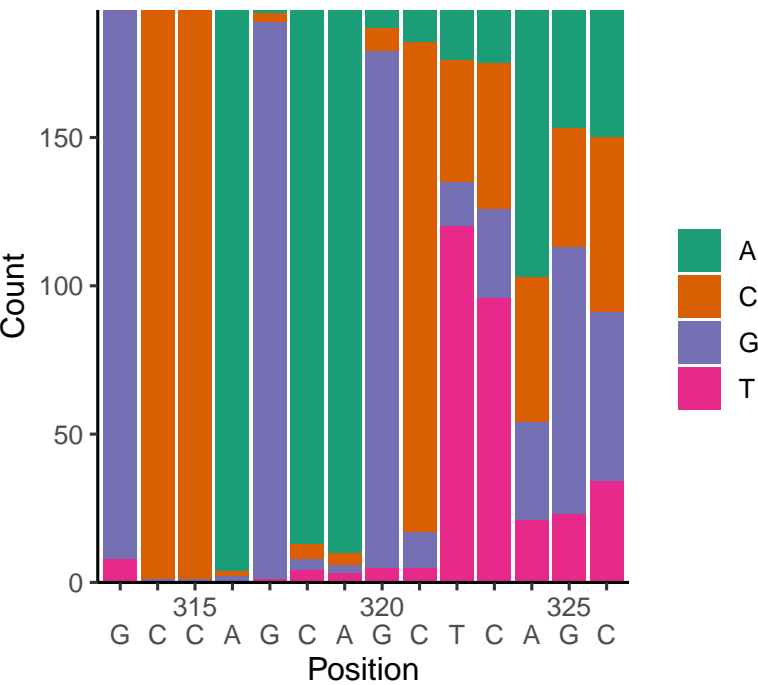
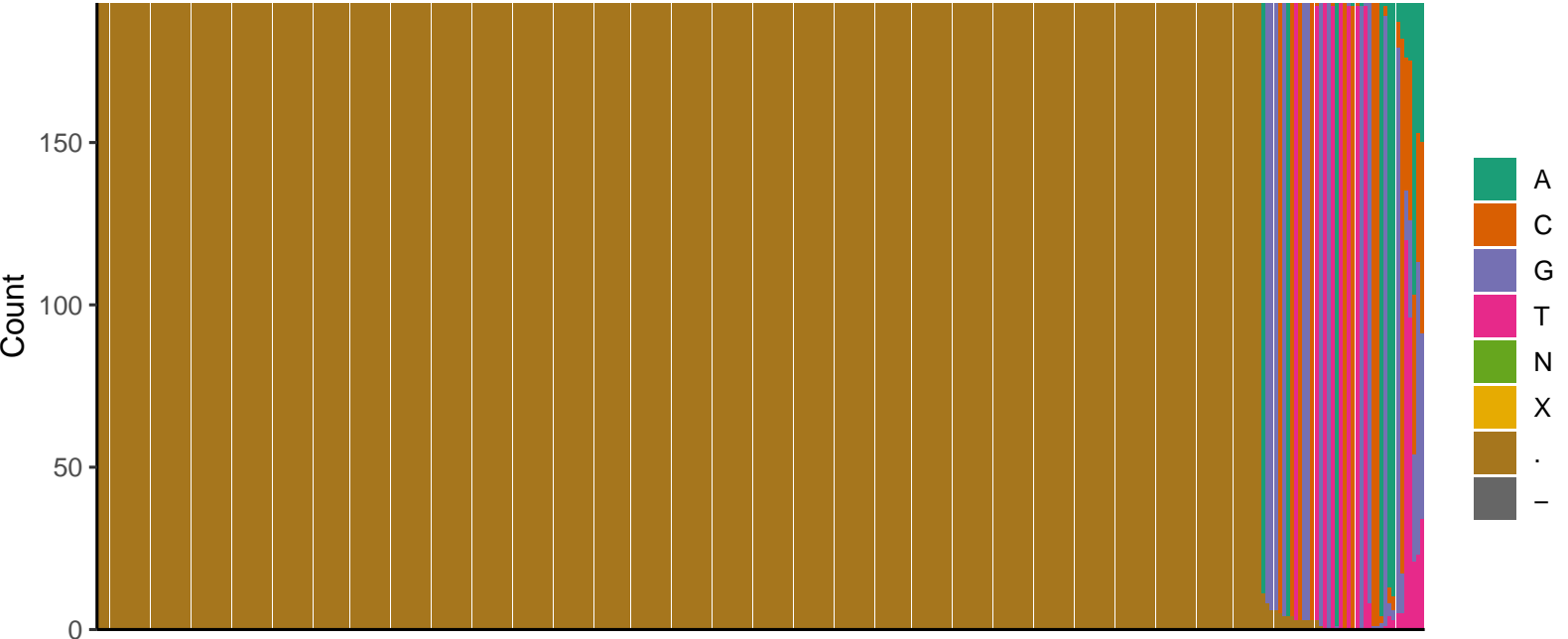


