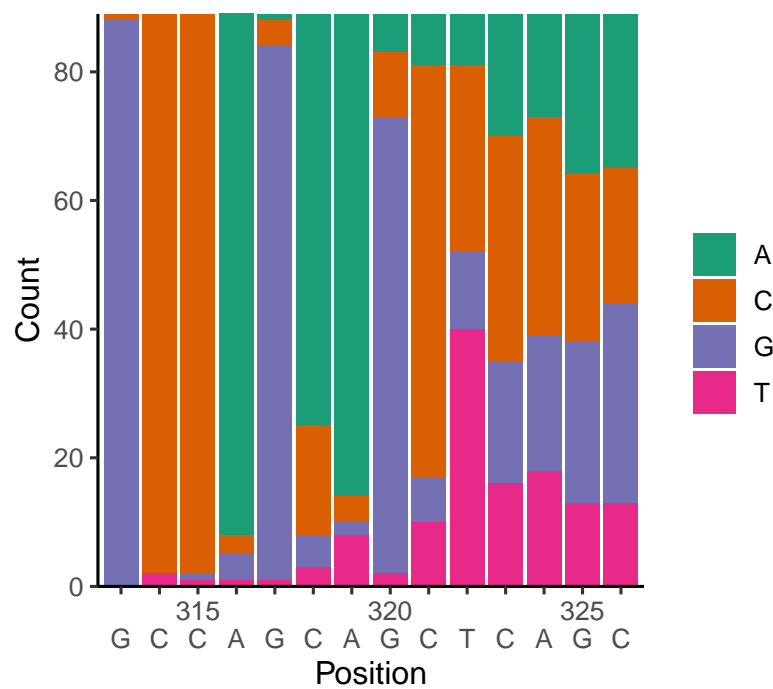
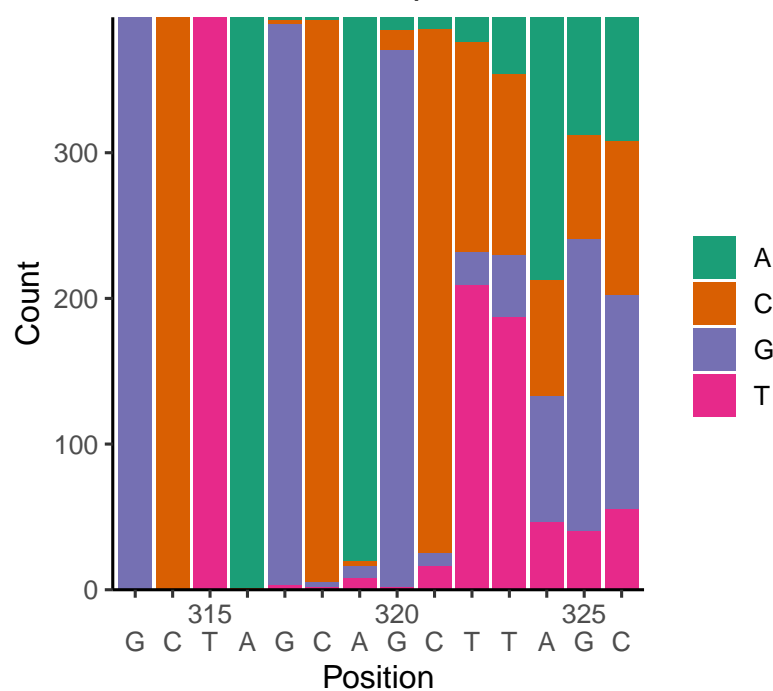


