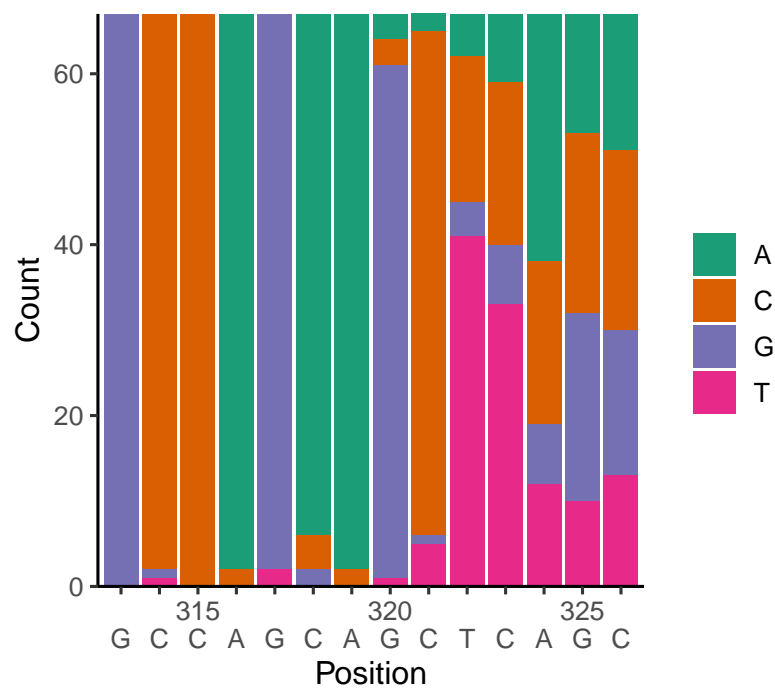
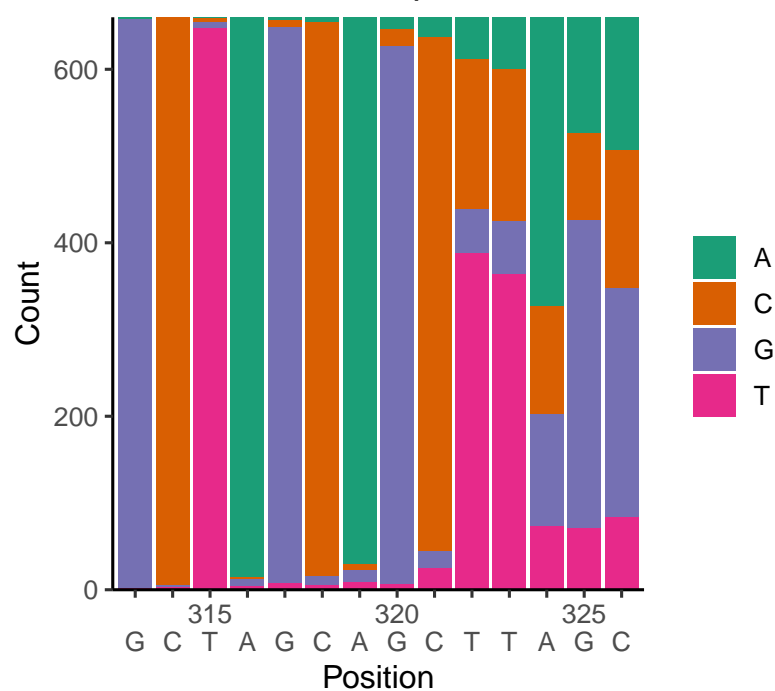


