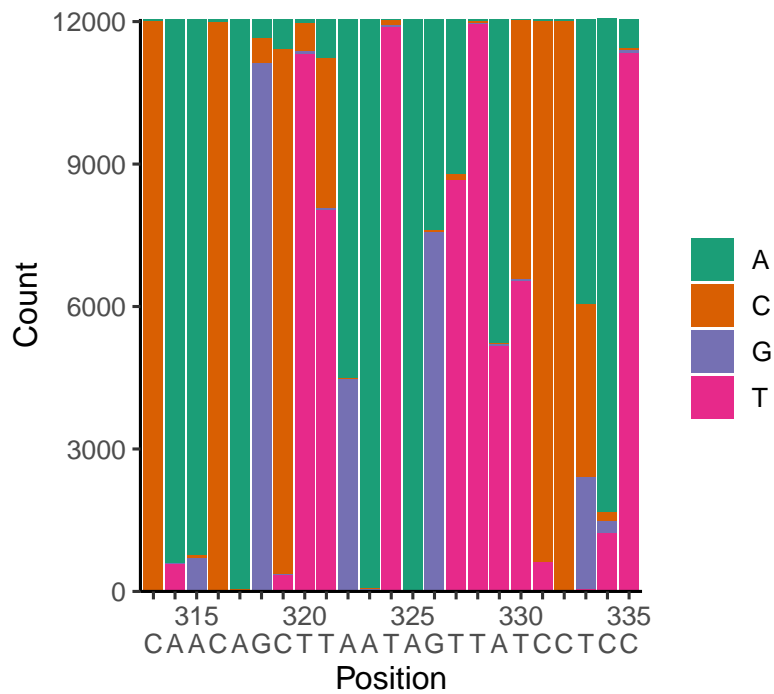
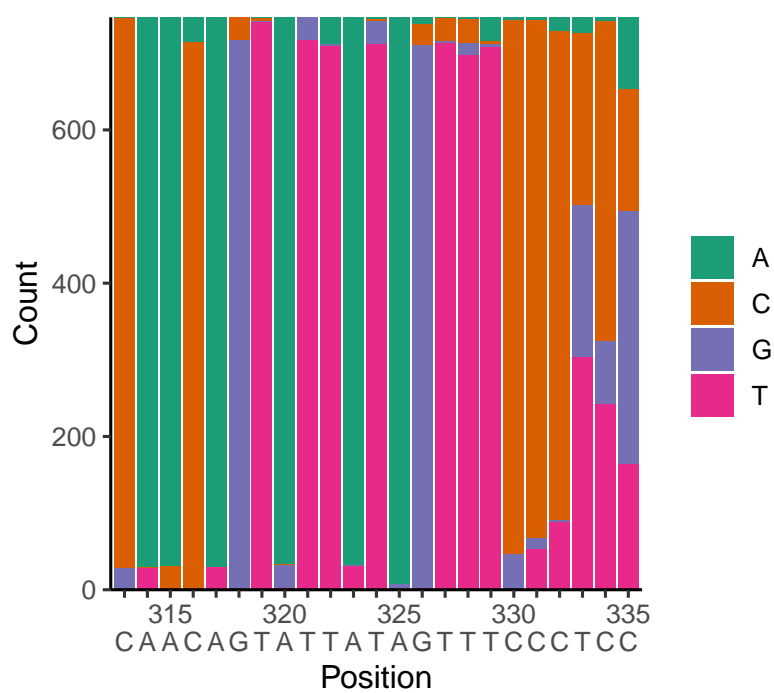


