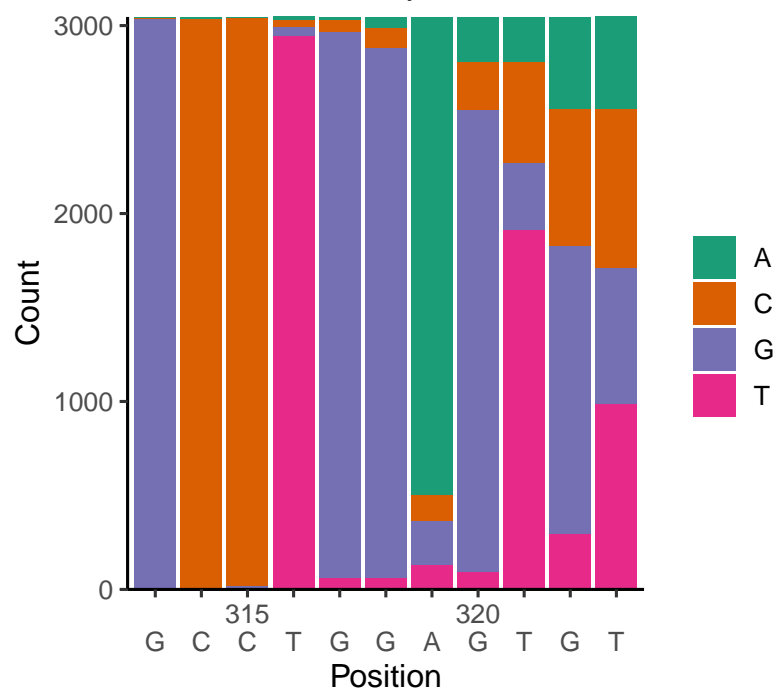
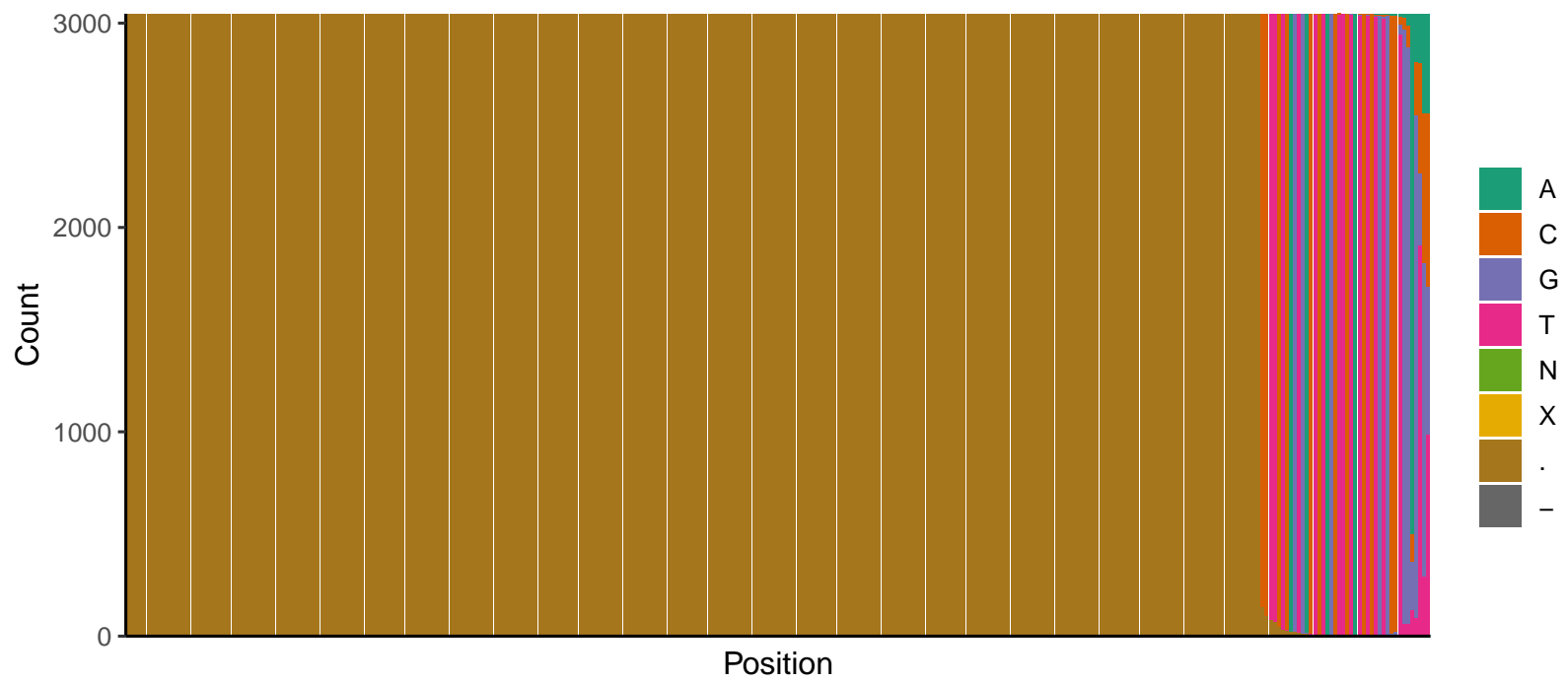


