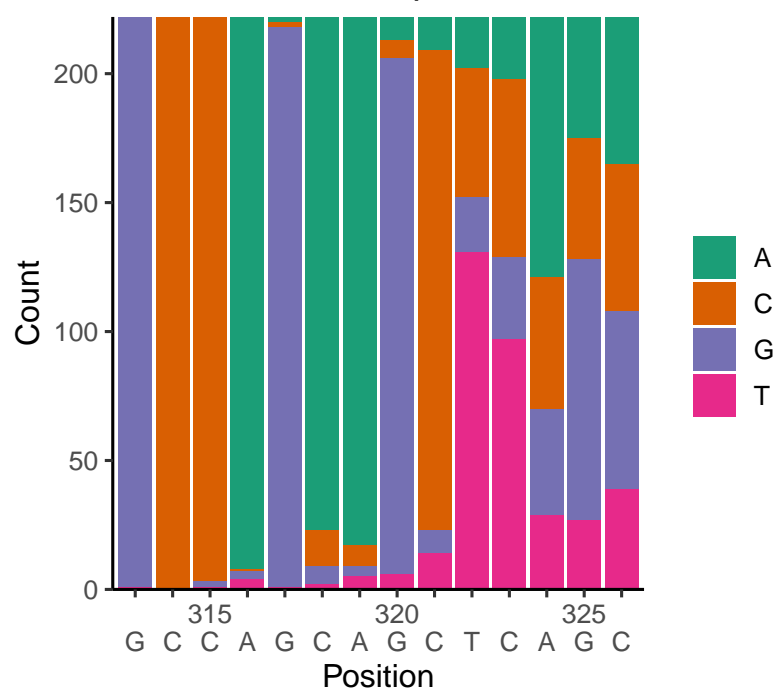
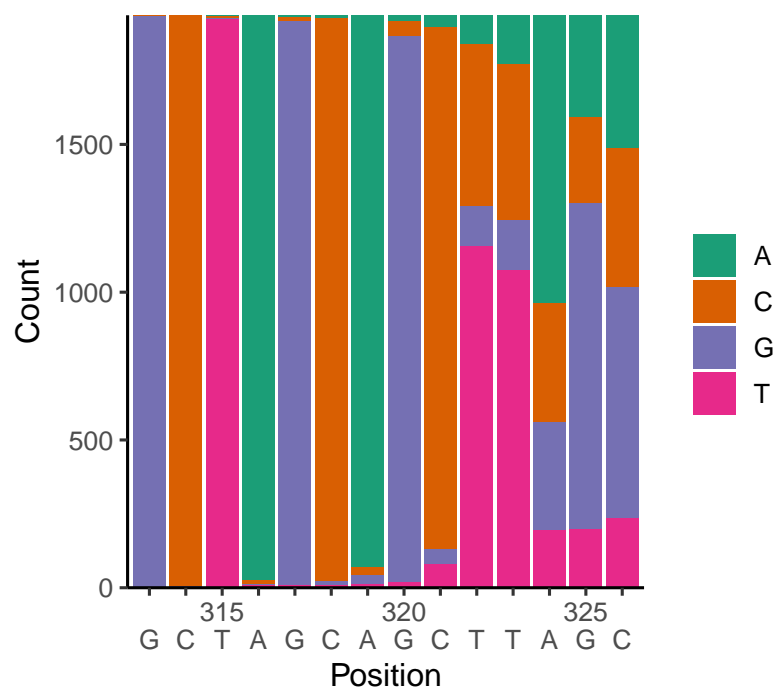