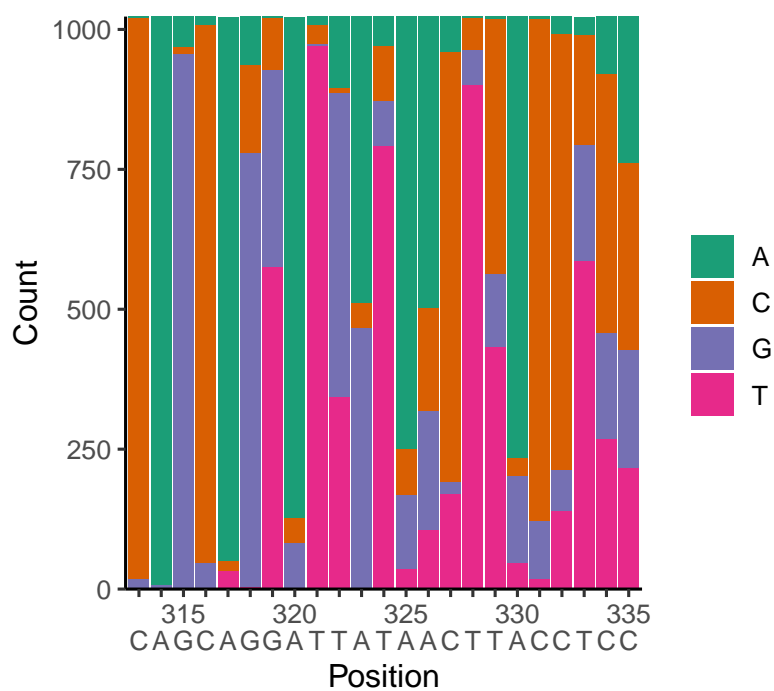
Gene IGKV1-9*01_S3186



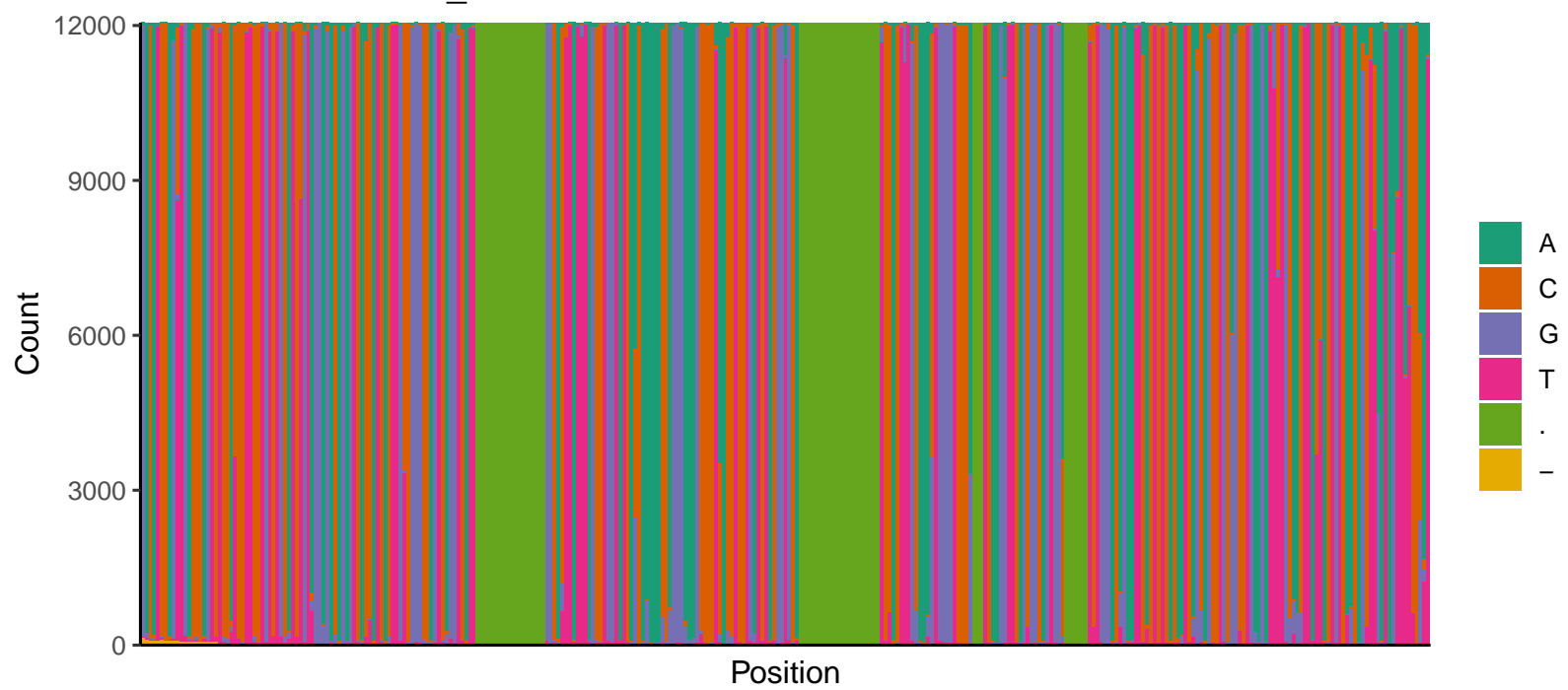
Gene IGKV1D-8*01_S8780



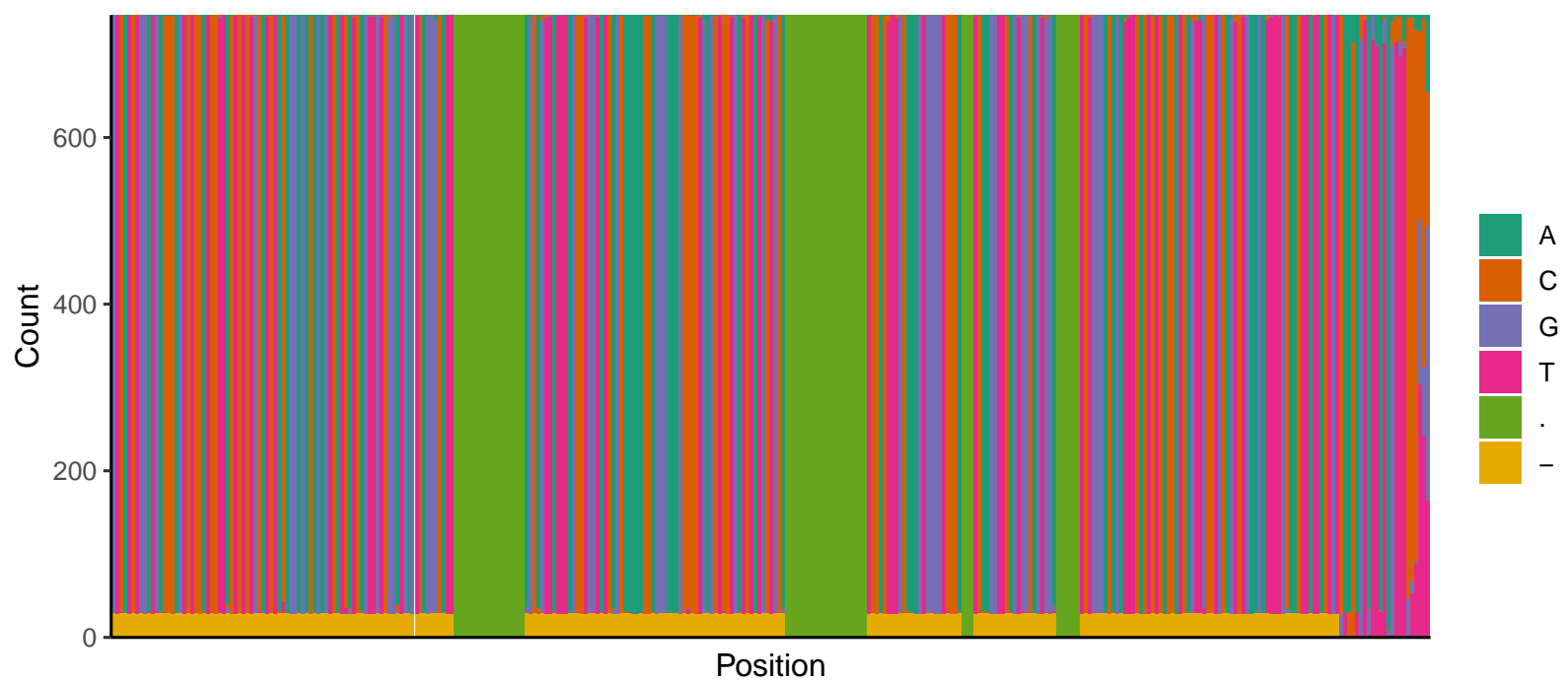
Gene IGKV3-7*04_S1697



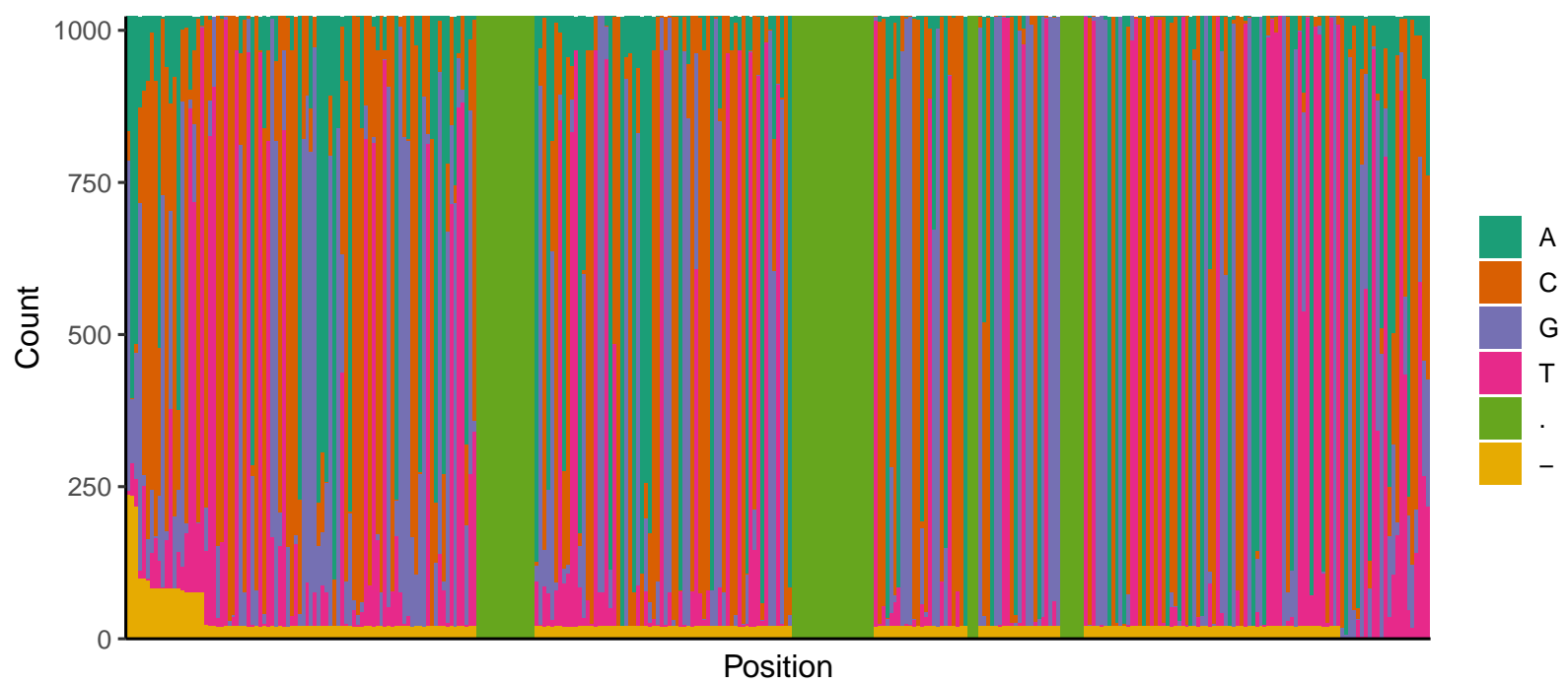
Gene IGKV1-9*01_S3186



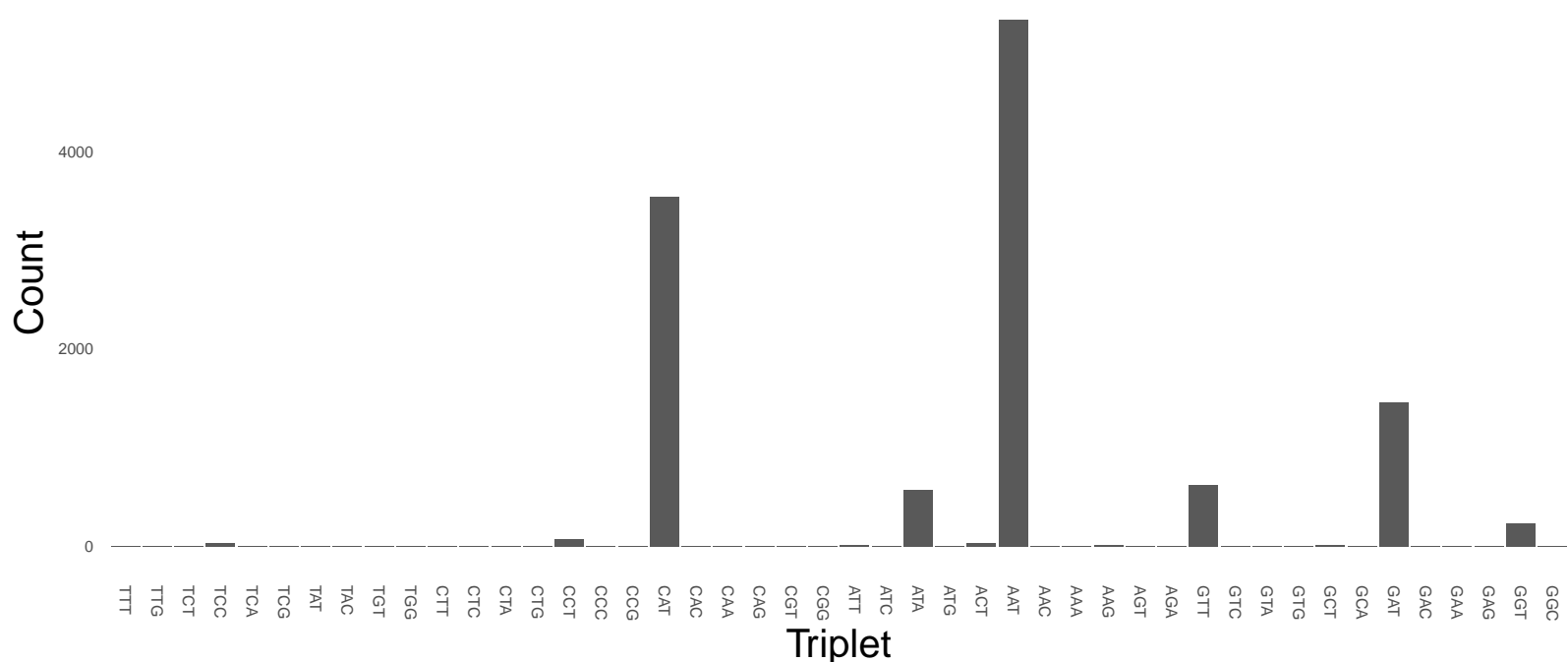
Gene IGKV1D-8*01_S8780



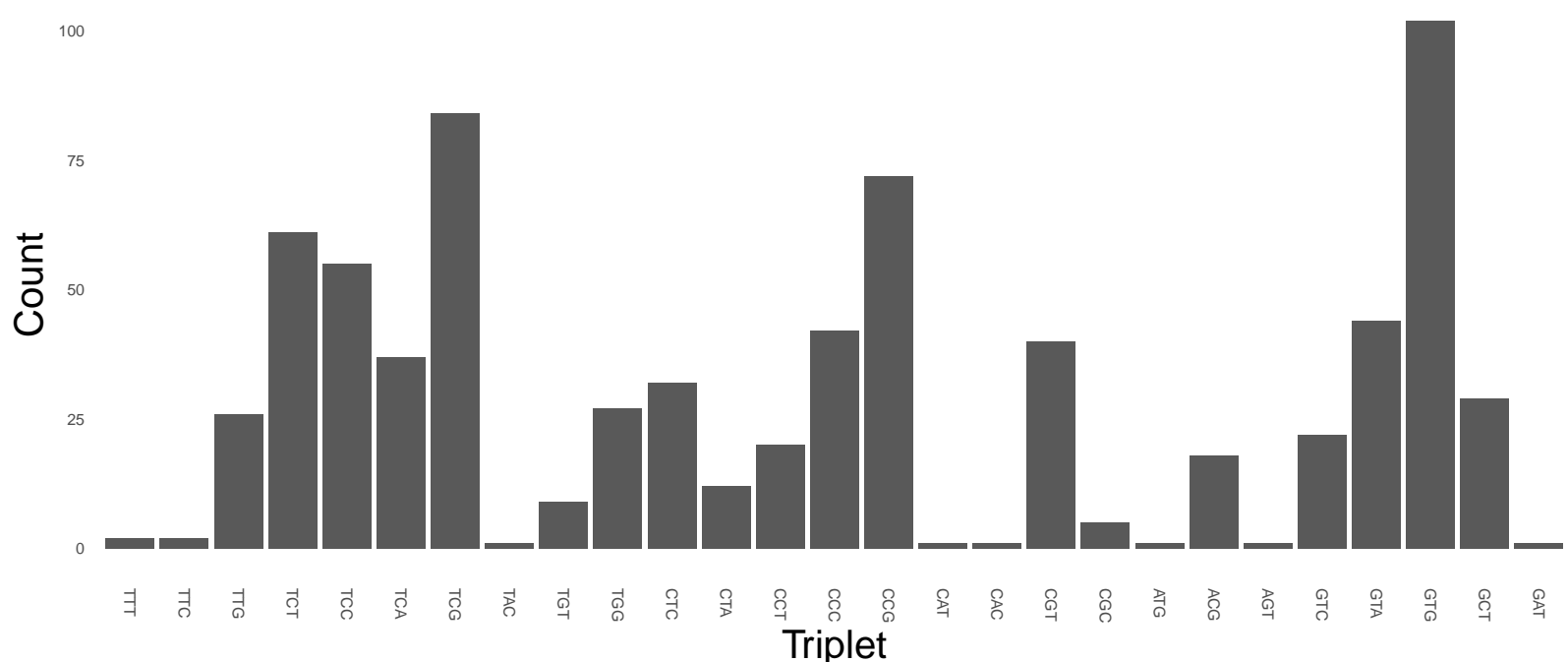
Gene IGKV3-7*04_S1697



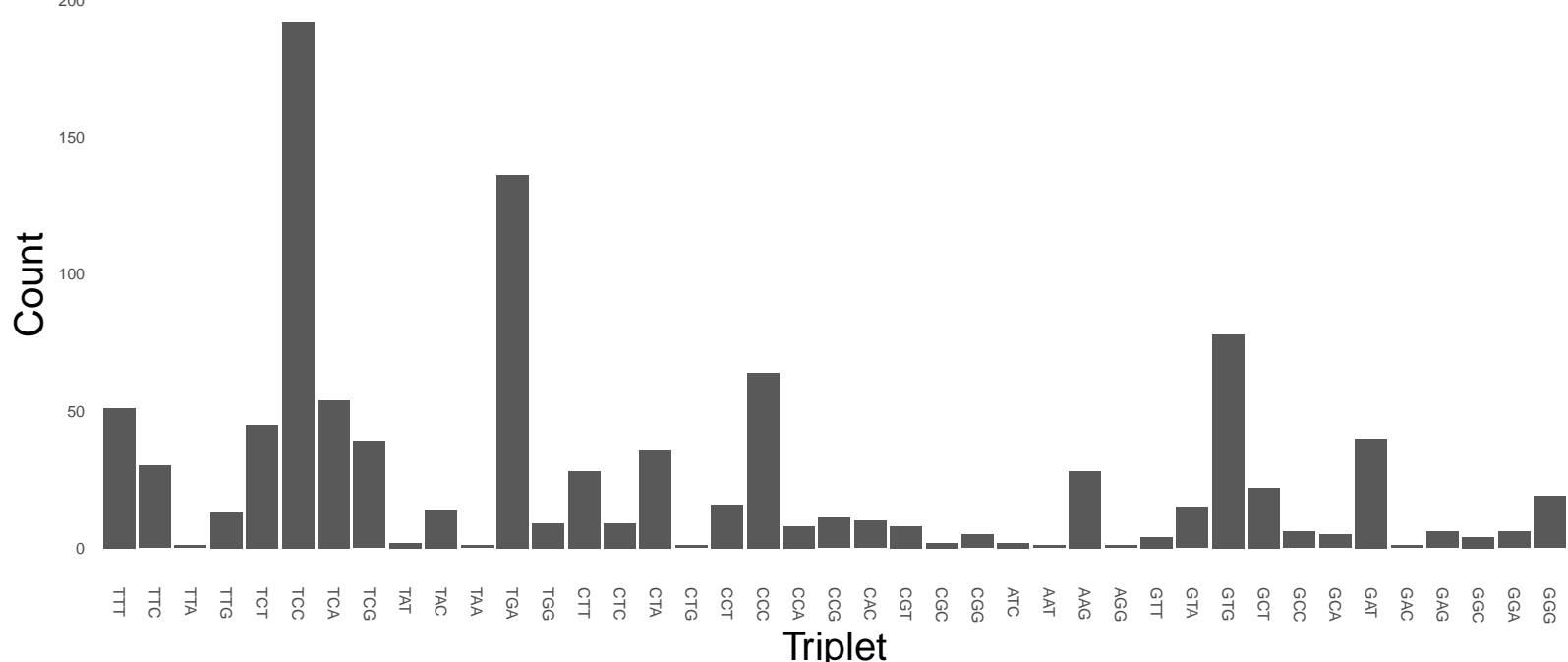
