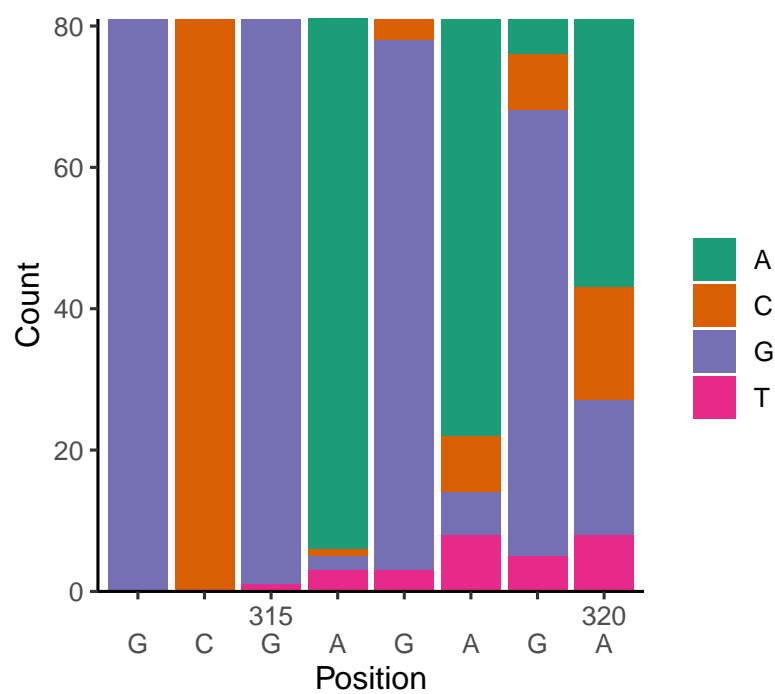
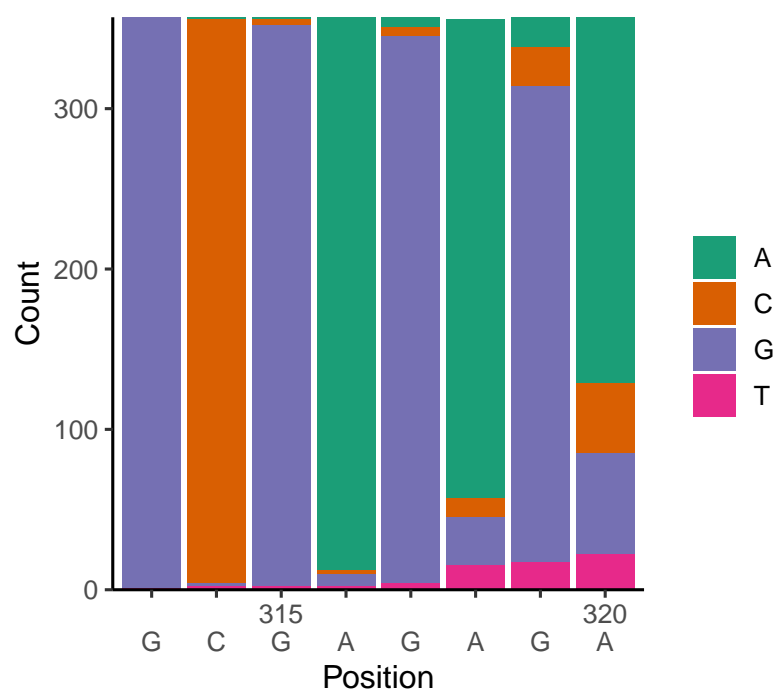


