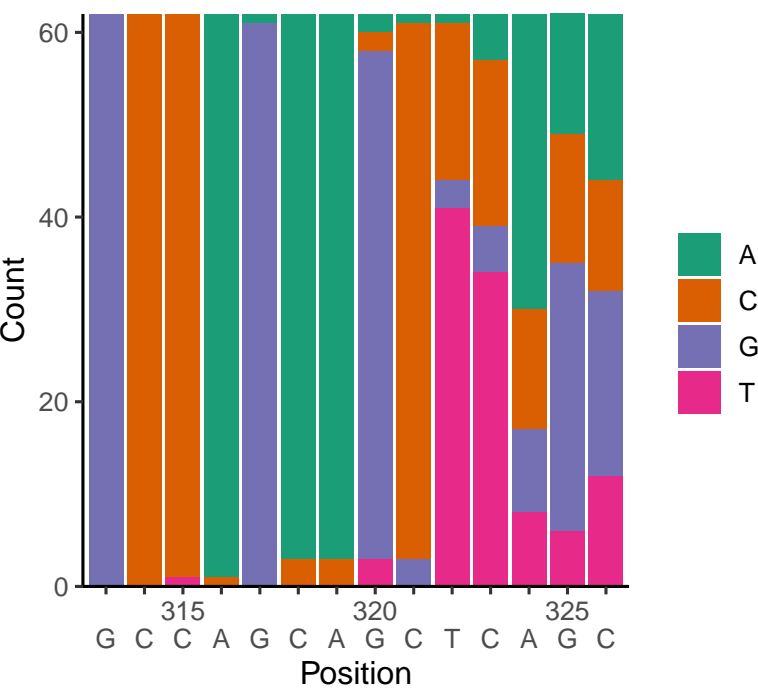
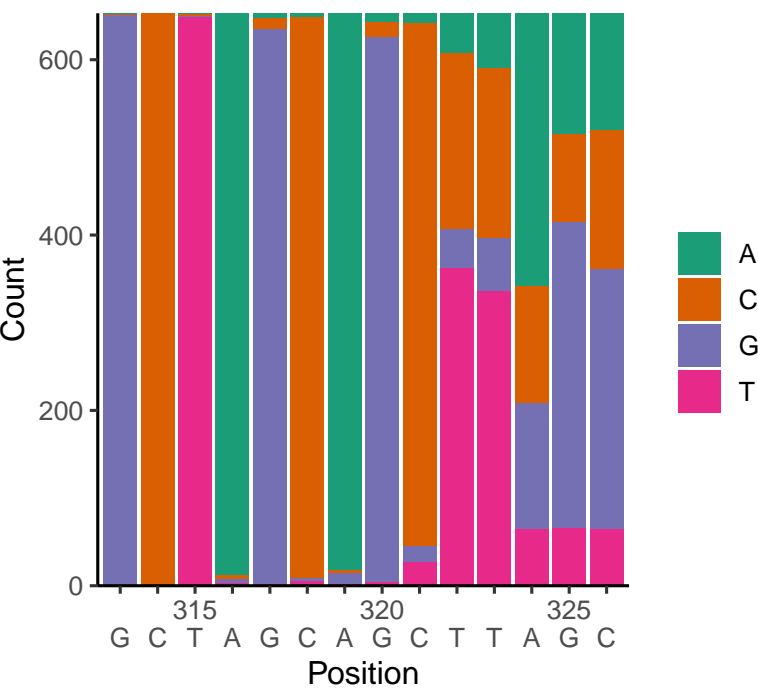