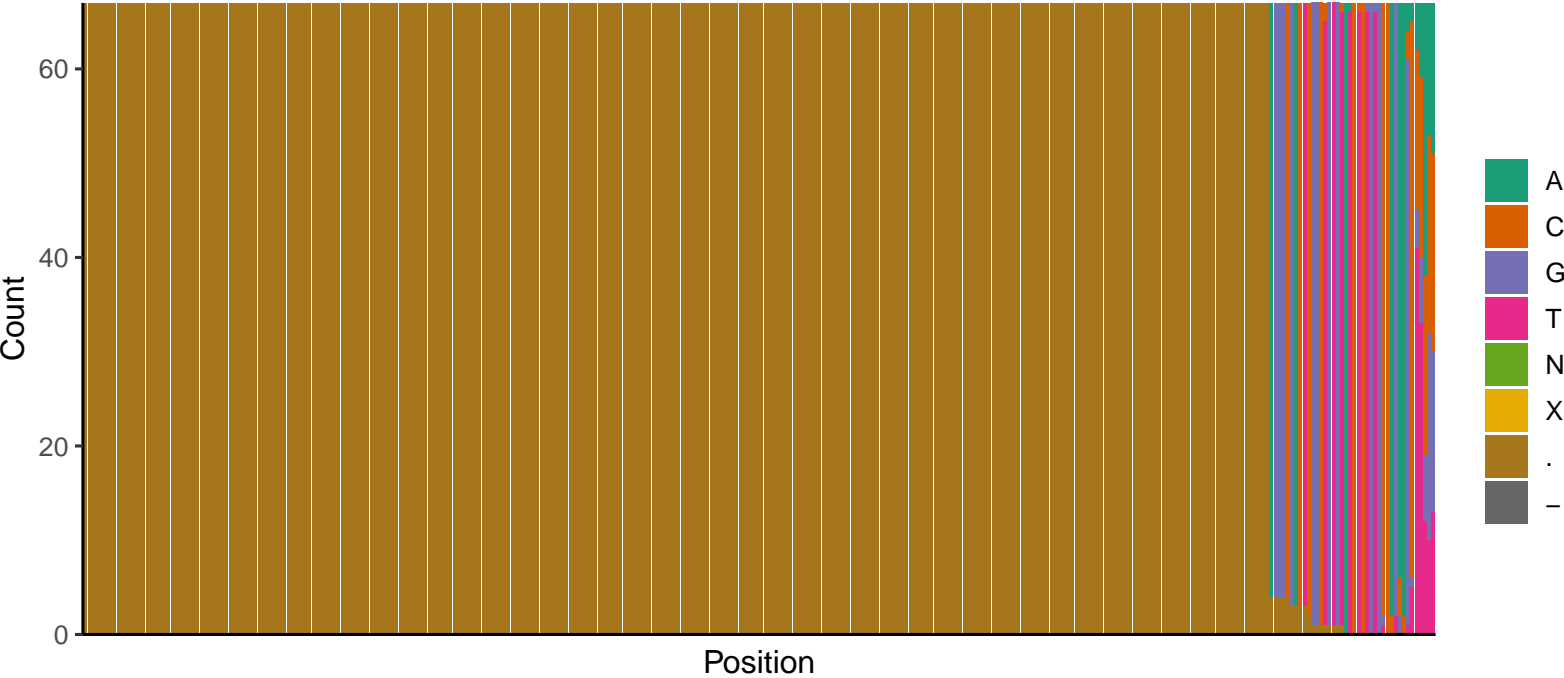
Gene TRBV7-1\*ap01\_G291C\_T296C



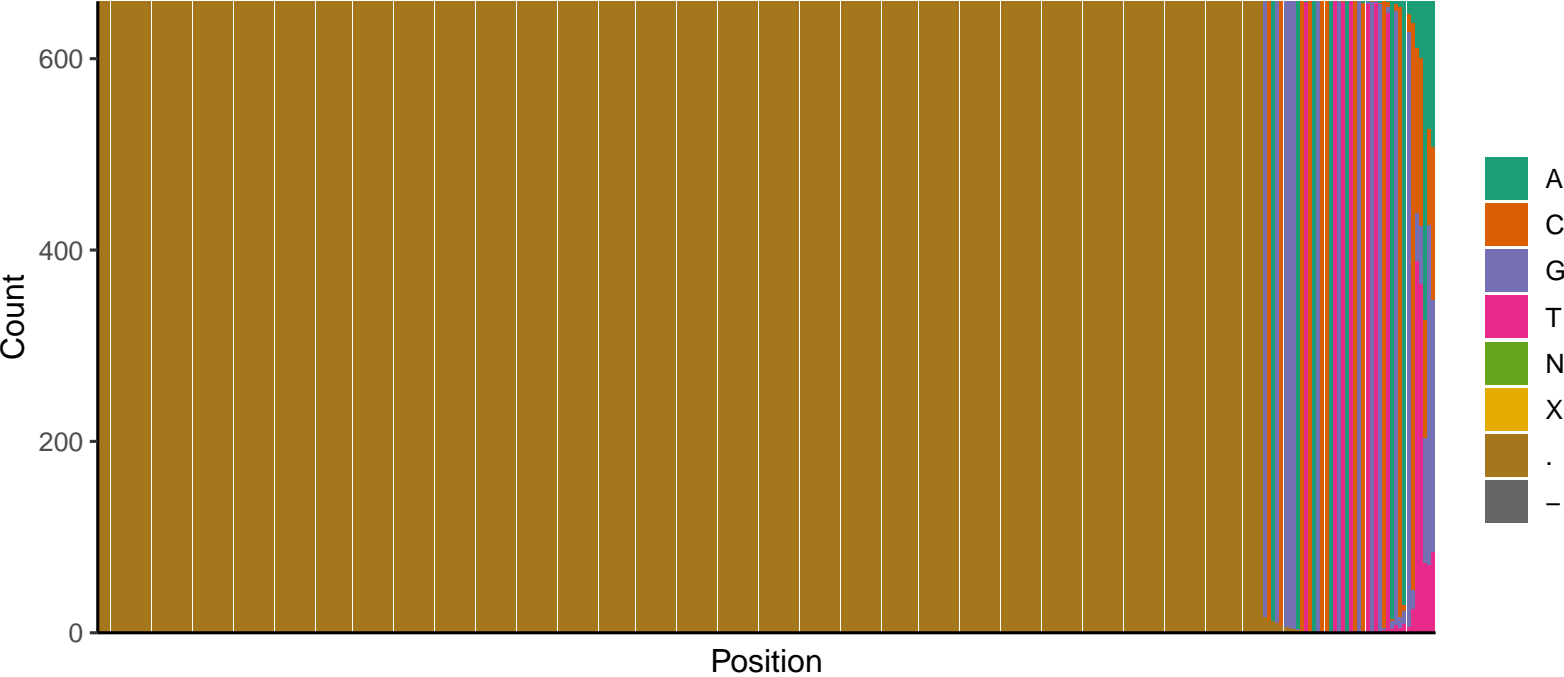
Gene TRBV7-7\*ap01\_C315T



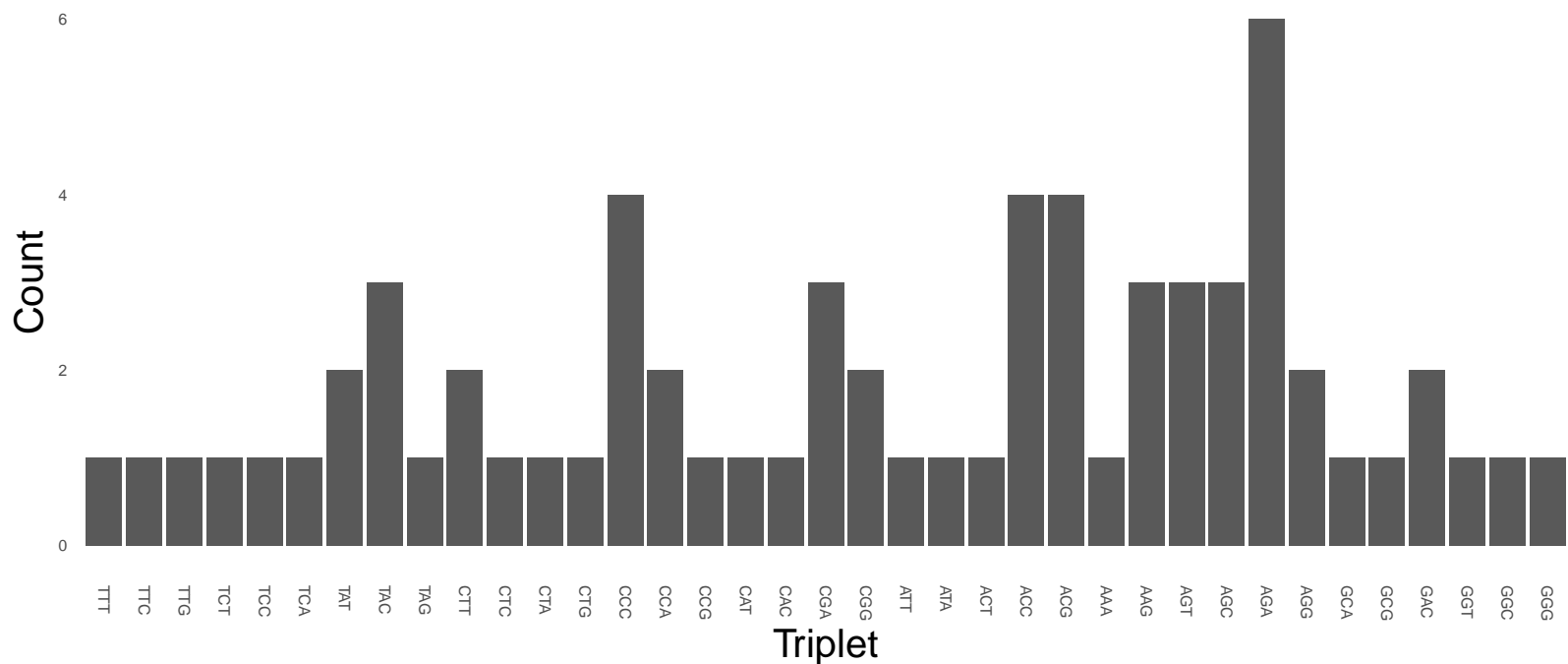
Gene TRBV7-1\*ap01\_G291C\_T296C



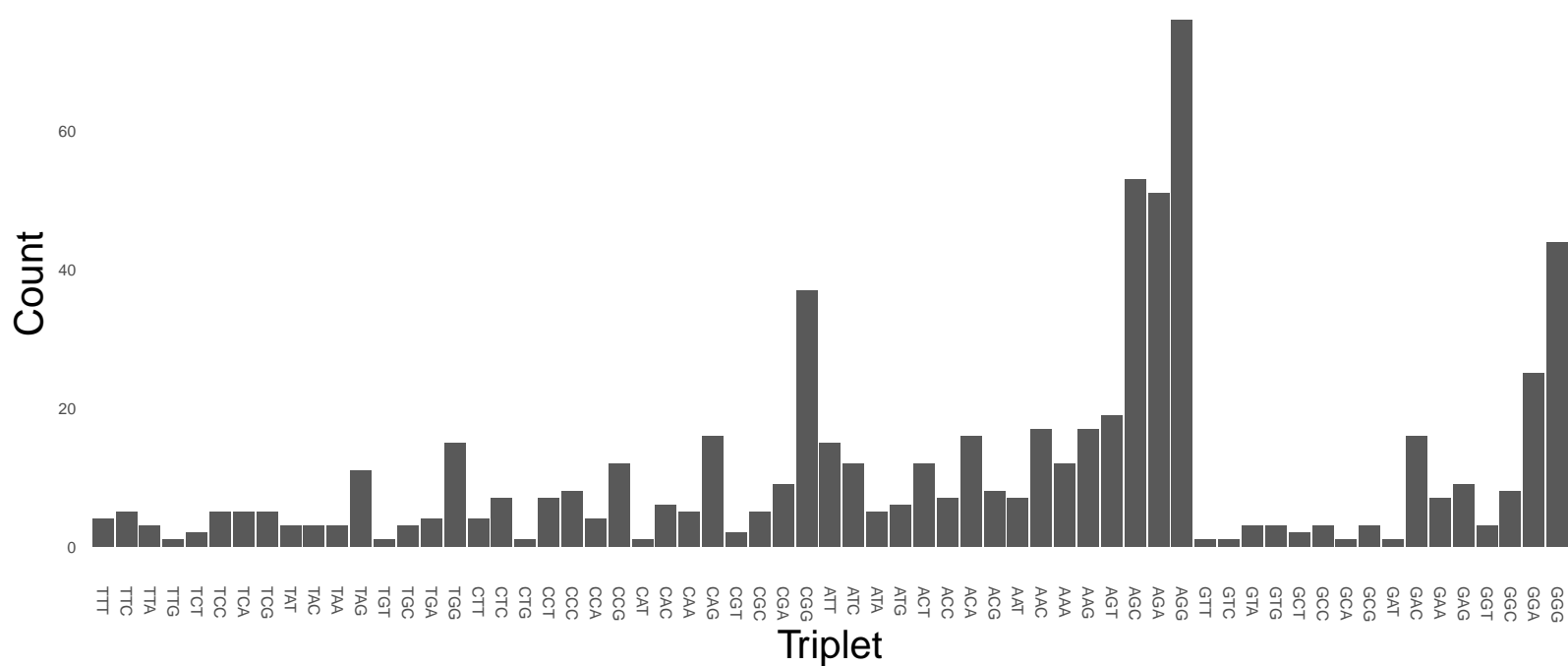
Gene TRBV7-7\*ap01\_C315T



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

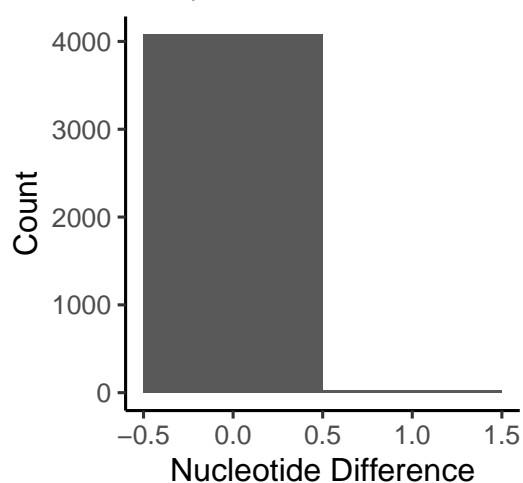


TRBV7-7\*ap01\_C315T- Final 3 nucleotides as a triplet



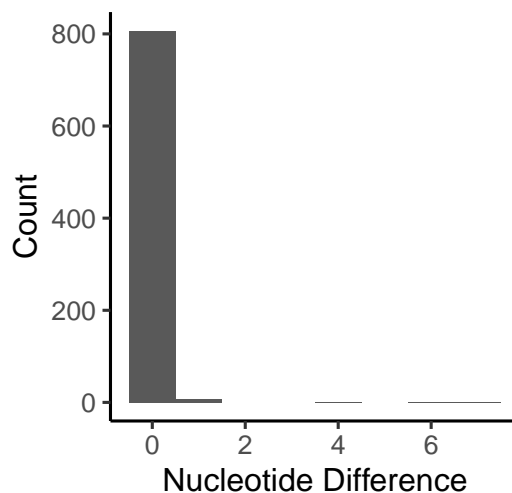
### TRBV20–1\*ap01

4110 sequences assigned  
4080 (99.3%) exact matches, in which:  
4058 unique CDR3  
13 unique J



