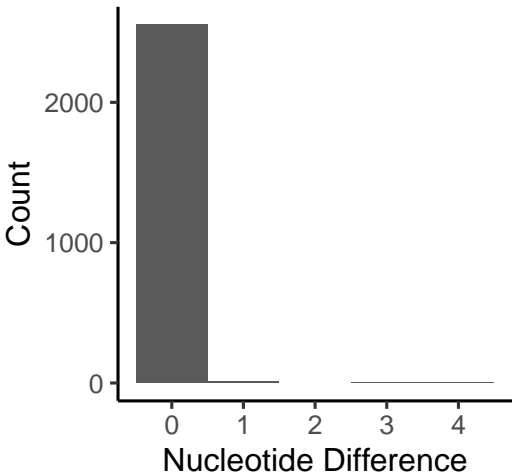
TRBV4-2\*ap01

3144 sequences assigned  
3133 (99.7%) exact matches, in which:  
3133 unique CDR3  
13 unique J



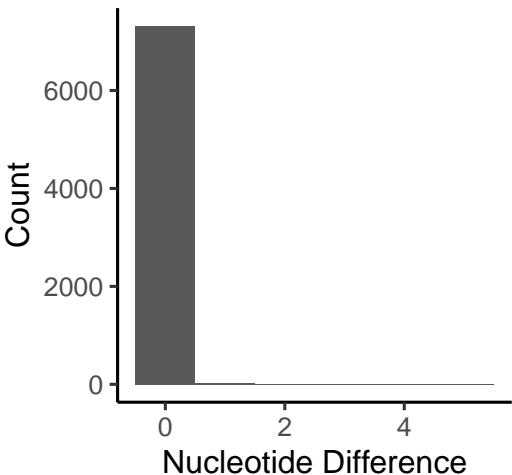
TRBV25-1\*ap01

2570 sequences assigned  
2553 (99.3%) exact matches, in which:  
2546 unique CDR3  
13 unique J



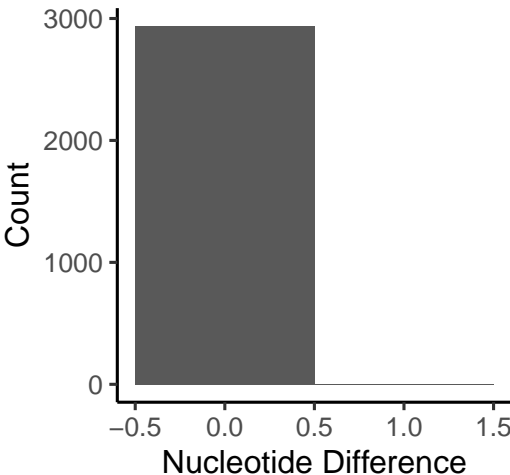
TRBV24-1\*ap01

7349 sequences assigned  
7316 (99.6%) exact matches, in which:  
7305 unique CDR3  
13 unique J



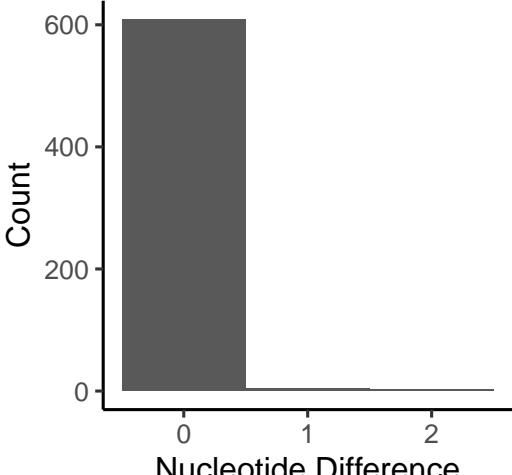
TRBV4-3\*ap01

2943 sequences assigned  
2938 (99.8%) exact matches, in which:  
2933 unique CDR3  
13 unique J



