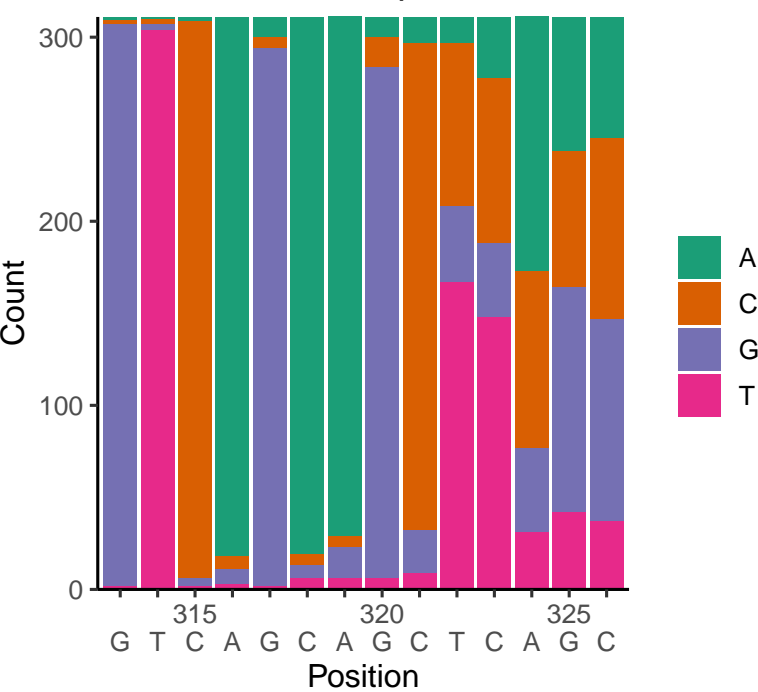
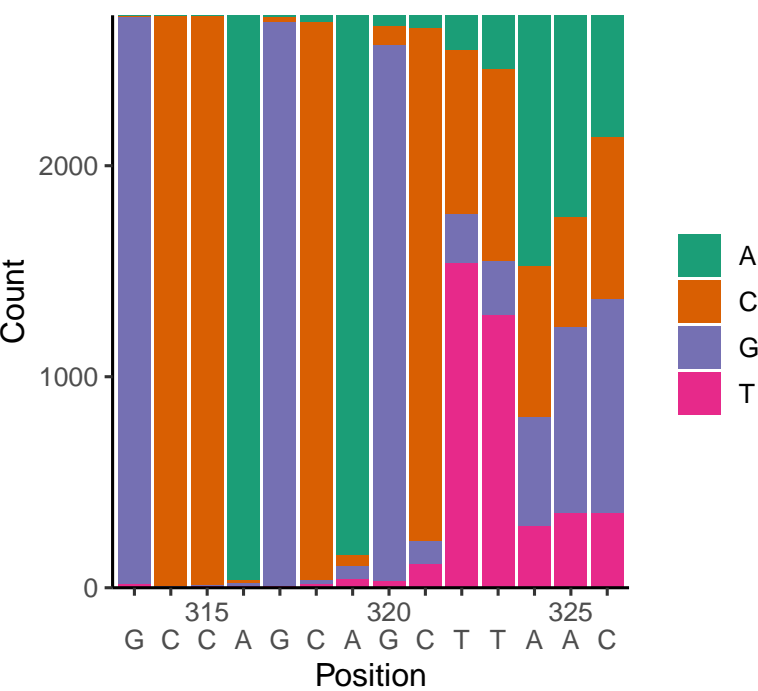