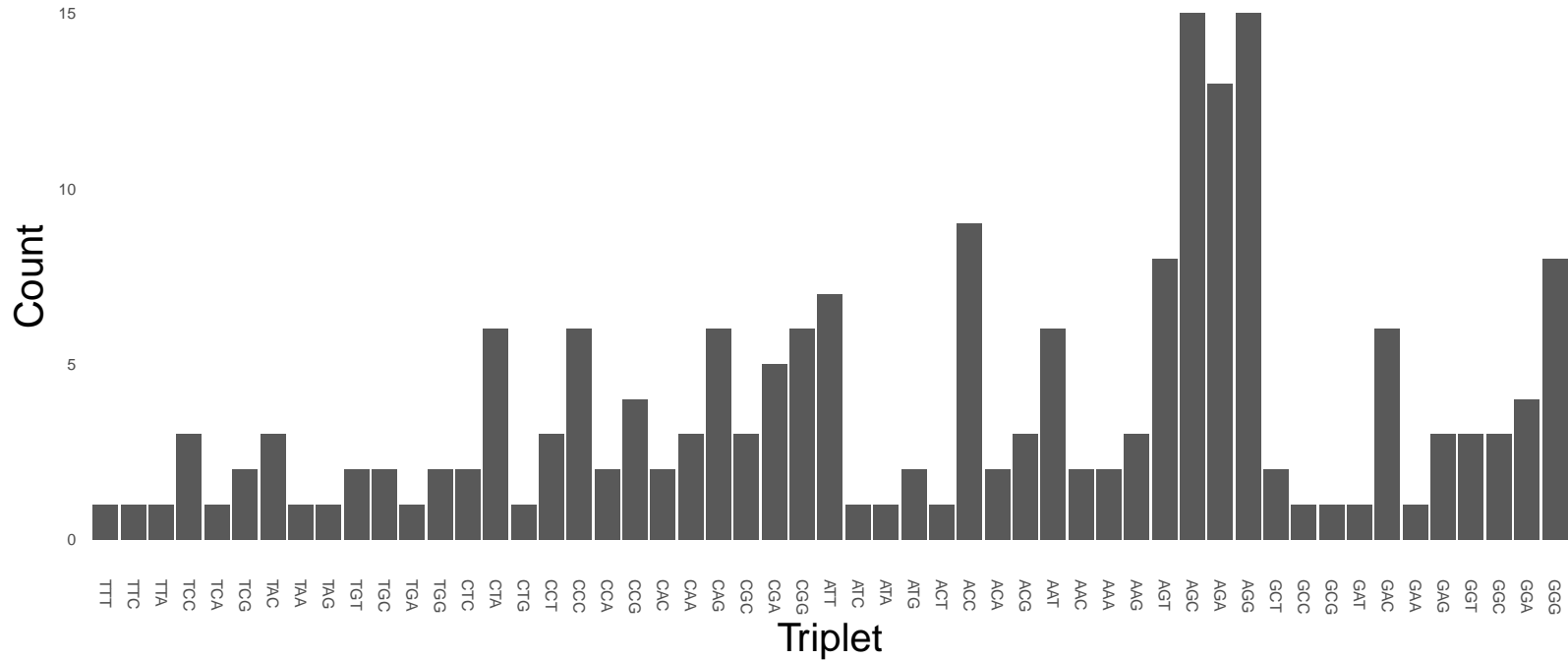
Gene TRBV7-1\*ap01\_G291C\_T296C



Gene TRBV7-1\*ap01\_G291C\_T296C

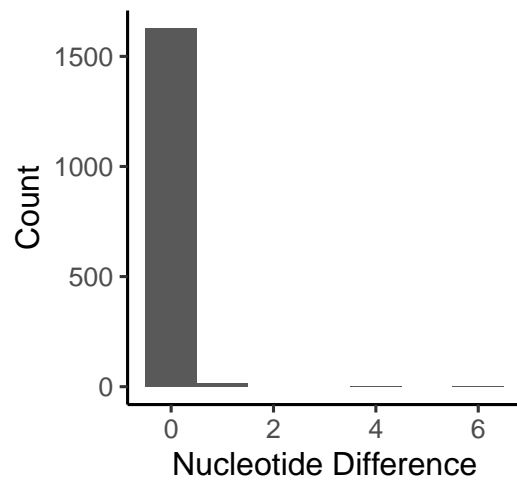


TRBV7-1\*ap01\_G291C\_T296C- Final 3 nucleotides as a triplet



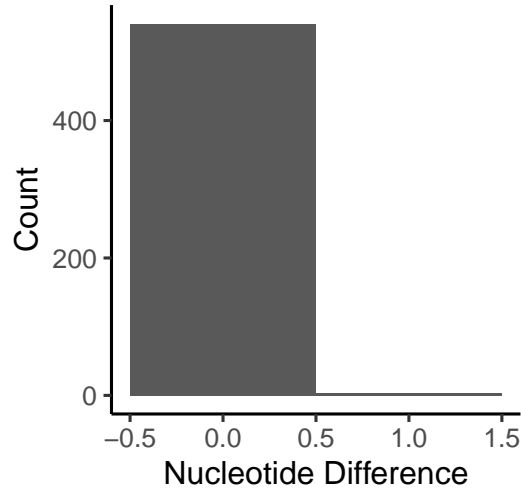
### TRBV10-1\*ap01

1649 sequences assigned  
1627 (98.7%) exact matches, in which:  
1583 unique CDR3  
13 unique J



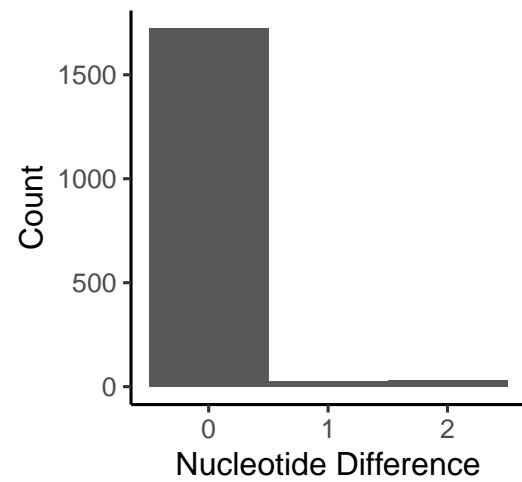
### TRBV10-2\*ap01

545 sequences assigned  
541 (99.3%) exact matches, in which:  
520 unique CDR3  
13 unique J



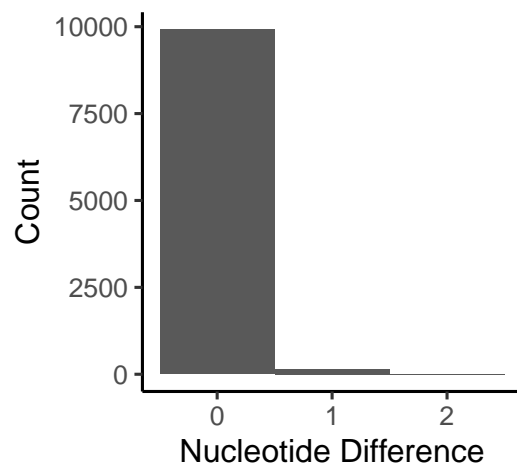
### TRBV13\*ap01

1782 sequences assigned  
1723 (96.7%) exact matches, in which:  
1682 unique CDR3  
13 unique J



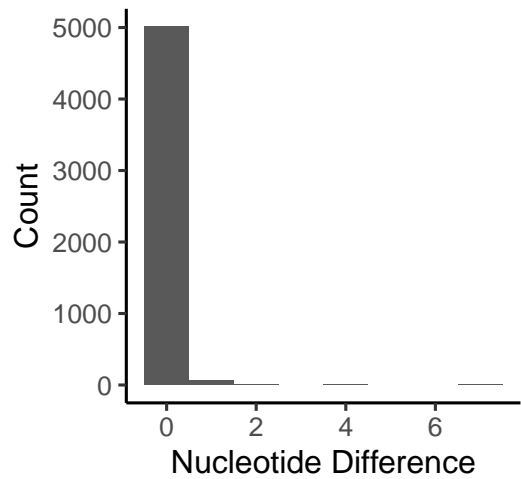
### TRBV20-1\*ap01

10067 sequences assigned  
9920 (98.5%) exact matches, in which:  
9708 unique CDR3  
13 unique J



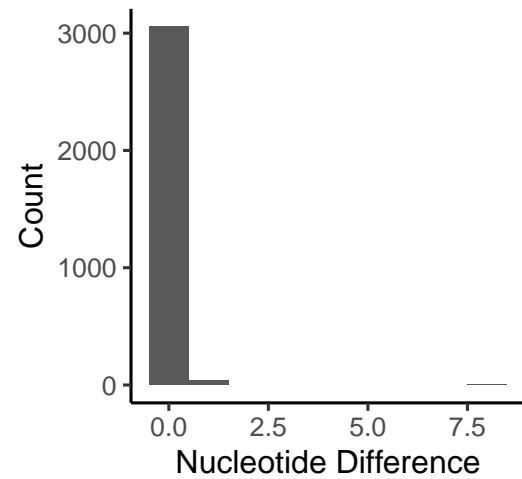
### TRBV10-3\*ap01

5078 sequences assigned  
5011 (98.7%) exact matches, in which:  
4893 unique CDR3  
13 unique J



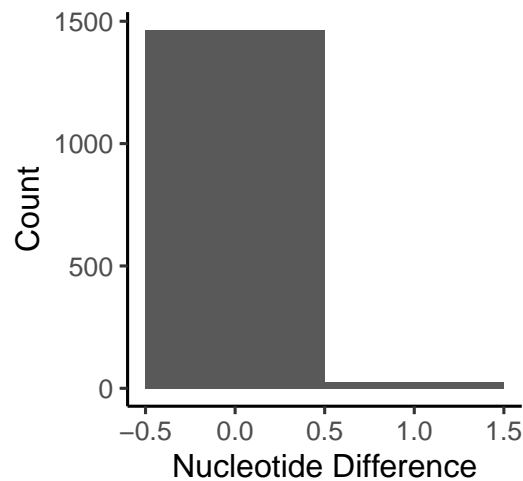
### TRBV14\*ap01

3095 sequences assigned  
3055 (98.7%) exact matches, in which:  
2989 unique CDR3  
13 unique J



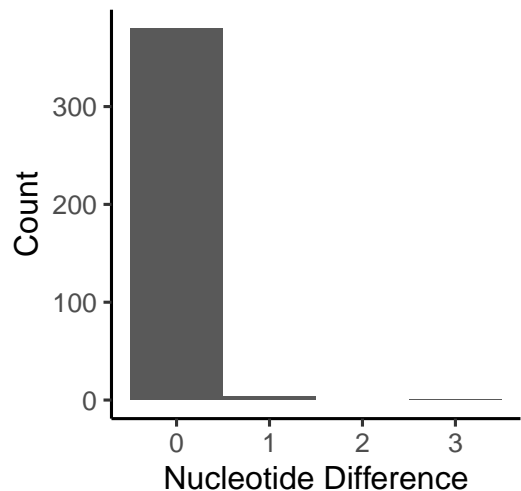
### TRBV20-1\*ap02

1490 sequences assigned  
1464 (98.3%) exact matches, in which:  
1427 unique CDR3  
13 unique J



