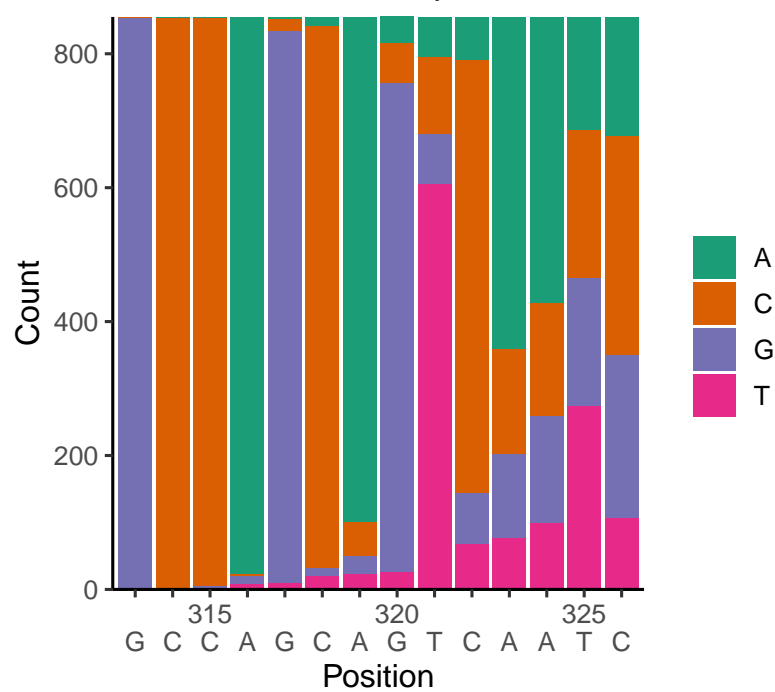
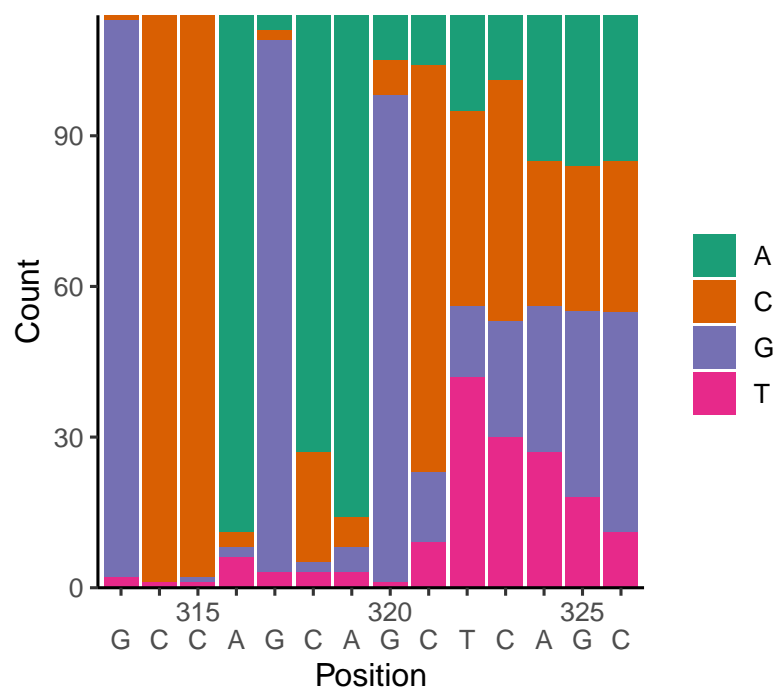


