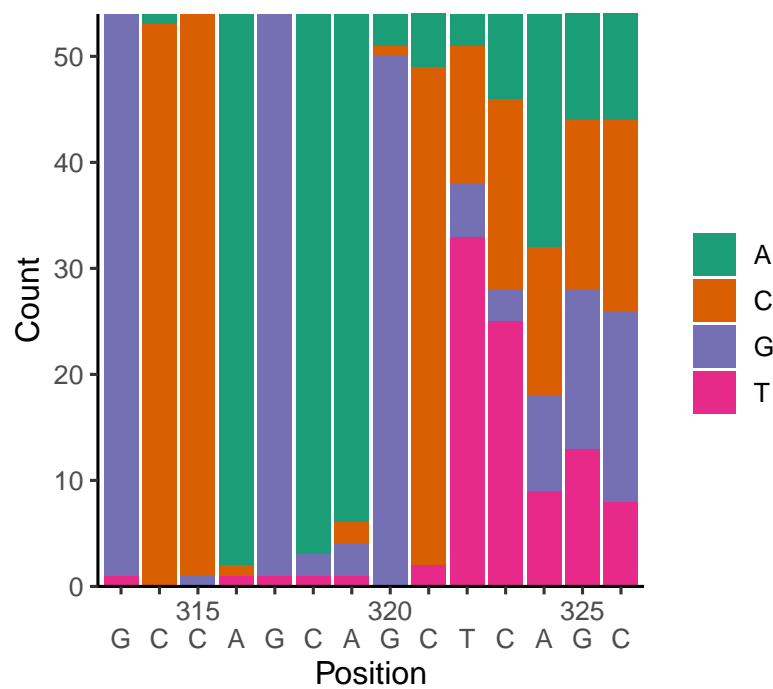
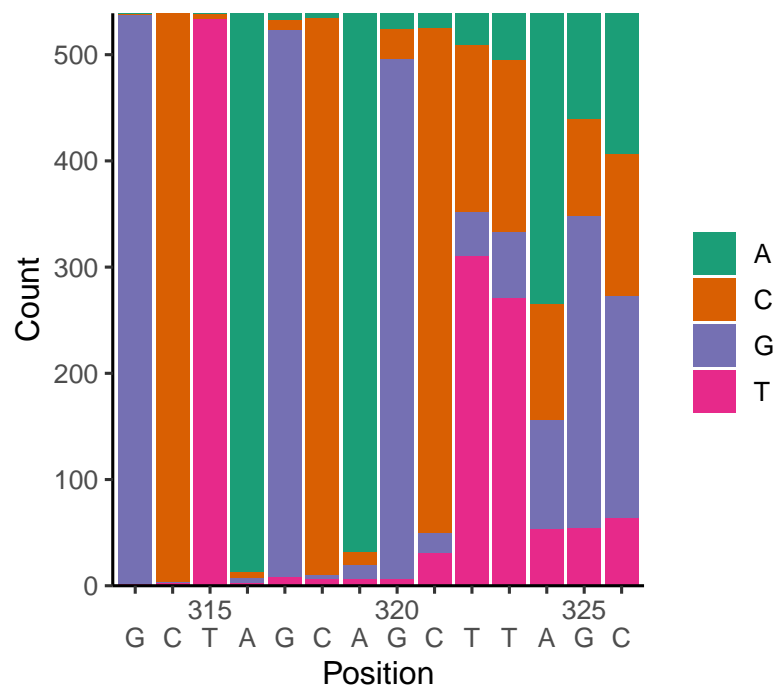