IGKV1–9*01_S3186– Final 3 nucleotides as a triplet



IGKV1D–8*01_S8780– Final 3 nucleotides as a triplet

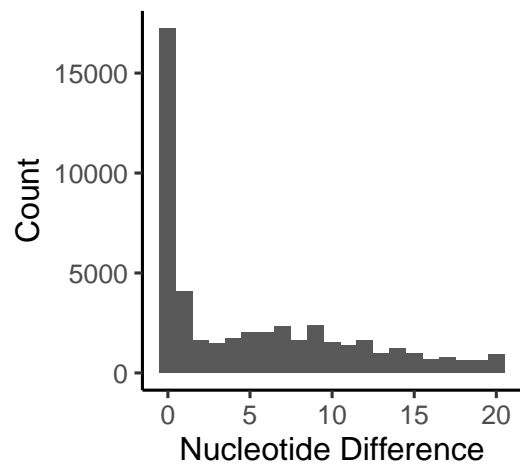


IGKV3–7*04_S1697– Final 3 nucleotides as a triplet



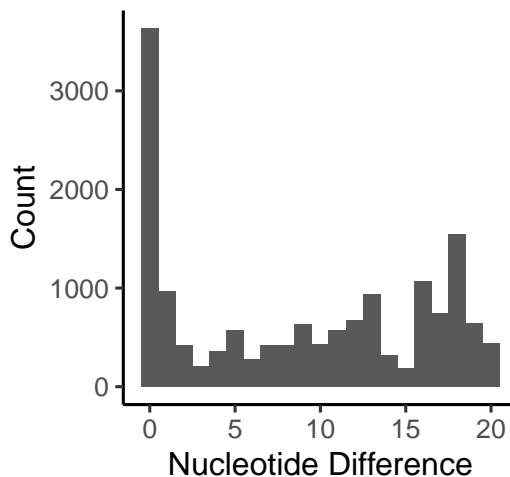
IGKV1-5*03

53725 sequences assigned
17248 (32.1%) exact matches, in which:
718 unique CDR3
5 unique J



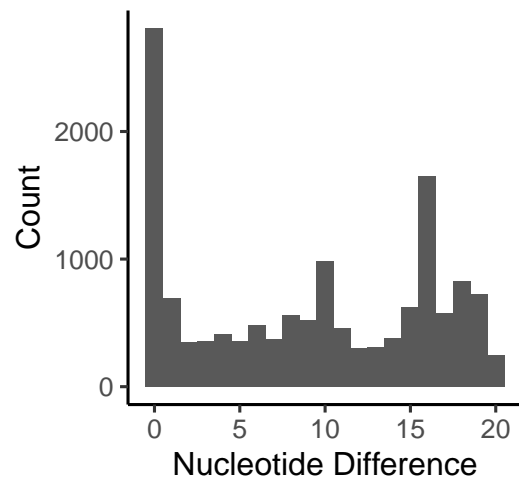
IGKV1-9*01

18925 sequences assigned
3633 (19.2%) exact matches, in which:
211 unique CDR3