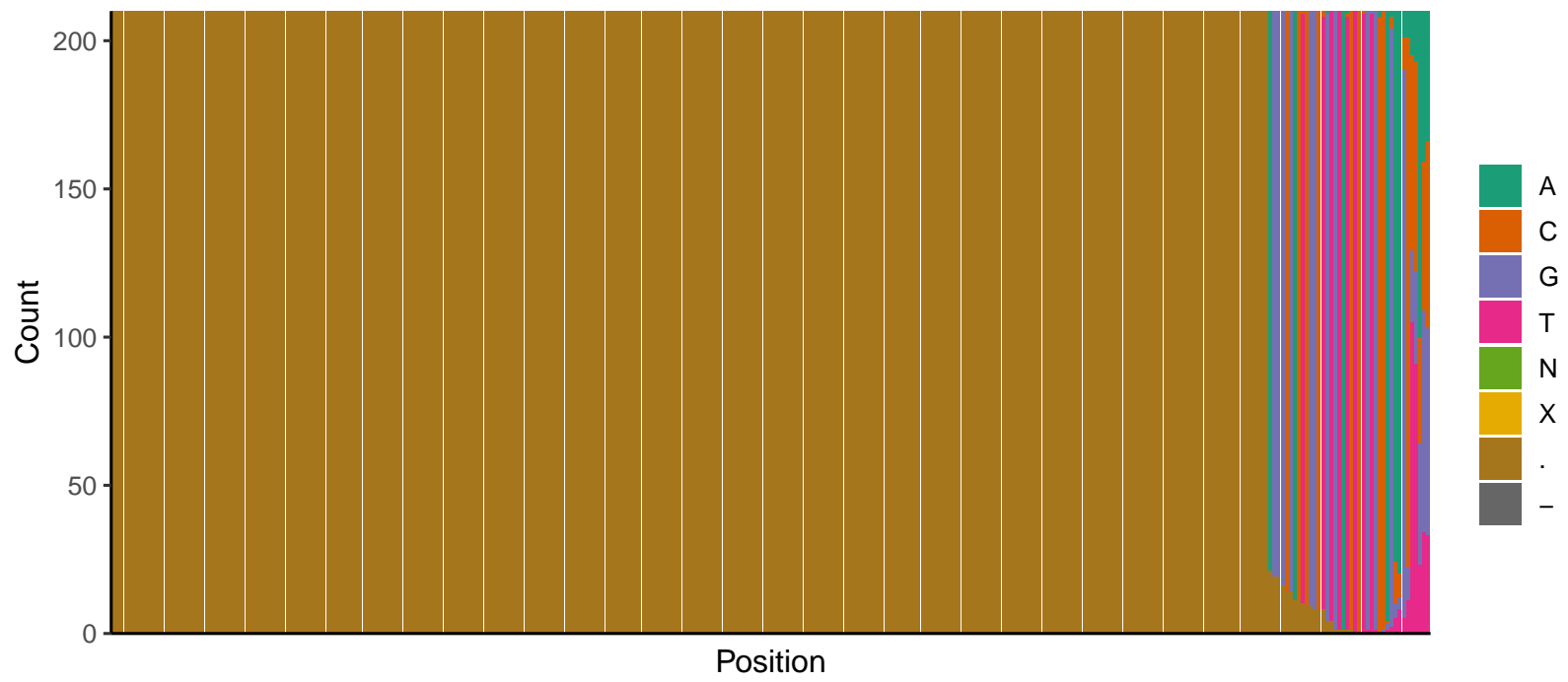
Gene TRBV30*ap01_G298A



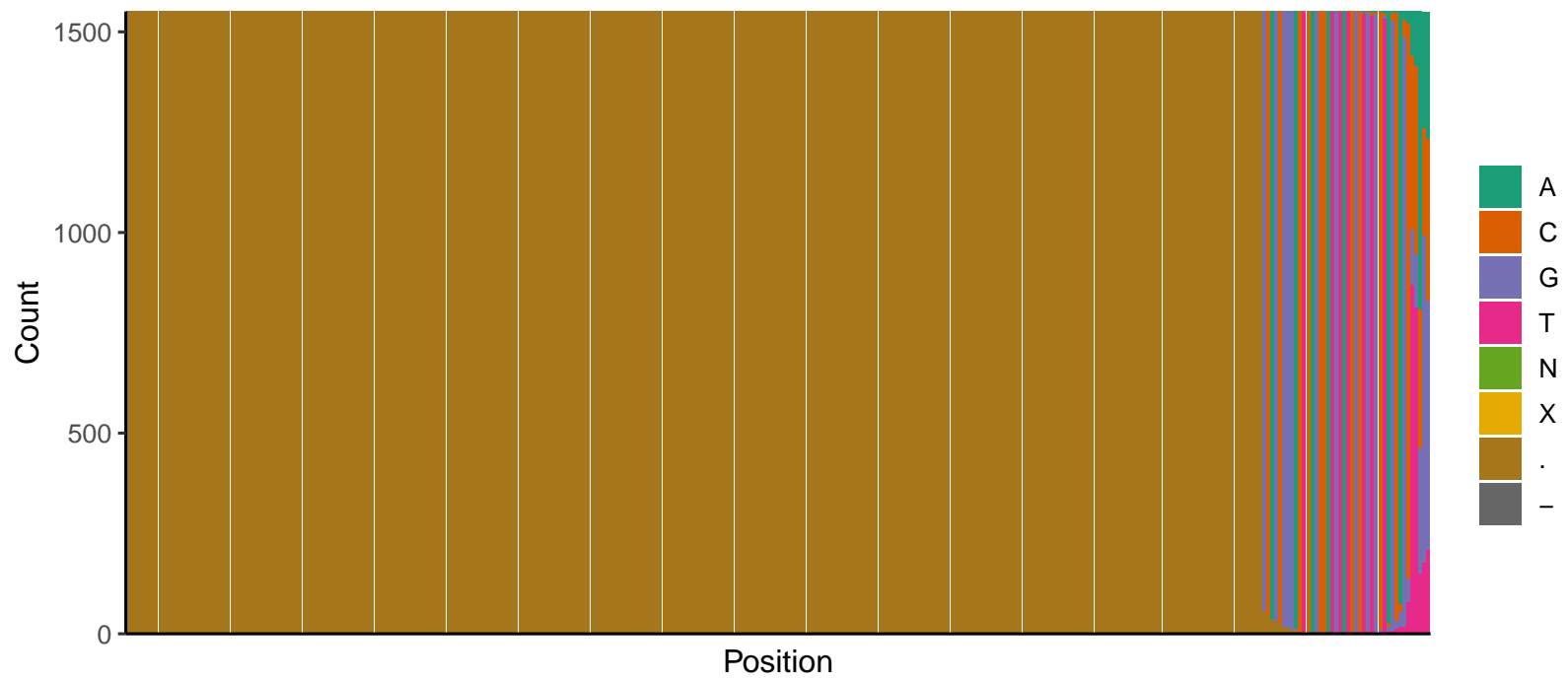
Gene TRBV30*ap01_G298A



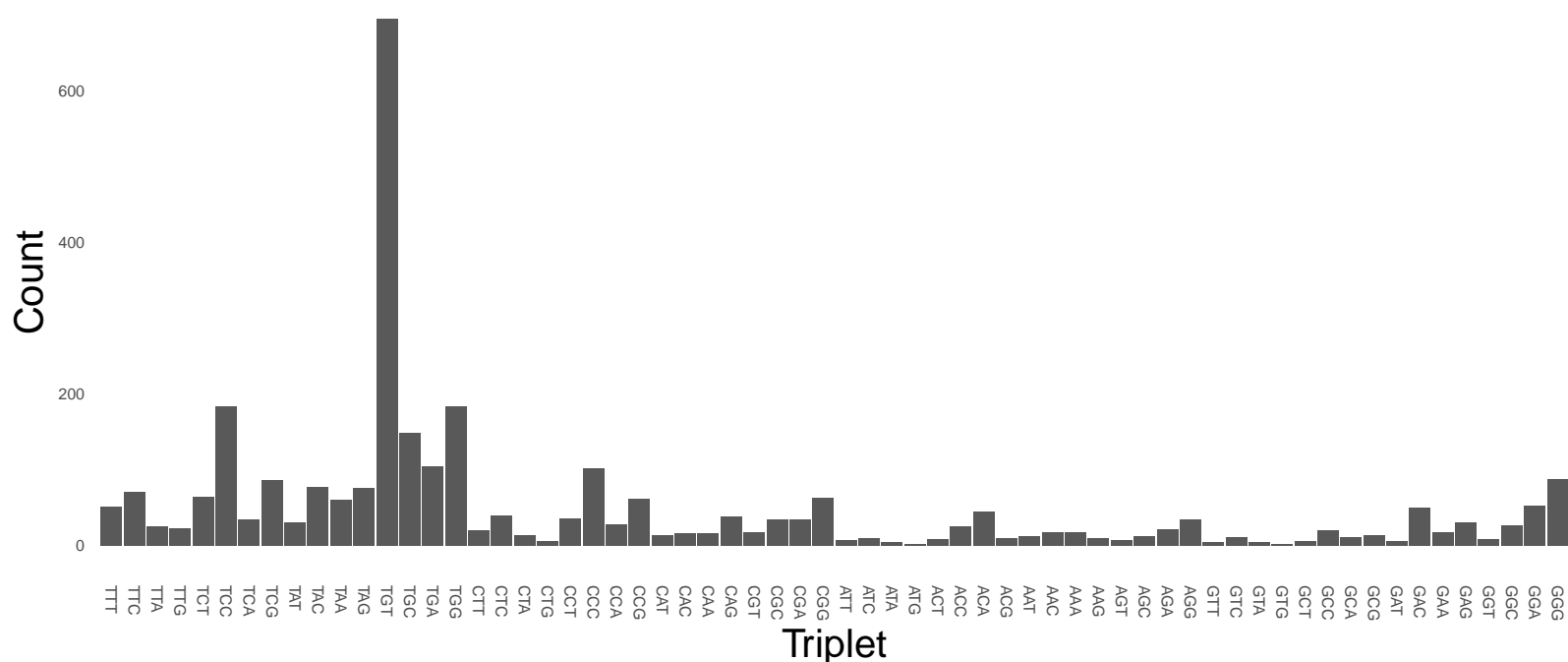
Gene TRBV7-1*ap01_G291C_T296C



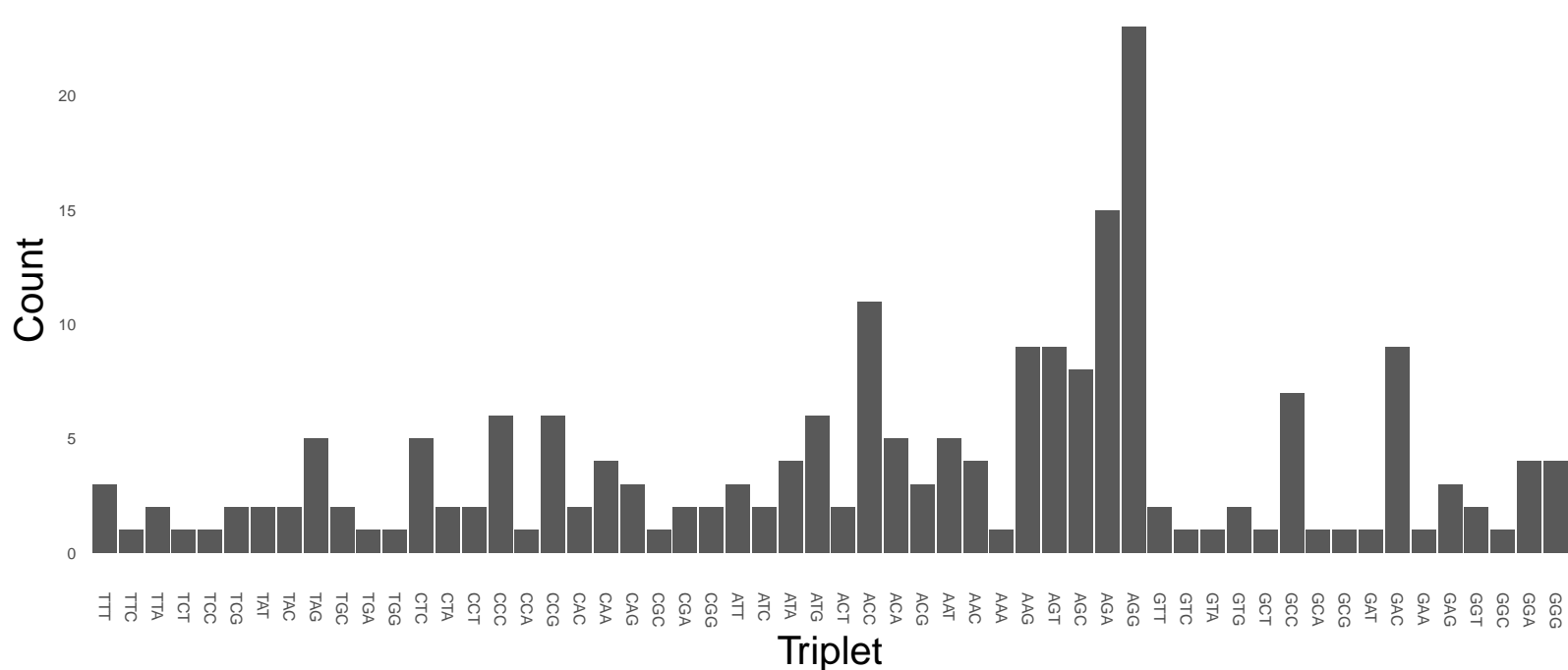
Gene TRBV7-7*ap01_C315T



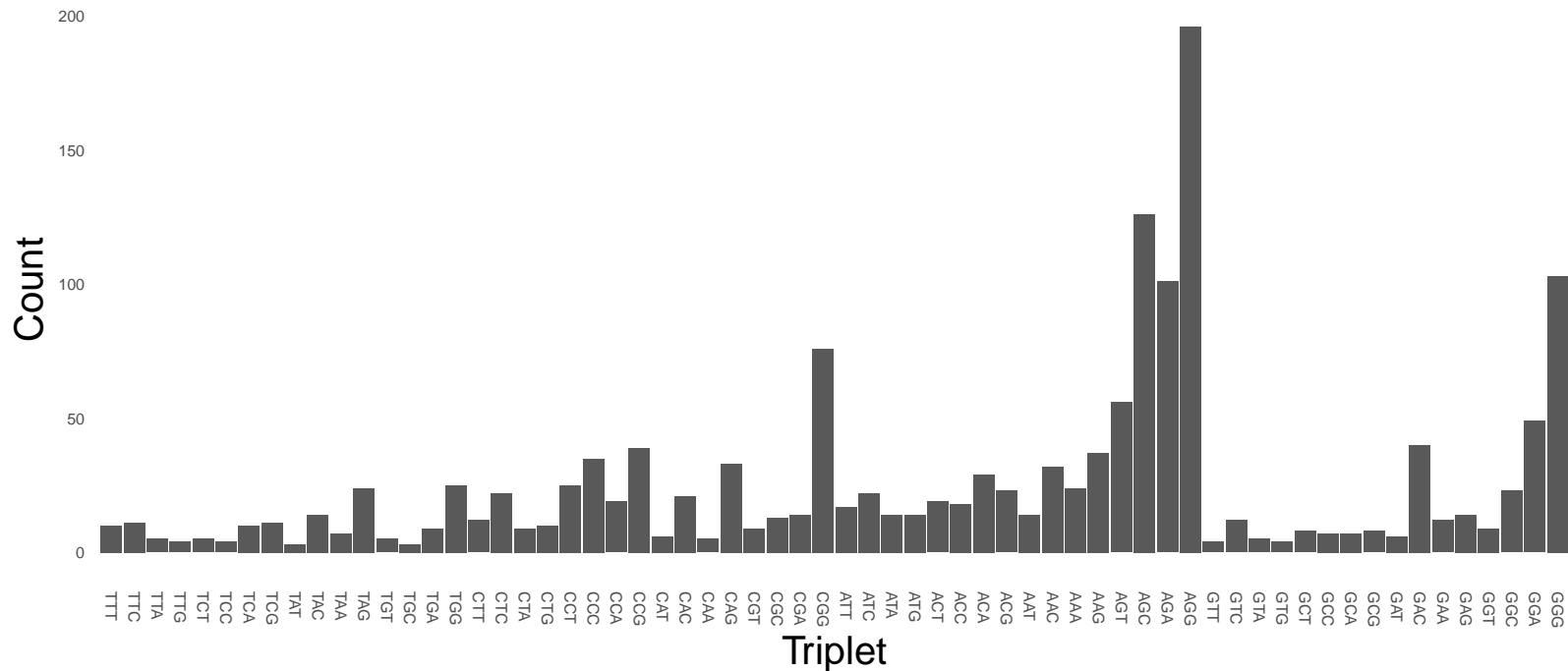
TRBV30*ap01_G298A– Final 3 nucleotides as a triplet



TRBV7-1*ap01_G291C_T296C– Final 3 nucleotides as a triplet

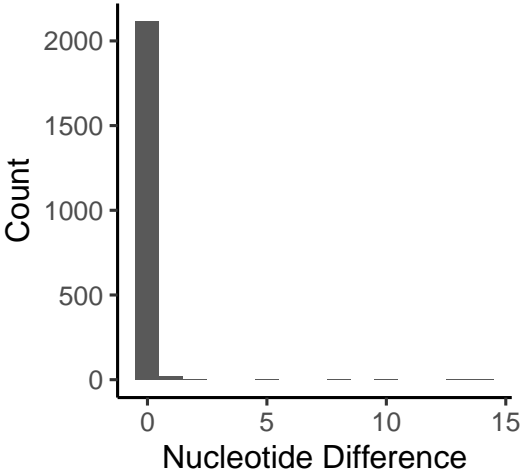


TRBV7-7*ap01_C315T– Final 3 nucleotides as a triplet



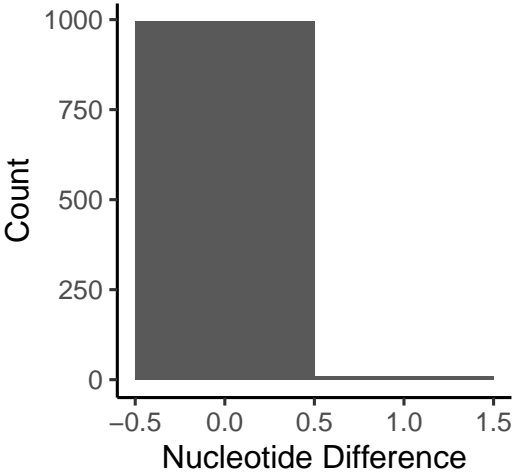
TRBV10-1*ap01

2141 sequences assigned
2115 (98.8%) exact matches, in which:
2066 unique CDR3
13 unique J



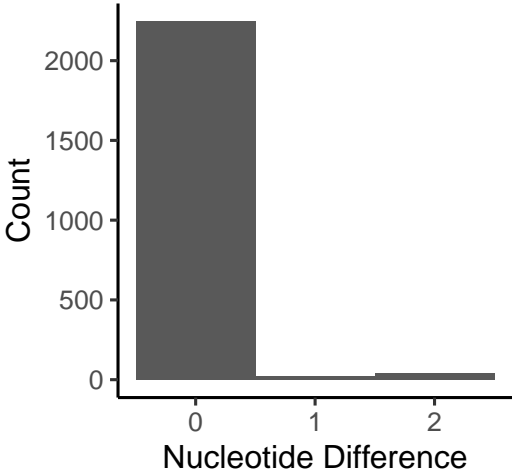
TRBV10-2*ap01

1006 sequences assigned
995 (98.9%) exact matches, in which:
979 unique CDR3
13 unique J



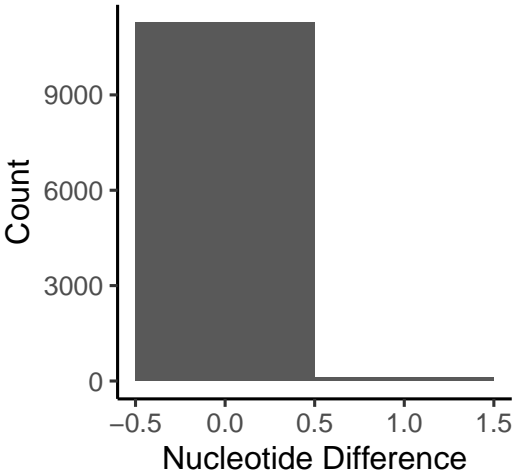
TRBV13*ap01

2312 sequences assigned
2246 (97.1%) exact matches, in which:
2182 unique CDR3
13 unique J



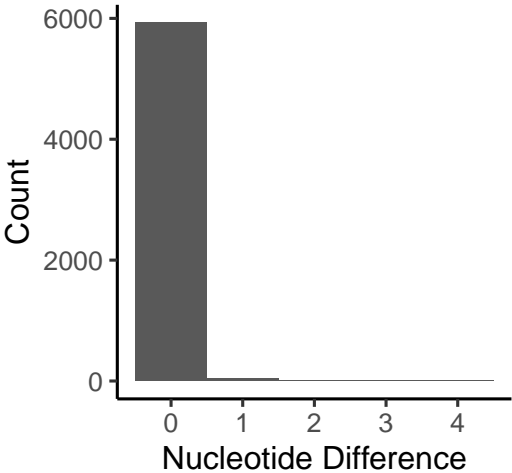
TRBV20-1*ap01

11380 sequences assigned
11270 (99%) exact matches, in which:
11111 unique CDR3
13 unique J



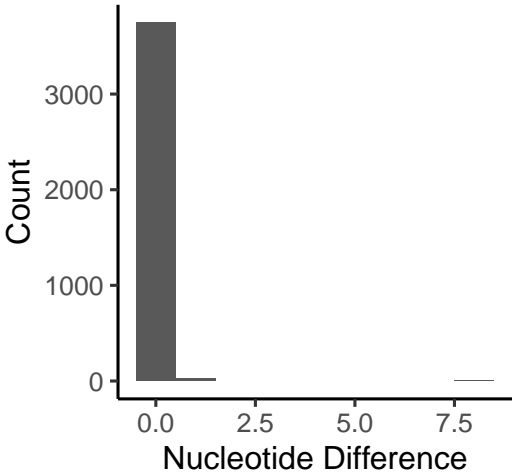
TRBV10-3*ap01

5969 sequences assigned
5928 (99.3%) exact matches, in which:
5806 unique CDR3
13 unique J



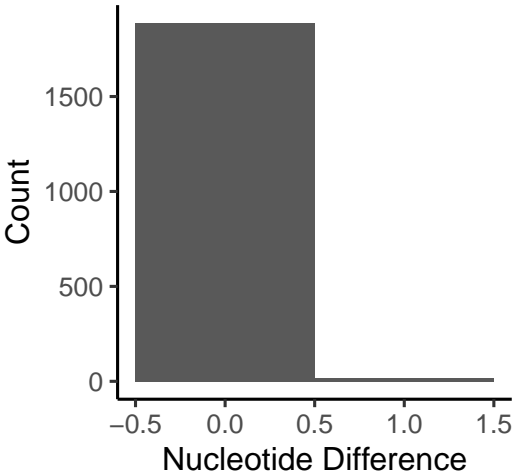
TRBV14*ap01

3774 sequences assigned
3746 (99.3%) exact matches, in which:
3706 unique CDR3
13 unique J



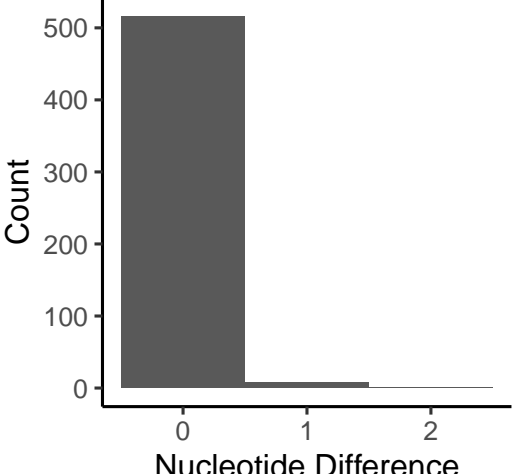
TRBV20-1*ap02

1905 sequences assigned
1887 (99.1%) exact matches, in which:
1867 unique CDR3
13 unique J