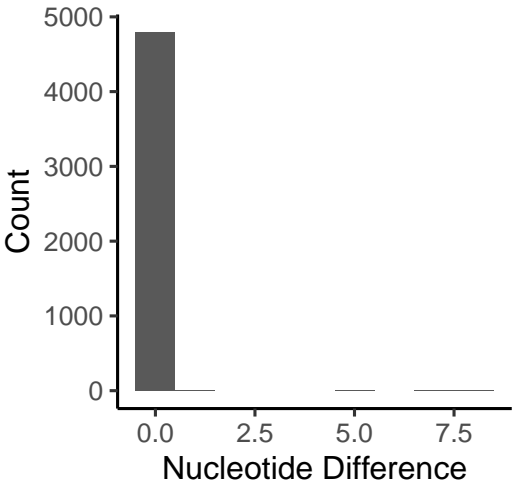
TRBV5-3\*ap01

615 sequences assigned  
609 (99%) exact matches, in which:  
609 unique CDR3  
13 unique J



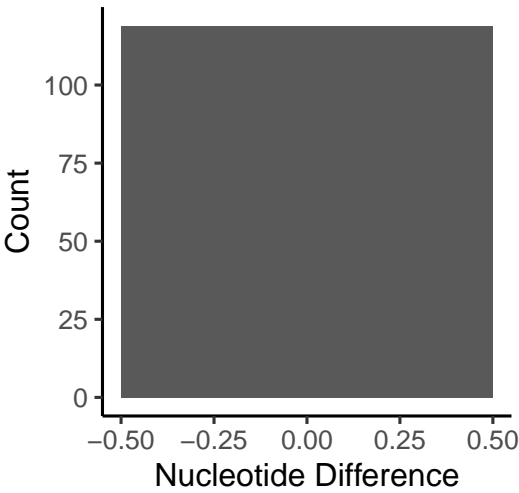
TRBV5-4\*ap01

4804 sequences assigned  
4792 (99.8%) exact matches, in which:  
4786 unique CDR3  
13 unique J



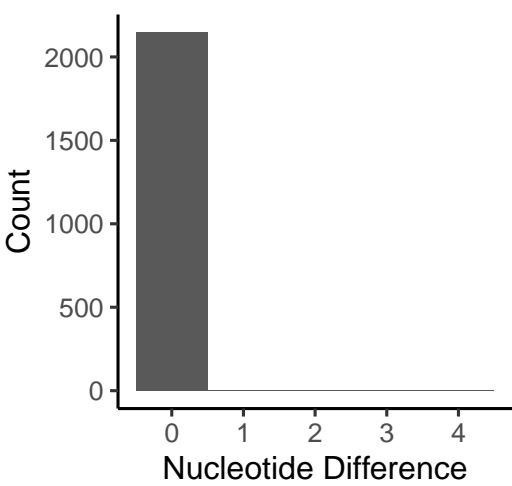
TRBV5-7\*ap01

119 sequences assigned  
119 (100%) exact matches, in which:  
119 unique CDR3  
13 unique J



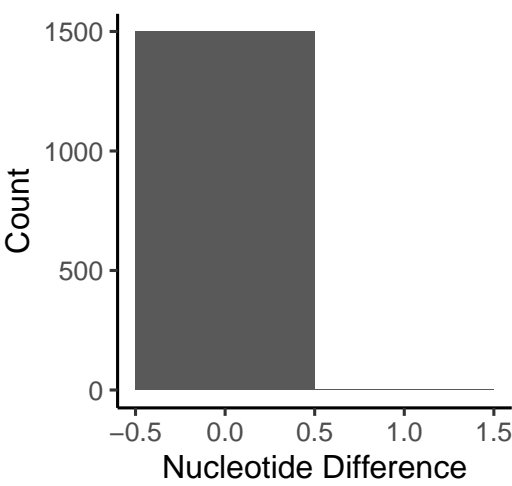
TRBV6-4\*ap01

2154 sequences assigned  
2147 (99.7%) exact matches, in which:  
2147 unique CDR3  
13 unique J



