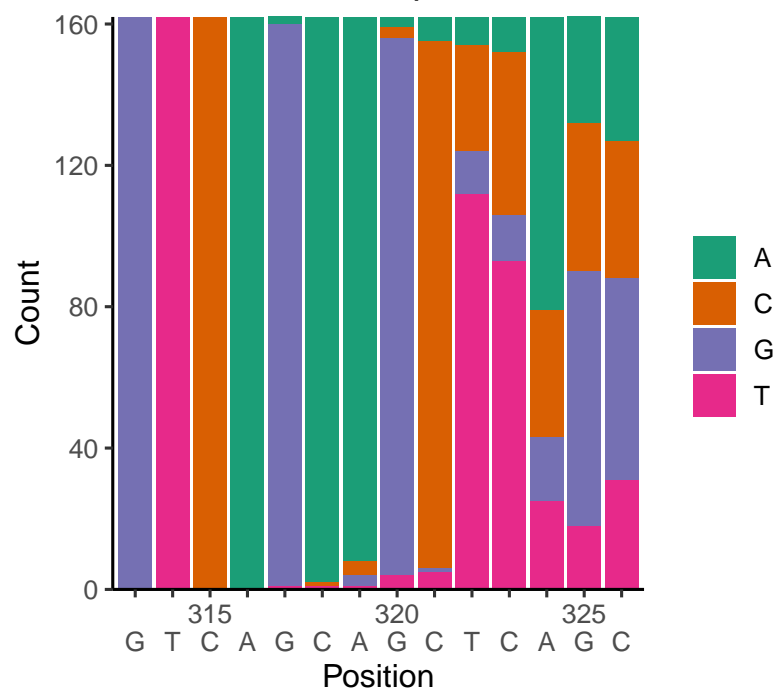
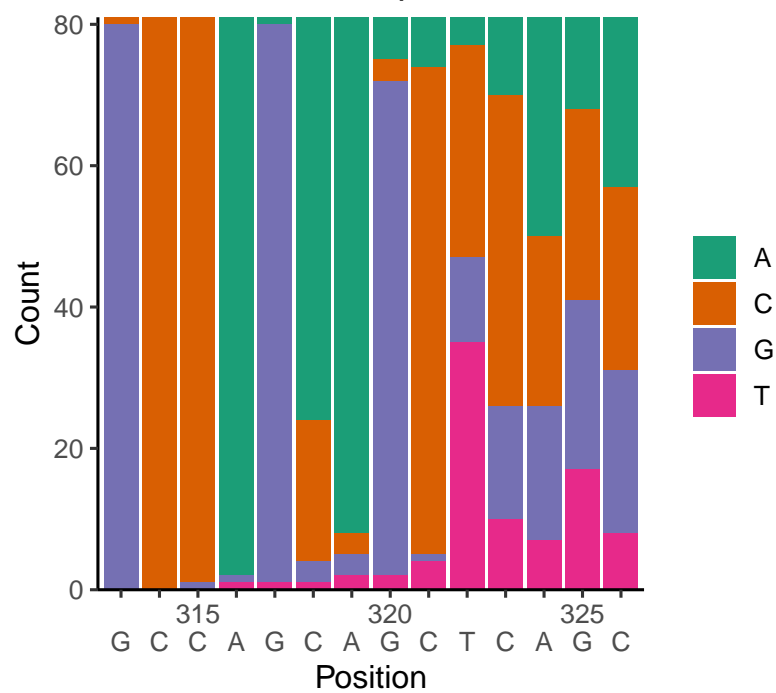