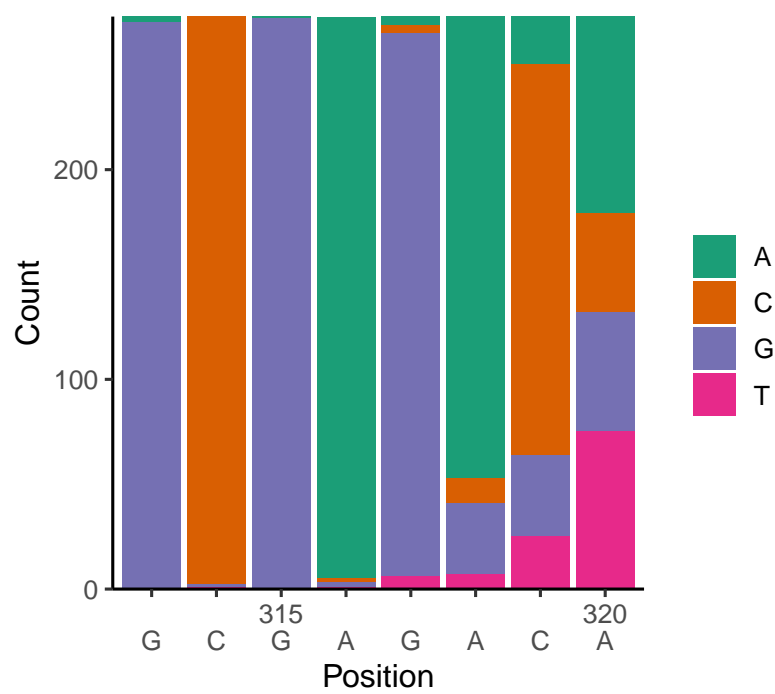
Gene IGHV1-69*08_C191T



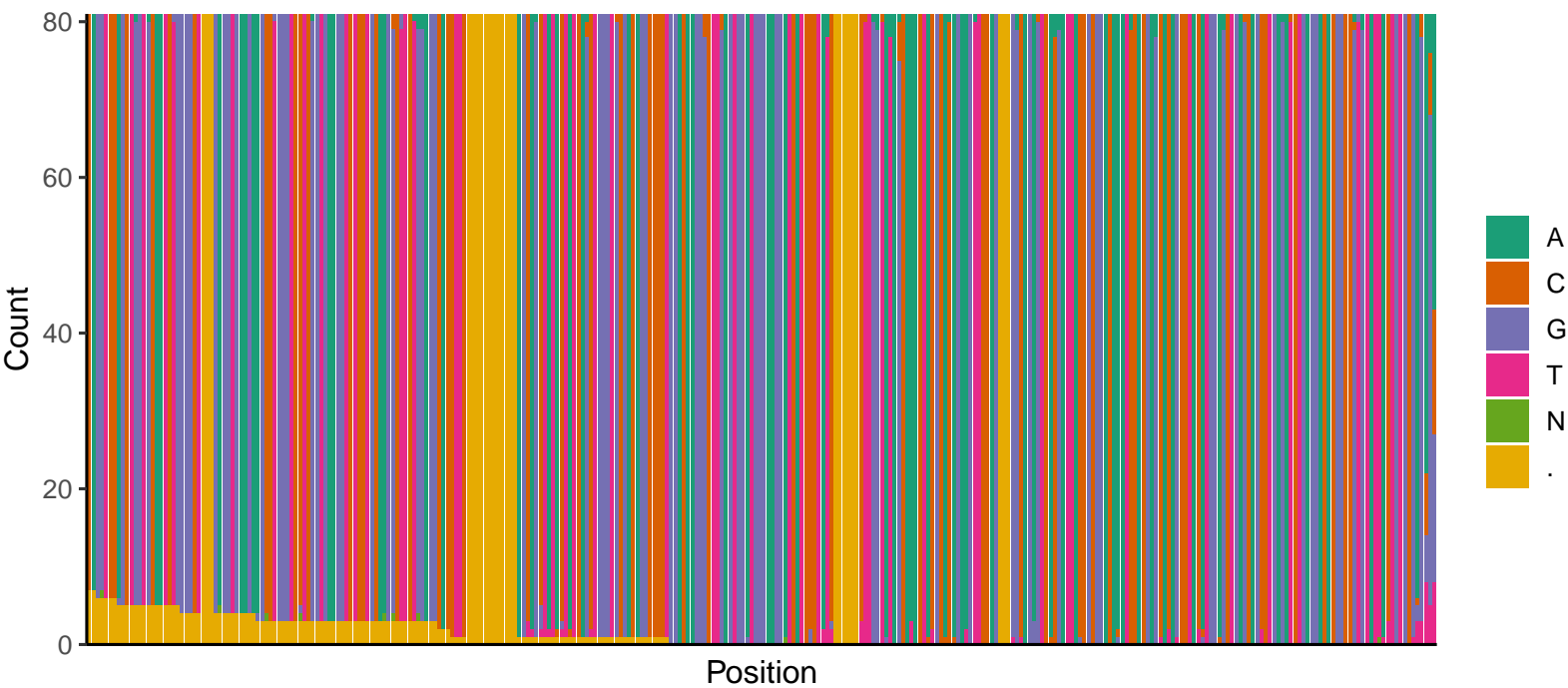
Gene IGHV3-30*19_T189C



Gene IGHV5-51*01_C45G



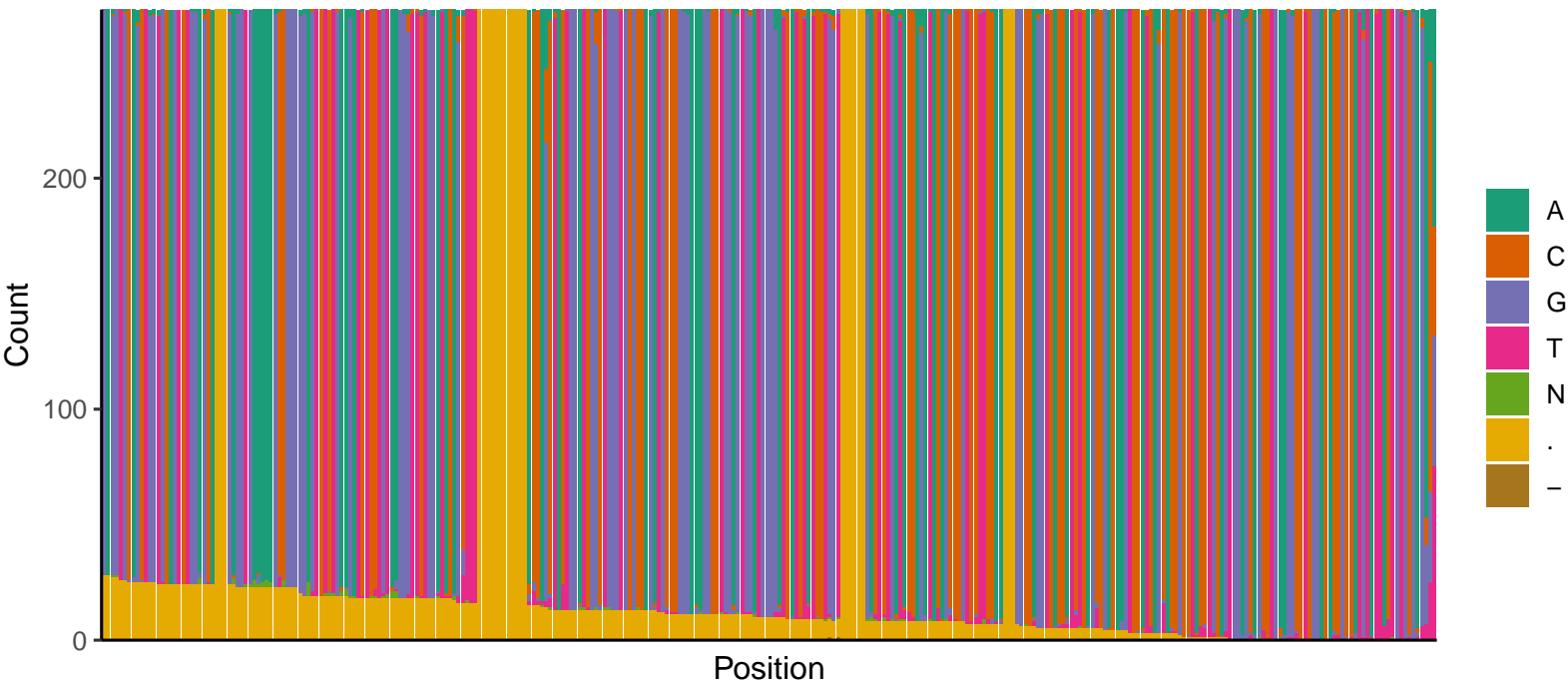
Gene IGHV1-69*08_C191T



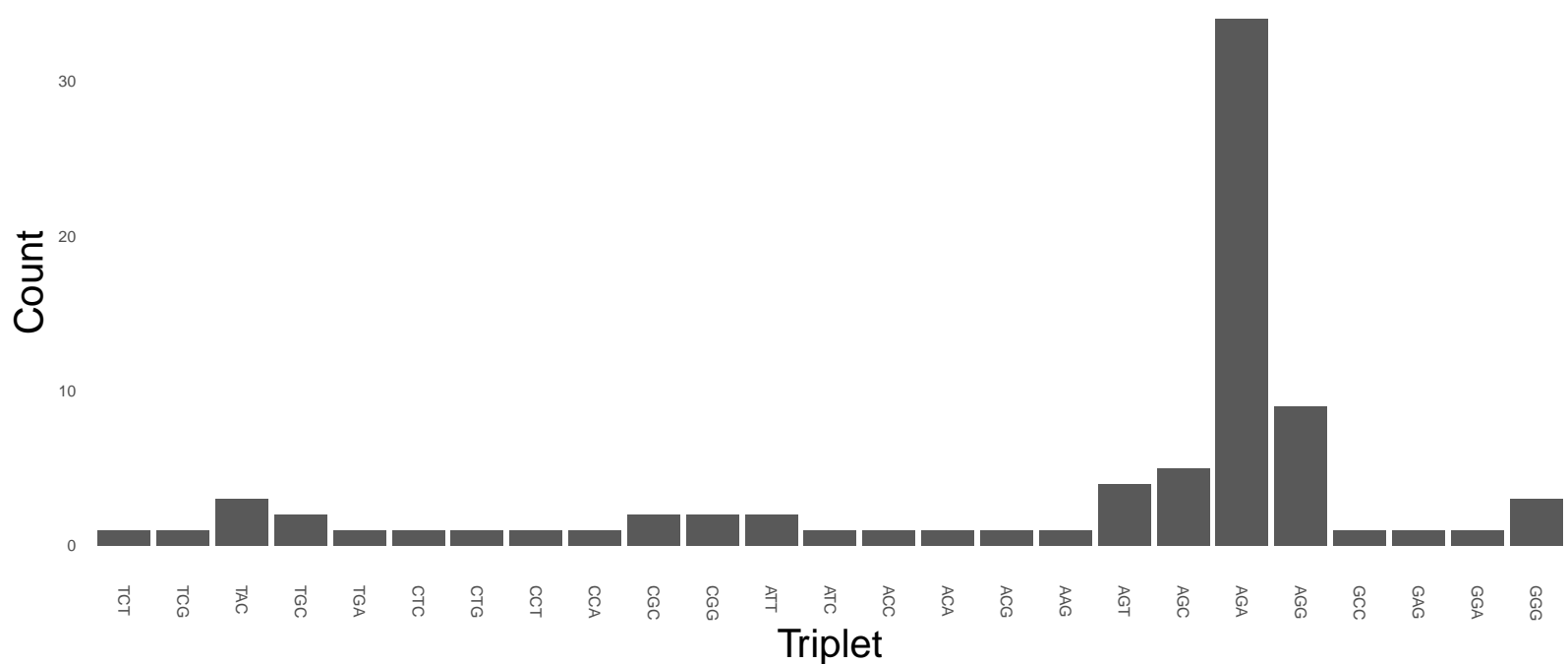
Gene IGHV3-30*19_T189C



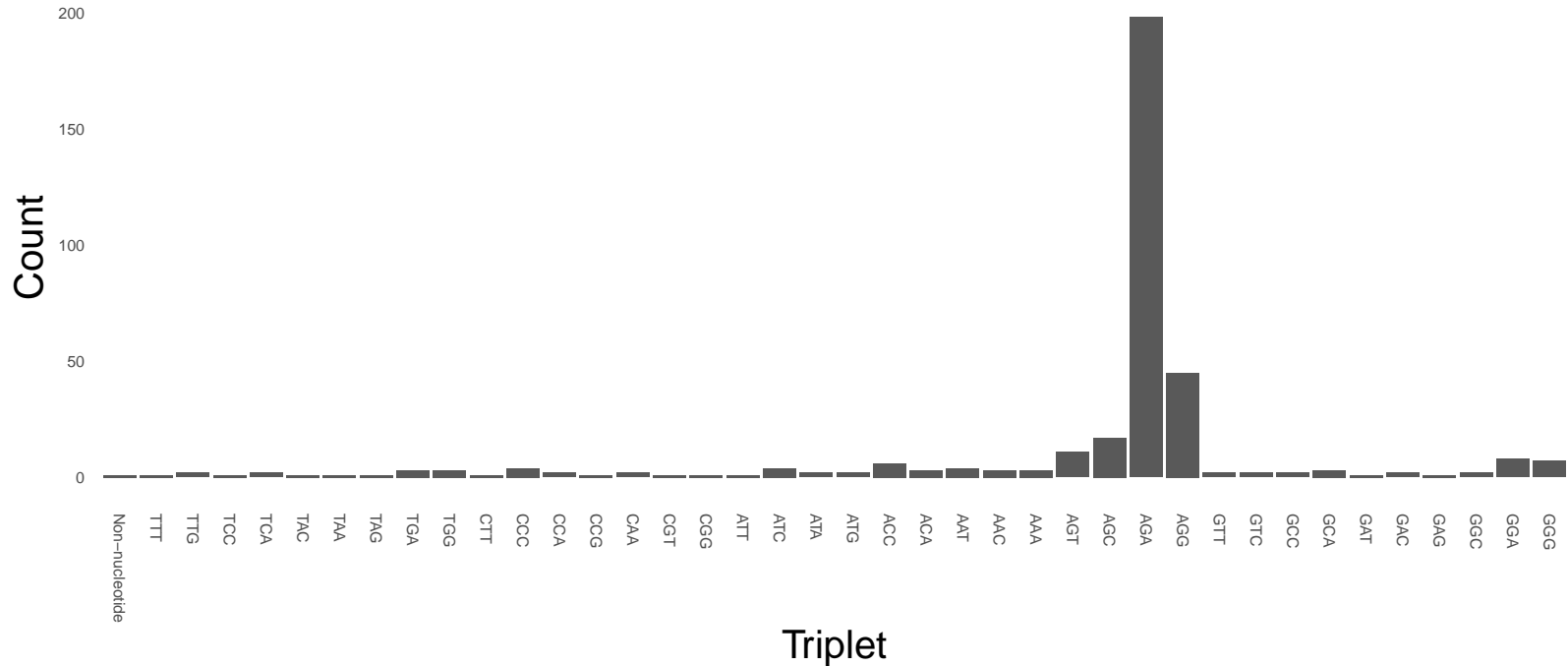
Gene IGHV5-51*01_C45G



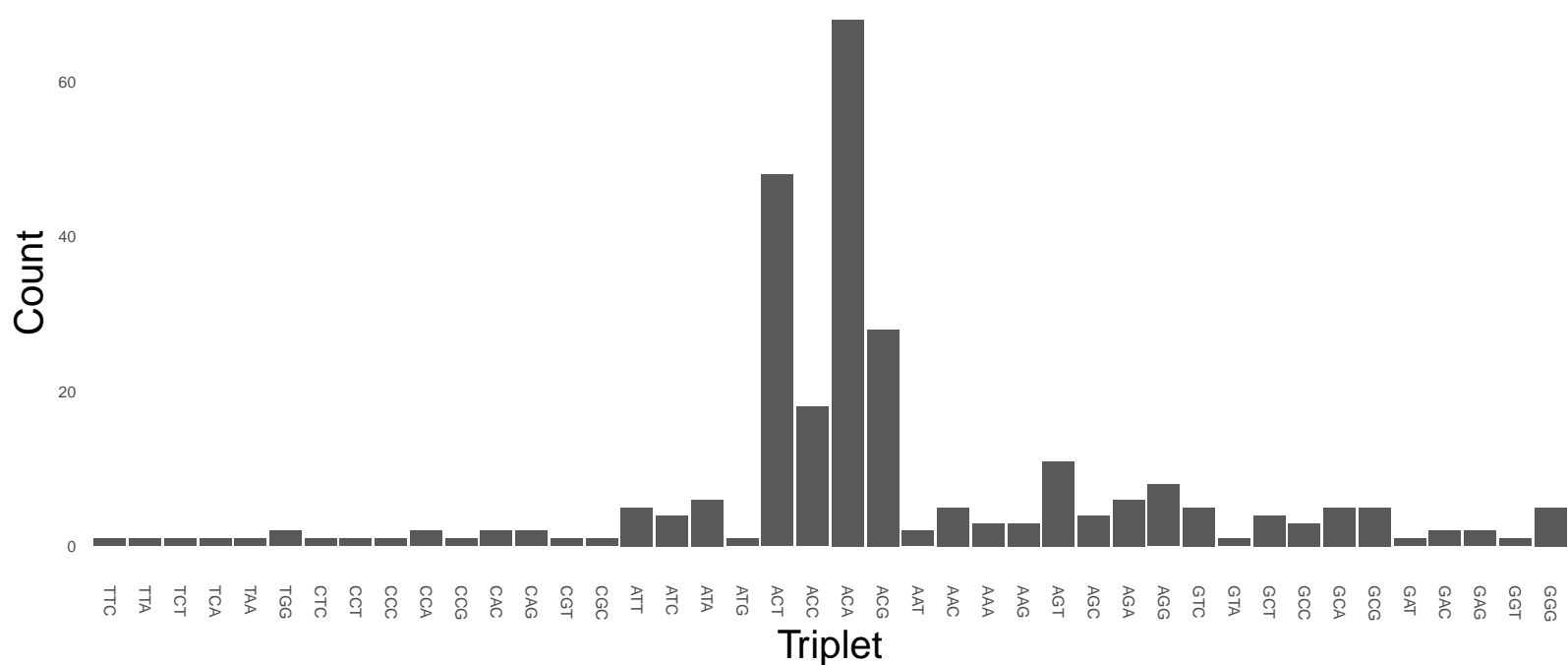
IGHV1-69*08_C191T- Final 3 nucleotides as a triplet



