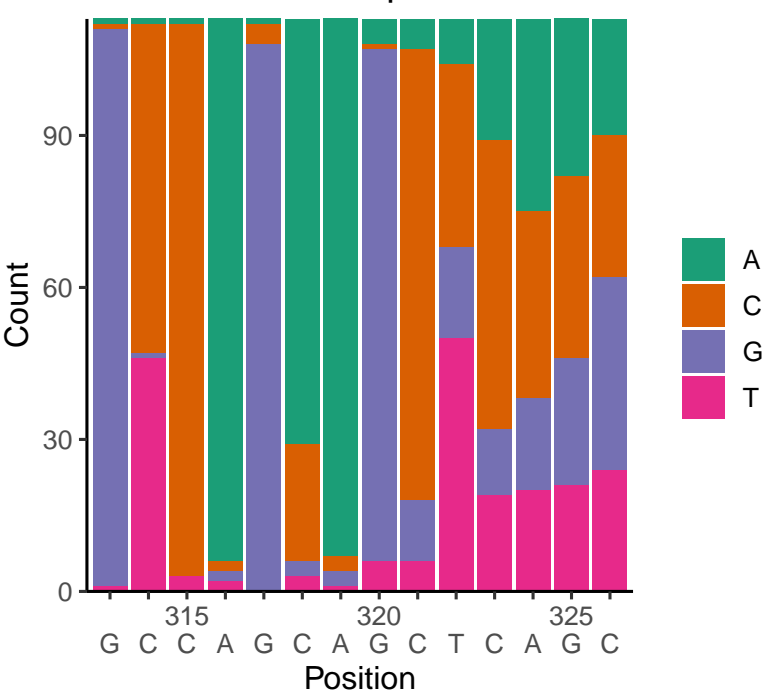
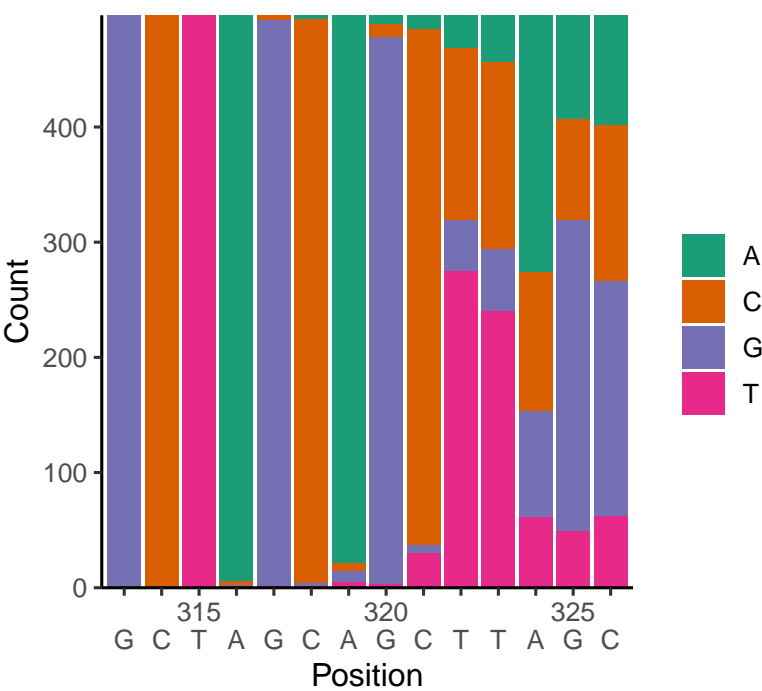