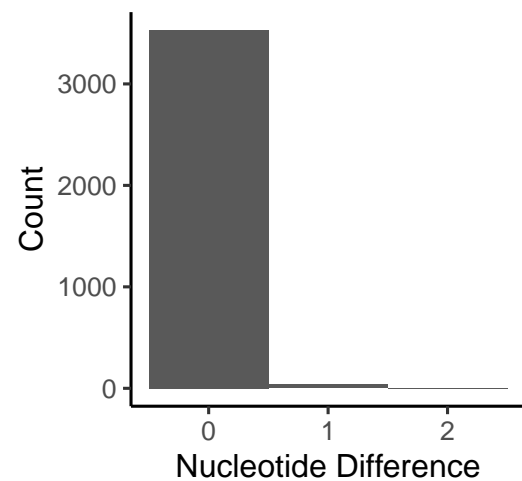
### TRBV1\*ap01

385 sequences assigned  
380 (98.7%) exact matches, in which:  
371 unique CDR3  
13 unique J



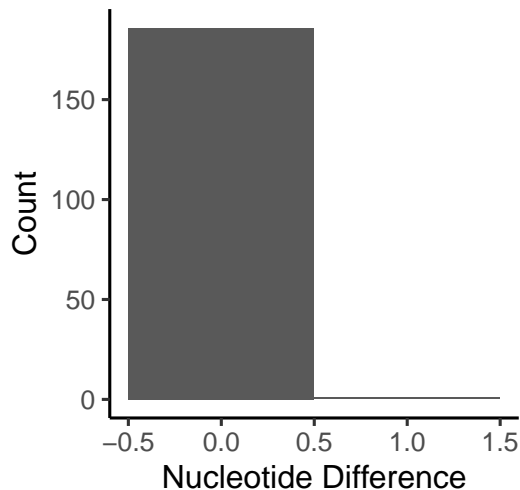
### TRBV15\*ap02

3569 sequences assigned  
3531 (98.9%) exact matches, in which:  
3442 unique CDR3  
13 unique J



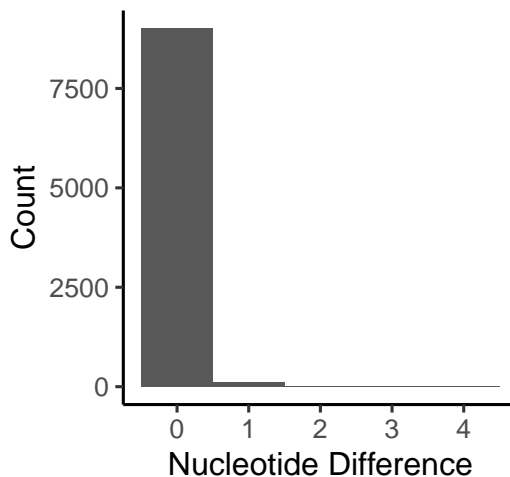
### TRBV16\*ap01

187 sequences assigned  
186 (99.5%) exact matches, in which:  
181 unique CDR3  
13 unique J



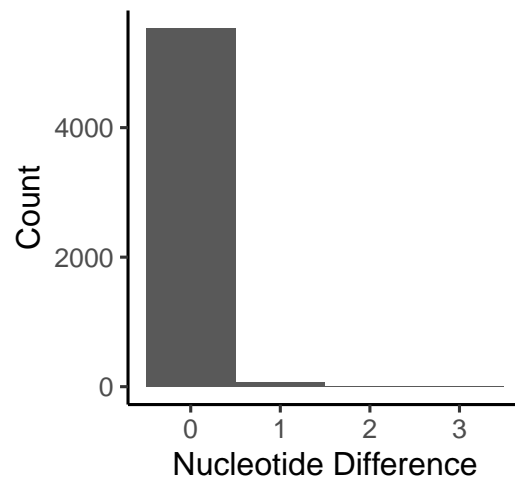
### TRBV2\*ap01

9130 sequences assigned  
9010 (98.7%) exact matches, in which:  
8816 unique CDR3  
13 unique J



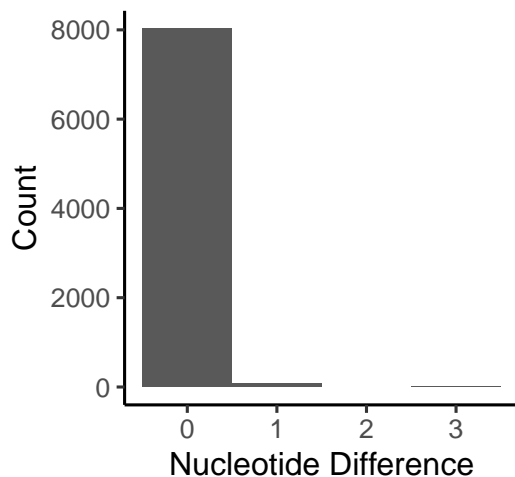
### TRBV30\*ap01

5616 sequences assigned  
5532 (98.5%) exact matches, in which:  
5459 unique CDR3  
13 unique J



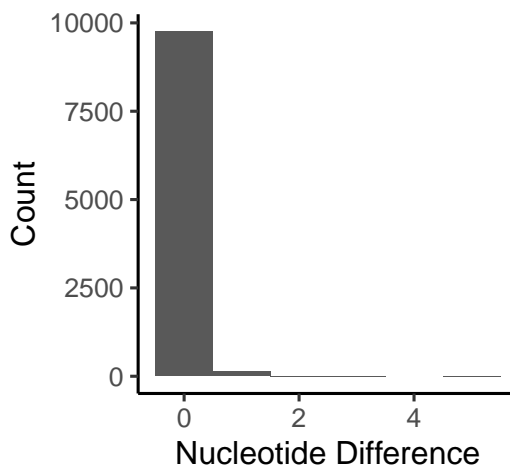
### TRBV18\*ap01

8094 sequences assigned  
8025 (99.1%) exact matches, in which:  
7874 unique CDR3  
13 unique J



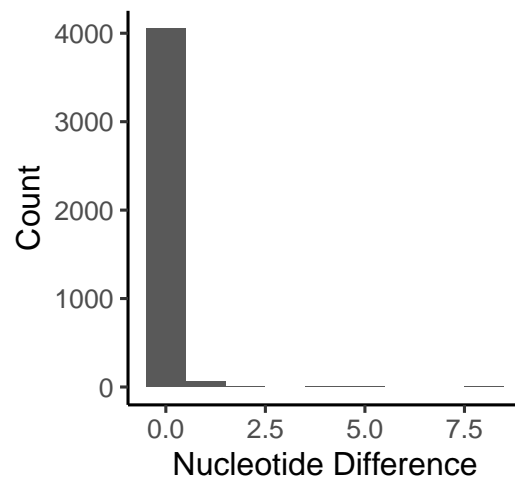
### TRBV27\*ap01

9892 sequences assigned  
9757 (98.6%) exact matches, in which:  
9488 unique CDR3  
13 unique J



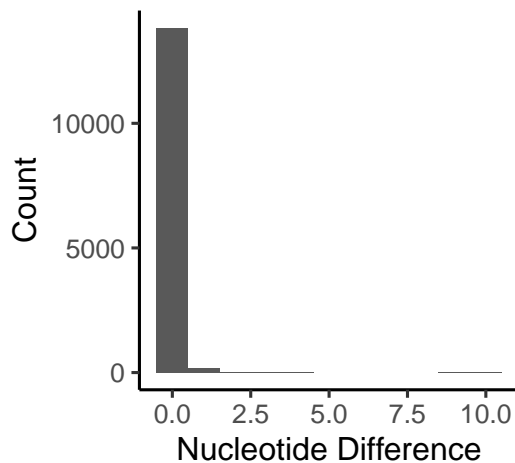
### TRBV30\*ap02

4121 sequences assigned  
4051 (98.3%) exact matches, in which:  
3993 unique CDR3  
13 unique J



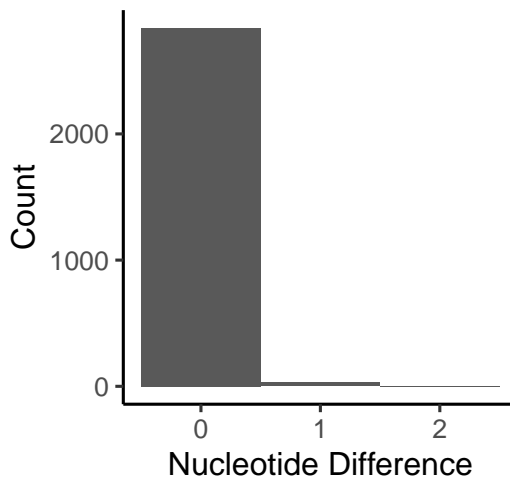
### TRBV19\*ap01

14014 sequences assigned  
13832 (98.7%) exact matches, in which:  
13632 unique CDR3  
13 unique J



