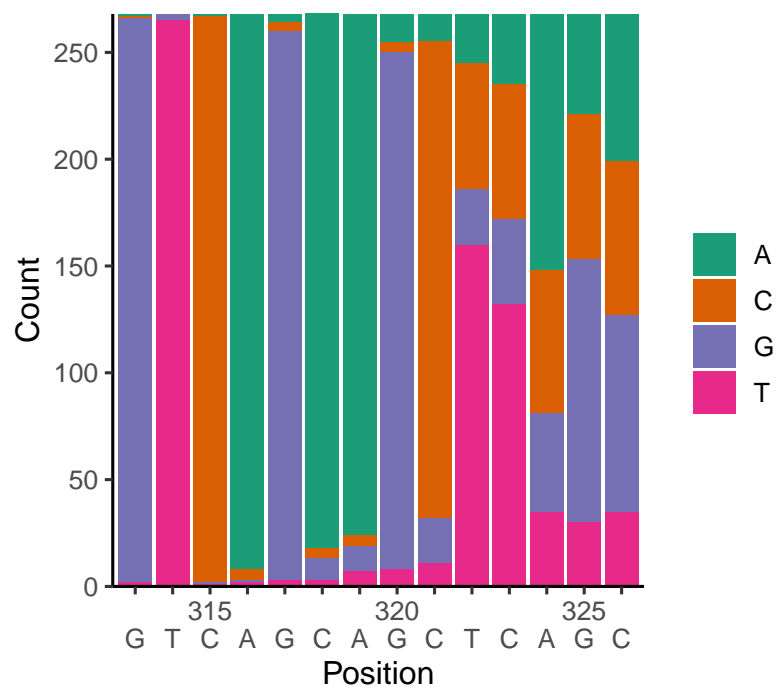
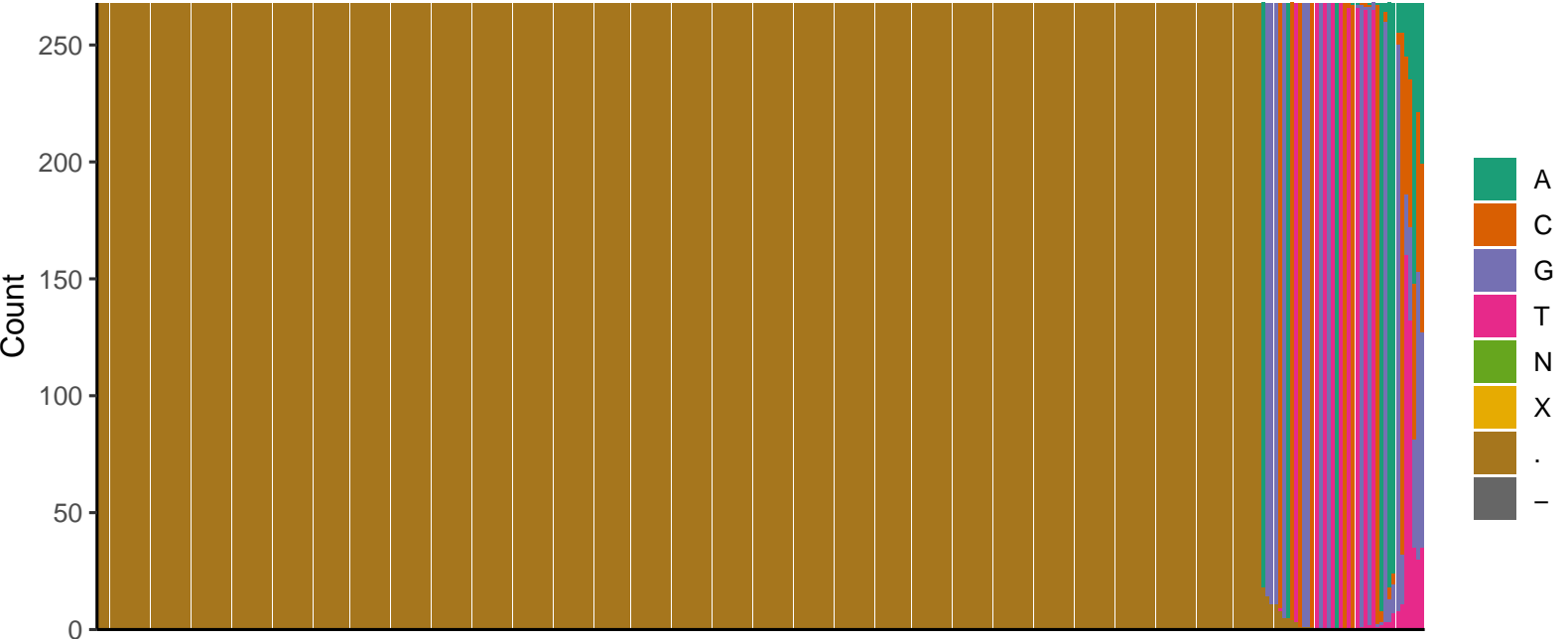


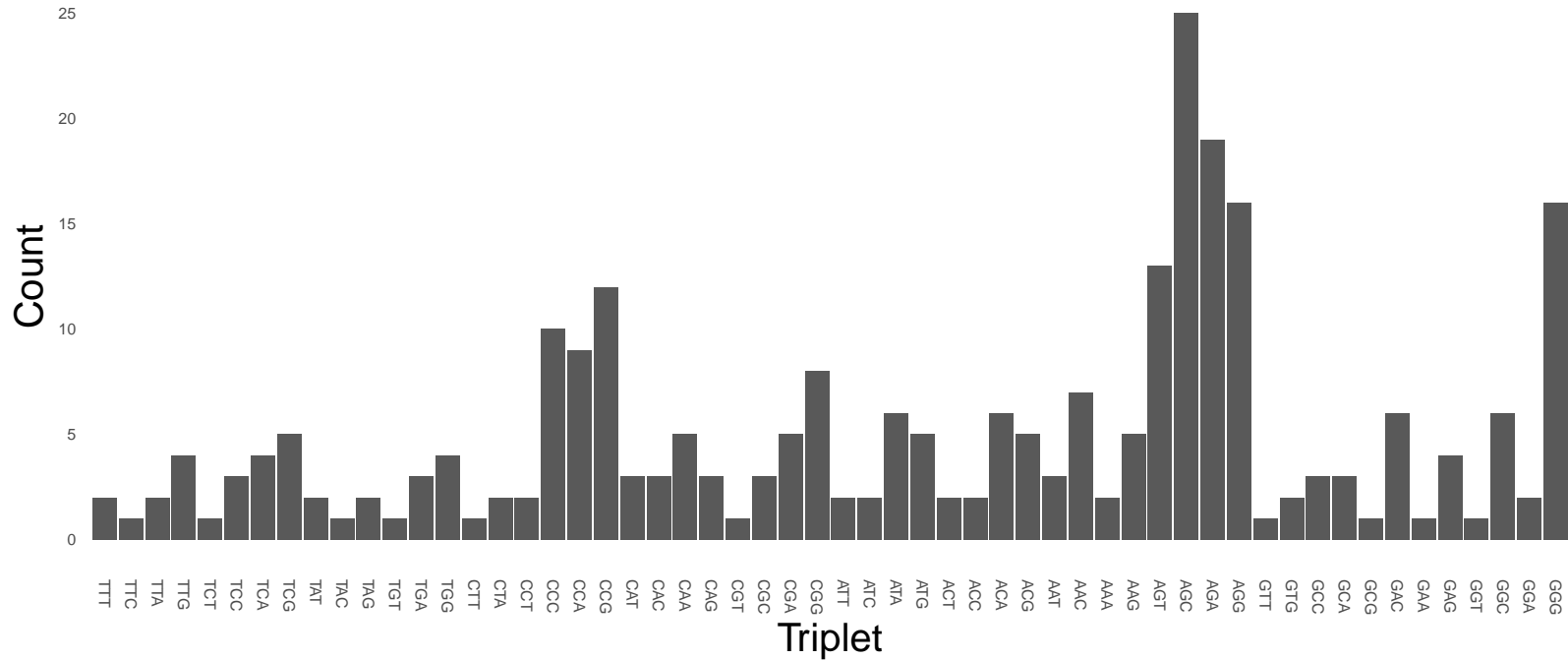
315 320 325
G T C A G C A G C T C A G C
Position