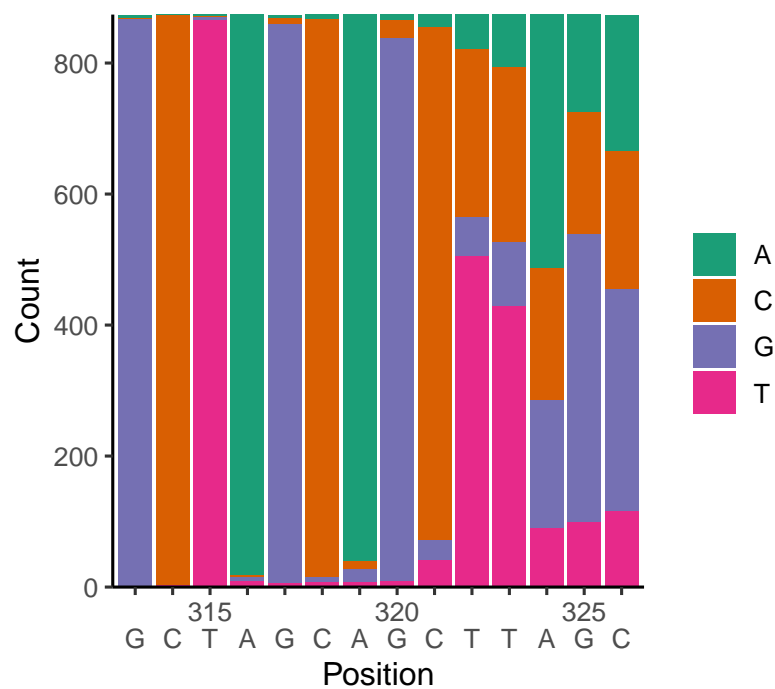
Gene TRBV23-1*ap01_T304C



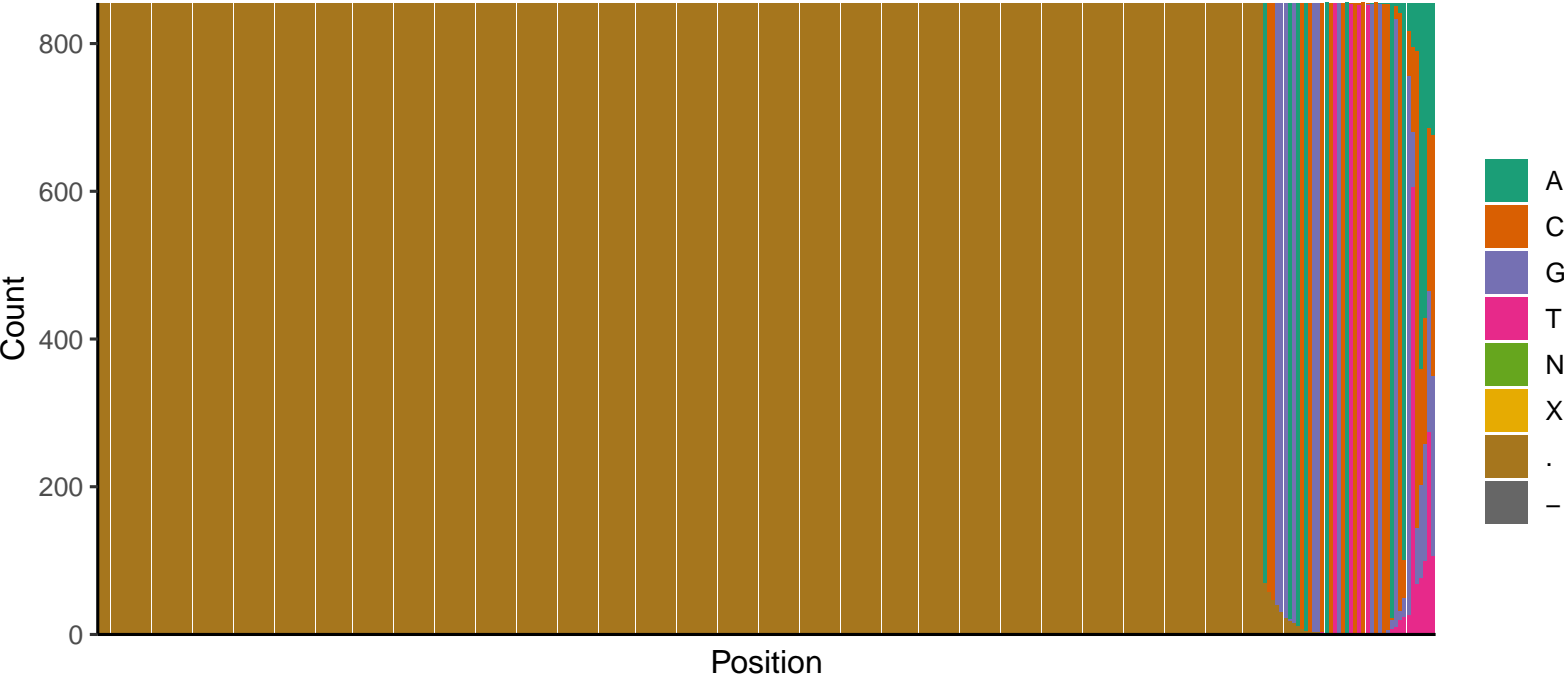
Gene TRBV7-1*ap01_T296C



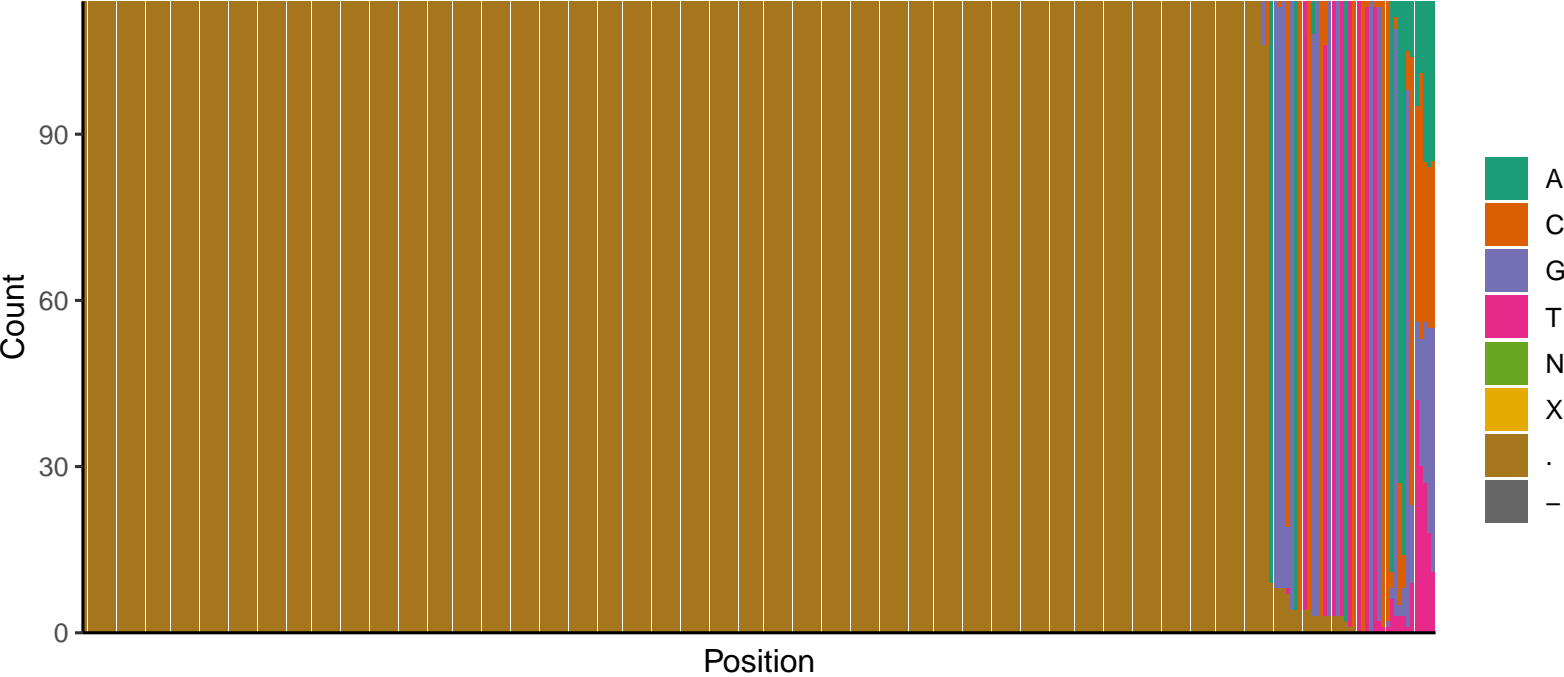
Gene TRBV7-7*ap01_C315T



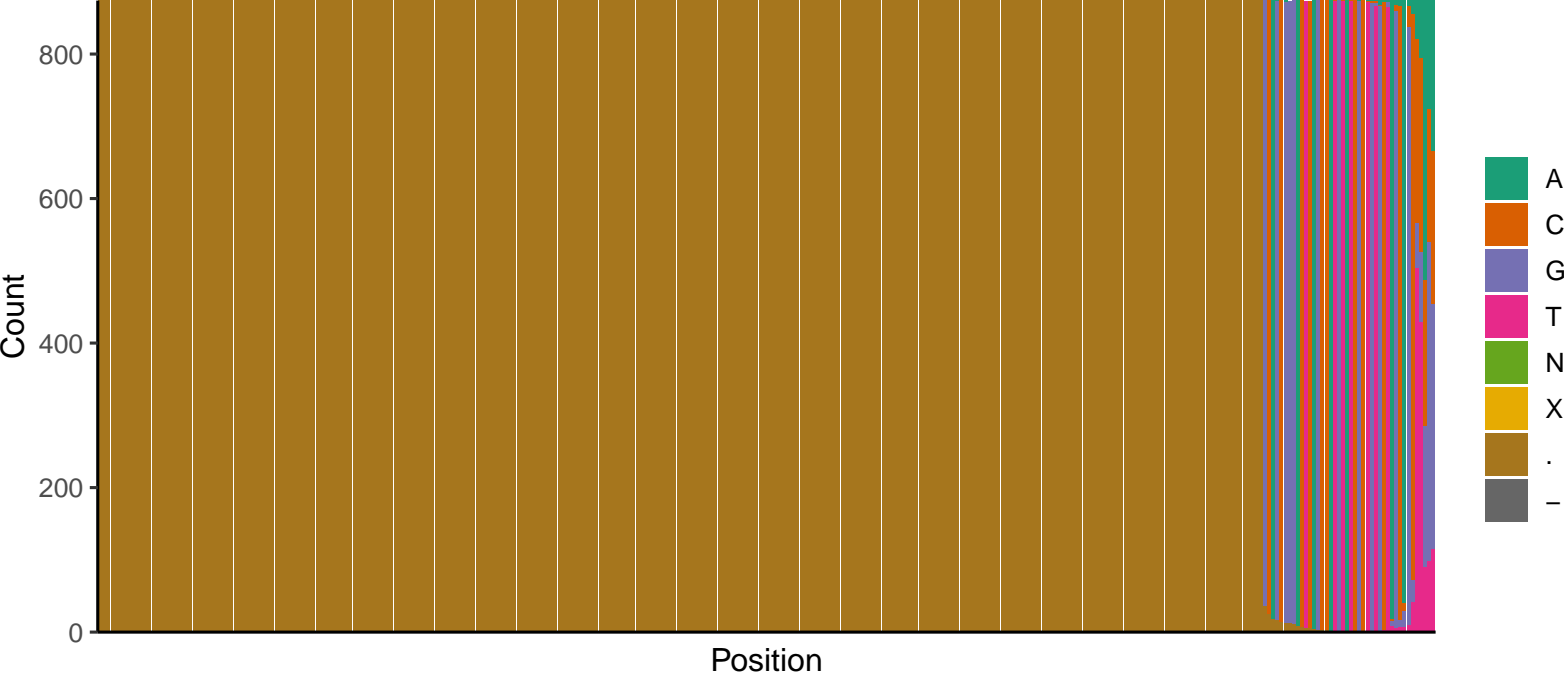
Gene TRBV23-1*ap01_T304C



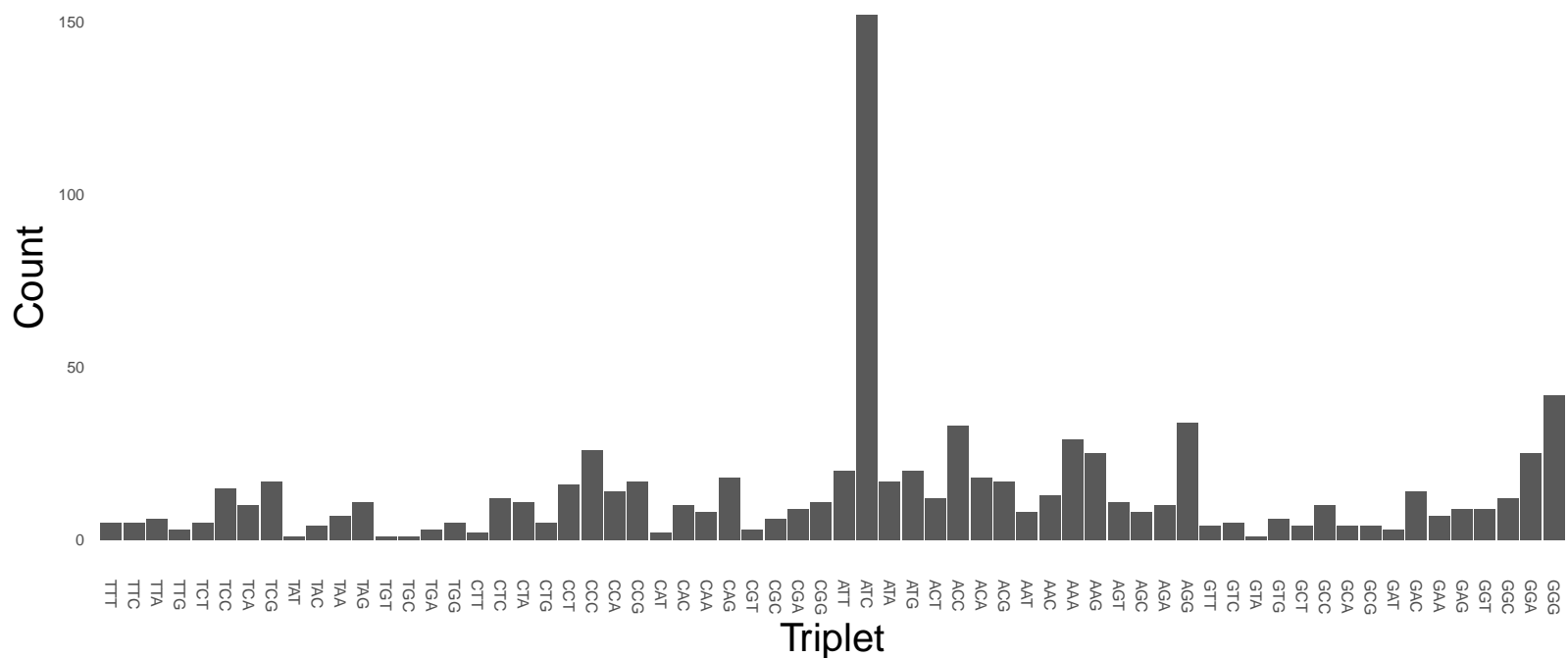
Gene TRBV7-1*ap01_T296C



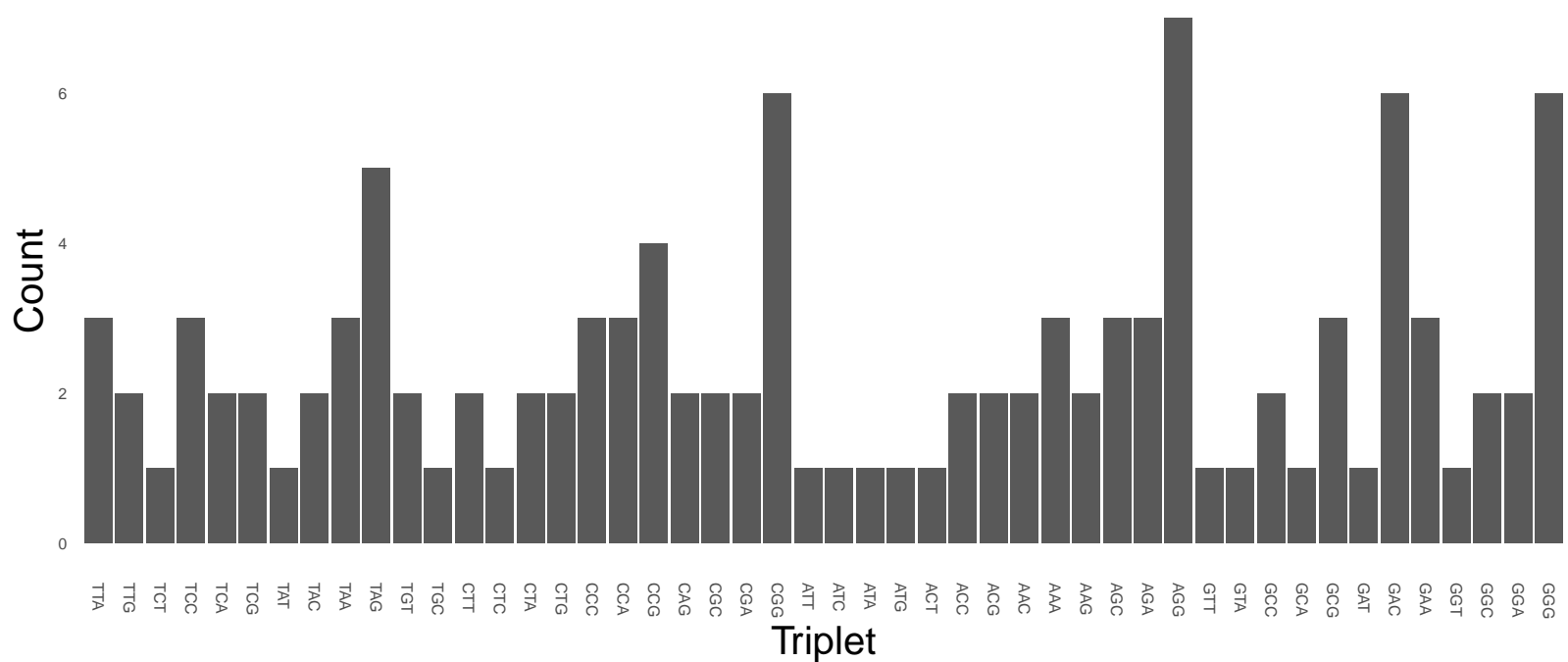
Gene TRBV7-7*ap01_C315T



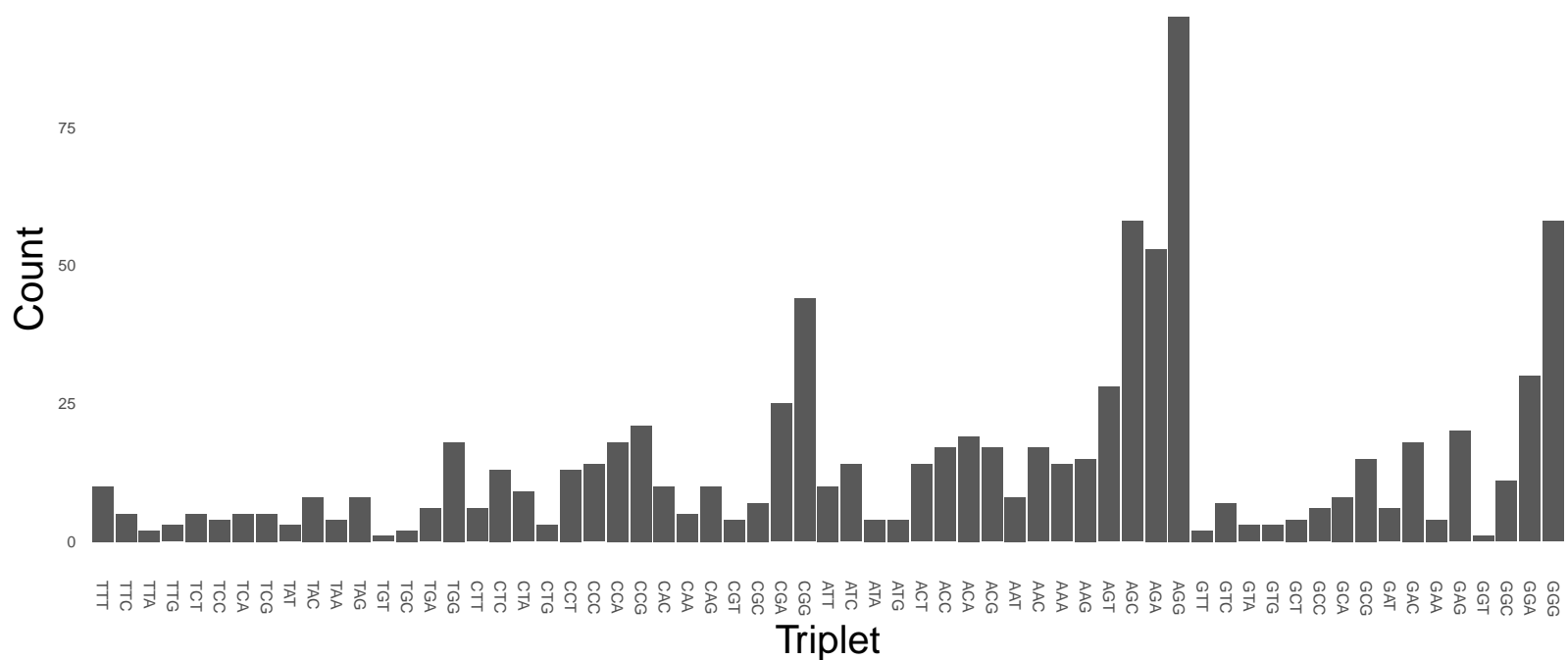
TRBV23-1*ap01_T304C- Final 3 nucleotides as a triplet



TRBV7-1*ap01_T296C- Final 3 nucleotides as a triplet

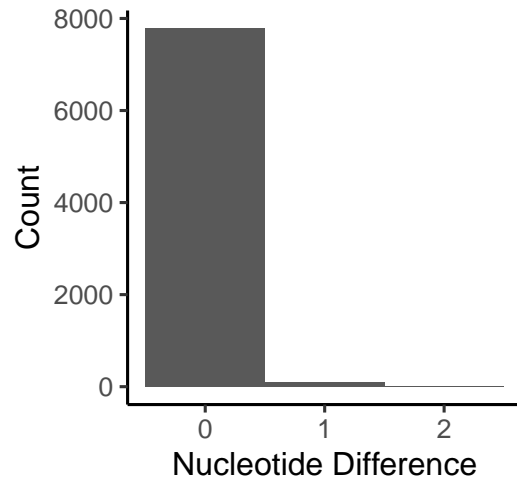


TRBV7-7*ap01_C315T- Final 3 nucleotides as a triplet



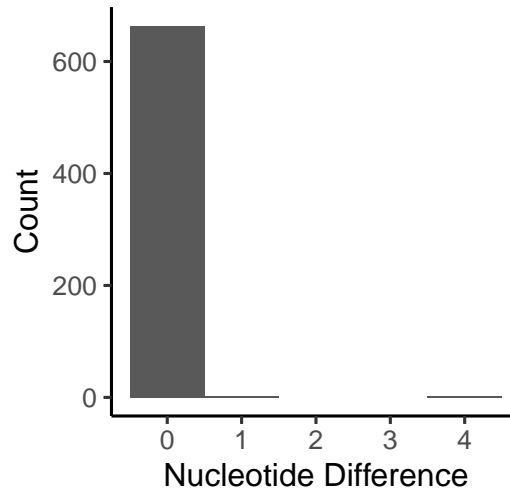
TRBV20-1*ap01

7884 sequences assigned
7784 (98.7%) exact matches, in which:
7618 unique CDR3
13 unique J



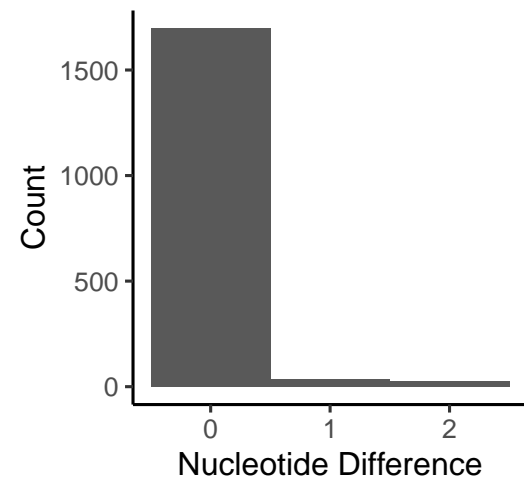
TRBV10-2*ap01

668 sequences assigned
664 (99.4%) exact matches, in which:
642 unique CDR3
13 unique J



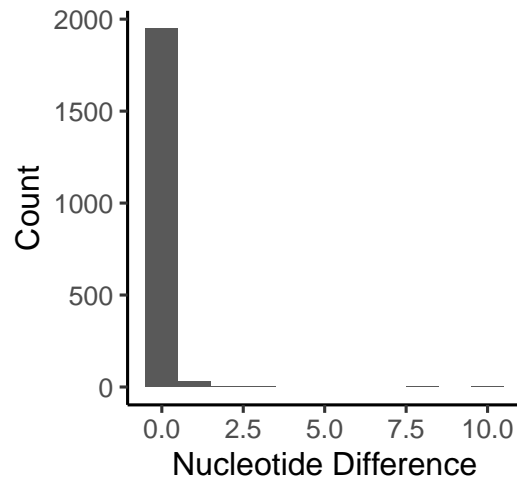
TRBV13*ap01

1760 sequences assigned
1697 (96.4%) exact matches, in which:
1632 unique CDR3
13 unique J



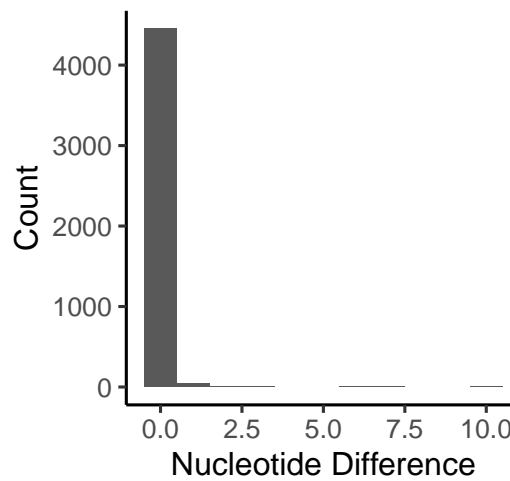
TRBV10-1*ap01

1985 sequences assigned
1948 (98.1%) exact matches, in which:
1885 unique CDR3
13 unique J



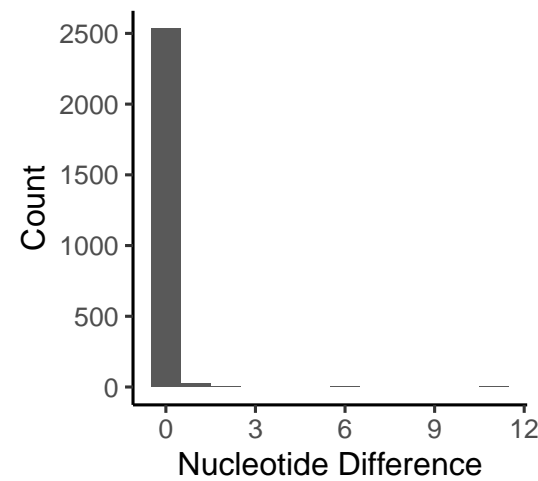
TRBV10-3*ap01

4511 sequences assigned
4452 (98.7%) exact matches, in which:
4332 unique CDR3
13 unique J



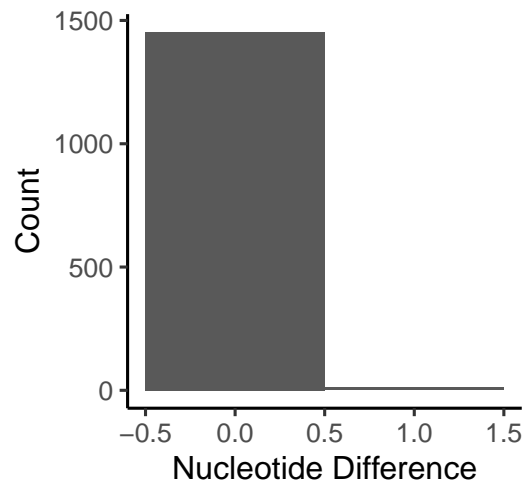
TRBV14*ap01

2562 sequences assigned
2533 (98.9%) exact matches, in which:
2470 unique CDR3
13 unique J



