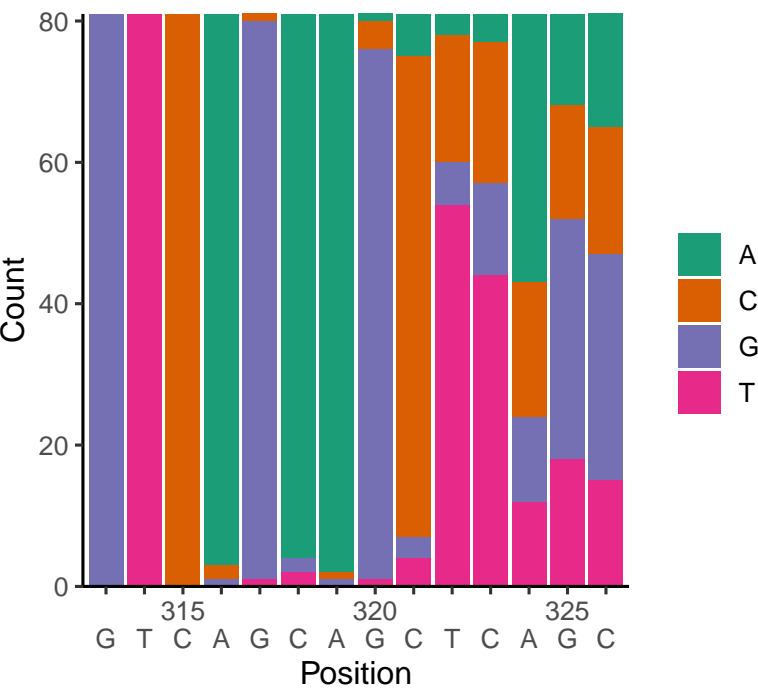
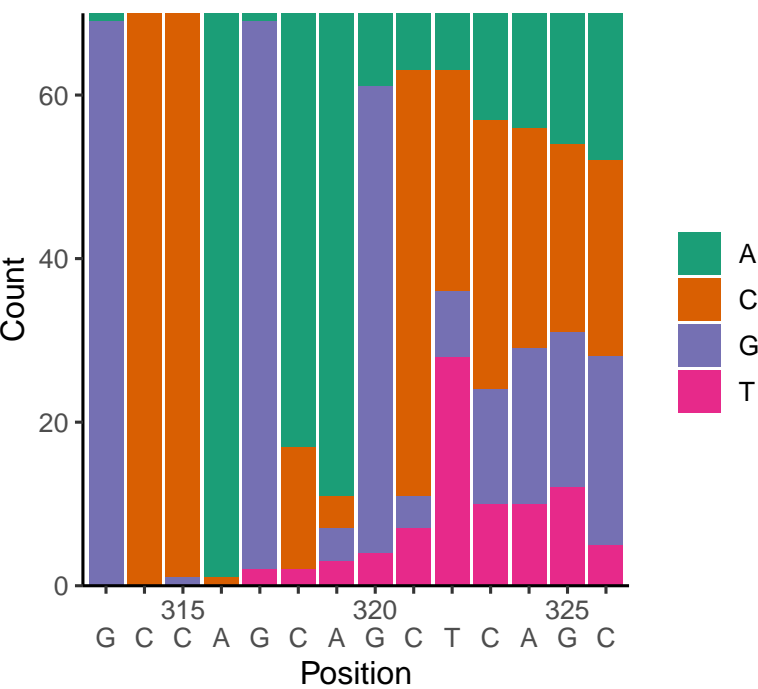