Gene TRBV7-1\*ap01\_T296C\_C314T



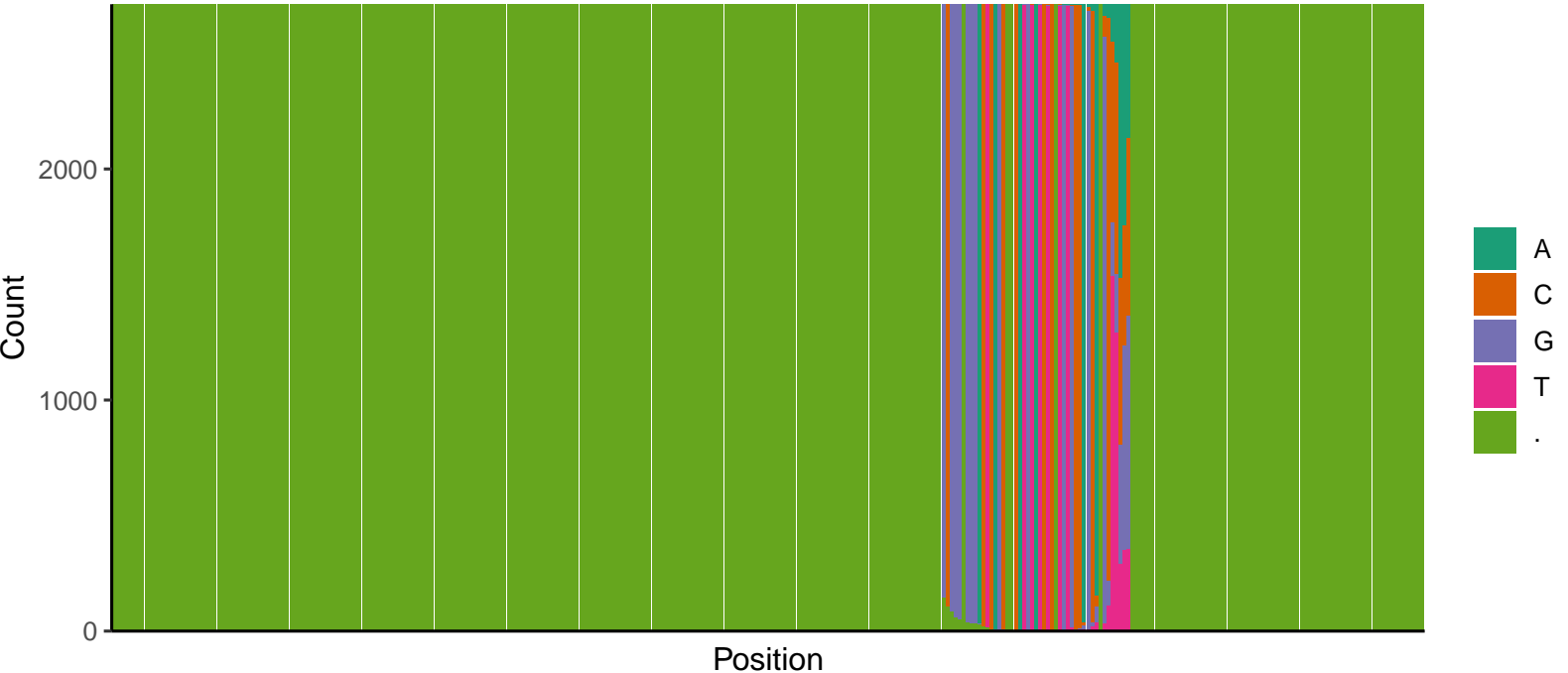
Gene TRBV7-3\*ap01\_G301A



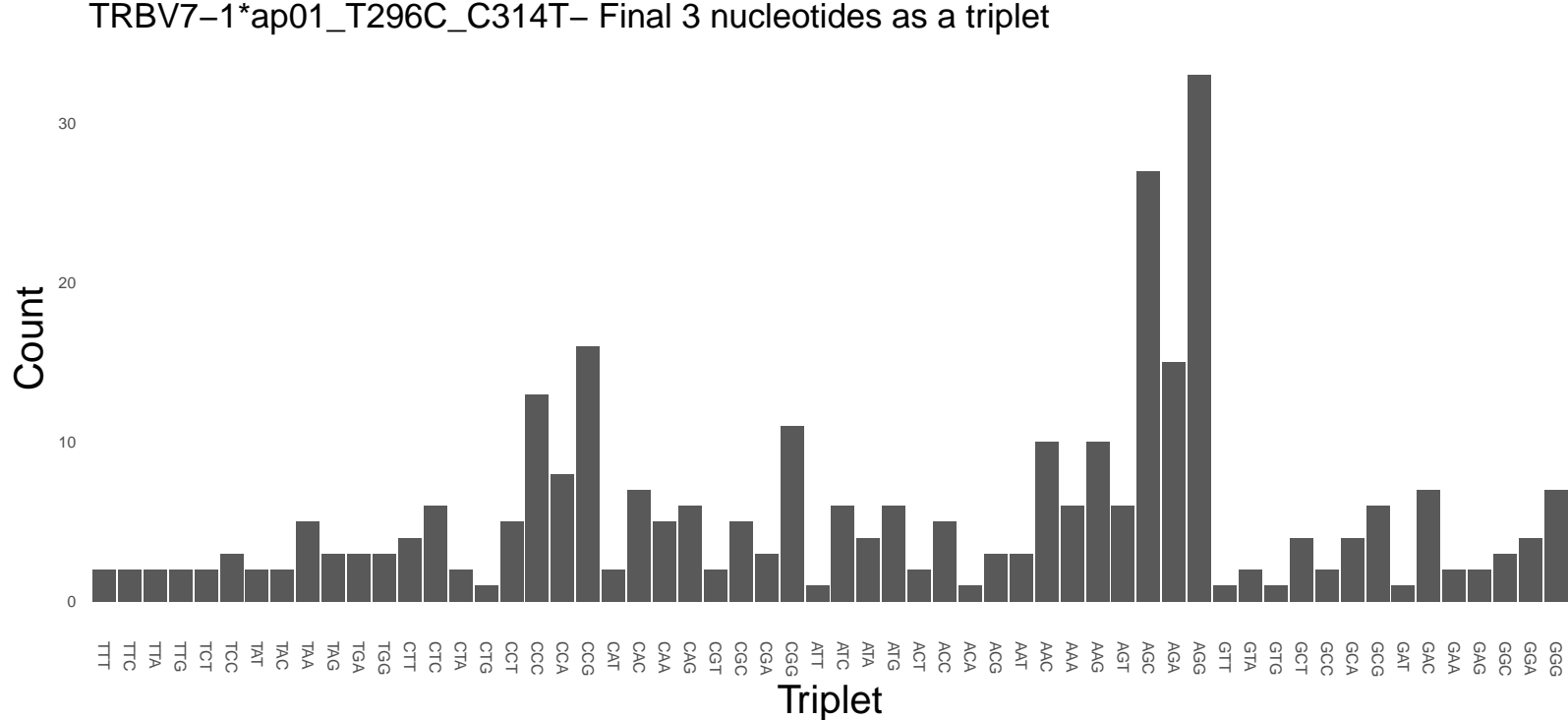
Gene TRBV7-1\*ap01\_T296C\_C314T



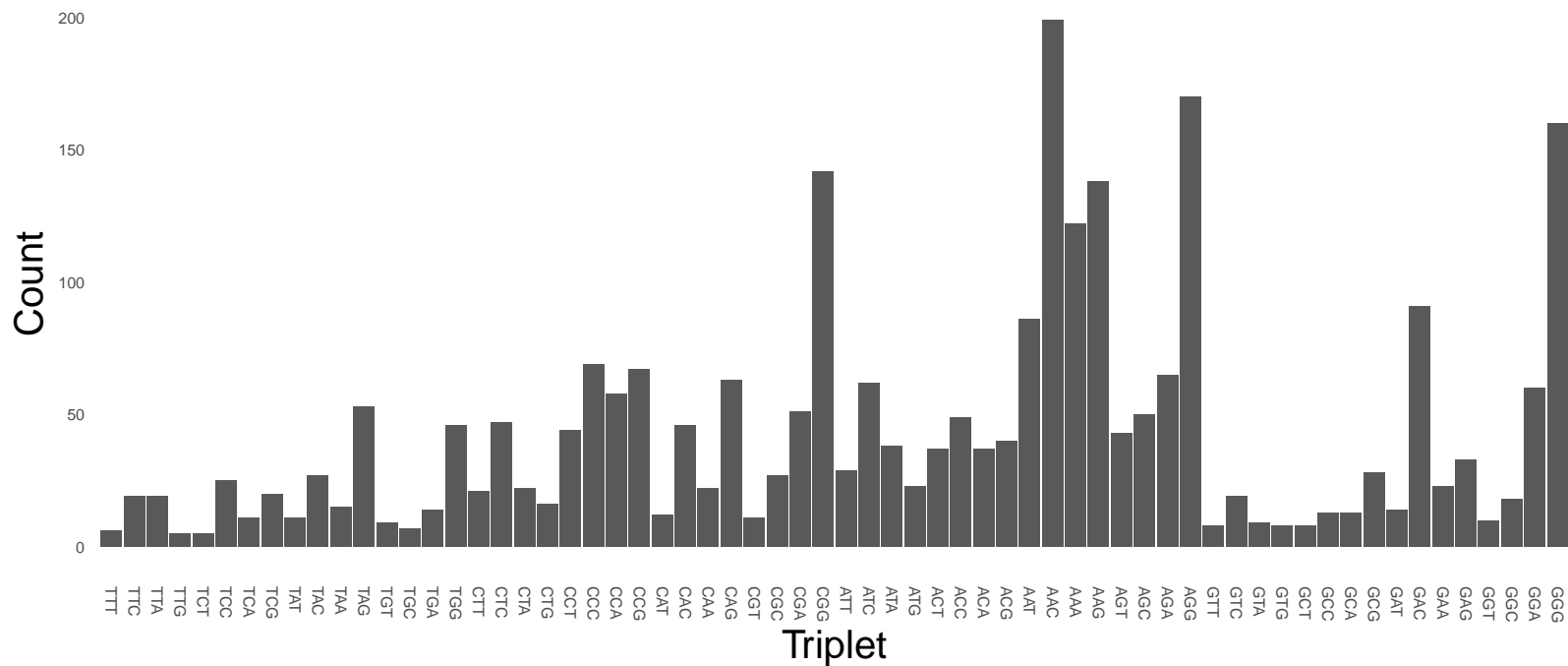
Gene TRBV7-3\*ap01\_G301A



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

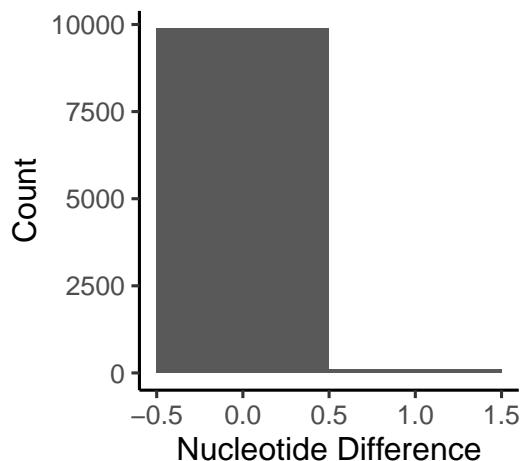


TRBV7-3\*ap01\_G301A- Final 3 nucleotides as a triplet



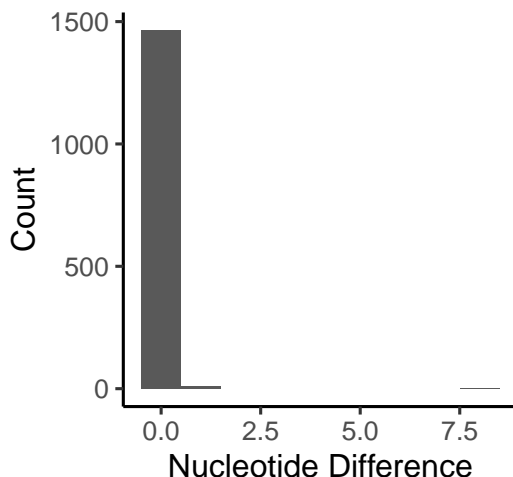
### TRBV20-1\*ap01

9984 sequences assigned  
9895 (99.1%) exact matches, in which:  
9712 unique CDR3  
13 unique J



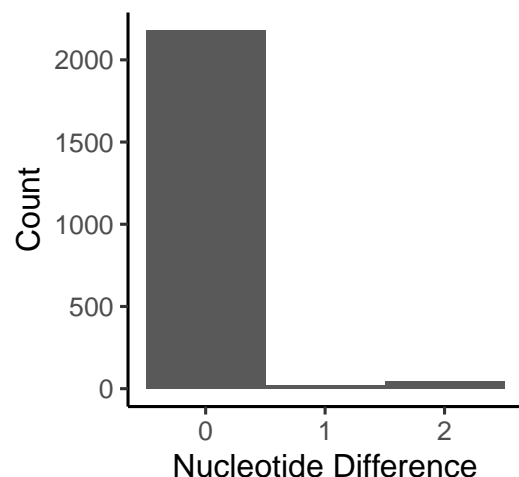
### TRBV10-2\*ap01

1474 sequences assigned  
1464 (99.3%) exact matches, in which:  
1437 unique CDR3  
13 unique J



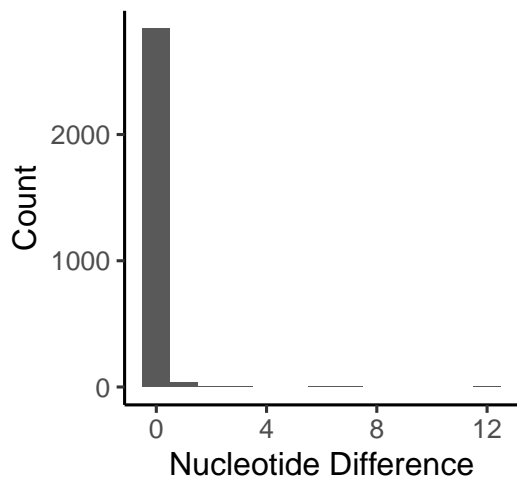
### TRBV13\*ap01

2246 sequences assigned  
2179 (97%) exact matches, in which:  
2121 unique CDR3  
13 unique J



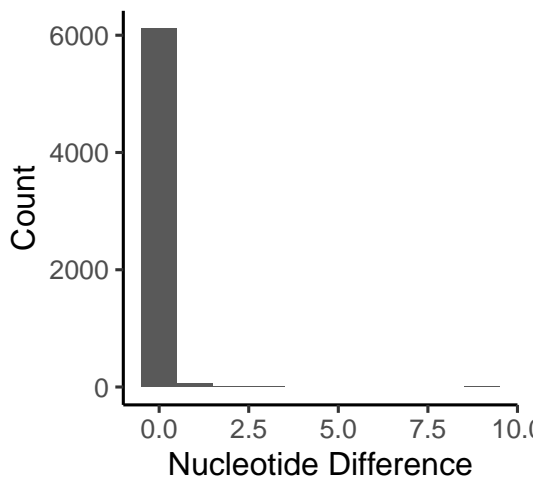
### TRBV10-1\*ap01

2878 sequences assigned  
2838 (98.6%) exact matches, in which:  
2758 unique CDR3  
13 unique J



