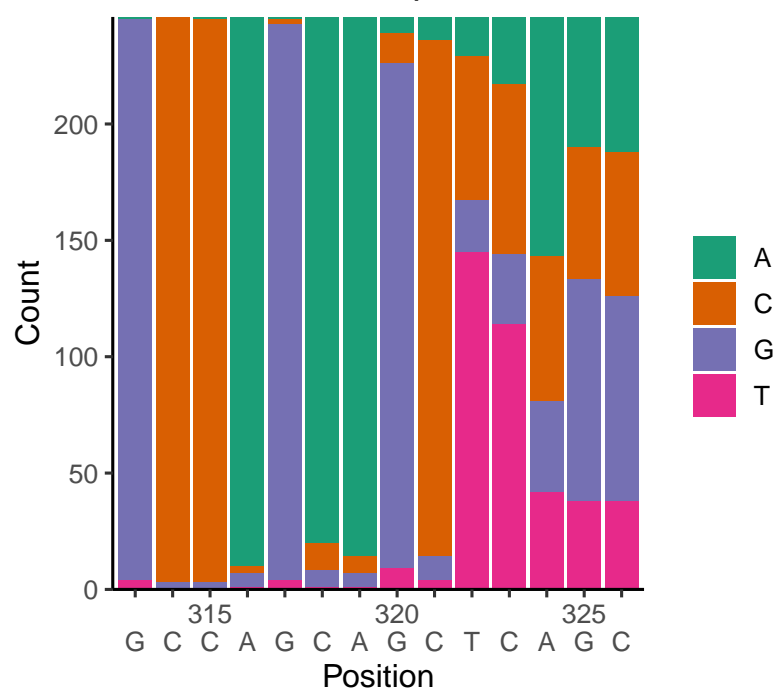
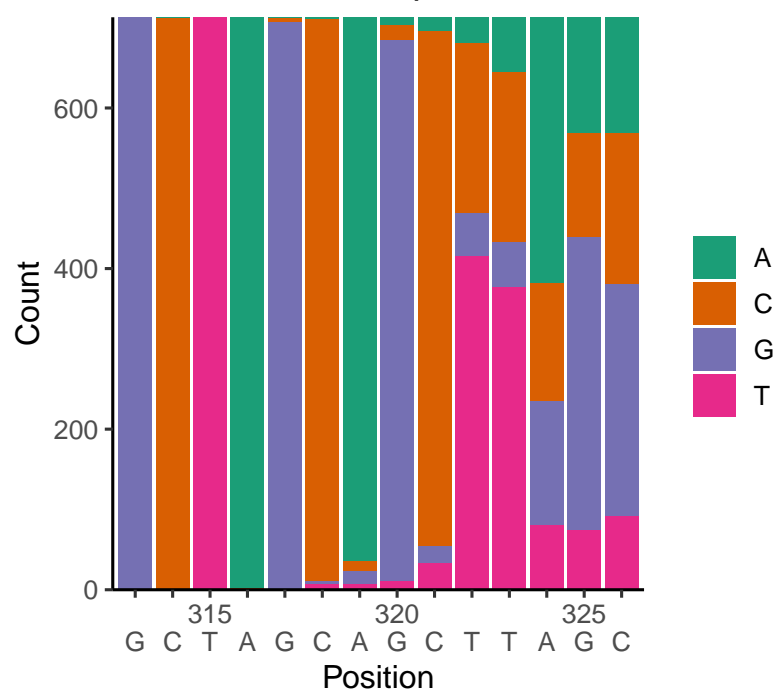


