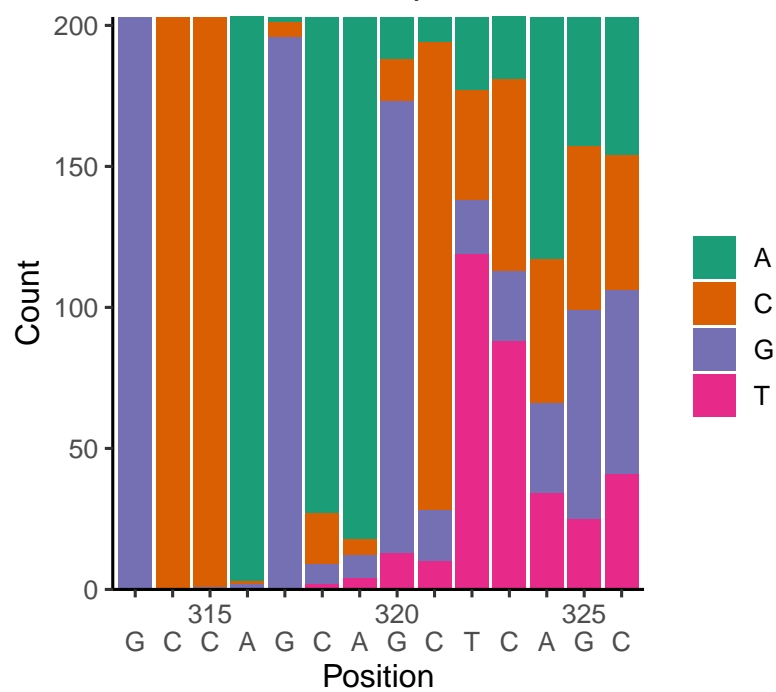
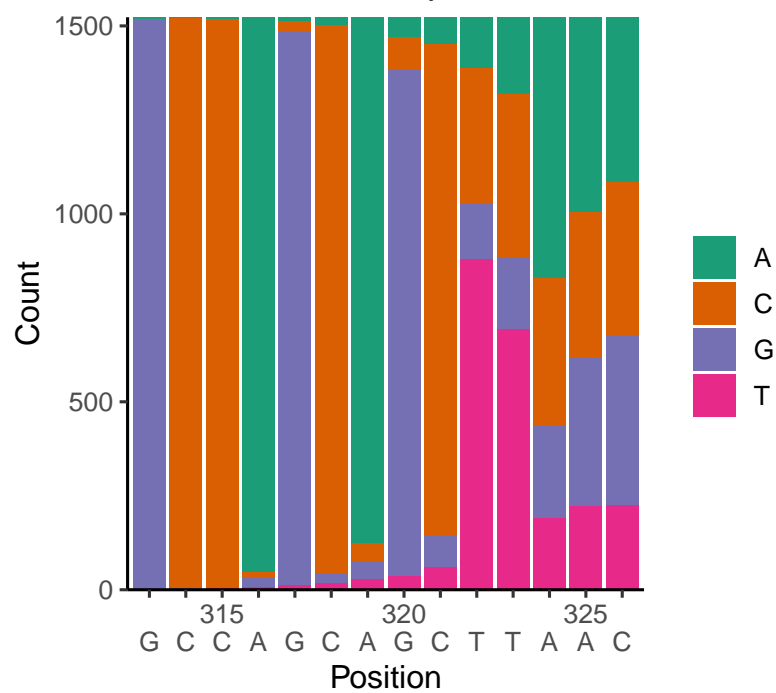