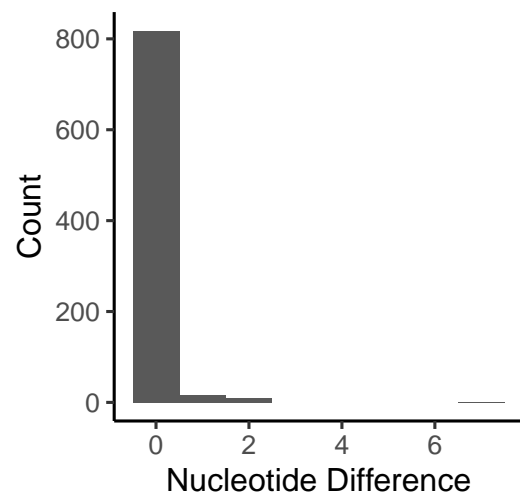
### TRBV10–2\*ap01

817 sequences assigned  
807 (98.8%) exact matches, in which:  
803 unique CDR3  
13 unique J



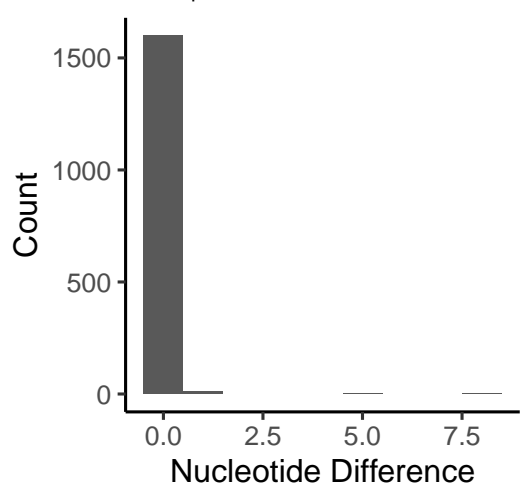
### TRBV13\*ap01

844 sequences assigned  
818 (96.9%) exact matches, in which:  
809 unique CDR3  
13 unique J



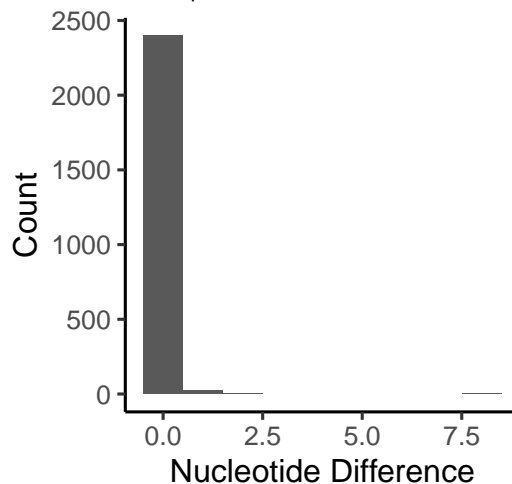
### TRBV10–1\*ap01

1612 sequences assigned  
1599 (99.2%) exact matches, in which:  
1580 unique CDR3  
13 unique J



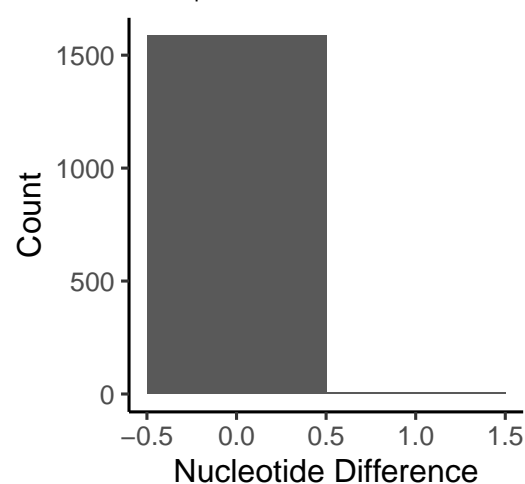
### TRBV10–3\*ap01

2422 sequences assigned  
2398 (99%) exact matches, in which:  
2372 unique CDR3  
13 unique J



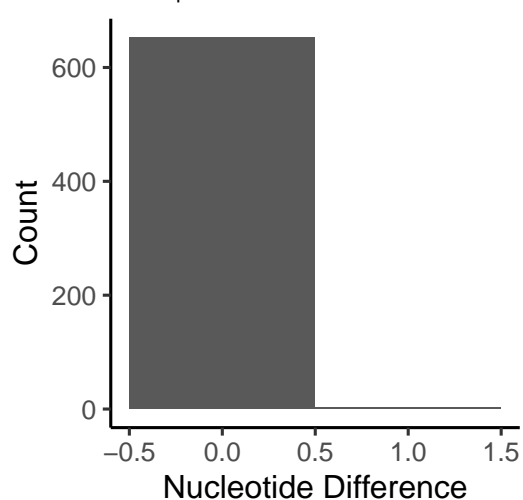
### TRBV14\*ap01

1592 sequences assigned  
1586 (99.6%) exact matches, in which:  
1578 unique CDR3  
13 unique J



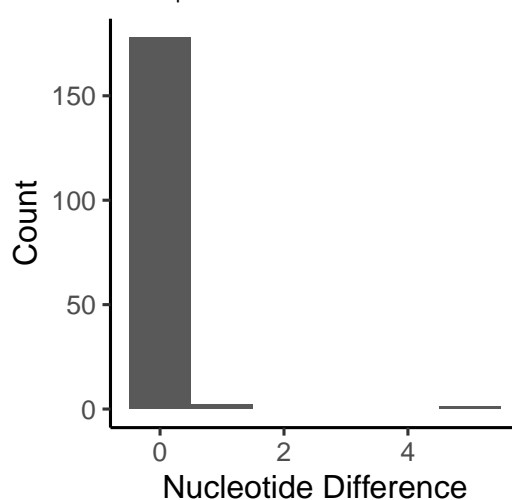
### TRBV20–1\*ap02

655 sequences assigned  
653 (99.7%) exact matches, in which:  
650 unique CDR3  
13 unique J



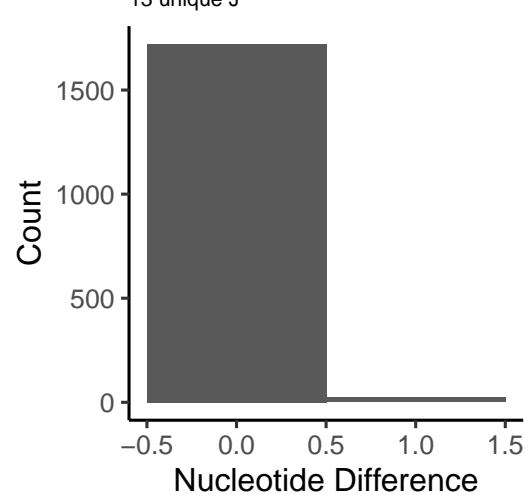
### TRBV1\*ap01

181 sequences assigned  
178 (98.3%) exact matches, in which:  
178 unique CDR3  
13 unique J



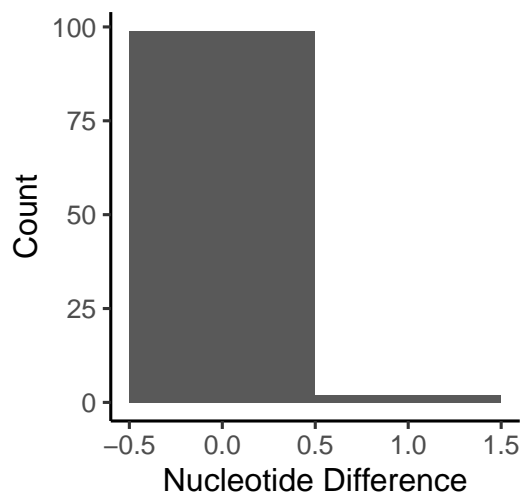
### TRBV15\*ap02

1744 sequences assigned  
1721 (98.7%) exact matches, in which:  
1705 unique CDR3  
13 unique J



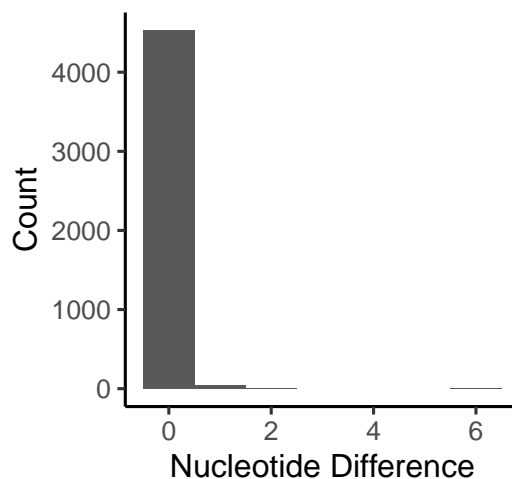
### TRBV16\*ap01

101 sequences assigned  
99 (98%) exact matches, in which:  
98 unique CDR3  
13 unique J



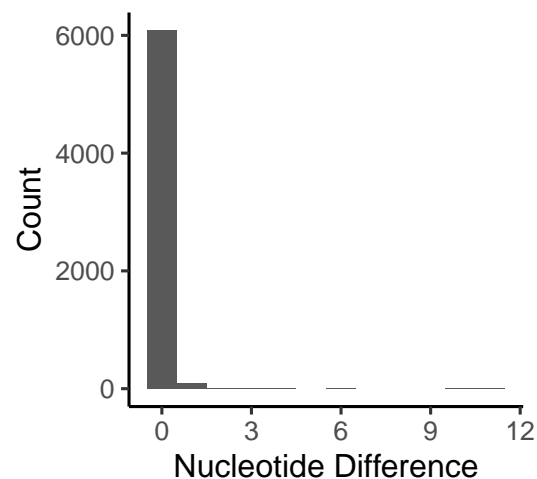
### TRBV2\*ap01

4572 sequences assigned  
4528 (99%) exact matches, in which:  
4483 unique CDR3  
13 unique J