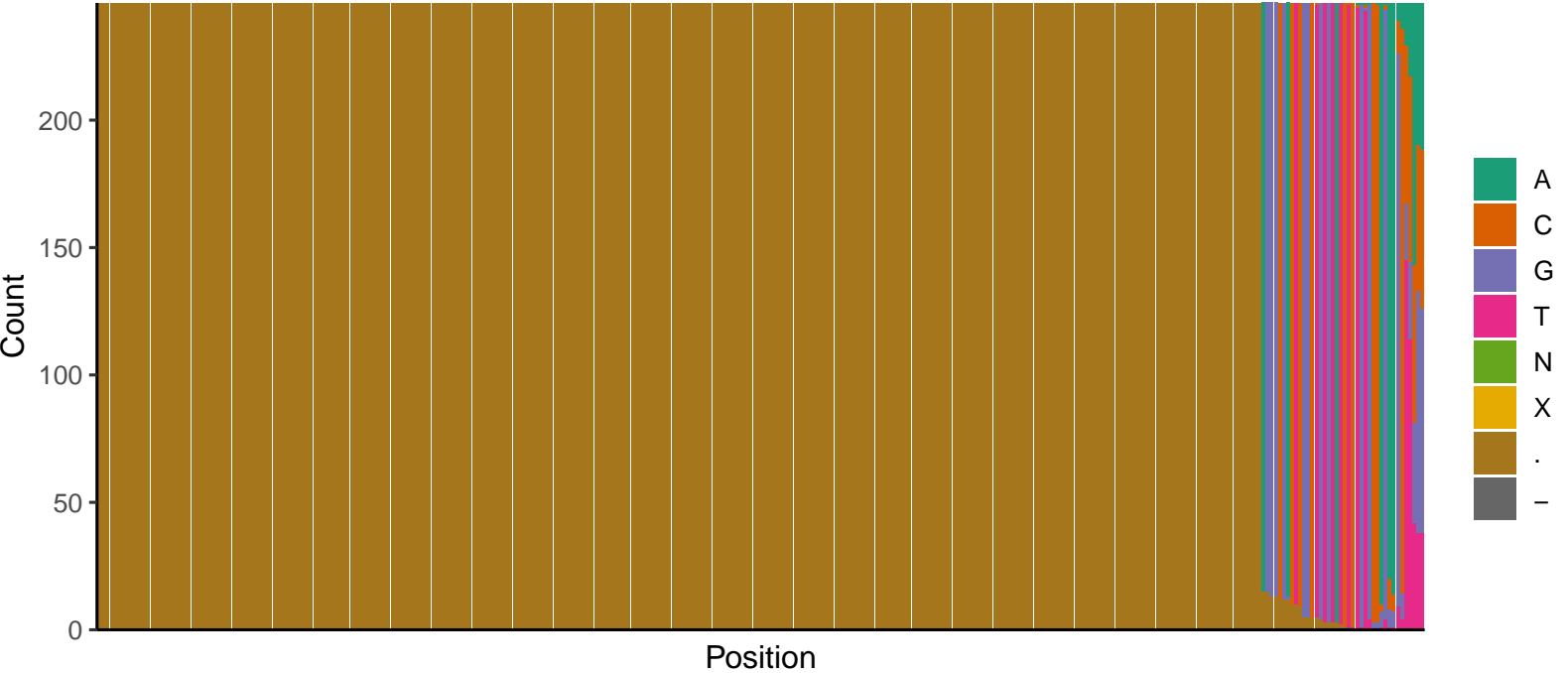
Gene TRBV7-1\*ap01\_G291C\_T296C



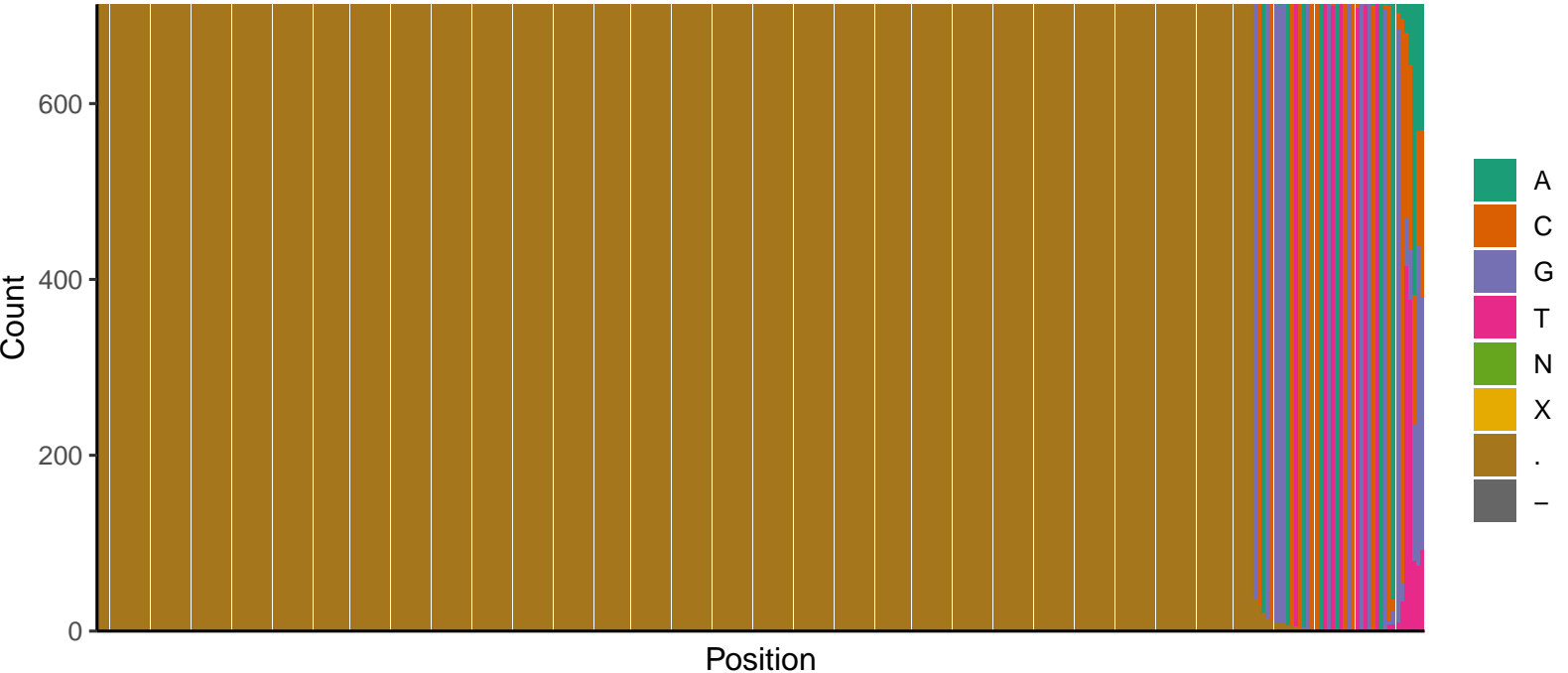
Gene TRBV7-7\*ap01\_C315T



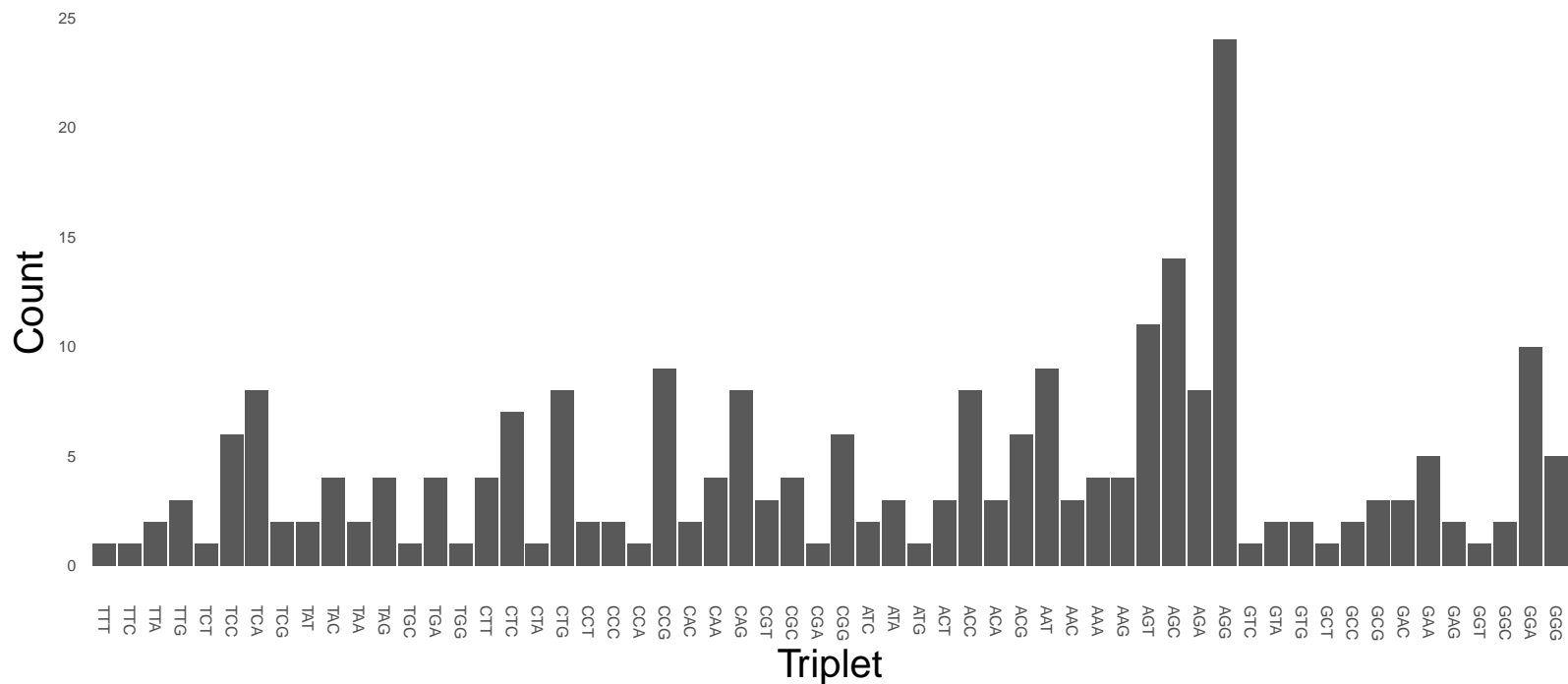
Gene TRBV7-1\*ap01\_G291C\_T296C



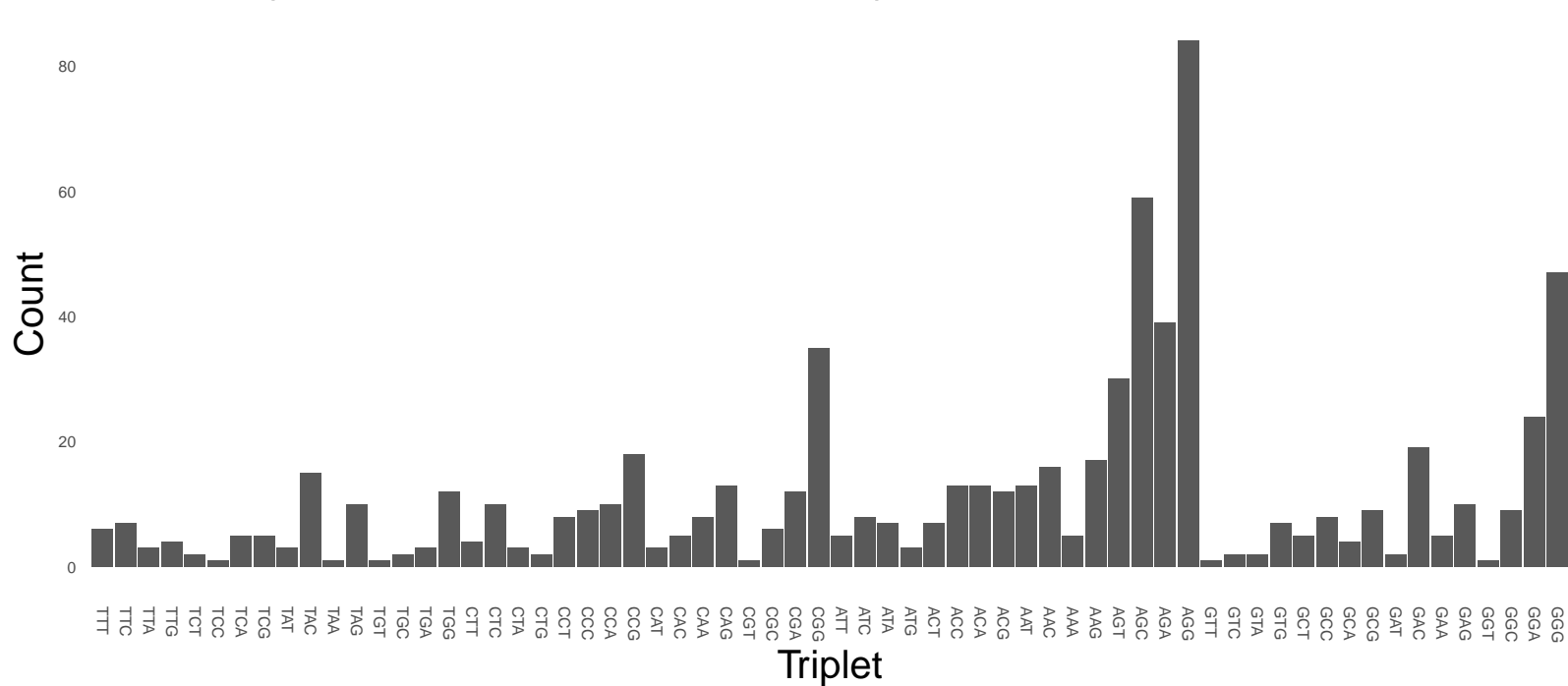
Gene TRBV7-7\*ap01\_C315T



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

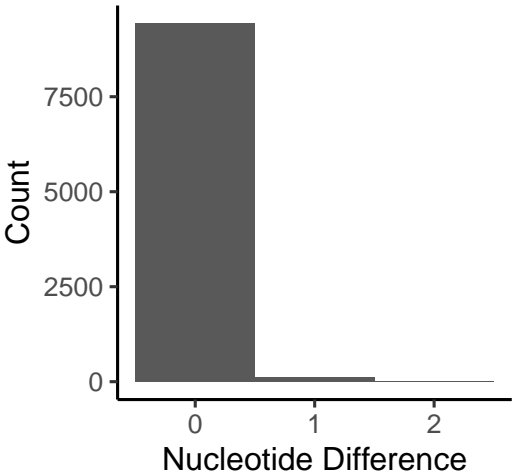


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



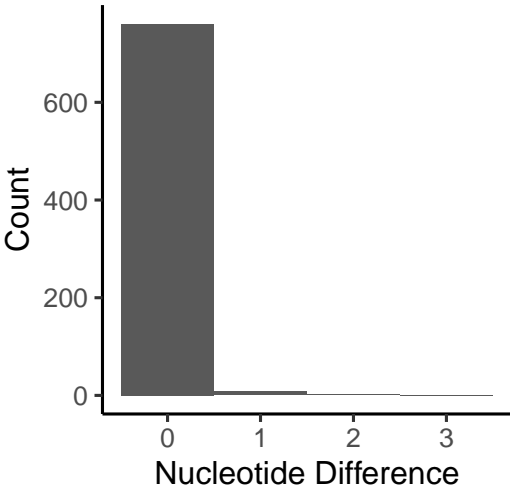
TRBV20-1\*ap01

9537 sequences assigned  
9429 (98.9%) exact matches, in which:  
9311 unique CDR3  
13 unique J



