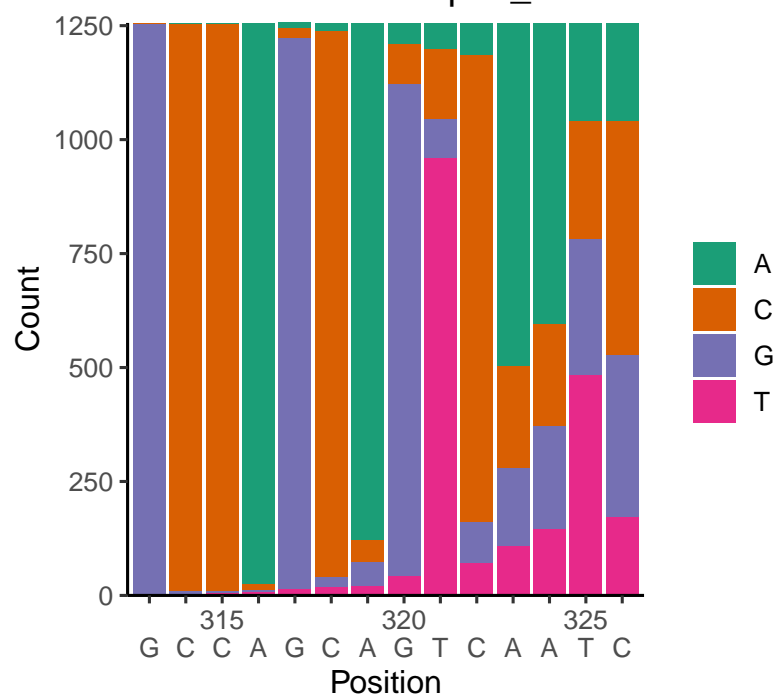
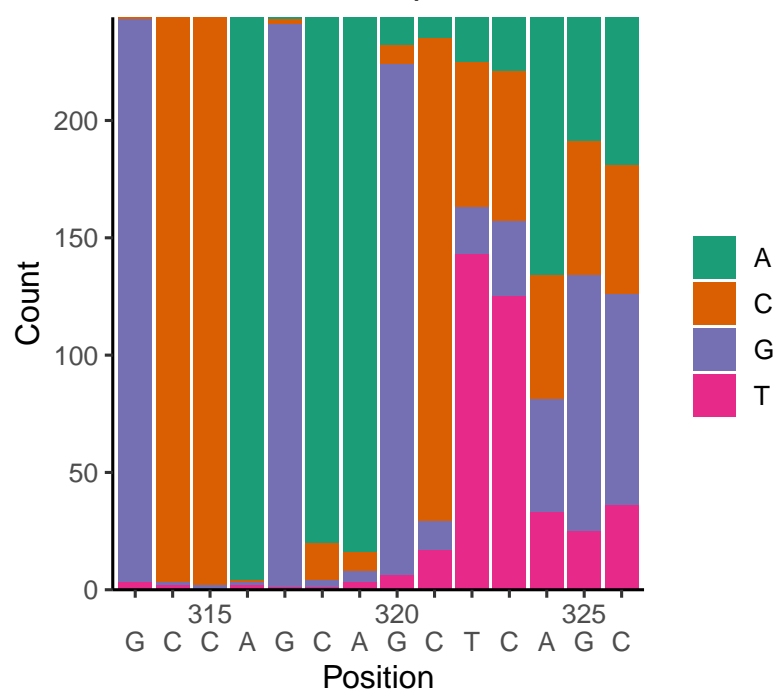