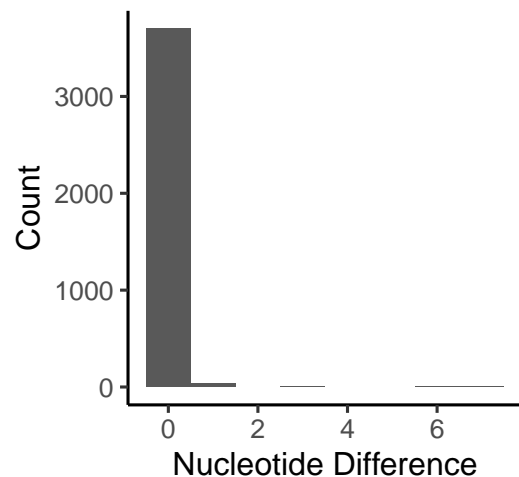
### TRBV10-3\*ap01

6177 sequences assigned  
6111 (98.9%) exact matches, in which:  
5944 unique CDR3  
13 unique J



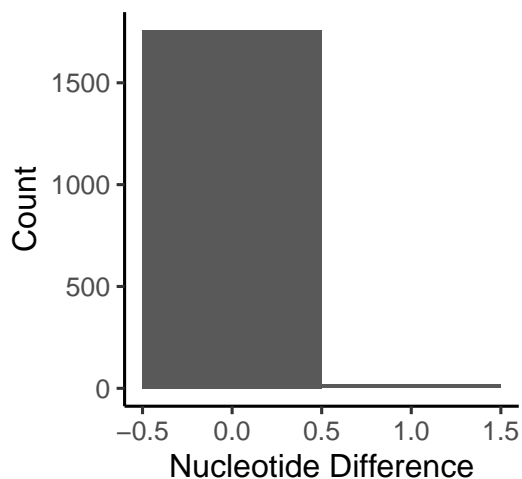
### TRBV14\*ap01

3738 sequences assigned  
3699 (99%) exact matches, in which:  
3633 unique CDR3  
13 unique J



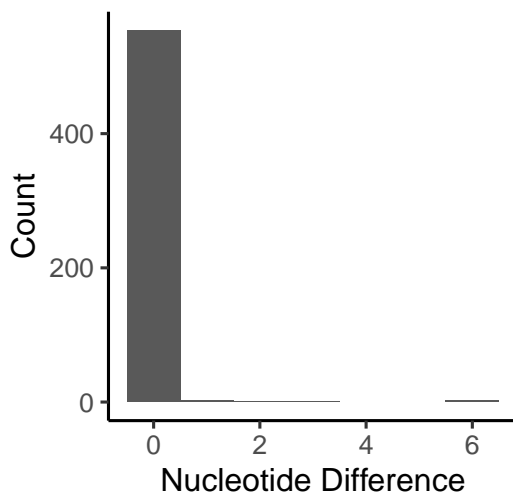
### TRBV20-1\*ap02

1777 sequences assigned  
1759 (99%) exact matches, in which:  
1730 unique CDR3  
13 unique J



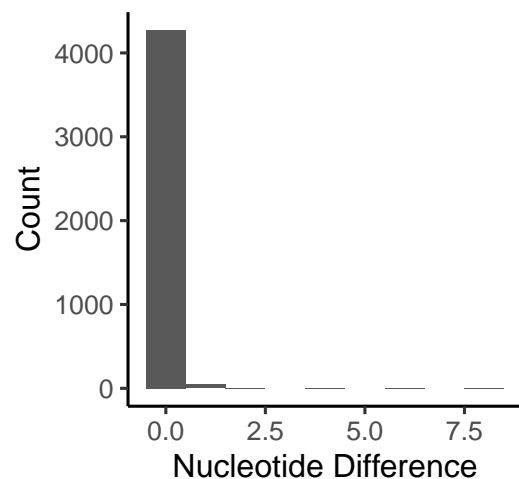
### TRBV1\*ap01

561 sequences assigned  
554 (98.8%) exact matches, in which:  
541 unique CDR3  
13 unique J



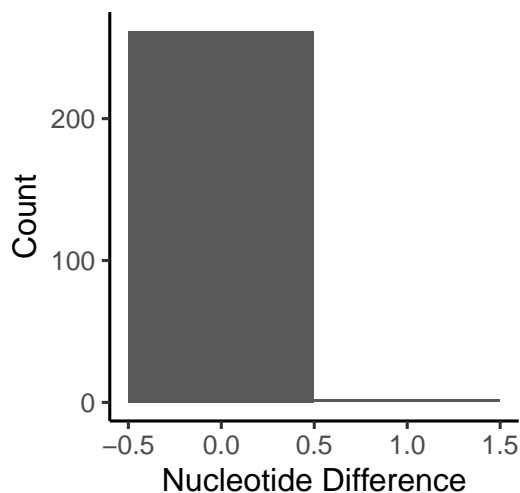
### TRBV15\*ap02

4323 sequences assigned  
4273 (98.8%) exact matches, in which:  
4184 unique CDR3  
13 unique J



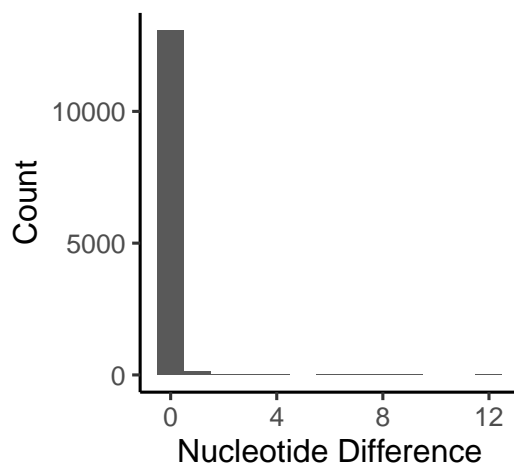
### TRBV16\*ap01

264 sequences assigned  
262 (99.2%) exact matches, in which:  
260 unique CDR3  
13 unique J



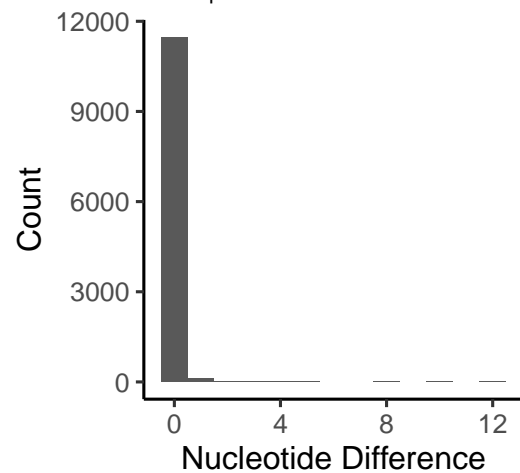
### TRBV19\*ap01

13239 sequences assigned  
13082 (98.8%) exact matches, in which:  
12893 unique CDR3  
13 unique J



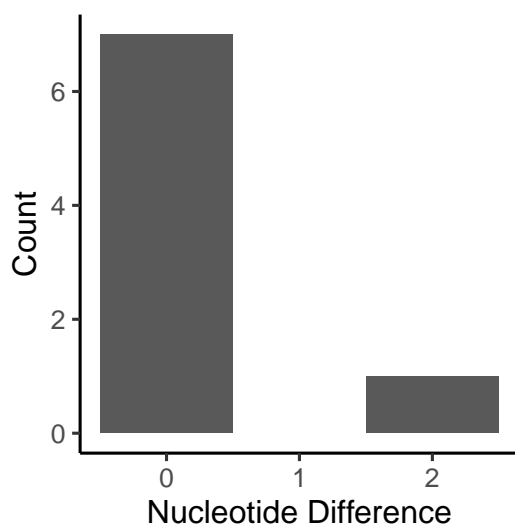
### TRBV27\*ap01

11607 sequences assigned  
11472 (98.8%) exact matches, in which:  
11147 unique CDR3  
14 unique J



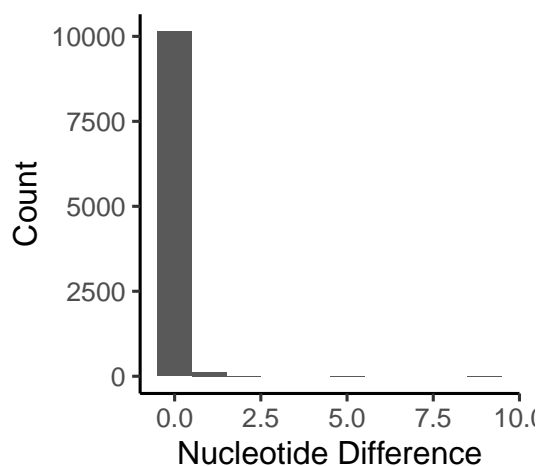
### TRBV17\*ap01

8 sequences assigned  
7 (87.5%) exact matches, in which:  
7 unique CDR3  
5 unique J



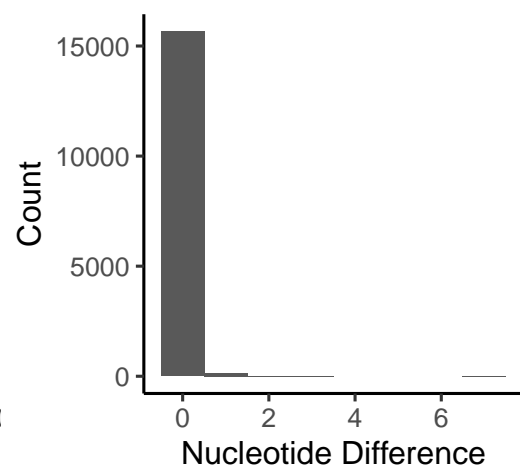
### TRBV2\*ap01

10283 sequences assigned  
10144 (98.6%) exact matches, in which:  
9910 unique CDR3  
13 unique J