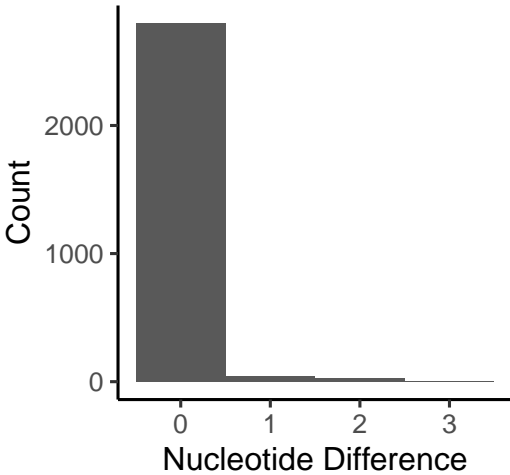
TRBV10-2\*ap01

772 sequences assigned  
761 (98.6%) exact matches, in which:  
750 unique CDR3  
13 unique J



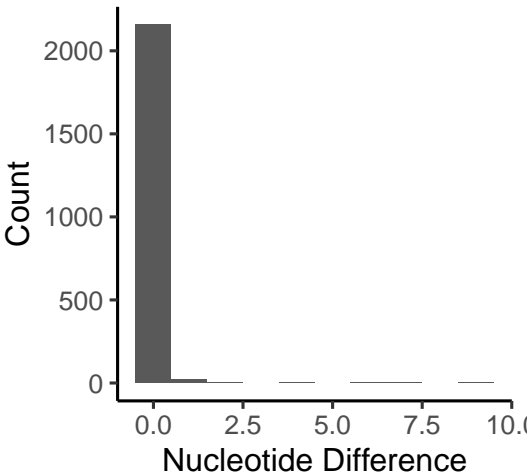
TRBV13\*ap01

2872 sequences assigned  
2797 (97.4%) exact matches, in which:  
2739 unique CDR3  
13 unique J



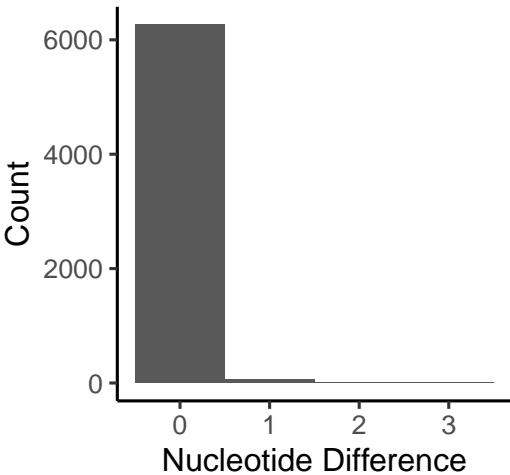
TRBV10-1\*ap01

2185 sequences assigned  
2157 (98.7%) exact matches, in which:  
2110 unique CDR3  
13 unique J



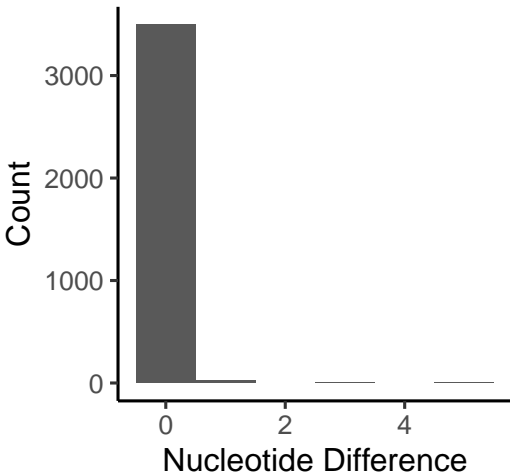
TRBV10-3\*ap01

6338 sequences assigned  
6264 (98.8%) exact matches, in which:  
6169 unique CDR3  
13 unique J



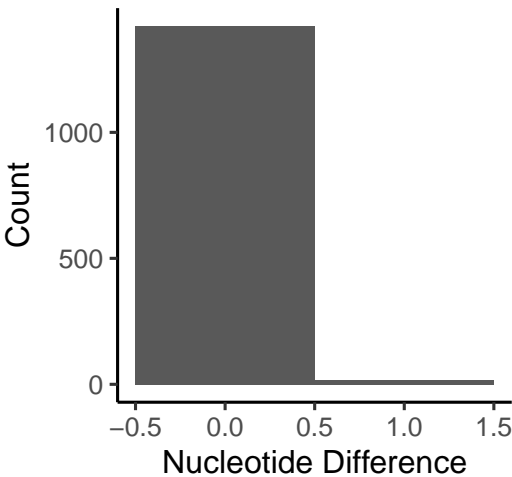
TRBV14\*ap01

3518 sequences assigned  
3496 (99.4%) exact matches, in which:  
3442 unique CDR3  
13 unique J



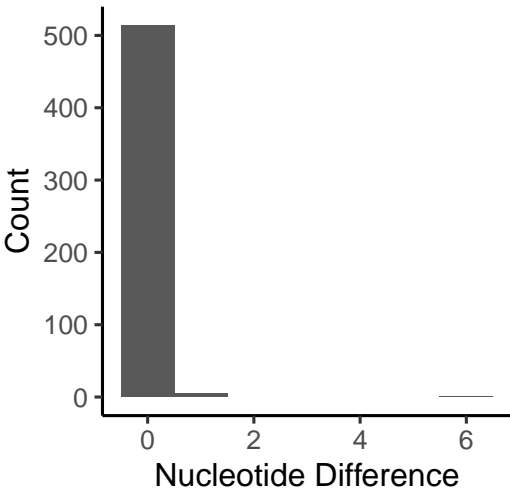
TRBV20-1\*ap02

1438 sequences assigned  
1422 (98.9%) exact matches, in which:  
1405 unique CDR3  
13 unique J



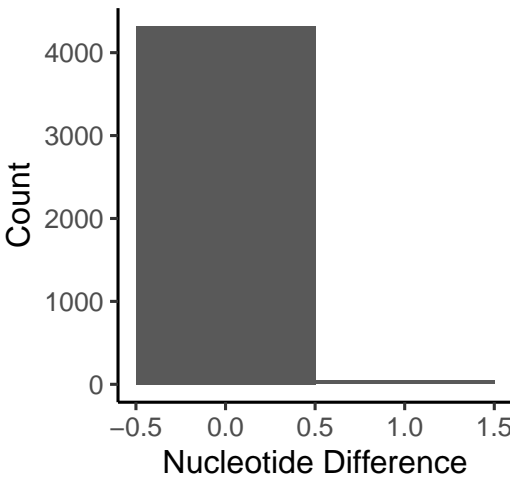
TRBV1\*ap01

520 sequences assigned  
514 (98.8%) exact matches, in which:  
508 unique CDR3  
13 unique J



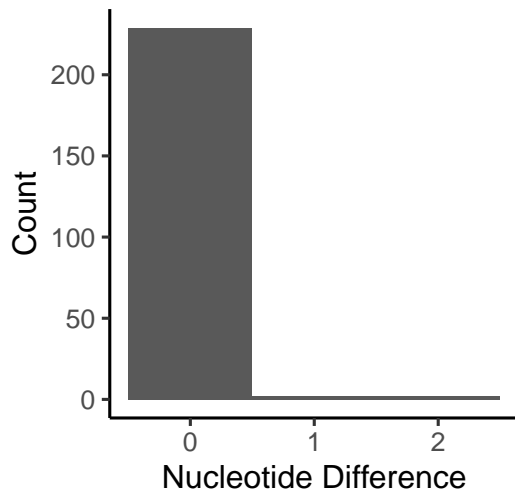
TRBV15\*ap02

4368 sequences assigned  
4321 (98.9%) exact matches, in which:  
4245 unique CDR3  
13 unique J



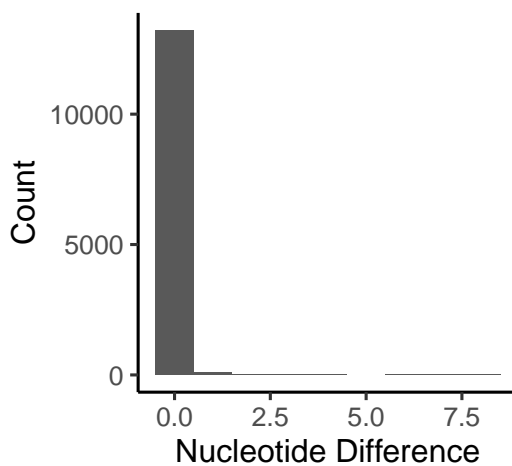
### TRBV16\*ap01

233 sequences assigned  
229 (98.3%) exact matches, in which:  
226 unique CDR3  
13 unique J



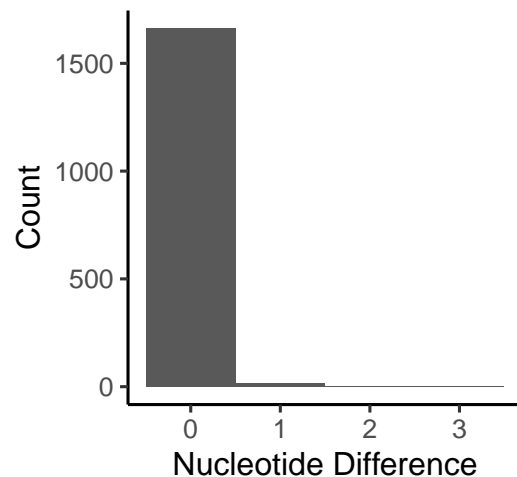
### TRBV19\*ap01

13345 sequences assigned  
13221 (99.1%) exact matches, in which:  
13133 unique CDR3  
13 unique J