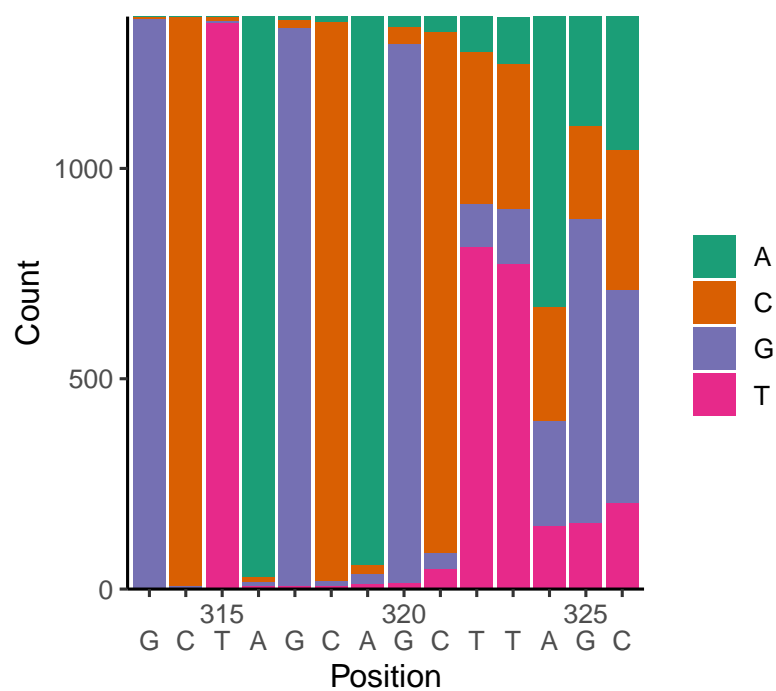
Gene TRBV7-1\*ap01\_G291C\_T296C



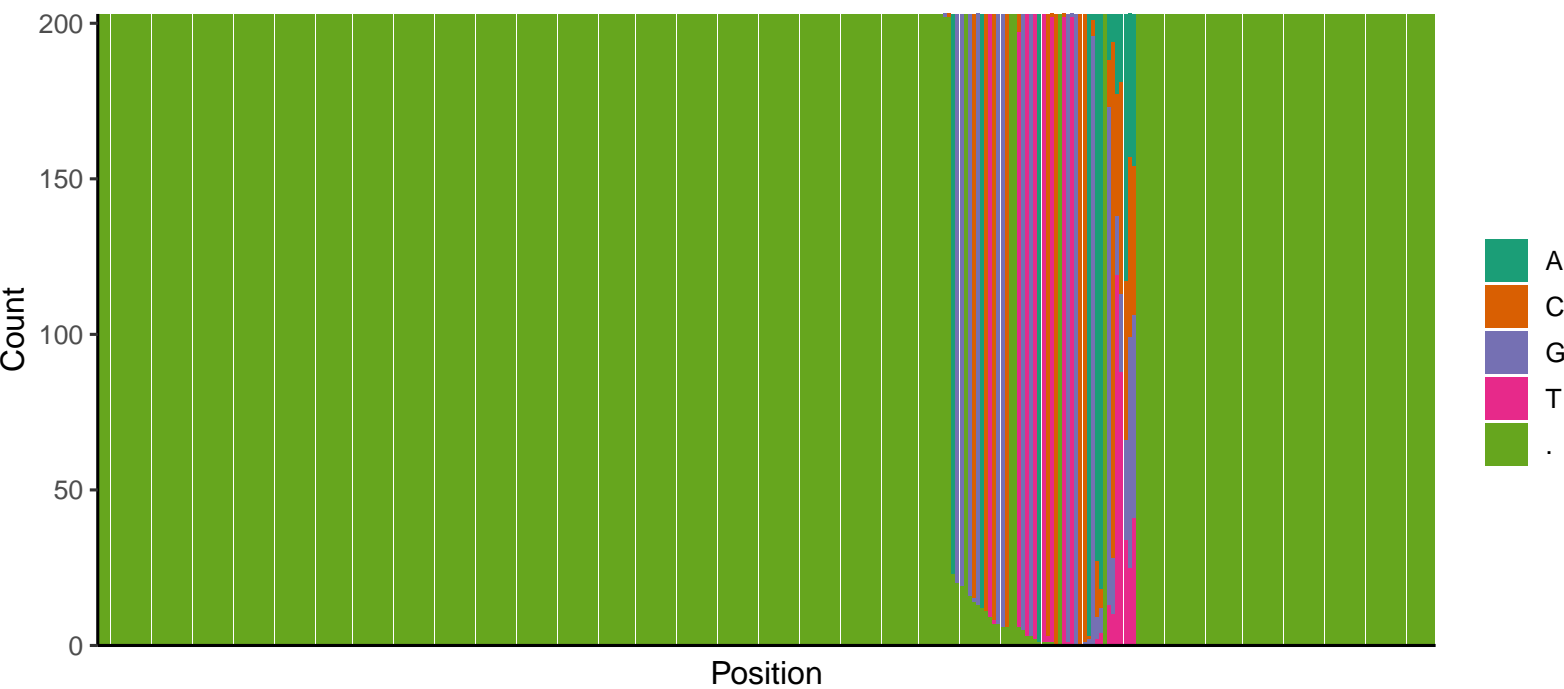
Gene TRBV7-3\*ap01\_G292T



Gene TRBV7-7\*ap01\_C315T



Gene TRBV7-1\*ap01\_G291C\_T296C



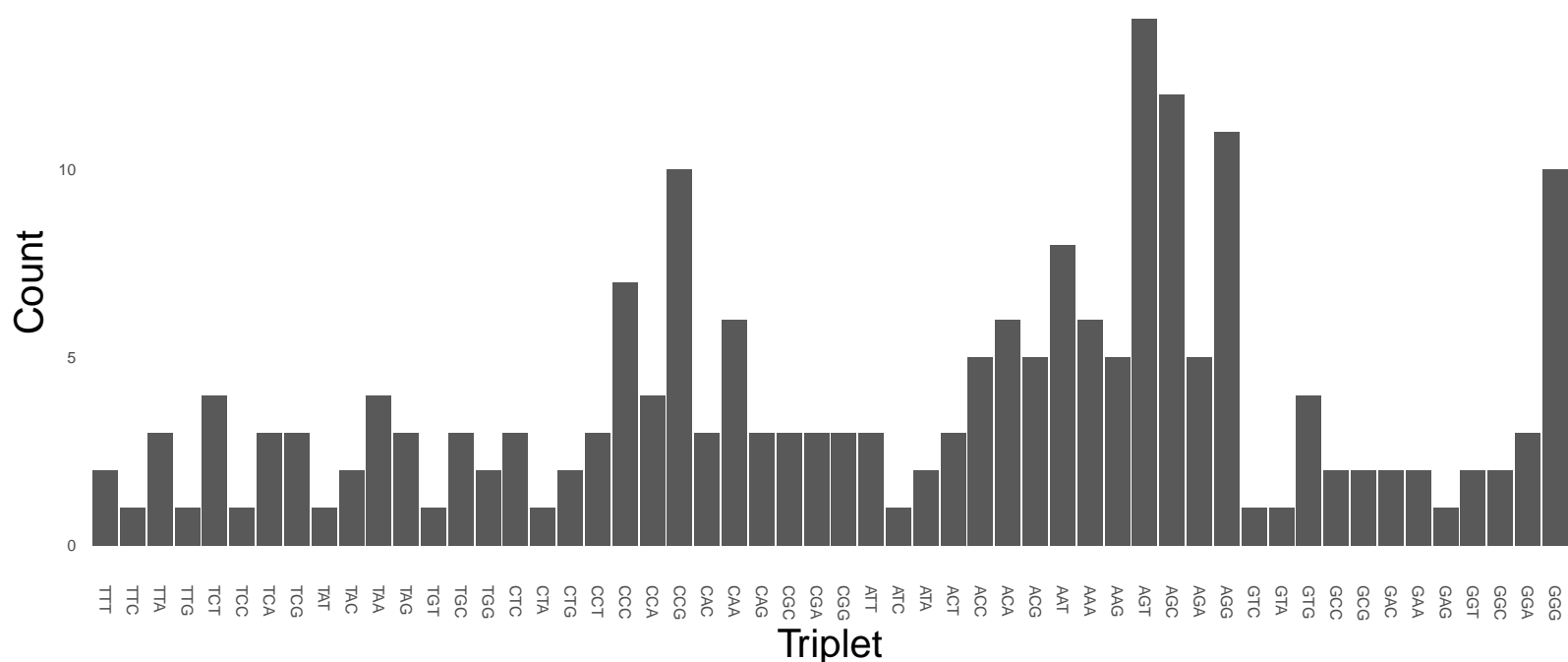
Gene TRBV7-3\*ap01\_G292T



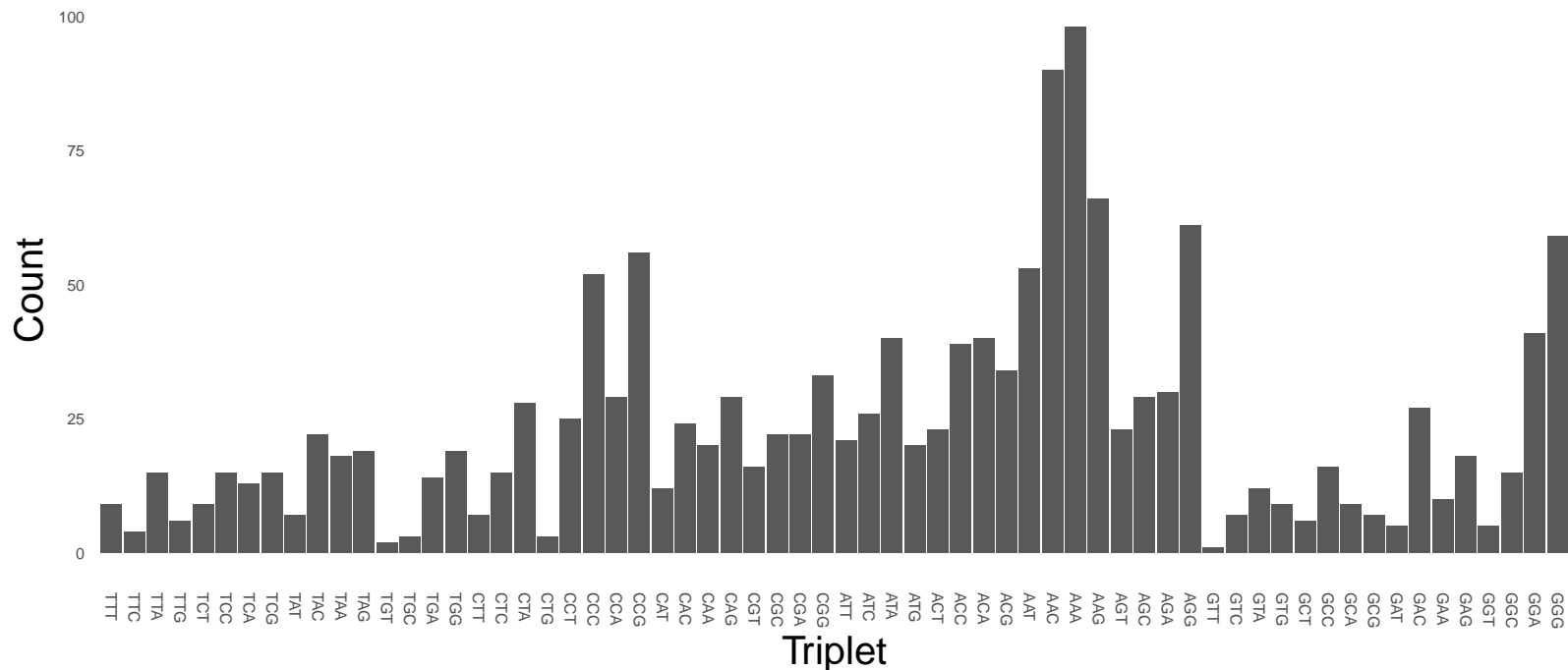
Gene TRBV7-7\*ap01\_C315T



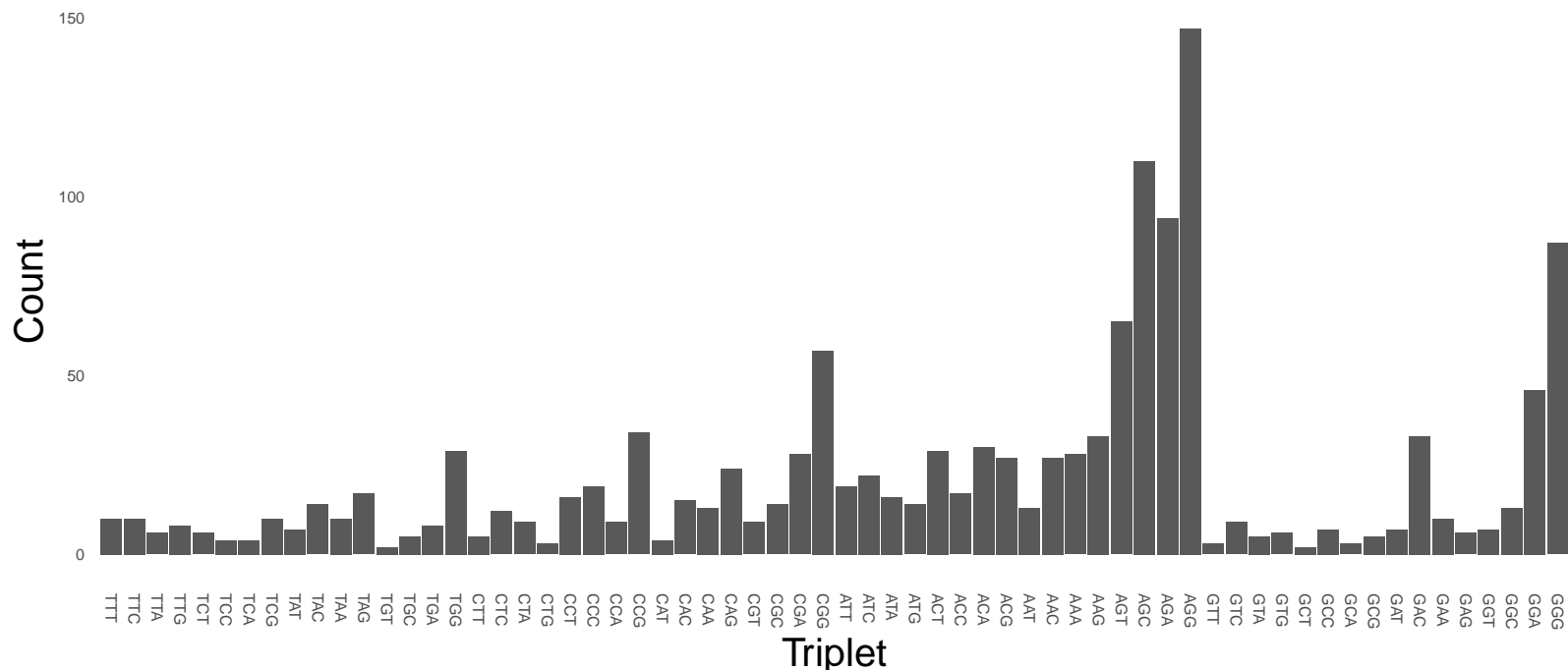
TRBV7-1\*ap01\_G291C\_T296C- Final 3 nucleotides as a triplet



TRBV7-3\*ap01\_G292T- Final 3 nucleotides as a triplet

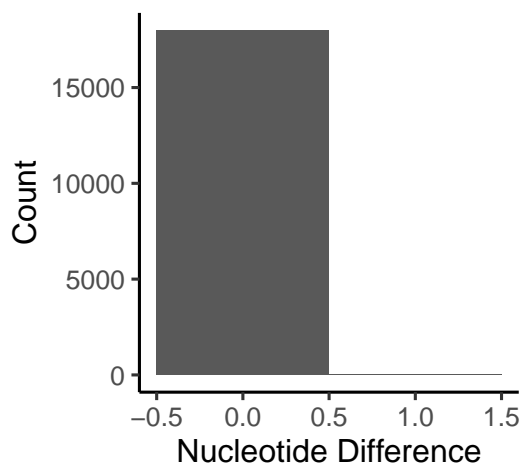


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



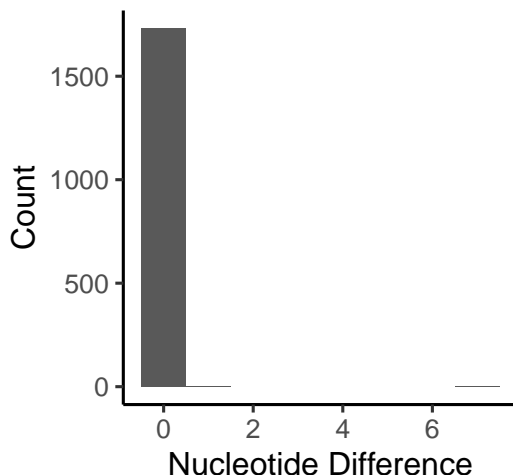
### TRBV20-1\*ap01

18027 sequences assigned  
17995 (99.8%) exact matches, in which:  
17984 unique CDR3  
13 unique J



