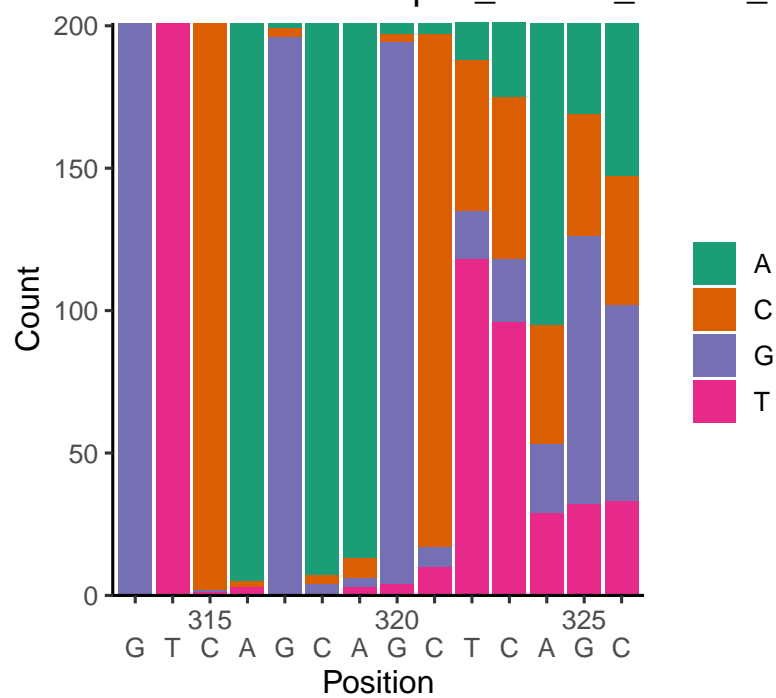
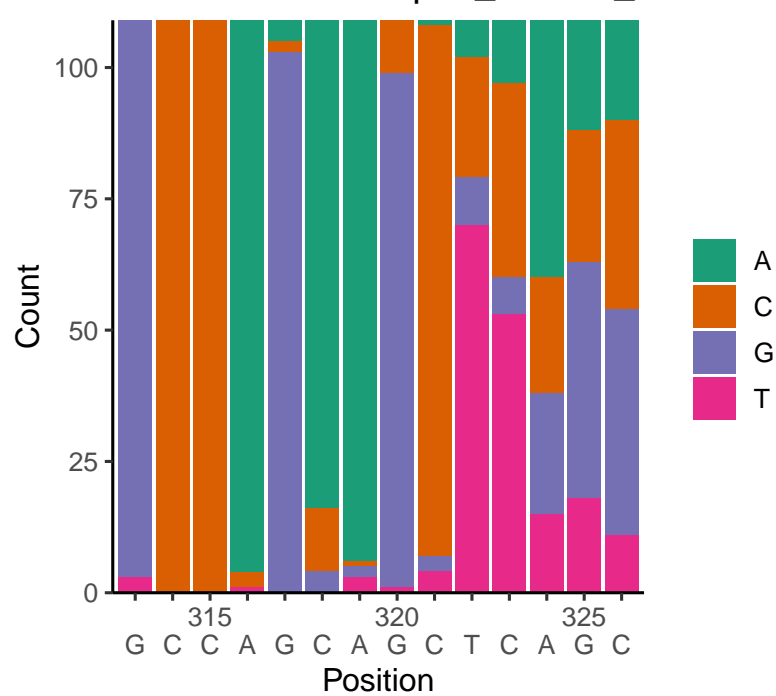