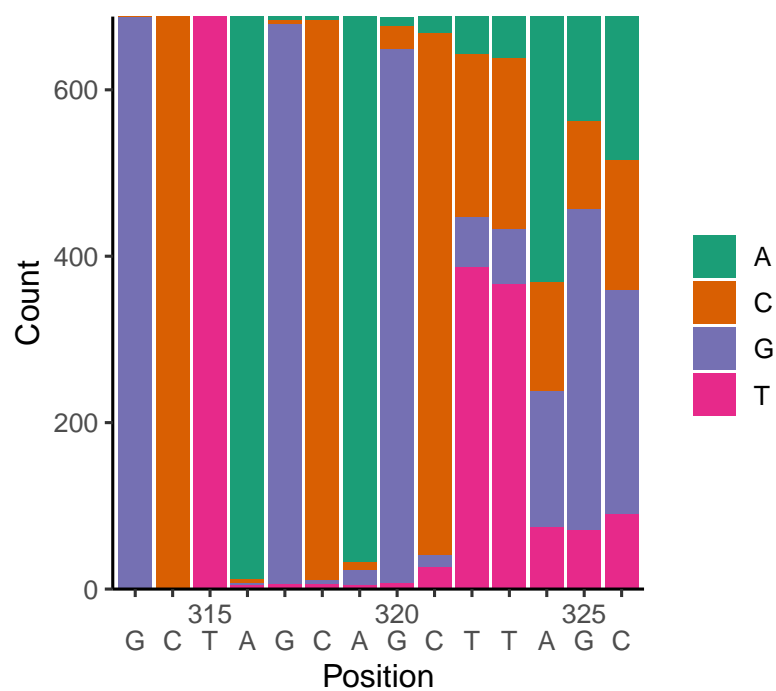
Gene TRBV7-1\*ap01\_T296C\_C314T



Gene TRBV7-1\*ap01\_T296C



Gene TRBV7-7\*ap01\_C315T



Gene TRBV7-1\*ap01\_T296C\_C314T



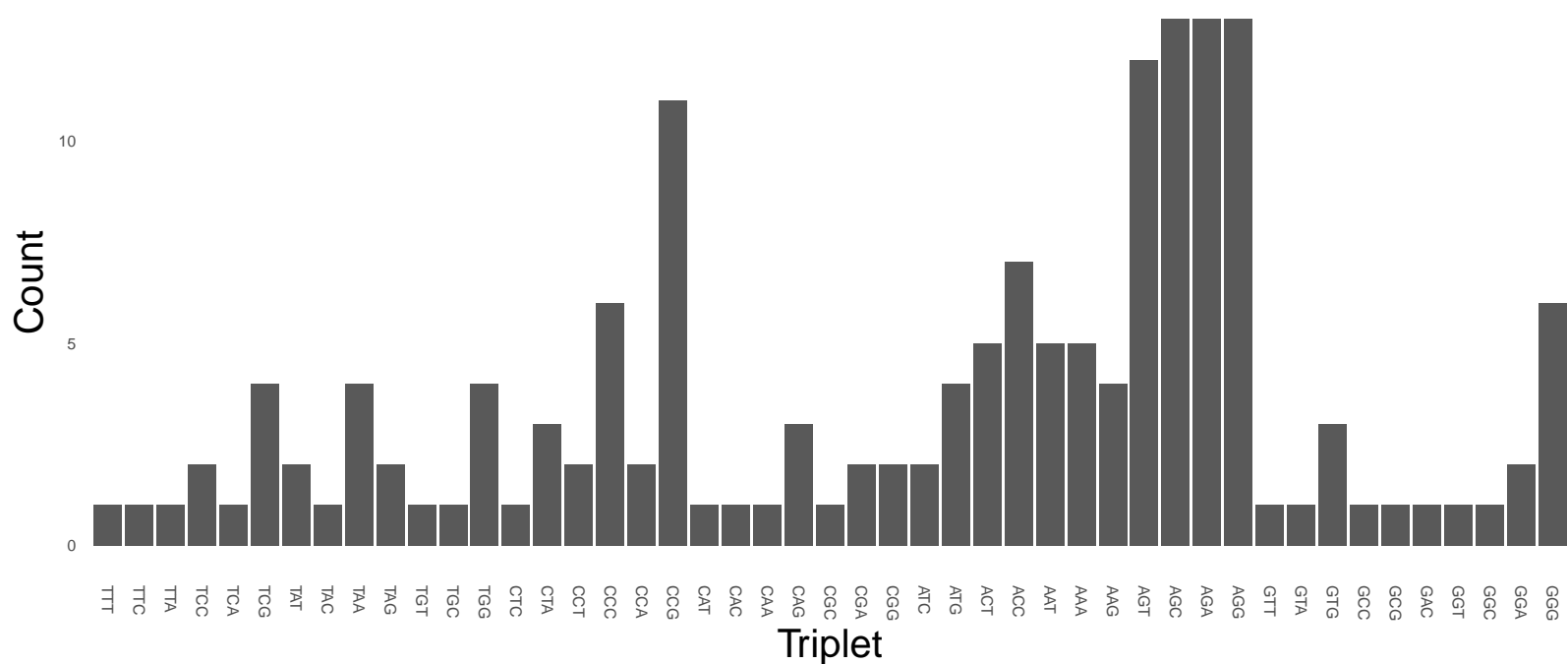
Gene TRBV7-1\*ap01\_T296C



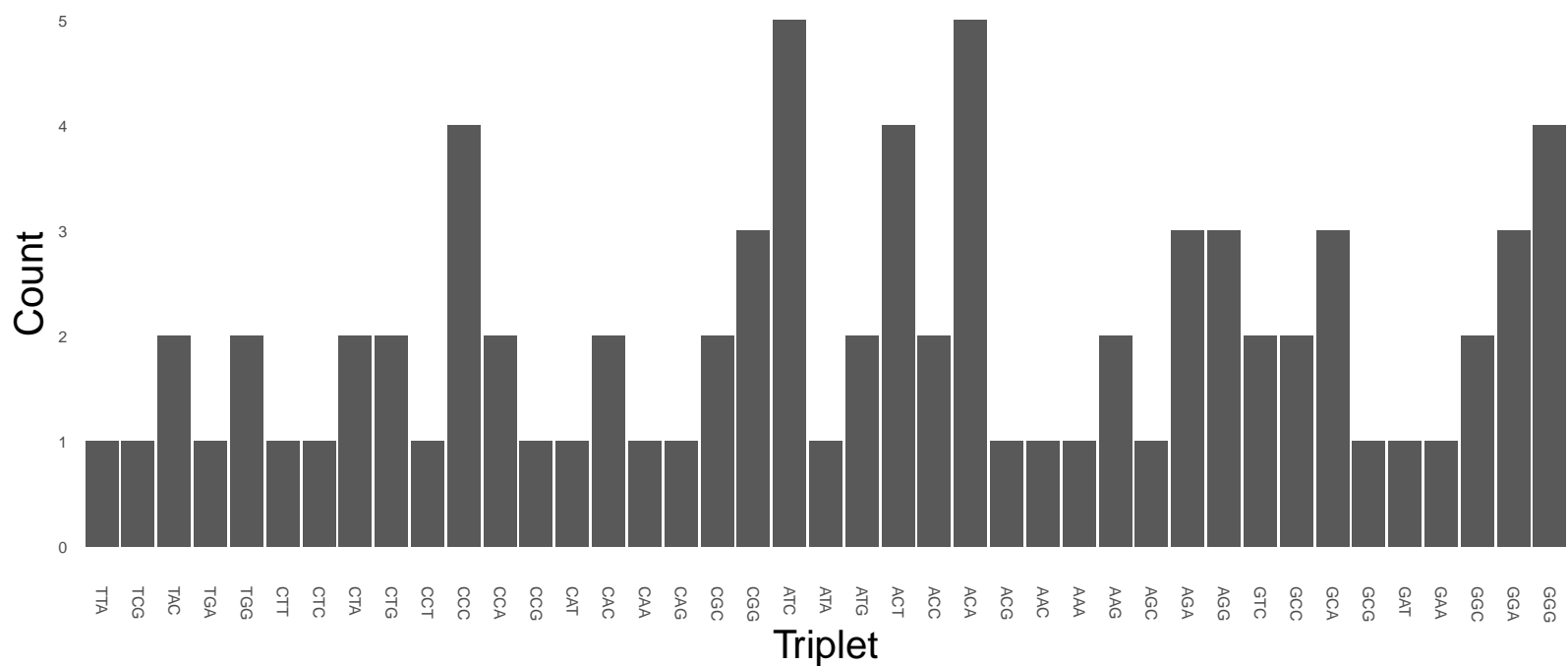
Gene TRBV7-7\*ap01\_C315T



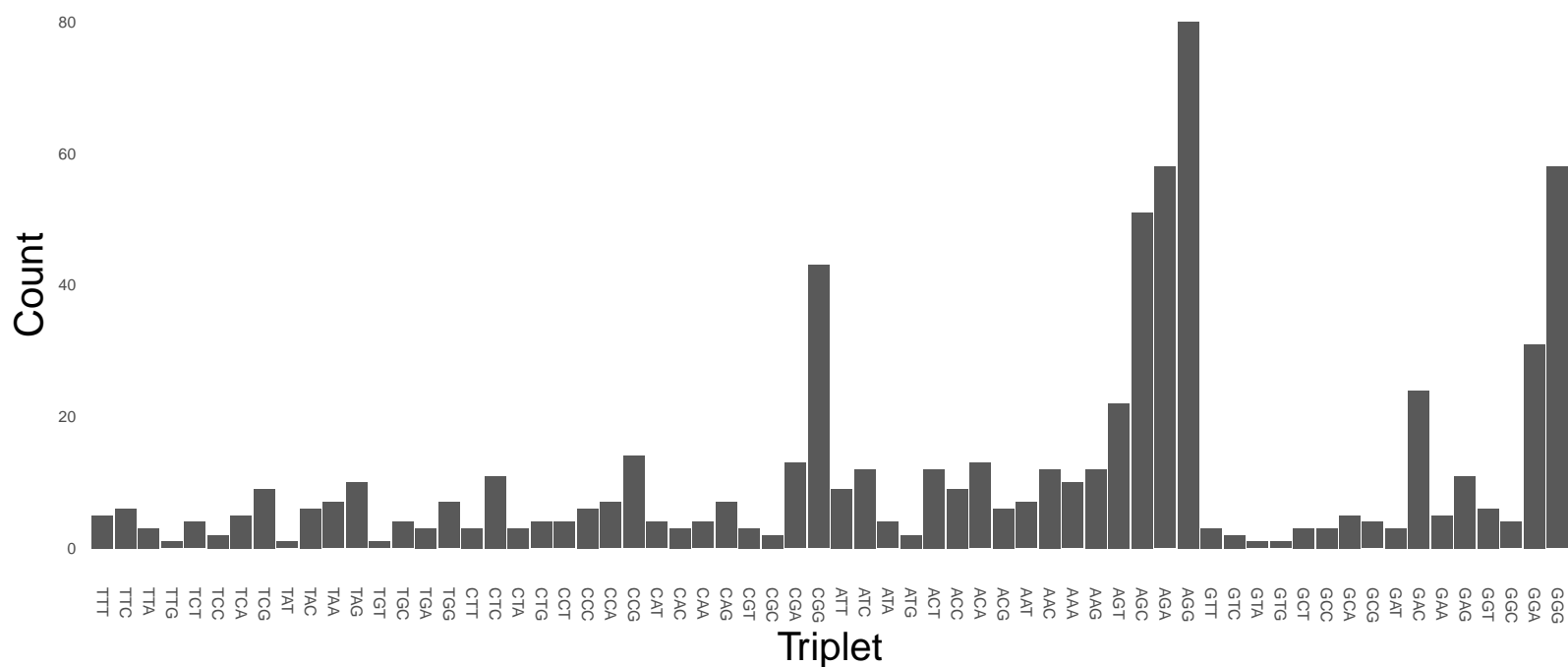
TRBV7-1\*ap01\_T296C- C314T- Final 3 nucleotides as a triplet



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

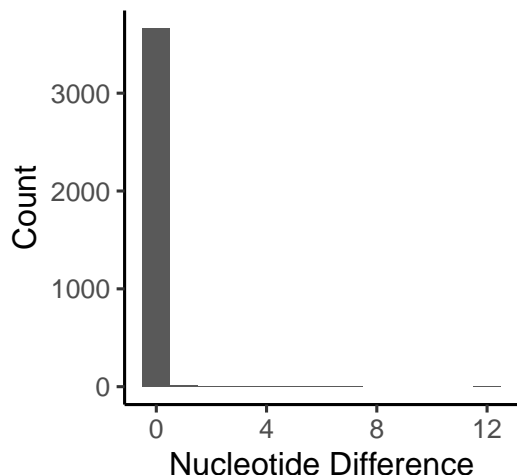


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



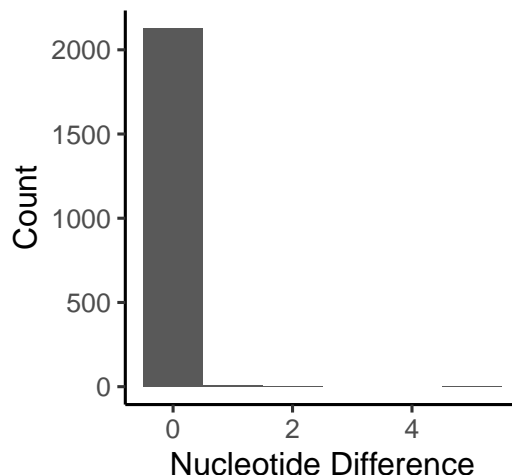
### TRBV10-1\*ap01

3690 sequences assigned  
3662 (99.2%) exact matches, in which:  
3573 unique CDR3  
13 unique J



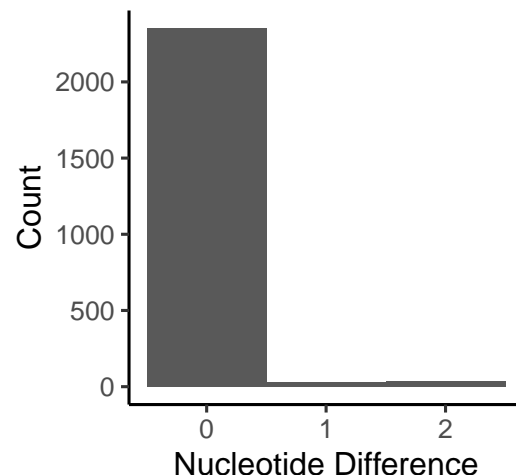
### TRBV10-2\*ap01

2140 sequences assigned  
2127 (99.4%) exact matches, in which:  
2088 unique CDR3  
13 unique J



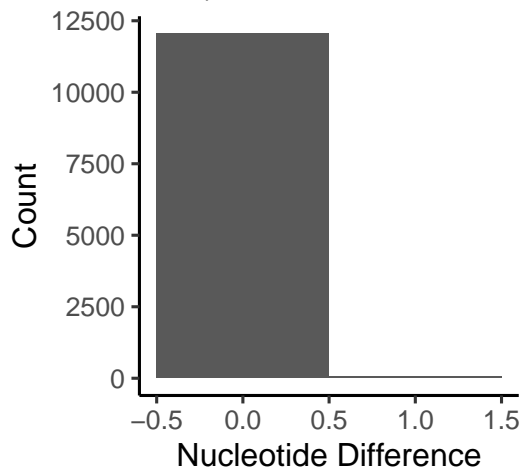
### TRBV13\*ap01

2415 sequences assigned  
2351 (97.3%) exact matches, in which:  
2262 unique CDR3  
13 unique J



