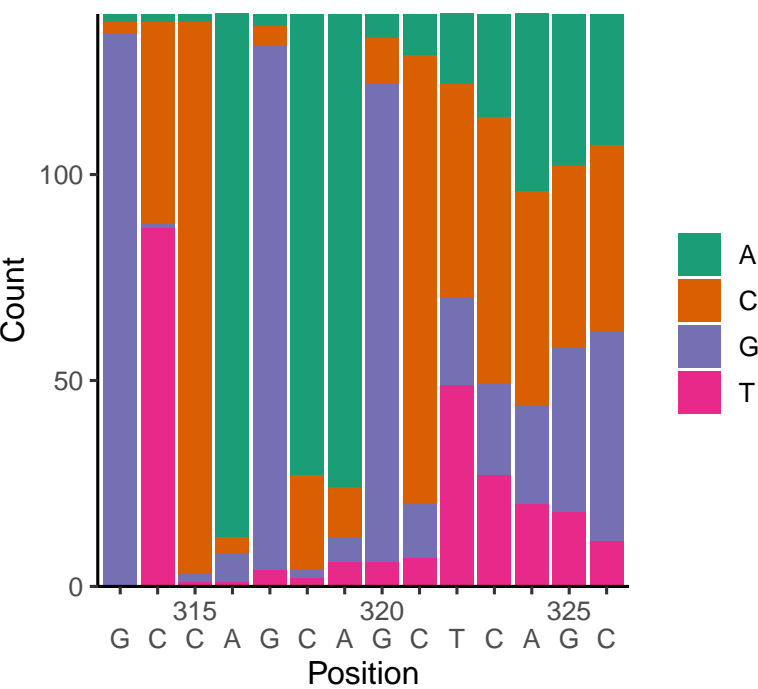
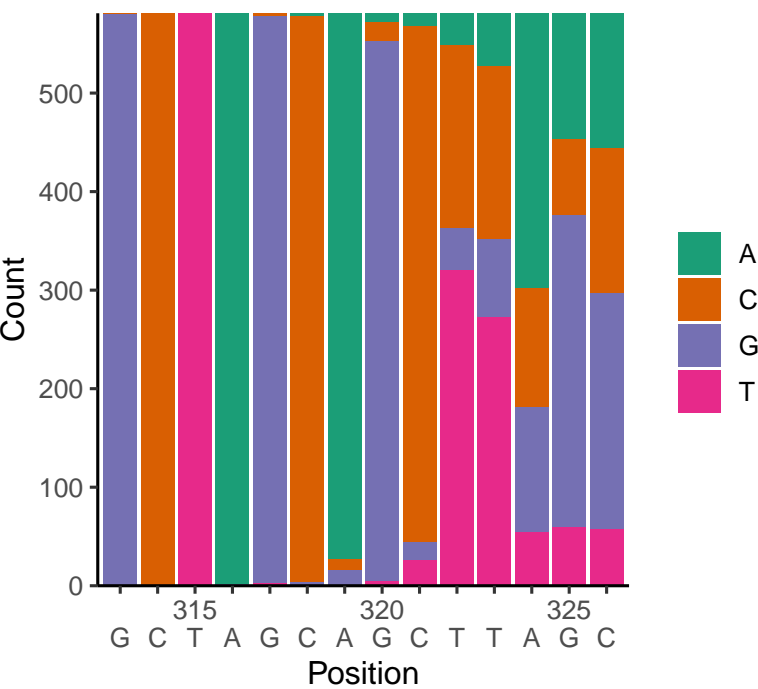