Gene TRBV7-1\*ap01\_T296C



Gene TRBV7-7\*ap01\_C315T



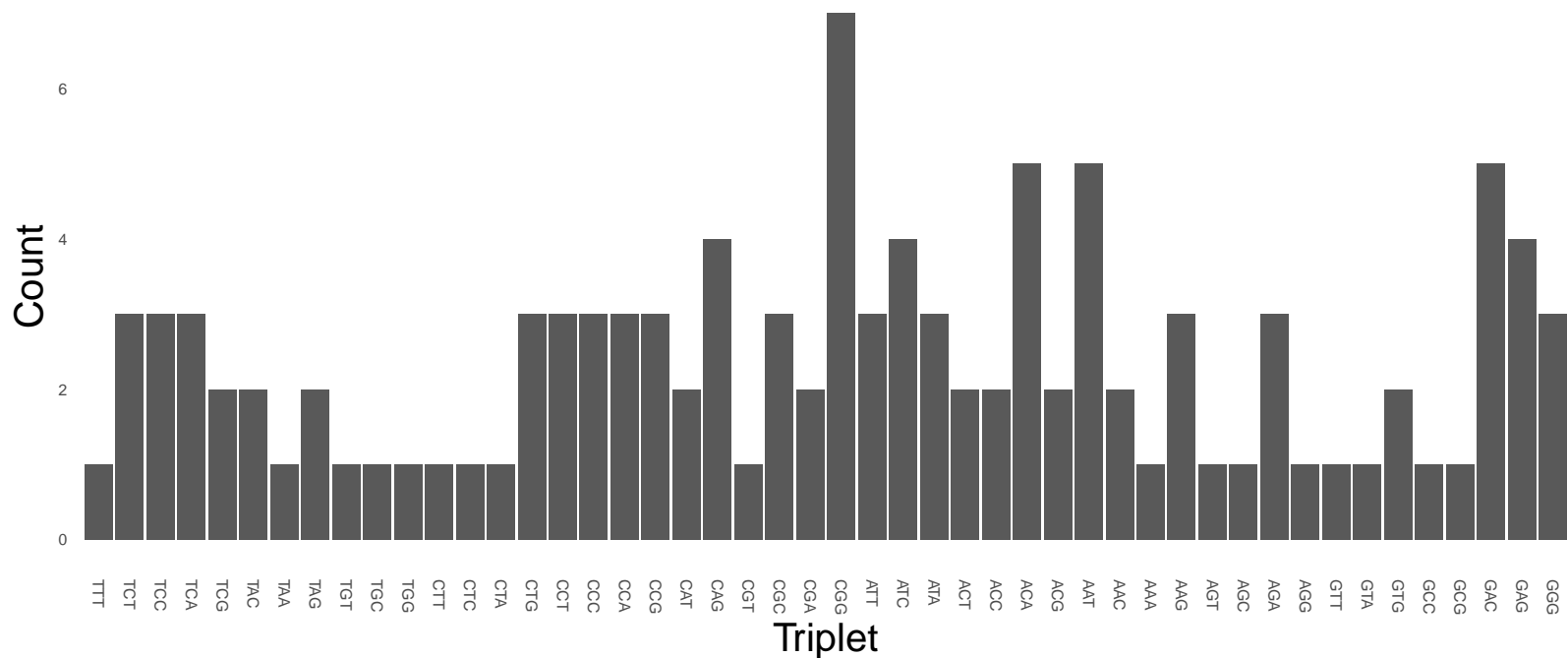
Gene TRBV7-1\*ap01\_T296C



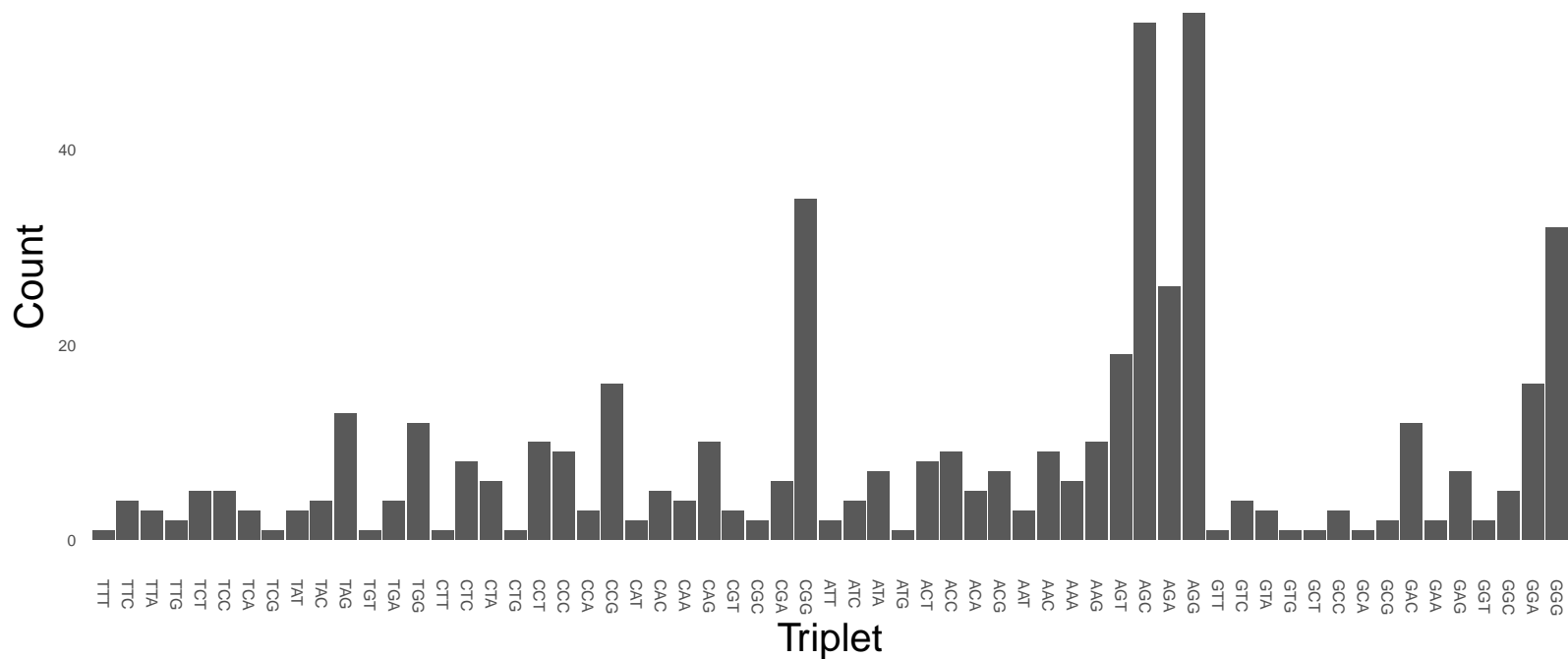
Gene TRBV7-7\*ap01\_C315T



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

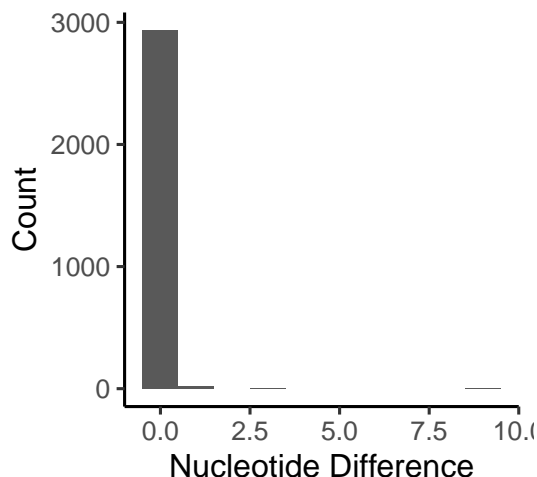


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



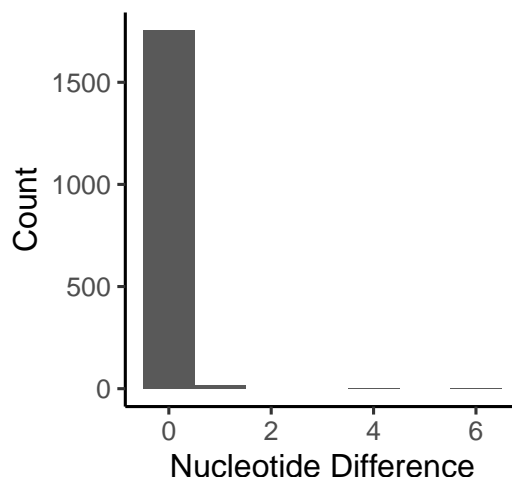
### TRBV10-1\*ap01

2961 sequences assigned  
2934 (99.1%) exact matches, in which:  
2825 unique CDR3  
13 unique J



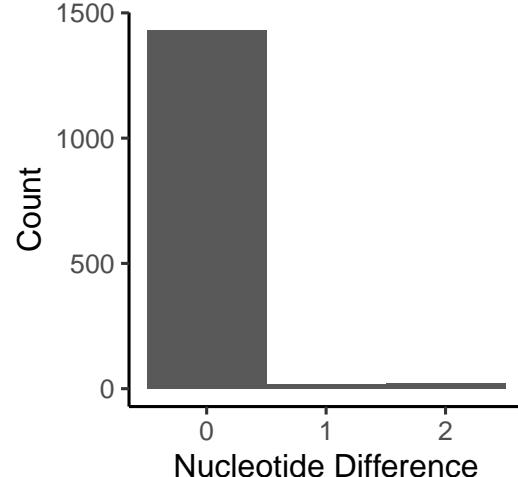
### TRBV10-2\*ap01

1773 sequences assigned  
1754 (98.9%) exact matches, in which:  
1702 unique CDR3  
13 unique J



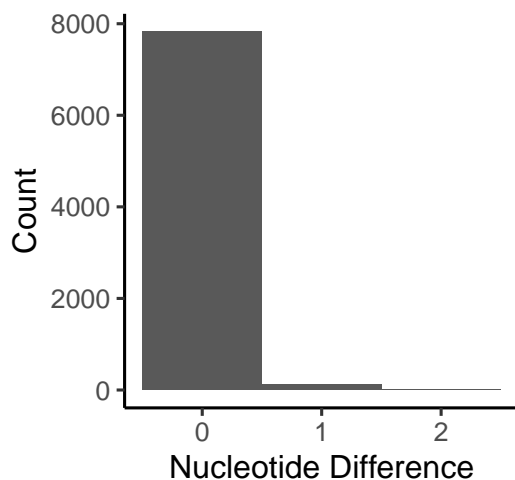
### TRBV13\*ap01

1469 sequences assigned  
1430 (97.3%) exact matches, in which:  
1380 unique CDR3  
13 unique J



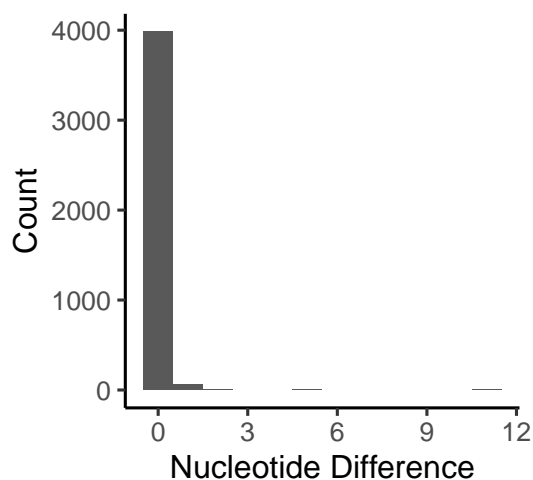
### TRBV20-1\*ap01

7947 sequences assigned  
7825 (98.5%) exact matches, in which:  
7618 unique CDR3  
13 unique J



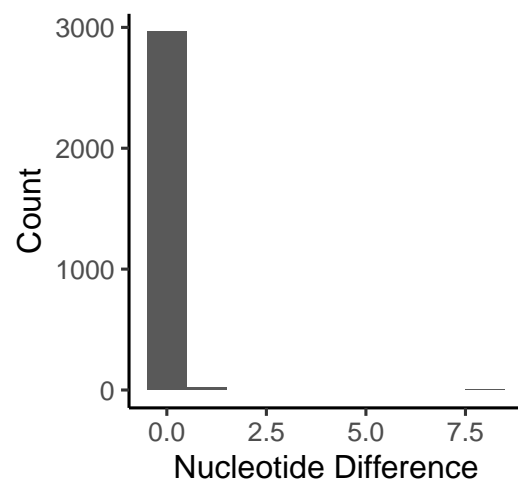
### TRBV10-3\*ap01

4043 sequences assigned  
3983 (98.5%) exact matches, in which:  
3860 unique CDR3  
13 unique J



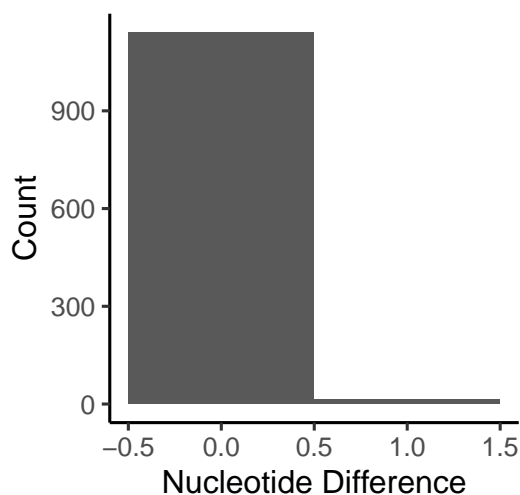
### TRBV14\*ap01

2988 sequences assigned  
2964 (99.2%) exact matches, in which:  
2887 unique CDR3  
13 unique J



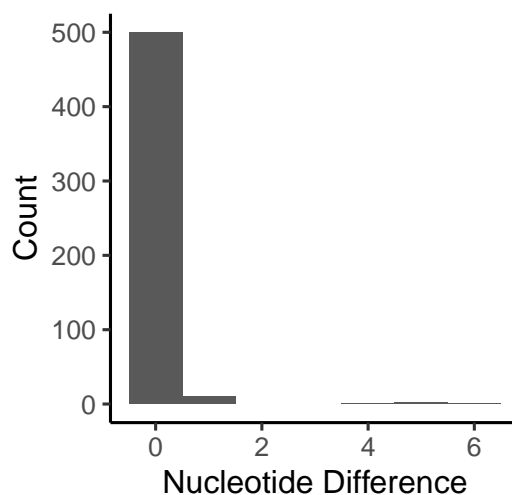
### TRBV20-1\*ap02

1156 sequences assigned  
1141 (98.7%) exact matches, in which:  
1115 unique CDR3  
13 unique J