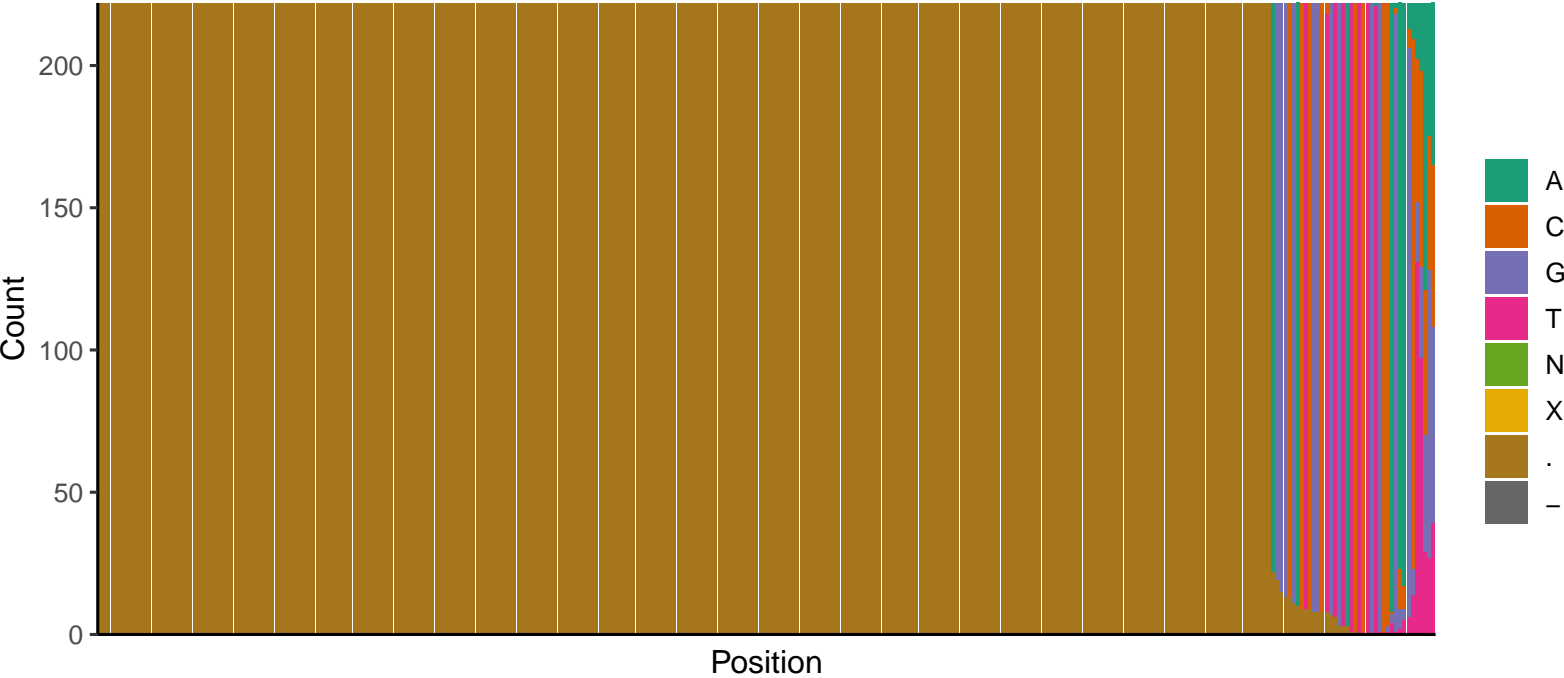
Gene TRBV7-1\*ap01\_G291C\_T296C



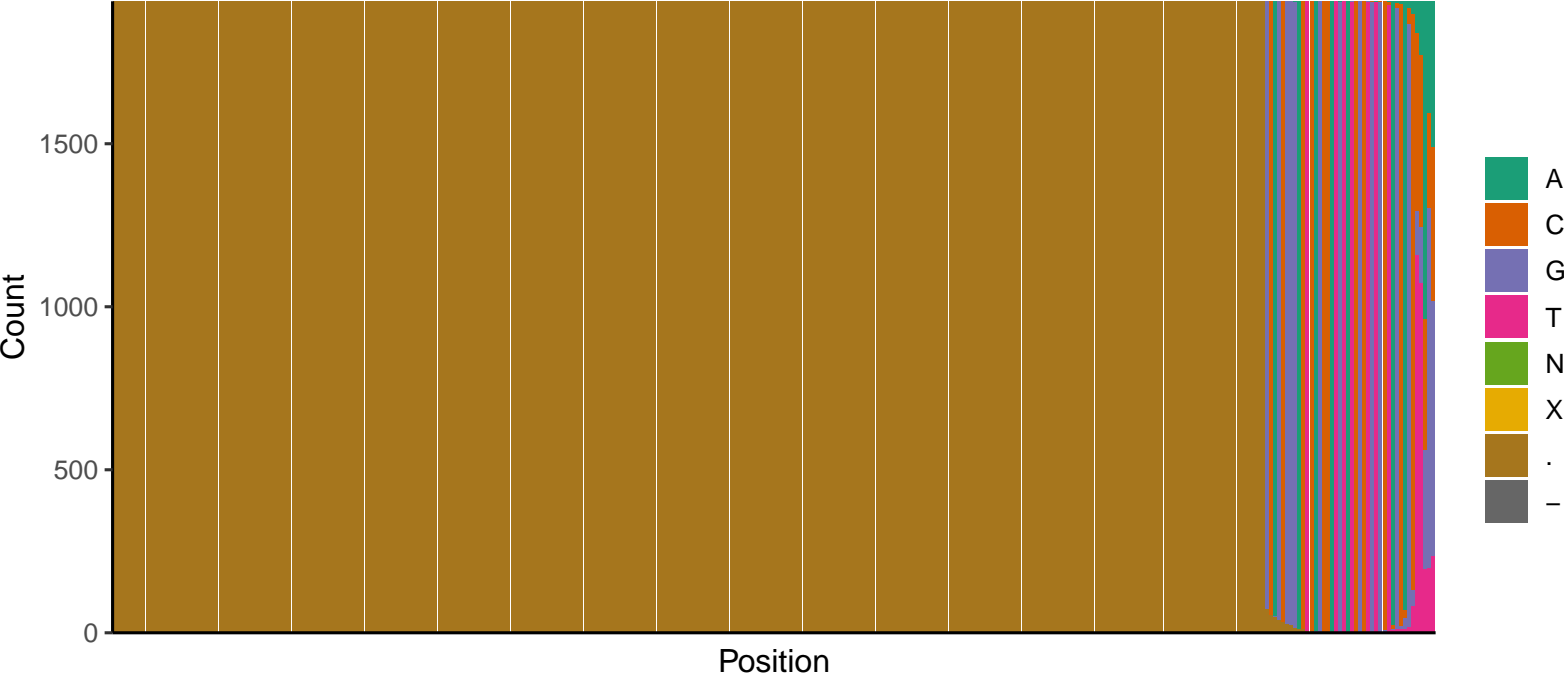
Gene TRBV7-7\*ap01\_C315T



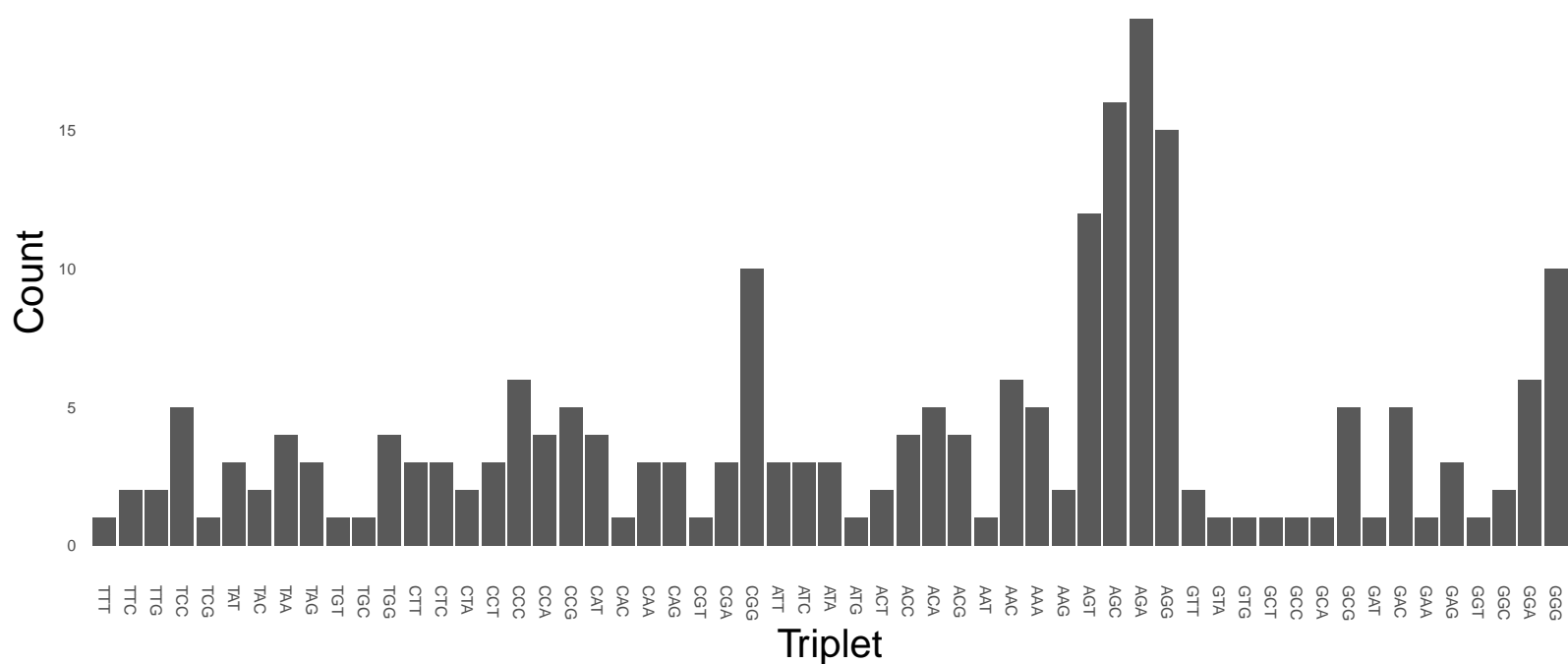
Gene TRBV7-1\*ap01\_G291C\_T296C



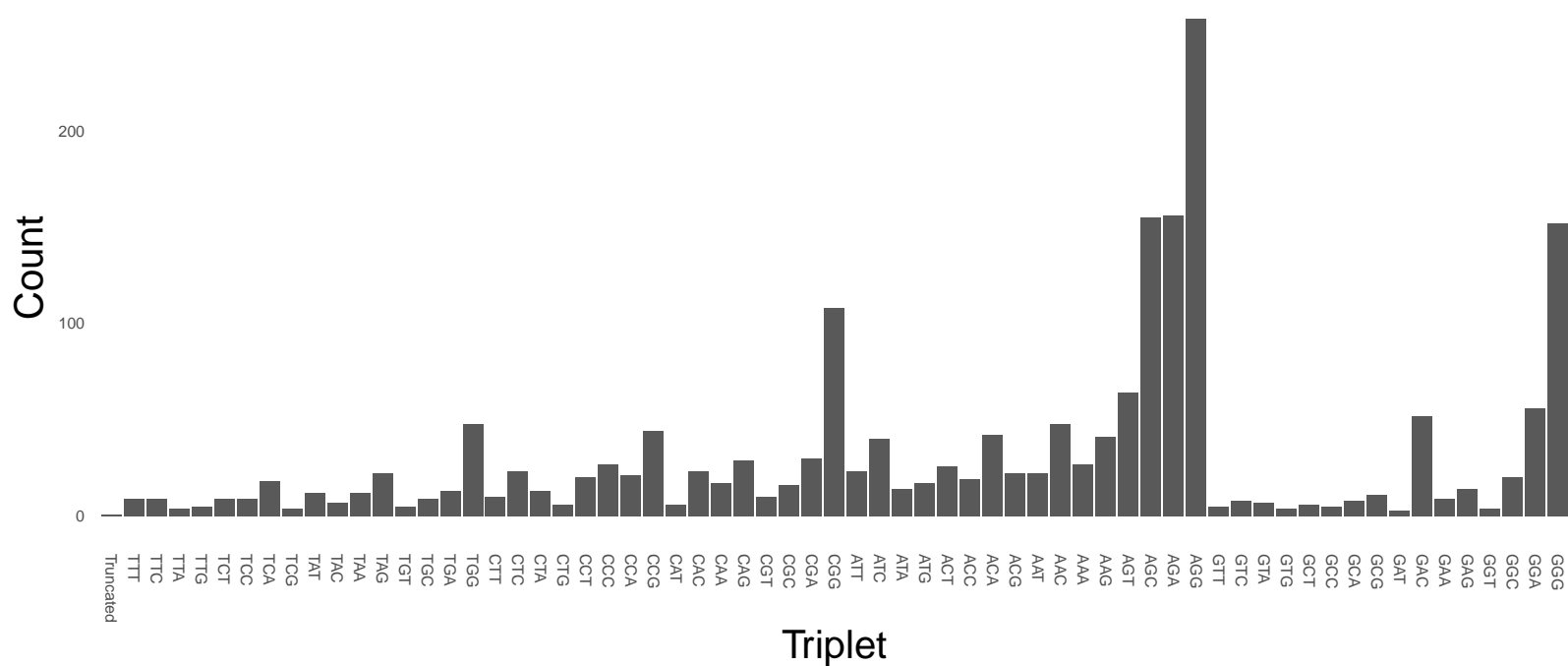
Gene TRBV7-7\*ap01\_C315T



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

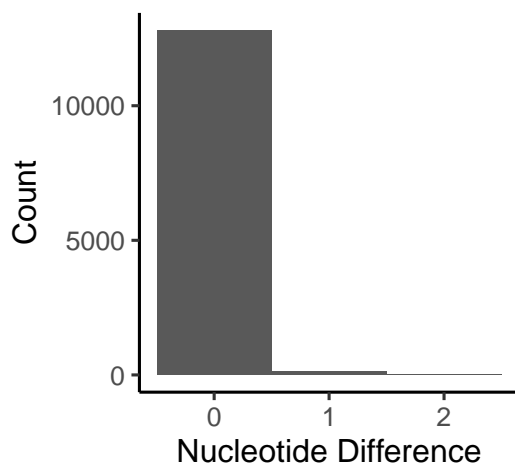


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



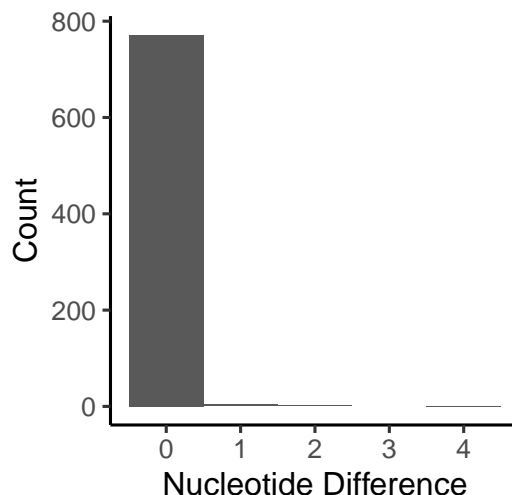
### TRBV20-1\*ap01

12942 sequences assigned  
12807 (99%) exact matches, in which:  
12667 unique CDR3  
13 unique J