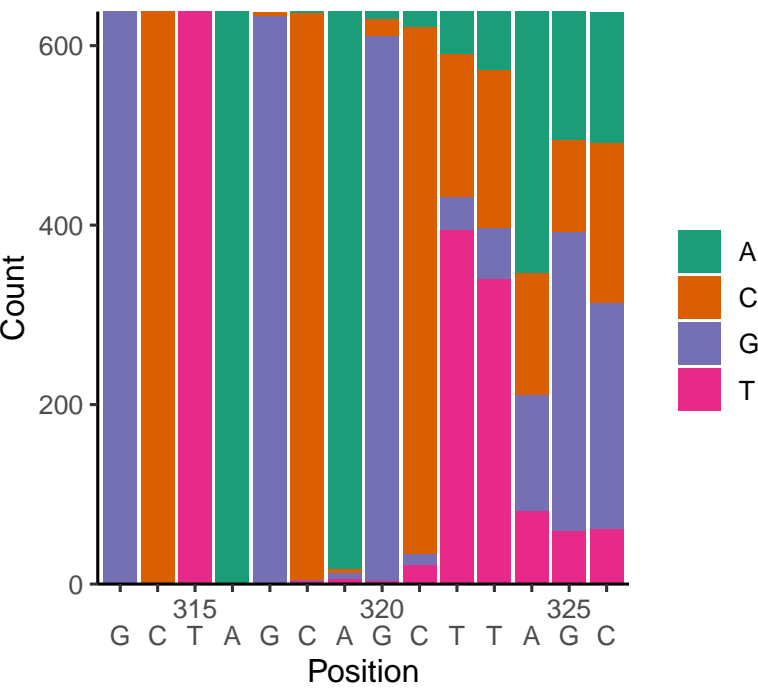
Gene TRBV7-1\*ap01\_T296C\_C314T



Gene TRBV7-1\*ap01\_T296C



Gene TRBV7-7\*ap01\_C315T



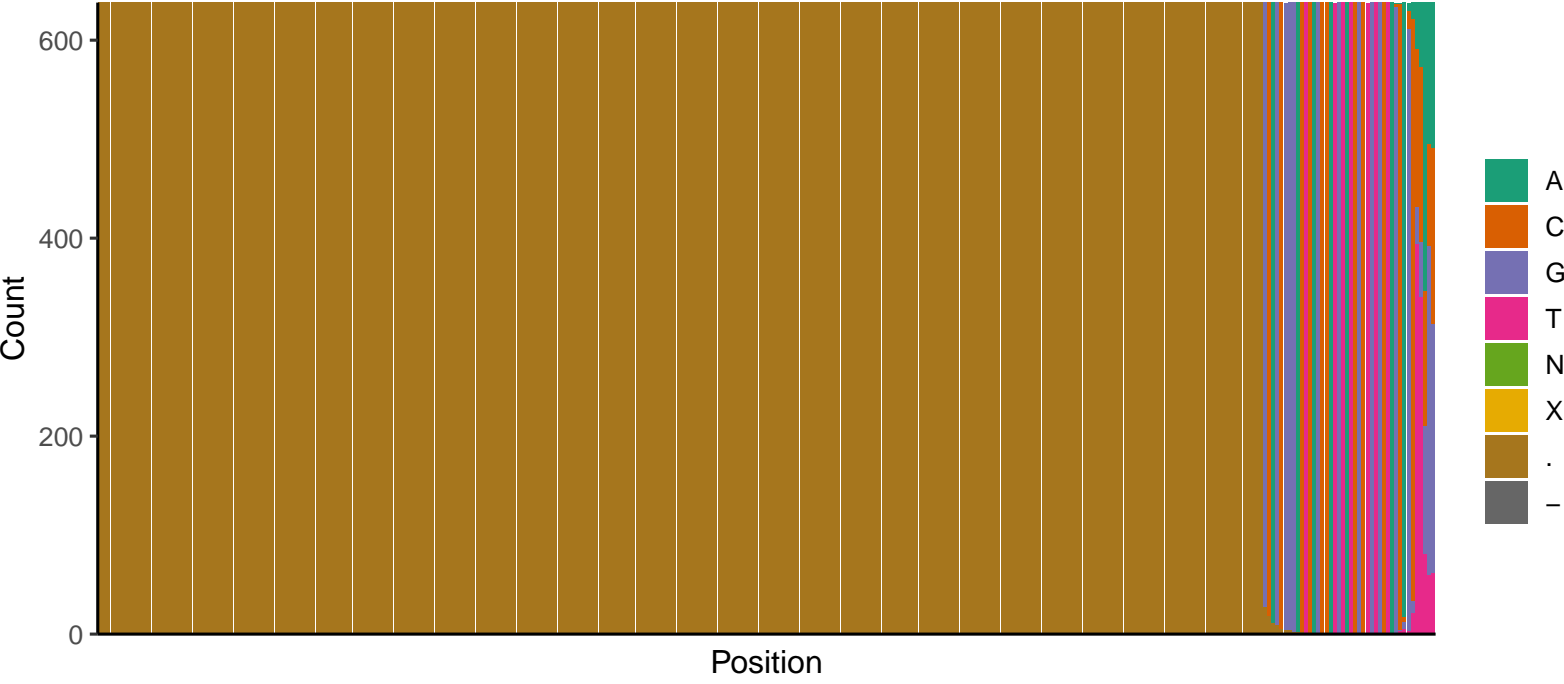
Gene TRBV7-1\*ap01\_T296C\_C314T



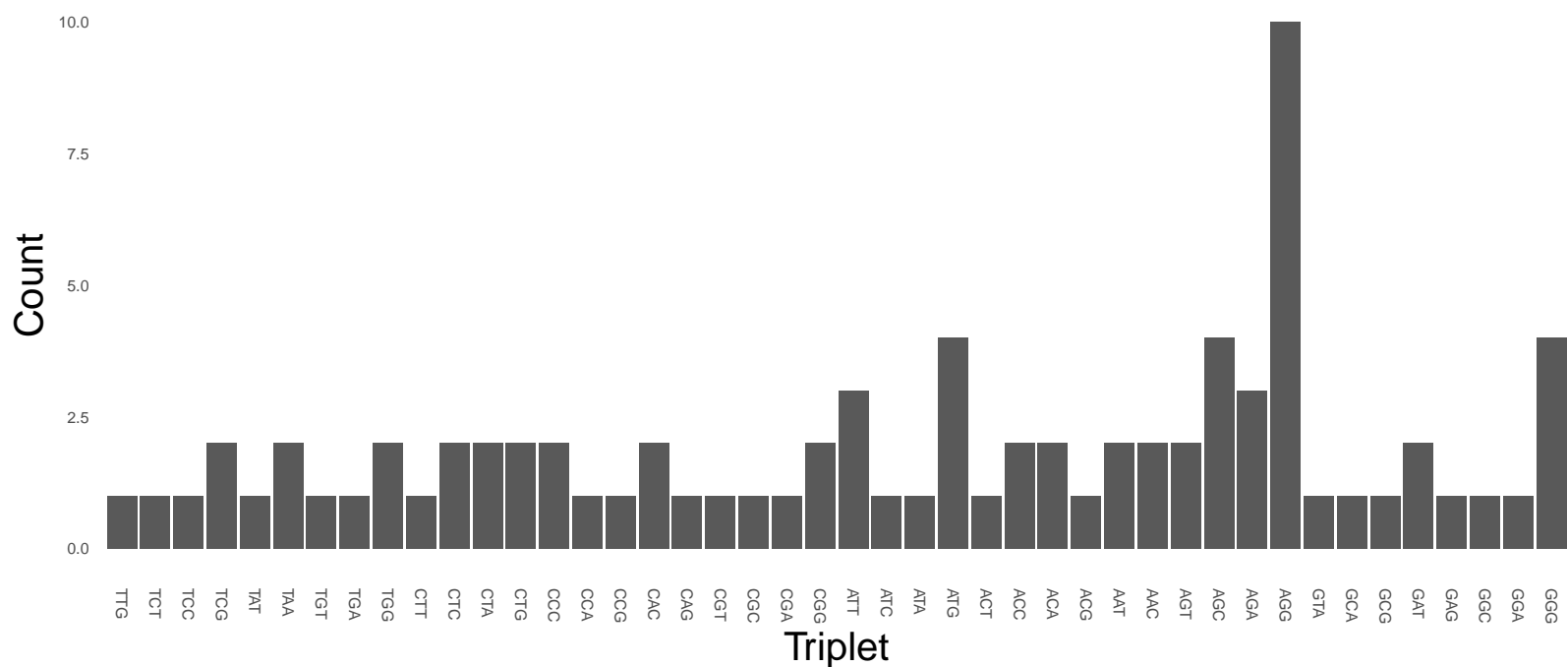
Gene TRBV7-1\*ap01\_T296C



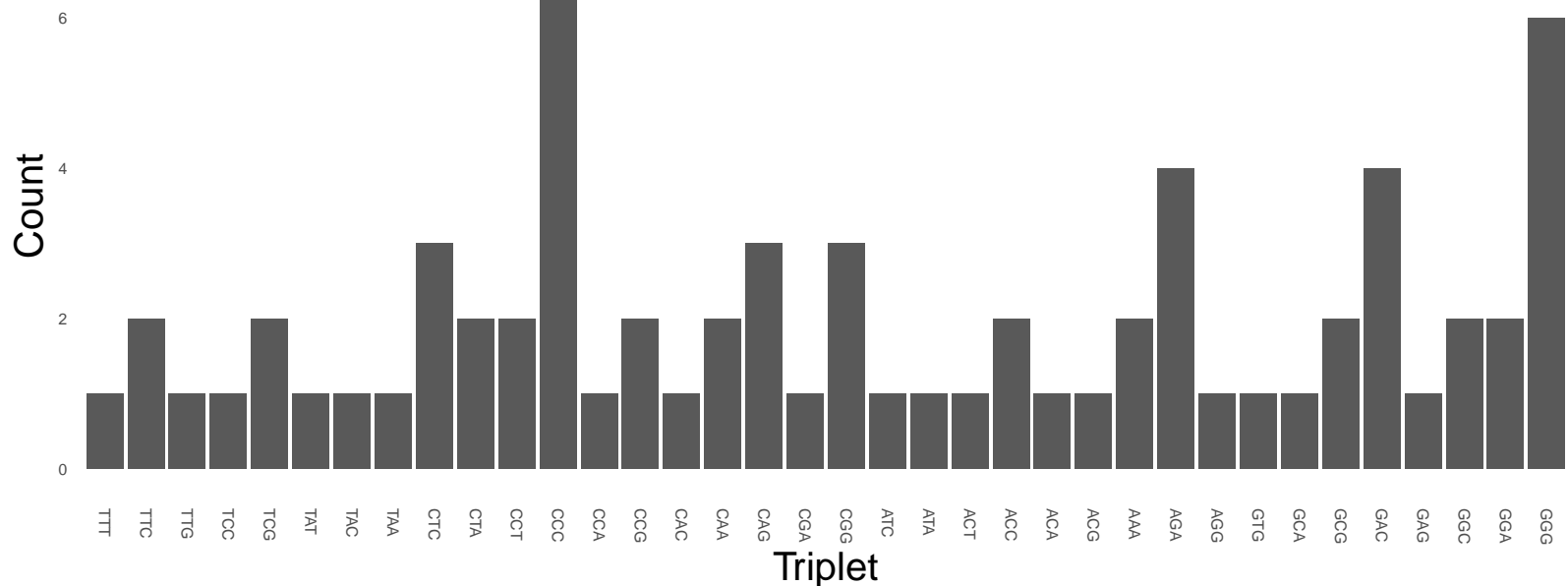
Gene TRBV7-7\*ap01\_C315T



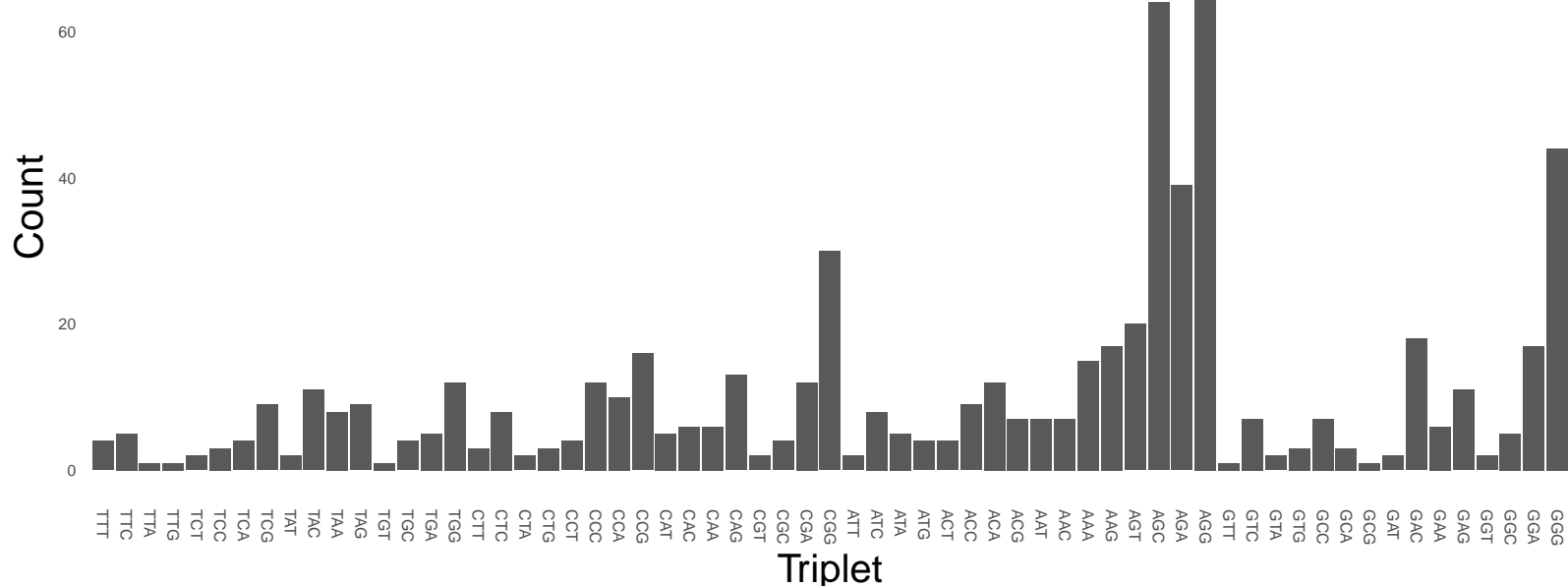
TRBV7-1\*ap01\_T296C\_C314T- Final 3 nucleotides as a triplet



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

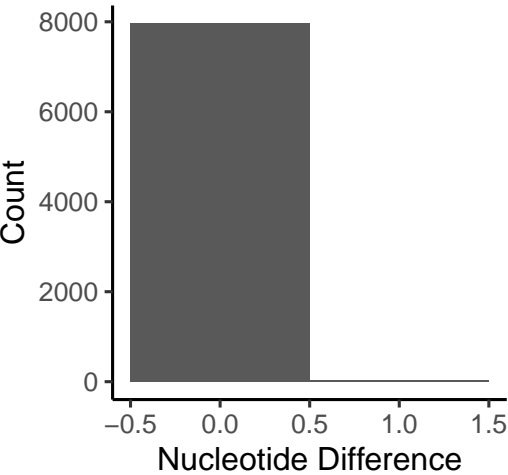


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



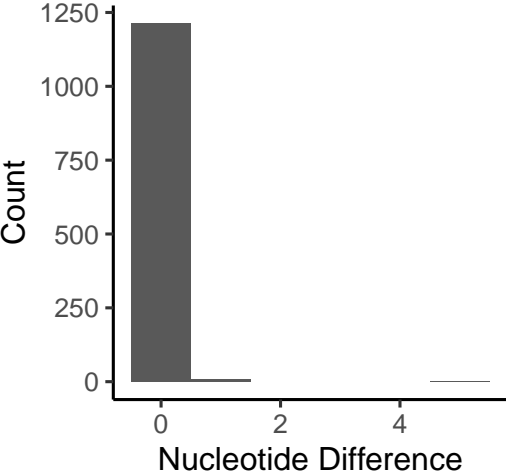
TRBV20-1\*ap01

8005 sequences assigned  
7964 (99.5%) exact matches, in which:  
7869 unique CDR3  
13 unique J