Gene TRBV7-1*ap01_G291C_T296C_C314T

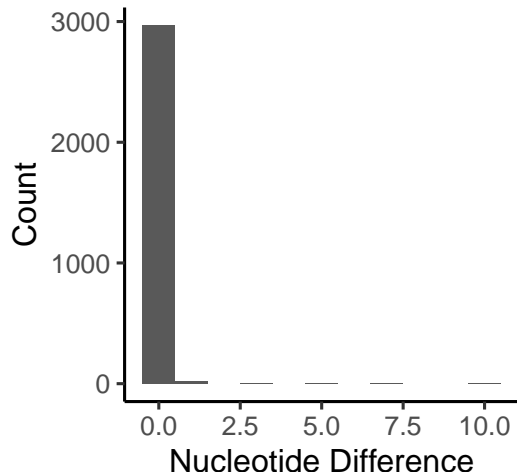


TRBV7-1*ap01_G291C_T296C_C314T- Final 3 nucleotides as a triplet



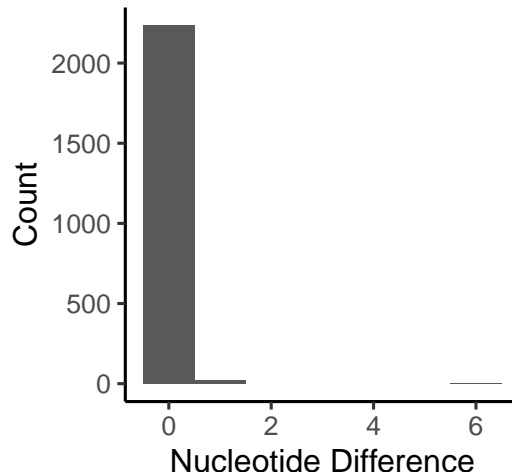
TRBV10-1*ap01

2992 sequences assigned
2968 (99.2%) exact matches, in which:
2918 unique CDR3
13 unique J



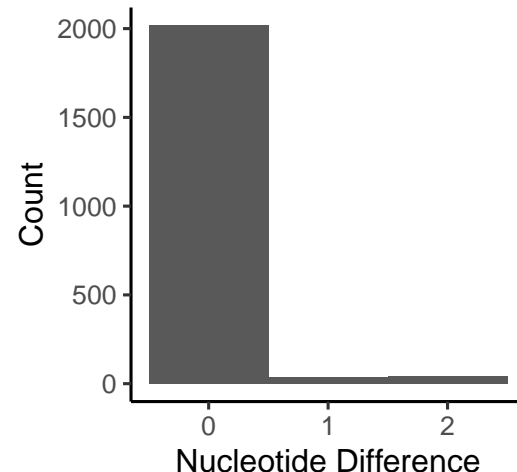
TRBV10-2*ap01

2257 sequences assigned
2235 (99%) exact matches, in which:
2191 unique CDR3
13 unique J



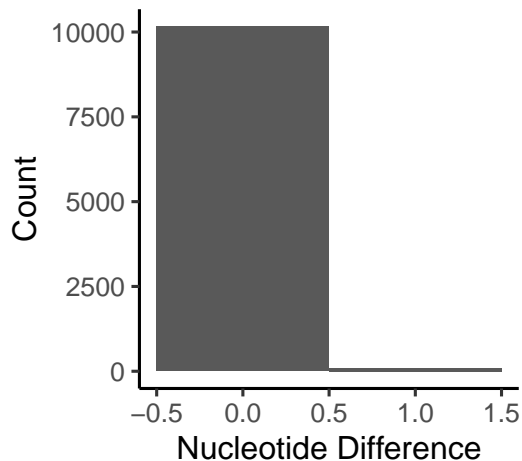
TRBV13*ap01

2093 sequences assigned
2018 (96.4%) exact matches, in which:
1953 unique CDR3
13 unique J



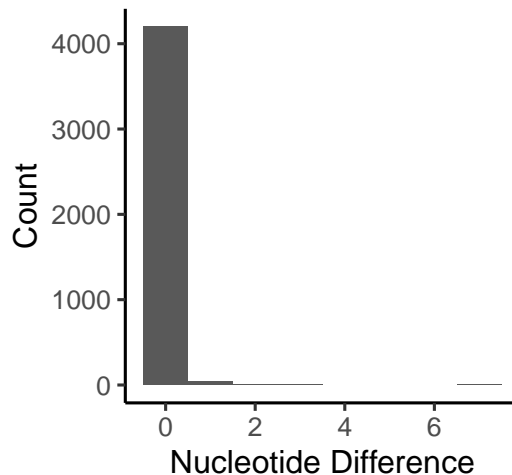
TRBV20-1*ap01

10253 sequences assigned
10164 (99.1%) exact matches, in which:
10034 unique CDR3
13 unique J



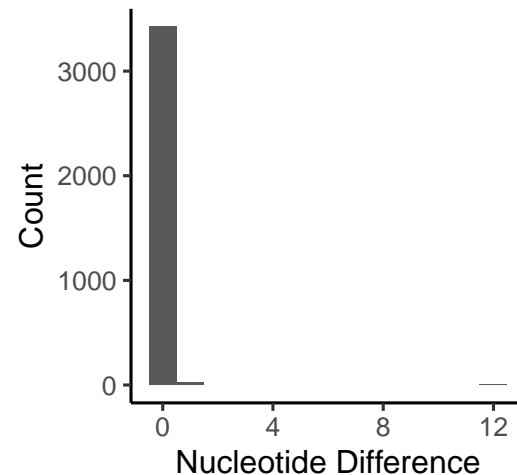
TRBV10-3*ap01

4244 sequences assigned
4199 (98.9%) exact matches, in which:
4132 unique CDR3
13 unique J



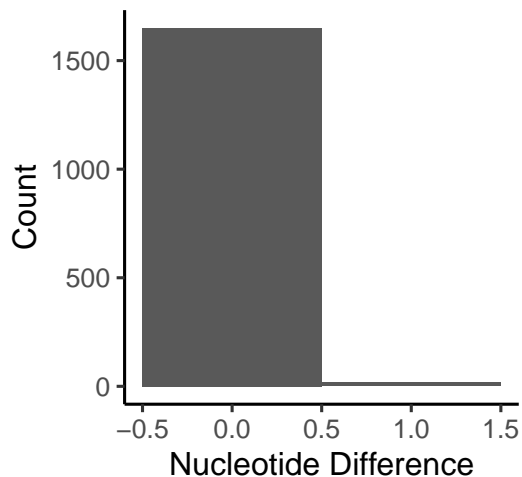
TRBV14*ap01

3449 sequences assigned
3424 (99.3%) exact matches, in which:
3378 unique CDR3
13 unique J



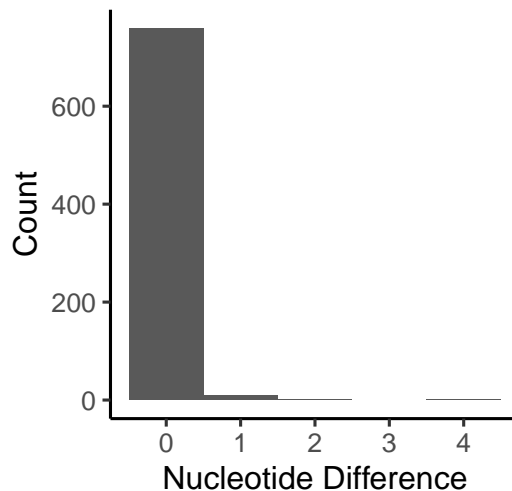
TRBV20-1*ap02

1667 sequences assigned
1650 (99%) exact matches, in which:
1626 unique CDR3
13 unique J



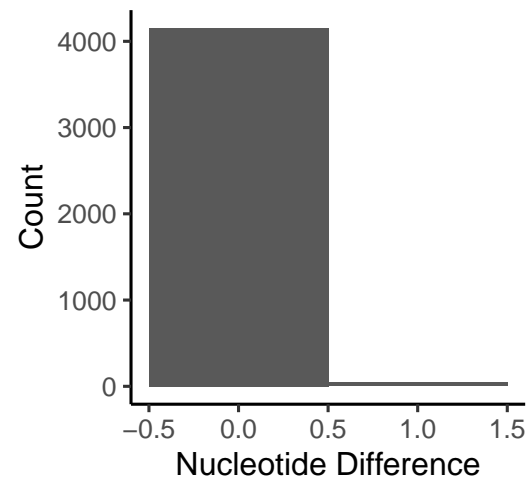
TRBV1*ap01

771 sequences assigned
759 (98.4%) exact matches, in which:
749 unique CDR3
13 unique J