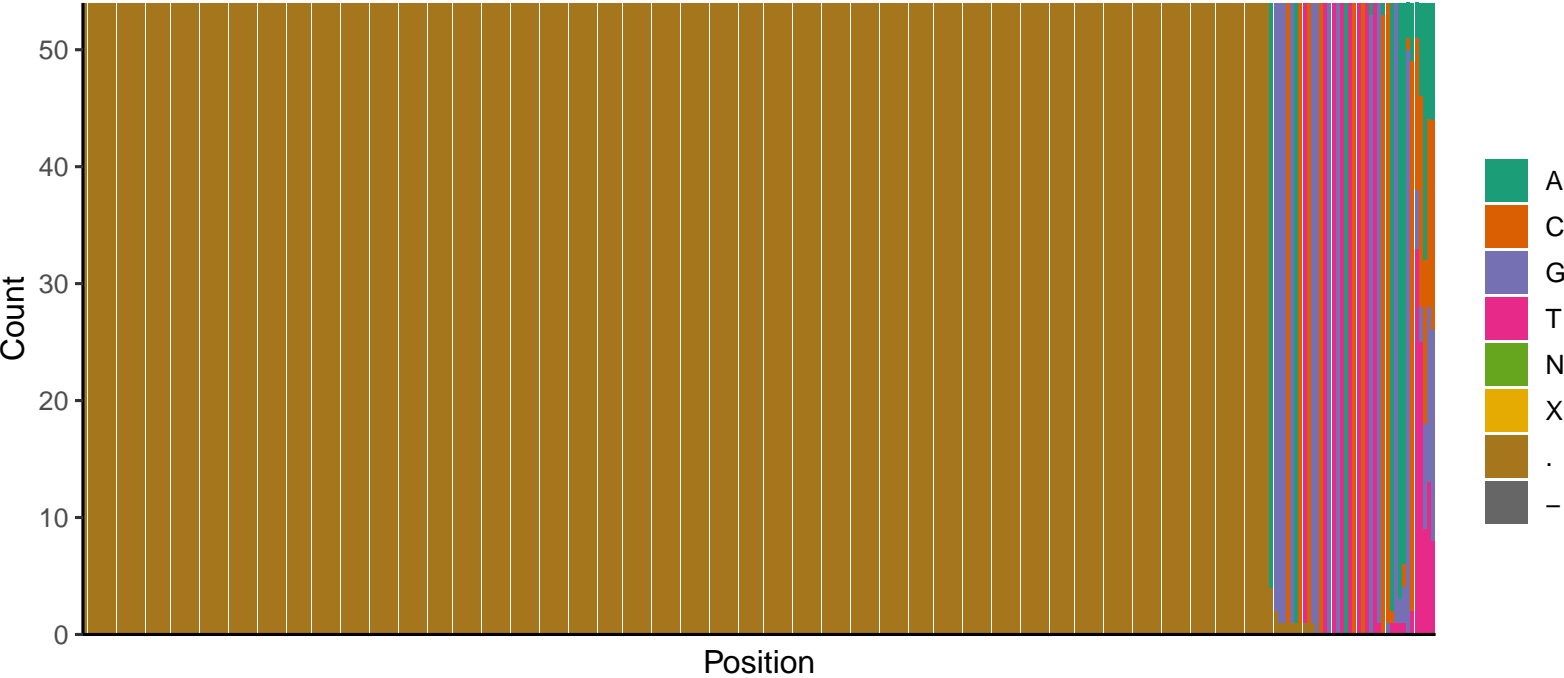
Gene TRBV7-1\*ap01\_G291C\_T296C



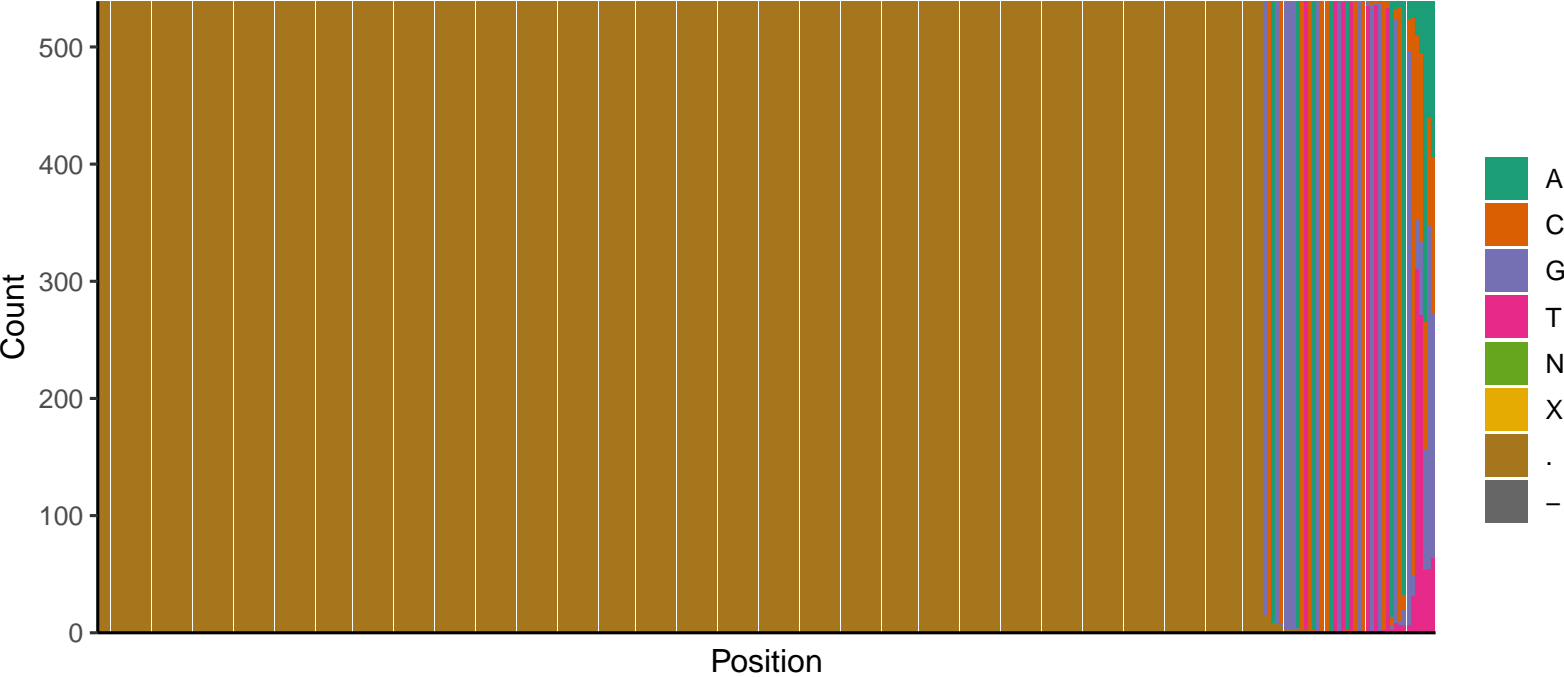
Gene TRBV7-7\*ap01\_C315T



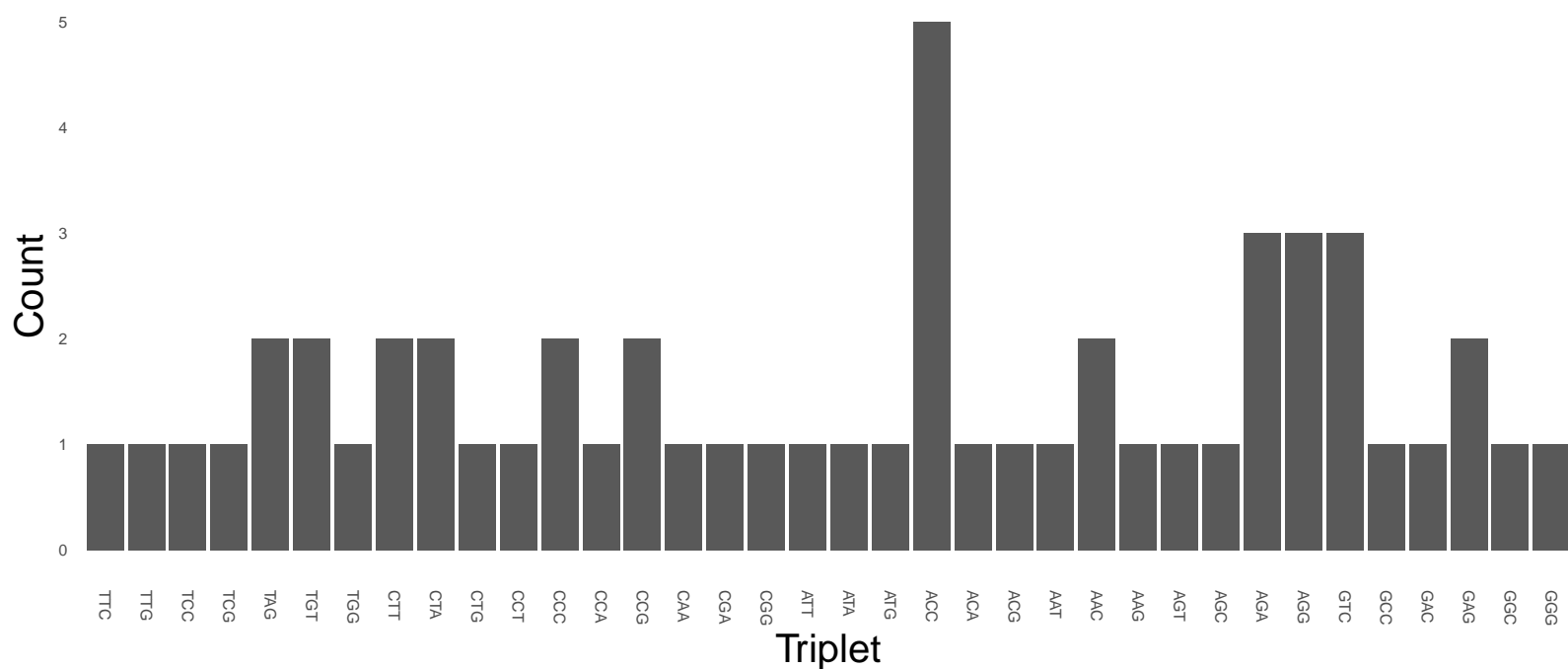
Gene TRBV7-1\*ap01\_G291C\_T296C



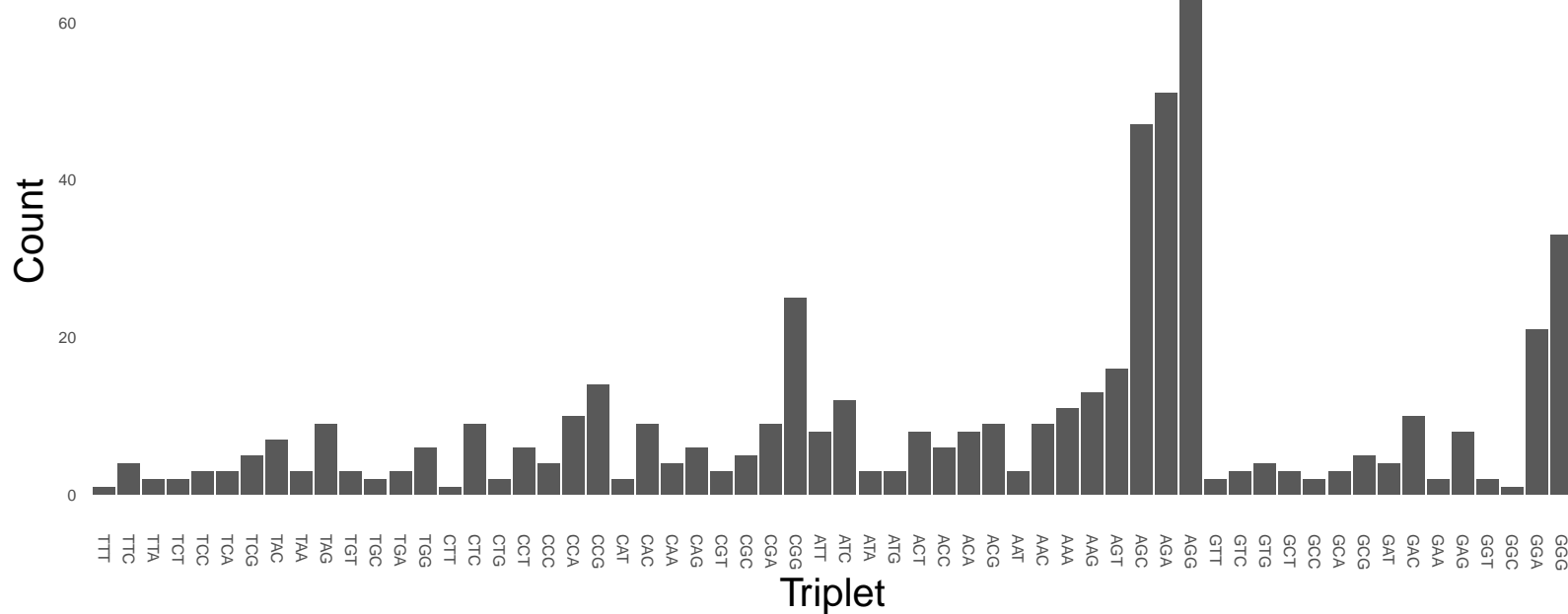
Gene TRBV7-7\*ap01\_C315T



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

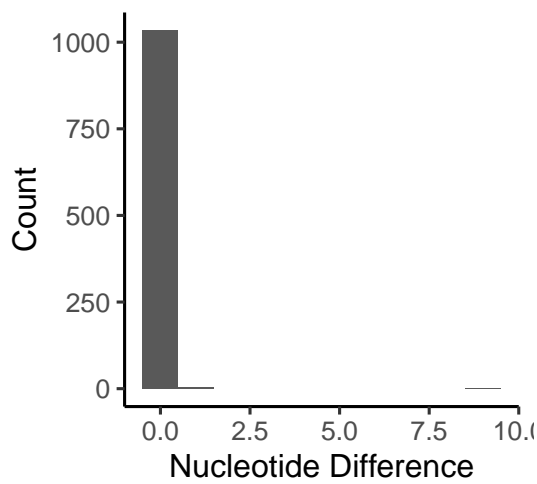


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



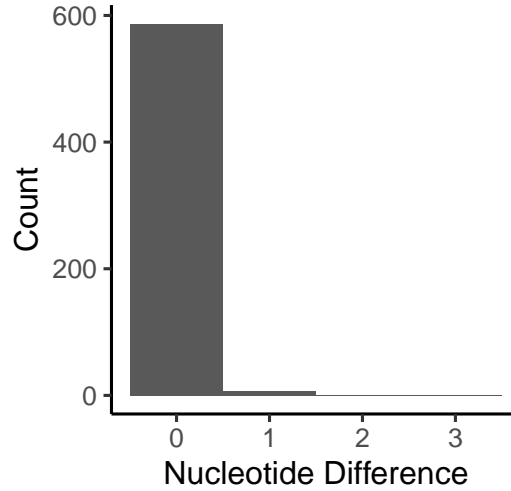
### TRBV10-1\*ap01

1038 sequences assigned  
1034 (99.6%) exact matches, in which:  
1026 unique CDR3  
13 unique J



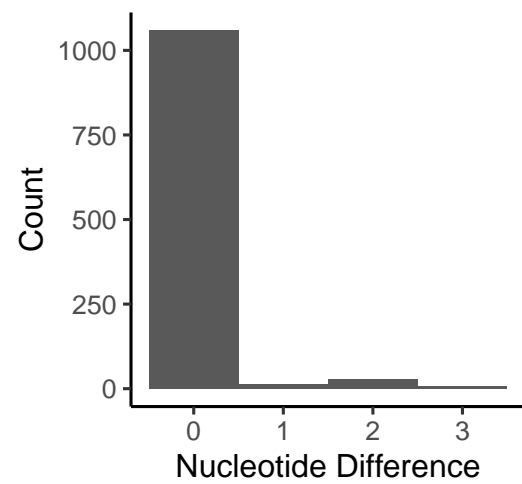
### TRBV10-2\*ap01

596 sequences assigned  
587 (98.5%) exact matches, in which:  
582 unique CDR3  
13 unique J