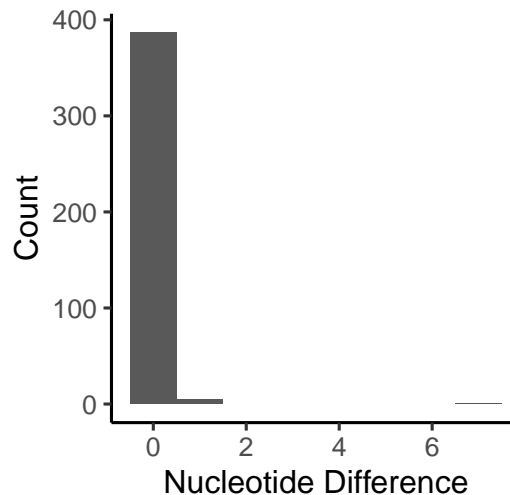
TRBV20-1*ap02

1464 sequences assigned
1453 (99.2%) exact matches, in which:
1413 unique CDR3
13 unique J



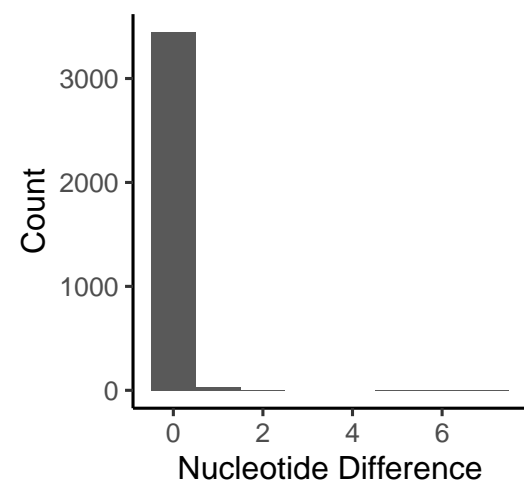
TRBV1*ap01

393 sequences assigned
387 (98.5%) exact matches, in which:
379 unique CDR3
12 unique J



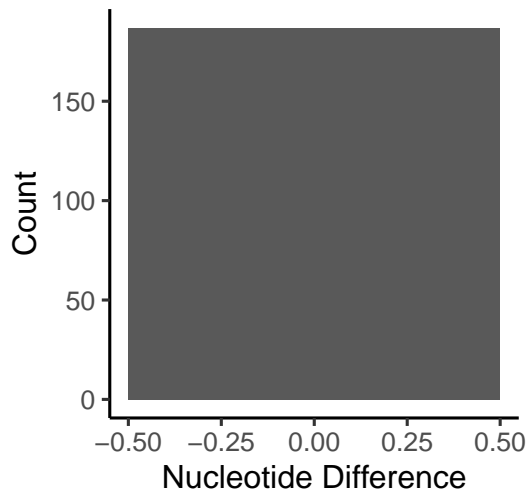
TRBV15*ap02

3485 sequences assigned
3447 (98.9%) exact matches, in which:
3337 unique CDR3
13 unique J



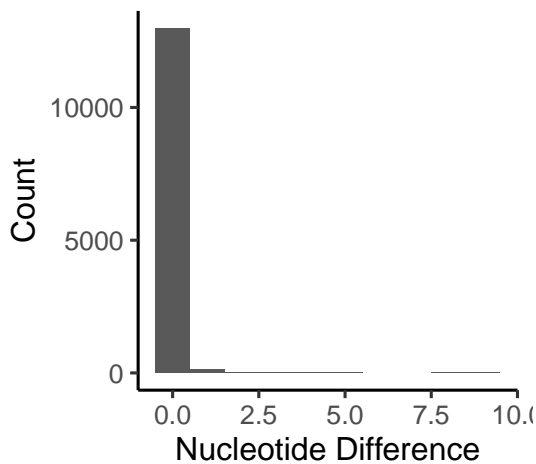
TRBV16*ap01

187 sequences assigned
187 (100%) exact matches, in which:
186 unique CDR3
13 unique J



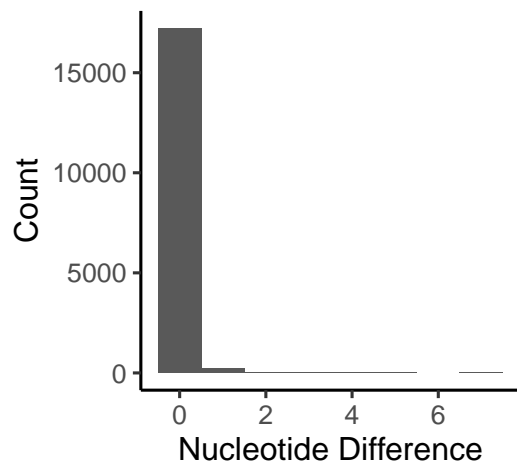
TRBV19*ap01

13132 sequences assigned
12988 (98.9%) exact matches, in which:
12768 unique CDR3
13 unique J



TRBV28*ap01

17444 sequences assigned
17226 (98.8%) exact matches, in which:
16792 unique CDR3
13 unique J



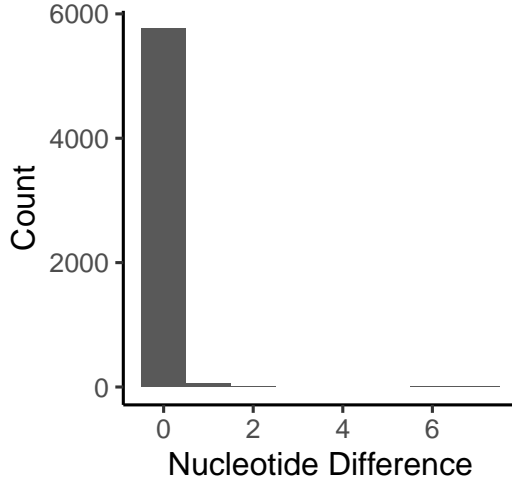
TRBV17*ap01

1 sequences assigned
No exact matches.



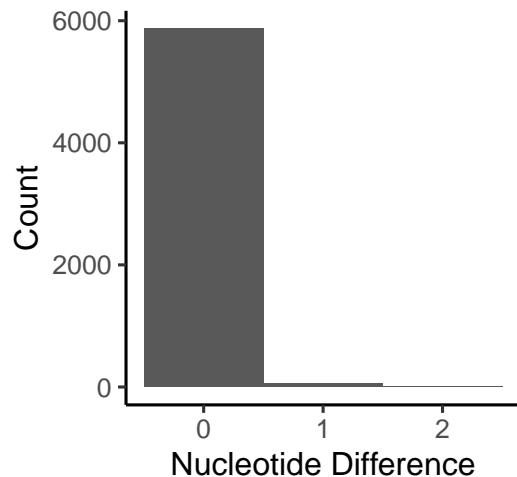
TRBV2*ap01

5829 sequences assigned
5761 (98.8%) exact matches, in which:
5641 unique CDR3
13 unique J



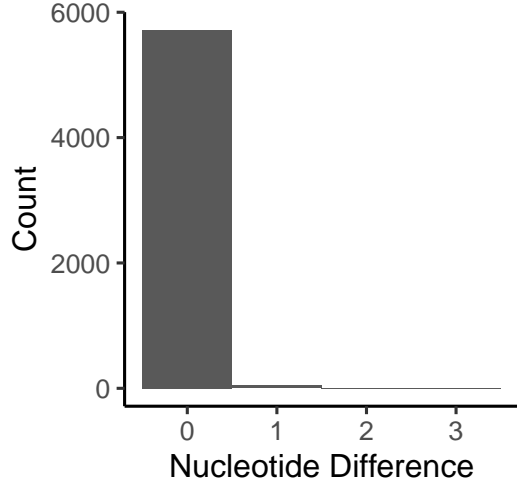
TRBV30*ap01

5934 sequences assigned
5869 (98.9%) exact matches, in which:
5752 unique CDR3
13 unique J



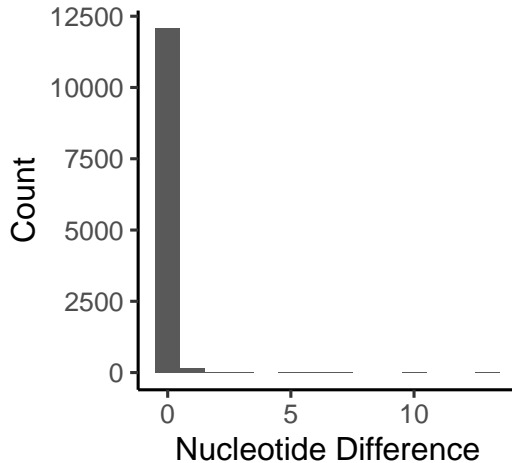
TRBV18*ap01

5766 sequences assigned
5716 (99.1%) exact matches, in which:
5615 unique CDR3
13 unique J



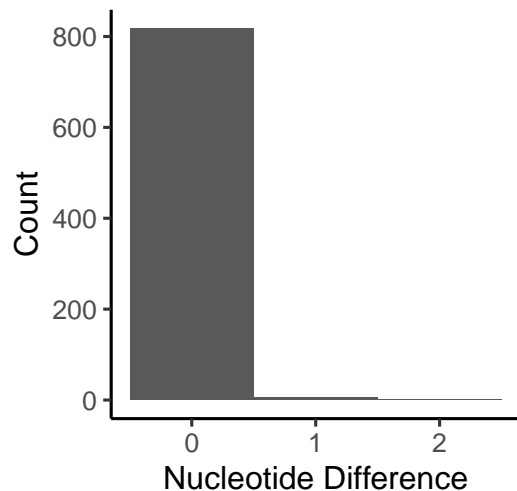
TRBV27*ap01

12271 sequences assigned
12094 (98.6%) exact matches, in which:
11707 unique CDR3
13 unique J



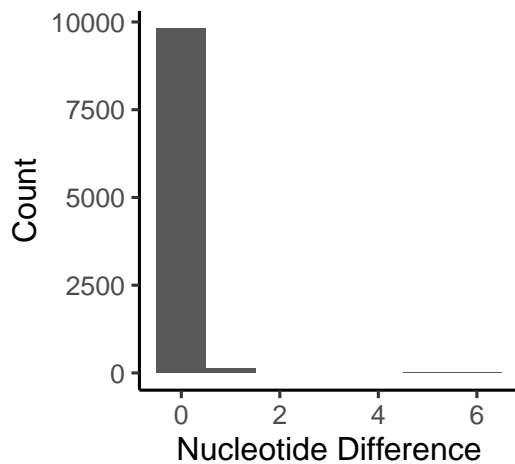
TRBV30*ap03

824 sequences assigned
818 (99.3%) exact matches, in which:
797 unique CDR3
13 unique J