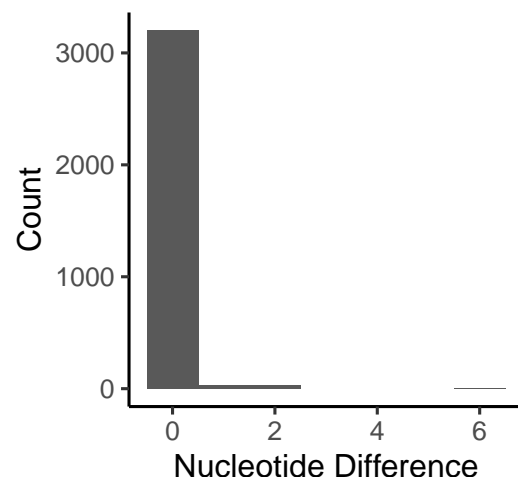
### TRBV10-2\*ap01

779 sequences assigned  
772 (99.1%) exact matches, in which:  
756 unique CDR3  
13 unique J



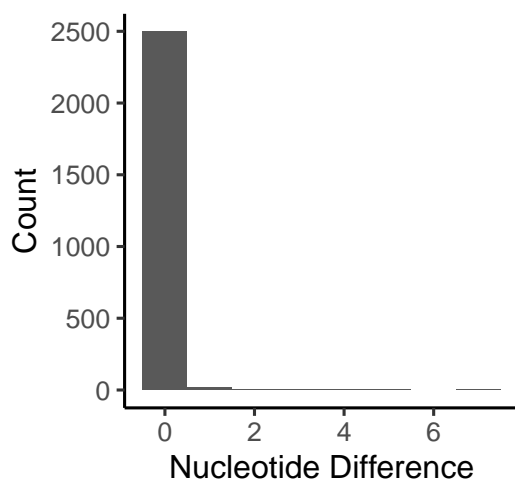
### TRBV13\*ap01

3263 sequences assigned  
3201 (98.1%) exact matches, in which:  
3110 unique CDR3  
13 unique J



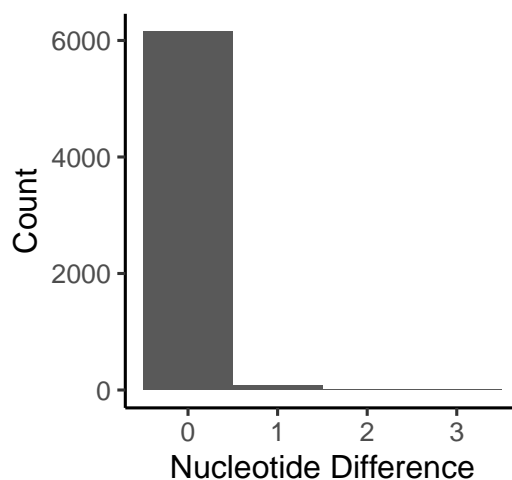
### TRBV10-1\*ap01

2520 sequences assigned  
2497 (99.1%) exact matches, in which:  
2445 unique CDR3  
13 unique J



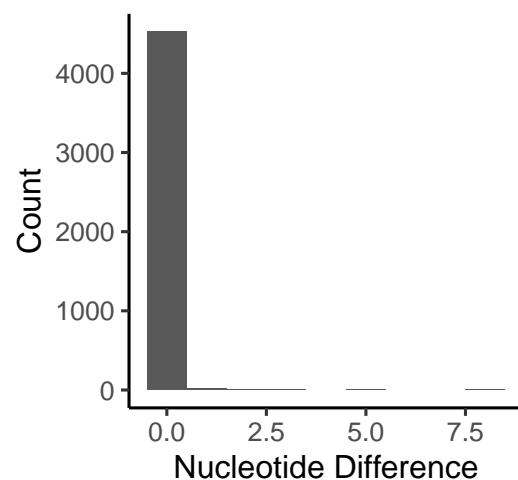
### TRBV10-3\*ap01

6233 sequences assigned  
6150 (98.7%) exact matches, in which:  
6054 unique CDR3  
13 unique J



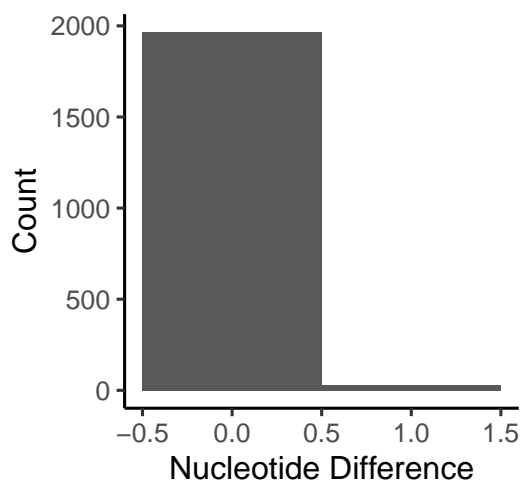
### TRBV14\*ap01

4554 sequences assigned  
4526 (99.4%) exact matches, in which:  
4487 unique CDR3  
13 unique J



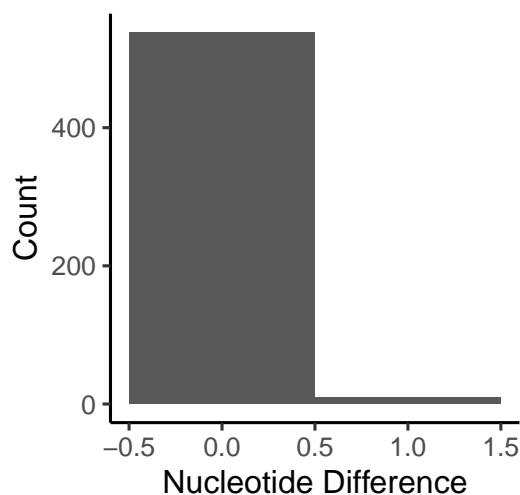
### TRBV20-1\*ap02

1995 sequences assigned  
1966 (98.5%) exact matches, in which:  
1938 unique CDR3  
13 unique J



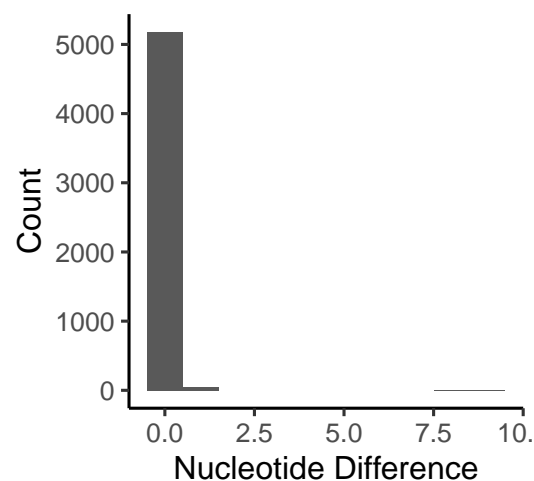
### TRBV1\*ap01

547 sequences assigned  
538 (98.4%) exact matches, in which:  
525 unique CDR3  
13 unique J



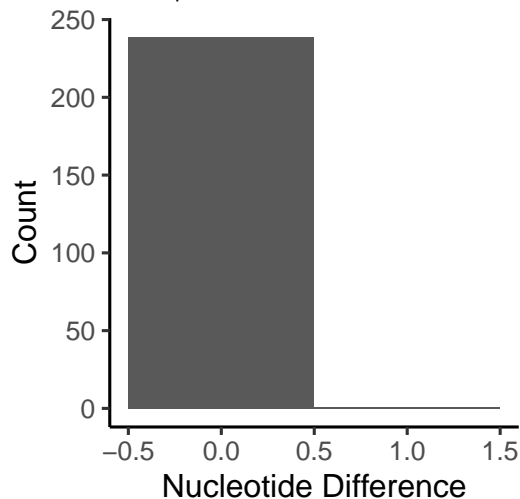
### TRBV15\*ap02

5227 sequences assigned  
5179 (99.1%) exact matches, in which:  
5094 unique CDR3  
13 unique J



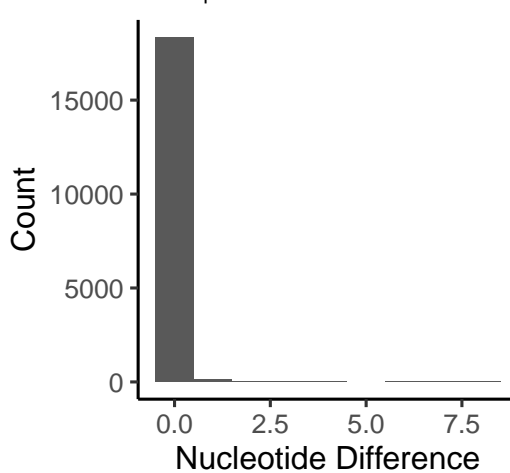
### TRBV16\*ap01

240 sequences assigned  
239 (99.6%) exact matches, in which:  
238 unique CDR3  
13 unique J



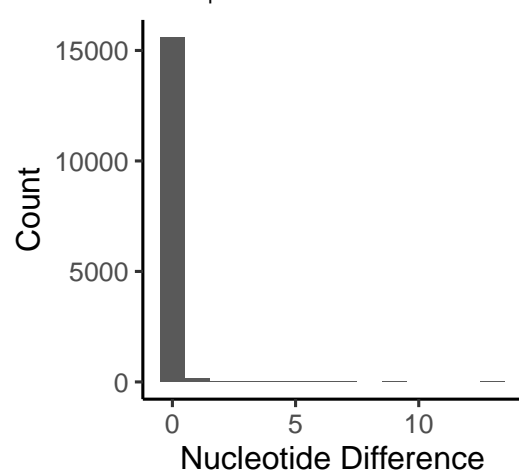
### TRBV19\*ap01

18506 sequences assigned  
18352 (99.2%) exact matches, in which:  
18228 unique CDR3  
13 unique J



### TRBV27\*ap01

15806 sequences assigned  
15602 (98.7%) exact matches, in which:  
15274 unique CDR3  
13 unique J



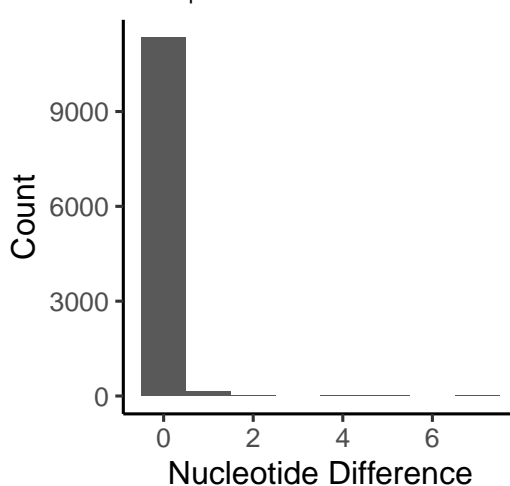
### TRBV17\*ap01

2 sequences assigned  
No exact matches.