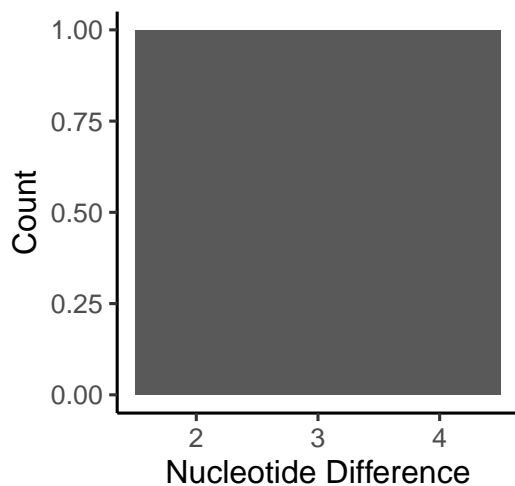
### TRBV28\*ap01

1680 sequences assigned  
1662 (98.9%) exact matches, in which:  
1640 unique CDR3  
13 unique J



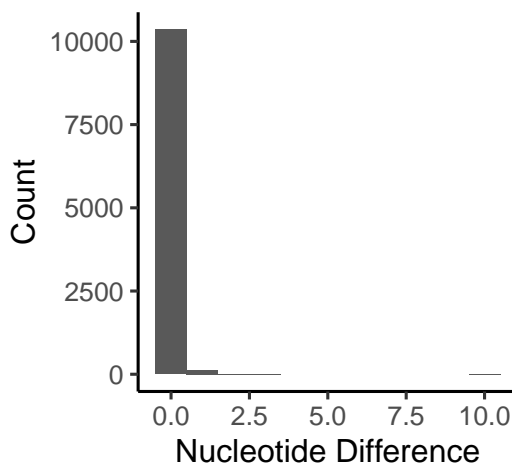
### TRBV17\*ap01

3 sequences assigned  
No exact matches.



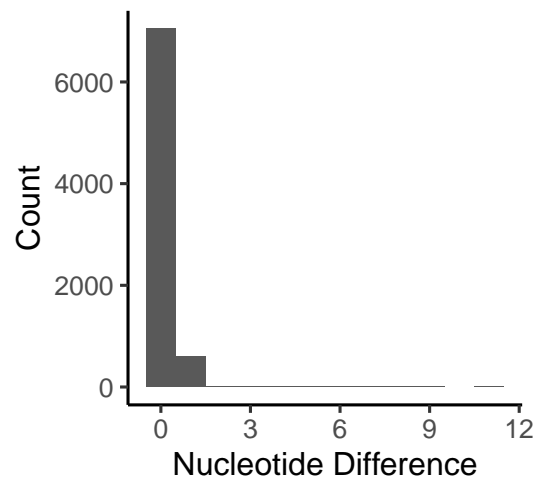
### TRBV2\*ap01

10499 sequences assigned  
10358 (98.7%) exact matches, in which:  
10184 unique CDR3  
13 unique J



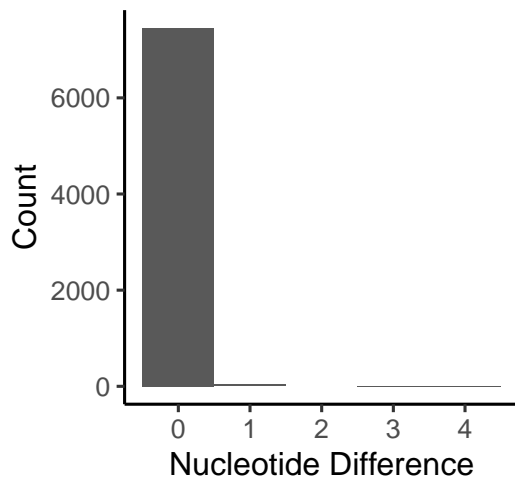
### TRBV30\*ap01

7673 sequences assigned  
7047 (91.8%) exact matches, in which:  
6956 unique CDR3  
13 unique J



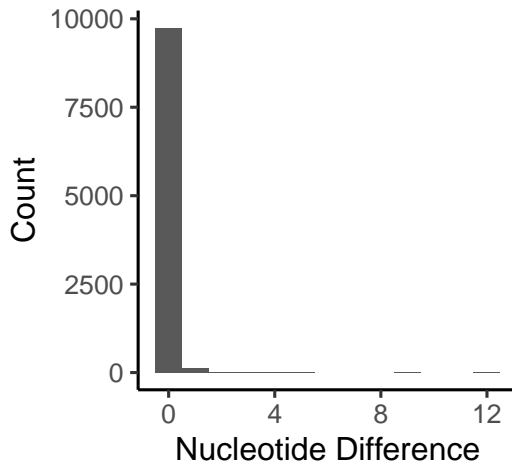
### TRBV18\*ap01

7490 sequences assigned  
7452 (99.5%) exact matches, in which:  
7391 unique CDR3  
13 unique J



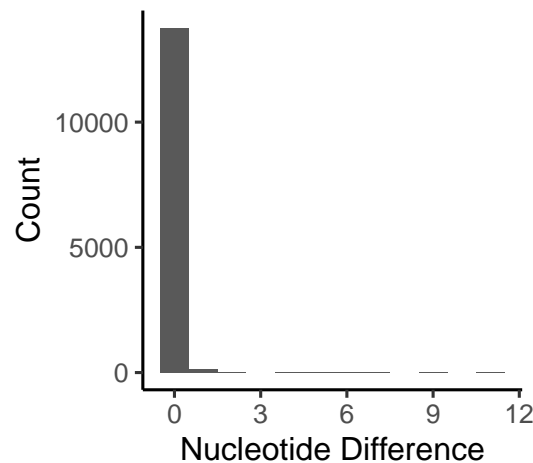
### TRBV27\*ap01

9891 sequences assigned  
9746 (98.5%) exact matches, in which:  
9576 unique CDR3  
13 unique J



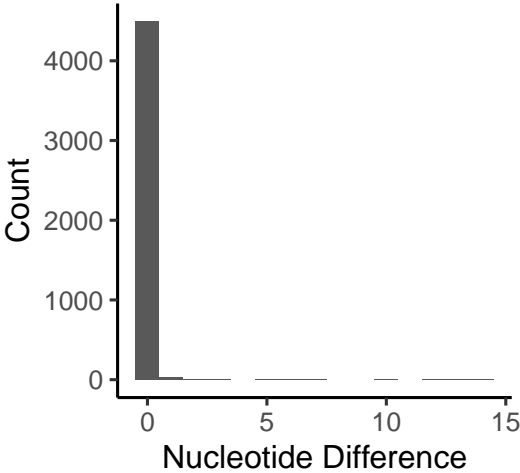
### TRBV9\*ap01

13919 sequences assigned  
13766 (98.9%) exact matches, in which:  
13589 unique CDR3  
13 unique J



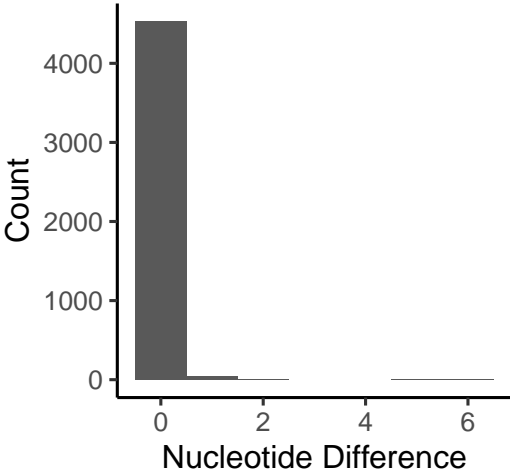
TRBV21-1\*ap01

4552 sequences assigned  
4494 (98.7%) exact matches, in which:  
4444 unique CDR3  
13 unique J



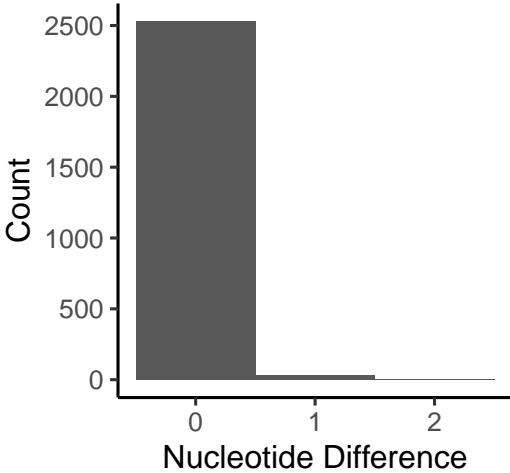
TRBV11-3\*ap01

4576 sequences assigned  
4530 (99%) exact matches, in which:  
4468 unique CDR3  
13 unique J



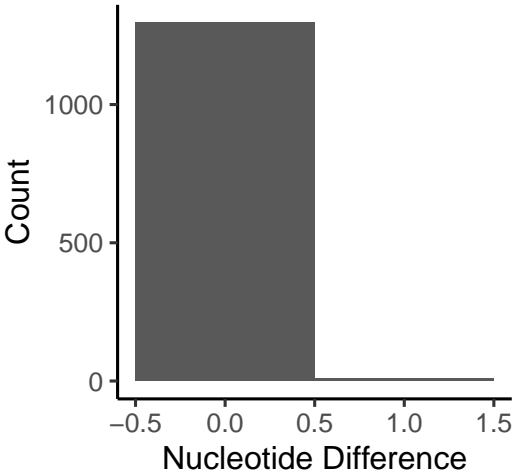
TRBV12-5\*ap01

2560 sequences assigned  
2529 (98.8%) exact matches, in which:  
2493 unique CDR3  
13 unique J