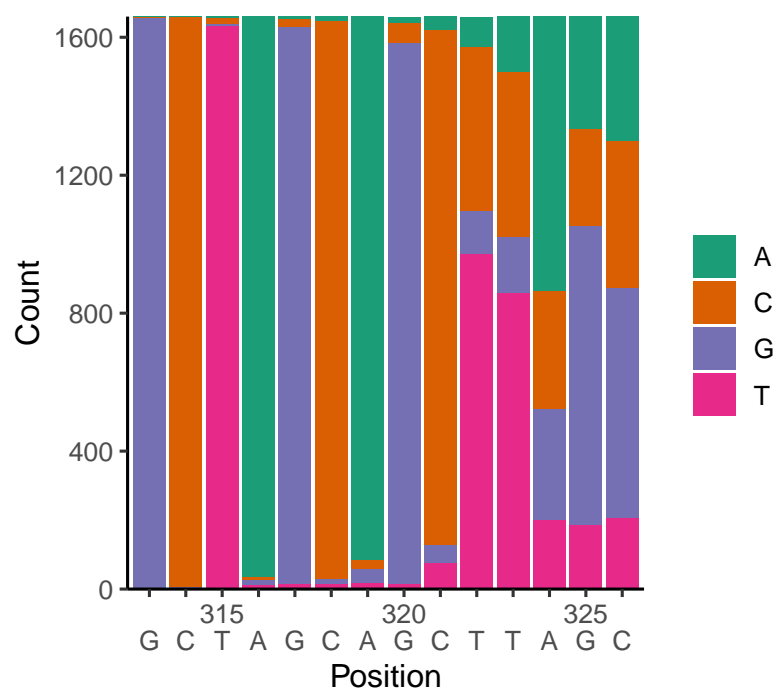
Gene TRBV23-1*ap01_T304C



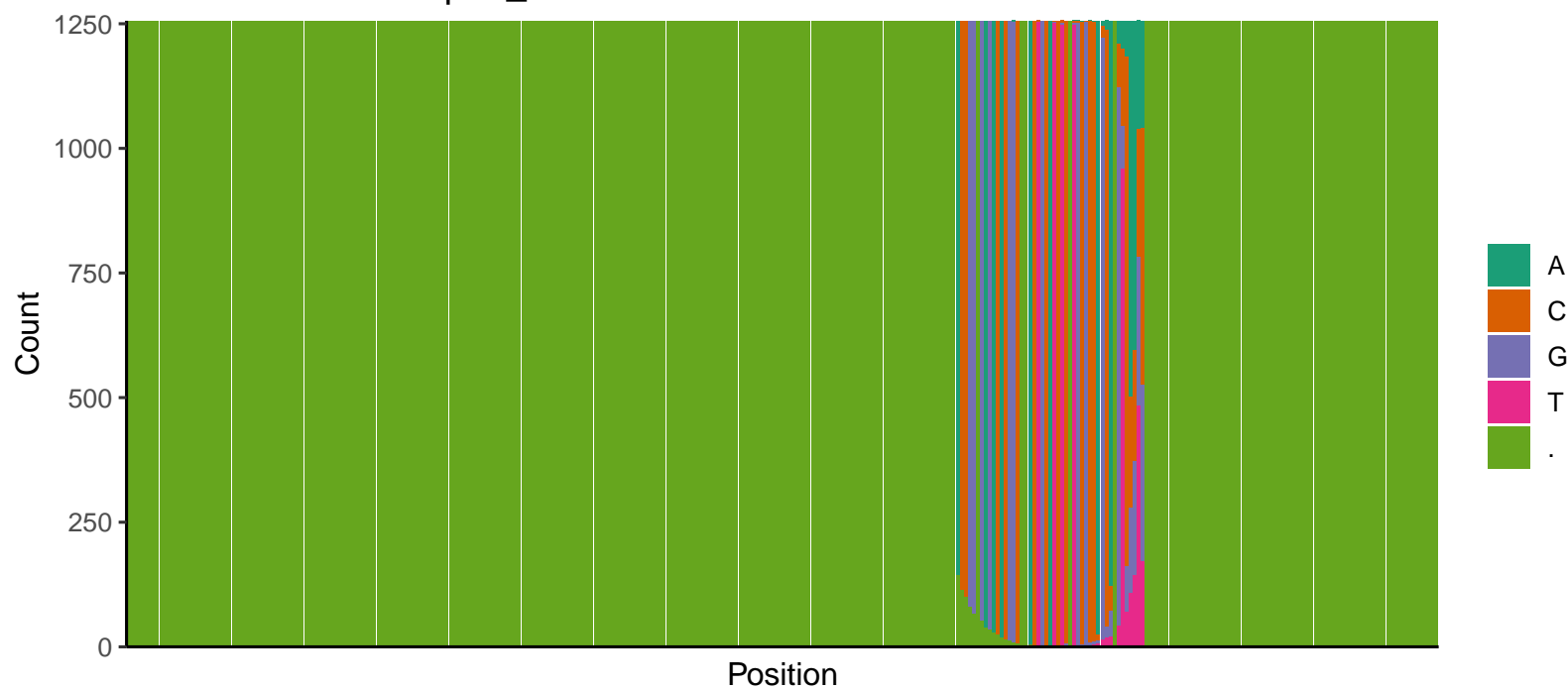
Gene TRBV7-1*ap01_G291C_T296C



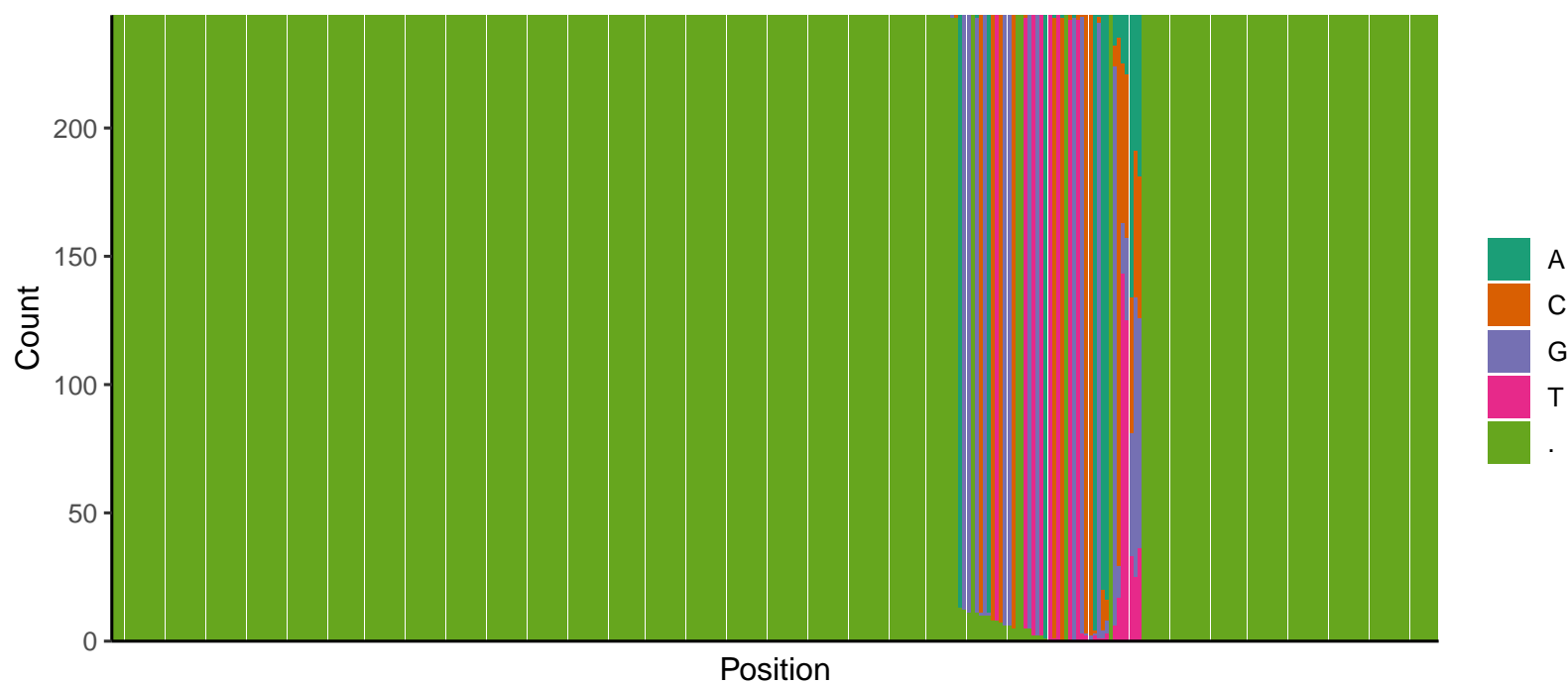
Gene TRBV7-7*ap01_C315T



Gene TRBV23-1*ap01_T304C



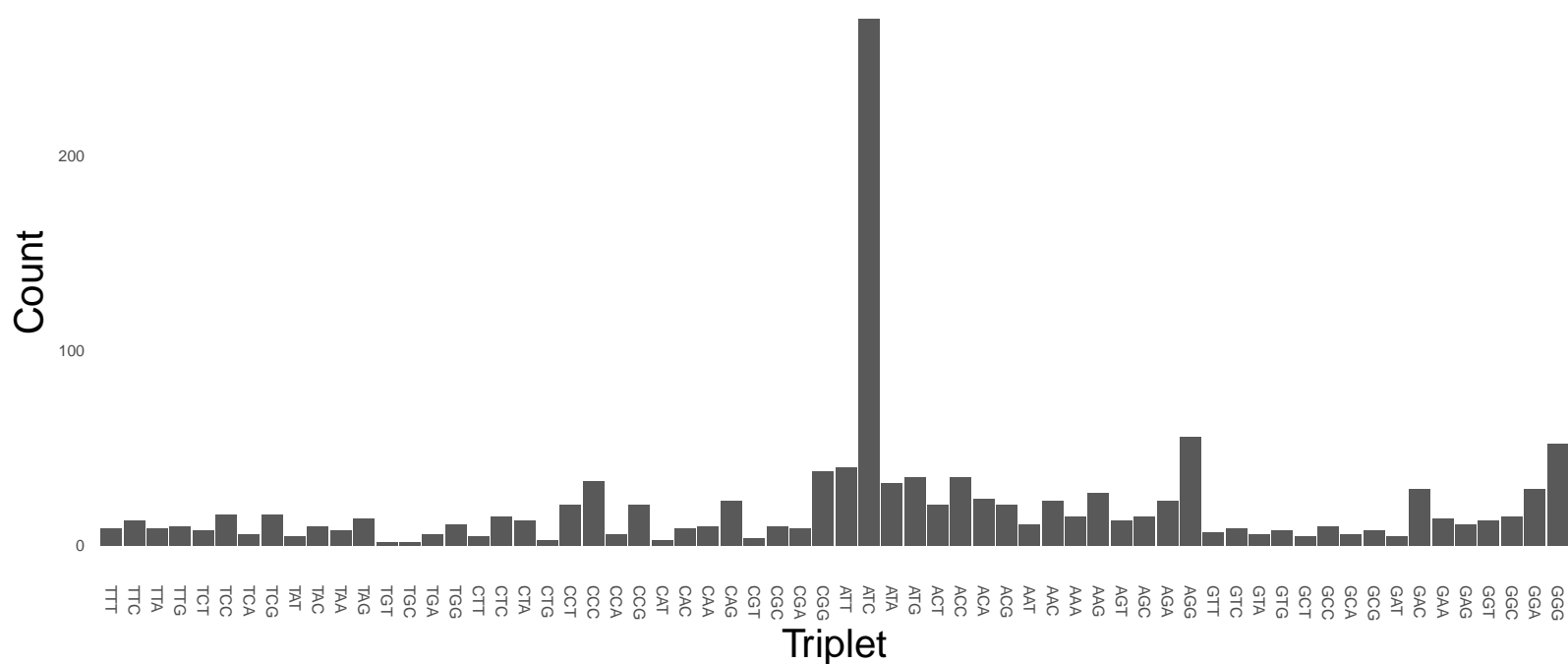
Gene TRBV7-1*ap01_G291C_T296C



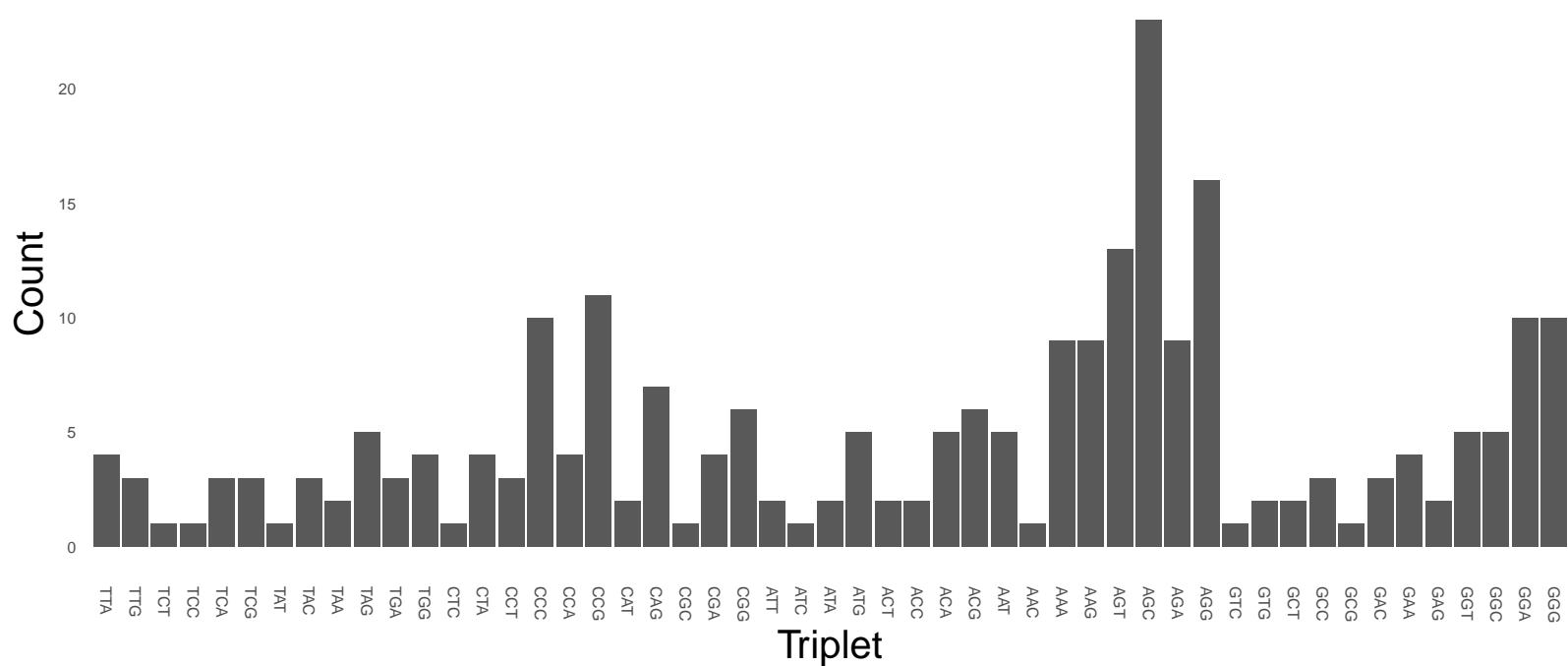
Gene TRBV7-7*ap01_C315T



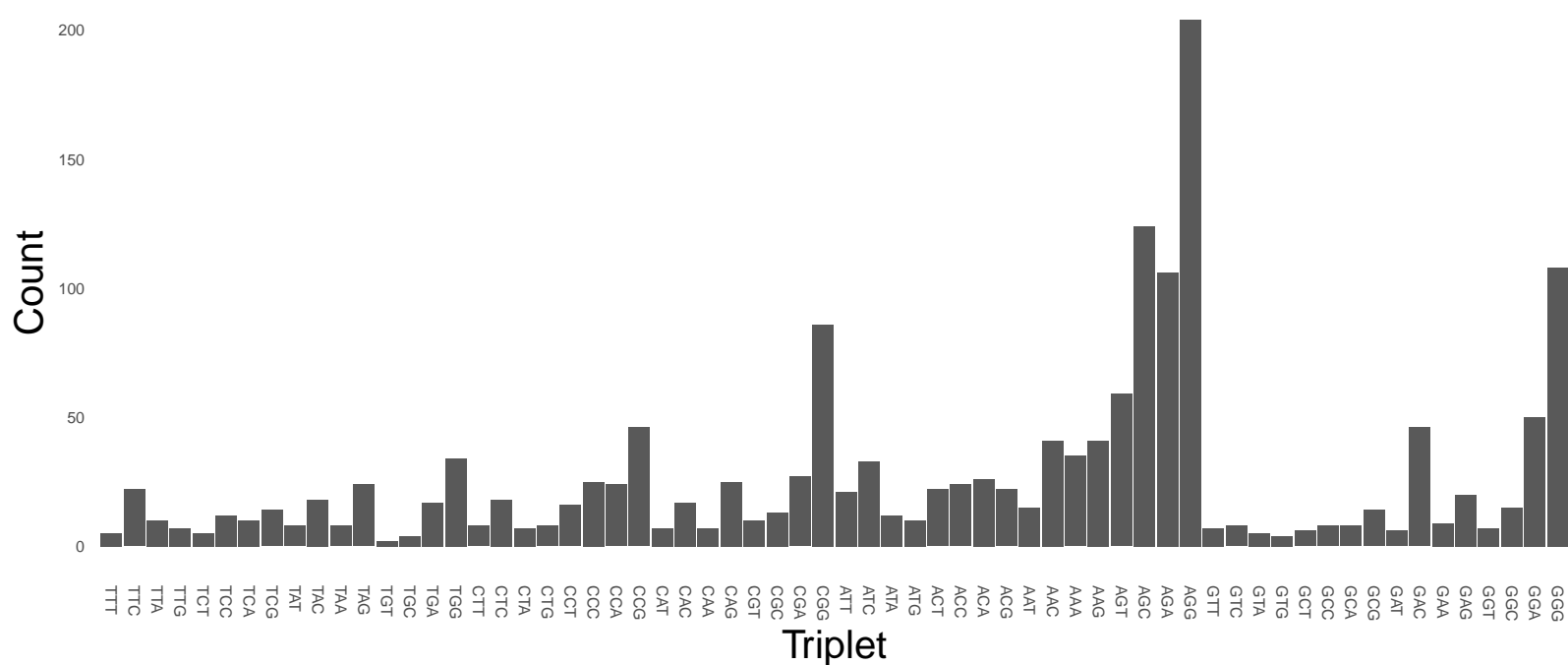
TRBV23–1*ap01_T304C– Final 3 nucleotides as a triplet