IGHV3-30*19_T189C- Final 3 nucleotides as a triplet

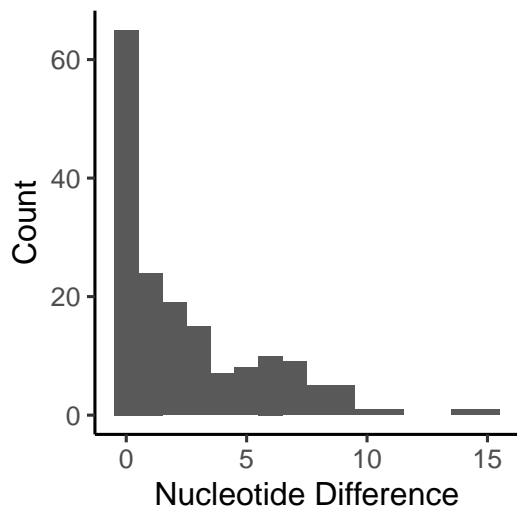


IGHV5-51*01_C45G- Final 3 nucleotides as a triplet



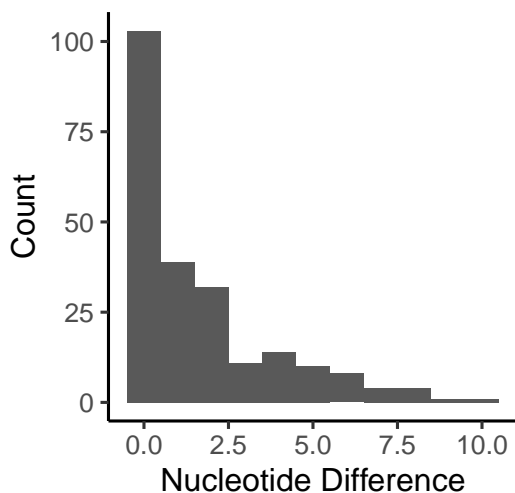
IGHV1-2*02

171 sequences assigned
65 (38%) exact matches, in which:
65 unique CDR3
4 unique J



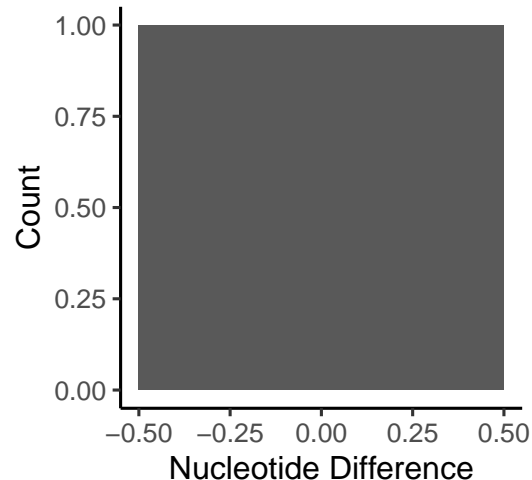
IGHV1-8*01

227 sequences assigned
103 (45.4%) exact matches, in which:
102 unique CDR3
7 unique J



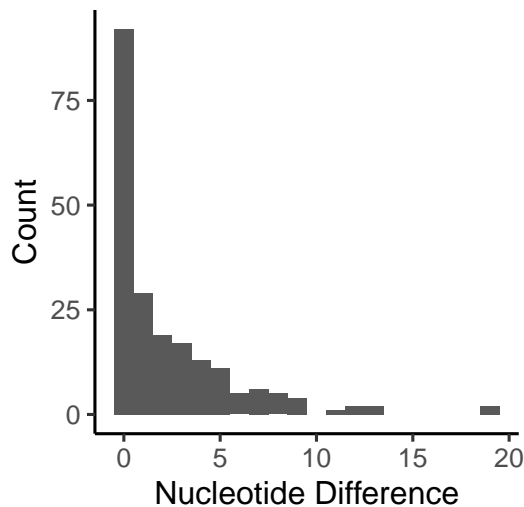
IGHV1-45*02

1 sequences assigned
1 (100%) exact matches, in which:
1 unique CDR3
1 unique J



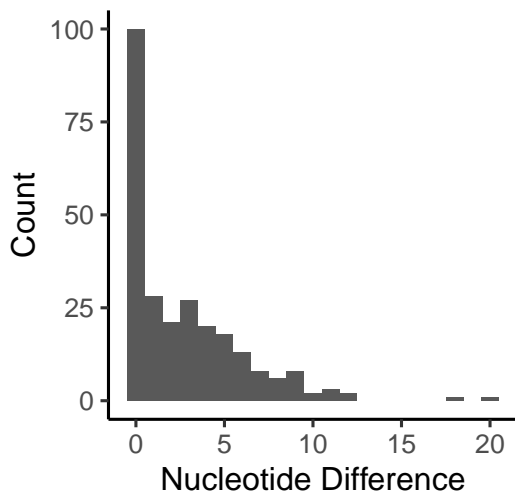
IGHV1-2*06

208 sequences assigned
92 (44.2%) exact matches, in which:
92 unique CDR3
6 unique J



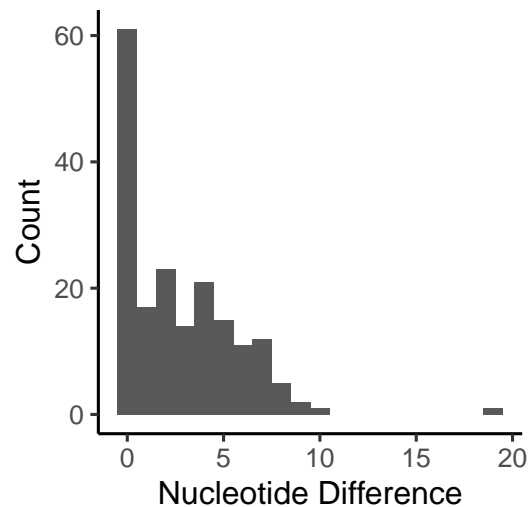
IGHV1-18*01

258 sequences assigned
100 (38.8%) exact matches, in which:
99 unique CDR3
7 unique J



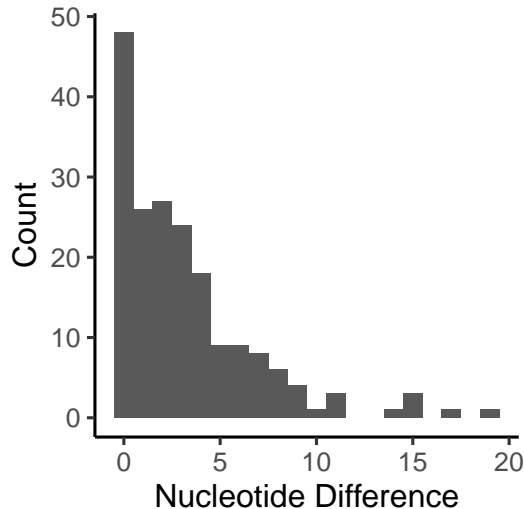
IGHV1-46*01

185 sequences assigned
61 (33%) exact matches, in which:
60 unique CDR3
5 unique J



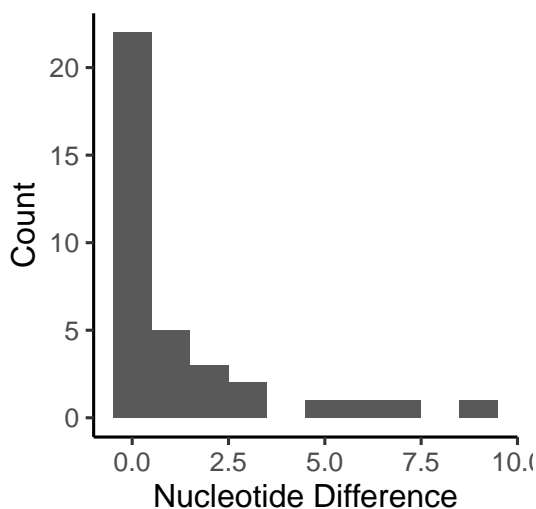
IGHV1-3*01

189 sequences assigned
48 (25.4%) exact matches, in which:
48 unique CDR3
5 unique J



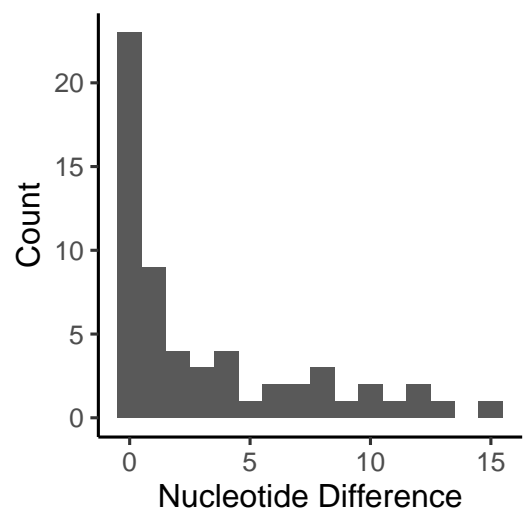
IGHV1-24*01

36 sequences assigned
22 (61.1%) exact matches, in which:
22 unique CDR3
5 unique J