Gene TRBV7-1\*ap01\_T296C



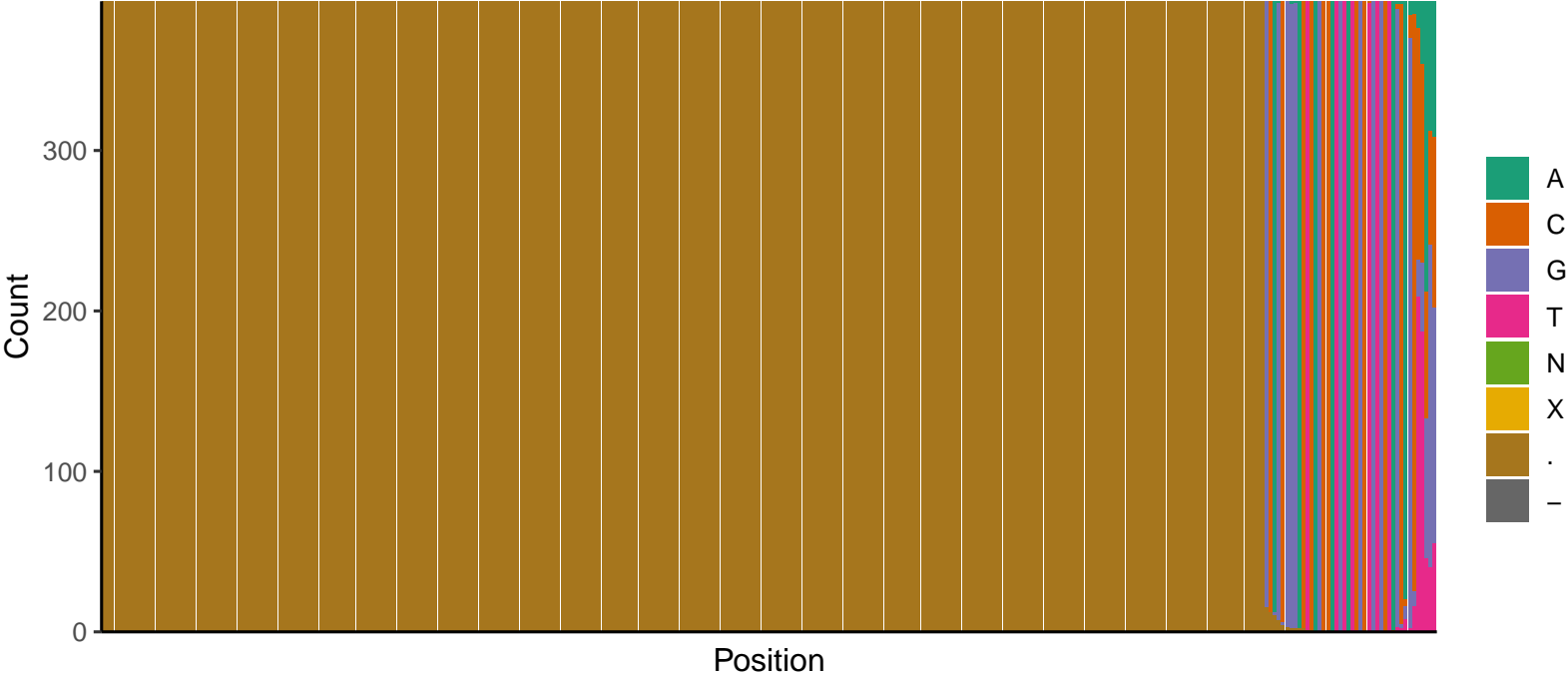
Gene TRBV7-7\*ap01\_C315T



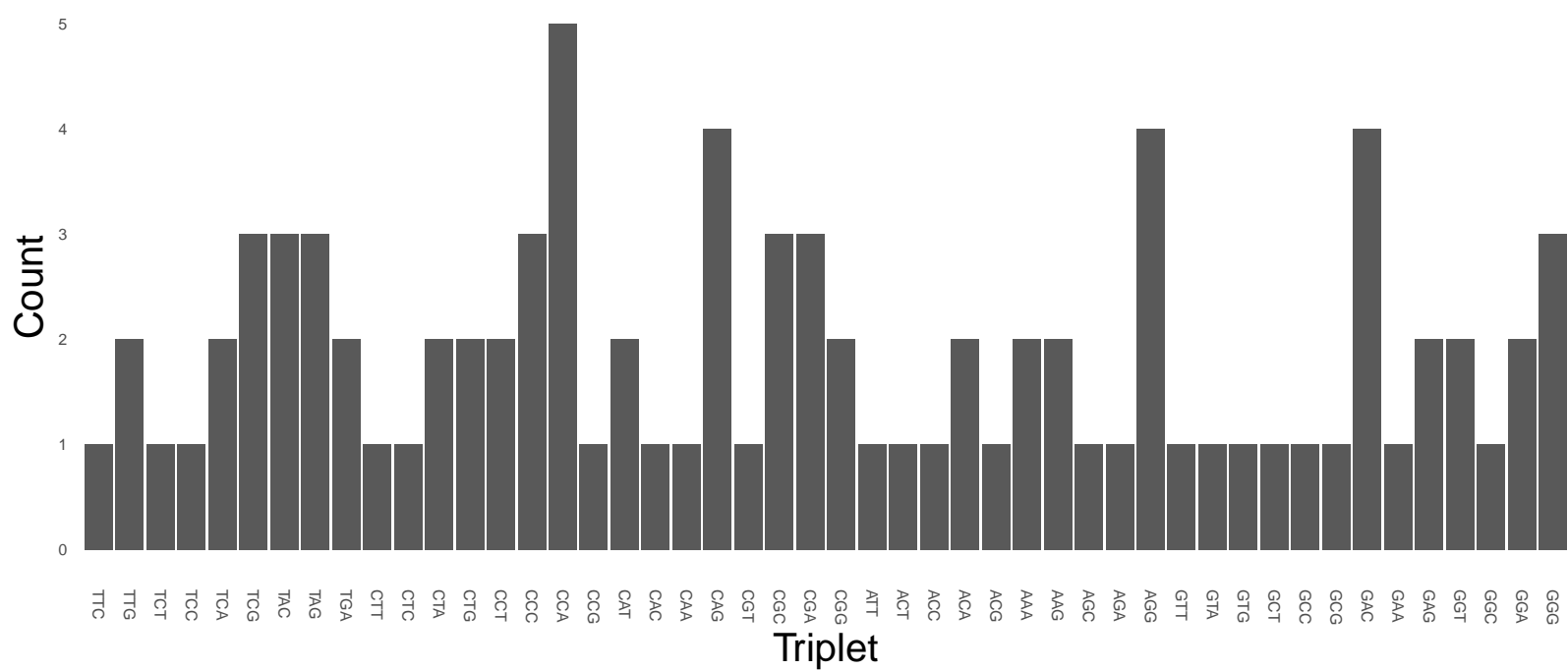
Gene TRBV7-1\*ap01\_T296C



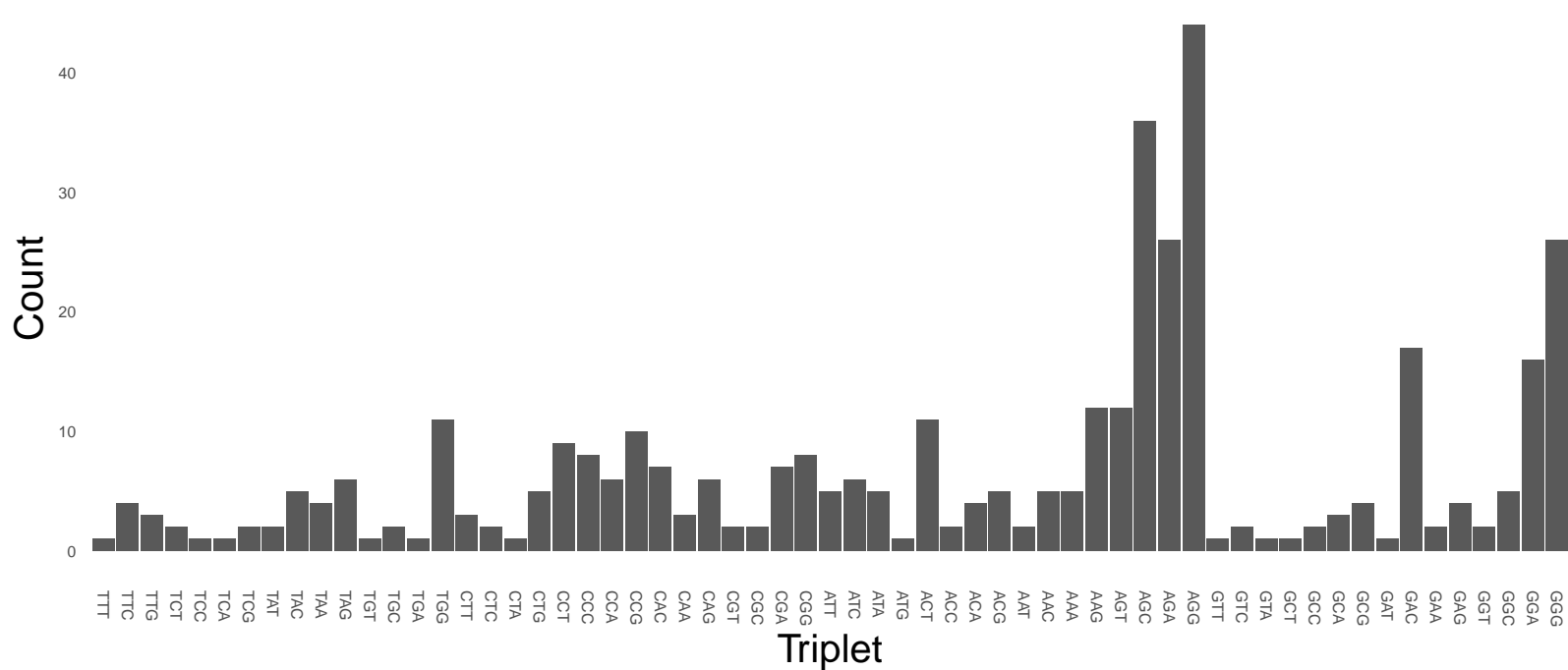
Gene TRBV7-7\*ap01\_C315T



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

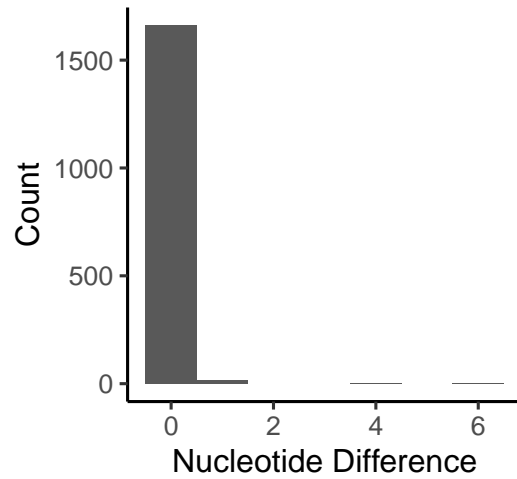


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



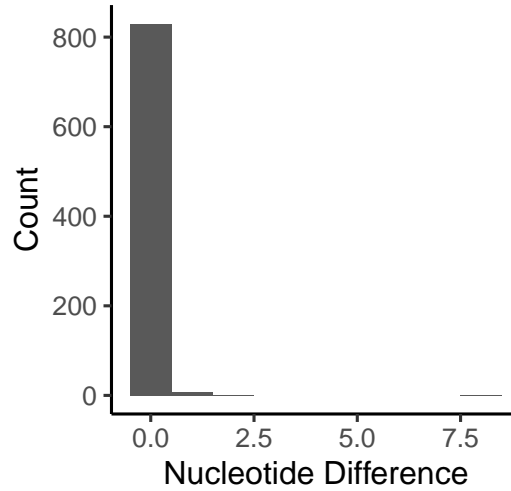
### TRBV10-1\*ap01

1680 sequences assigned  
1661 (98.9%) exact matches, in which:  
1610 unique CDR3  
13 unique J



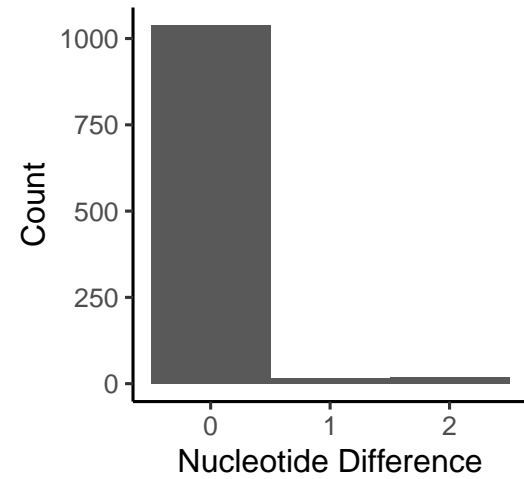
### TRBV10-2\*ap01

839 sequences assigned  
830 (98.9%) exact matches, in which:  
817 unique CDR3  
13 unique J



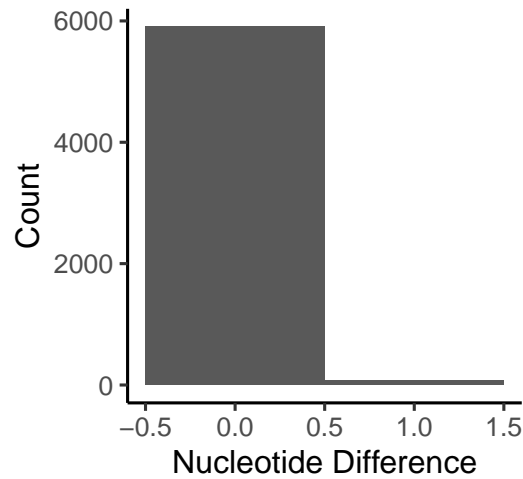
### TRBV13\*ap01

1074 sequences assigned  
1038 (96.6%) exact matches, in which:  
995 unique CDR3  
13 unique J



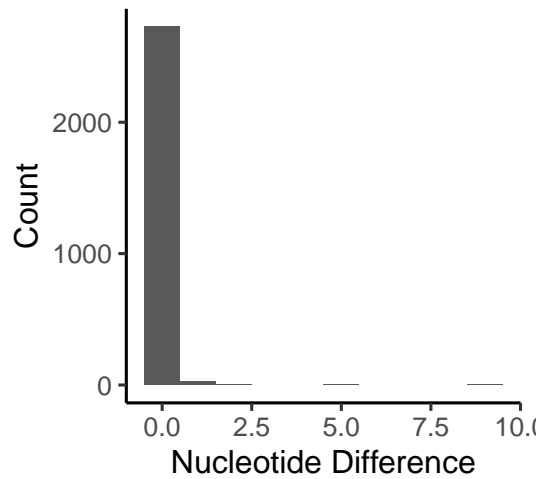
### TRBV20-1\*ap01

5978 sequences assigned  
5904 (98.8%) exact matches, in which:  
5828 unique CDR3  
13 unique J



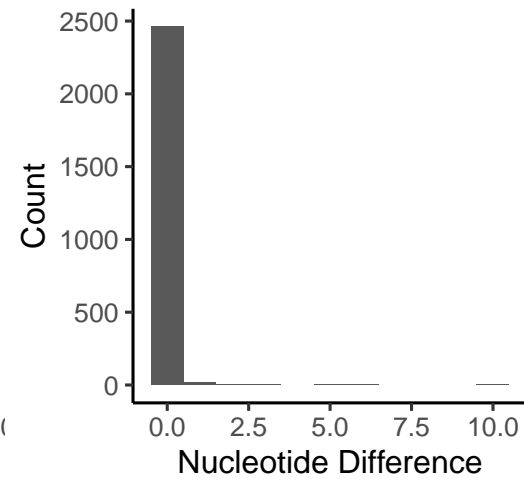
### TRBV10-3\*ap01

2759 sequences assigned  
2727 (98.8%) exact matches, in which:  
2655 unique CDR3  
13 unique J



