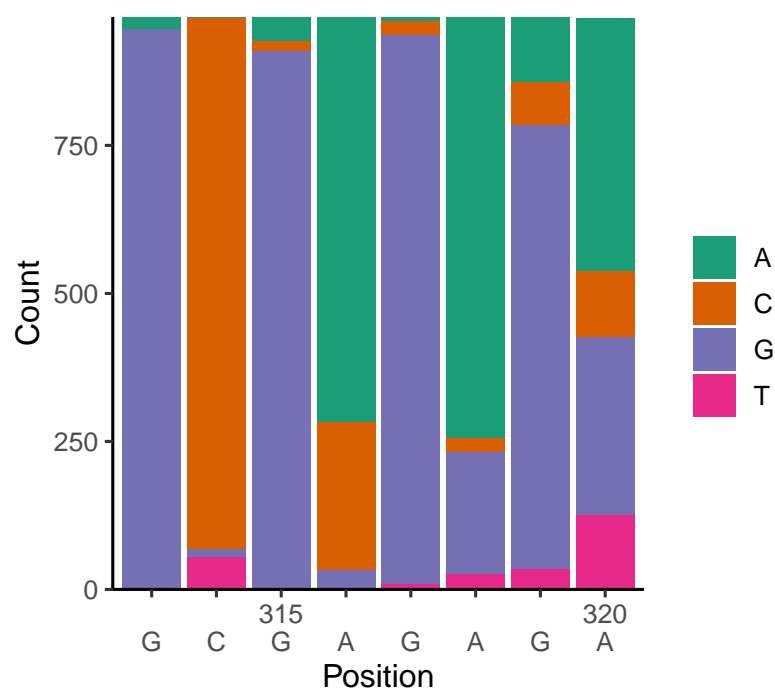
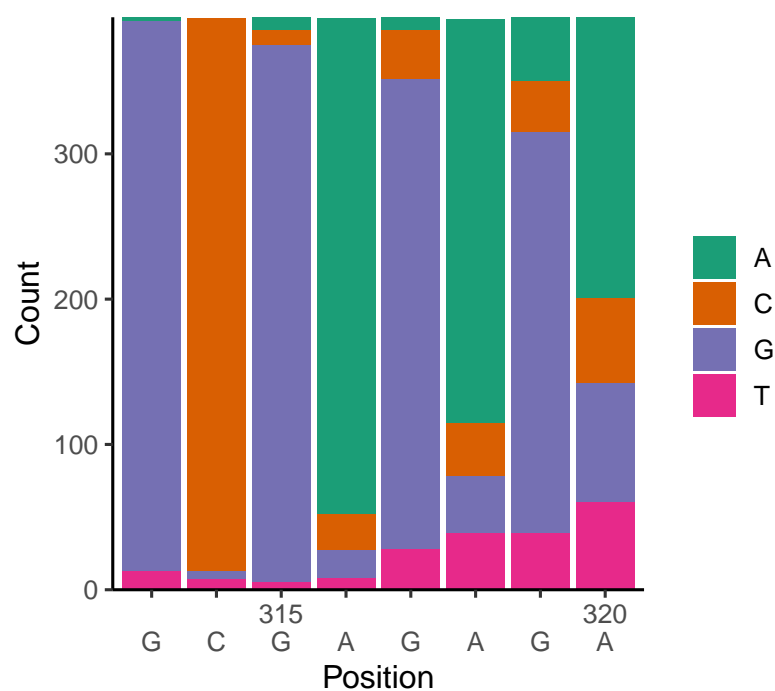