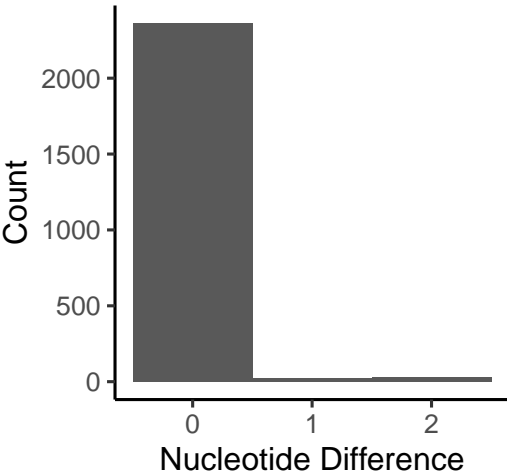
TRBV10-2\*ap01

1222 sequences assigned  
1213 (99.3%) exact matches, in which:  
1191 unique CDR3  
13 unique J



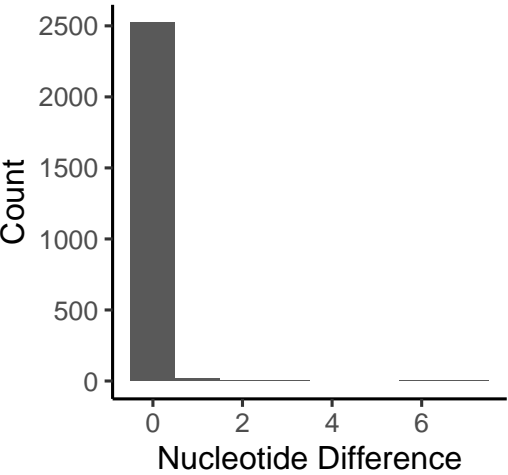
TRBV13\*ap01

2415 sequences assigned  
2361 (97.8%) exact matches, in which:  
2285 unique CDR3  
13 unique J



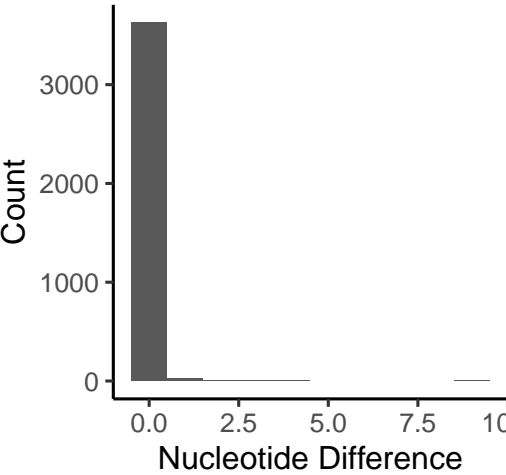
TRBV10-1\*ap01

2547 sequences assigned  
2522 (99%) exact matches, in which:  
2468 unique CDR3  
13 unique J



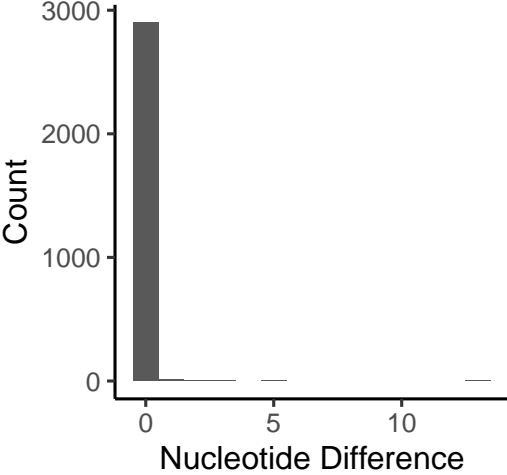
TRBV10-3\*ap01

3658 sequences assigned  
3627 (99.2%) exact matches, in which:  
3523 unique CDR3  
13 unique J



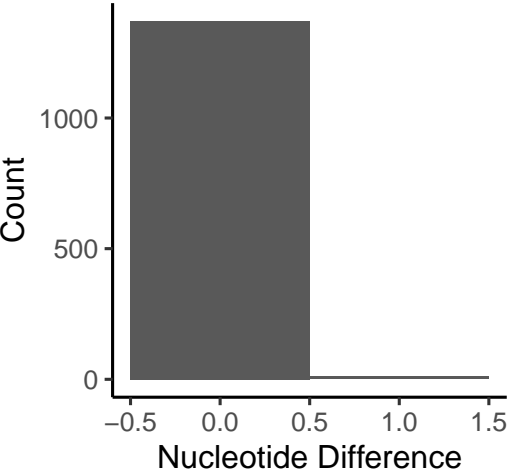
TRBV14\*ap01

2918 sequences assigned  
2899 (99.3%) exact matches, in which:  
2849 unique CDR3  
13 unique J



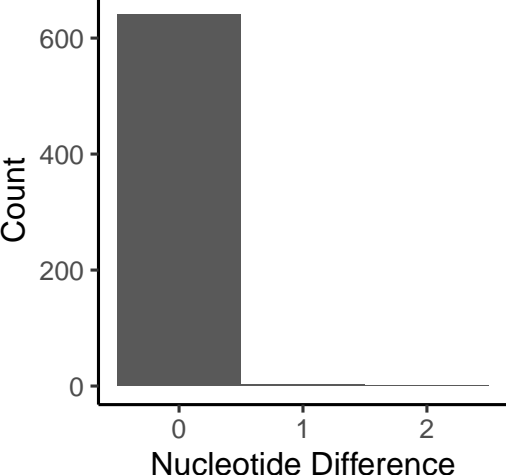
TRBV20-1\*ap02

1382 sequences assigned  
1371 (99.2%) exact matches, in which:  
1360 unique CDR3  
13 unique J



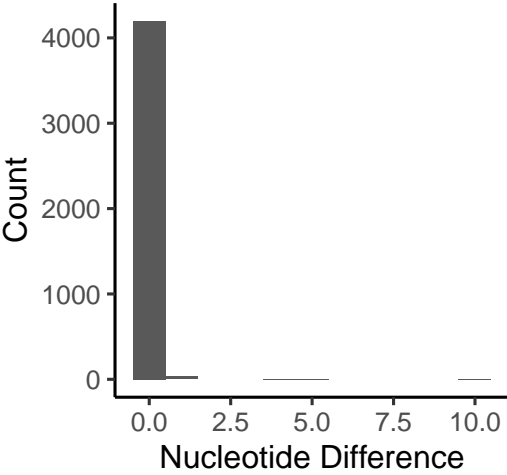
TRBV1\*ap01

644 sequences assigned  
641 (99.5%) exact matches, in which:  
611 unique CDR3  
13 unique J



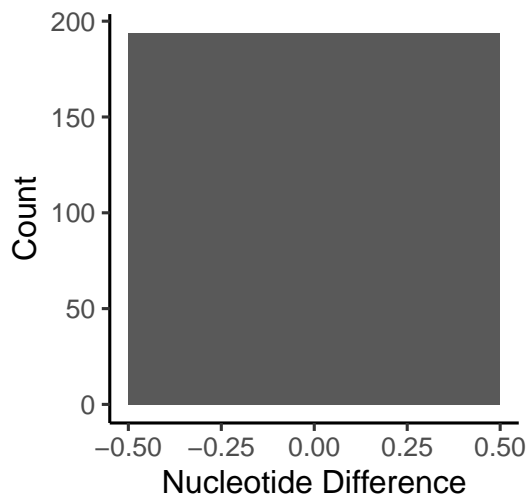
TRBV15\*ap02

4235 sequences assigned  
4197 (99.1%) exact matches, in which:  
4101 unique CDR3  
13 unique J



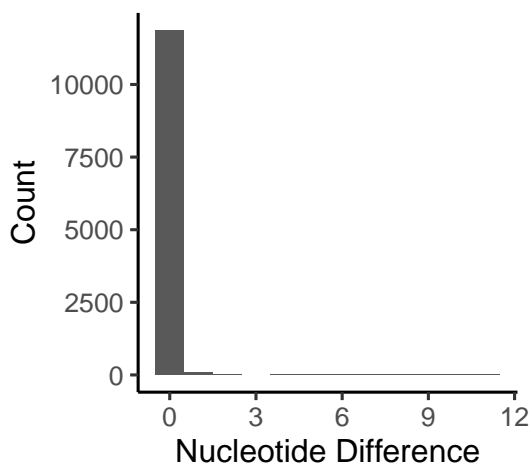
### TRBV16\*ap01

194 sequences assigned  
194 (100%) exact matches, in which:  
191 unique CDR3  
13 unique J



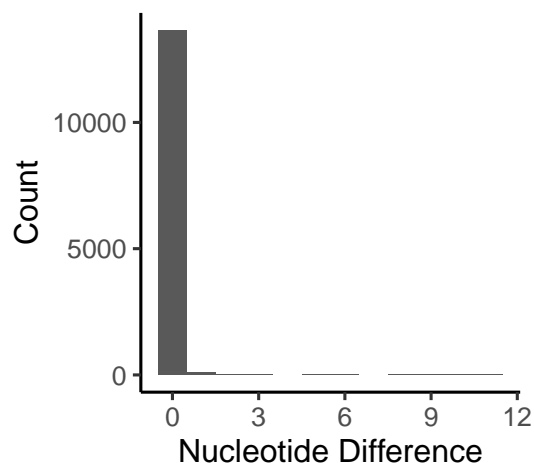
### TRBV19\*ap01

11976 sequences assigned  
11870 (99.1%) exact matches, in which:  
11780 unique CDR3  
13 unique J



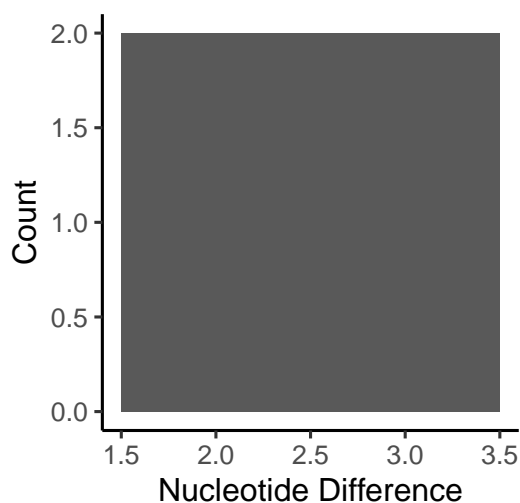
### TRBV27\*ap01

13756 sequences assigned  
13654 (99.3%) exact matches, in which:  
13425 unique CDR3  
13 unique J



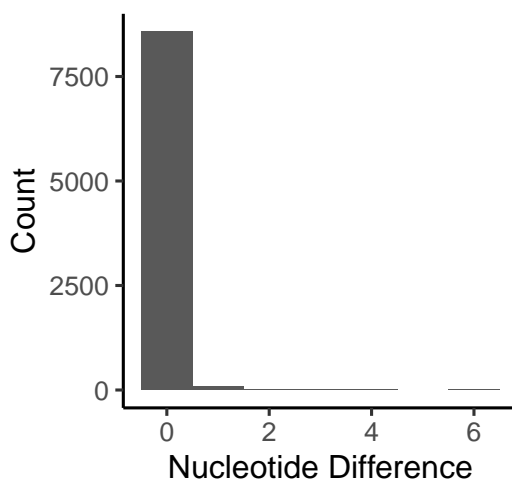
### TRBV17\*ap01

4 sequences assigned  
No exact matches.