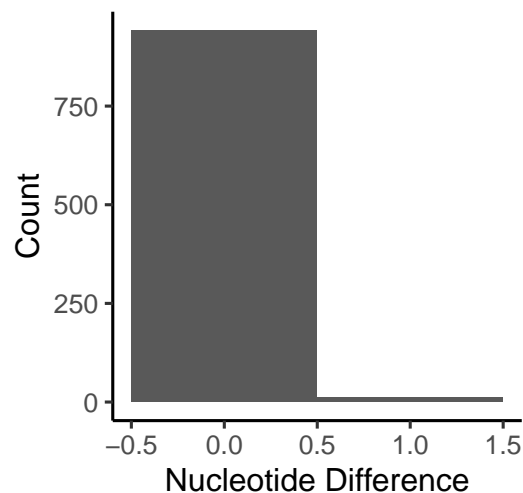
### TRBV14\*ap01

2482 sequences assigned  
2461 (99.2%) exact matches, in which:  
2432 unique CDR3  
13 unique J



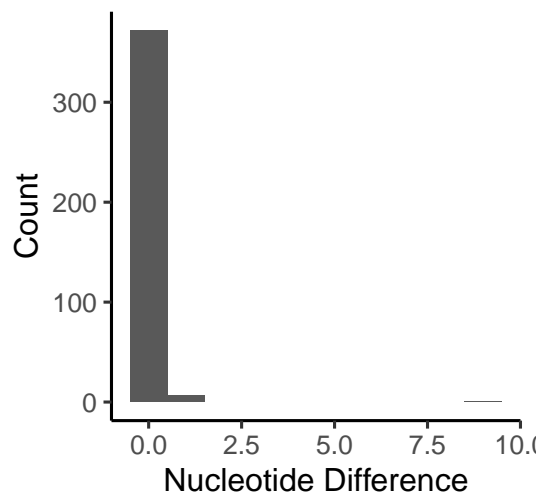
### TRBV20-1\*ap02

954 sequences assigned  
942 (98.7%) exact matches, in which:  
925 unique CDR3  
13 unique J



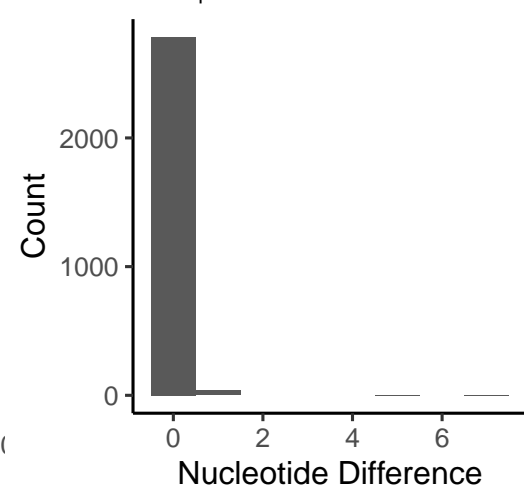
### TRBV1\*ap01

380 sequences assigned  
372 (97.9%) exact matches, in which:  
362 unique CDR3  
13 unique J



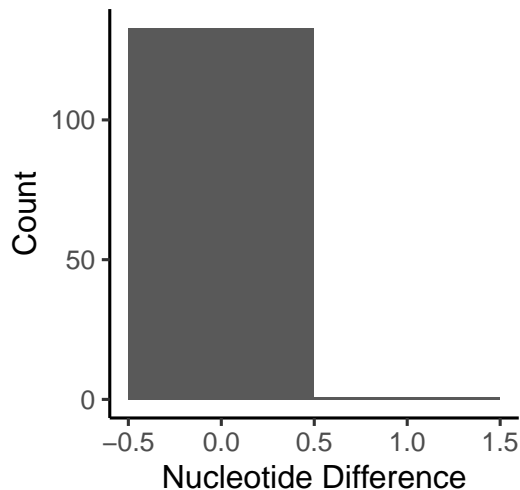
### TRBV15\*ap02

2823 sequences assigned  
2784 (98.6%) exact matches, in which:  
2724 unique CDR3  
13 unique J



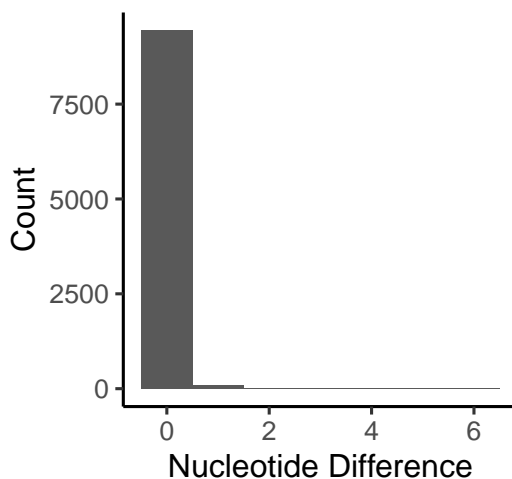
### TRBV16\*ap01

134 sequences assigned  
133 (99.3%) exact matches, in which:  
133 unique CDR3  
12 unique J



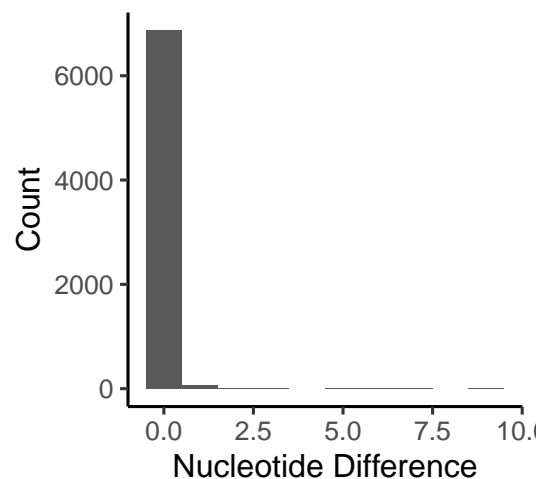
### TRBV19\*ap01

9549 sequences assigned  
9443 (98.9%) exact matches, in which:  
9361 unique CDR3  
13 unique J



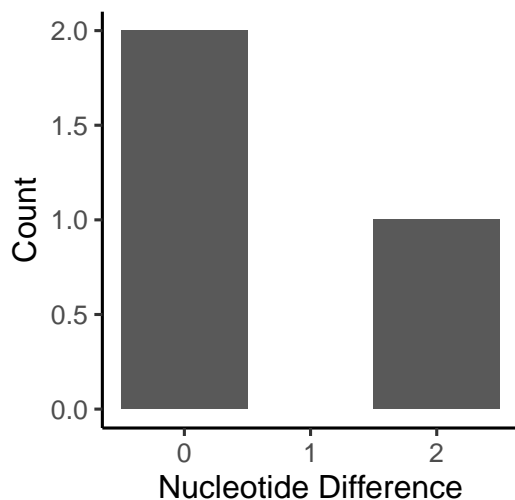
### TRBV27\*ap01

6959 sequences assigned  
6869 (98.7%) exact matches, in which:  
6701 unique CDR3  
13 unique J



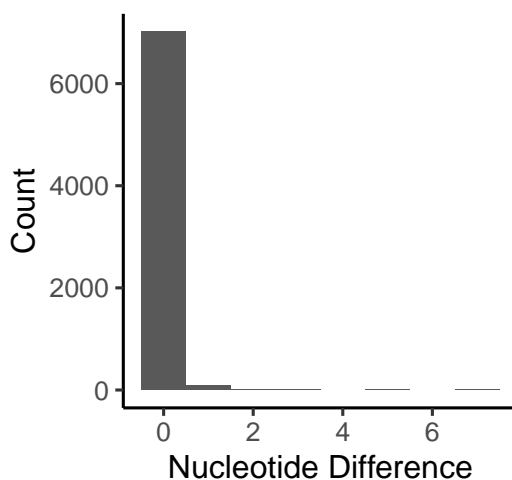
### TRBV17\*ap01

3 sequences assigned  
2 (66.7%) exact matches, in which:  
2 unique CDR3  
2 unique J



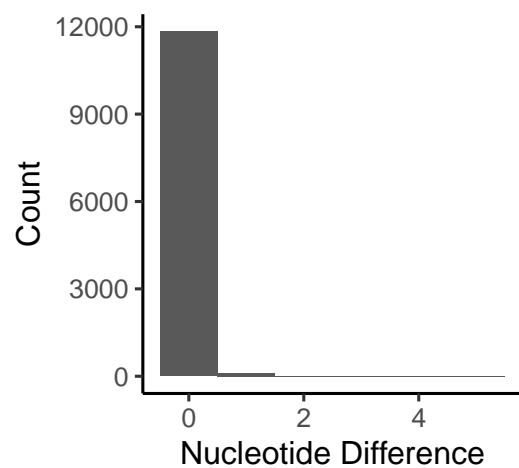
### TRBV2\*ap01

7117 sequences assigned  
7016 (98.6%) exact matches, in which:  
6863 unique CDR3  
13 unique J