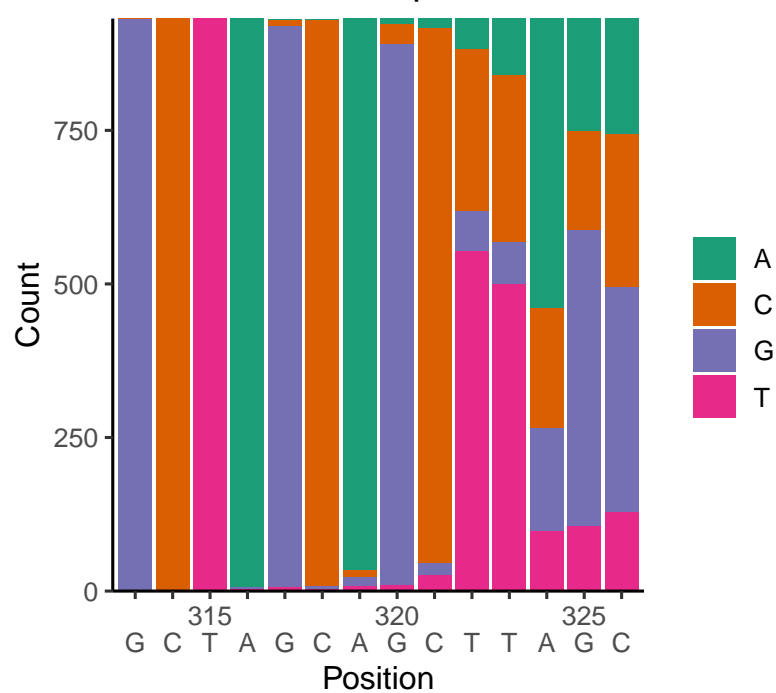
Gene TRBV7-1\*ap01\_G291C\_T296C\_C314T



Gene TRBV7-1\*ap01\_G291C\_T296C



Gene TRBV7-7\*ap01\_C315T



Gene TRBV7-1\*ap01\_G291C\_T296C\_C314T



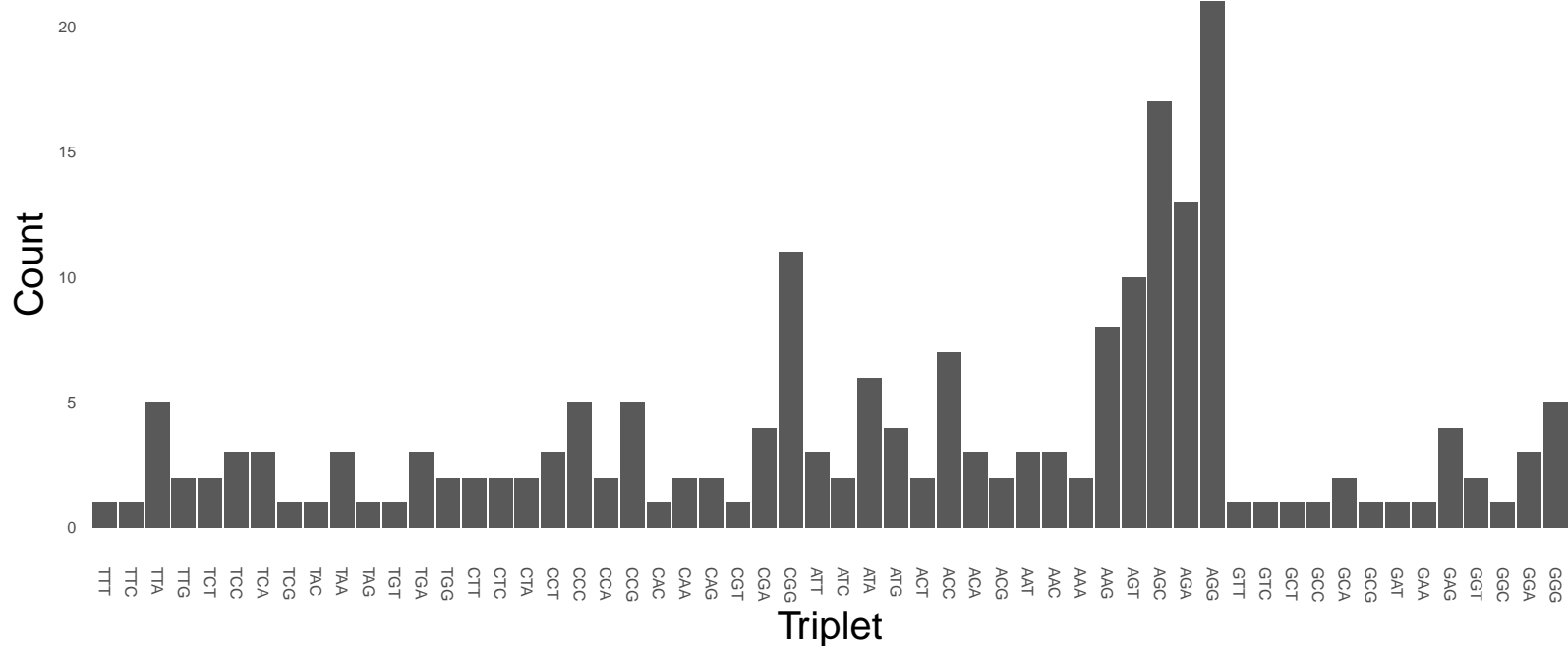
Gene TRBV7-1\*ap01\_G291C\_T296C



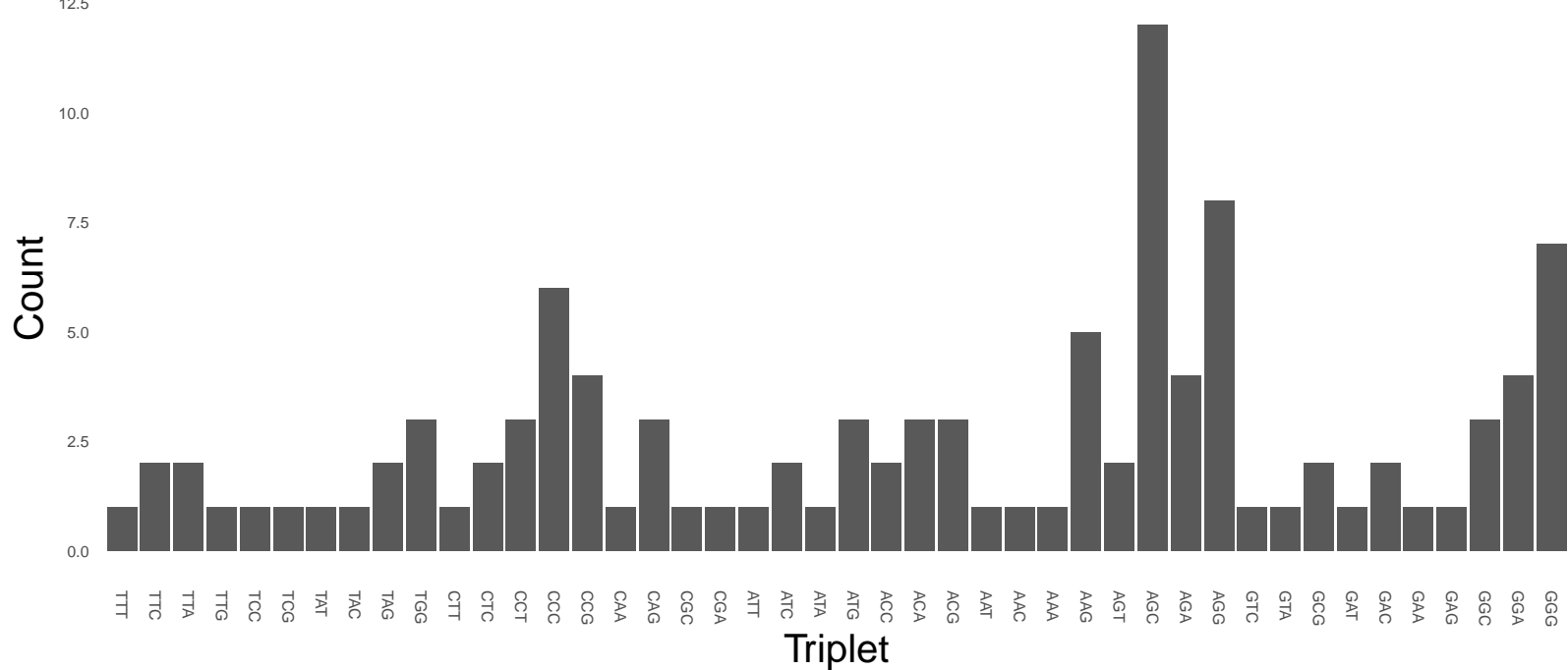
Gene TRBV7-7\*ap01\_C315T



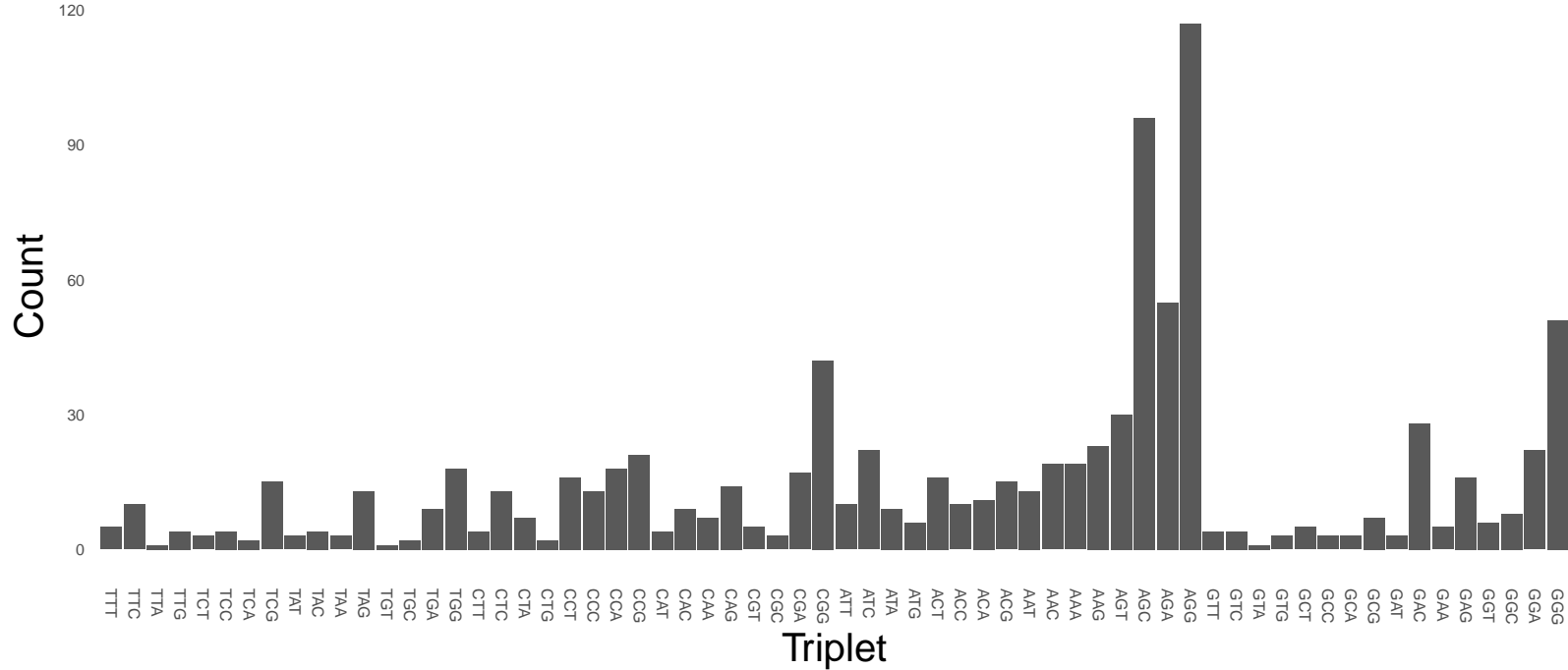
TRBV7-1\*ap01\_G291C\_T296C\_C314T- Final 3 nucleotides as a triplet



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

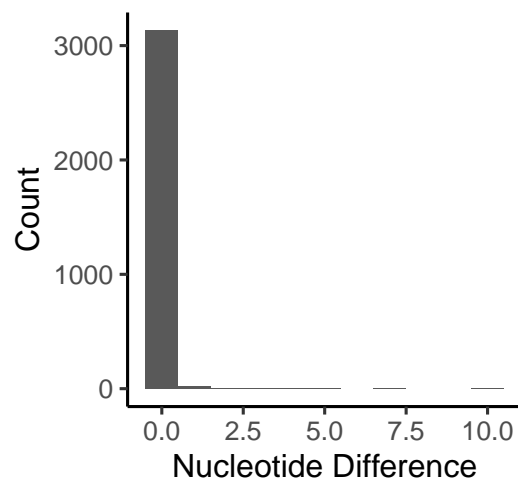


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



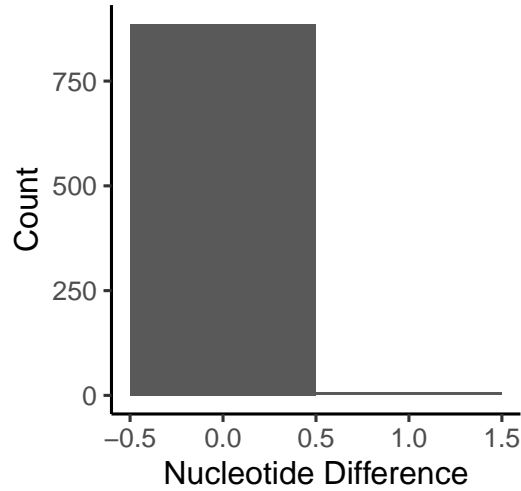
### TRBV10-1\*ap01

3171 sequences assigned  
3133 (98.8%) exact matches, in which:  
3066 unique CDR3  
13 unique J



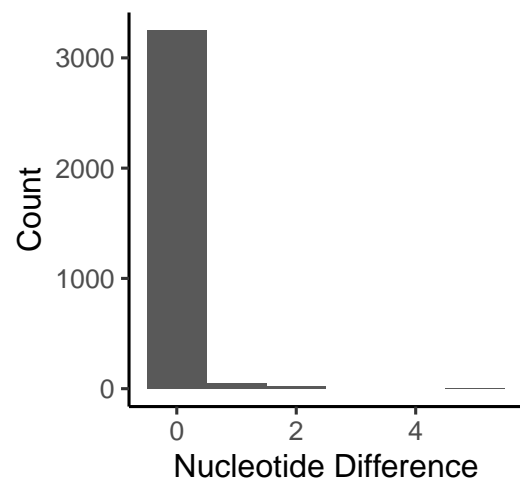
### TRBV10-2\*ap01

894 sequences assigned  
887 (99.2%) exact matches, in which:  
876 unique CDR3  
13 unique J



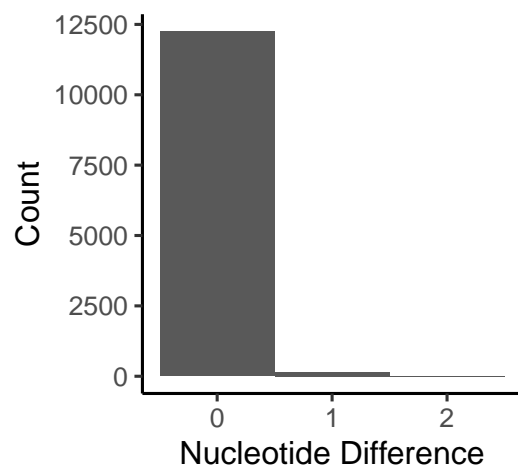
### TRBV13\*ap01

3316 sequences assigned  
3249 (98%) exact matches, in which:  
3163 unique CDR3  
13 unique J