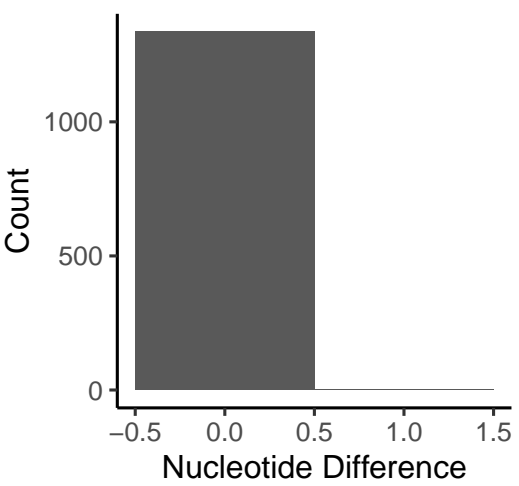
TRBV5-5\*ap01

1503 sequences assigned  
1499 (99.7%) exact matches, in which:  
1496 unique CDR3  
13 unique J



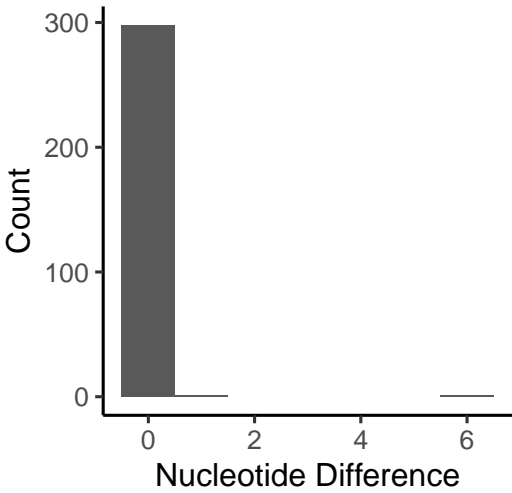
TRBV5-8\*ap01

1339 sequences assigned  
1336 (99.8%) exact matches, in which:  
1336 unique CDR3  
13 unique J



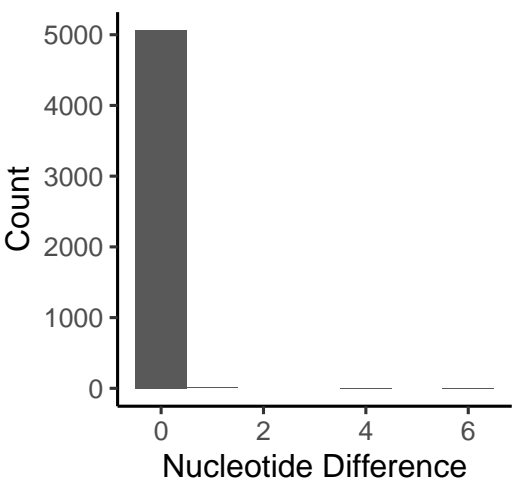
TRBV6-7\*ap01

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



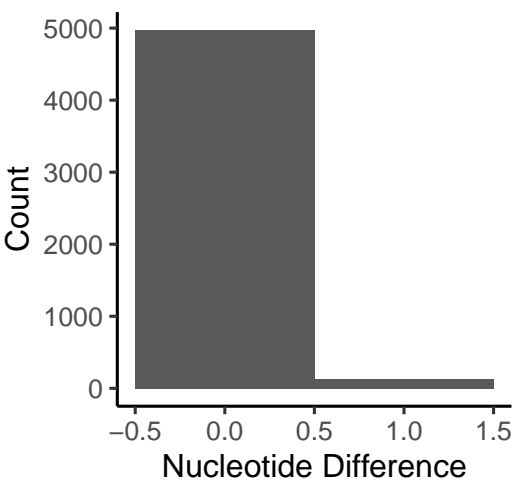
TRBV5-6\*ap01

5082 sequences assigned  
5066 (99.7%) exact matches, in which:  
5052 unique CDR3  
13 unique J