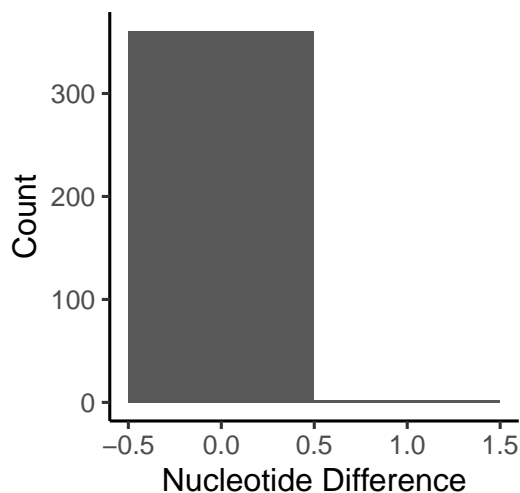
TRBV15*ap02

4200 sequences assigned
4154 (98.9%) exact matches, in which:
4063 unique CDR3
14 unique J



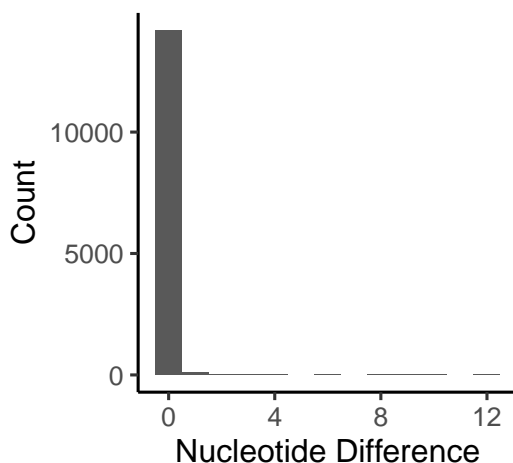
TRBV16*ap01

363 sequences assigned
361 (99.4%) exact matches, in which:
354 unique CDR3
13 unique J



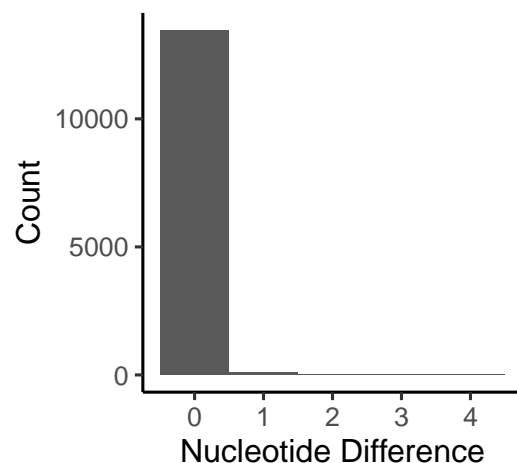
TRBV19*ap01

14328 sequences assigned
14197 (99.1%) exact matches, in which:
14052 unique CDR3
13 unique J



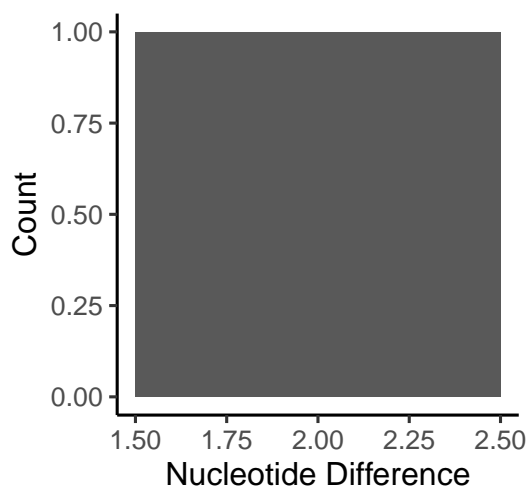
TRBV28*ap01

13579 sequences assigned
13464 (99.2%) exact matches, in which:
13264 unique CDR3
13 unique J



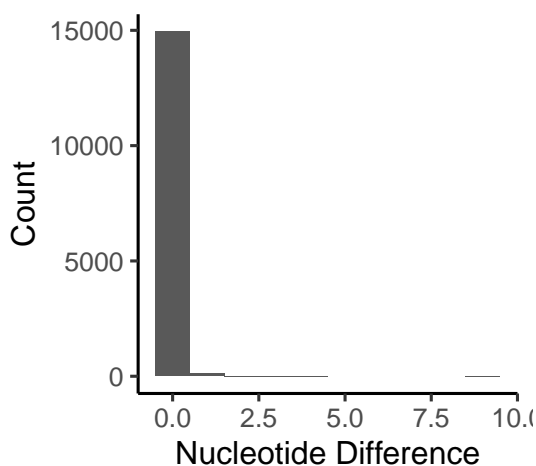
TRBV17*ap01

1 sequences assigned
No exact matches.



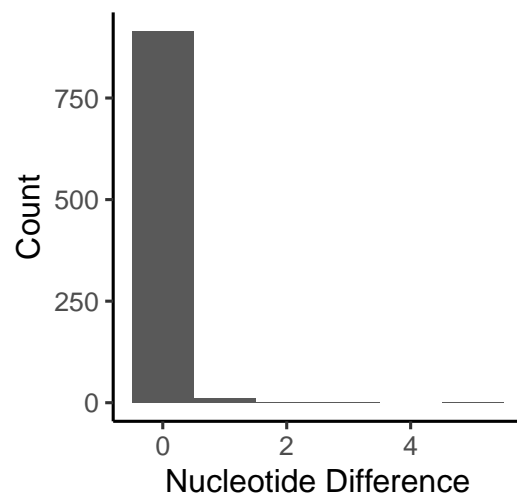
TRBV2*ap01

15088 sequences assigned
14950 (99.1%) exact matches, in which:
14703 unique CDR3
13 unique J



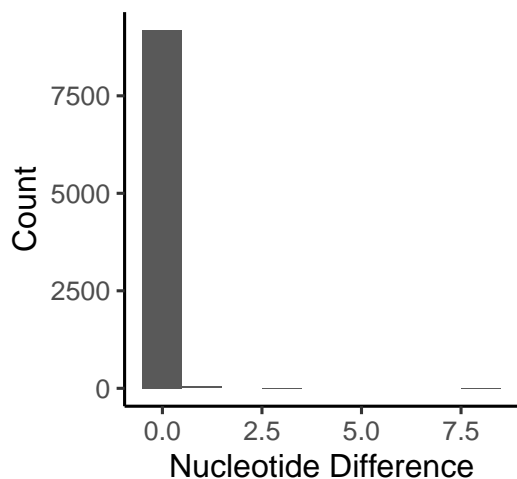
TRBV30*ap02

929 sequences assigned
915 (98.5%) exact matches, in which:
893 unique CDR3
13 unique J



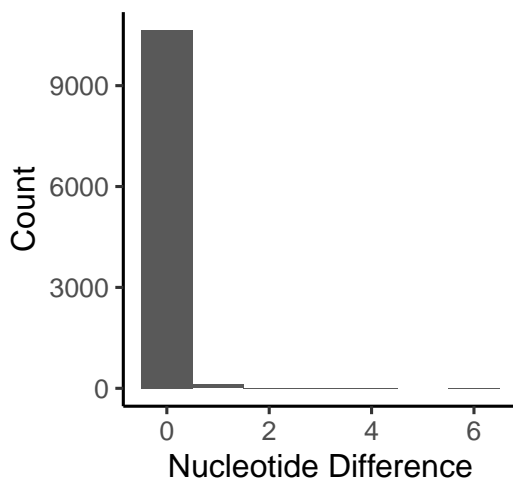
TRBV18*ap01

9231 sequences assigned
9186 (99.5%) exact matches, in which:
9087 unique CDR3
13 unique J