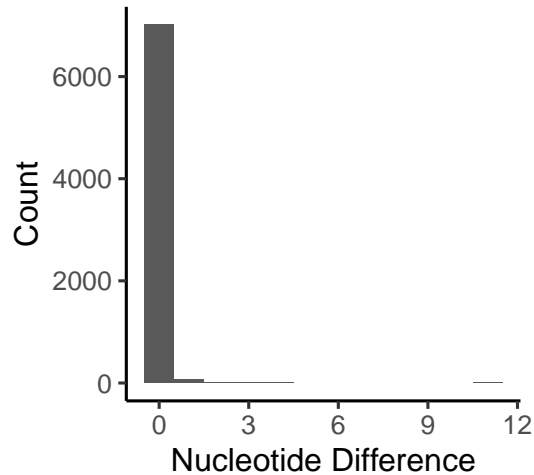
### TRBV20-1\*ap01

12404 sequences assigned  
12249 (98.8%) exact matches, in which:  
12080 unique CDR3  
13 unique J



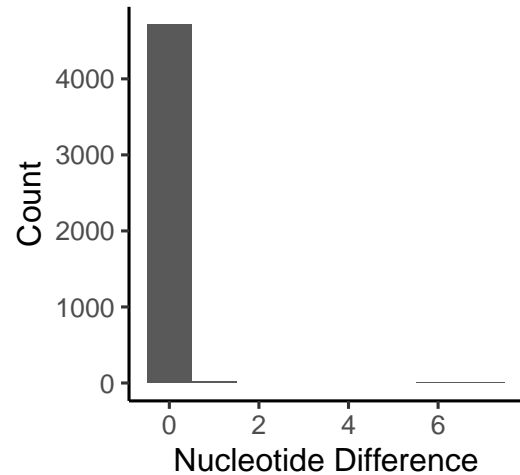
### TRBV10-3\*ap01

7086 sequences assigned  
7015 (99%) exact matches, in which:  
6893 unique CDR3  
13 unique J



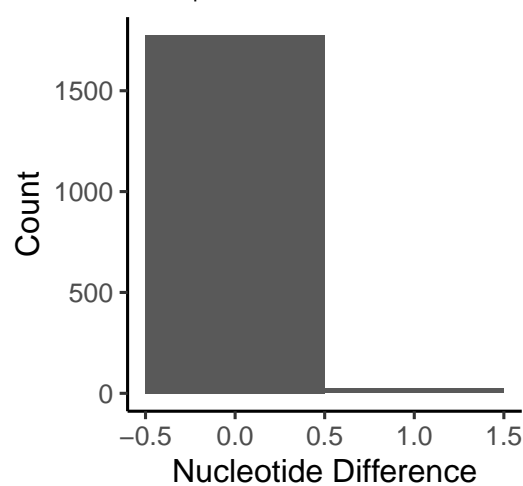
### TRBV14\*ap01

4735 sequences assigned  
4712 (99.5%) exact matches, in which:  
4659 unique CDR3  
13 unique J



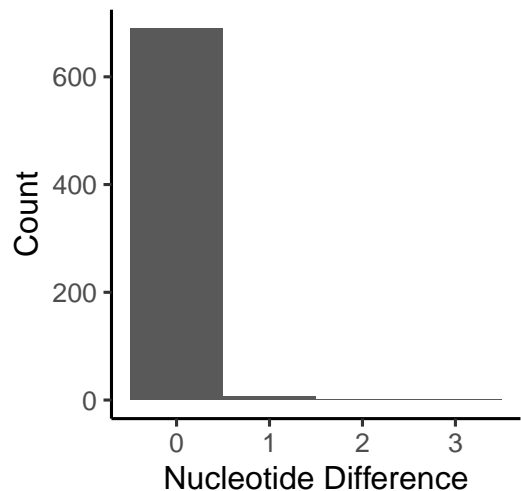
### TRBV20-1\*ap02

1800 sequences assigned  
1776 (98.7%) exact matches, in which:  
1753 unique CDR3  
13 unique J



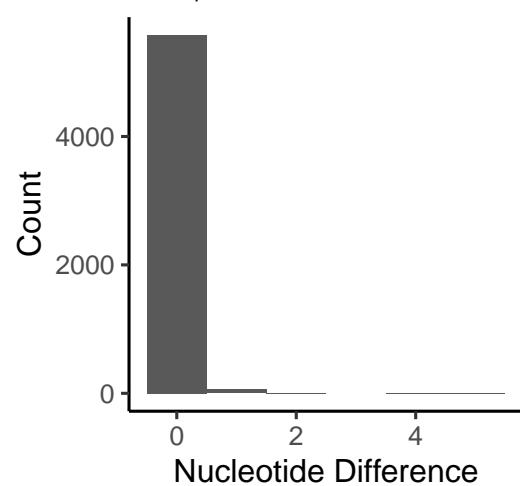
### TRBV1\*ap01

698 sequences assigned  
690 (98.9%) exact matches, in which:  
663 unique CDR3  
13 unique J



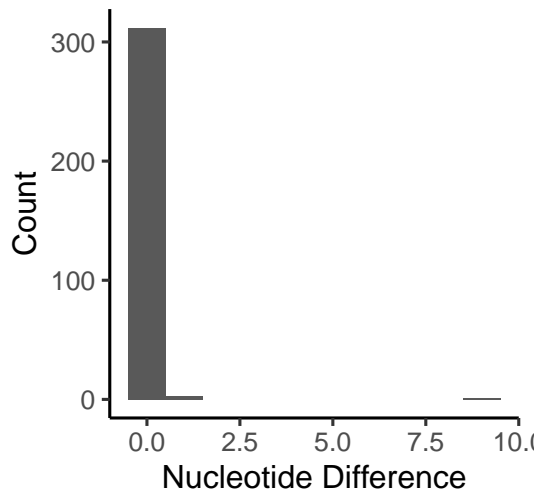
### TRBV15\*ap02

5646 sequences assigned  
5580 (98.8%) exact matches, in which:  
5478 unique CDR3  
13 unique J



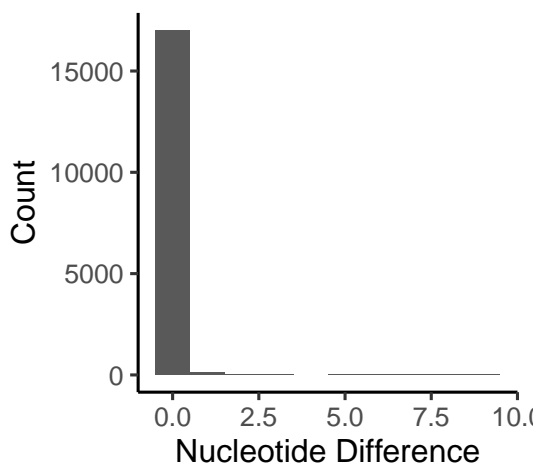
### TRBV16\*ap01

316 sequences assigned  
312 (98.7%) exact matches, in which:  
307 unique CDR3  
13 unique J



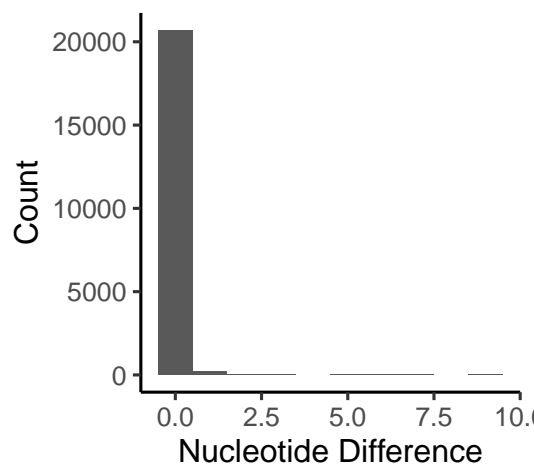
### TRBV19\*ap01

17152 sequences assigned  
17016 (99.2%) exact matches, in which:  
16888 unique CDR3  
13 unique J



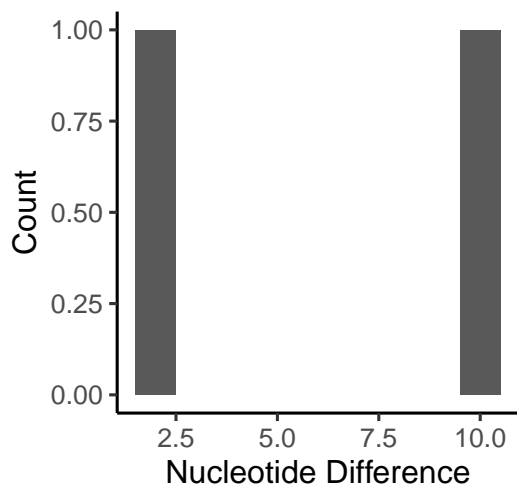
### TRBV27\*ap01

20949 sequences assigned  
20699 (98.8%) exact matches, in which:  
20222 unique CDR3  
13 unique J



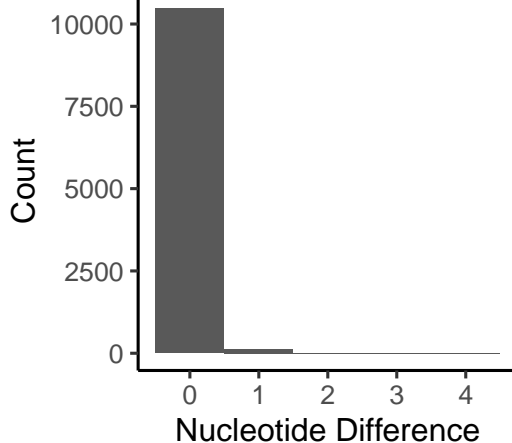
### TRBV17\*ap01

2 sequences assigned  
No exact matches.