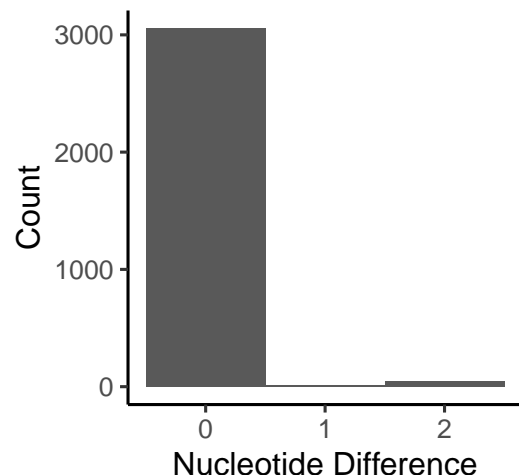
### TRBV10-2\*ap01

1735 sequences assigned  
1731 (99.8%) exact matches, in which:  
1729 unique CDR3  
12 unique J



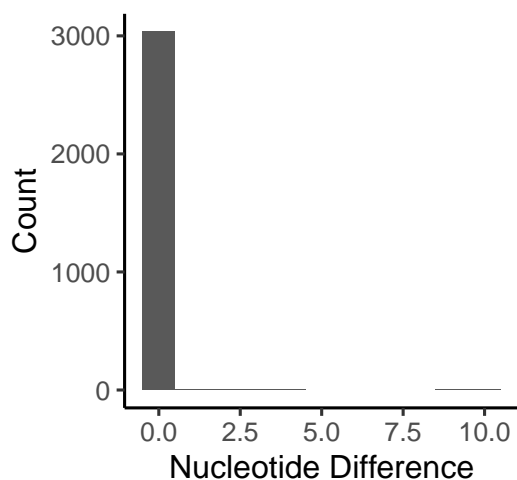
### TRBV13\*ap01

3113 sequences assigned  
3055 (98.1%) exact matches, in which:  
3050 unique CDR3  
12 unique J



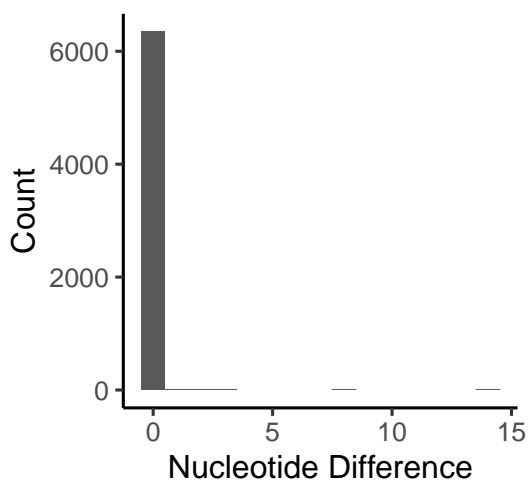
### TRBV10-1\*ap01

3051 sequences assigned  
3035 (99.5%) exact matches, in which:  
3035 unique CDR3  
12 unique J



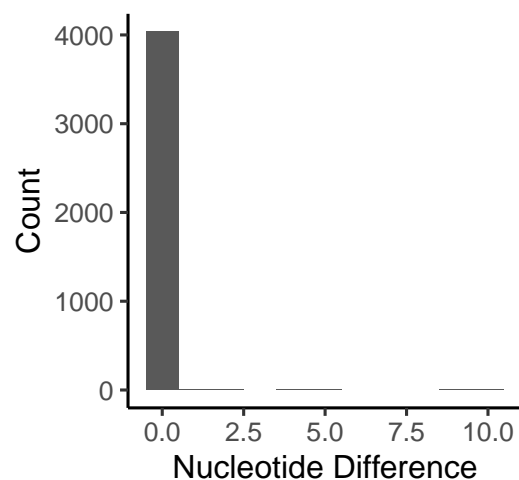
### TRBV10-3\*ap01

6364 sequences assigned  
6346 (99.7%) exact matches, in which:  
6343 unique CDR3  
12 unique J



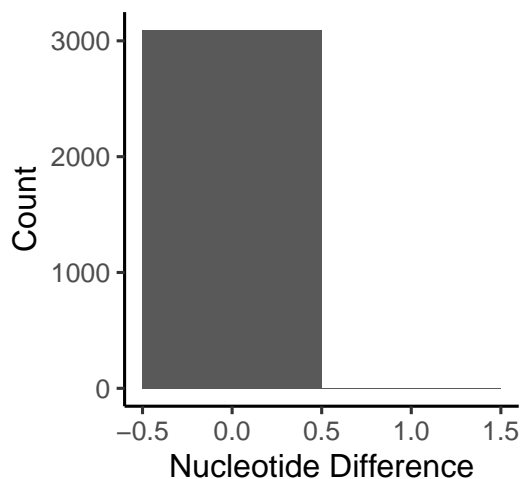
### TRBV14\*ap01

4047 sequences assigned  
4036 (99.7%) exact matches, in which:  
4036 unique CDR3  
13 unique J



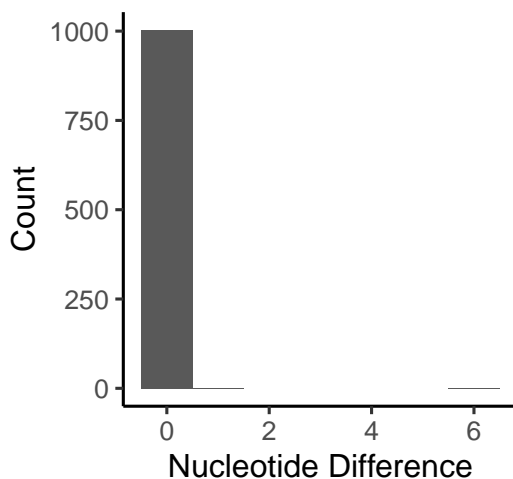
### TRBV20-1\*ap02

3096 sequences assigned  
3093 (99.9%) exact matches, in which:  
3091 unique CDR3  
13 unique J



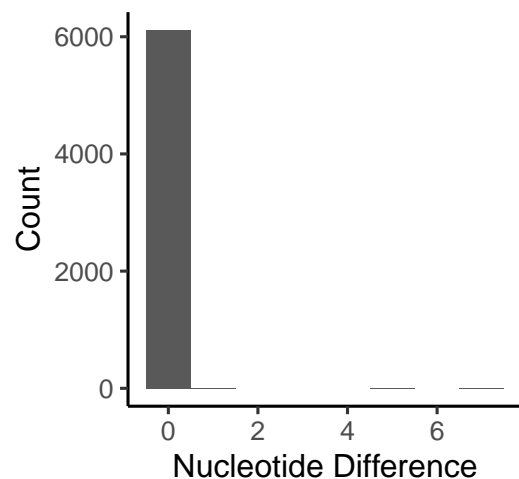
### TRBV1\*ap01

1005 sequences assigned  
1003 (99.8%) exact matches, in which:  
1003 unique CDR3  
12 unique J



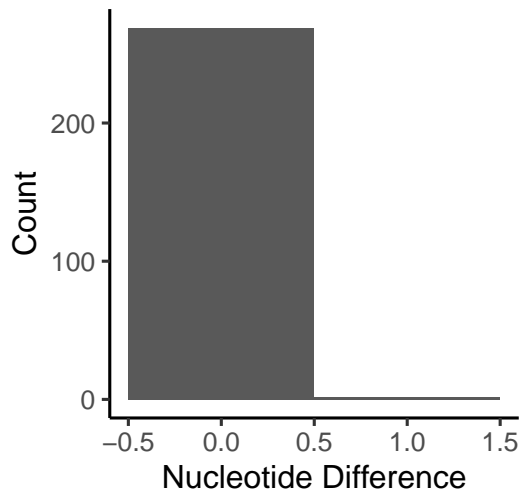
### TRBV15\*ap02

6126 sequences assigned  
6114 (99.8%) exact matches, in which:  
6111 unique CDR3  
12 unique J



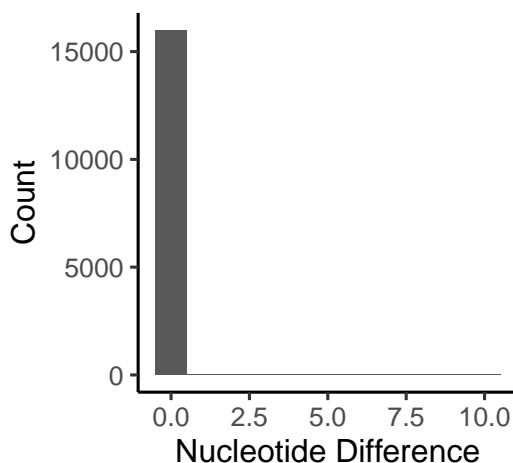
### TRBV16\*ap01

271 sequences assigned  
269 (99.3%) exact matches, in which:  
269 unique CDR3  
12 unique J



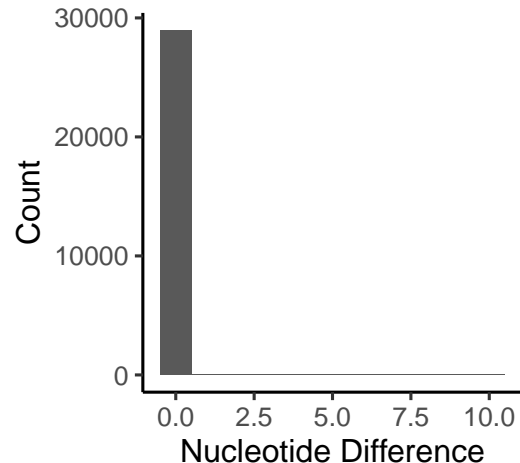
### TRBV19\*ap01

16048 sequences assigned  
15995 (99.7%) exact matches, in which:  
15995 unique CDR3  
13 unique J