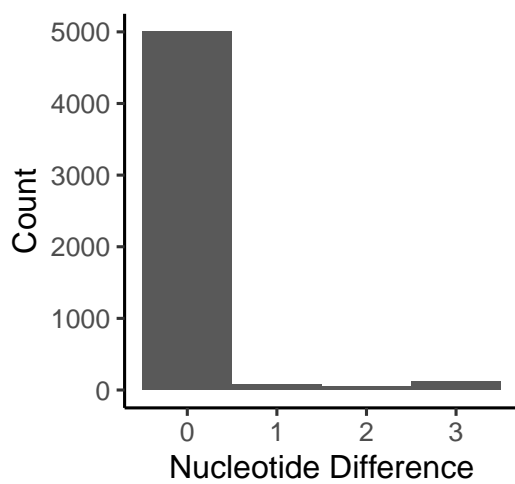
### TRBV13\*ap01

1106 sequences assigned  
1059 (95.8%) exact matches, in which:  
1046 unique CDR3  
13 unique J



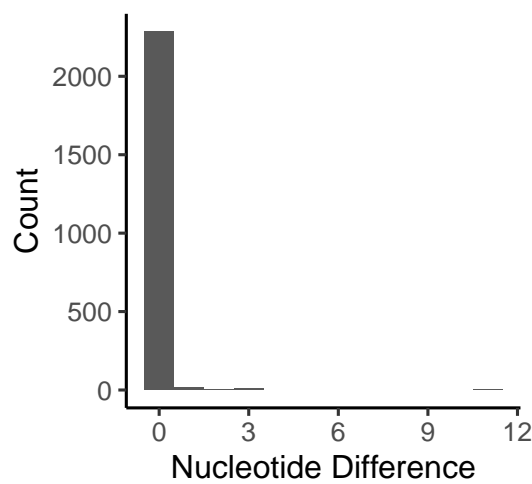
### TRBV20-1\*ap01

5248 sequences assigned  
5002 (95.3%) exact matches, in which:  
4943 unique CDR3  
13 unique J



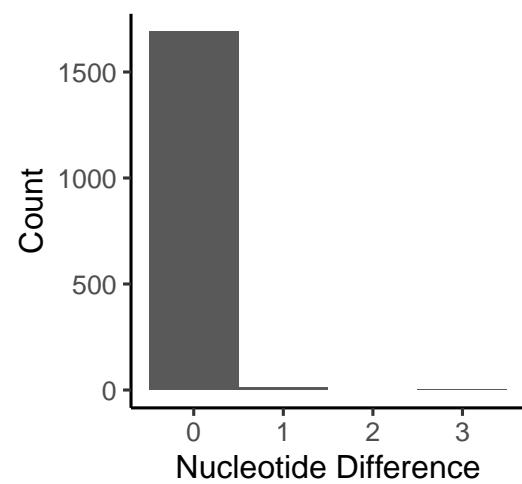
### TRBV10-3\*ap01

2309 sequences assigned  
2284 (98.9%) exact matches, in which:  
2256 unique CDR3  
13 unique J



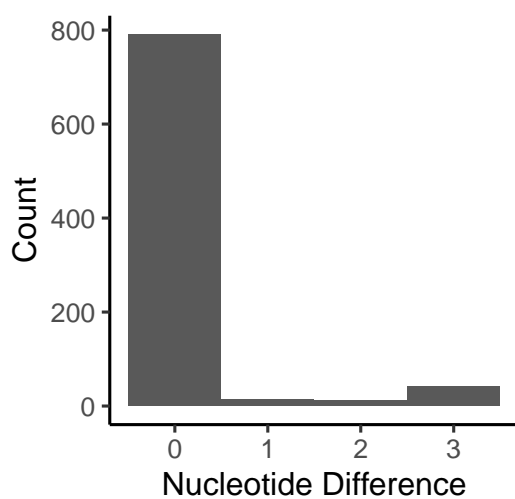
### TRBV14\*ap01

1704 sequences assigned  
1690 (99.2%) exact matches, in which:  
1675 unique CDR3  
13 unique J



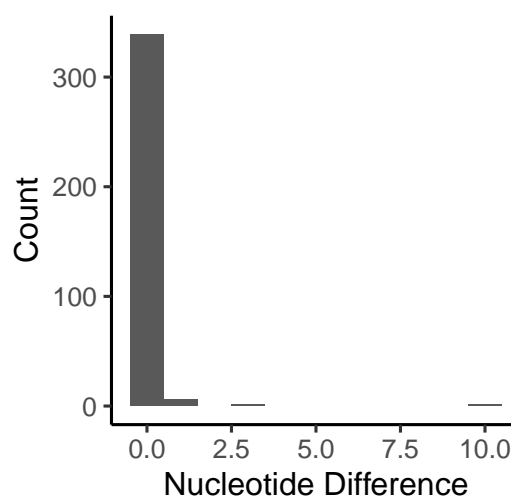
### TRBV20-1\*ap02

857 sequences assigned  
791 (92.3%) exact matches, in which:  
781 unique CDR3  
13 unique J



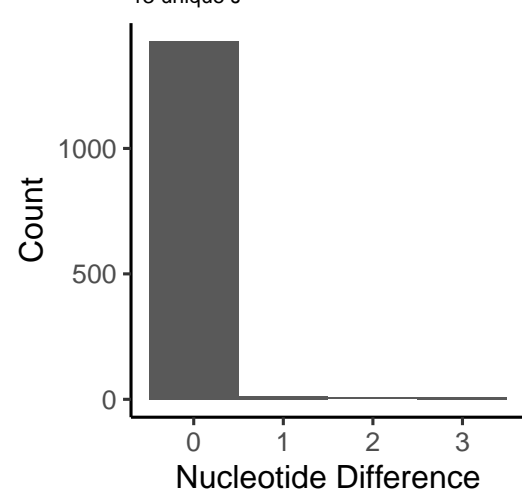
### TRBV1\*ap01

347 sequences assigned  
339 (97.7%) exact matches, in which:  
337 unique CDR3  
13 unique J



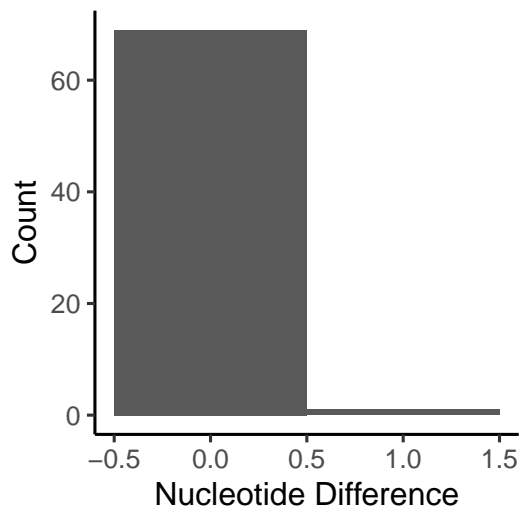
### TRBV15\*ap02

1458 sequences assigned  
1428 (97.9%) exact matches, in which:  
1406 unique CDR3  
13 unique J



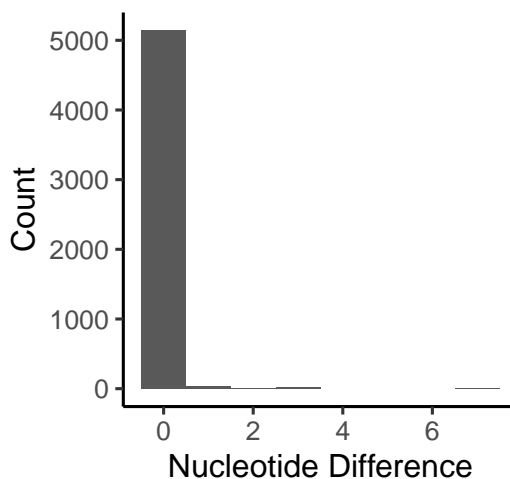
### TRBV16\*ap01

70 sequences assigned  
69 (98.6%) exact matches, in which:  
69 unique CDR3  
12 unique J



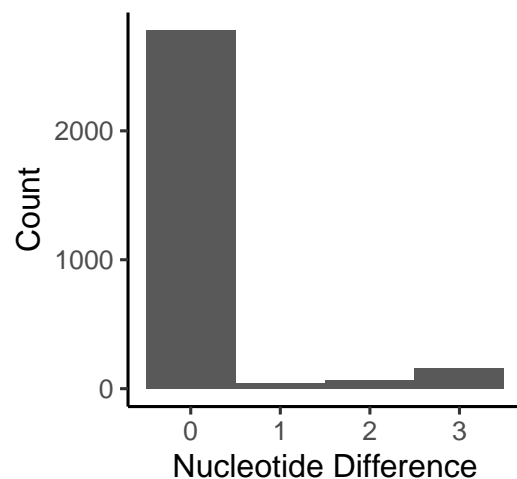
### TRBV2\*ap01

5212 sequences assigned  
5142 (98.7%) exact matches, in which:  
5097 unique CDR3  
13 unique J