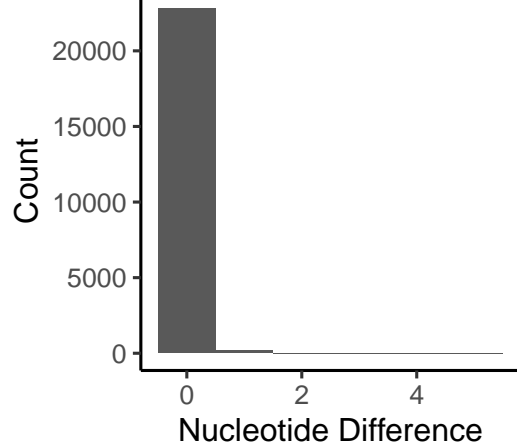
### TRBV2\*ap01

10616 sequences assigned  
10472 (98.6%) exact matches, in which:  
10260 unique CDR3  
13 unique J



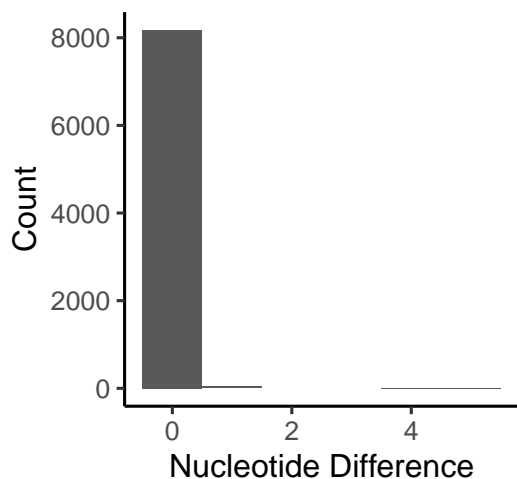
### TRBV28\*ap01

23003 sequences assigned  
22803 (99.1%) exact matches, in which:  
22540 unique CDR3  
13 unique J



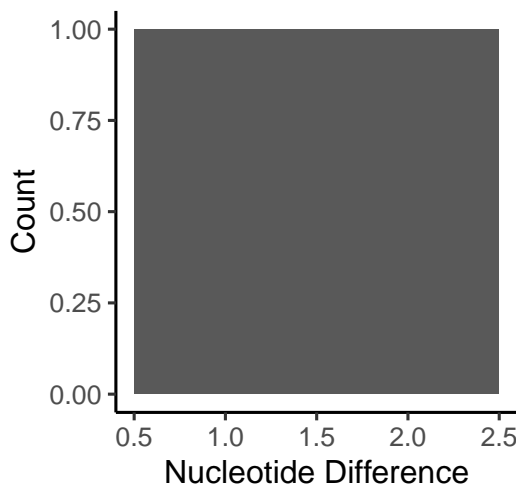
### TRBV18\*ap01

8223 sequences assigned  
8176 (99.4%) exact matches, in which:  
8123 unique CDR3  
13 unique J



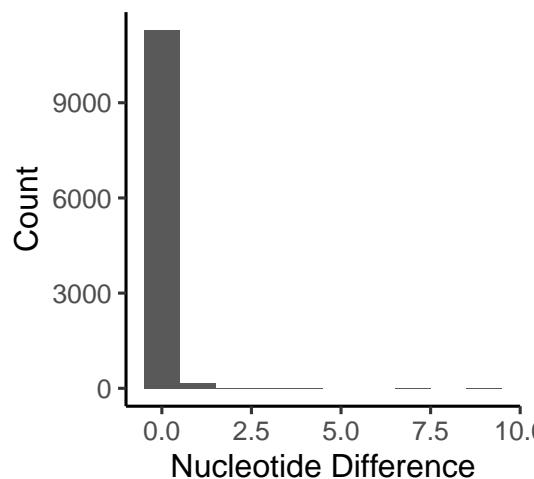
### TRBV26\*ap01

2 sequences assigned  
No exact matches.



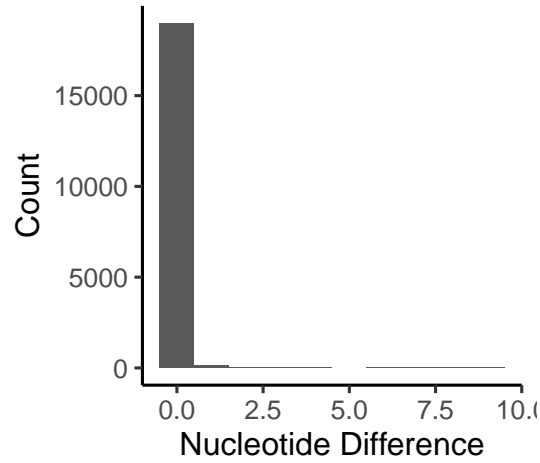
### TRBV30\*ap01

11480 sequences assigned  
11291 (98.4%) exact matches, in which:  
10999 unique CDR3  
13 unique J



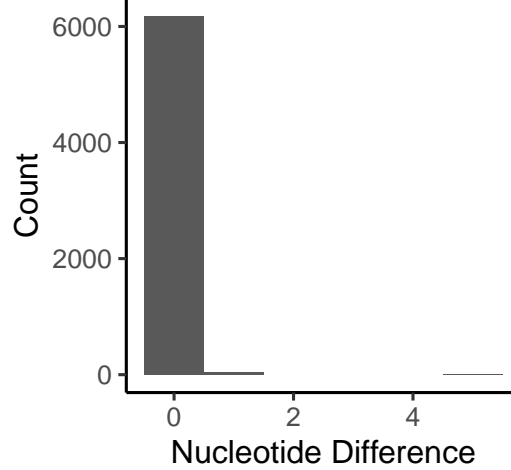
### TRBV9\*ap01

19153 sequences assigned  
18992 (99.2%) exact matches, in which:  
18730 unique CDR3  
13 unique J



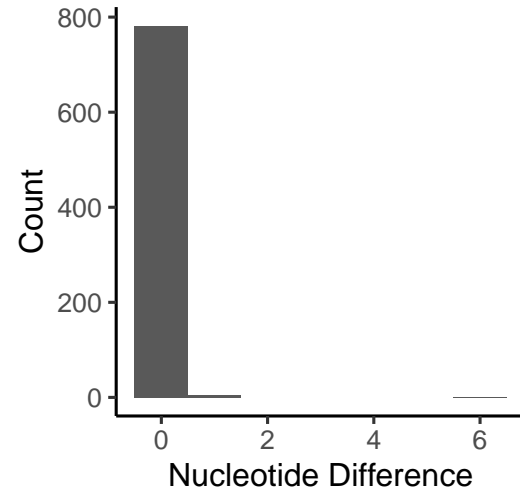
### TRBV11-2\*ap01

6214 sequences assigned  
6173 (99.3%) exact matches, in which:  
6118 unique CDR3  
13 unique J



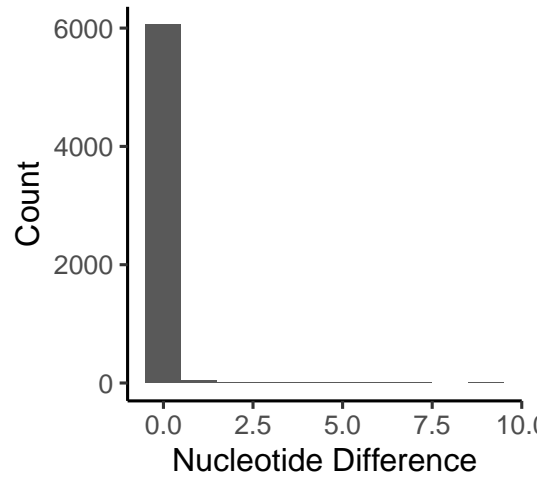
### TRBV12-2\*ap01

788 sequences assigned  
782 (99.2%) exact matches, in which:  
775 unique CDR3  
13 unique J



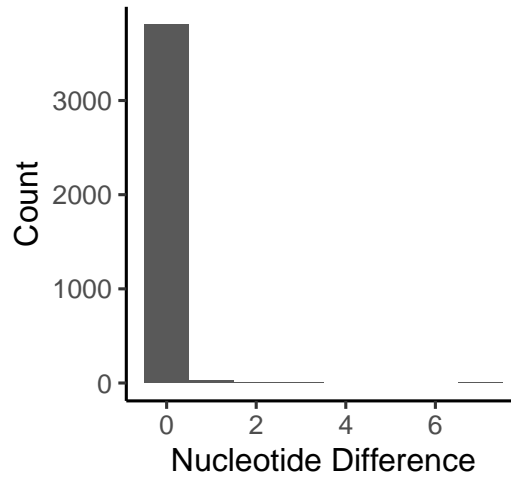
### TRBV21-1\*ap01

6130 sequences assigned  
6057 (98.8%) exact matches, in which:  
6014 unique CDR3  
13 unique J



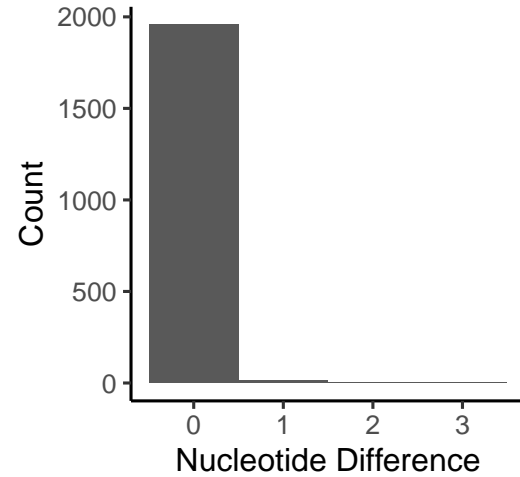
### TRBV11-3\*ap01

3834 sequences assigned  
3805 (99.2%) exact matches, in which:  
3764 unique CDR3  
13 unique J



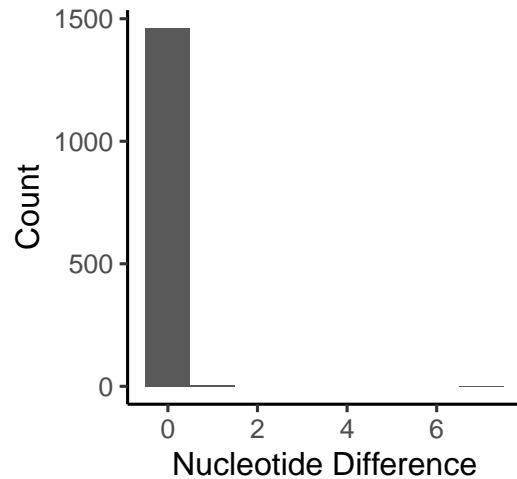
### TRBV12-5\*ap01

1972 sequences assigned  
1957 (99.2%) exact matches, in which:  
1925 unique CDR3  
13 unique J