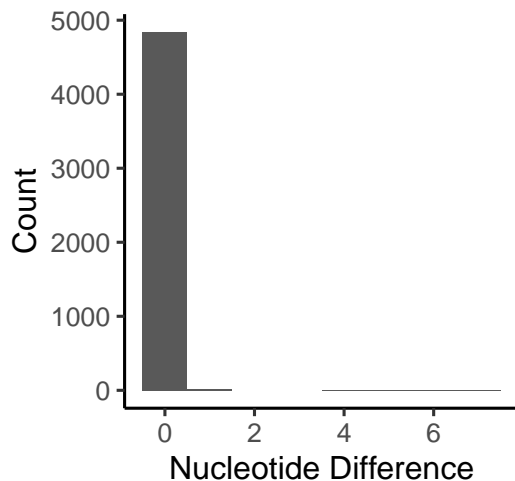
### TRBV28\*ap01

11959 sequences assigned  
11838 (99%) exact matches, in which:  
11666 unique CDR3  
13 unique J



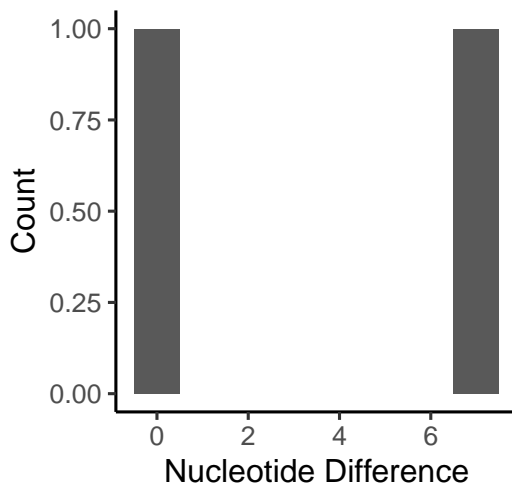
### TRBV18\*ap01

4863 sequences assigned  
4840 (99.5%) exact matches, in which:  
4804 unique CDR3  
13 unique J



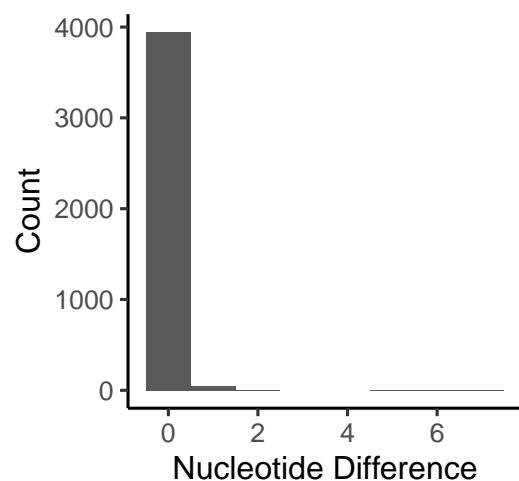
### TRBV26\*ap01

2 sequences assigned  
1 (50%) exact matches, in which:  
1 unique CDR3  
1 unique J



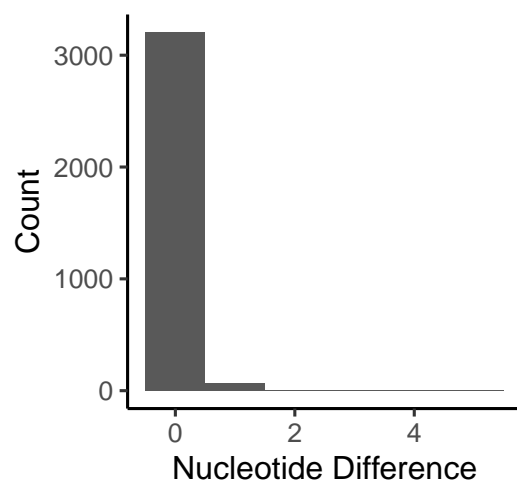
### TRBV30\*ap01

4001 sequences assigned  
3945 (98.6%) exact matches, in which:  
3842 unique CDR3  
13 unique J



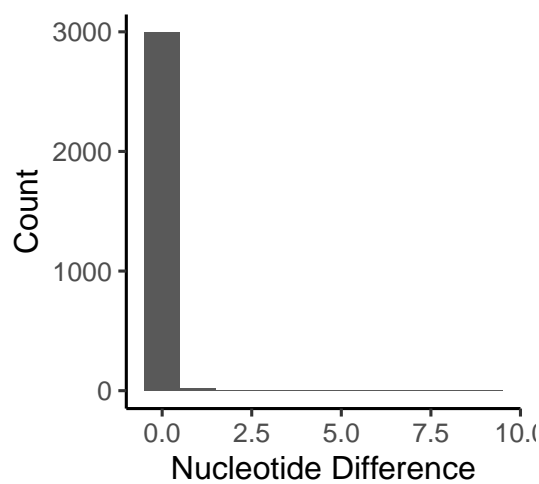
### TRBV30\*ap02

3280 sequences assigned  
3204 (97.7%) exact matches, in which:  
3140 unique CDR3  
13 unique J



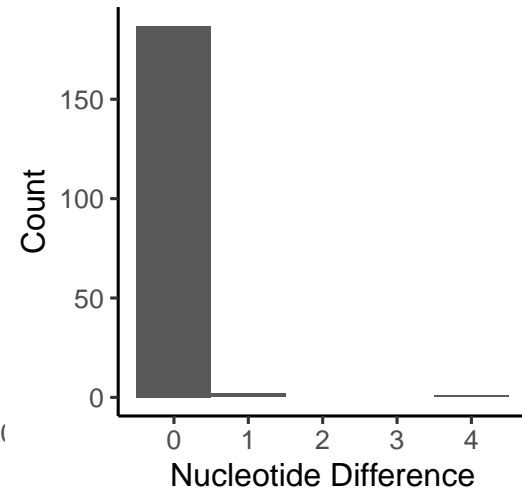
### TRBV21-1\*ap01

3039 sequences assigned  
2995 (98.6%) exact matches, in which:  
2964 unique CDR3  
13 unique J



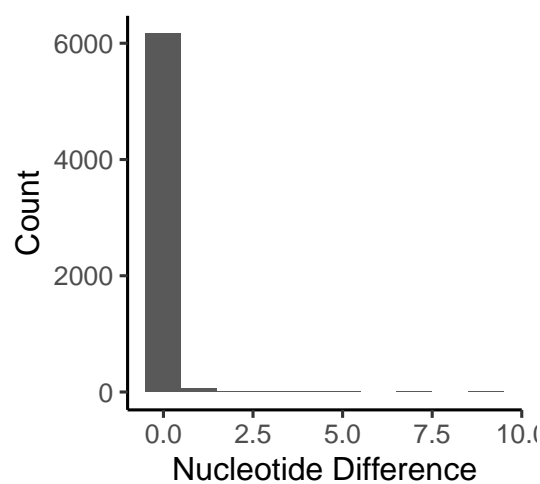
### TRBV12-1\*ap01

190 sequences assigned  
187 (98.4%) exact matches, in which:  
183 unique CDR3  
13 unique J



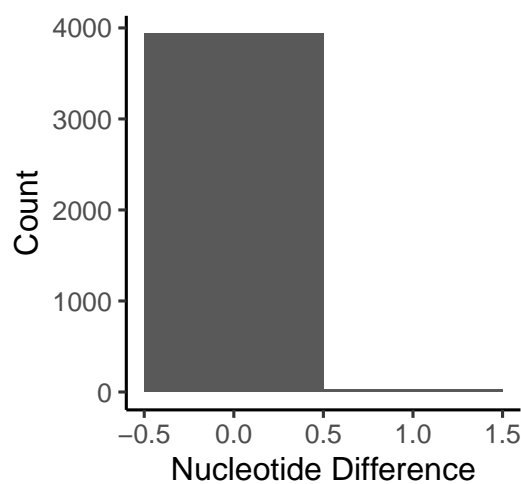
### TRBV9\*ap01

6233 sequences assigned  
6164 (98.9%) exact matches, in which:  
6077 unique CDR3  
13 unique J



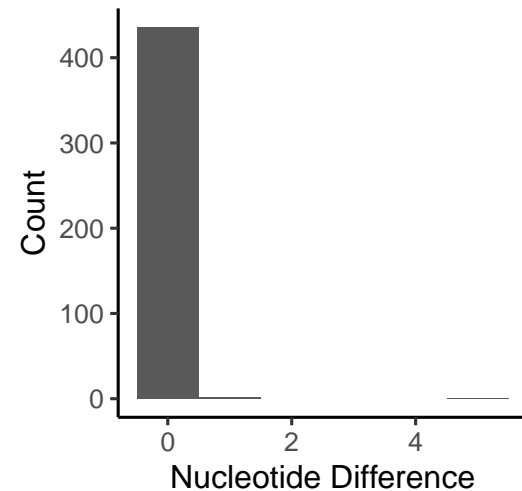
### TRBV11-2\*ap01

3967 sequences assigned  
3936 (99.2%) exact matches, in which:  
3889 unique CDR3  
13 unique J



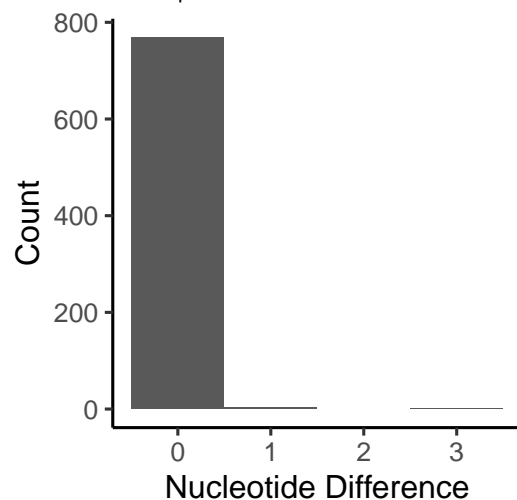
### TRBV12-2\*ap01

439 sequences assigned  
436 (99.3%) exact matches, in which:  
435 unique CDR3  
13 unique J