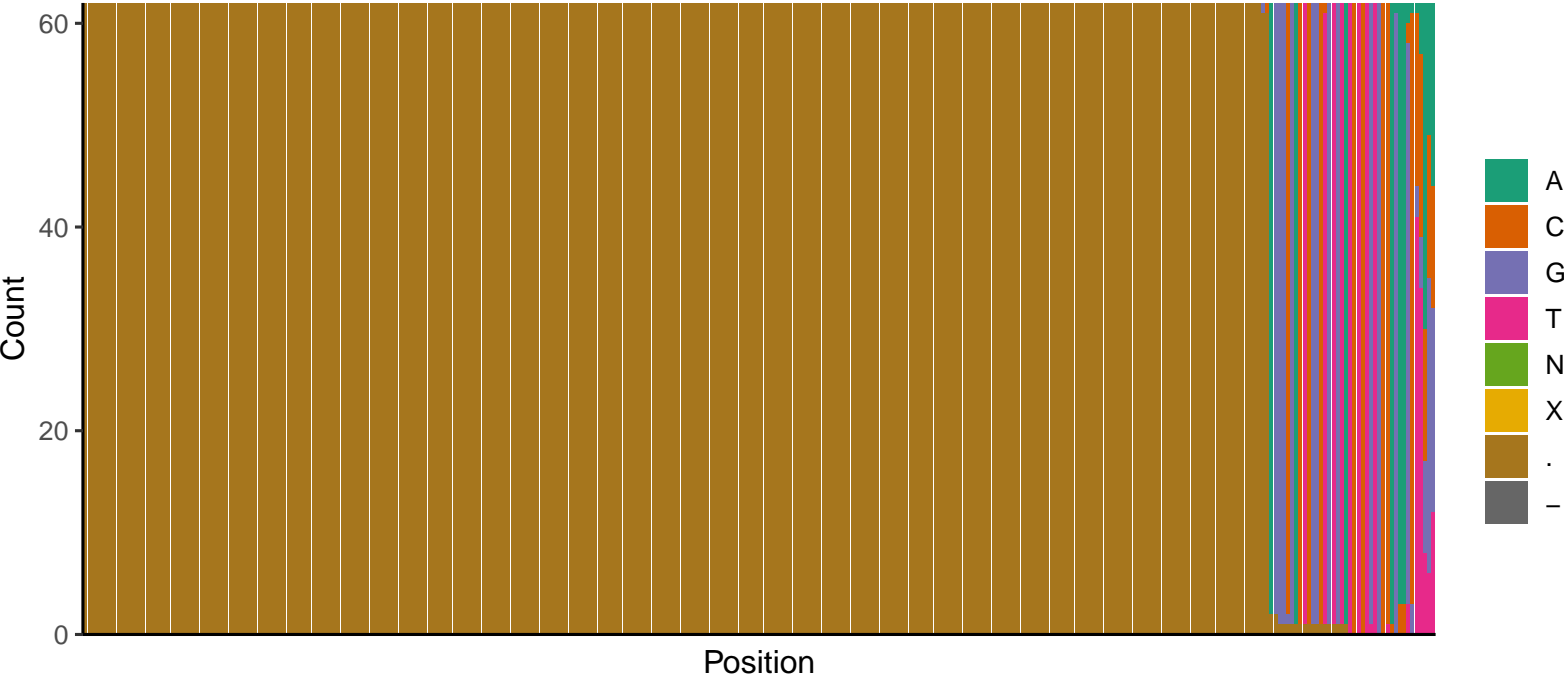
Gene TRBV7-1\*ap01\_G291C\_T296C



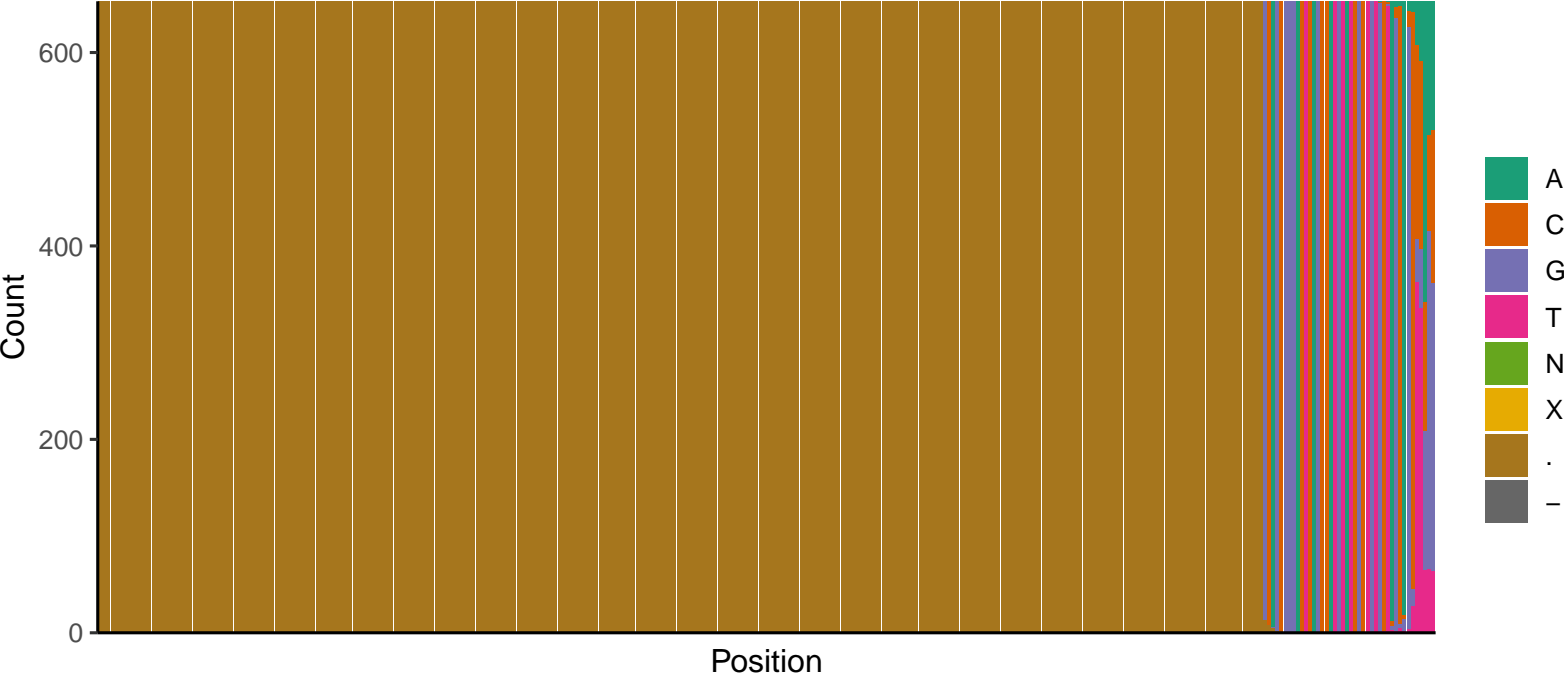
Gene TRBV7-7\*ap01\_C315T



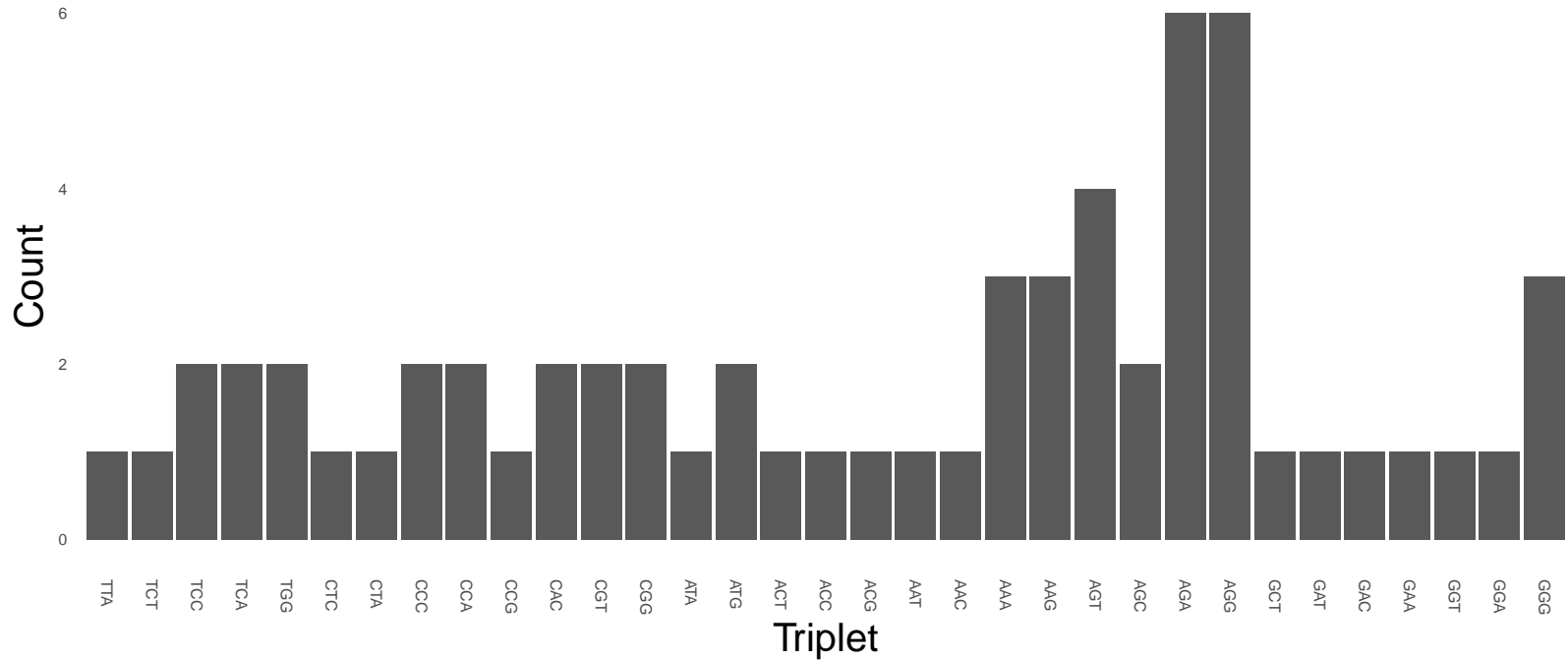
Gene TRBV7-1\*ap01\_G291C\_T296C



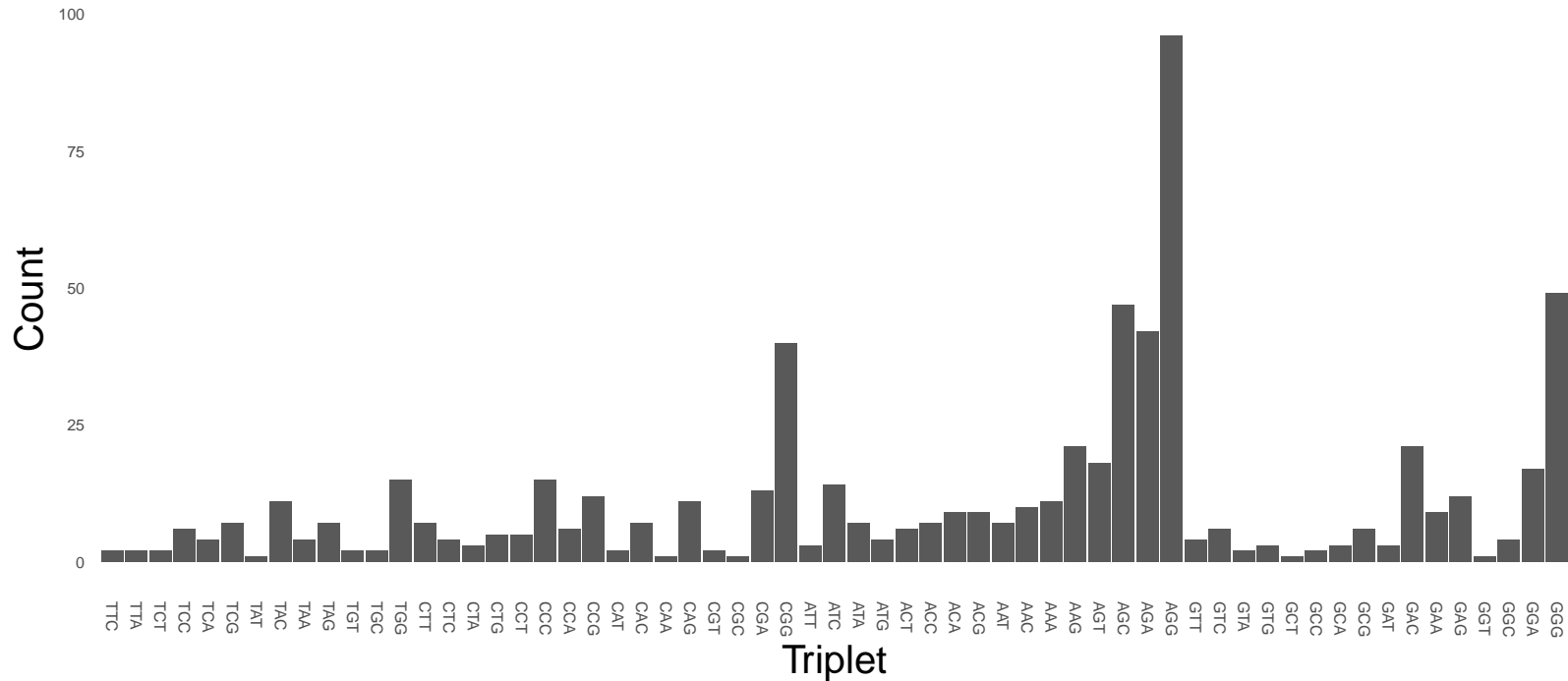
Gene TRBV7-7\*ap01\_C315T



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

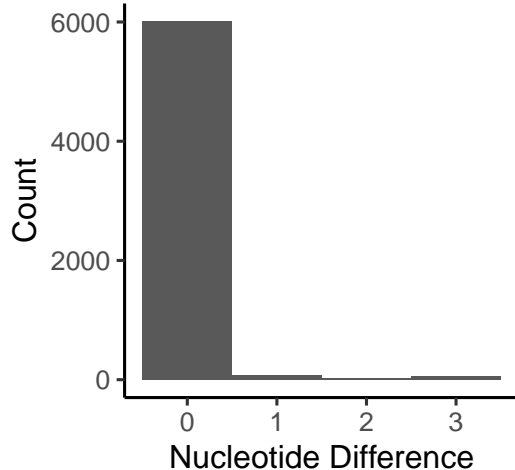


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



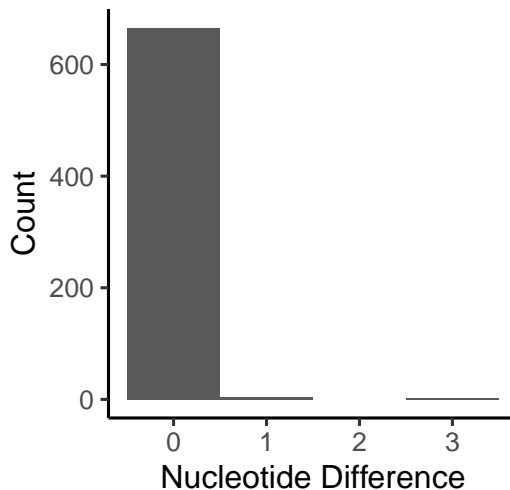
### TRBV20-1\*ap01

6157 sequences assigned  
6010 (97.6%) exact matches, in which:  
5943 unique CDR3  
14 unique J



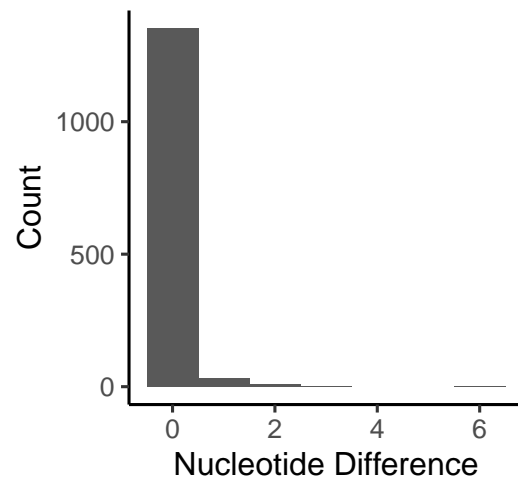
### TRBV10-2\*ap01

672 sequences assigned  
666 (99.1%) exact matches, in which:  
662 unique CDR3  
14 unique J



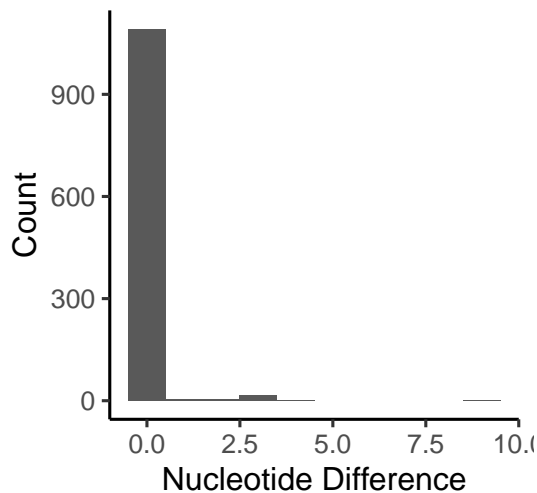
### TRBV13\*ap01

1399 sequences assigned  
1352 (96.6%) exact matches, in which:  
1339 unique CDR3  
14 unique J



