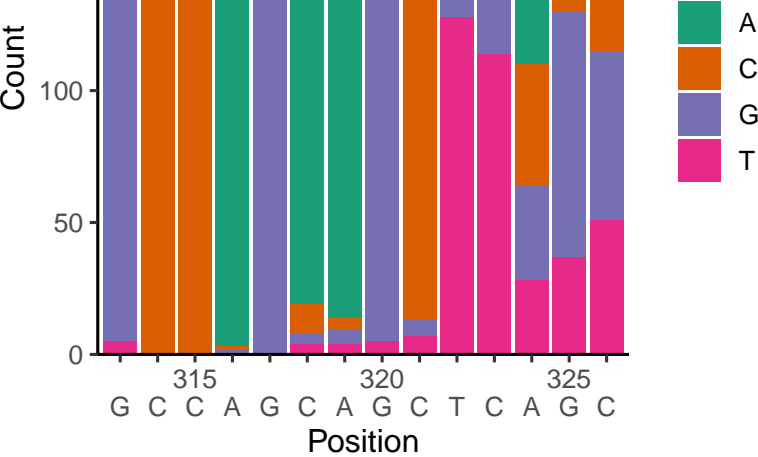


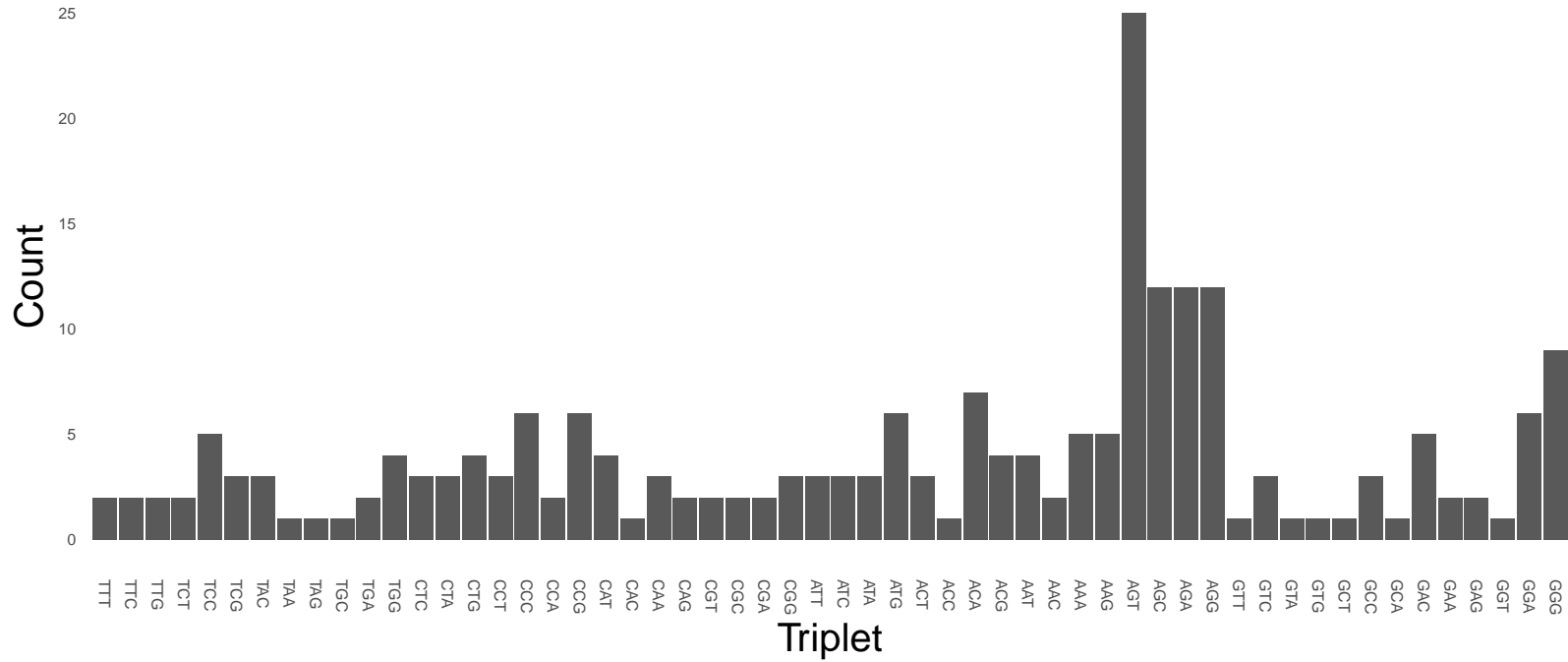
Gene TRBV7-1\*ap01\_G291C\_T296C



Gene TRBV7-1\*ap01\_G291C\_T296C

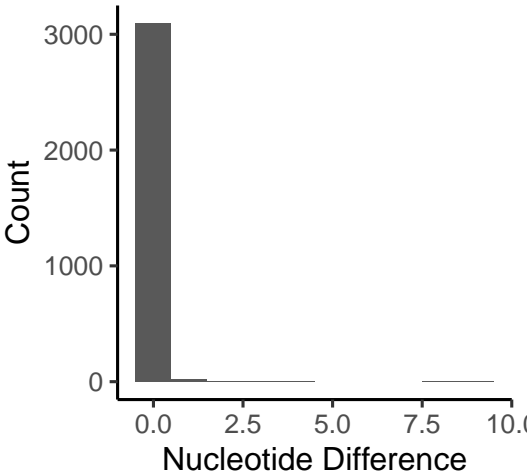


TRBV7-1\*ap01\_G291C\_T296C- Final 3 nucleotides as a triplet



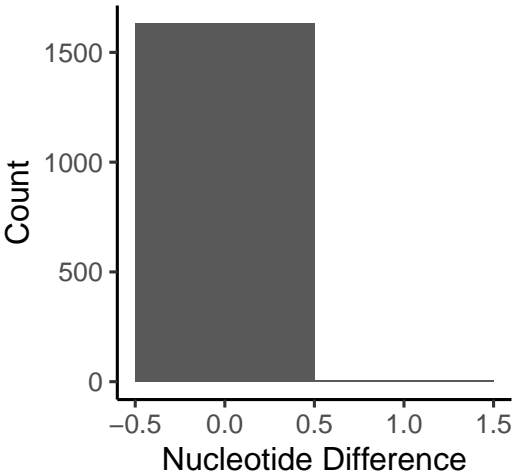
TRBV10-1\*ap01

3124 sequences assigned  
3094 (99%) exact matches, in which:  
3051 unique CDR3  
13 unique J



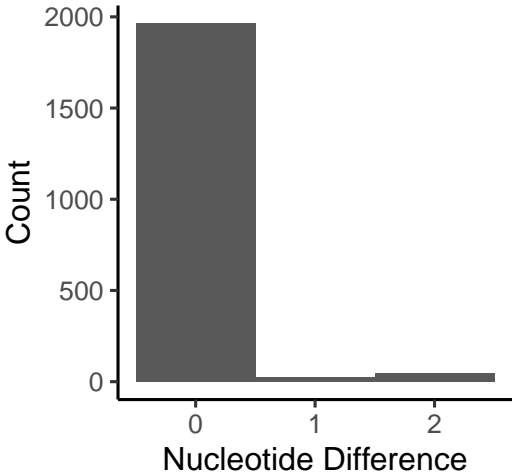
TRBV10-2\*ap01

1641 sequences assigned  
1632 (99.5%) exact matches, in which:  
1602 unique CDR3  
13 unique J



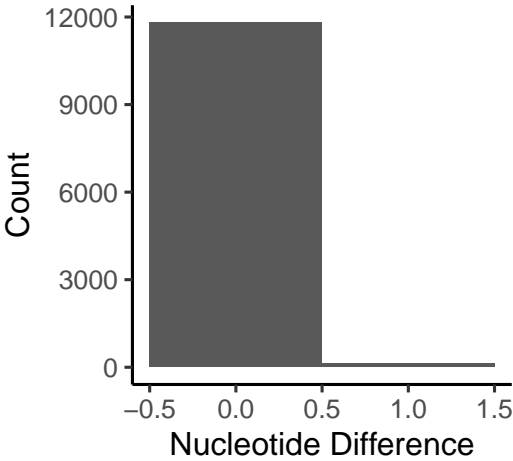
TRBV13\*ap01

2036 sequences assigned  
1964 (96.5%) exact matches, in which:  
1920 unique CDR3  
13 unique J