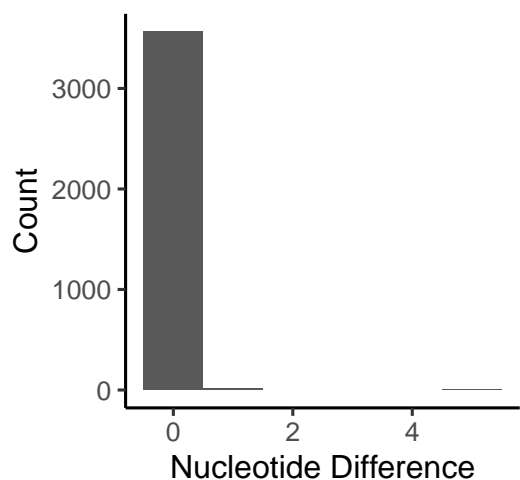
### TRBV30\*ap01

6193 sequences assigned  
6084 (98.2%) exact matches, in which:  
5976 unique CDR3  
13 unique J



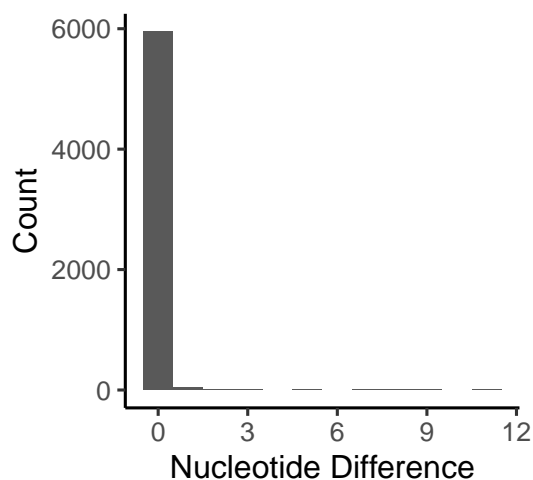
### TRBV18\*ap01

3578 sequences assigned  
3564 (99.6%) exact matches, in which:  
3552 unique CDR3  
13 unique J



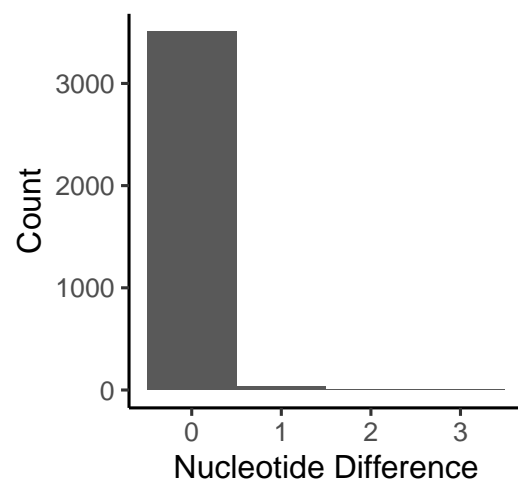
### TRBV27\*ap01

6001 sequences assigned  
5950 (99.2%) exact matches, in which:  
5905 unique CDR3  
13 unique J



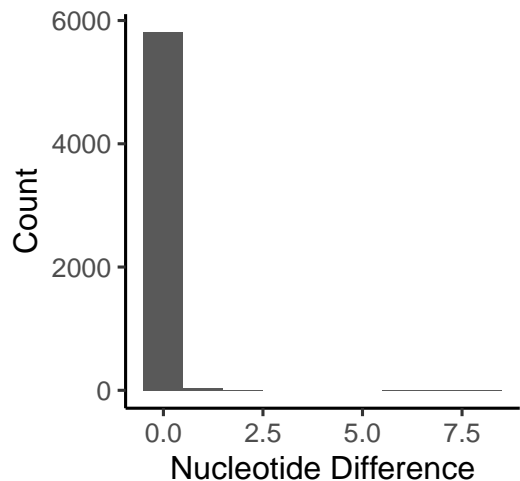
### TRBV9\*ap01

3547 sequences assigned  
3506 (98.8%) exact matches, in which:  
3482 unique CDR3  
13 unique J



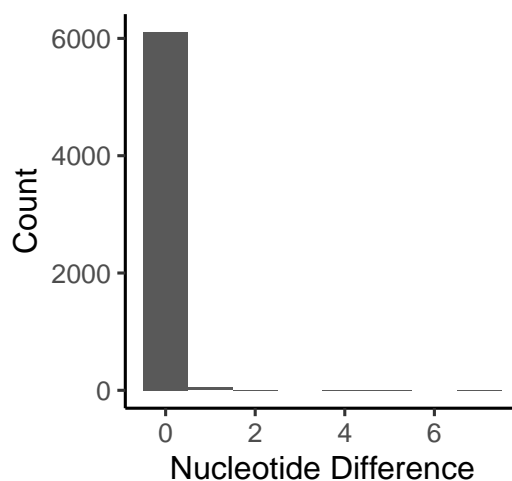
### TRBV19\*ap01

5852 sequences assigned  
5813 (99.3%) exact matches, in which:  
5786 unique CDR3  
13 unique J



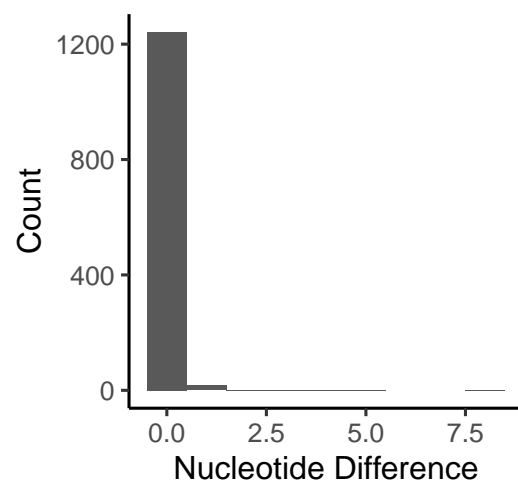
### TRBV28\*ap01

6164 sequences assigned  
6108 (99.1%) exact matches, in which:  
6074 unique CDR3  
13 unique J



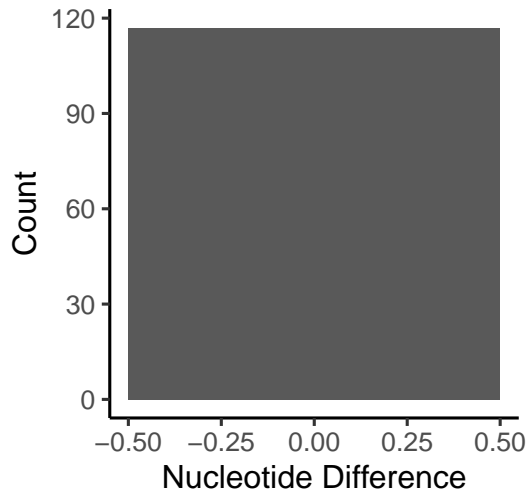
### TRBV21-1\*ap01

1267 sequences assigned  
1242 (98%) exact matches, in which:  
1240 unique CDR3  
13 unique J



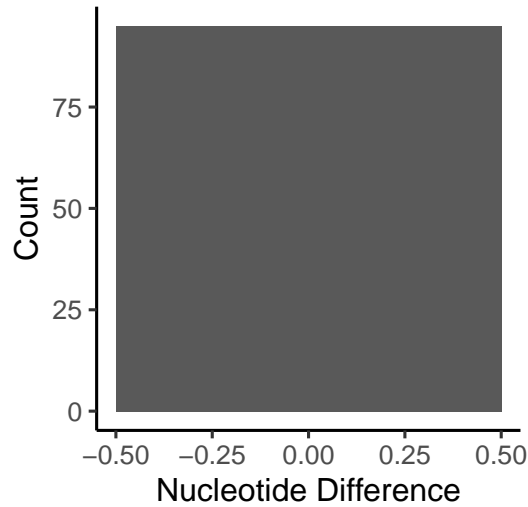
### TRBV11-1\*ap01

117 sequences assigned  
117 (100%) exact matches, in which:  
117 unique CDR3  
13 unique J



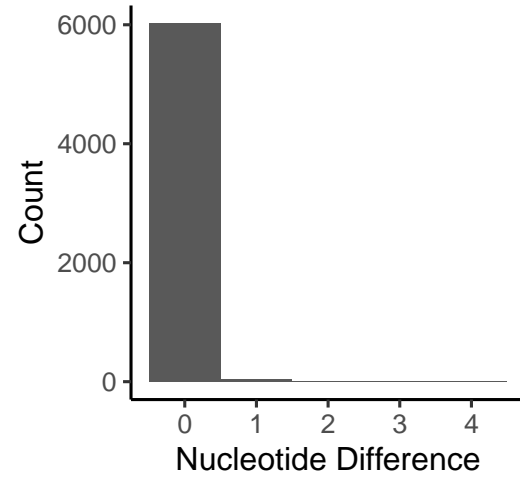
### TRBV12-1\*ap01

95 sequences assigned  
95 (100%) exact matches, in which:  
95 unique CDR3  
13 unique J