Gene TRBV7-1\*ap01\_T296C



Gene TRBV7-7\*ap01\_C315T



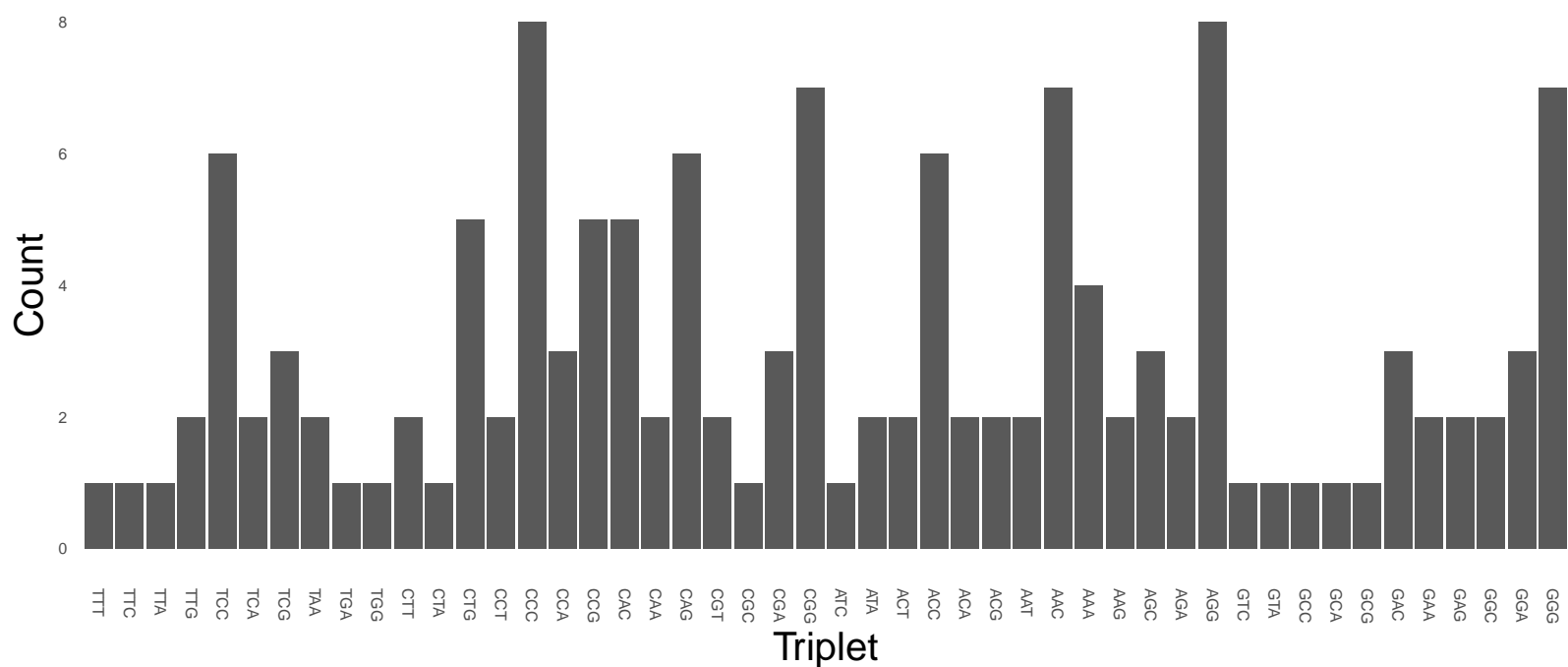
Gene TRBV7-1\*ap01\_T296C



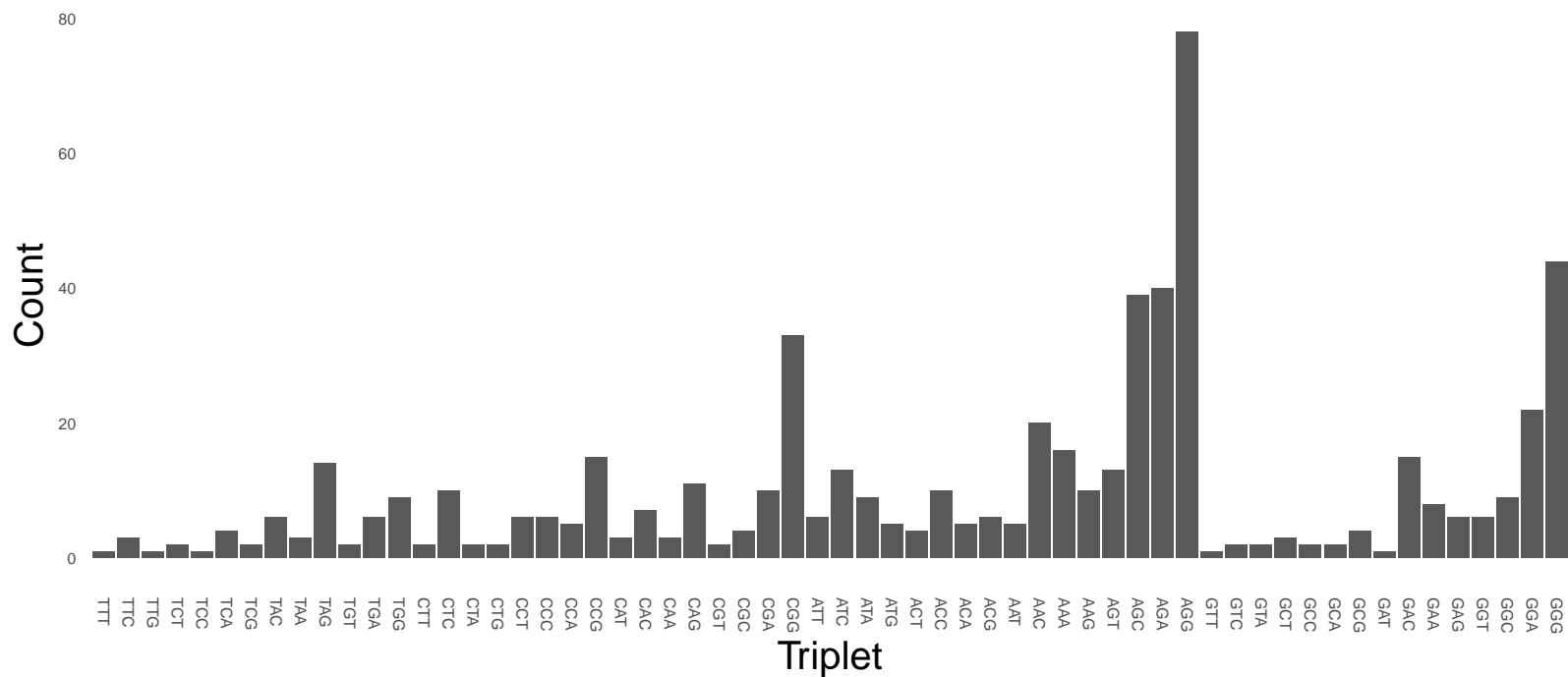
Gene TRBV7-7\*ap01\_C315T



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

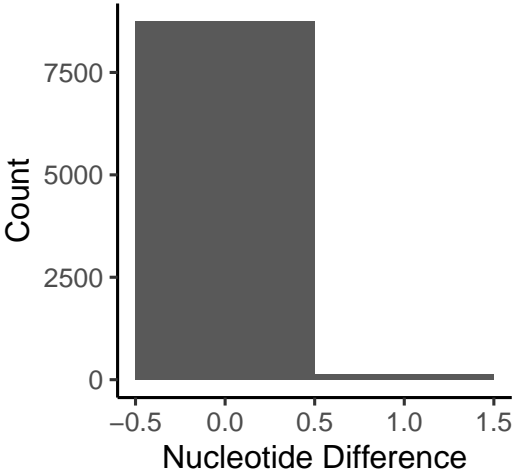


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



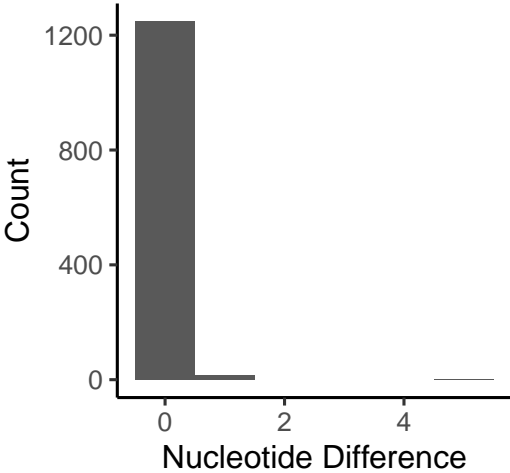
TRBV20-1\*ap01

8872 sequences assigned  
8746 (98.6%) exact matches, in which:  
8611 unique CDR3  
13 unique J



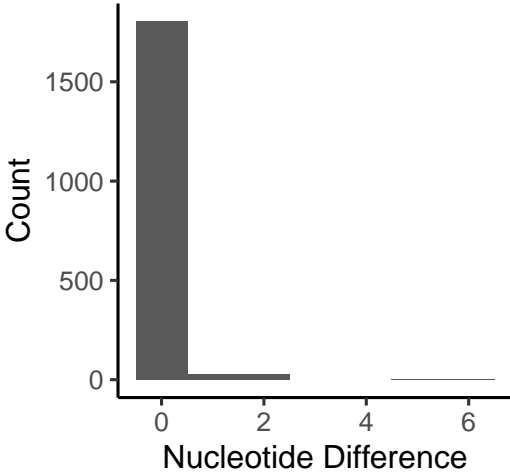
TRBV10-2\*ap01

1263 sequences assigned  
1248 (98.8%) exact matches, in which:  
1228 unique CDR3  
13 unique J



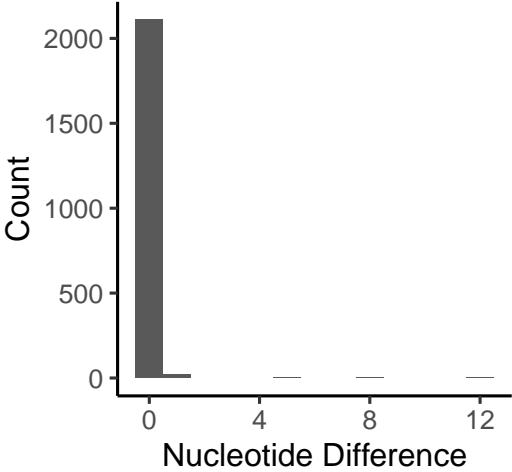
TRBV13\*ap01

1861 sequences assigned  
1804 (96.9%) exact matches, in which:  
1771 unique CDR3  
13 unique J



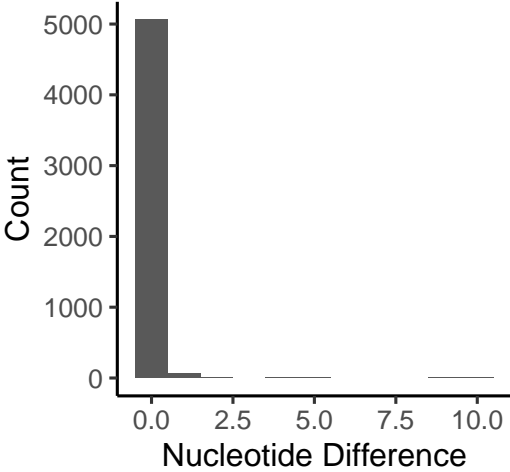
TRBV10-1\*ap01

2134 sequences assigned  
2110 (98.9%) exact matches, in which:  
2083 unique CDR3  
13 unique J



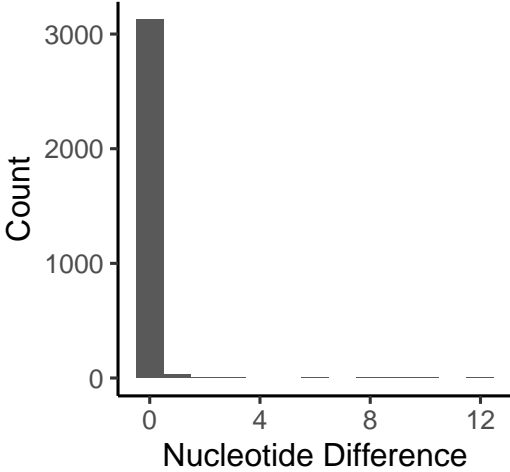
TRBV10-3\*ap01

5139 sequences assigned  
5061 (98.5%) exact matches, in which:  
4992 unique CDR3  
13 unique J



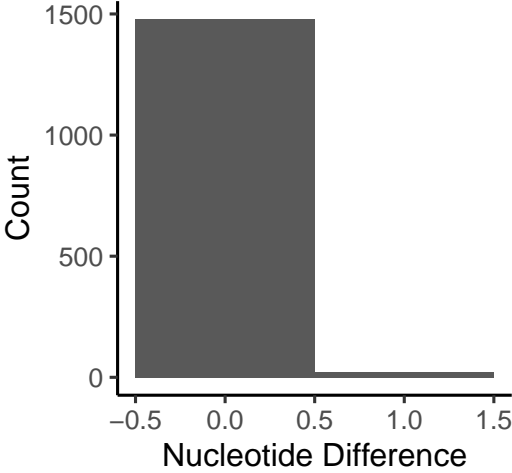
TRBV14\*ap01

3168 sequences assigned  
3125 (98.6%) exact matches, in which:  
3095 unique CDR3  
13 unique J



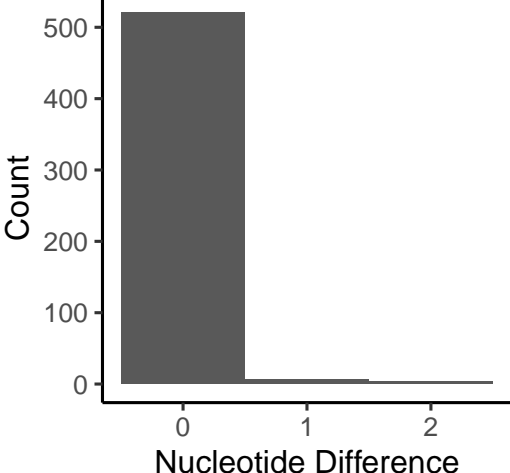
TRBV20-1\*ap02

1502 sequences assigned  
1479 (98.5%) exact matches, in which:  
1468 unique CDR3  
13 unique J



