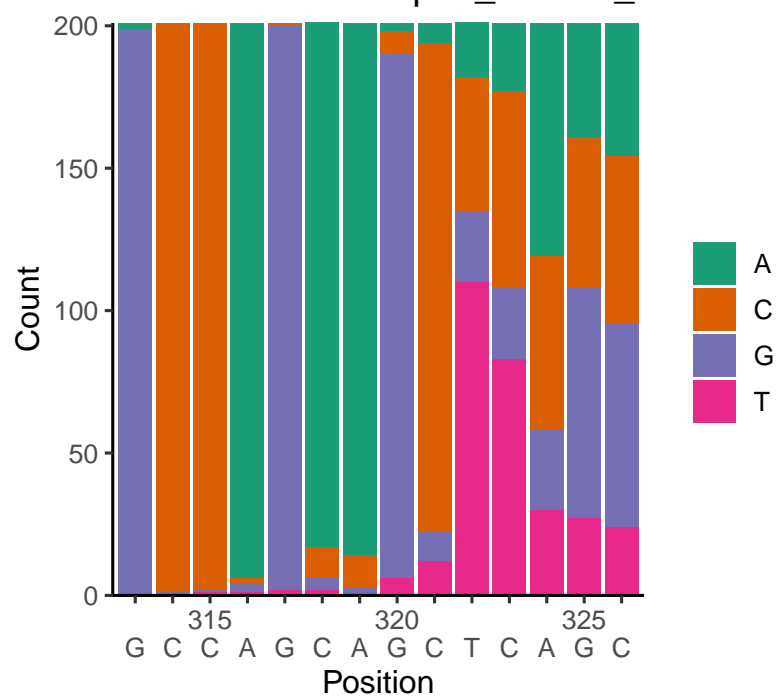
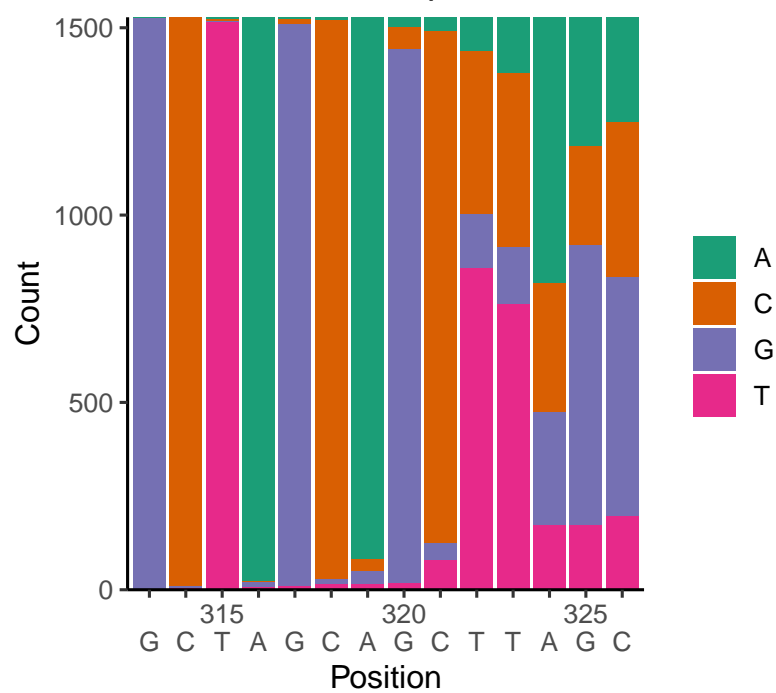