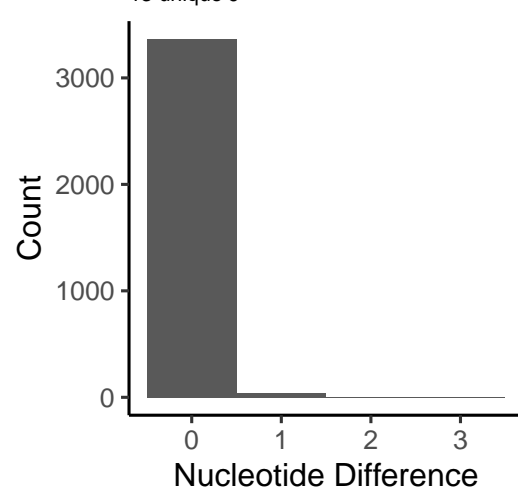
### TRBV1\*ap01

514 sequences assigned  
500 (97.3%) exact matches, in which:  
491 unique CDR3  
13 unique J



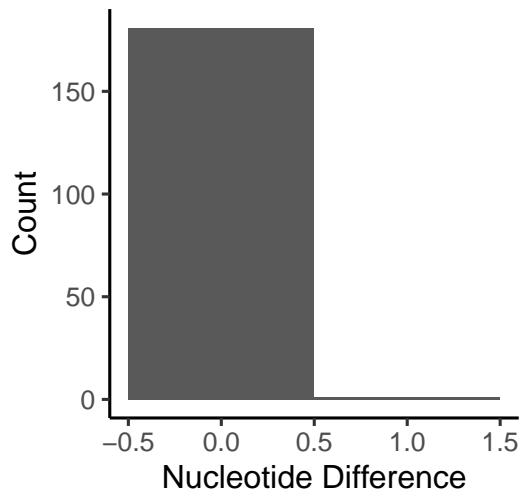
### TRBV15\*ap02

3407 sequences assigned  
3365 (98.8%) exact matches, in which:  
3261 unique CDR3  
13 unique J



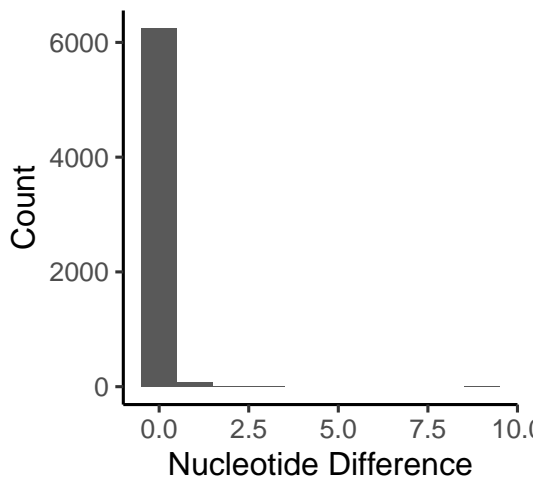
### TRBV16\*ap01

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



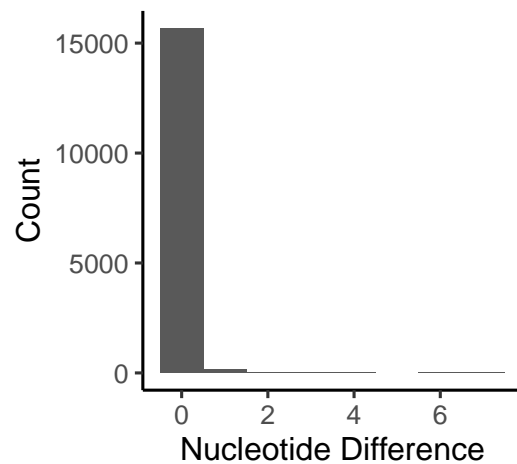
### TRBV2\*ap01

6339 sequences assigned  
6244 (98.5%) exact matches, in which:  
6064 unique CDR3  
13 unique J



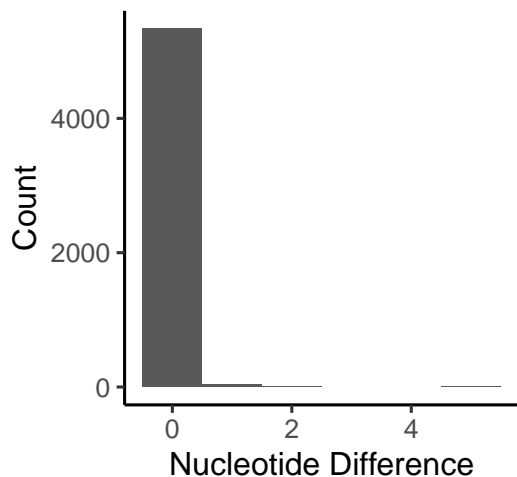
### TRBV28\*ap01

15868 sequences assigned  
15681 (98.8%) exact matches, in which:  
15263 unique CDR3  
13 unique J



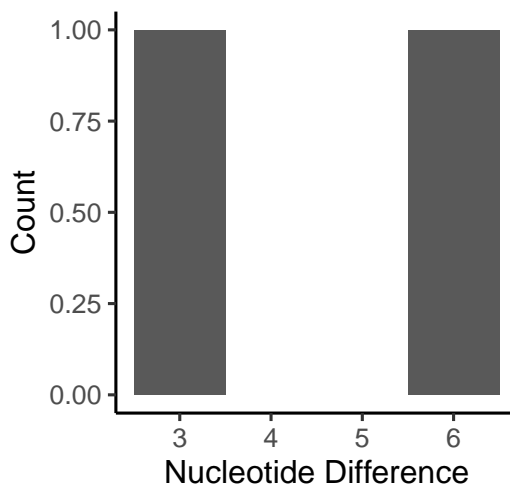
### TRBV18\*ap01

5374 sequences assigned  
5335 (99.3%) exact matches, in which:  
5230 unique CDR3  
13 unique J



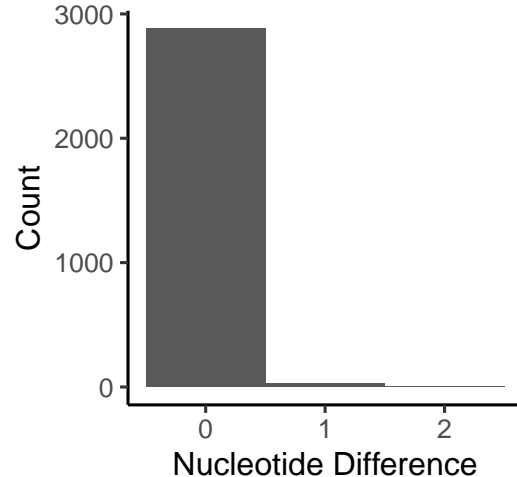
### TRBV26\*ap01

2 sequences assigned  
No exact matches.



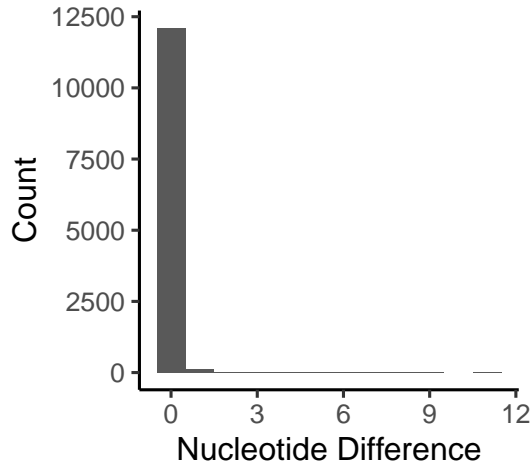
### TRBV30\*ap01

2912 sequences assigned  
2881 (98.9%) exact matches, in which:  
2834 unique CDR3  
13 unique J



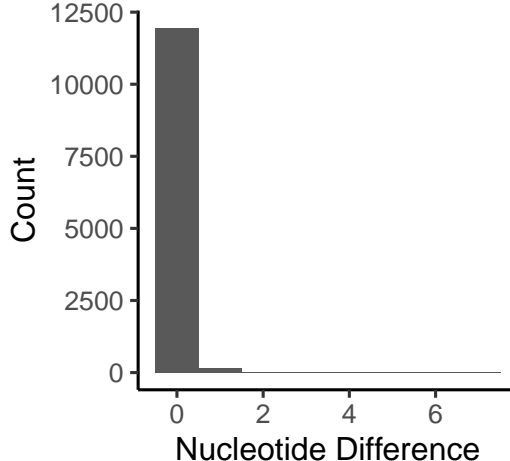
### TRBV19\*ap01

12259 sequences assigned  
12111 (98.8%) exact matches, in which:  
11896 unique CDR3  
13 unique J



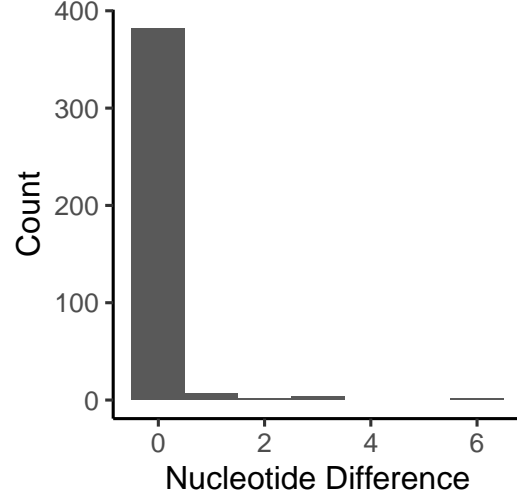
### TRBV27\*ap01

12140 sequences assigned  
11957 (98.5%) exact matches, in which:  
11558 unique CDR3  
13 unique J