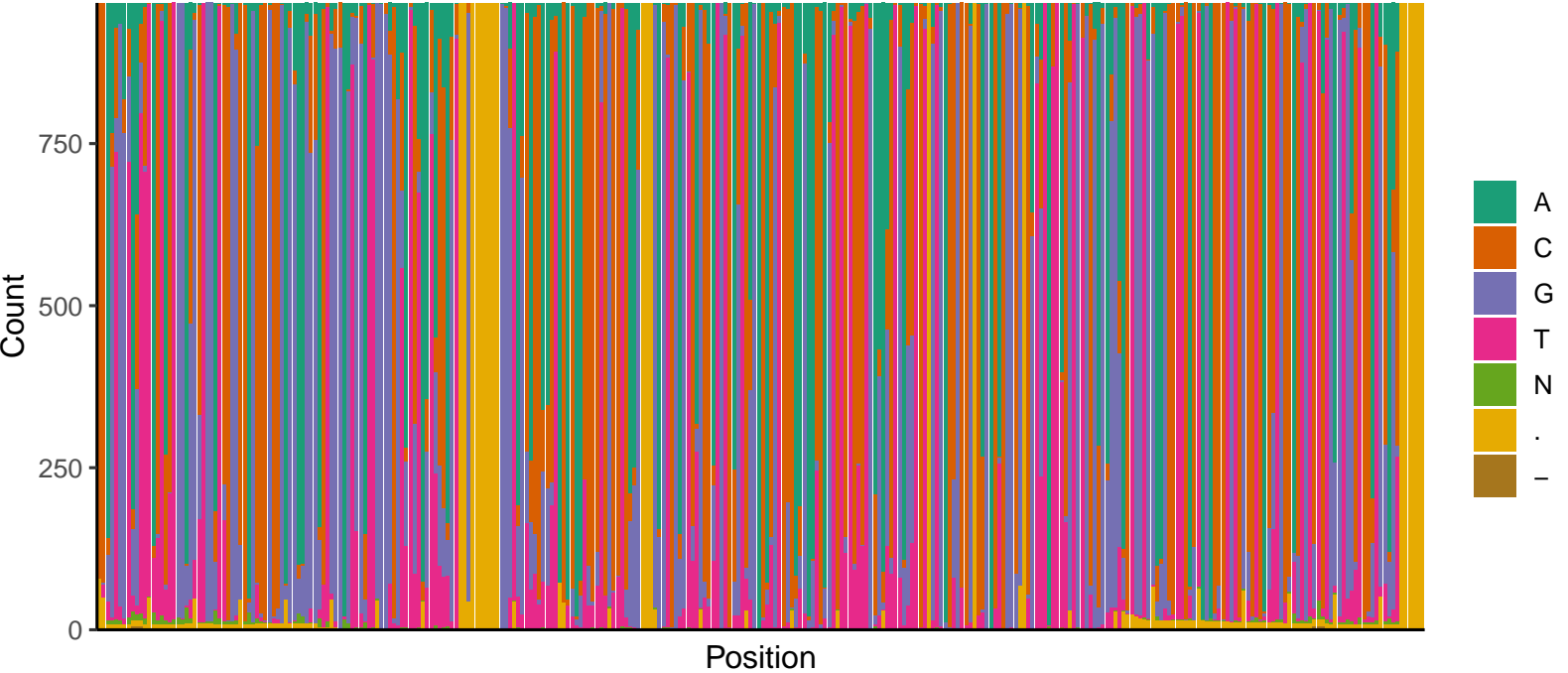
Gene IGHV4-61*02_A234G



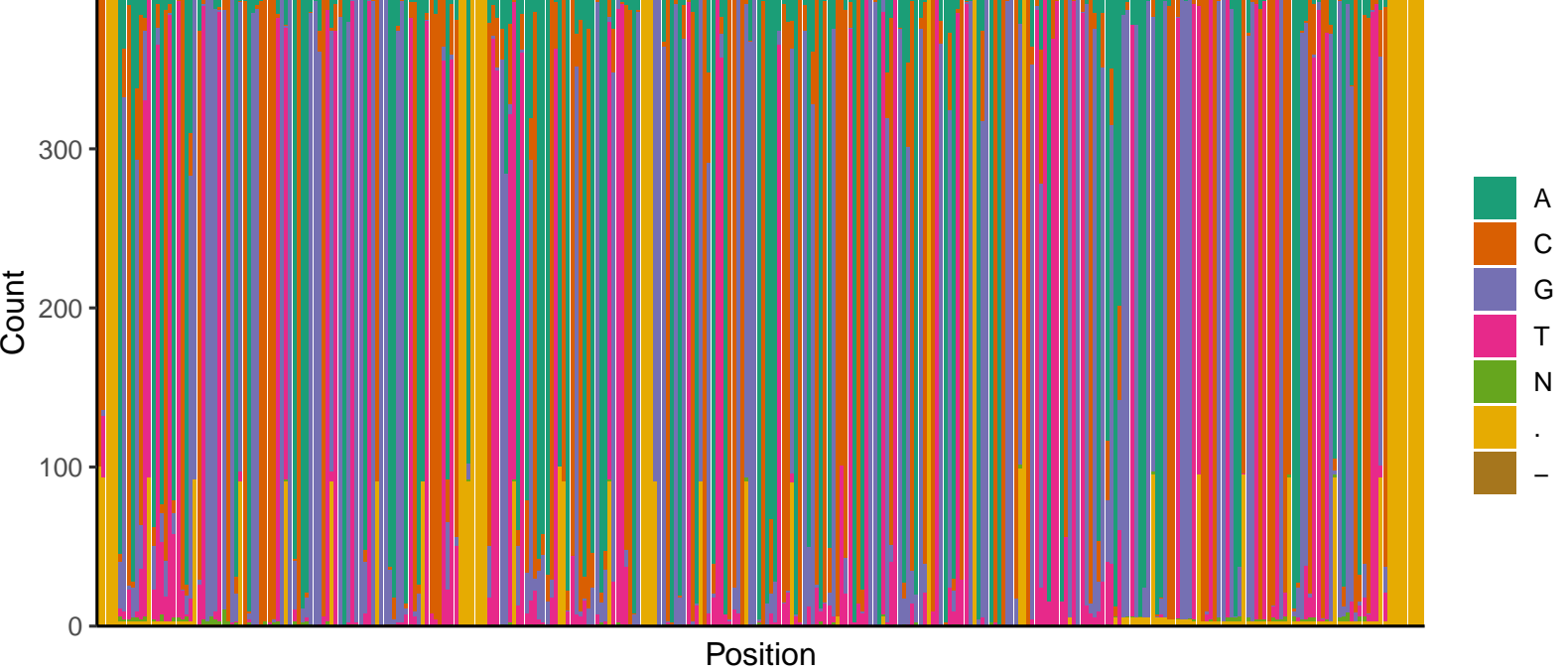
Gene IGHV1-69*08_C191T



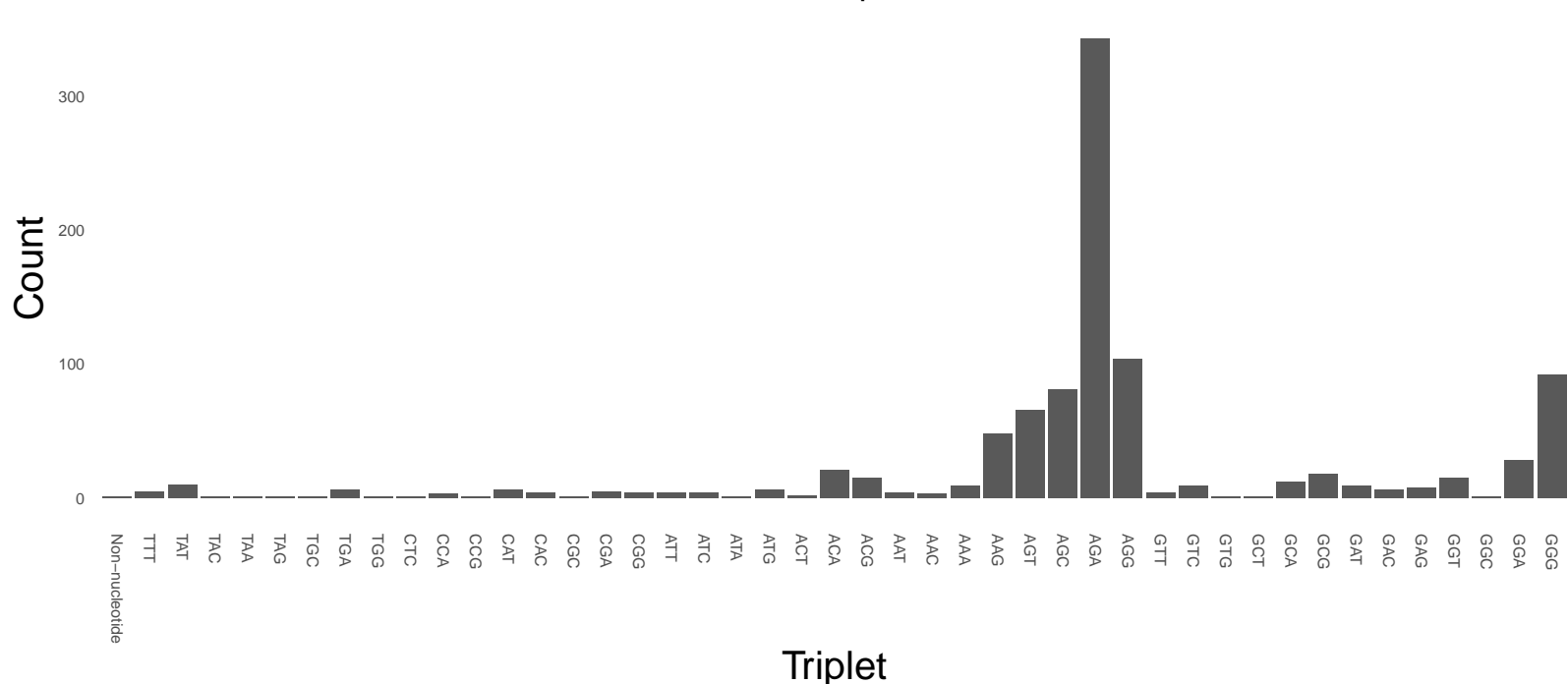
Gene IGHV4-61*02_A234G



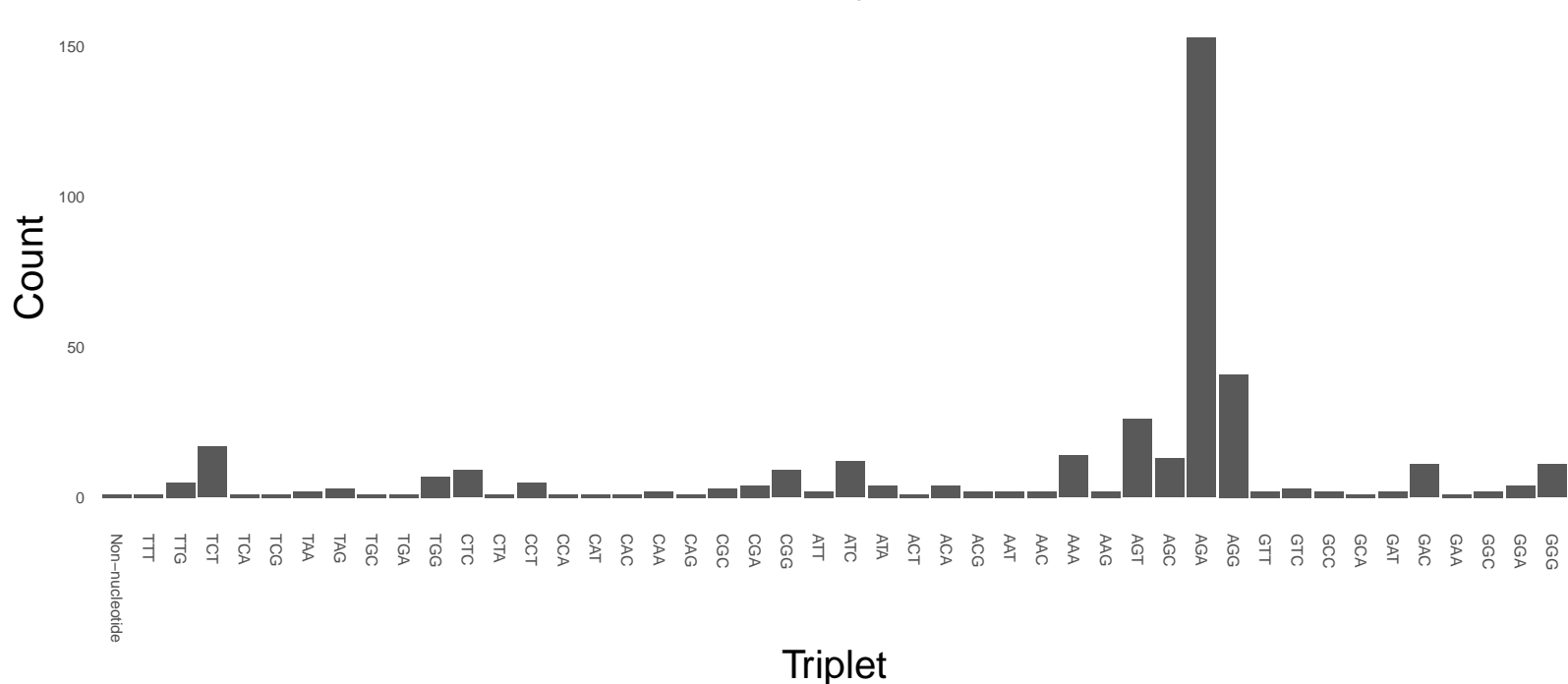
Gene IGHV1-69*08_C191T



IGHV4–61*02_A234G– Final 3 nucleotides as a triplet

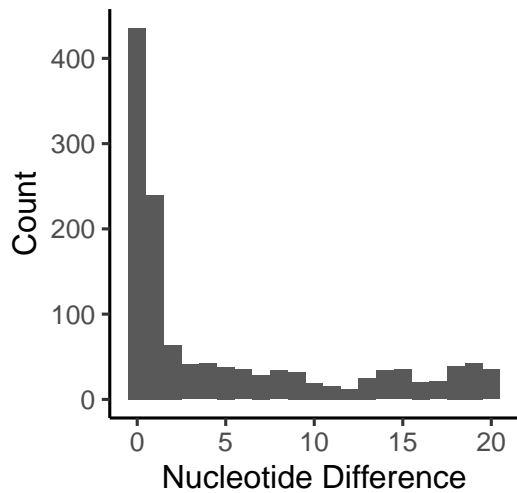


IGHV1–69*08_C191T– Final 3 nucleotides as a triplet



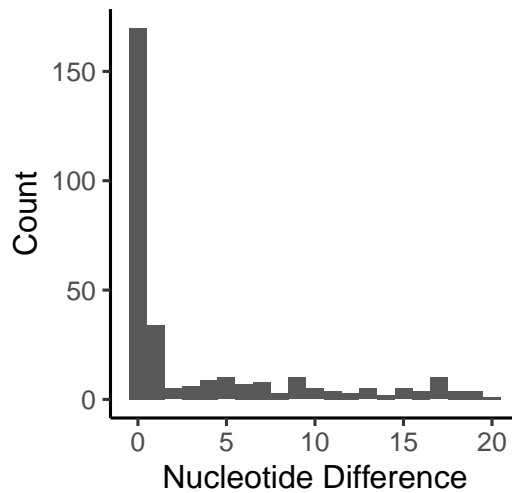
IGHV1-2*02

1759 sequences assigned
436 (24.8%) exact matches, in which:
428 unique CDR3
7 unique J