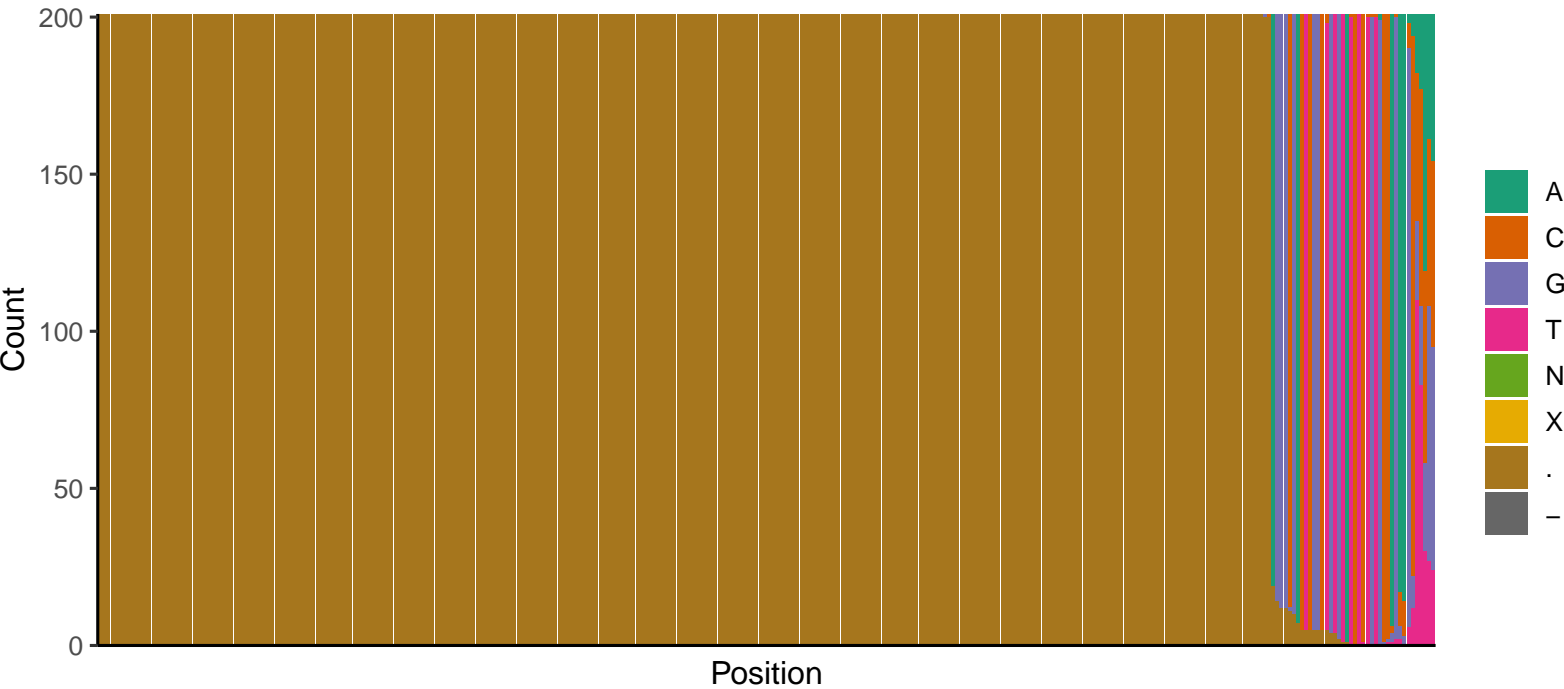
Gene TRBV7-1\*ap01\_G291C\_T296C



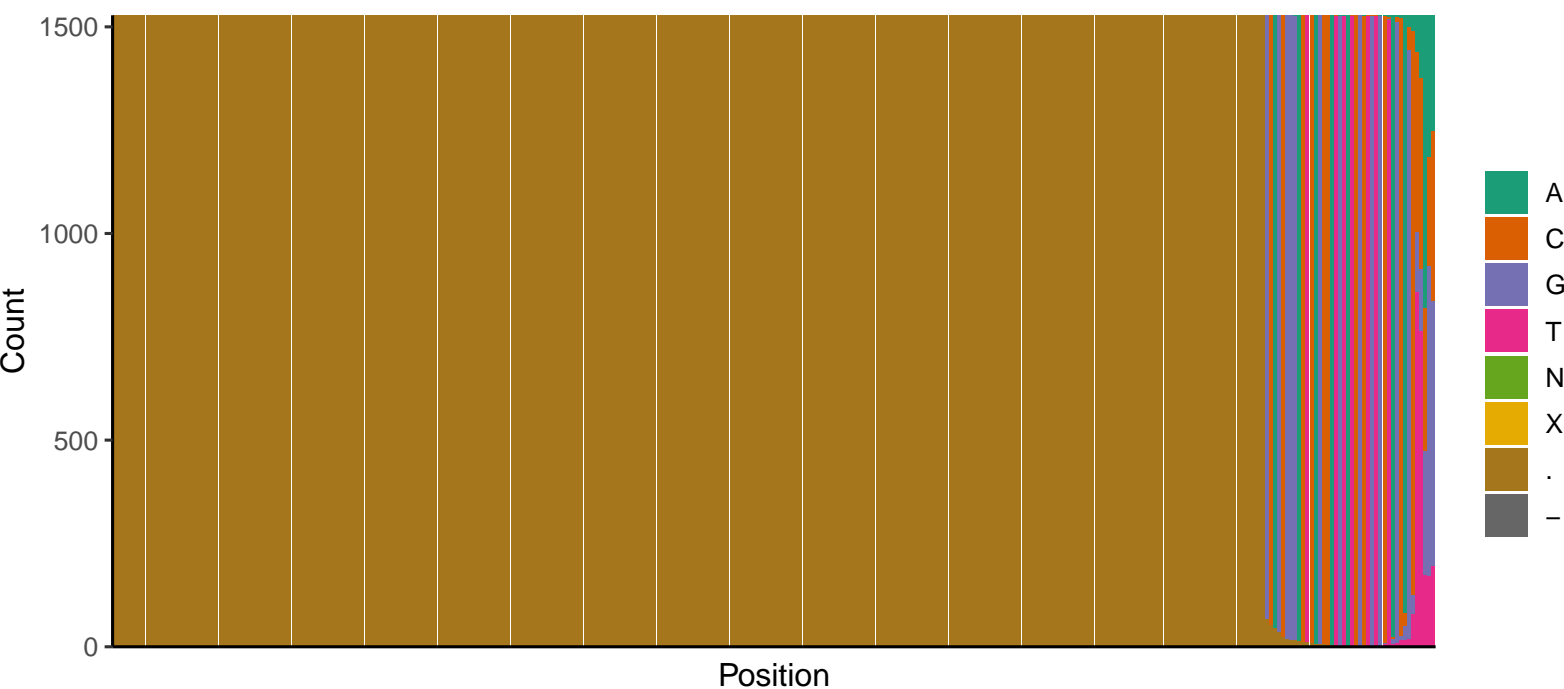
Gene TRBV7-7\*ap01\_C315T



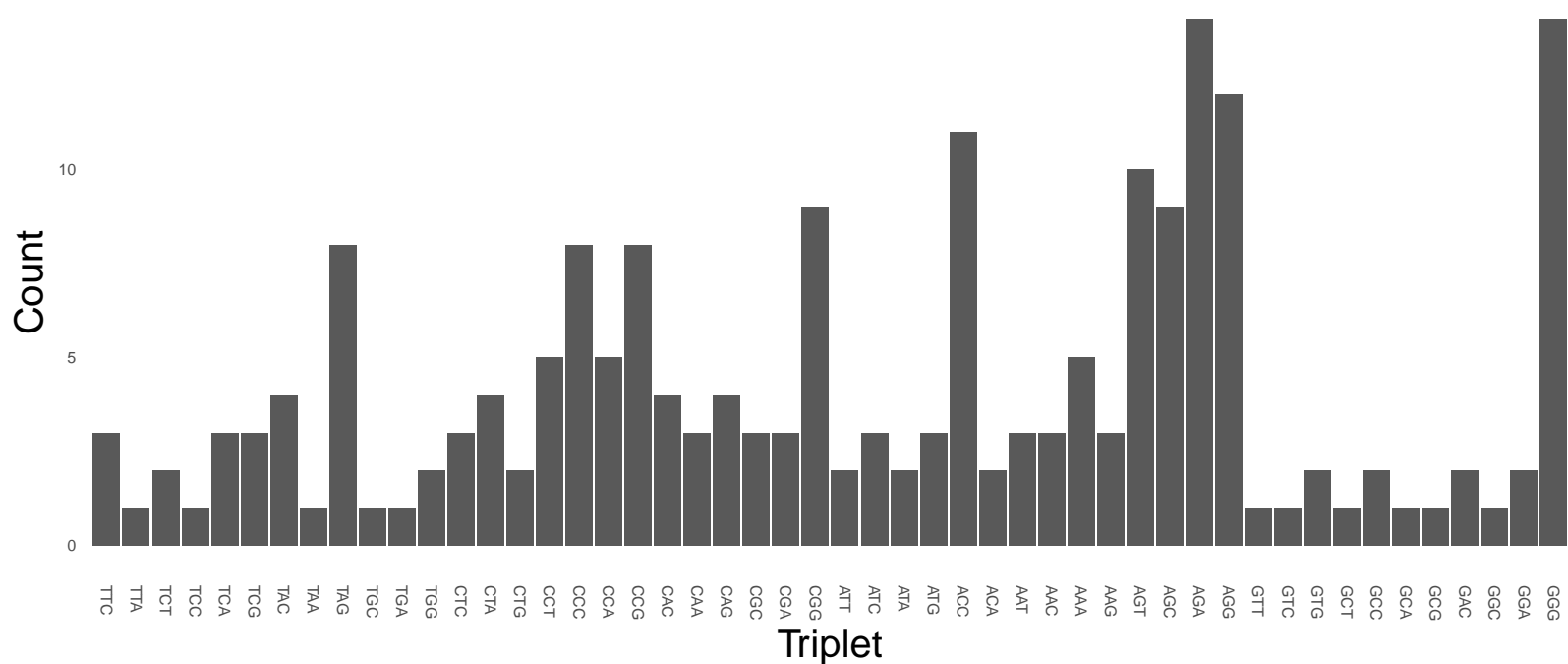
Gene TRBV7-1\*ap01\_G291C\_T296C



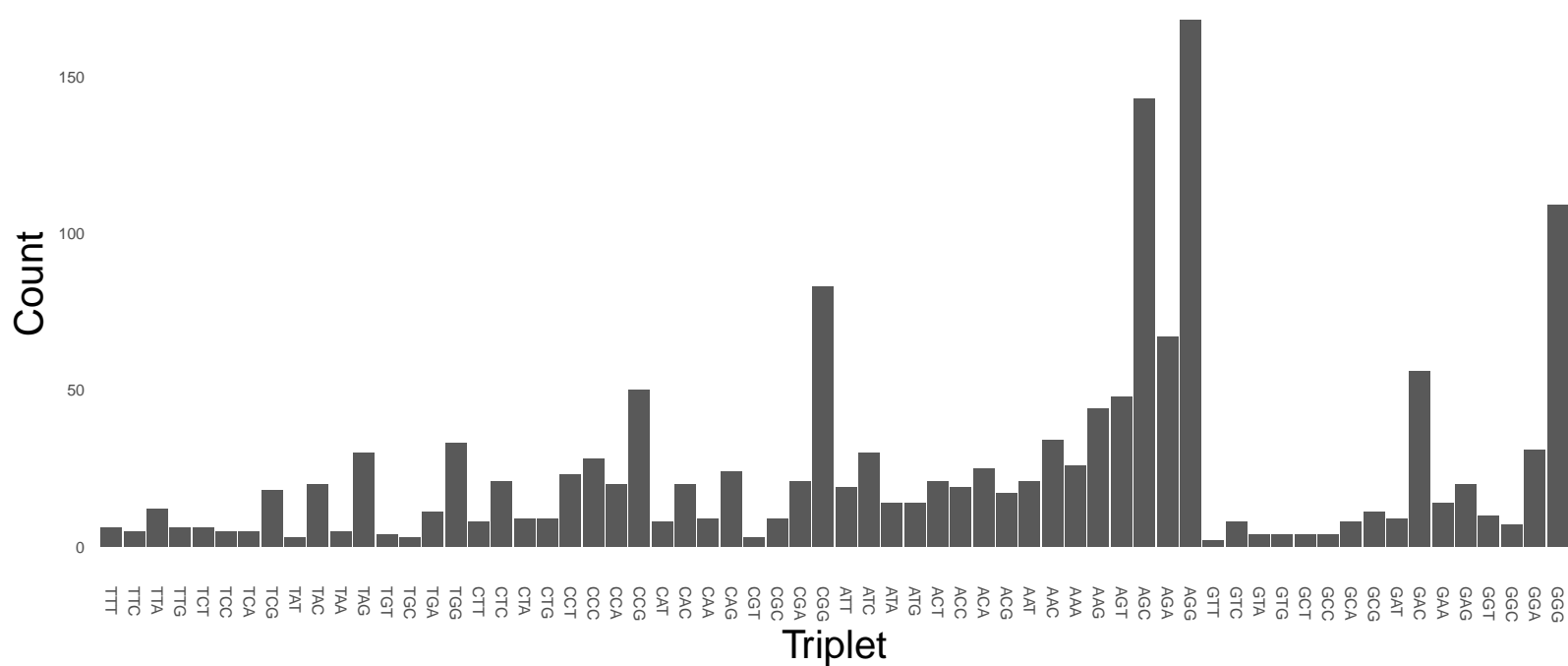
Gene TRBV7-7\*ap01\_C315T



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

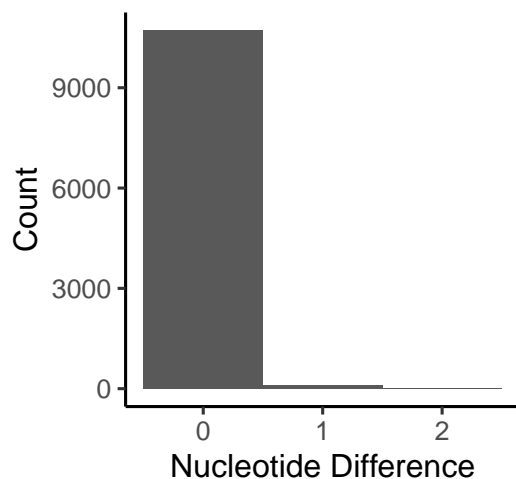


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



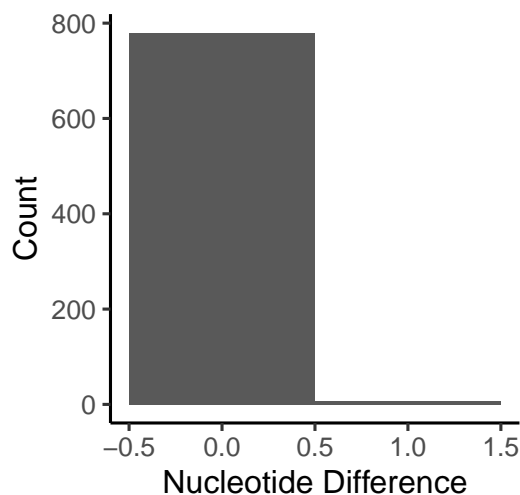
### TRBV20-1\*ap01

10815 sequences assigned  
10715 (99.1%) exact matches, in which:  
10587 unique CDR3  
13 unique J