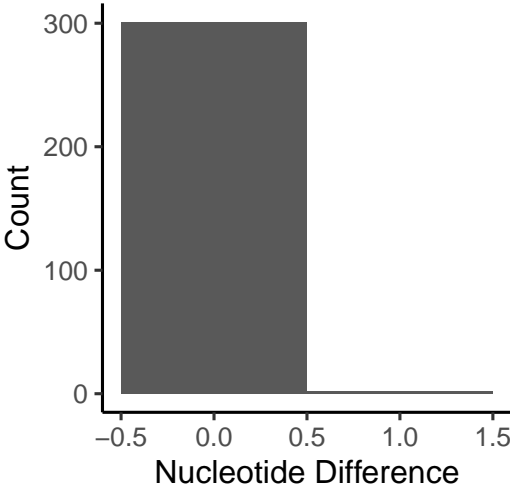
TRBV11-1\*ap01

1305 sequences assigned  
1296 (99.3%) exact matches, in which:  
1286 unique CDR3  
13 unique J



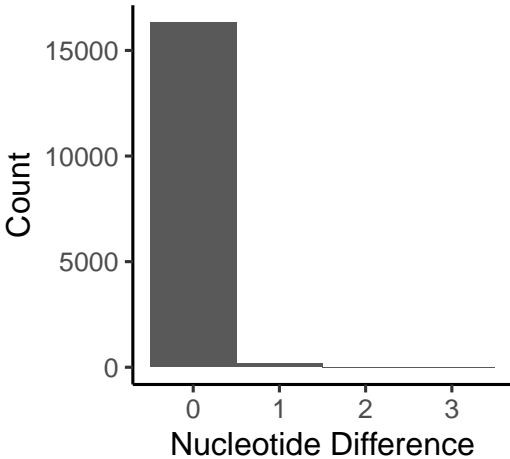
TRBV12-1\*ap01

303 sequences assigned  
301 (99.3%) exact matches, in which:  
299 unique CDR3  
13 unique J



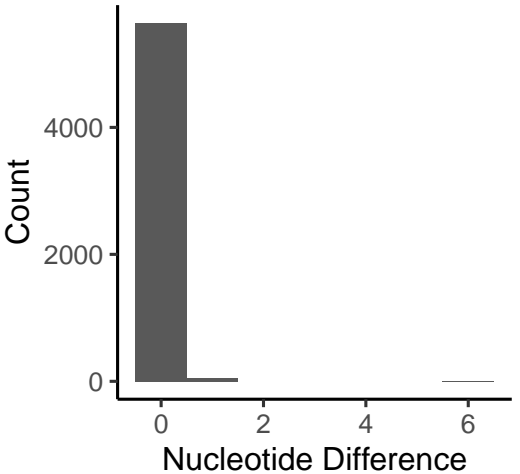
TRBV12-34\*ap01

16502 sequences assigned  
16324 (98.9%) exact matches, in which:  
16084 unique CDR3  
13 unique J



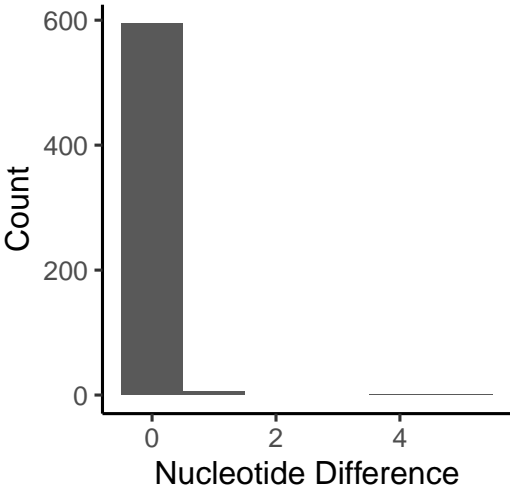
TRBV11-2\*ap01

5696 sequences assigned  
5644 (99.1%) exact matches, in which:  
5545 unique CDR3  
13 unique J



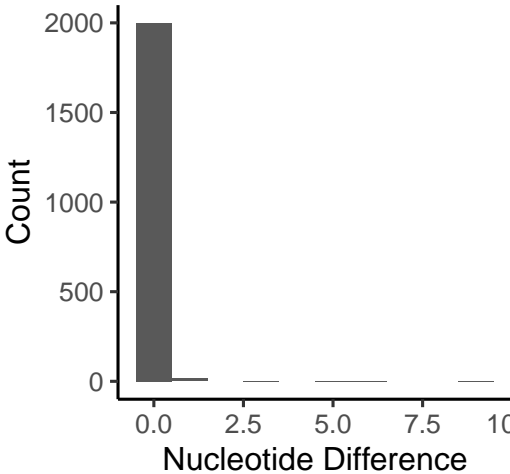
TRBV12-2\*ap01

602 sequences assigned  
595 (98.8%) exact matches, in which:  
583 unique CDR3  
13 unique J



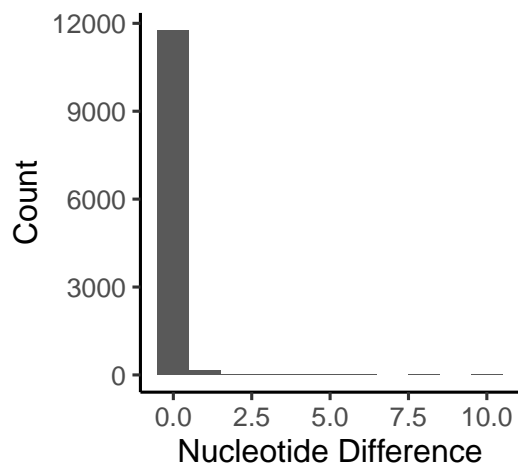
TRBV23-1\*ap01

2018 sequences assigned  
1999 (99.1%) exact matches, in which:  
1971 unique CDR3  
13 unique J



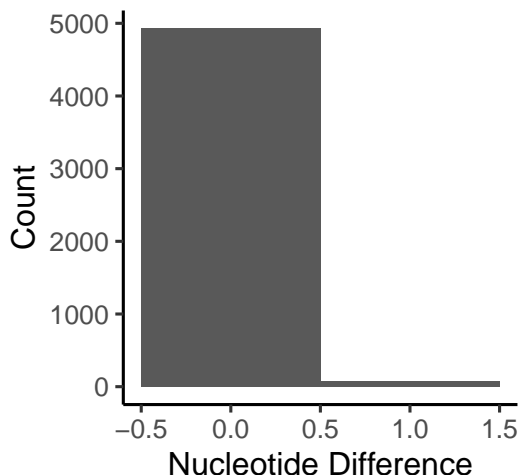
### TRBV3-12\*ap01

11922 sequences assigned  
11767 (98.7%) exact matches, in which:  
11590 unique CDR3  
13 unique J



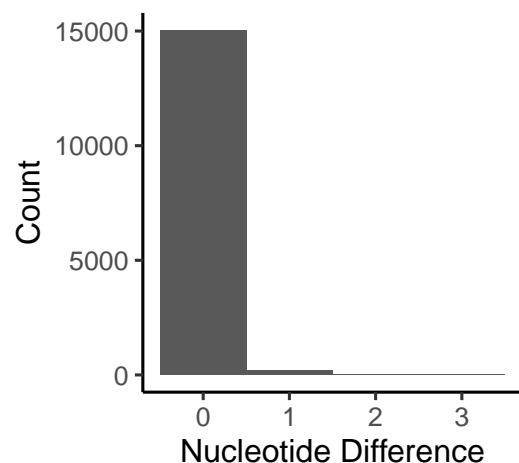
### TRBV4-2\*ap01

4999 sequences assigned  
4930 (98.6%) exact matches, in which:  
4843 unique CDR3  
13 unique J



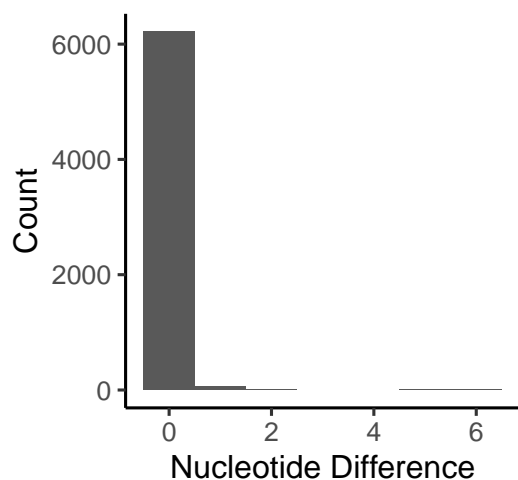
### TRBV5-1\*ap01

15224 sequences assigned  
15039 (98.8%) exact matches, in which:  
14730 unique CDR3  
13 unique J



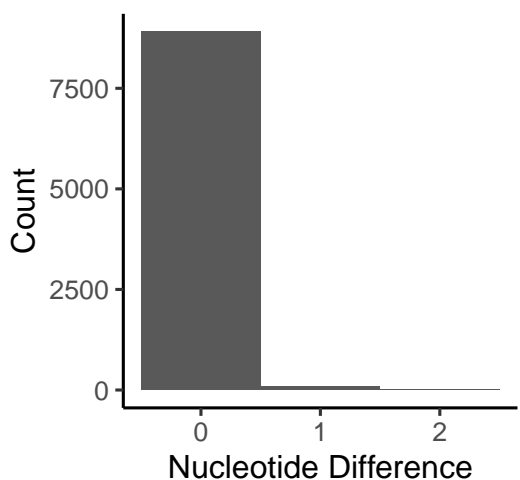
### TRBV4-1\*ap01

6285 sequences assigned  
6215 (98.9%) exact matches, in which:  
6102 unique CDR3  
13 unique J