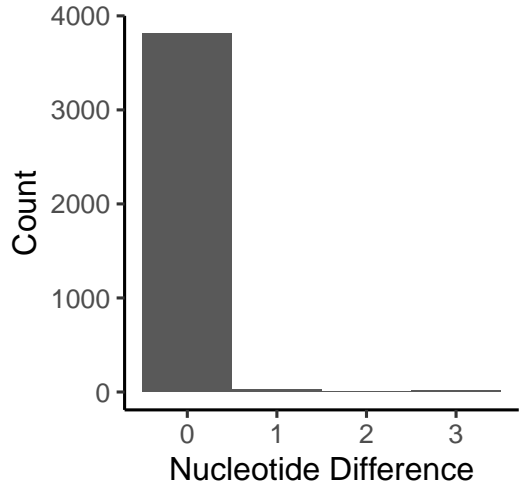
### TRBV30\*ap01

3045 sequences assigned  
2779 (91.3%) exact matches, in which:  
2734 unique CDR3  
13 unique J



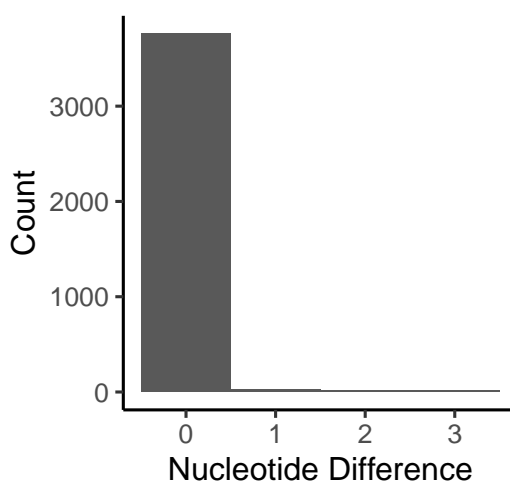
### TRBV18\*ap01

3869 sequences assigned  
3810 (98.5%) exact matches, in which:  
3737 unique CDR3  
13 unique J



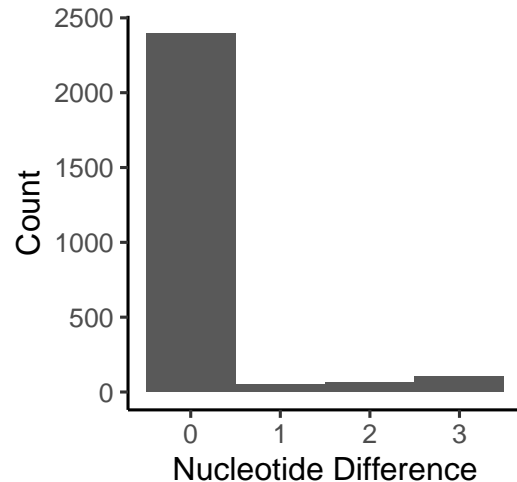
### TRBV27\*ap01

3816 sequences assigned  
3760 (98.5%) exact matches, in which:  
3726 unique CDR3  
13 unique J



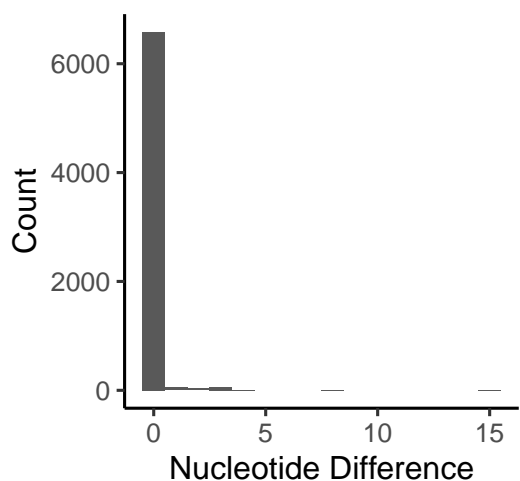
### TRBV30\*ap02

2609 sequences assigned  
2394 (91.8%) exact matches, in which:  
2353 unique CDR3  
13 unique J



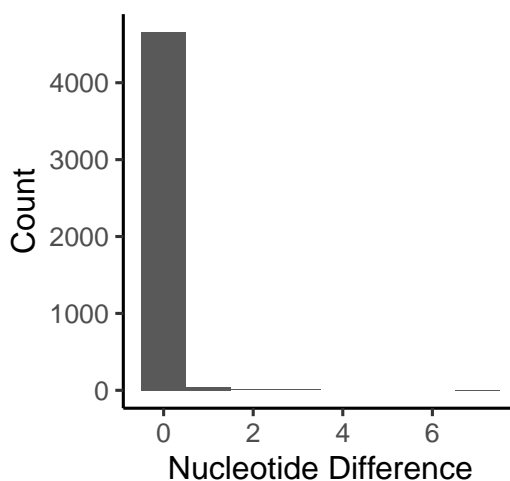
### TRBV19\*ap01

6731 sequences assigned  
6582 (97.8%) exact matches, in which:  
6510 unique CDR3  
13 unique J



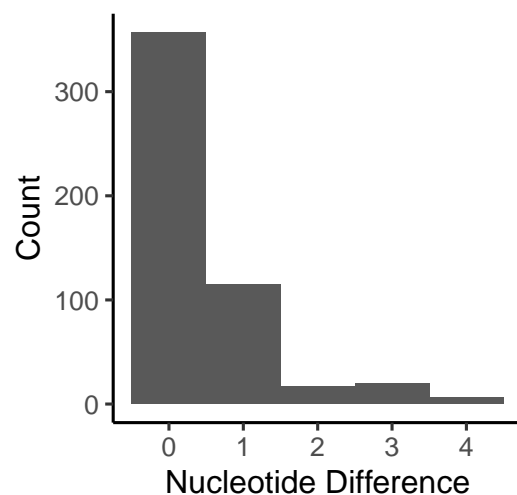
### TRBV28\*ap01

4724 sequences assigned  
4659 (98.6%) exact matches, in which:  
4602 unique CDR3  
13 unique J



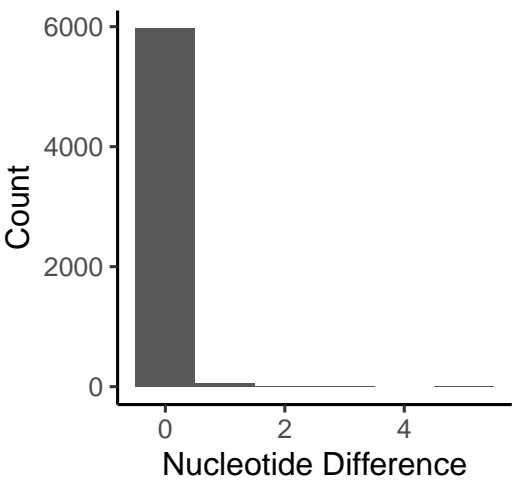
### TRBV30\*ap03

515 sequences assigned  
357 (69.3%) exact matches, in which:  
344 unique CDR3  
13 unique J



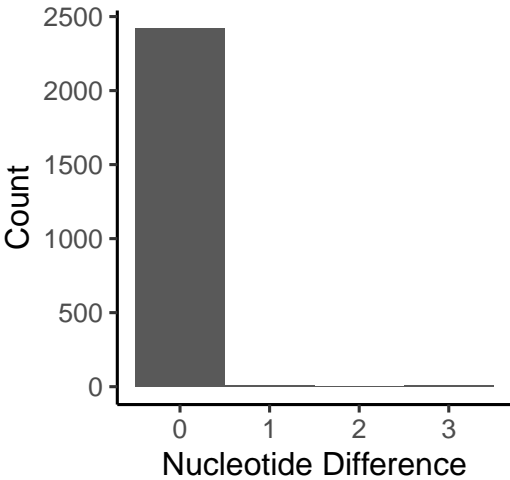
TRBV9\*ap01

6044 sequences assigned  
5971 (98.8%) exact matches, in which:  
5895 unique CDR3  
13 unique J



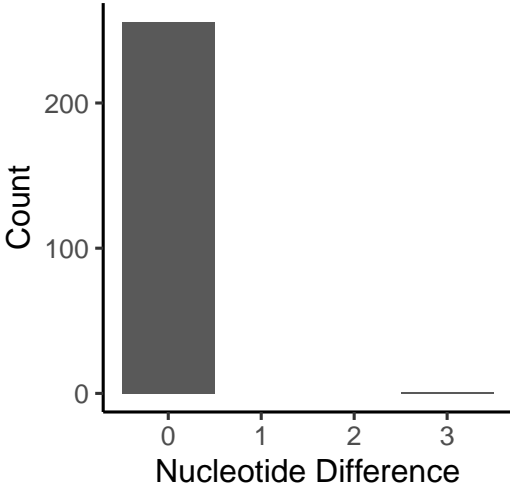
TRBV11-2\*ap01

2441 sequences assigned  
2420 (99.1%) exact matches, in which:  
2394 unique CDR3  
13 unique J



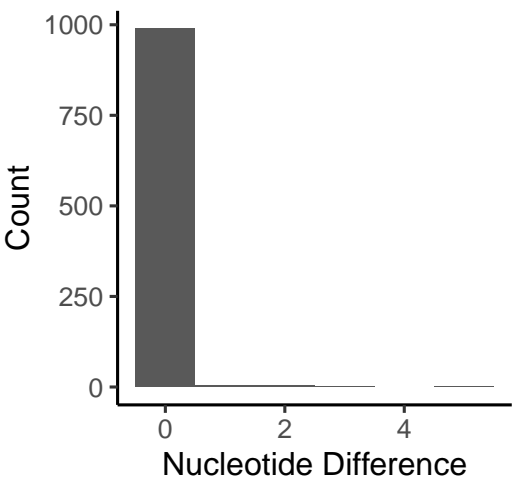
TRBV12-2\*ap01

257 sequences assigned  
256 (99.6%) exact matches, in which:  
252 unique CDR3  
13 unique J