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

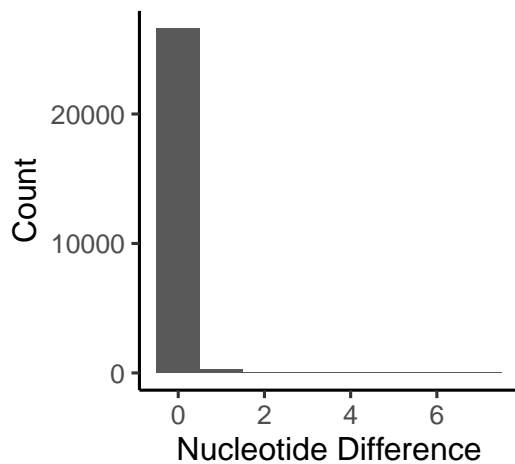


TRBV7–7*ap01_C315T– Final 3 nucleotides as a triplet



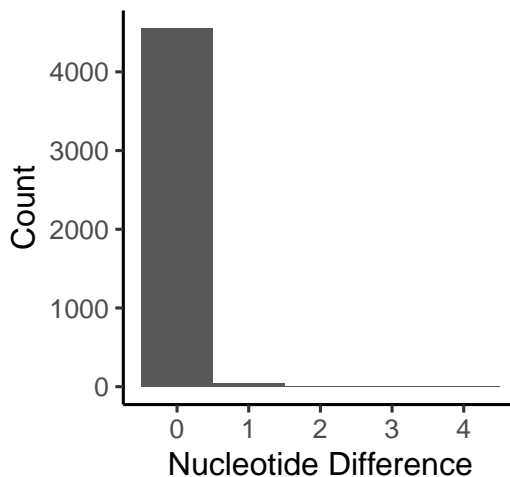
TRBV20-1*ap01

26935 sequences assigned
26630 (98.9%) exact matches, in which:
26445 unique CDR3
13 unique J



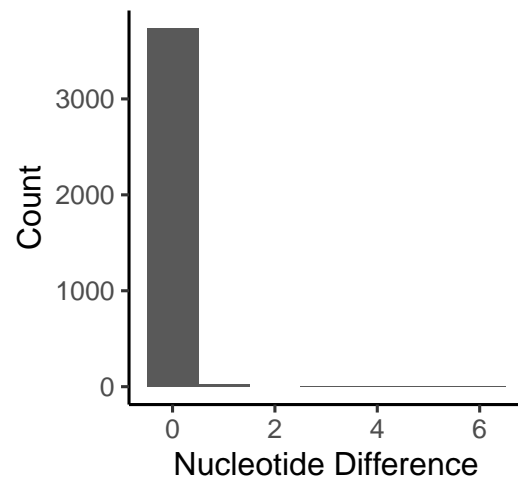
TRBV10-3*ap01

4606 sequences assigned
4552 (98.8%) exact matches, in which:
4515 unique CDR3
13 unique J



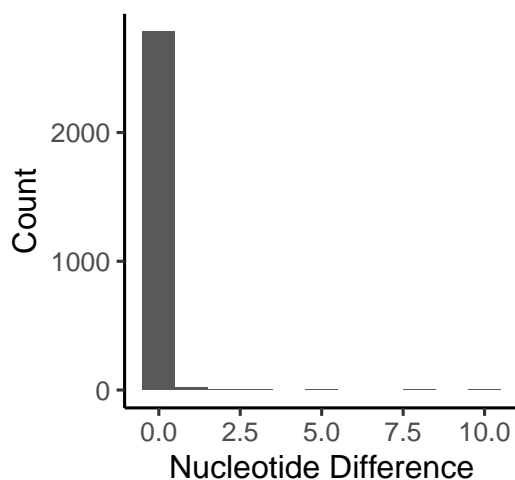
TRBV14*ap01

3764 sequences assigned
3735 (99.2%) exact matches, in which:
3708 unique CDR3
13 unique J



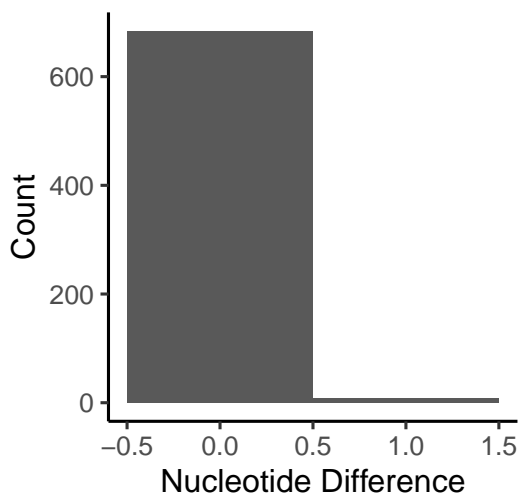
TRBV10-1*ap01

2811 sequences assigned
2783 (99%) exact matches, in which:
2756 unique CDR3
13 unique J



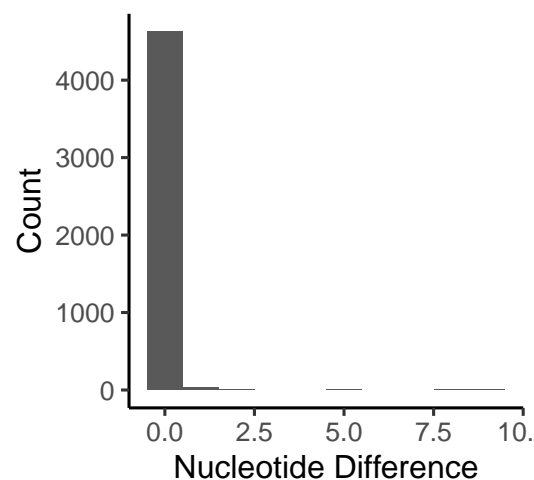
TRBV1*ap01

692 sequences assigned
684 (98.8%) exact matches, in which:
681 unique CDR3
13 unique J



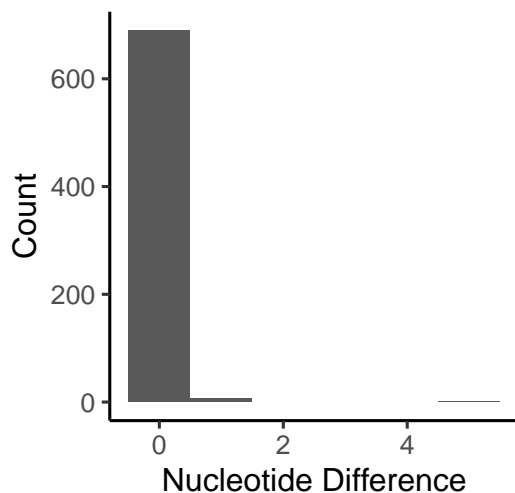
TRBV15*ap02

4666 sequences assigned
4625 (99.1%) exact matches, in which:
4578 unique CDR3
13 unique J



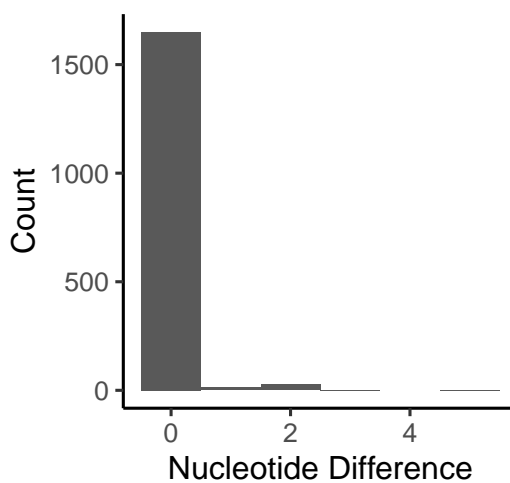
TRBV10-2*ap01

698 sequences assigned
690 (98.9%) exact matches, in which:
683 unique CDR3
13 unique J



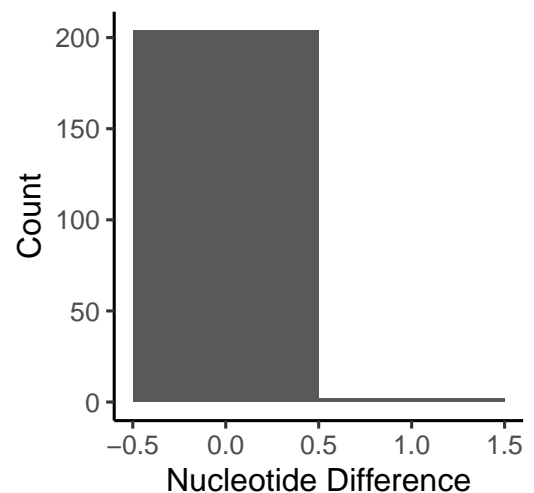
TRBV13*ap01

1693 sequences assigned
1650 (97.5%) exact matches, in which:
1634 unique CDR3
13 unique J