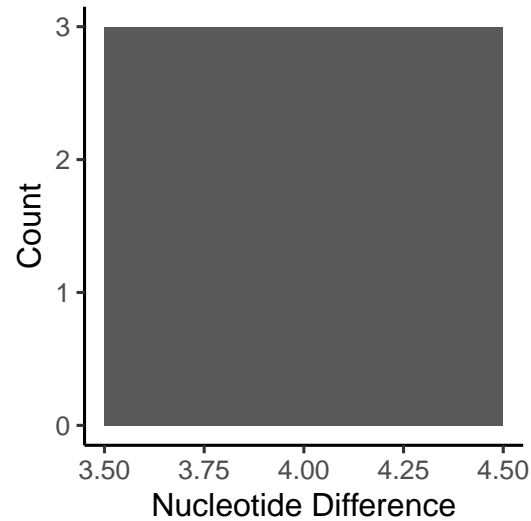
IGHV1-8*01

402 sequences assigned
170 (42.3%) exact matches, in which:
166 unique CDR3
7 unique J



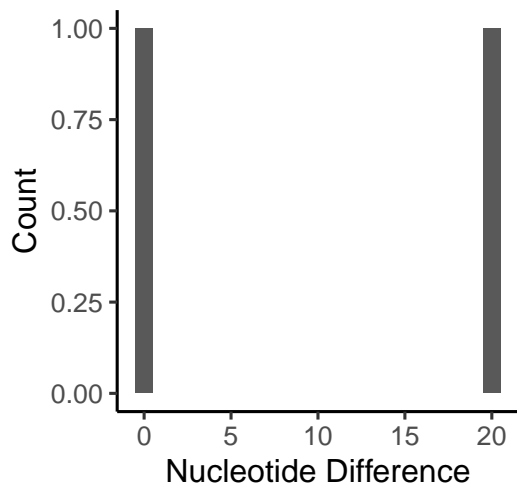
IGHV1-45*02

19 sequences assigned
No exact matches.



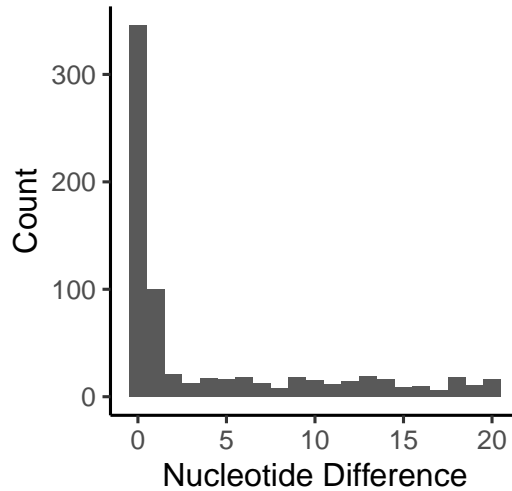
IGHV1-3*01

2 sequences assigned
1 (50%) exact matches, in which:
1 unique CDR3
1 unique J



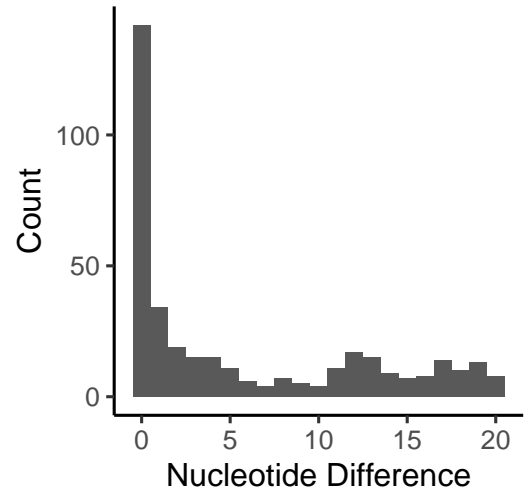
IGHV1-18*01

1061 sequences assigned
346 (32.6%) exact matches, in which:
339 unique CDR3
7 unique J



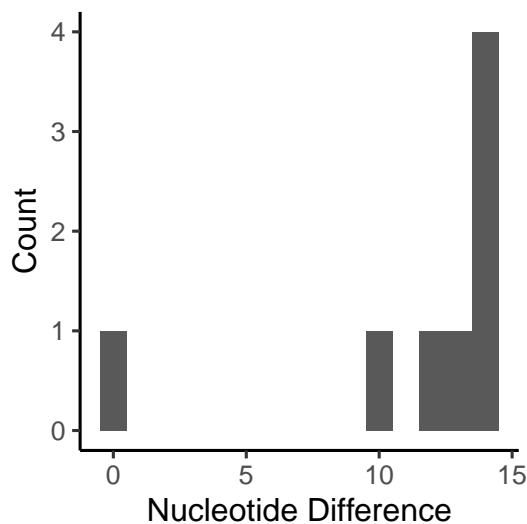
IGHV1-46*03

579 sequences assigned
142 (24.5%) exact matches, in which:
137 unique CDR3
7 unique J



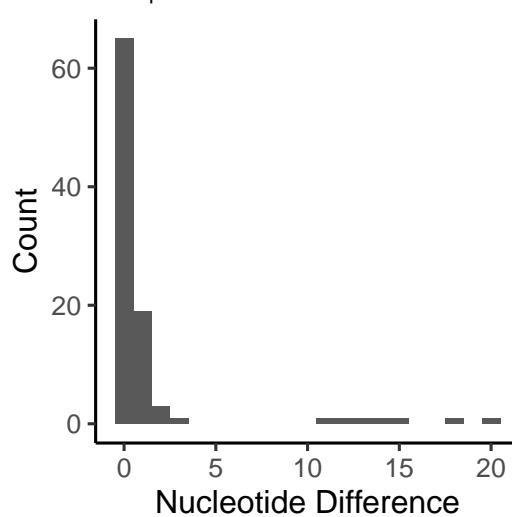
IGHV1-3*02

11 sequences assigned
1 (9.1%) exact matches, in which:
1 unique CDR3
1 unique J



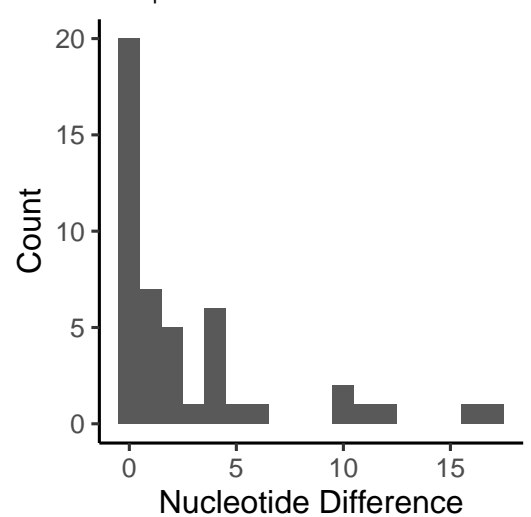
IGHV1-24*01

128 sequences assigned
65 (50.8%) exact matches, in which:
64 unique CDR3
7 unique J



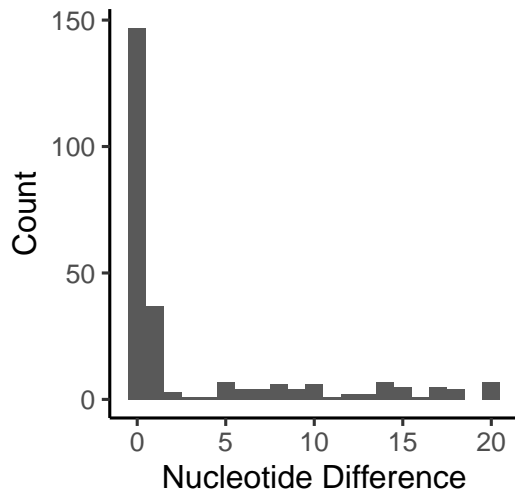
IGHV1-58*02

68 sequences assigned
20 (29.4%) exact matches, in which:
18 unique CDR3
5 unique J



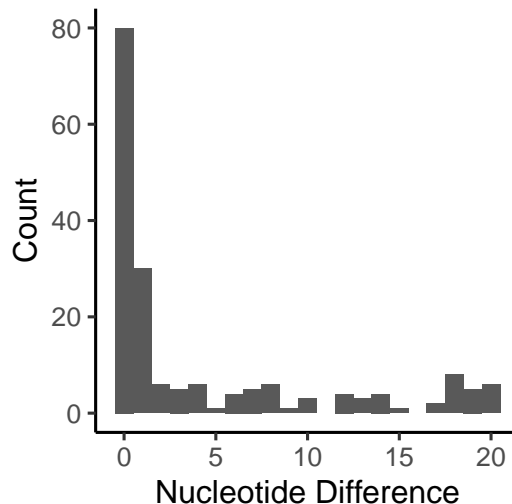
IGHV1–69*08_C191T

394 sequences assigned
147 (37.3%) exact matches, in which:
139 unique CDR3
6 unique J



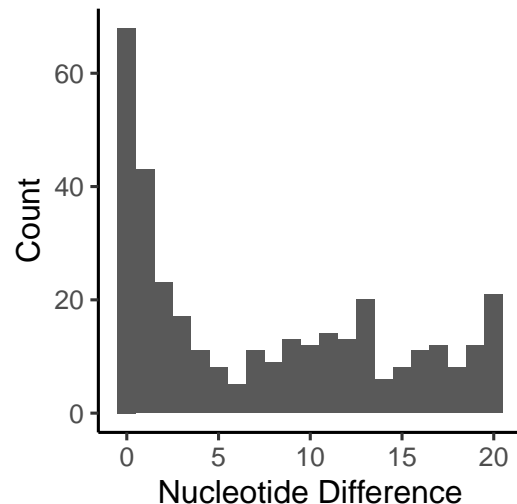
IGHV2–26*01

229 sequences assigned
80 (34.9%) exact matches, in which:
79 unique CDR3
6 unique J