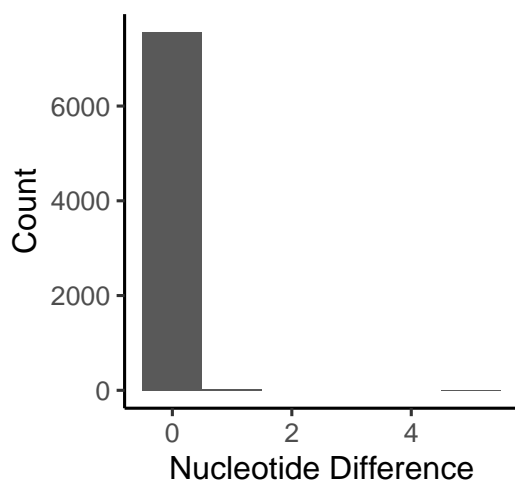
### TRBV28\*ap01

15826 sequences assigned  
15661 (99%) exact matches, in which:  
15344 unique CDR3  
13 unique J



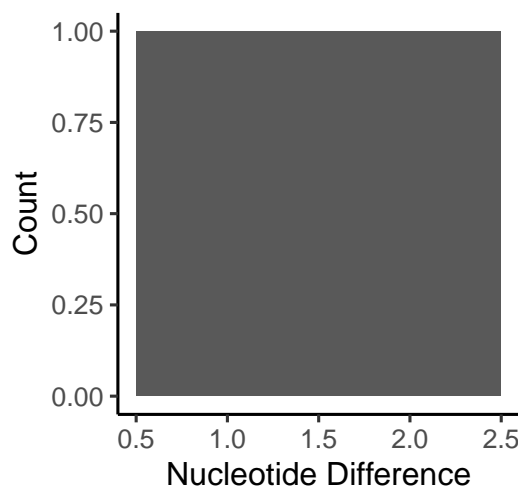
### TRBV18\*ap01

7591 sequences assigned  
7562 (99.6%) exact matches, in which:  
7461 unique CDR3  
13 unique J



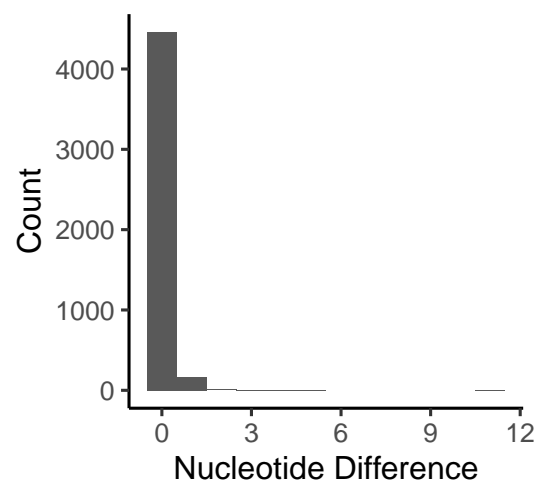
### TRBV26\*ap01

2 sequences assigned  
No exact matches.



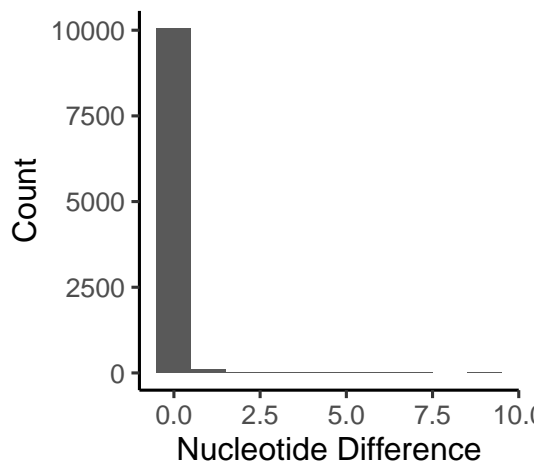
### TRBV30\*ap01

4638 sequences assigned  
4460 (96.2%) exact matches, in which:  
4394 unique CDR3  
13 unique J



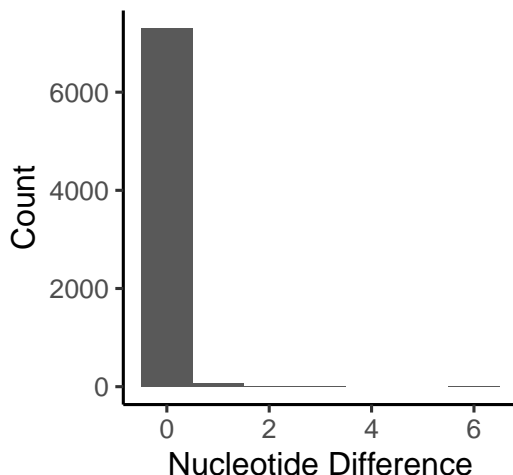
### TRBV9\*ap01

10179 sequences assigned  
10060 (98.8%) exact matches, in which:  
9837 unique CDR3  
13 unique J



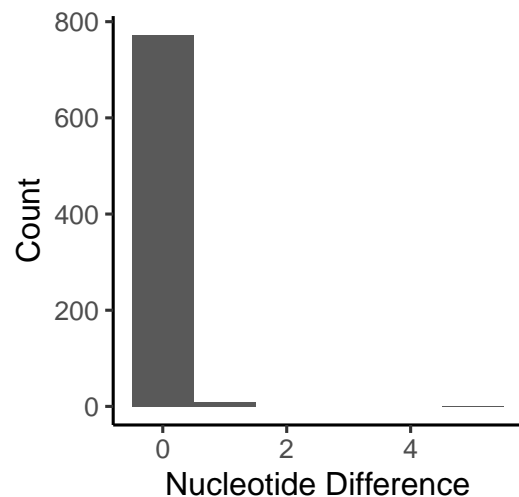
### TRBV11-2\*ap01

7375 sequences assigned  
7299 (99%) exact matches, in which:  
7116 unique CDR3  
13 unique J



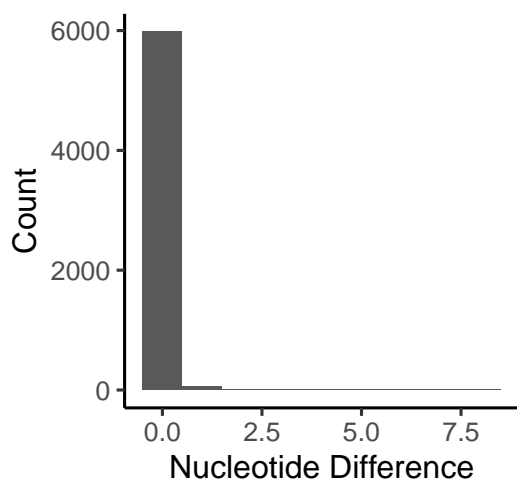
### TRBV12-2\*ap01

783 sequences assigned  
773 (98.7%) exact matches, in which:  
761 unique CDR3  
13 unique J



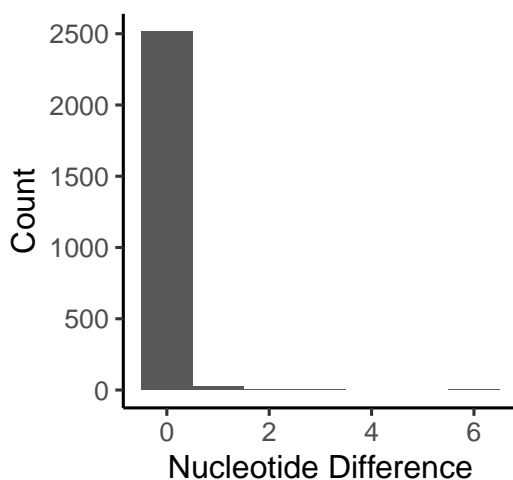
### TRBV21-1\*ap01

6077 sequences assigned  
5981 (98.4%) exact matches, in which:  
5870 unique CDR3  
13 unique J



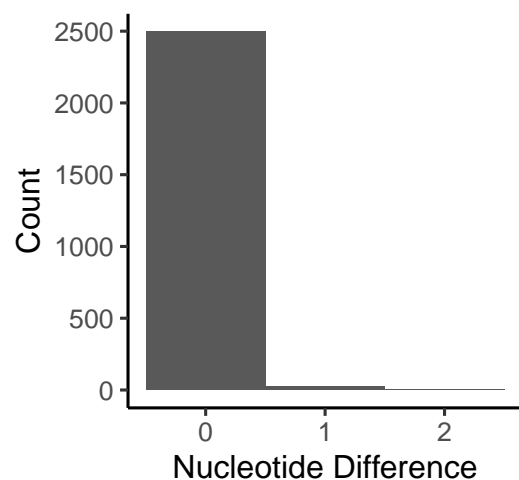
### TRBV11-3\*ap01

2541 sequences assigned  
2514 (98.9%) exact matches, in which:  
2466 unique CDR3  
13 unique J



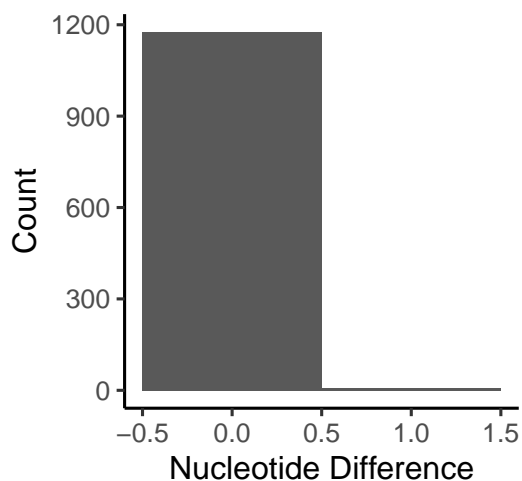
### TRBV12-5\*ap01

2529 sequences assigned  
2496 (98.7%) exact matches, in which:  
2437 unique CDR3  
14 unique J