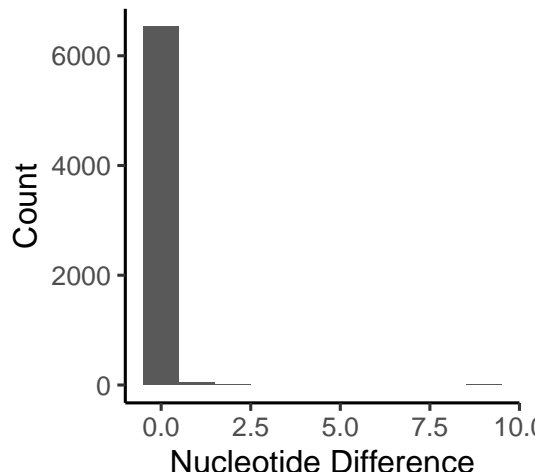
### TRBV20-1\*ap01

12114 sequences assigned  
12055 (99.5%) exact matches, in which:  
11957 unique CDR3  
13 unique J



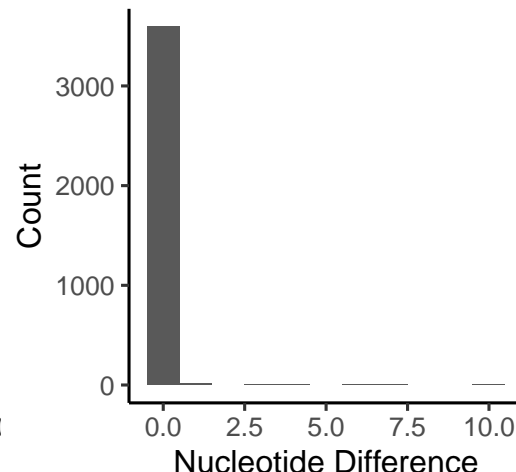
### TRBV10-3\*ap01

6580 sequences assigned  
6529 (99.2%) exact matches, in which:  
6385 unique CDR3  
13 unique J



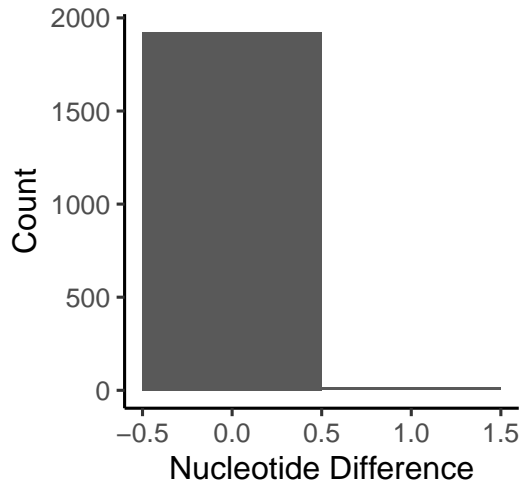
### TRBV14\*ap01

3618 sequences assigned  
3594 (99.3%) exact matches, in which:  
3532 unique CDR3  
13 unique J



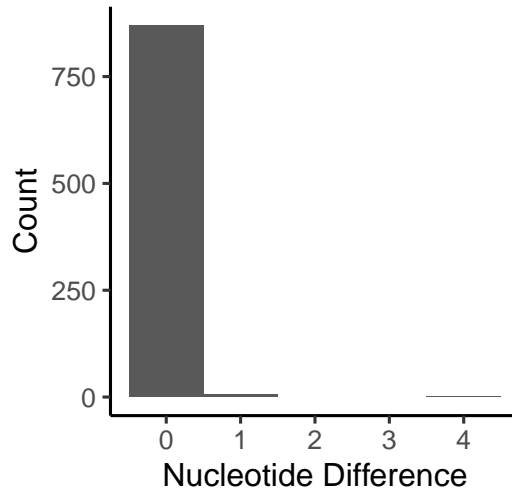
### TRBV20-1\*ap02

1939 sequences assigned  
1924 (99.2%) exact matches, in which:  
1908 unique CDR3  
13 unique J



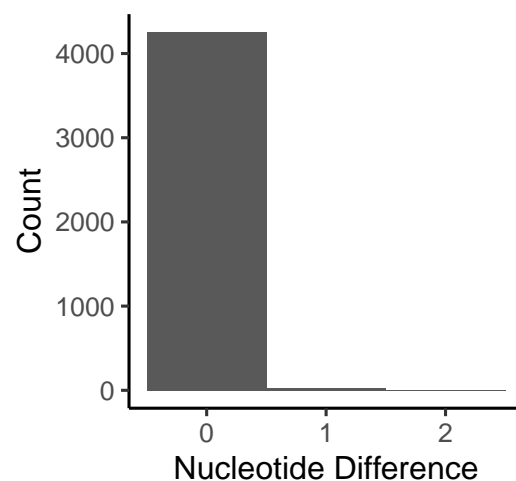
### TRBV1\*ap01

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



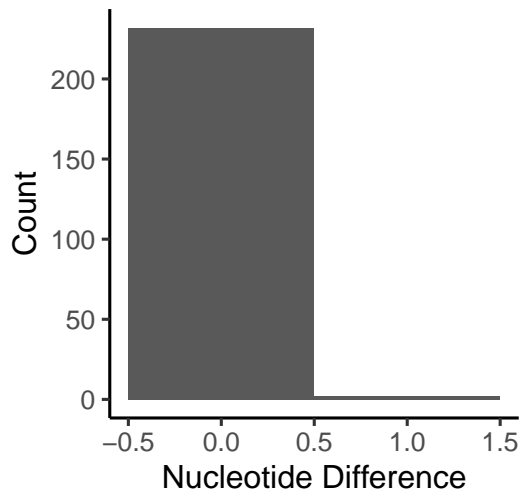
### TRBV15\*ap02

4282 sequences assigned  
4255 (99.4%) exact matches, in which:  
4132 unique CDR3  
13 unique J



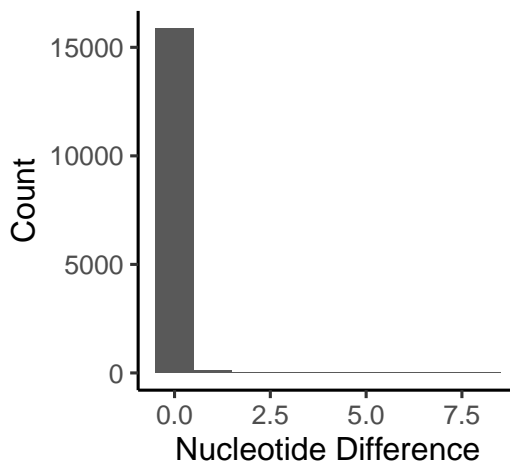
### TRBV16\*ap01

234 sequences assigned  
232 (99.1%) exact matches, in which:  
228 unique CDR3  
12 unique J



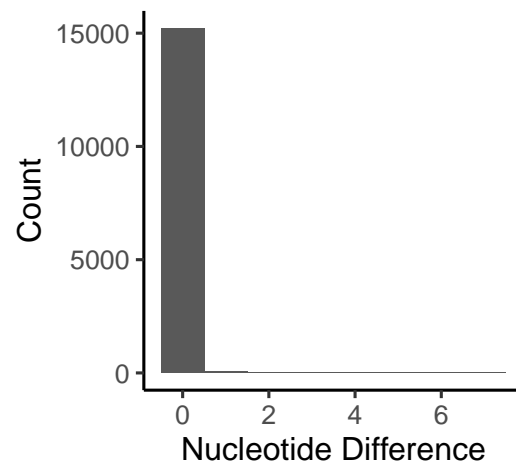
### TRBV19\*ap01

16001 sequences assigned  
15883 (99.3%) exact matches, in which:  
15759 unique CDR3  
13 unique J



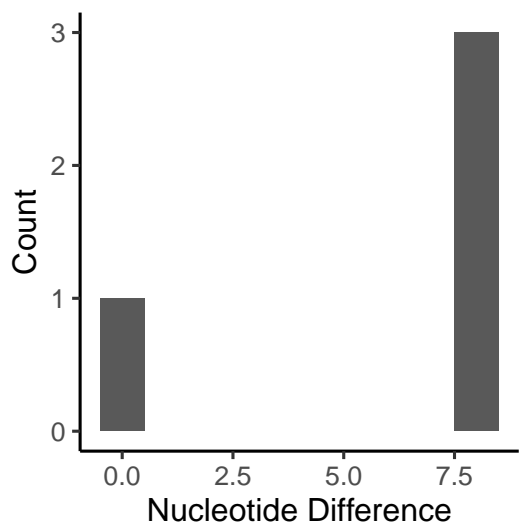
### TRBV28\*ap01

15317 sequences assigned  
15222 (99.4%) exact matches, in which:  
15010 unique CDR3  
13 unique J



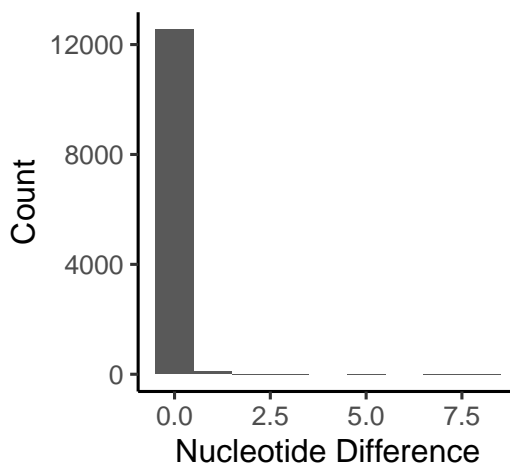
### TRBV17\*ap01

4 sequences assigned  
1 (25%) exact matches, in which:  
1 unique CDR3  
1 unique J