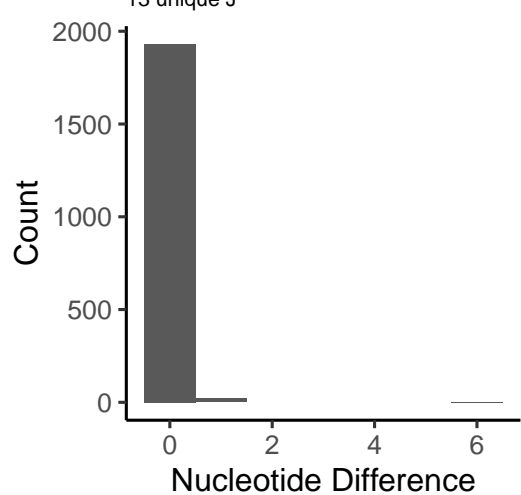
### TRBV11-1\*ap01

773 sequences assigned  
769 (99.5%) exact matches, in which:  
760 unique CDR3  
13 unique J



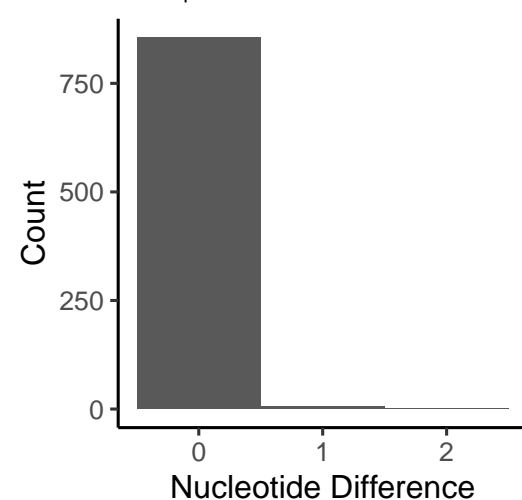
### TRBV11-3\*ap01

1953 sequences assigned  
1931 (98.9%) exact matches, in which:  
1907 unique CDR3  
13 unique J



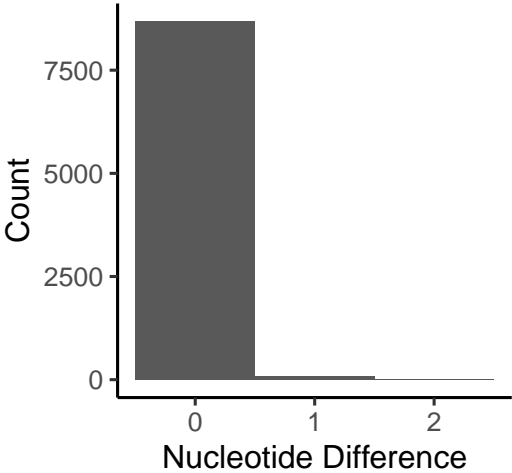
### TRBV12-5\*ap01

862 sequences assigned  
856 (99.3%) exact matches, in which:  
839 unique CDR3  
13 unique J



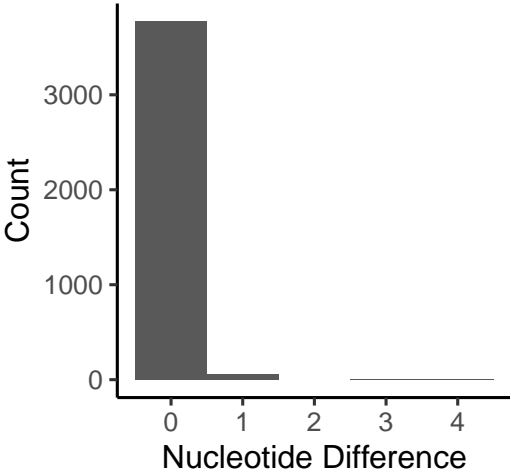
TRBV12-34\*ap01

8761 sequences assigned  
8682 (99.1%) exact matches, in which:  
8513 unique CDR3  
13 unique J



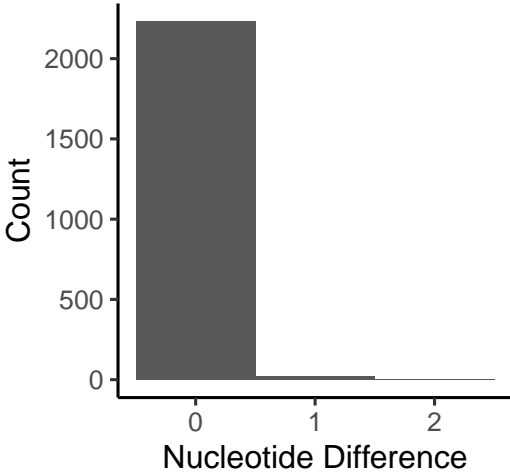
TRBV4-1\*ap01

3833 sequences assigned  
3773 (98.4%) exact matches, in which:  
3684 unique CDR3  
13 unique J



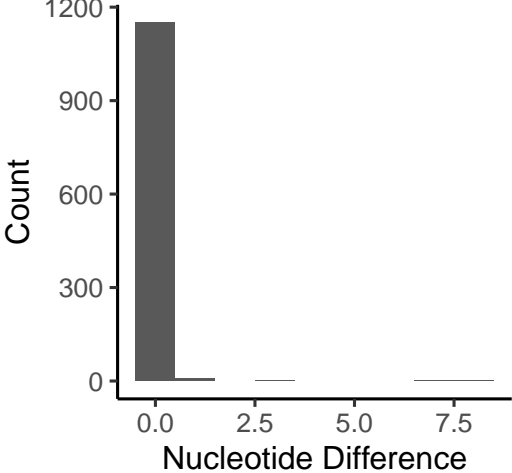
TRBV4-3\*ap01

2256 sequences assigned  
2232 (98.9%) exact matches, in which:  
2191 unique CDR3  
13 unique J



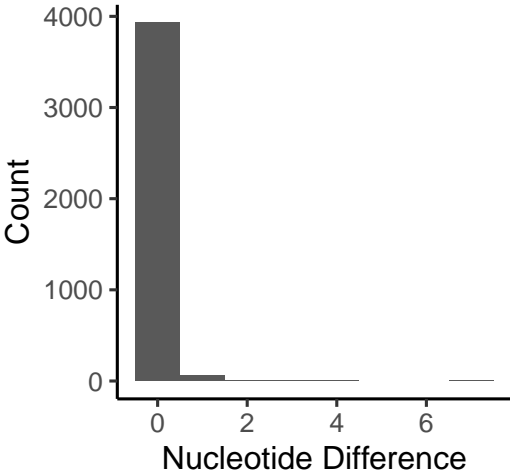
TRBV23-1\*ap01

1162 sequences assigned  
1150 (99%) exact matches, in which:  
1139 unique CDR3  
13 unique J



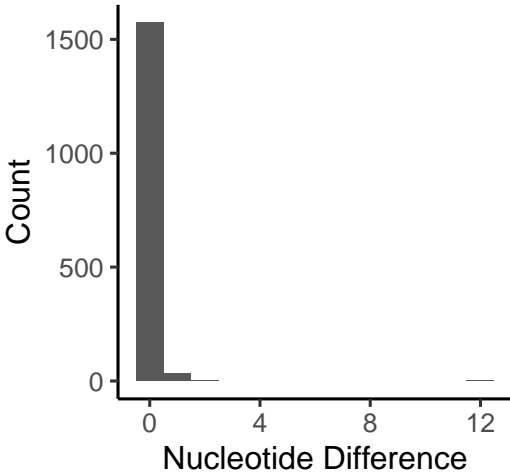
TRBV24-1\*ap01

4000 sequences assigned  
3930 (98.2%) exact matches, in which:  
3859 unique CDR3  
13 unique J



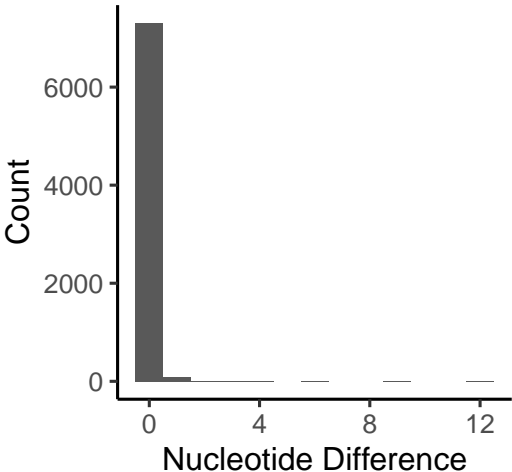
TRBV25-1\*ap01

1607 sequences assigned  
1573 (97.9%) exact matches, in which:  
1536 unique CDR3  
13 unique J



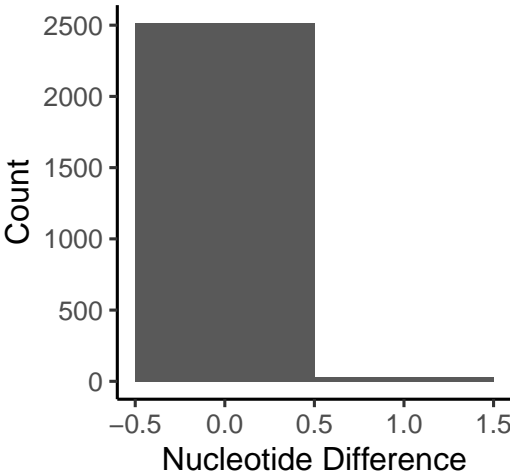
TRBV3-12\*ap01

7399 sequences assigned  
7306 (98.7%) exact matches, in which:  
7157 unique CDR3  
13 unique J