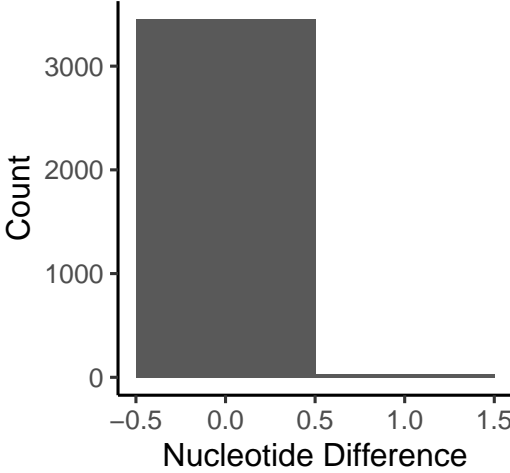
TRBV1\*ap01

531 sequences assigned  
521 (98.1%) exact matches, in which:  
514 unique CDR3  
13 unique J



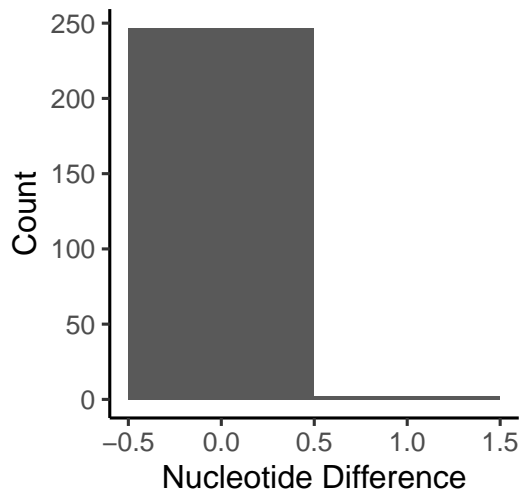
TRBV15\*ap02

3487 sequences assigned  
3454 (99.1%) exact matches, in which:  
3402 unique CDR3  
13 unique J



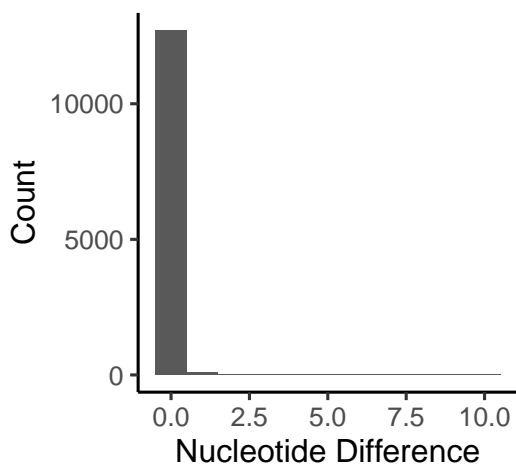
### TRBV16\*ap01

249 sequences assigned  
247 (99.2%) exact matches, in which:  
246 unique CDR3  
13 unique J



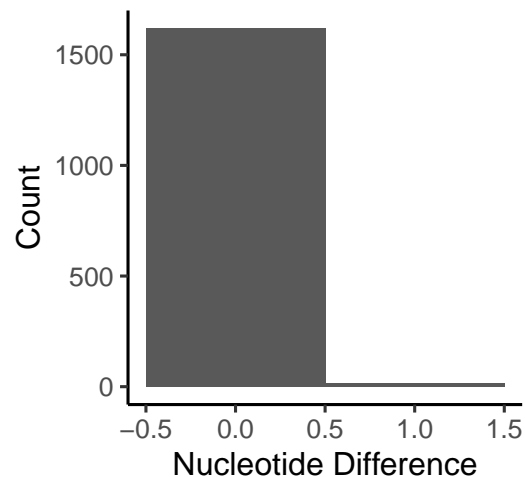
### TRBV19\*ap01

12821 sequences assigned  
12715 (99.2%) exact matches, in which:  
12628 unique CDR3  
13 unique J



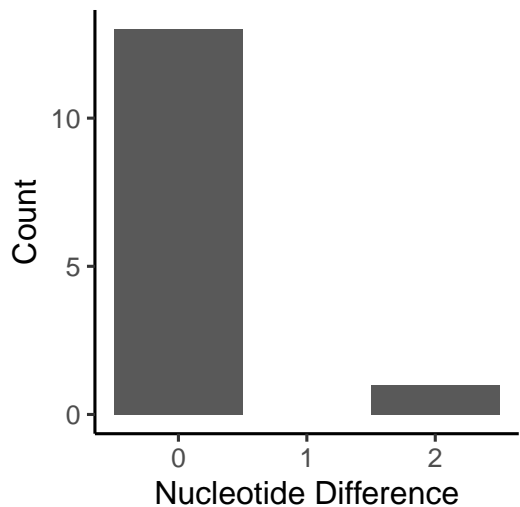
### TRBV28\*ap01

1634 sequences assigned  
1619 (99.1%) exact matches, in which:  
1605 unique CDR3  
13 unique J



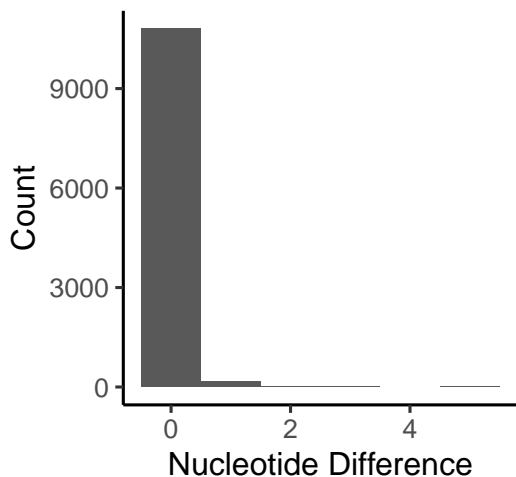
### TRBV17\*ap01

14 sequences assigned  
13 (92.9%) exact matches, in which:  
12 unique CDR3  
6 unique J



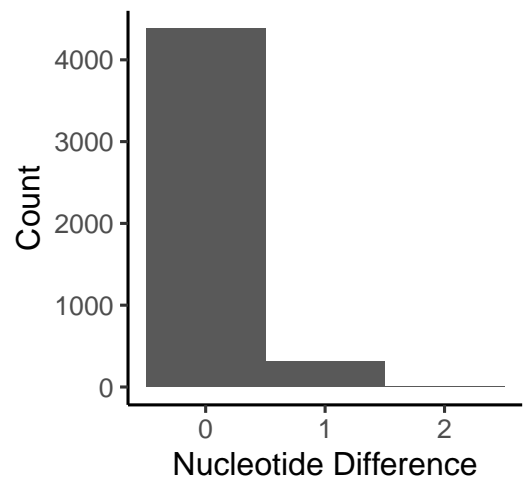
### TRBV2\*ap01

10963 sequences assigned  
10805 (98.6%) exact matches, in which:  
10638 unique CDR3  
13 unique J



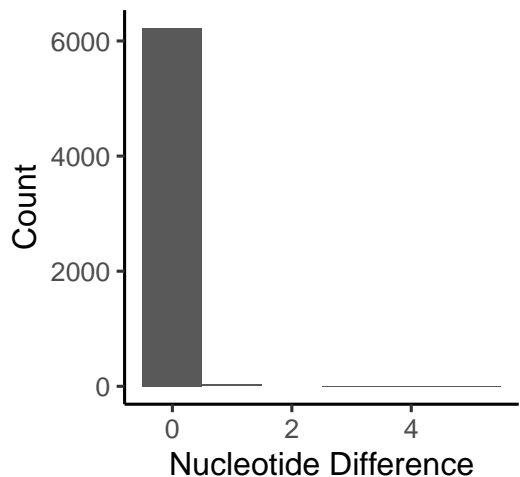
### TRBV30\*ap01

4698 sequences assigned  
4380 (93.2%) exact matches, in which:  
4300 unique CDR3  
13 unique J



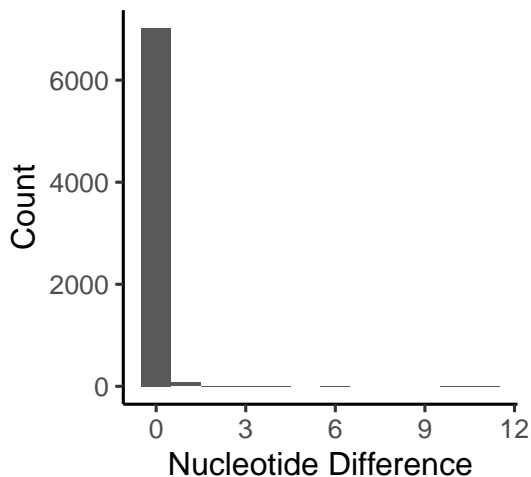
### TRBV18\*ap01

6260 sequences assigned  
6224 (99.4%) exact matches, in which:  
6169 unique CDR3  
13 unique J



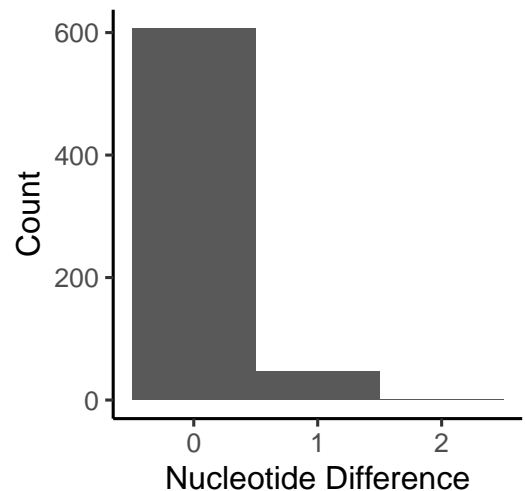
### TRBV27\*ap01

7108 sequences assigned  
7021 (98.8%) exact matches, in which:  
6939 unique CDR3  
13 unique J