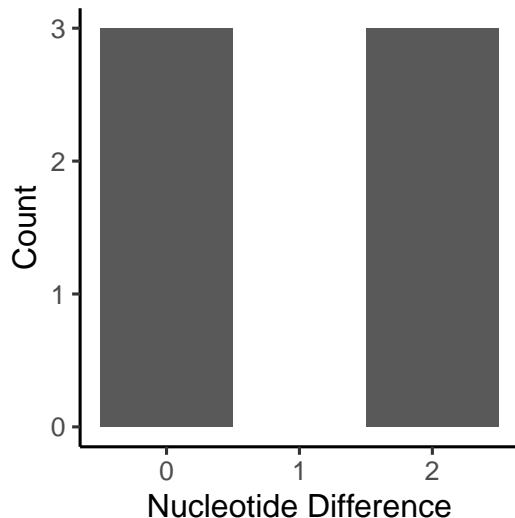
TRBV16*ap01

206 sequences assigned
204 (99%) exact matches, in which:
204 unique CDR3
13 unique J



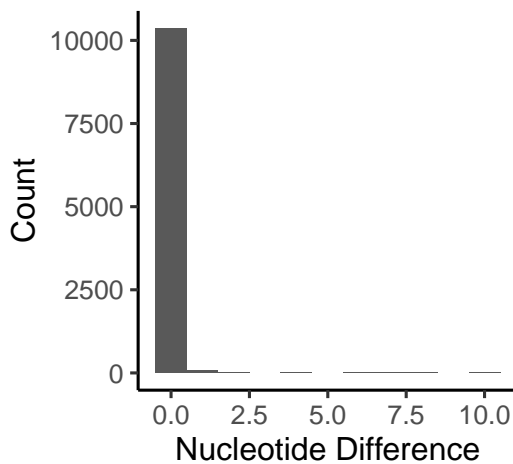
TRBV17*ap01

6 sequences assigned
3 (50%) exact matches, in which:
3 unique CDR3
3 unique J



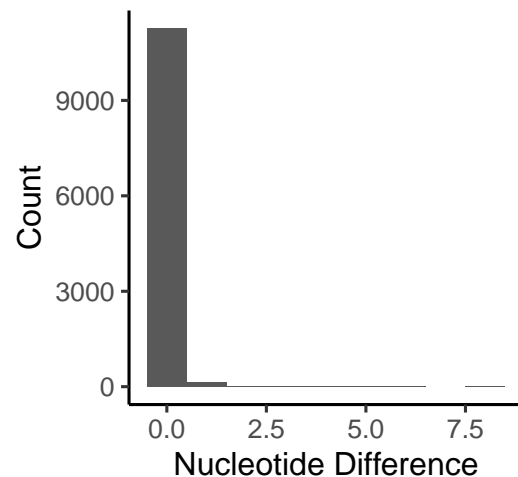
TRBV2*ap01

10467 sequences assigned
10368 (99.1%) exact matches, in which:
10299 unique CDR3
13 unique J



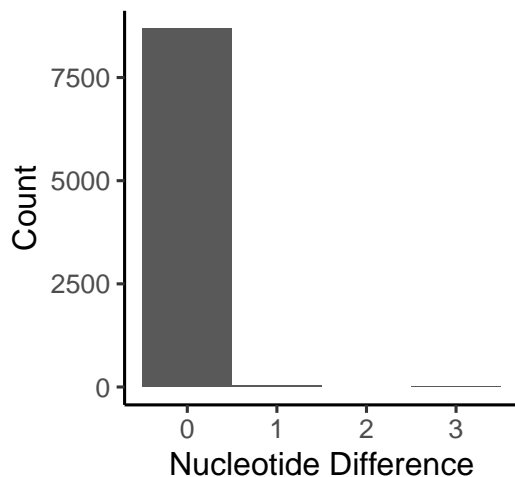
TRBV30*ap01

11424 sequences assigned
11264 (98.6%) exact matches, in which:
11200 unique CDR3
13 unique J



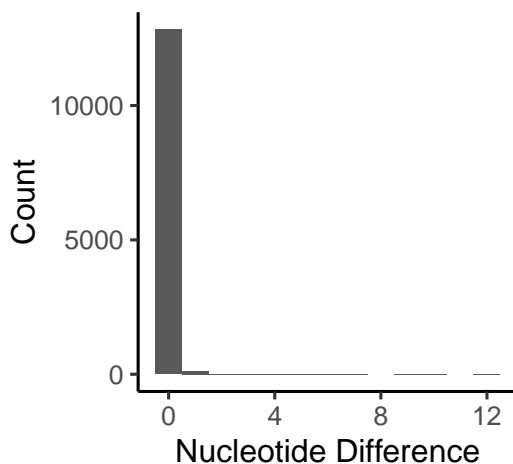
TRBV18*ap01

8718 sequences assigned
8683 (99.6%) exact matches, in which:
8641 unique CDR3
13 unique J



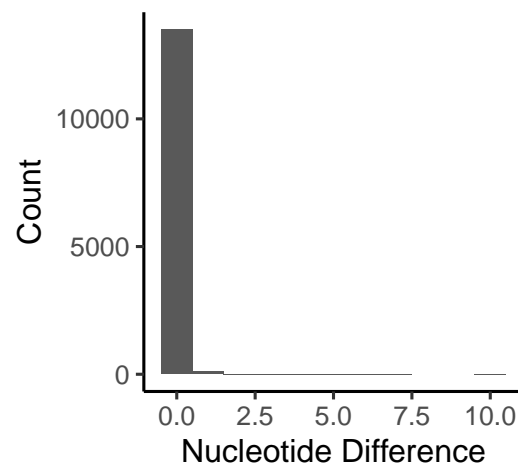
TRBV27*ap01

12974 sequences assigned
12831 (98.9%) exact matches, in which:
12704 unique CDR3
13 unique J



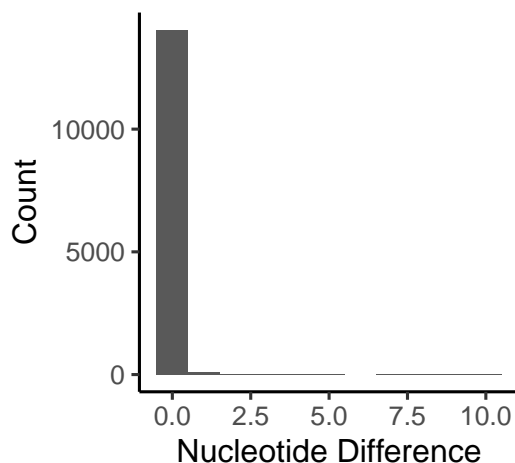
TRBV9*ap01

13616 sequences assigned
13500 (99.1%) exact matches, in which:
13372 unique CDR3
13 unique J



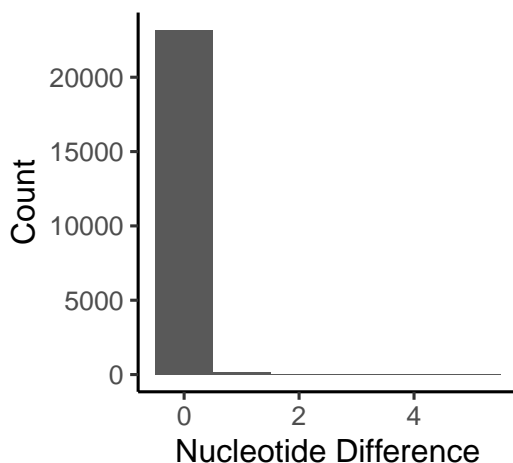
TRBV19*ap01

14156 sequences assigned
14047 (99.2%) exact matches, in which:
14005 unique CDR3
13 unique J



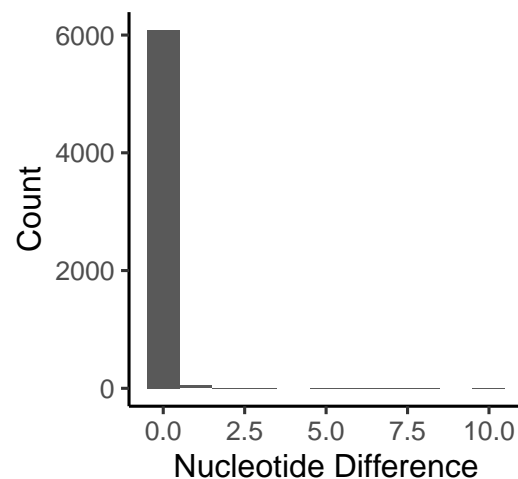
TRBV28*ap01

23372 sequences assigned
23192 (99.2%) exact matches, in which:
22977 unique CDR3
14 unique J



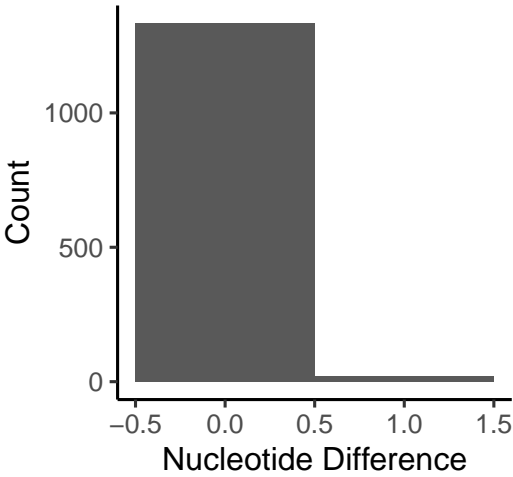
TRBV21-1*ap01

6160 sequences assigned
6085 (98.8%) exact matches, in which:
6055 unique CDR3
13 unique J



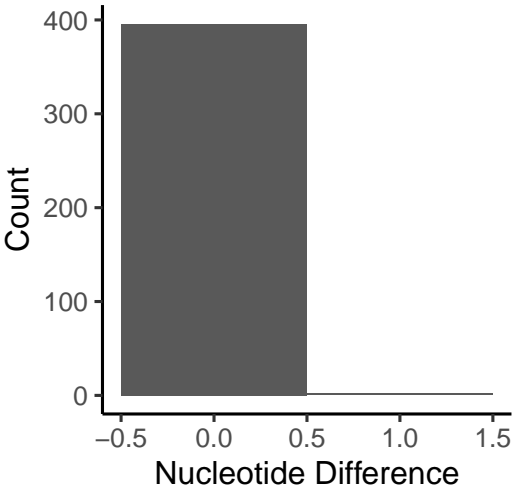
TRBV11-1*ap01

1352 sequences assigned
1333 (98.6%) exact matches, in which:
1318 unique CDR3
14 unique J