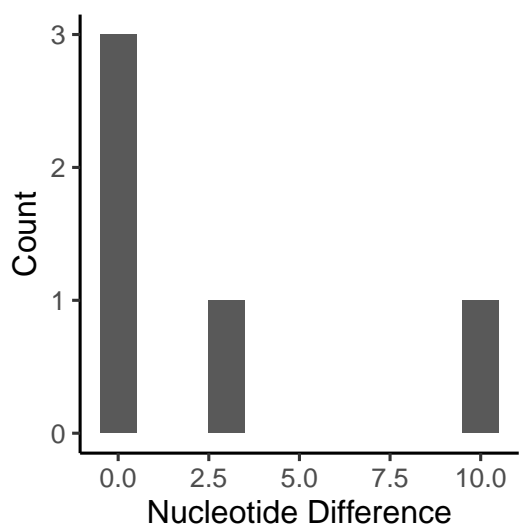
### TRBV27\*ap01

29078 sequences assigned  
28971 (99.6%) exact matches, in which:  
28908 unique CDR3  
13 unique J



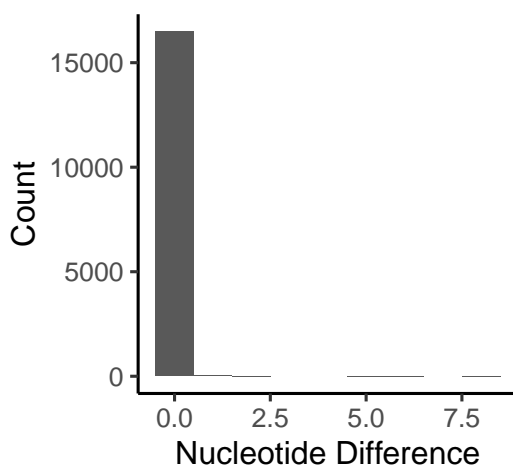
### TRBV17\*ap01

5 sequences assigned  
3 (60%) exact matches, in which:  
3 unique CDR3  
3 unique J



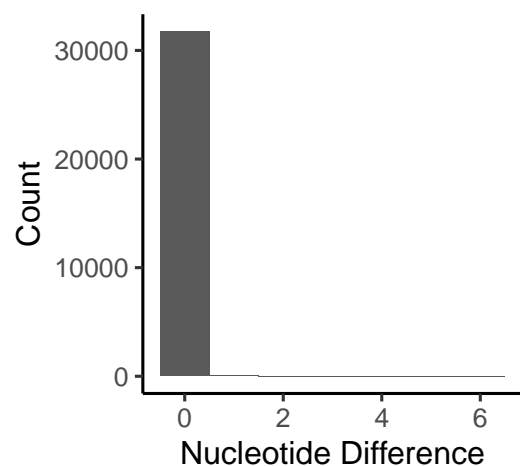
### TRBV2\*ap01

16545 sequences assigned  
16493 (99.7%) exact matches, in which:  
16460 unique CDR3  
13 unique J



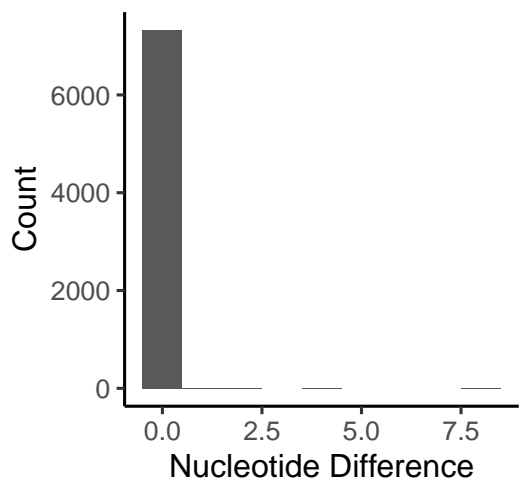
### TRBV28\*ap01

31816 sequences assigned  
31747 (99.8%) exact matches, in which:  
31744 unique CDR3  
13 unique J



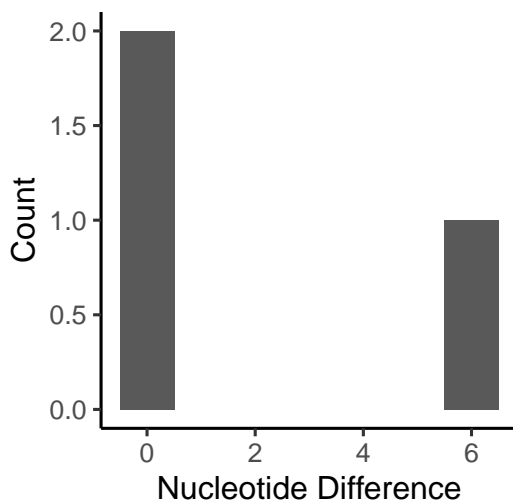
### TRBV18\*ap01

7334 sequences assigned  
7327 (99.9%) exact matches, in which:  
7327 unique CDR3  
13 unique J



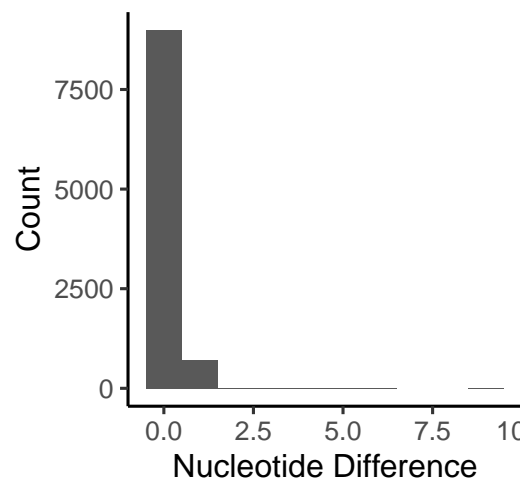
### TRBV26\*ap01

3 sequences assigned  
2 (66.7%) exact matches, in which:  
2 unique CDR3  
2 unique J



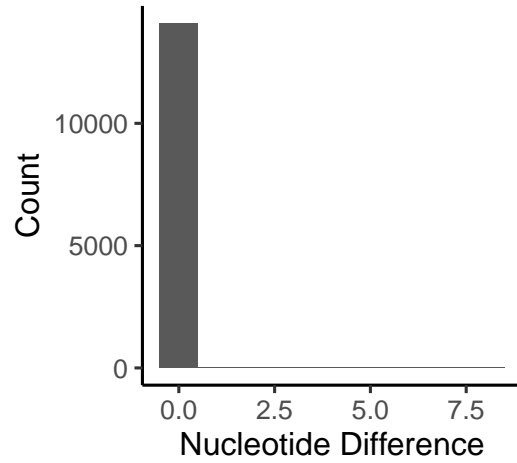
### TRBV30\*ap01

9714 sequences assigned  
8992 (92.6%) exact matches, in which:  
8970 unique CDR3  
13 unique J



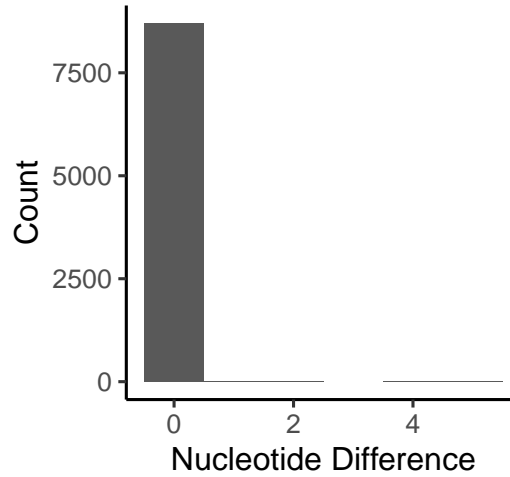
### TRBV9\*ap01

14125 sequences assigned  
14096 (99.8%) exact matches, in which:  
14091 unique CDR3  
12 unique J



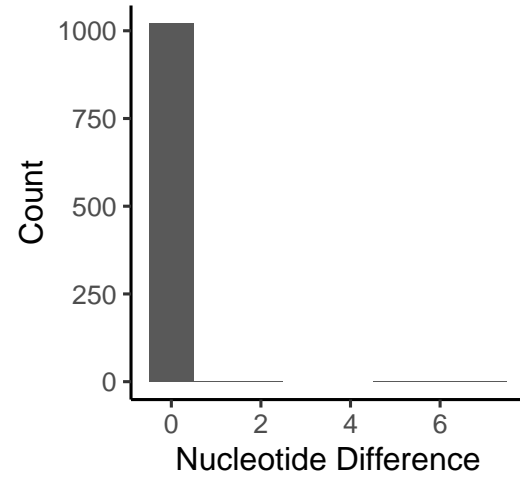
### TRBV11-2\*ap01

8713 sequences assigned  
8699 (99.8%) exact matches, in which:  
8698 unique CDR3  
12 unique J



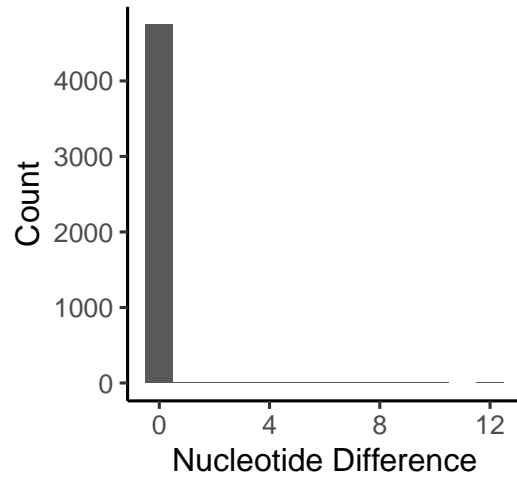
### TRBV12-2\*ap01

1027 sequences assigned  
1021 (99.4%) exact matches, in which:  
1021 unique CDR3  
12 unique J