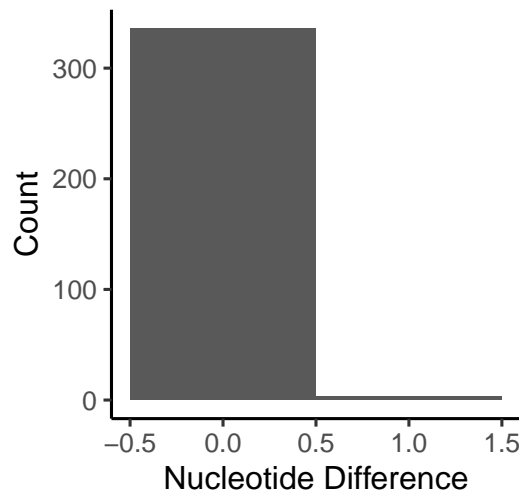
### TRBV11-1\*ap01

1469 sequences assigned  
1462 (99.5%) exact matches, in which:  
1449 unique CDR3  
13 unique J



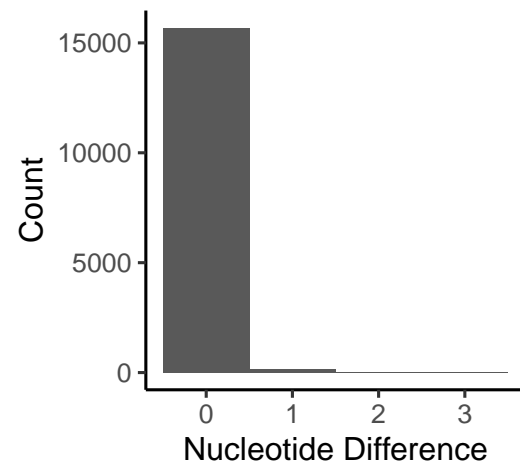
### TRBV12-1\*ap01

339 sequences assigned  
336 (99.1%) exact matches, in which:  
334 unique CDR3  
13 unique J



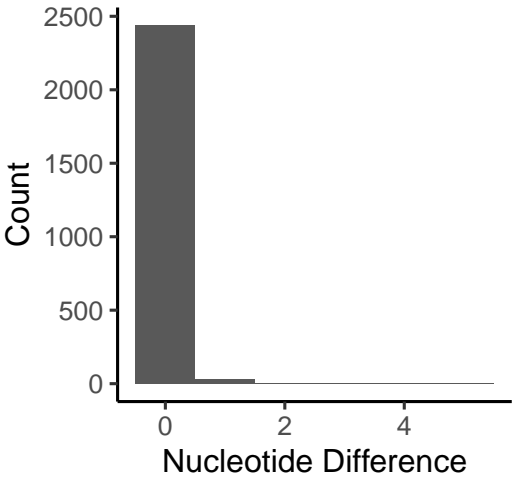
### TRBV12-34\*ap01

15850 sequences assigned  
15687 (99%) exact matches, in which:  
15440 unique CDR3  
13 unique J



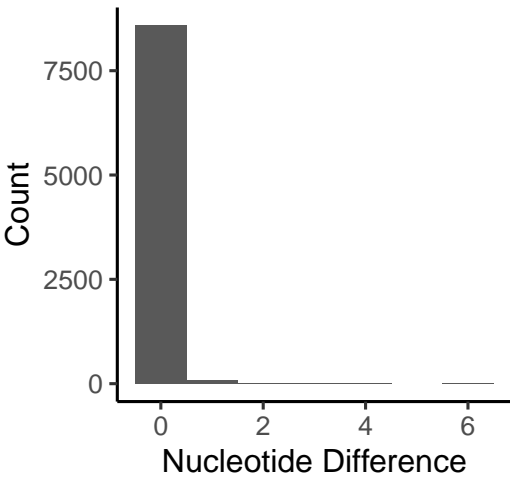
TRBV23-1\*ap01

2476 sequences assigned  
2438 (98.5%) exact matches, in which:  
2411 unique CDR3  
13 unique J



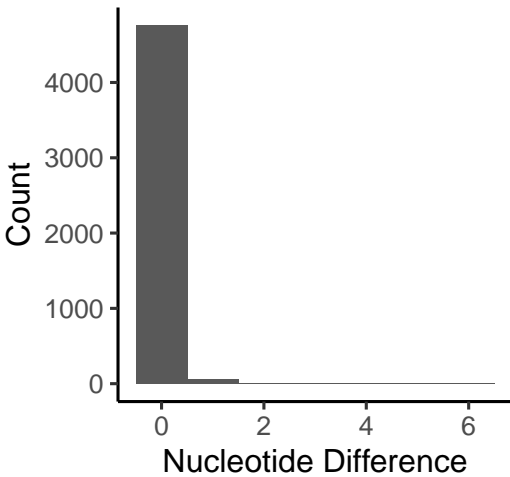
TRBV24-1\*ap01

8688 sequences assigned  
8585 (98.8%) exact matches, in which:  
8416 unique CDR3  
13 unique J



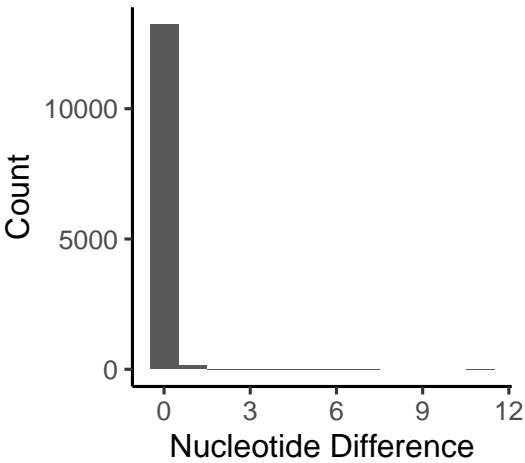
TRBV25-1\*ap01

4835 sequences assigned  
4758 (98.4%) exact matches, in which:  
4653 unique CDR3  
13 unique J



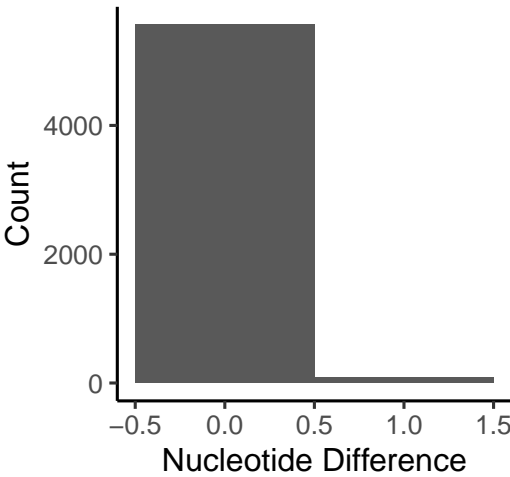
TRBV3-12\*ap01

13388 sequences assigned  
13234 (98.8%) exact matches, in which:  
13023 unique CDR3  
13 unique J



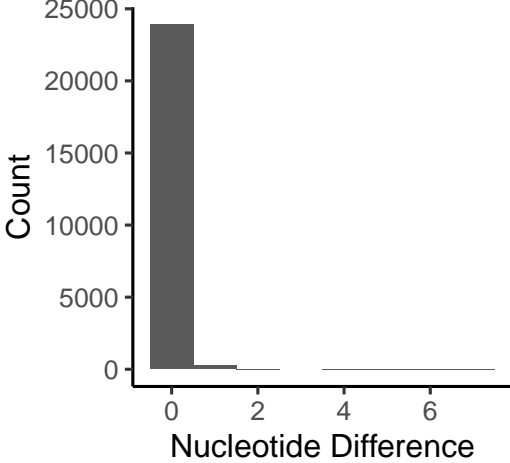
TRBV4-2\*ap01

5642 sequences assigned  
5564 (98.6%) exact matches, in which:  
5452 unique CDR3  
13 unique J



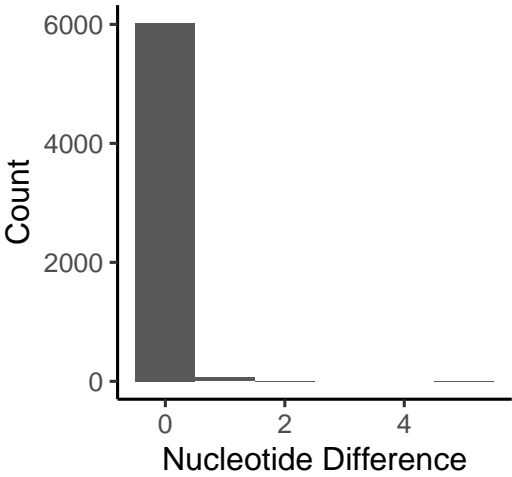
TRBV5-1\*ap01

24191 sequences assigned  
23913 (98.9%) exact matches, in which:  
23352 unique CDR3  
13 unique J



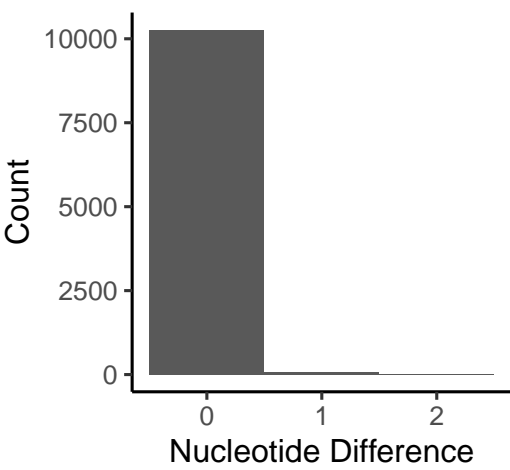
TRBV4-1\*ap01

6091 sequences assigned  
6023 (98.9%) exact matches, in which:  
5894 unique CDR3  
13 unique J