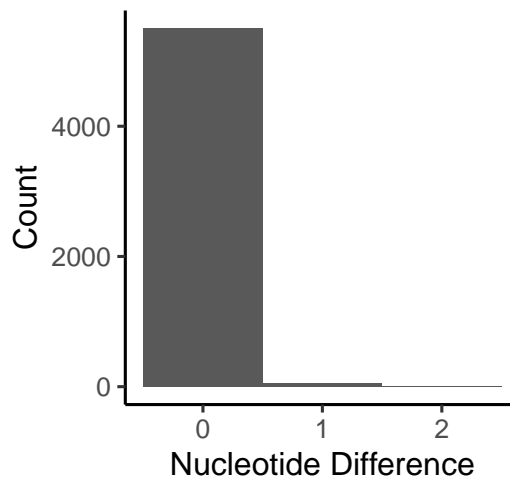
TRBV9*ap01

9947 sequences assigned
9824 (98.8%) exact matches, in which:
9612 unique CDR3
13 unique J



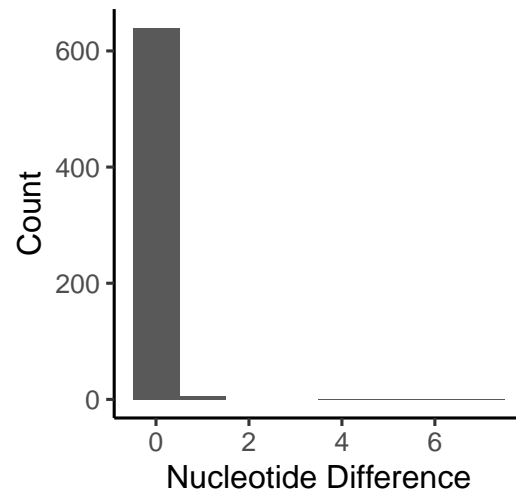
TRBV11-2*ap01

5563 sequences assigned
5503 (98.9%) exact matches, in which:
5353 unique CDR3
13 unique J



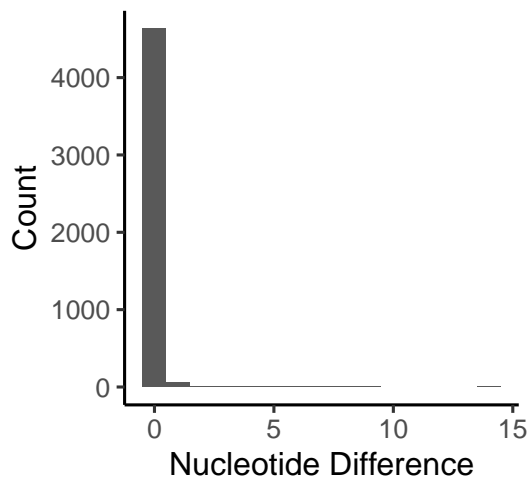
TRBV12-2*ap01

650 sequences assigned
640 (98.5%) exact matches, in which:
614 unique CDR3
13 unique J



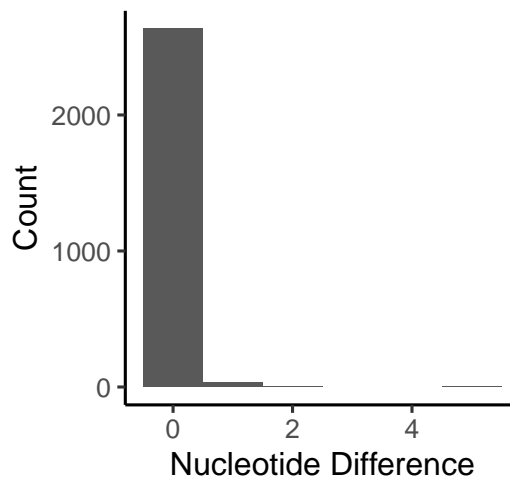
TRBV21-1*ap01

4720 sequences assigned
4632 (98.1%) exact matches, in which:
4515 unique CDR3
13 unique J



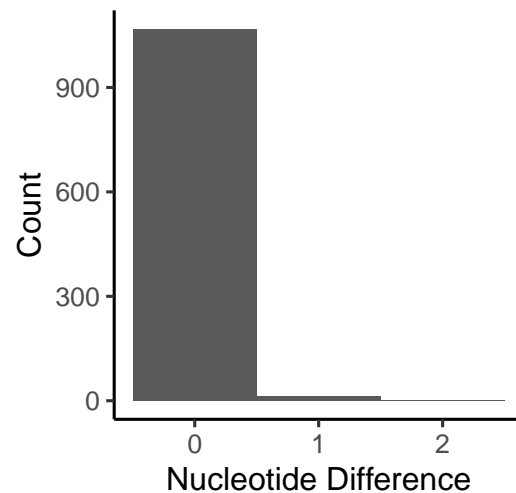
TRBV11-3*ap01

2672 sequences assigned
2634 (98.6%) exact matches, in which:
2591 unique CDR3
13 unique J



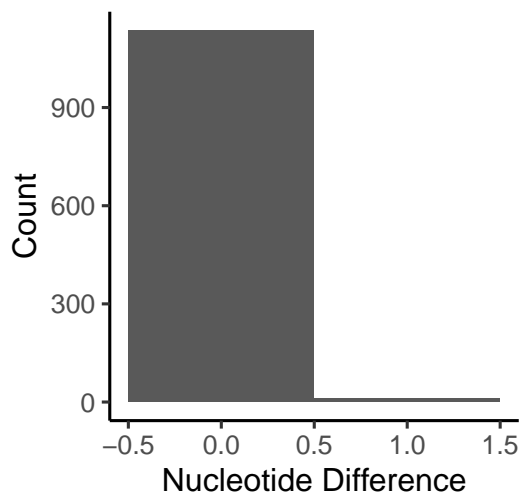
TRBV12-5*ap01

1082 sequences assigned
1068 (98.7%) exact matches, in which:
1046 unique CDR3
13 unique J



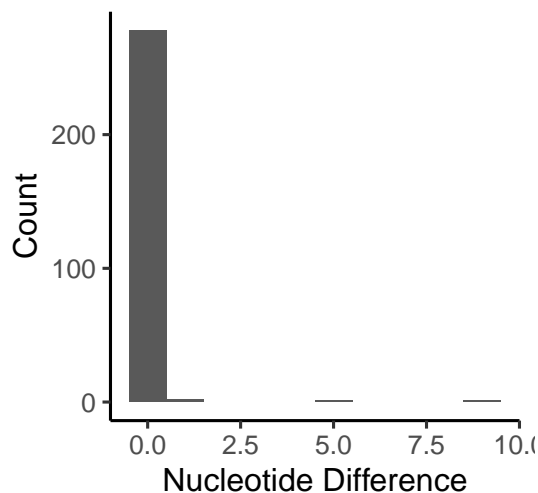
TRBV11-1*ap01

1147 sequences assigned
1136 (99%) exact matches, in which:
1114 unique CDR3
13 unique J



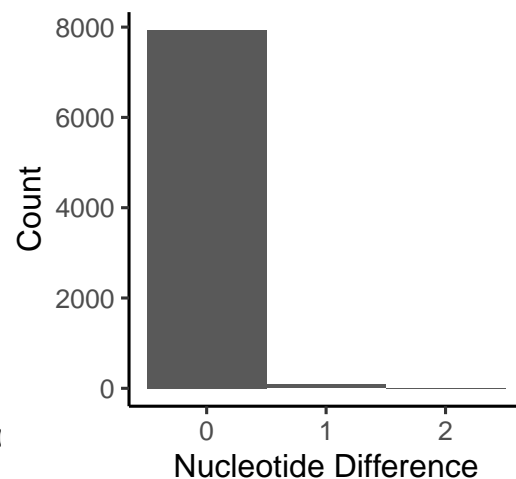
TRBV12-1*ap01

282 sequences assigned
278 (98.6%) exact matches, in which:
274 unique CDR3
13 unique J



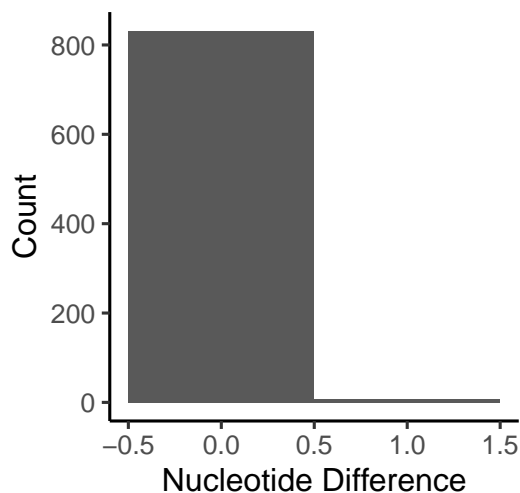
TRBV12-34*ap01

8020 sequences assigned
7935 (98.9%) exact matches, in which:
7759 unique CDR3
13 unique J



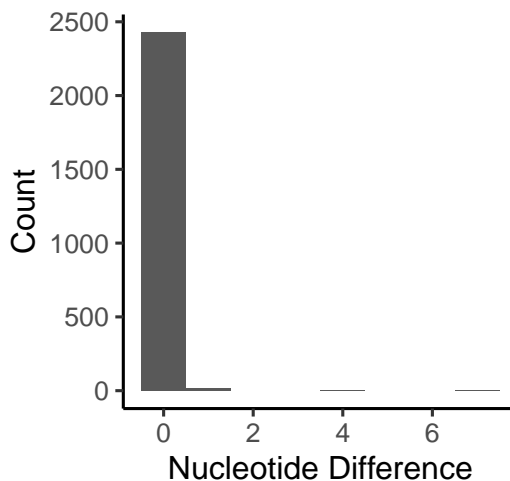
TRBV23–1*ap01

840 sequences assigned
832 (99%) exact matches, in which:
805 unique CDR3
13 unique J



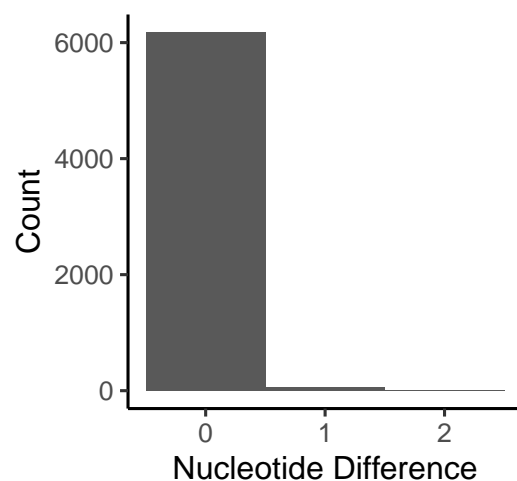
TRBV4–1*ap01

2449 sequences assigned
2428 (99.1%) exact matches, in which:
2356 unique CDR3
13 unique J



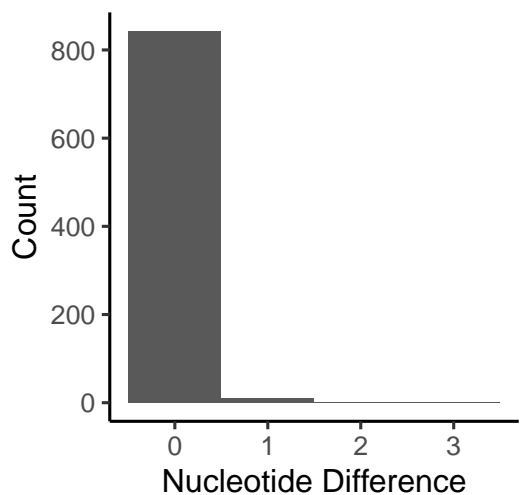
TRBV4–3*ap01

6241 sequences assigned
6176 (99%) exact matches, in which:
6000 unique CDR3
13 unique J