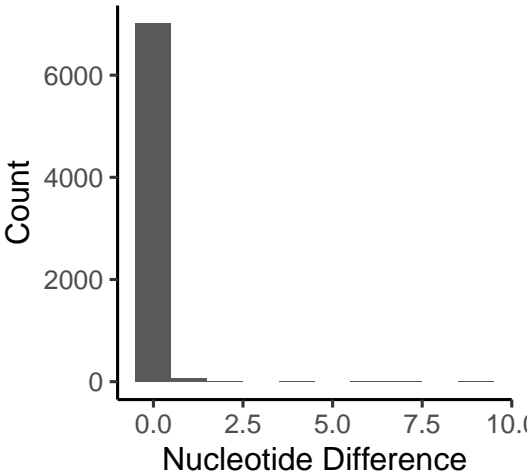
### TRBV30\*ap03

655 sequences assigned  
607 (92.7%) exact matches, in which:  
594 unique CDR3  
13 unique J



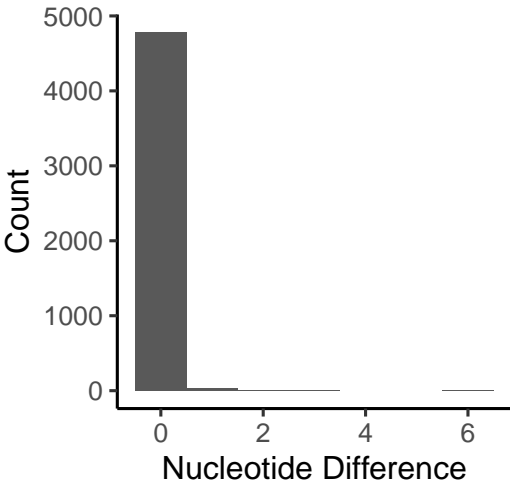
TRBV9\*ap01

7081 sequences assigned  
7013 (99%) exact matches, in which:  
6919 unique CDR3  
13 unique J



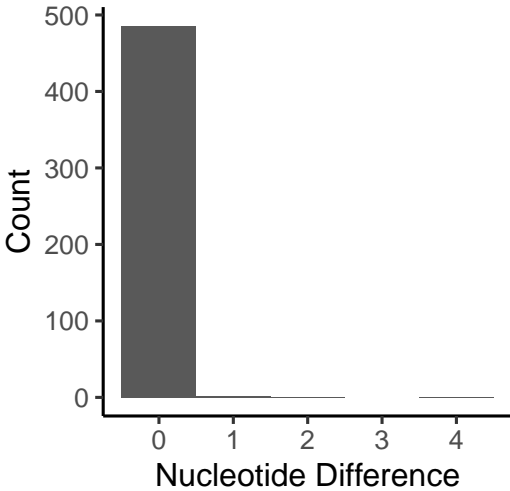
TRBV11-2\*ap01

4814 sequences assigned  
4780 (99.3%) exact matches, in which:  
4737 unique CDR3  
13 unique J



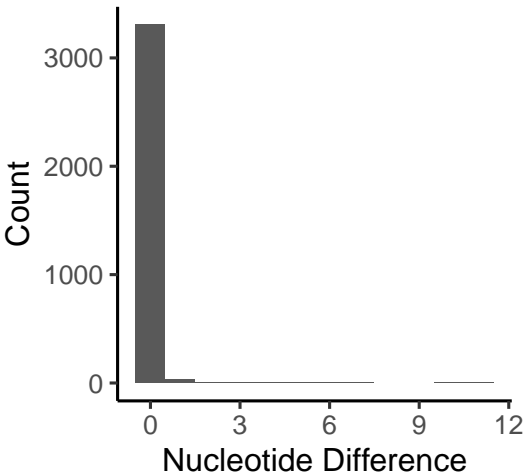
TRBV12-2\*ap01

490 sequences assigned  
486 (99.2%) exact matches, in which:  
480 unique CDR3  
13 unique J



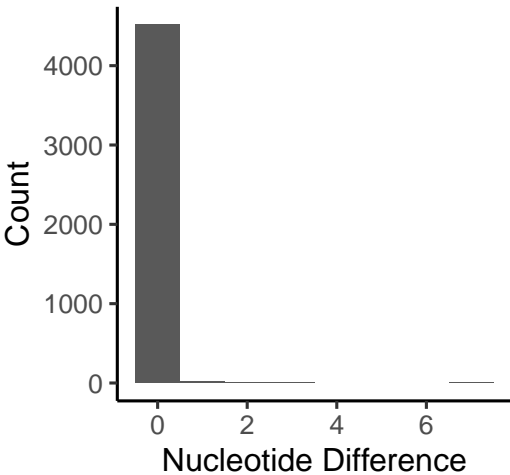
TRBV21-1\*ap01

3361 sequences assigned  
3306 (98.4%) exact matches, in which:  
3270 unique CDR3  
13 unique J



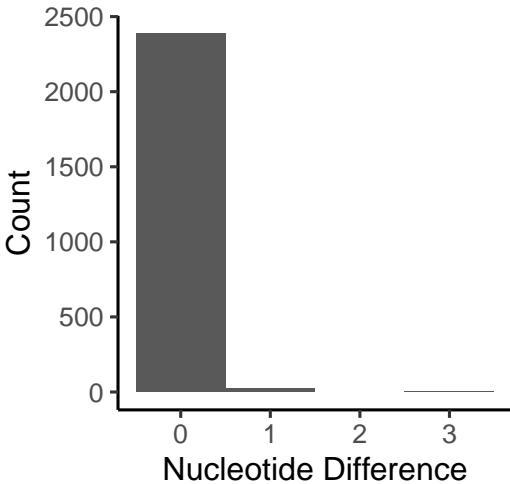
TRBV11-3\*ap01

4543 sequences assigned  
4516 (99.4%) exact matches, in which:  
4488 unique CDR3  
13 unique J



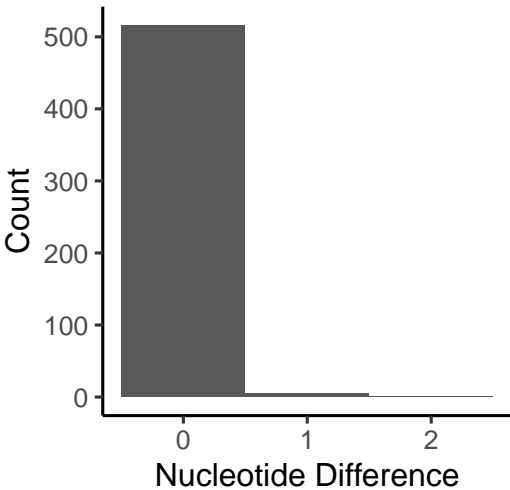
TRBV12-5\*ap01

2412 sequences assigned  
2386 (98.9%) exact matches, in which:  
2351 unique CDR3  
13 unique J



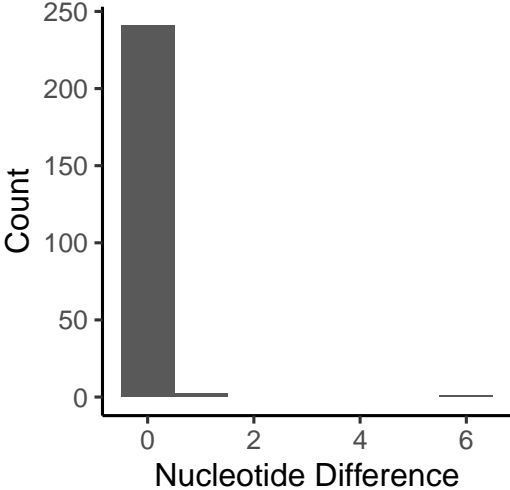
TRBV11-1\*ap01

522 sequences assigned  
516 (98.9%) exact matches, in which:  
510 unique CDR3  
13 unique J



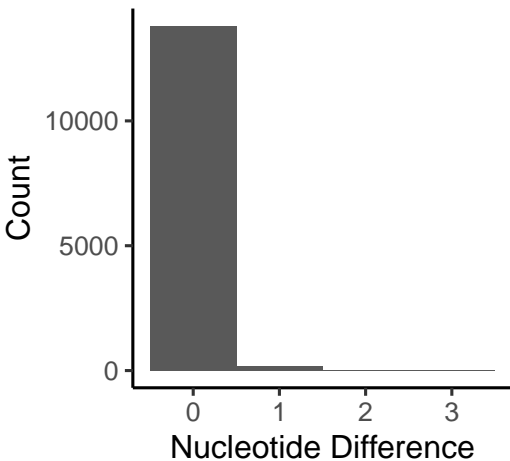
TRBV12-1\*ap01

244 sequences assigned  
241 (98.8%) exact matches, in which:  
240 unique CDR3  
13 unique J