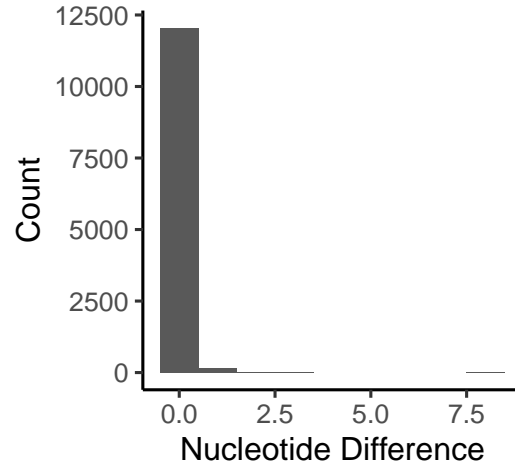
### TRBV28\*ap01

2870 sequences assigned  
2839 (98.9%) exact matches, in which:  
2770 unique CDR3  
13 unique J



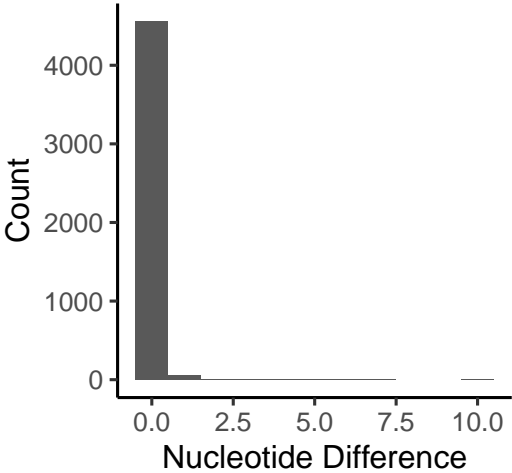
### TRBV9\*ap01

12196 sequences assigned  
12052 (98.8%) exact matches, in which:  
11767 unique CDR3  
13 unique J



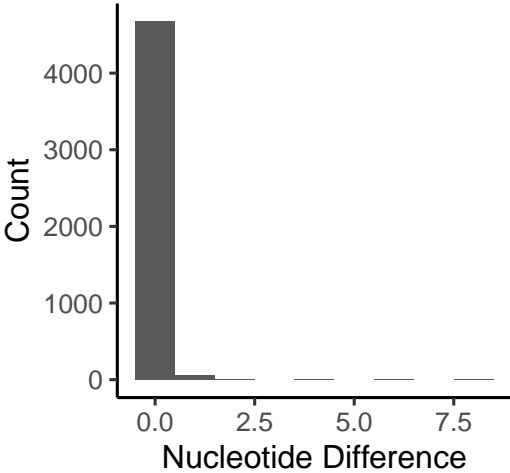
TRBV21-1\*ap01

4631 sequences assigned  
4558 (98.4%) exact matches, in which:  
4464 unique CDR3  
13 unique J



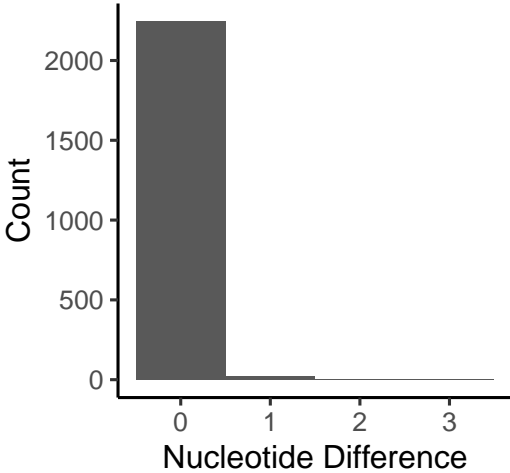
TRBV11-3\*ap01

4742 sequences assigned  
4675 (98.6%) exact matches, in which:  
4574 unique CDR3  
13 unique J



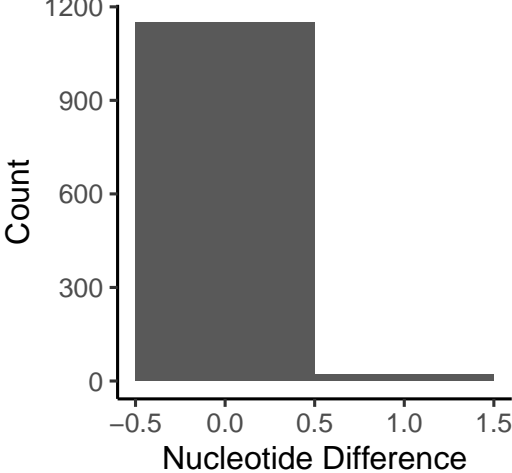
TRBV12-5\*ap01

2272 sequences assigned  
2245 (98.8%) exact matches, in which:  
2187 unique CDR3  
13 unique J



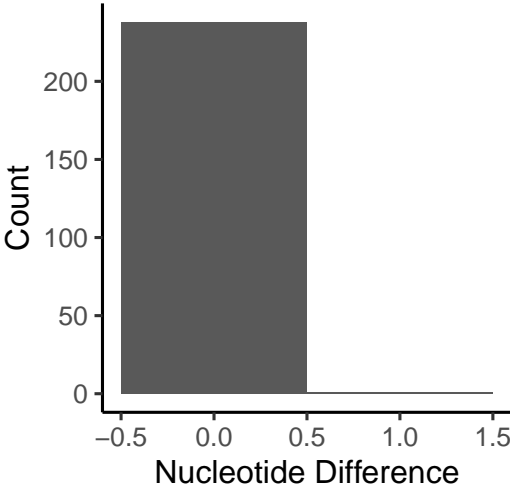
TRBV11-1\*ap01

1171 sequences assigned  
1149 (98.1%) exact matches, in which:  
1118 unique CDR3  
13 unique J



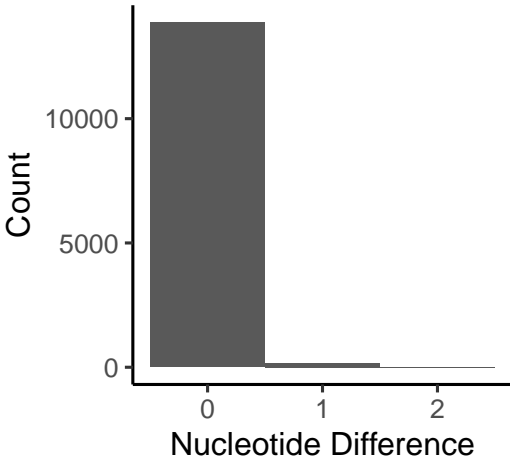
TRBV12-1\*ap01

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



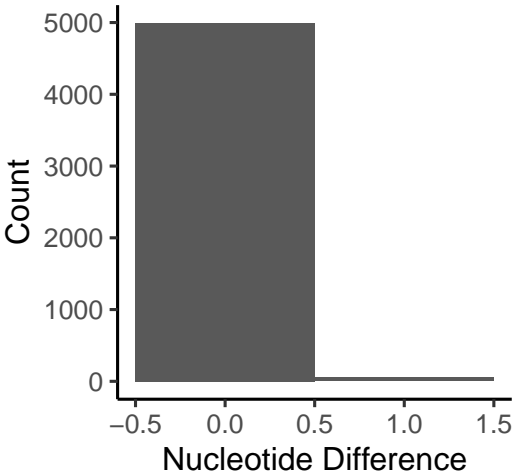
TRBV12-34\*ap01

14040 sequences assigned  
13870 (98.8%) exact matches, in which:  
13574 unique CDR3  
13 unique J