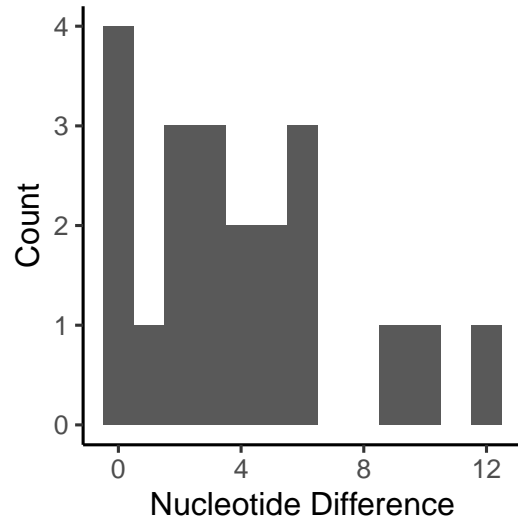
IGHV1-46*03

59 sequences assigned
23 (39%) exact matches, in which:
22 unique CDR3
5 unique J



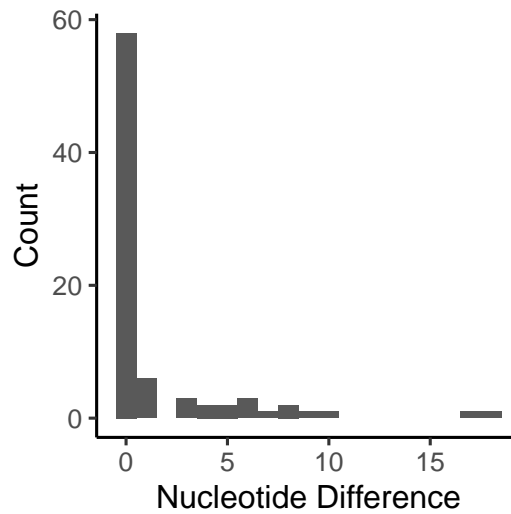
IGHV1-58*02

21 sequences assigned
4 (19%) exact matches, in which:
4 unique CDR3
3 unique J



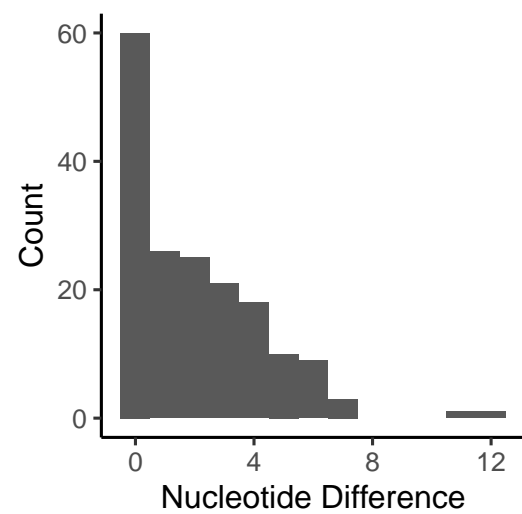
IGHV1-69*08_C191T

81 sequences assigned
58 (71.6%) exact matches, in which:
58 unique CDR3
6 unique J



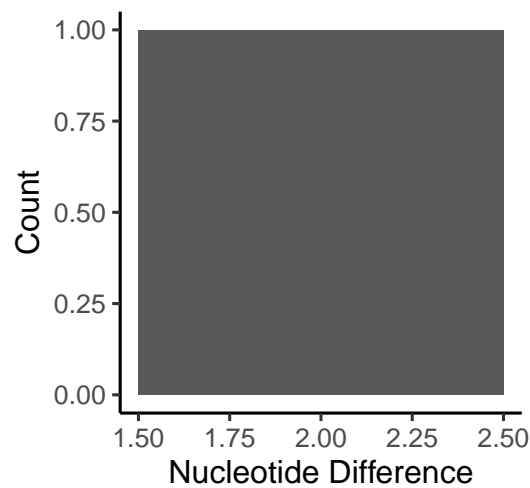
IGHV2-5*02

174 sequences assigned
60 (34.5%) exact matches, in which:
60 unique CDR3
6 unique J



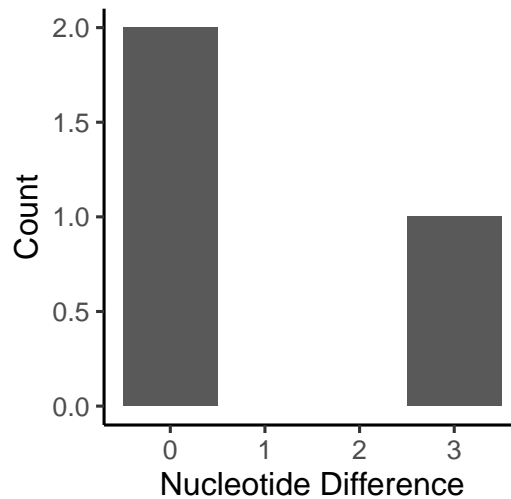
IGHV1-68*02

1 sequences assigned
No exact matches.



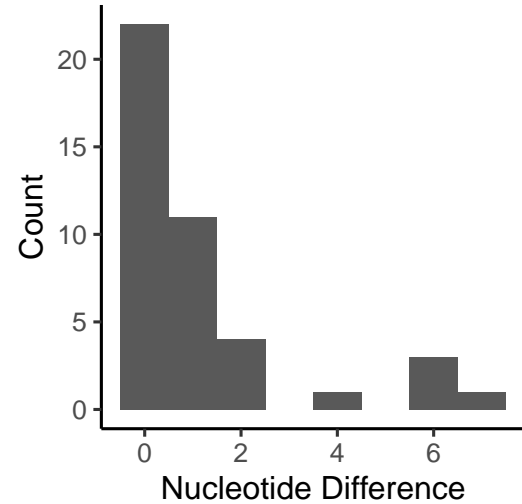
IGHV1-69D*01

3 sequences assigned
2 (66.7%) exact matches, in which:
2 unique CDR3
2 unique J



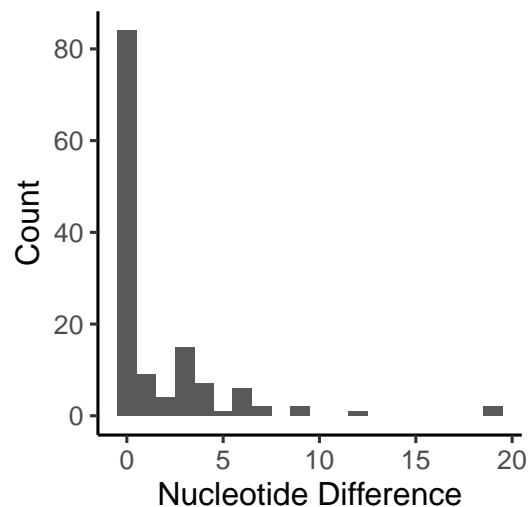
IGHV2-26*01

42 sequences assigned
22 (52.4%) exact matches, in which:
21 unique CDR3
5 unique J



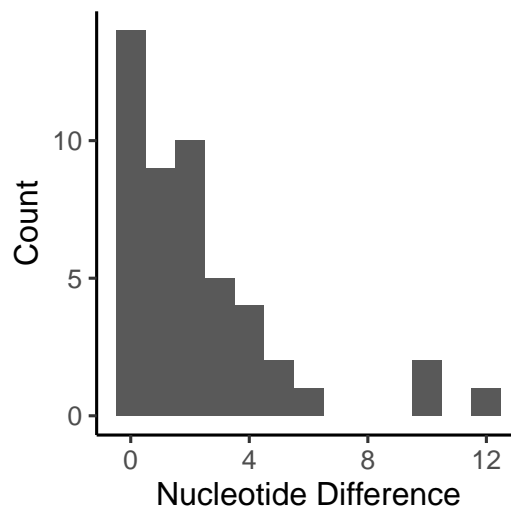
IGHV1-69*10

135 sequences assigned
84 (62.2%) exact matches, in which:
84 unique CDR3
6 unique J



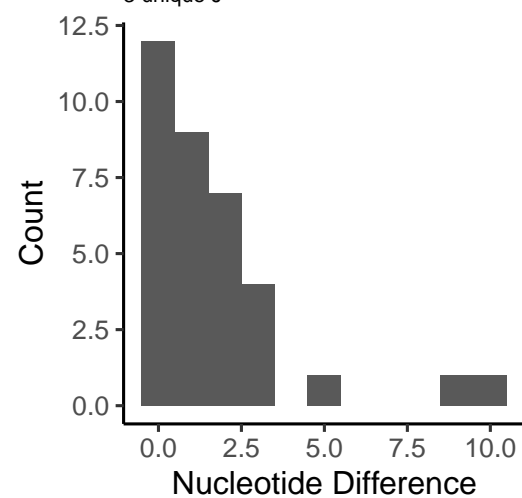
IGHV2-5*01

48 sequences assigned
14 (29.2%) exact matches, in which:
14 unique CDR3
5 unique J



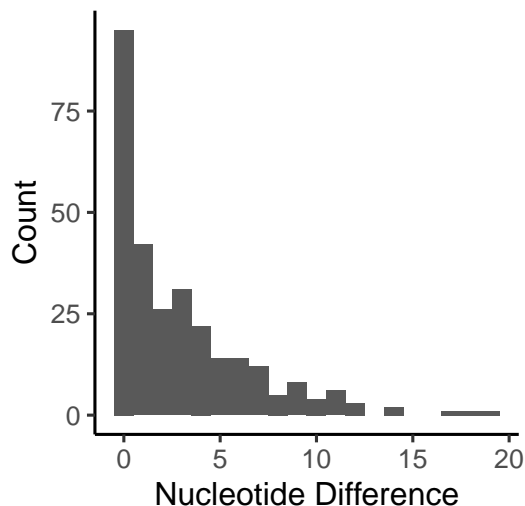
IGHV2-70*15

35 sequences assigned
12 (34.3%) exact matches, in which:
12 unique CDR3
3 unique J



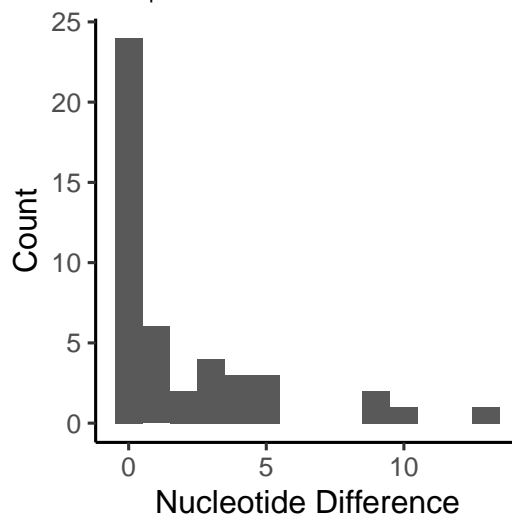
IGHV3-7*01

288 sequences assigned
95 (33%) exact matches, in which:
95 unique CDR3
7 unique J