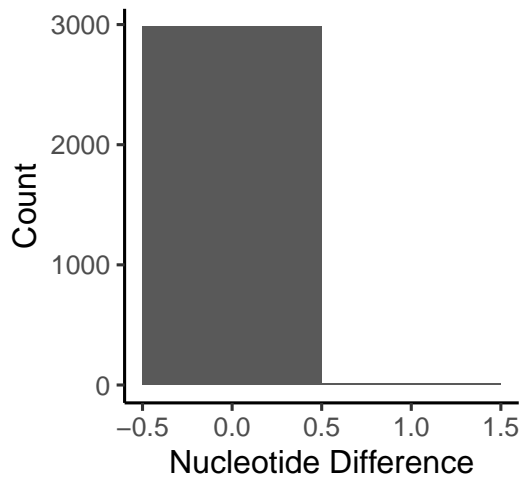
### TRBV12-34\*ap01

6075 sequences assigned  
6023 (99.1%) exact matches, in which:  
5974 unique CDR3  
13 unique J



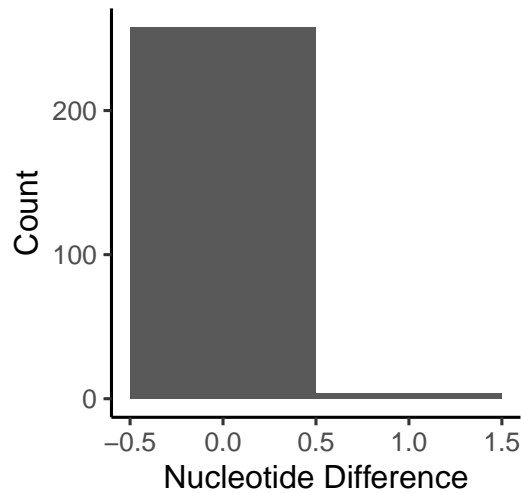
### TRBV11-2\*ap01

2996 sequences assigned  
2982 (99.5%) exact matches, in which:  
2975 unique CDR3  
13 unique J



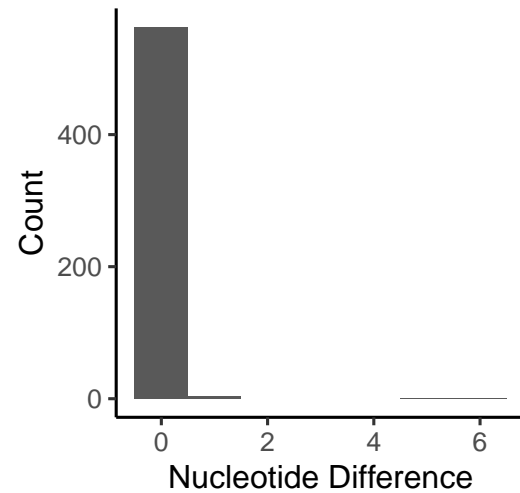
### TRBV12-2\*ap01

262 sequences assigned  
258 (98.5%) exact matches, in which:  
257 unique CDR3  
13 unique J



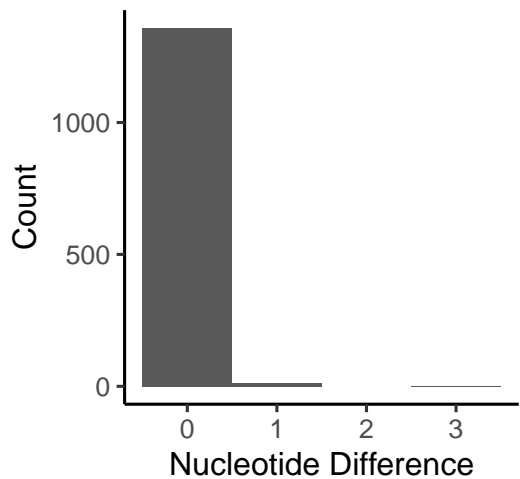
### TRBV23-1\*ap01

569 sequences assigned  
563 (98.9%) exact matches, in which:  
557 unique CDR3  
13 unique J



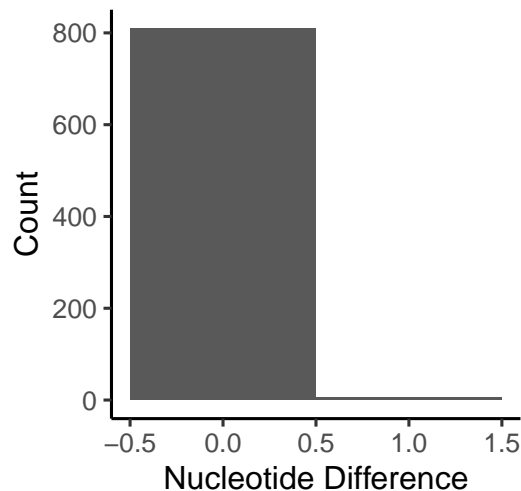
### TRBV11-3\*ap01

1372 sequences assigned  
1358 (99%) exact matches, in which:  
1357 unique CDR3  
13 unique J



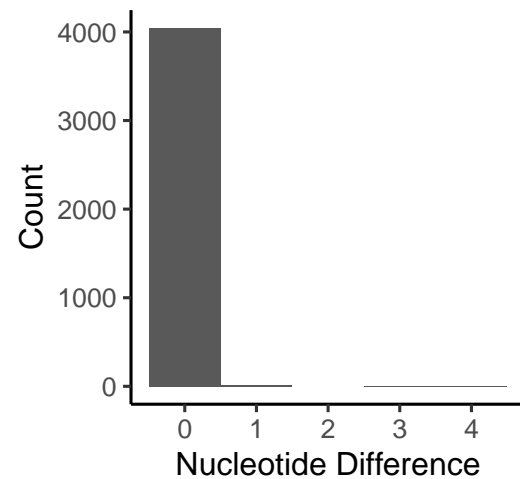
### TRBV12-5\*ap01

816 sequences assigned  
810 (99.3%) exact matches, in which:  
806 unique CDR3  
13 unique J



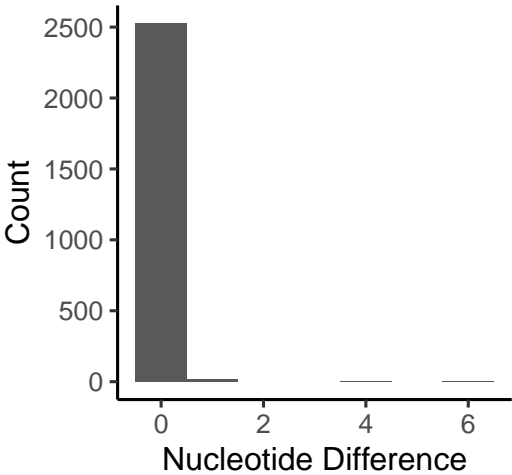
### TRBV3-12\*ap01

4065 sequences assigned  
4044 (99.5%) exact matches, in which:  
4031 unique CDR3  
13 unique J



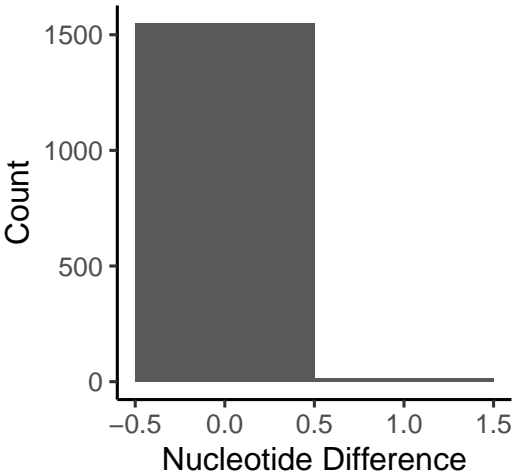
TRBV4-1\*ap01

2547 sequences assigned  
2526 (99.2%) exact matches, in which:  
2499 unique CDR3  
13 unique J



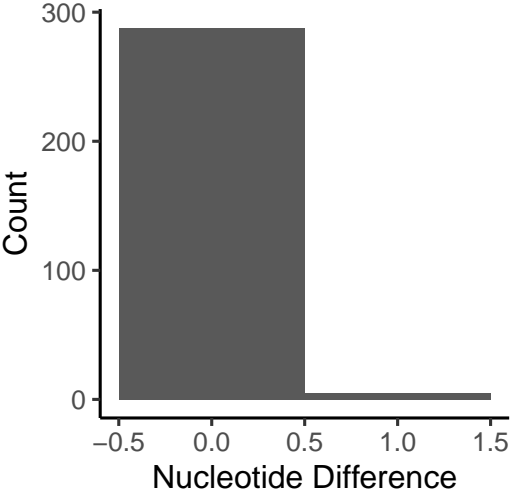
TRBV4-3\*ap01

1563 sequences assigned  
1549 (99.1%) exact matches, in which:  
1528 unique CDR3  
13 unique J



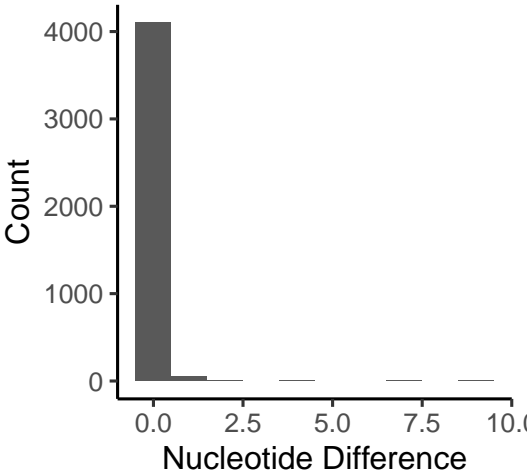
TRBV5-3\*ap01

293 sequences assigned  
288 (98.3%) exact matches, in which:  
287 unique CDR3  
13 unique J