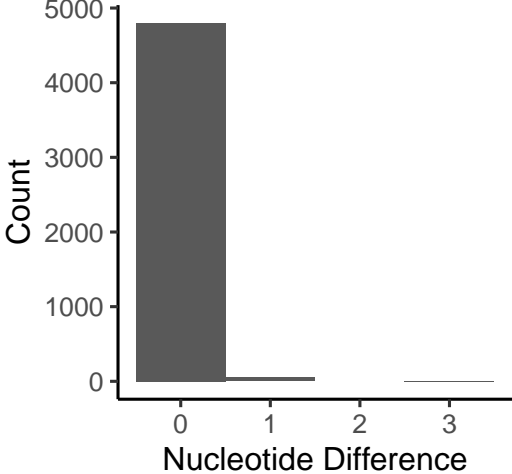
TRBV1*ap01

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



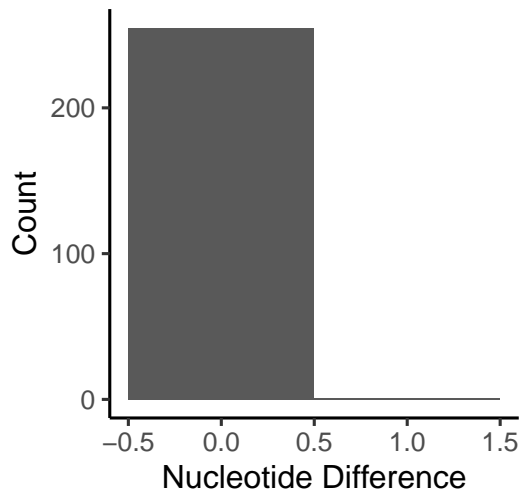
TRBV15*ap02

4852 sequences assigned
4799 (98.9%) exact matches, in which:
4720 unique CDR3
13 unique J



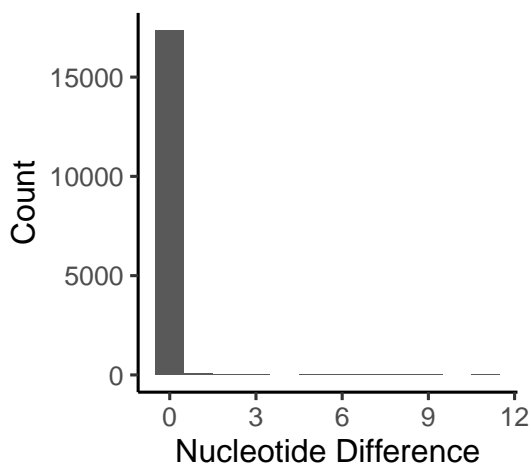
TRBV16*ap01

256 sequences assigned
255 (99.6%) exact matches, in which:
255 unique CDR3
13 unique J



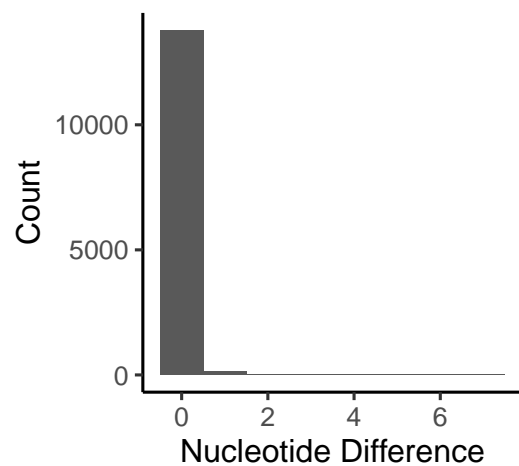
TRBV19*ap01

17479 sequences assigned
17365 (99.3%) exact matches, in which:
17260 unique CDR3
13 unique J



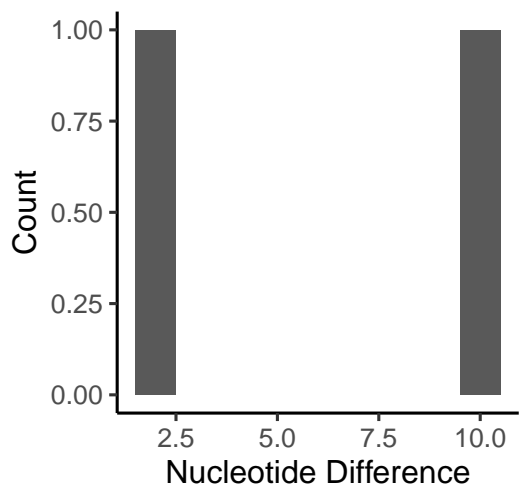
TRBV27*ap01

13930 sequences assigned
13784 (99%) exact matches, in which:
13456 unique CDR3
13 unique J



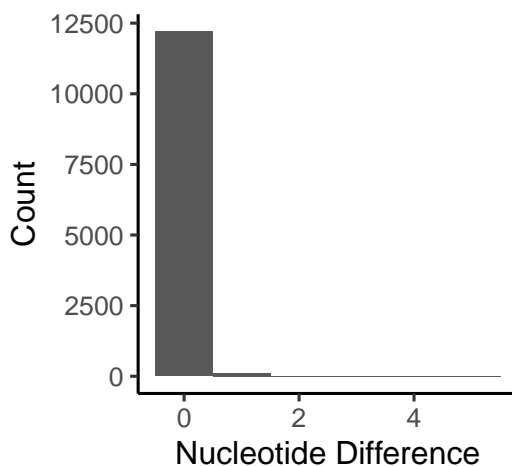
TRBV17*ap01

2 sequences assigned
No exact matches.



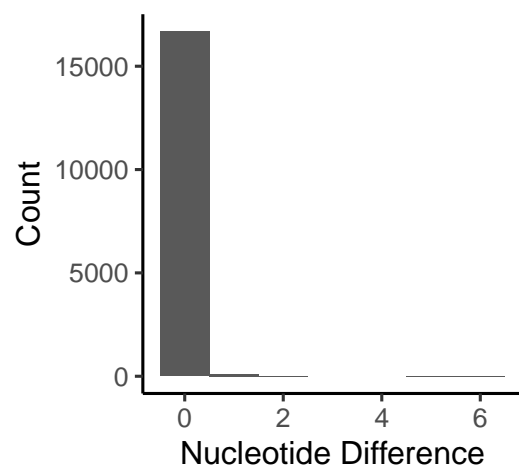
TRBV2*ap01

12333 sequences assigned
12206 (99%) exact matches, in which:
11942 unique CDR3
13 unique J



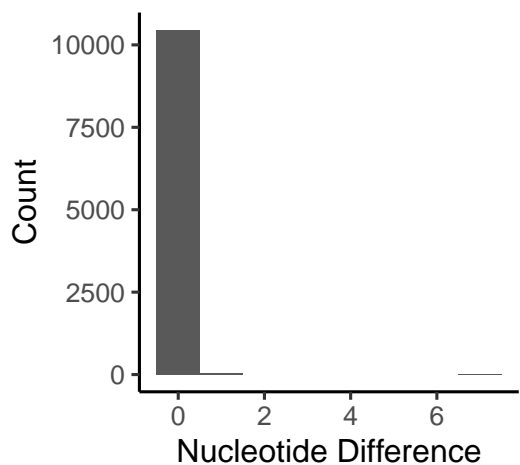
TRBV28*ap01

16804 sequences assigned
16681 (99.3%) exact matches, in which:
16474 unique CDR3
14 unique J



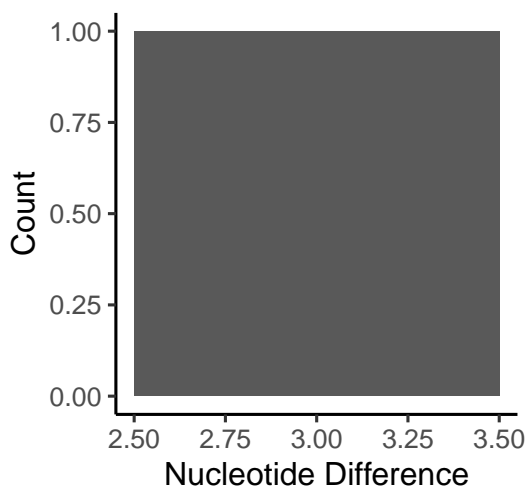
TRBV18*ap01

10490 sequences assigned
10458 (99.7%) exact matches, in which:
10385 unique CDR3
13 unique J



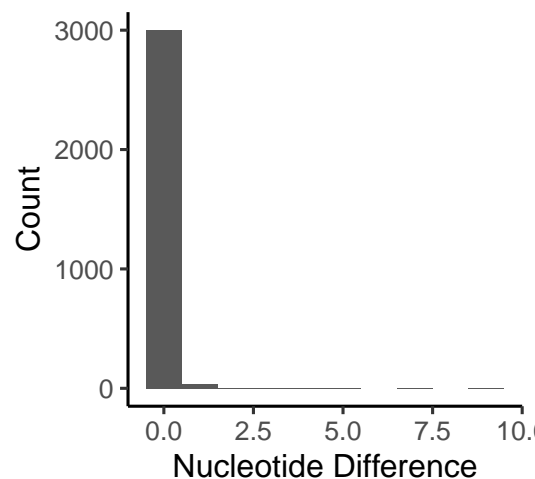
TRBV26*ap01

1 sequences assigned
No exact matches.