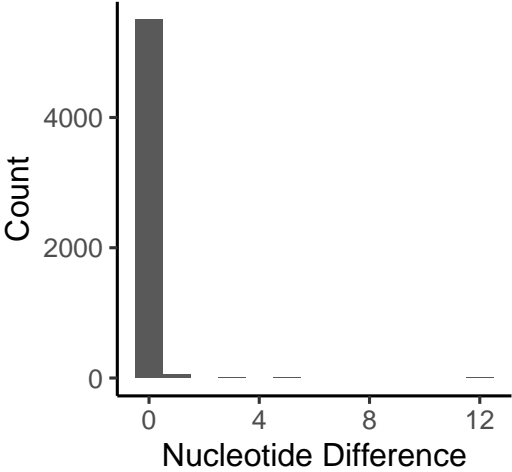
TRBV20-1\*ap01

11943 sequences assigned  
11813 (98.9%) exact matches, in which:  
11655 unique CDR3  
13 unique J



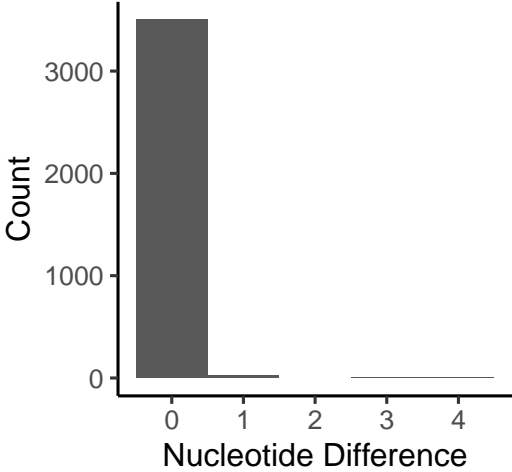
TRBV10-3\*ap01

5556 sequences assigned  
5501 (99%) exact matches, in which:  
5411 unique CDR3  
13 unique J



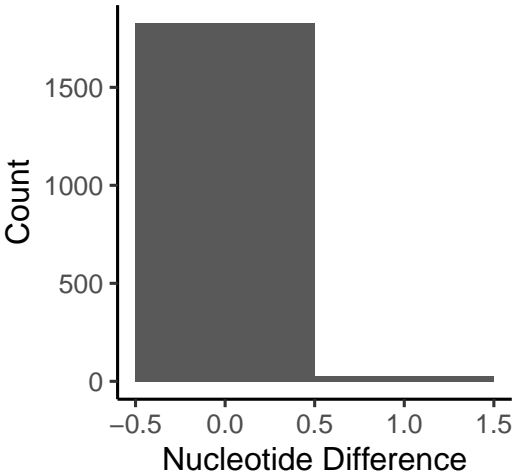
TRBV14\*ap01

3534 sequences assigned  
3502 (99.1%) exact matches, in which:  
3449 unique CDR3  
13 unique J



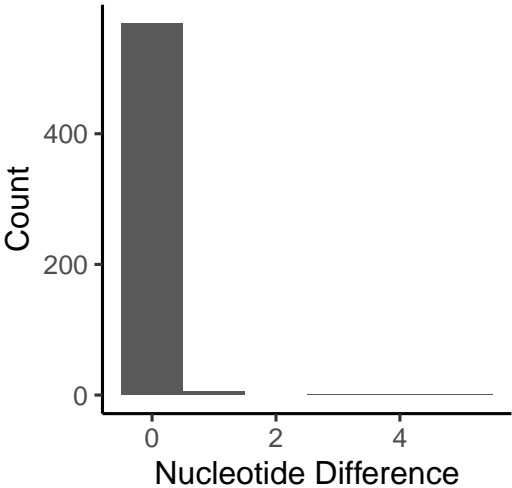
TRBV20-1\*ap02

1855 sequences assigned  
1828 (98.5%) exact matches, in which:  
1808 unique CDR3  
13 unique J



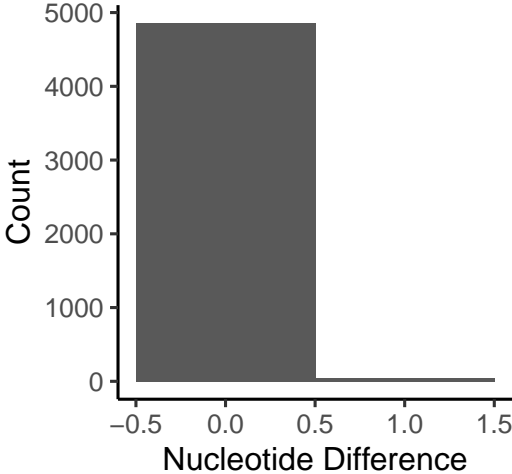
TRBV1\*ap01

577 sequences assigned  
569 (98.6%) exact matches, in which:  
562 unique CDR3  
13 unique J



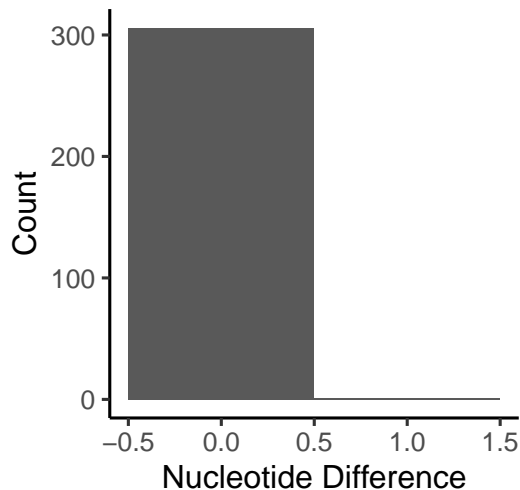
TRBV15\*ap02

4905 sequences assigned  
4858 (99%) exact matches, in which:  
4777 unique CDR3  
13 unique J



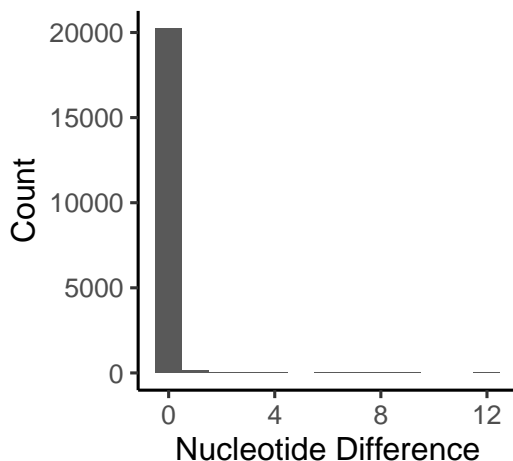
### TRBV16\*ap01

307 sequences assigned  
306 (99.7%) exact matches, in which:  
303 unique CDR3  
13 unique J



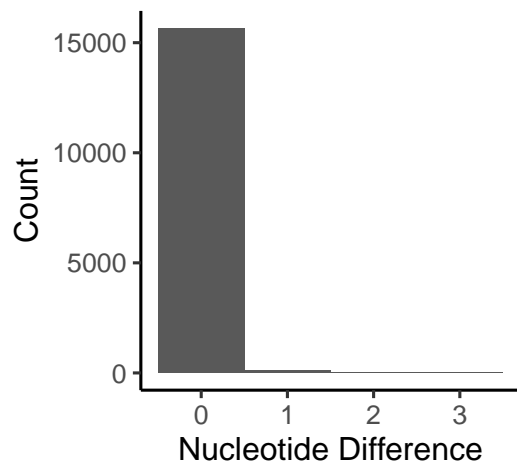
### TRBV19\*ap01

20429 sequences assigned  
20255 (99.1%) exact matches, in which:  
20087 unique CDR3  
13 unique J