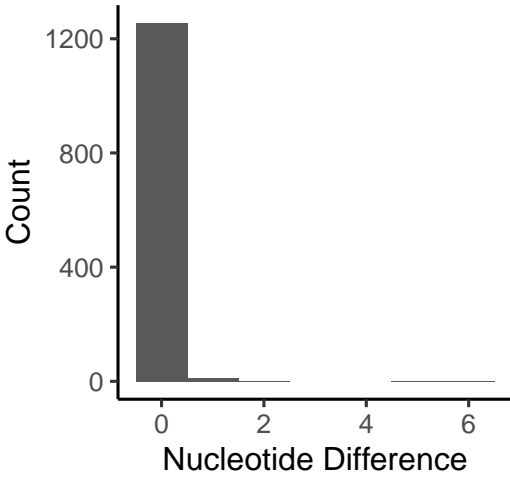
TRBV4-3\*ap01

10359 sequences assigned  
10268 (99.1%) exact matches, in which:  
10059 unique CDR3  
13 unique J



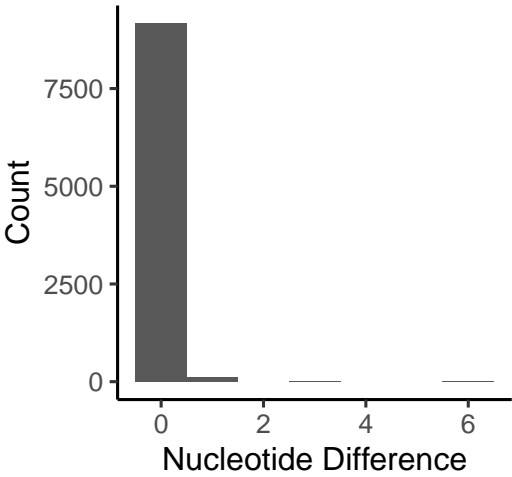
TRBV5-3\*ap01

1270 sequences assigned  
1255 (98.8%) exact matches, in which:  
1245 unique CDR3  
13 unique J



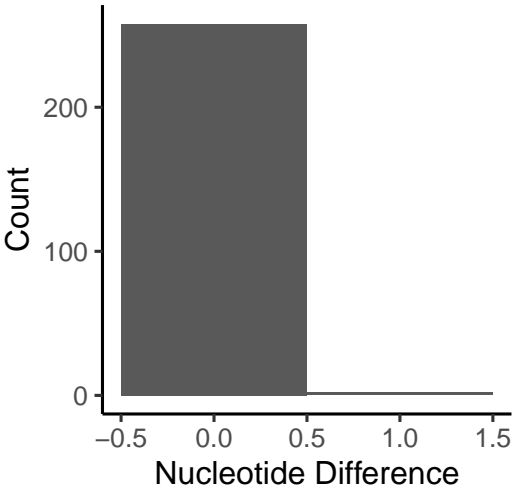
TRBV5-4\*ap01

9276 sequences assigned  
9167 (98.8%) exact matches, in which:  
8984 unique CDR3  
13 unique J



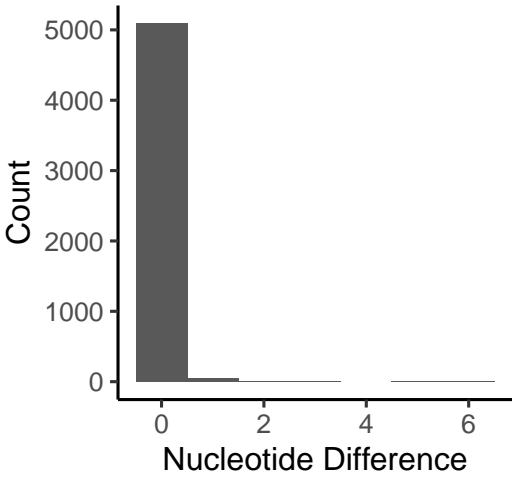
TRBV5-7\*ap01

260 sequences assigned  
258 (99.2%) exact matches, in which:  
252 unique CDR3  
13 unique J



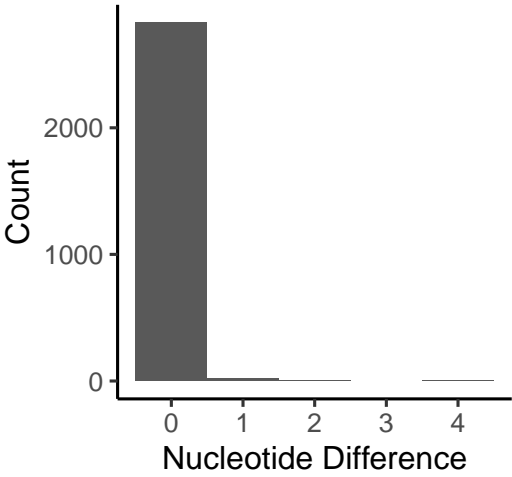
TRBV6-4\*ap01

5153 sequences assigned  
5092 (98.8%) exact matches, in which:  
5030 unique CDR3  
13 unique J



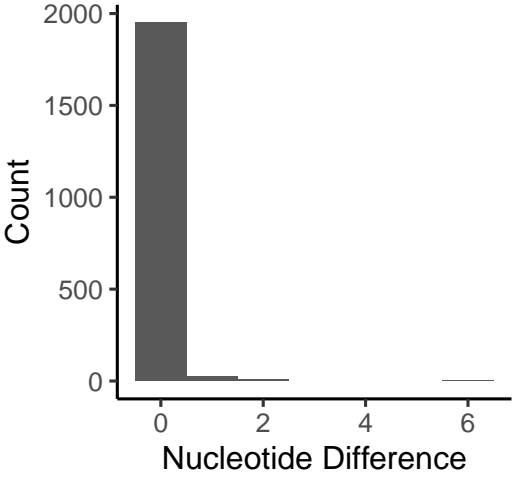
TRBV5-5\*ap01

2848 sequences assigned  
2830 (99.4%) exact matches, in which:  
2803 unique CDR3  
13 unique J



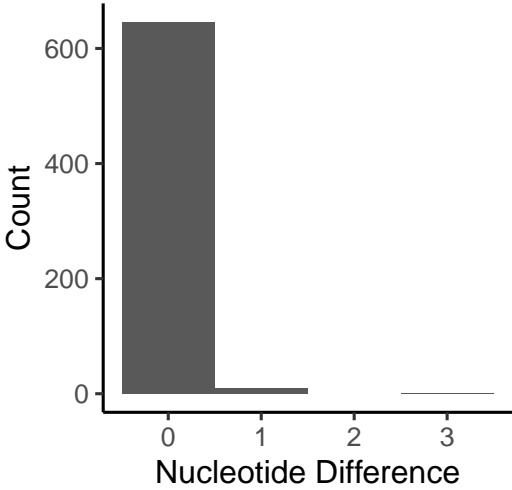
TRBV5-8\*ap01

1979 sequences assigned  
1950 (98.5%) exact matches, in which:  
1927 unique CDR3  
13 unique J



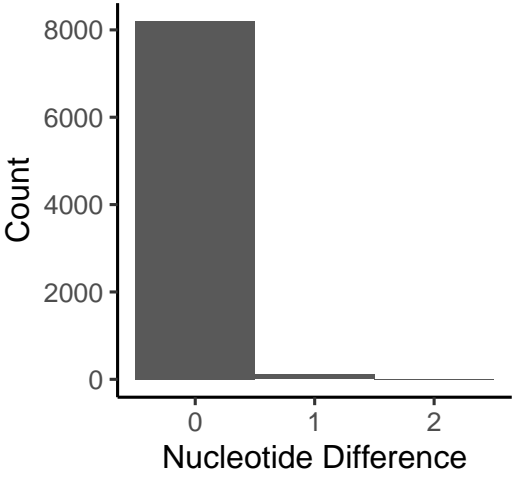
TRBV6-7\*ap01

657 sequences assigned  
646 (98.3%) exact matches, in which:  
631 unique CDR3  
13 unique J



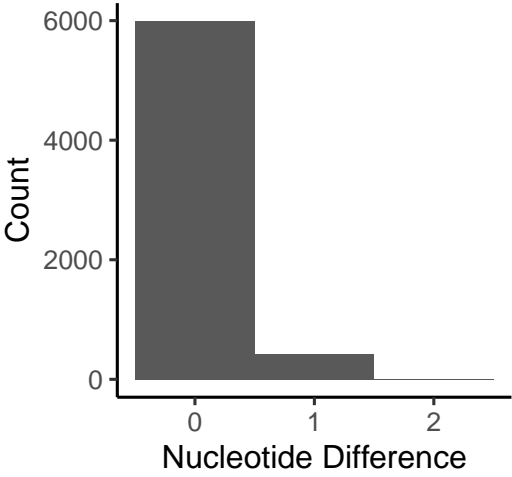
TRBV5-6\*ap01

8317 sequences assigned  
8202 (98.6%) exact matches, in which:  
7947 unique CDR3  
13 unique J



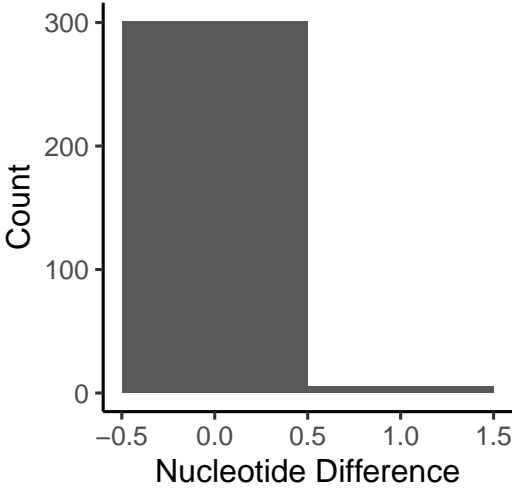
TRBV6-1\*ap01

6420 sequences assigned  
5993 (93.3%) exact matches, in which:  
5849 unique CDR3  
13 unique J