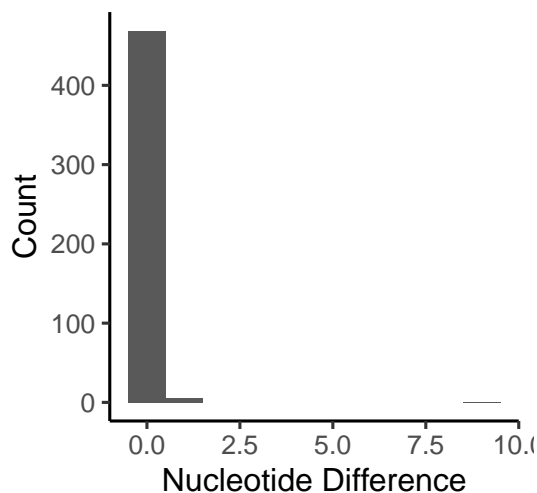
TRBV30*ap01_G298A

3046 sequences assigned
3001 (98.5%) exact matches, in which:
2954 unique CDR3
13 unique J



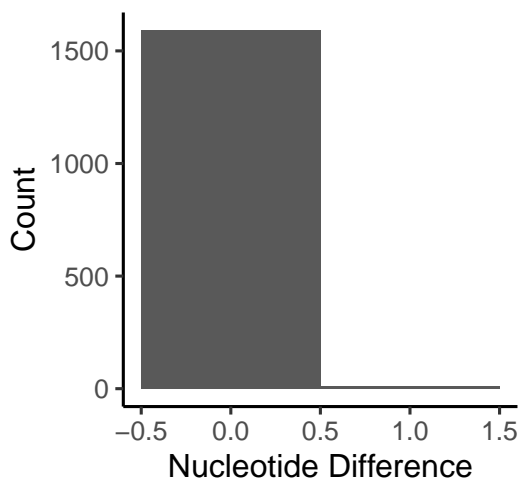
TRBV30*ap02

476 sequences assigned
469 (98.5%) exact matches, in which:
464 unique CDR3
13 unique J



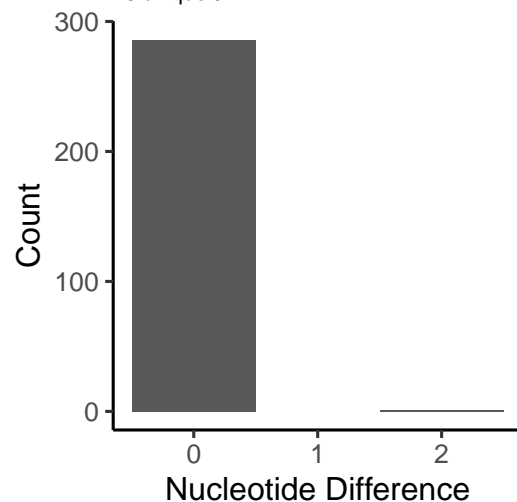
TRBV11-1*ap01

1600 sequences assigned
1591 (99.4%) exact matches, in which:
1579 unique CDR3
13 unique J



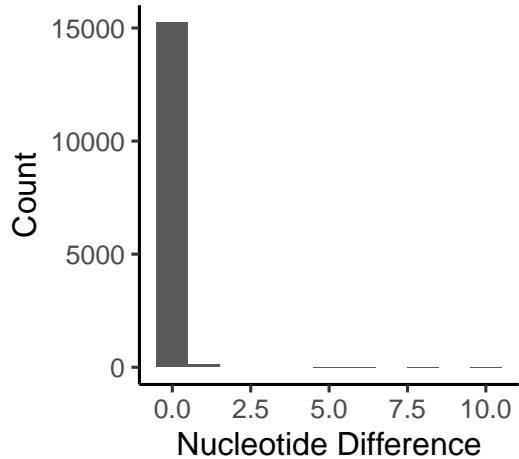
TRBV12-1*ap01

287 sequences assigned
286 (99.7%) exact matches, in which:
284 unique CDR3
13 unique J



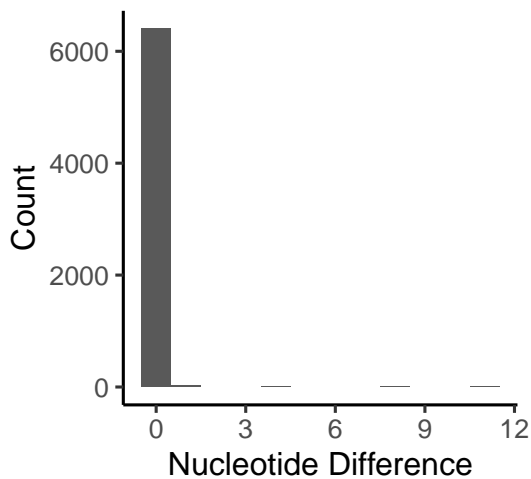
TRBV9*ap01

15369 sequences assigned
15245 (99.2%) exact matches, in which:
15053 unique CDR3
13 unique J



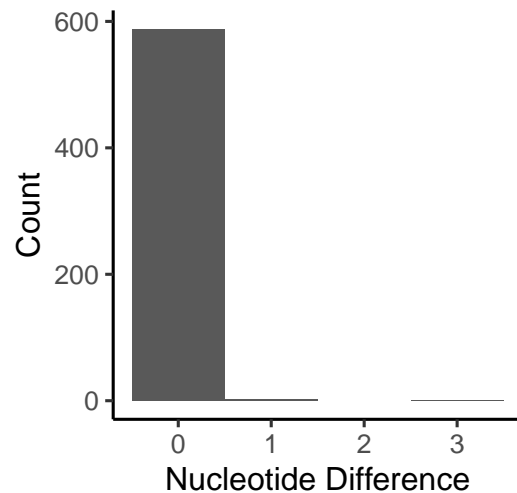
TRBV11-2*ap01

6430 sequences assigned
6403 (99.6%) exact matches, in which:
6338 unique CDR3
13 unique J



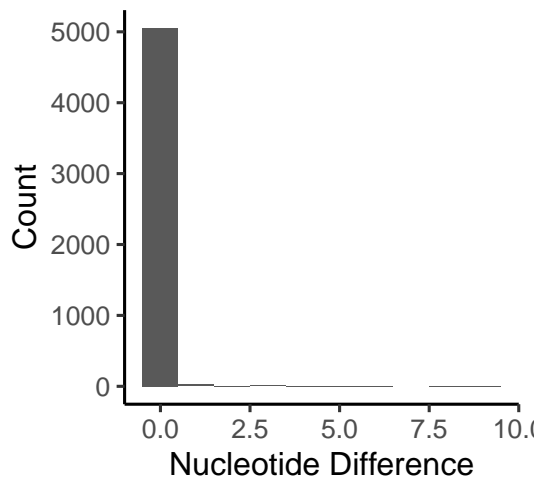
TRBV12-2*ap01

592 sequences assigned
588 (99.3%) exact matches, in which:
585 unique CDR3
13 unique J



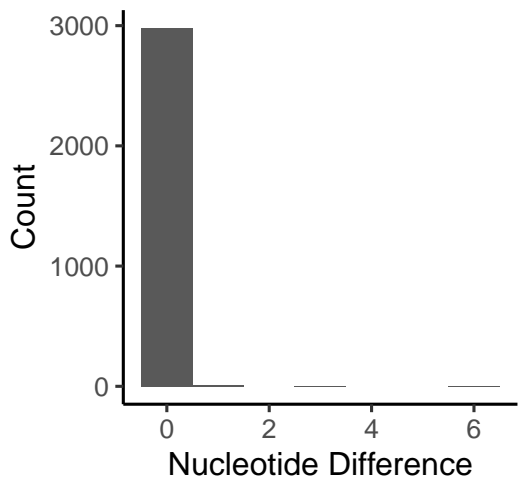
TRBV21-1*ap01

5108 sequences assigned
5053 (98.9%) exact matches, in which:
5002 unique CDR3
14 unique J



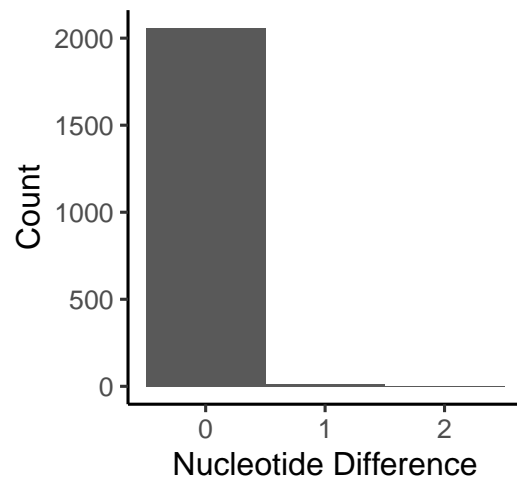
TRBV11-3*ap01

2996 sequences assigned
2980 (99.5%) exact matches, in which:
2958 unique CDR3
13 unique J



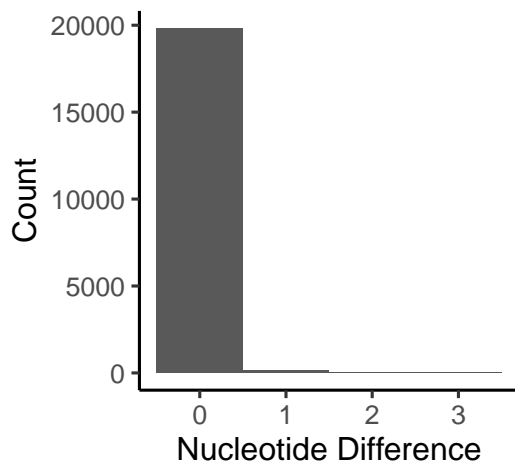
TRBV12-5*ap01

2074 sequences assigned
2058 (99.2%) exact matches, in which:
2024 unique CDR3
13 unique J



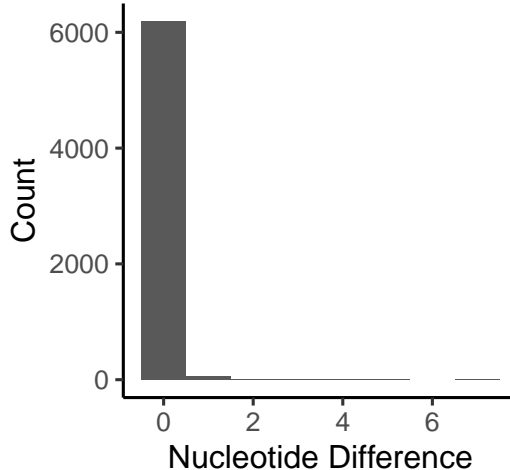
TRBV12–34*ap01

20008 sequences assigned
19831 (99.1%) exact matches, in which:
19528 unique CDR3
13 unique J