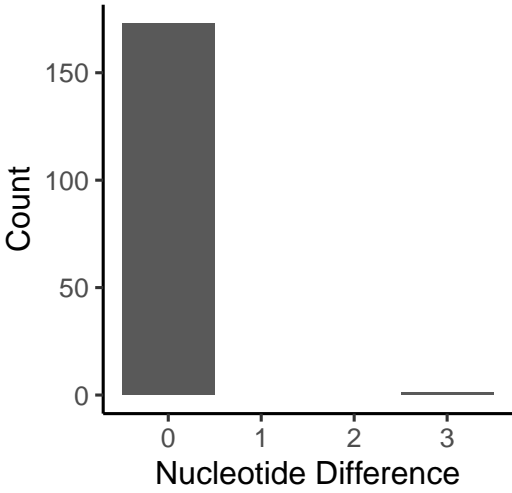
TRBV6-1\*ap01

5103 sequences assigned  
4973 (97.5%) exact matches, in which:  
4968 unique CDR3  
13 unique J



TRBV6-8\*ap01

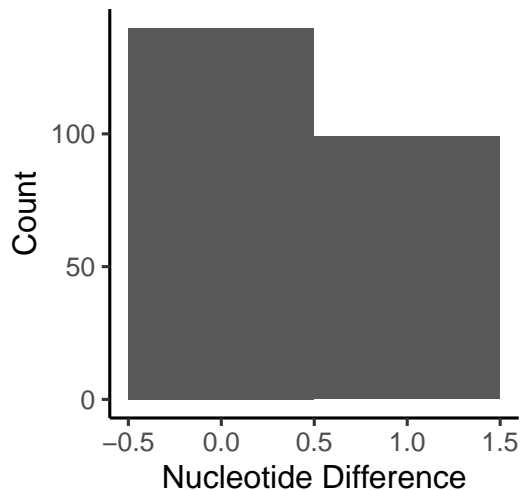
174 sequences assigned  
173 (99.4%) exact matches, in which:  
173 unique CDR3  
13 unique J





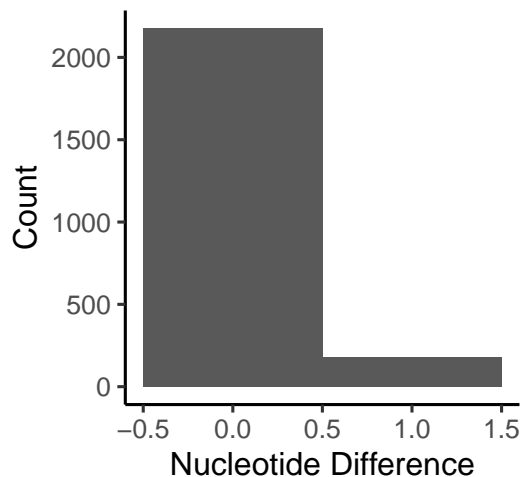
### TRBV6–9\*ap01

239 sequences assigned  
140 (58.6%) exact matches, in which:  
140 unique CDR3  
13 unique J



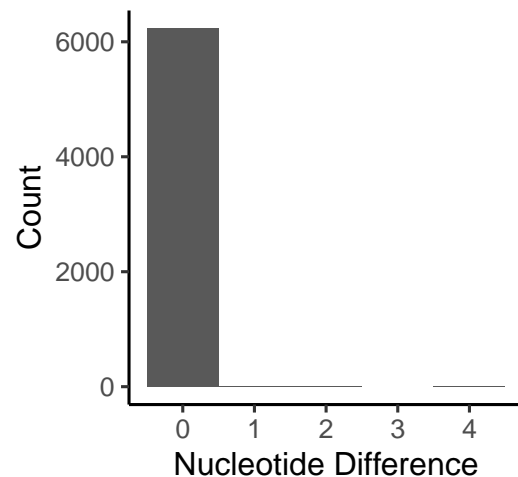
### TRBV6–56\*ap02

2354 sequences assigned  
2176 (92.4%) exact matches, in which:  
2169 unique CDR3  
13 unique J