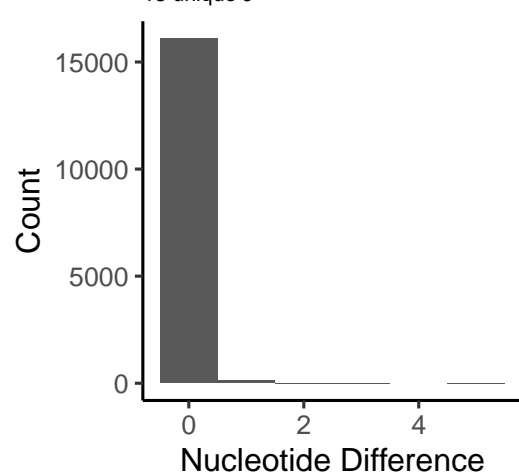
### TRBV2\*ap01

11483 sequences assigned  
11334 (98.7%) exact matches, in which:  
11124 unique CDR3  
13 unique J



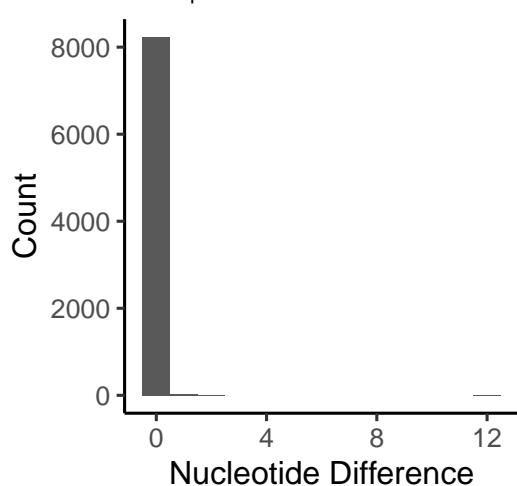
### TRBV28\*ap01

16225 sequences assigned  
16098 (99.2%) exact matches, in which:  
15909 unique CDR3  
13 unique J



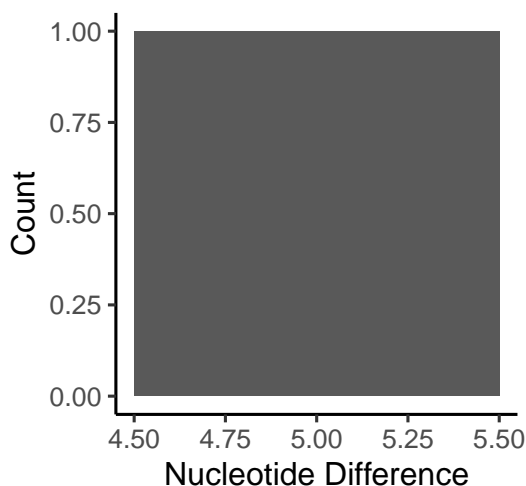
### TRBV18\*ap01

8271 sequences assigned  
8232 (99.5%) exact matches, in which:  
8182 unique CDR3  
13 unique J



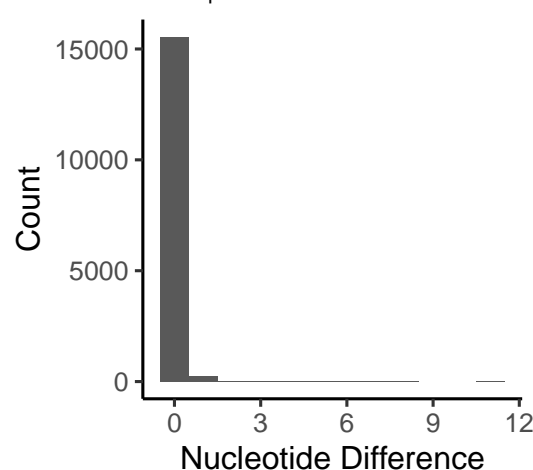
### TRBV26\*ap01

1 sequences assigned  
No exact matches.



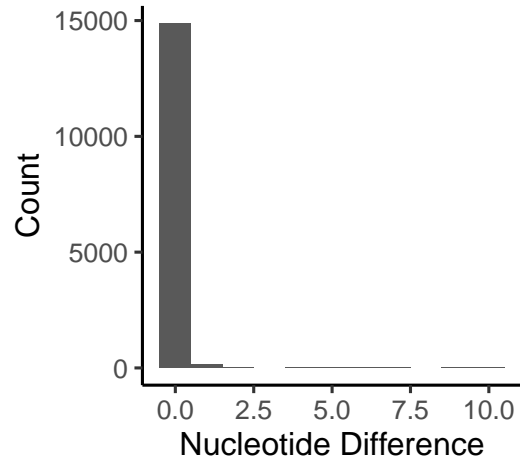
### TRBV30\*ap01

15825 sequences assigned  
15550 (98.3%) exact matches, in which:  
15212 unique CDR3  
13 unique J



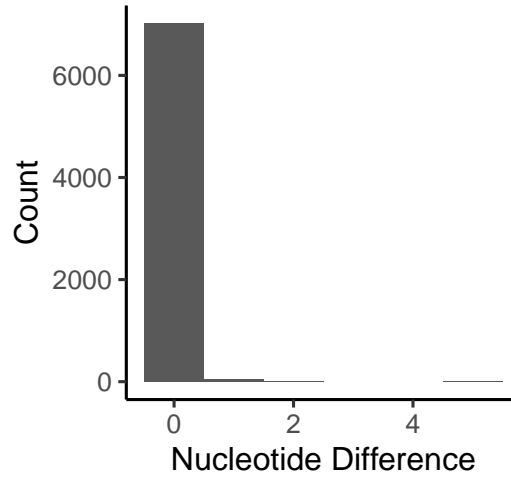
### TRBV9\*ap01

15045 sequences assigned  
14888 (99%) exact matches, in which:  
14659 unique CDR3  
13 unique J



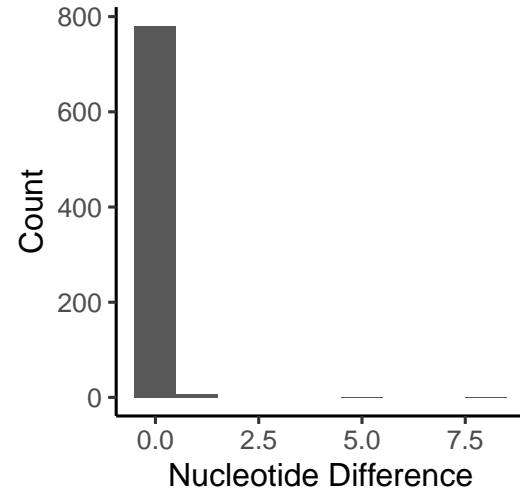
### TRBV11-2\*ap01

7074 sequences assigned  
7019 (99.2%) exact matches, in which:  
6922 unique CDR3  
13 unique J



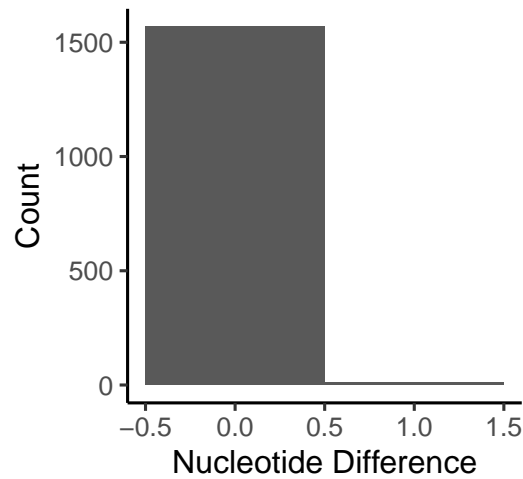
### TRBV12-2\*ap01

790 sequences assigned  
781 (98.9%) exact matches, in which:  
766 unique CDR3  
13 unique J



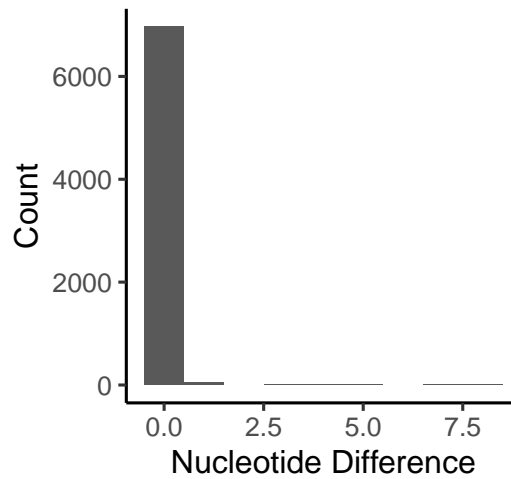
### TRBV11-1\*ap01

1577 sequences assigned  
1568 (99.4%) exact matches, in which:  
1555 unique CDR3  
13 unique J