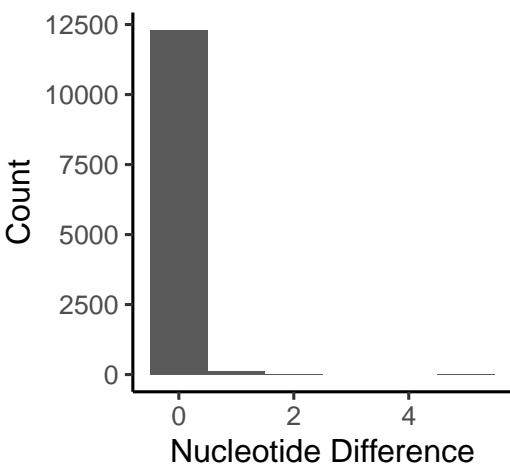
TRBV4-2\*ap01

2546 sequences assigned  
2515 (98.8%) exact matches, in which:  
2468 unique CDR3  
13 unique J



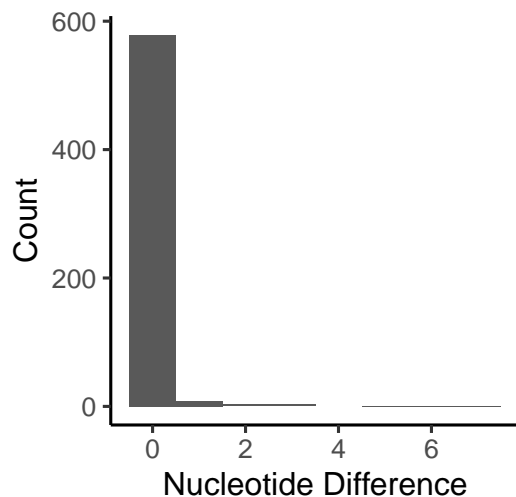
TRBV5-1\*ap01

12442 sequences assigned  
12313 (99%) exact matches, in which:  
12020 unique CDR3  
13 unique J



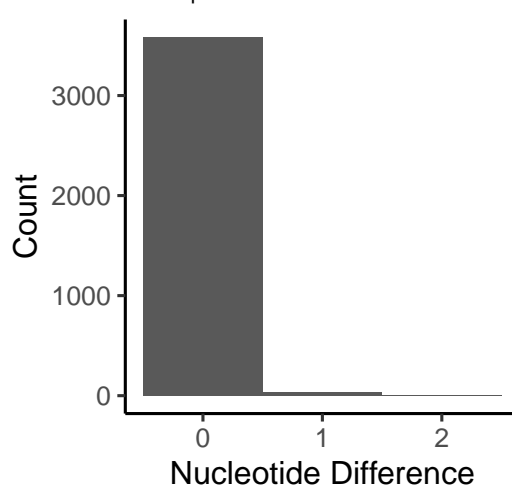
### TRBV5-3\*ap01

596 sequences assigned  
579 (97.1%) exact matches, in which:  
571 unique CDR3  
13 unique J



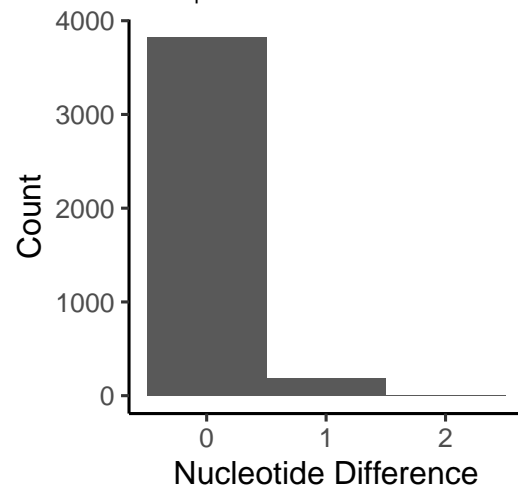
### TRBV5-6\*ap01

3622 sequences assigned  
3581 (98.9%) exact matches, in which:  
3461 unique CDR3  
13 unique J



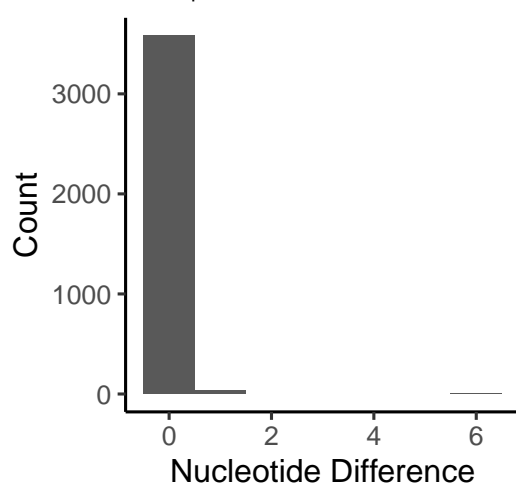
### TRBV6-1\*ap01

4012 sequences assigned  
3822 (95.3%) exact matches, in which:  
3711 unique CDR3  
13 unique J



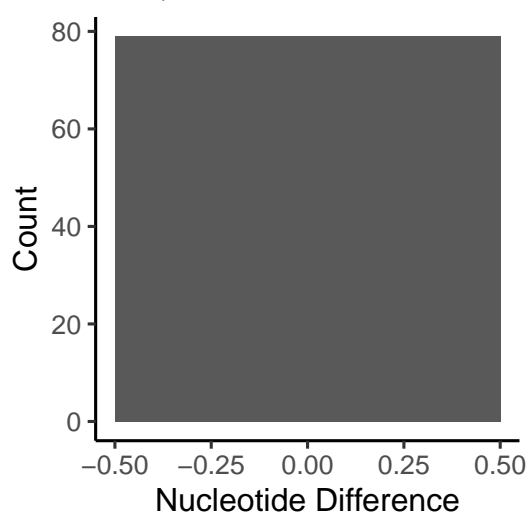
### TRBV5-4\*ap01

3616 sequences assigned  
3581 (99%) exact matches, in which:  
3498 unique CDR3  
13 unique J



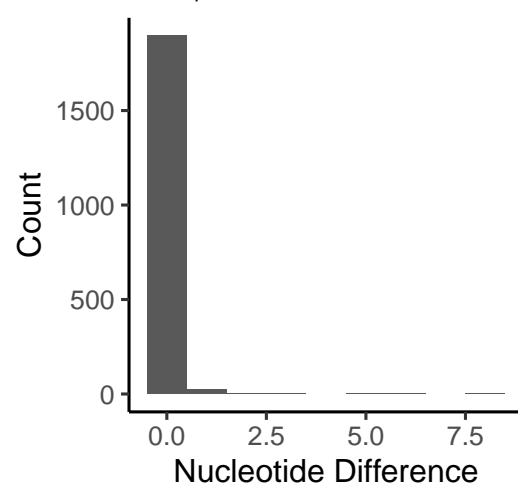
### TRBV5-7\*ap01

79 sequences assigned  
79 (100%) exact matches, in which:  
75 unique CDR3  
12 unique J



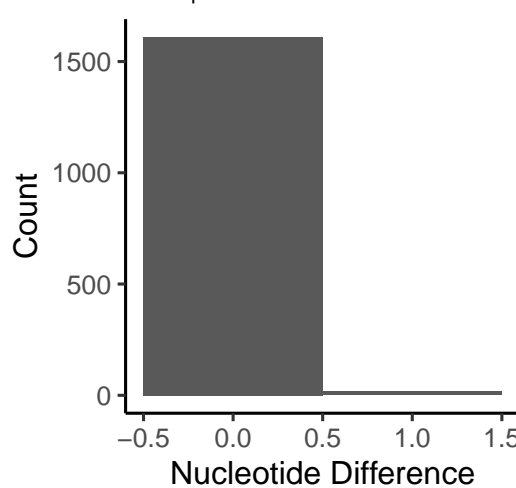
### TRBV6-4\*ap01

1930 sequences assigned  
1896 (98.2%) exact matches, in which:  
1866 unique CDR3  
13 unique J



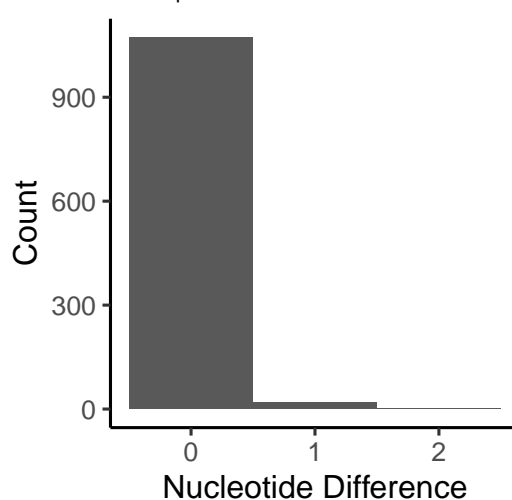
### TRBV5-5\*ap01

1627 sequences assigned  
1610 (99%) exact matches, in which:  
1591 unique CDR3  
13 unique J



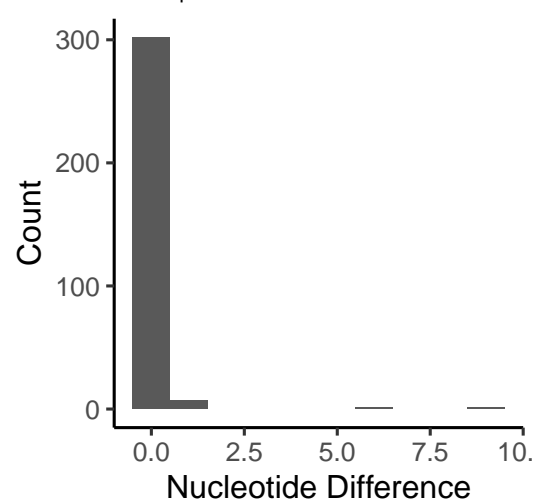
### TRBV5-8\*ap01

1094 sequences assigned  
1073 (98.1%) exact matches, in which:  
1053 unique CDR3  
13 unique J