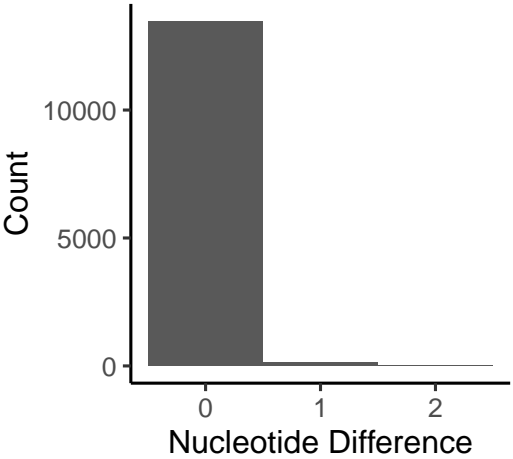
TRBV12-1*ap01

398 sequences assigned
396 (99.5%) exact matches, in which:
390 unique CDR3
13 unique J



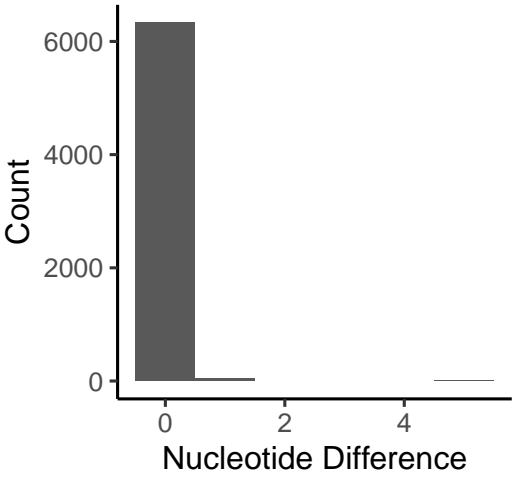
TRBV12-34*ap01

13600 sequences assigned
13474 (99.1%) exact matches, in which:
13368 unique CDR3
13 unique J



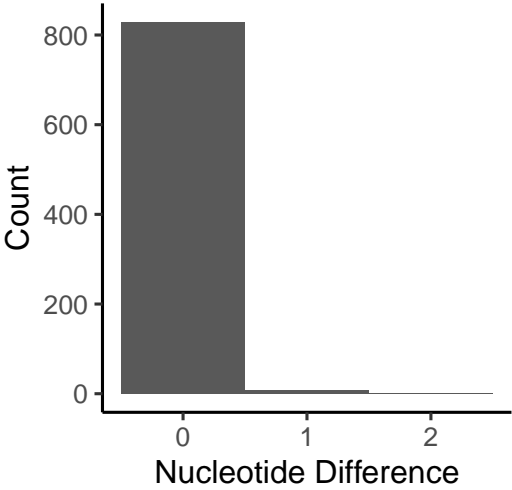
TRBV11-2*ap01

6378 sequences assigned
6331 (99.3%) exact matches, in which:
6266 unique CDR3
13 unique J



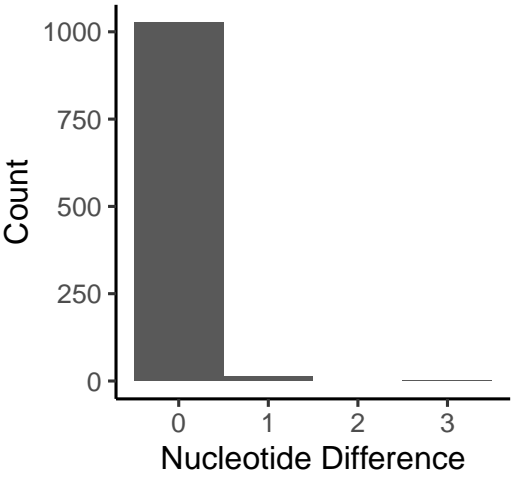
TRBV12-2*ap01

837 sequences assigned
829 (99%) exact matches, in which:
819 unique CDR3
13 unique J



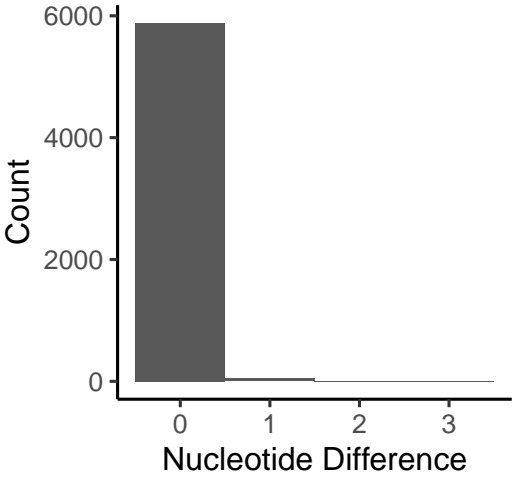
TRBV23-1*ap01

1040 sequences assigned
1026 (98.7%) exact matches, in which:
1023 unique CDR3
13 unique J



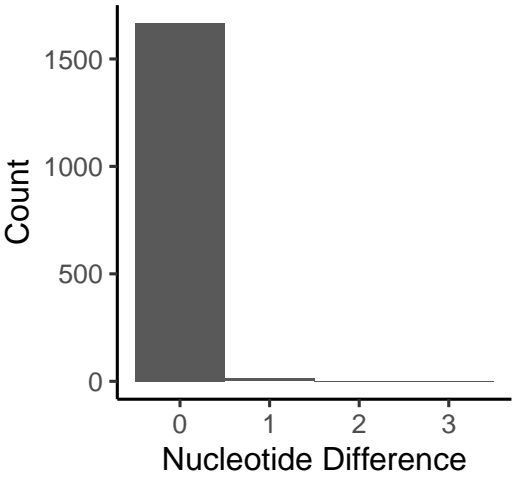
TRBV11-3*ap01

5934 sequences assigned
5881 (99.1%) exact matches, in which:
5826 unique CDR3
13 unique J



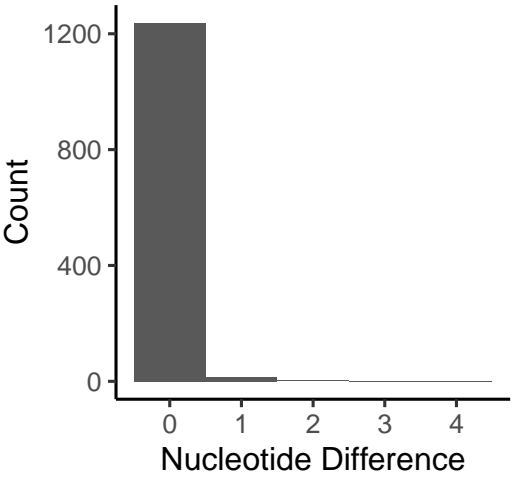
TRBV12-5*ap01

1684 sequences assigned
1667 (99%) exact matches, in which:
1655 unique CDR3
13 unique J



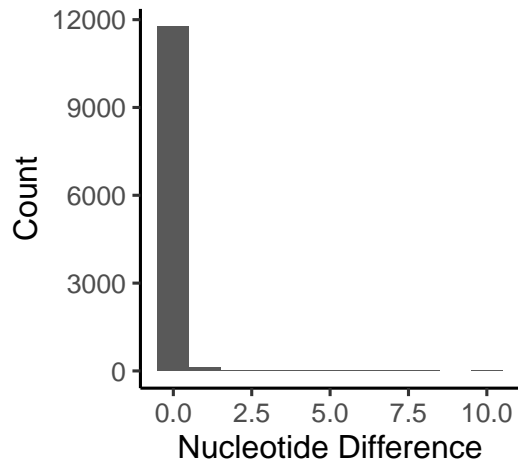
TRBV23-1*ap01_T304C

1256 sequences assigned
1237 (98.5%) exact matches, in which:
1223 unique CDR3
13 unique J



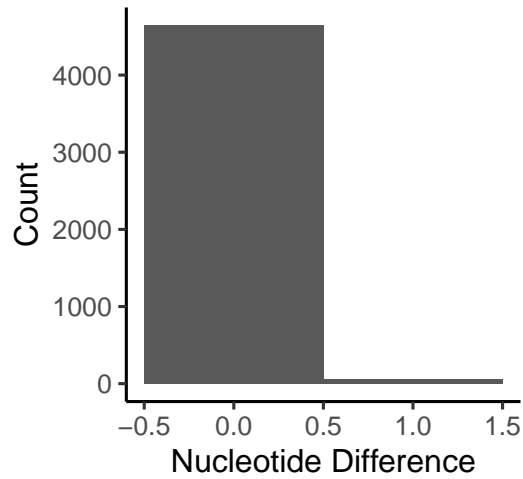
TRBV3-12*ap01

11900 sequences assigned
11778 (99%) exact matches, in which:
11685 unique CDR3
13 unique J



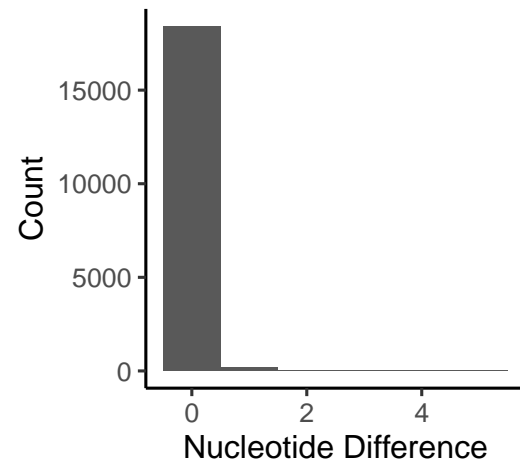
TRBV4-2*ap01

4698 sequences assigned
4644 (98.9%) exact matches, in which:
4610 unique CDR3
13 unique J