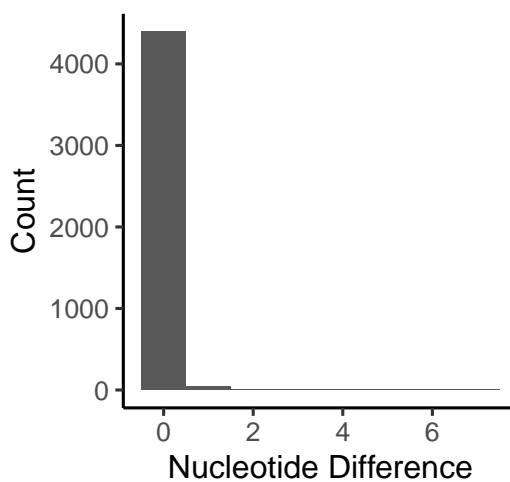
TRBV23–1*ap01_T304C

855 sequences assigned
843 (98.6%) exact matches, in which:
820 unique CDR3
13 unique J



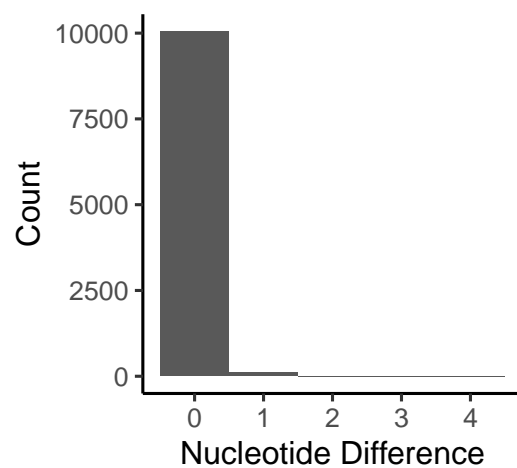
TRBV24–1*ap01

4446 sequences assigned
4395 (98.9%) exact matches, in which:
4312 unique CDR3
13 unique J



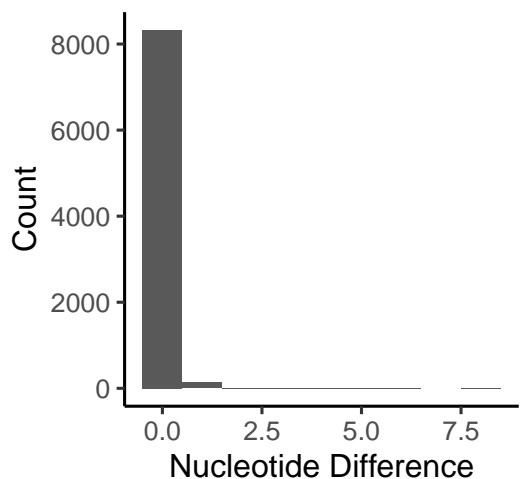
TRBV5–1*ap01

10160 sequences assigned
10048 (98.9%) exact matches, in which:
9748 unique CDR3
13 unique J



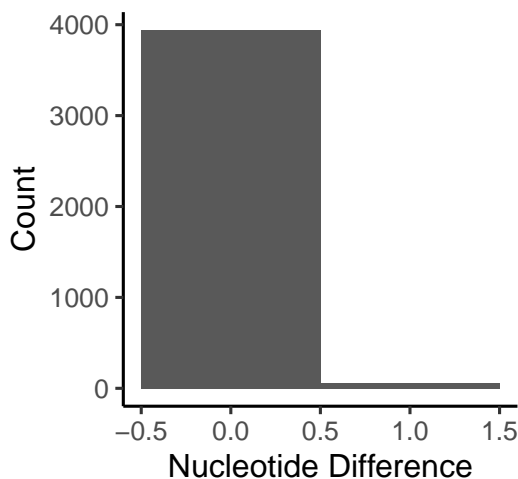
TRBV3–12*ap01

8479 sequences assigned
8325 (98.2%) exact matches, in which:
8099 unique CDR3
13 unique J



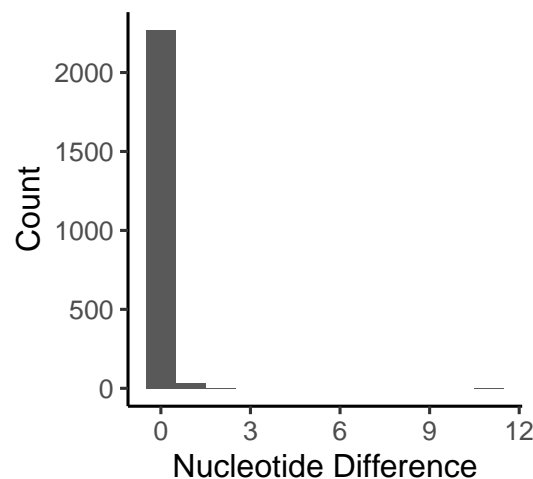
TRBV4–2*ap01

4002 sequences assigned
3941 (98.5%) exact matches, in which:
3836 unique CDR3
13 unique J



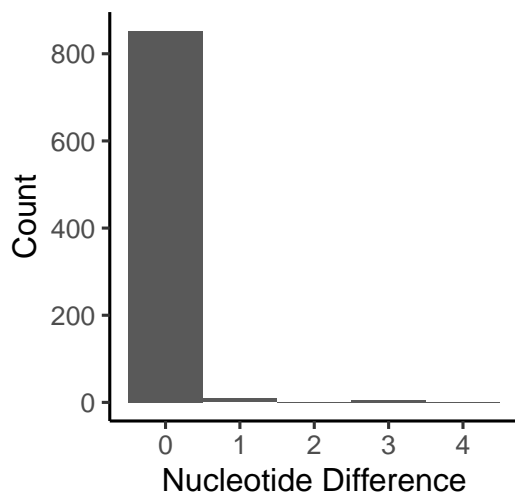
TRBV25–1*ap01

2305 sequences assigned
2269 (98.4%) exact matches, in which:
2226 unique CDR3
13 unique J



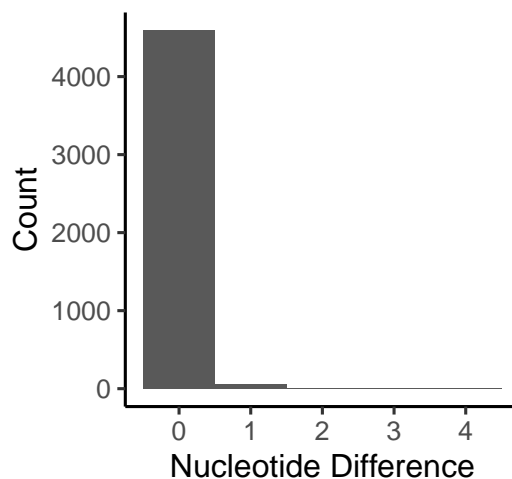
TRBV5-3*ap01

869 sequences assigned
853 (98.2%) exact matches, in which:
838 unique CDR3
13 unique J



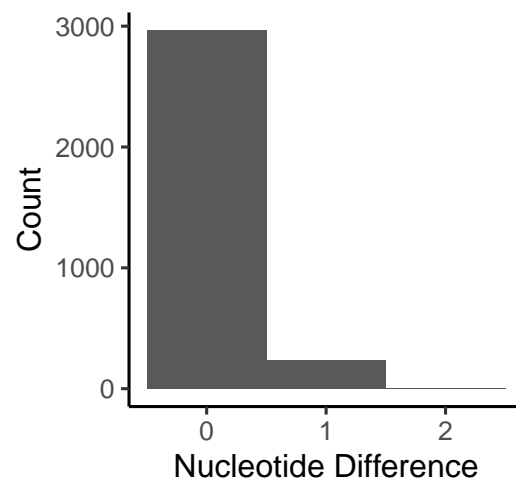
TRBV5-6*ap01

4652 sequences assigned
4592 (98.7%) exact matches, in which:
4480 unique CDR3
13 unique J



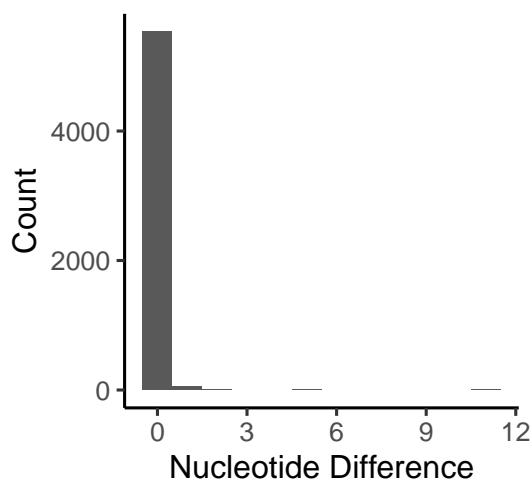
TRBV6-1*ap01

3199 sequences assigned
2965 (92.7%) exact matches, in which:
2872 unique CDR3
13 unique J



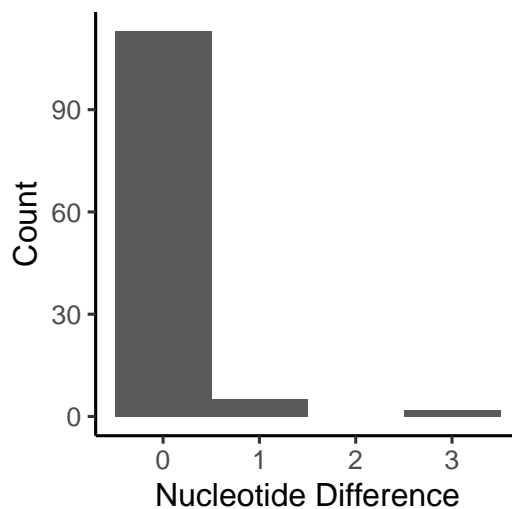
TRBV5-4*ap01

5597 sequences assigned
5534 (98.9%) exact matches, in which:
5369 unique CDR3
13 unique J



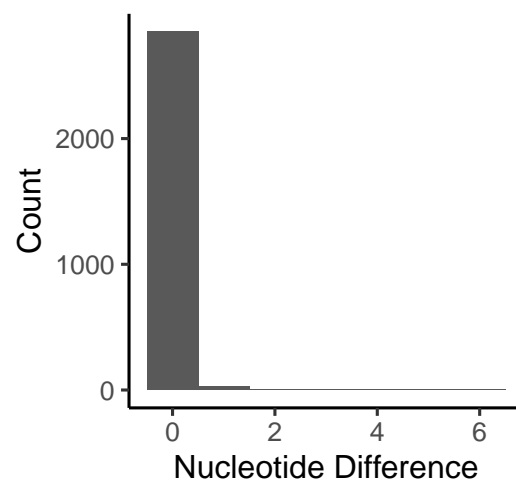
TRBV5-7*ap01

120 sequences assigned
113 (94.2%) exact matches, in which:
112 unique CDR3
13 unique J