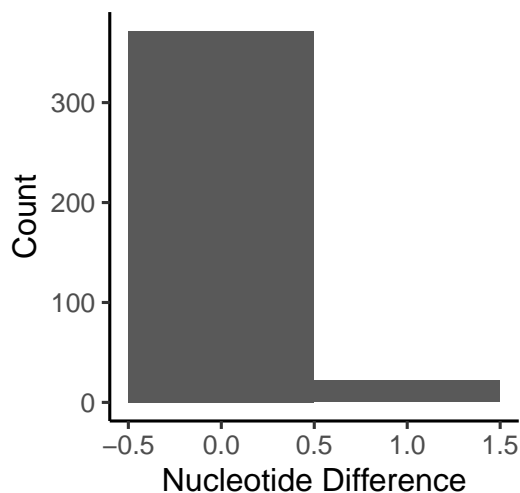
### TRBV30\*ap02

397 sequences assigned  
382 (96.2%) exact matches, in which:  
375 unique CDR3  
13 unique J



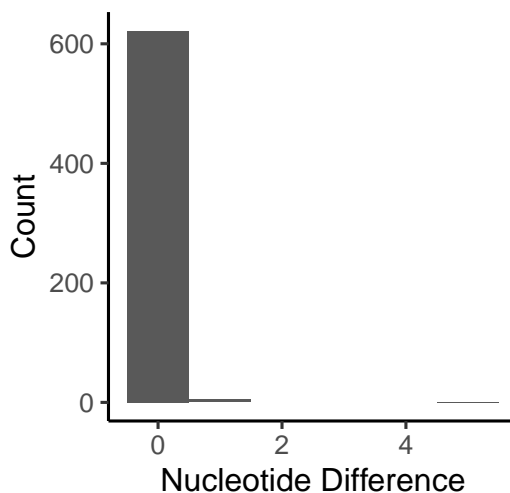
### TRBV30\*ap03

394 sequences assigned  
372 (94.4%) exact matches, in which:  
368 unique CDR3  
13 unique J



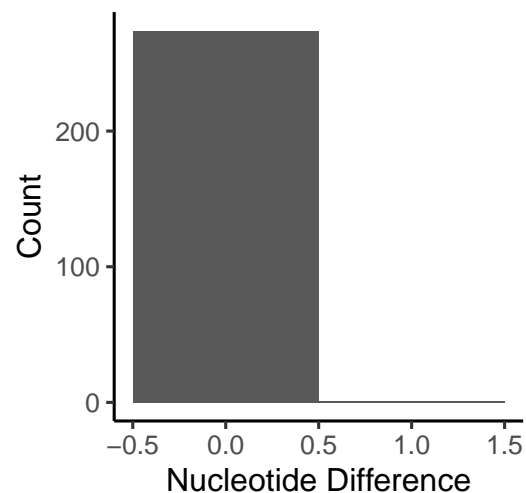
### TRBV11-1\*ap01

628 sequences assigned  
622 (99%) exact matches, in which:  
608 unique CDR3  
13 unique J



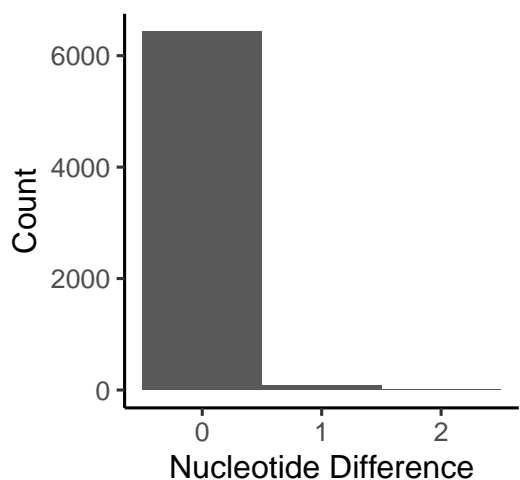
### TRBV12-1\*ap01

275 sequences assigned  
274 (99.6%) exact matches, in which:  
266 unique CDR3  
13 unique J



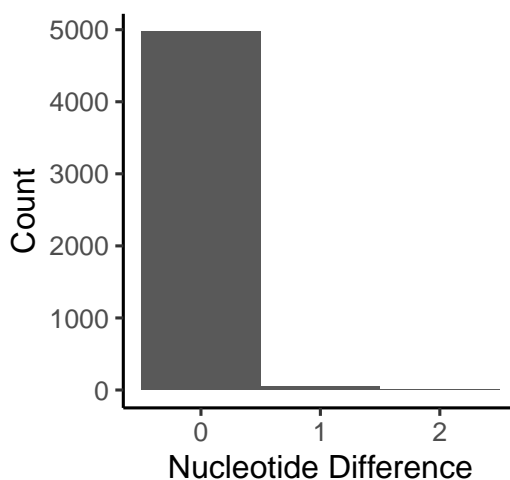
### TRBV9\*ap01

6508 sequences assigned  
6430 (98.8%) exact matches, in which:  
6263 unique CDR3  
13 unique J



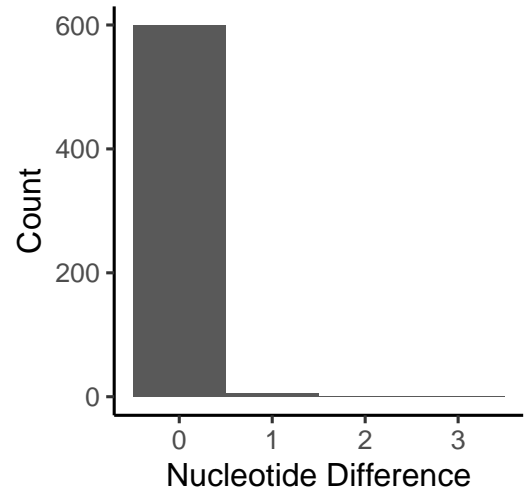
### TRBV11-2\*ap01

5027 sequences assigned  
4972 (98.9%) exact matches, in which:  
4837 unique CDR3  
13 unique J



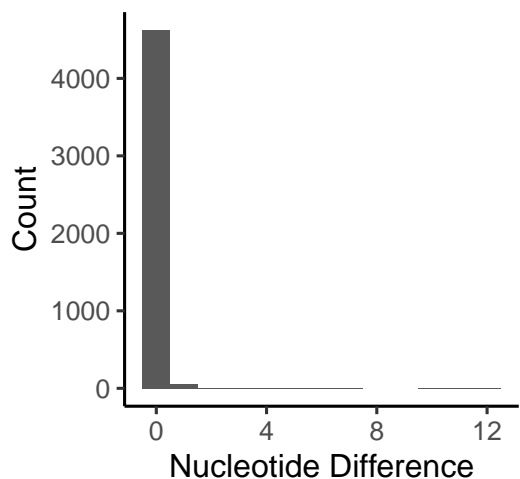
### TRBV12-2\*ap01

608 sequences assigned  
600 (98.7%) exact matches, in which:  
584 unique CDR3  
13 unique J



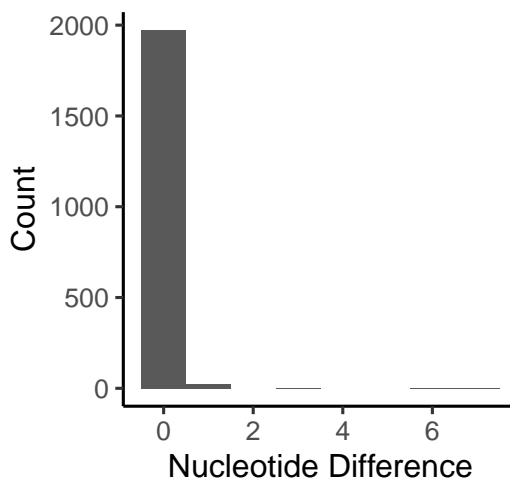
### TRBV21-1\*ap01

4706 sequences assigned  
4624 (98.3%) exact matches, in which:  
4537 unique CDR3  
13 unique J



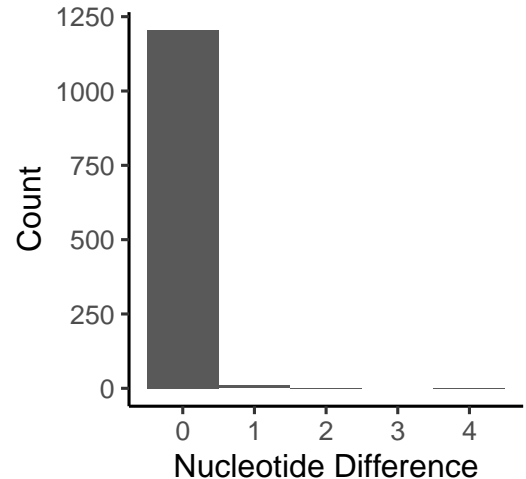
### TRBV11-3\*ap01

2000 sequences assigned  
1973 (98.7%) exact matches, in which:  
1926 unique CDR3  
13 unique J