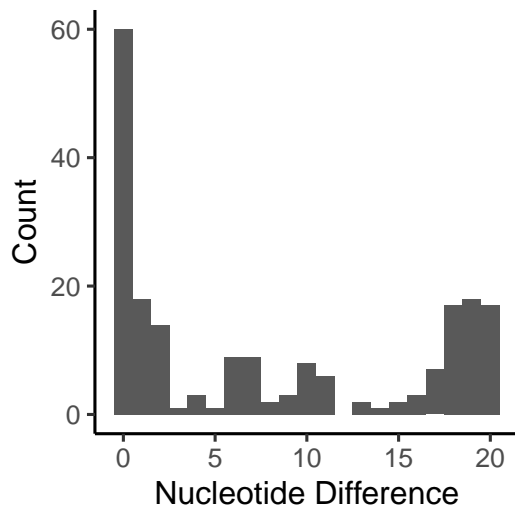
IGHV3–7*01

687 sequences assigned
68 (9.9%) exact matches, in which:
64 unique CDR3
5 unique J



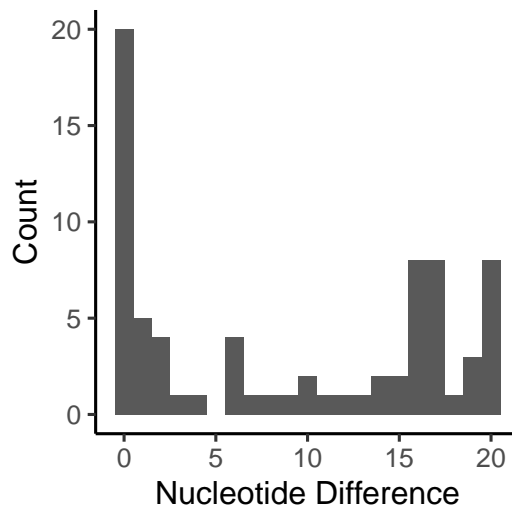
IGHV2–5*01

296 sequences assigned
60 (20.3%) exact matches, in which:
60 unique CDR3
5 unique J



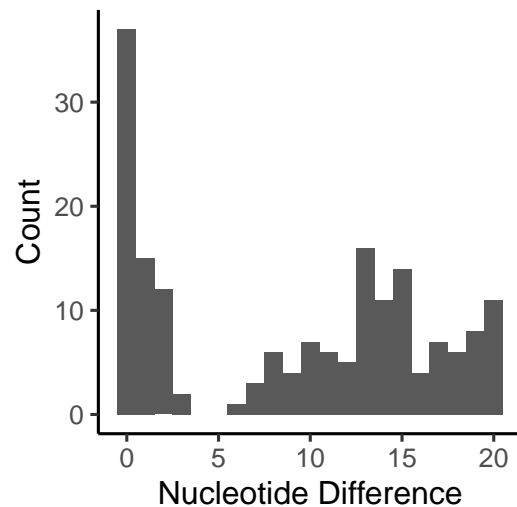
IGHV2–70*01

104 sequences assigned
20 (19.2%) exact matches, in which:
20 unique CDR3
5 unique J



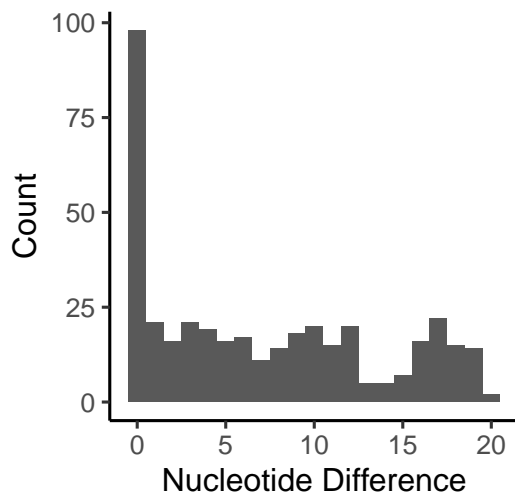
IGHV3–7*04

269 sequences assigned
37 (13.8%) exact matches, in which:
35 unique CDR3
6 unique J



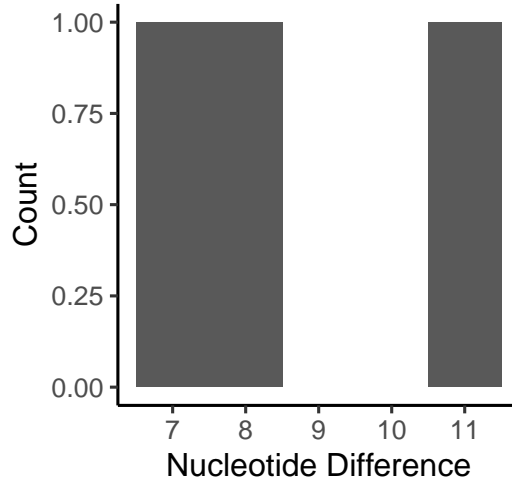
IGHV2–5*02

638 sequences assigned
98 (15.4%) exact matches, in which:
98 unique CDR3
5 unique J



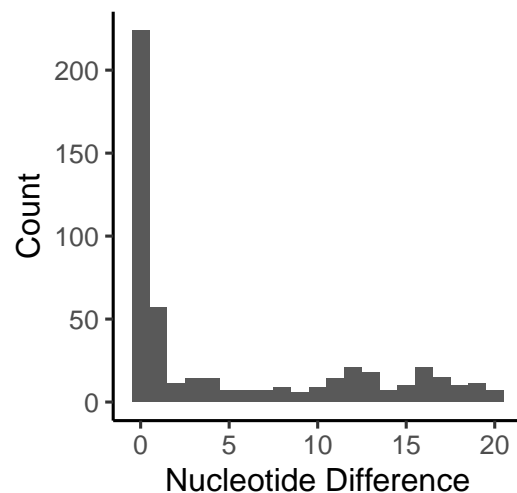
IGHV2–70D*04

3 sequences assigned
No exact matches.



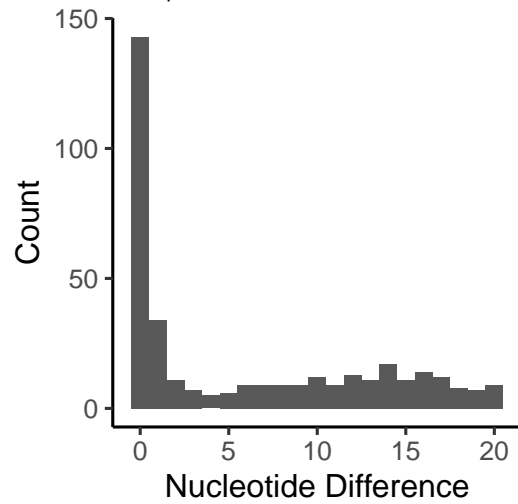
IGHV3–9*01

920 sequences assigned
224 (24.3%) exact matches, in which:
217 unique CDR3
7 unique J



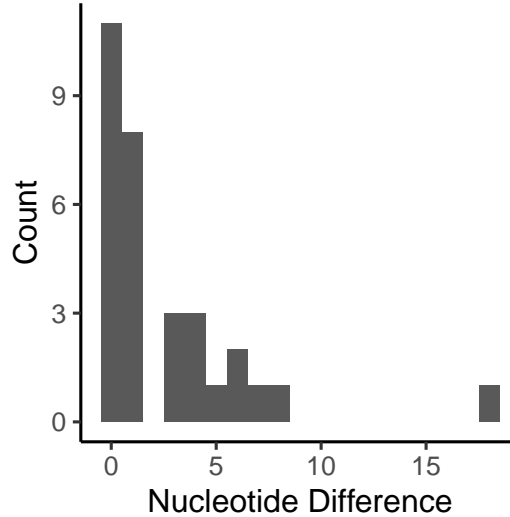
IGHV3-11*01

691 sequences assigned
143 (20.7%) exact matches, in which:
136 unique CDR3
6 unique J



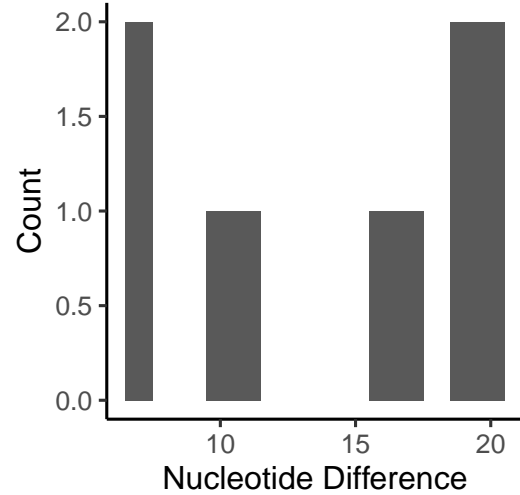
IGHV3-13*05

32 sequences assigned
11 (34.4%) exact matches, in which:
11 unique CDR3
4 unique J



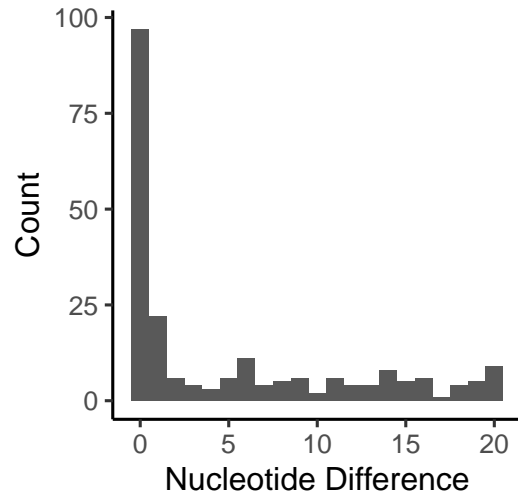
IGHV3-20*04

95 sequences assigned
No exact matches.