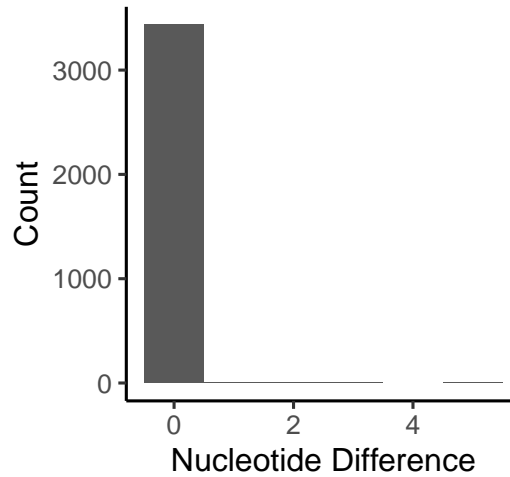
### TRBV21-1\*ap01

4792 sequences assigned  
4744 (99%) exact matches, in which:  
4743 unique CDR3  
13 unique J



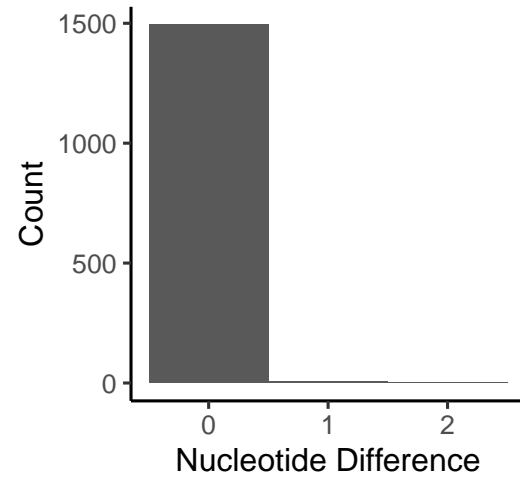
### TRBV11-3\*ap01

3449 sequences assigned  
3435 (99.6%) exact matches, in which:  
3435 unique CDR3  
13 unique J



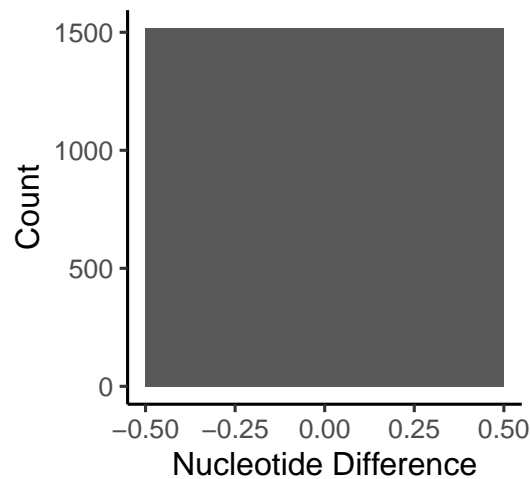
### TRBV12-5\*ap01

1501 sequences assigned  
1494 (99.5%) exact matches, in which:  
1494 unique CDR3  
12 unique J



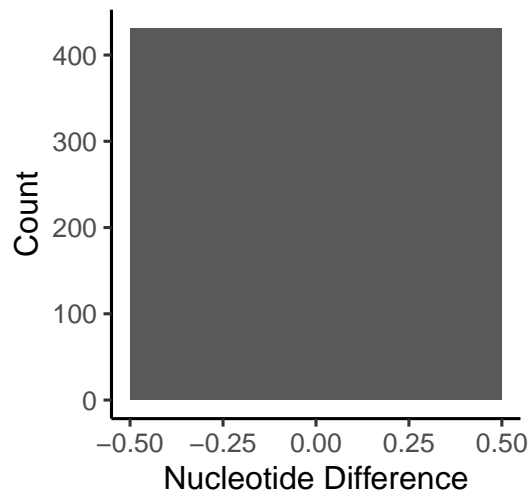
### TRBV11-1\*ap01

1518 sequences assigned  
1518 (100%) exact matches, in which:  
1518 unique CDR3  
12 unique J



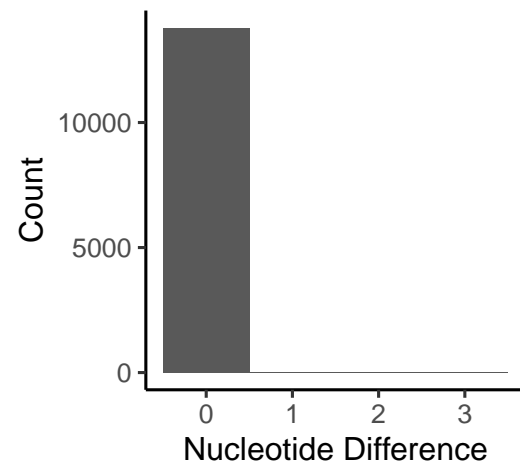
### TRBV12-1\*ap01

431 sequences assigned  
431 (100%) exact matches, in which:  
431 unique CDR3  
12 unique J



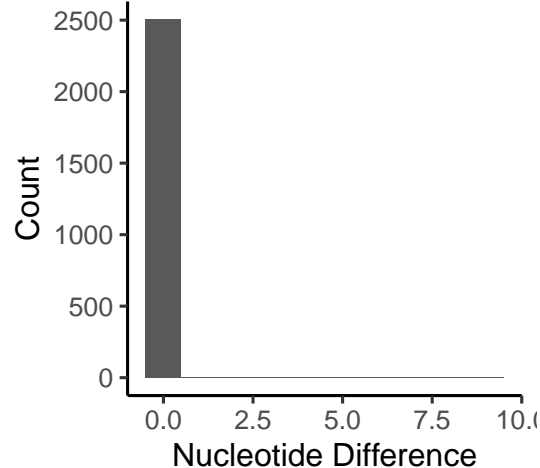
### TRBV12-34\*ap01

13811 sequences assigned  
13789 (99.8%) exact matches, in which:  
13786 unique CDR3  
12 unique J



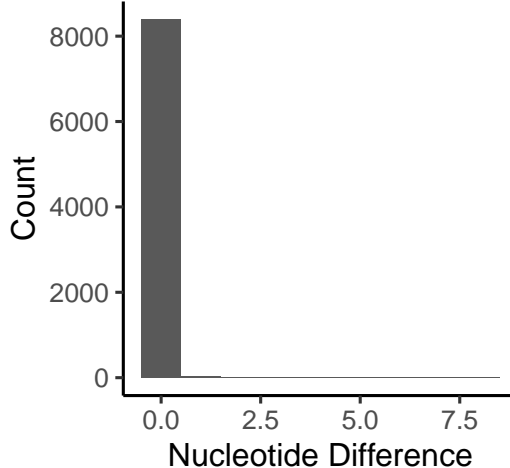
### TRBV23-1\*ap01

2520 sequences assigned  
2505 (99.4%) exact matches, in which:  
2505 unique CDR3  
13 unique J



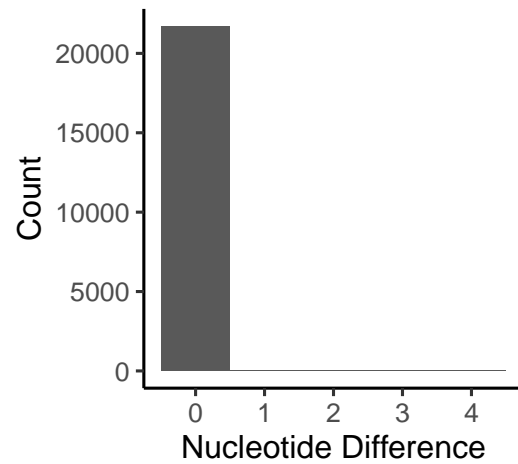
### TRBV24-1\*ap01

8436 sequences assigned  
8392 (99.5%) exact matches, in which:  
8371 unique CDR3  
13 unique J



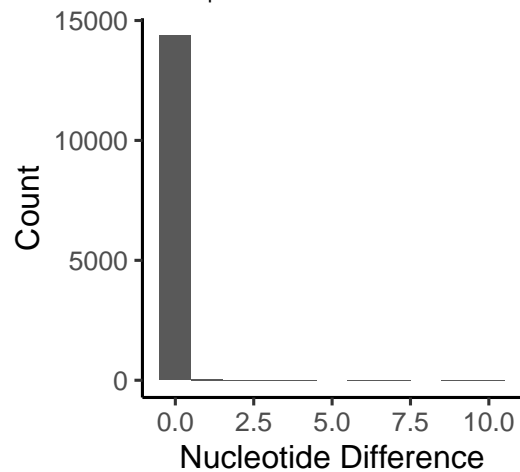
### TRBV5-1\*ap01

21742 sequences assigned  
21715 (99.9%) exact matches, in which:  
21693 unique CDR3  
14 unique J



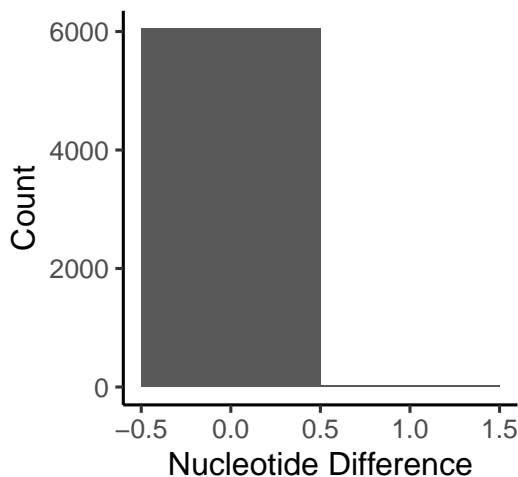
### TRBV3-12\*ap01

14429 sequences assigned  
14376 (99.6%) exact matches, in which:  
14337 unique CDR3  
13 unique J