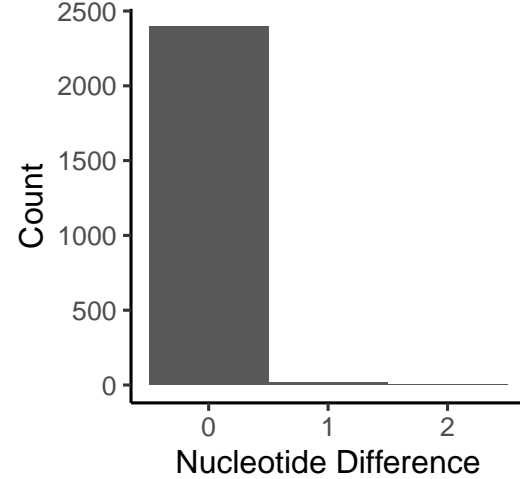
### TRBV11-3\*ap01

7015 sequences assigned  
6966 (99.3%) exact matches, in which:  
6884 unique CDR3  
13 unique J



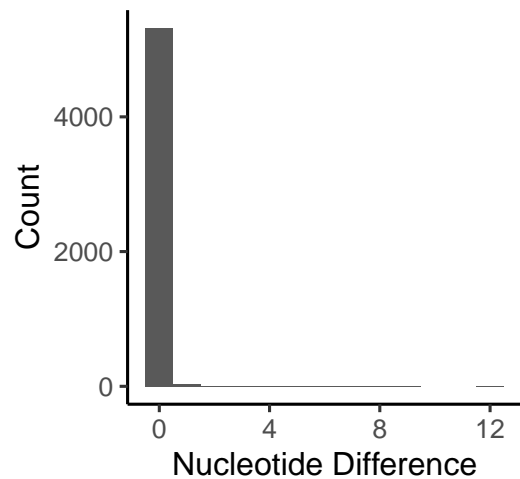
### TRBV12-5\*ap01

2416 sequences assigned  
2395 (99.1%) exact matches, in which:  
2361 unique CDR3  
13 unique J



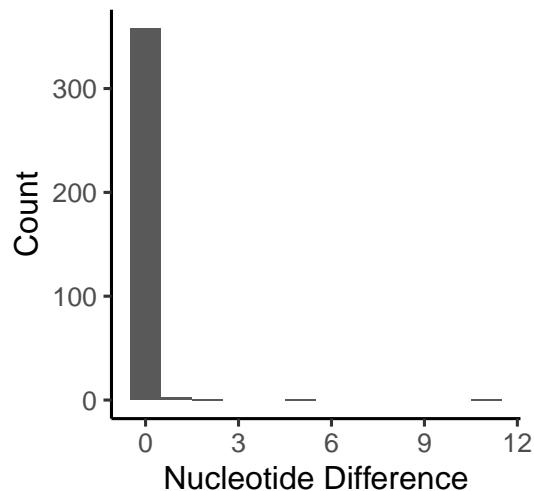
### TRBV21-1\*ap01

5379 sequences assigned  
5318 (98.9%) exact matches, in which:  
5280 unique CDR3  
13 unique J



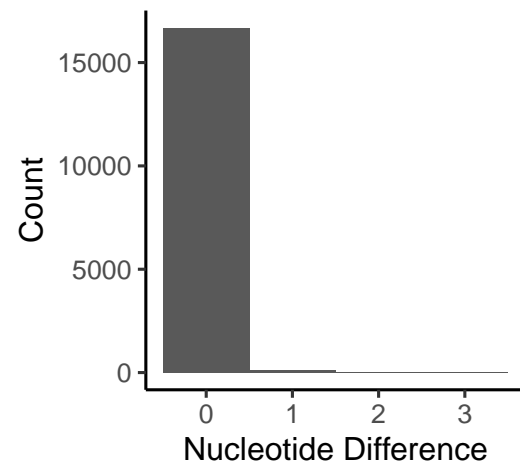
### TRBV12-1\*ap01

363 sequences assigned  
358 (98.6%) exact matches, in which:  
356 unique CDR3  
13 unique J



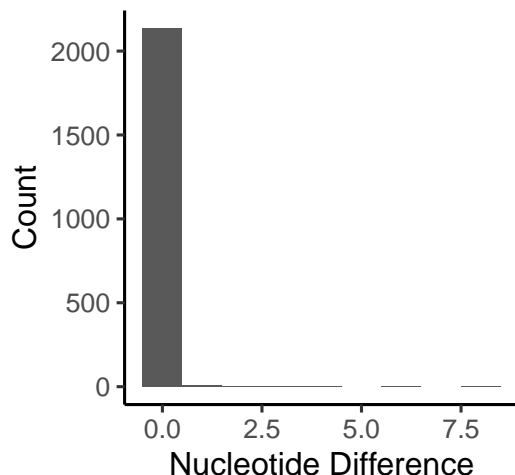
### TRBV12-34\*ap01

16829 sequences assigned  
16683 (99.1%) exact matches, in which:  
16450 unique CDR3  
13 unique J



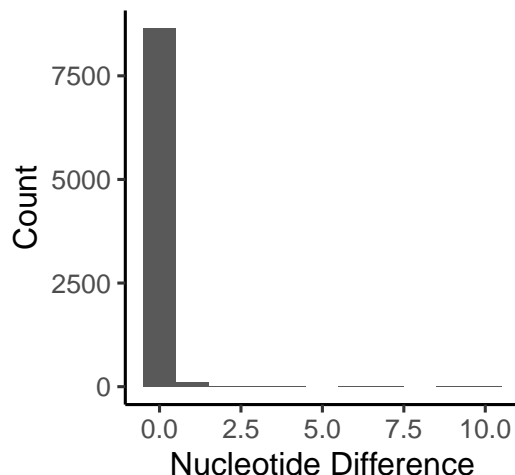
### TRBV23-1\*ap01

2154 sequences assigned  
2135 (99.1%) exact matches, in which:  
2107 unique CDR3  
13 unique J



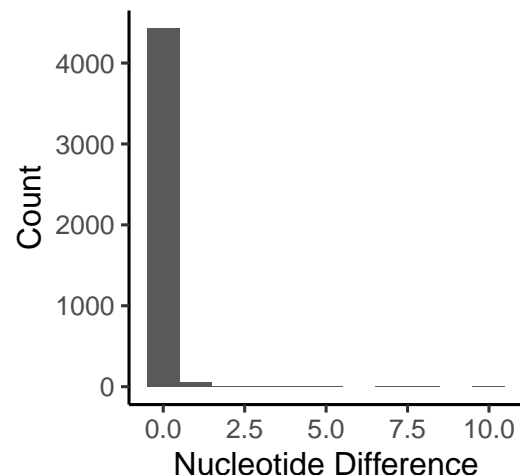
### TRBV24-1\*ap01

8768 sequences assigned  
8644 (98.6%) exact matches, in which:  
8449 unique CDR3  
13 unique J



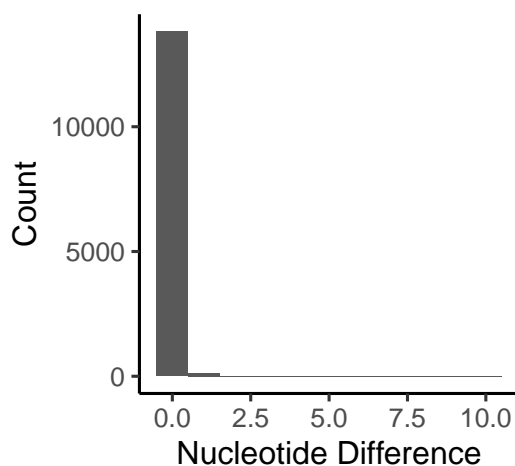
### TRBV25-1\*ap01

4498 sequences assigned  
4428 (98.4%) exact matches, in which:  
4319 unique CDR3  
13 unique J



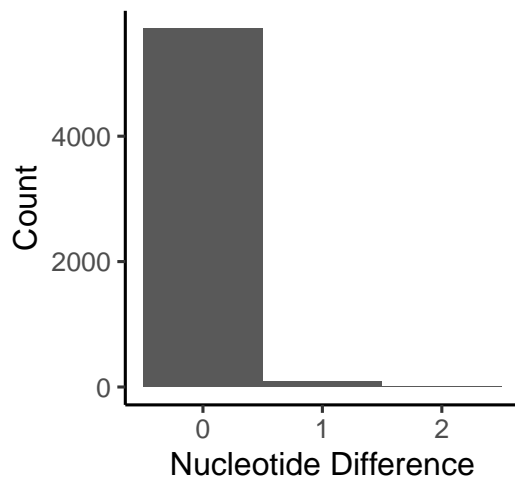
### TRBV3-12\*ap01

13967 sequences assigned  
13818 (98.9%) exact matches, in which:  
13578 unique CDR3  
13 unique J



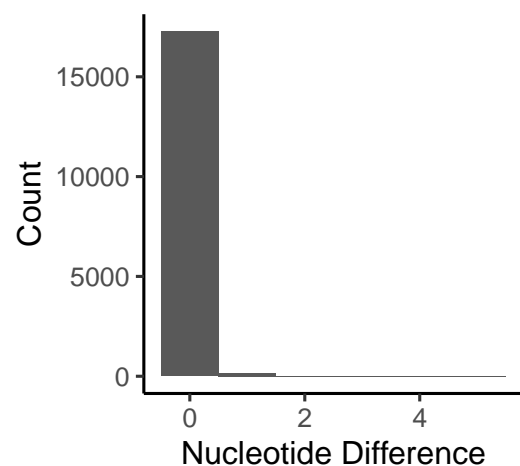
### TRBV4-2\*ap01

5797 sequences assigned  
5714 (98.6%) exact matches, in which:  
5588 unique CDR3  
13 unique J