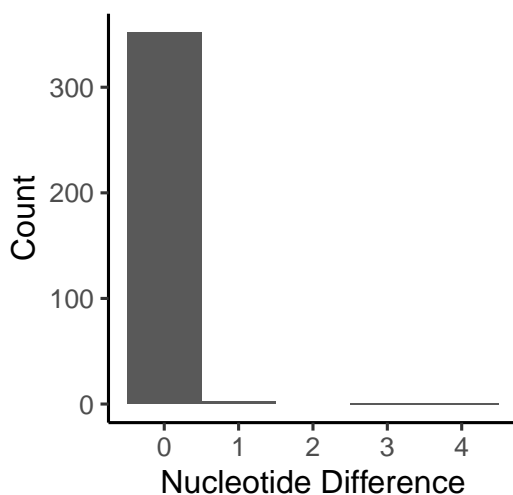
### TRBV11-1\*ap01

1184 sequences assigned  
1176 (99.3%) exact matches, in which:  
1151 unique CDR3  
13 unique J



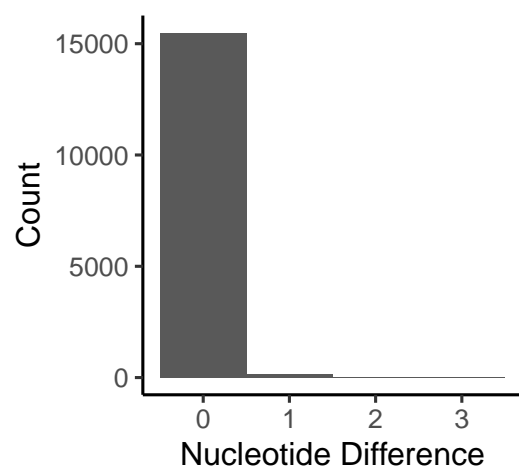
### TRBV12-1\*ap01

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



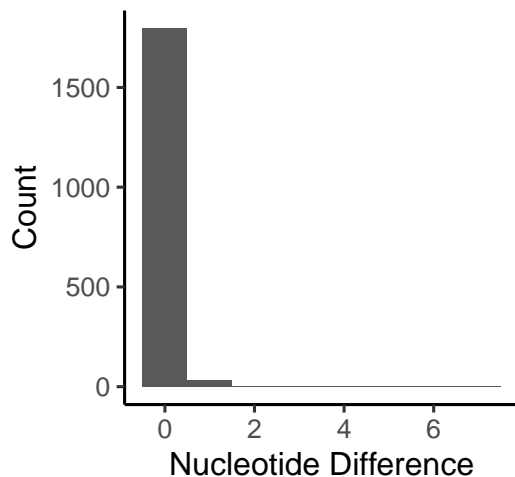
### TRBV12-34\*ap01

15647 sequences assigned  
15490 (99%) exact matches, in which:  
15129 unique CDR3  
13 unique J



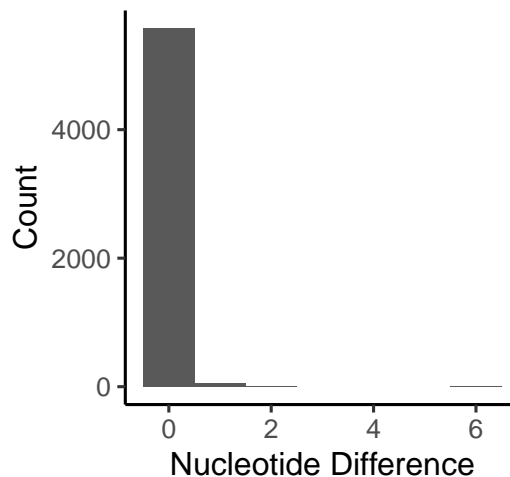
### TRBV23-1\*ap01

1839 sequences assigned  
1796 (97.7%) exact matches, in which:  
1752 unique CDR3  
13 unique J



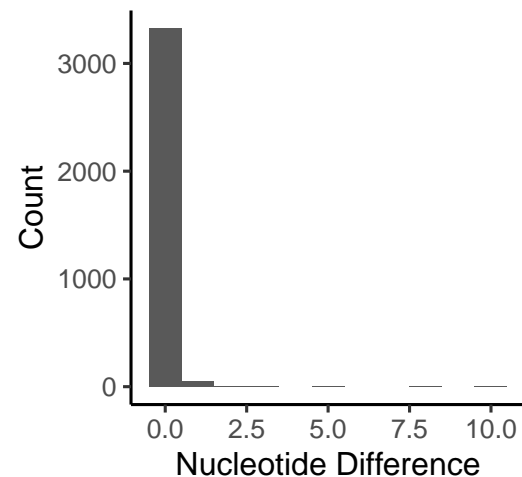
### TRBV4-1\*ap01

5632 sequences assigned  
5576 (99%) exact matches, in which:  
5455 unique CDR3  
13 unique J



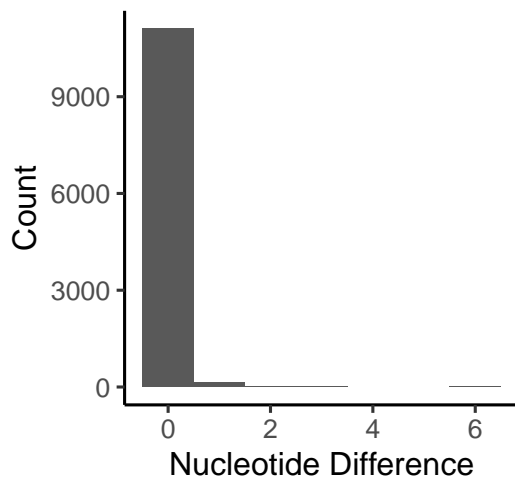
### TRBV25-1\*ap01

3379 sequences assigned  
3325 (98.4%) exact matches, in which:  
3268 unique CDR3  
13 unique J



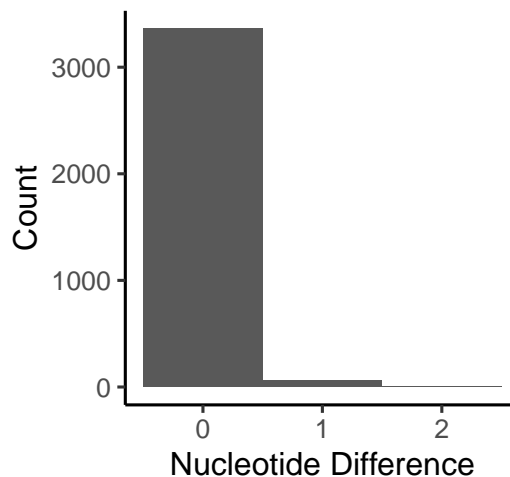
### TRBV3-12\*ap01

11249 sequences assigned  
11107 (98.7%) exact matches, in which:  
10841 unique CDR3  
13 unique J



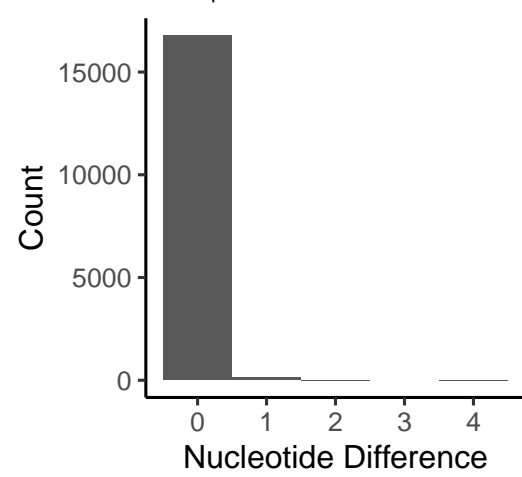
### TRBV4-2\*ap01

3422 sequences assigned  
3361 (98.2%) exact matches, in which:  
3280 unique CDR3  
13 unique J



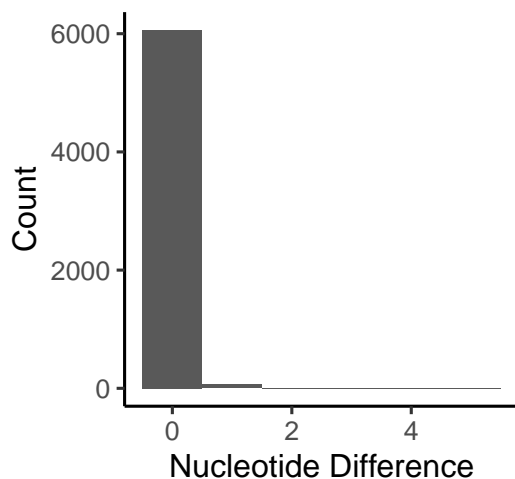
### TRBV5-1\*ap01

16932 sequences assigned  
16779 (99.1%) exact matches, in which:  
16366 unique CDR3  
13 unique J