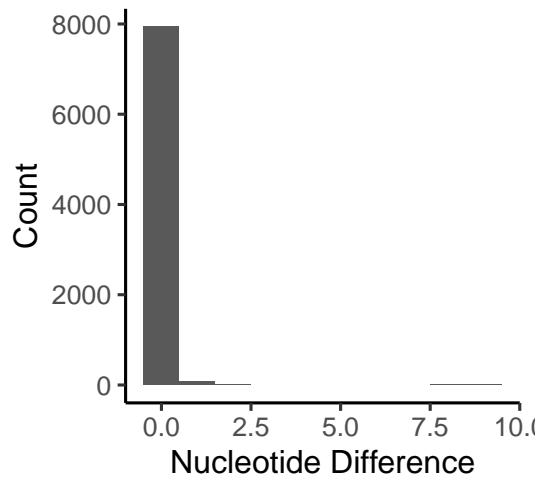
TRBV5-1*ap01

18600 sequences assigned
18417 (99%) exact matches, in which:
18234 unique CDR3
13 unique J



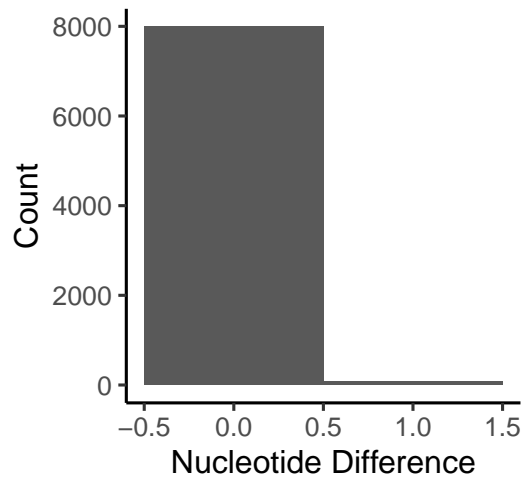
TRBV24-1*ap01

8023 sequences assigned
7939 (99%) exact matches, in which:
7886 unique CDR3
14 unique J



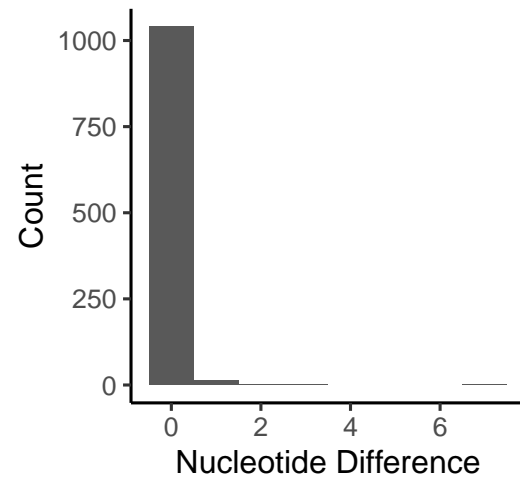
TRBV4-3*ap01

8059 sequences assigned
7991 (99.2%) exact matches, in which:
7925 unique CDR3
13 unique J



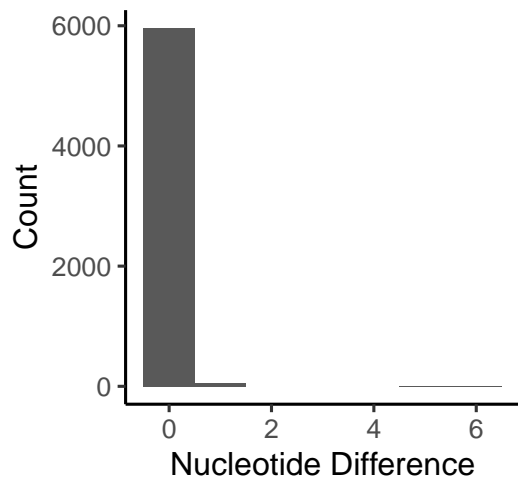
TRBV5-3*ap01

1056 sequences assigned
1040 (98.5%) exact matches, in which:
1028 unique CDR3
13 unique J



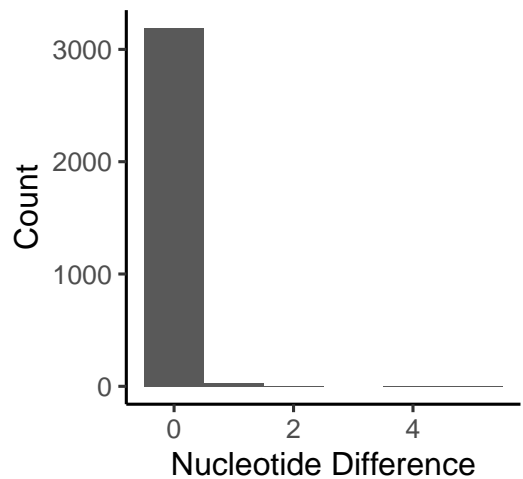
TRBV4-1*ap01

6014 sequences assigned
5962 (99.1%) exact matches, in which:
5899 unique CDR3
13 unique J



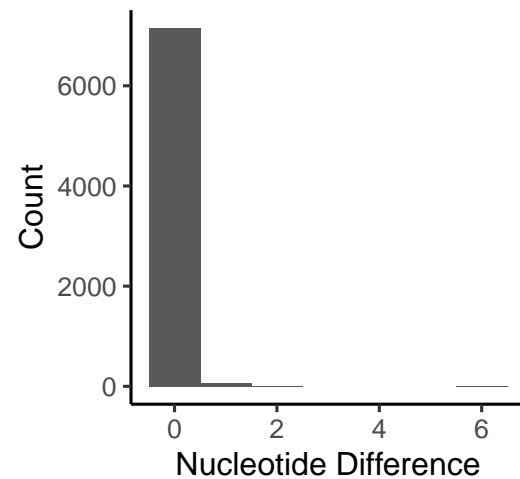
TRBV25-1*ap01

3227 sequences assigned
3190 (98.9%) exact matches, in which:
3172 unique CDR3
13 unique J



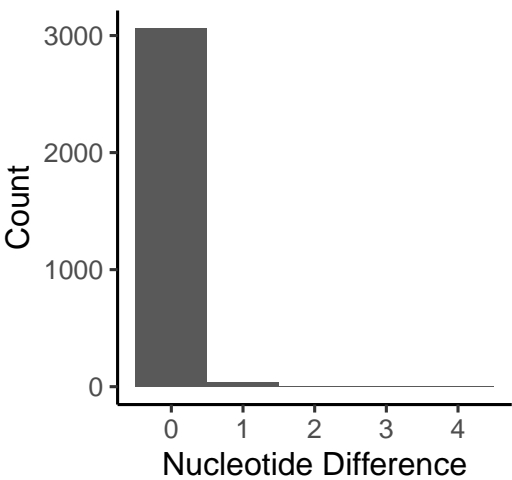
TRBV5-4*ap01

7217 sequences assigned
7153 (99.1%) exact matches, in which:
7075 unique CDR3
13 unique J



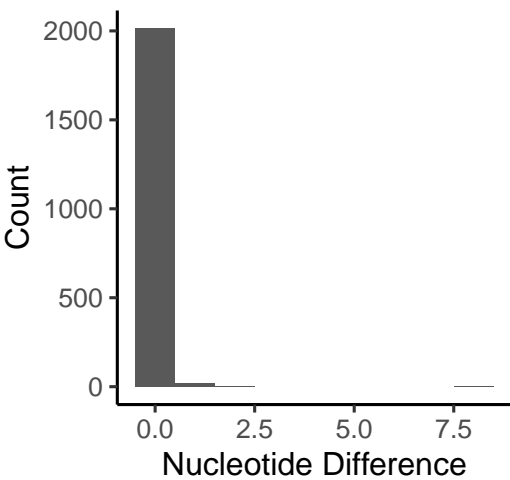
TRBV5-5*ap01

3105 sequences assigned
3061 (98.6%) exact matches, in which:
3030 unique CDR3
13 unique J



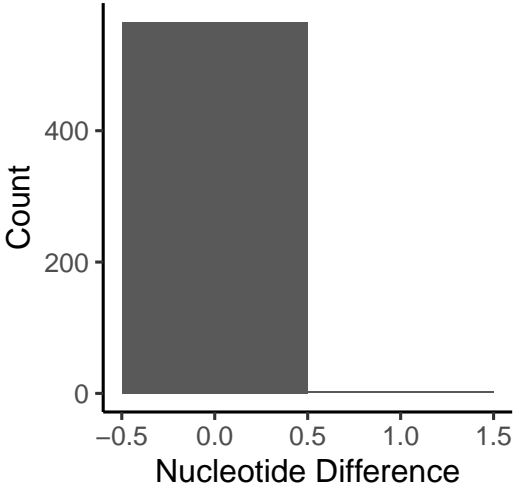
TRBV5-8*ap01

2035 sequences assigned
2014 (99%) exact matches, in which:
1986 unique CDR3
13 unique J



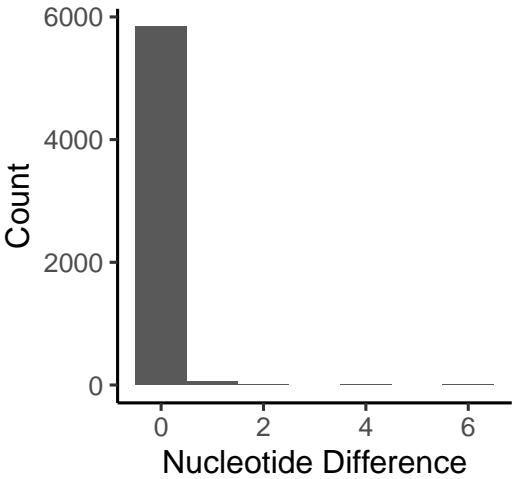
TRBV6-7*ap01

569 sequences assigned
566 (99.5%) exact matches, in which:
558 unique CDR3
13 unique J



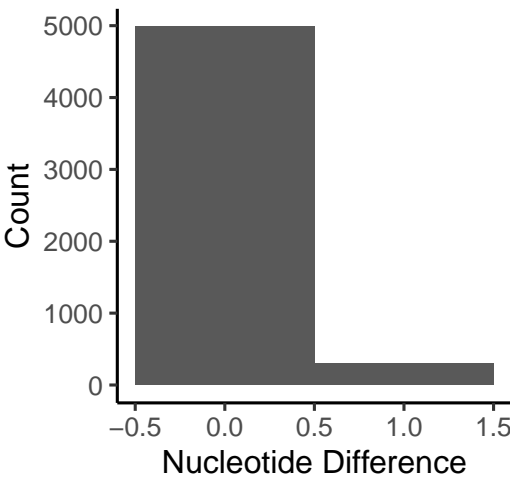
TRBV5-6*ap01

5906 sequences assigned
5840 (98.9%) exact matches, in which:
5788 unique CDR3
13 unique J