TRBV6-8\*ap01

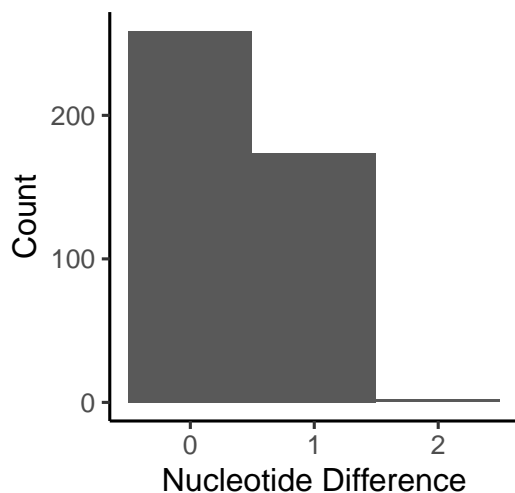
306 sequences assigned  
301 (98.4%) exact matches, in which:  
291 unique CDR3  
13 unique J





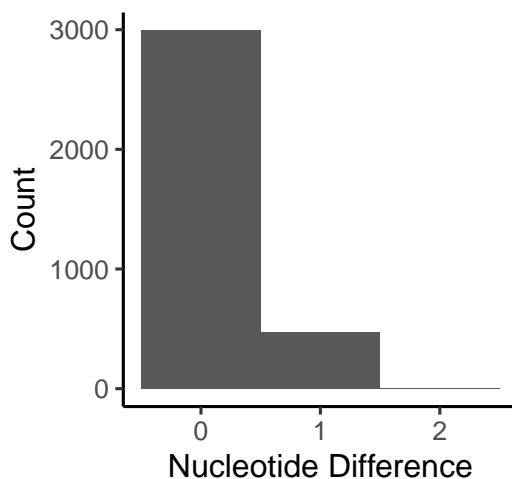
### TRBV6–9\*ap01

435 sequences assigned  
259 (59.5%) exact matches, in which:  
253 unique CDR3  
13 unique J



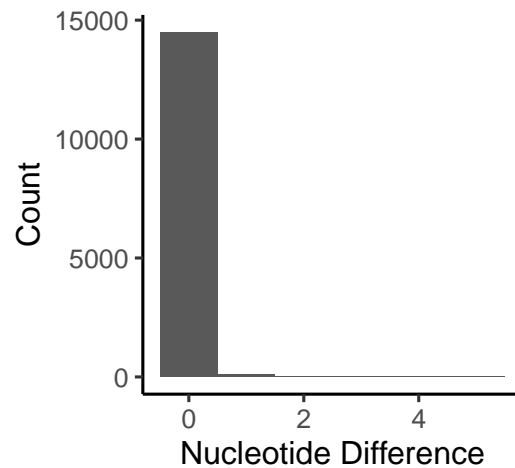
### TRBV6–56\*ap02

3474 sequences assigned  
2994 (86.2%) exact matches, in which:  
2916 unique CDR3  
13 unique J



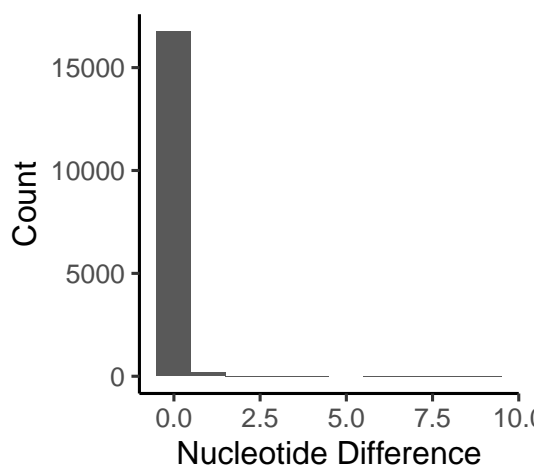
### TRBV7–2\*ap01

14595 sequences assigned  
14496 (99.3%) exact matches, in which:  
14340 unique CDR3  
13 unique J



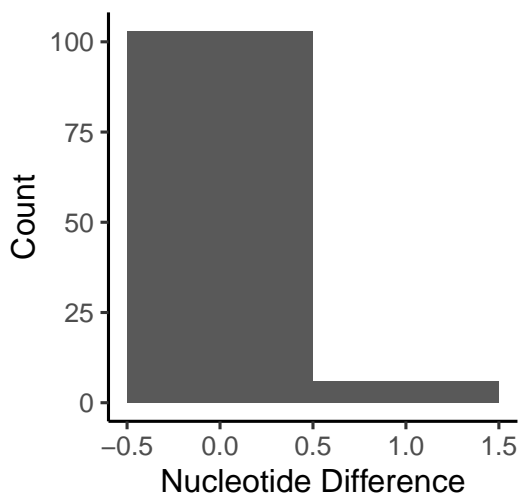
### TRBV6–23\*ap01

16968 sequences assigned  
16756 (98.8%) exact matches, in which:  
16284 unique CDR3  
13 unique J



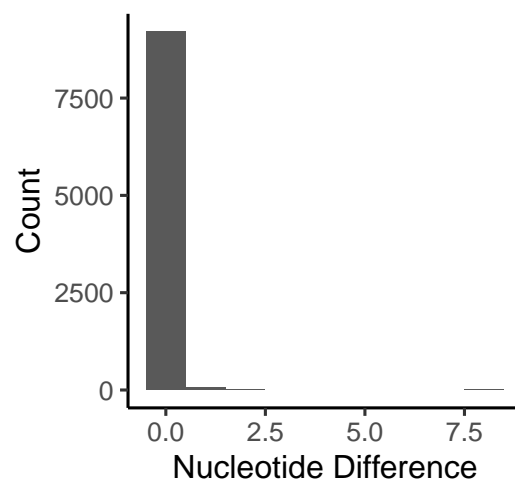
### TRBV7–1\*ap01\_G291C\_

109 sequences assigned  
103 (94.5%) exact matches, in which:  
103 unique CDR3  
13 unique J



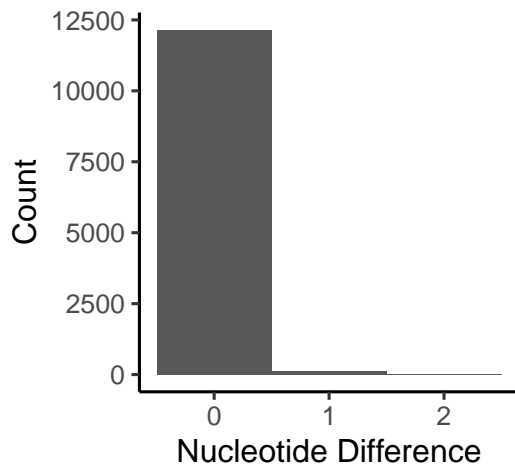
### TRBV7–3\*ap01

9280 sequences assigned  
9205 (99.2%) exact matches, in which:  
9113 unique CDR3  
13 unique J



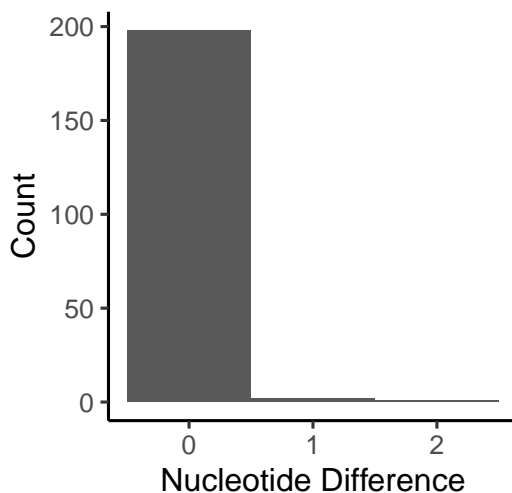
### TRBV6–56\*ap01

12283 sequences assigned  
12152 (98.9%) exact matches, in which:  
11810 unique CDR3  
13 unique J



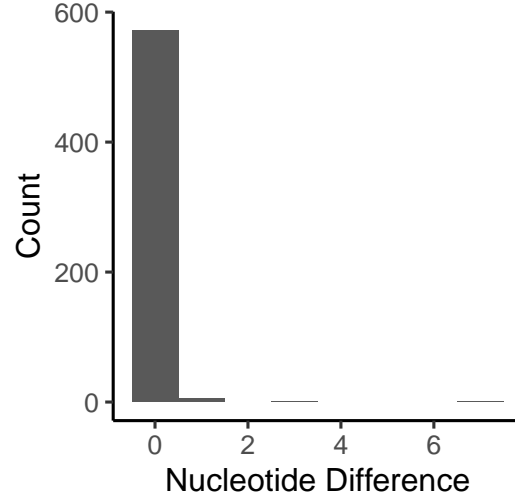
### TRBV7–1\*ap01\_G291C\_

201 sequences assigned  
198 (98.5%) exact matches, in which:  
196 unique CDR3  
12 unique J



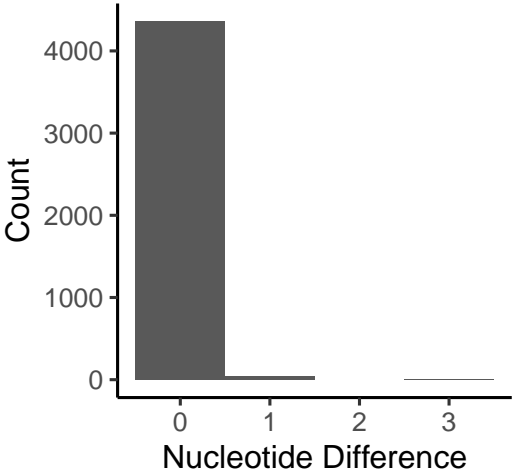
### TRBV7–4\*ap01

580 sequences assigned  
572 (98.6%) exact matches, in which:  
563 unique CDR3  
13 unique J