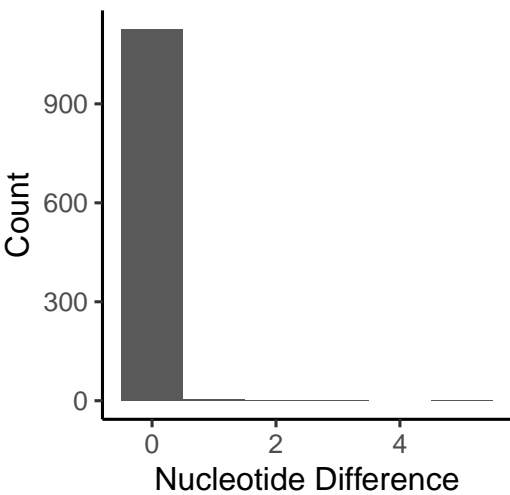
TRBV21-1\*ap01

1001 sequences assigned  
989 (98.8%) exact matches, in which:  
986 unique CDR3  
13 unique J



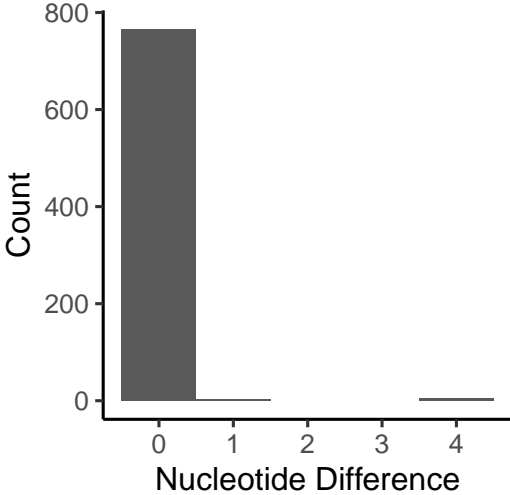
TRBV11-3\*ap01

1138 sequences assigned  
1127 (99%) exact matches, in which:  
1114 unique CDR3  
13 unique J



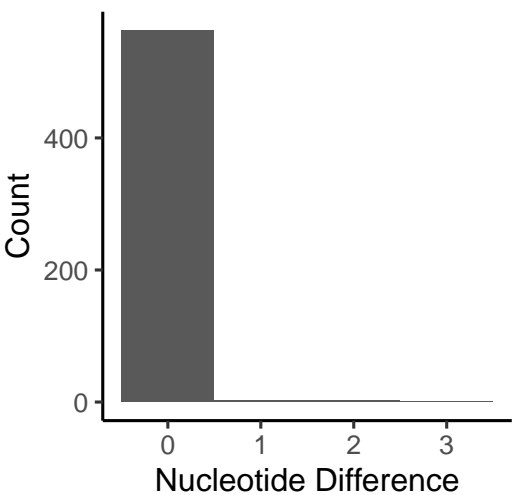
TRBV12-5\*ap01

776 sequences assigned  
766 (98.7%) exact matches, in which:  
760 unique CDR3  
13 unique J



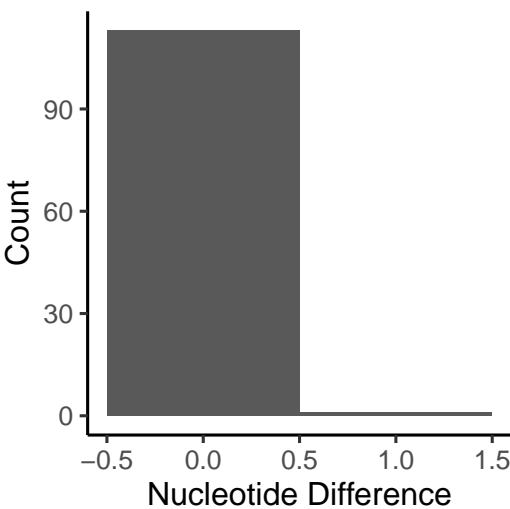
TRBV11-1\*ap01

569 sequences assigned  
563 (98.9%) exact matches, in which:  
557 unique CDR3  
13 unique J



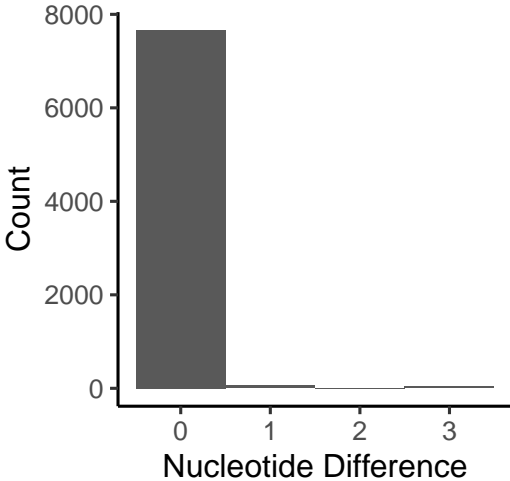
TRBV12-1\*ap01

114 sequences assigned  
113 (99.1%) exact matches, in which:  
112 unique CDR3  
13 unique J



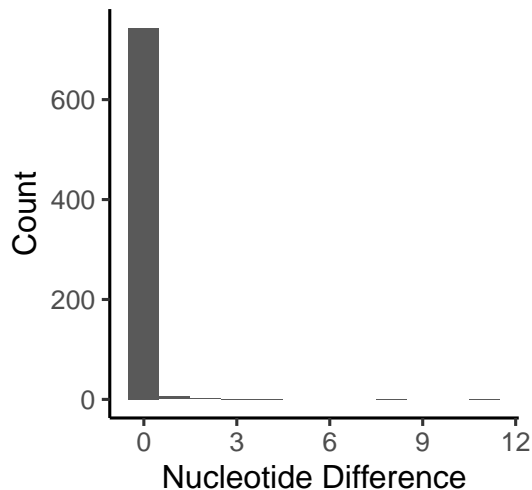
TRBV12-34\*ap01

7774 sequences assigned  
7664 (98.6%) exact matches, in which:  
7599 unique CDR3  
13 unique J



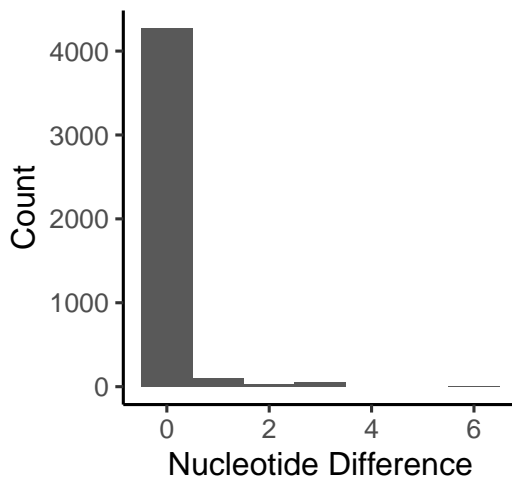
### TRBV23–1\*ap01

756 sequences assigned  
744 (98.4%) exact matches, in which:  
739 unique CDR3  
13 unique J



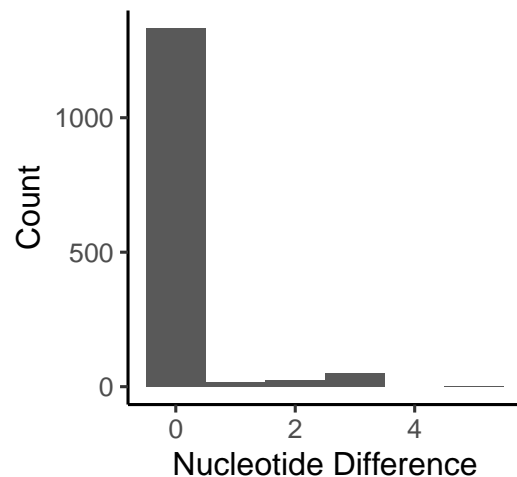
### TRBV4–1\*ap01

4455 sequences assigned  
4270 (95.8%) exact matches, in which:  
4202 unique CDR3  
13 unique J



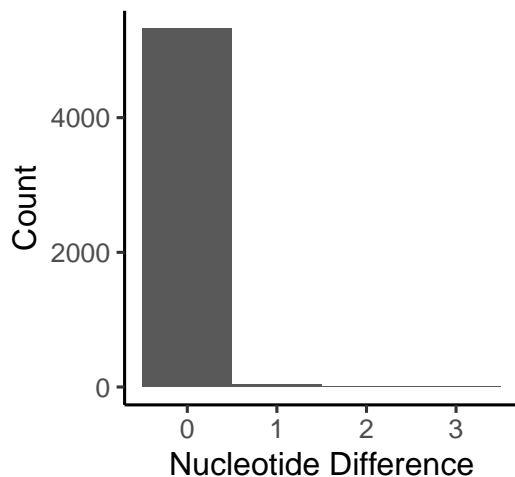
### TRBV25–1\*ap01

1425 sequences assigned  
1332 (93.5%) exact matches, in which:  
1319 unique CDR3  
13 unique J



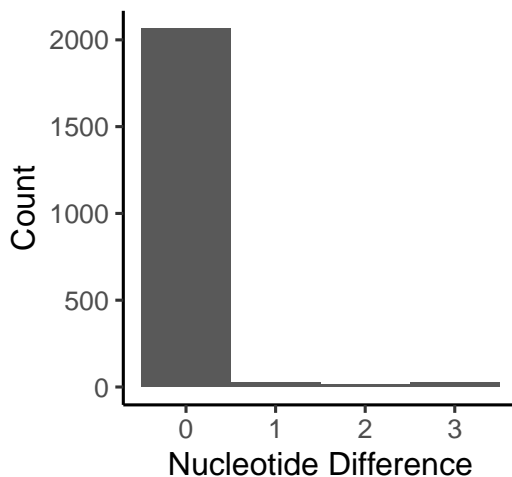
### TRBV3–12\*ap01

5375 sequences assigned  
5321 (99%) exact matches, in which:  
5282 unique CDR3  
13 unique J