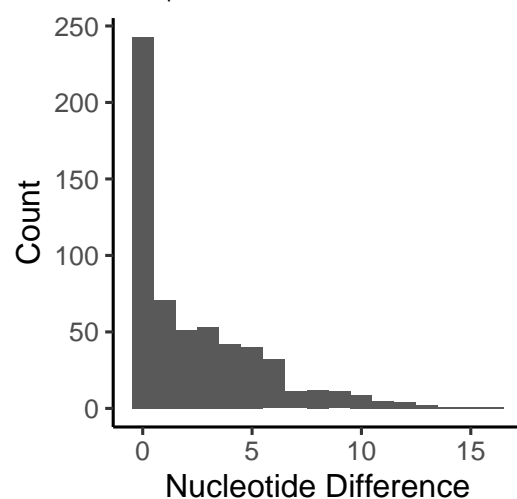
IGHV3-13*01

46 sequences assigned
24 (52.2%) exact matches, in which:
24 unique CDR3
5 unique J



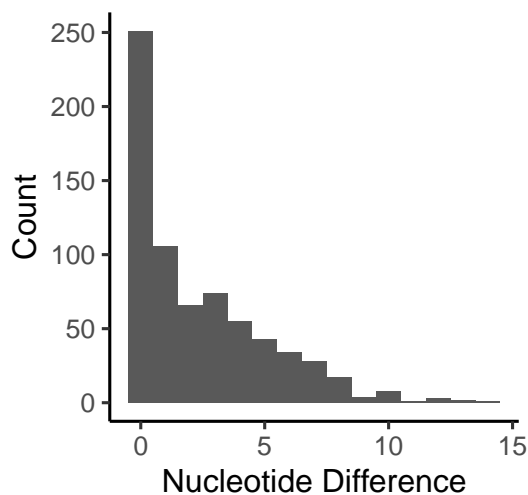
IGHV3-21*01

590 sequences assigned
243 (41.2%) exact matches, in which:
242 unique CDR3
7 unique J



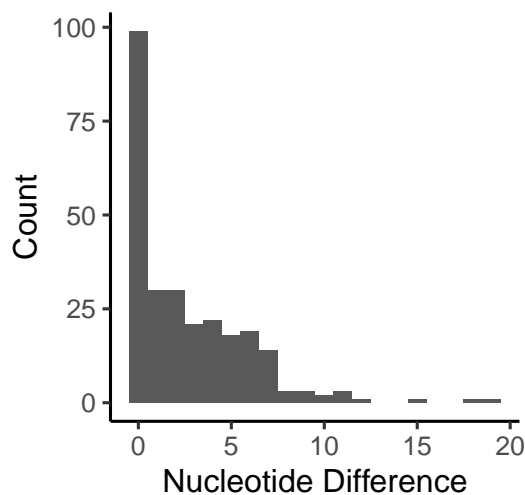
IGHV3-9*01

693 sequences assigned
251 (36.2%) exact matches, in which:
248 unique CDR3
7 unique J



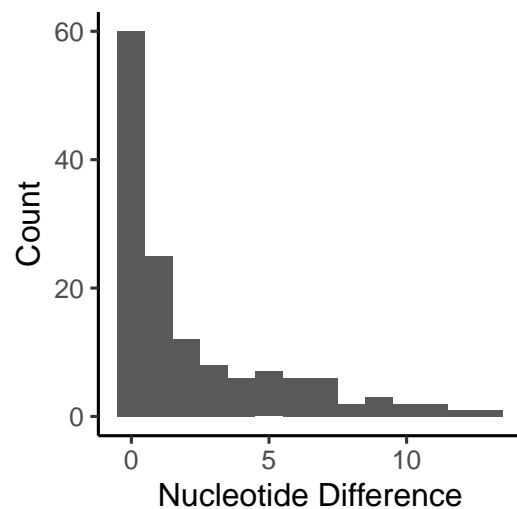
IGHV3-15*01

269 sequences assigned
99 (36.8%) exact matches, in which:
97 unique CDR3
7 unique J



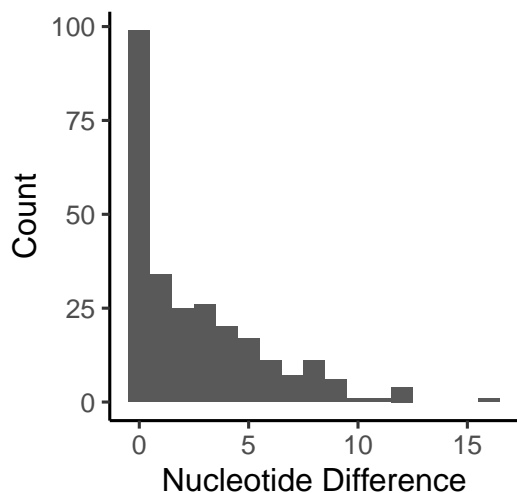
IGHV3-30-3*01

141 sequences assigned
60 (42.6%) exact matches, in which:
59 unique CDR3
5 unique J



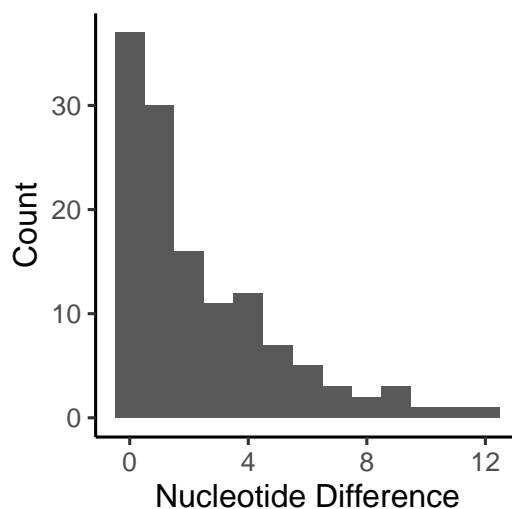
IGHV3-11*01

263 sequences assigned
99 (37.6%) exact matches, in which:
99 unique CDR3
7 unique J



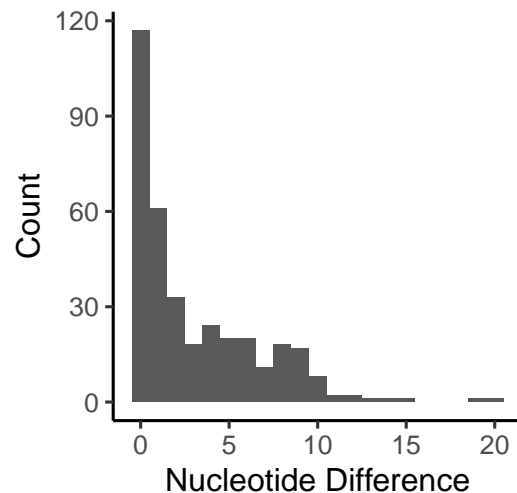
IGHV3-20*01

129 sequences assigned
37 (28.7%) exact matches, in which:
33 unique CDR3
6 unique J



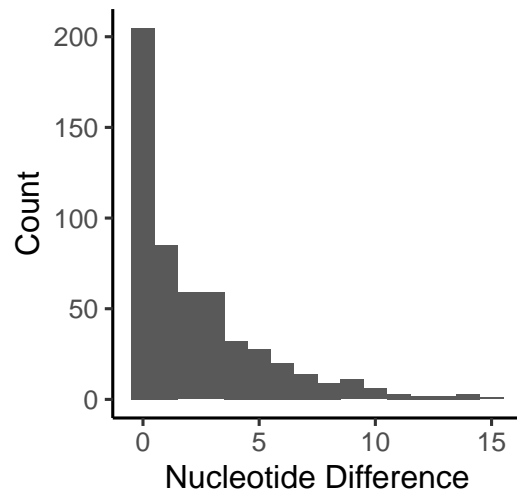
IGHV3-30*19_T189C

357 sequences assigned
117 (32.8%) exact matches, in which:
116 unique CDR3
5 unique J



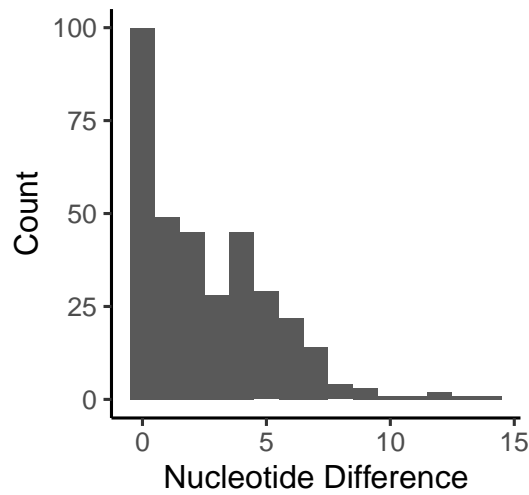
IGHV3-33*01

540 sequences assigned
205 (38%) exact matches, in which:
200 unique CDR3
7 unique J



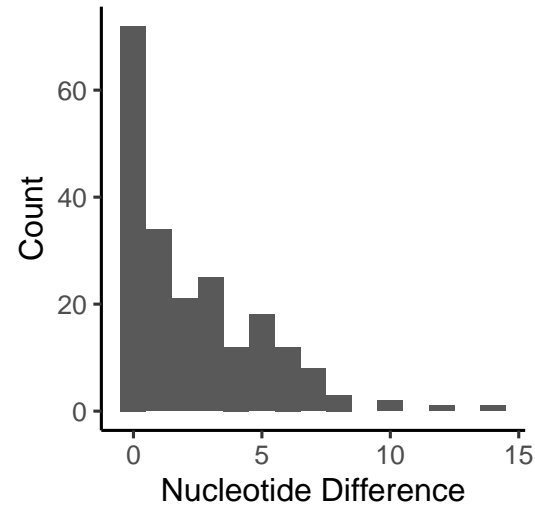
IGHV3-48*03

346 sequences assigned
100 (28.9%) exact matches, in which:
99 unique CDR3
5 unique J



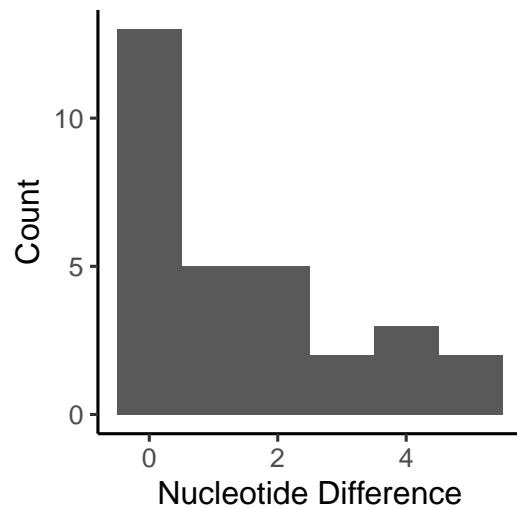
IGHV3-53*01

209 sequences assigned
72 (34.4%) exact matches, in which:
71 unique CDR3
7 unique J