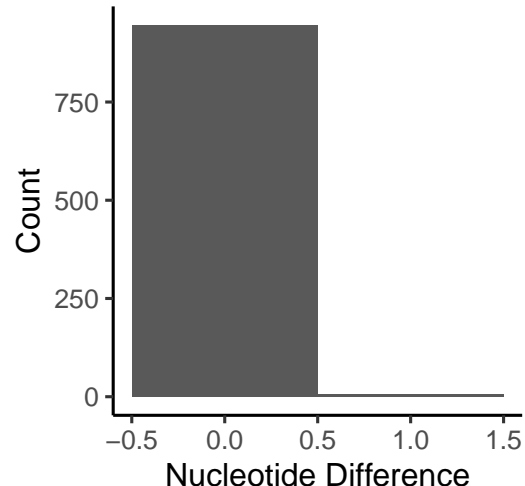
### TRBV4-3\*ap01

8992 sequences assigned  
8907 (99.1%) exact matches, in which:  
8784 unique CDR3  
13 unique J



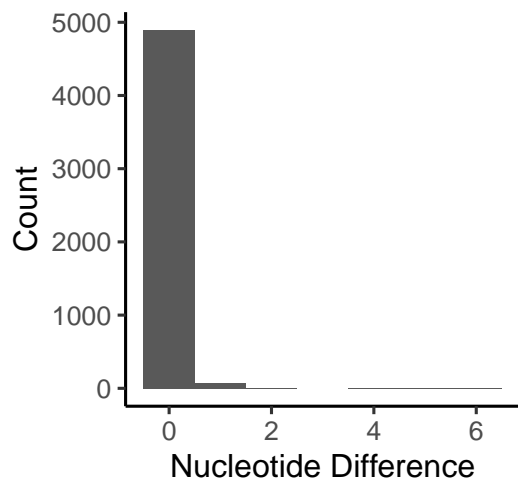
### TRBV5-3\*ap01

953 sequences assigned  
946 (99.3%) exact matches, in which:  
932 unique CDR3  
13 unique J



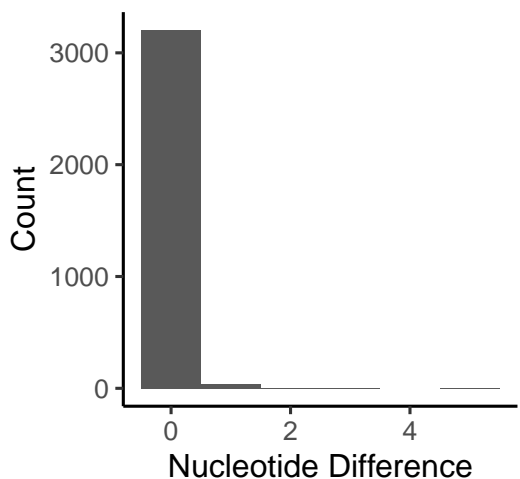
### TRBV24-1\*ap01

4978 sequences assigned  
4894 (98.3%) exact matches, in which:  
4813 unique CDR3  
13 unique J



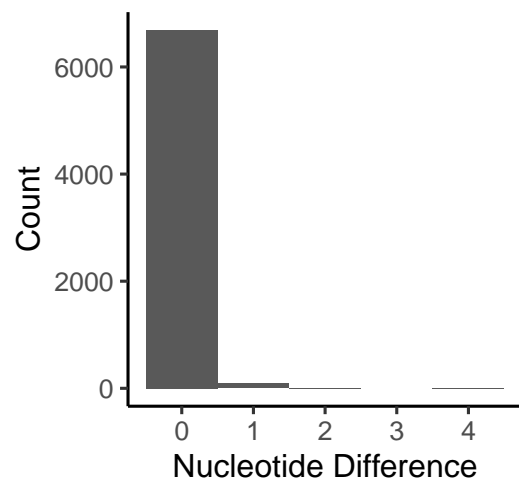
### TRBV25-1\*ap01

3248 sequences assigned  
3204 (98.6%) exact matches, in which:  
3150 unique CDR3  
13 unique J



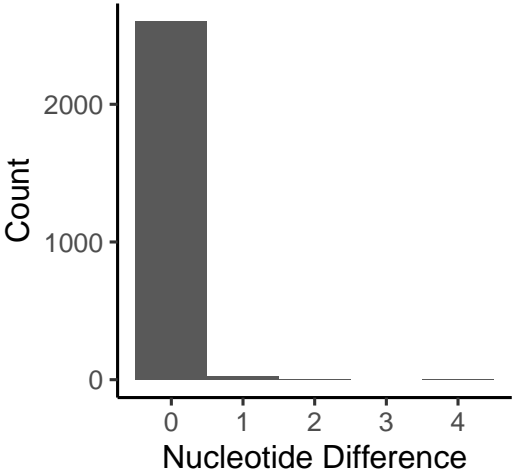
### TRBV5-4\*ap01

6783 sequences assigned  
6689 (98.6%) exact matches, in which:  
6570 unique CDR3  
13 unique J



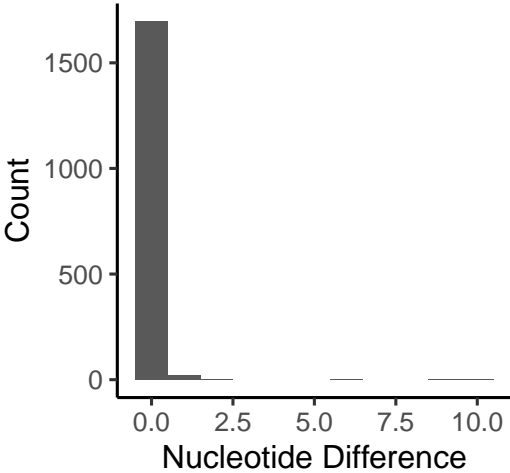
TRBV5-5\*ap01

2631 sequences assigned  
2602 (98.9%) exact matches, in which:  
2585 unique CDR3  
13 unique J



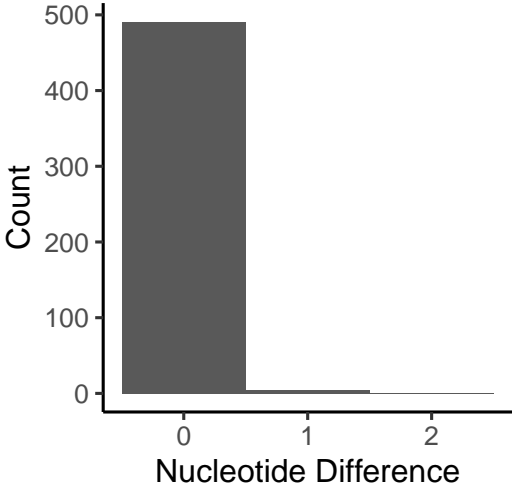
TRBV5-8\*ap01

1724 sequences assigned  
1696 (98.4%) exact matches, in which:  
1679 unique CDR3  
13 unique J



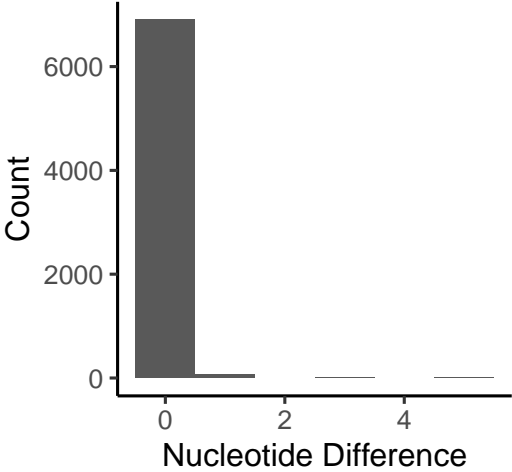
TRBV6-7\*ap01

497 sequences assigned  
491 (98.8%) exact matches, in which:  
480 unique CDR3  
13 unique J



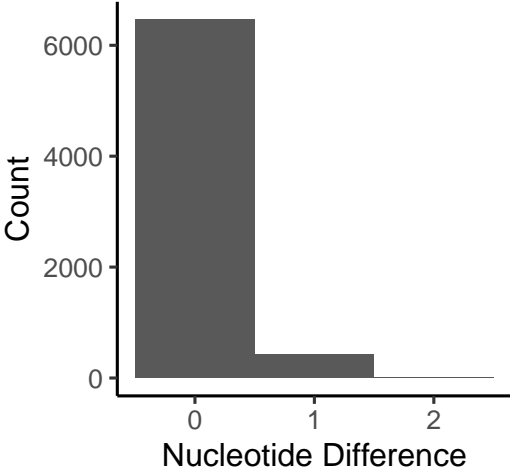
TRBV5-6\*ap01

6980 sequences assigned  
6903 (98.9%) exact matches, in which:  
6775 unique CDR3  
13 unique J



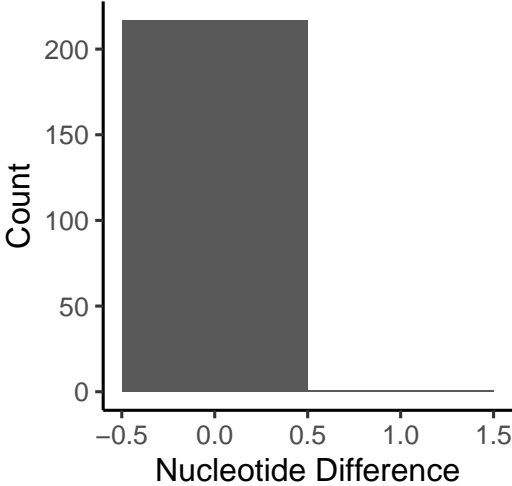
TRBV6-1\*ap01

6890 sequences assigned  
6461 (93.8%) exact matches, in which:  
6338 unique CDR3  
13 unique J