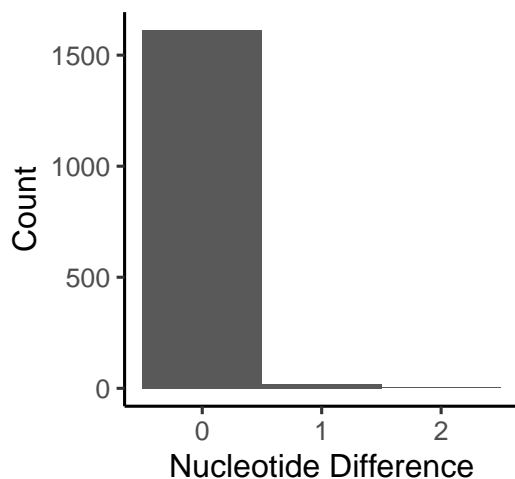
TRBV6-4*ap01

2892 sequences assigned
2850 (98.5%) exact matches, in which:
2788 unique CDR3
13 unique J



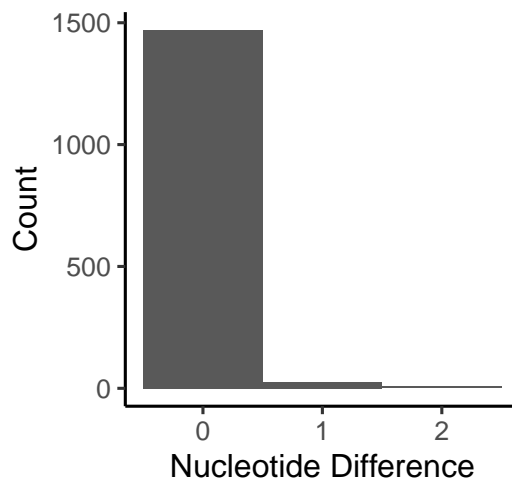
TRBV5-5*ap01

1635 sequences assigned
1613 (98.7%) exact matches, in which:
1593 unique CDR3
13 unique J



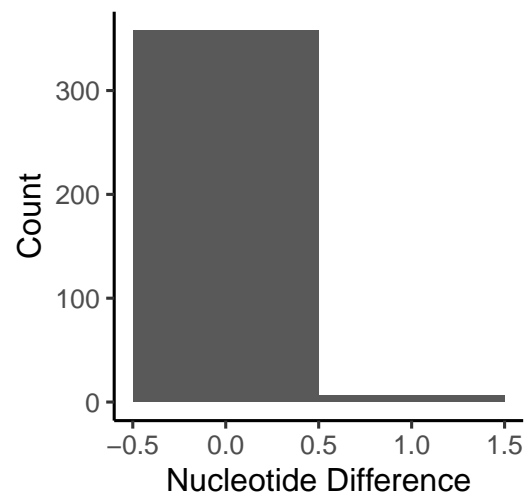
TRBV5-8*ap01

1504 sequences assigned
1470 (97.7%) exact matches, in which:
1445 unique CDR3
13 unique J



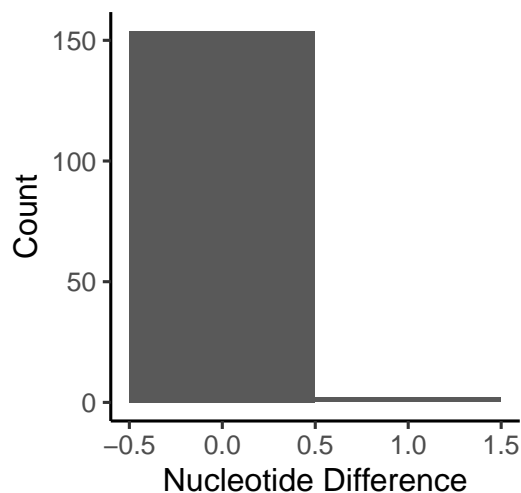
TRBV6-7*ap01

364 sequences assigned
358 (98.4%) exact matches, in which:
347 unique CDR3
13 unique J



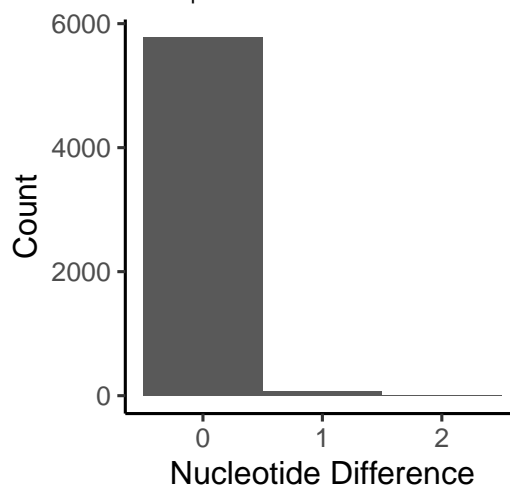
TRBV6-8*ap01

156 sequences assigned
154 (98.7%) exact matches, in which:
151 unique CDR3
13 unique J



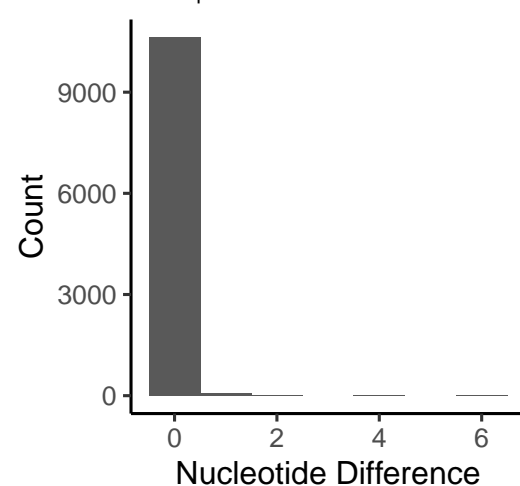
TRBV6-56*ap01

5854 sequences assigned
5778 (98.7%) exact matches, in which:
5616 unique CDR3
13 unique J



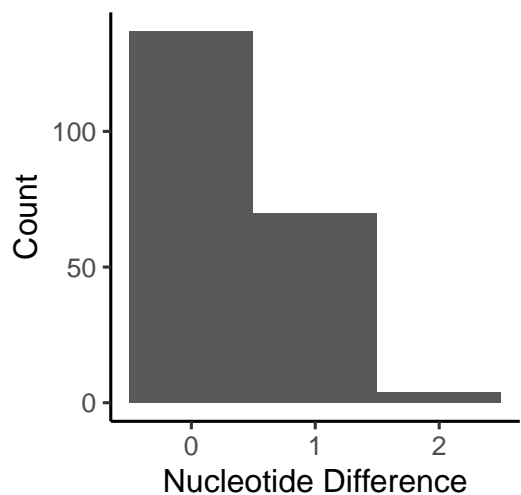
TRBV7-2*ap01

10711 sequences assigned
10624 (99.2%) exact matches, in which:
10375 unique CDR3
13 unique J



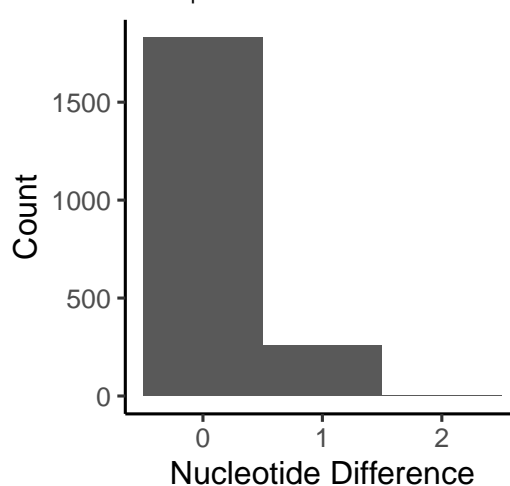
TRBV6-9*ap01

211 sequences assigned
137 (64.9%) exact matches, in which:
133 unique CDR3
12 unique J



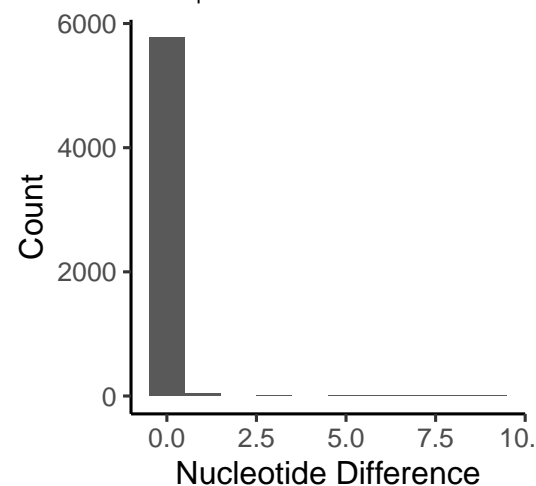
TRBV6-56*ap02

2089 sequences assigned
1829 (87.6%) exact matches, in which:
1772 unique CDR3
13 unique J



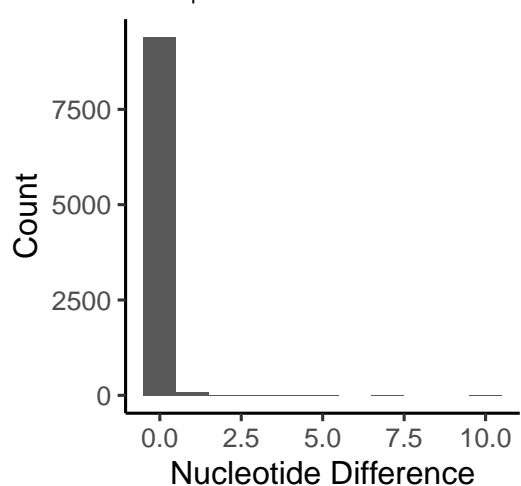
TRBV7-3*ap01

5827 sequences assigned
5771 (99%) exact matches, in which:
5654 unique CDR3
13 unique J



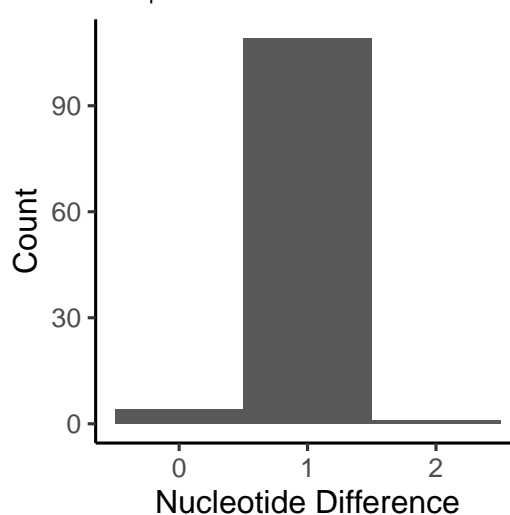
TRBV6-23*ap01

9498 sequences assigned
9397 (98.9%) exact matches, in which:
9125 unique CDR3
13 unique J