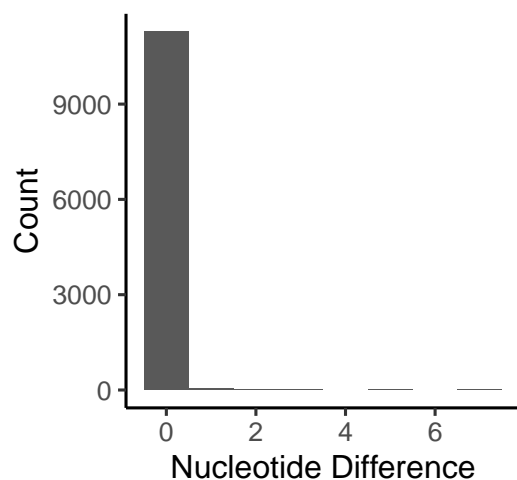
### TRBV2\*ap01

8660 sequences assigned  
8571 (99%) exact matches, in which:  
8371 unique CDR3  
13 unique J



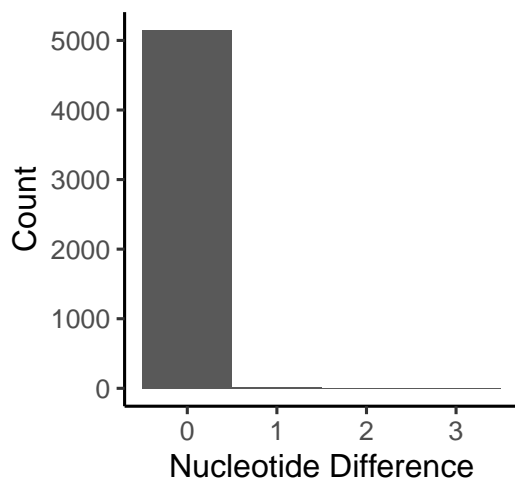
### TRBV28\*ap01

11351 sequences assigned  
11278 (99.4%) exact matches, in which:  
11135 unique CDR3  
13 unique J



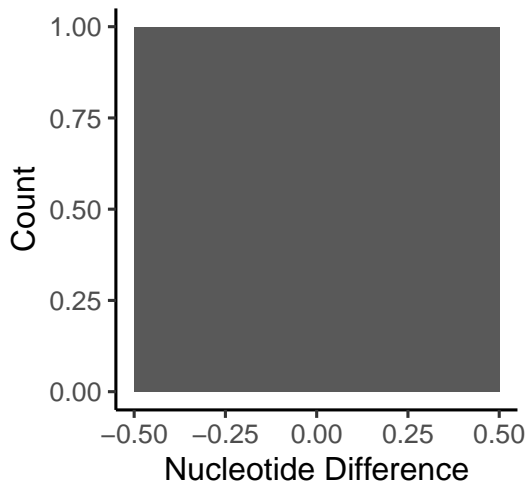
### TRBV18\*ap01

5168 sequences assigned  
5149 (99.6%) exact matches, in which:  
5093 unique CDR3  
13 unique J



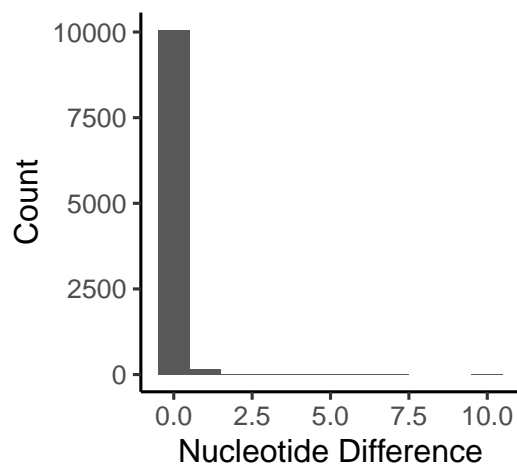
### TRBV26\*ap01

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



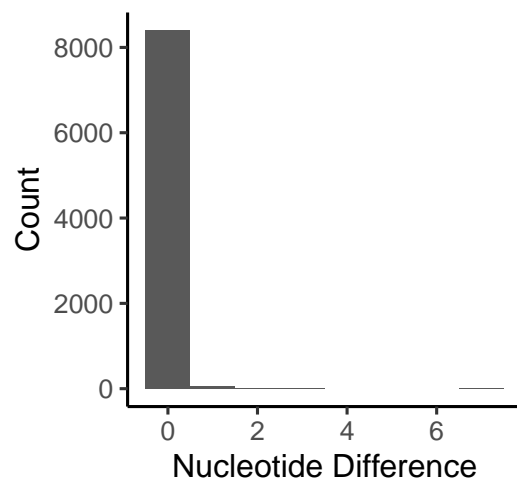
### TRBV30\*ap01

10242 sequences assigned  
10065 (98.3%) exact matches, in which:  
9643 unique CDR3  
13 unique J



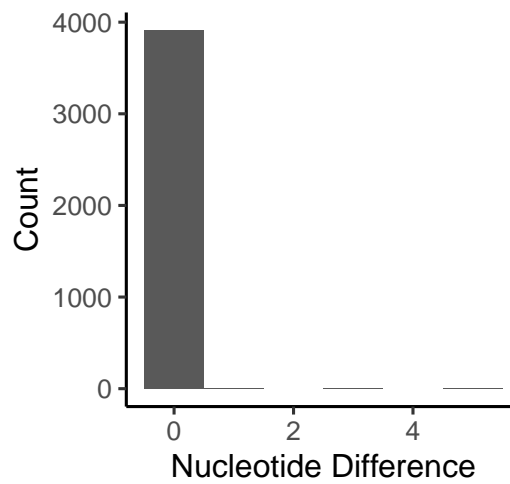
### TRBV9\*ap01

8454 sequences assigned  
8399 (99.3%) exact matches, in which:  
8303 unique CDR3  
13 unique J



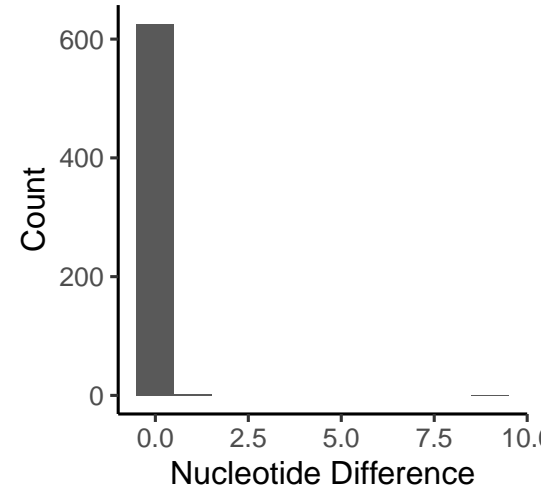
### TRBV11-2\*ap01

3918 sequences assigned  
3910 (99.8%) exact matches, in which:  
3886 unique CDR3  
13 unique J



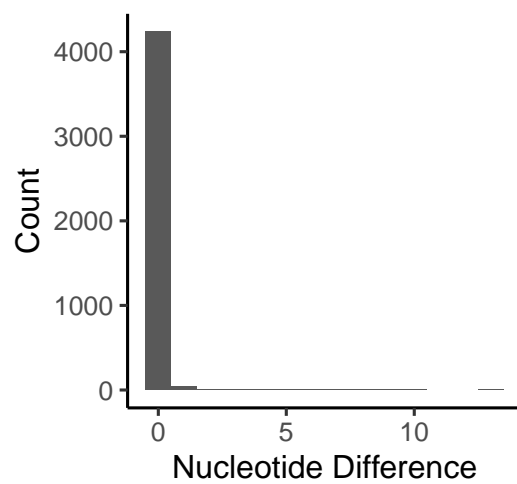
### TRBV12-2\*ap01

630 sequences assigned  
626 (99.4%) exact matches, in which:  
615 unique CDR3  
13 unique J



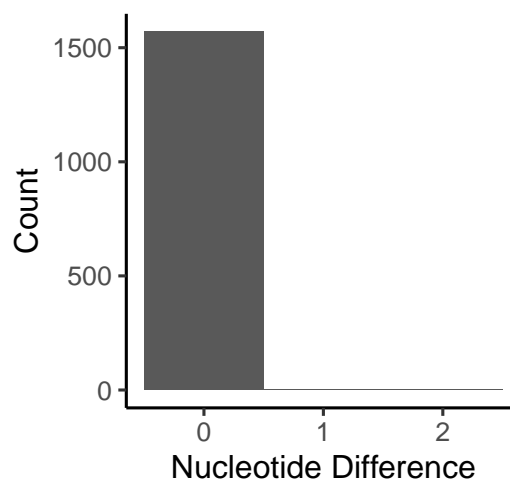
### TRBV21-1\*ap01

4306 sequences assigned  
4236 (98.4%) exact matches, in which:  
4195 unique CDR3  
13 unique J