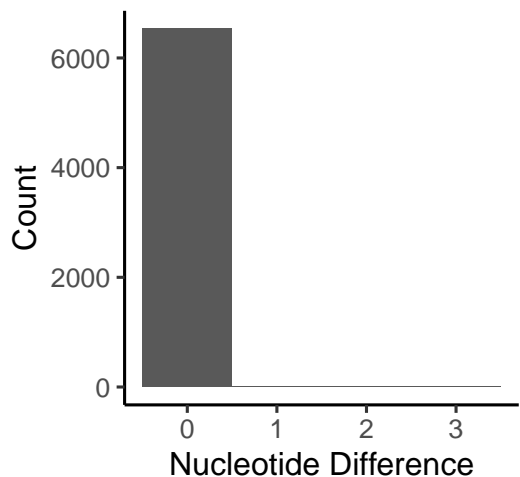
### TRBV7–2\*ap01

6241 sequences assigned  
6233 (99.9%) exact matches, in which:  
6231 unique CDR3  
13 unique J



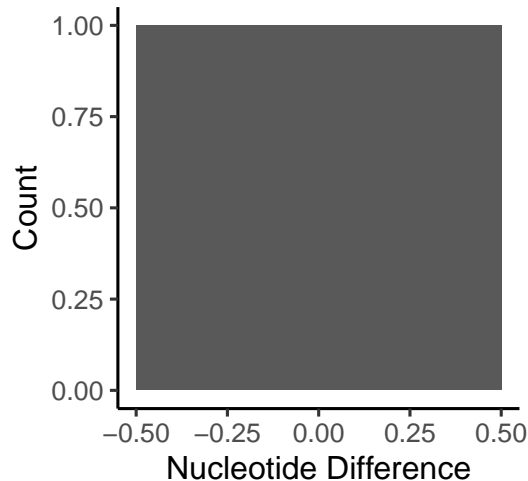
### TRBV6–23\*ap01

6551 sequences assigned  
6533 (99.7%) exact matches, in which:  
6525 unique CDR3  
13 unique J



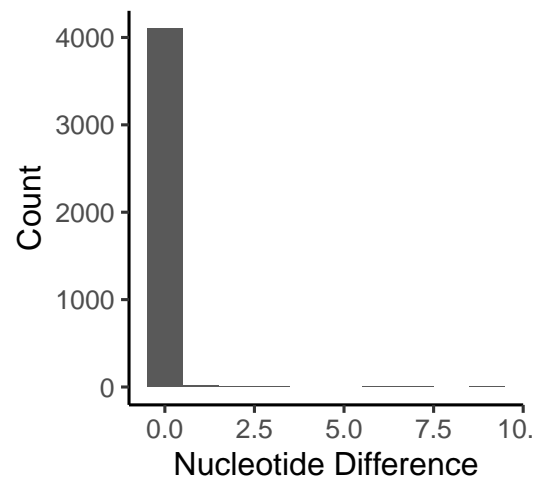
### TRBV7–1\*ap01

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



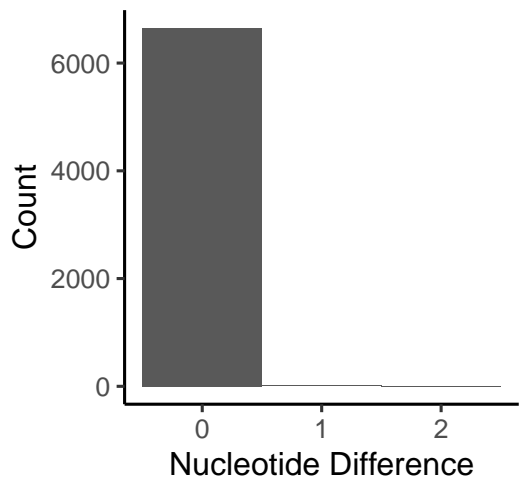
### TRBV7–3\*ap01

4118 sequences assigned  
4100 (99.6%) exact matches, in which:  
4095 unique CDR3  
13 unique J