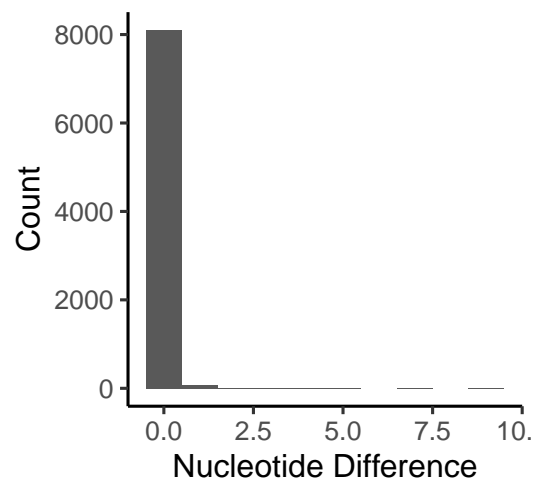
TRBV27*ap01

10778 sequences assigned
10653 (98.8%) exact matches, in which:
10475 unique CDR3
13 unique J



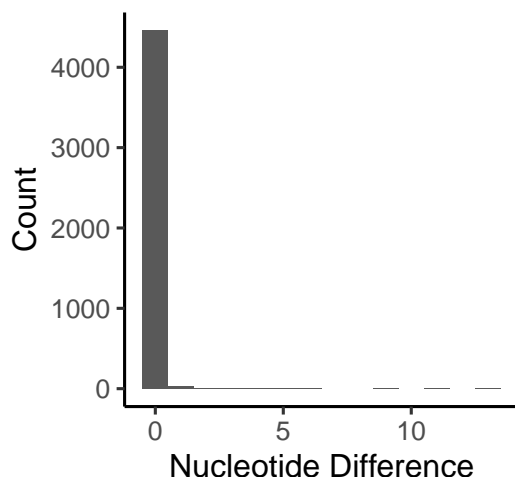
TRBV9*ap01

8190 sequences assigned
8102 (98.9%) exact matches, in which:
7990 unique CDR3
13 unique J



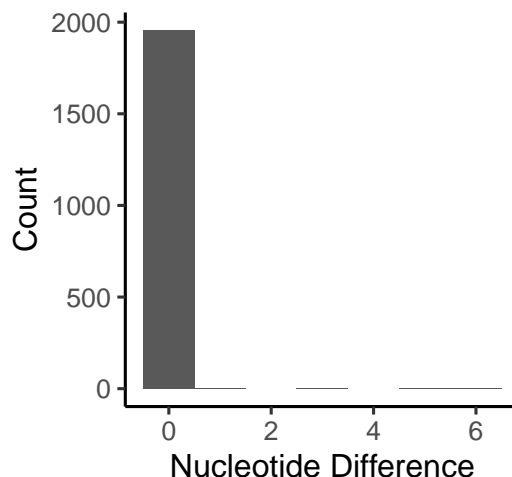
TRBV21-1*ap01

4514 sequences assigned
4459 (98.8%) exact matches, in which:
4411 unique CDR3
13 unique J



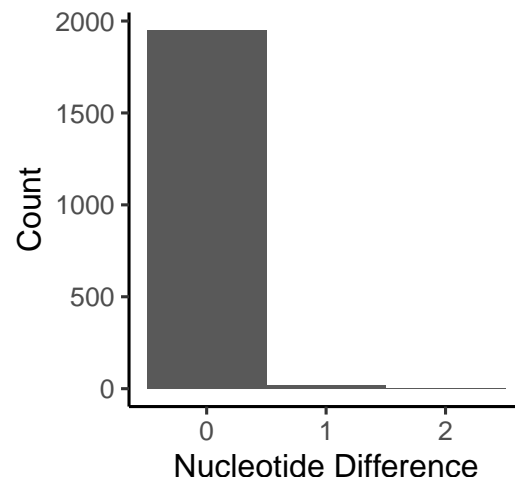
TRBV11-3*ap01

1964 sequences assigned
1955 (99.5%) exact matches, in which:
1945 unique CDR3
13 unique J



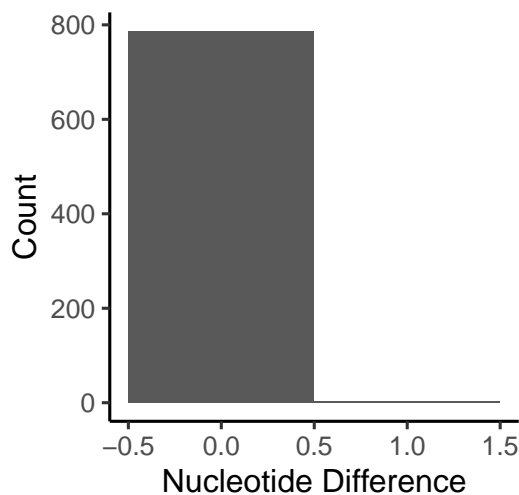
TRBV12-5*ap01

1969 sequences assigned
1949 (99%) exact matches, in which:
1923 unique CDR3
13 unique J



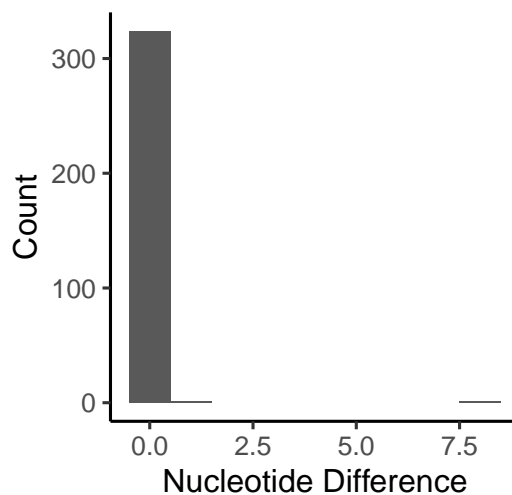
TRBV11-1*ap01

790 sequences assigned
787 (99.6%) exact matches, in which:
785 unique CDR3
13 unique J



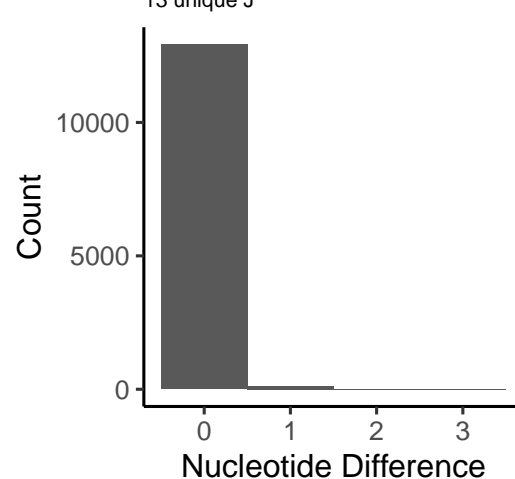
TRBV12-1*ap01

326 sequences assigned
324 (99.4%) exact matches, in which:
312 unique CDR3
13 unique J



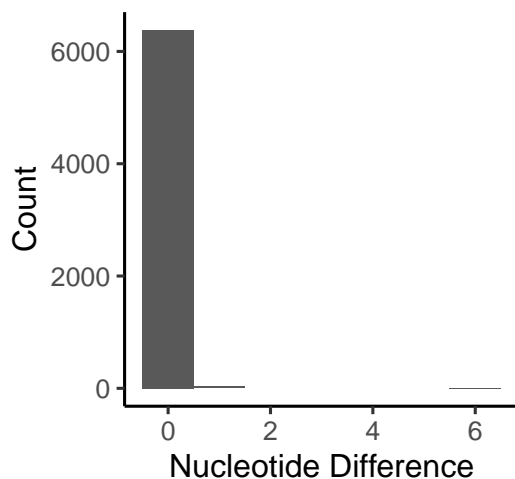
TRBV12-34*ap01

13063 sequences assigned
12923 (98.9%) exact matches, in which:
12709 unique CDR3
13 unique J



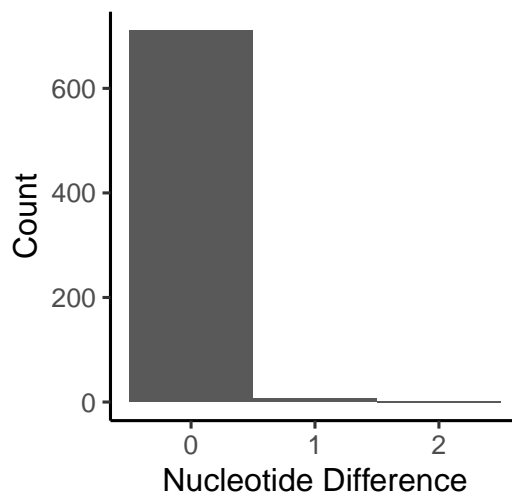
TRBV11-2*ap01

6416 sequences assigned
6381 (99.5%) exact matches, in which:
6332 unique CDR3
13 unique J