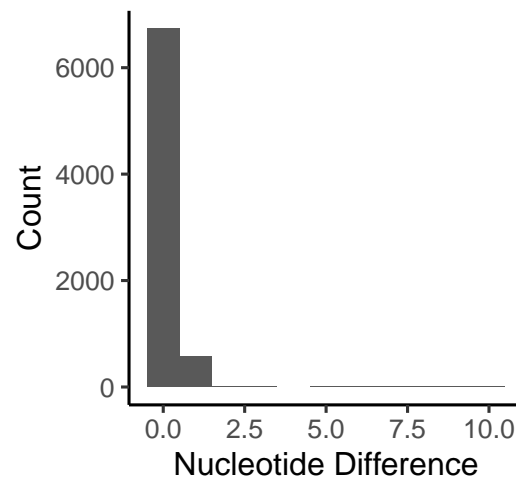
### TRBV2\*ap01

12658 sequences assigned  
12550 (99.1%) exact matches, in which:  
12208 unique CDR3  
13 unique J



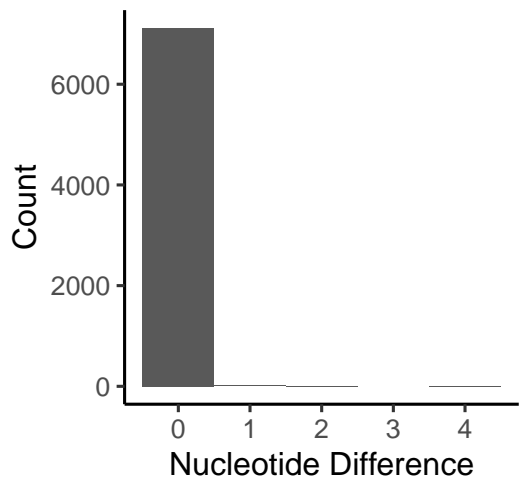
### TRBV30\*ap01

7329 sequences assigned  
6732 (91.9%) exact matches, in which:  
6400 unique CDR3  
13 unique J



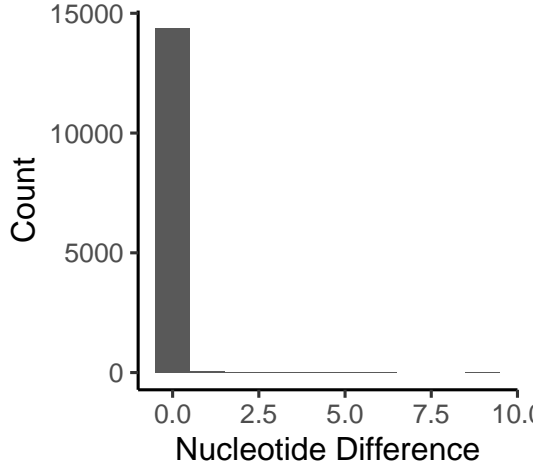
### TRBV18\*ap01

7135 sequences assigned  
7116 (99.7%) exact matches, in which:  
7038 unique CDR3  
13 unique J



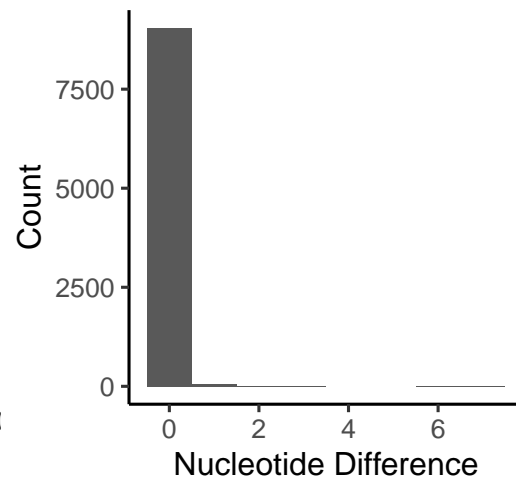
### TRBV27\*ap01

14486 sequences assigned  
14395 (99.4%) exact matches, in which:  
14162 unique CDR3  
13 unique J



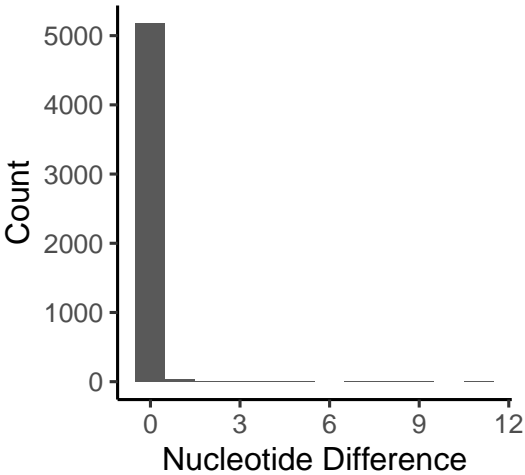
### TRBV9\*ap01

9105 sequences assigned  
9043 (99.3%) exact matches, in which:  
8958 unique CDR3  
13 unique J



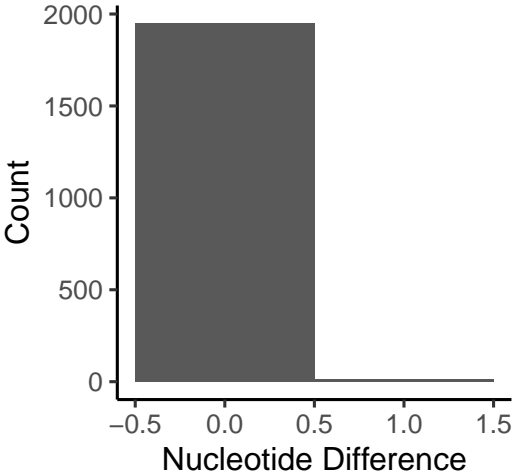
TRBV21-1\*ap01

5241 sequences assigned  
5177 (98.8%) exact matches, in which:  
5137 unique CDR3  
13 unique J



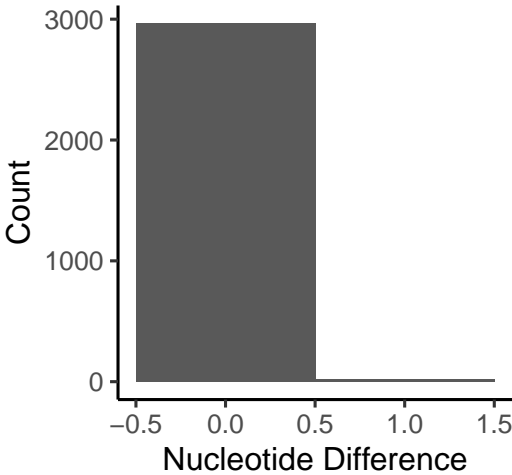
TRBV11-3\*ap01

1961 sequences assigned  
1949 (99.4%) exact matches, in which:  
1940 unique CDR3  
13 unique J



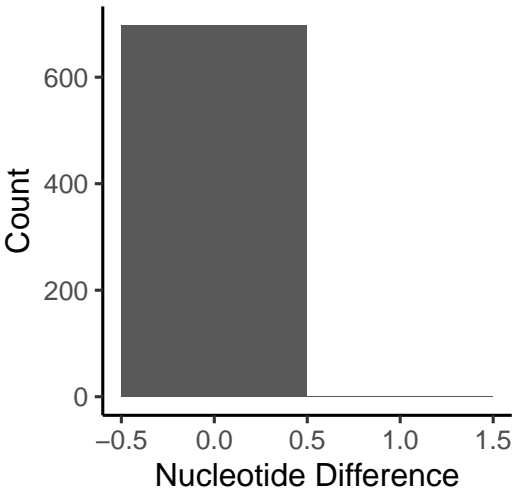
TRBV12-5\*ap01

2984 sequences assigned  
2965 (99.4%) exact matches, in which:  
2902 unique CDR3  
13 unique J



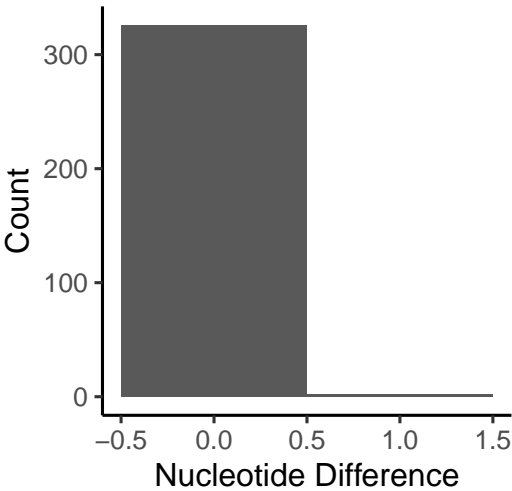
TRBV11-1\*ap01

699 sequences assigned  
698 (99.9%) exact matches, in which:  
692 unique CDR3  
13 unique J



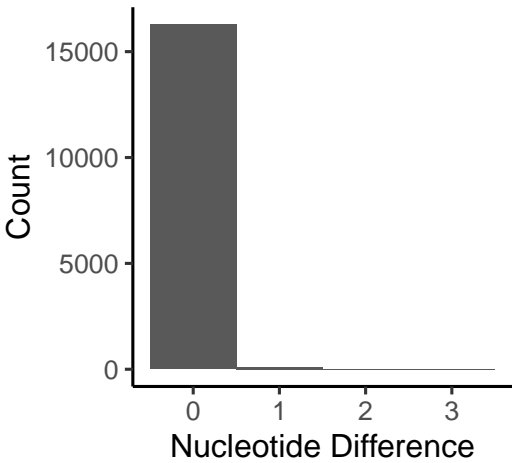
TRBV12-1\*ap01

328 sequences assigned  
326 (99.4%) exact matches, in which:  
321 unique CDR3  
13 unique J



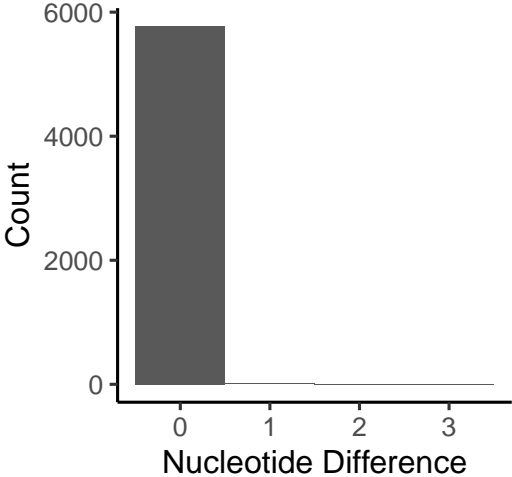
TRBV12-34\*ap01

16397 sequences assigned  
16283 (99.3%) exact matches, in which:  
15961 unique CDR3  
13 unique J