5 unique J



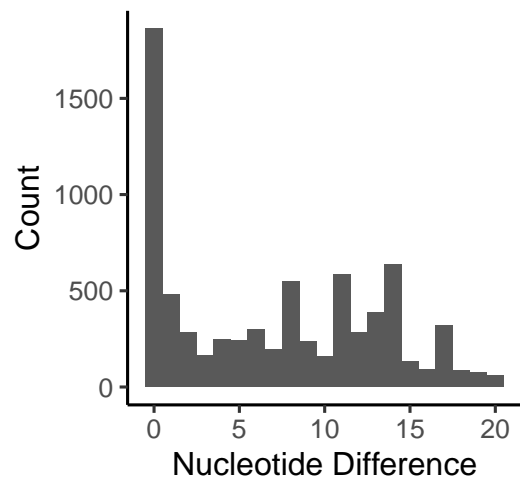
IGKV1-16*02

22472 sequences assigned
2808 (12.5%) exact matches, in which:
197 unique CDR3
5 unique J



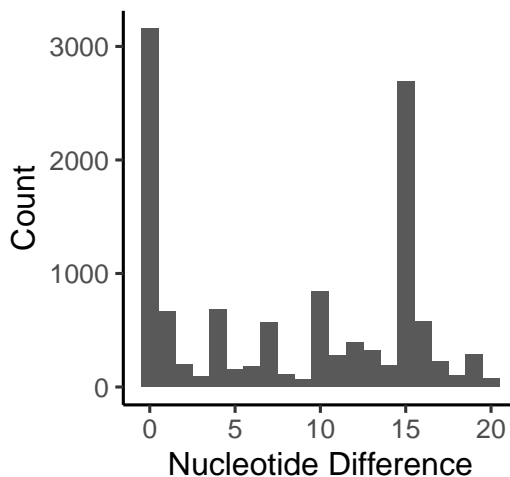
IGKV1-6*01

7868 sequences assigned
1862 (23.7%) exact matches, in which:
62 unique CDR3
5 unique J



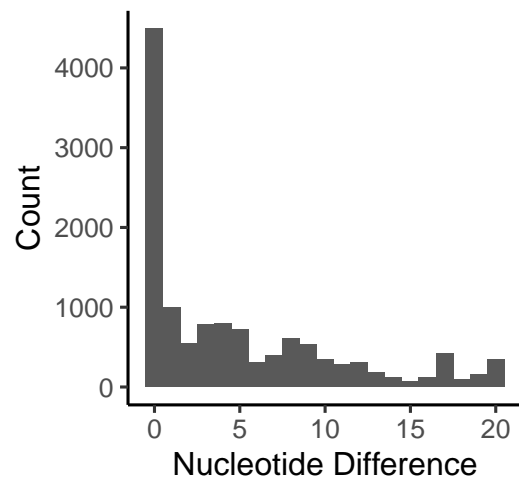
IGKV1-9*01_S3186

12056 sequences assigned
3156 (26.2%) exact matches, in which:
22 unique CDR3
3 unique J