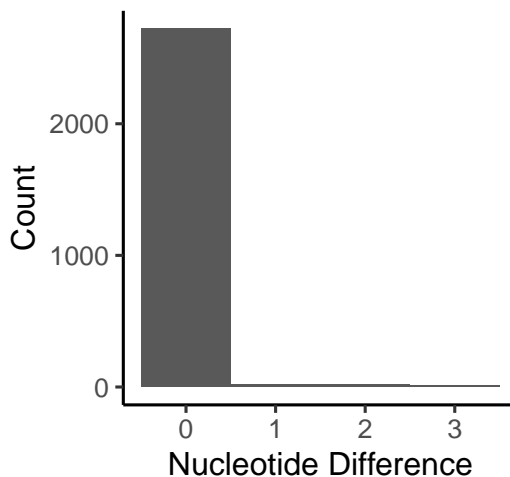
### TRBV10-1\*ap01

1118 sequences assigned  
1092 (97.7%) exact matches, in which:  
1084 unique CDR3  
14 unique J



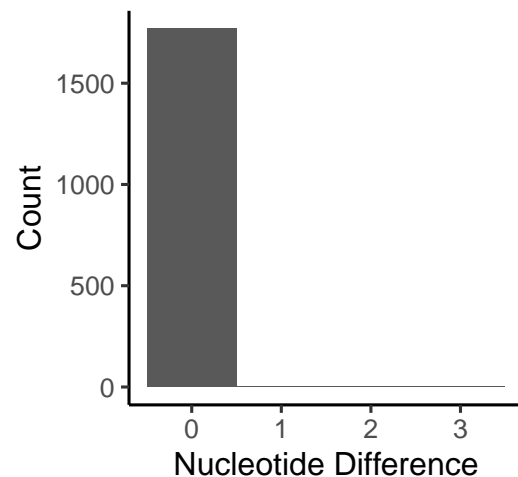
### TRBV10-3\*ap01

2774 sequences assigned  
2722 (98.1%) exact matches, in which:  
2705 unique CDR3  
14 unique J



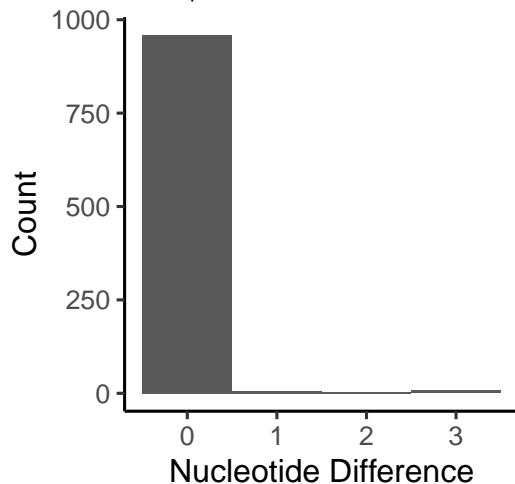
### TRBV14\*ap01

1778 sequences assigned  
1769 (99.5%) exact matches, in which:  
1755 unique CDR3  
14 unique J



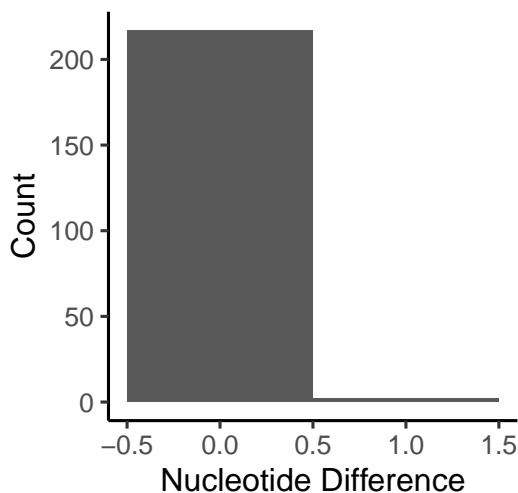
### TRBV20-1\*ap02

976 sequences assigned  
959 (98.3%) exact matches, in which:  
943 unique CDR3  
14 unique J



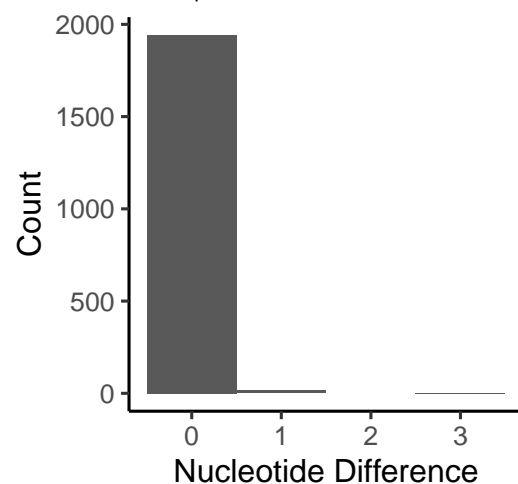
### TRBV1\*ap01

219 sequences assigned  
217 (99.1%) exact matches, in which:  
212 unique CDR3  
12 unique J



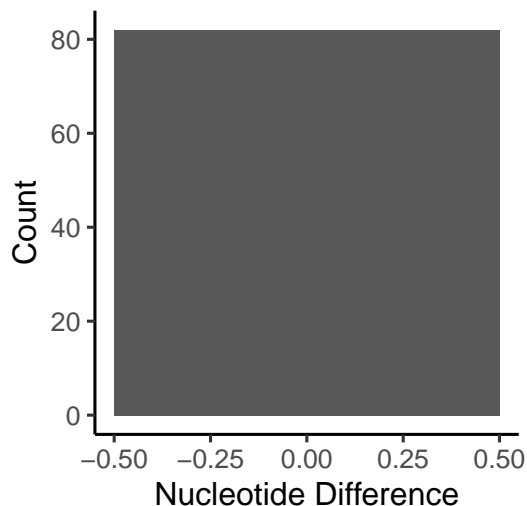
### TRBV15\*ap02

1959 sequences assigned  
1942 (99.1%) exact matches, in which:  
1925 unique CDR3  
14 unique J



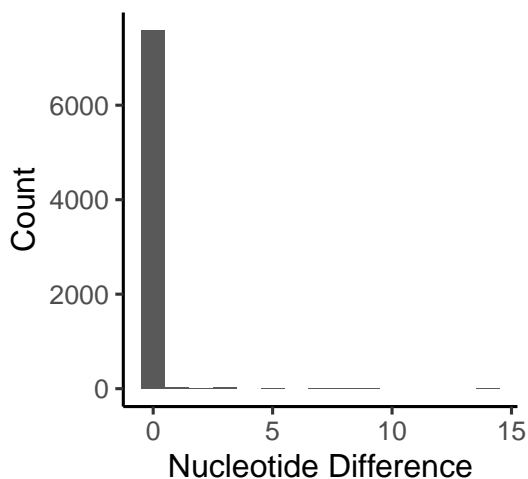
### TRBV16\*ap01

82 sequences assigned  
82 (100%) exact matches, in which:  
82 unique CDR3  
12 unique J



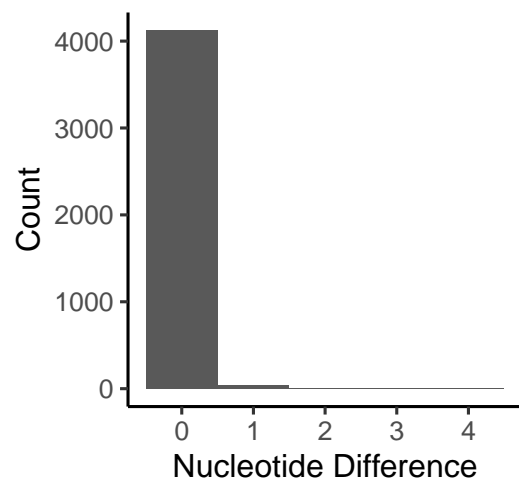
### TRBV19\*ap01

7680 sequences assigned  
7583 (98.7%) exact matches, in which:  
7543 unique CDR3  
14 unique J



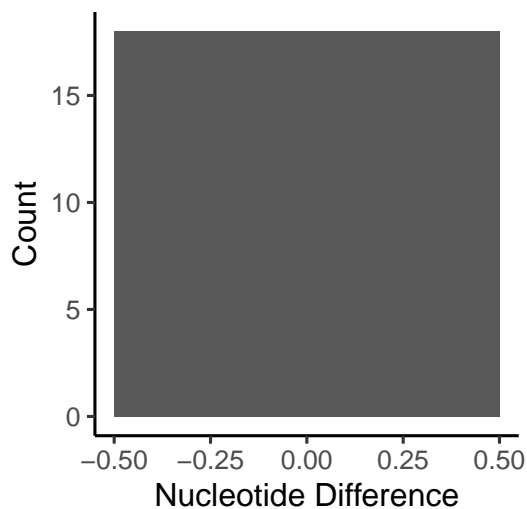
### TRBV28\*ap01

4187 sequences assigned  
4123 (98.5%) exact matches, in which:  
4085 unique CDR3  
14 unique J



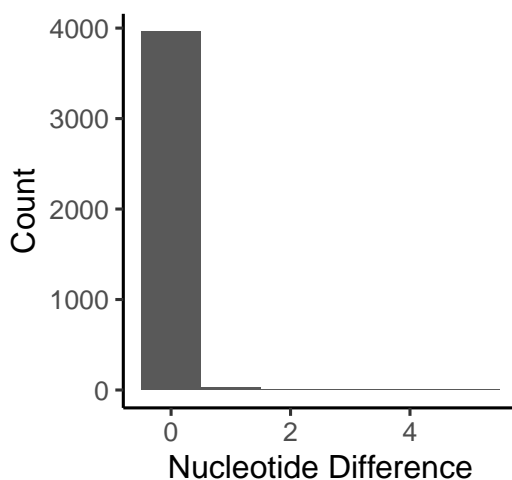
### TRBV17\*ap01

18 sequences assigned  
18 (100%) exact matches, in which:  
18 unique CDR3  
8 unique J



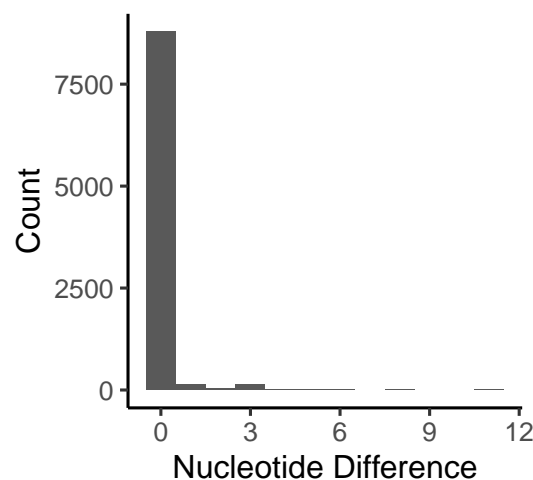
### TRBV2\*ap01

3993 sequences assigned  
3960 (99.2%) exact matches, in which:  
3937 unique CDR3  
14 unique J