### TRBV6-7\*ap01

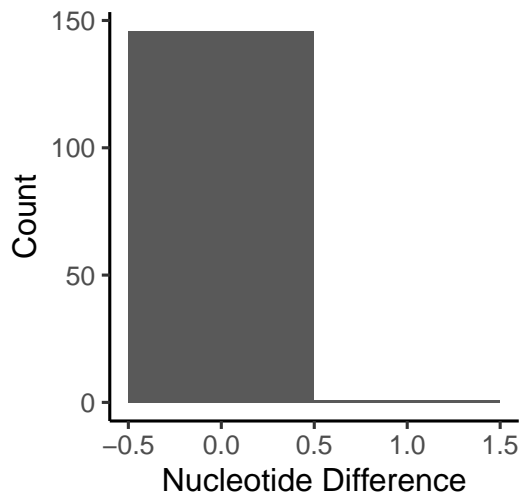
311 sequences assigned  
302 (97.1%) exact matches, in which:  
296 unique CDR3  
13 unique J





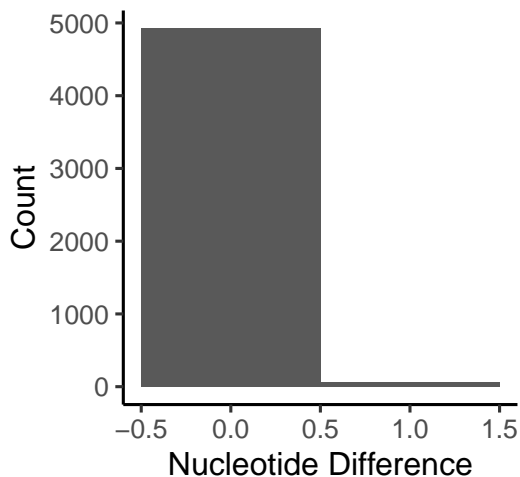
### TRBV6–8\*ap01

147 sequences assigned  
146 (99.3%) exact matches, in which:  
142 unique CDR3  
13 unique J



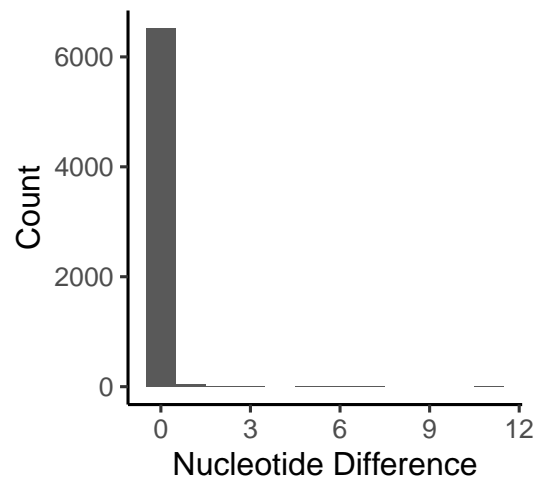
### TRBV6–56\*ap01

4981 sequences assigned  
4925 (98.9%) exact matches, in which:  
4818 unique CDR3  
13 unique J



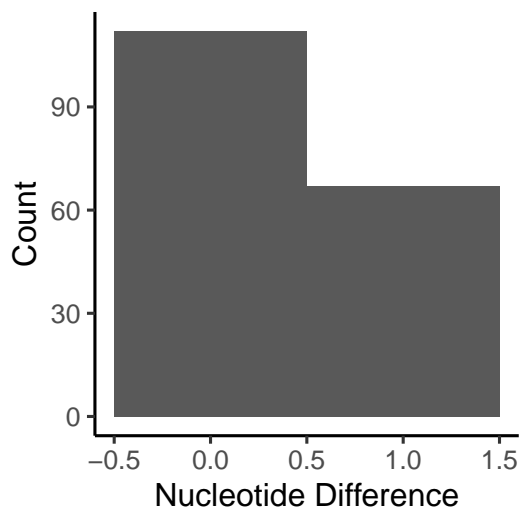
### TRBV7–2\*ap01

6568 sequences assigned  
6518 (99.2%) exact matches, in which:  
6415 unique CDR3  
13 unique J



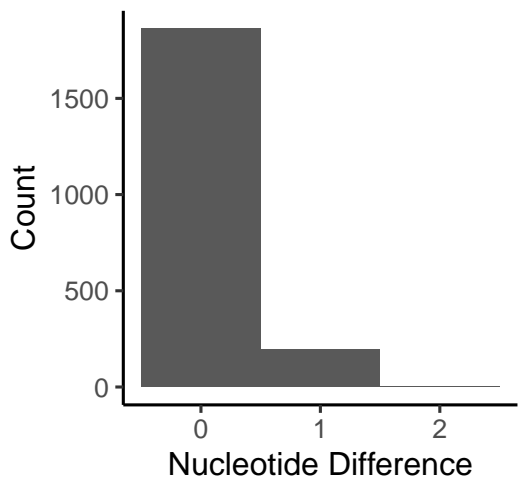
### TRBV6–9\*ap01

179 sequences assigned  
112 (62.6%) exact matches, in which:  
108 unique CDR3  
12 unique J



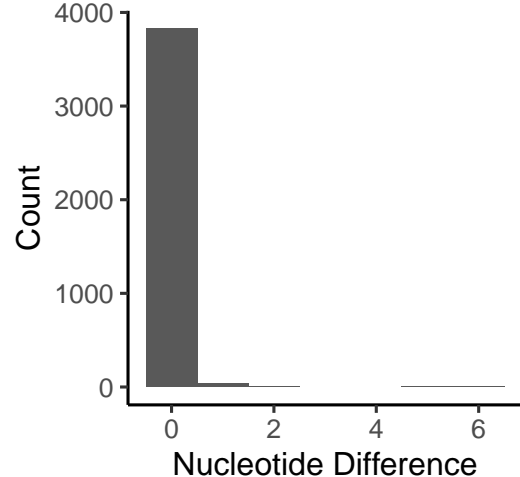
### TRBV6–56\*ap02

2058 sequences assigned  
1862 (90.5%) exact matches, in which:  
1810 unique CDR3  
13 unique J



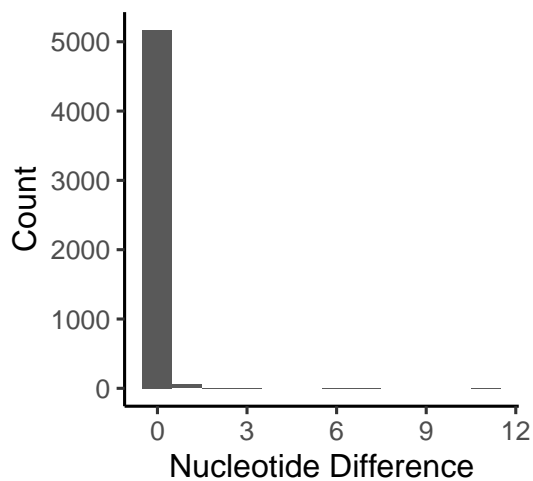
### TRBV7–3\*ap01

3865 sequences assigned  
3826 (99%) exact matches, in which:  
3781 unique CDR3  
13 unique J



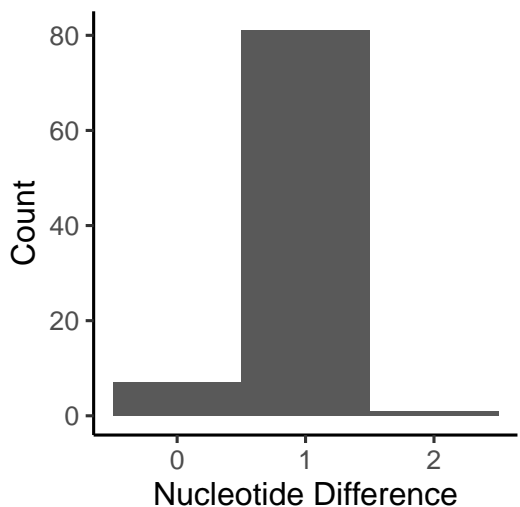
### TRBV6–23\*ap01

5233 sequences assigned  
5169 (98.8%) exact matches, in which:  
5018 unique CDR3  
13 unique J



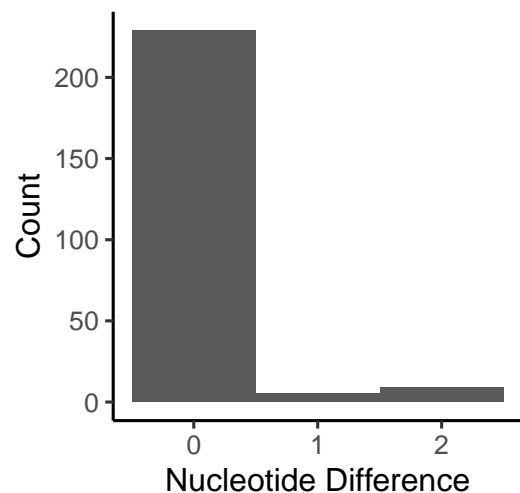
### TRBV7–1\*ap01\_T296C

89 sequences assigned  
7 (7.9%) exact matches, in which:  
7 unique CDR3  
4 unique J