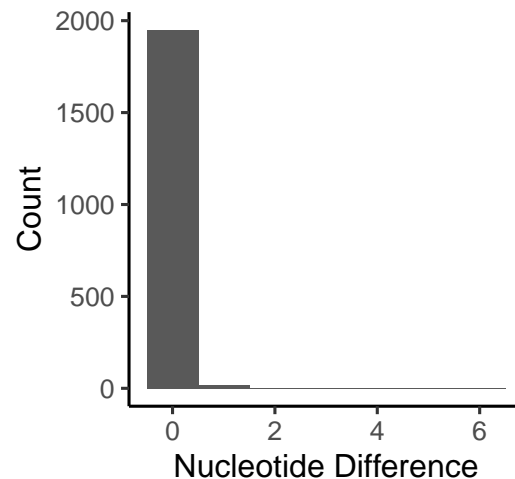
TRBV12-2*ap01

719 sequences assigned
711 (98.9%) exact matches, in which:
703 unique CDR3
13 unique J



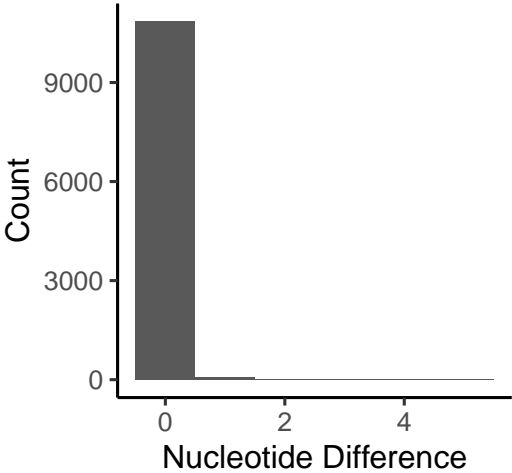
TRBV23-1*ap01

1972 sequences assigned
1949 (98.8%) exact matches, in which:
1911 unique CDR3
13 unique J



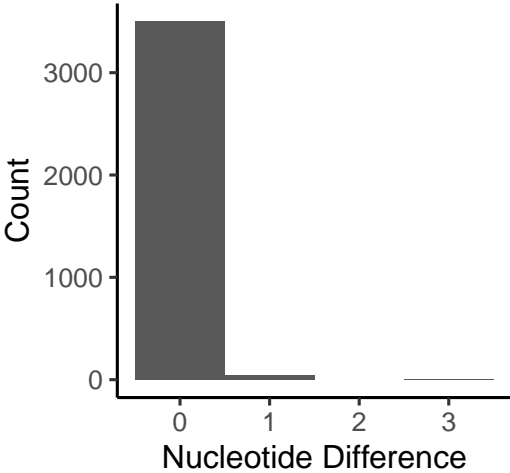
TRBV3-12*ap01

10939 sequences assigned
10850 (99.2%) exact matches, in which:
10705 unique CDR3
13 unique J



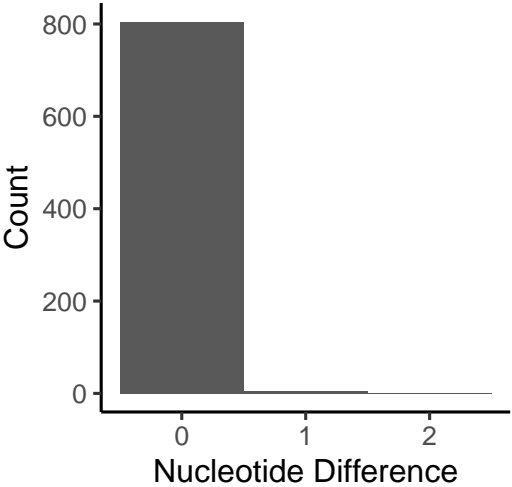
TRBV4-2*ap01

3551 sequences assigned
3501 (98.6%) exact matches, in which:
3443 unique CDR3
13 unique J



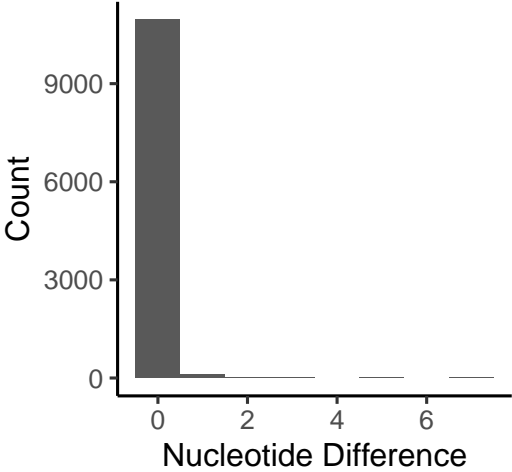
TRBV5-3*ap01

811 sequences assigned
805 (99.3%) exact matches, in which:
790 unique CDR3
13 unique J



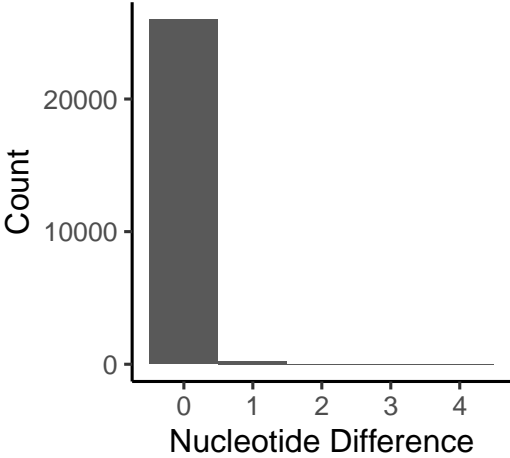
TRBV4-1*ap01

11075 sequences assigned
10954 (98.9%) exact matches, in which:
10742 unique CDR3
13 unique J



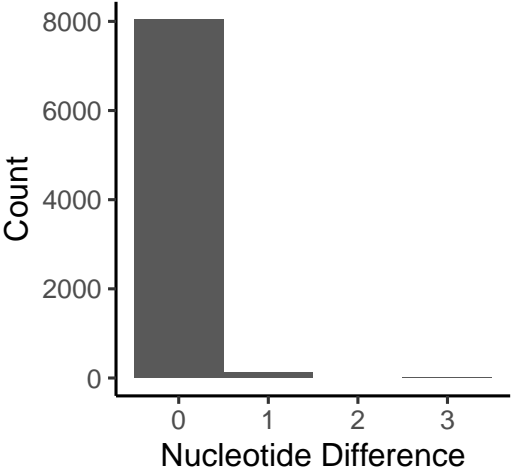
TRBV5-1*ap01

26269 sequences assigned
25998 (99%) exact matches, in which:
25483 unique CDR3
13 unique J



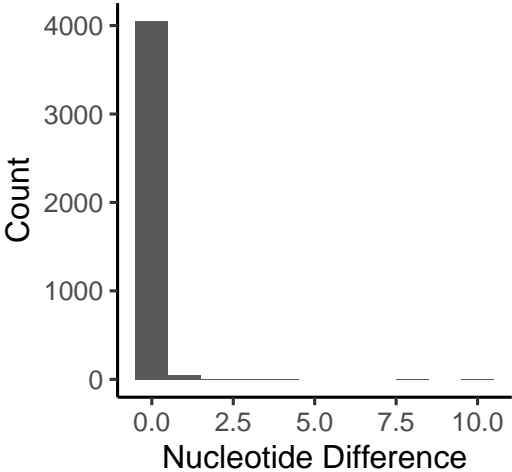
TRBV5-4*ap01

8153 sequences assigned
8037 (98.6%) exact matches, in which:
7894 unique CDR3
13 unique J