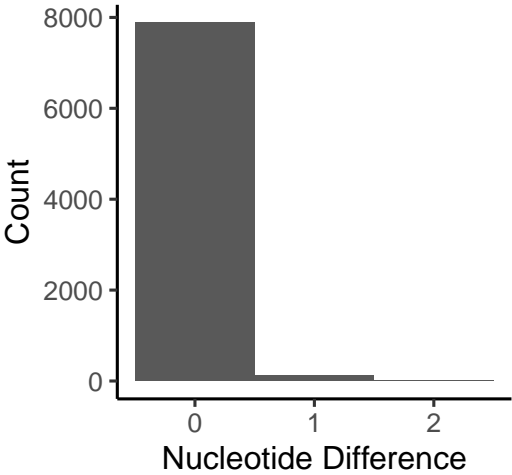
TRBV24-1\*ap01

4162 sequences assigned  
4101 (98.5%) exact matches, in which:  
4057 unique CDR3  
13 unique J



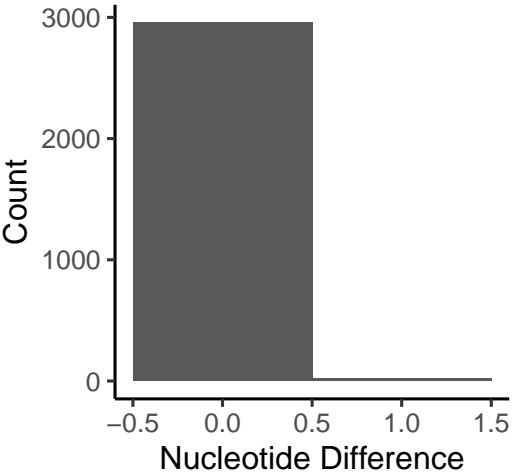
TRBV5-1\*ap01

7995 sequences assigned  
7883 (98.6%) exact matches, in which:  
7800 unique CDR3  
13 unique J



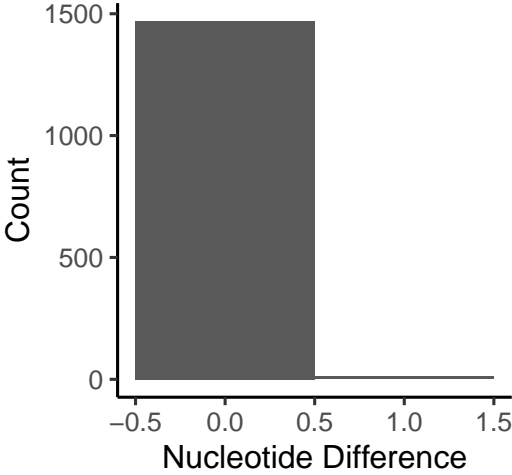
TRBV5-4\*ap01

2980 sequences assigned  
2956 (99.2%) exact matches, in which:  
2933 unique CDR3  
13 unique J



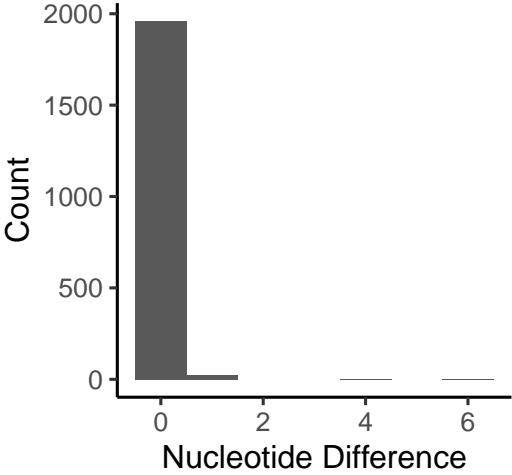
TRBV4-2\*ap01

1482 sequences assigned  
1470 (99.2%) exact matches, in which:  
1460 unique CDR3  
13 unique J



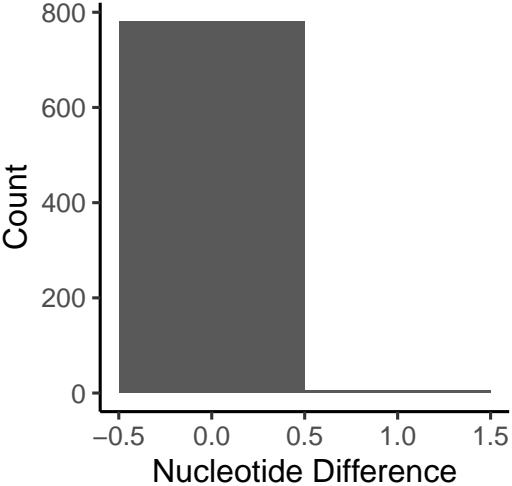
TRBV25-1\*ap01

1986 sequences assigned  
1960 (98.7%) exact matches, in which:  
1930 unique CDR3  
13 unique J



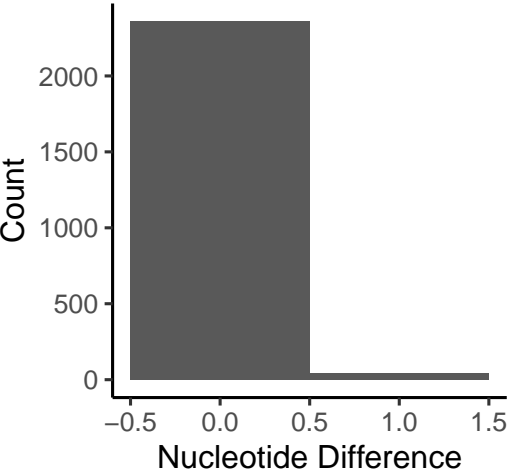
TRBV5-5\*ap01

787 sequences assigned  
781 (99.2%) exact matches, in which:  
777 unique CDR3  
13 unique J



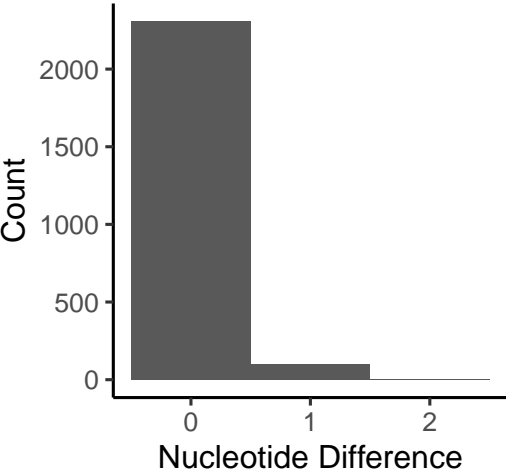
TRBV5-6\*ap01

2399 sequences assigned  
2359 (98.3%) exact matches, in which:  
2331 unique CDR3  
14 unique J



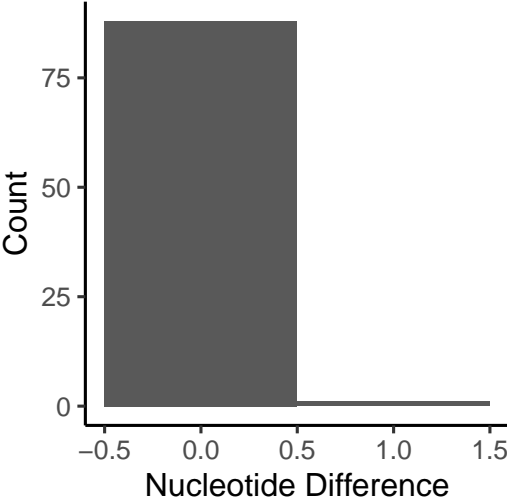
TRBV6-1\*ap01

2405 sequences assigned  
2307 (95.9%) exact matches, in which:  
2277 unique CDR3  
13 unique J



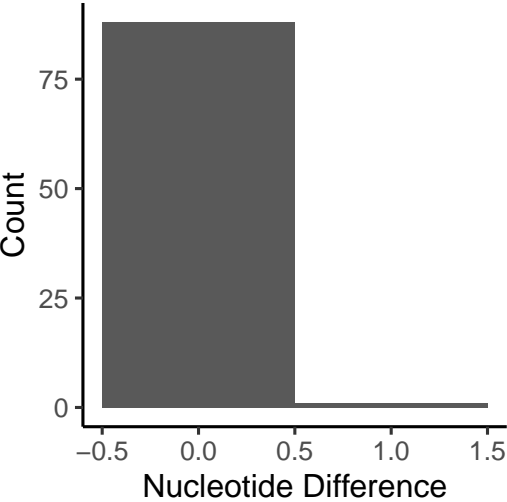
TRBV6-8\*ap01

89 sequences assigned  
88 (98.9%) exact matches, in which:  
86 unique CDR3  
12 unique J



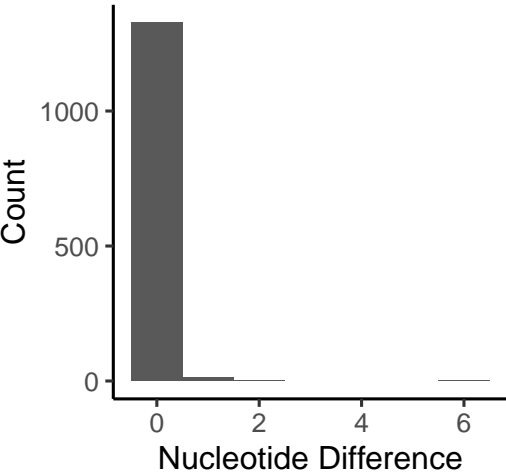
TRBV5-7\*ap01

89 sequences assigned  
88 (98.9%) exact matches, in which:  
85 unique CDR3  
13 unique J