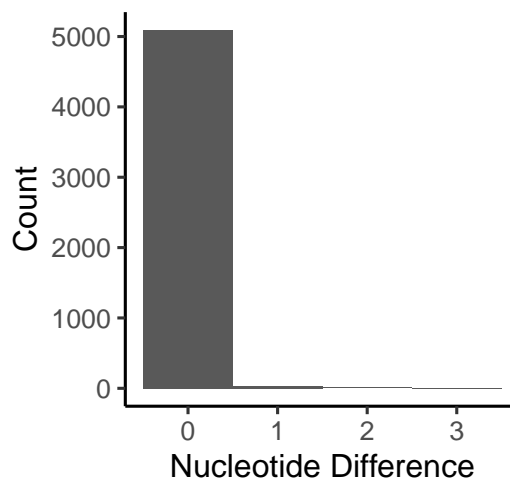
### TRBV24-1\*ap01

6138 sequences assigned  
6062 (98.8%) exact matches, in which:  
5954 unique CDR3  
13 unique J



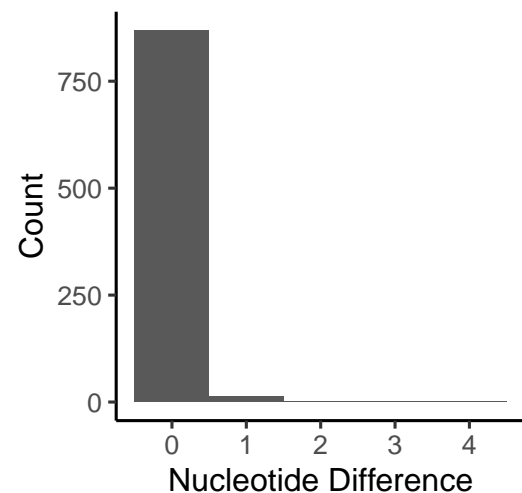
### TRBV4-3\*ap01

5140 sequences assigned  
5092 (99.1%) exact matches, in which:  
4979 unique CDR3  
13 unique J



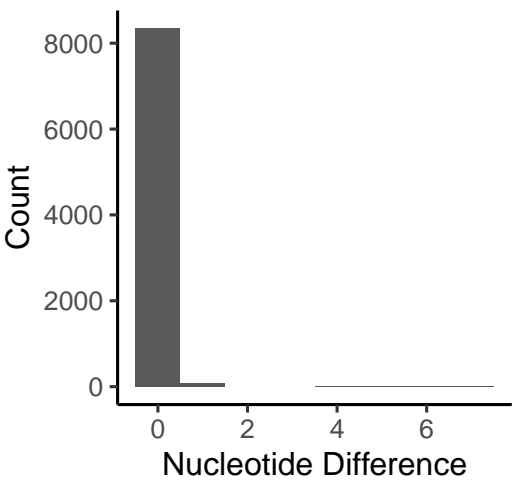
### TRBV5-3\*ap01

887 sequences assigned  
869 (98%) exact matches, in which:  
859 unique CDR3  
13 unique J



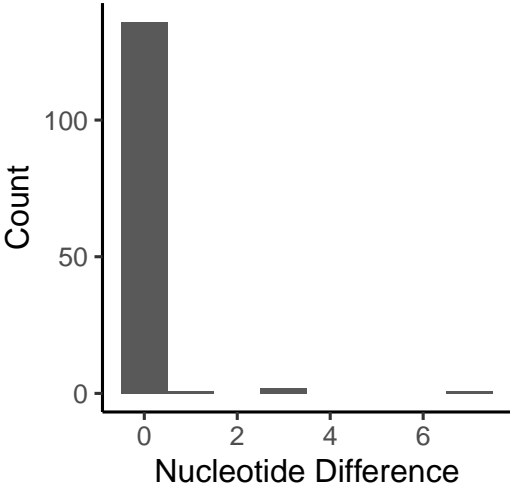
TRBV5-4\*ap01

8438 sequences assigned  
8344 (98.9%) exact matches, in which:  
8148 unique CDR3  
13 unique J



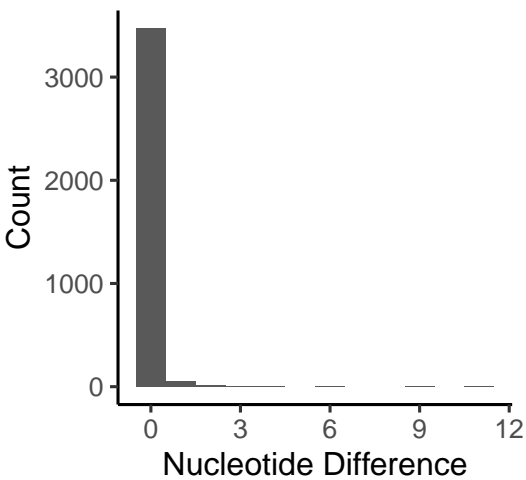
TRBV5-7\*ap01

140 sequences assigned  
136 (97.1%) exact matches, in which:  
129 unique CDR3  
13 unique J



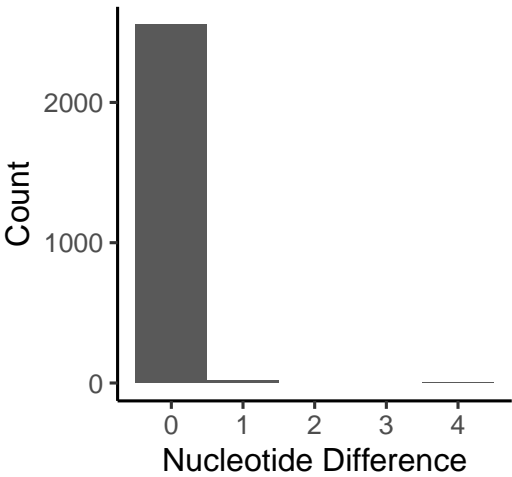
TRBV6-4\*ap01

3545 sequences assigned  
3472 (97.9%) exact matches, in which:  
3385 unique CDR3  
13 unique J



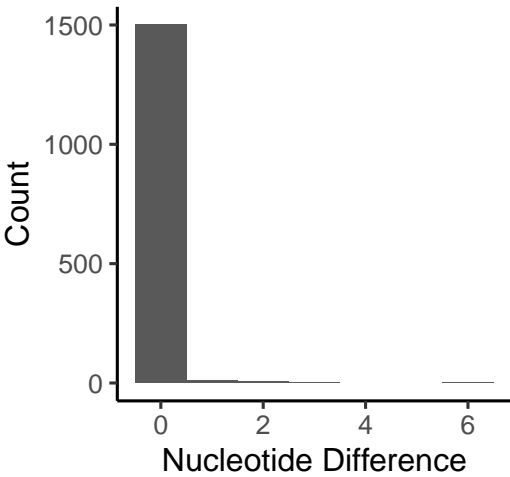
TRBV5-5\*ap01

2576 sequences assigned  
2554 (99.1%) exact matches, in which:  
2519 unique CDR3  
14 unique J



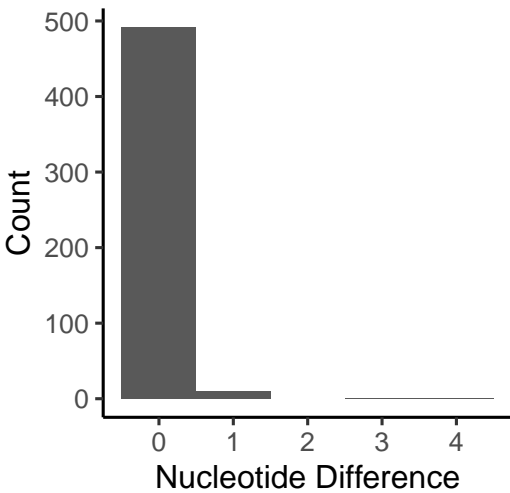
TRBV5-8\*ap01

1523 sequences assigned  
1501 (98.6%) exact matches, in which:  
1477 unique CDR3  
13 unique J



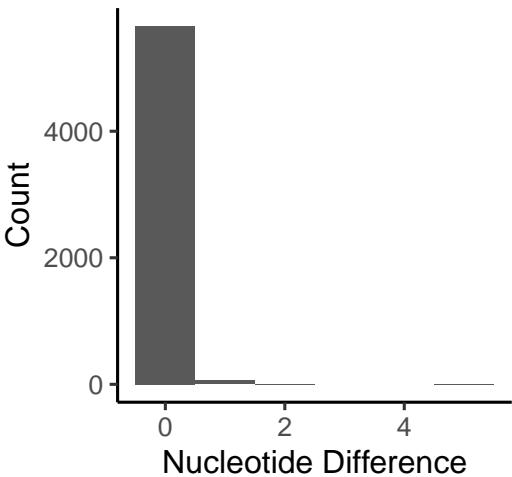
TRBV6-7\*ap01

504 sequences assigned  
492 (97.6%) exact matches, in which:  
479 unique CDR3  
13 unique J



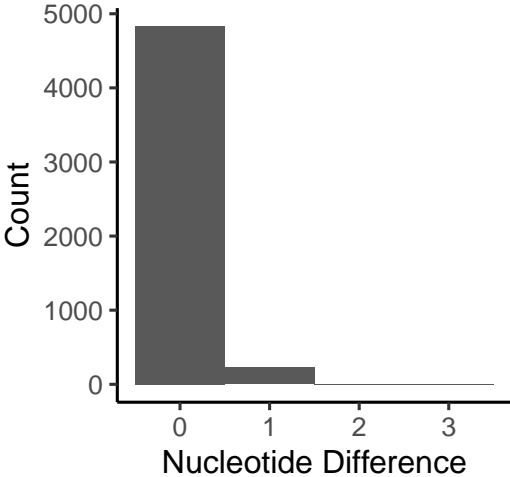
TRBV5-6\*ap01

5727 sequences assigned  
5662 (98.9%) exact matches, in which:  
5501 unique CDR3  
13 unique J