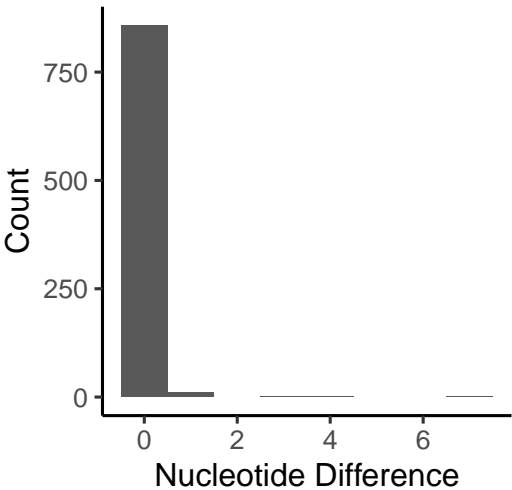
TRBV11-2\*ap01

5793 sequences assigned  
5776 (99.7%) exact matches, in which:  
5726 unique CDR3  
13 unique J



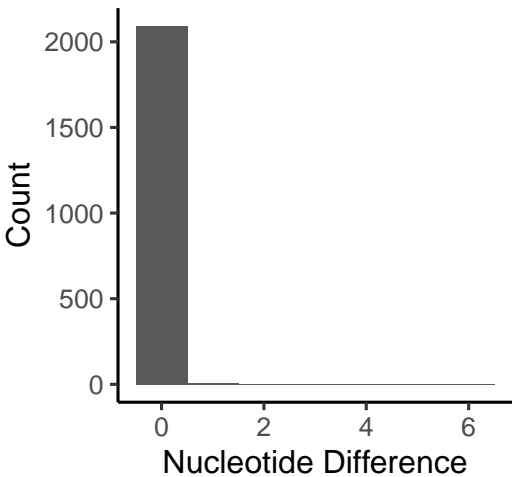
TRBV12-2\*ap01

872 sequences assigned  
858 (98.4%) exact matches, in which:  
836 unique CDR3  
13 unique J



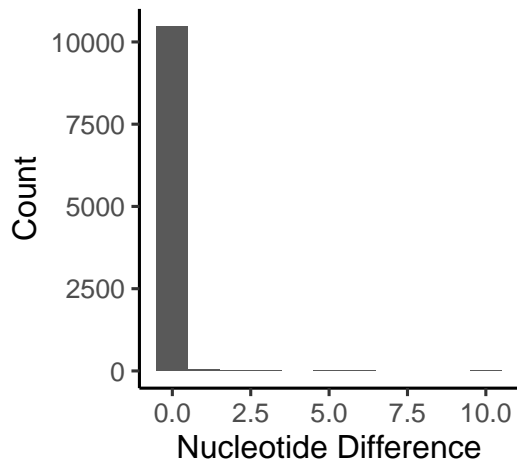
TRBV23-1\*ap01

2106 sequences assigned  
2092 (99.3%) exact matches, in which:  
2060 unique CDR3  
13 unique J



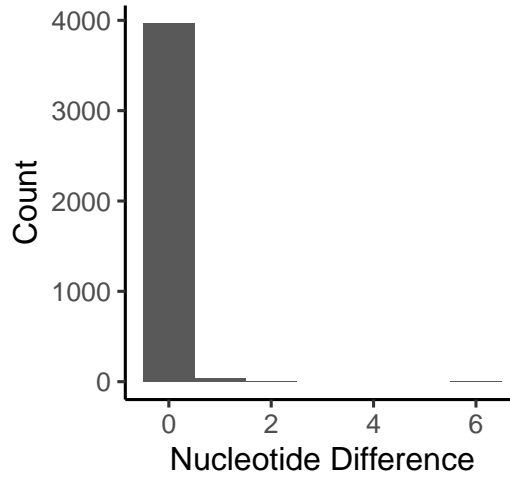
### TRBV3-12\*ap01

10541 sequences assigned  
10480 (99.4%) exact matches, in which:  
10336 unique CDR3  
14 unique J



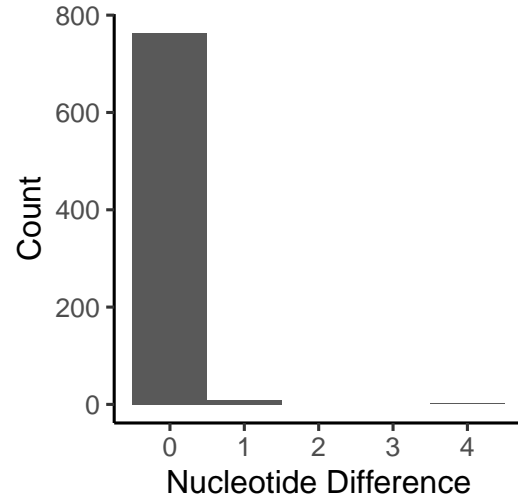
### TRBV4-2\*ap01

4011 sequences assigned  
3966 (98.9%) exact matches, in which:  
3850 unique CDR3  
13 unique J



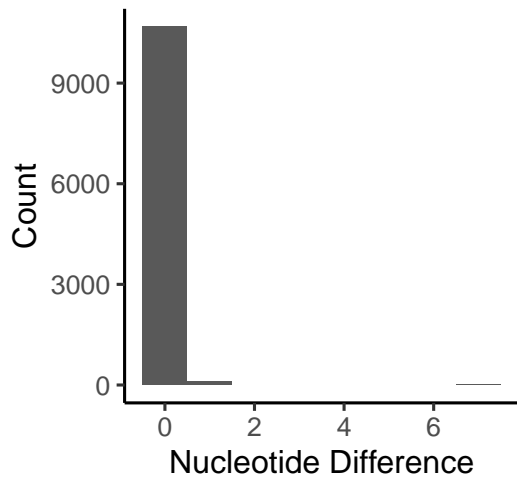
### TRBV5-3\*ap01

775 sequences assigned  
764 (98.6%) exact matches, in which:  
748 unique CDR3  
13 unique J



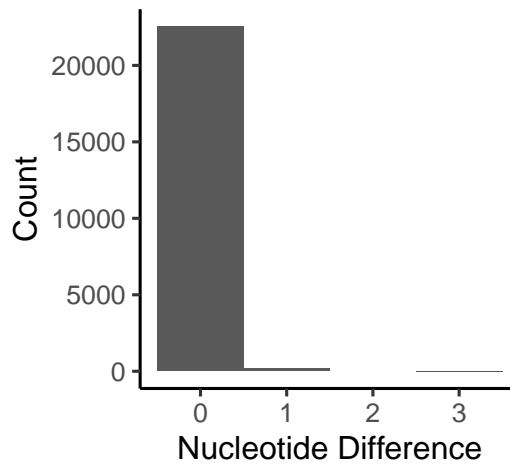
### TRBV4-1\*ap01

10776 sequences assigned  
10681 (99.1%) exact matches, in which:  
10369 unique CDR3  
13 unique J



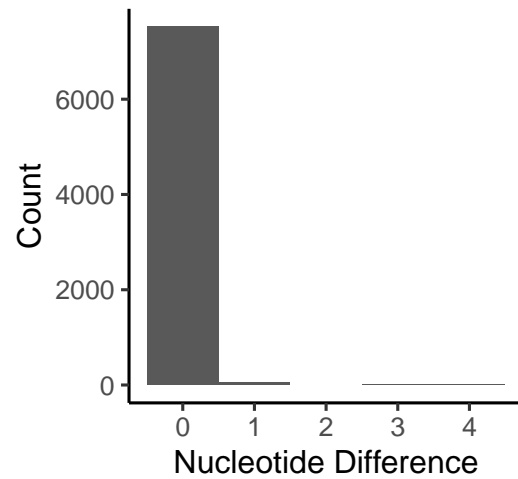
### TRBV5-1\*ap01

22722 sequences assigned  
22546 (99.2%) exact matches, in which:  
22017 unique CDR3  
13 unique J



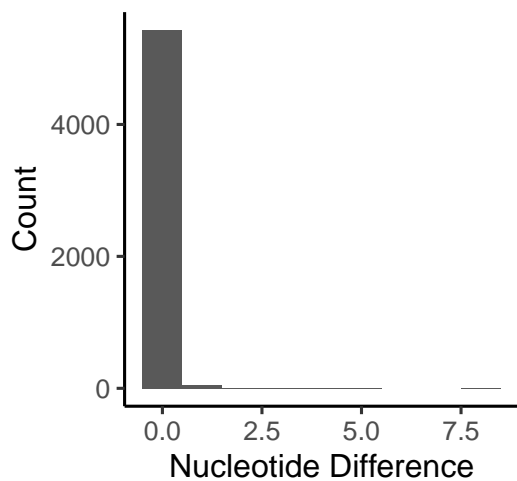
### TRBV5-4\*ap01

7579 sequences assigned  
7522 (99.2%) exact matches, in which:  
7339 unique CDR3  
13 unique J