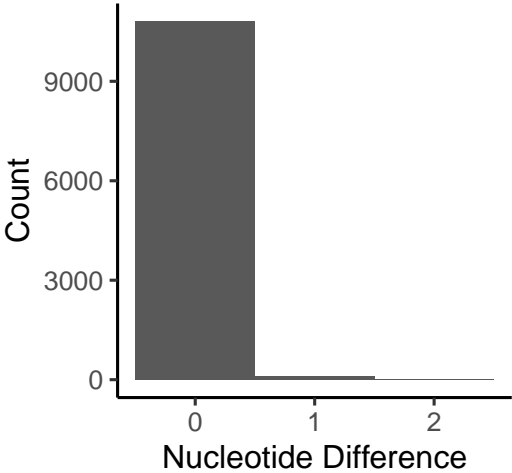
### TRBV12-5\*ap01

1217 sequences assigned  
1205 (99%) exact matches, in which:  
1171 unique CDR3  
13 unique J



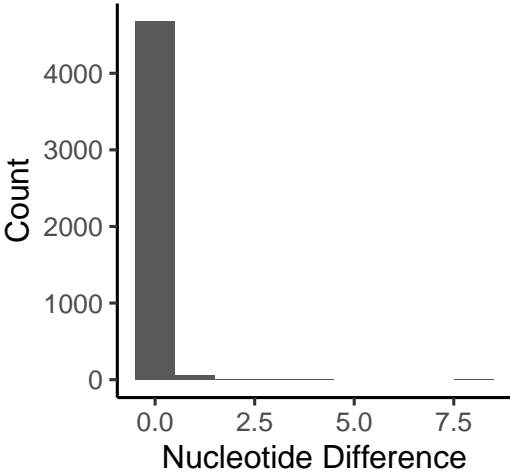
TRBV12–34\*ap01

10932 sequences assigned  
10807 (98.9%) exact matches, in which:  
10499 unique CDR3  
13 unique J



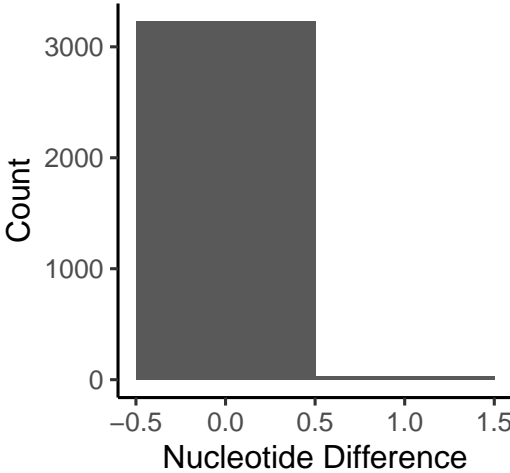
TRBV24–1\*ap01

4739 sequences assigned  
4677 (98.7%) exact matches, in which:  
4582 unique CDR3  
13 unique J



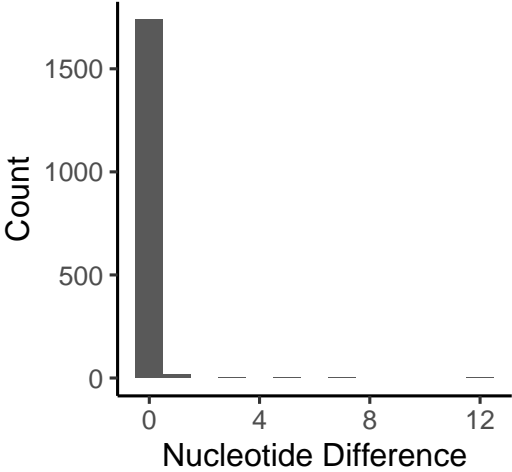
TRBV4–3\*ap01

3258 sequences assigned  
3229 (99.1%) exact matches, in which:  
3109 unique CDR3  
13 unique J



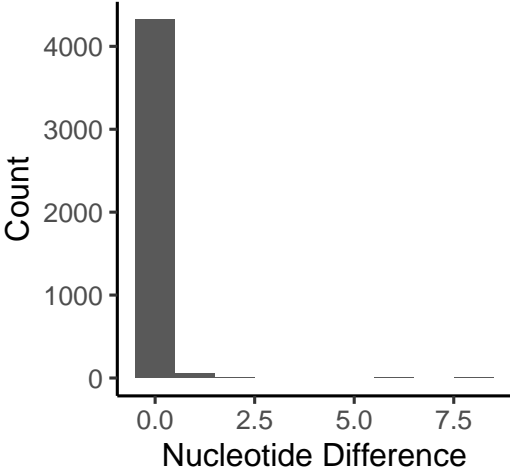
TRBV23–1\*ap01

1760 sequences assigned  
1738 (98.8%) exact matches, in which:  
1702 unique CDR3  
13 unique J



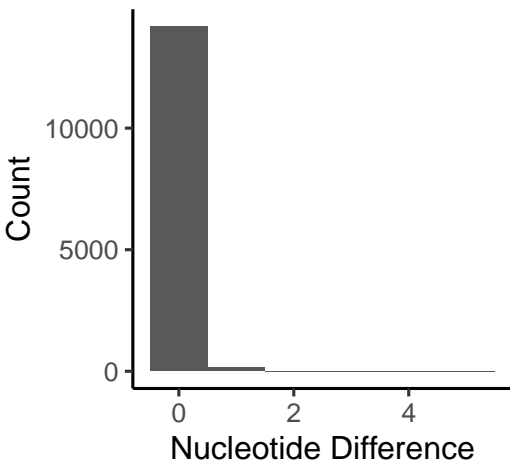
TRBV4–1\*ap01

4373 sequences assigned  
4321 (98.8%) exact matches, in which:  
4167 unique CDR3  
13 unique J



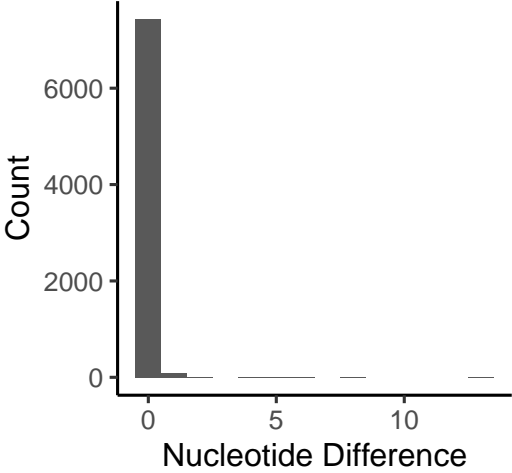
TRBV5–1\*ap01

14352 sequences assigned  
14182 (98.8%) exact matches, in which:  
13741 unique CDR3  
13 unique J



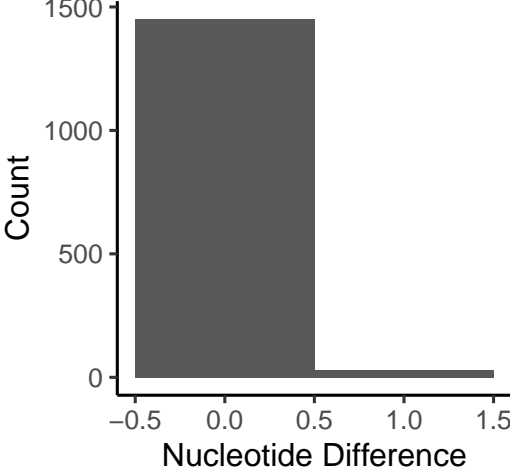
TRBV3–12\*ap01

7527 sequences assigned  
7435 (98.8%) exact matches, in which:  
7220 unique CDR3  
13 unique J



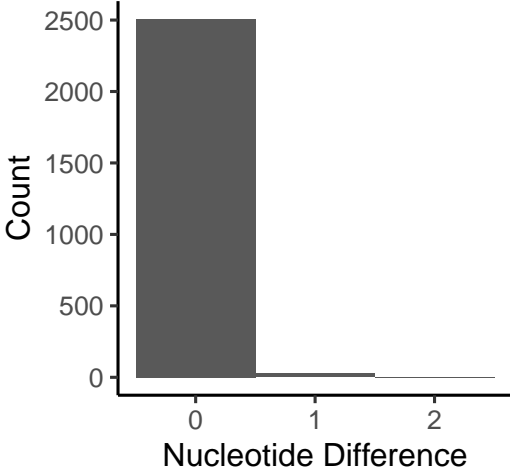
TRBV4–2\*ap01

1480 sequences assigned  
1451 (98%) exact matches, in which:  
1405 unique CDR3  
13 unique J



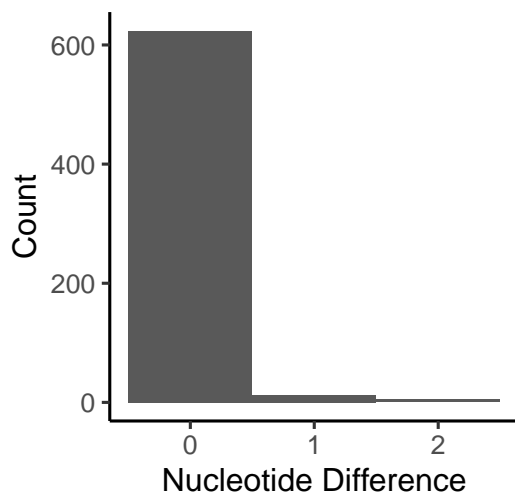
TRBV25–1\*ap01

2536 sequences assigned  
2507 (98.9%) exact matches, in which:  
2439 unique CDR3  
13 unique J