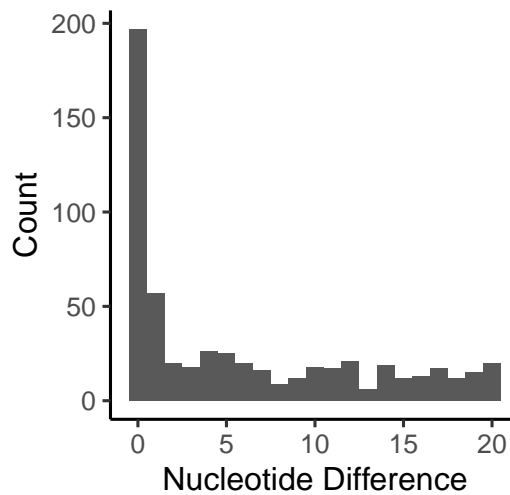
IGHV3-11*06

322 sequences assigned
97 (30.1%) exact matches, in which:
95 unique CDR3
5 unique J



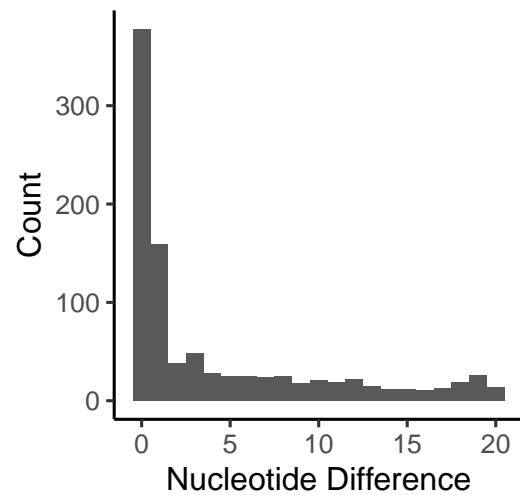
IGHV3-15*01

936 sequences assigned
197 (21%) exact matches, in which:
193 unique CDR3
6 unique J



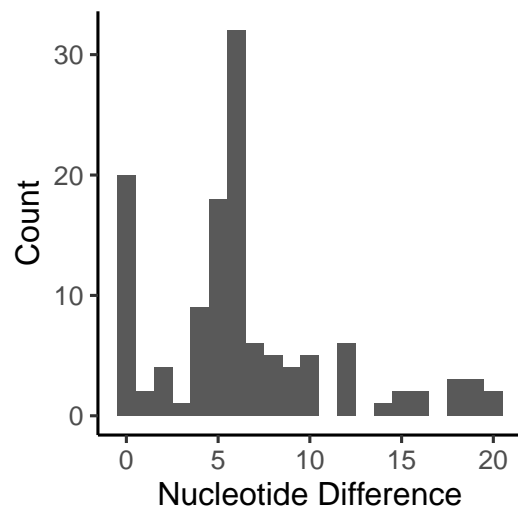
IGHV3-21*01

1386 sequences assigned
378 (27.3%) exact matches, in which:
372 unique CDR3
7 unique J



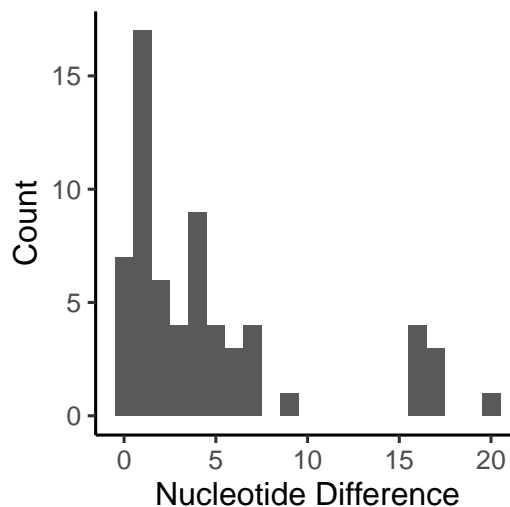
IGHV3-13*01

142 sequences assigned
20 (14.1%) exact matches, in which:
20 unique CDR3
4 unique J



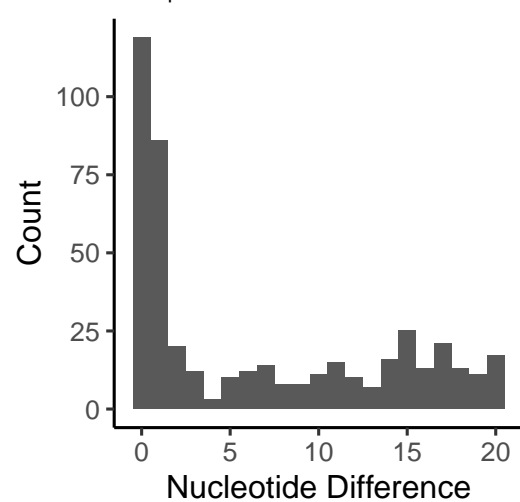
IGHV3-20*01

65 sequences assigned
7 (10.8%) exact matches, in which:
6 unique CDR3
4 unique J



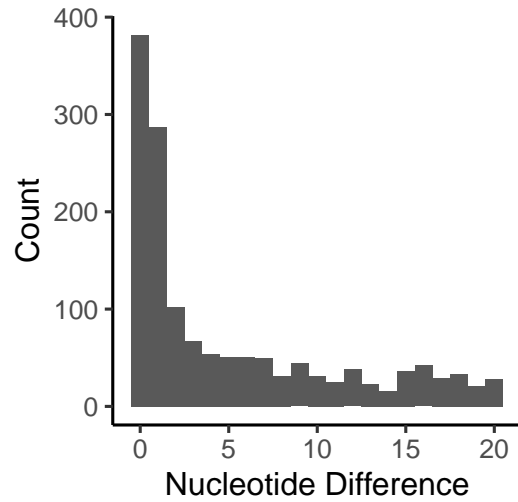
IGHV3-30-3*01

826 sequences assigned
119 (14.4%) exact matches, in which:
118 unique CDR3
5 unique J



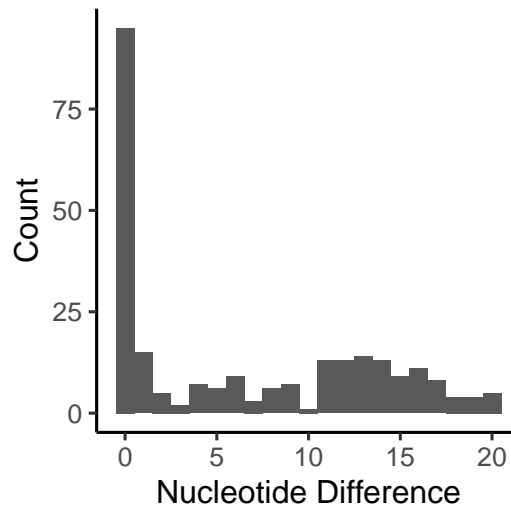
IGHV3-33*01

2945 sequences assigned
382 (13%) exact matches, in which:
373 unique CDR3
7 unique J



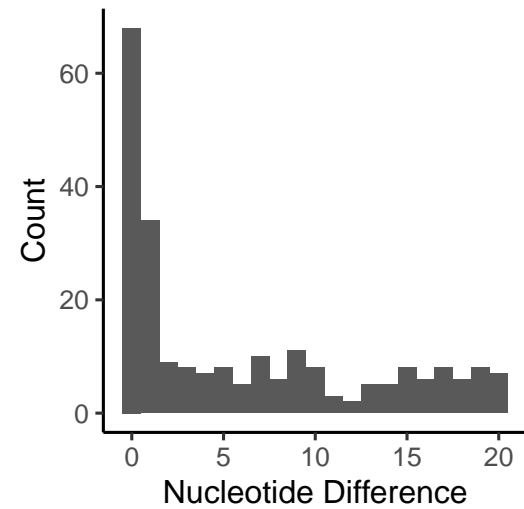
IGHV3-49*03

344 sequences assigned
95 (27.6%) exact matches, in which:
93 unique CDR3
7 unique J



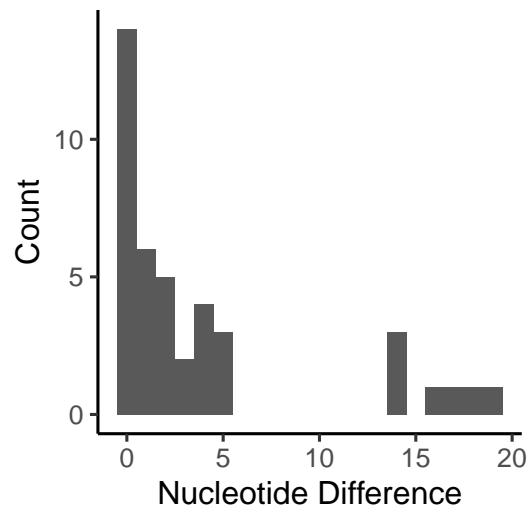
IGHV3-66*02

411 sequences assigned
68 (16.5%) exact matches, in which:
67 unique CDR3
6 unique J



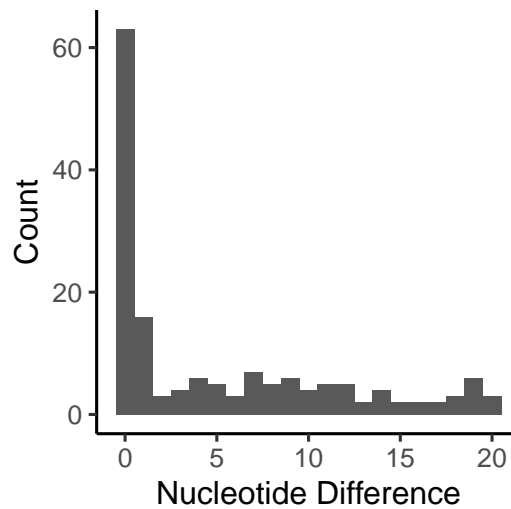
IGHV3-43*01

46 sequences assigned
14 (30.4%) exact matches, in which:
13 unique CDR3
3 unique J