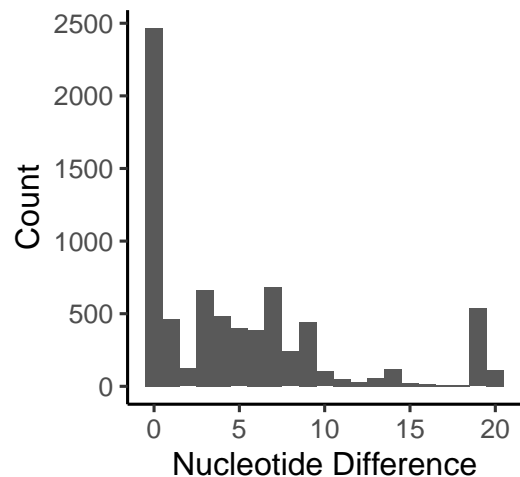
IGKV1-17*01

13013 sequences assigned
4491 (34.5%) exact matches, in which:
194 unique CDR3
5 unique J



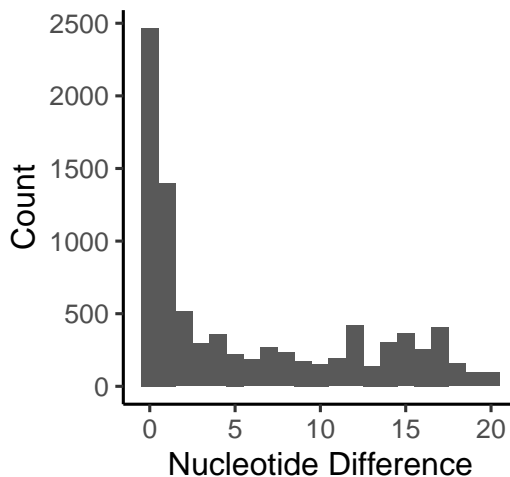
IGKV1-8*01

7743 sequences assigned
2467 (31.9%) exact matches, in which:
136 unique CDR3
5 unique J



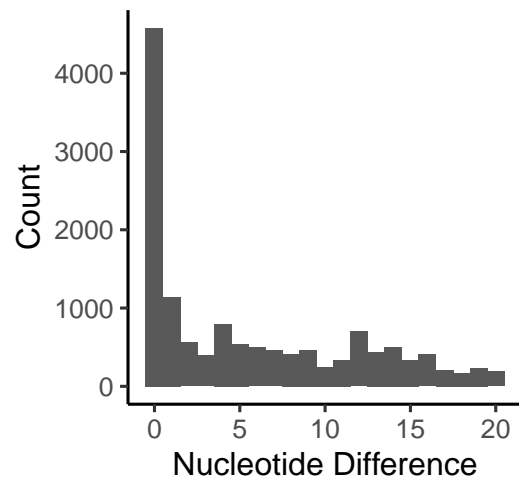
IGKV1-12*01

11162 sequences assigned
2467 (22.1%) exact matches, in which:
114 unique CDR3
5 unique J



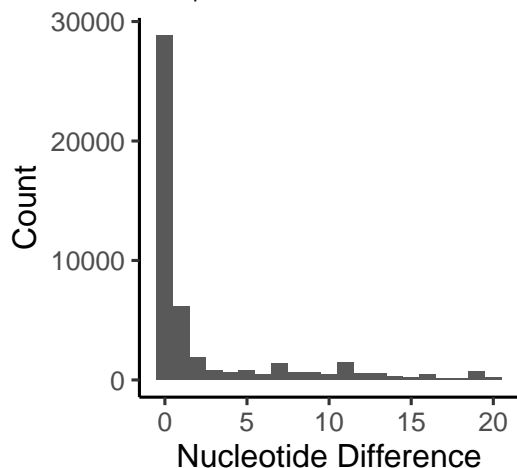
IGKV1-27*01

14164 sequences assigned
4578 (32.3%) exact matches, in which:
230 unique CDR3
5 unique J



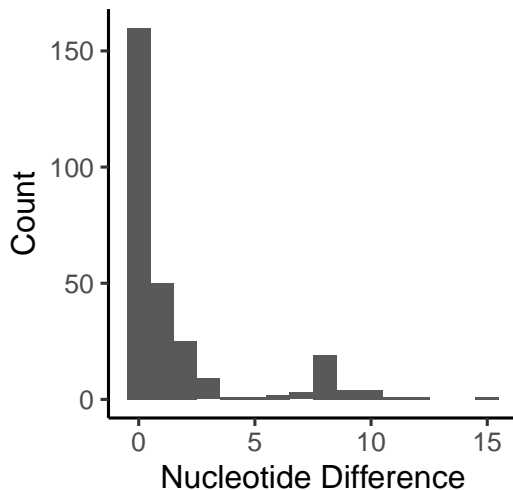
IGKV1-33*01

52643 sequences assigned
28859 (54.8%) exact matches, in which:
1129 unique CDR3
5 unique J



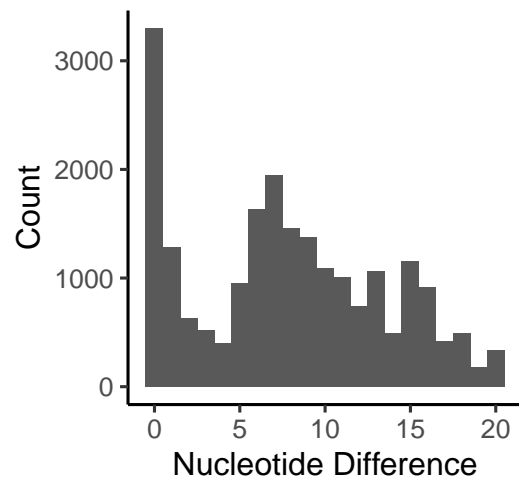
IGKV2-18*01

281 sequences assigned
160 (56.9%) exact matches, in which:
14 unique CDR3
4 unique J



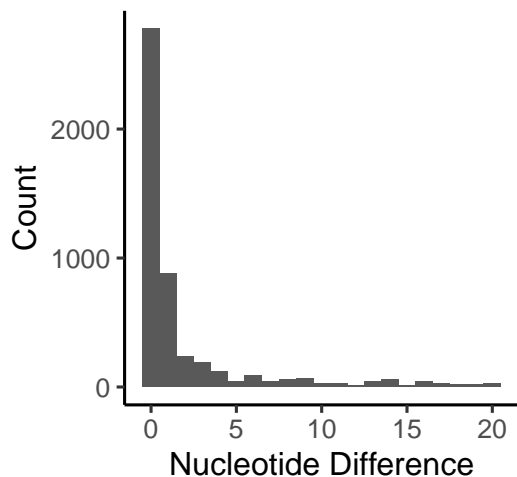
IGKV2-30*01

22561 sequences assigned
3298 (14.6%) exact matches, in which:
247 unique CDR3
5 unique J



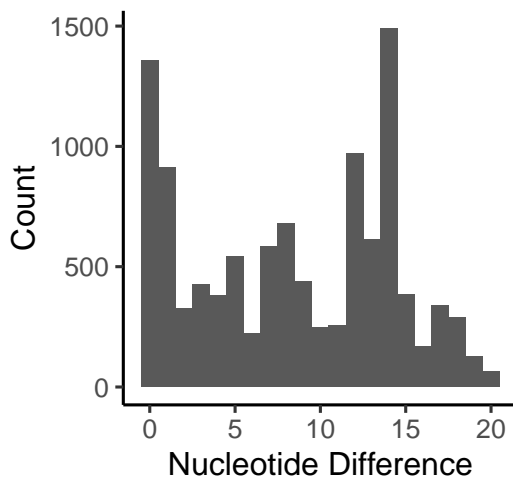
IGKV1-37*01

4867 sequences assigned
2778 (57.1%) exact matches, in which:
170 unique CDR3
5 unique J