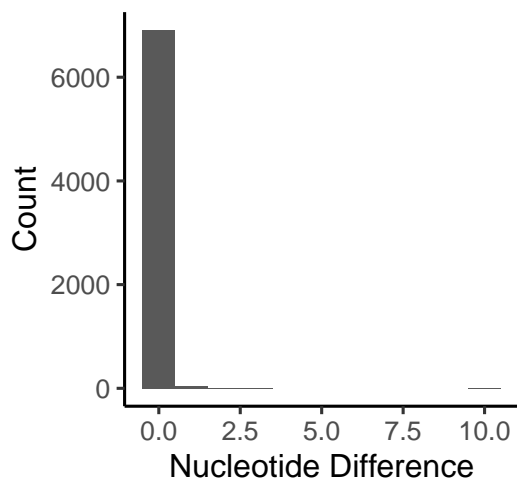
### TRBV30\*ap01

9119 sequences assigned  
8786 (96.3%) exact matches, in which:  
8593 unique CDR3  
14 unique J



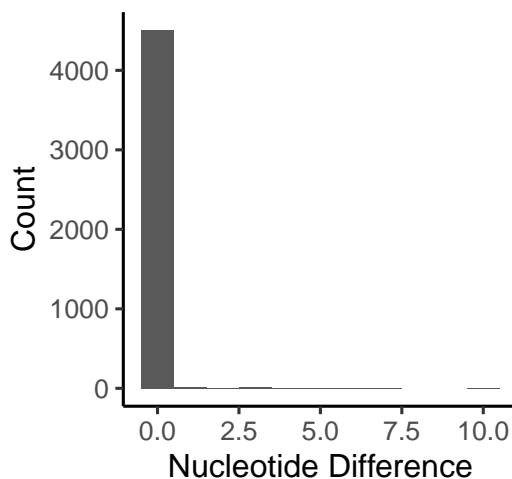
### TRBV18\*ap01

6974 sequences assigned  
6910 (99.1%) exact matches, in which:  
6809 unique CDR3  
14 unique J



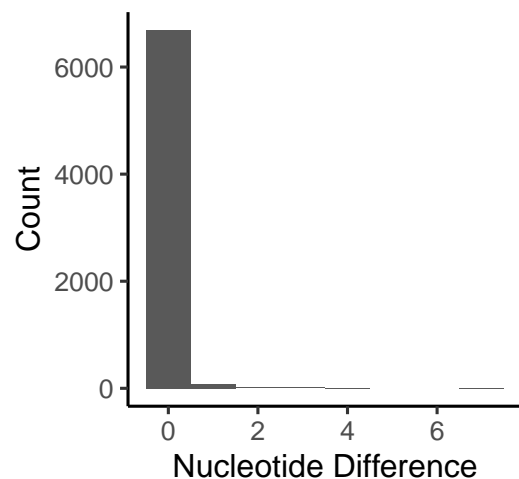
### TRBV27\*ap01

4553 sequences assigned  
4507 (99%) exact matches, in which:  
4483 unique CDR3  
14 unique J



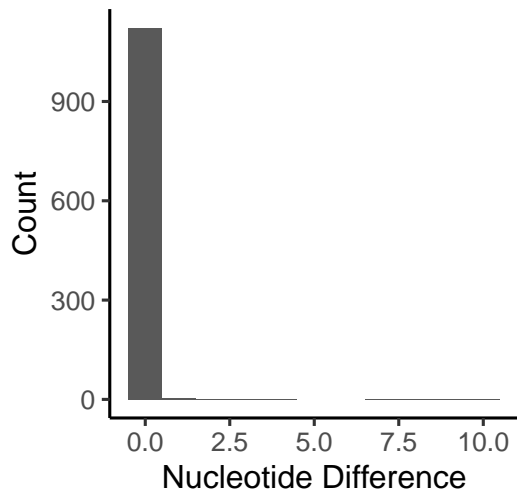
### TRBV9\*ap01

6805 sequences assigned  
6691 (98.3%) exact matches, in which:  
6638 unique CDR3  
14 unique J



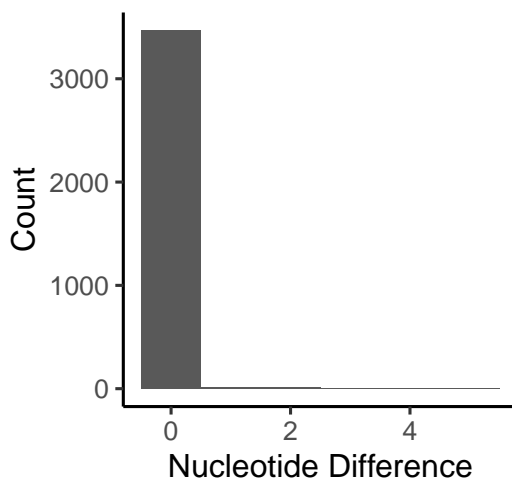
### TRBV21–1\*ap01

1136 sequences assigned  
1123 (98.9%) exact matches, in which:  
1119 unique CDR3  
14 unique J



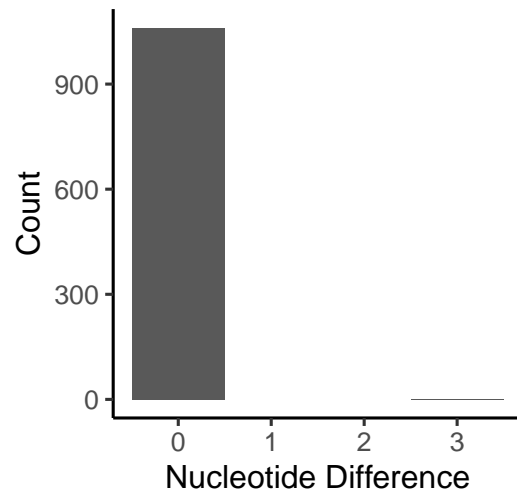
### TRBV11–3\*ap01

3509 sequences assigned  
3468 (98.8%) exact matches, in which:  
3450 unique CDR3  
14 unique J



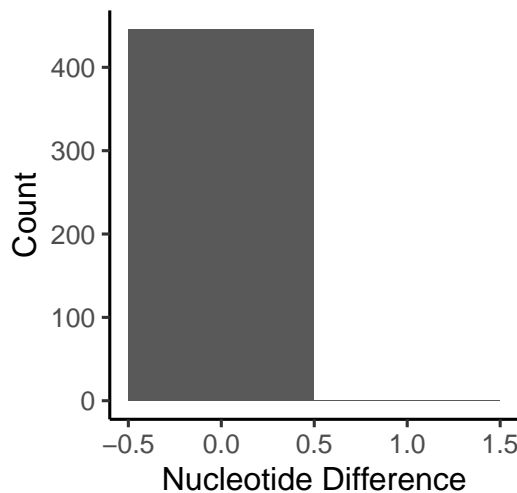
### TRBV12–5\*ap01

1063 sequences assigned  
1061 (99.8%) exact matches, in which:  
1056 unique CDR3  
14 unique J



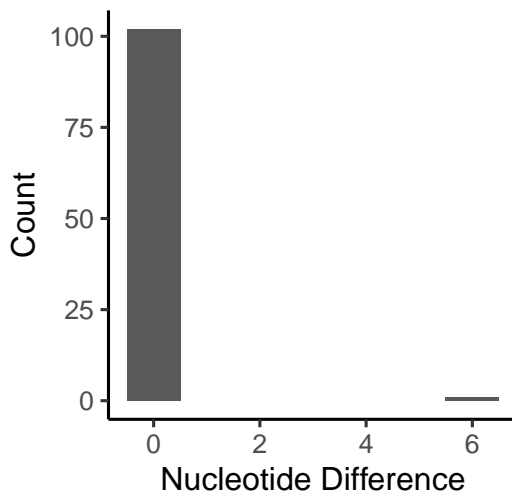
### TRBV11–1\*ap01

447 sequences assigned  
446 (99.8%) exact matches, in which:  
439 unique CDR3  
13 unique J



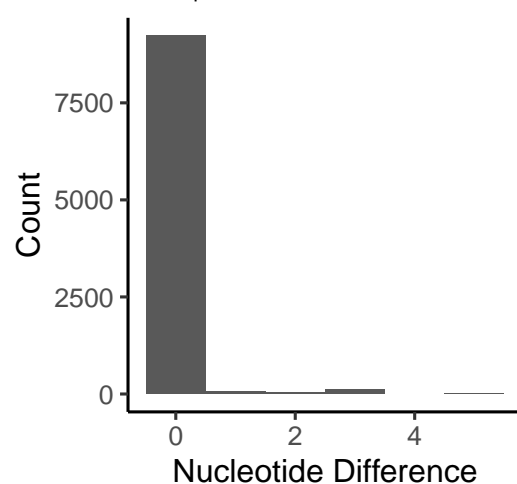
### TRBV12–1\*ap01

103 sequences assigned  
102 (99%) exact matches, in which:  
102 unique CDR3  
13 unique J



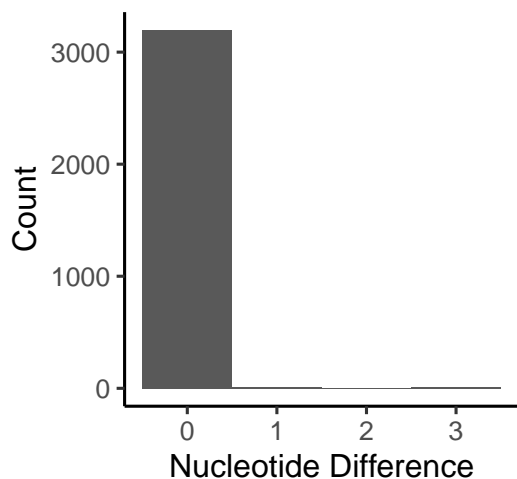
### TRBV12–34\*ap01

9435 sequences assigned  
9229 (97.8%) exact matches, in which:  
9157 unique CDR3  
14 unique J



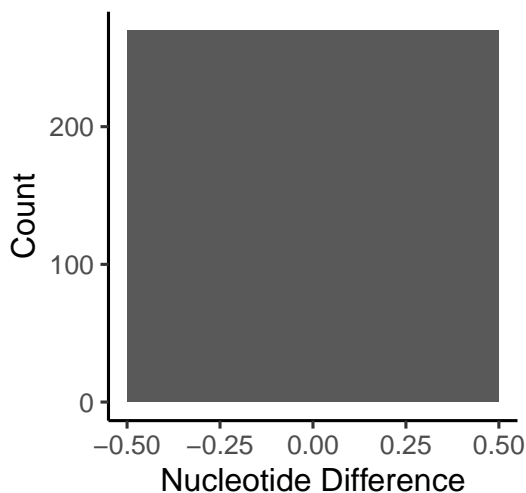
### TRBV11–2\*ap01

3223 sequences assigned  
3197 (99.2%) exact matches, in which:  
3172 unique CDR3  
14 unique J