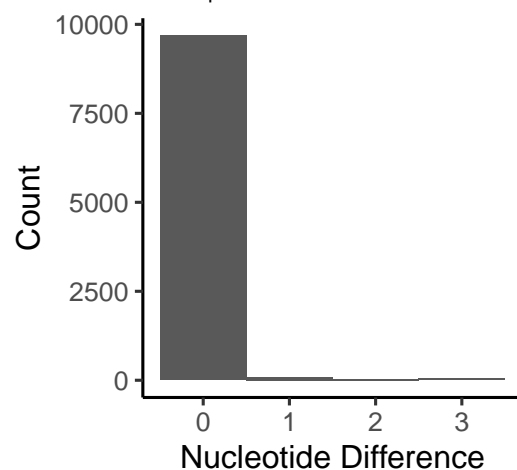
### TRBV4–2\*ap01

2129 sequences assigned  
2064 (96.9%) exact matches, in which:  
2045 unique CDR3  
13 unique J



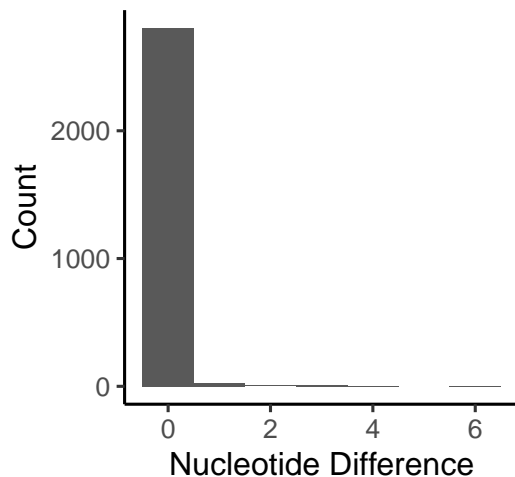
### TRBV5–1\*ap01

9863 sequences assigned  
9688 (98.2%) exact matches, in which:  
9560 unique CDR3  
14 unique J



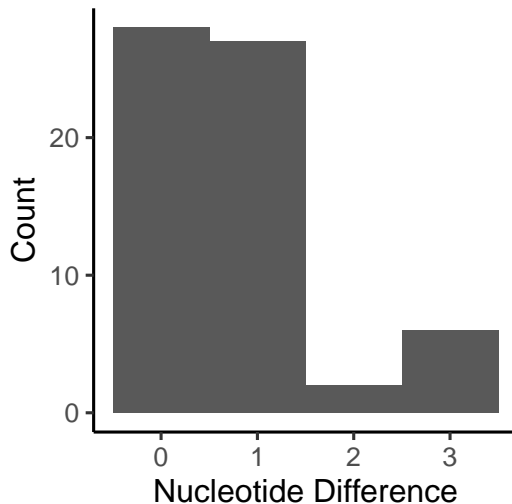
### TRBV24–1\*ap01

2849 sequences assigned  
2804 (98.4%) exact matches, in which:  
2781 unique CDR3  
13 unique J



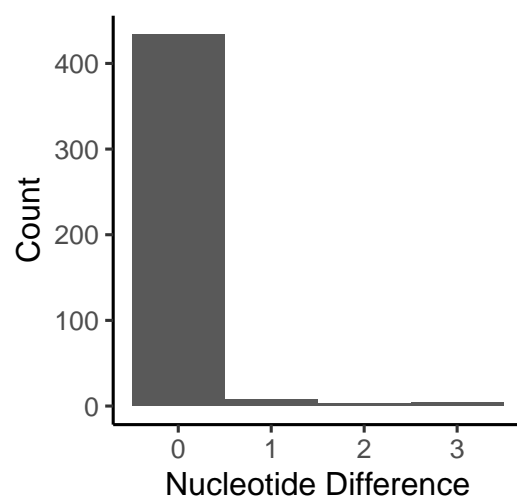
### TRBV4–3\*ap01

63 sequences assigned  
28 (44.4%) exact matches, in which:  
28 unique CDR3  
9 unique J



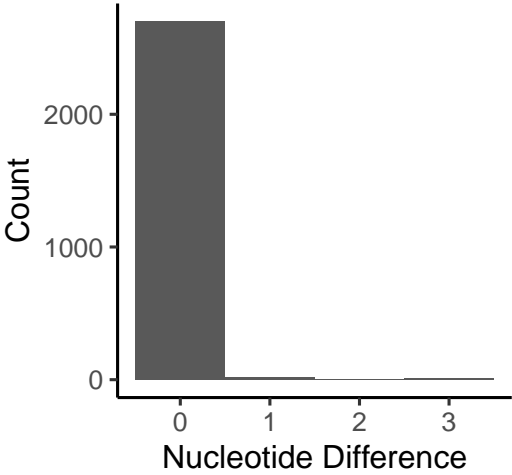
### TRBV5–3\*ap01

449 sequences assigned  
434 (96.7%) exact matches, in which:  
430 unique CDR3  
13 unique J



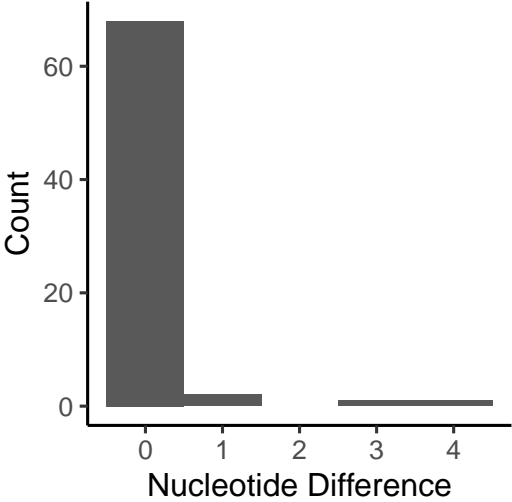
TRBV5-4\*ap01

2727 sequences assigned  
2700 (99%) exact matches, in which:  
2679 unique CDR3  
13 unique J



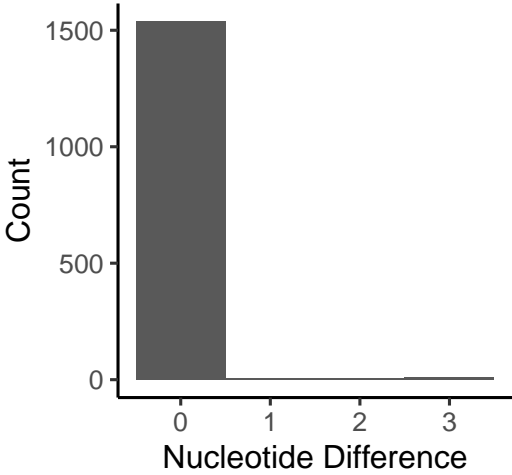
TRBV5-7\*ap01

72 sequences assigned  
68 (94.4%) exact matches, in which:  
67 unique CDR3  
12 unique J



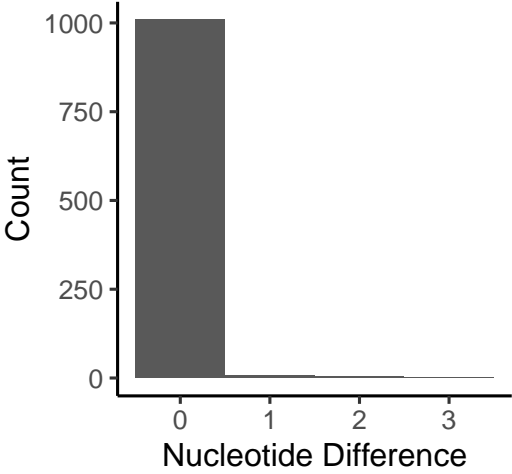
TRBV6-4\*ap01

1558 sequences assigned  
1538 (98.7%) exact matches, in which:  
1526 unique CDR3  
13 unique J



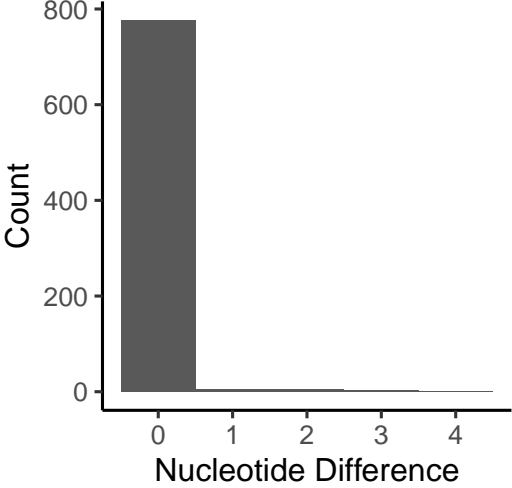
TRBV5-5\*ap01

1021 sequences assigned  
1009 (98.8%) exact matches, in which:  
993 unique CDR3  
13 unique J



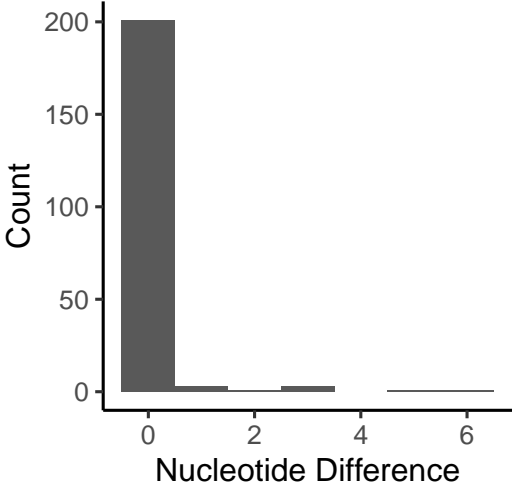
TRBV5-8\*ap01

792 sequences assigned  
777 (98.1%) exact matches, in which:  
767 unique CDR3  
13 unique J