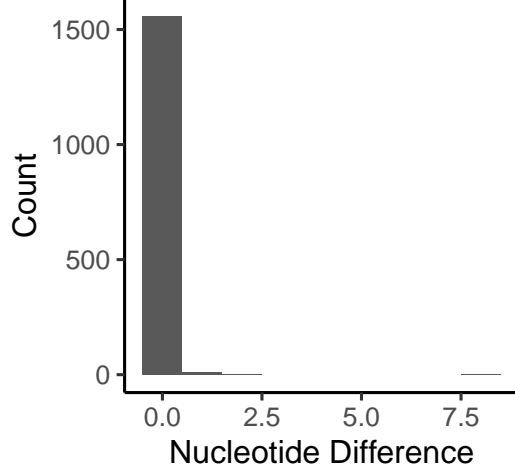
TRBV12-34\*ap01

13995 sequences assigned  
13809 (98.7%) exact matches, in which:  
13637 unique CDR3  
13 unique J



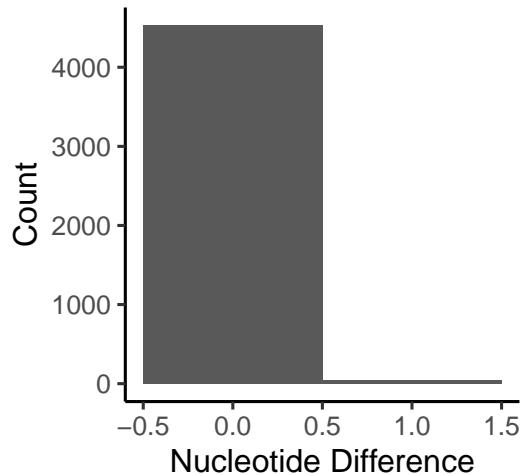
### TRBV23-1\*ap01

1568 sequences assigned  
1557 (99.3%) exact matches, in which:  
1537 unique CDR3  
13 unique J



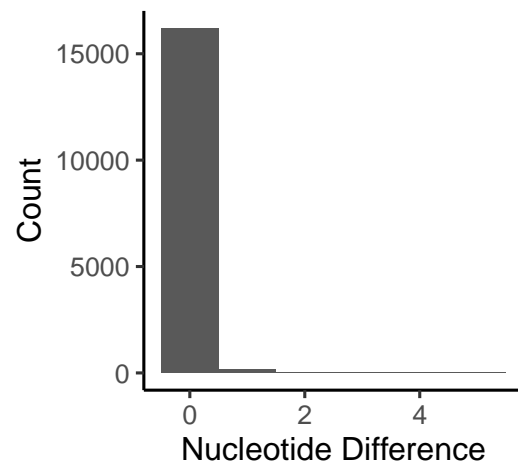
### TRBV4-1\*ap01

4571 sequences assigned  
4529 (99.1%) exact matches, in which:  
4444 unique CDR3  
13 unique J



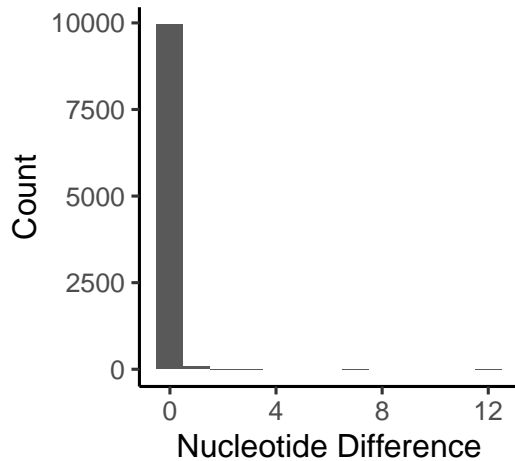
### TRBV5-1\*ap01

16363 sequences assigned  
16203 (99%) exact matches, in which:  
15906 unique CDR3  
13 unique J



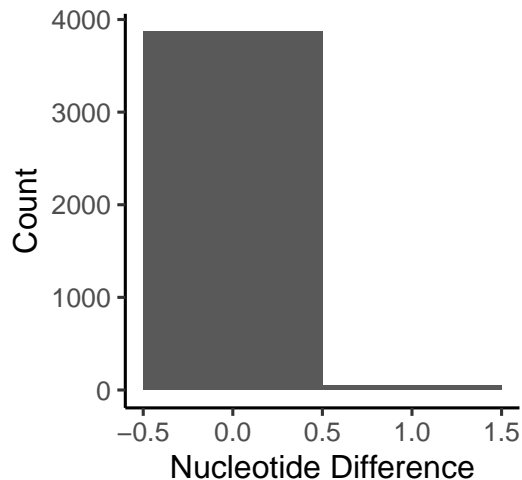
### TRBV3-12\*ap01

10044 sequences assigned  
9955 (99.1%) exact matches, in which:  
9875 unique CDR3  
13 unique J



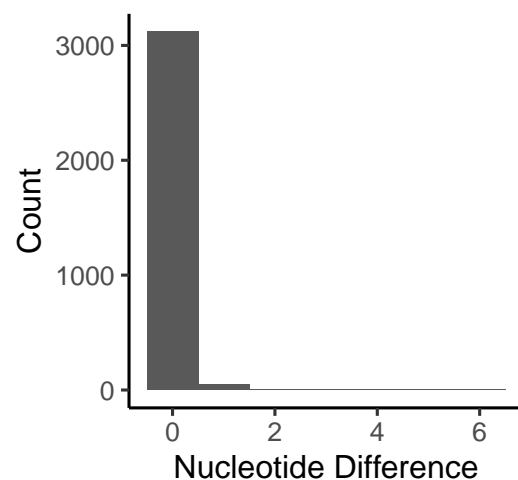
### TRBV4-2\*ap01

3917 sequences assigned  
3868 (98.7%) exact matches, in which:  
3810 unique CDR3  
13 unique J



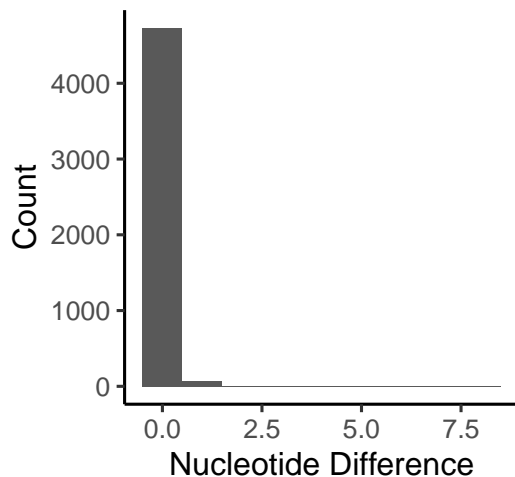
### TRBV25-1\*ap01

3172 sequences assigned  
3119 (98.3%) exact matches, in which:  
3046 unique CDR3  
13 unique J



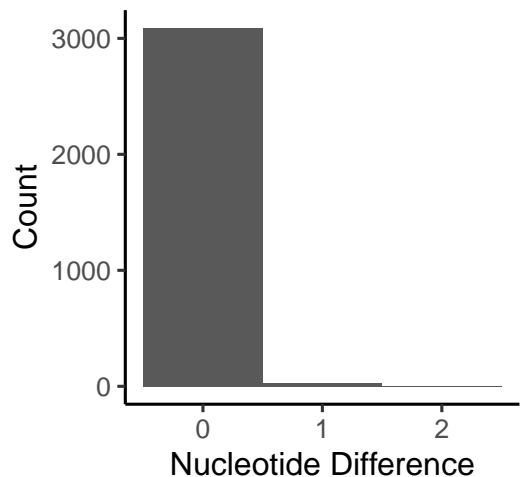
### TRBV24-1\*ap01

4826 sequences assigned  
4729 (98%) exact matches, in which:  
4651 unique CDR3  
13 unique J



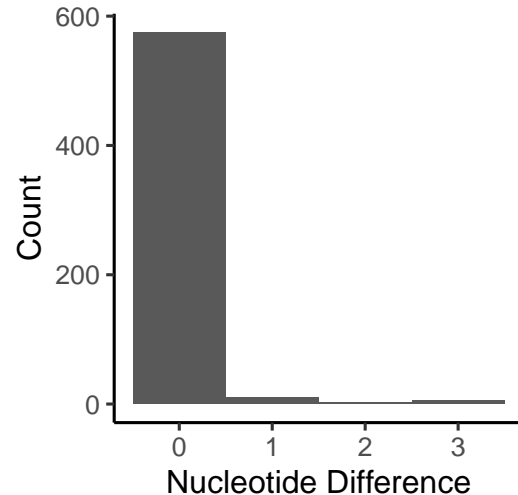
### TRBV4-3\*ap01

3119 sequences assigned  
3089 (99%) exact matches, in which:  
3029 unique CDR3  
13 unique J