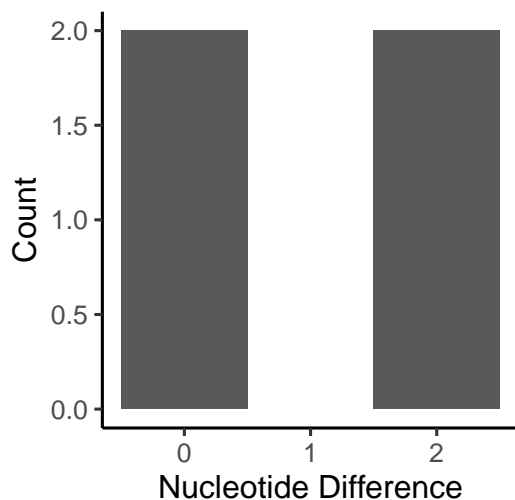
### TRBV28\*ap01

15781 sequences assigned  
15660 (99.2%) exact matches, in which:  
15448 unique CDR3  
13 unique J



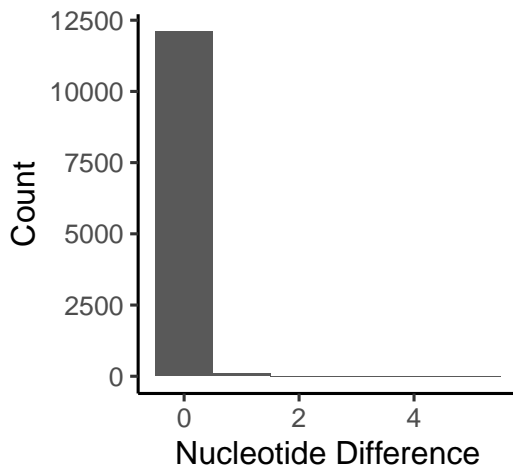
### TRBV17\*ap01

4 sequences assigned  
2 (50%) exact matches, in which:  
2 unique CDR3  
2 unique J



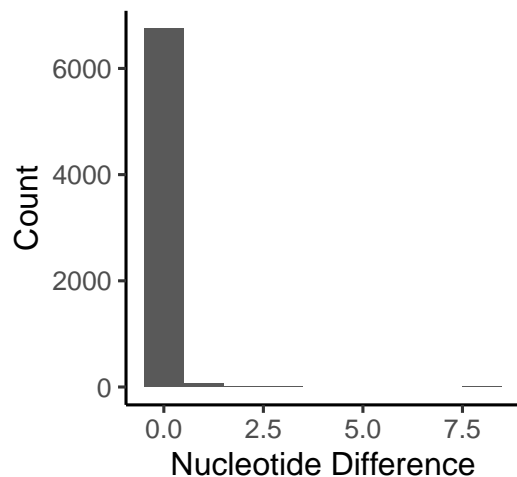
### TRBV2\*ap01

12204 sequences assigned  
12105 (99.2%) exact matches, in which:  
11908 unique CDR3  
13 unique J



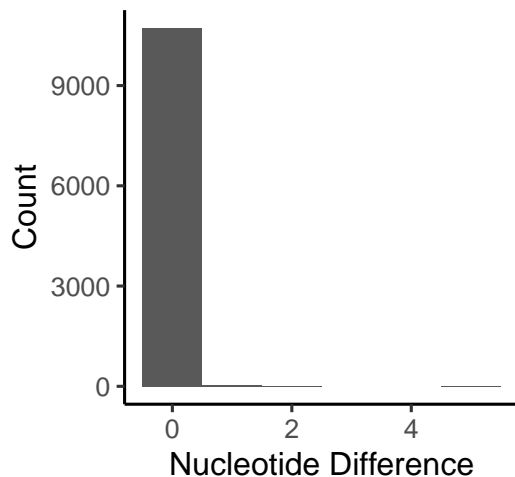
### TRBV30\*ap01

6829 sequences assigned  
6748 (98.8%) exact matches, in which:  
6623 unique CDR3  
13 unique J



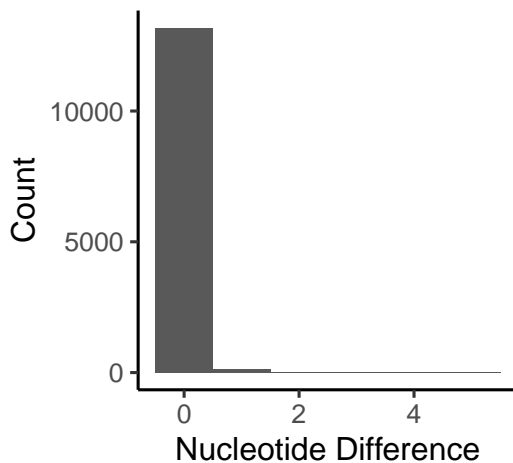
### TRBV18\*ap01

10765 sequences assigned  
10721 (99.6%) exact matches, in which:  
10627 unique CDR3  
13 unique J



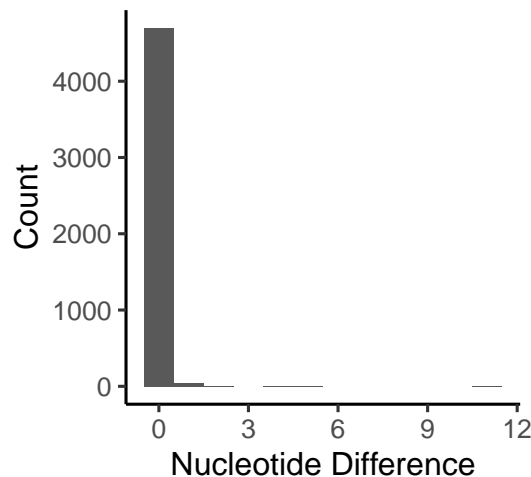
### TRBV27\*ap01

13310 sequences assigned  
13182 (99%) exact matches, in which:  
12942 unique CDR3  
13 unique J



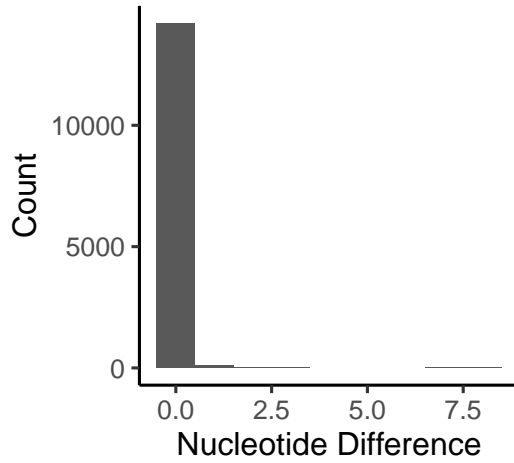
### TRBV30\*ap02

4746 sequences assigned  
4697 (99%) exact matches, in which:  
4616 unique CDR3  
13 unique J



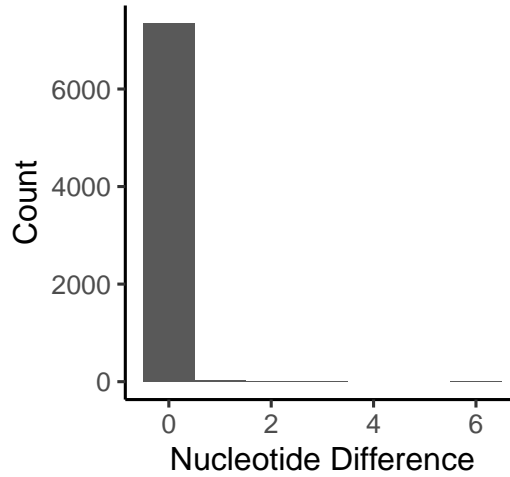
### TRBV9\*ap01

14319 sequences assigned  
14211 (99.2%) exact matches, in which:  
14042 unique CDR3  
13 unique J