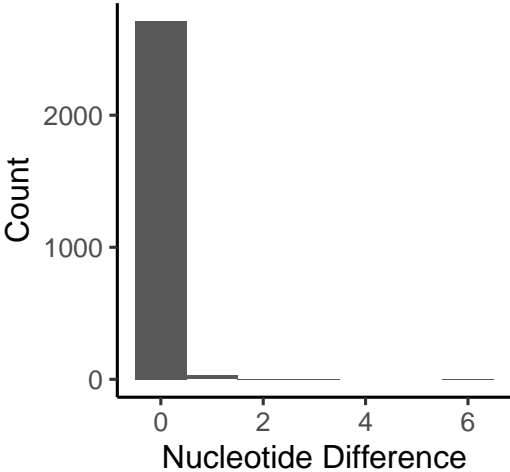
TRBV24-1*ap01

4110 sequences assigned
4051 (98.6%) exact matches, in which:
3987 unique CDR3
14 unique J



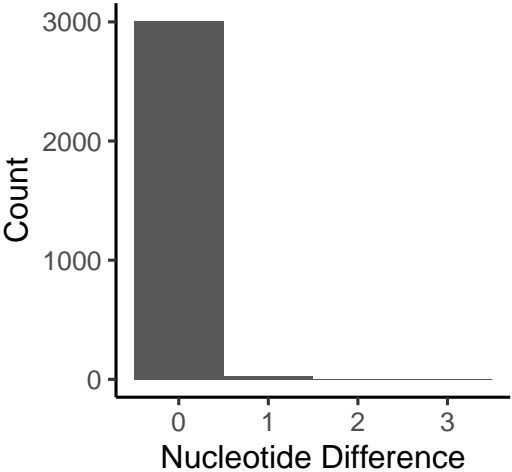
TRBV25-1*ap01

2747 sequences assigned
2713 (98.8%) exact matches, in which:
2652 unique CDR3
13 unique J



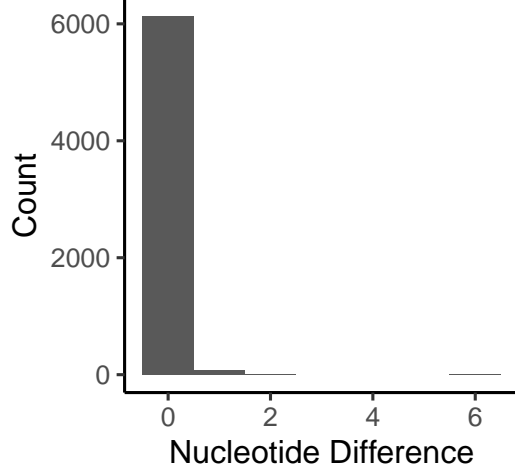
TRBV5-5*ap01

3039 sequences assigned
3007 (98.9%) exact matches, in which:
2992 unique CDR3
13 unique J



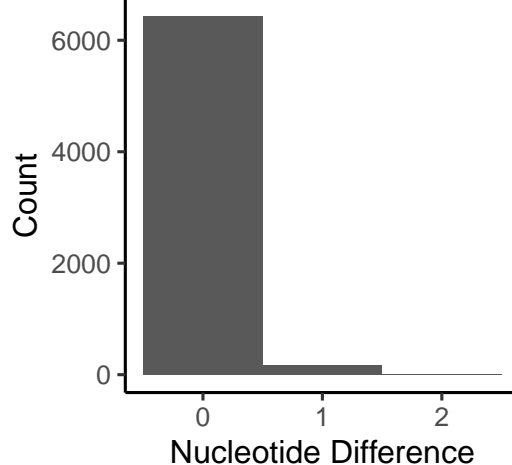
TRBV5-6*ap01

6210 sequences assigned
6127 (98.7%) exact matches, in which:
5970 unique CDR3
13 unique J



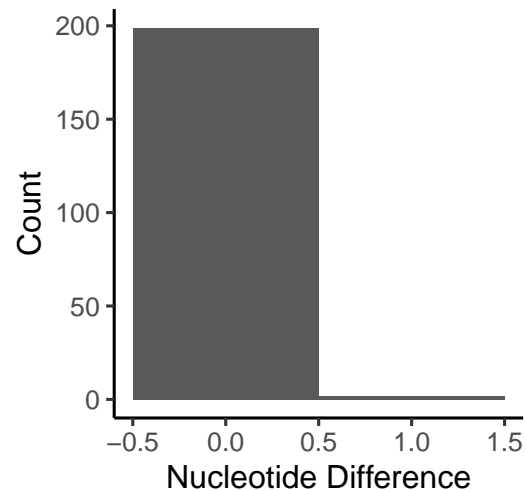
TRBV6-1*ap01

6606 sequences assigned
6428 (97.3%) exact matches, in which:
6293 unique CDR3
13 unique J



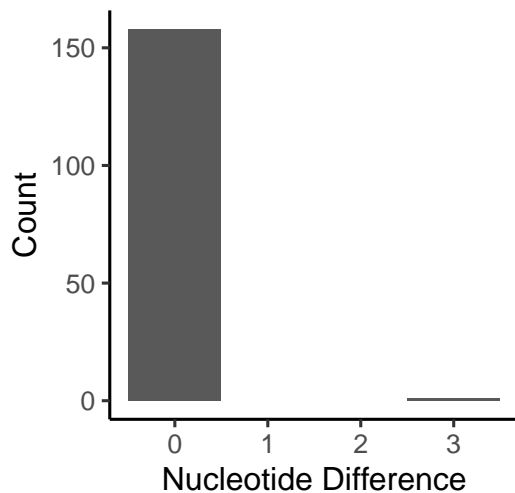
TRBV6-8*ap01

201 sequences assigned
199 (99%) exact matches, in which:
194 unique CDR3
13 unique J



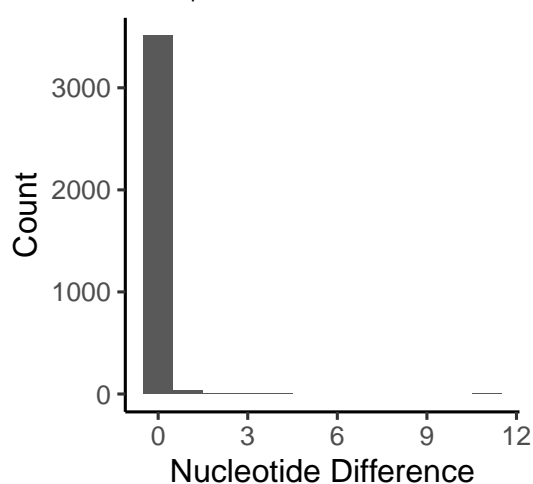
TRBV5-7*ap01

159 sequences assigned
158 (99.4%) exact matches, in which:
153 unique CDR3
13 unique J



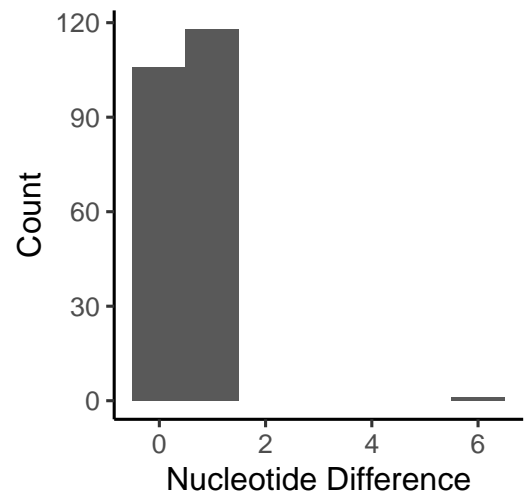
TRBV6-4*ap01

3554 sequences assigned
3510 (98.8%) exact matches, in which:
3464 unique CDR3
13 unique J



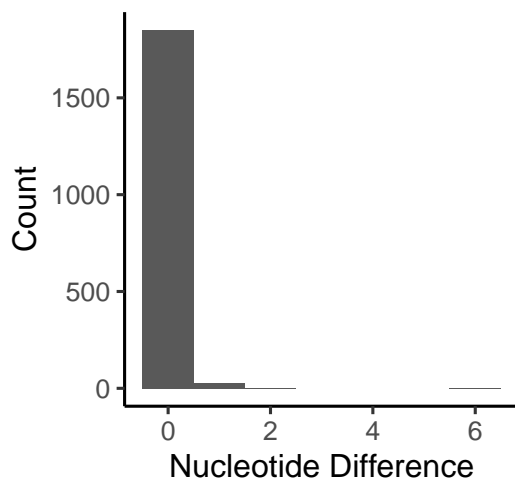
TRBV6-9*ap01

225 sequences assigned
106 (47.1%) exact matches, in which:
101 unique CDR3
13 unique J