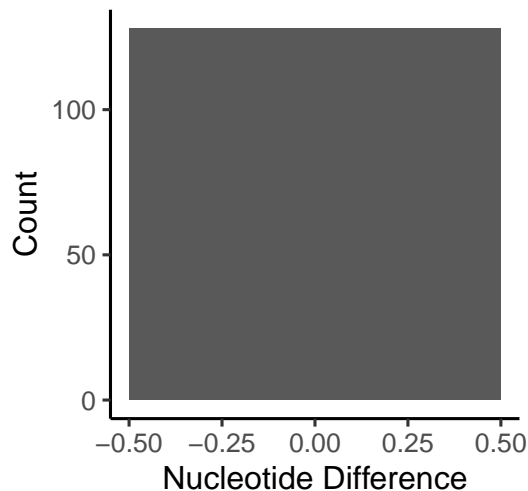
### TRBV6–56\*ap01

6664 sequences assigned  
6650 (99.8%) exact matches, in which:  
6641 unique CDR3  
13 unique J



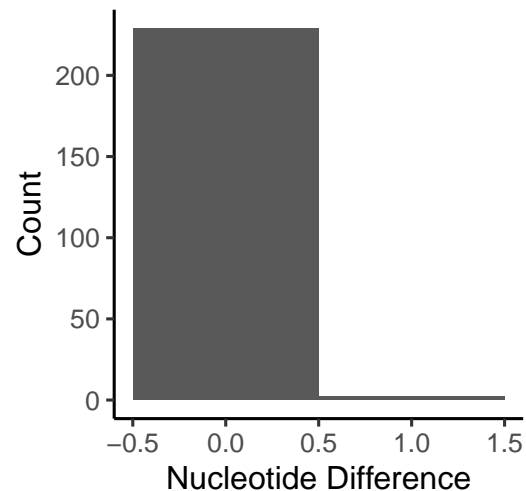
### TRBV7–1\*ap01\_G291C\_

128 sequences assigned  
128 (100%) exact matches, in which:  
128 unique CDR3  
13 unique J



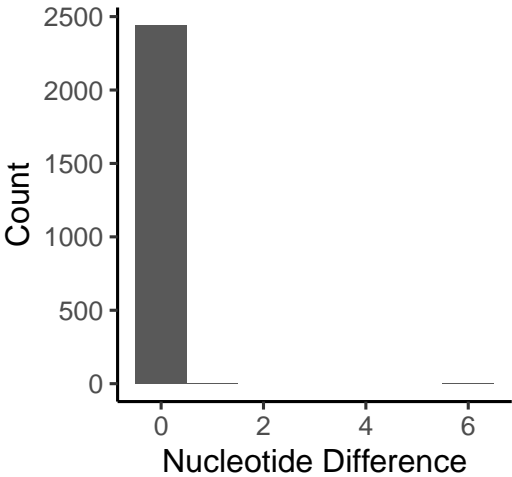
### TRBV7–4\*ap01

231 sequences assigned  
229 (99.1%) exact matches, in which:  
229 unique CDR3  
13 unique J