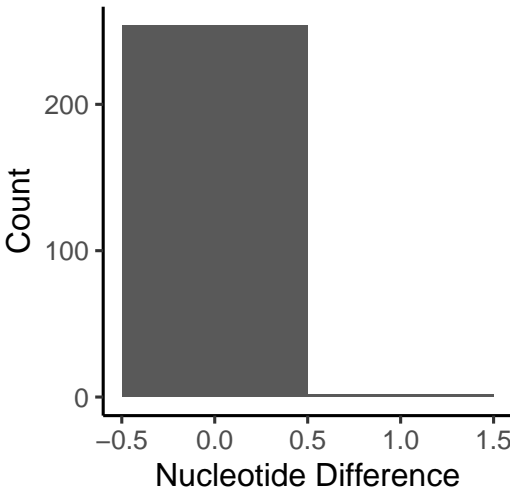
TRBV6-1\*ap01

5065 sequences assigned  
4834 (95.4%) exact matches, in which:  
4710 unique CDR3  
13 unique J



TRBV6-8\*ap01

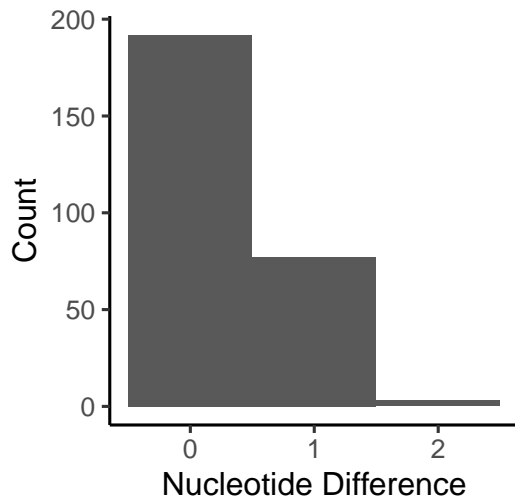
256 sequences assigned  
254 (99.2%) exact matches, in which:  
241 unique CDR3  
13 unique J





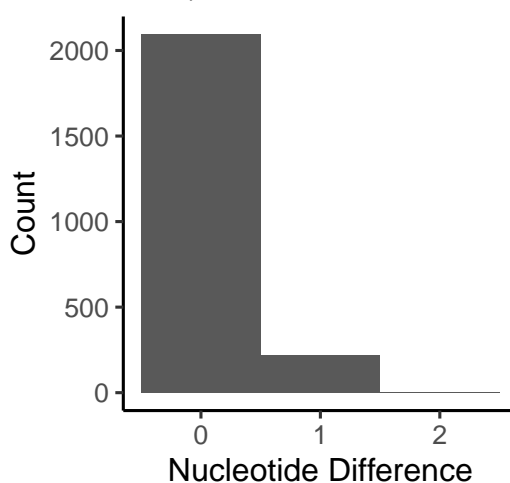
### TRBV6-9\*ap01

272 sequences assigned  
192 (70.6%) exact matches, in which:  
186 unique CDR3  
13 unique J



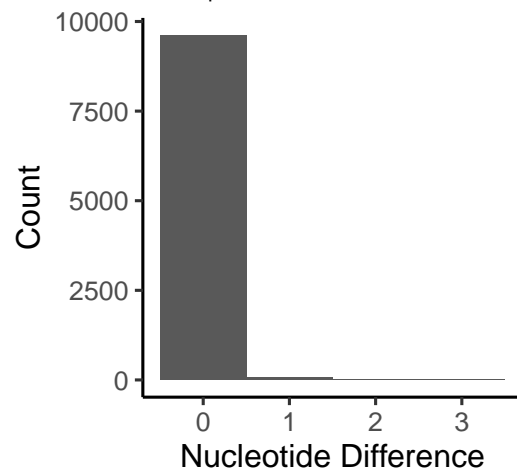
### TRBV6-56\*ap02

2315 sequences assigned  
2094 (90.5%) exact matches, in which:  
2055 unique CDR3  
13 unique J



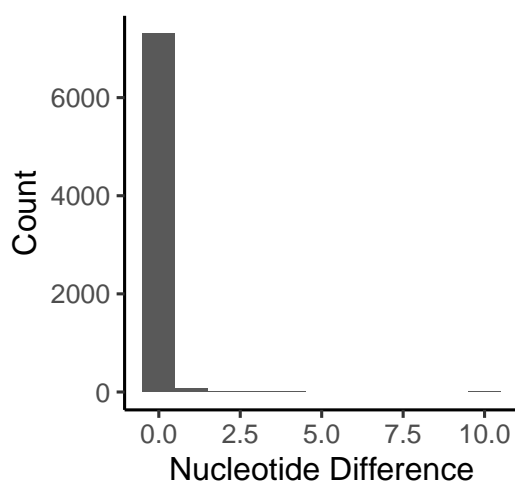
### TRBV7-2\*ap01

9707 sequences assigned  
9619 (99.1%) exact matches, in which:  
9408 unique CDR3  
13 unique J



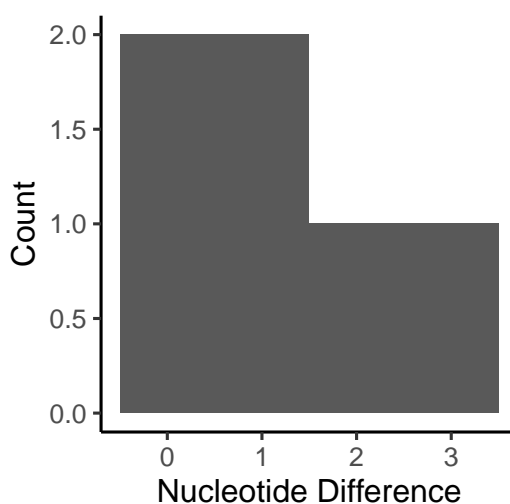
### TRBV6-23\*ap01

7386 sequences assigned  
7302 (98.9%) exact matches, in which:  
7104 unique CDR3  
13 unique J



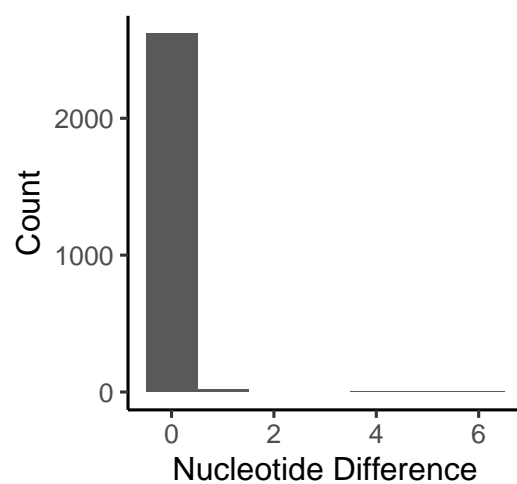
### TRBV7-1\*ap01

6 sequences assigned  
2 (33.3%) exact matches, in which:  
2 unique CDR3  
2 unique J



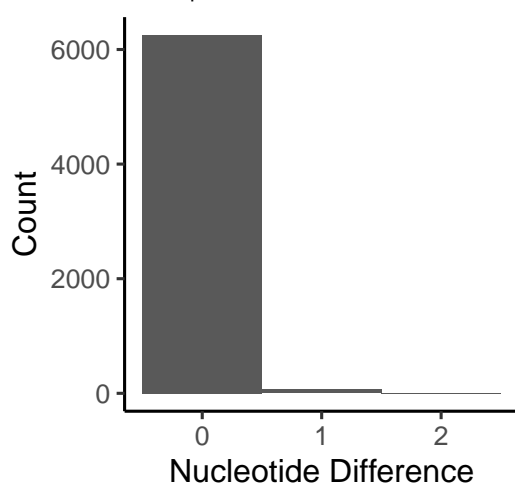
### TRBV7-3\*ap01

2644 sequences assigned  
2618 (99%) exact matches, in which:  
2572 unique CDR3  
13 unique J



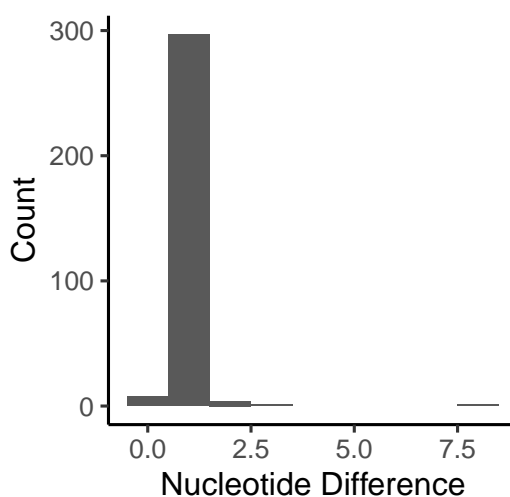
### TRBV6-56\*ap01

6319 sequences assigned  
6252 (98.9%) exact matches, in which:  
6089 unique CDR3  
13 unique J



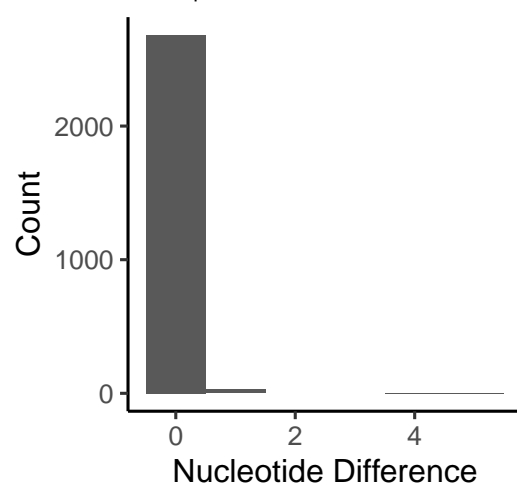
### TRBV7-1\*ap01\_T296C\_()