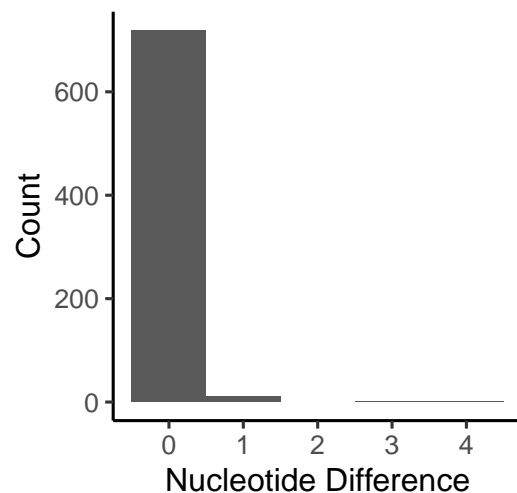
### TRBV12–2\*ap01

270 sequences assigned  
270 (100%) exact matches, in which:  
268 unique CDR3  
14 unique J



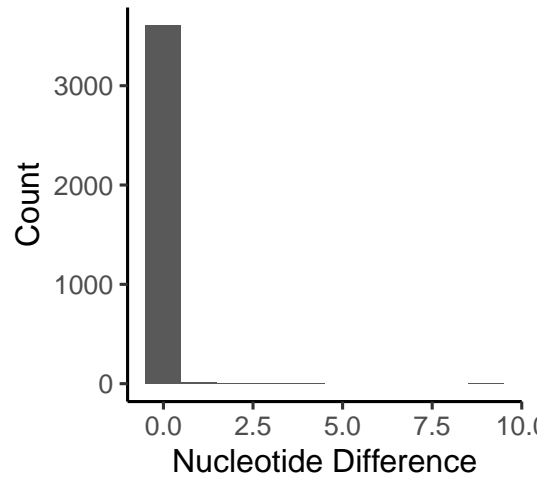
### TRBV23–1\*ap01

732 sequences assigned  
719 (98.2%) exact matches, in which:  
713 unique CDR3  
14 unique J



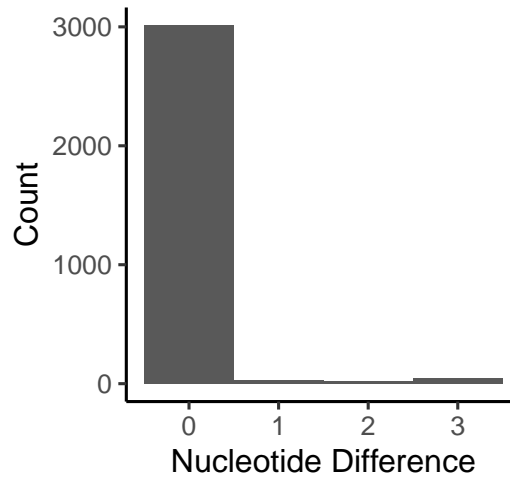
### TRBV3-12\*ap01

3626 sequences assigned  
3607 (99.5%) exact matches, in which:  
3572 unique CDR3  
14 unique J



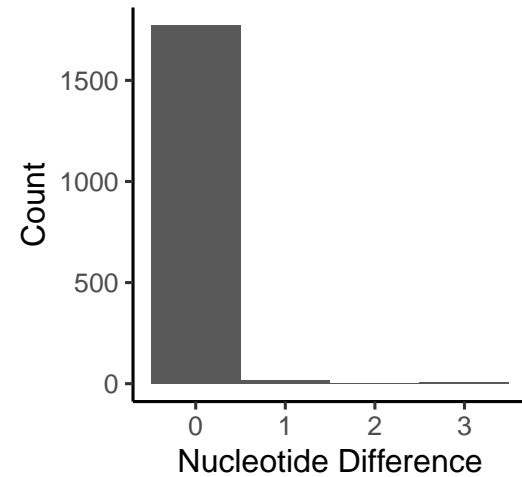
### TRBV4-2\*ap01

3112 sequences assigned  
3012 (96.8%) exact matches, in which:  
2969 unique CDR3  
14 unique J



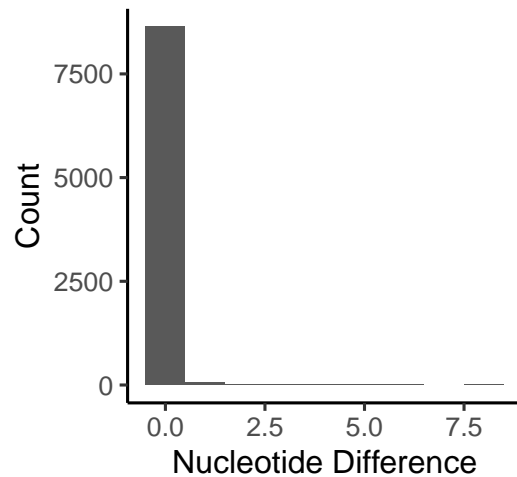
### TRBV25-1\*ap01

1799 sequences assigned  
1772 (98.5%) exact matches, in which:  
1753 unique CDR3  
14 unique J



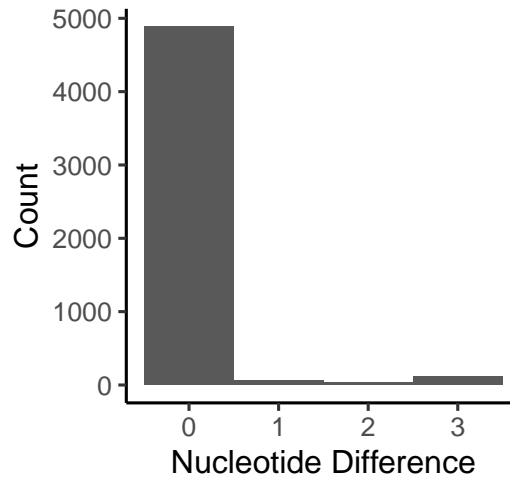
### TRBV24-1\*ap01

8728 sequences assigned  
8637 (99%) exact matches, in which:  
8546 unique CDR3  
14 unique J



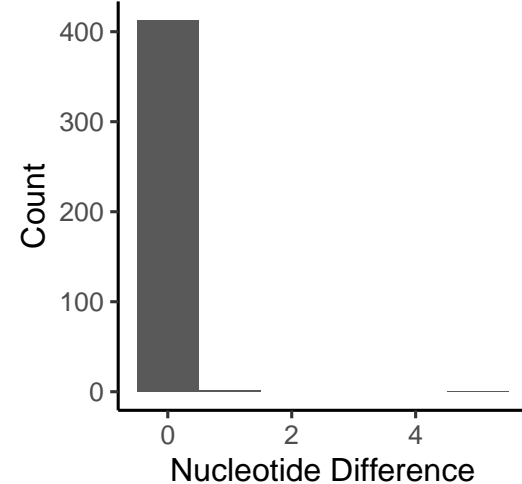
### TRBV4-3\*ap01

5100 sequences assigned  
4885 (95.8%) exact matches, in which:  
4825 unique CDR3  
14 unique J



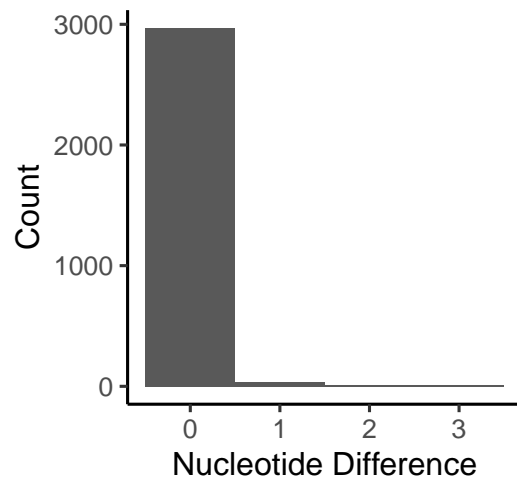
### TRBV5-3\*ap01

416 sequences assigned  
413 (99.3%) exact matches, in which:  
408 unique CDR3  
14 unique J



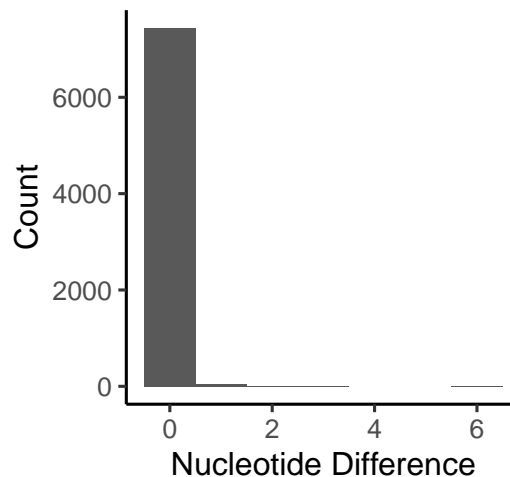
### TRBV4-1\*ap01

3030 sequences assigned  
2969 (98%) exact matches, in which:  
2930 unique CDR3  
14 unique J



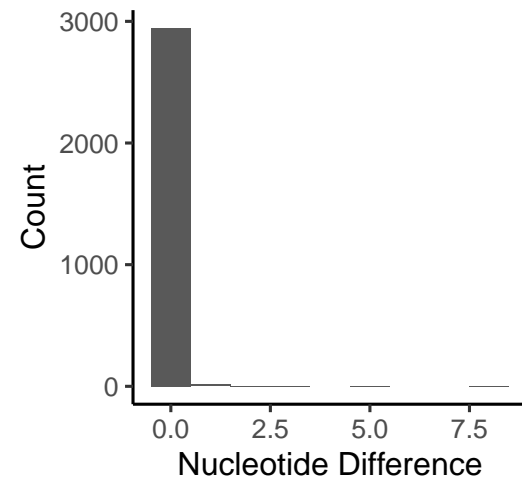
### TRBV5-1\*ap01

7499 sequences assigned  
7438 (99.2%) exact matches, in which:  
7379 unique CDR3  
14 unique J