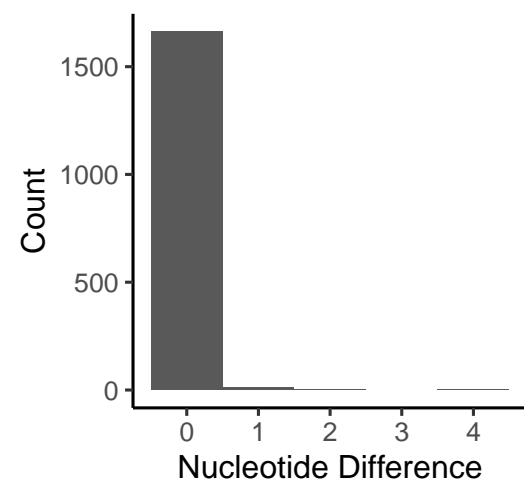
### TRBV11-3\*ap01

1575 sequences assigned  
1570 (99.7%) exact matches, in which:  
1564 unique CDR3  
13 unique J



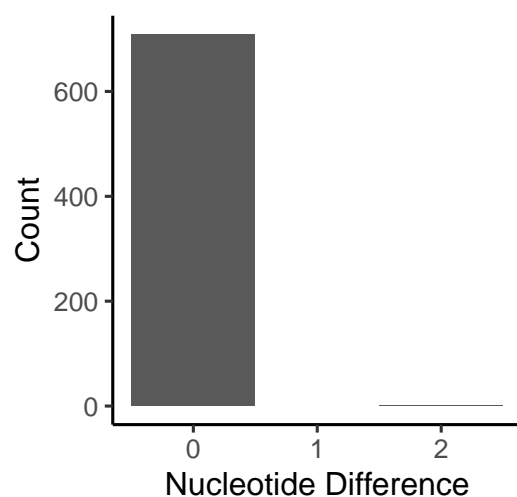
### TRBV12-5\*ap01

1674 sequences assigned  
1662 (99.3%) exact matches, in which:  
1644 unique CDR3  
13 unique J



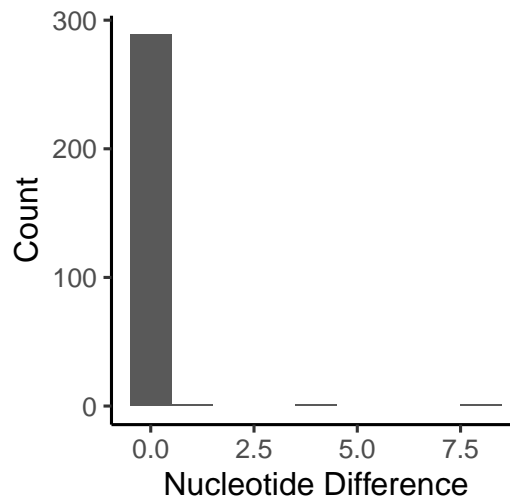
### TRBV11-1\*ap01

710 sequences assigned  
709 (99.9%) exact matches, in which:  
705 unique CDR3  
13 unique J



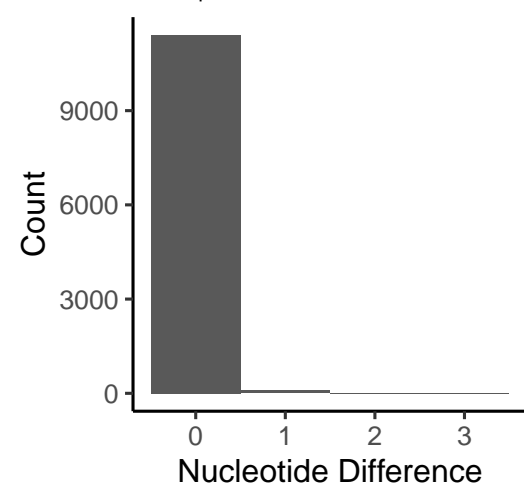
### TRBV12-1\*ap01

292 sequences assigned  
289 (99%) exact matches, in which:  
286 unique CDR3  
13 unique J



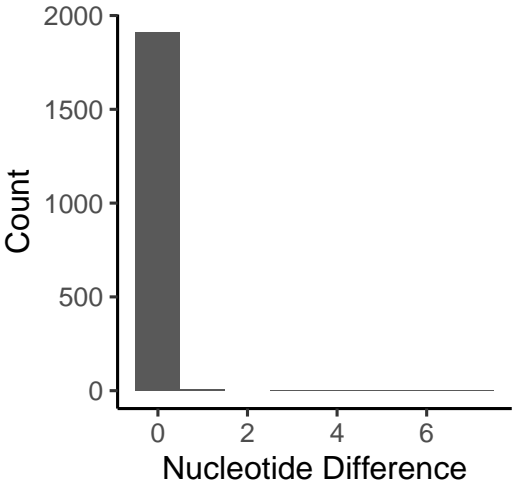
### TRBV12-34\*ap01

11499 sequences assigned  
11407 (99.2%) exact matches, in which:  
11189 unique CDR3  
13 unique J



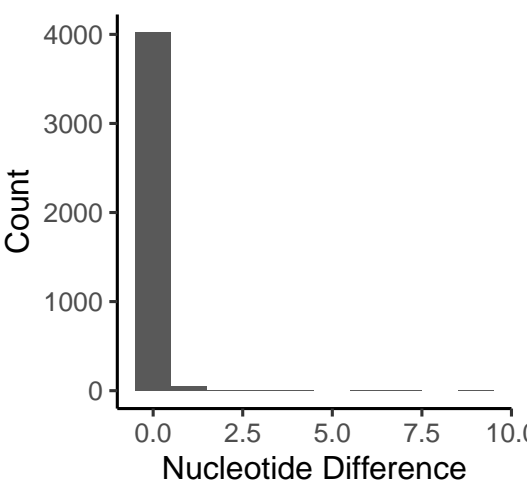
TRBV23-1\*ap01

1928 sequences assigned  
1910 (99.1%) exact matches, in which:  
1878 unique CDR3  
13 unique J



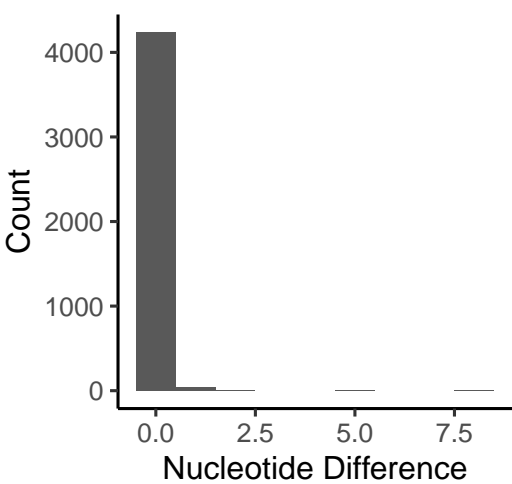
TRBV24-1\*ap01

4083 sequences assigned  
4022 (98.5%) exact matches, in which:  
3934 unique CDR3  
13 unique J



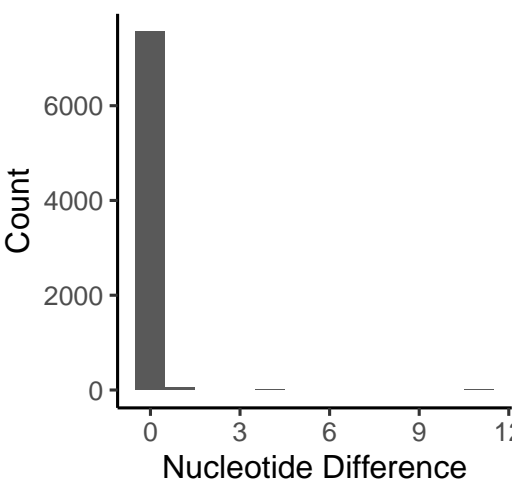
TRBV25-1\*ap01

4285 sequences assigned  
4236 (98.9%) exact matches, in which:  
4073 unique CDR3  
13 unique J



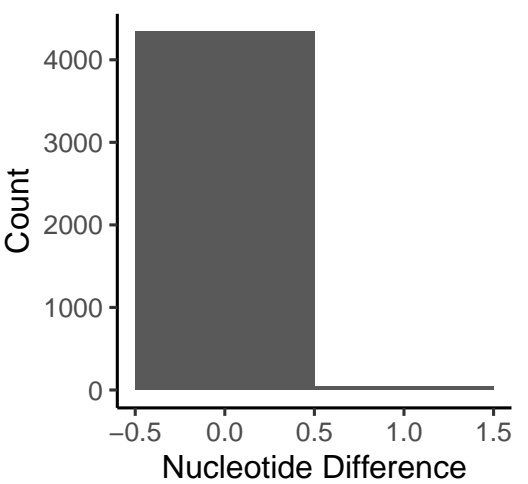
TRBV3-12\*ap01

7616 sequences assigned  
7561 (99.3%) exact matches, in which:  
7478 unique CDR3  
13 unique J



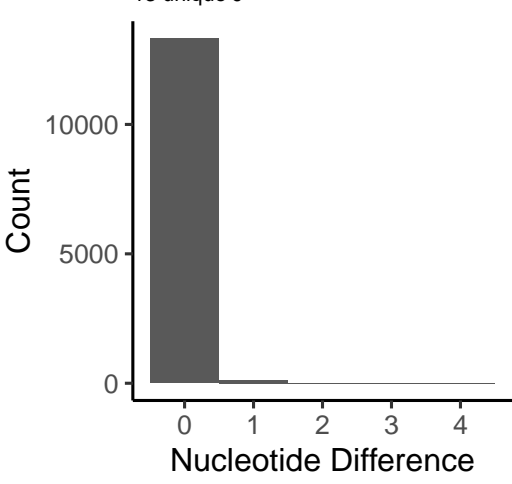
TRBV4-2\*ap01

4387 sequences assigned  
4340 (98.9%) exact matches, in which:  
4239 unique CDR3  
13 unique J



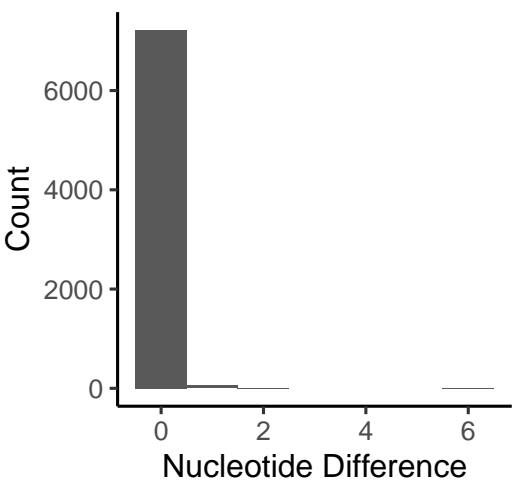
TRBV5-1\*ap01

13448 sequences assigned  
13321 (99.1%) exact matches, in which:  
12984 unique CDR3  
13 unique J