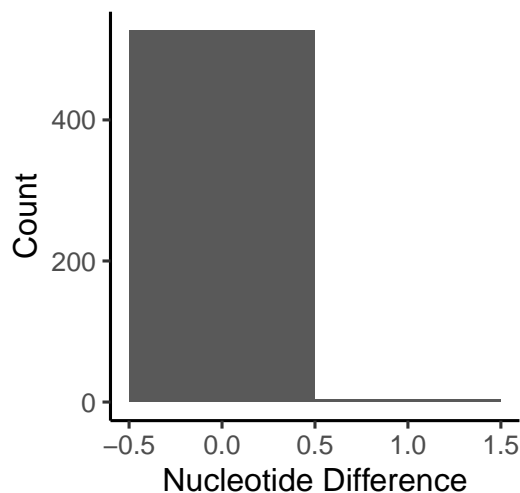
TRBV5-8*ap01

1881 sequences assigned
1850 (98.4%) exact matches, in which:
1822 unique CDR3
13 unique J



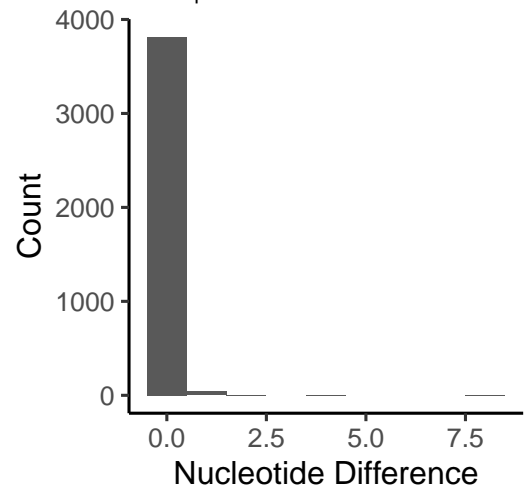
TRBV6-7*ap01

530 sequences assigned
527 (99.4%) exact matches, in which:
516 unique CDR3
13 unique J



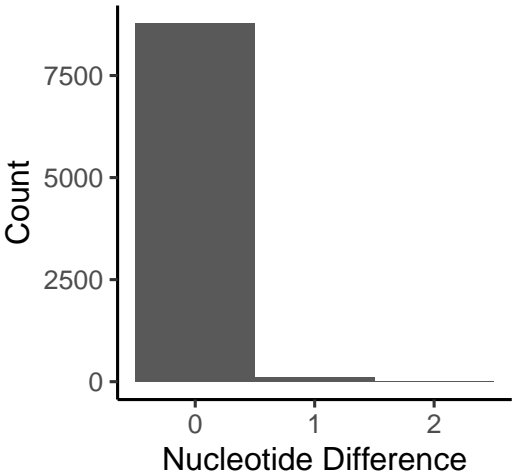
TRBV6-23*ap01

3857 sequences assigned
3813 (98.9%) exact matches, in which:
3726 unique CDR3
13 unique J



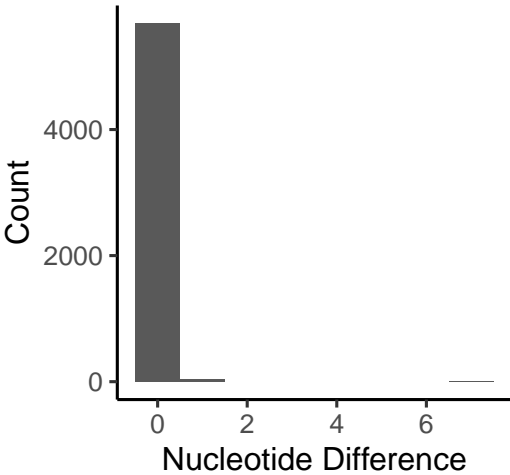
TRBV6-56*ap01

8879 sequences assigned
8777 (98.9%) exact matches, in which:
8595 unique CDR3
13 unique J



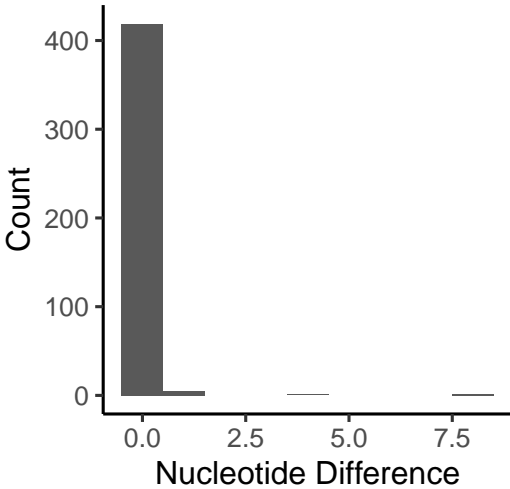
TRBV7-2*ap01

5731 sequences assigned
5684 (99.2%) exact matches, in which:
5601 unique CDR3
13 unique J



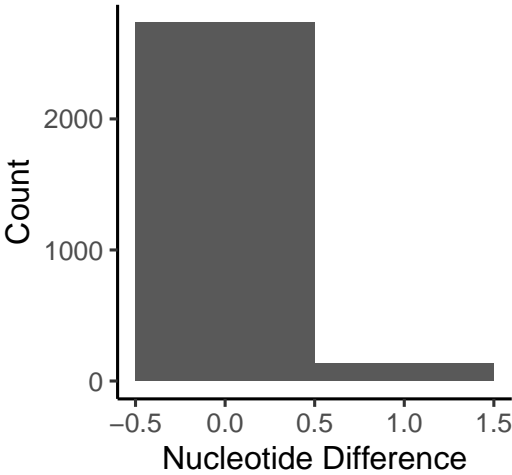
TRBV7-4*ap01

427 sequences assigned
419 (98.1%) exact matches, in which:
411 unique CDR3
13 unique J



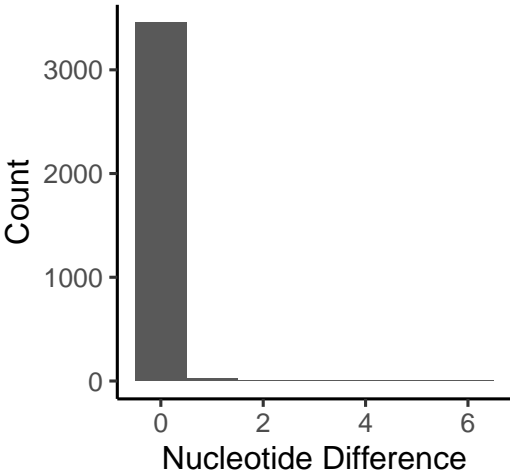
TRBV6-56*ap02

2868 sequences assigned
2734 (95.3%) exact matches, in which:
2682 unique CDR3
13 unique J



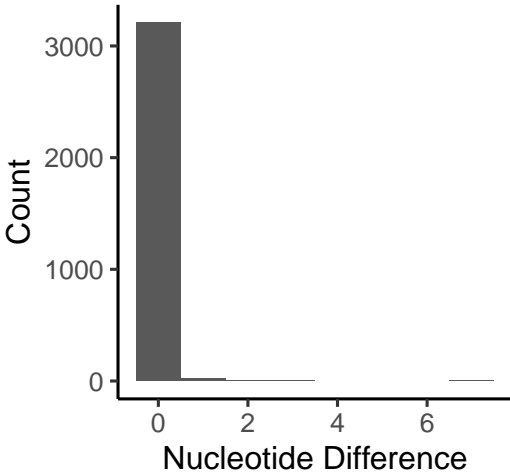
TRBV7-3*ap01

3482 sequences assigned
3454 (99.2%) exact matches, in which:
3412 unique CDR3
13 unique J



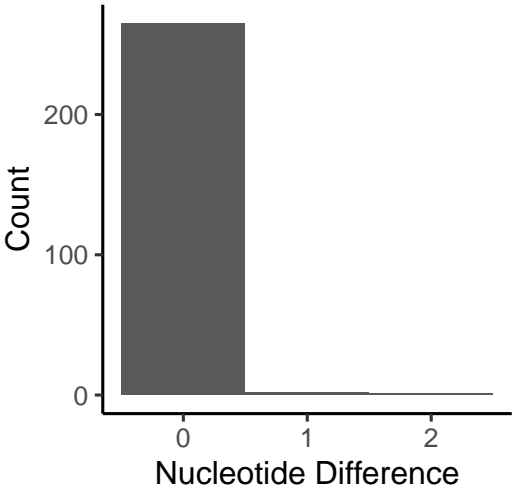
TRBV7-6*ap01

3230 sequences assigned
3208 (99.3%) exact matches, in which:
3140 unique CDR3
13 unique J