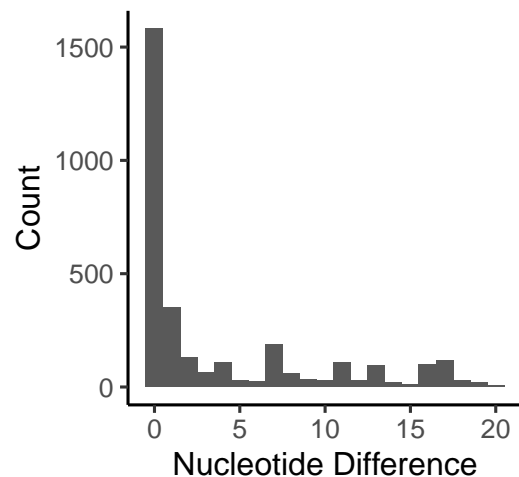
IGKV2-24*01

11225 sequences assigned
1359 (12.1%) exact matches, in which:
117 unique CDR3
5 unique J



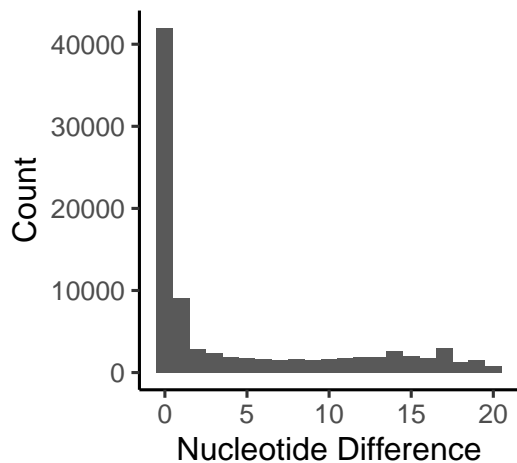
IGKV2-40*01

4203 sequences assigned
1581 (37.6%) exact matches, in which:
81 unique CDR3
5 unique J



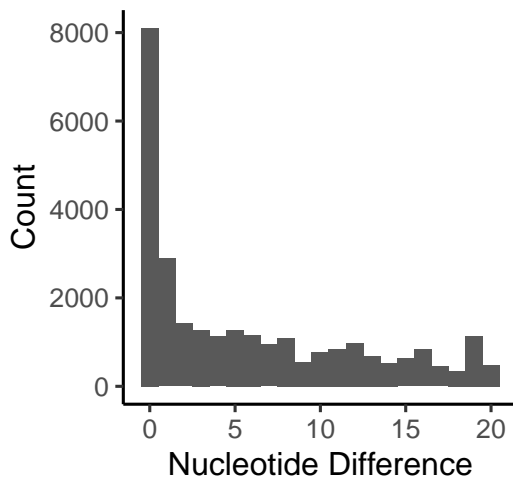
IGKV1-39*01

101850 sequences assigned
42003 (41.2%) exact matches, in which:
1363 unique CDR3
5 unique J



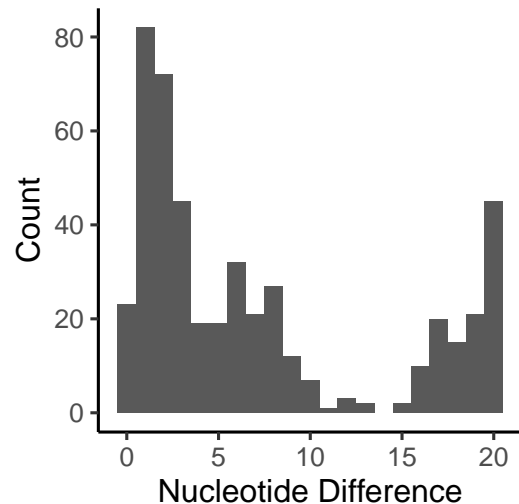
IGKV2-28*01

30746 sequences assigned
8103 (26.4%) exact matches, in which:
423 unique CDR3
5 unique J



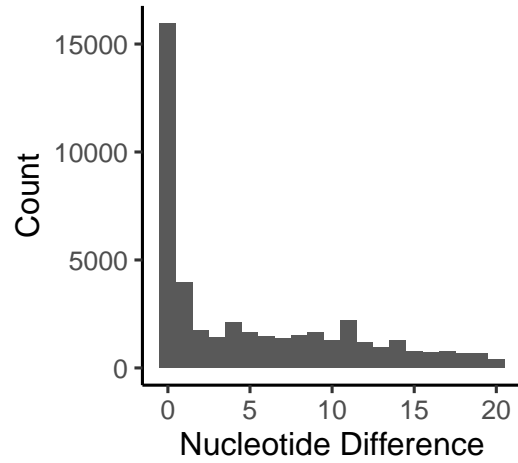
IGKV3-7*04_S1697

1023 sequences assigned
23 (2.2%) exact matches, in which:
9 unique CDR3
5 unique J



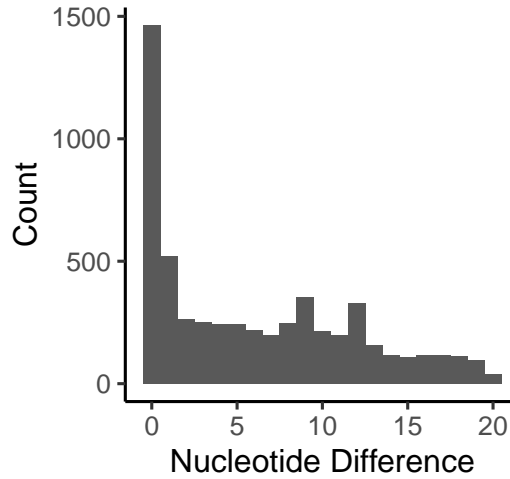
IGKV3-11*01

46227 sequences assigned
15967 (34.5%) exact matches, in which:
1053 unique CDR3
5 unique J



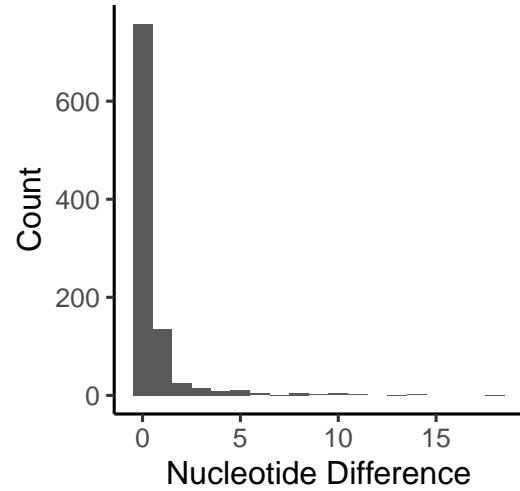
IGKV4-1*01

6276 sequences assigned
1463 (23.3%) exact matches, in which:
304 unique CDR3
5 unique J



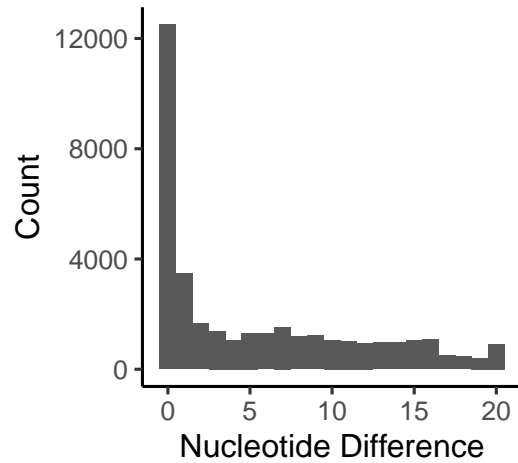
IGKV1D-8*01

976 sequences assigned
758 (77.7%) exact matches, in which:
50 unique CDR3
5 unique J