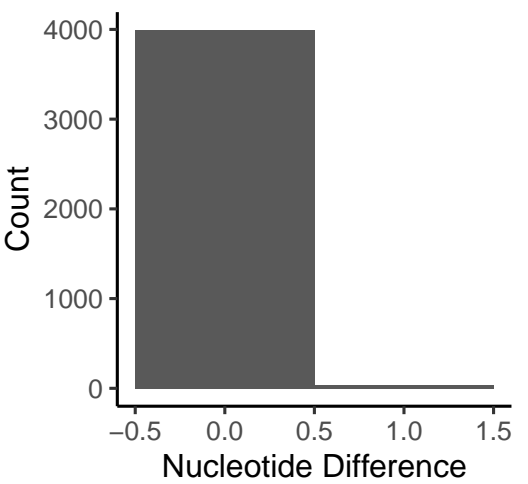
TRBV4-1\*ap01

7275 sequences assigned  
7219 (99.2%) exact matches, in which:  
7051 unique CDR3  
13 unique J



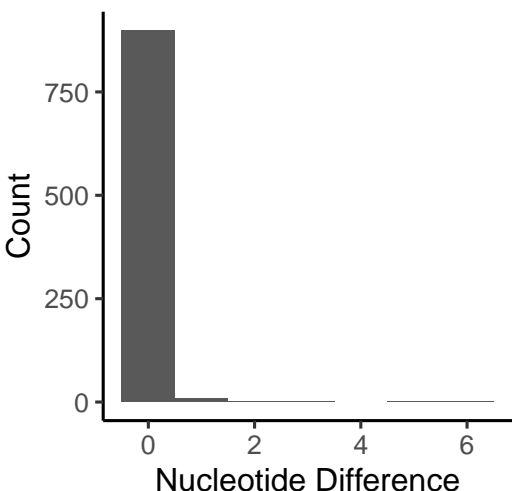
TRBV4-3\*ap01

4027 sequences assigned  
3993 (99.2%) exact matches, in which:  
3932 unique CDR3  
13 unique J



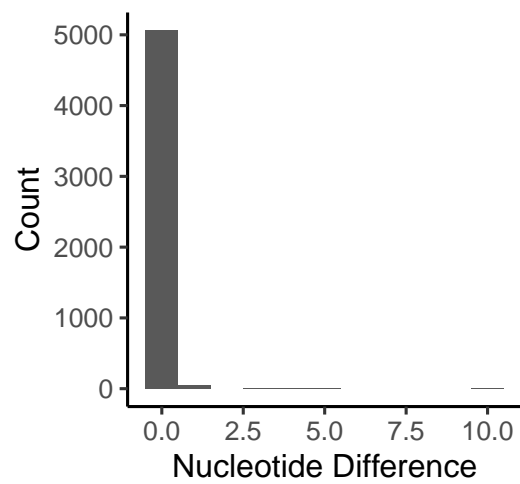
TRBV5-3\*ap01

913 sequences assigned  
899 (98.5%) exact matches, in which:  
888 unique CDR3  
13 unique J



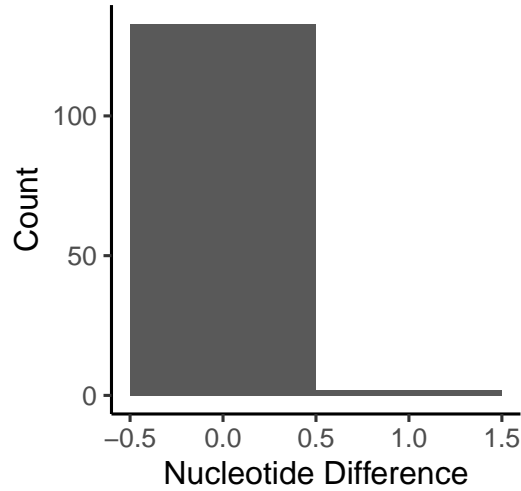
### TRBV5-4\*ap01

5118 sequences assigned  
5062 (98.9%) exact matches, in which:  
4927 unique CDR3  
13 unique J



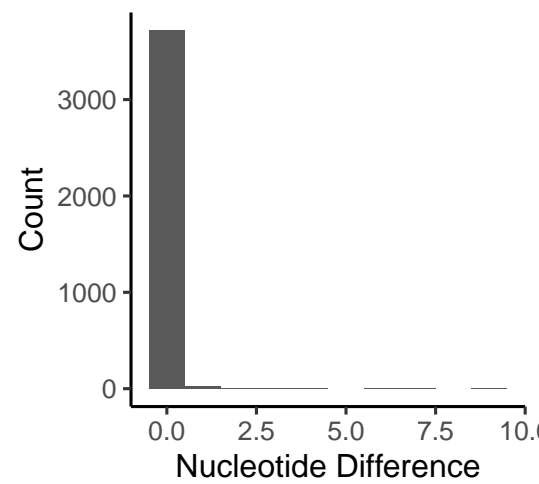
### TRBV5-7\*ap01

135 sequences assigned  
133 (98.5%) exact matches, in which:  
128 unique CDR3  
13 unique J



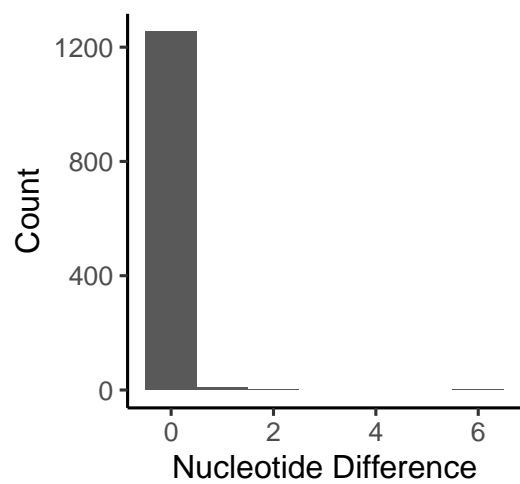
### TRBV6-4\*ap01

3750 sequences assigned  
3718 (99.1%) exact matches, in which:  
3669 unique CDR3  
13 unique J



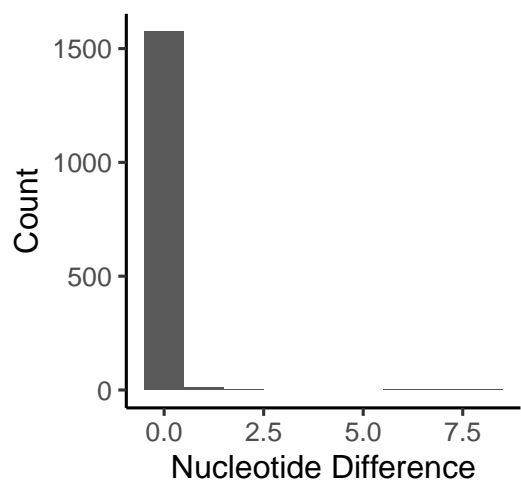
### TRBV5-5\*ap01

1264 sequences assigned  
1254 (99.2%) exact matches, in which:  
1247 unique CDR3  
13 unique J



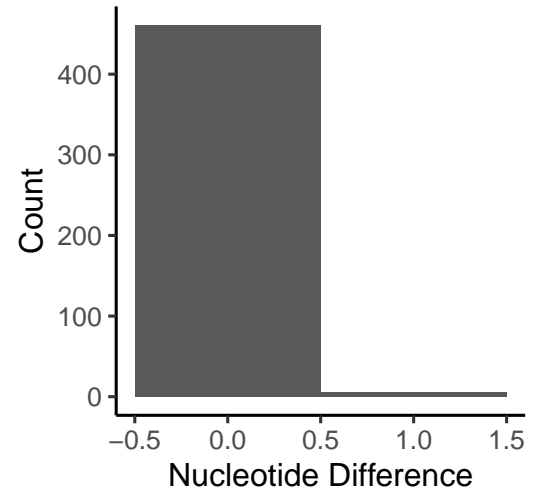
### TRBV5-8\*ap01

1590 sequences assigned  
1574 (99%) exact matches, in which:  
1552 unique CDR3  
13 unique J



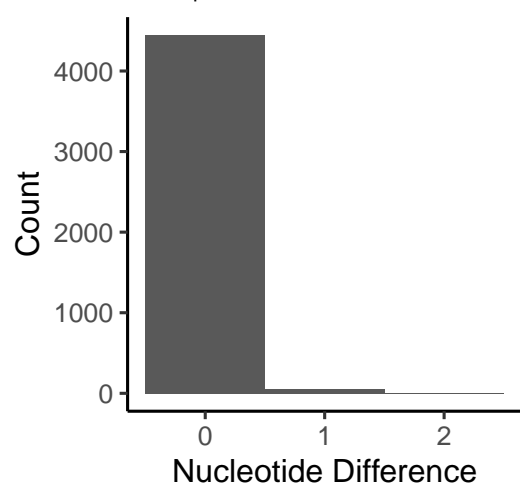
### TRBV6-7\*ap01

466 sequences assigned  
461 (98.9%) exact matches, in which:  
445 unique CDR3  
13 unique J



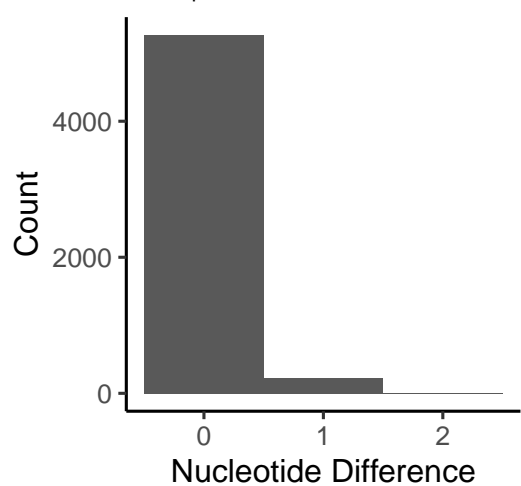
### TRBV5-6\*ap01

4503 sequences assigned  
4446 (98.7%) exact matches, in which:  
4278 unique CDR3  
14 unique J