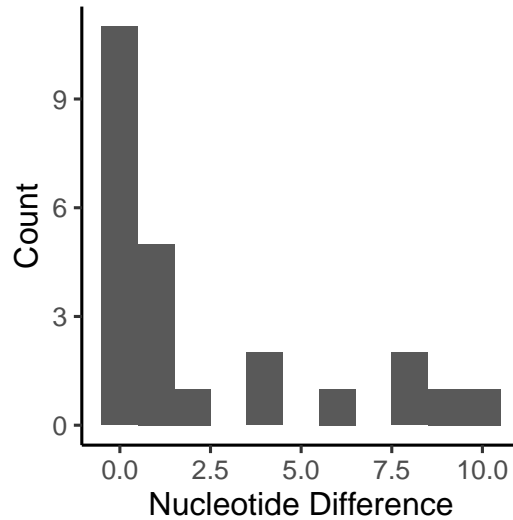
IGHV3-43*01

30 sequences assigned
13 (43.3%) exact matches, in which:
13 unique CDR3
4 unique J



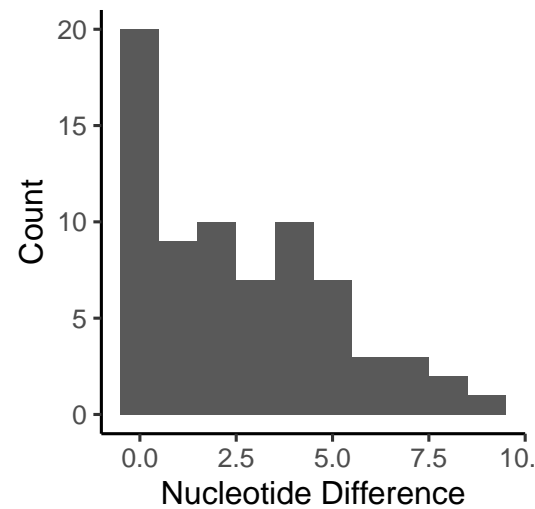
IGHV3-49*03

24 sequences assigned
11 (45.8%) exact matches, in which:
11 unique CDR3
2 unique J



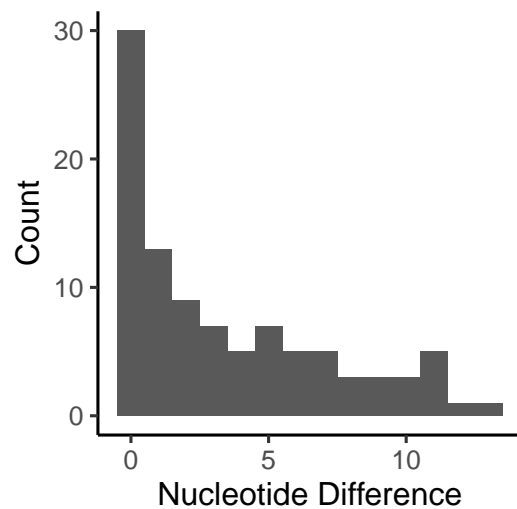
IGHV3-64*01

72 sequences assigned
20 (27.8%) exact matches, in which:
20 unique CDR3
7 unique J



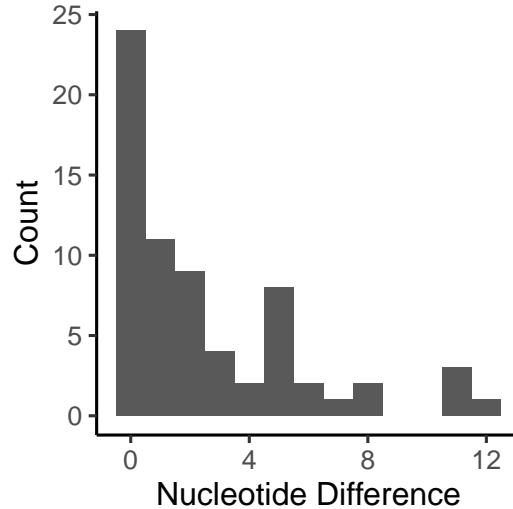
IGHV3-48*01

98 sequences assigned
30 (30.6%) exact matches, in which:
30 unique CDR3
6 unique J



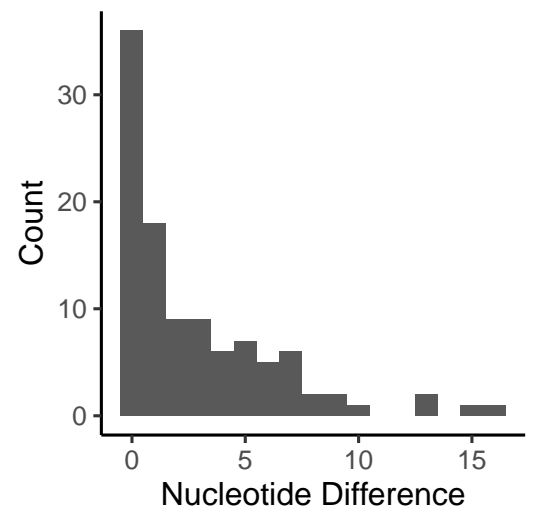
IGHV3-49*04

68 sequences assigned
24 (35.3%) exact matches, in which:
24 unique CDR3
4 unique J



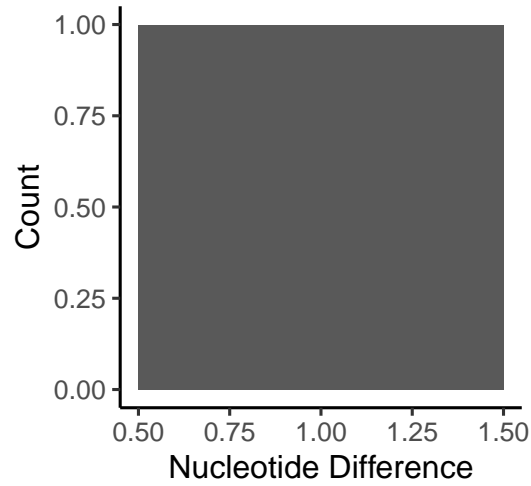
IGHV3-66*01

105 sequences assigned
36 (34.3%) exact matches, in which:
35 unique CDR3
5 unique J



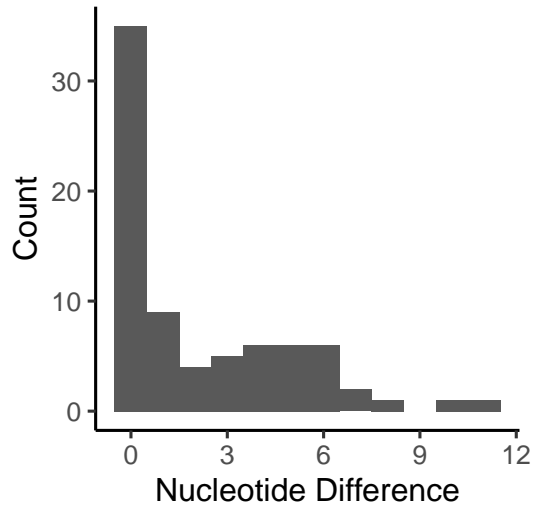
IGHV3-71*02

1 sequences assigned
No exact matches.



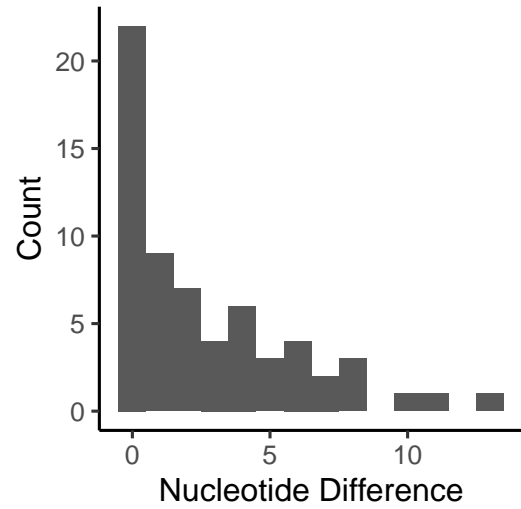
IGHV3-73*01

76 sequences assigned
35 (46.1%) exact matches, in which:
34 unique CDR3
5 unique J



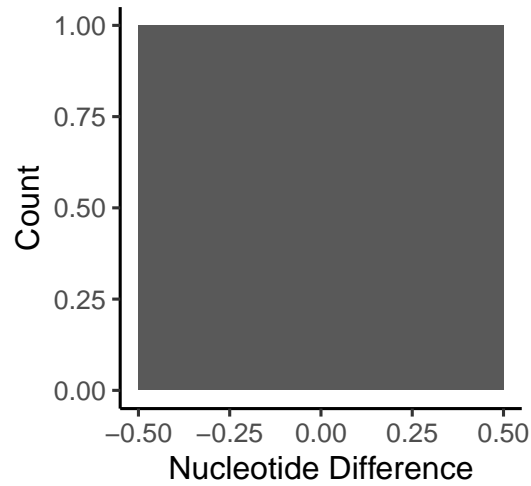
IGHV4-4*07

63 sequences assigned
22 (34.9%) exact matches, in which:
20 unique CDR3
4 unique J



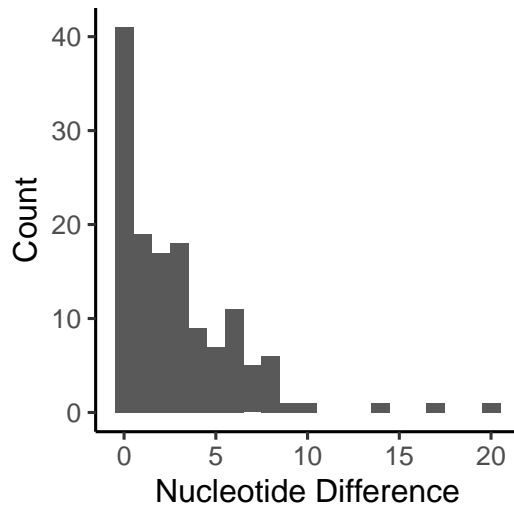
IGHV3-71*03

1 sequences assigned
1 (100%) exact matches, in which:
1 unique CDR3
1 unique J



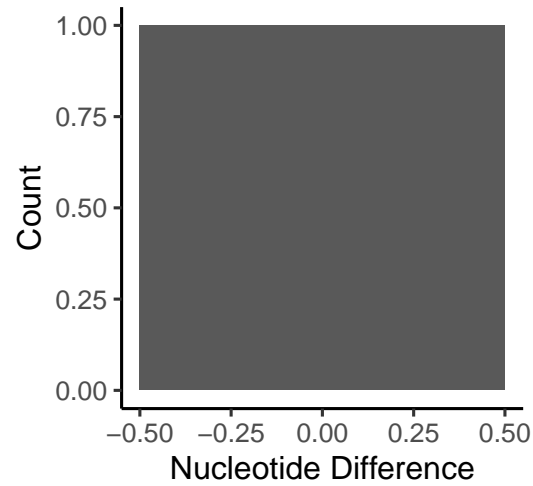
IGHV3-74*01

139 sequences assigned
41 (29.5%) exact matches, in which:
41 unique CDR3
6 unique J