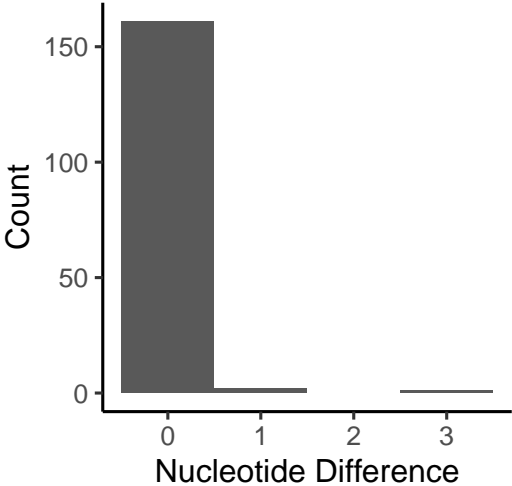
TRBV6-8\*ap01

218 sequences assigned  
217 (99.5%) exact matches, in which:  
214 unique CDR3  
13 unique J



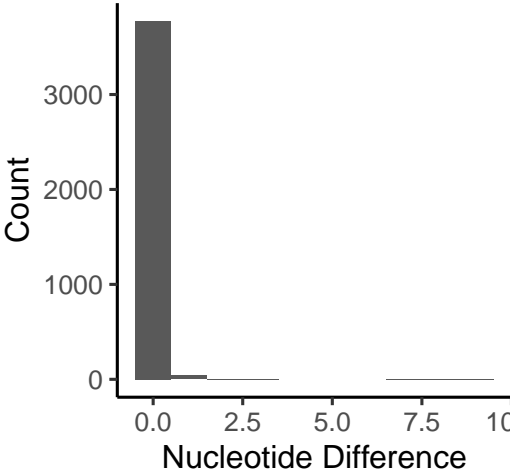
TRBV5-7\*ap01

164 sequences assigned  
161 (98.2%) exact matches, in which:  
157 unique CDR3  
13 unique J



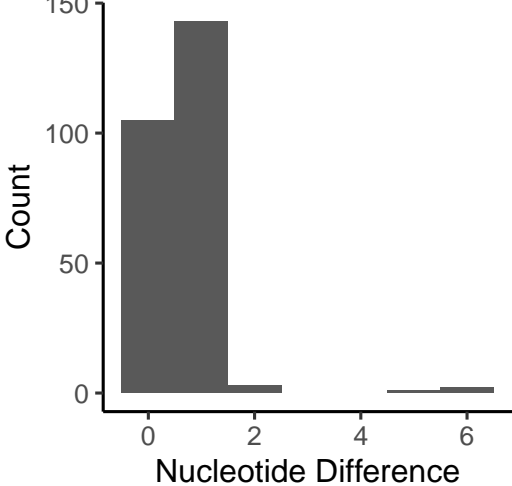
TRBV6-4\*ap01

3826 sequences assigned  
3774 (98.6%) exact matches, in which:  
3729 unique CDR3  
13 unique J



TRBV6-9\*ap01

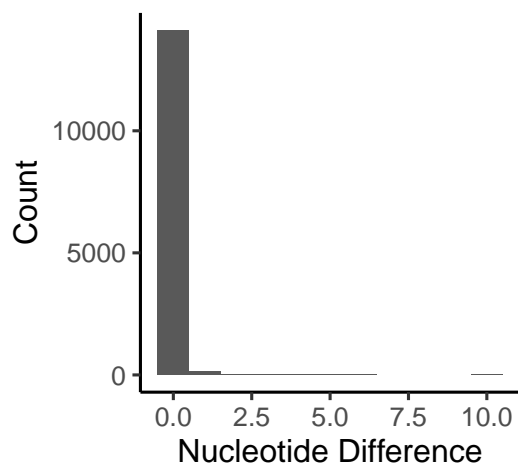
254 sequences assigned  
105 (41.3%) exact matches, in which:  
104 unique CDR3  
13 unique J





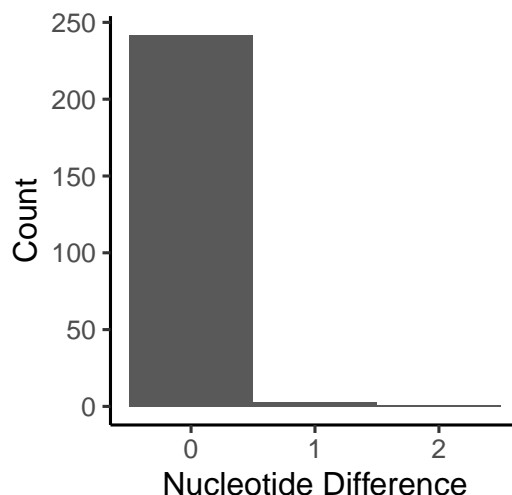
### TRBV6-23\*ap01

14280 sequences assigned  
14122 (98.9%) exact matches, in which:  
13836 unique CDR3  
14 unique J



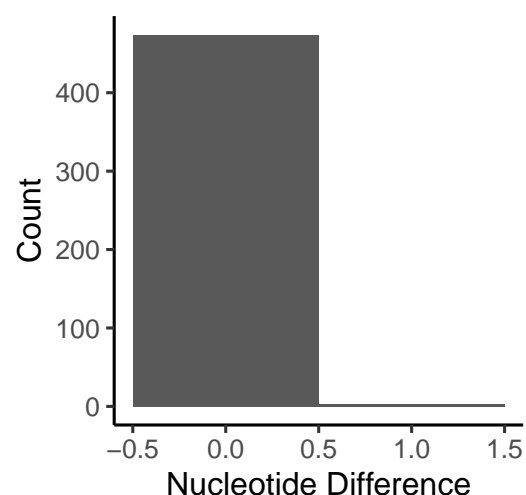
### TRBV7-1\*ap01\_G291C\_

246 sequences assigned  
242 (98.4%) exact matches, in which:  
240 unique CDR3  
13 unique J



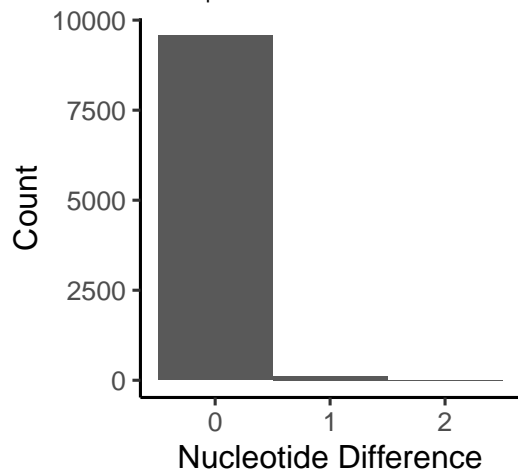
### TRBV7-4\*ap01

477 sequences assigned  
474 (99.4%) exact matches, in which:  
464 unique CDR3  
13 unique J



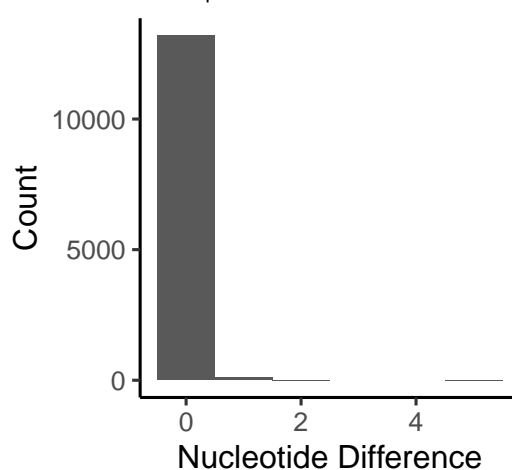
### TRBV6-56\*ap01

9697 sequences assigned  
9574 (98.7%) exact matches, in which:  
9390 unique CDR3  
13 unique J



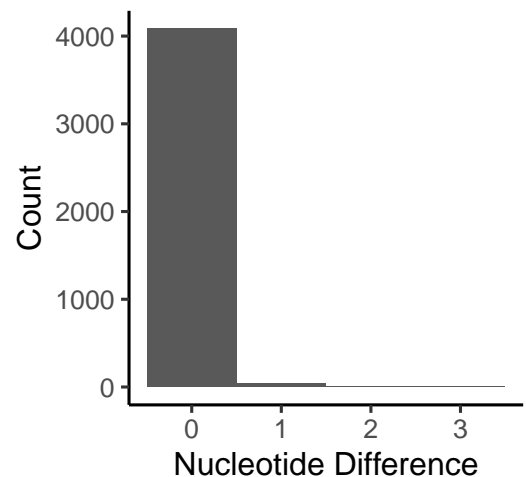
### TRBV7-2\*ap01

13301 sequences assigned  
13200 (99.2%) exact matches, in which:  
13039 unique CDR3  
13 unique J