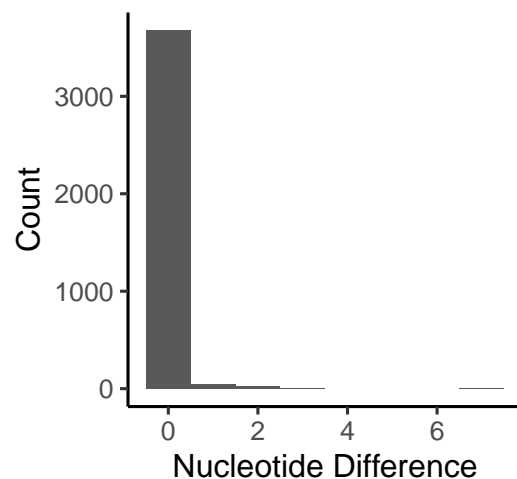
### TRBV10-2\*ap01

787 sequences assigned  
780 (99.1%) exact matches, in which:  
768 unique CDR3  
13 unique J



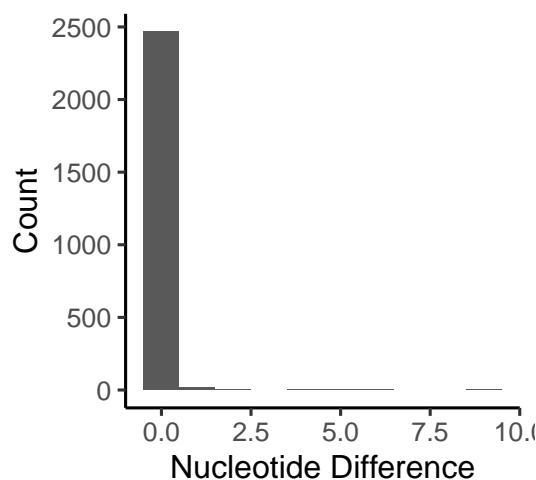
### TRBV13\*ap01

3754 sequences assigned  
3676 (97.9%) exact matches, in which:  
3585 unique CDR3  
13 unique J



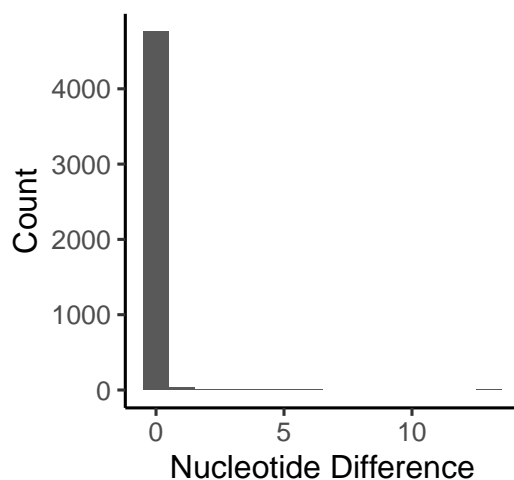
### TRBV10-1\*ap01

2495 sequences assigned  
2467 (98.9%) exact matches, in which:  
2414 unique CDR3  
13 unique J



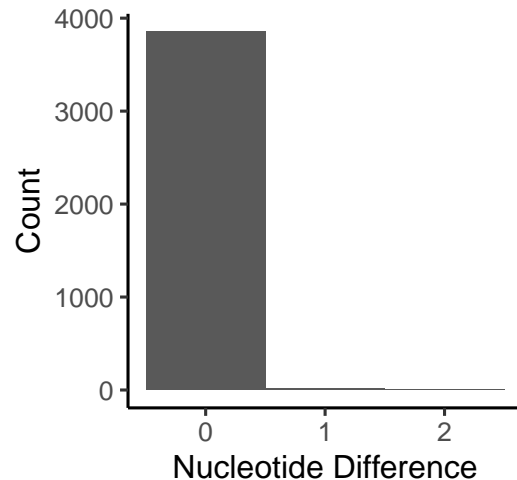
### TRBV10-3\*ap01

4800 sequences assigned  
4758 (99.1%) exact matches, in which:  
4668 unique CDR3  
13 unique J



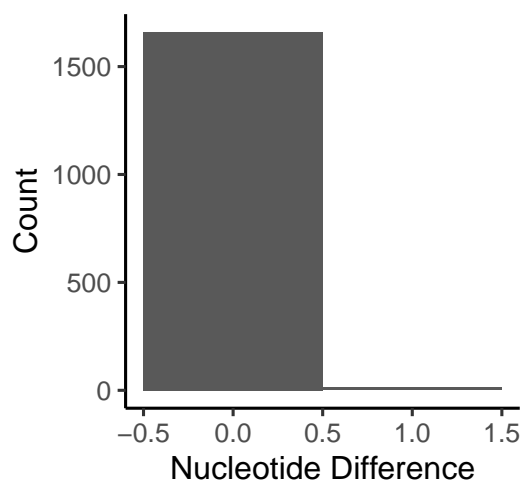
### TRBV14\*ap01

3876 sequences assigned  
3854 (99.4%) exact matches, in which:  
3824 unique CDR3  
13 unique J



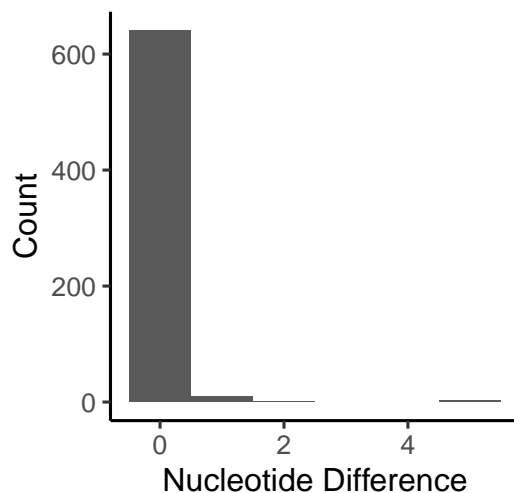
### TRBV20-1\*ap02

1673 sequences assigned  
1660 (99.2%) exact matches, in which:  
1634 unique CDR3  
13 unique J



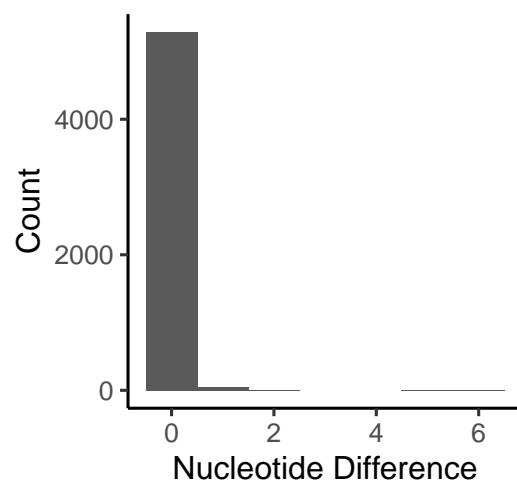
### TRBV1\*ap01

654 sequences assigned  
641 (98%) exact matches, in which:  
630 unique CDR3  
13 unique J



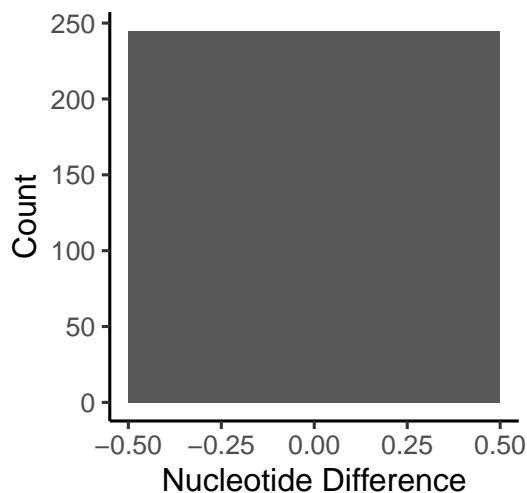
### TRBV15\*ap02

5338 sequences assigned  
5287 (99%) exact matches, in which:  
5182 unique CDR3  
13 unique J



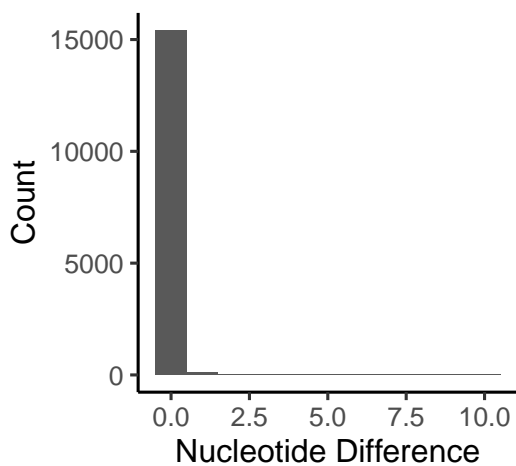
### TRBV16\*ap01

245 sequences assigned  
245 (100%) exact matches, in which:  
243 unique CDR3  
13 unique J



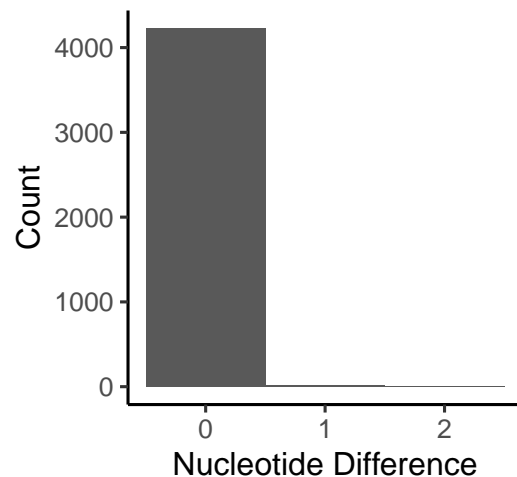
### TRBV19\*ap01

15560 sequences assigned  
15420 (99.1%) exact matches, in which:  
15325 unique CDR3  
13 unique J