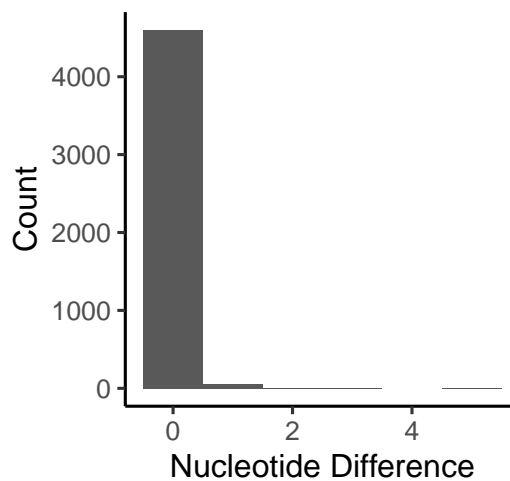
### TRBV24-1\*ap01

5488 sequences assigned  
5431 (99%) exact matches, in which:  
5292 unique CDR3  
13 unique J



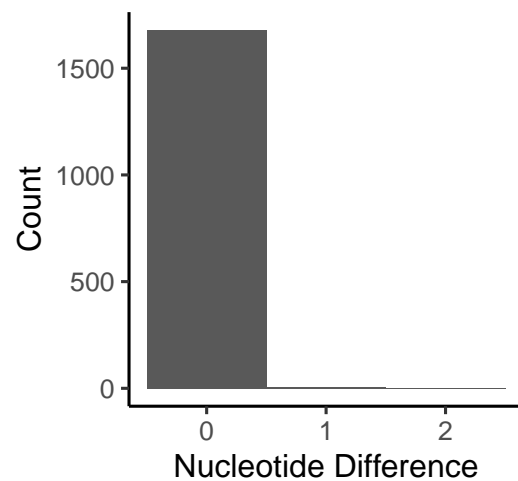
### TRBV25-1\*ap01

4663 sequences assigned  
4599 (98.6%) exact matches, in which:  
4419 unique CDR3  
13 unique J



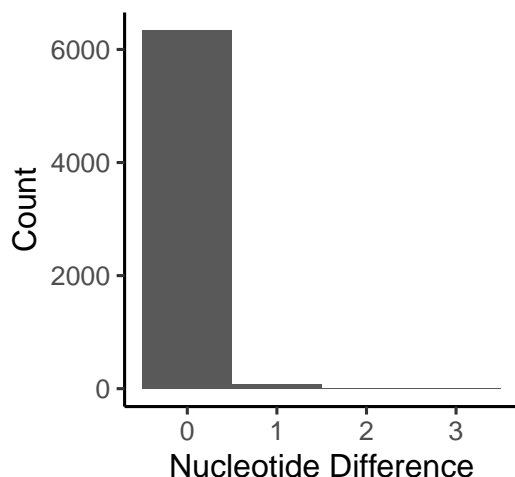
### TRBV5-5\*ap01

1687 sequences assigned  
1679 (99.5%) exact matches, in which:  
1677 unique CDR3  
13 unique J



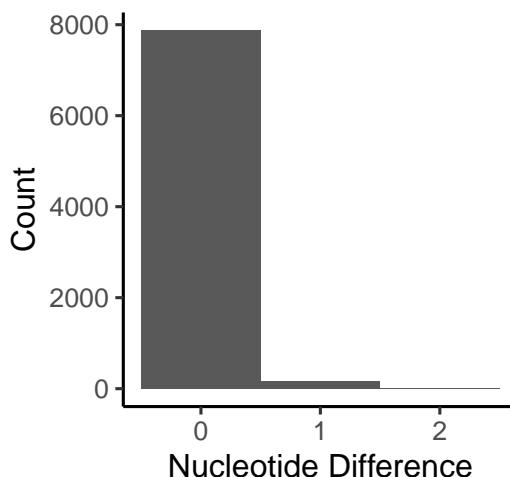
### TRBV5-6\*ap01

6426 sequences assigned  
6337 (98.6%) exact matches, in which:  
6065 unique CDR3  
13 unique J



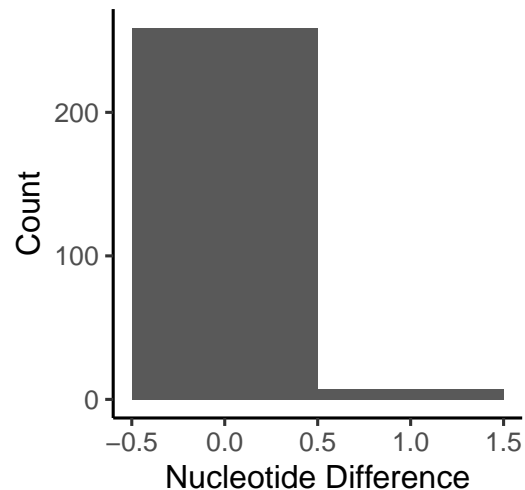
### TRBV6-1\*ap01

8044 sequences assigned  
7874 (97.9%) exact matches, in which:  
7629 unique CDR3  
13 unique J



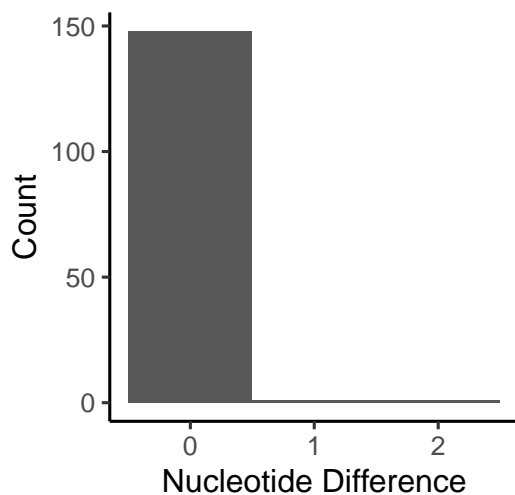
### TRBV6-8\*ap01

266 sequences assigned  
259 (97.4%) exact matches, in which:  
249 unique CDR3  
12 unique J



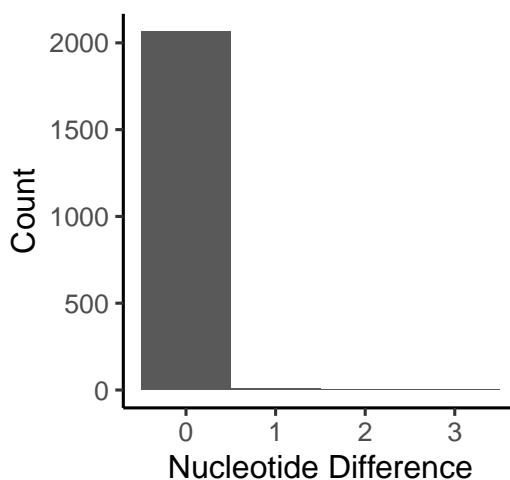
### TRBV5-7\*ap01

150 sequences assigned  
148 (98.7%) exact matches, in which:  
144 unique CDR3  
13 unique J



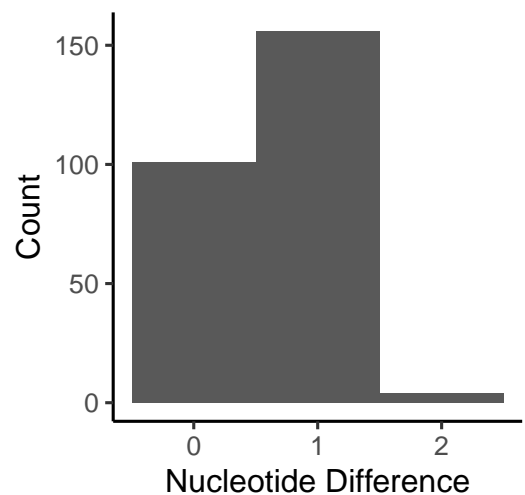
### TRBV6-4\*ap01

2079 sequences assigned  
2064 (99.3%) exact matches, in which:  
2028 unique CDR3  
13 unique J



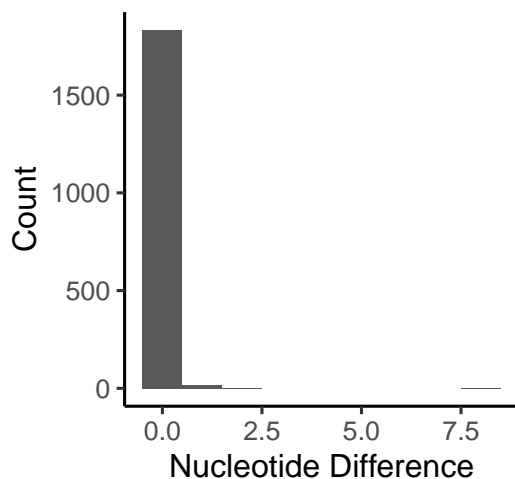
### TRBV6-9\*ap01

261 sequences assigned  
101 (38.7%) exact matches, in which:  
94 unique CDR3  
12 unique J



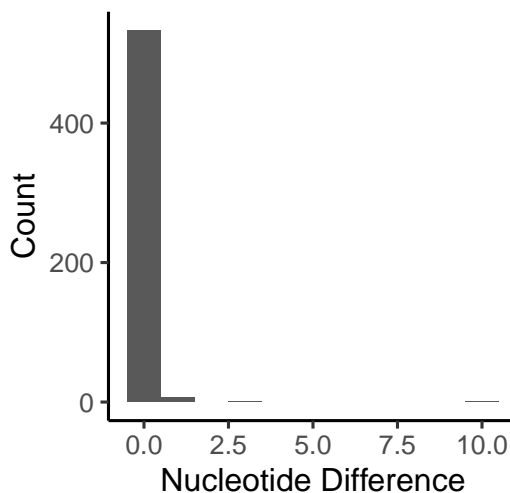
### TRBV5-8\*ap01

1853 sequences assigned  
1833 (98.9%) exact matches, in which:  
1792 unique CDR3  
13 unique J