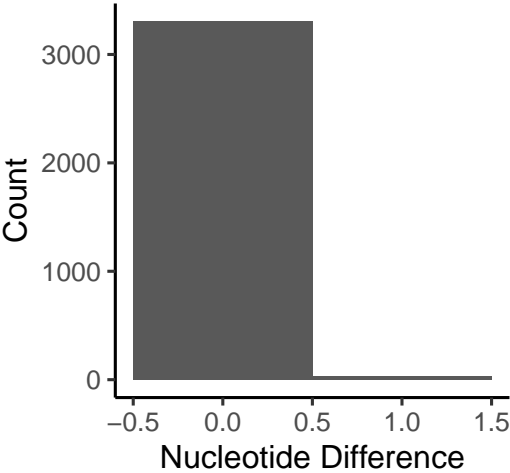
TRBV7-6\*ap01

4404 sequences assigned  
4359 (99%) exact matches, in which:  
4284 unique CDR3  
13 unique J



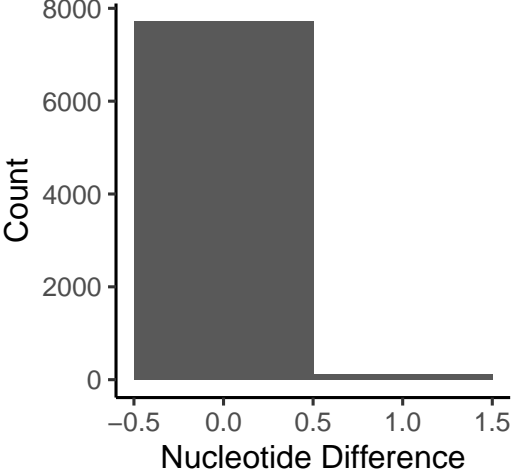
TRBV7-8\*ap01

3338 sequences assigned  
3305 (99%) exact matches, in which:  
3249 unique CDR3  
13 unique J



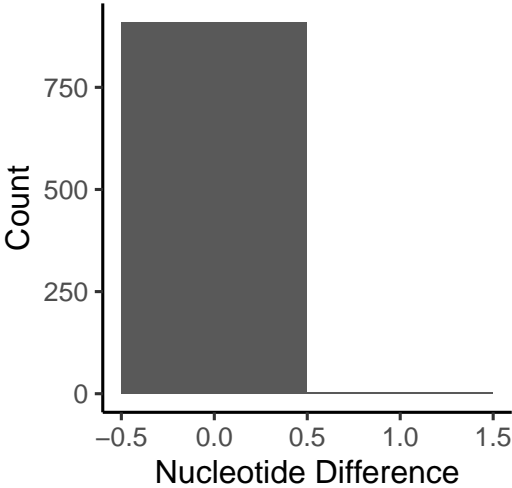
TRBV29-1\*ap01

7830 sequences assigned  
7718 (98.6%) exact matches, in which:  
7476 unique CDR3  
13 unique J



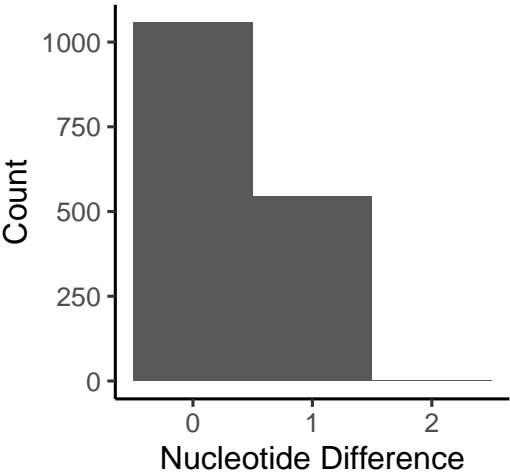
TRBV7-7\*ap01

913 sequences assigned  
910 (99.7%) exact matches, in which:  
895 unique CDR3  
13 unique J



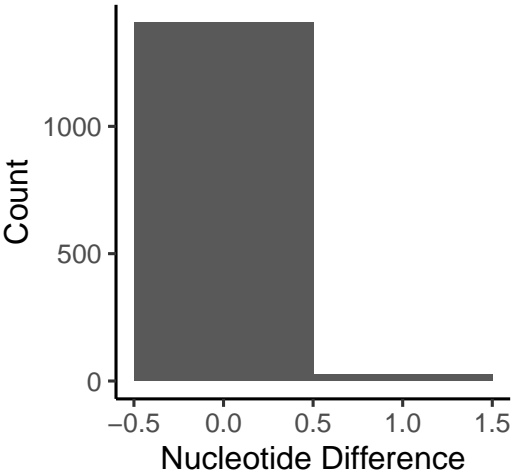
TRBV7-8\*ap03

1602 sequences assigned  
1057 (66%) exact matches, in which:  
1043 unique CDR3  
13 unique J



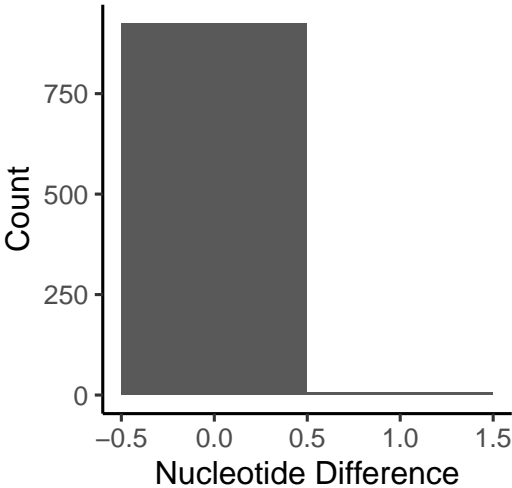
TRBV29-1\*ap02

1431 sequences assigned  
1407 (98.3%) exact matches, in which:  
1370 unique CDR3  
13 unique J



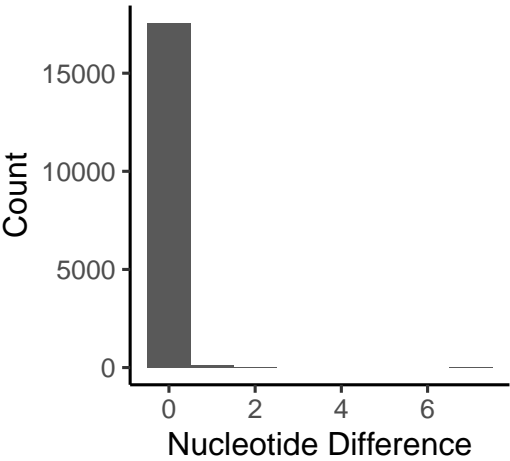
TRBV7-7\*ap01\_C315T

932 sequences assigned  
925 (99.2%) exact matches, in which:  
911 unique CDR3  
13 unique J

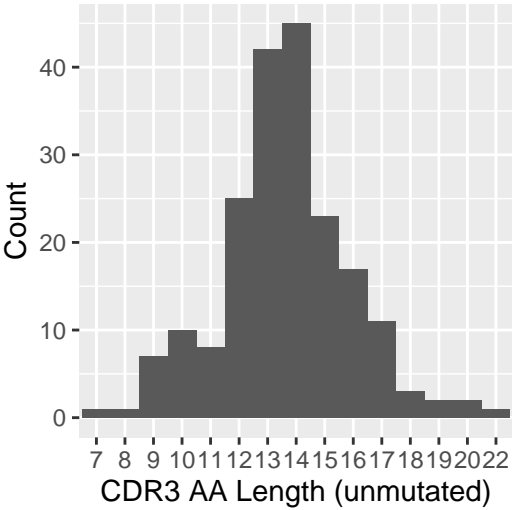


TRBV7-9\*ap01

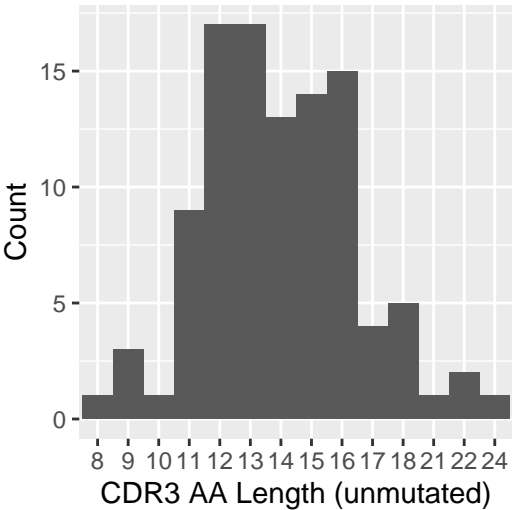
17708 sequences assigned  
17568 (99.2%) exact matches, in which:  
17356 unique CDR3  
13 unique J



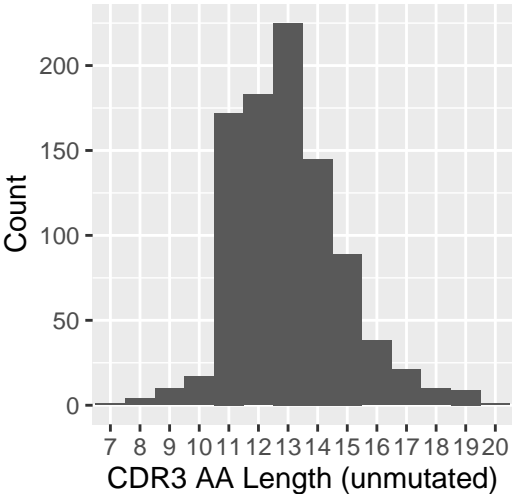
TRBV7-1\*ap01\_G291C\_T296C\_C314T



TRBV7-1\*ap01\_G291C\_T296C



TRBV7-7\*ap01\_C315T





[illegible]