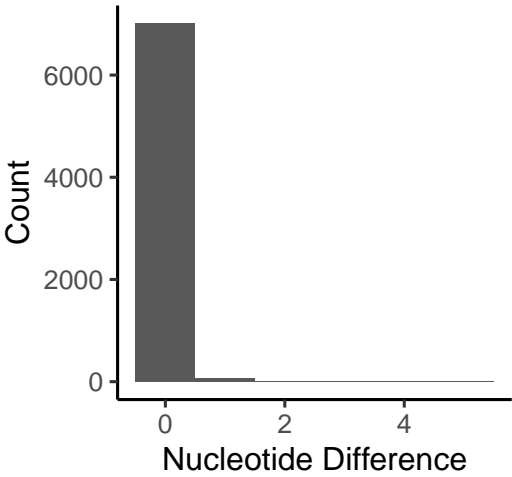
### TRBV5-3\*ap01

593 sequences assigned  
575 (97%) exact matches, in which:  
569 unique CDR3  
13 unique J



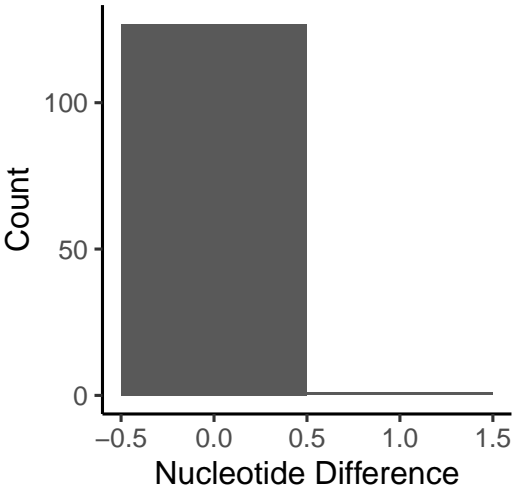
TRBV5-4\*ap01

7077 sequences assigned  
7011 (99.1%) exact matches, in which:  
6898 unique CDR3  
13 unique J



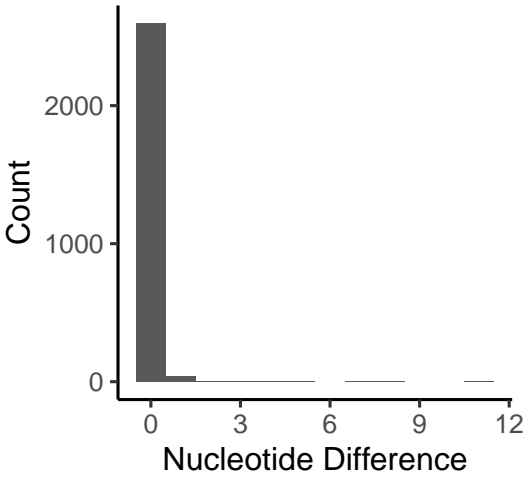
TRBV5-7\*ap01

128 sequences assigned  
127 (99.2%) exact matches, in which:  
122 unique CDR3  
13 unique J



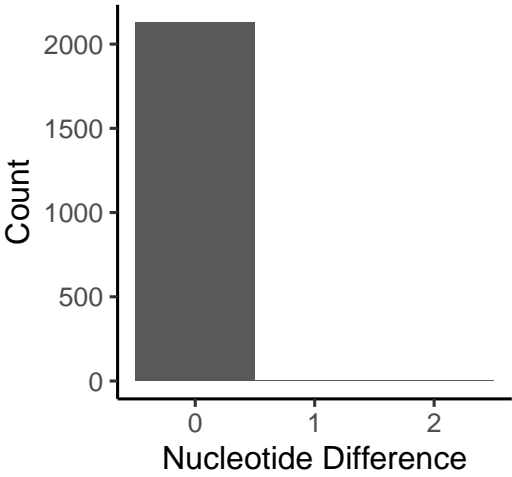
TRBV6-4\*ap01

2650 sequences assigned  
2596 (98%) exact matches, in which:  
2579 unique CDR3  
13 unique J



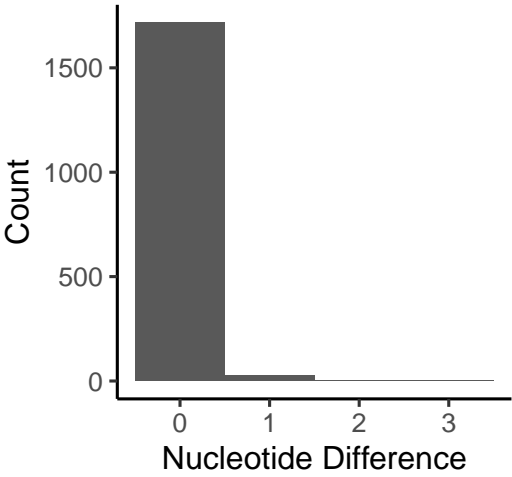
TRBV5-5\*ap01

2131 sequences assigned  
2127 (99.8%) exact matches, in which:  
2113 unique CDR3  
13 unique J



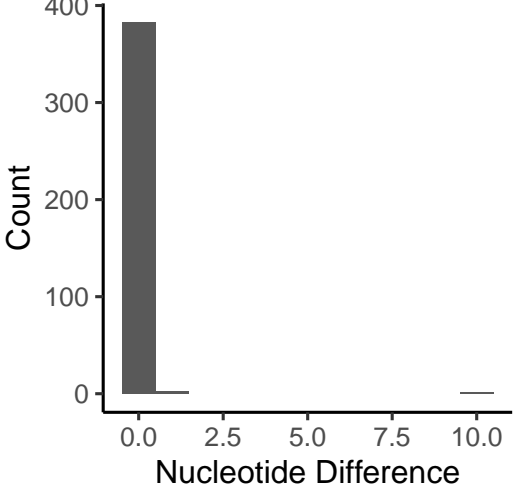
TRBV5-8\*ap01

1746 sequences assigned  
1716 (98.3%) exact matches, in which:  
1698 unique CDR3  
13 unique J



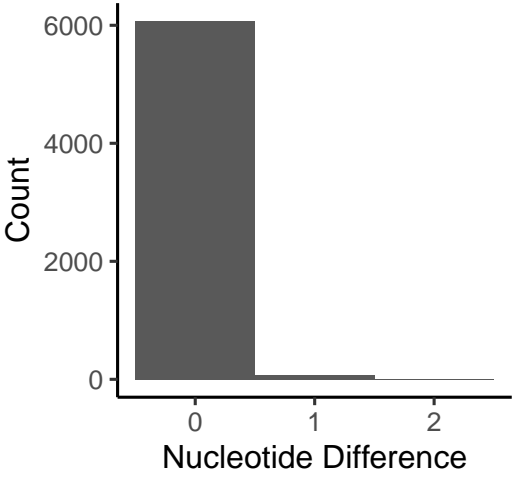
TRBV6-7\*ap01

388 sequences assigned  
383 (98.7%) exact matches, in which:  
377 unique CDR3  
13 unique J



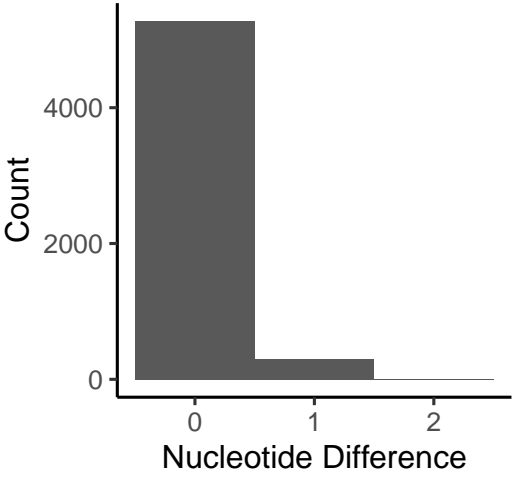
TRBV5-6\*ap01

6151 sequences assigned  
6072 (98.7%) exact matches, in which:  
5893 unique CDR3  
13 unique J



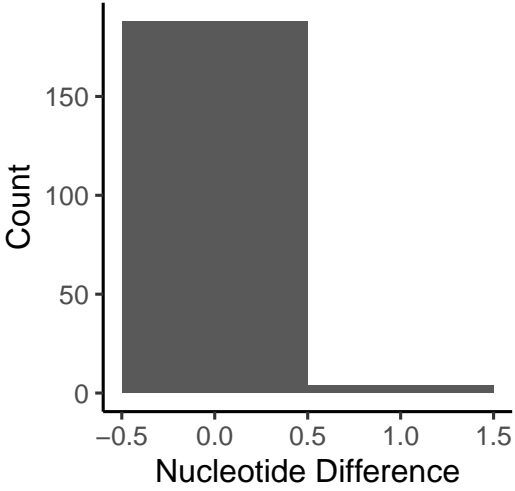
TRBV6-1\*ap01

5577 sequences assigned  
5276 (94.6%) exact matches, in which:  
5178 unique CDR3  
13 unique J



TRBV6-8\*ap01

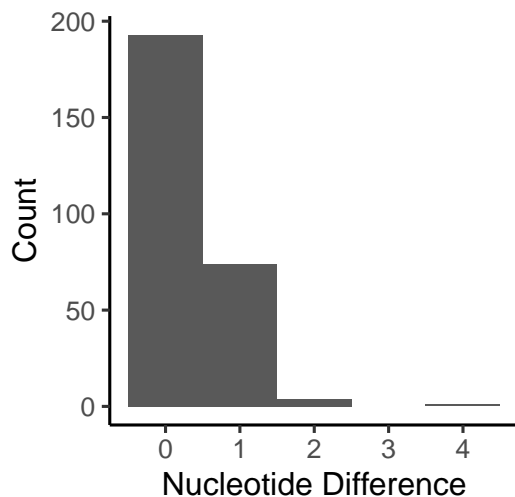
192 sequences assigned  
188 (97.9%) exact matches, in which:  
183 unique CDR3  
13 unique J