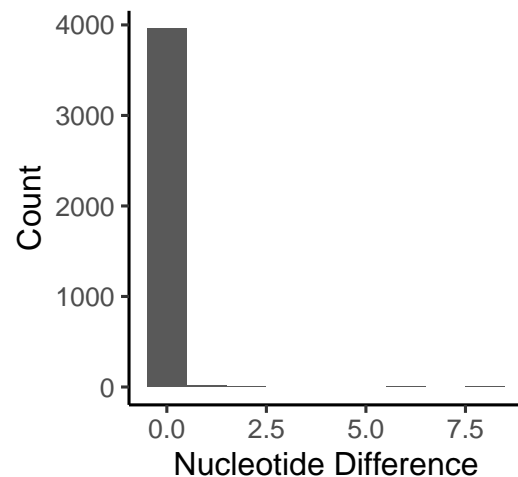
### TRBV4-2\*ap01

6072 sequences assigned  
6047 (99.6%) exact matches, in which:  
6044 unique CDR3  
13 unique J



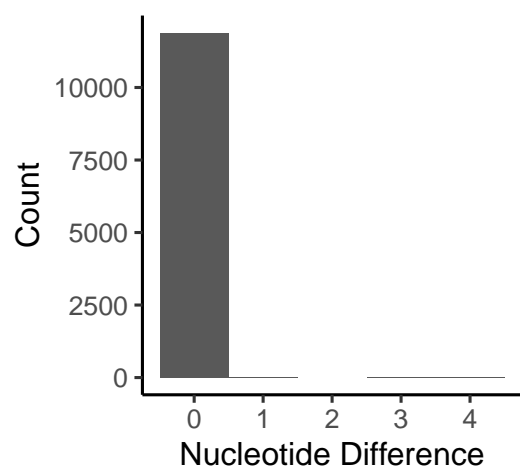
### TRBV25-1\*ap01

3979 sequences assigned  
3958 (99.5%) exact matches, in which:  
3948 unique CDR3  
13 unique J



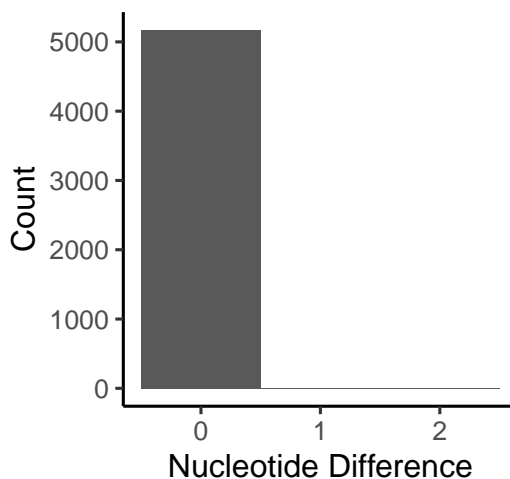
### TRBV4-1\*ap01

11899 sequences assigned  
11886 (99.9%) exact matches, in which:  
11882 unique CDR3  
13 unique J



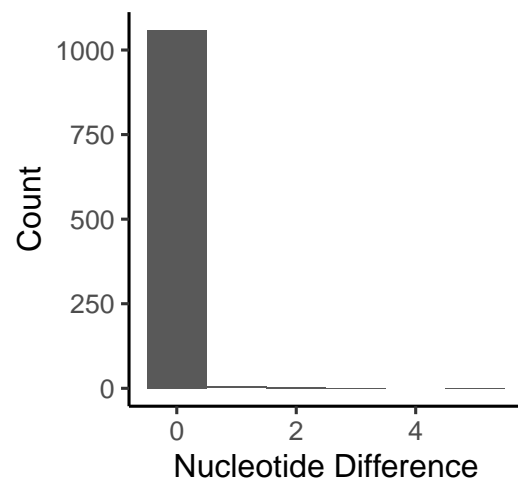
### TRBV4-3\*ap01

5178 sequences assigned  
5171 (99.9%) exact matches, in which:  
5164 unique CDR3  
12 unique J



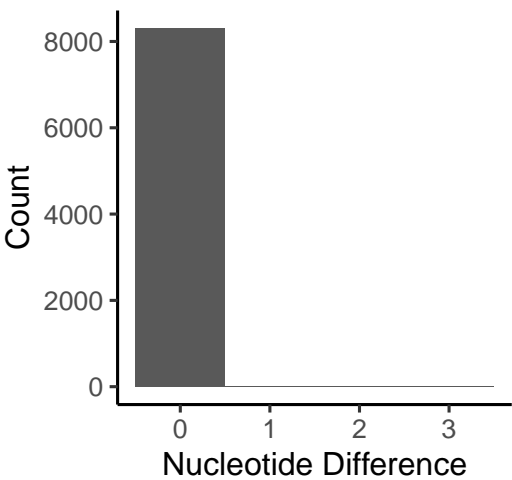
### TRBV5-3\*ap01

1069 sequences assigned  
1059 (99.1%) exact matches, in which:  
1059 unique CDR3  
12 unique J



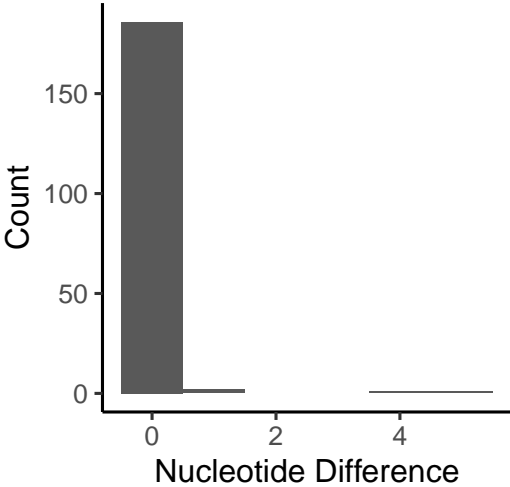
TRBV5-4\*ap01

8318 sequences assigned  
8303 (99.8%) exact matches, in which:  
8301 unique CDR3  
12 unique J



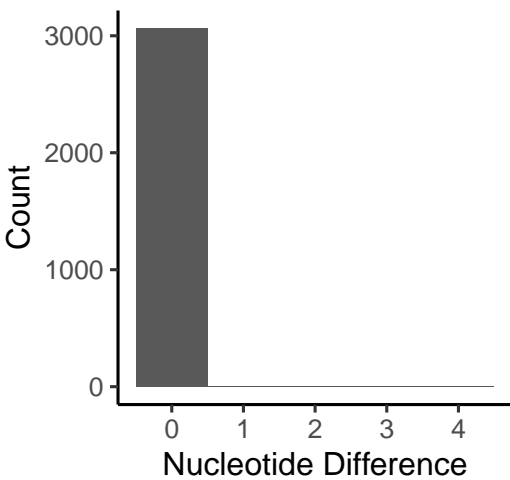
TRBV5-7\*ap01

190 sequences assigned  
186 (97.9%) exact matches, in which:  
185 unique CDR3  
13 unique J



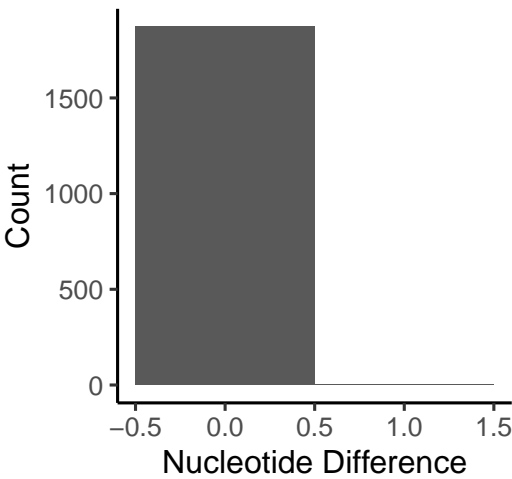
TRBV6-4\*ap01

3070 sequences assigned  
3063 (99.8%) exact matches, in which:  
3061 unique CDR3  
12 unique J



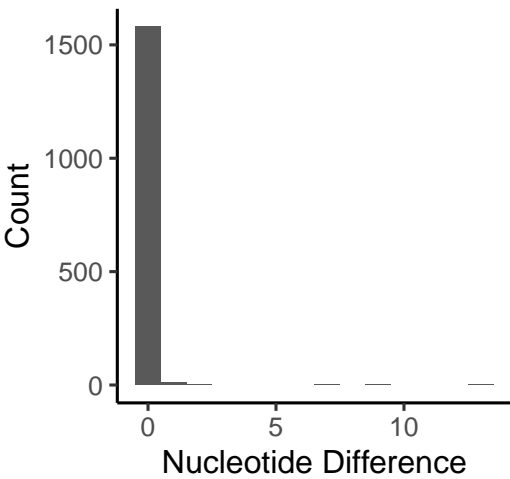
TRBV5-5\*ap01

1874 sequences assigned  
1872 (99.9%) exact matches, in which:  
1871 unique CDR3  
12 unique J



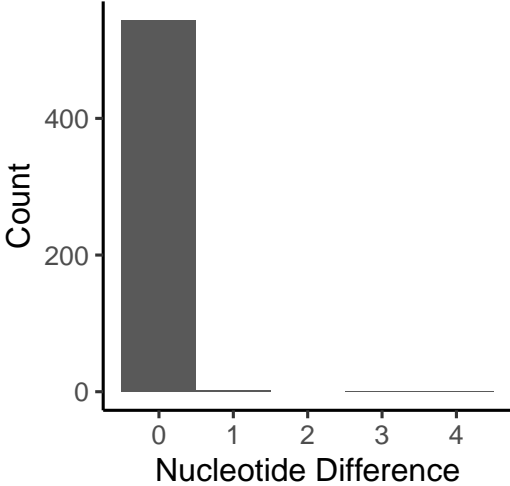
TRBV5-8\*ap01

1593 sequences assigned  
1580 (99.2%) exact matches, in which:  
1580 unique CDR3  
12 unique J