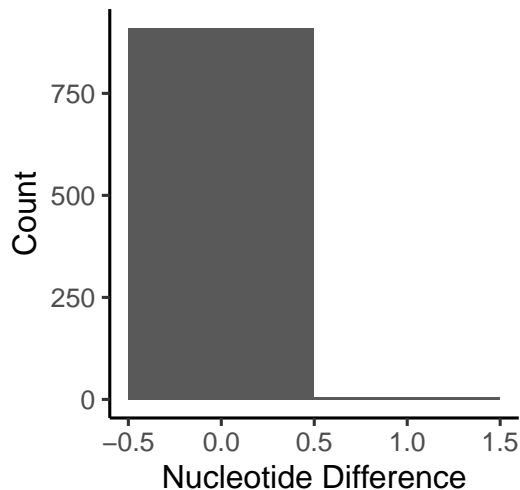
### TRBV5-4\*ap01

2966 sequences assigned  
2945 (99.3%) exact matches, in which:  
2923 unique CDR3  
14 unique J



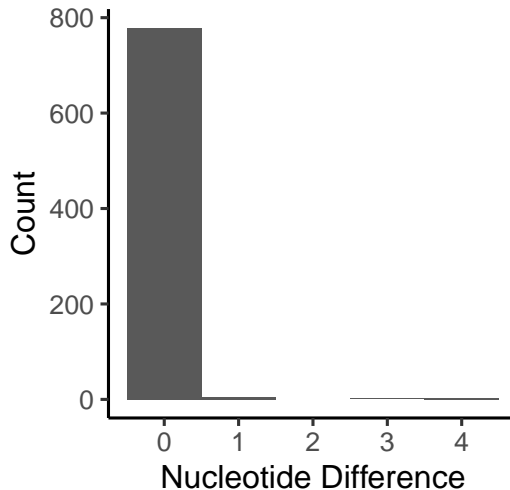
### TRBV5-5\*ap01

916 sequences assigned  
911 (99.5%) exact matches, in which:  
906 unique CDR3  
14 unique J



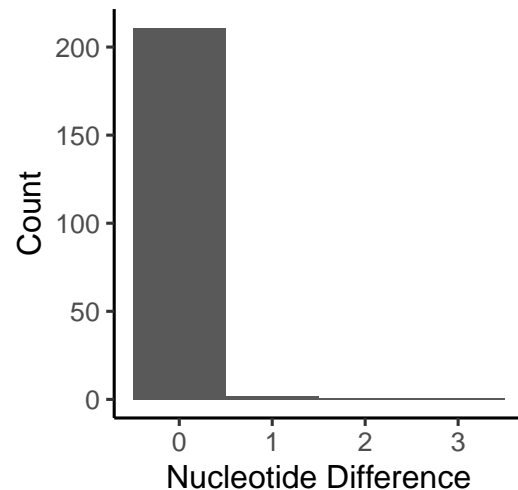
### TRBV5-8\*ap01

789 sequences assigned  
779 (98.7%) exact matches, in which:  
776 unique CDR3  
14 unique J



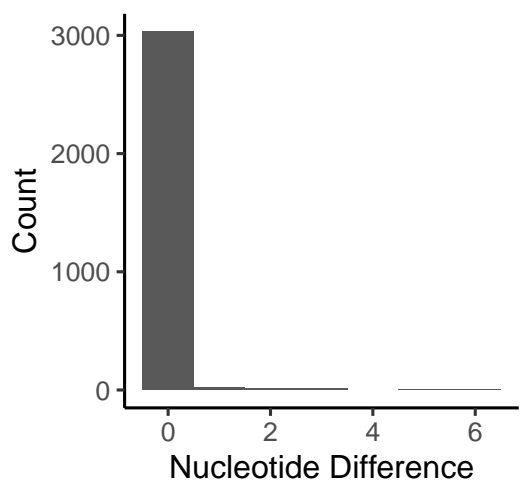
### TRBV6-7\*ap01

215 sequences assigned  
211 (98.1%) exact matches, in which:  
208 unique CDR3  
14 unique J



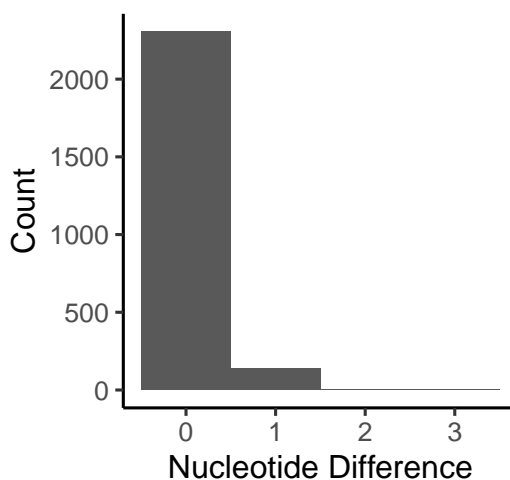
### TRBV5-6\*ap01

3075 sequences assigned  
3031 (98.6%) exact matches, in which:  
2985 unique CDR3  
14 unique J



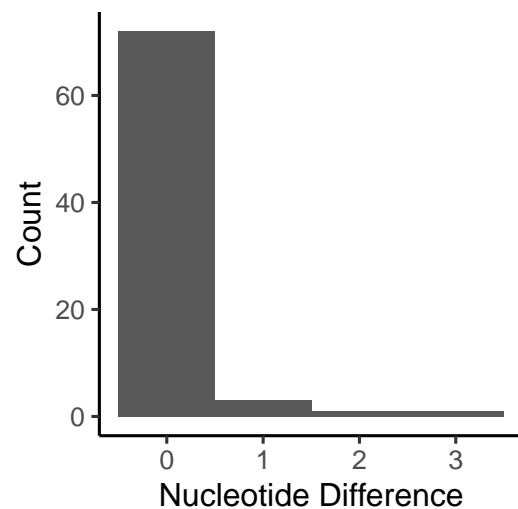
### TRBV6-1\*ap01

2450 sequences assigned  
2305 (94.1%) exact matches, in which:  
2253 unique CDR3  
14 unique J



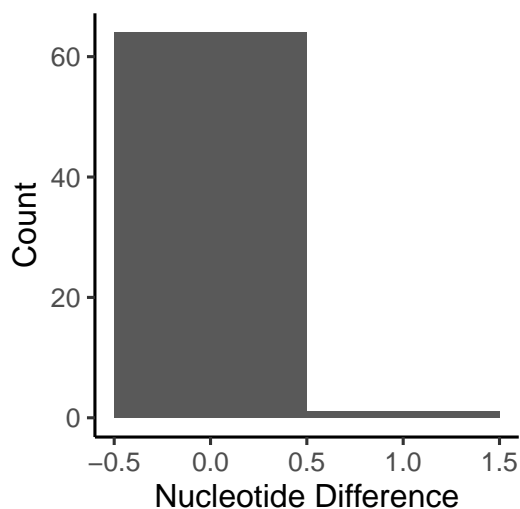
### TRBV6-8\*ap01

77 sequences assigned  
72 (93.5%) exact matches, in which:  
71 unique CDR3  
13 unique J



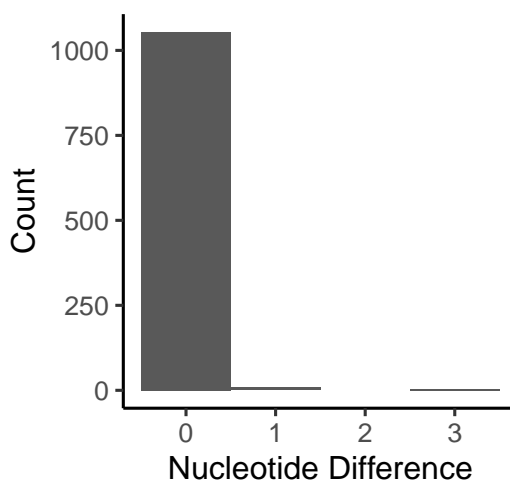
### TRBV5-7\*ap01

65 sequences assigned  
64 (98.5%) exact matches, in which:  
62 unique CDR3  
11 unique J



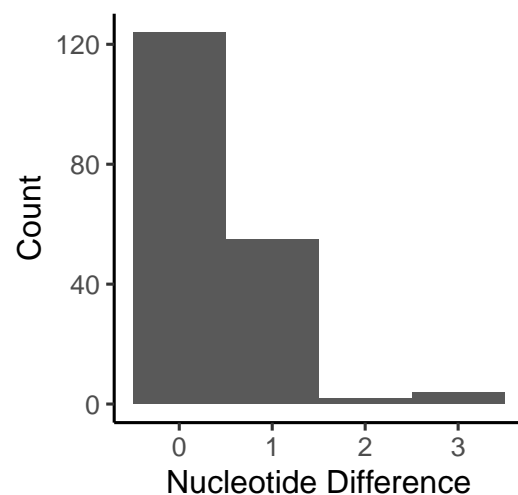
### TRBV6-4\*ap01

1065 sequences assigned  
1054 (99%) exact matches, in which:  
1048 unique CDR3  
14 unique J



### TRBV6-9\*ap01

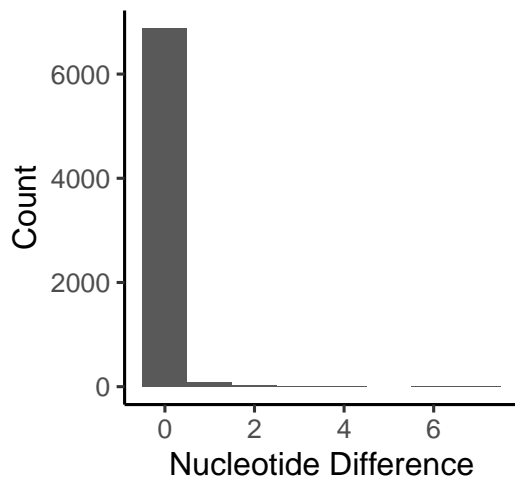
185 sequences assigned  
124 (67%) exact matches, in which:  
120 unique CDR3  
14 unique J





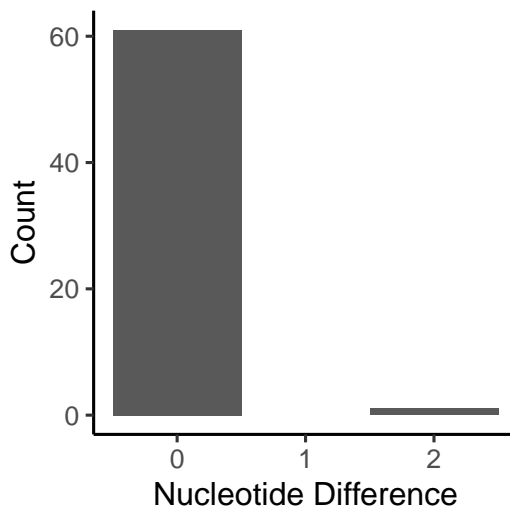
### TRBV6-23\*ap01

7020 sequences assigned  
6877 (98%) exact matches, in which:  
6777 unique CDR3  
14 unique J