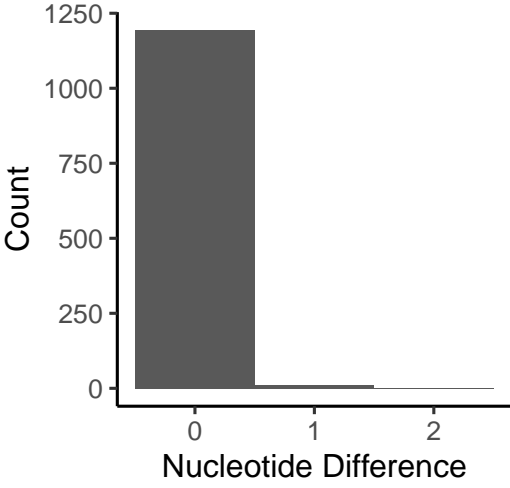
TRBV7-1*ap01_G291C_

268 sequences assigned
265 (98.9%) exact matches, in which:
263 unique CDR3
12 unique J



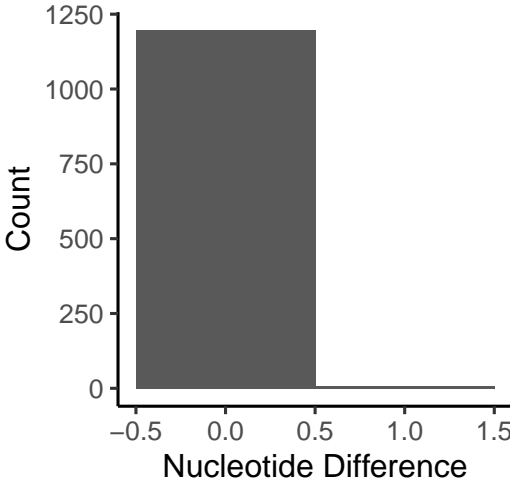
TRBV7-3*ap03

1207 sequences assigned
1194 (98.9%) exact matches, in which:
1169 unique CDR3
13 unique J



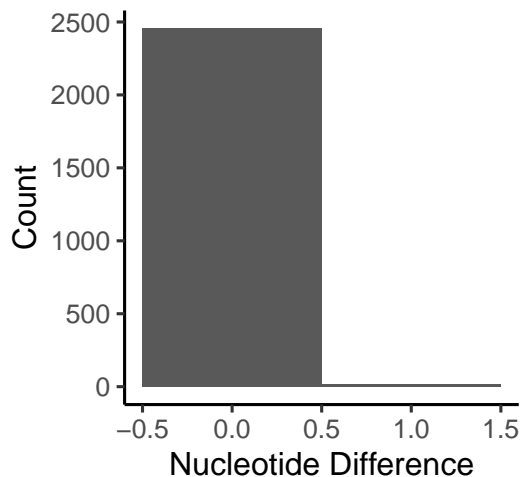
TRBV7-7*ap01

1204 sequences assigned
1197 (99.4%) exact matches, in which:
1173 unique CDR3
13 unique J



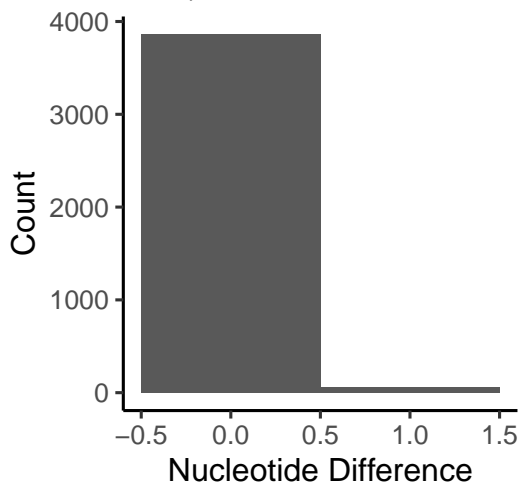
TRBV7-8*ap01

2471 sequences assigned
2456 (99.4%) exact matches, in which:
2420 unique CDR3
13 unique J



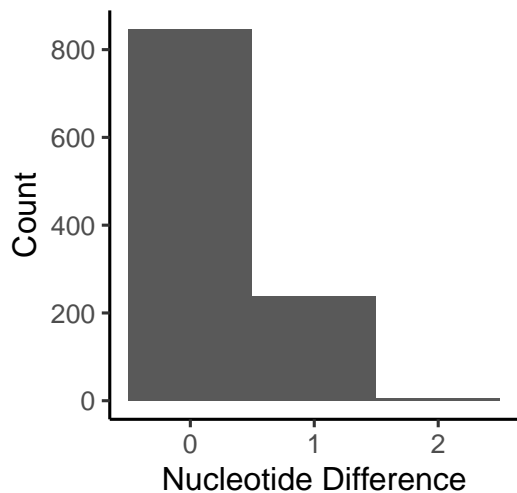
TRBV29-1*ap01

3918 sequences assigned
3861 (98.5%) exact matches, in which:
3785 unique CDR3
13 unique J



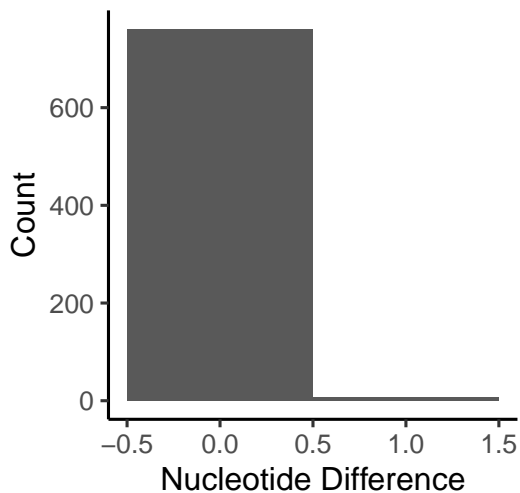
TRBV7-8*ap03

1091 sequences assigned
847 (77.6%) exact matches, in which:
832 unique CDR3
13 unique J



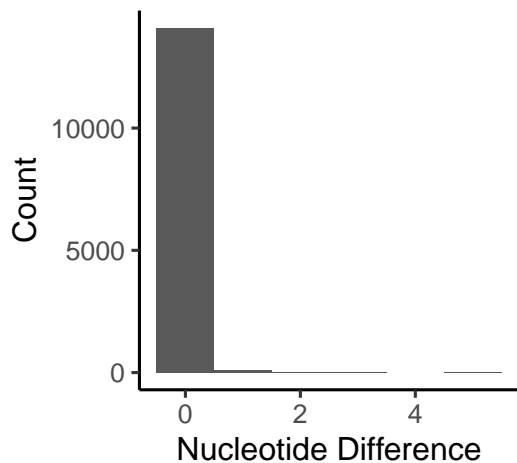
TRBV29-1*ap02

768 sequences assigned
761 (99.1%) exact matches, in which:
745 unique CDR3
13 unique J

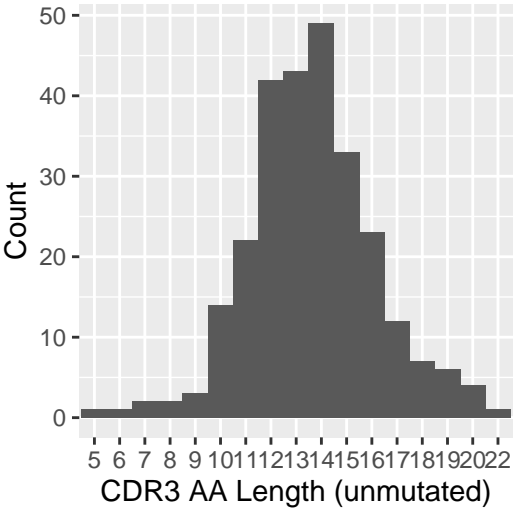


TRBV7-9*ap01

14203 sequences assigned
14103 (99.3%) exact matches, in which:
13916 unique CDR3
13 unique J



TRBV7-1*ap01_G291C_T296C_C314T





[illegible]