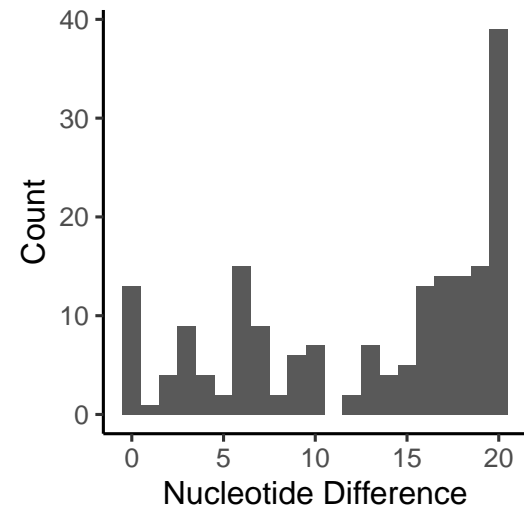
IGHV3-53*02

239 sequences assigned
63 (26.4%) exact matches, in which:
60 unique CDR3
6 unique J



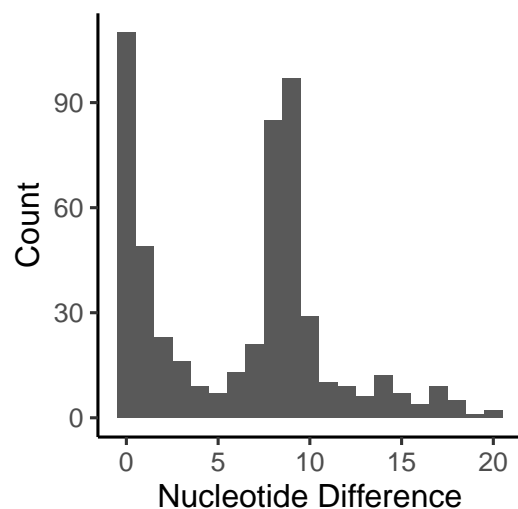
IGHV3-72*01

262 sequences assigned
13 (5%) exact matches, in which:
11 unique CDR3
3 unique J



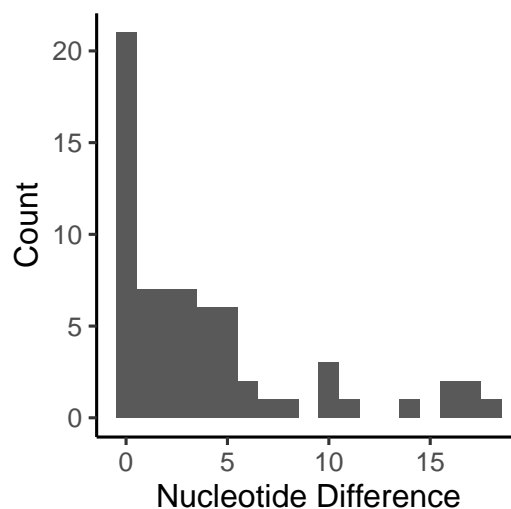
IGHV3-48*01

750 sequences assigned
110 (14.7%) exact matches, in which:
103 unique CDR3
7 unique J



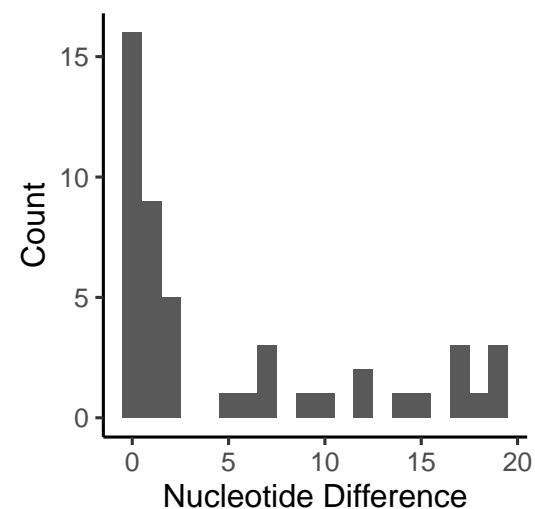
IGHV3-64*01

82 sequences assigned
21 (25.6%) exact matches, in which:
20 unique CDR3
3 unique J



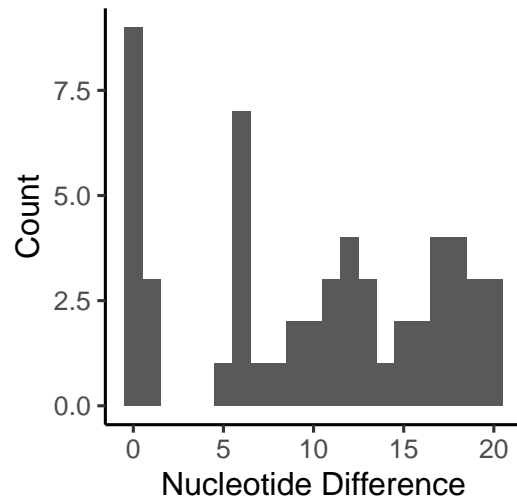
IGHV3-73*01

95 sequences assigned
16 (16.8%) exact matches, in which:
16 unique CDR3
4 unique J



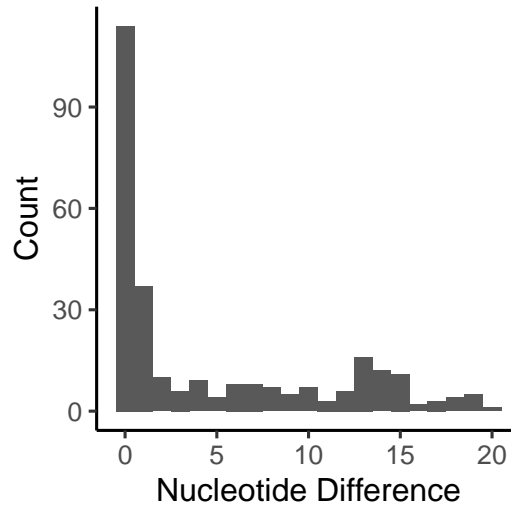
IGHV3-73*02

97 sequences assigned
9 (9.3%) exact matches, in which:
9 unique CDR3
2 unique J



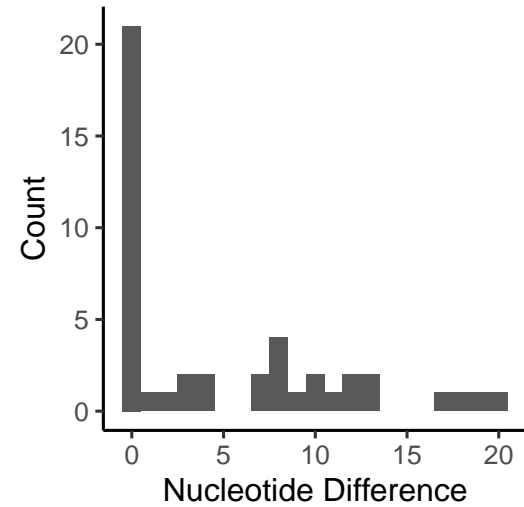
IGHV4-4*07

472 sequences assigned
114 (24.2%) exact matches, in which:
113 unique CDR3
7 unique J



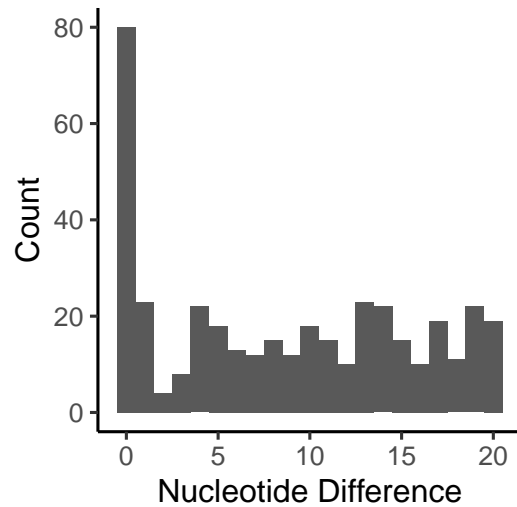
IGHV4-30-2*01

69 sequences assigned
21 (30.4%) exact matches, in which:
21 unique CDR3
5 unique J



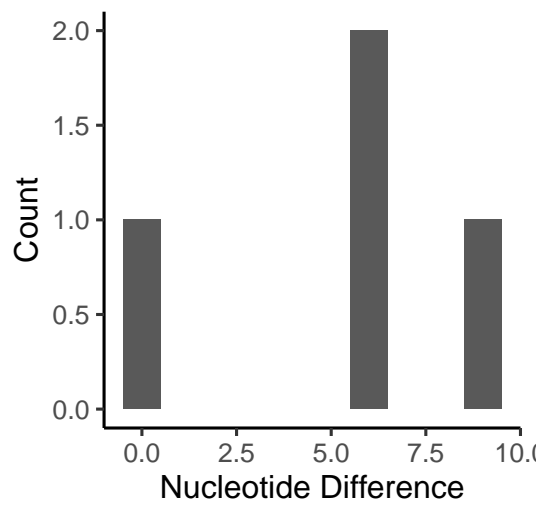
IGHV3-74*01

611 sequences assigned
80 (13.1%) exact matches, in which:
79 unique CDR3
6 unique J