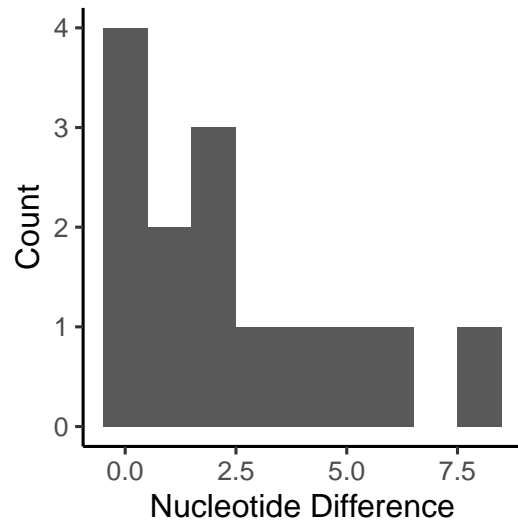
IGHV4-28*01

1 sequences assigned
1 (100%) exact matches, in which:
1 unique CDR3
1 unique J



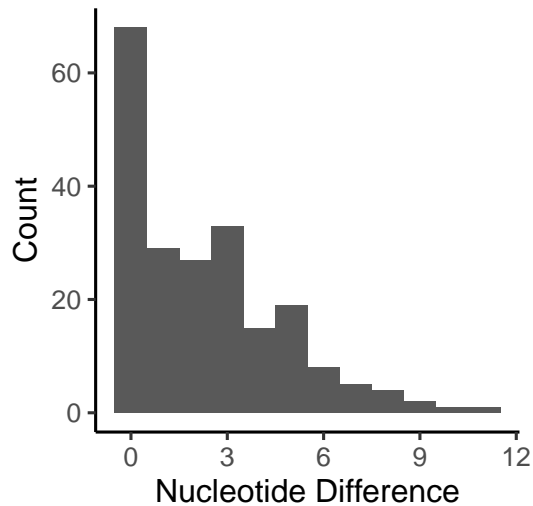
IGHV3-72*01

15 sequences assigned
4 (26.7%) exact matches, in which:
4 unique CDR3
2 unique J



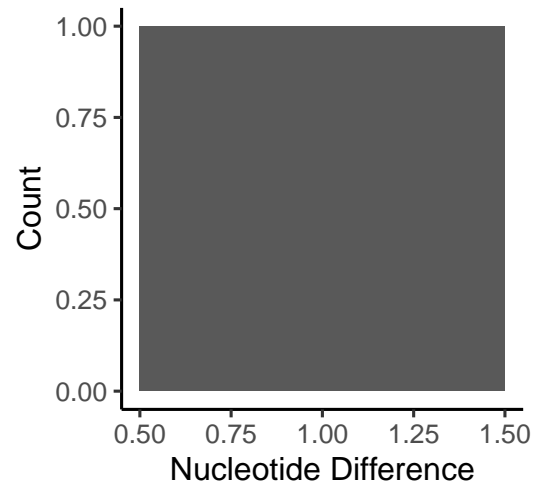
IGHV4-4*02

213 sequences assigned
68 (31.9%) exact matches, in which:
68 unique CDR3
5 unique J



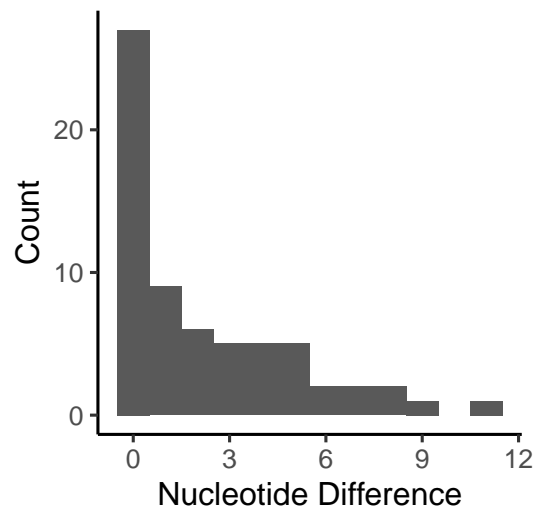
IGHV4-28*03

1 sequences assigned
No exact matches.



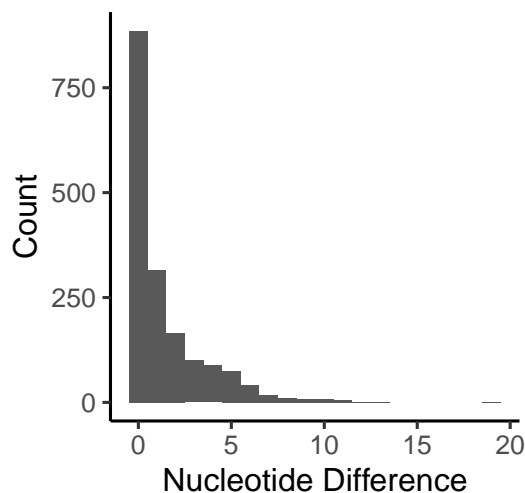
IGHV4-30-2*01

65 sequences assigned
27 (41.5%) exact matches, in which:
26 unique CDR3
5 unique J



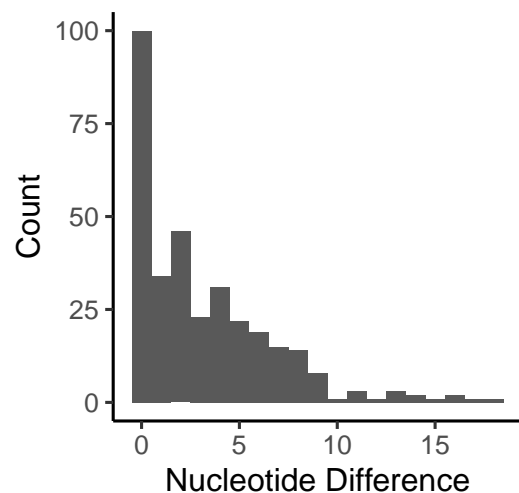
IGHV4-34*01

1733 sequences assigned
886 (51.1%) exact matches, in which:
850 unique CDR3
7 unique J



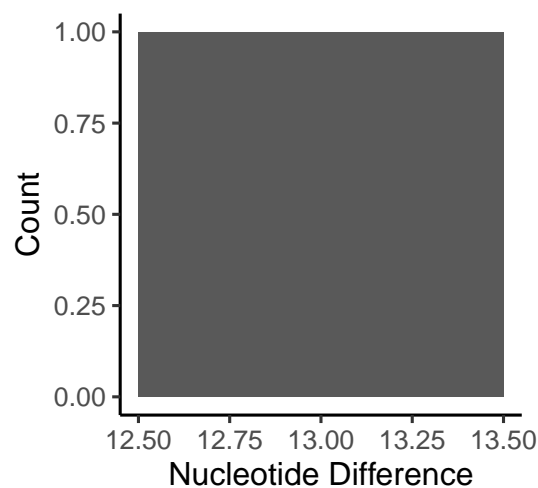
IGHV4-59*08

328 sequences assigned
100 (30.5%) exact matches, in which:
98 unique CDR3
6 unique J



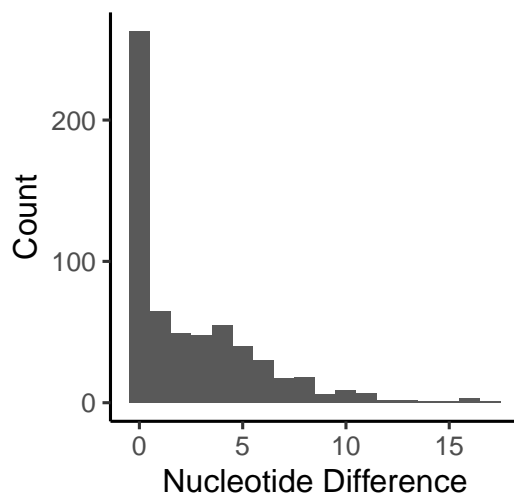
IGHV4-30-4*05

1 sequences assigned
No exact matches.



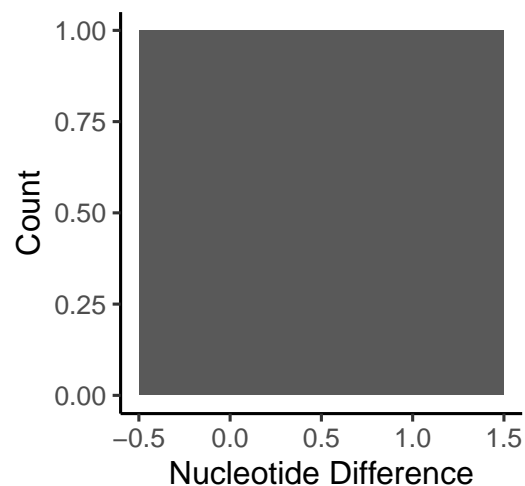
IGHV4-39*01

620 sequences assigned
263 (42.4%) exact matches, in which:
258 unique CDR3
7 unique J