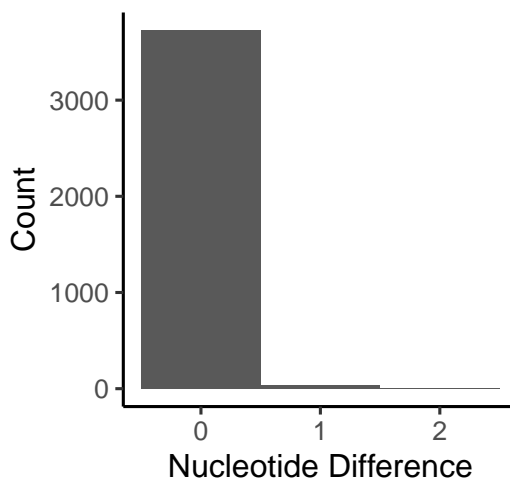
### TRBV5-3\*ap01

641 sequences assigned  
624 (97.3%) exact matches, in which:  
609 unique CDR3  
13 unique J



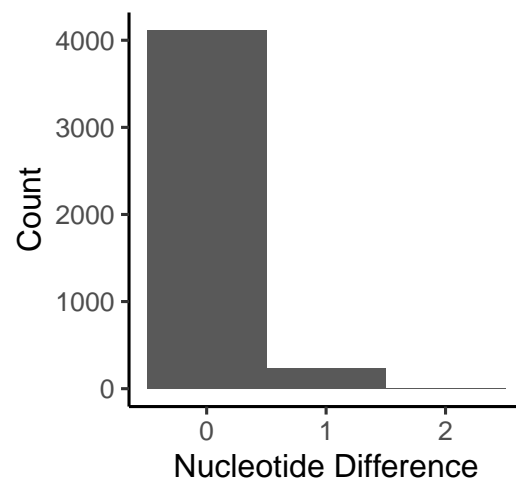
### TRBV5-6\*ap01

3767 sequences assigned  
3725 (98.9%) exact matches, in which:  
3615 unique CDR3  
13 unique J



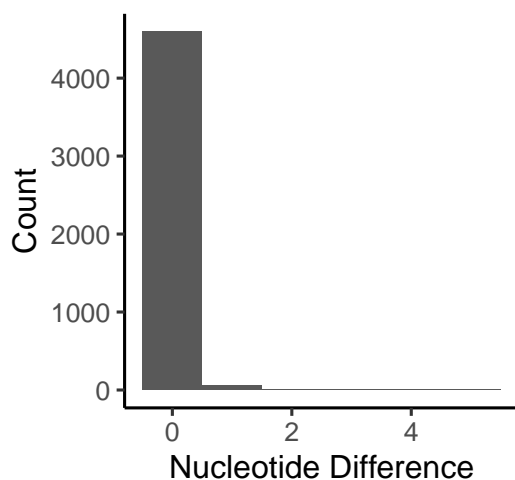
### TRBV6-1\*ap01

4354 sequences assigned  
4113 (94.5%) exact matches, in which:  
3996 unique CDR3  
13 unique J



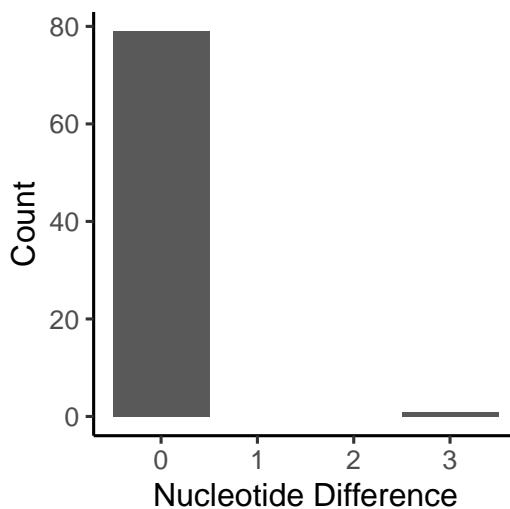
### TRBV5-4\*ap01

4654 sequences assigned  
4595 (98.7%) exact matches, in which:  
4439 unique CDR3  
13 unique J



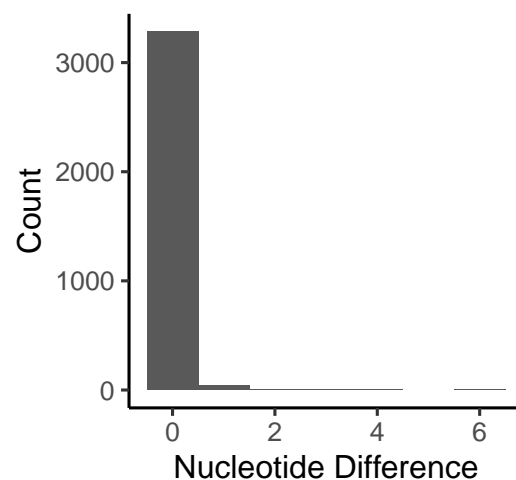
### TRBV5-7\*ap01

80 sequences assigned  
79 (98.8%) exact matches, in which:  
75 unique CDR3  
13 unique J



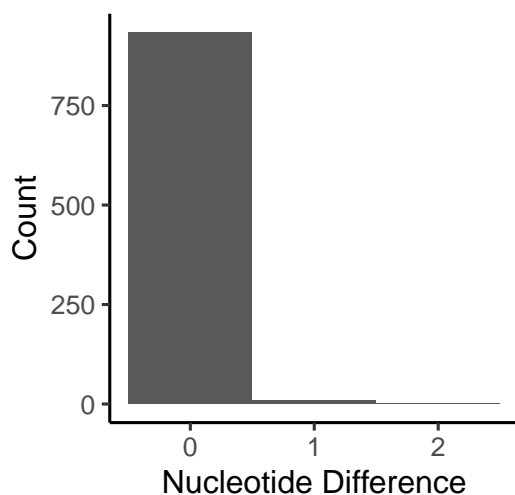
### TRBV6-4\*ap01

3333 sequences assigned  
3283 (98.5%) exact matches, in which:  
3219 unique CDR3  
14 unique J



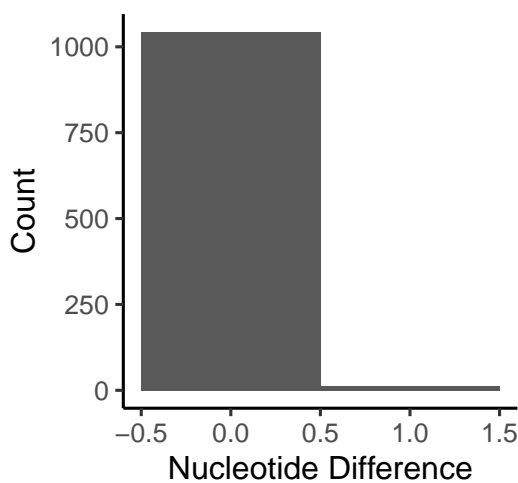
### TRBV5-5\*ap01

943 sequences assigned  
934 (99%) exact matches, in which:  
923 unique CDR3  
13 unique J



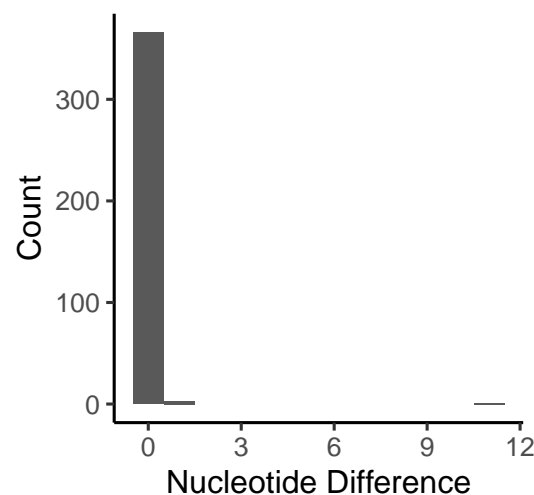
### TRBV5-8\*ap01

1056 sequences assigned  
1043 (98.8%) exact matches, in which:  
1010 unique CDR3  
13 unique J



### TRBV6-7\*ap01

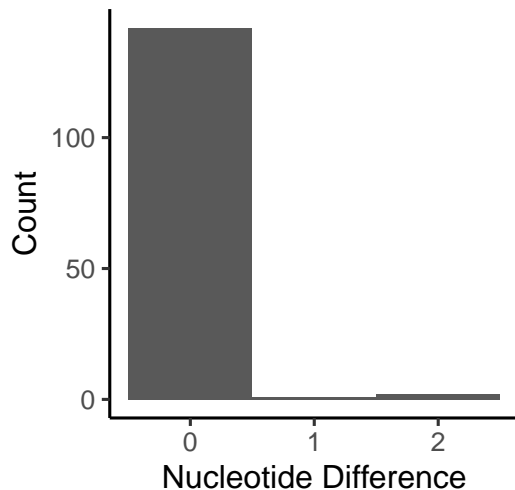
370 sequences assigned  
366 (98.9%) exact matches, in which:  
355 unique CDR3  
13 unique J