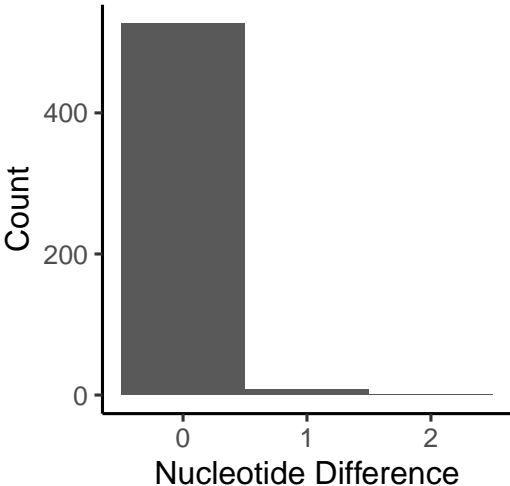
TRBV11-2\*ap01

5045 sequences assigned  
4993 (99%) exact matches, in which:  
4858 unique CDR3  
13 unique J



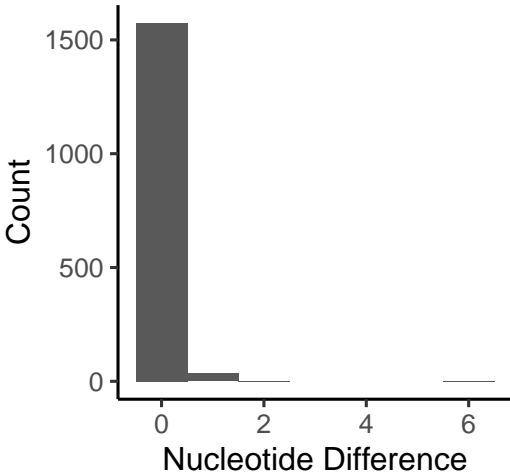
TRBV12-2\*ap01

536 sequences assigned  
527 (98.3%) exact matches, in which:  
516 unique CDR3  
13 unique J



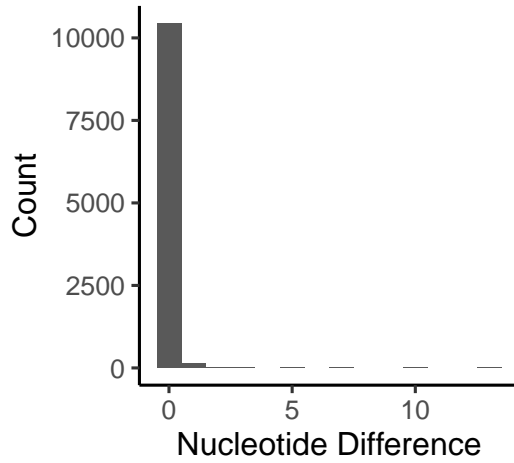
TRBV23-1\*ap01

1610 sequences assigned  
1574 (97.8%) exact matches, in which:  
1547 unique CDR3  
13 unique J



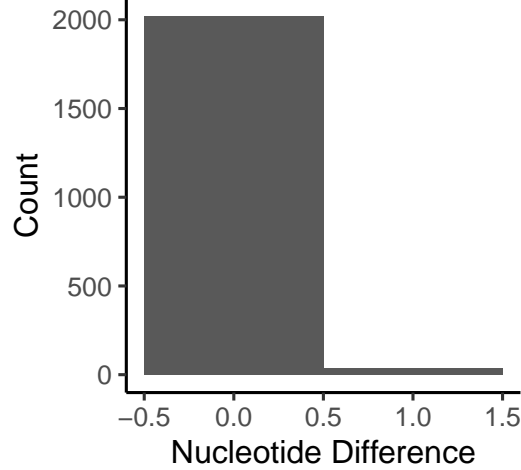
### TRBV3-12\*ap01

10583 sequences assigned  
10447 (98.7%) exact matches, in which:  
10233 unique CDR3  
13 unique J



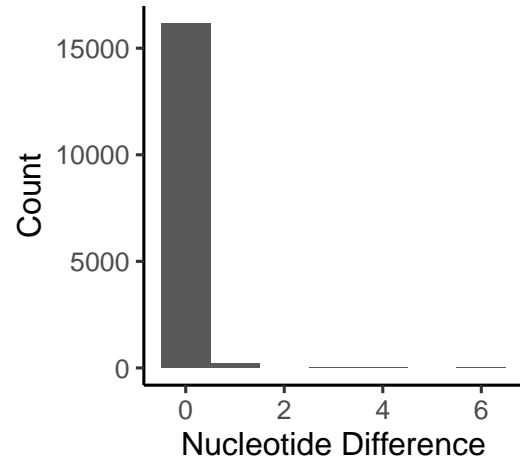
### TRBV4-2\*ap01

2053 sequences assigned  
2019 (98.3%) exact matches, in which:  
1969 unique CDR3  
13 unique J



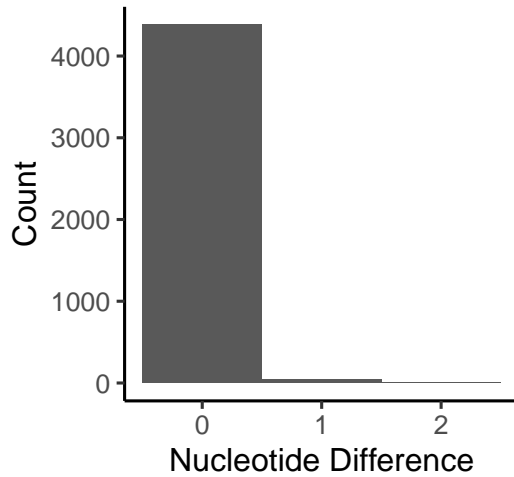
### TRBV5-1\*ap01

16373 sequences assigned  
16175 (98.8%) exact matches, in which:  
15758 unique CDR3  
13 unique J



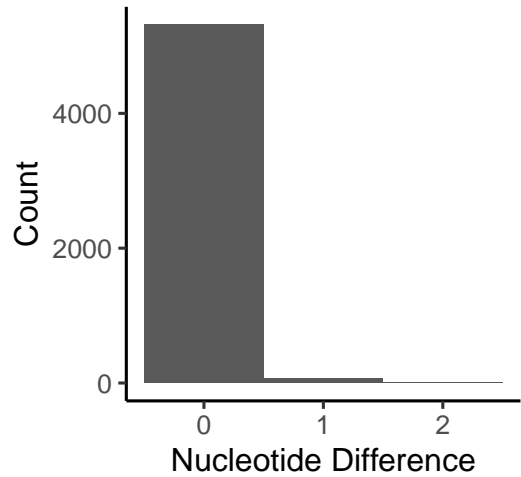
### TRBV4-1\*ap01

4423 sequences assigned  
4383 (99.1%) exact matches, in which:  
4294 unique CDR3  
13 unique J



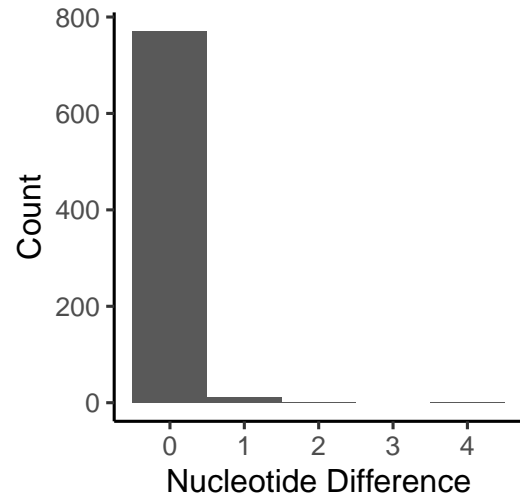
### TRBV4-3\*ap01

5377 sequences assigned  
5315 (98.8%) exact matches, in which:  
5195 unique CDR3  
13 unique J



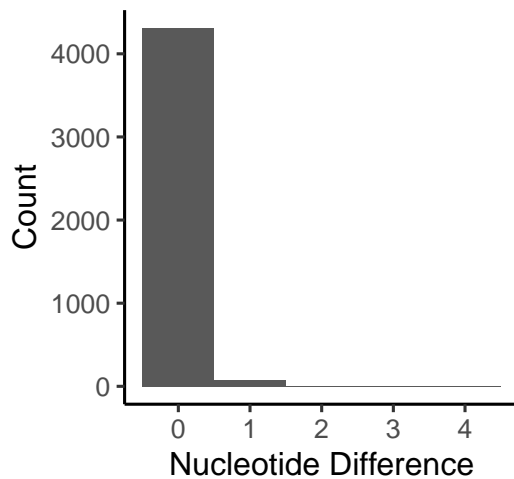
### TRBV5-3\*ap01

786 sequences assigned  
771 (98.1%) exact matches, in which:  
763 unique CDR3  
13 unique J