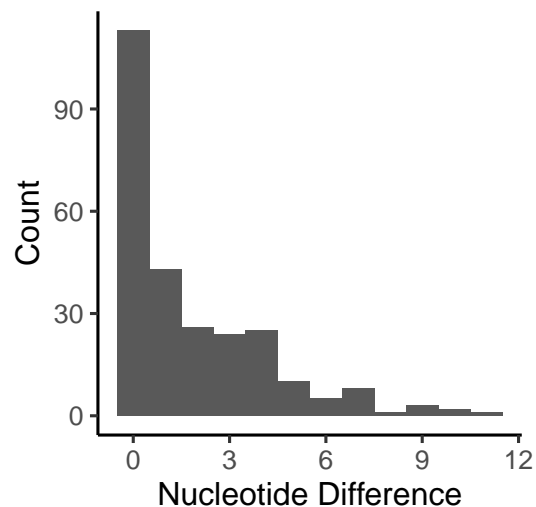
IGHV4-61*07

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



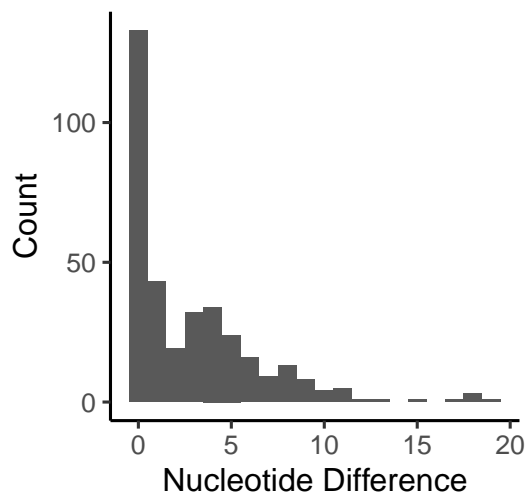
IGHV4-31*03

262 sequences assigned
113 (43.1%) exact matches, in which:
112 unique CDR3
7 unique J



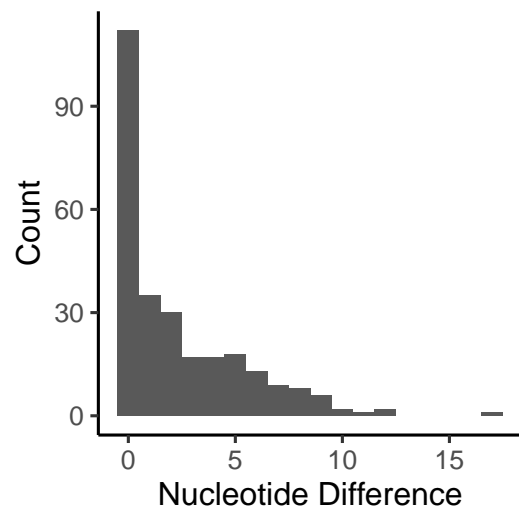
IGHV4-59*01

348 sequences assigned
133 (38.2%) exact matches, in which:
132 unique CDR3
7 unique J



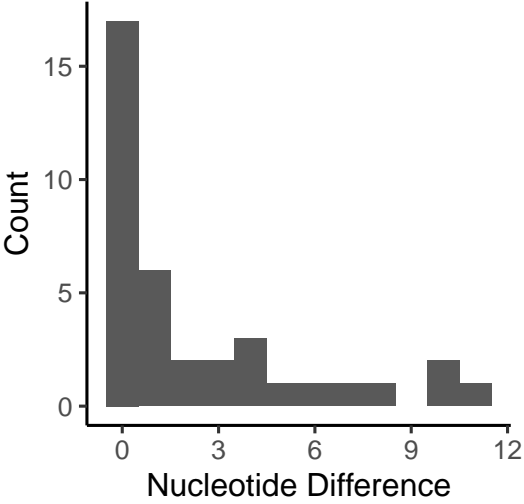
IGHV5-51*01_C45G

273 sequences assigned
112 (41%) exact matches, in which:
112 unique CDR3
6 unique J



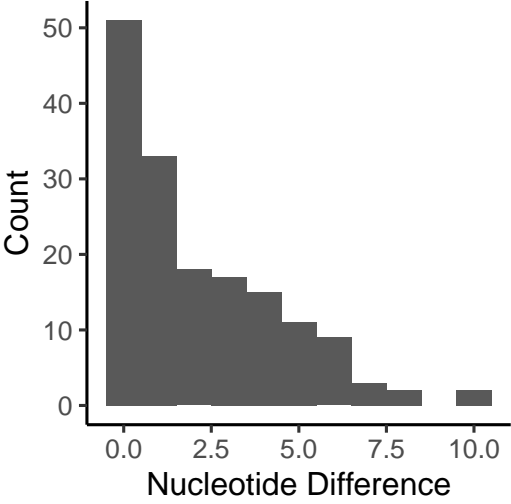
IGHV6-1*01

37 sequences assigned
17 (45.9%) exact matches, in which:
17 unique CDR3
6 unique J

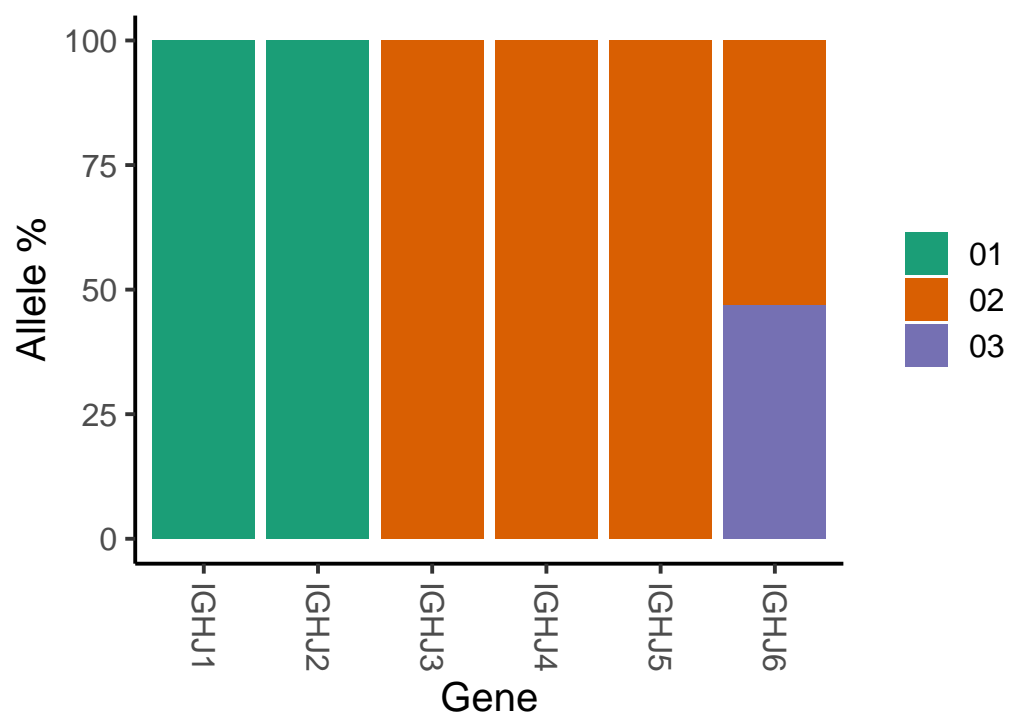


IGHV7-4-1*02

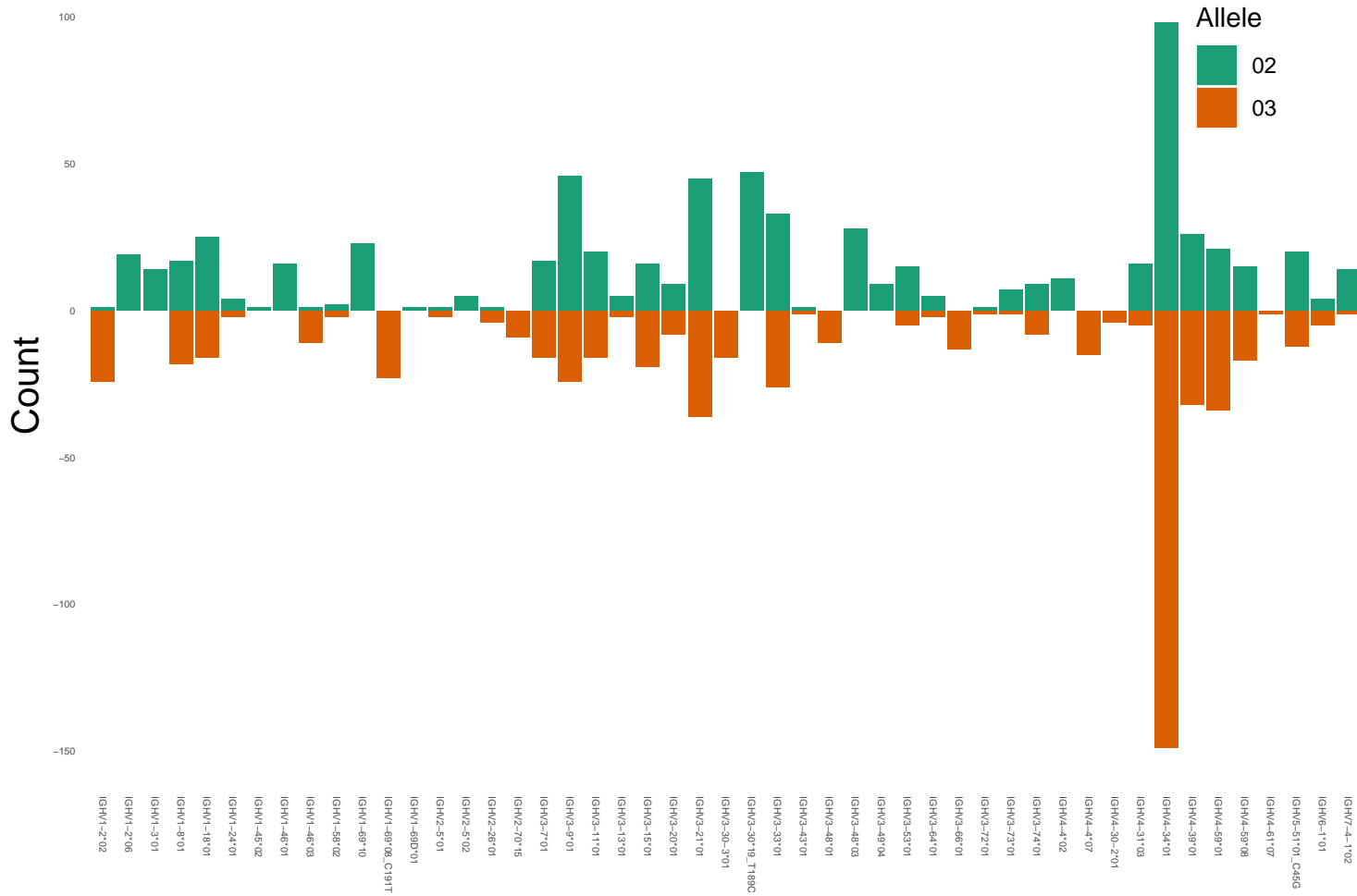
161 sequences assigned
51 (31.7%) exact matches, in which:
50 unique CDR3
6 unique J



Allele Usage



Sequence Count by IGHJ6 allele usage



Warning – no inferred sequences found.

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