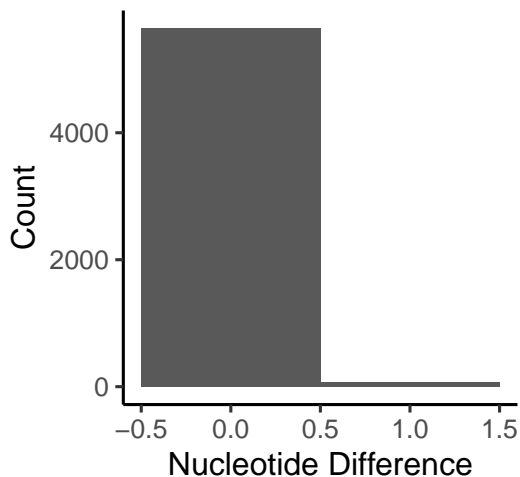
### TRBV6-8\*ap01

145 sequences assigned  
142 (97.9%) exact matches, in which:  
138 unique CDR3  
13 unique J



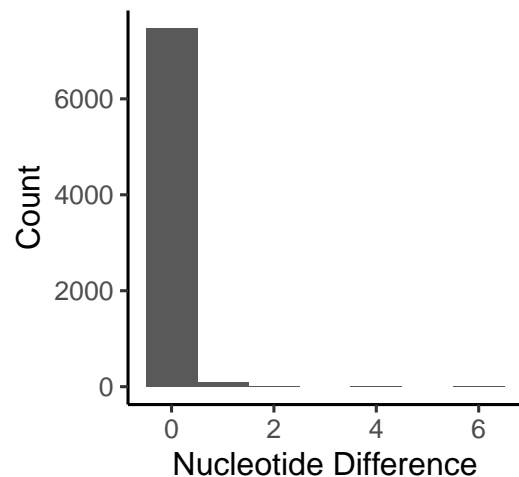
### TRBV6-56\*ap01

5712 sequences assigned  
5644 (98.8%) exact matches, in which:  
5466 unique CDR3  
13 unique J



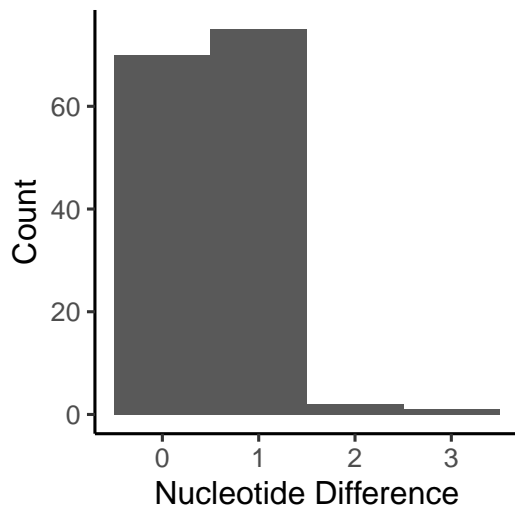
### TRBV7-2\*ap01

7557 sequences assigned  
7468 (98.8%) exact matches, in which:  
7272 unique CDR3  
13 unique J



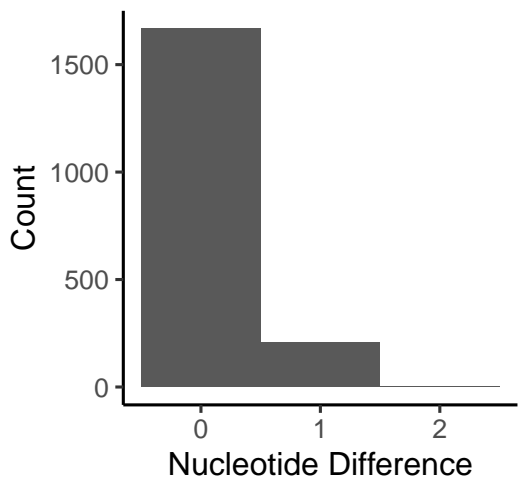
### TRBV6-9\*ap01

148 sequences assigned  
70 (47.3%) exact matches, in which:  
68 unique CDR3  
10 unique J



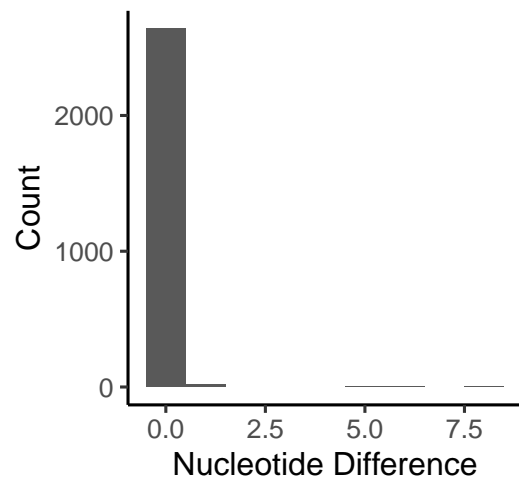
### TRBV6-56\*ap02

1876 sequences assigned  
1667 (88.9%) exact matches, in which:  
1613 unique CDR3  
13 unique J



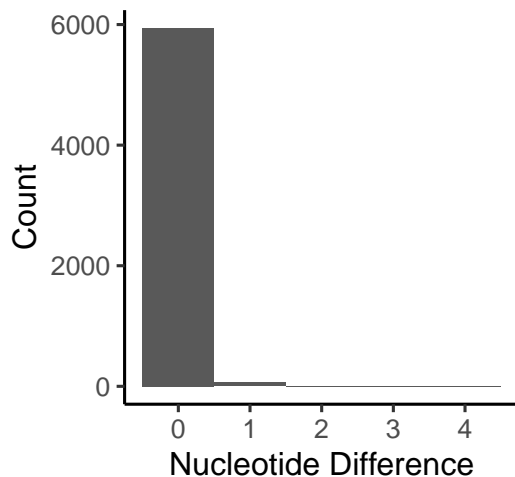
### TRBV7-3\*ap01

2665 sequences assigned  
2639 (99%) exact matches, in which:  
2581 unique CDR3  
13 unique J



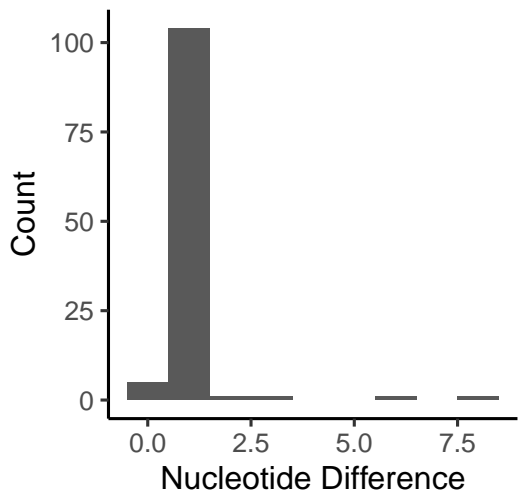
### TRBV6-23\*ap01

6018 sequences assigned  
5942 (98.7%) exact matches, in which:  
5731 unique CDR3  
13 unique J



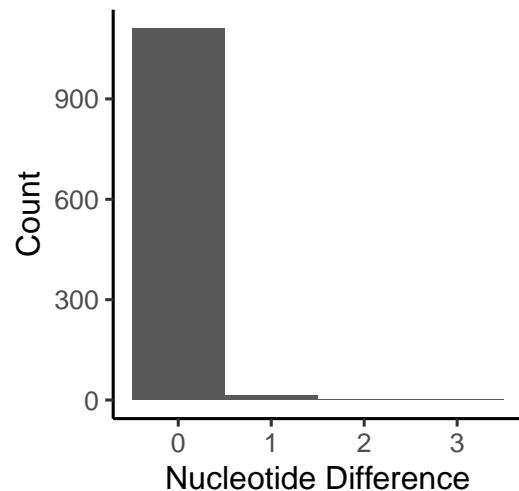
### TRBV7-1\*ap01\_T296C

113 sequences assigned  
5 (4.4%) exact matches, in which:  
5 unique CDR3  
5 unique J



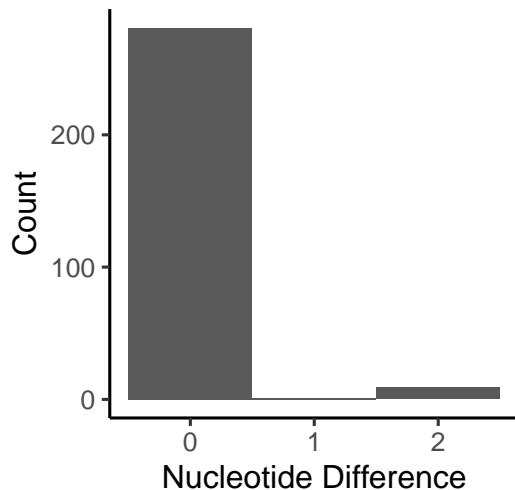
### TRBV7-3\*ap03

1127 sequences assigned  
1111 (98.6%) exact matches, in which:  
1076 unique CDR3  
13 unique J