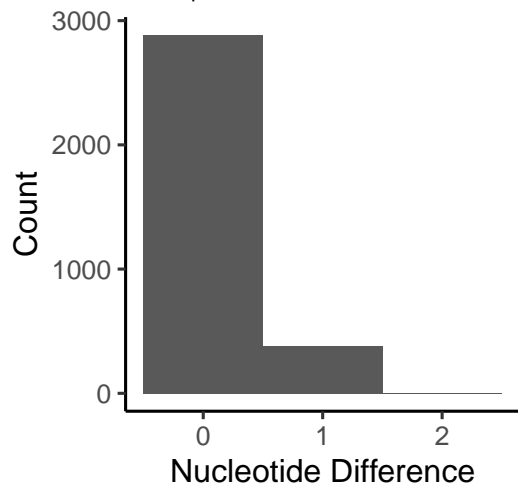
### TRBV7-6\*ap01

4126 sequences assigned  
4084 (99%) exact matches, in which:  
4020 unique CDR3  
13 unique J



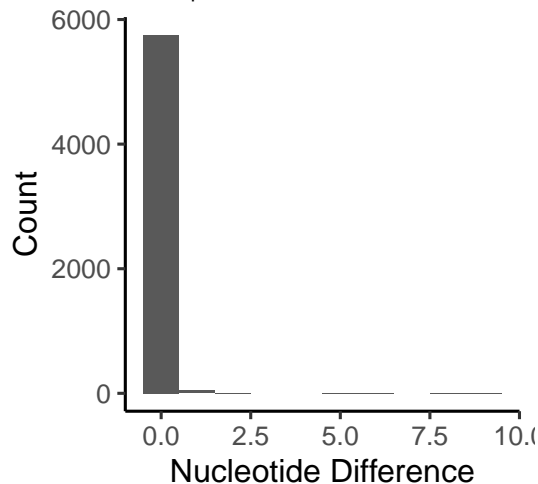
### TRBV6-56\*ap02

3271 sequences assigned  
2884 (88.2%) exact matches, in which:  
2825 unique CDR3  
13 unique J



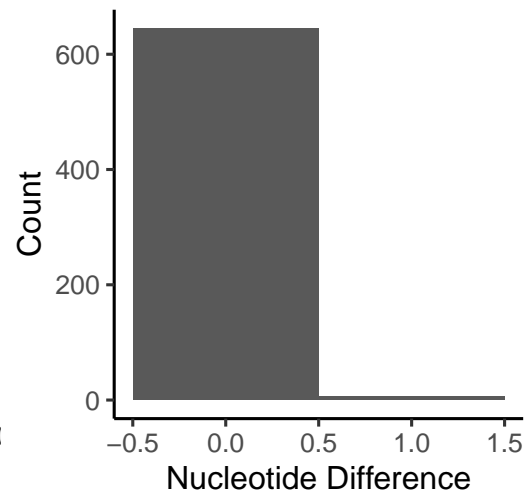
### TRBV7-3\*ap01

5804 sequences assigned  
5751 (99.1%) exact matches, in which:  
5702 unique CDR3  
13 unique J



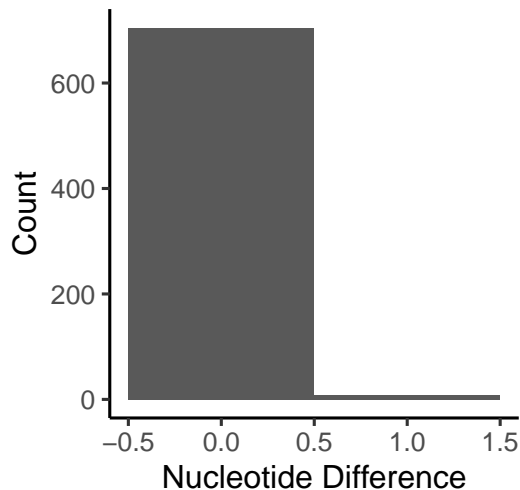
### TRBV7-7\*ap01

651 sequences assigned  
645 (99.1%) exact matches, in which:  
634 unique CDR3  
13 unique J



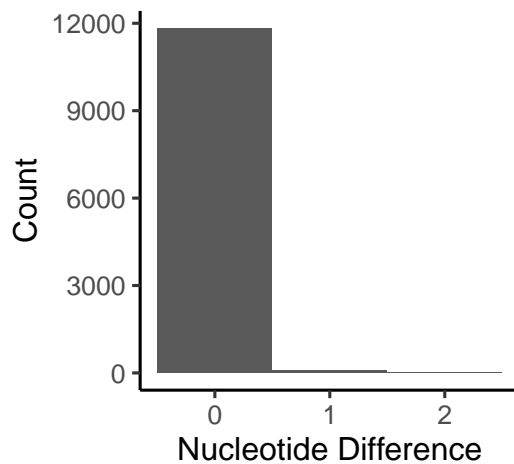
### TRBV7-7\*ap01\_C315T

713 sequences assigned  
705 (98.9%) exact matches, in which:  
691 unique CDR3  
13 unique J



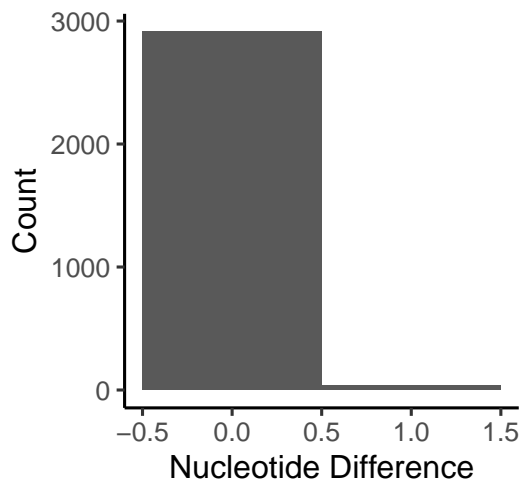
### TRBV7-9\*ap01

11925 sequences assigned  
11833 (99.2%) exact matches, in which:  
11705 unique CDR3  
13 unique J



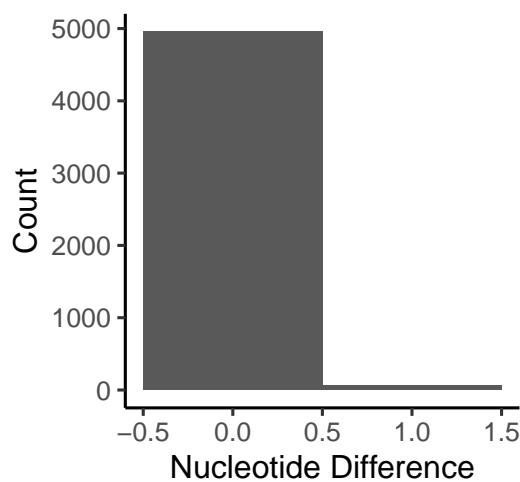
### TRBV7-8\*ap01

2950 sequences assigned  
2913 (98.7%) exact matches, in which:  
2864 unique CDR3  
13 unique J



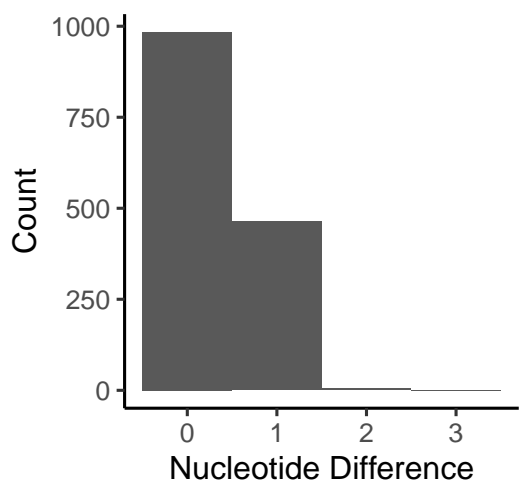
### TRBV29-1\*ap01

5015 sequences assigned  
4956 (98.8%) exact matches, in which:  
4876 unique CDR3  
13 unique J



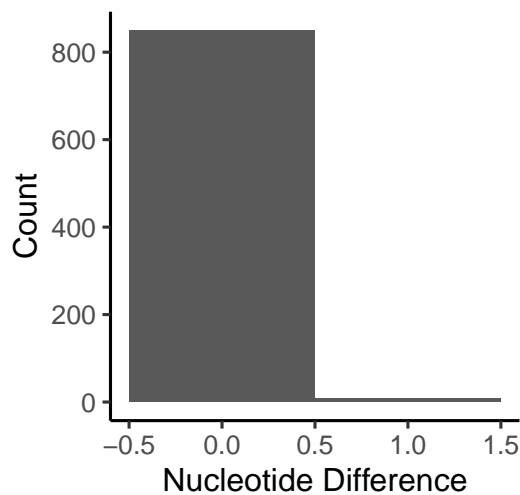
### TRBV7-8\*ap03

1454 sequences assigned  
984 (67.7%) exact matches, in which:  
970 unique CDR3  
13 unique J

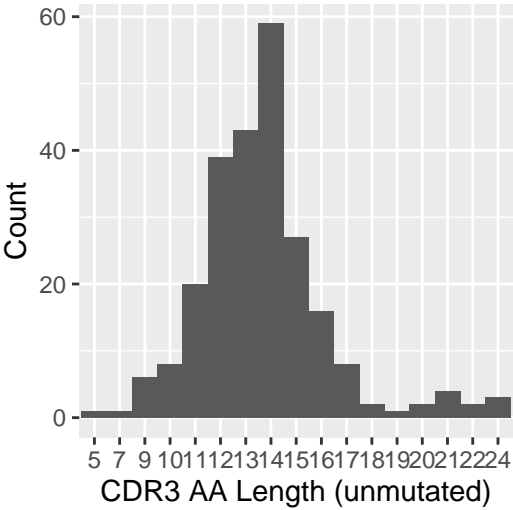


### TRBV29-1\*ap02

858 sequences assigned  
850 (99.1%) exact matches, in which:  
834 unique CDR3  
13 unique J



TRBV7-1\*ap01\_G291C\_T296C



TRBV7-7\*ap01\_C315T