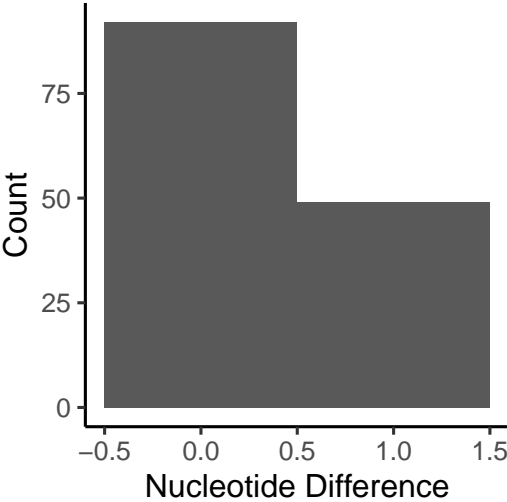
TRBV6-4\*ap01

1345 sequences assigned  
1327 (98.7%) exact matches, in which:  
1317 unique CDR3  
13 unique J



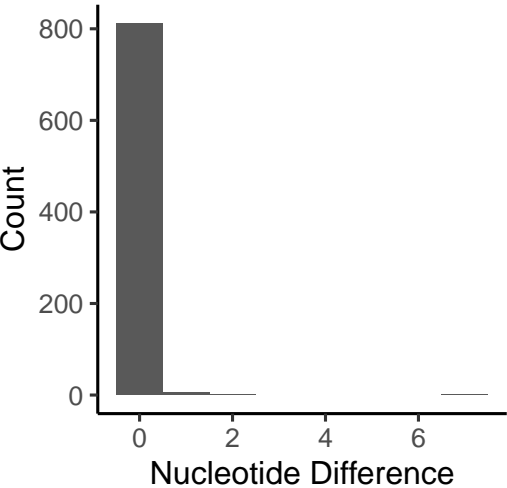
TRBV6-9\*ap01

141 sequences assigned  
92 (65.2%) exact matches, in which:  
91 unique CDR3  
12 unique J



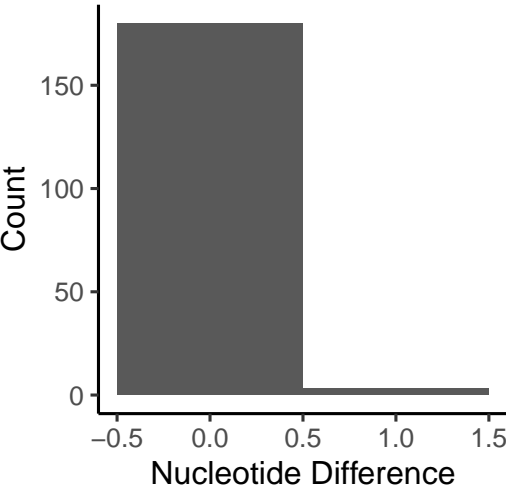
TRBV5-8\*ap01

820 sequences assigned  
812 (99%) exact matches, in which:  
808 unique CDR3  
13 unique J



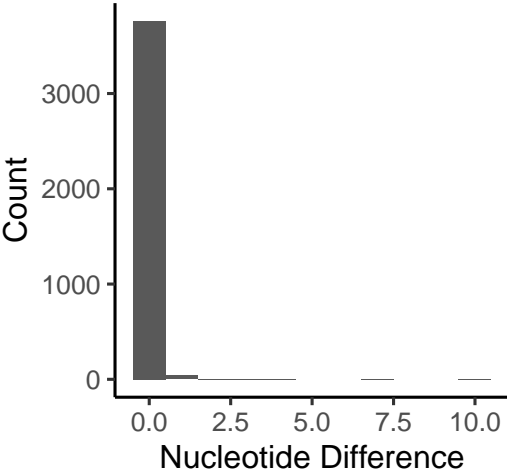
TRBV6-7\*ap01

183 sequences assigned  
180 (98.4%) exact matches, in which:  
177 unique CDR3  
13 unique J



TRBV6-23\*ap01

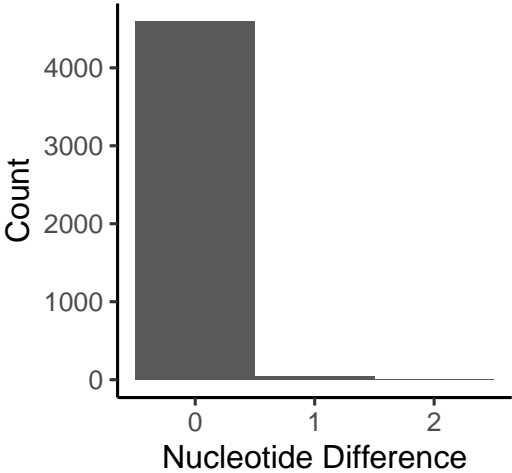
3809 sequences assigned  
3761 (98.7%) exact matches, in which:  
3700 unique CDR3  
13 unique J





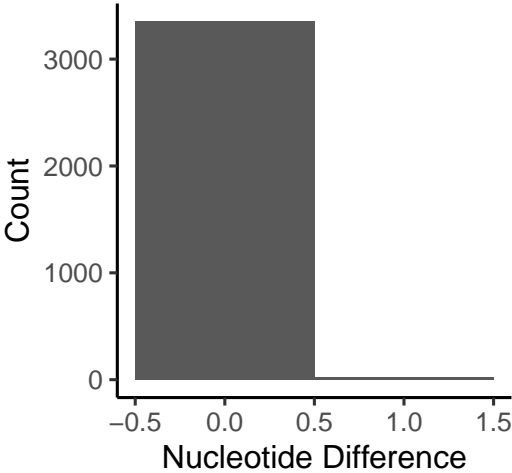
TRBV6-56\*ap01

4641 sequences assigned  
4595 (99%) exact matches, in which:  
4528 unique CDR3  
13 unique J



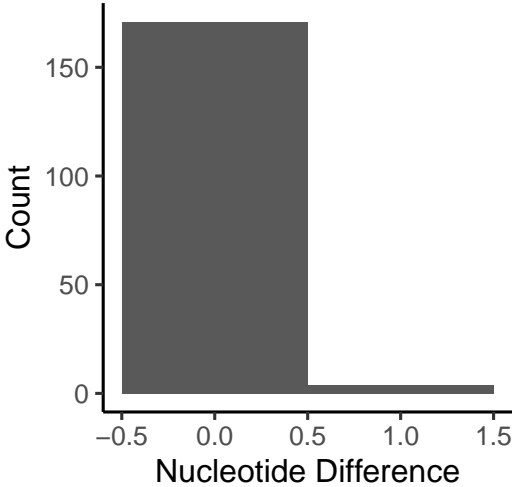
TRBV7-2\*ap01

3374 sequences assigned  
3353 (99.4%) exact matches, in which:  
3336 unique CDR3  
13 unique J



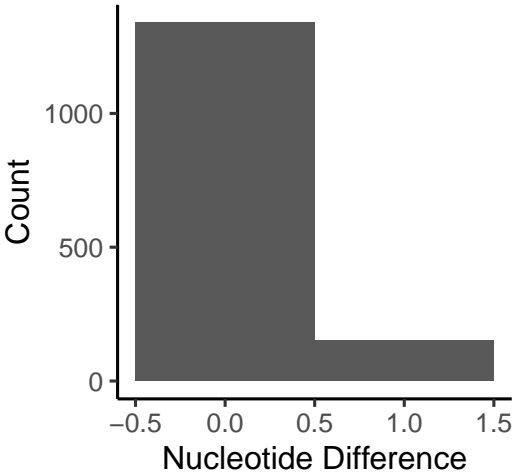
TRBV7-4\*ap01

175 sequences assigned  
171 (97.7%) exact matches, in which:  
169 unique CDR3  
12 unique J



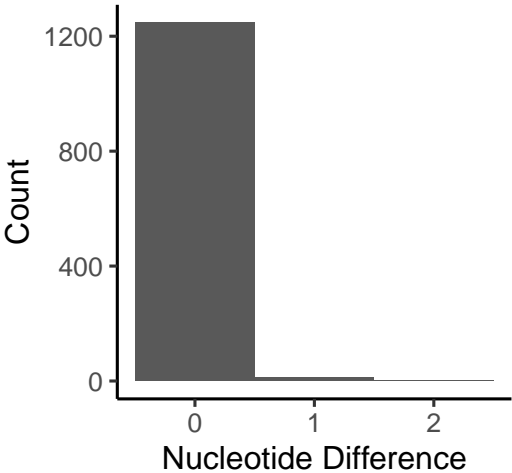
TRBV6-56\*ap02

1492 sequences assigned  
1339 (89.7%) exact matches, in which:  
1315 unique CDR3  
13 unique J



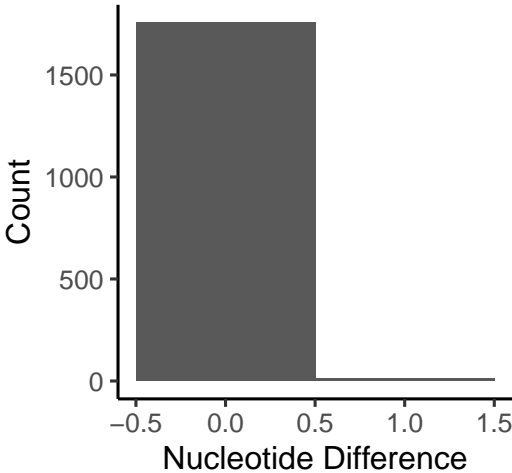
TRBV7-3\*ap01

1260 sequences assigned  
1247 (99%) exact matches, in which:  
1240 unique CDR3  
13 unique J