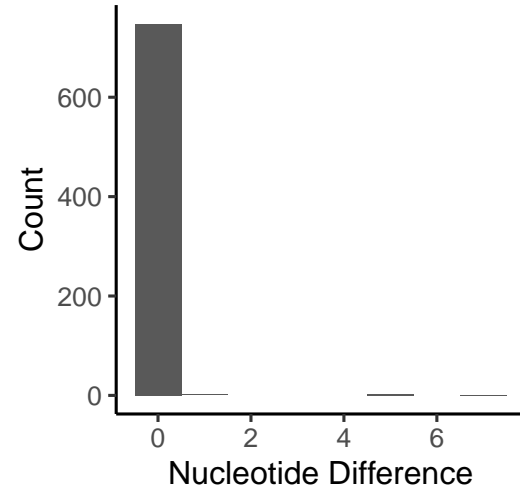
### TRBV11-2\*ap01

7374 sequences assigned  
7345 (99.6%) exact matches, in which:  
7299 unique CDR3  
13 unique J



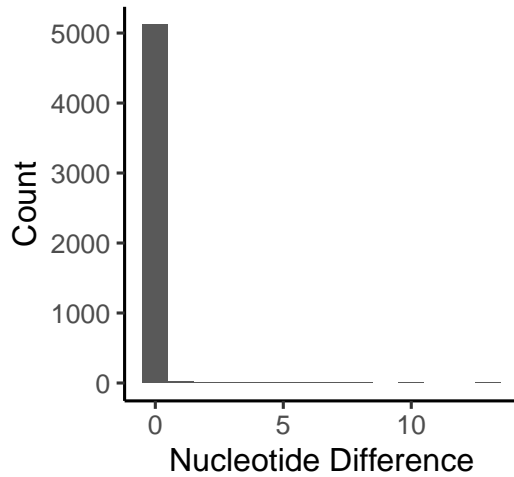
### TRBV12-2\*ap01

754 sequences assigned  
748 (99.2%) exact matches, in which:  
737 unique CDR3  
13 unique J



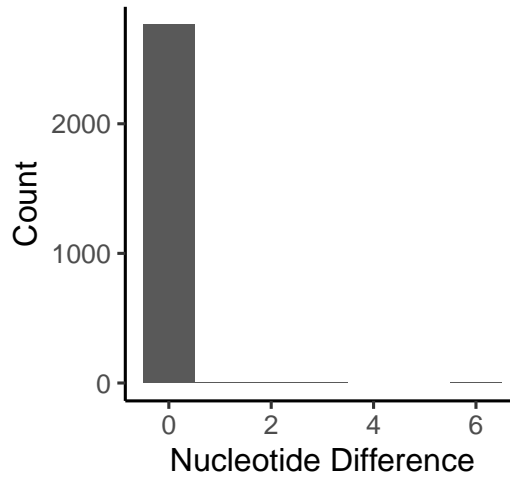
### TRBV21-1\*ap01

5169 sequences assigned  
5119 (99%) exact matches, in which:  
5078 unique CDR3  
13 unique J



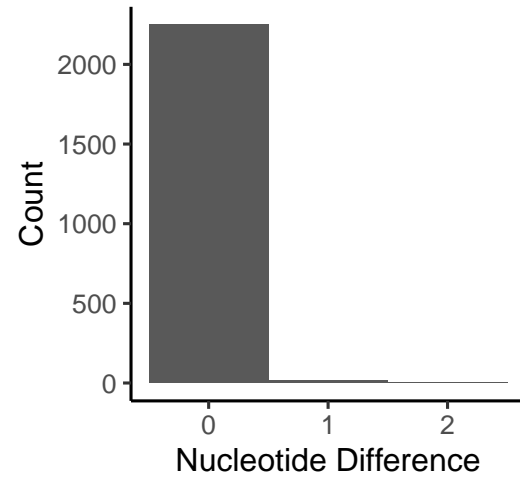
### TRBV11-3\*ap01

2775 sequences assigned  
2764 (99.6%) exact matches, in which:  
2751 unique CDR3  
14 unique J



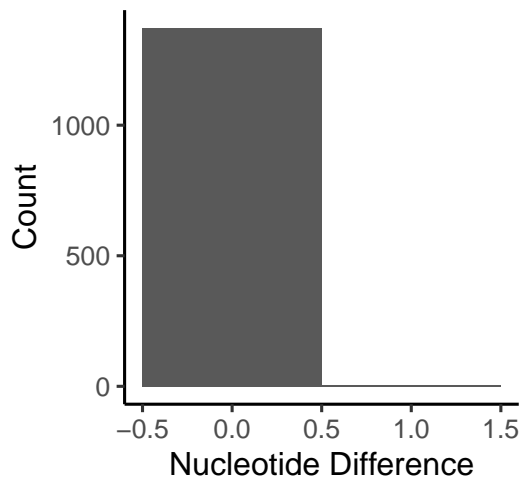
### TRBV12-5\*ap01

2268 sequences assigned  
2249 (99.2%) exact matches, in which:  
2212 unique CDR3  
13 unique J



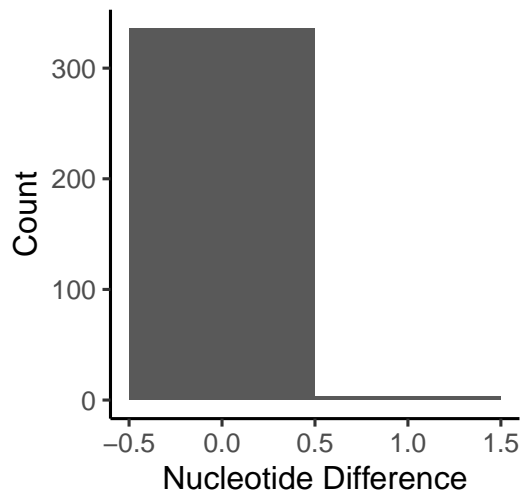
### TRBV11-1\*ap01

1376 sequences assigned  
1372 (99.7%) exact matches, in which:  
1365 unique CDR3  
13 unique J



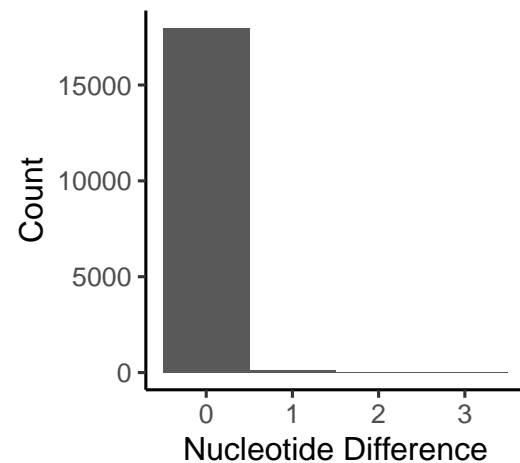
### TRBV12-1\*ap01

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



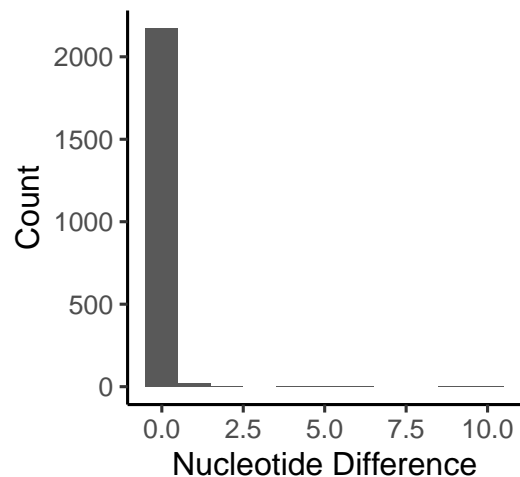
### TRBV12-34\*ap01

18141 sequences assigned  
17984 (99.1%) exact matches, in which:  
17697 unique CDR3  
13 unique J