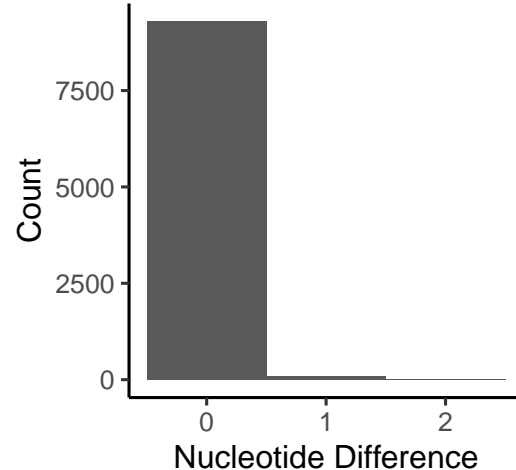
TRBV24–1*ap01

6269 sequences assigned
6189 (98.7%) exact matches, in which:
6068 unique CDR3
13 unique J



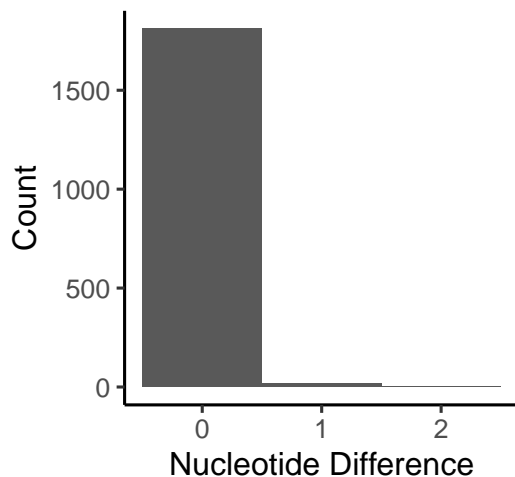
TRBV4–3*ap01

9383 sequences assigned
9294 (99.1%) exact matches, in which:
9120 unique CDR3
13 unique J



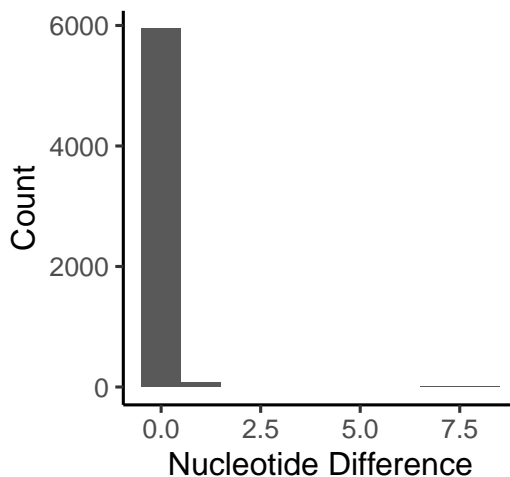
TRBV23–1*ap01

1829 sequences assigned
1811 (99%) exact matches, in which:
1789 unique CDR3
13 unique J



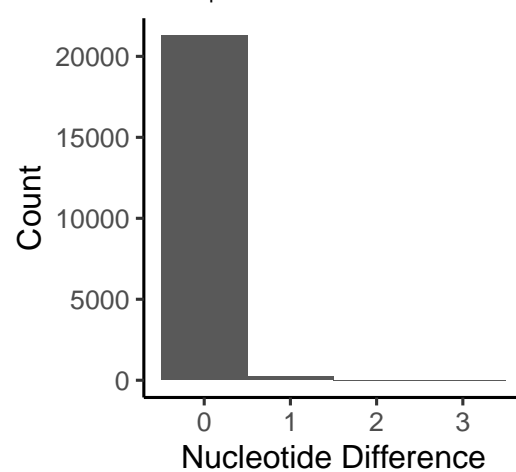
TRBV4–1*ap01

6018 sequences assigned
5946 (98.8%) exact matches, in which:
5810 unique CDR3
13 unique J



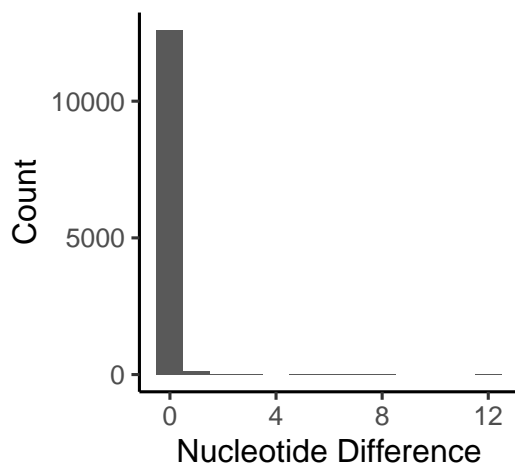
TRBV5–1*ap01

21523 sequences assigned
21290 (98.9%) exact matches, in which:
20779 unique CDR3
14 unique J



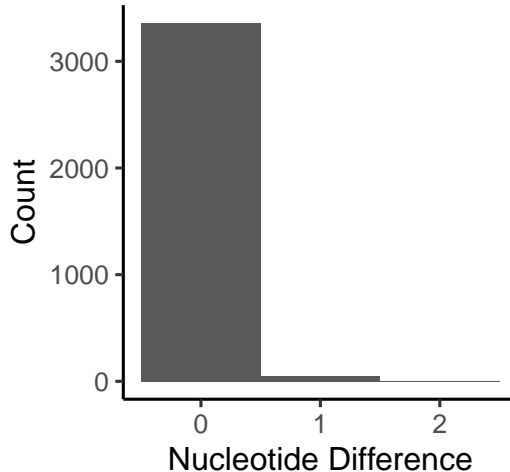
TRBV3–12*ap01

12748 sequences assigned
12611 (98.9%) exact matches, in which:
12377 unique CDR3
13 unique J



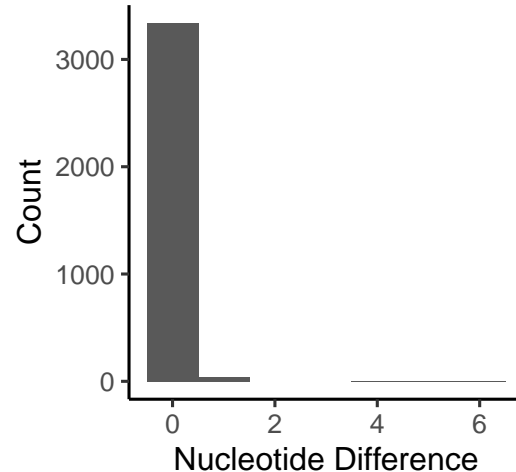
TRBV4–2*ap01

3410 sequences assigned
3359 (98.5%) exact matches, in which:
3290 unique CDR3
13 unique J



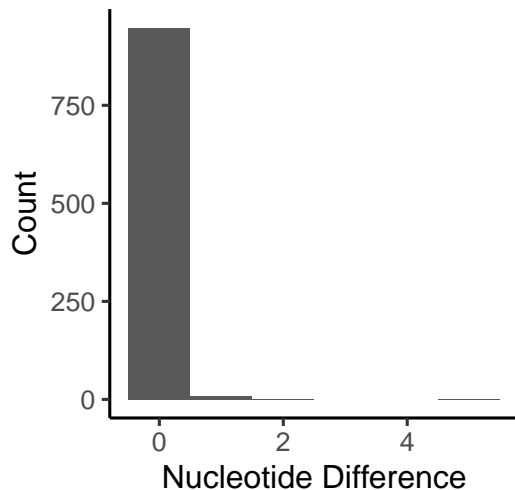
TRBV25–1*ap01

3382 sequences assigned
3339 (98.7%) exact matches, in which:
3275 unique CDR3
13 unique J



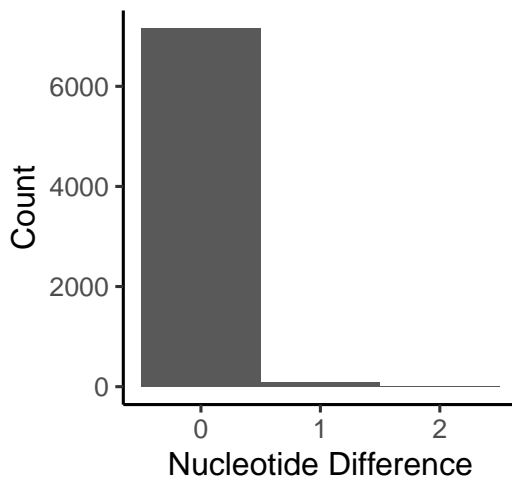
TRBV5-3*ap01

958 sequences assigned
948 (99%) exact matches, in which:
939 unique CDR3
13 unique J



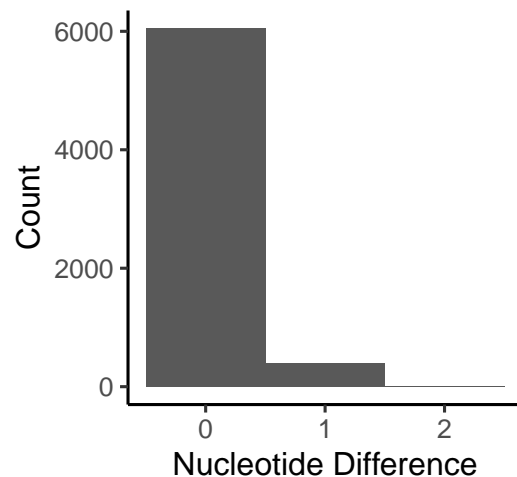
TRBV5-6*ap01

7240 sequences assigned
7157 (98.9%) exact matches, in which:
6945 unique CDR3
14 unique J



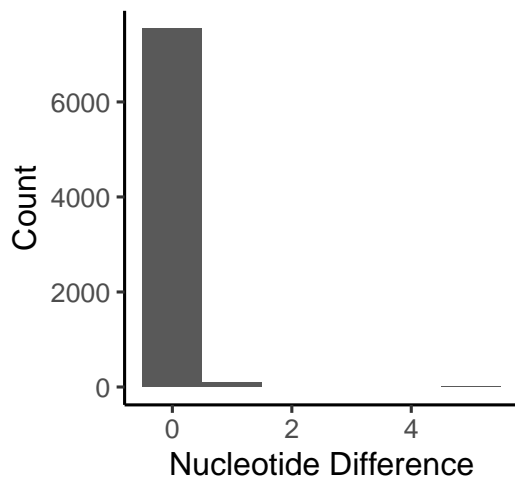
TRBV6-1*ap01

6446 sequences assigned
6049 (93.8%) exact matches, in which:
5915 unique CDR3
13 unique J