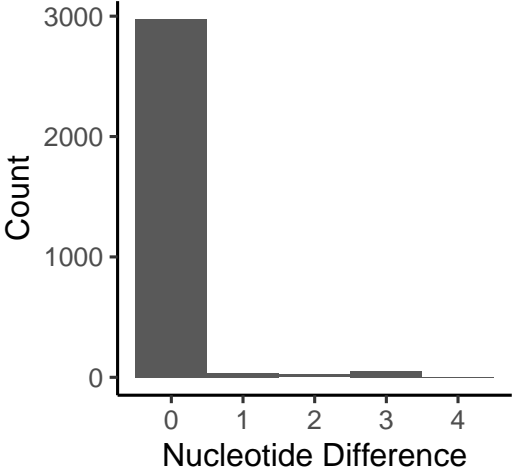
TRBV6-7\*ap01

210 sequences assigned  
201 (95.7%) exact matches, in which:  
200 unique CDR3  
12 unique J



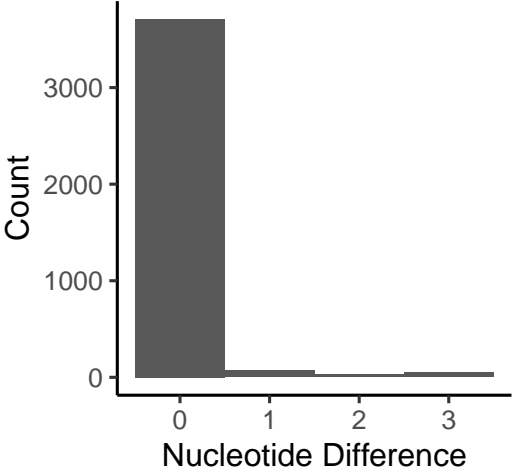
TRBV5-6\*ap01

3086 sequences assigned  
2976 (96.4%) exact matches, in which:  
2935 unique CDR3  
13 unique J



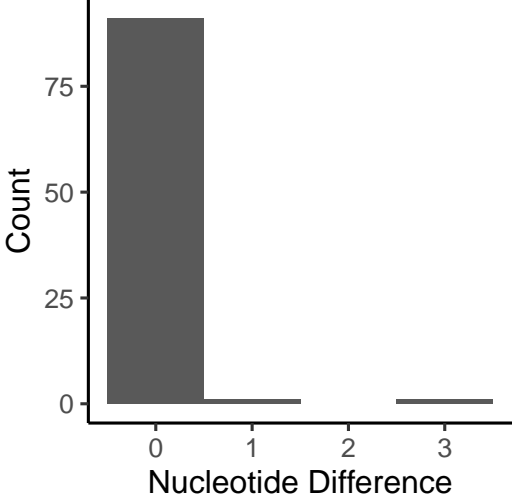
TRBV6-1\*ap01

3861 sequences assigned  
3710 (96.1%) exact matches, in which:  
3661 unique CDR3  
13 unique J



TRBV6-8\*ap01

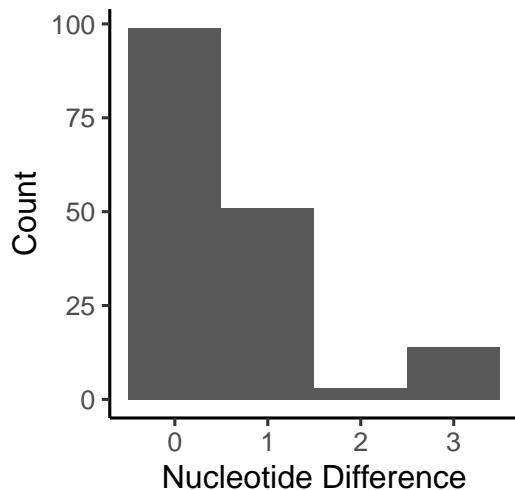
93 sequences assigned  
91 (97.8%) exact matches, in which:  
91 unique CDR3  
12 unique J





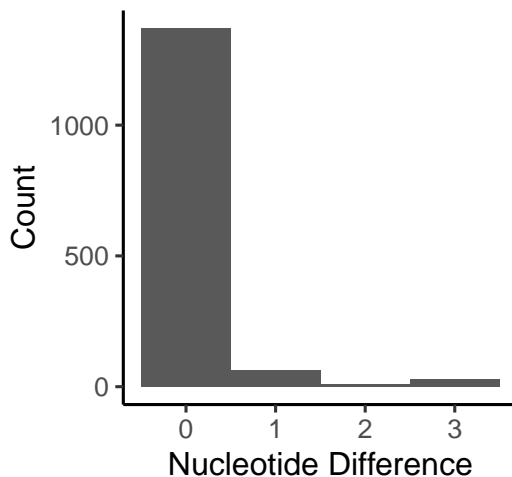
### TRBV6–9\*ap01

167 sequences assigned  
99 (59.3%) exact matches, in which:  
98 unique CDR3  
13 unique J



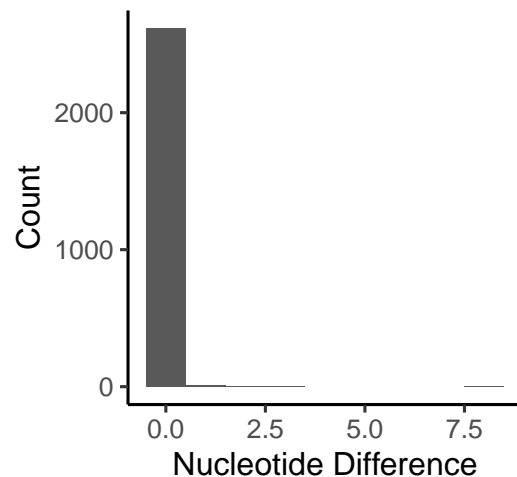
### TRBV6–56\*ap02

1468 sequences assigned  
1370 (93.3%) exact matches, in which:  
1350 unique CDR3  
13 unique J



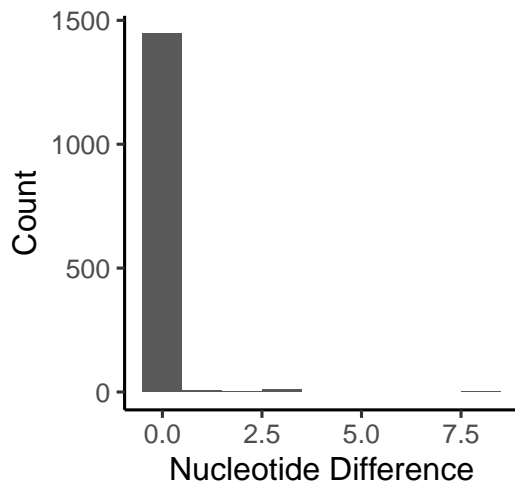
### TRBV7–3\*ap01

2636 sequences assigned  
2615 (99.2%) exact matches, in which:  
2594 unique CDR3  
13 unique J



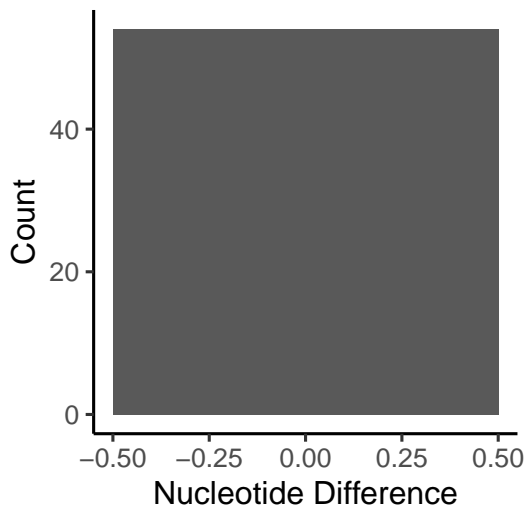
### TRBV6–23\*ap01

1469 sequences assigned  
1446 (98.4%) exact matches, in which:  
1425 unique CDR3  
13 unique J



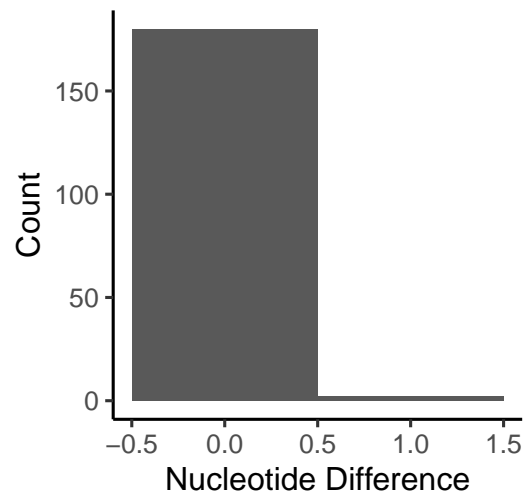
### TRBV7–1\*ap01\_G291C\_T

54 sequences assigned  
54 (100%) exact matches, in which:  
54 unique CDR3  
13 unique J