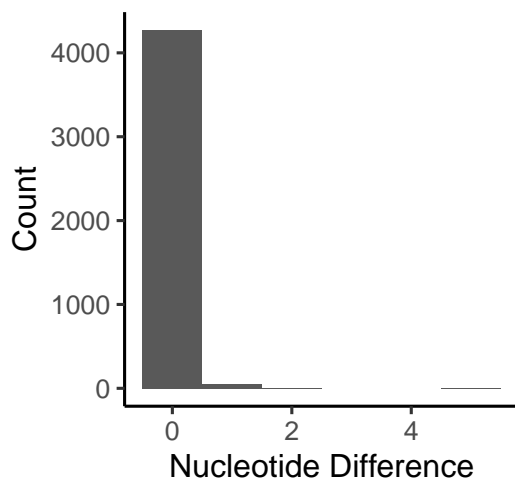
### TRBV5-1\*ap01

17448 sequences assigned  
17269 (99%) exact matches, in which:  
16880 unique CDR3  
13 unique J



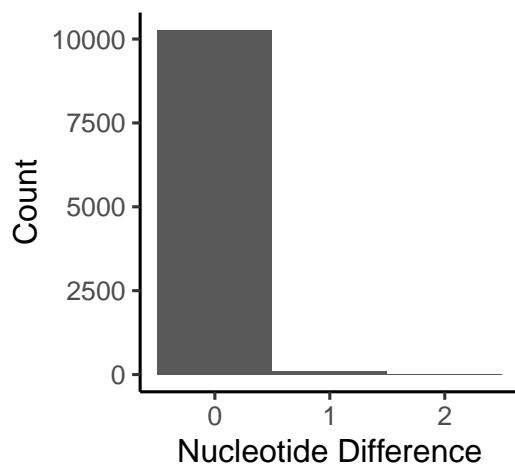
### TRBV4-1\*ap01

4329 sequences assigned  
4272 (98.7%) exact matches, in which:  
4180 unique CDR3  
13 unique J



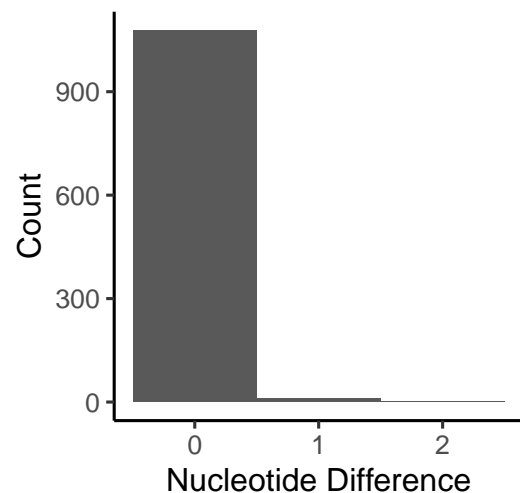
### TRBV4-3\*ap01

10383 sequences assigned  
10276 (99%) exact matches, in which:  
10075 unique CDR3  
13 unique J



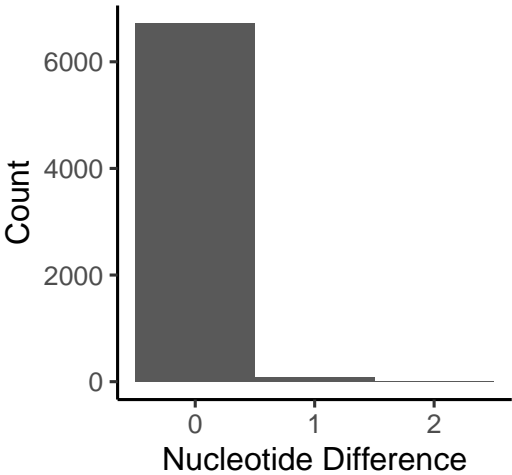
### TRBV5-3\*ap01

1090 sequences assigned  
1078 (98.9%) exact matches, in which:  
1063 unique CDR3  
13 unique J



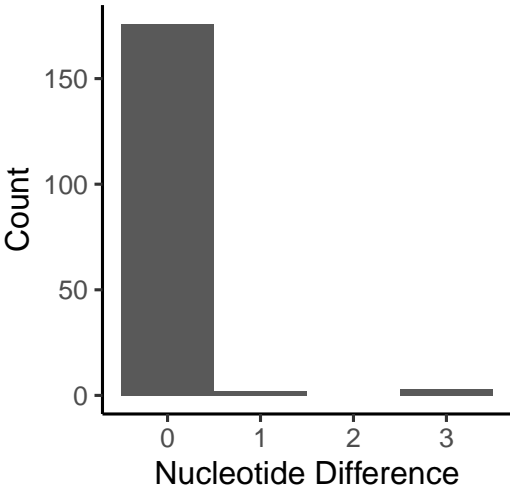
TRBV5-4\*ap01

6798 sequences assigned  
6720 (98.9%) exact matches, in which:  
6583 unique CDR3  
13 unique J



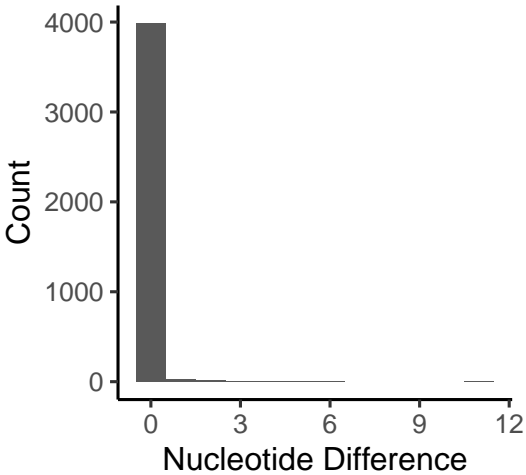
TRBV5-7\*ap01

181 sequences assigned  
176 (97.2%) exact matches, in which:  
171 unique CDR3  
13 unique J



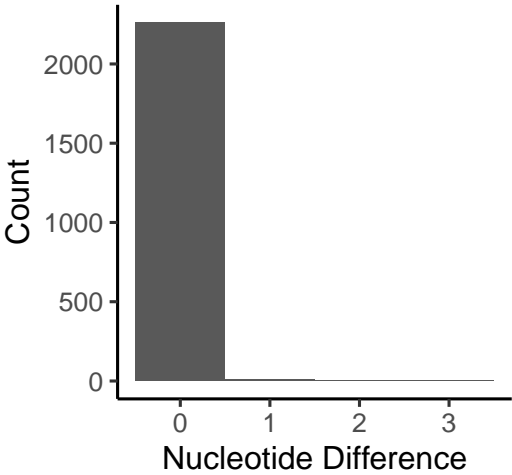
TRBV6-4\*ap01

4033 sequences assigned  
3985 (98.8%) exact matches, in which:  
3941 unique CDR3  
13 unique J



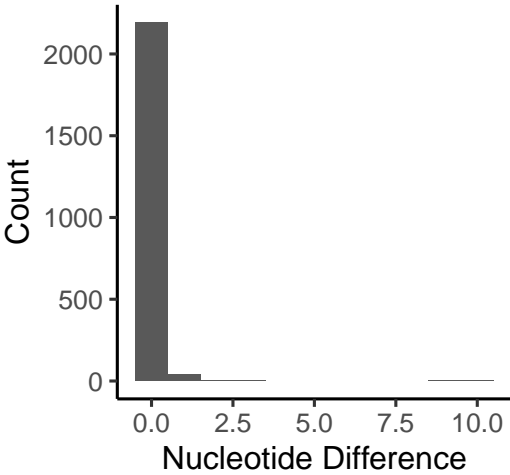
TRBV5-5\*ap01

2273 sequences assigned  
2260 (99.4%) exact matches, in which:  
2246 unique CDR3  
13 unique J



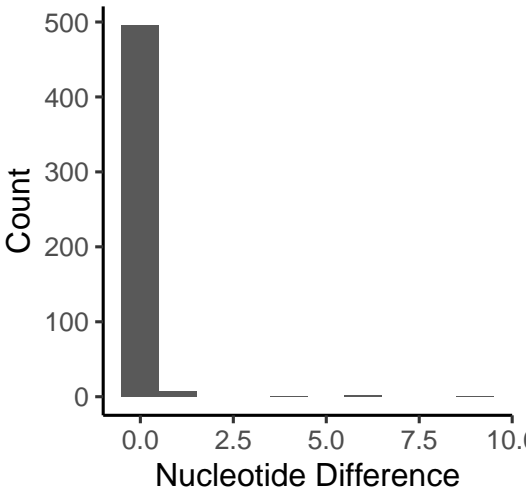
TRBV5-8\*ap01

2239 sequences assigned  
2191 (97.9%) exact matches, in which:  
2170 unique CDR3  
13 unique J