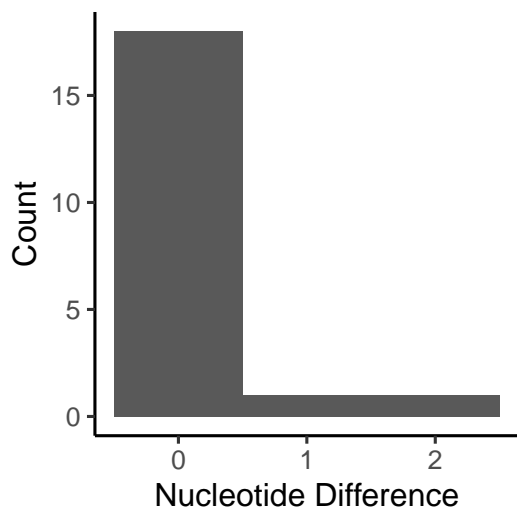
### TRBV28\*ap01

4249 sequences assigned  
4226 (99.5%) exact matches, in which:  
4181 unique CDR3  
13 unique J



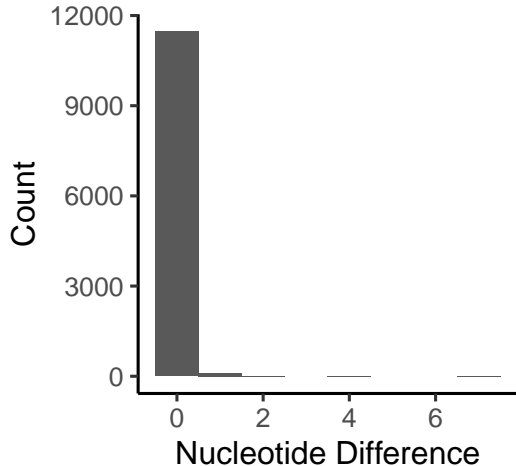
### TRBV17\*ap01

20 sequences assigned  
18 (90%) exact matches, in which:  
18 unique CDR3  
5 unique J



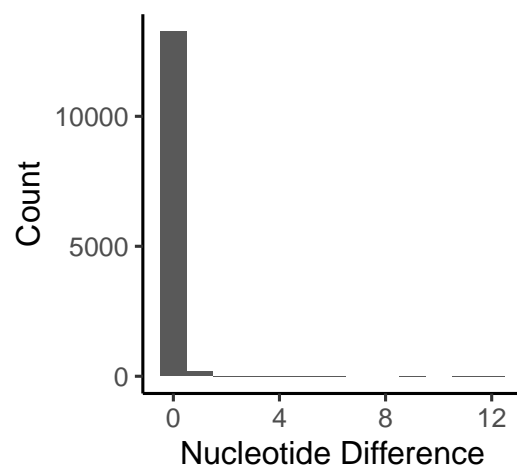
### TRBV2\*ap01

11590 sequences assigned  
11470 (99%) exact matches, in which:  
11236 unique CDR3  
13 unique J



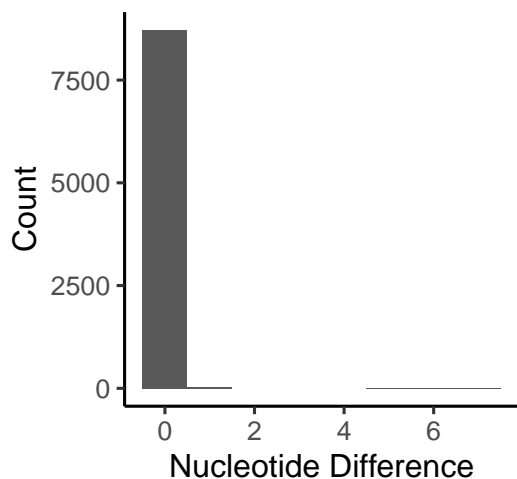
### TRBV30\*ap01

13461 sequences assigned  
13263 (98.5%) exact matches, in which:  
12984 unique CDR3  
13 unique J



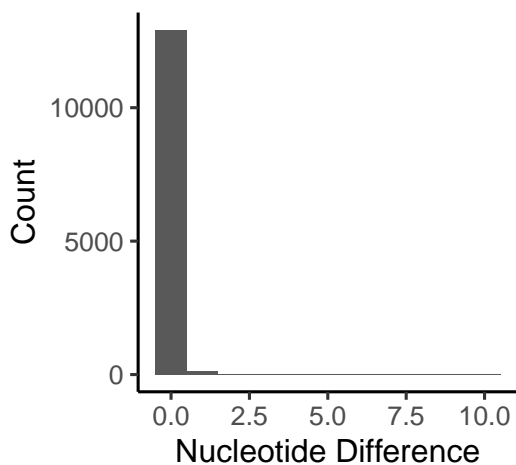
### TRBV18\*ap01

8749 sequences assigned  
8717 (99.6%) exact matches, in which:  
8669 unique CDR3  
13 unique J



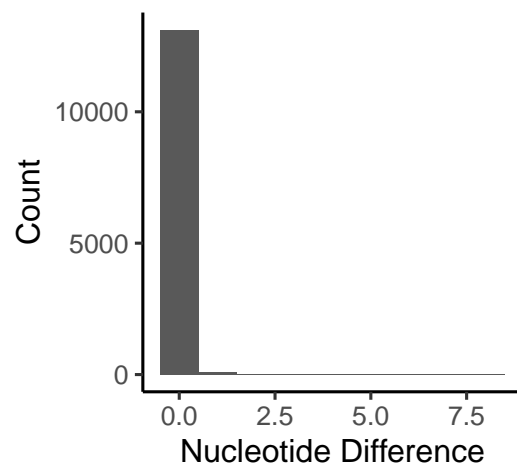
### TRBV27\*ap01

13086 sequences assigned  
12919 (98.7%) exact matches, in which:  
12652 unique CDR3  
13 unique J



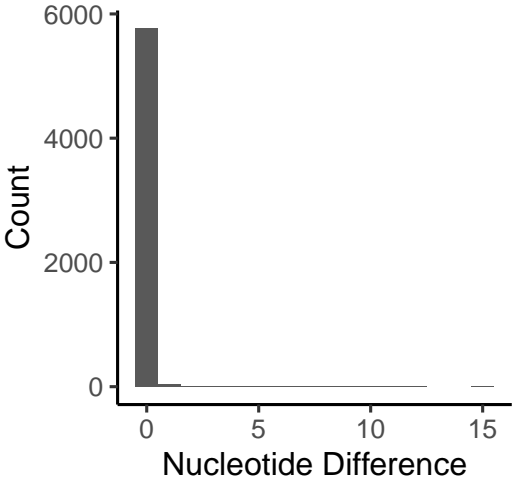
### TRBV9\*ap01

13219 sequences assigned  
13121 (99.3%) exact matches, in which:  
12958 unique CDR3  
13 unique J



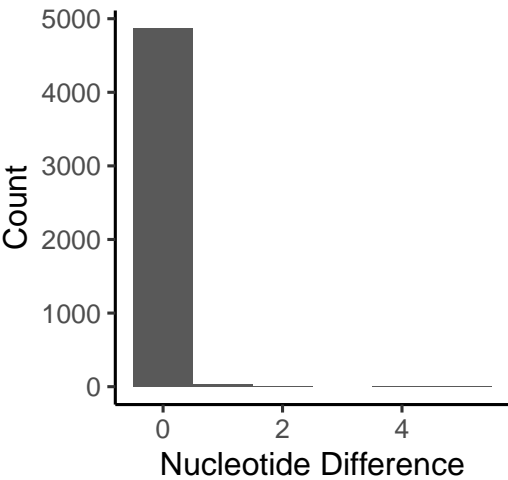
TRBV21-1\*ap01

5835 sequences assigned  
5767 (98.8%) exact matches, in which:  
5720 unique CDR3  
13 unique J



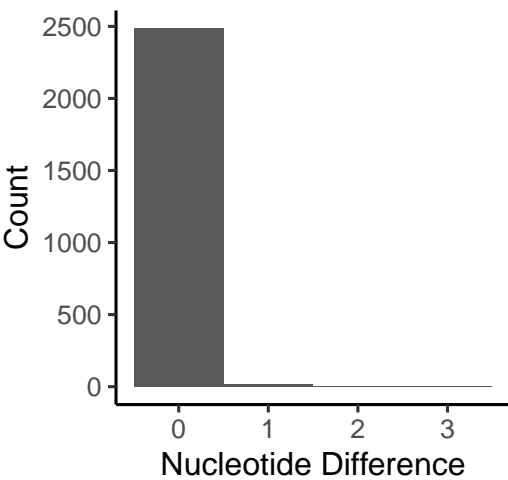
TRBV11-3\*ap01

4911 sequences assigned  
4868 (99.1%) exact matches, in which:  
4824 unique CDR3  
13 unique J



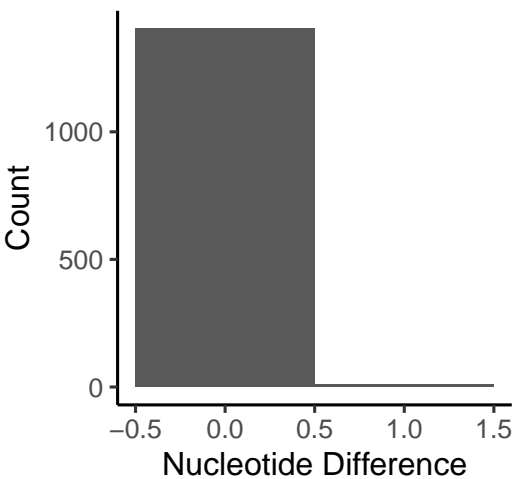
TRBV12-5\*ap01

2509 sequences assigned  
2486 (99.1%) exact matches, in which:  
2455 unique CDR3  
13 unique J