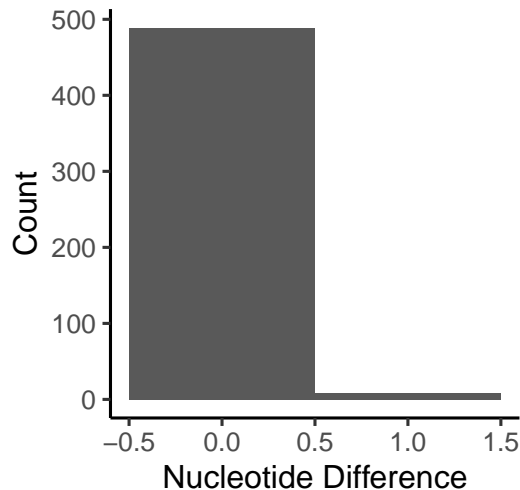
### TRBV7-4\*ap01

291 sequences assigned  
281 (96.6%) exact matches, in which:  
271 unique CDR3  
12 unique J



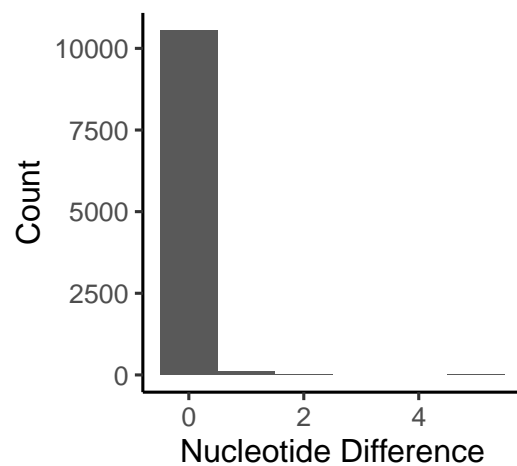
### TRBV7-7\*ap01\_C315T

497 sequences assigned  
489 (98.4%) exact matches, in which:  
477 unique CDR3  
13 unique J



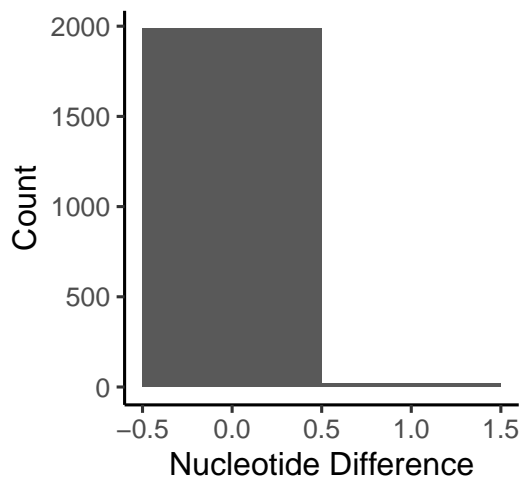
### TRBV7-9\*ap01

10659 sequences assigned  
10558 (99.1%) exact matches, in which:  
10319 unique CDR3  
13 unique J



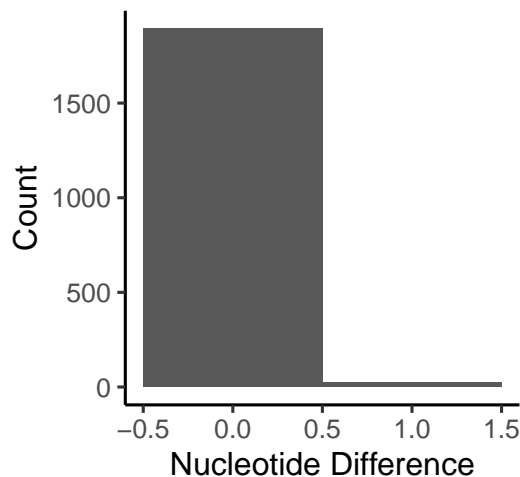
### TRBV7-6\*ap01

2007 sequences assigned  
1986 (99%) exact matches, in which:  
1917 unique CDR3  
13 unique J



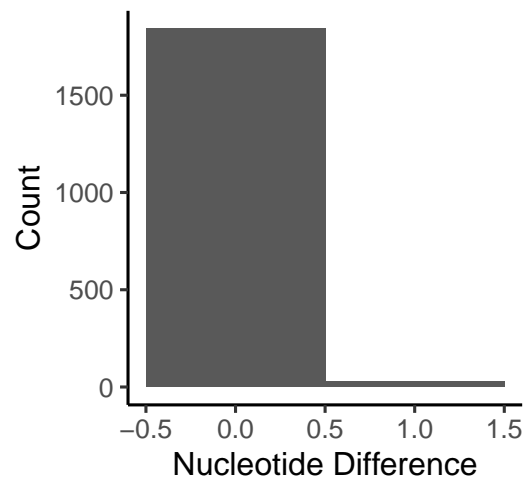
### TRBV7-8\*ap01

1916 sequences assigned  
1893 (98.8%) exact matches, in which:  
1838 unique CDR3  
13 unique J



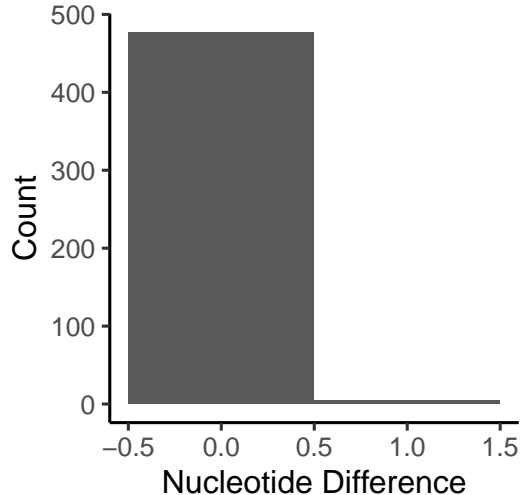
### TRBV29-1\*ap01

1870 sequences assigned  
1842 (98.5%) exact matches, in which:  
1793 unique CDR3  
13 unique J



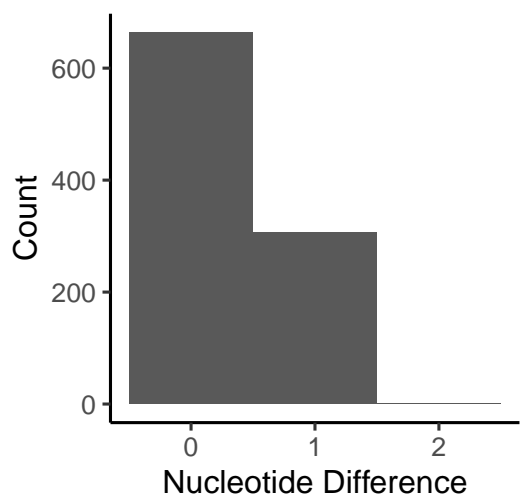
### TRBV7-7\*ap01

482 sequences assigned  
477 (99%) exact matches, in which:  
467 unique CDR3  
13 unique J



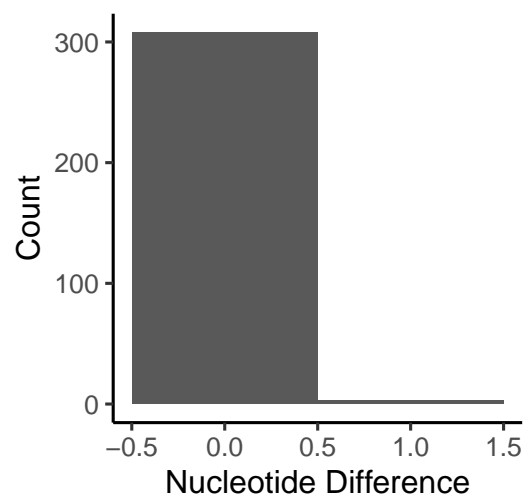
### TRBV7-8\*ap03

972 sequences assigned  
664 (68.3%) exact matches, in which:  
641 unique CDR3  
13 unique J

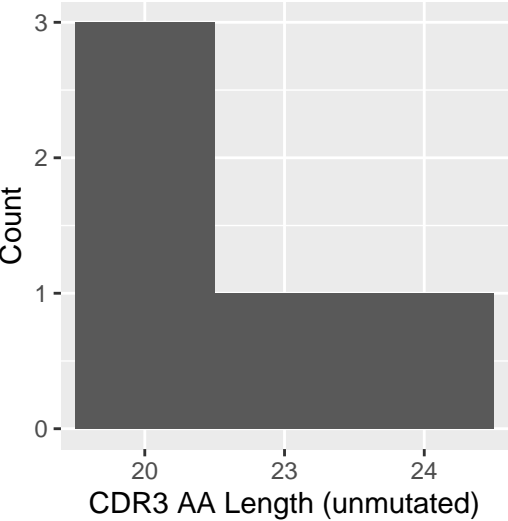


### TRBV29-1\*ap02

311 sequences assigned  
308 (99%) exact matches, in which:  
306 unique CDR3  
13 unique J



TRBV7-1\*ap01\_T296C



TRBV7-7\*ap01\_C315T