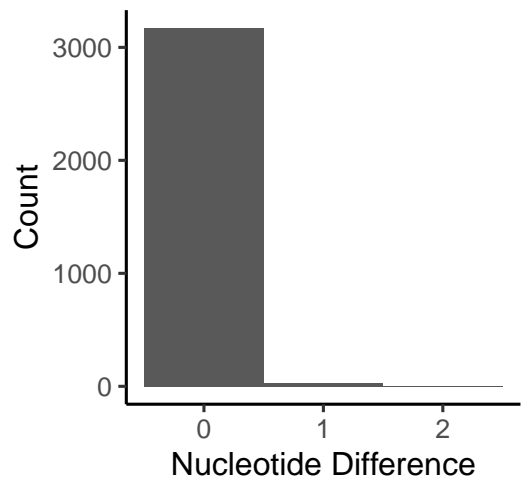
### TRBV24-1\*ap01

4394 sequences assigned  
4310 (98.1%) exact matches, in which:  
4214 unique CDR3  
13 unique J



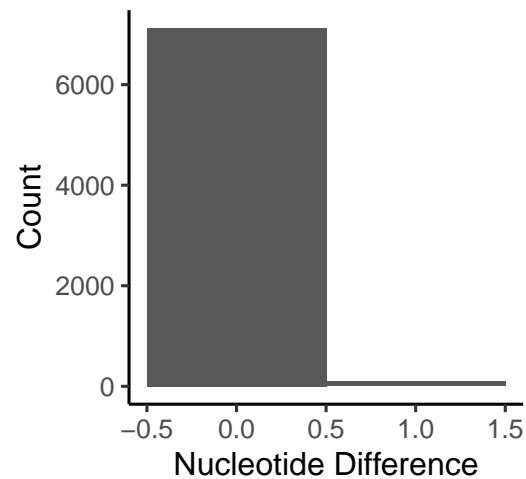
### TRBV25-1\*ap01

3203 sequences assigned  
3171 (99%) exact matches, in which:  
3115 unique CDR3  
13 unique J



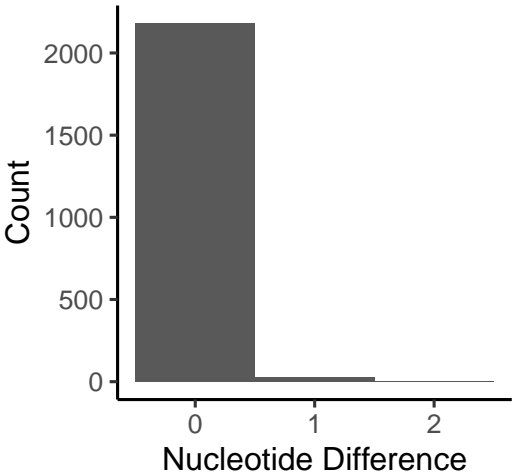
### TRBV5-4\*ap01

7224 sequences assigned  
7126 (98.6%) exact matches, in which:  
6980 unique CDR3  
13 unique J



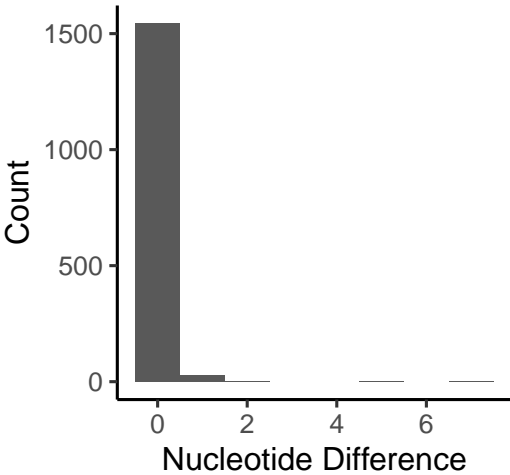
TRBV5-5\*ap01

2210 sequences assigned  
2180 (98.6%) exact matches, in which:  
2150 unique CDR3  
13 unique J



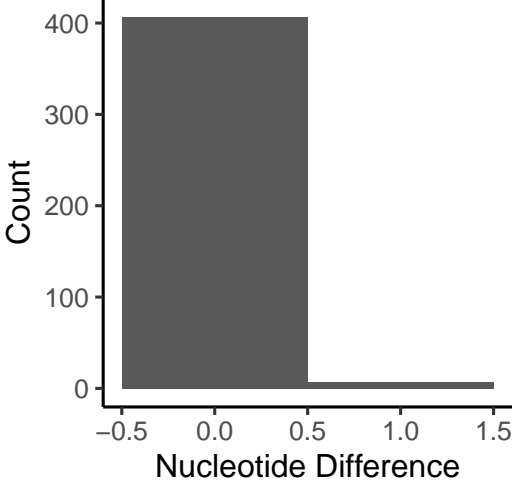
TRBV5-8\*ap01

1576 sequences assigned  
1544 (98%) exact matches, in which:  
1510 unique CDR3  
13 unique J



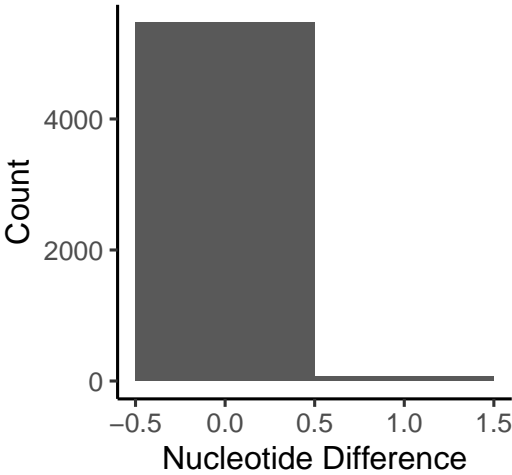
TRBV6-7\*ap01

414 sequences assigned  
407 (98.3%) exact matches, in which:  
394 unique CDR3  
13 unique J



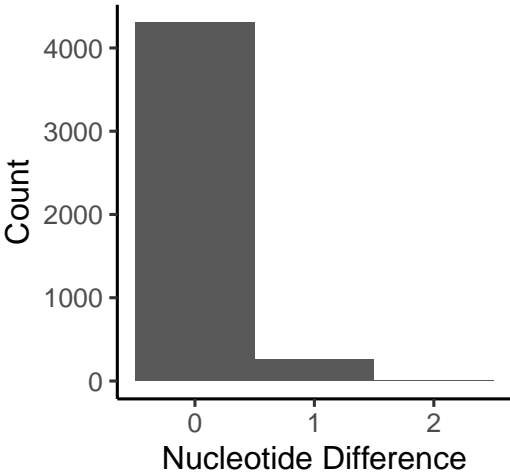
TRBV5-6\*ap01

5543 sequences assigned  
5469 (98.7%) exact matches, in which:  
5353 unique CDR3  
13 unique J



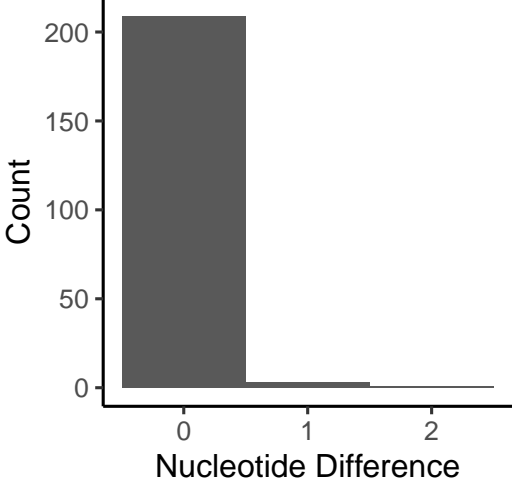
TRBV6-1\*ap01

4562 sequences assigned  
4303 (94.3%) exact matches, in which:  
4200 unique CDR3  
13 unique J