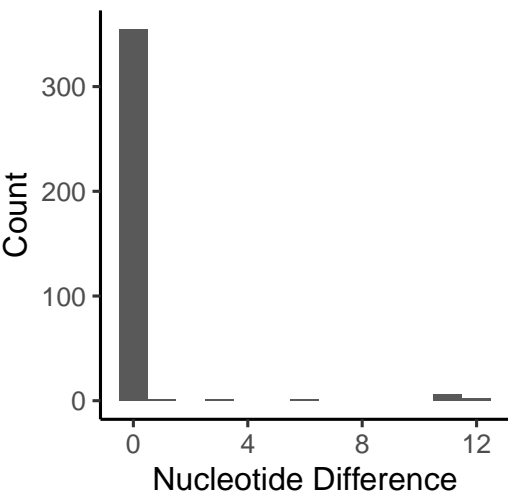
TRBV11-1\*ap01

1412 sequences assigned  
1404 (99.4%) exact matches, in which:  
1390 unique CDR3  
13 unique J



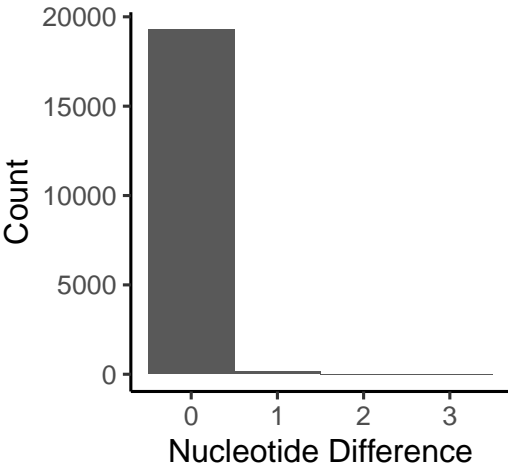
TRBV12-1\*ap01

366 sequences assigned  
355 (97%) exact matches, in which:  
347 unique CDR3  
13 unique J



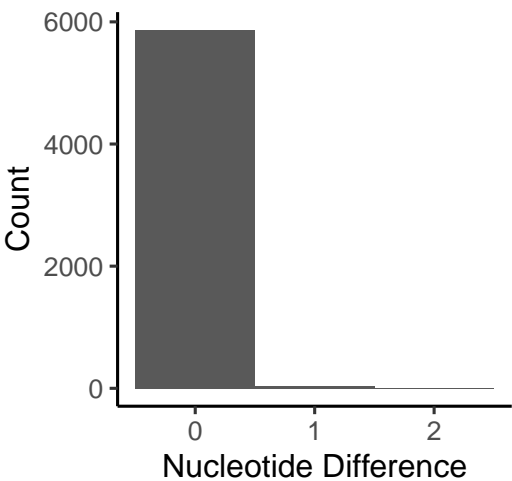
TRBV12-34\*ap01

19456 sequences assigned  
19292 (99.2%) exact matches, in which:  
18965 unique CDR3  
13 unique J



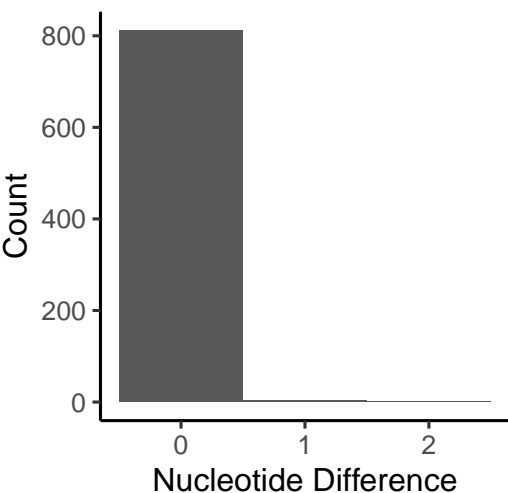
TRBV11-2\*ap01

5900 sequences assigned  
5866 (99.4%) exact matches, in which:  
5812 unique CDR3  
13 unique J



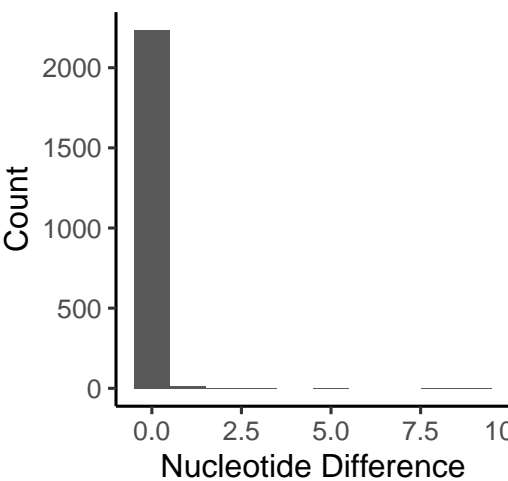
TRBV12-2\*ap01

818 sequences assigned  
812 (99.3%) exact matches, in which:  
802 unique CDR3  
13 unique J



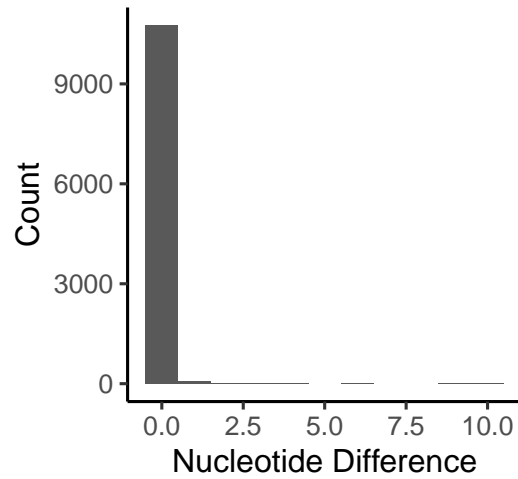
TRBV23-1\*ap01

2257 sequences assigned  
2235 (99%) exact matches, in which:  
2218 unique CDR3  
13 unique J



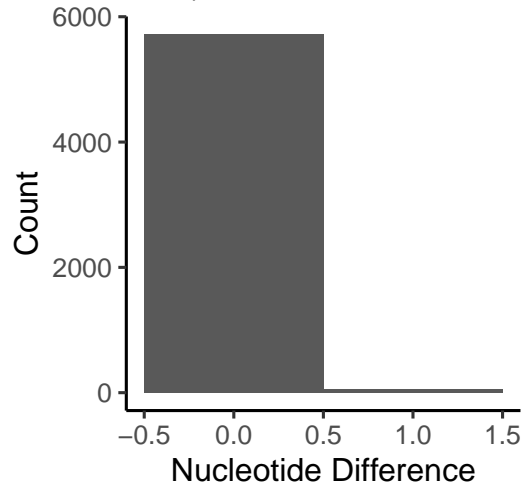
### TRBV3-12\*ap01

10854 sequences assigned  
10756 (99.1%) exact matches, in which:  
10577 unique CDR3  
13 unique J



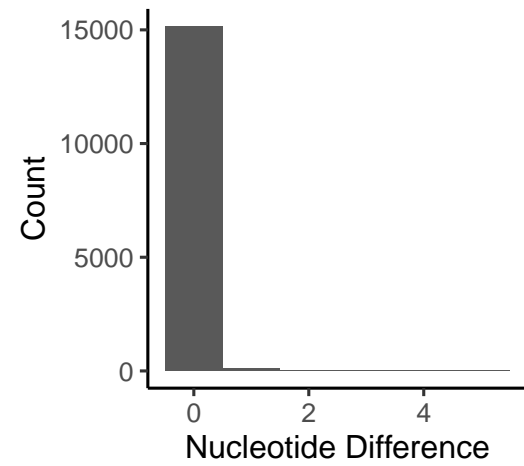
### TRBV4-2\*ap01

5777 sequences assigned  
5718 (99%) exact matches, in which:  
5616 unique CDR3  
13 unique J



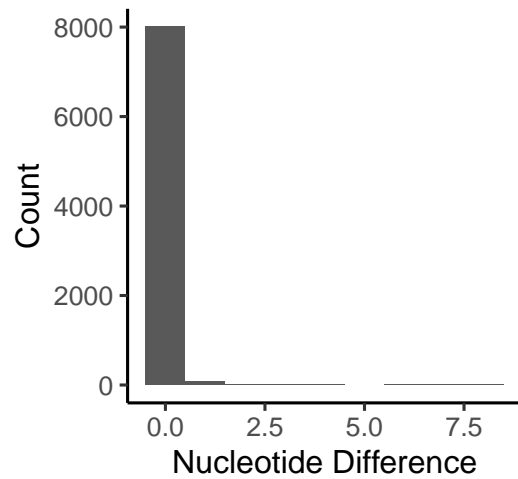
### TRBV5-1\*ap01

15294 sequences assigned  
15163 (99.1%) exact matches, in which:  
14802 unique CDR3  
13 unique J



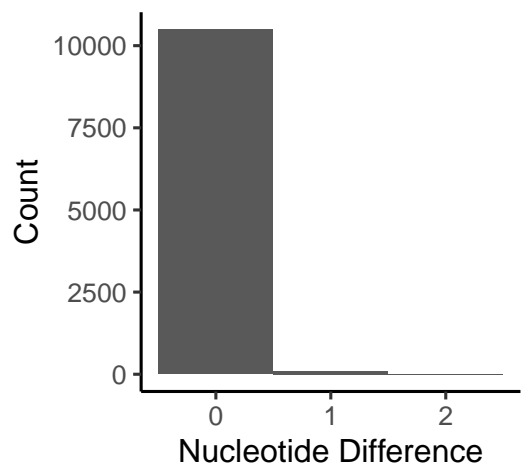
### TRBV24-1\*ap01

8102 sequences assigned  
8008 (98.8%) exact matches, in which:  
7855 unique CDR3  
13 unique J