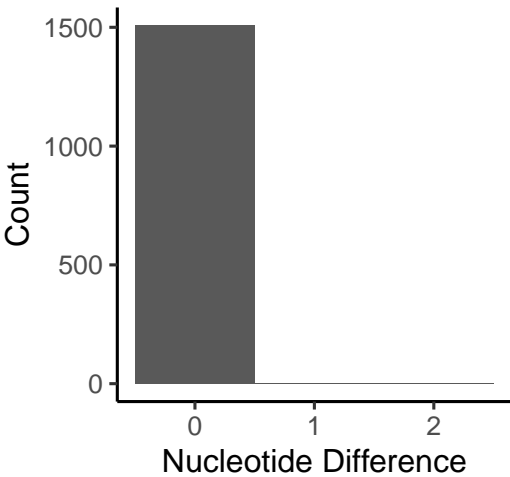
TRBV7-6\*ap01

2447 sequences assigned  
2440 (99.7%) exact matches, in which:  
2439 unique CDR3  
13 unique J



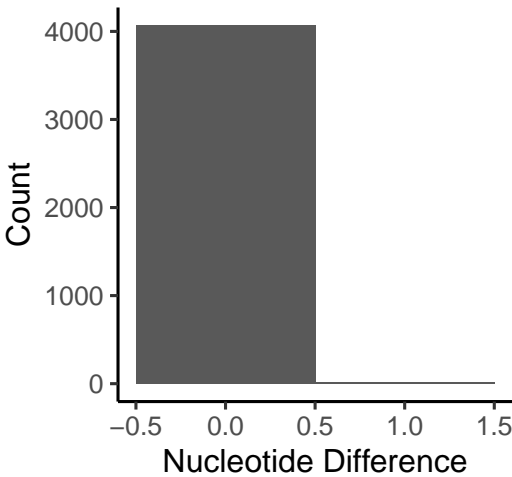
TRBV7-8\*ap02

1511 sequences assigned  
1508 (99.8%) exact matches, in which:  
1508 unique CDR3  
13 unique J



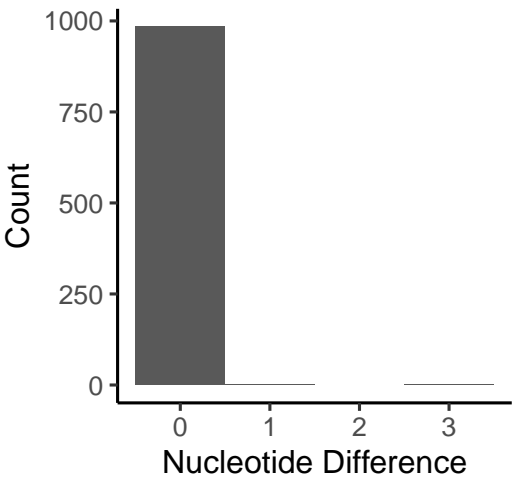
TRBV29-1\*ap01

4087 sequences assigned  
4068 (99.5%) exact matches, in which:  
4058 unique CDR3  
13 unique J



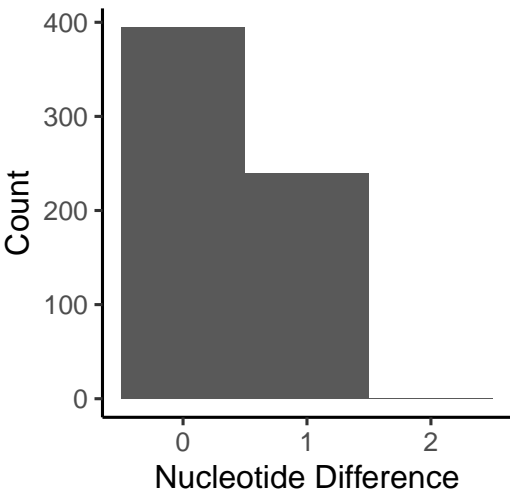
TRBV7-7\*ap01\_C315T

986 sequences assigned  
984 (99.8%) exact matches, in which:  
984 unique CDR3  
13 unique J