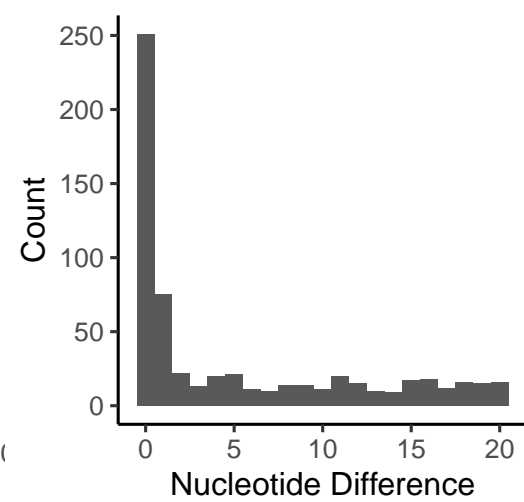
IGHV4-28*01

7 sequences assigned
1 (14.3%) exact matches, in which:
1 unique CDR3
1 unique J



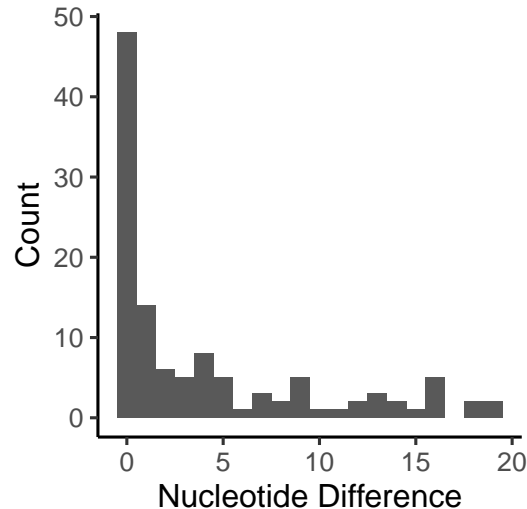
IGHV4-31*03

957 sequences assigned
251 (26.2%) exact matches, in which:
249 unique CDR3
7 unique J



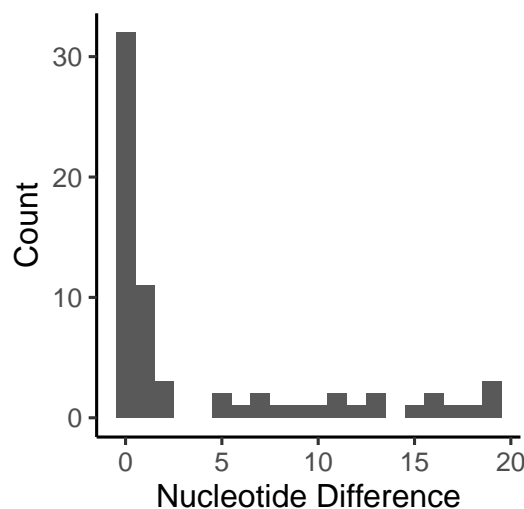
IGHV3-64D*06

246 sequences assigned
48 (19.5%) exact matches, in which:
47 unique CDR3
5 unique J



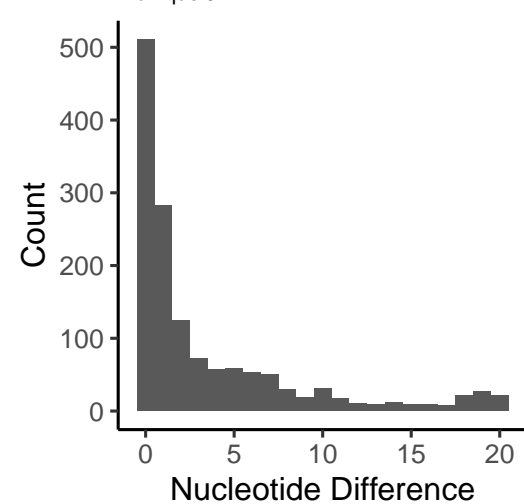
IGHV4-30-4*01

175 sequences assigned
32 (18.3%) exact matches, in which:
31 unique CDR3
6 unique J



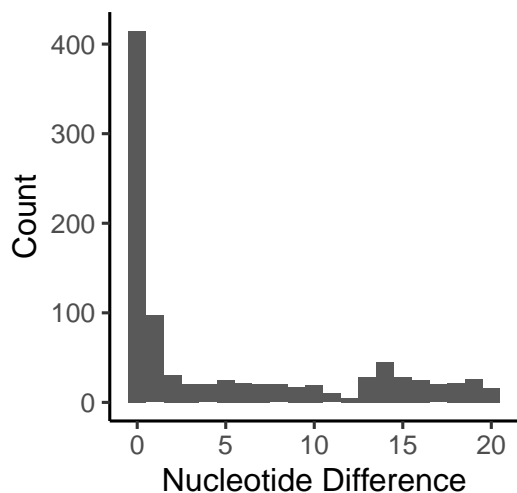
IGHV4-34*01

2028 sequences assigned
511 (25.2%) exact matches, in which:
476 unique CDR3
7 unique J



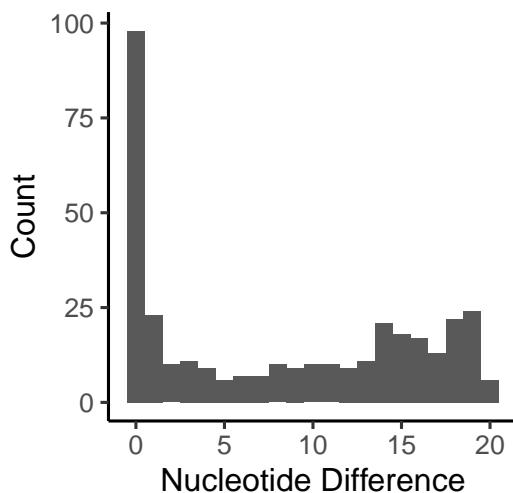
IGHV4–39*01

1653 sequences assigned
415 (25.1%) exact matches, in which:
402 unique CDR3
6 unique J



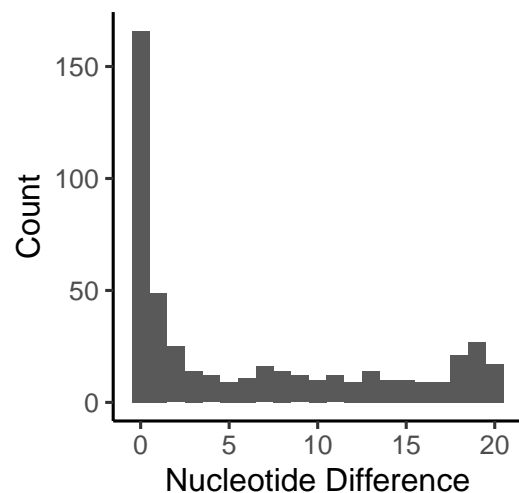
IGHV4–61*02_A234G

967 sequences assigned
98 (10.1%) exact matches, in which:
94 unique CDR3
5 unique J



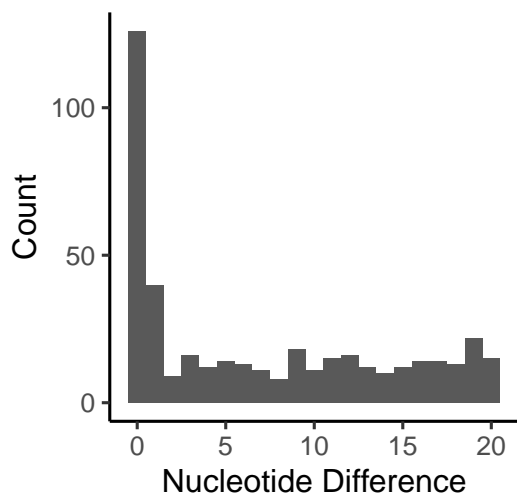
IGHV5–51*03

688 sequences assigned
166 (24.1%) exact matches, in which:
161 unique CDR3
7 unique J



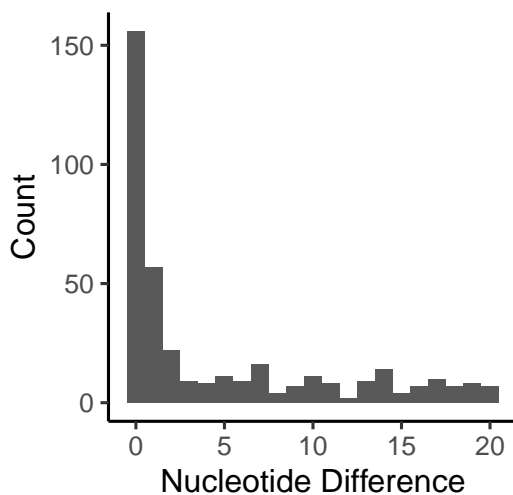
IGHV4–59*01

691 sequences assigned
126 (18.2%) exact matches, in which:
125 unique CDR3
6 unique J



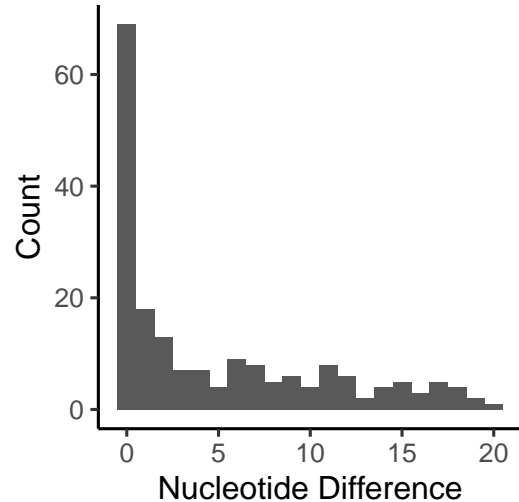
IGHV5–10–1*03

614 sequences assigned
156 (25.4%) exact matches, in which:
155 unique CDR3
6 unique J