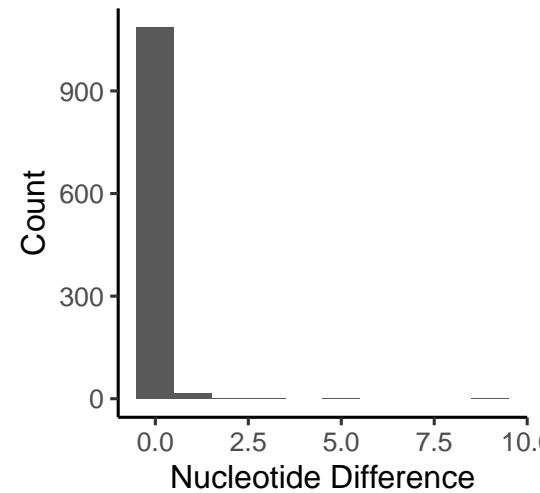
### TRBV4-3\*ap01

10591 sequences assigned  
10493 (99.1%) exact matches, in which:  
10271 unique CDR3  
13 unique J



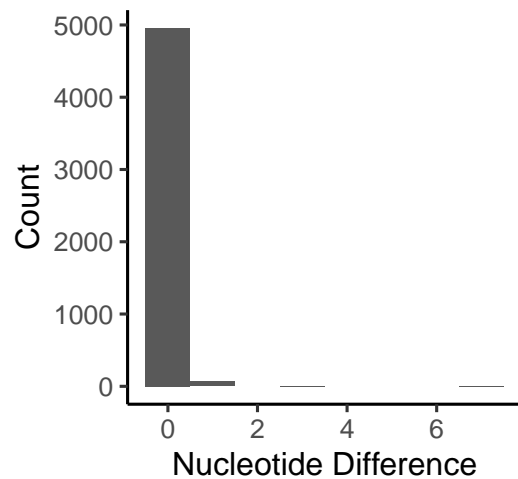
### TRBV5-3\*ap01

1109 sequences assigned  
1087 (98%) exact matches, in which:  
1073 unique CDR3  
13 unique J



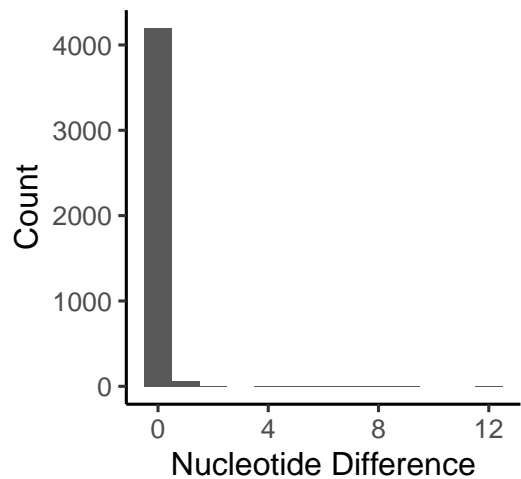
### TRBV4-1\*ap01

5024 sequences assigned  
4957 (98.7%) exact matches, in which:  
4834 unique CDR3  
13 unique J



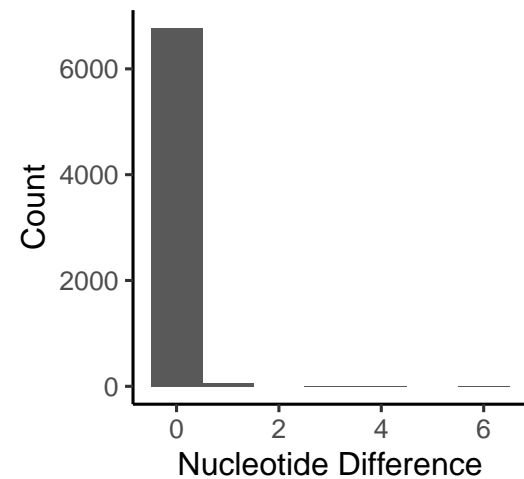
### TRBV25-1\*ap01

4274 sequences assigned  
4198 (98.2%) exact matches, in which:  
4097 unique CDR3  
13 unique J



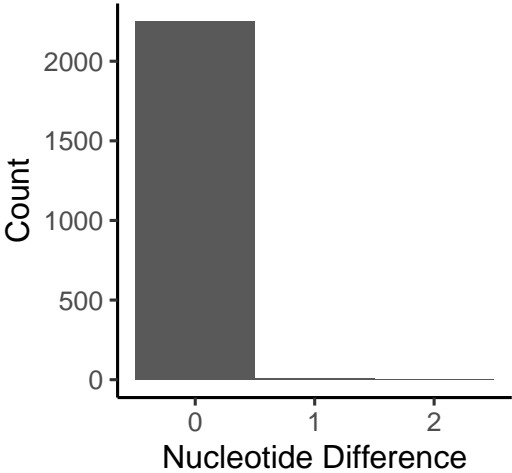
### TRBV5-4\*ap01

6833 sequences assigned  
6771 (99.1%) exact matches, in which:  
6622 unique CDR3  
13 unique J



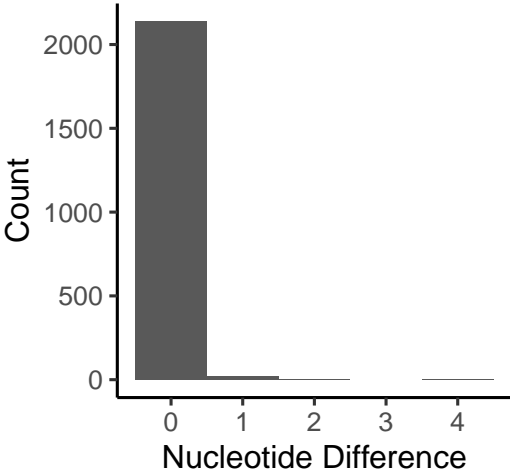
TRBV5-5\*ap01

2261 sequences assigned  
2250 (99.5%) exact matches, in which:  
2235 unique CDR3  
13 unique J



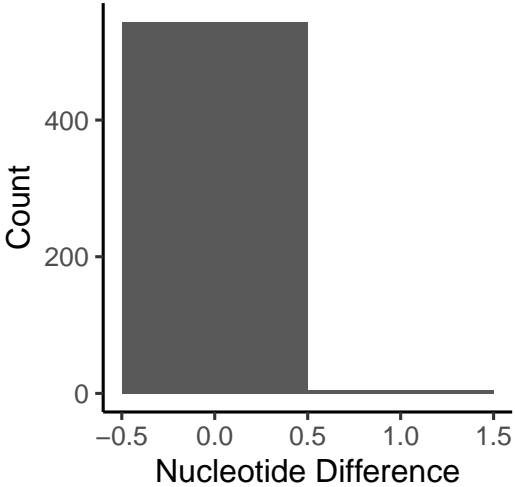
TRBV5-8\*ap01

2162 sequences assigned  
2138 (98.9%) exact matches, in which:  
2108 unique CDR3  
13 unique J



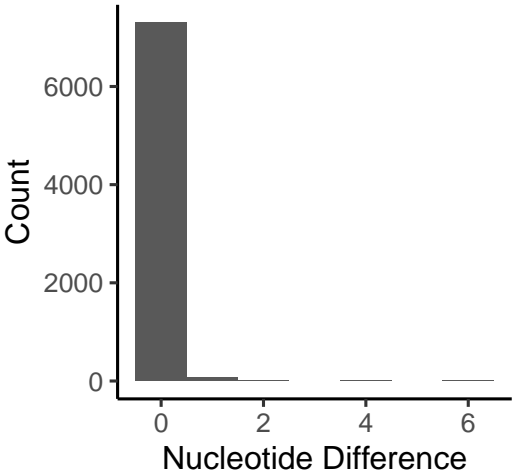
TRBV6-7\*ap01

549 sequences assigned  
544 (99.1%) exact matches, in which:  
533 unique CDR3  
13 unique J



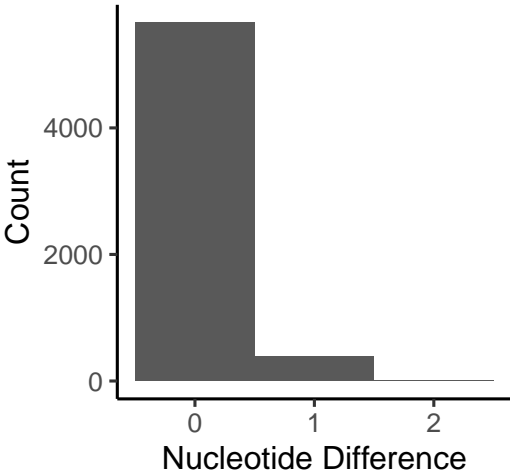
TRBV5-6\*ap01

7376 sequences assigned  
7299 (99%) exact matches, in which:  
7073 unique CDR3  
13 unique J