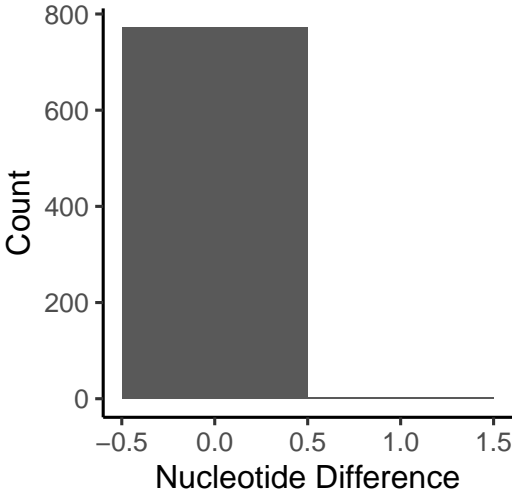
TRBV7-8\*ap03

636 sequences assigned  
395 (62.1%) exact matches, in which:  
395 unique CDR3  
13 unique J



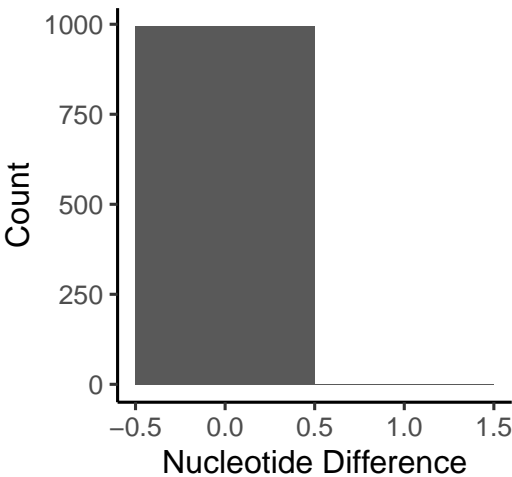
TRBV29-1\*ap02

776 sequences assigned  
773 (99.6%) exact matches, in which:  
771 unique CDR3  
13 unique J



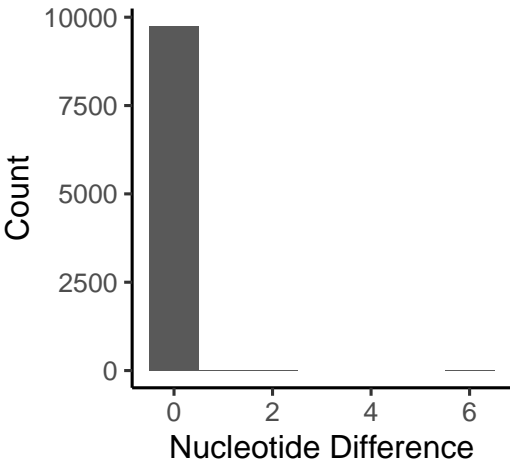
TRBV7-8\*ap01

996 sequences assigned  
995 (99.9%) exact matches, in which:  
994 unique CDR3  
12 unique J

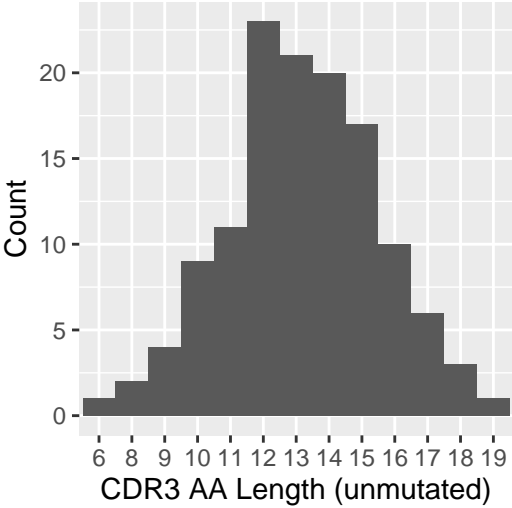


TRBV7-9\*ap01

9770 sequences assigned  
9757 (99.9%) exact matches, in which:  
9755 unique CDR3  
13 unique J



TRBV7-1\*ap01\_G291C\_T296C



TRBV7-7\*ap01\_C315T