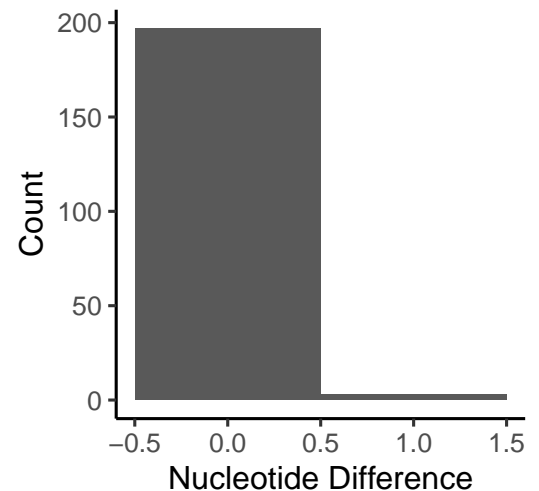
### TRBV6-1\*ap01

5491 sequences assigned  
5267 (95.9%) exact matches, in which:  
5085 unique CDR3  
13 unique J



### TRBV6-8\*ap01

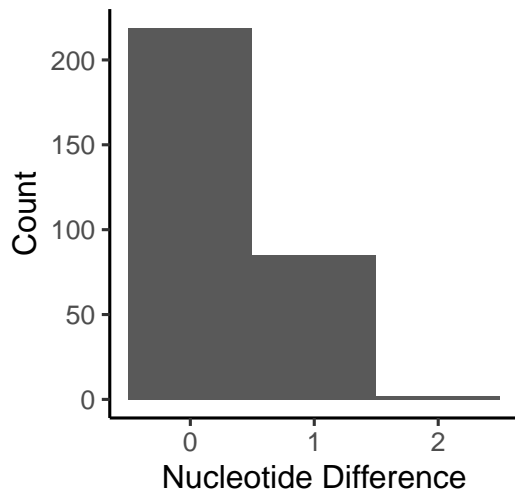
200 sequences assigned  
197 (98.5%) exact matches, in which:  
189 unique CDR3  
13 unique J





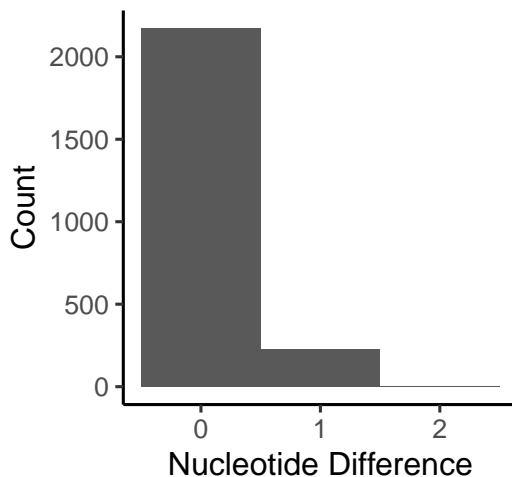
### TRBV6-9\*ap01

306 sequences assigned  
219 (71.6%) exact matches, in which:  
213 unique CDR3  
13 unique J



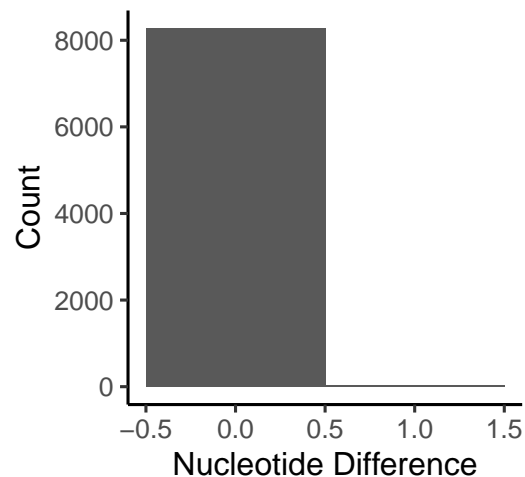
### TRBV6-56\*ap02

2399 sequences assigned  
2172 (90.5%) exact matches, in which:  
2101 unique CDR3  
13 unique J



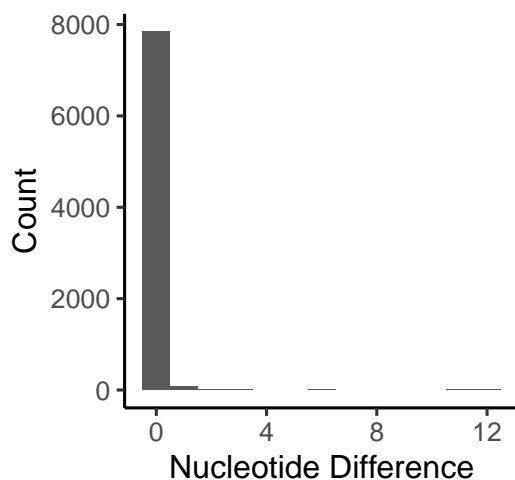
### TRBV7-2\*ap01

8314 sequences assigned  
8274 (99.5%) exact matches, in which:  
8135 unique CDR3  
13 unique J



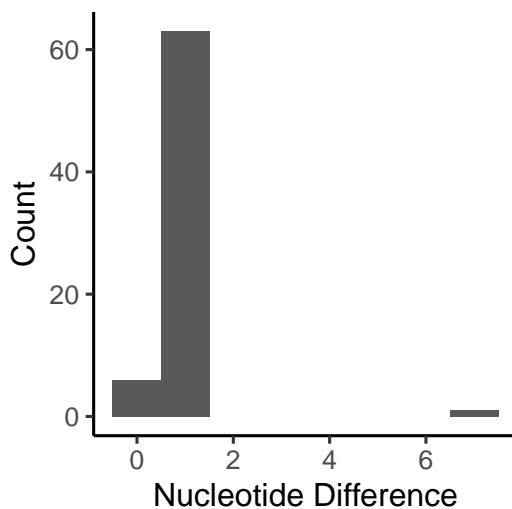
### TRBV6-23\*ap01

7933 sequences assigned  
7843 (98.9%) exact matches, in which:  
7553 unique CDR3  
13 unique J



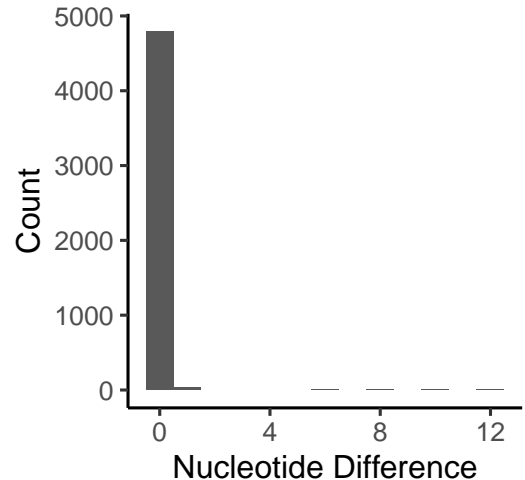
### TRBV7-1\*ap01\_T296C

70 sequences assigned  
6 (8.6%) exact matches, in which:  
6 unique CDR3  
6 unique J



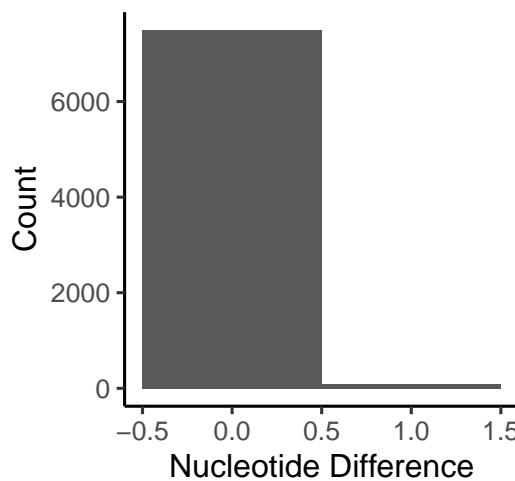
### TRBV7-3\*ap01

4825 sequences assigned  
4789 (99.3%) exact matches, in which:  
4747 unique CDR3  
13 unique J



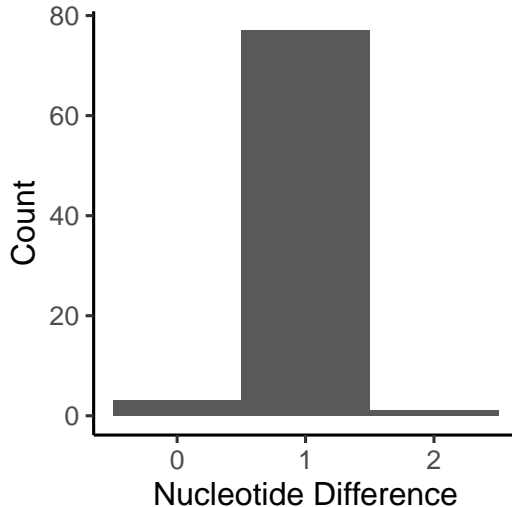
### TRBV6-56\*ap01

7580 sequences assigned  
7496 (98.9%) exact matches, in which:  
7239 unique CDR3  
13 unique J



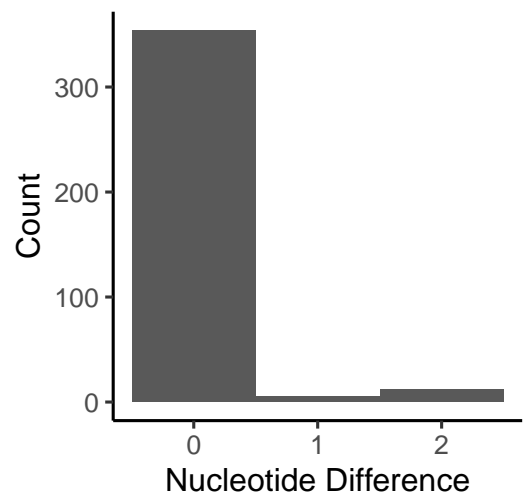
### TRBV7-1\*ap01\_T296C\_C

81 sequences assigned  
3 (3.7%) exact matches, in which:  
3 unique CDR3  
2 unique J