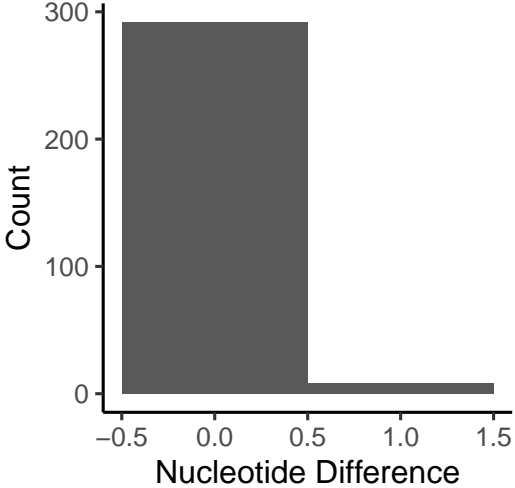
TRBV6-1\*ap01

6053 sequences assigned  
5662 (93.5%) exact matches, in which:  
5563 unique CDR3  
13 unique J



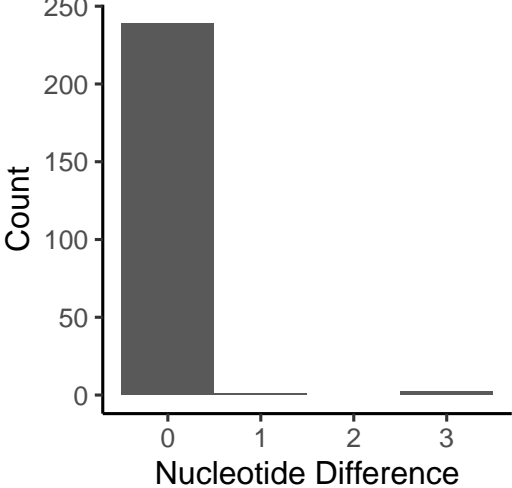
TRBV6-8\*ap01

300 sequences assigned  
292 (97.3%) exact matches, in which:  
285 unique CDR3  
13 unique J



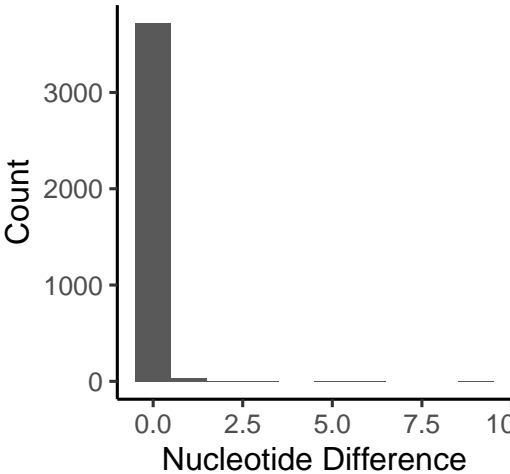
TRBV5-7\*ap01

242 sequences assigned  
239 (98.8%) exact matches, in which:  
234 unique CDR3  
13 unique J



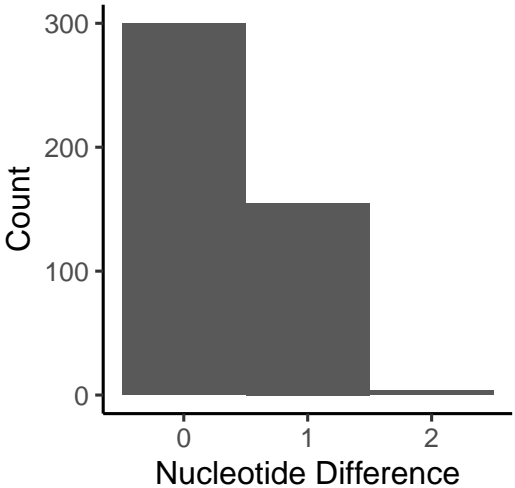
TRBV6-4\*ap01

3773 sequences assigned  
3721 (98.6%) exact matches, in which:  
3676 unique CDR3  
13 unique J



TRBV6-9\*ap01

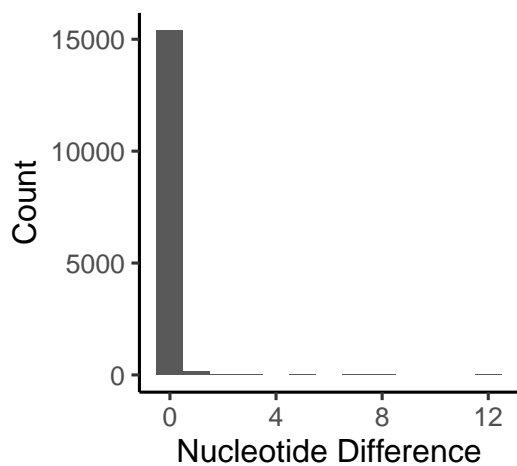
459 sequences assigned  
300 (65.4%) exact matches, in which:  
293 unique CDR3  
13 unique J





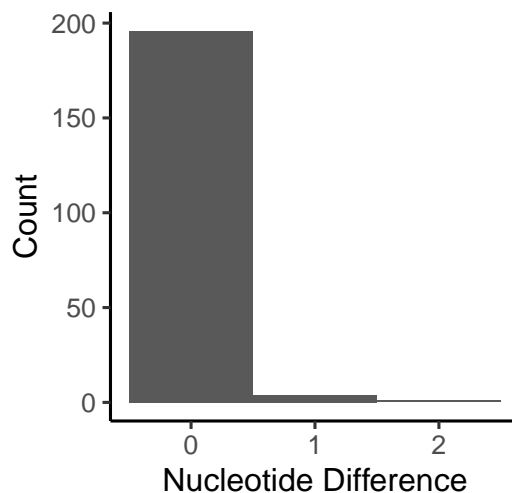
### TRBV6–23\*ap01

15580 sequences assigned  
15407 (98.9%) exact matches, in which:  
15017 unique CDR3  
13 unique J



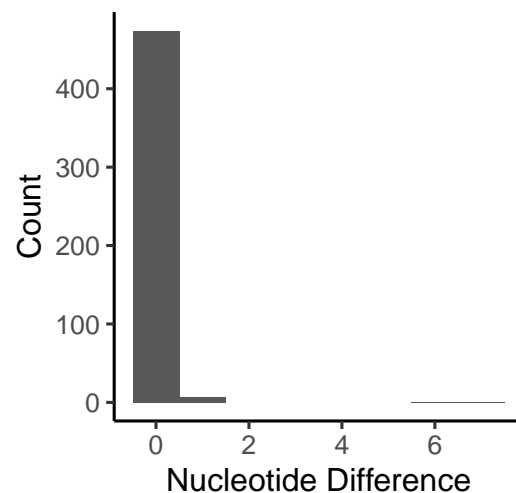
### TRBV7–1\*ap01\_G291C\_

201 sequences assigned  
196 (97.5%) exact matches, in which:  
194 unique CDR3  
13 unique J



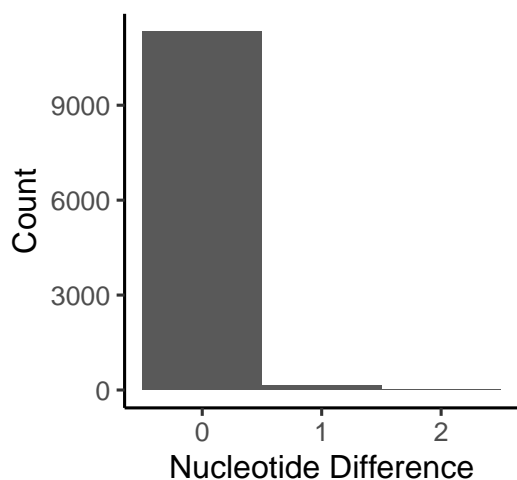
### TRBV7–4\*ap01

483 sequences assigned  
474 (98.1%) exact matches, in which:  
467 unique CDR3  
13 unique J



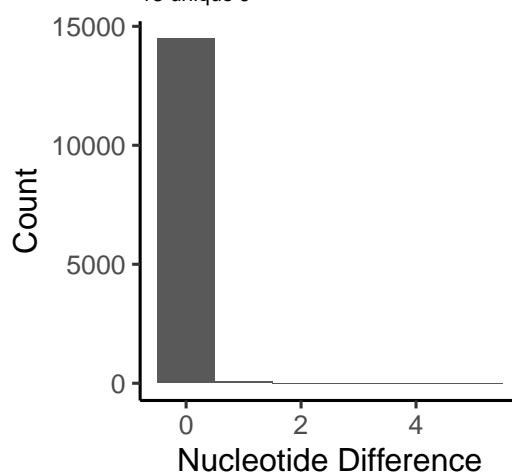
### TRBV6–56\*ap01

11451 sequences assigned  
11323 (98.9%) exact matches, in which:  
11076 unique CDR3  
13 unique J



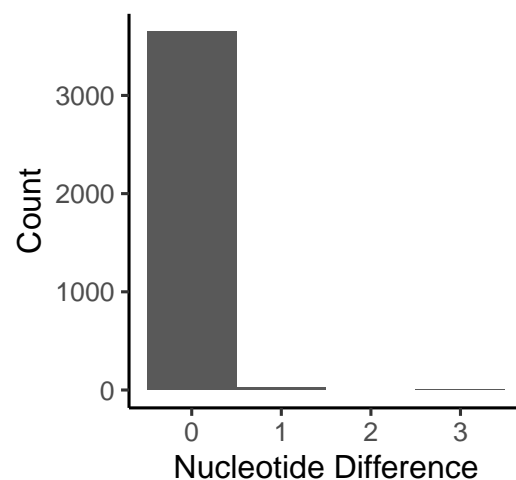
### TRBV7–2\*ap01

14569 sequences assigned  
14489 (99.5%) exact matches, in which:  
14305 unique CDR3  
13 unique J