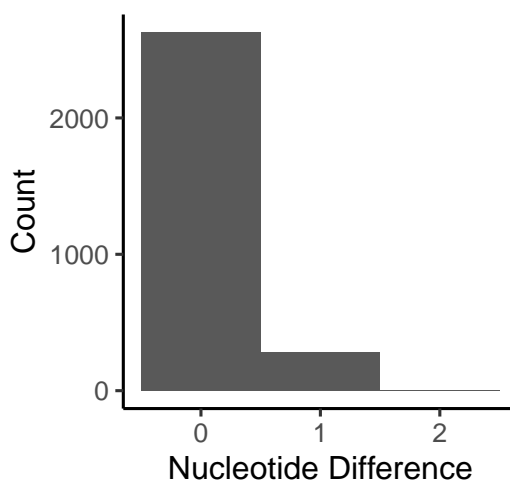
### TRBV6–9\*ap01

272 sequences assigned  
193 (71%) exact matches, in which:  
187 unique CDR3  
13 unique J



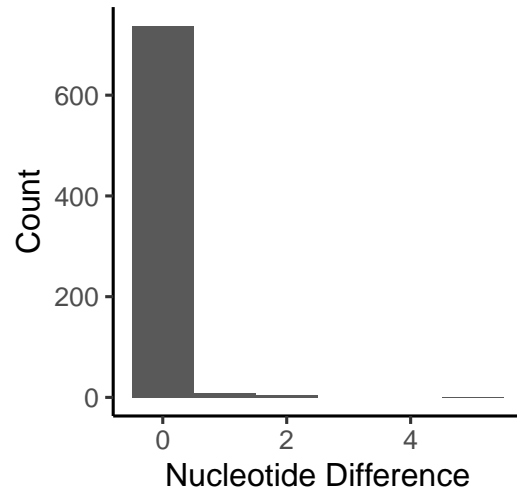
### TRBV6–56\*ap02

2911 sequences assigned  
2627 (90.2%) exact matches, in which:  
2576 unique CDR3  
13 unique J



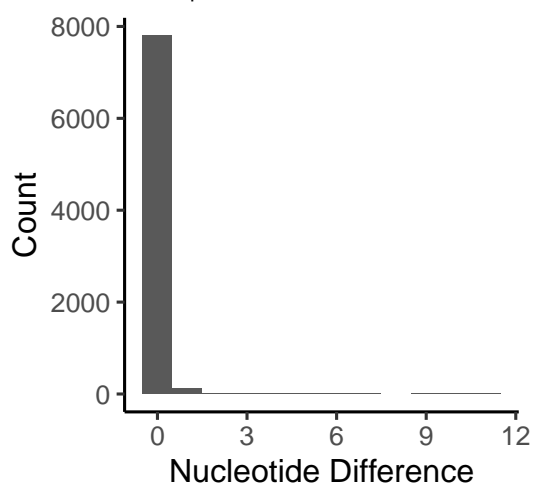
### TRBV7–3\*ap02

752 sequences assigned  
738 (98.1%) exact matches, in which:  
731 unique CDR3  
13 unique J



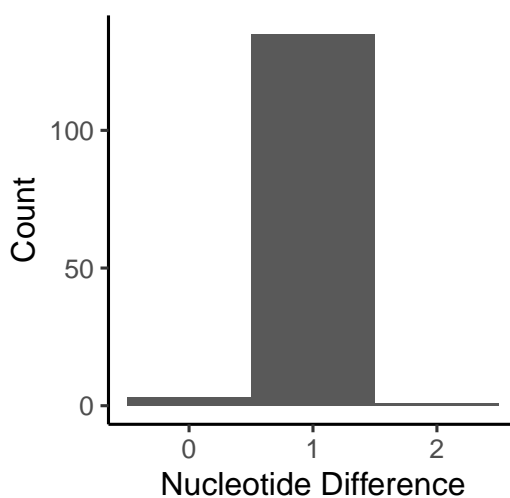
### TRBV6–23\*ap01

7932 sequences assigned  
7798 (98.3%) exact matches, in which:  
7596 unique CDR3  
13 unique J



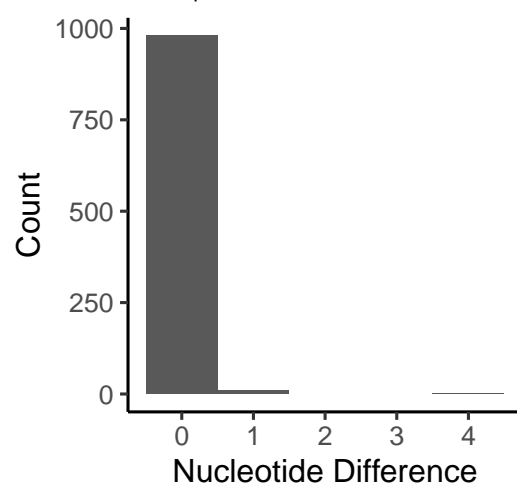
### TRBV7–1\*ap01\_T296C

139 sequences assigned  
3 (2.2%) exact matches, in which:  
3 unique CDR3  
3 unique J



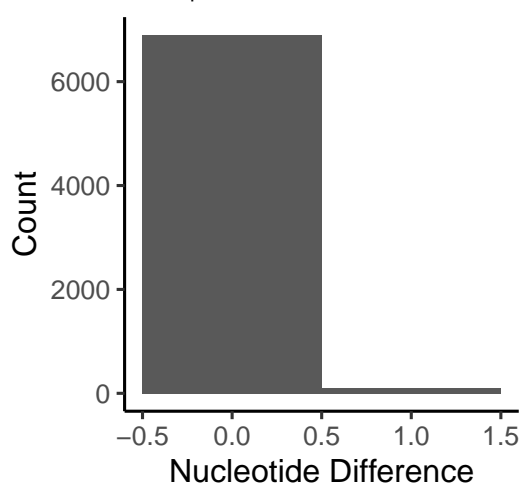
### TRBV7–3\*ap03

990 sequences assigned  
980 (99%) exact matches, in which:  
972 unique CDR3  
13 unique J



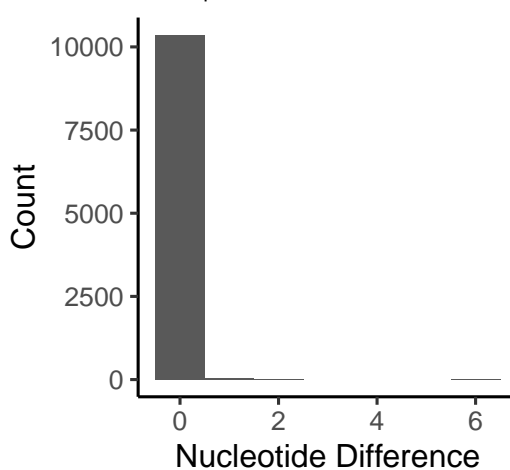
### TRBV6–56\*ap01

7001 sequences assigned  
6897 (98.5%) exact matches, in which:  
6742 unique CDR3  
13 unique J



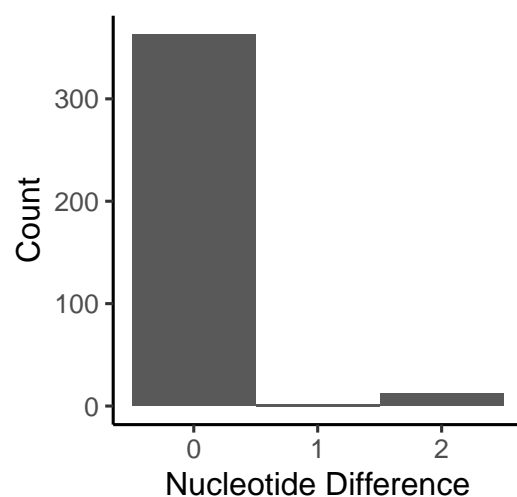
### TRBV7–2\*ap01

10422 sequences assigned  
10364 (99.4%) exact matches, in which:  
10258 unique CDR3  
13 unique J



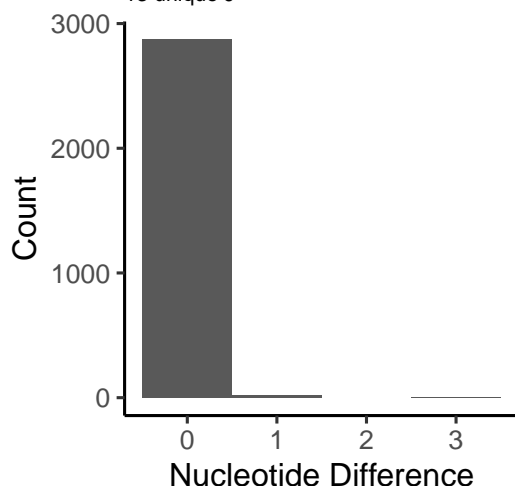
### TRBV7–4\*ap01

377 sequences assigned  
363 (96.3%) exact matches, in which:  
356 unique CDR3  
13 unique J