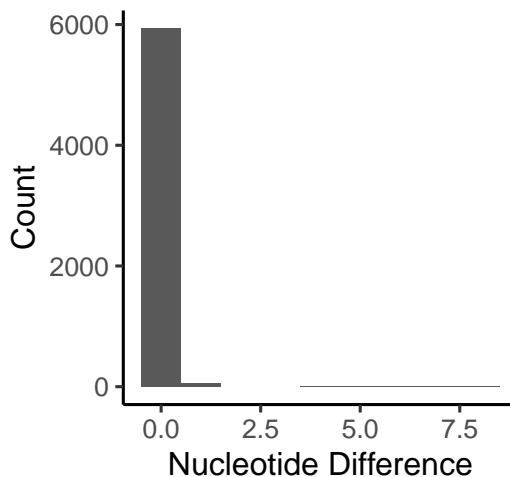
### TRBV23-1\*ap01

2202 sequences assigned  
2172 (98.6%) exact matches, in which:  
2141 unique CDR3  
13 unique J



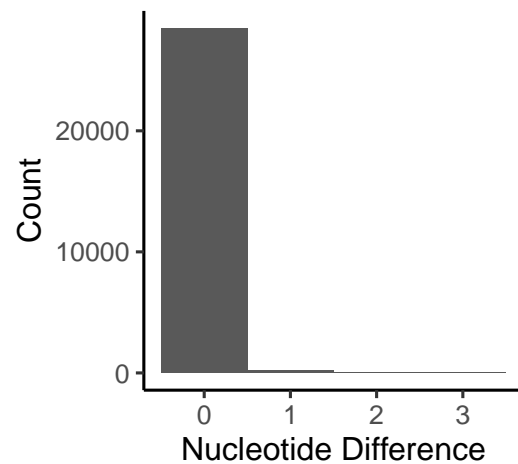
### TRBV24-1\*ap01

6004 sequences assigned  
5936 (98.9%) exact matches, in which:  
5835 unique CDR3  
13 unique J



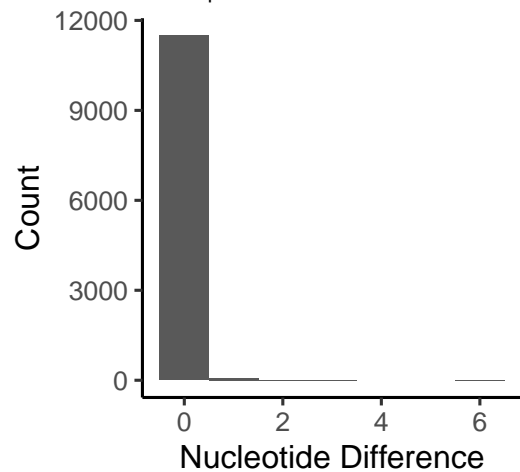
### TRBV5-1\*ap01

28722 sequences assigned  
28481 (99.2%) exact matches, in which:  
27894 unique CDR3  
13 unique J



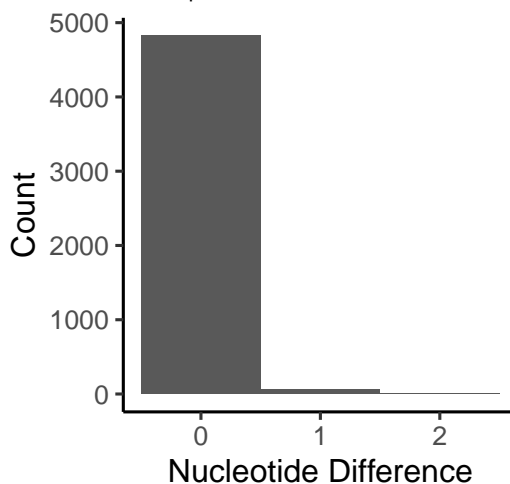
### TRBV3-12\*ap01

11582 sequences assigned  
11498 (99.3%) exact matches, in which:  
11392 unique CDR3  
13 unique J



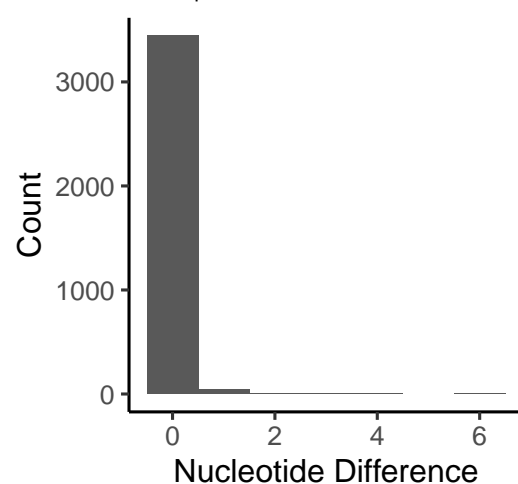
### TRBV4-2\*ap01

4884 sequences assigned  
4824 (98.8%) exact matches, in which:  
4748 unique CDR3  
13 unique J



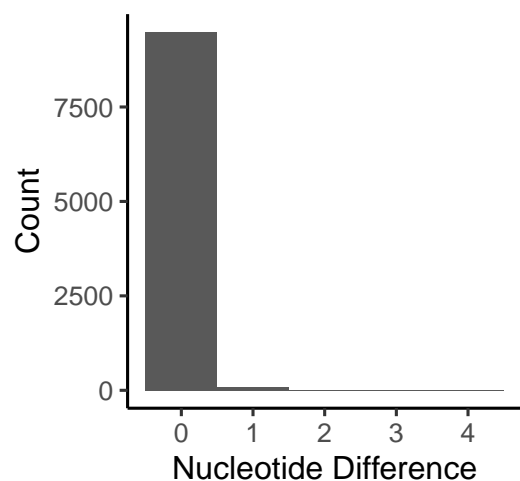
### TRBV25-1\*ap01

3494 sequences assigned  
3444 (98.6%) exact matches, in which:  
3374 unique CDR3  
13 unique J



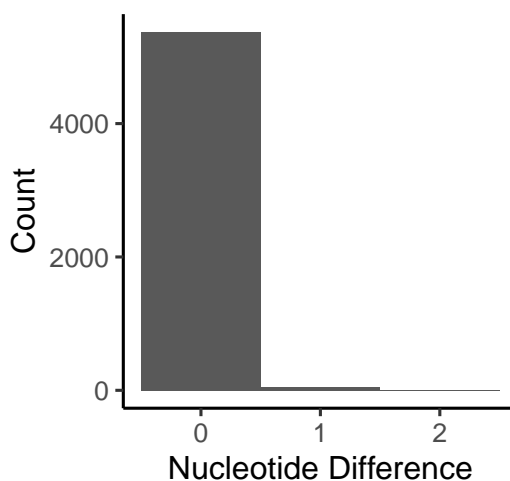
### TRBV4-1\*ap01

9571 sequences assigned  
9484 (99.1%) exact matches, in which:  
9295 unique CDR3  
13 unique J



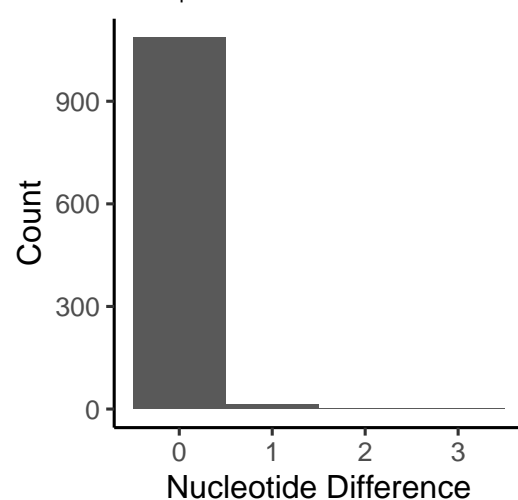
### TRBV4-3\*ap01

5426 sequences assigned  
5373 (99%) exact matches, in which:  
5260 unique CDR3  
13 unique J



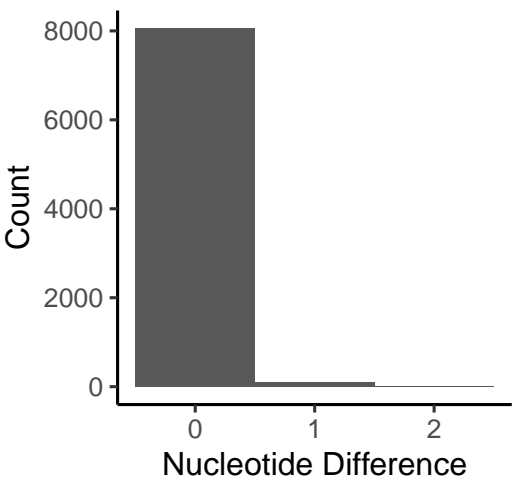
### TRBV5-3\*ap01

1103 sequences assigned  
1087 (98.5%) exact matches, in which:  
1077 unique CDR3  
13 unique J