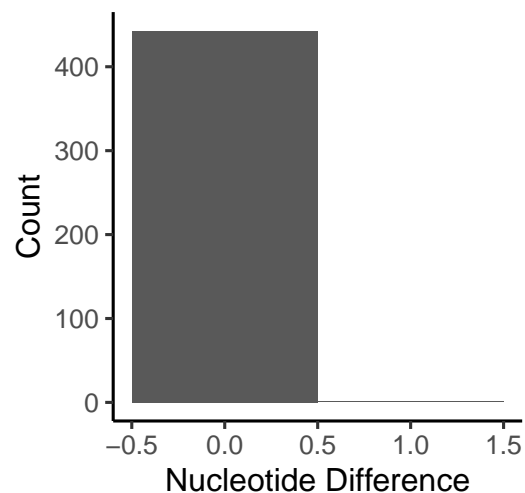
### TRBV7-1\*ap01\_G291C\_T

62 sequences assigned  
61 (98.4%) exact matches, in which:  
61 unique CDR3  
9 unique J



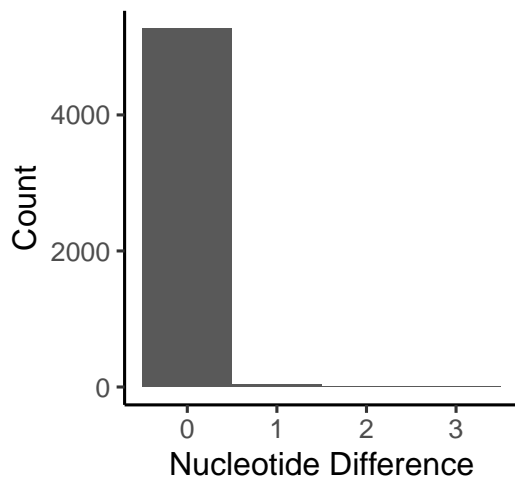
### TRBV7-3\*ap02

444 sequences assigned  
443 (99.8%) exact matches, in which:  
438 unique CDR3  
13 unique J



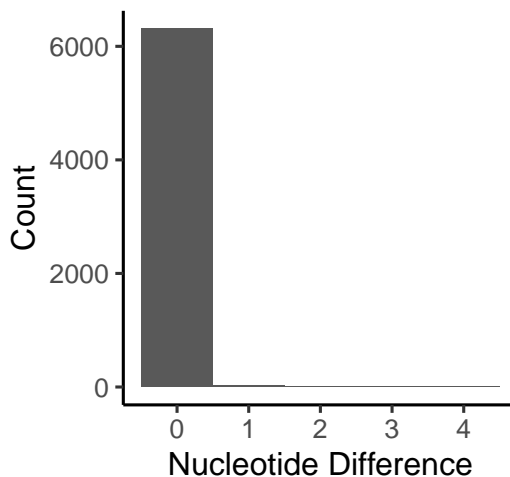
### TRBV6-56\*ap01

5317 sequences assigned  
5267 (99.1%) exact matches, in which:  
5189 unique CDR3  
14 unique J



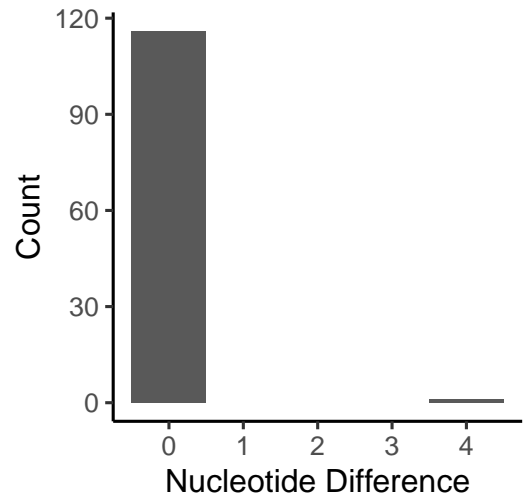
### TRBV7-2\*ap01

6356 sequences assigned  
6310 (99.3%) exact matches, in which:  
6267 unique CDR3  
14 unique J



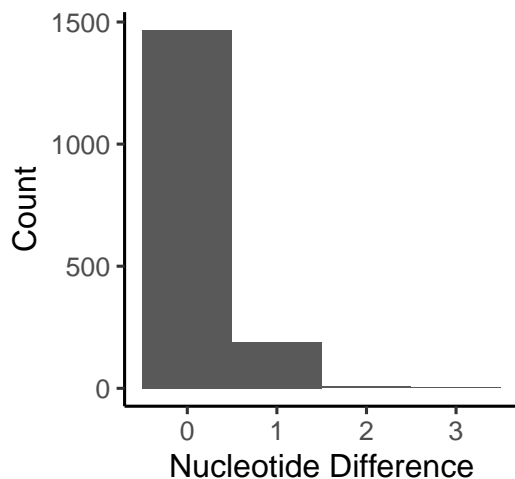
### TRBV7-4\*ap01

117 sequences assigned  
116 (99.1%) exact matches, in which:  
116 unique CDR3  
13 unique J



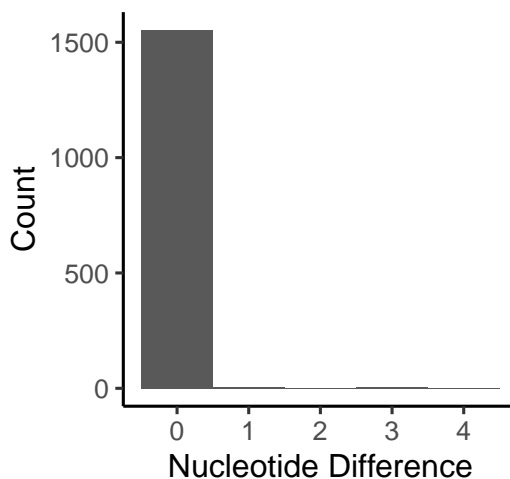
### TRBV6-56\*ap02

1667 sequences assigned  
1467 (88%) exact matches, in which:  
1437 unique CDR3  
14 unique J



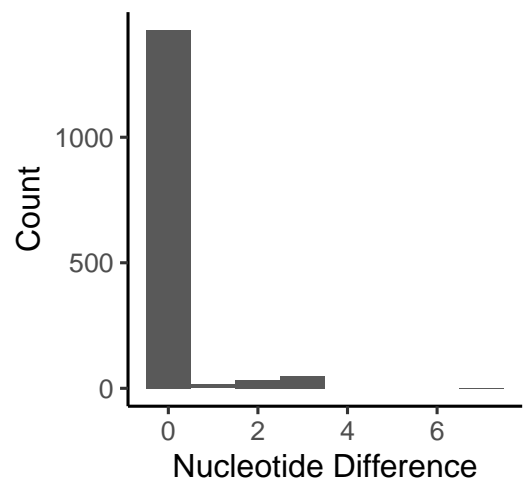
### TRBV7-3\*ap01

1568 sequences assigned  
1553 (99%) exact matches, in which:  
1539 unique CDR3  
13 unique J



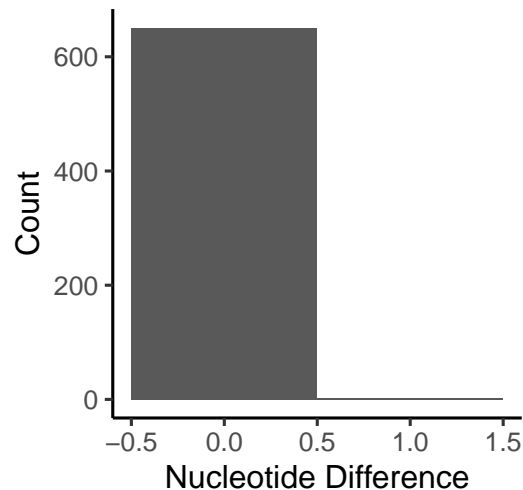
### TRBV7-6\*ap01

1525 sequences assigned  
1427 (93.6%) exact matches, in which:  
1413 unique CDR3  
14 unique J



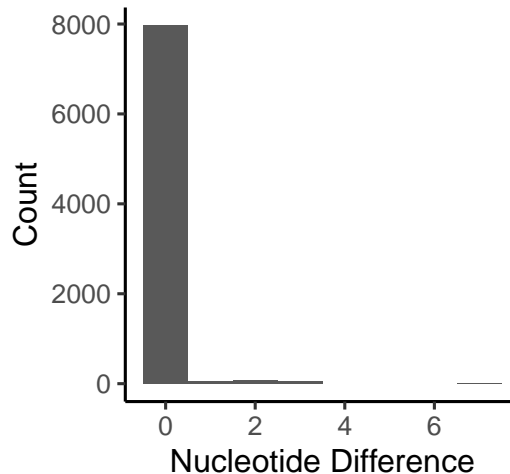
### TRBV7-7\*ap01\_C315T

653 sequences assigned  
651 (99.7%) exact matches, in which:  
647 unique CDR3  
14 unique J



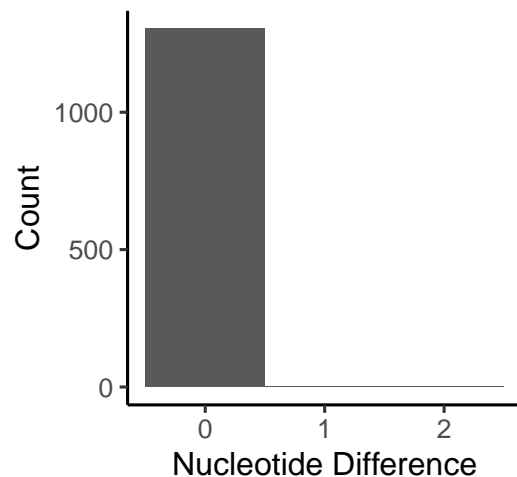
### TRBV7-9\*ap01

8147 sequences assigned  
7969 (97.8%) exact matches, in which:  
7907 unique CDR3  
14 unique J



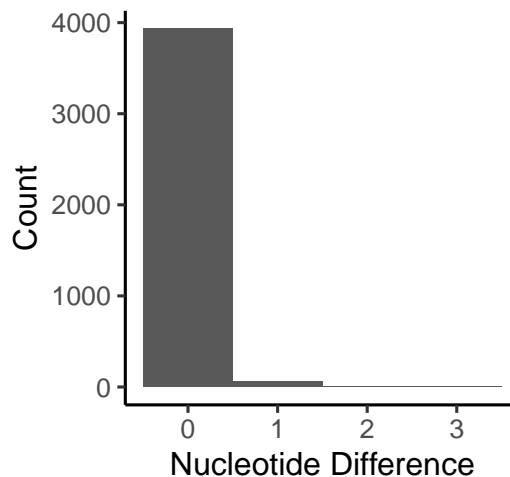
### TRBV7-8\*ap01

1308 sequences assigned  
1304 (99.7%) exact matches, in which:  
1296 unique CDR3  
14 unique J