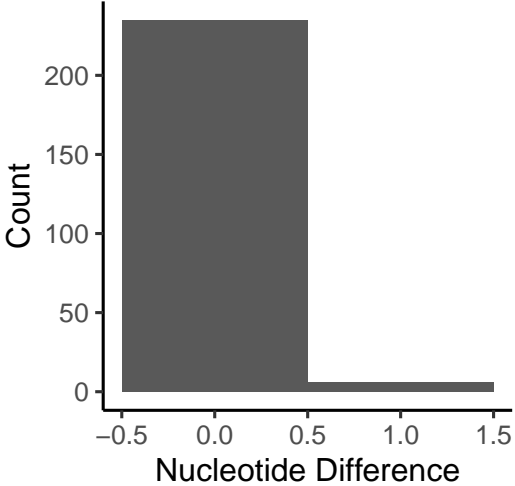
TRBV6-1*ap01

5283 sequences assigned
4985 (94.4%) exact matches, in which:
4941 unique CDR3
13 unique J



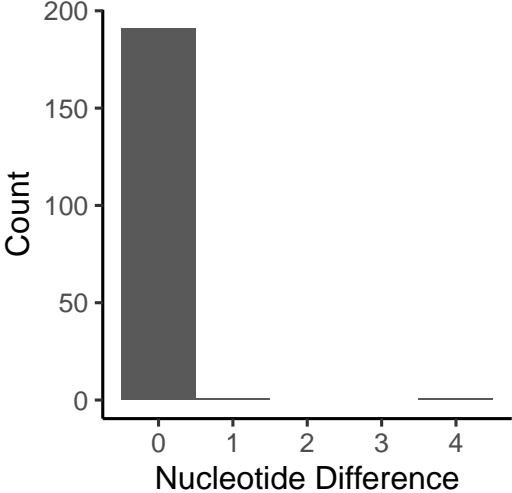
TRBV6-8*ap01

241 sequences assigned
235 (97.5%) exact matches, in which:
233 unique CDR3
13 unique J



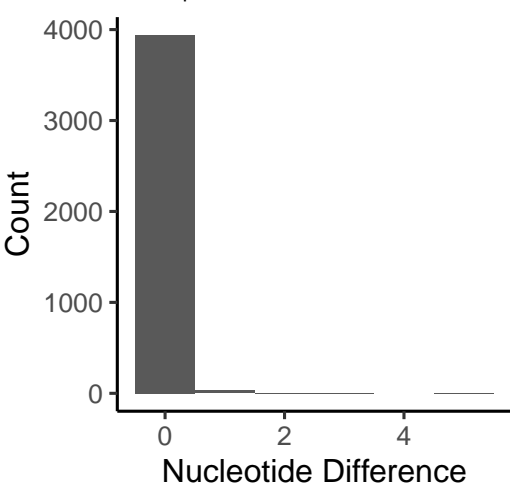
TRBV5-7*ap01

193 sequences assigned
191 (99%) exact matches, in which:
191 unique CDR3
13 unique J



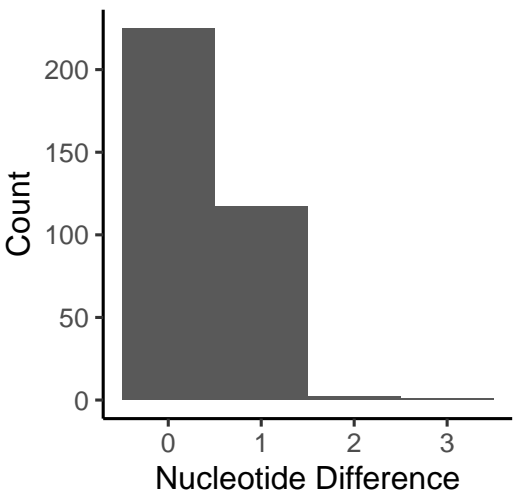
TRBV6-4*ap01

3978 sequences assigned
3940 (99%) exact matches, in which:
3914 unique CDR3
13 unique J



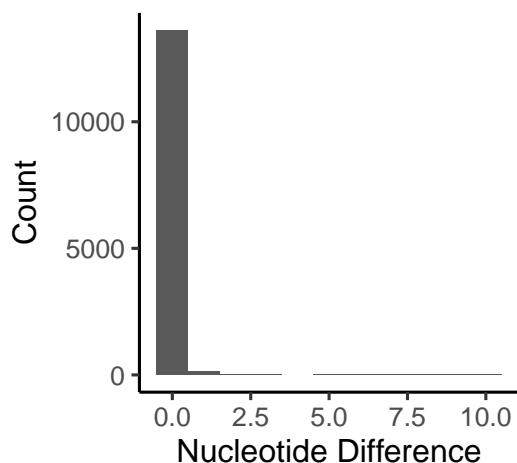
TRBV6-9*ap01

345 sequences assigned
225 (65.2%) exact matches, in which:
224 unique CDR3
13 unique J



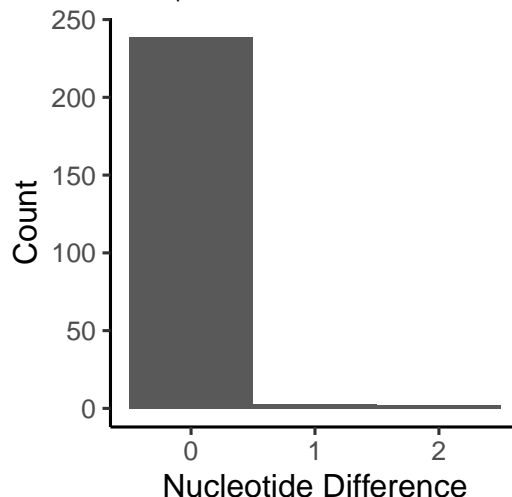
TRBV6-23*ap01

13757 sequences assigned
13618 (99%) exact matches, in which:
13509 unique CDR3
14 unique J



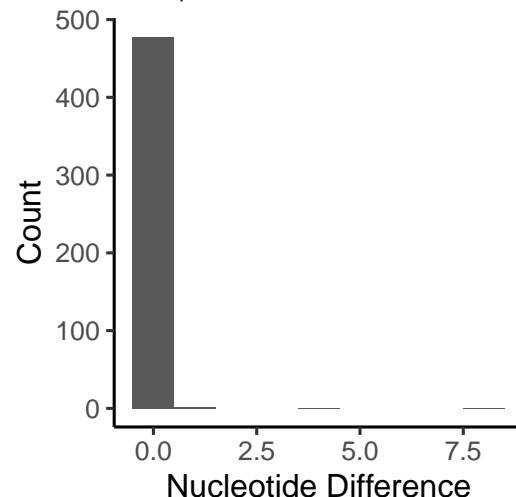
TRBV7-1*ap01_G291C_

244 sequences assigned
239 (98%) exact matches, in which:
238 unique CDR3
13 unique J



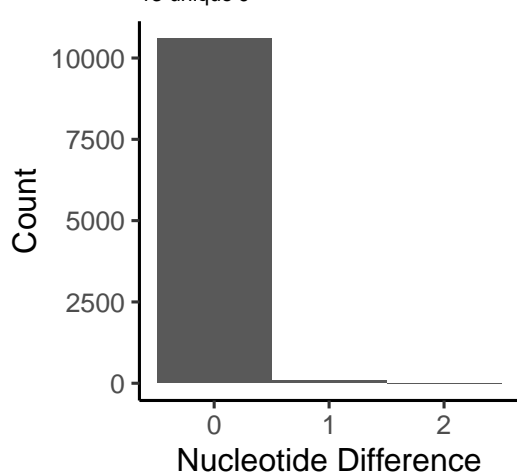
TRBV7-4*ap01

482 sequences assigned
478 (99.2%) exact matches, in which:
476 unique CDR3
13 unique J



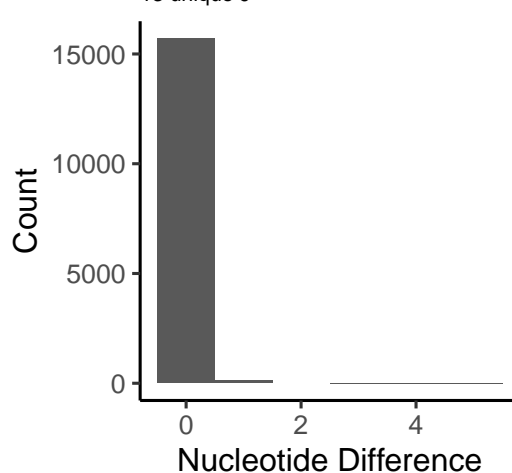
TRBV6-56*ap01

10691 sequences assigned
10601 (99.2%) exact matches, in which:
10506 unique CDR3
13 unique J



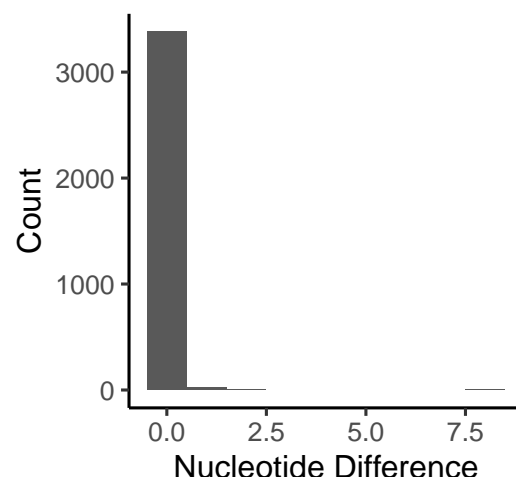
TRBV7-2*ap01

15829 sequences assigned
15706 (99.2%) exact matches, in which:
15584 unique CDR3
13 unique J



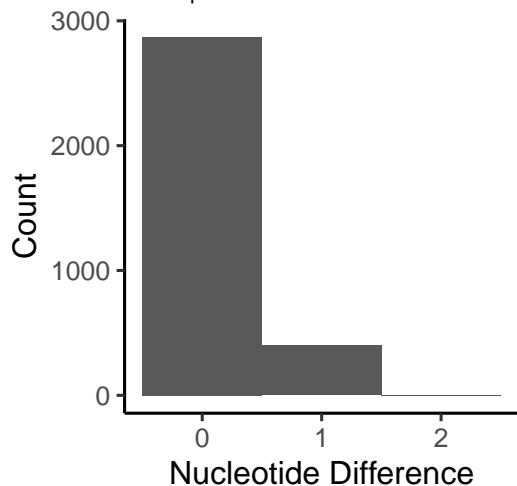
TRBV7-6*ap01

3403 sequences assigned
3381 (99.4%) exact matches, in which:
3344 unique CDR3
13 unique J