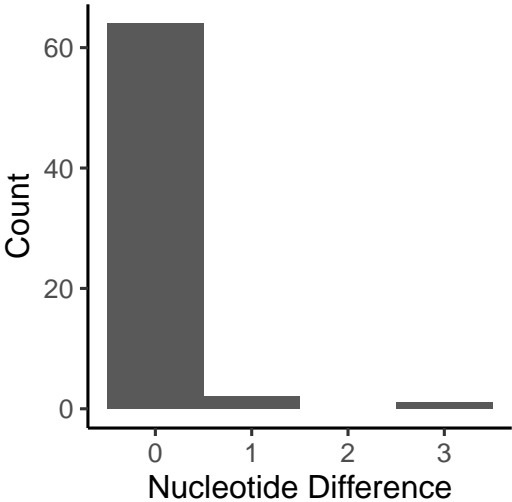
TRBV7-6\*ap01

1766 sequences assigned  
1756 (99.4%) exact matches, in which:  
1743 unique CDR3  
13 unique J



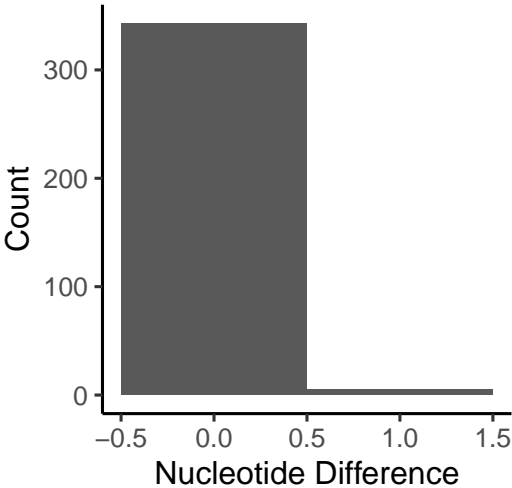
TRBV7-1\*ap01\_G291C\_T

67 sequences assigned  
64 (95.5%) exact matches, in which:  
64 unique CDR3  
12 unique J



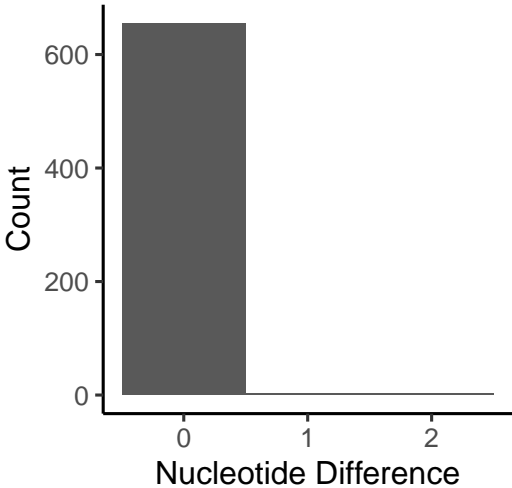
TRBV7-3\*ap03

348 sequences assigned  
343 (98.6%) exact matches, in which:  
340 unique CDR3  
12 unique J



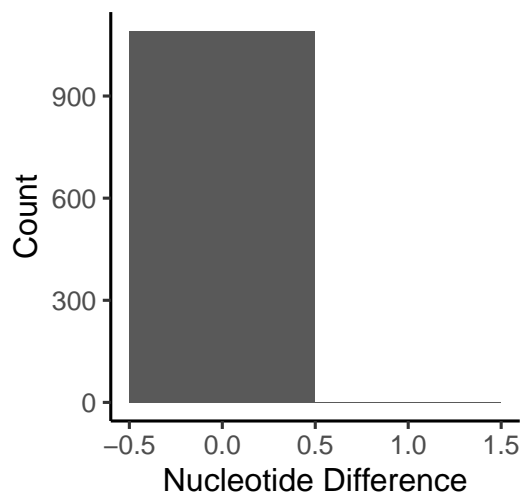
TRBV7-7\*ap01\_C315T

660 sequences assigned  
655 (99.2%) exact matches, in which:  
650 unique CDR3  
13 unique J



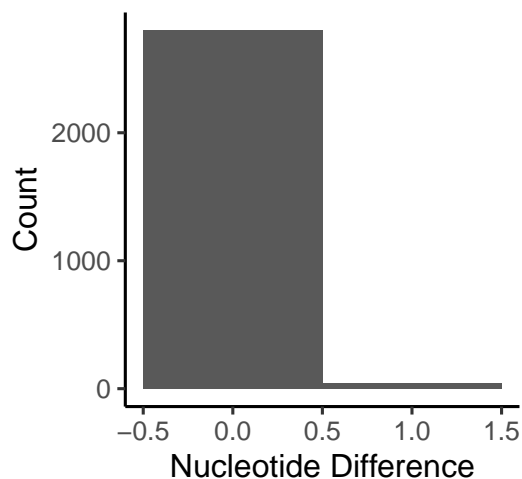
### TRBV7-8\*ap01

1094 sequences assigned  
1092 (99.8%) exact matches, in which:  
1088 unique CDR3  
13 unique J



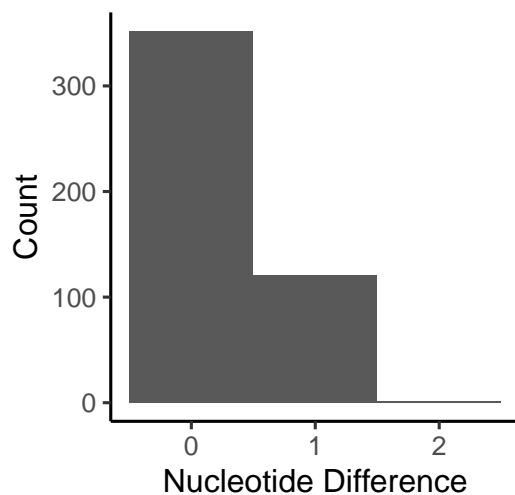
### TRBV29-1\*ap01

2845 sequences assigned  
2800 (98.4%) exact matches, in which:  
2747 unique CDR3  
13 unique J



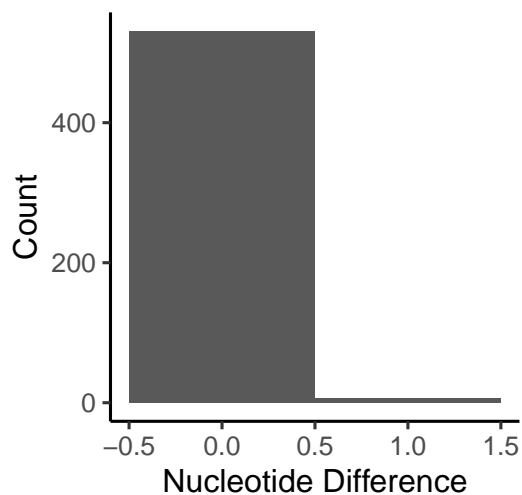
### TRBV7-8\*ap03

474 sequences assigned  
352 (74.3%) exact matches, in which:  
352 unique CDR3  
13 unique J



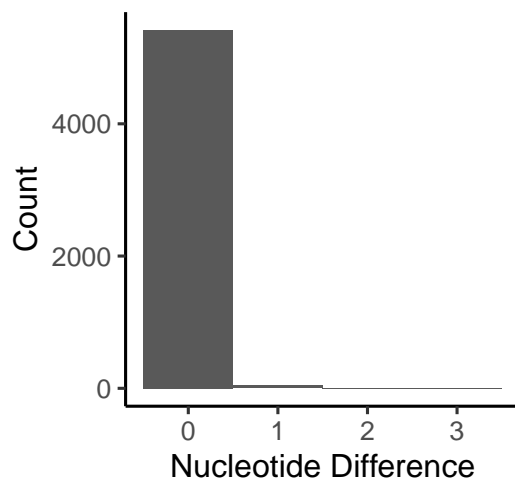
### TRBV29-1\*ap02

538 sequences assigned  
531 (98.7%) exact matches, in which:  
525 unique CDR3  
13 unique J

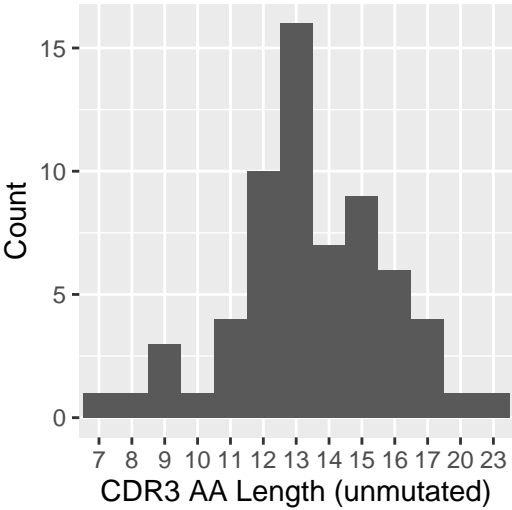


### TRBV7-9\*ap01

5465 sequences assigned  
5418 (99.1%) exact matches, in which:  
5382 unique CDR3  
13 unique J



TRBV7-1\*ap01\_G291C\_T296C



TRBV7-7\*ap01\_C315T