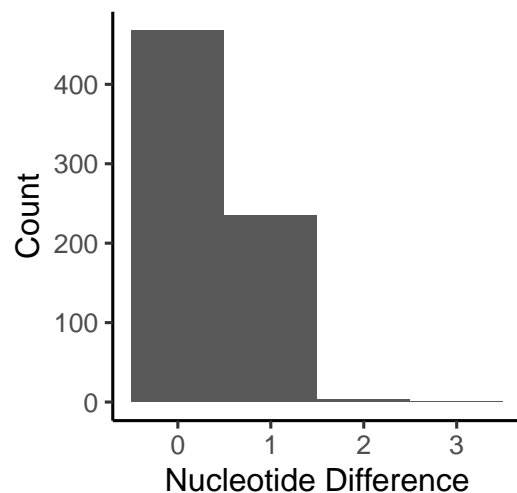
### TRBV29-1\*ap01

4002 sequences assigned  
3933 (98.3%) exact matches, in which:  
3858 unique CDR3  
14 unique J



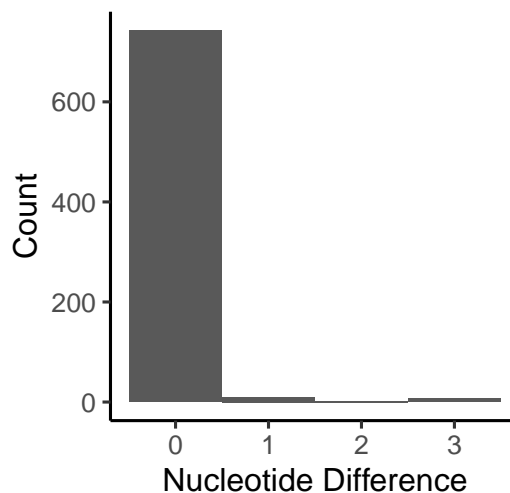
### TRBV7-8\*ap03

707 sequences assigned  
468 (66.2%) exact matches, in which:  
466 unique CDR3  
14 unique J

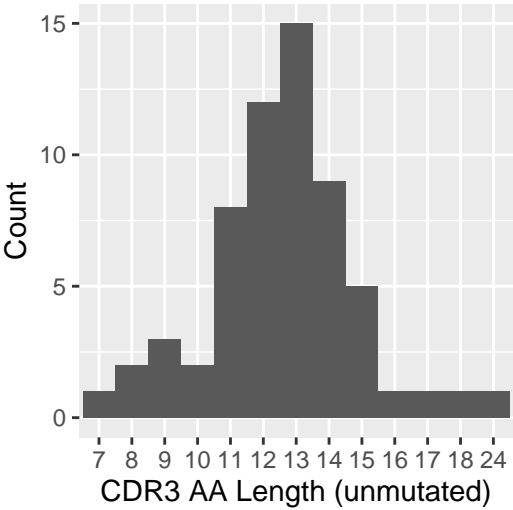


### TRBV29-1\*ap02

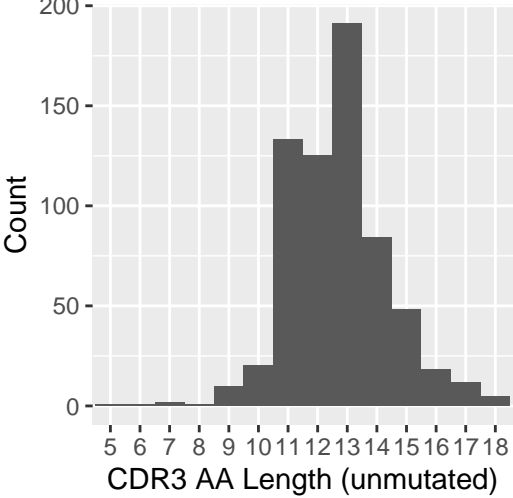
763 sequences assigned  
743 (97.4%) exact matches, in which:  
732 unique CDR3  
14 unique J

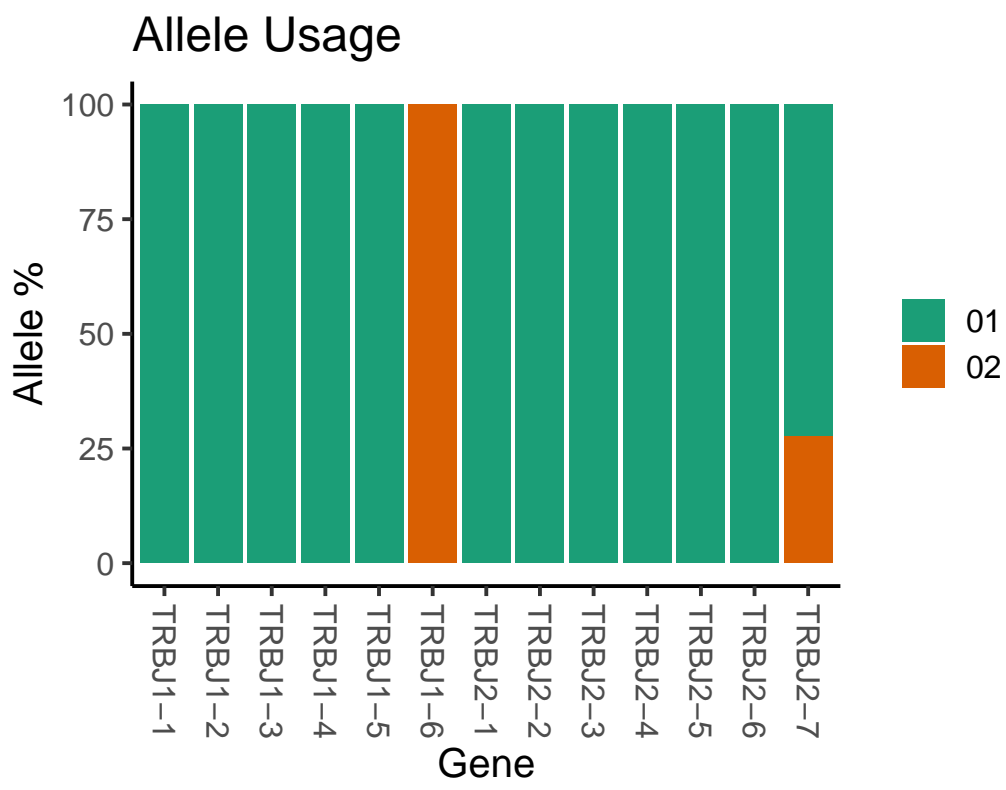


TRBV7-1\*ap01\_G291C\_T296C

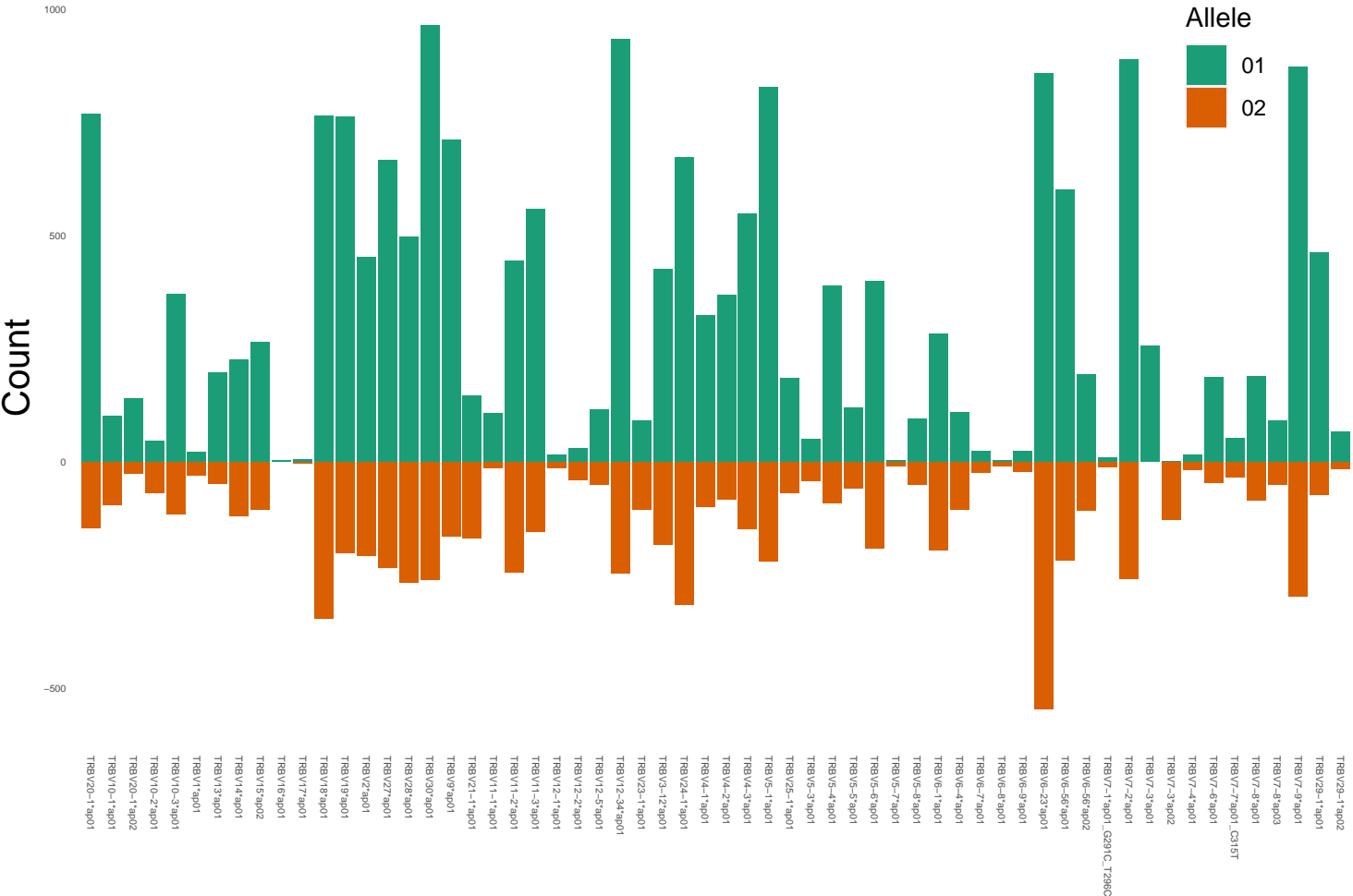


TRBV7-7\*ap01\_C315T





Sequence Count by TRBJ2-7 allele usage



[illegible]