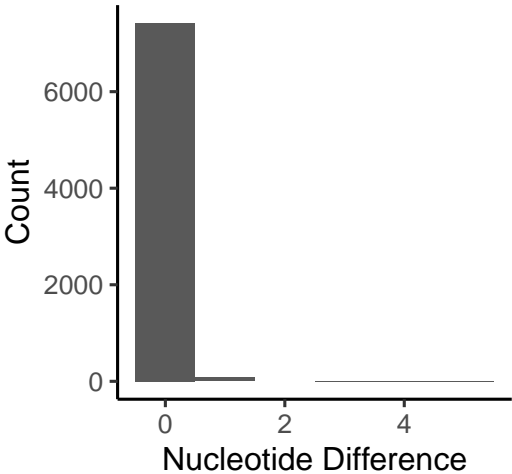
TRBV6-7\*ap01

508 sequences assigned  
496 (97.6%) exact matches, in which:  
486 unique CDR3  
13 unique J



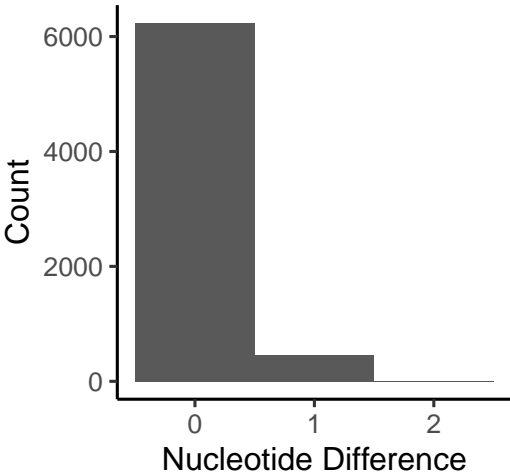
TRBV5-6\*ap01

7505 sequences assigned  
7421 (98.9%) exact matches, in which:  
7211 unique CDR3  
13 unique J



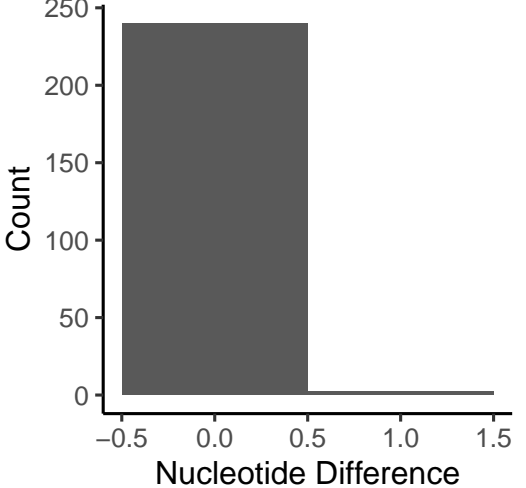
TRBV6-1\*ap01

6693 sequences assigned  
6235 (93.2%) exact matches, in which:  
6103 unique CDR3  
13 unique J



TRBV6-8\*ap01

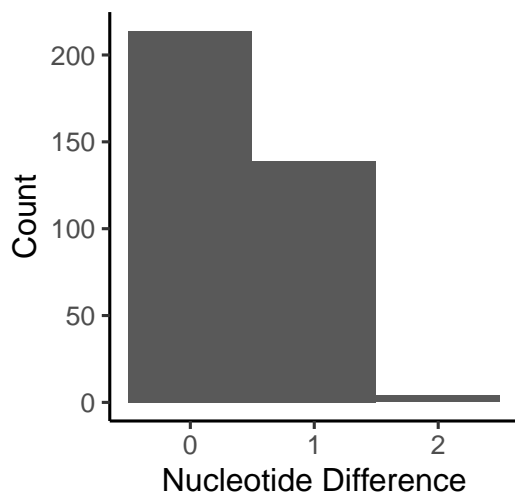
242 sequences assigned  
240 (99.2%) exact matches, in which:  
234 unique CDR3  
13 unique J





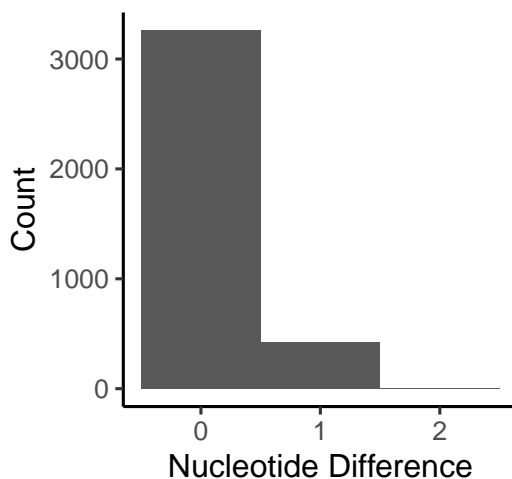
### TRBV6–9\*ap01

357 sequences assigned  
214 (59.9%) exact matches, in which:  
212 unique CDR3  
13 unique J



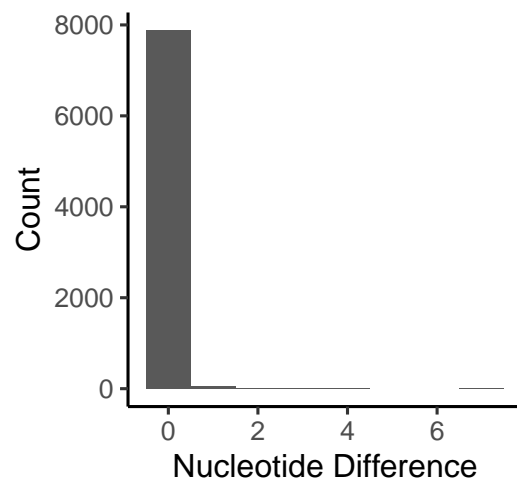
### TRBV6–56\*ap02

3687 sequences assigned  
3260 (88.4%) exact matches, in which:  
3178 unique CDR3  
13 unique J



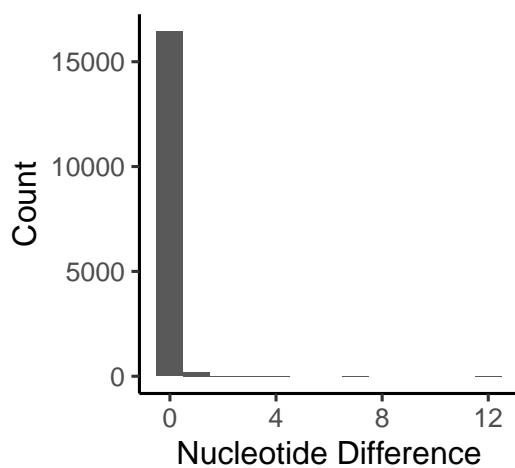
### TRBV7–3\*ap01

7937 sequences assigned  
7879 (99.3%) exact matches, in which:  
7805 unique CDR3  
13 unique J



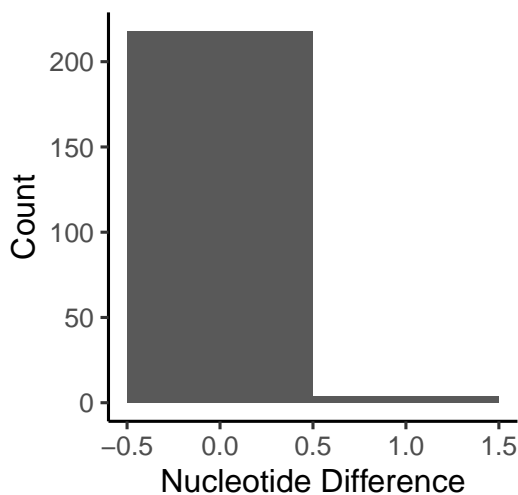
### TRBV6–23\*ap01

16648 sequences assigned  
16442 (98.8%) exact matches, in which:  
15979 unique CDR3  
13 unique J



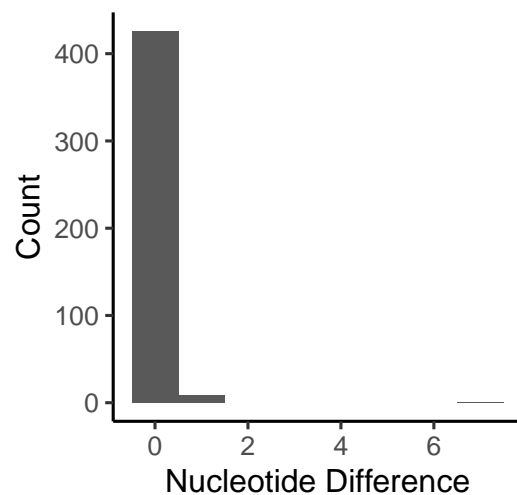
### TRBV7–1\*ap01\_G291C\_

222 sequences assigned  
218 (98.2%) exact matches, in which:  
217 unique CDR3  
13 unique J



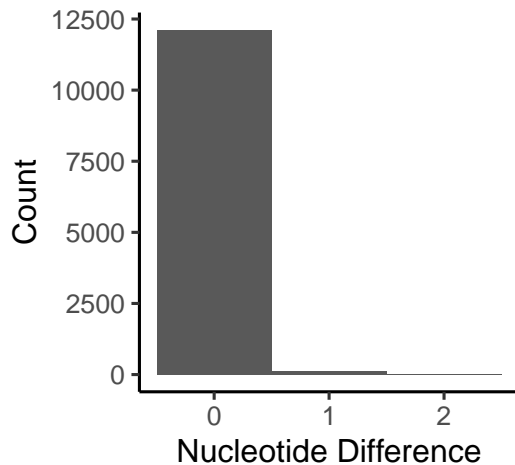
### TRBV7–4\*ap01

436 sequences assigned  
426 (97.7%) exact matches, in which:  
422 unique CDR3  
13 unique J