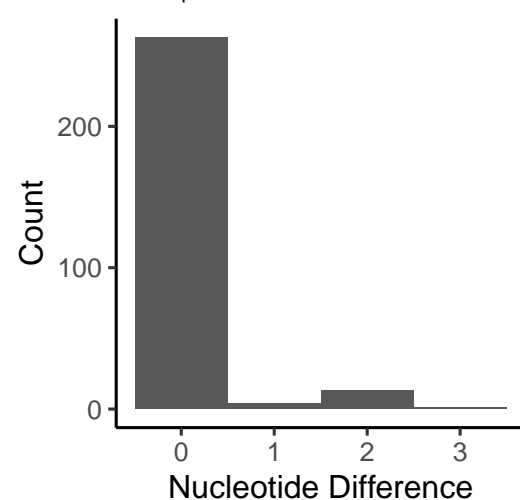
TRBV7-1*ap01_T296C

114 sequences assigned
4 (3.5%) exact matches, in which:
4 unique CDR3
2 unique J



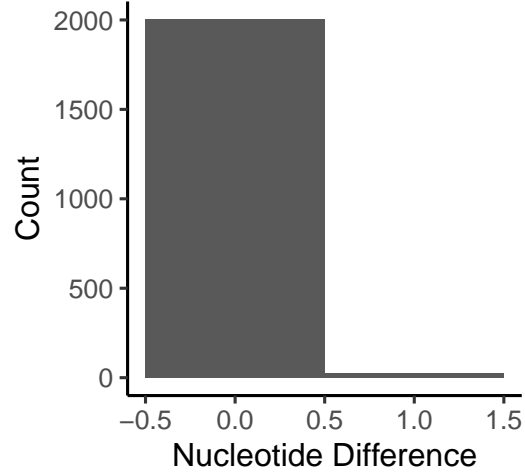
TRBV7-4*ap01

281 sequences assigned
263 (93.6%) exact matches, in which:
256 unique CDR3
13 unique J



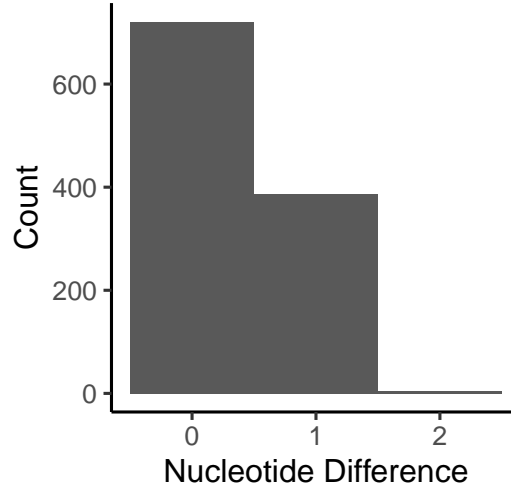
TRBV7-6*ap01

2027 sequences assigned
2003 (98.8%) exact matches, in which:
1955 unique CDR3
13 unique J



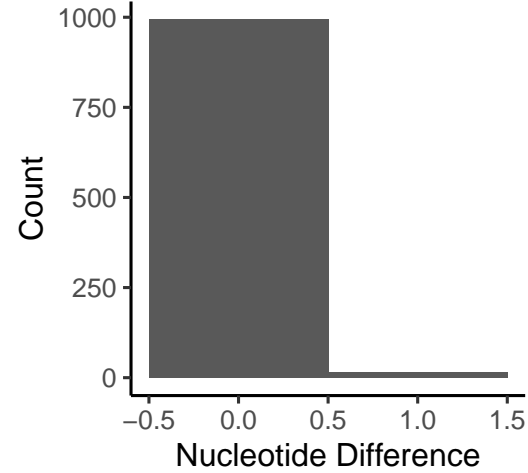
TRBV7-8*ap03

1112 sequences assigned
721 (64.8%) exact matches, in which:
706 unique CDR3
13 unique J



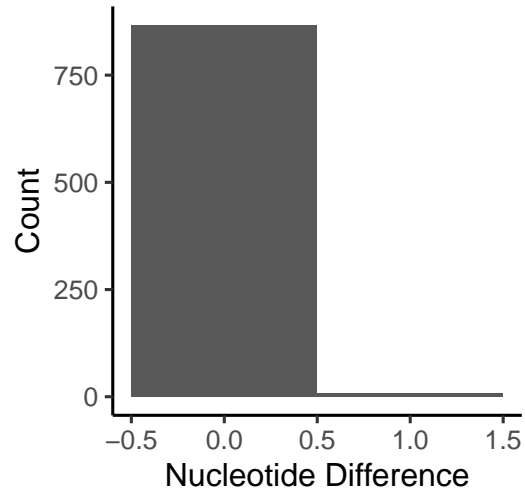
TRBV29-1*ap02

1010 sequences assigned
994 (98.4%) exact matches, in which:
968 unique CDR3
13 unique J



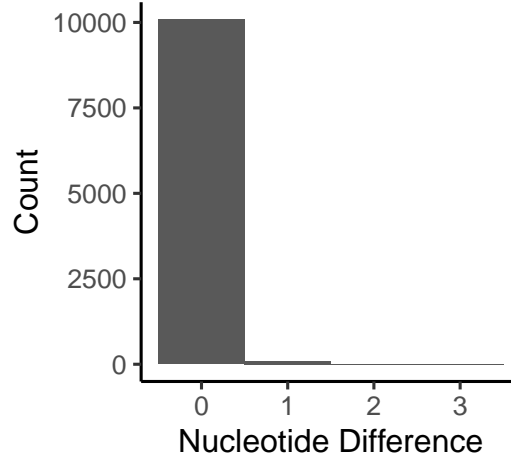
TRBV7-7*ap01_C315T

874 sequences assigned
867 (99.2%) exact matches, in which:
847 unique CDR3
13 unique J



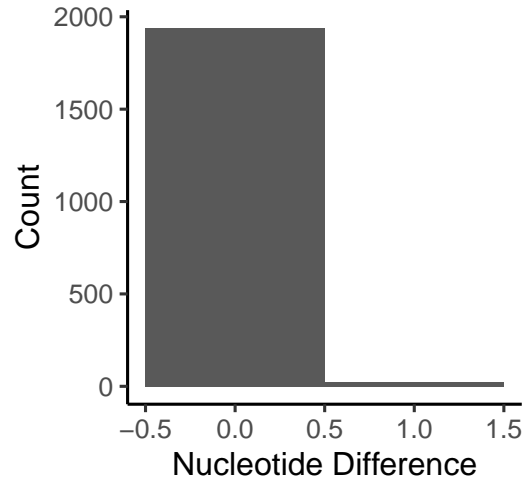
TRBV7-9*ap01

10180 sequences assigned
10087 (99.1%) exact matches, in which:
9866 unique CDR3
13 unique J



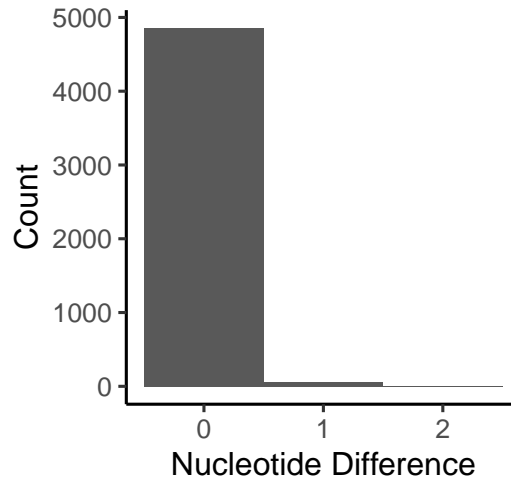
TRBV7-8*ap01

1964 sequences assigned
1939 (98.7%) exact matches, in which:
1879 unique CDR3
13 unique J

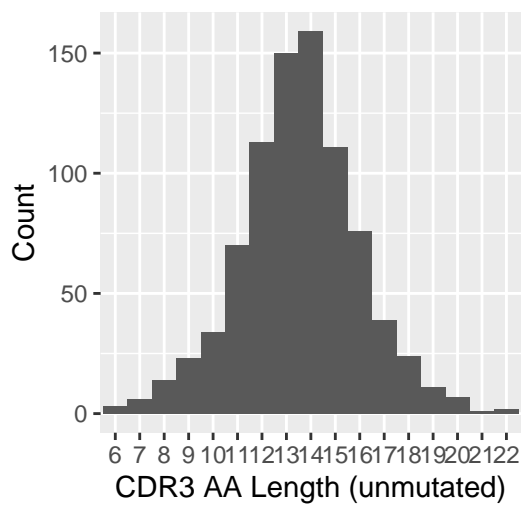


TRBV29-1*ap01

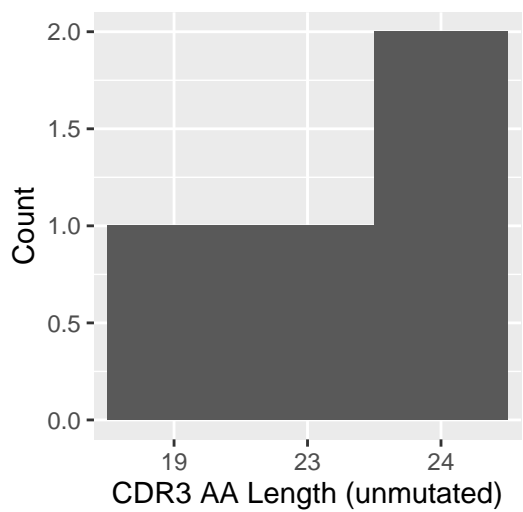
4917 sequences assigned
4856 (98.8%) exact matches, in which:
4751 unique CDR3
13 unique J



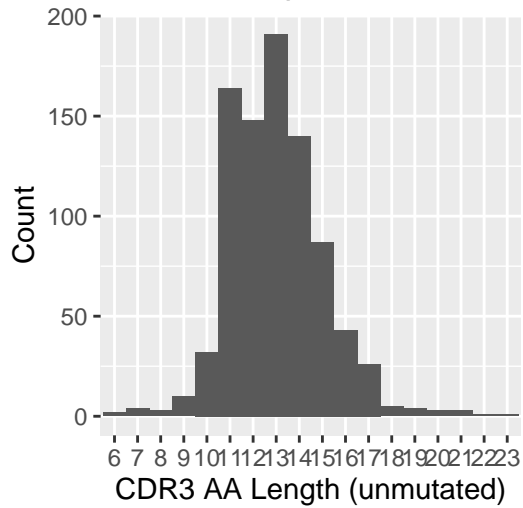
TRBV23-1*ap01_T304C



TRBV7-1*ap01_T296C



TRBV7-7*ap01_C315T





[illegible]