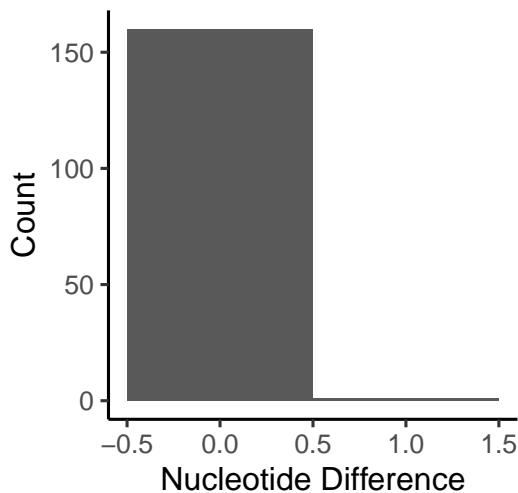
TRBV5-4*ap01

7637 sequences assigned
7541 (98.7%) exact matches, in which:
7403 unique CDR3
13 unique J



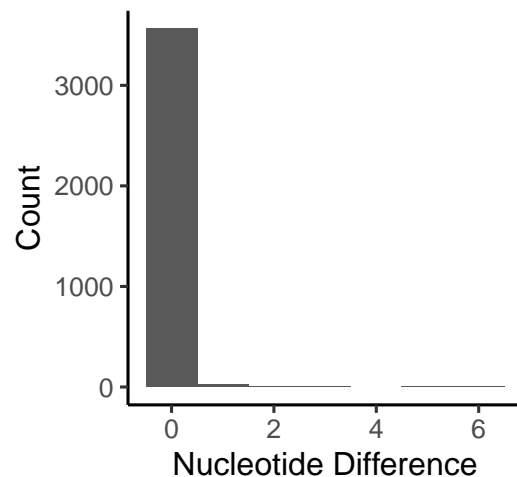
TRBV5-7*ap01

161 sequences assigned
160 (99.4%) exact matches, in which:
158 unique CDR3
12 unique J



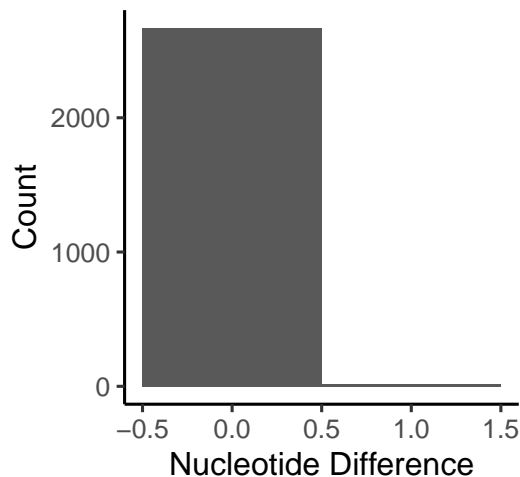
TRBV6-4*ap01

3599 sequences assigned
3563 (99%) exact matches, in which:
3524 unique CDR3
13 unique J



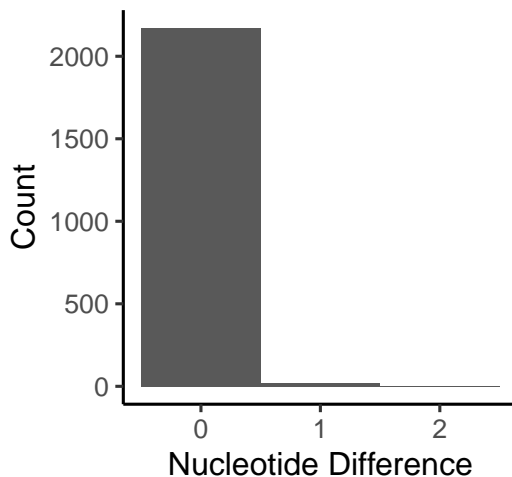
TRBV5-5*ap01

2686 sequences assigned
2668 (99.3%) exact matches, in which:
2647 unique CDR3
13 unique J



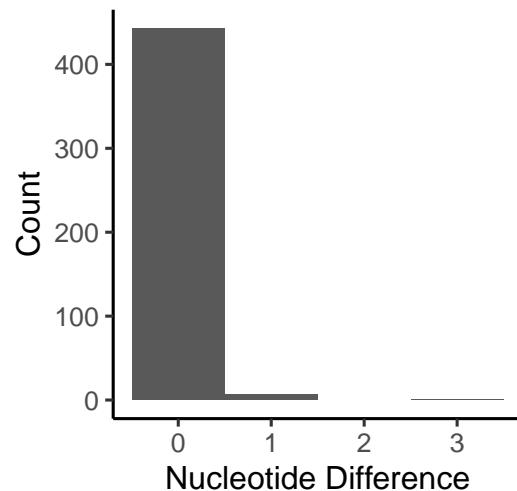
TRBV5-8*ap01

2195 sequences assigned
2171 (98.9%) exact matches, in which:
2140 unique CDR3
13 unique J



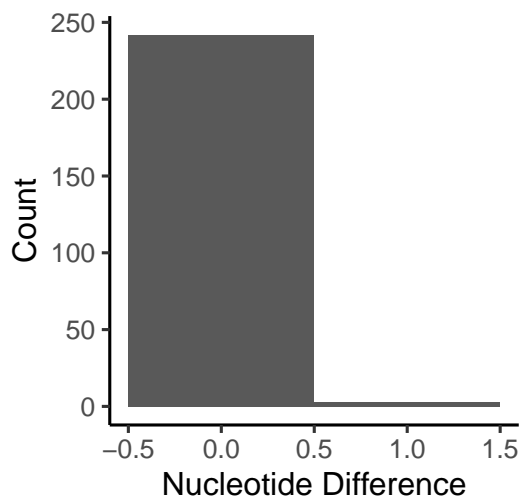
TRBV6-7*ap01

451 sequences assigned
443 (98.2%) exact matches, in which:
429 unique CDR3
13 unique J



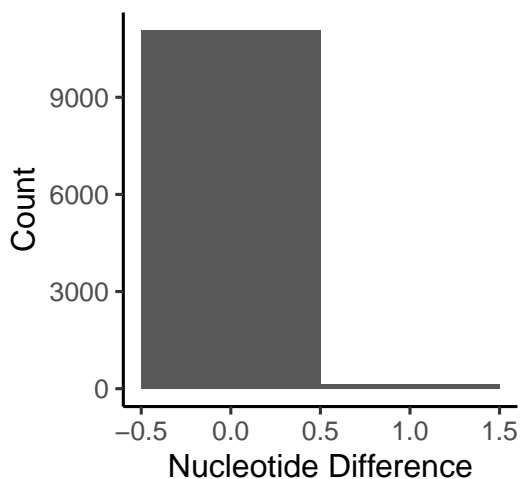
TRBV6–8*ap01

245 sequences assigned
242 (98.8%) exact matches, in which:
231 unique CDR3
13 unique J



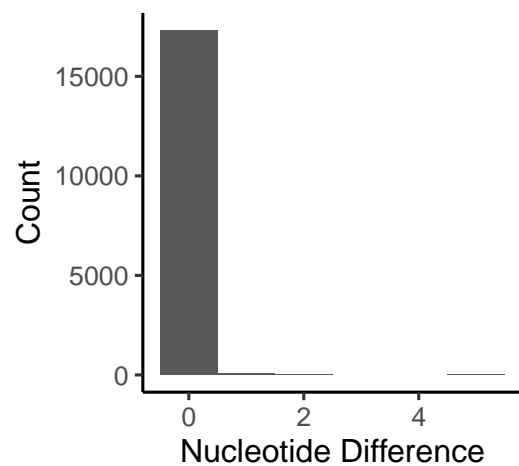
TRBV6–56*ap01

11191 sequences assigned
11065 (98.9%) exact matches, in which:
10798 unique CDR3
14 unique J



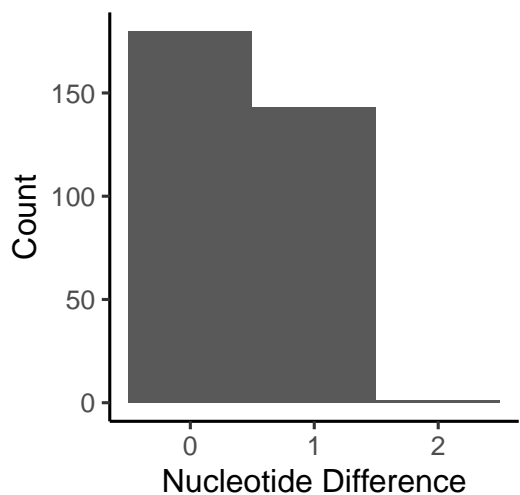
TRBV7–2*ap01

17419 sequences assigned
17321 (99.4%) exact matches, in which:
17125 unique CDR3
13 unique J



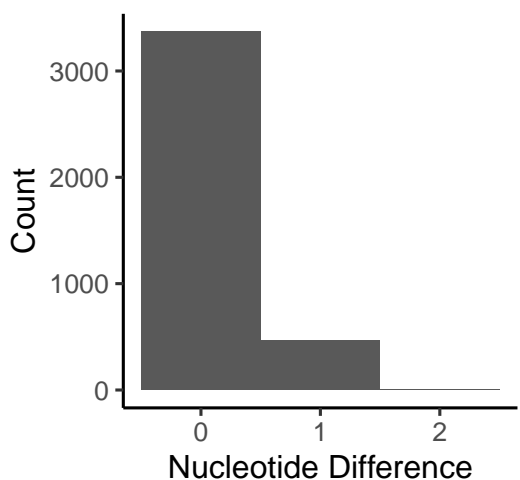
TRBV6–9*ap01

324 sequences assigned
180 (55.6%) exact matches, in which:
179 unique CDR3
12 unique J