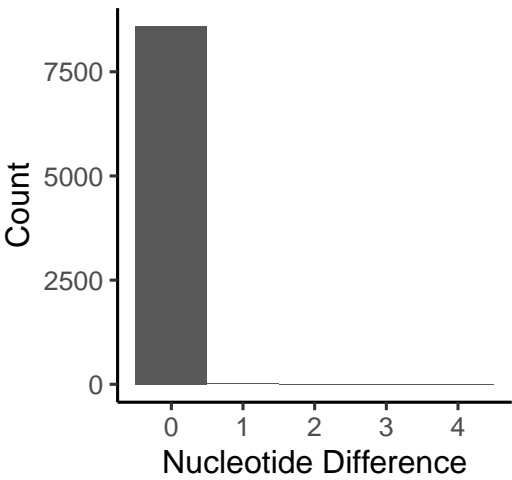
TRBV6-7\*ap01

548 sequences assigned  
544 (99.3%) exact matches, in which:  
543 unique CDR3  
12 unique J



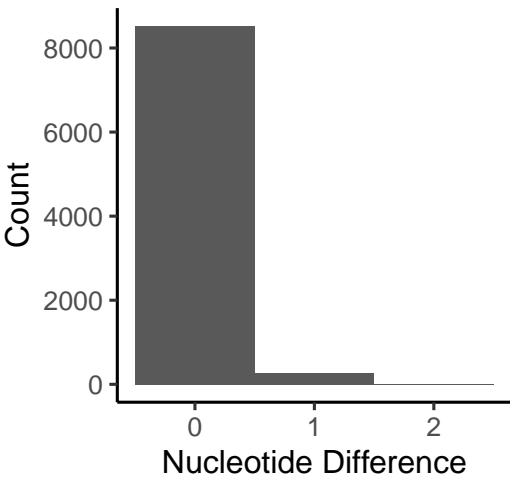
TRBV5-6\*ap01

8622 sequences assigned  
8597 (99.7%) exact matches, in which:  
8573 unique CDR3  
13 unique J



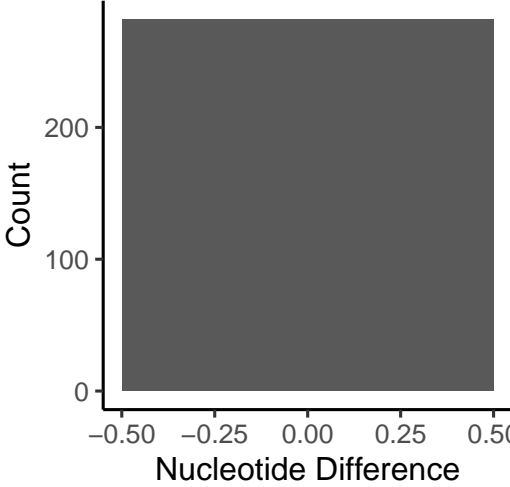
TRBV6-1\*ap01

8797 sequences assigned  
8522 (96.9%) exact matches, in which:  
8514 unique CDR3  
13 unique J



TRBV6-8\*ap01

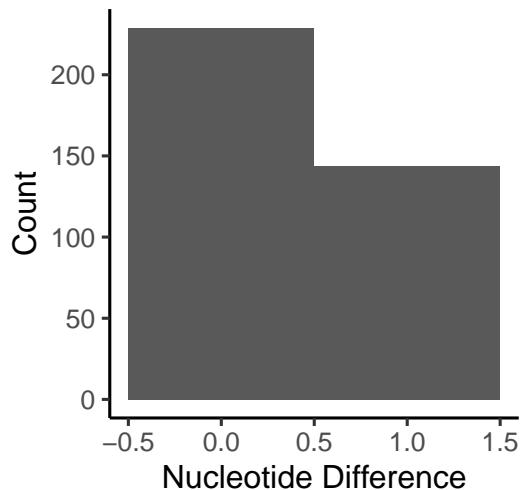
282 sequences assigned  
282 (100%) exact matches, in which:  
282 unique CDR3  
12 unique J





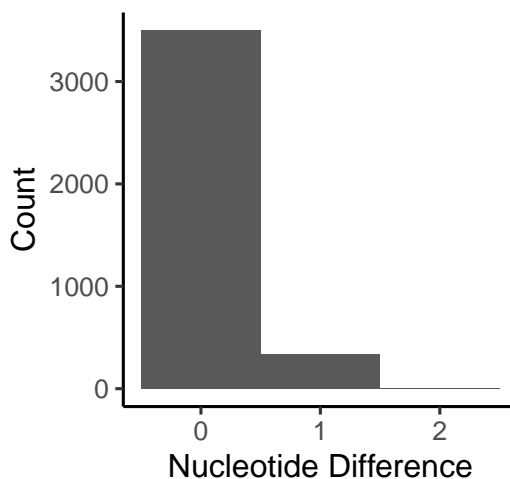
### TRBV6–9\*ap01

373 sequences assigned  
229 (61.4%) exact matches, in which:  
229 unique CDR3  
12 unique J



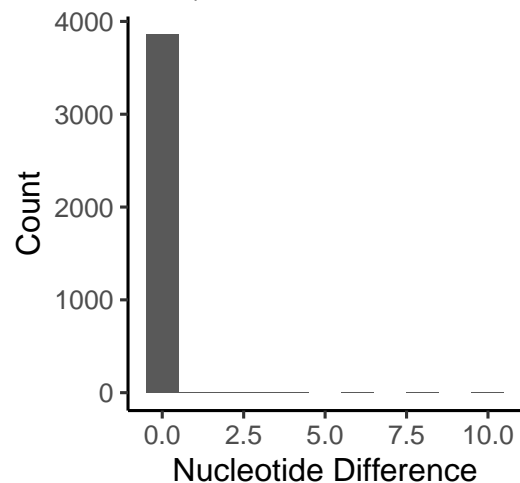
### TRBV6–56\*ap02

3841 sequences assigned  
3499 (91.1%) exact matches, in which:  
3494 unique CDR3  
13 unique J



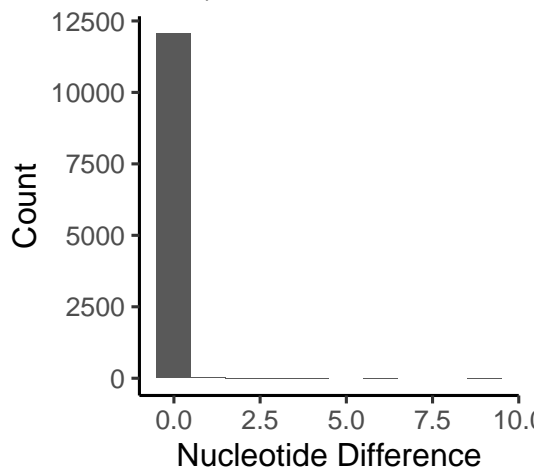
### TRBV7–3\*ap01

3874 sequences assigned  
3860 (99.6%) exact matches, in which:  
3860 unique CDR3  
12 unique J



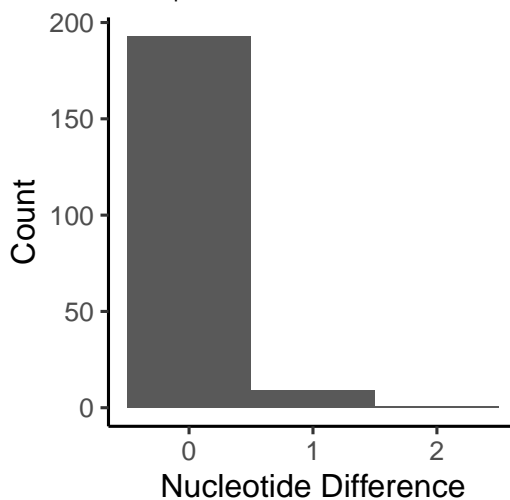
### TRBV6–23\*ap01

12101 sequences assigned  
12062 (99.7%) exact matches, in which:  
12041 unique CDR3  
14 unique J



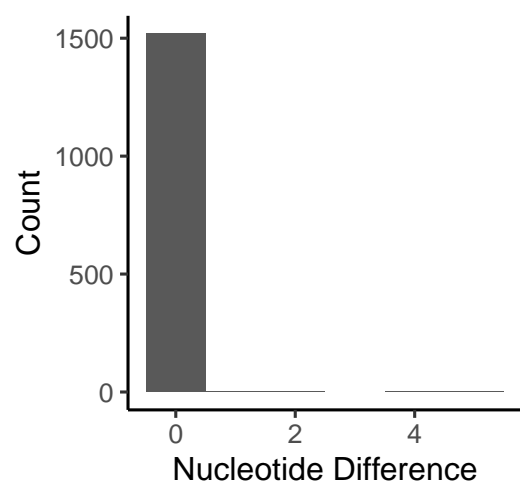
### TRBV7–1\*ap01\_G291C\_

203 sequences assigned  
193 (95.1%) exact matches, in which:  
193 unique CDR3  
12 unique J



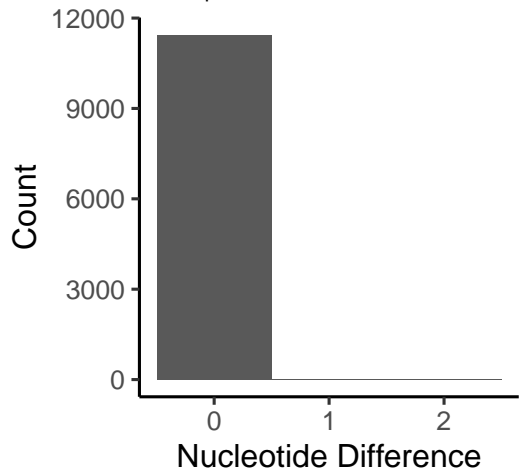
### TRBV7–3\*ap01\_G292T

1523 sequences assigned  
1519 (99.7%) exact matches, in which:  
1519 unique CDR3  
12 unique J



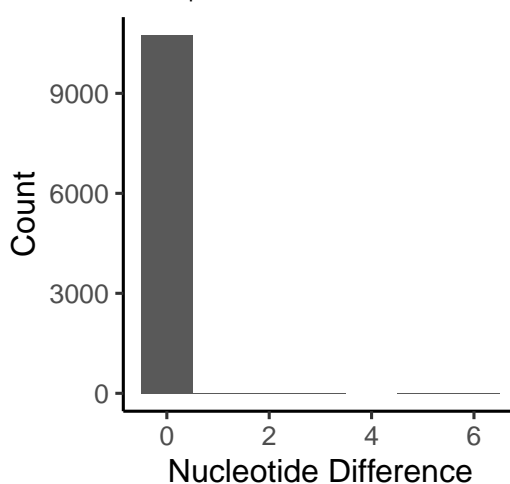
### TRBV6–56\*ap01

11467 sequences assigned  
11445 (99.8%) exact matches, in which:  
11429 unique CDR3  
13 unique J