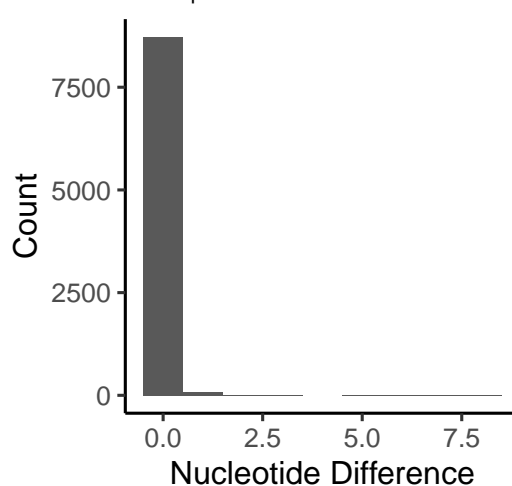
TRBV6-56*ap02

3273 sequences assigned
2870 (87.7%) exact matches, in which:
2842 unique CDR3
13 unique J



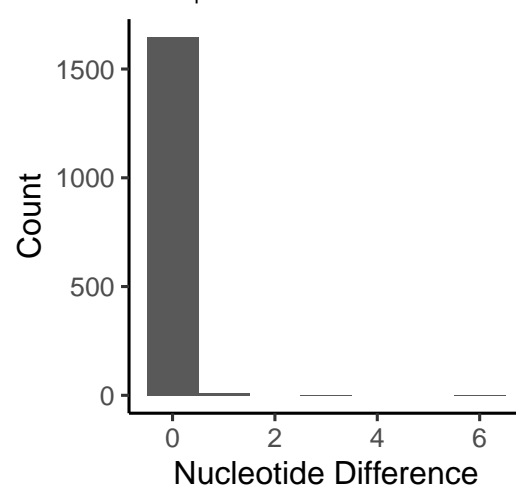
TRBV7-3*ap01

8809 sequences assigned
8722 (99%) exact matches, in which:
8655 unique CDR3
13 unique J



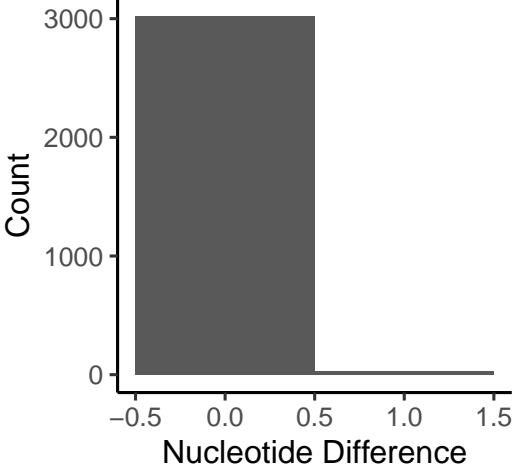
TRBV7-7*ap01_C315T

1660 sequences assigned
1647 (99.2%) exact matches, in which:
1636 unique CDR3
13 unique J



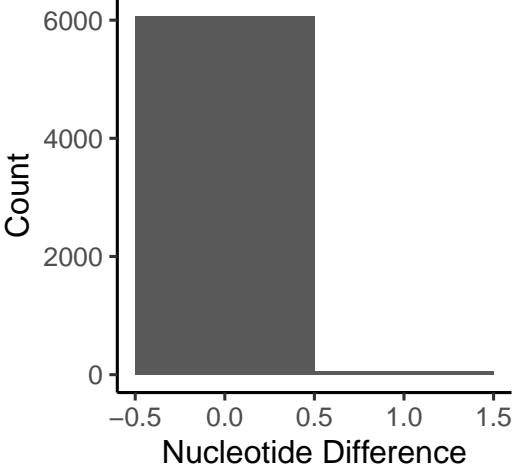
TRBV7-8*ap01

3047 sequences assigned
3019 (99.1%) exact matches, in which:
2984 unique CDR3
13 unique J



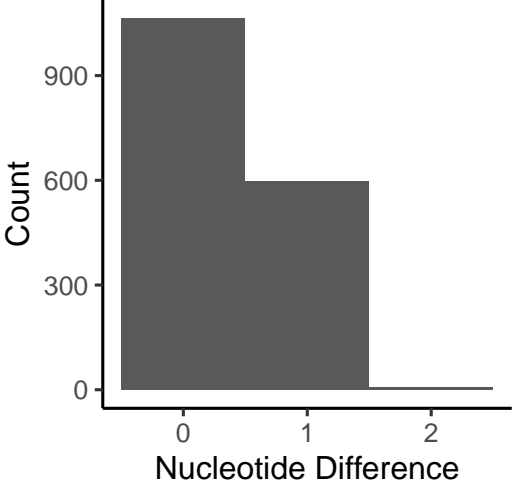
TRBV29-1*ap01

6115 sequences assigned
6063 (99.1%) exact matches, in which:
6016 unique CDR3
13 unique J



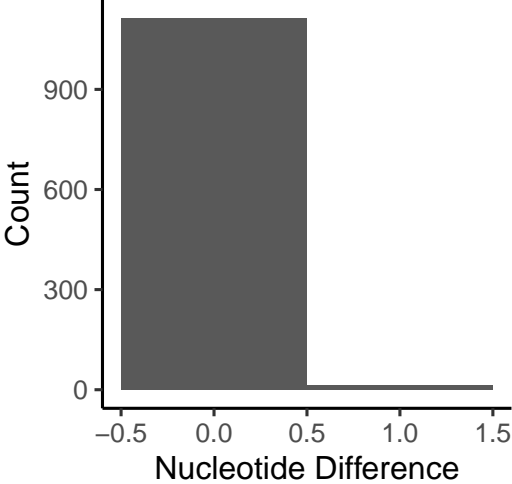
TRBV7-8*ap03

1668 sequences assigned
1065 (63.8%) exact matches, in which:
1053 unique CDR3
13 unique J



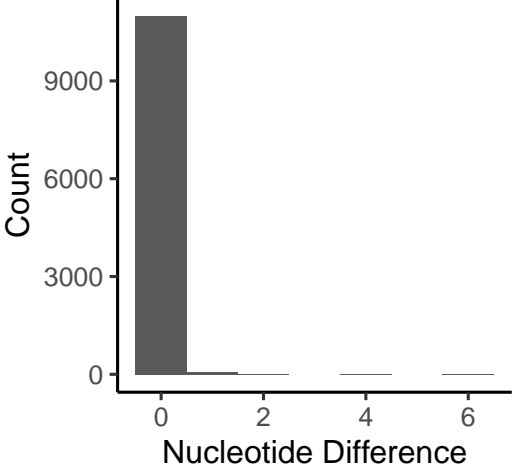
TRBV29-1*ap02

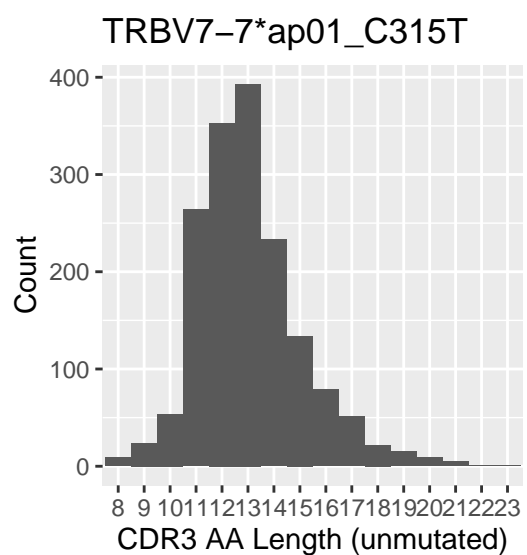
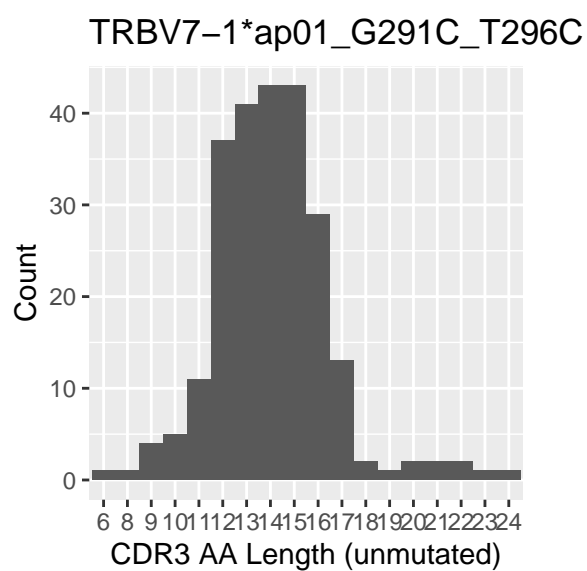
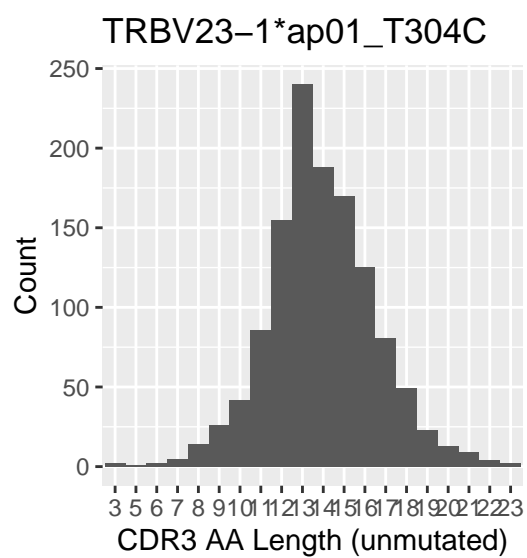
1128 sequences assigned
1114 (98.8%) exact matches, in which:
1105 unique CDR3
13 unique J



TRBV7-9*ap01

11056 sequences assigned
10989 (99.4%) exact matches, in which:
10938 unique CDR3
13 unique J







[illegible]