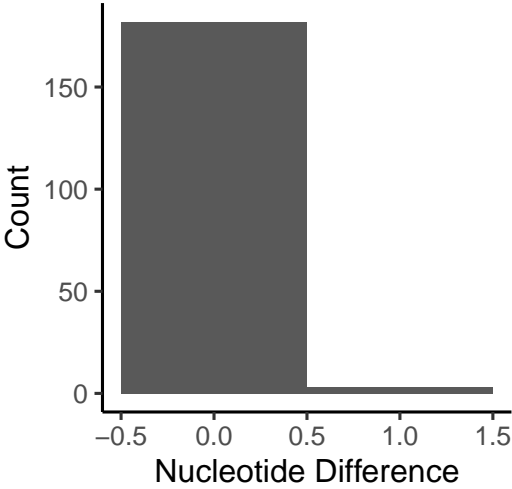
TRBV5-4\*ap01

8149 sequences assigned  
8056 (98.9%) exact matches, in which:  
7905 unique CDR3  
13 unique J



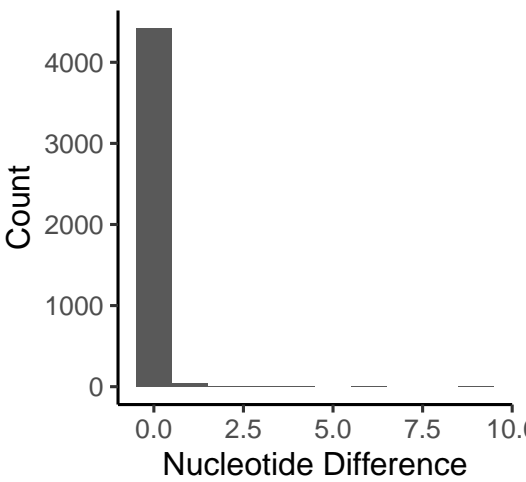
TRBV5-7\*ap01

185 sequences assigned  
182 (98.4%) exact matches, in which:  
176 unique CDR3  
13 unique J



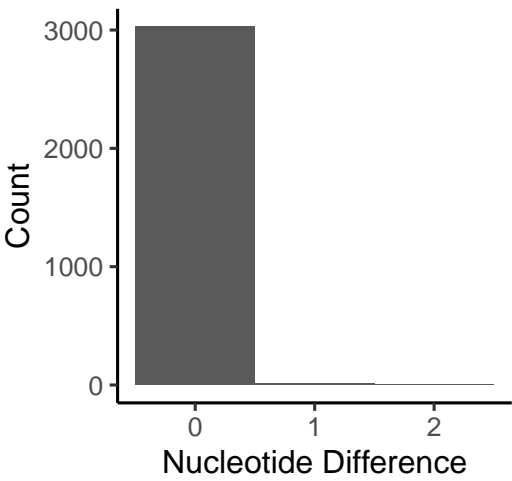
TRBV6-4\*ap01

4469 sequences assigned  
4418 (98.9%) exact matches, in which:  
4367 unique CDR3  
13 unique J



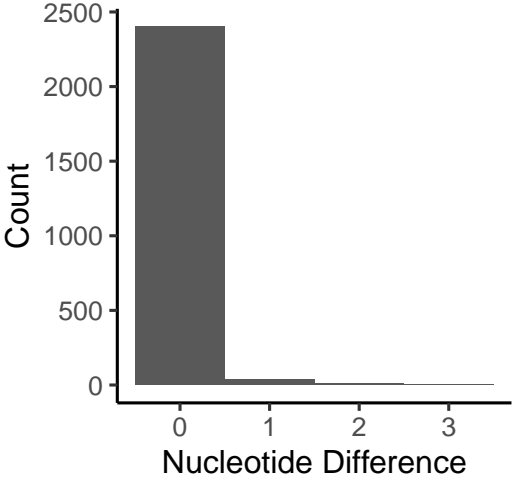
TRBV5-5\*ap01

3046 sequences assigned  
3028 (99.4%) exact matches, in which:  
3003 unique CDR3  
13 unique J



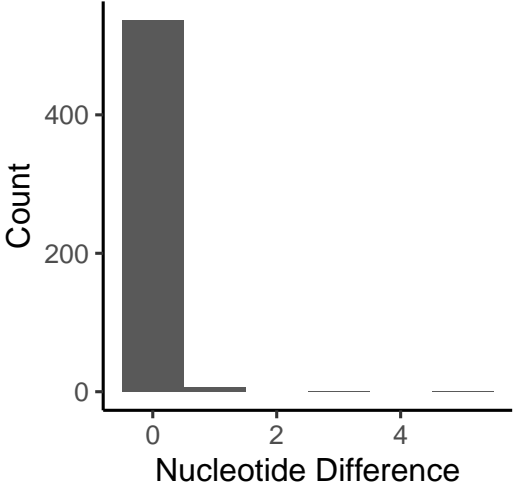
TRBV5-8\*ap01

2447 sequences assigned  
2401 (98.1%) exact matches, in which:  
2363 unique CDR3  
13 unique J



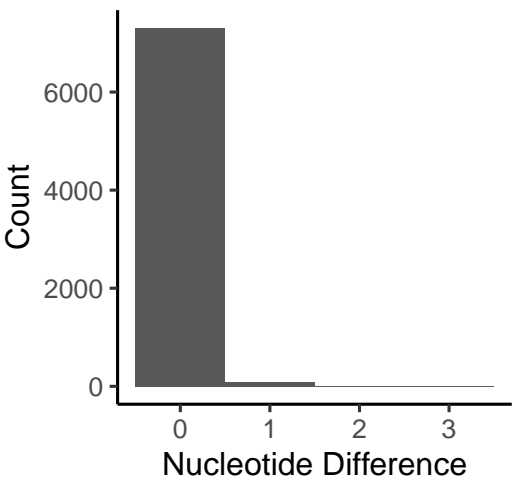
TRBV6-7\*ap01

545 sequences assigned  
537 (98.5%) exact matches, in which:  
525 unique CDR3  
13 unique J



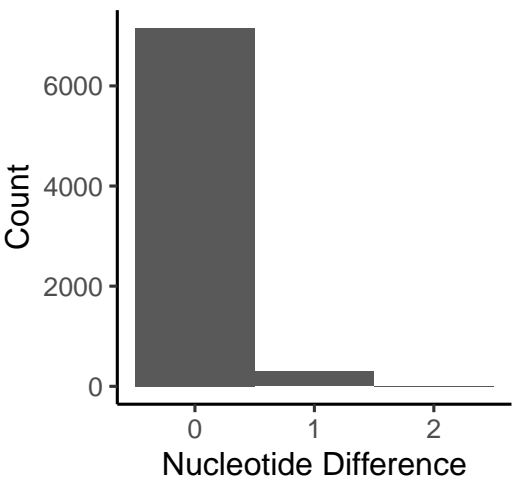
TRBV5-6\*ap01

7394 sequences assigned  
7305 (98.8%) exact matches, in which:  
7107 unique CDR3  
13 unique J



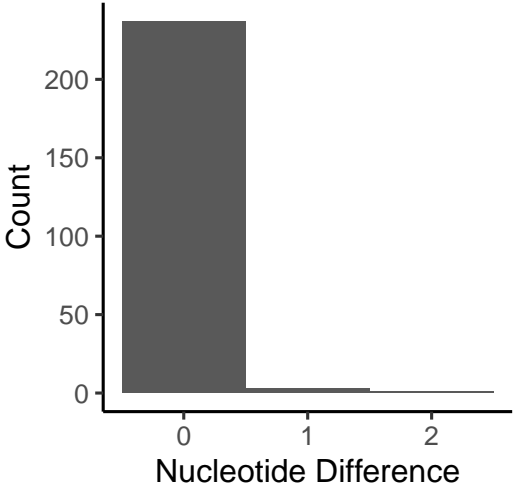
TRBV6-1\*ap01

7452 sequences assigned  
7155 (96%) exact matches, in which:  
7031 unique CDR3  
13 unique J