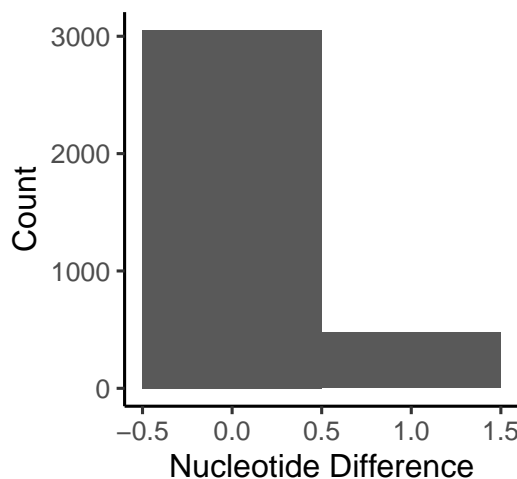
### TRBV7–6\*ap01

3678 sequences assigned  
3649 (99.2%) exact matches, in which:  
3596 unique CDR3  
13 unique J



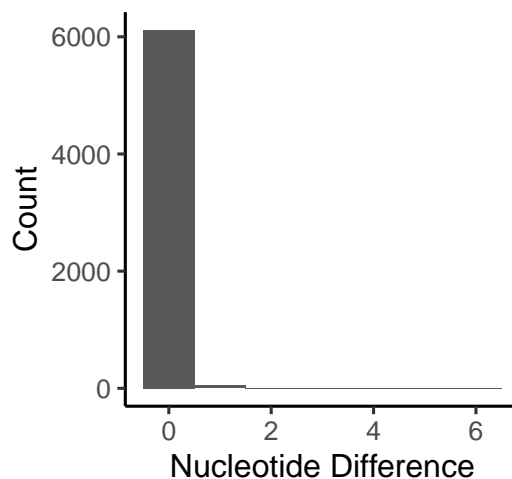
### TRBV6–56\*ap02

3529 sequences assigned  
3053 (86.5%) exact matches, in which:  
2979 unique CDR3  
13 unique J



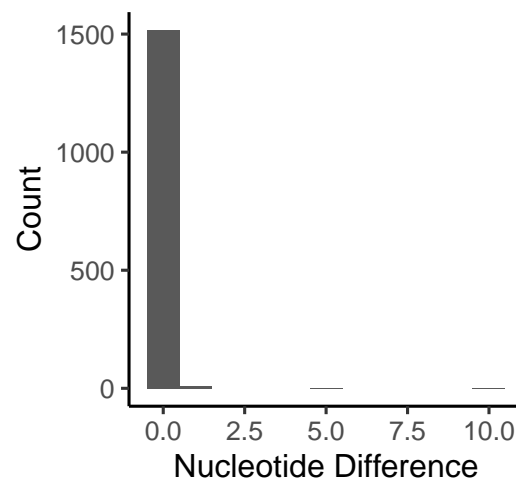
### TRBV7–3\*ap01

6171 sequences assigned  
6115 (99.1%) exact matches, in which:  
6055 unique CDR3  
13 unique J



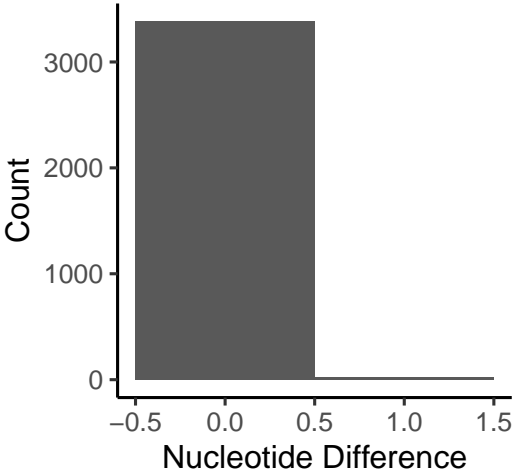
### TRBV7–7\*ap01\_C315T

1528 sequences assigned  
1517 (99.3%) exact matches, in which:  
1501 unique CDR3  
13 unique J



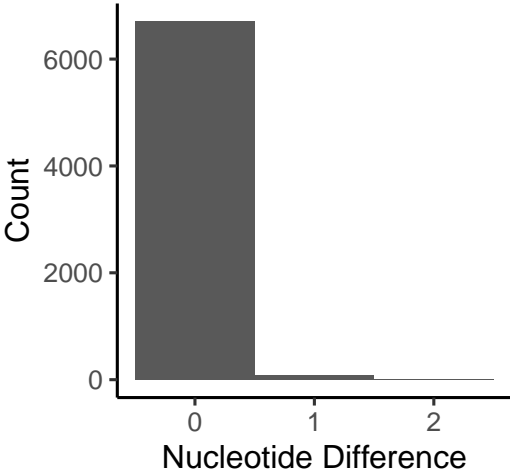
TRBV7-8\*ap01

3409 sequences assigned  
3383 (99.2%) exact matches, in which:  
3326 unique CDR3  
13 unique J



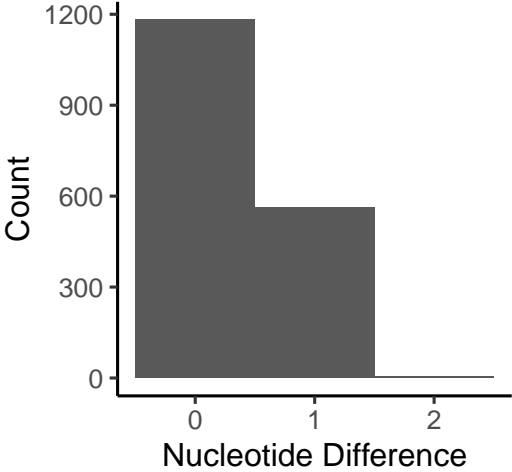
TRBV29-1\*ap01

6791 sequences assigned  
6705 (98.7%) exact matches, in which:  
6539 unique CDR3  
13 unique J



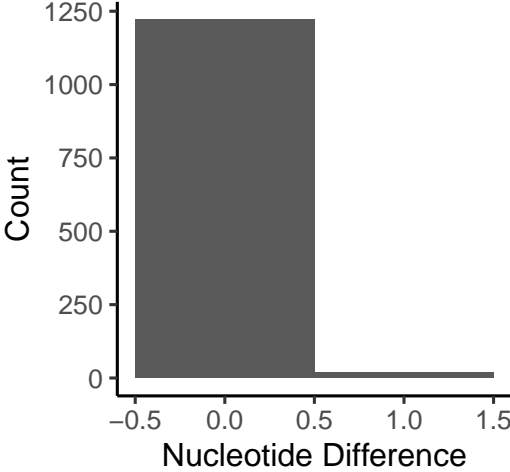
TRBV7-8\*ap03

1750 sequences assigned  
1182 (67.5%) exact matches, in which:  
1155 unique CDR3  
13 unique J



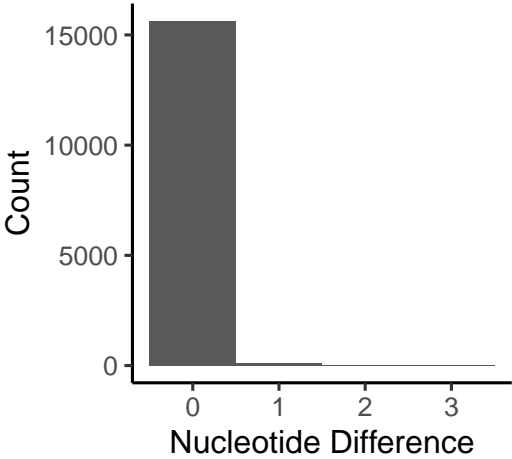
TRBV29-1\*ap02

1240 sequences assigned  
1221 (98.5%) exact matches, in which:  
1191 unique CDR3  
13 unique J

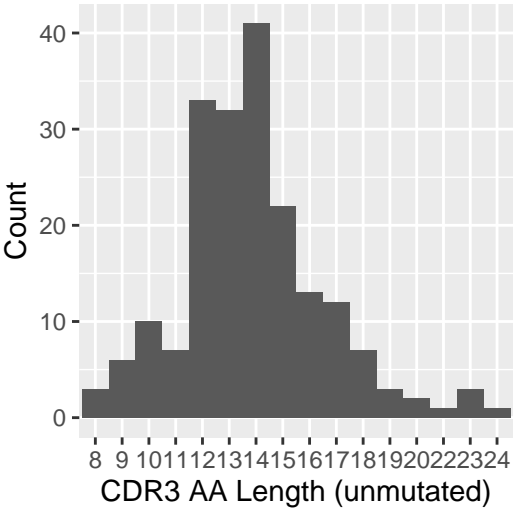


TRBV7-9\*ap01

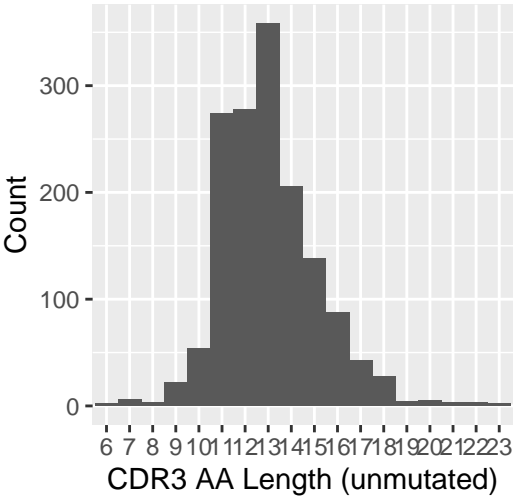
15754 sequences assigned  
15642 (99.3%) exact matches, in which:  
15468 unique CDR3  
13 unique J



TRBV7-1\*ap01\_G291C\_T296C



TRBV7-7\*ap01\_C315T





[illegible]