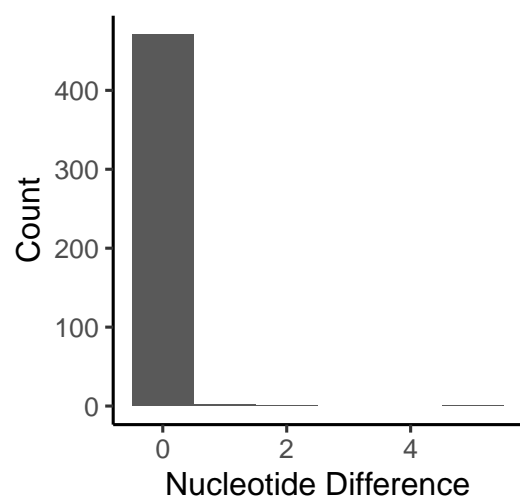
### TRBV7–2\*ap01

10769 sequences assigned  
10749 (99.8%) exact matches, in which:  
10748 unique CDR3  
13 unique J



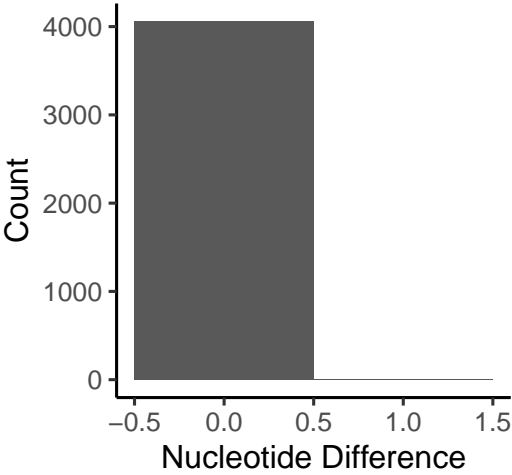
### TRBV7–4\*ap01

475 sequences assigned  
471 (99.2%) exact matches, in which:  
470 unique CDR3  
12 unique J



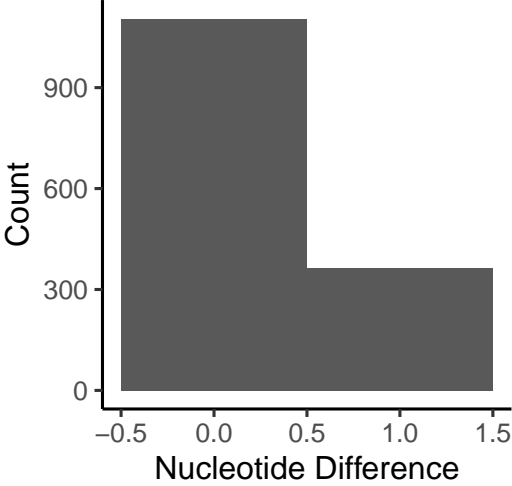
TRBV7-6\*ap01

4069 sequences assigned  
4059 (99.8%) exact matches, in which:  
4058 unique CDR3  
12 unique J



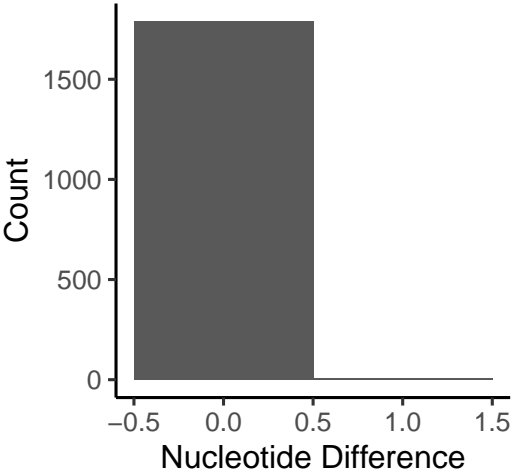
TRBV7-8\*ap03

1470 sequences assigned  
1105 (75.2%) exact matches, in which:  
1104 unique CDR3  
12 unique J



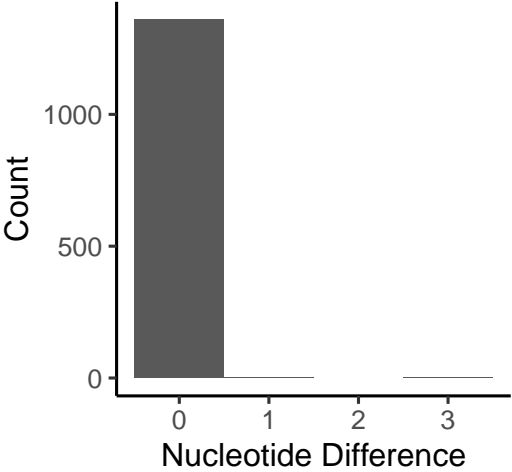
TRBV29-1\*ap02

1795 sequences assigned  
1789 (99.7%) exact matches, in which:  
1789 unique CDR3  
13 unique J



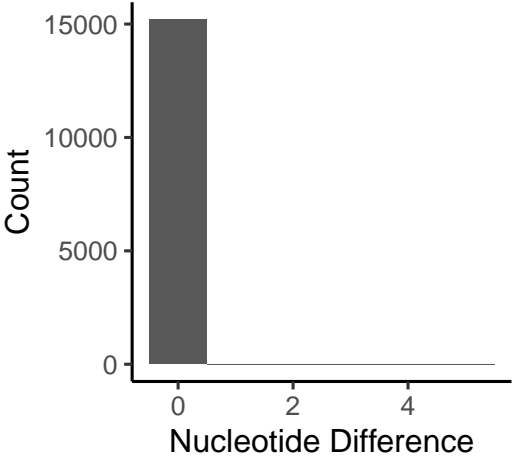
TRBV7-7\*ap01\_C315T

1361 sequences assigned  
1359 (99.9%) exact matches, in which:  
1358 unique CDR3  
12 unique J



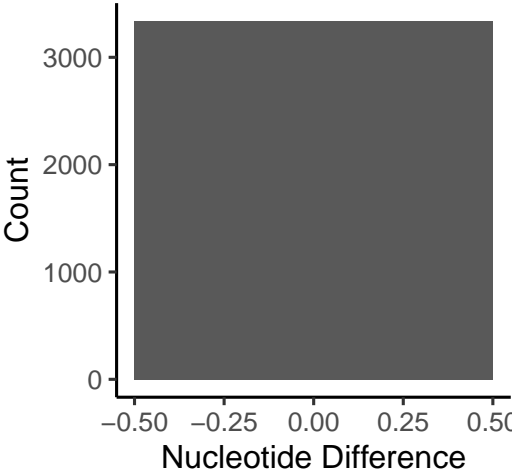
TRBV7-9\*ap01

15225 sequences assigned  
15203 (99.9%) exact matches, in which:  
15203 unique CDR3  
12 unique J



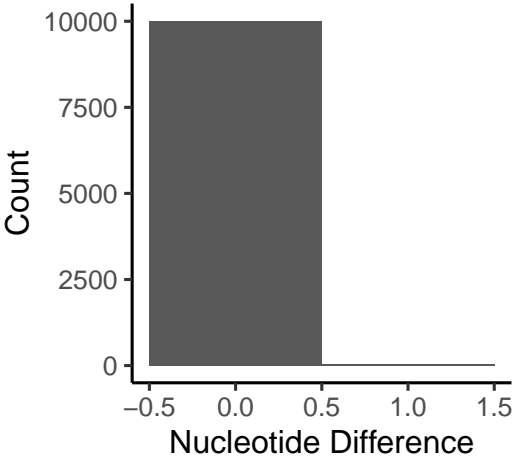
TRBV7-8\*ap01

3338 sequences assigned  
3338 (100%) exact matches, in which:  
3337 unique CDR3  
12 unique J

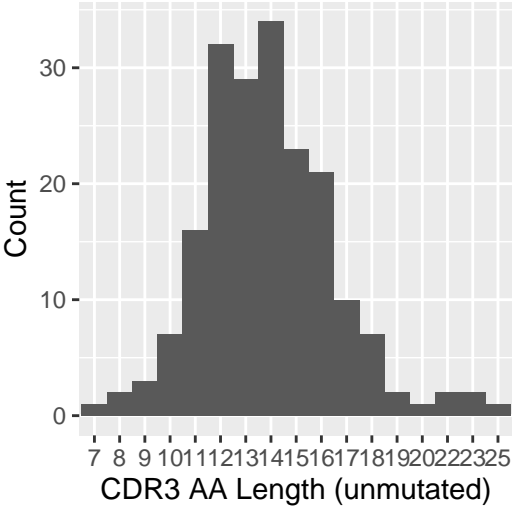


TRBV29-1\*ap01

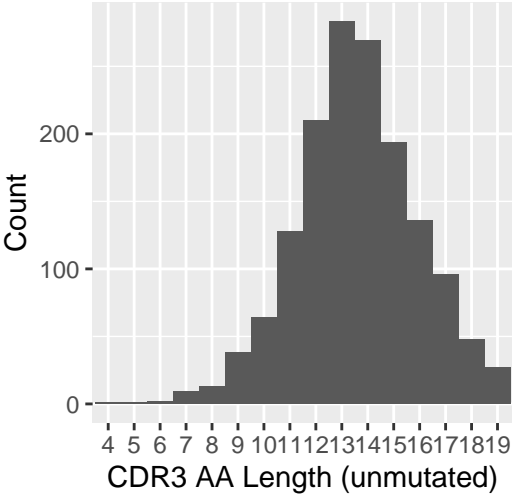
10064 sequences assigned  
10014 (99.5%) exact matches, in which:  
9987 unique CDR3  
13 unique J



TRBV7-1\*ap01\_G291C\_T296C



TRBV7-3\*ap01\_G292T



TRBV7-7\*ap01\_C315T