TRBV6-8\*ap01

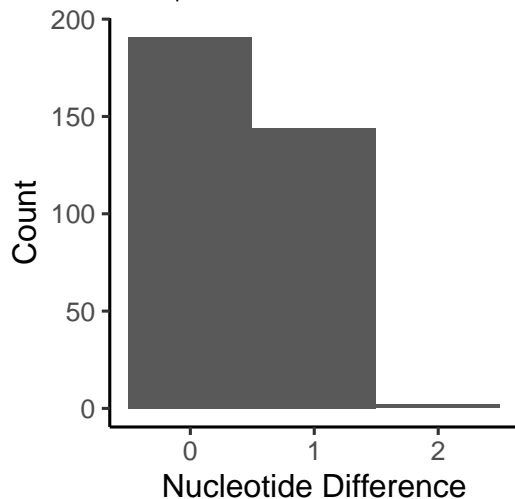
241 sequences assigned  
237 (98.3%) exact matches, in which:  
232 unique CDR3  
13 unique J





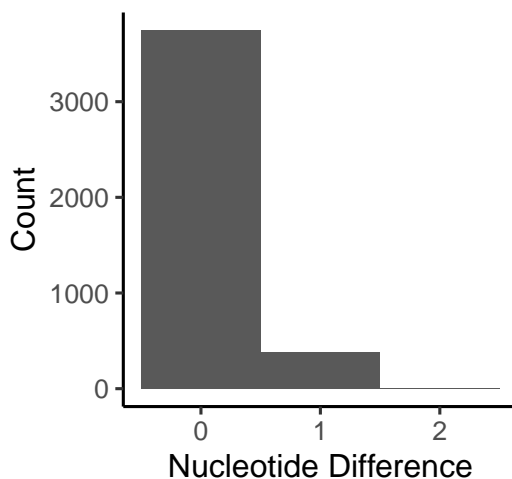
### TRBV6–9\*ap01

337 sequences assigned  
191 (56.7%) exact matches, in which:  
183 unique CDR3  
13 unique J



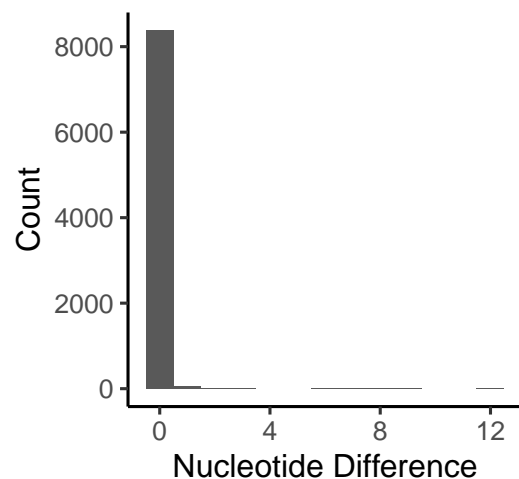
### TRBV6–56\*ap02

4133 sequences assigned  
3745 (90.6%) exact matches, in which:  
3680 unique CDR3  
13 unique J



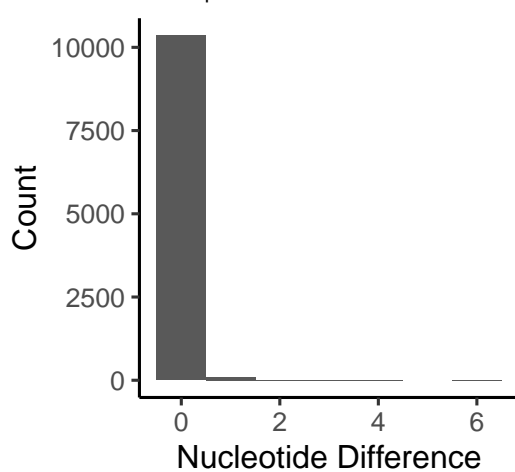
### TRBV7–3\*ap01

8448 sequences assigned  
8380 (99.2%) exact matches, in which:  
8308 unique CDR3  
13 unique J



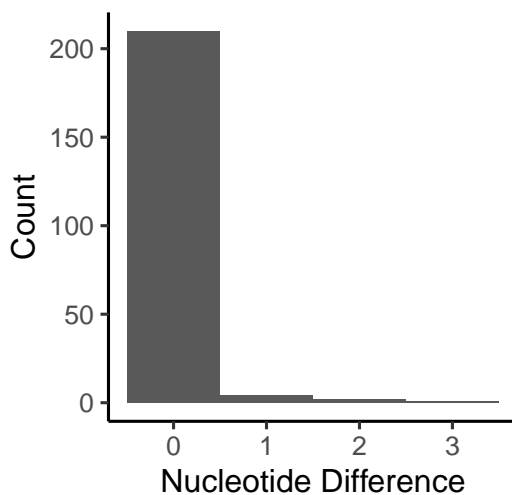
### TRBV6–23\*ap01

10457 sequences assigned  
10357 (99%) exact matches, in which:  
10116 unique CDR3  
13 unique J



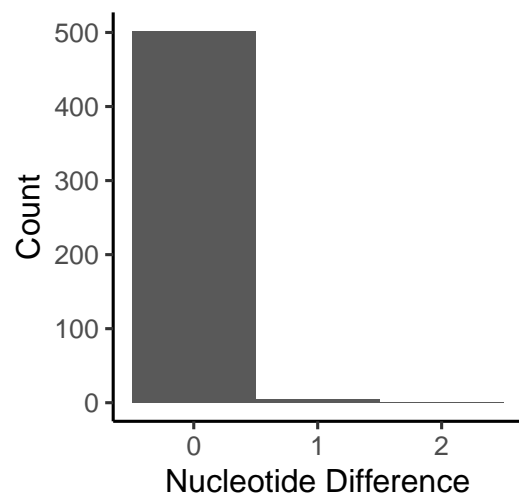
### TRBV7–1\*ap01\_G291C\_

217 sequences assigned  
210 (96.8%) exact matches, in which:  
209 unique CDR3  
13 unique J



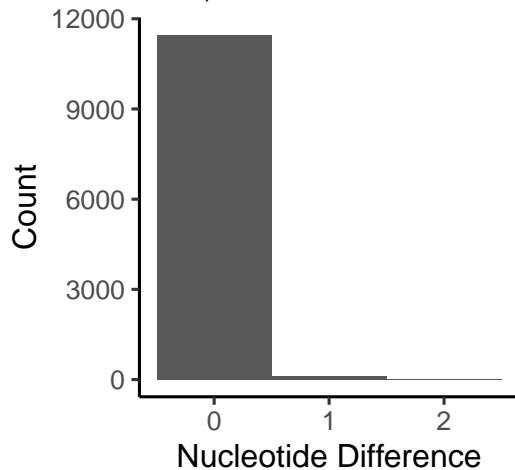
### TRBV7–4\*ap01

508 sequences assigned  
502 (98.8%) exact matches, in which:  
494 unique CDR3  
13 unique J



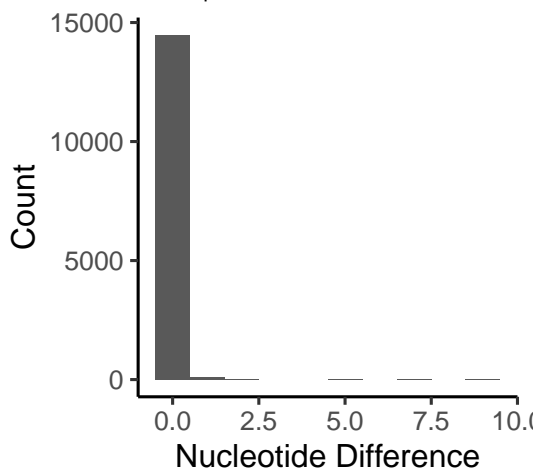
### TRBV6–56\*ap01

11591 sequences assigned  
11467 (98.9%) exact matches, in which:  
11260 unique CDR3  
13 unique J