311 sequences assigned  
8 (2.6%) exact matches, in which:  
8 unique CDR3  
4 unique J



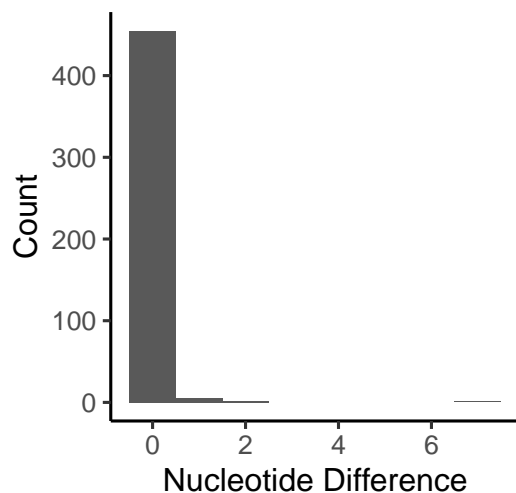
### TRBV7-3\*ap01\_G301A

2713 sequences assigned  
2681 (98.8%) exact matches, in which:  
2628 unique CDR3  
14 unique J



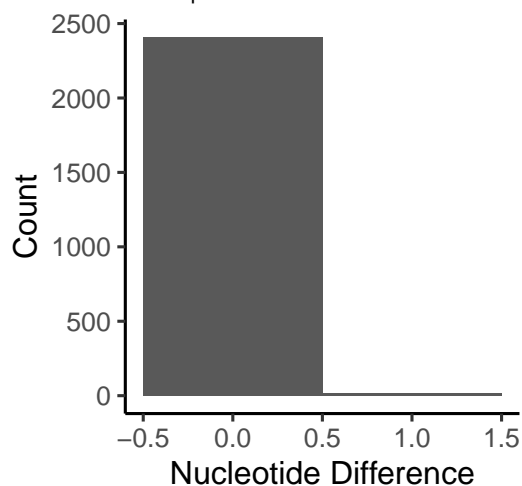
### TRBV7-4\*ap01

463 sequences assigned  
455 (98.3%) exact matches, in which:  
444 unique CDR3  
13 unique J



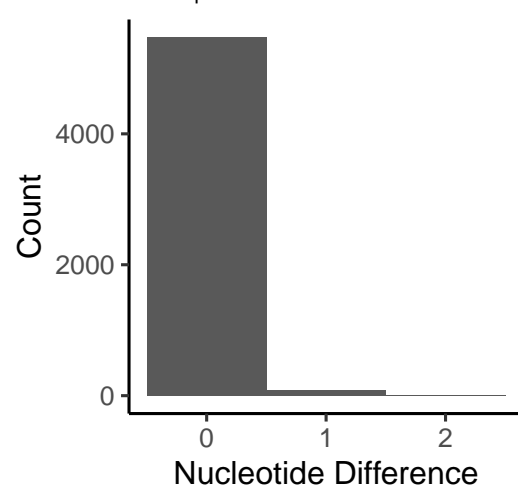
### TRBV7-8\*ap01

2427 sequences assigned  
2407 (99.2%) exact matches, in which:  
2348 unique CDR3  
13 unique J



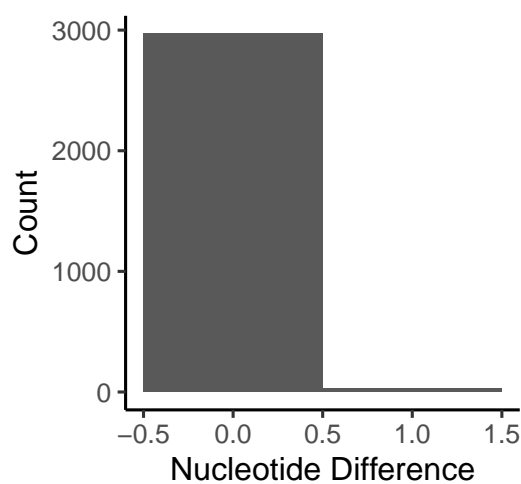
### TRBV29-1\*ap01

5552 sequences assigned  
5473 (98.6%) exact matches, in which:  
5370 unique CDR3  
13 unique J



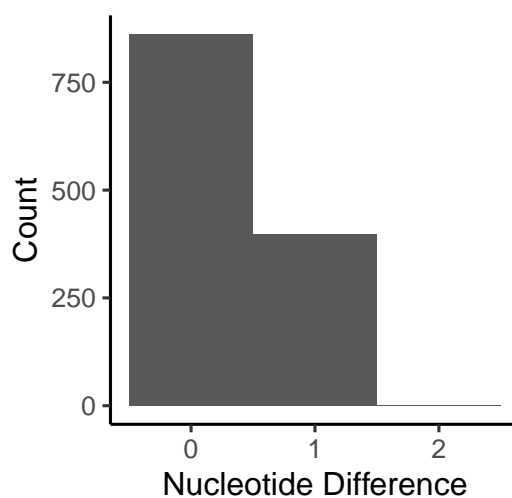
### TRBV7-6\*ap01

2995 sequences assigned  
2970 (99.2%) exact matches, in which:  
2908 unique CDR3  
13 unique J



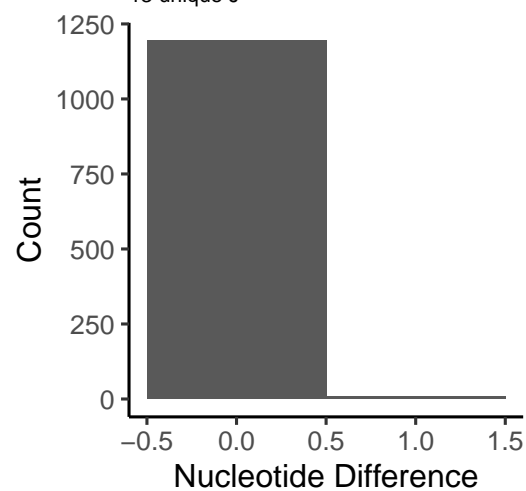
### TRBV7-8\*ap03

1261 sequences assigned  
862 (68.4%) exact matches, in which:  
840 unique CDR3  
13 unique J



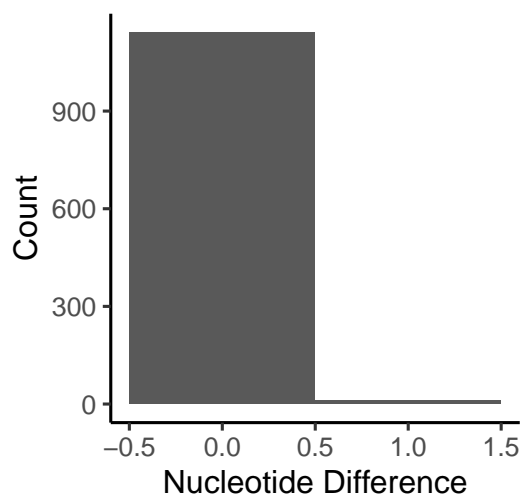
### TRBV29-1\*ap02

1202 sequences assigned  
1194 (99.3%) exact matches, in which:  
1169 unique CDR3  
13 unique J



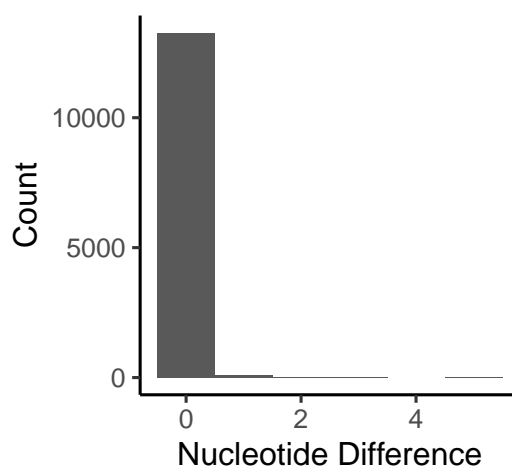
### TRBV7-7\*ap01

1152 sequences assigned  
1142 (99.1%) exact matches, in which:  
1114 unique CDR3  
13 unique J

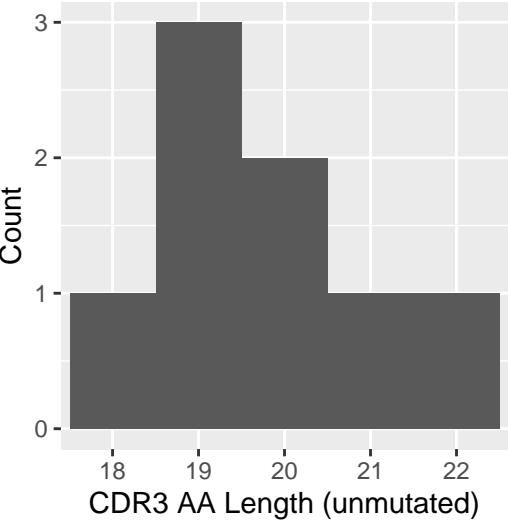


### TRBV7-9\*ap01

13375 sequences assigned  
13267 (99.2%) exact matches, in which:  
13038 unique CDR3  
13 unique J



TRBV7-1\*ap01\_T296C\_C314T



TRBV7-3\*ap01\_G301A