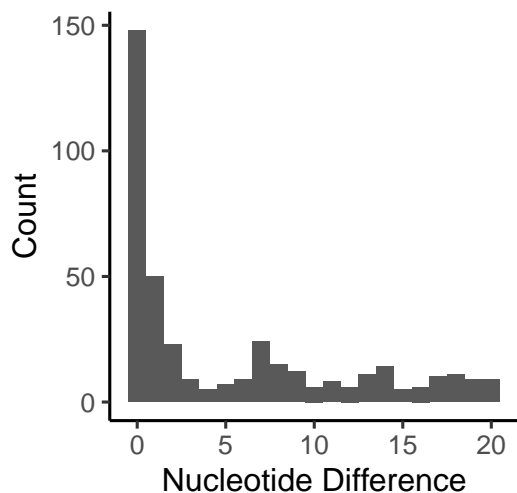
IGHV6–1*01

237 sequences assigned
69 (29.1%) exact matches, in which:
66 unique CDR3
6 unique J



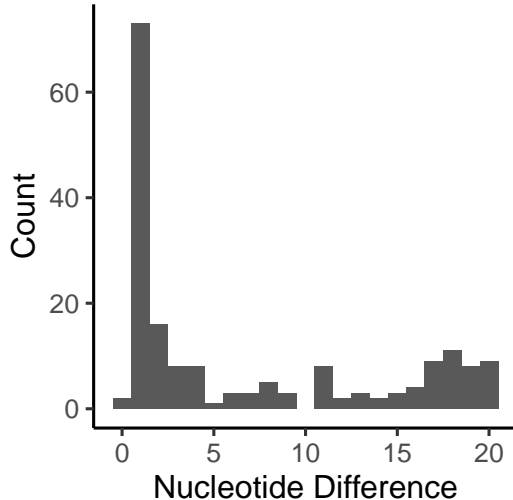
IGHV4–61*02

514 sequences assigned
148 (28.8%) exact matches, in which:
146 unique CDR3
6 unique J

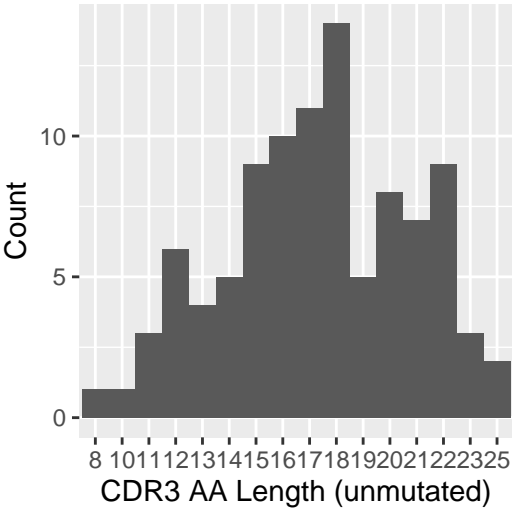


IGHV5–51*01

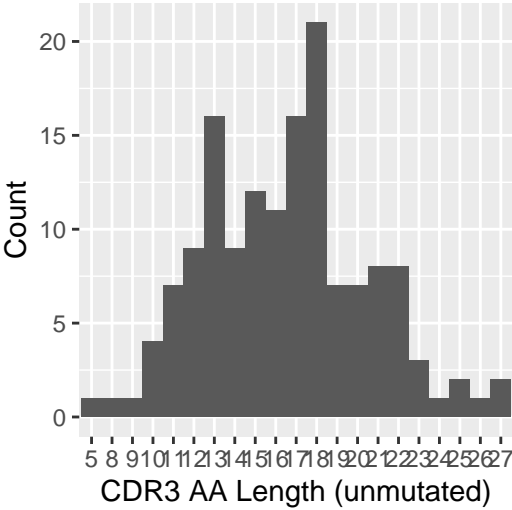
232 sequences assigned
2 (0.9%) exact matches, in which:
2 unique CDR3
2 unique J



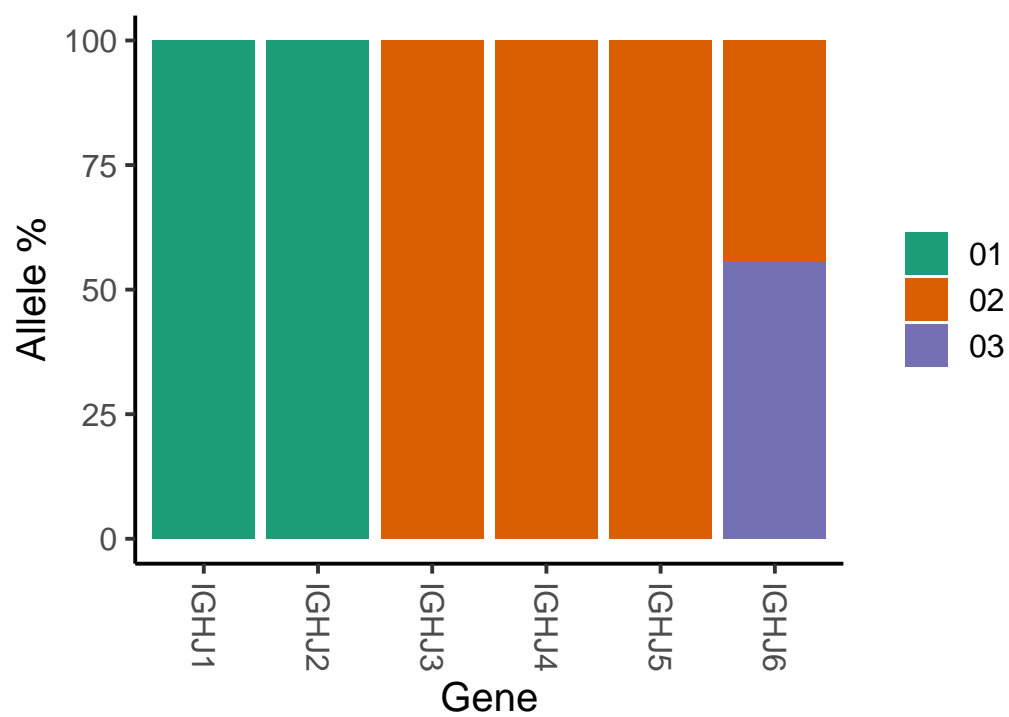
IGHV4-61*02_A234G



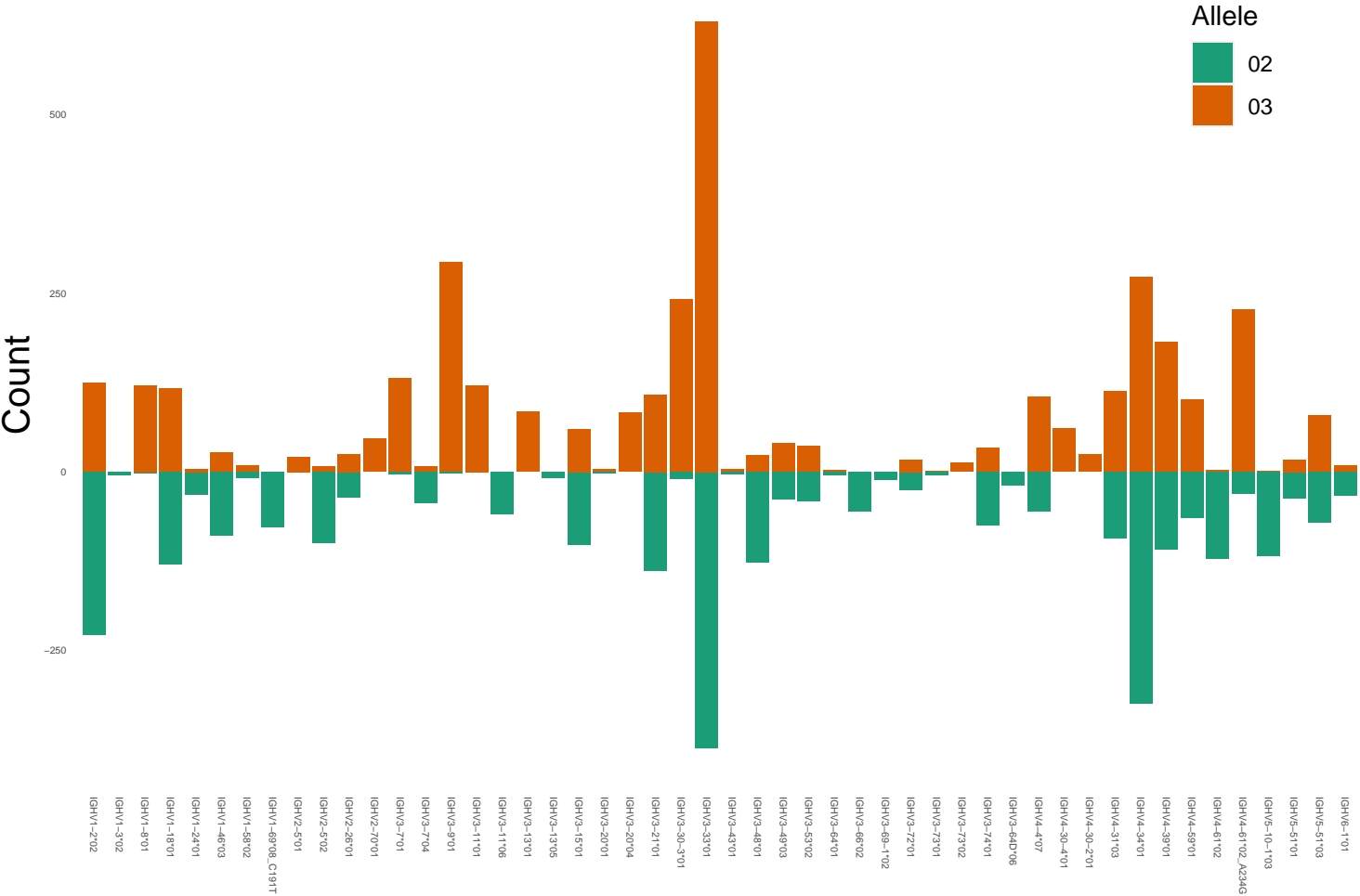
IGHV1-69*08_C191T



Allele Usage



Sequence Count by IGHJ6 allele usage



Warning – no inferred sequences found.

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