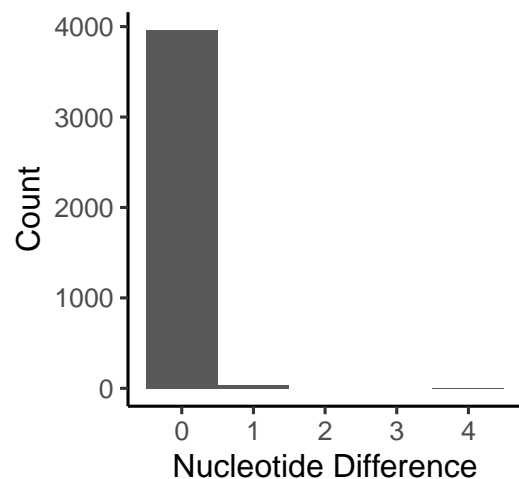
### TRBV7–2\*ap01

14586 sequences assigned  
14485 (99.3%) exact matches, in which:  
14304 unique CDR3  
13 unique J



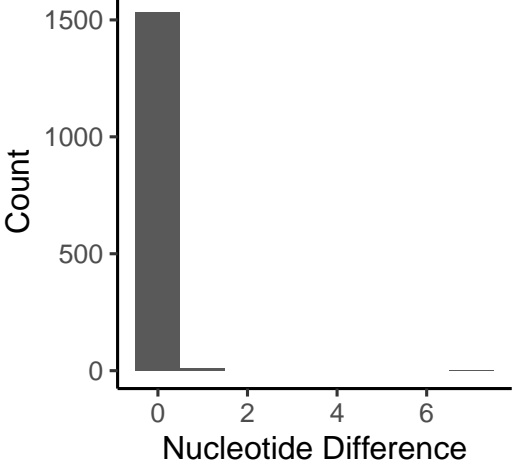
### TRBV7–6\*ap01

3997 sequences assigned  
3962 (99.1%) exact matches, in which:  
3887 unique CDR3  
13 unique J



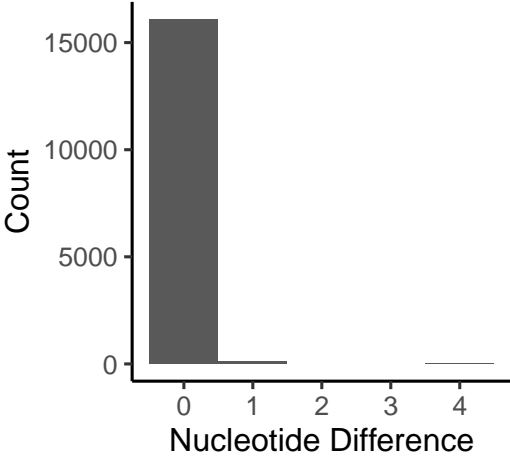
TRBV7-7\*ap01

1543 sequences assigned  
1532 (99.3%) exact matches, in which:  
1503 unique CDR3  
13 unique J



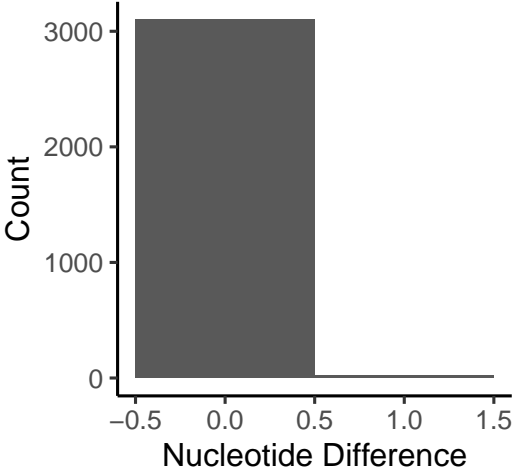
TRBV7-9\*ap01

16225 sequences assigned  
16095 (99.2%) exact matches, in which:  
15877 unique CDR3  
13 unique J



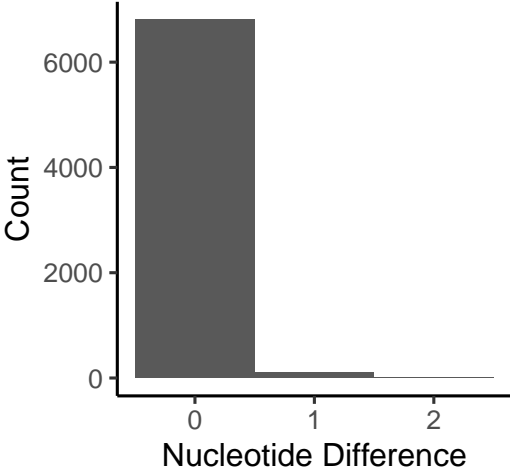
TRBV7-8\*ap01

3120 sequences assigned  
3100 (99.4%) exact matches, in which:  
3046 unique CDR3  
13 unique J



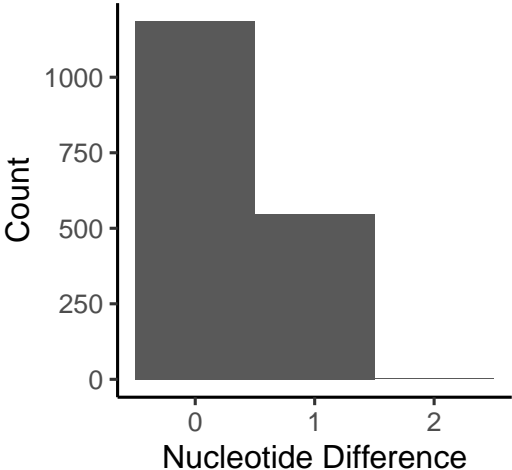
TRBV29-1\*ap01

6902 sequences assigned  
6806 (98.6%) exact matches, in which:  
6653 unique CDR3  
13 unique J



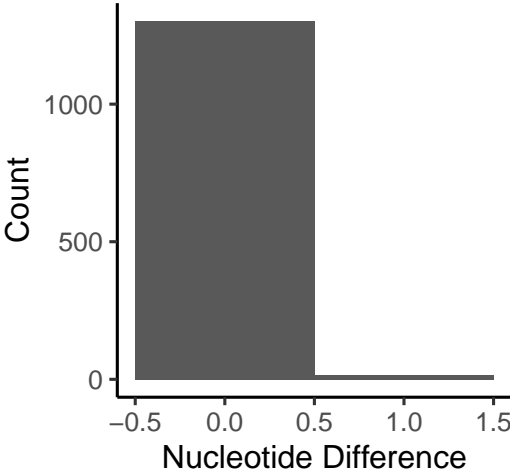
TRBV7-8\*ap03

1736 sequences assigned  
1186 (68.3%) exact matches, in which:  
1165 unique CDR3  
13 unique J

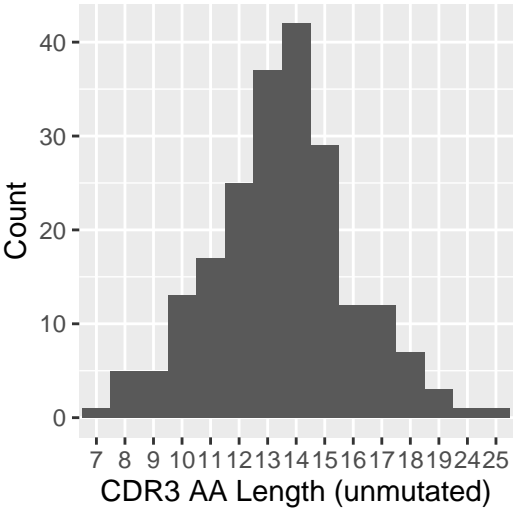


TRBV29-1\*ap02

1317 sequences assigned  
1302 (98.9%) exact matches, in which:  
1273 unique CDR3  
13 unique J



TRBV7-1\*ap01\_G291C\_T296C





[illegible]