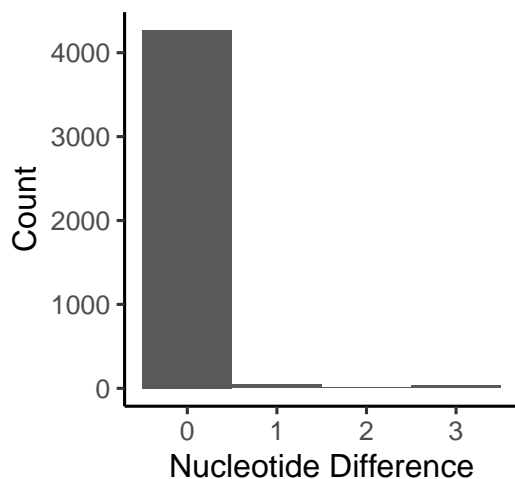
### TRBV7–4\*ap01

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



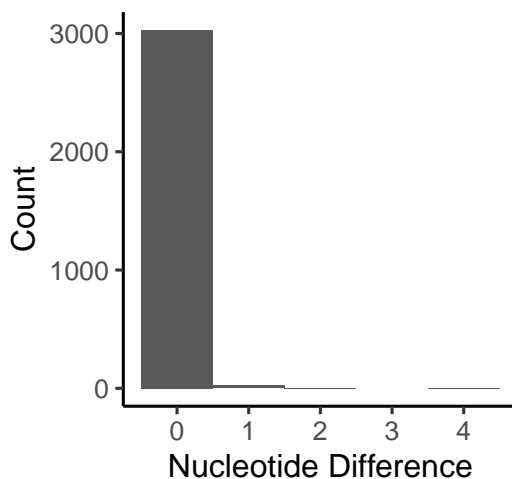
### TRBV6–56\*ap01

4357 sequences assigned  
4270 (98%) exact matches, in which:  
4174 unique CDR3  
13 unique J



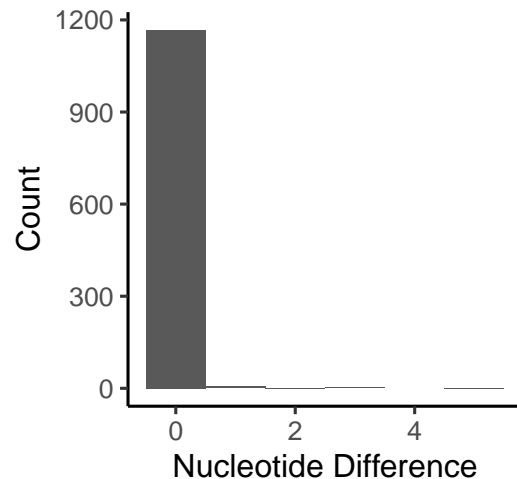
### TRBV7–2\*ap01

3059 sequences assigned  
3029 (99%) exact matches, in which:  
2999 unique CDR3  
13 unique J



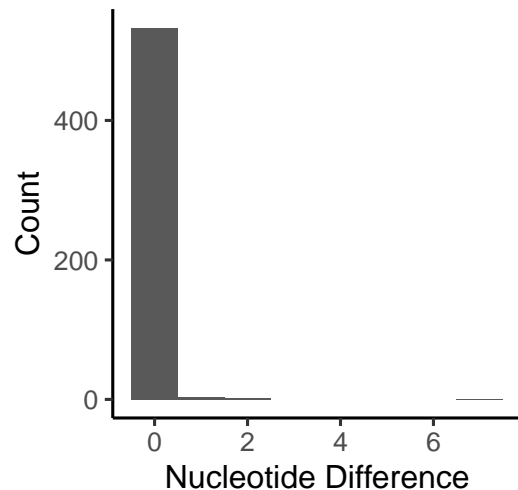
### TRBV7–6\*ap01

1179 sequences assigned  
1167 (99%) exact matches, in which:  
1150 unique CDR3  
13 unique J



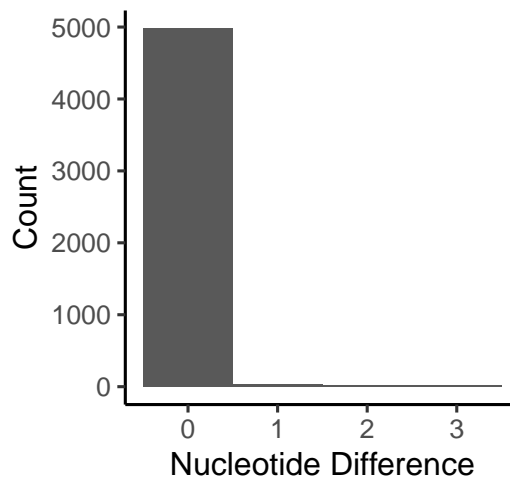
### TRBV7-7\*ap01\_C315T

539 sequences assigned  
533 (98.9%) exact matches, in which:  
525 unique CDR3  
13 unique J



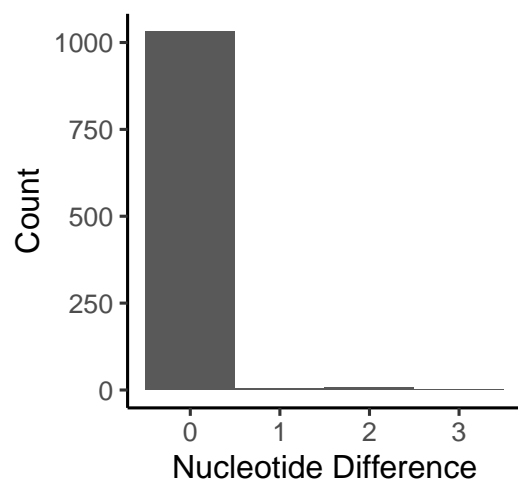
### TRBV7-9\*ap01

5065 sequences assigned  
4981 (98.3%) exact matches, in which:  
4915 unique CDR3  
13 unique J



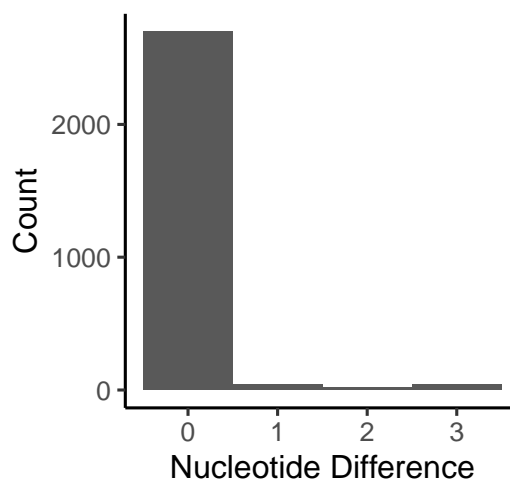
### TRBV7-8\*ap01

1044 sequences assigned  
1031 (98.8%) exact matches, in which:  
1025 unique CDR3  
13 unique J



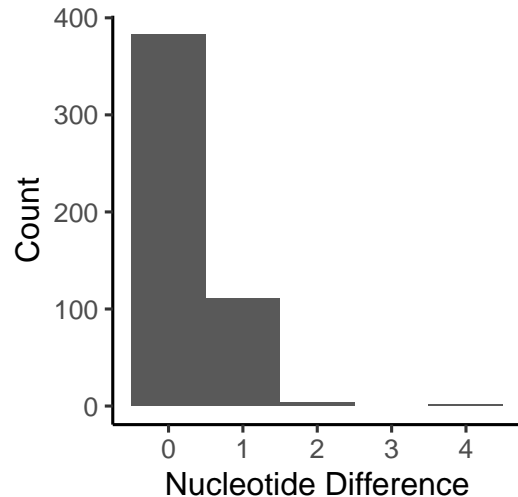
### TRBV29-1\*ap01

2793 sequences assigned  
2698 (96.6%) exact matches, in which:  
2635 unique CDR3  
13 unique J



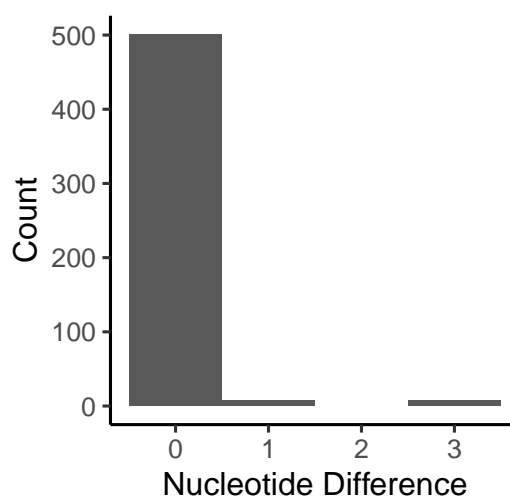
### TRBV7-8\*ap03

500 sequences assigned  
383 (76.6%) exact matches, in which:  
382 unique CDR3  
13 unique J

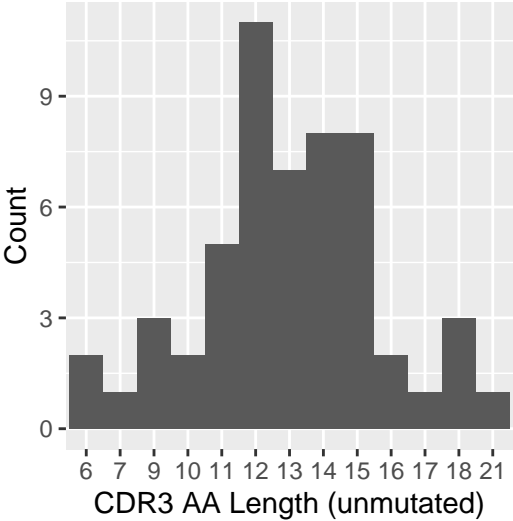


### TRBV29-1\*ap02

516 sequences assigned  
501 (97.1%) exact matches, in which:  
494 unique CDR3  
13 unique J



TRBV7-1\*ap01\_G291C\_T296C



TRBV7-7\*ap01\_C315T