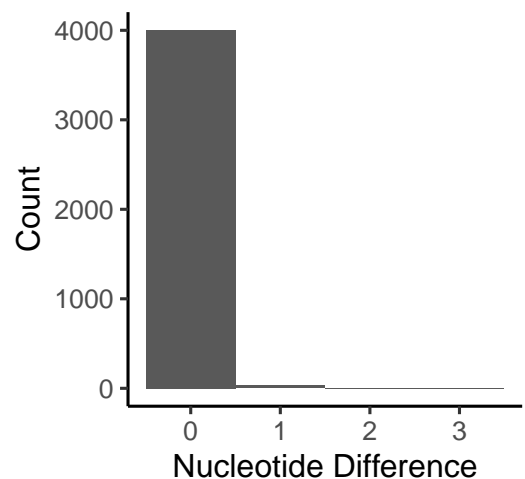
### TRBV6-7\*ap01

541 sequences assigned  
533 (98.5%) exact matches, in which:  
513 unique CDR3  
13 unique J



### TRBV6-23\*ap01

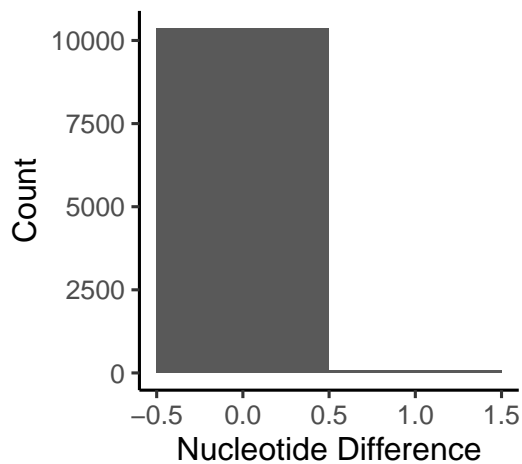
4039 sequences assigned  
4003 (99.1%) exact matches, in which:  
3849 unique CDR3  
13 unique J





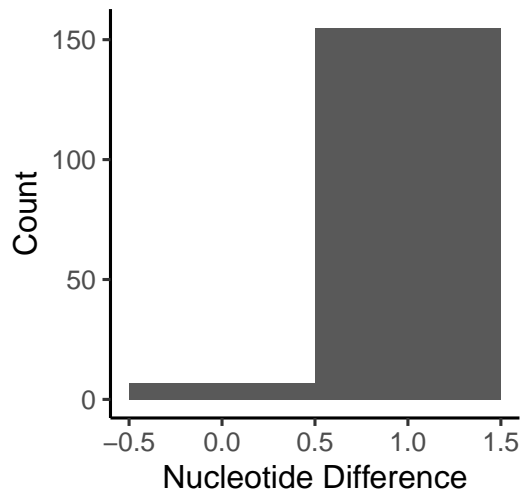
### TRBV6-56\*ap01

10460 sequences assigned  
10371 (99.1%) exact matches, in which:  
9998 unique CDR3  
13 unique J



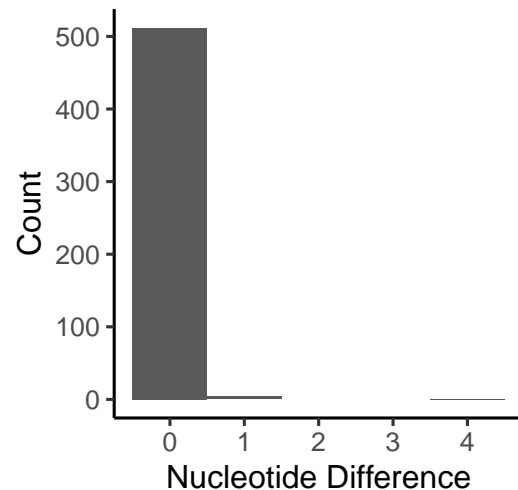
### TRBV7-1\*ap01\_T296C\_()

162 sequences assigned  
7 (4.3%) exact matches, in which:  
7 unique CDR3  
5 unique J



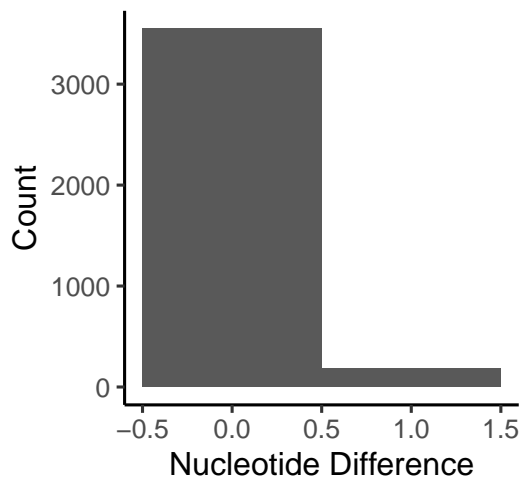
### TRBV7-3\*ap03

517 sequences assigned  
512 (99%) exact matches, in which:  
503 unique CDR3  
13 unique J



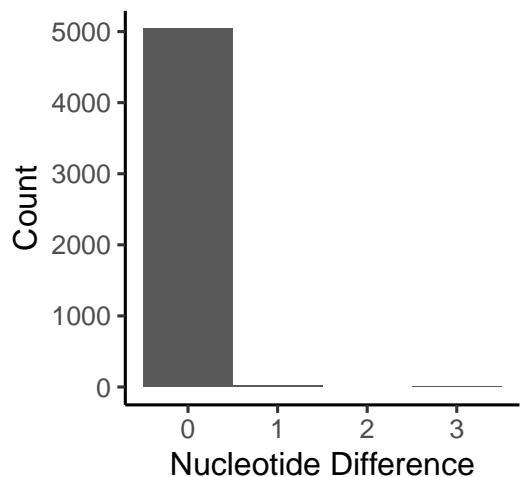
### TRBV6-56\*ap02

3728 sequences assigned  
3549 (95.2%) exact matches, in which:  
3418 unique CDR3  
13 unique J



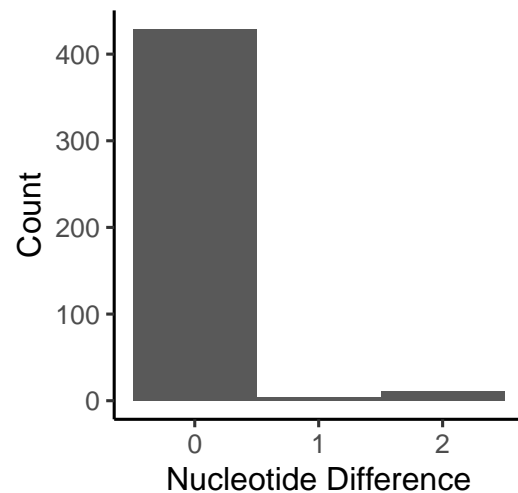
### TRBV7-2\*ap01

5059 sequences assigned  
5040 (99.6%) exact matches, in which:  
4953 unique CDR3  
13 unique J



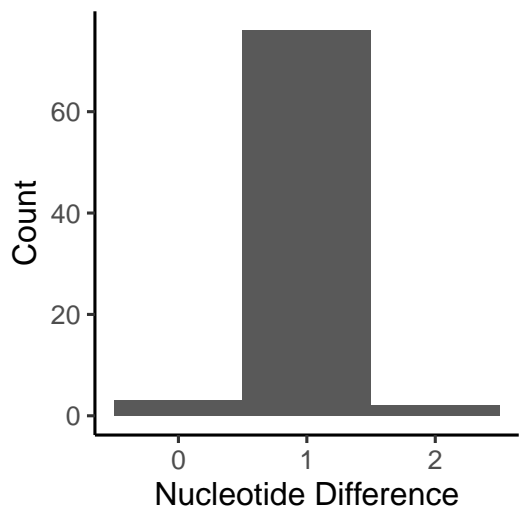
### TRBV7-4\*ap01

444 sequences assigned  
429 (96.6%) exact matches, in which:  
415 unique CDR3  
13 unique J



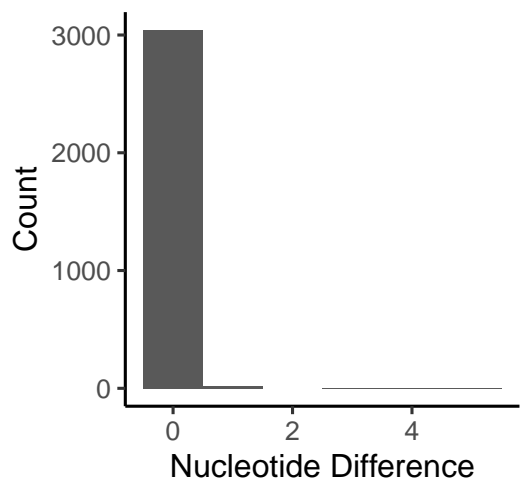
### TRBV7-1\*ap01\_T296C

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



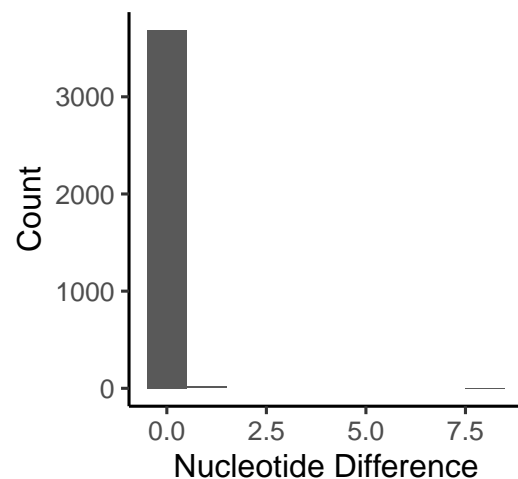
### TRBV7-3\*ap01

3066 sequences assigned  
3042 (99.2%) exact matches, in which:  
3018 unique CDR3  
13 unique J