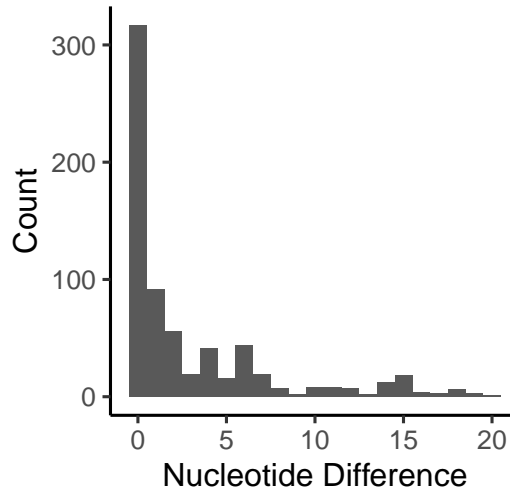
IGKV3-15*01

41844 sequences assigned
12508 (29.9%) exact matches, in which:
697 unique CDR3
5 unique J



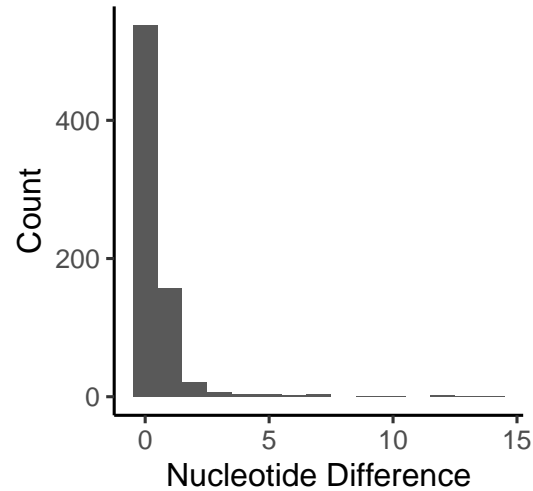
IGKV5-2*01

1185 sequences assigned
317 (26.8%) exact matches, in which:
83 unique CDR3
5 unique J



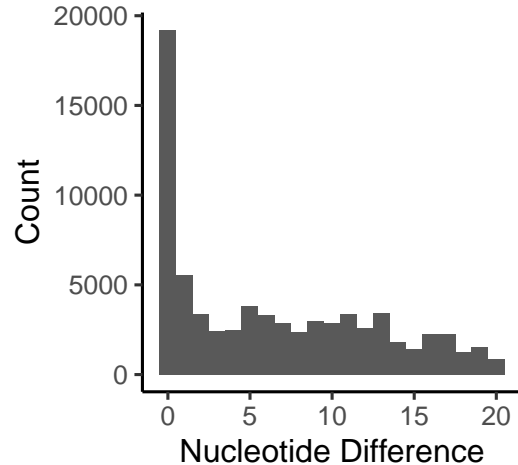
IGKV1D-8*01_S8780

747 sequences assigned
538 (72%) exact matches, in which:
42 unique CDR3
5 unique J



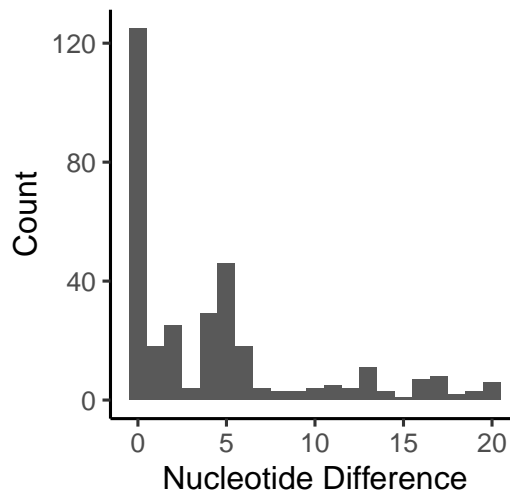
IGKV3-20*01

81204 sequences assigned
19215 (23.7%) exact matches, in which:
1317 unique CDR3
5 unique J



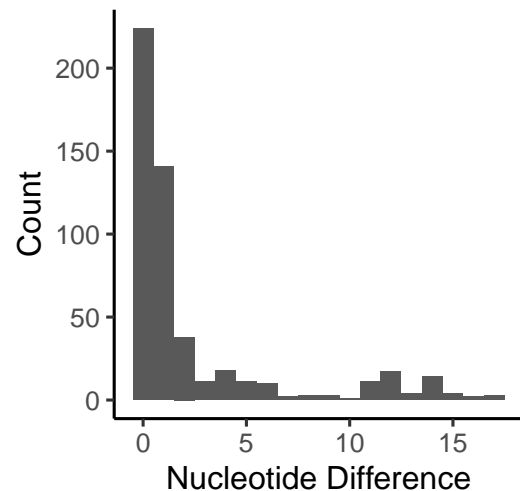
IGKV6-21*01

454 sequences assigned
125 (27.5%) exact matches, in which:
29 unique CDR3
5 unique J



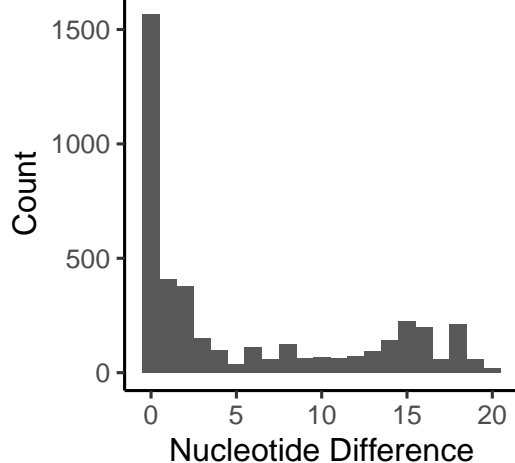
IGKV3D-11*01

562 sequences assigned
224 (39.9%) exact matches, in which:
41 unique CDR3
4 unique J



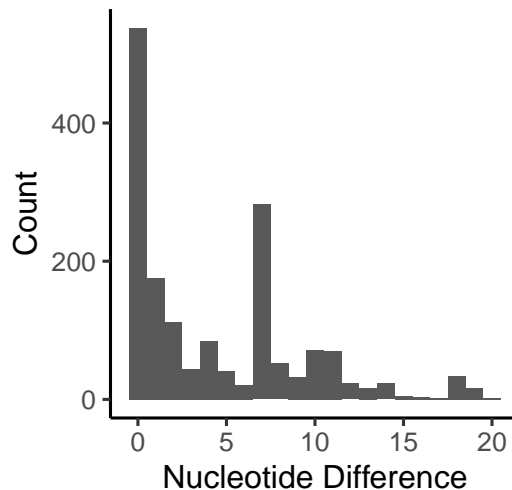
IGKV1D-12*01

4497 sequences assigned
1566 (34.8%) exact matches, in which:
76 unique CDR3
5 unique J



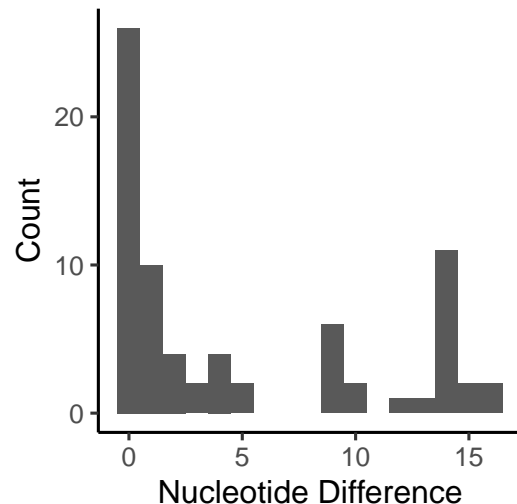
IGKV1D-16*01

1681 sequences assigned
538 (32%) exact matches, in which:
49 unique CDR3
5 unique J