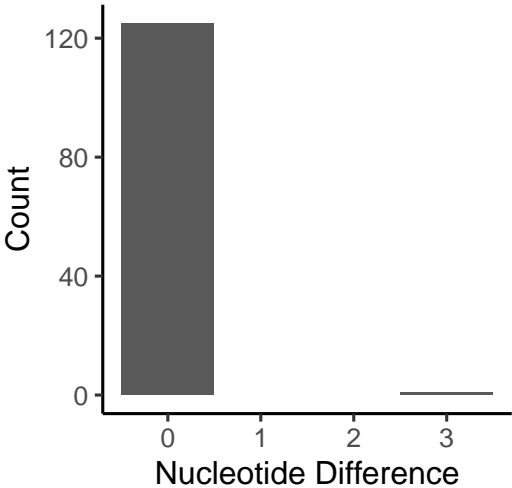
TRBV6-8\*ap01

213 sequences assigned  
209 (98.1%) exact matches, in which:  
203 unique CDR3  
13 unique J



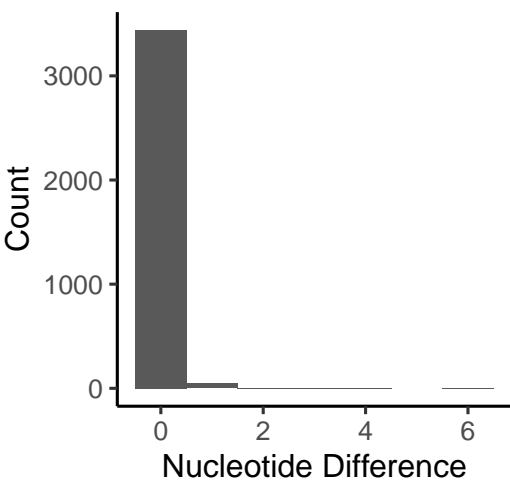
TRBV5-7\*ap01

126 sequences assigned  
125 (99.2%) exact matches, in which:  
124 unique CDR3  
13 unique J



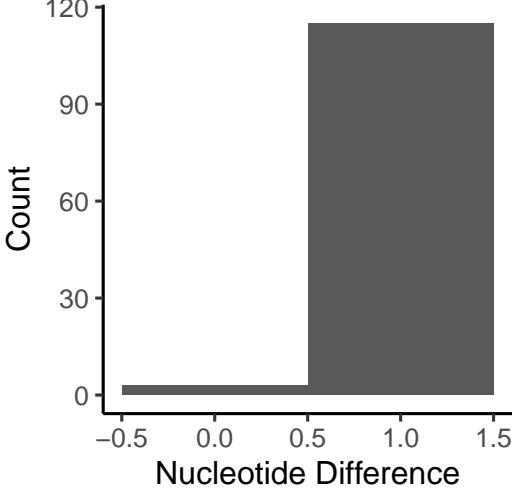
TRBV6-4\*ap01

3497 sequences assigned  
3440 (98.4%) exact matches, in which:  
3381 unique CDR3  
13 unique J



TRBV6-9\*ap01

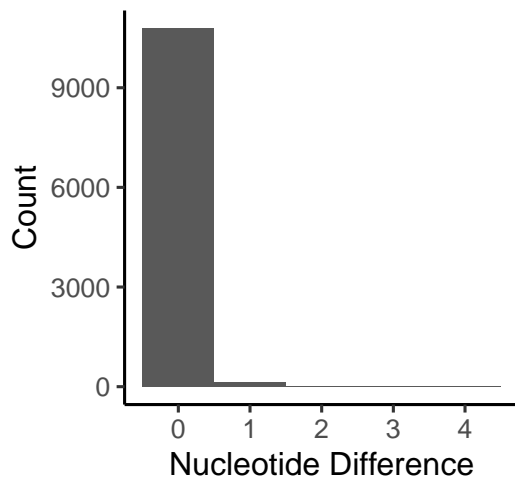
118 sequences assigned  
3 (2.5%) exact matches, in which:  
3 unique CDR3  
2 unique J





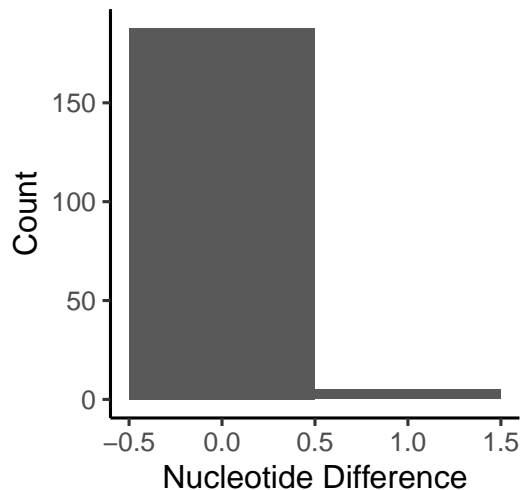
### TRBV6-23\*ap01

10921 sequences assigned  
10786 (98.8%) exact matches, in which:  
10552 unique CDR3  
13 unique J



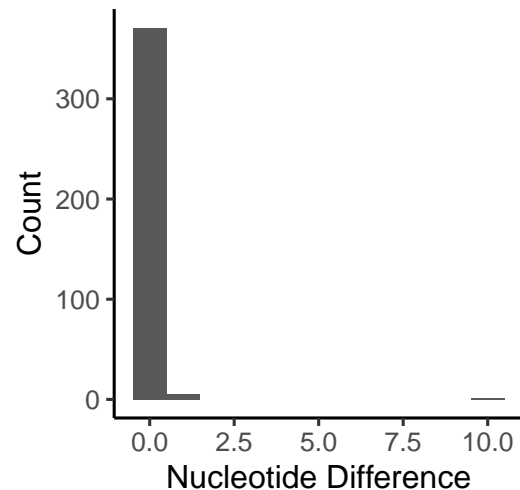
### TRBV7-1\*ap01\_G291C\_

193 sequences assigned  
188 (97.4%) exact matches, in which:  
183 unique CDR3  
13 unique J



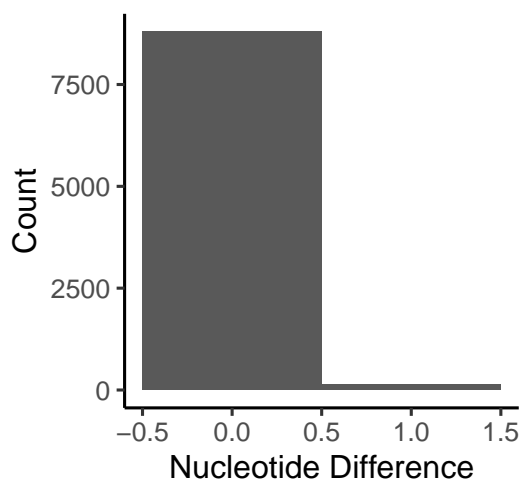
### TRBV7-4\*ap01

377 sequences assigned  
371 (98.4%) exact matches, in which:  
364 unique CDR3  
13 unique J



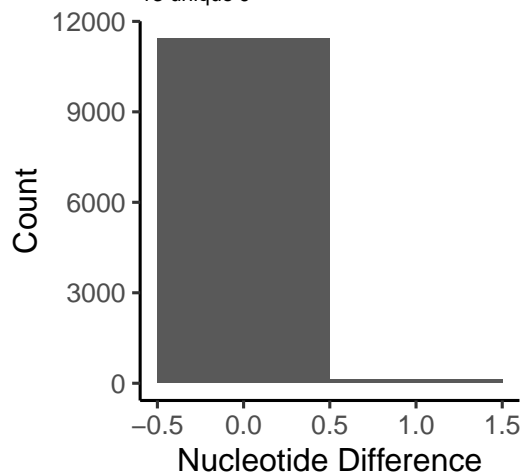
### TRBV6-56\*ap01

8922 sequences assigned  
8796 (98.6%) exact matches, in which:  
8561 unique CDR3  
13 unique J



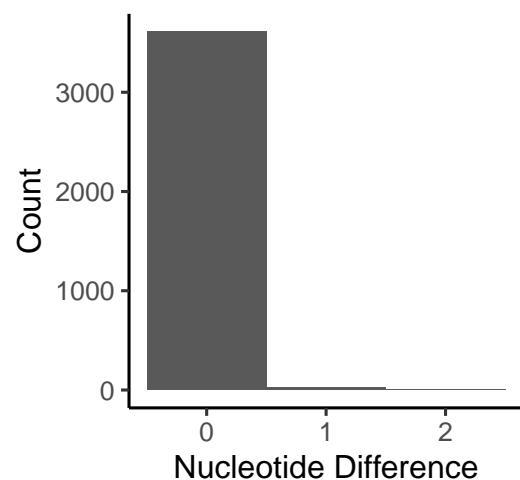
### TRBV7-2\*ap01

11557 sequences assigned  
11433 (98.9%) exact matches, in which:  
11135 unique CDR3  
13 unique J