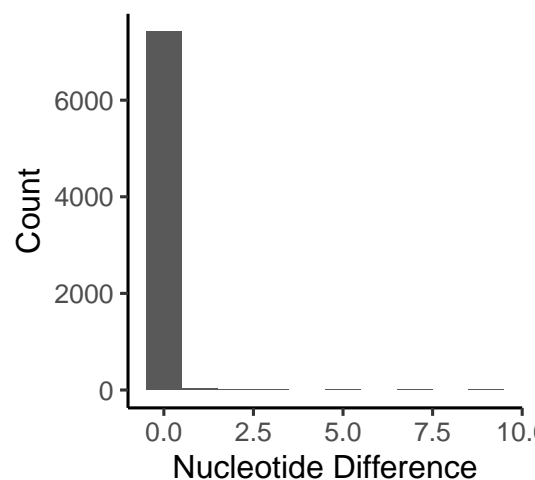
TRBV6–56*ap02

3839 sequences assigned
3369 (87.8%) exact matches, in which:
3306 unique CDR3
13 unique J



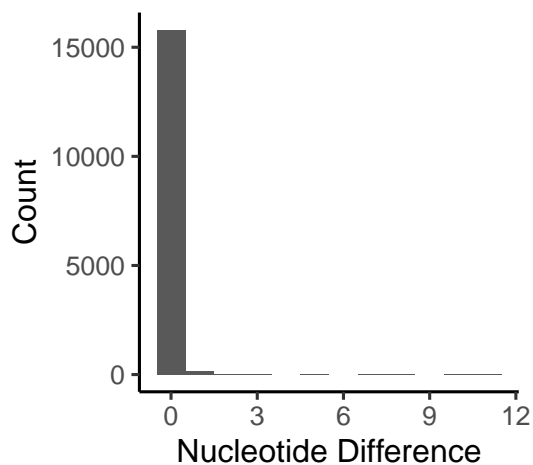
TRBV7–3*ap01

7462 sequences assigned
7417 (99.4%) exact matches, in which:
7355 unique CDR3
14 unique J



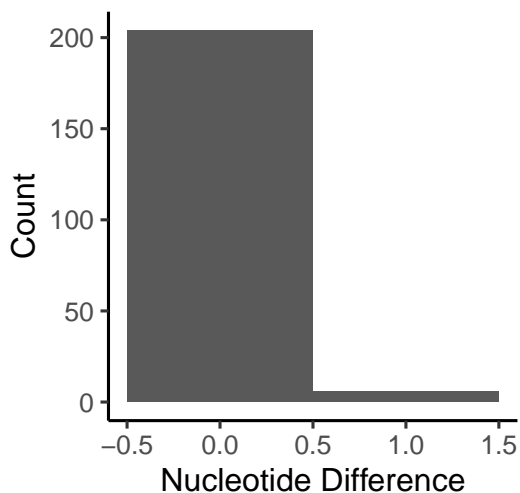
TRBV6–23*ap01

15993 sequences assigned
15801 (98.8%) exact matches, in which:
15345 unique CDR3
13 unique J



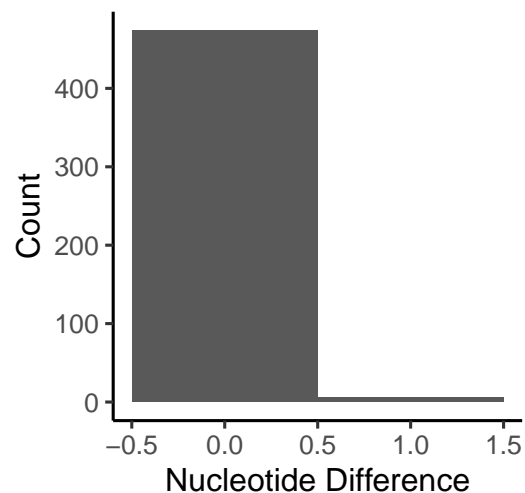
TRBV7–1*ap01_G291C_

210 sequences assigned
204 (97.1%) exact matches, in which:
204 unique CDR3
13 unique J



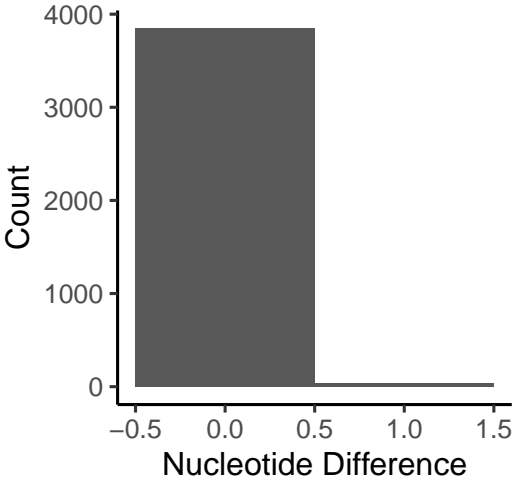
TRBV7–4*ap01

480 sequences assigned
474 (98.8%) exact matches, in which:
467 unique CDR3
13 unique J



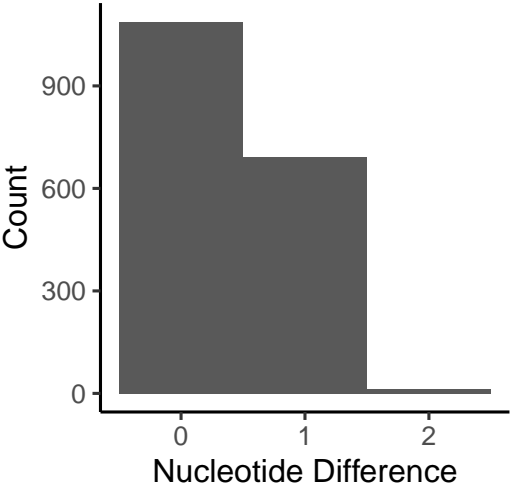
TRBV7-6*ap01

3885 sequences assigned
3847 (99%) exact matches, in which:
3780 unique CDR3
13 unique J



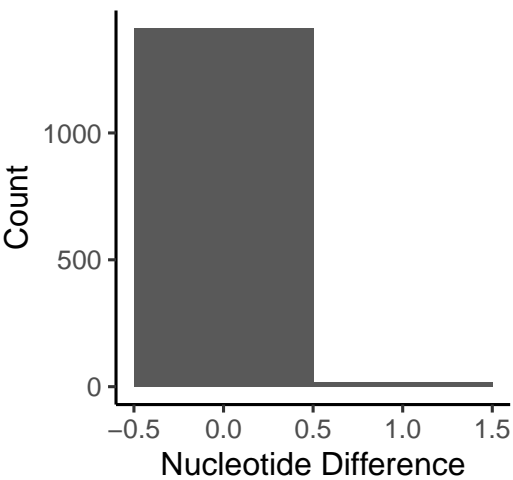
TRBV7-8*ap03

1792 sequences assigned
1088 (60.7%) exact matches, in which:
1068 unique CDR3
13 unique J



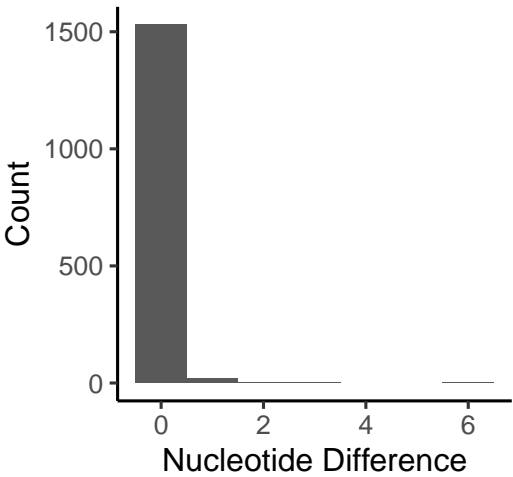
TRBV29-1*ap02

1430 sequences assigned
1412 (98.7%) exact matches, in which:
1382 unique CDR3
14 unique J



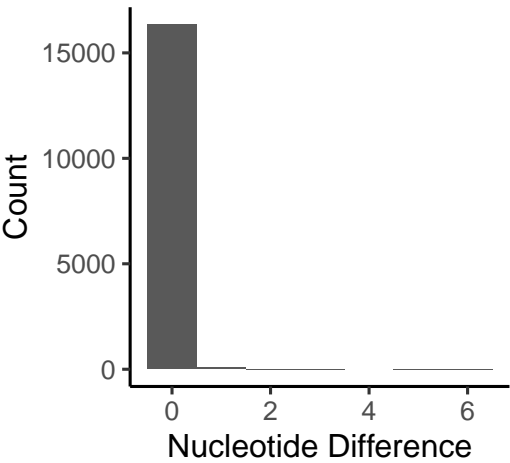
TRBV7-7*ap01_C315T

1551 sequences assigned
1530 (98.6%) exact matches, in which:
1509 unique CDR3
13 unique J



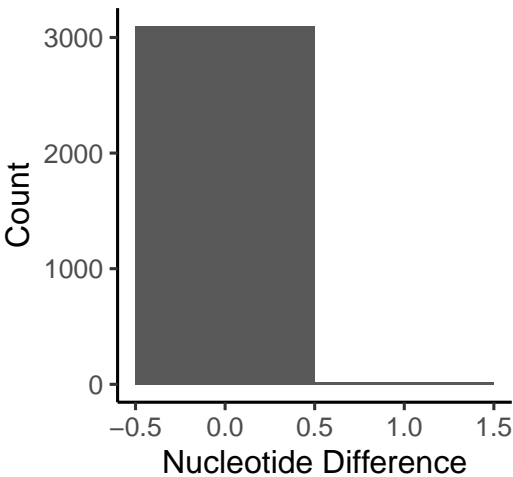
TRBV7-9*ap01

16444 sequences assigned
16347 (99.4%) exact matches, in which:
16134 unique CDR3
13 unique J



TRBV7-8*ap01

3119 sequences assigned
3099 (99.4%) exact matches, in which:
3044 unique CDR3
13 unique J



TRBV29-1*ap01

7047 sequences assigned
6972 (98.9%) exact matches, in which:
6796 unique CDR3
13 unique J