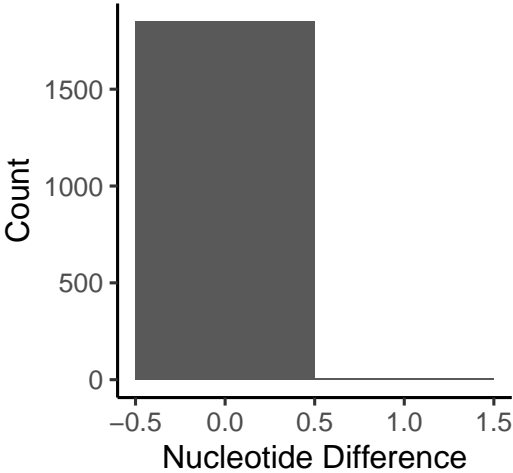
### TRBV7–4\*ap01

243 sequences assigned  
229 (94.2%) exact matches, in which:  
225 unique CDR3  
13 unique J



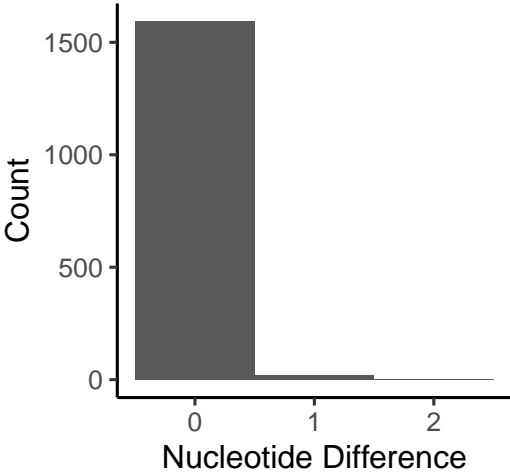
TRBV7-6\*ap01

1859 sequences assigned  
1850 (99.5%) exact matches, in which:  
1811 unique CDR3  
13 unique J



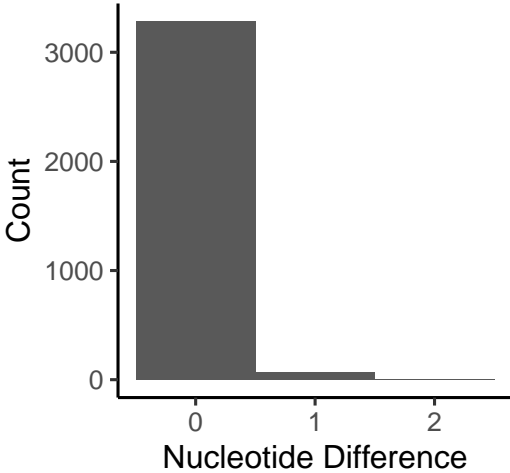
TRBV7-8\*ap01

1614 sequences assigned  
1593 (98.7%) exact matches, in which:  
1562 unique CDR3  
13 unique J



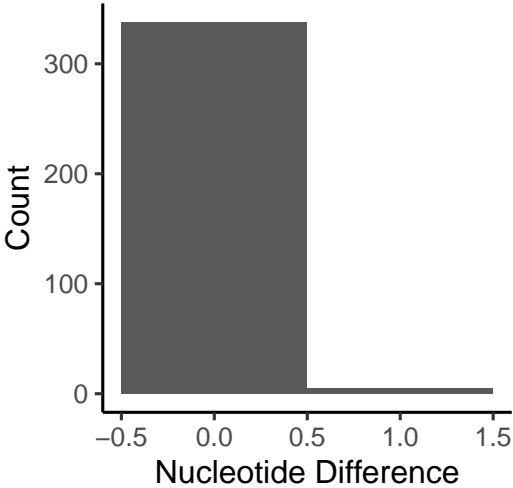
TRBV29-1\*ap01

3351 sequences assigned  
3283 (98%) exact matches, in which:  
3213 unique CDR3  
13 unique J



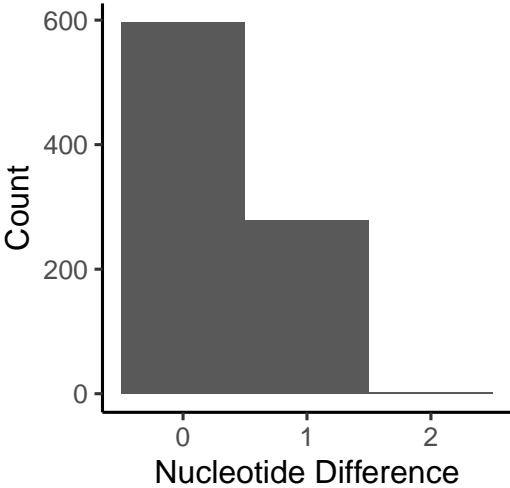
TRBV7-7\*ap01

343 sequences assigned  
338 (98.5%) exact matches, in which:  
331 unique CDR3  
13 unique J



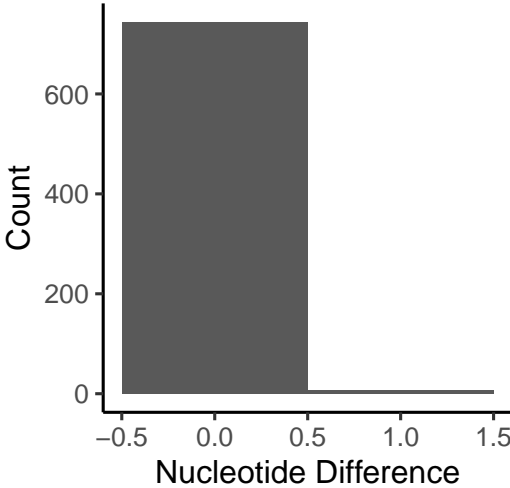
TRBV7-8\*ap03

877 sequences assigned  
597 (68.1%) exact matches, in which:  
589 unique CDR3  
13 unique J



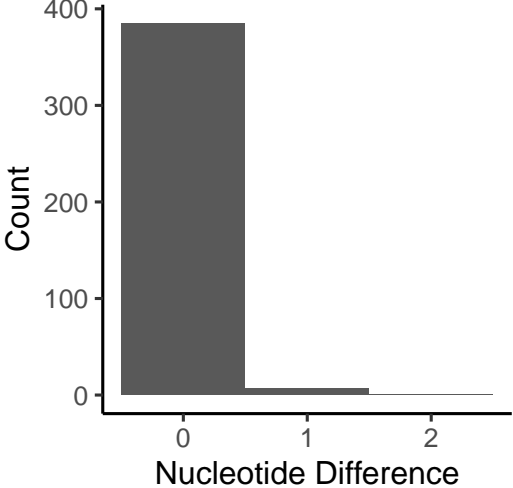
TRBV29-1\*ap02

752 sequences assigned  
744 (98.9%) exact matches, in which:  
723 unique CDR3  
13 unique J



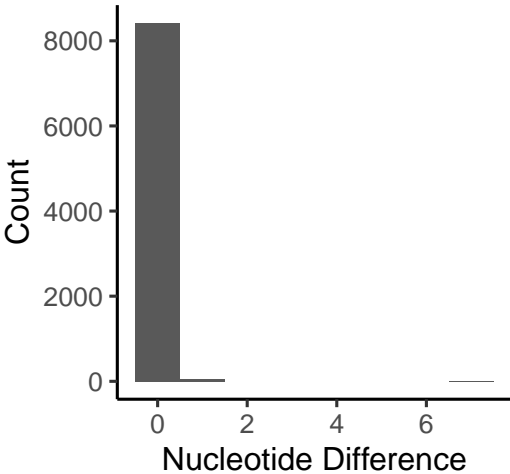
TRBV7-7\*ap01\_C315T

393 sequences assigned  
385 (98%) exact matches, in which:  
377 unique CDR3  
13 unique J

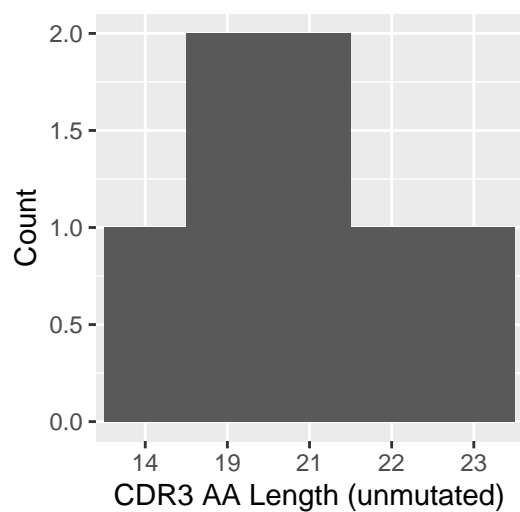


TRBV7-9\*ap01

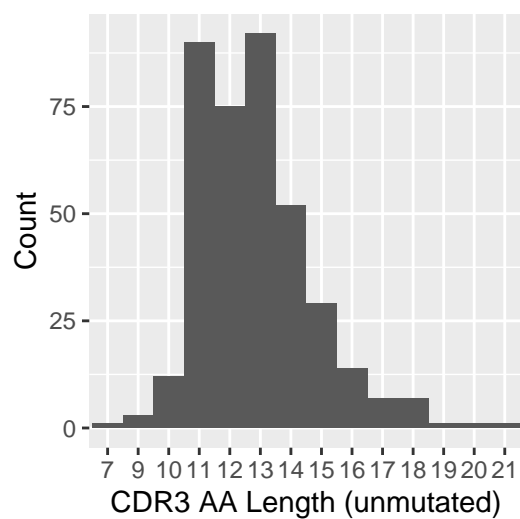
8474 sequences assigned  
8417 (99.3%) exact matches, in which:  
8297 unique CDR3  
13 unique J



TRBV7-1\*ap01\_T296C



TRBV7-7\*ap01\_C315T





[illegible]