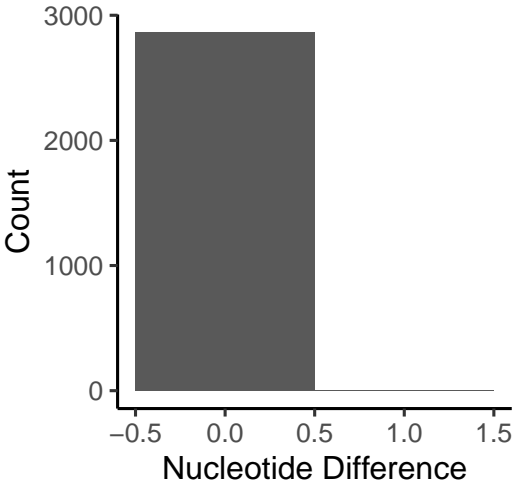
### TRBV7-4\*ap01

371 sequences assigned  
354 (95.4%) exact matches, in which:  
345 unique CDR3  
13 unique J



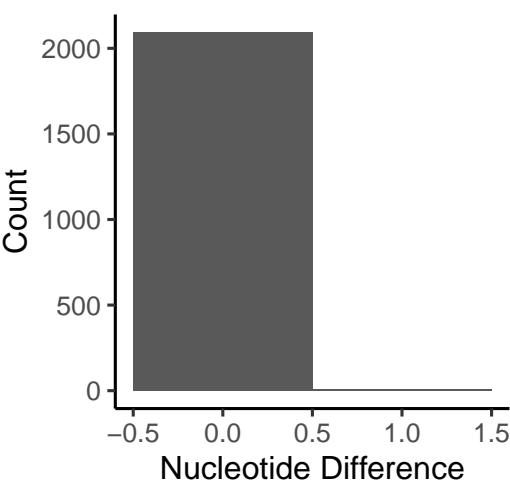
TRBV7-6\*ap01

2870 sequences assigned  
2863 (99.8%) exact matches, in which:  
2799 unique CDR3  
13 unique J



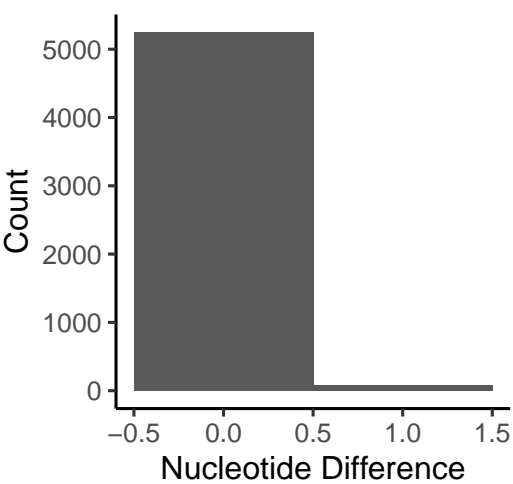
TRBV7-8\*ap01

2100 sequences assigned  
2093 (99.7%) exact matches, in which:  
2059 unique CDR3  
13 unique J



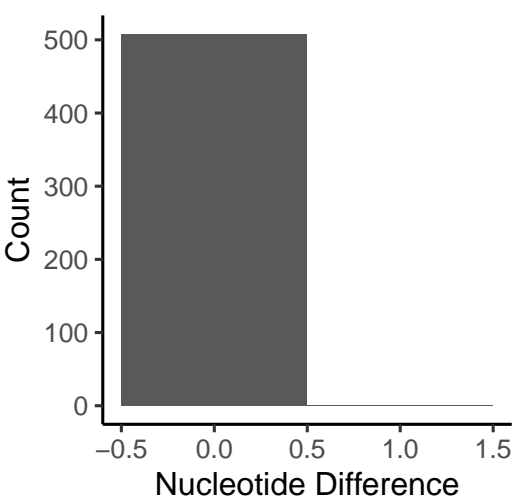
TRBV29-1\*ap01

5320 sequences assigned  
5246 (98.6%) exact matches, in which:  
5019 unique CDR3  
13 unique J



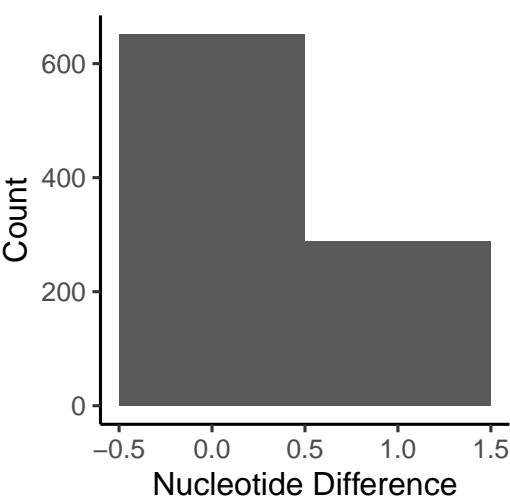
TRBV7-7\*ap01

509 sequences assigned  
508 (99.8%) exact matches, in which:  
502 unique CDR3  
13 unique J



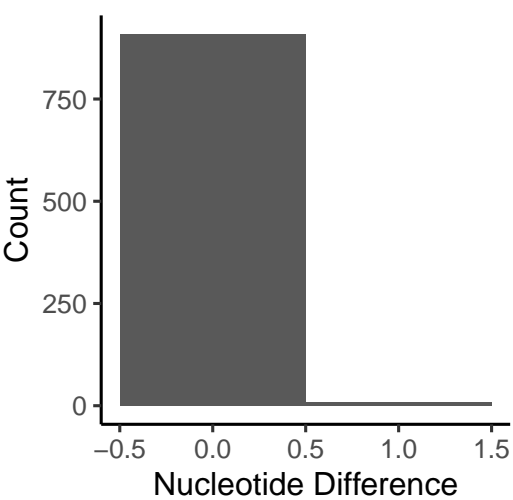
TRBV7-8\*ap03

940 sequences assigned  
652 (69.4%) exact matches, in which:  
642 unique CDR3  
13 unique J



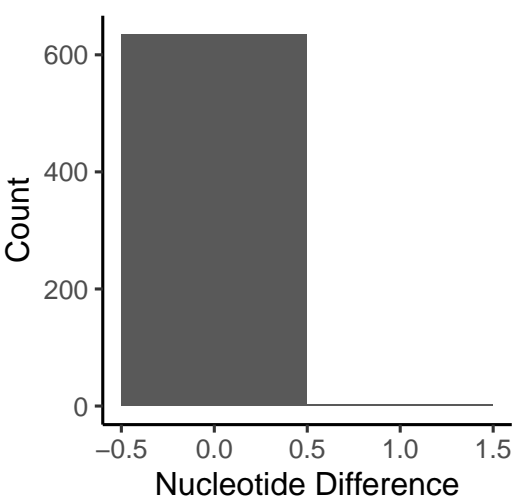
TRBV29-1\*ap02

917 sequences assigned  
909 (99.1%) exact matches, in which:  
870 unique CDR3  
13 unique J



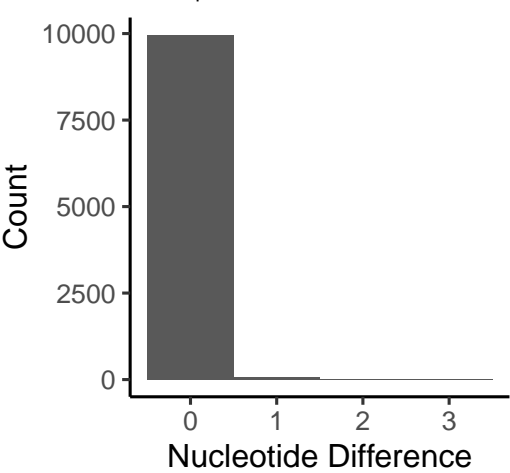
TRBV7-7\*ap01\_C315T

638 sequences assigned  
635 (99.5%) exact matches, in which:  
619 unique CDR3  
13 unique J

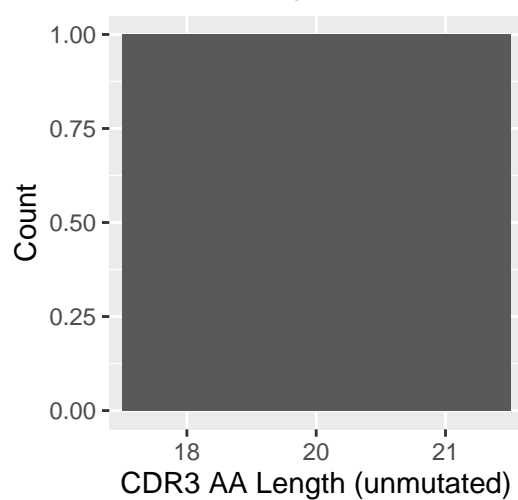


TRBV7-9\*ap01

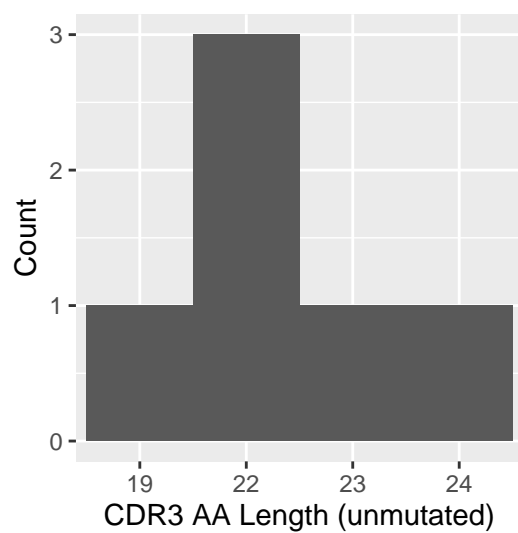
10041 sequences assigned  
9965 (99.2%) exact matches, in which:  
9800 unique CDR3  
13 unique J



TRBV7-1\*ap01\_T296C\_C314T



TRBV7-1\*ap01\_T296C



TRBV7-7\*ap01\_C315T