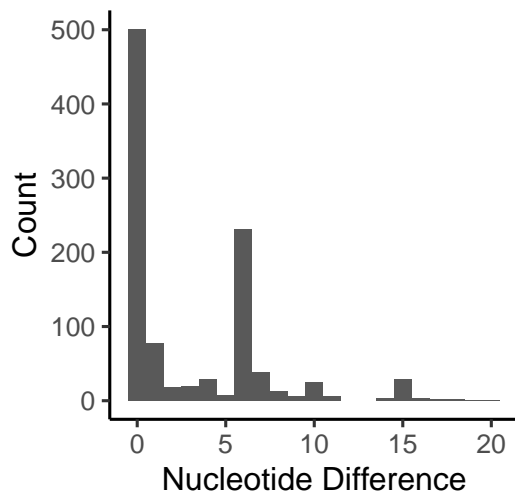
IGKV6D-21*02

84 sequences assigned
26 (31%) exact matches, in which:
6 unique CDR3
4 unique J



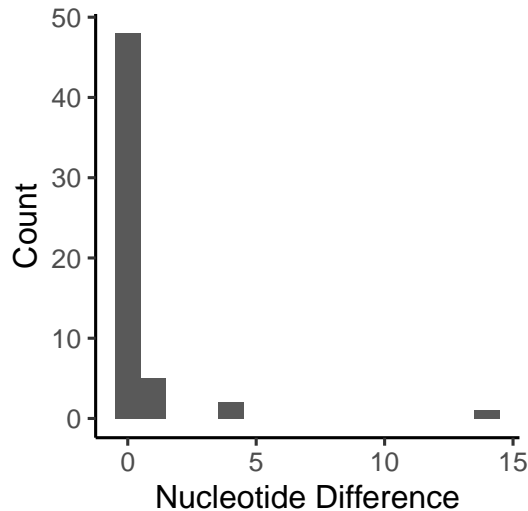
IGKV1D-13*01

1014 sequences assigned
501 (49.4%) exact matches, in which:
40 unique CDR3
3 unique J



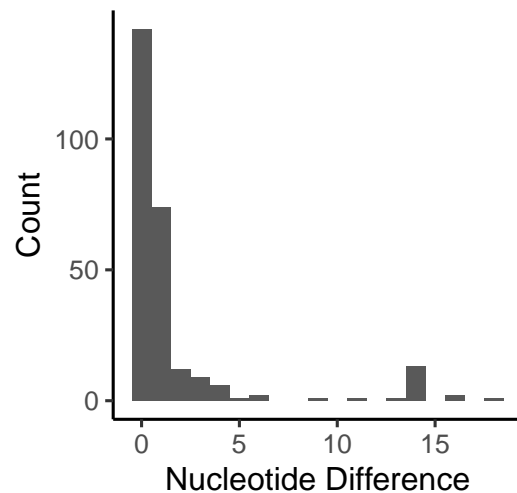
IGKV1D-17*01

56 sequences assigned
48 (85.7%) exact matches, in which:
5 unique CDR3
3 unique J



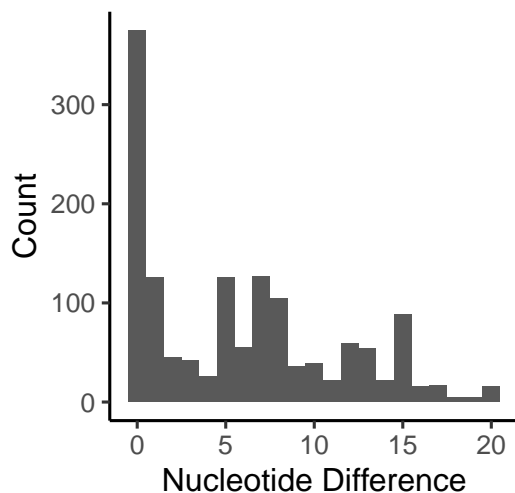
IGKV2D-24*01

267 sequences assigned
142 (53.2%) exact matches, in which:
17 unique CDR3
5 unique J



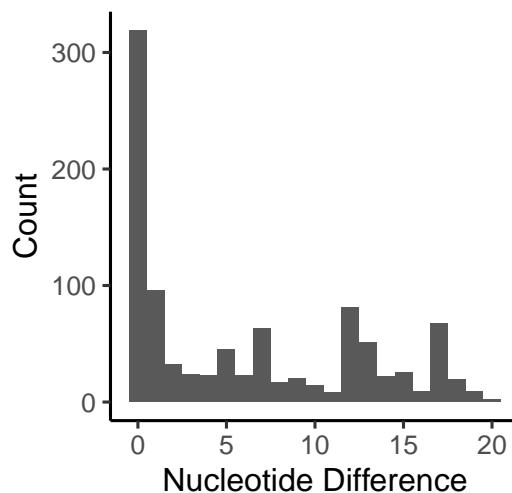
IGKV3D-15*01

1684 sequences assigned
375 (22.3%) exact matches, in which:
47 unique CDR3
5 unique J



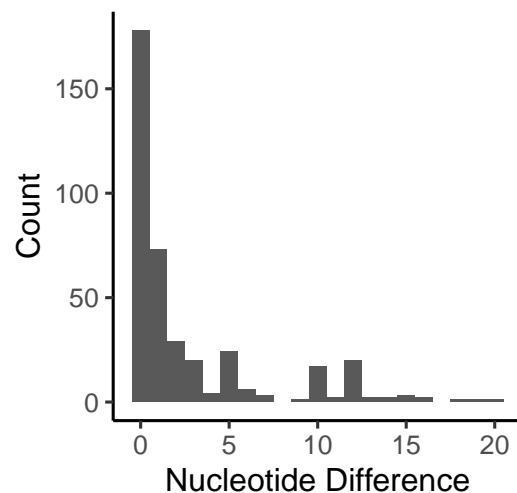
IGKV3D-20*01

998 sequences assigned
319 (32%) exact matches, in which:
50 unique CDR3
5 unique J



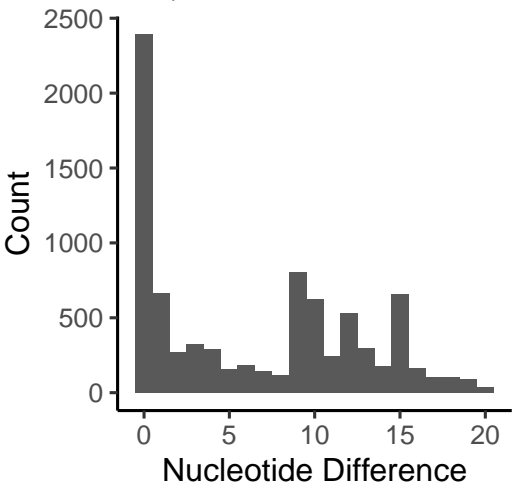
IGKV2D-26*03

407 sequences assigned
178 (43.7%) exact matches, in which:
16 unique CDR3
5 unique J



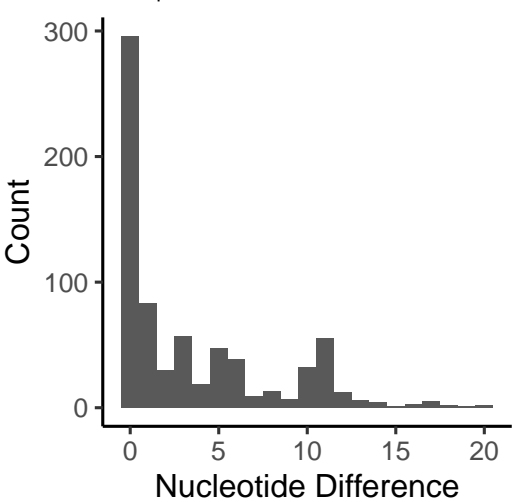
IGKV2D-29*01

10964 sequences assigned
2392 (21.8%) exact matches, in which:
139 unique CDR3
5 unique J



IGKV2D-30*01

727 sequences assigned
296 (40.7%) exact matches, in which:
28 unique CDR3
4 unique J



IGKV1D-43*01

1149 sequences assigned
738 (64.2%) exact matches, in which:
58 unique CDR3
5 unique J