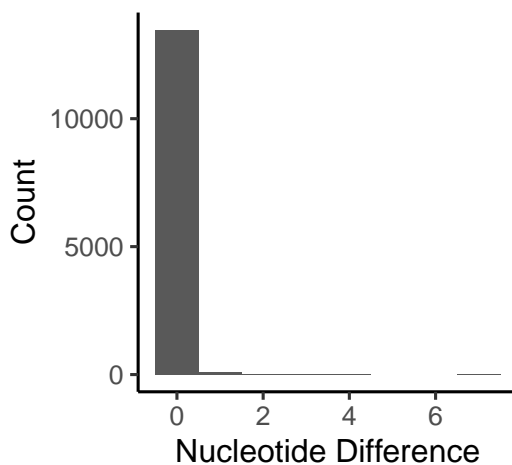
### TRBV6–56\*ap01

12250 sequences assigned  
12121 (98.9%) exact matches, in which:  
11827 unique CDR3  
13 unique J



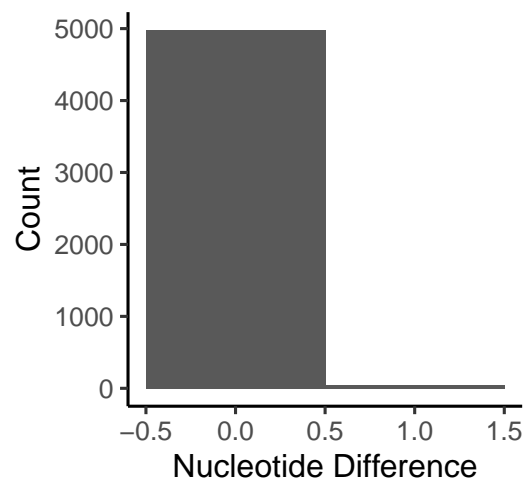
### TRBV7–2\*ap01

13566 sequences assigned  
13473 (99.3%) exact matches, in which:  
13318 unique CDR3  
13 unique J



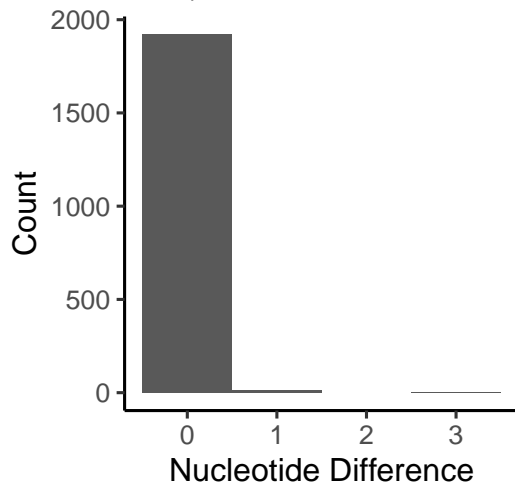
### TRBV7–6\*ap01

5022 sequences assigned  
4980 (99.2%) exact matches, in which:  
4909 unique CDR3  
13 unique J



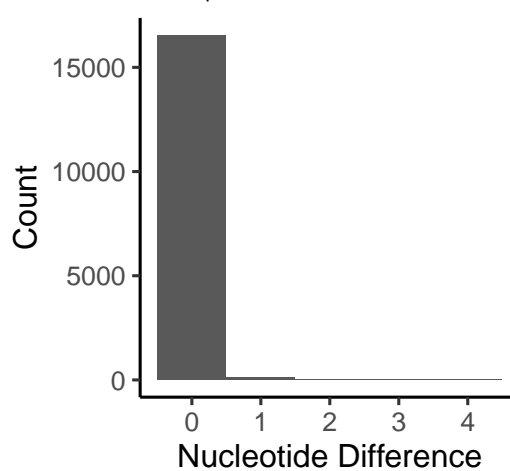
### TRBV7-7\*ap01\_C315T

1937 sequences assigned  
1921 (99.2%) exact matches, in which:  
1886 unique CDR3  
13 unique J



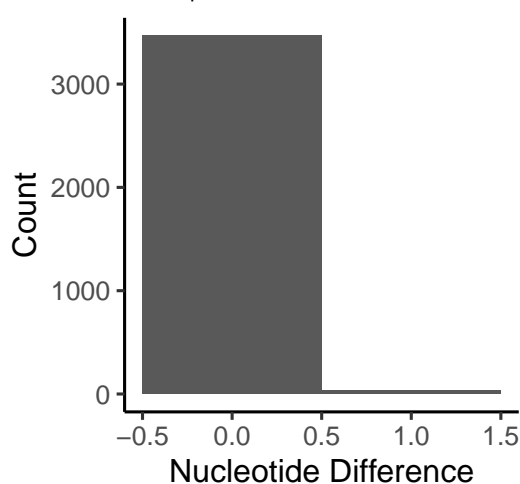
### TRBV7-9\*ap01

16670 sequences assigned  
16546 (99.3%) exact matches, in which:  
16363 unique CDR3  
13 unique J



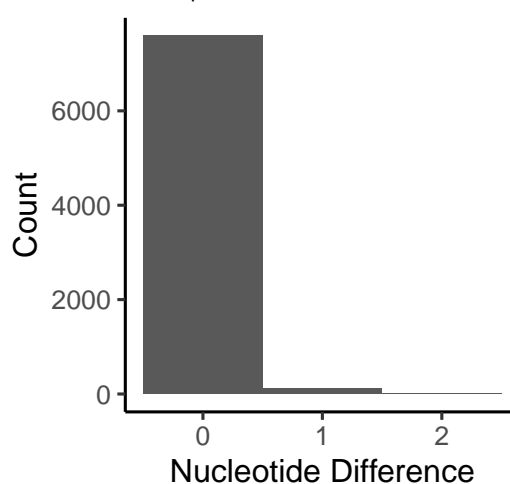
### TRBV7-8\*ap01

3506 sequences assigned  
3468 (98.9%) exact matches, in which:  
3420 unique CDR3  
13 unique J



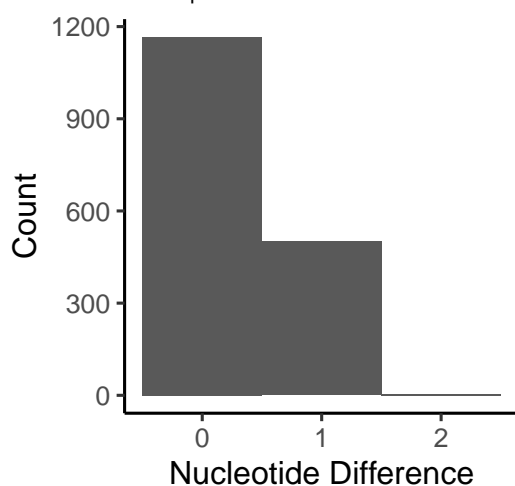
### TRBV29-1\*ap01

7703 sequences assigned  
7592 (98.6%) exact matches, in which:  
7394 unique CDR3  
14 unique J



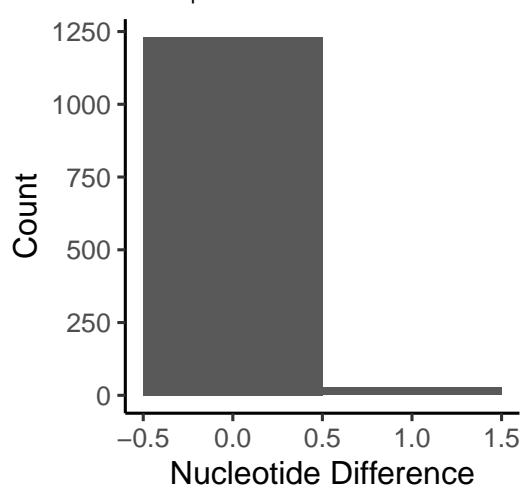
### TRBV7-8\*ap03

1671 sequences assigned  
1166 (69.8%) exact matches, in which:  
1143 unique CDR3  
13 unique J

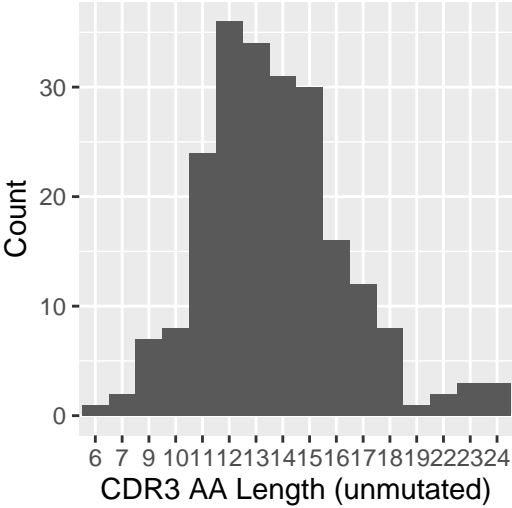


### TRBV29-1\*ap02

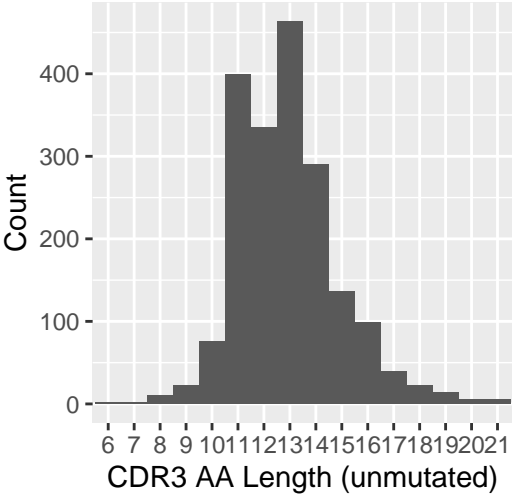
1258 sequences assigned  
1231 (97.9%) exact matches, in which:  
1213 unique CDR3  
13 unique J



TRBV7-1\*ap01\_G291C\_T296C



TRBV7-7\*ap01\_C315T





[illegible]