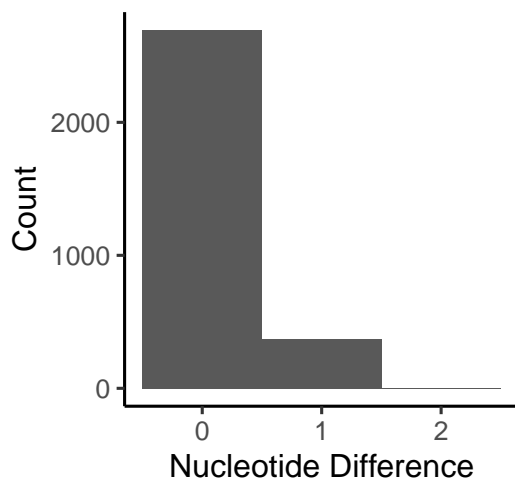
### TRBV7-6\*ap01

3641 sequences assigned  
3610 (99.1%) exact matches, in which:  
3528 unique CDR3  
13 unique J



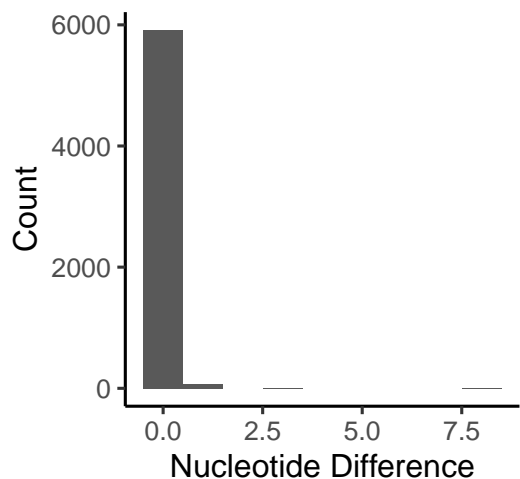
### TRBV6-56\*ap02

3070 sequences assigned  
2694 (87.8%) exact matches, in which:  
2641 unique CDR3  
13 unique J



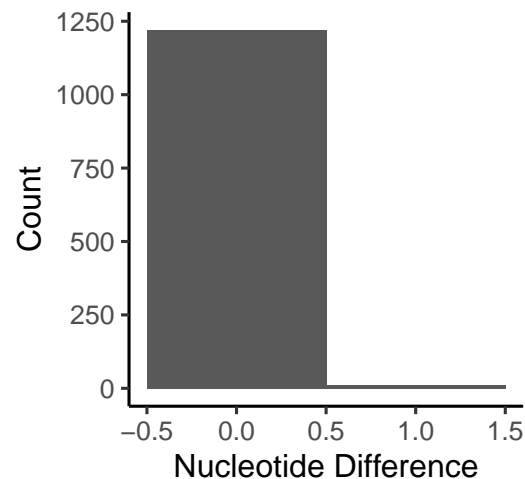
### TRBV7-3\*ap01

5985 sequences assigned  
5914 (98.8%) exact matches, in which:  
5814 unique CDR3  
13 unique J



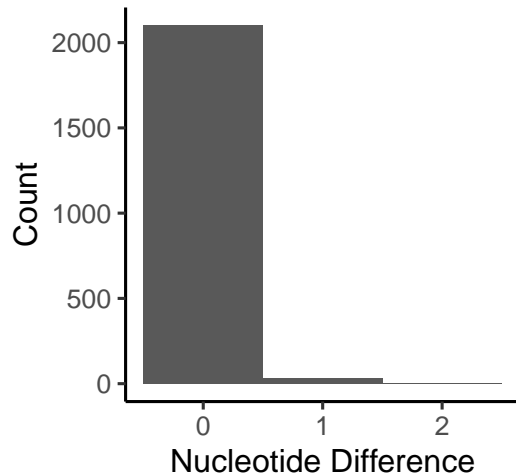
### TRBV7-7\*ap01

1231 sequences assigned  
1220 (99.1%) exact matches, in which:  
1195 unique CDR3  
13 unique J



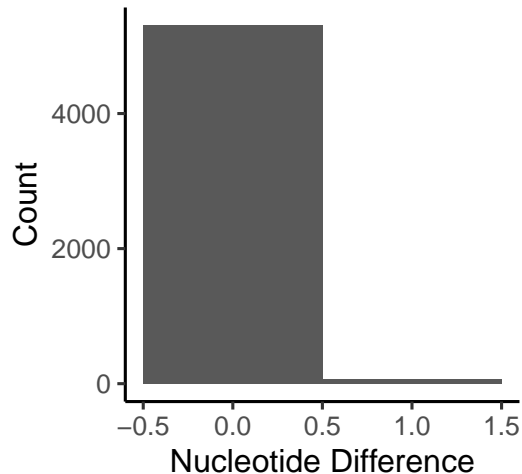
### TRBV7-8\*ap01

2133 sequences assigned  
2101 (98.5%) exact matches, in which:  
2049 unique CDR3  
13 unique J



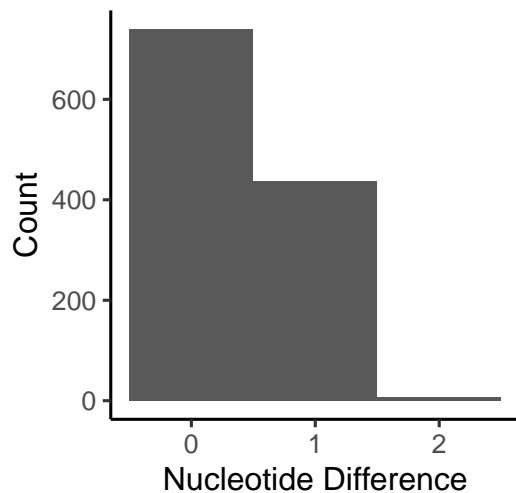
### TRBV29-1\*ap01

5376 sequences assigned  
5305 (98.7%) exact matches, in which:  
5216 unique CDR3  
13 unique J



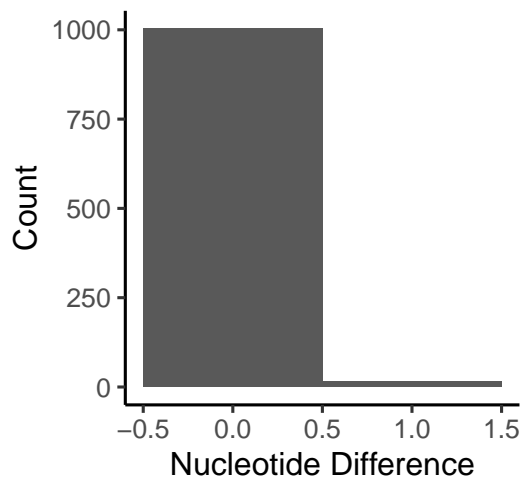
### TRBV7-8\*ap03

1184 sequences assigned  
740 (62.5%) exact matches, in which:  
716 unique CDR3  
13 unique J



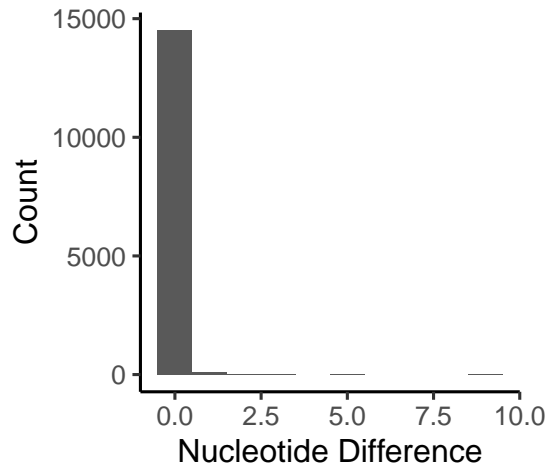
### TRBV29-1\*ap02

1017 sequences assigned  
1003 (98.6%) exact matches, in which:  
985 unique CDR3  
13 unique J



### TRBV7-9\*ap01

14658 sequences assigned  
14530 (99.1%) exact matches, in which:  
14308 unique CDR3  
13 unique J



TRBV7-1\*ap01\_G291C\_T296C