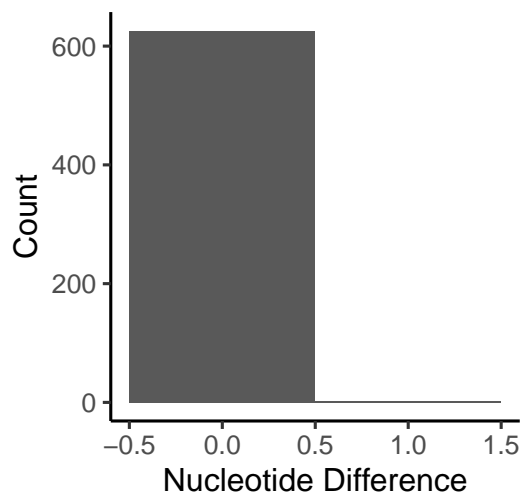
### TRBV7-6\*ap01

3705 sequences assigned  
3687 (99.5%) exact matches, in which:  
3607 unique CDR3  
13 unique J



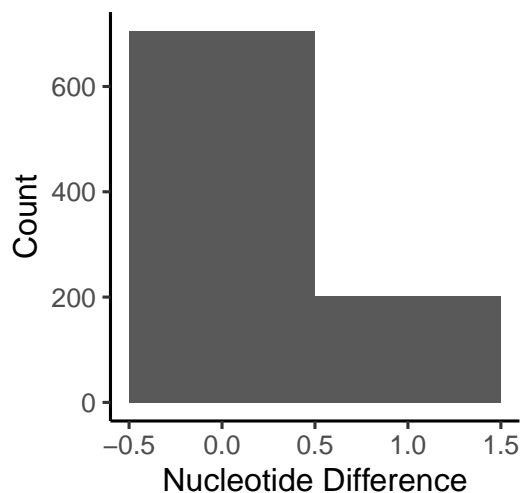
### TRBV7-7\*ap01

629 sequences assigned  
626 (99.5%) exact matches, in which:  
619 unique CDR3  
13 unique J



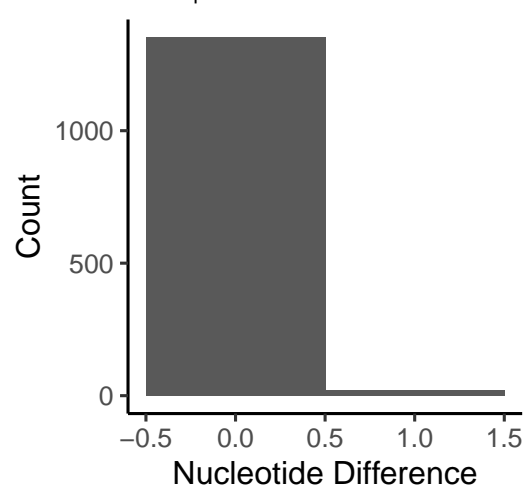
### TRBV7-8\*ap03

908 sequences assigned  
706 (77.8%) exact matches, in which:  
689 unique CDR3  
13 unique J



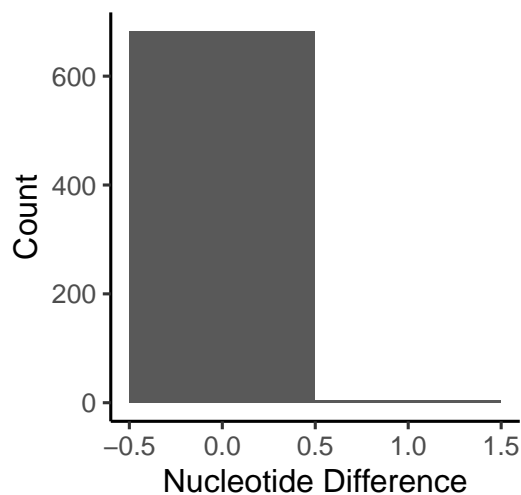
### TRBV29-1\*ap02

1372 sequences assigned  
1352 (98.5%) exact matches, in which:  
1271 unique CDR3  
13 unique J



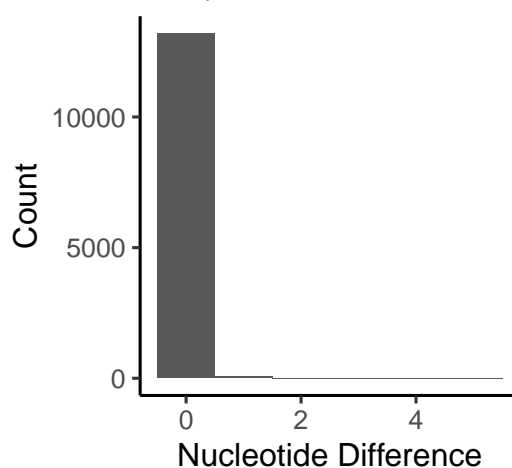
### TRBV7-7\*ap01\_C315T

688 sequences assigned  
683 (99.3%) exact matches, in which:  
669 unique CDR3  
13 unique J



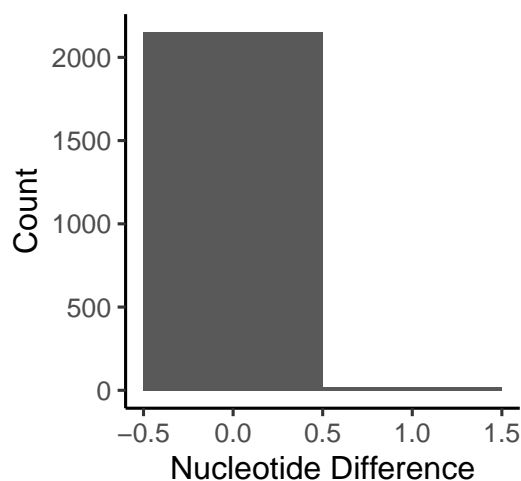
### TRBV7-9\*ap01

13275 sequences assigned  
13196 (99.4%) exact matches, in which:  
12967 unique CDR3  
13 unique J



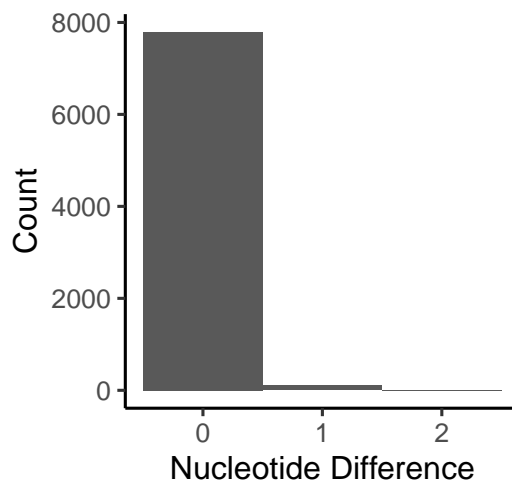
### TRBV7-8\*ap01

2171 sequences assigned  
2152 (99.1%) exact matches, in which:  
2119 unique CDR3  
13 unique J

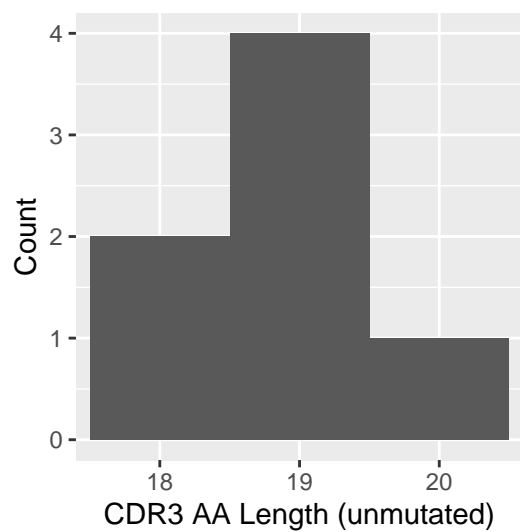


### TRBV29-1\*ap01

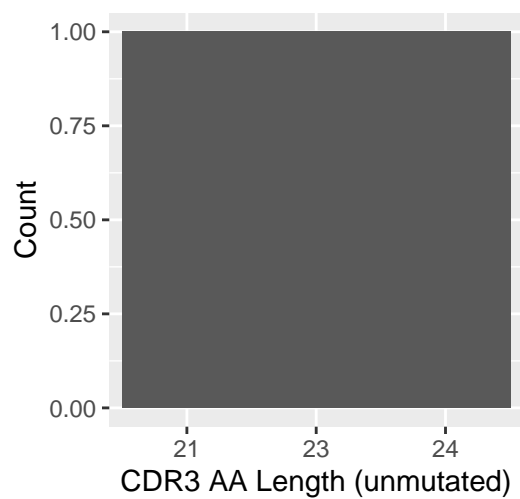
7897 sequences assigned  
7791 (98.7%) exact matches, in which:  
7400 unique CDR3  
13 unique J



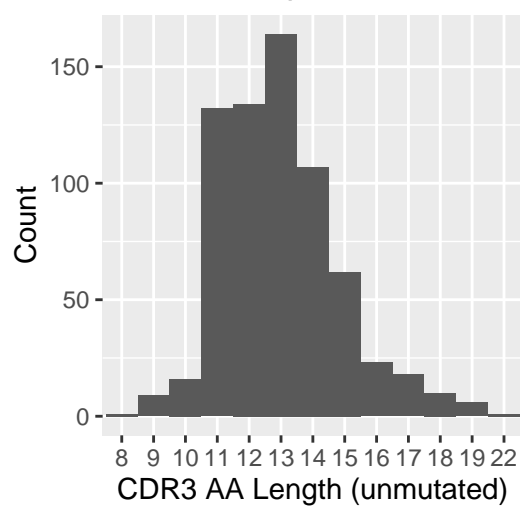
TRBV7-1\*ap01\_T296C\_C314T



TRBV7-1\*ap01\_T296C



TRBV7-7\*ap01\_C315T





Warning – no inferred sequences found.

Warning – no inferred sequences found.