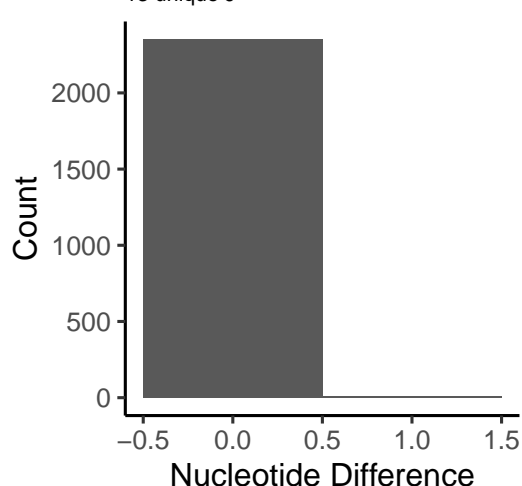
### TRBV7-6\*ap01

2893 sequences assigned  
2873 (99.3%) exact matches, in which:  
2840 unique CDR3  
13 unique J



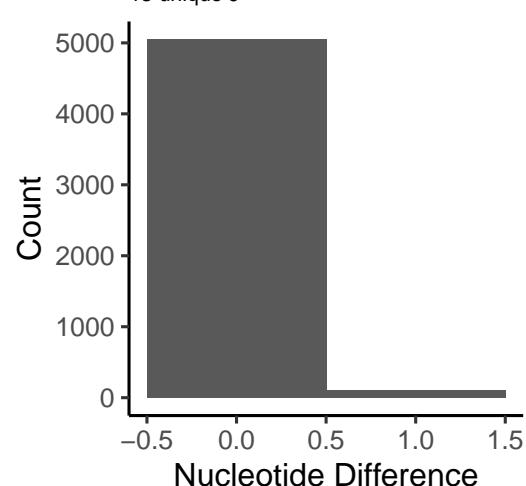
### TRBV7-8\*ap01

2362 sequences assigned  
2351 (99.5%) exact matches, in which:  
2327 unique CDR3  
13 unique J



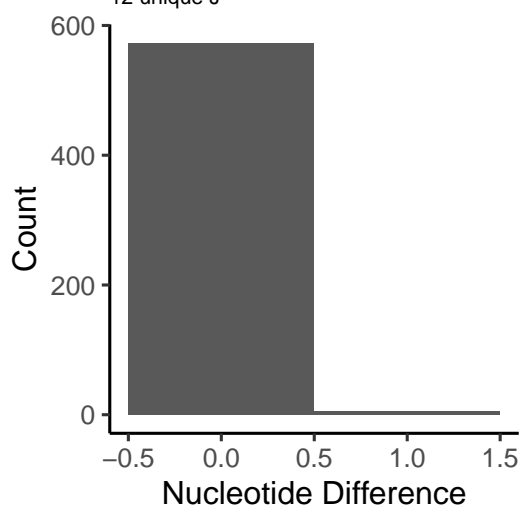
### TRBV29-1\*ap01

5160 sequences assigned  
5049 (97.8%) exact matches, in which:  
4906 unique CDR3  
13 unique J



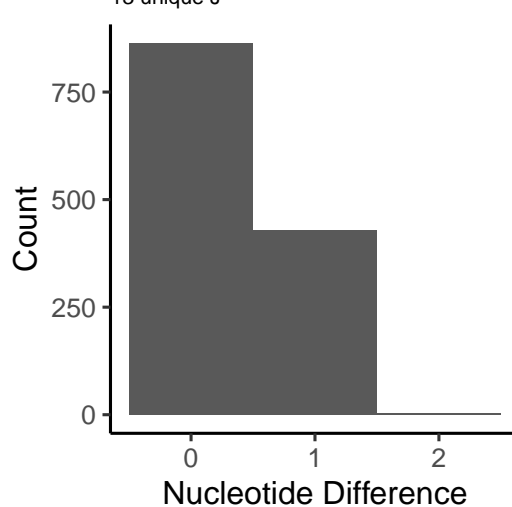
### TRBV7-7\*ap01

578 sequences assigned  
573 (99.1%) exact matches, in which:  
567 unique CDR3  
12 unique J



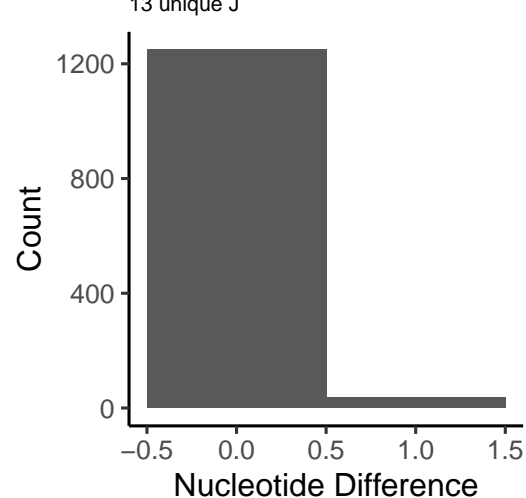
### TRBV7-8\*ap03

1296 sequences assigned  
864 (66.7%) exact matches, in which:  
851 unique CDR3  
13 unique J



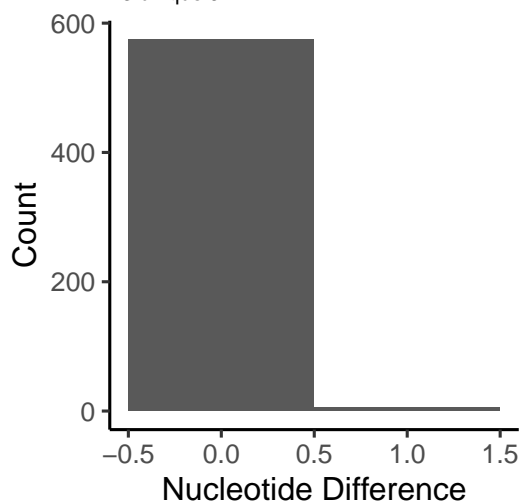
### TRBV29-1\*ap02

1287 sequences assigned  
1249 (97%) exact matches, in which:  
1213 unique CDR3  
13 unique J



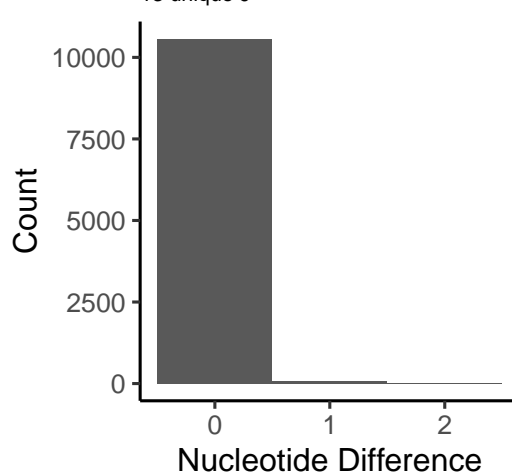
### TRBV7-7\*ap01\_C315T

581 sequences assigned  
575 (99%) exact matches, in which:  
567 unique CDR3  
13 unique J

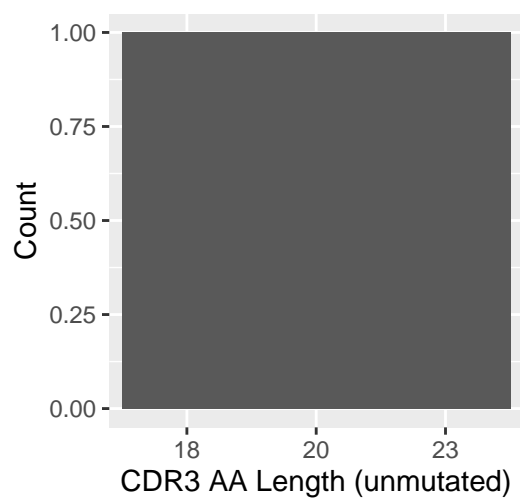


### TRBV7-9\*ap01

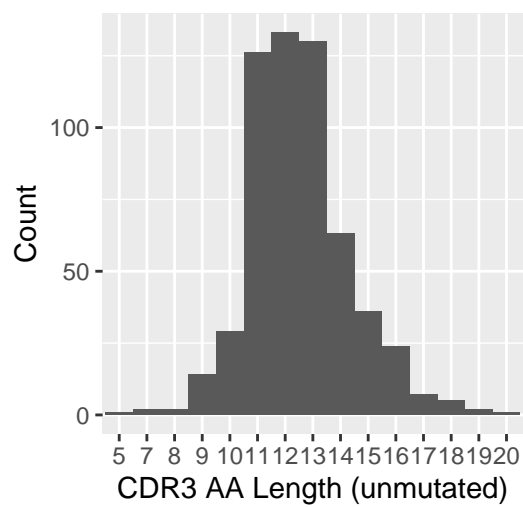
10641 sequences assigned  
10570 (99.3%) exact matches, in which:  
10439 unique CDR3  
13 unique J



TRBV7-1\*ap01\_T296C



TRBV7-7\*ap01\_C315T





[illegible]