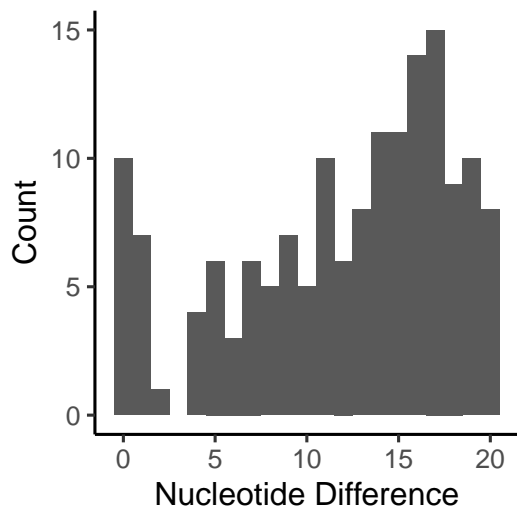


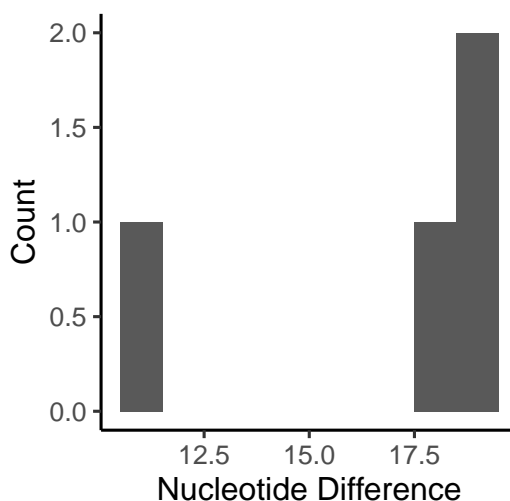
IGHV1-2*02

373 sequences assigned
10 (2.7%) exact matches, in which:
10 unique CDR3
4 unique J



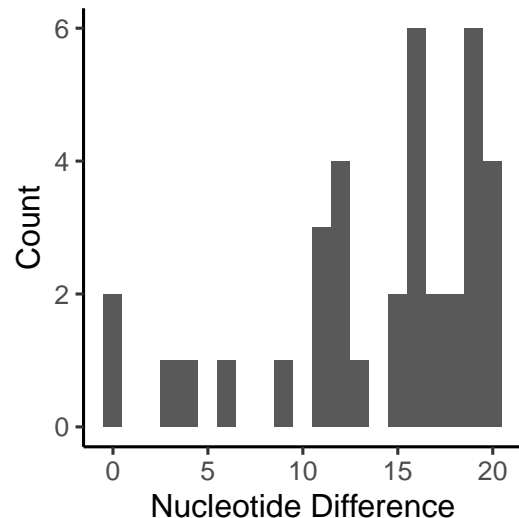
IGHV1-8*02

5 sequences assigned
No exact matches.



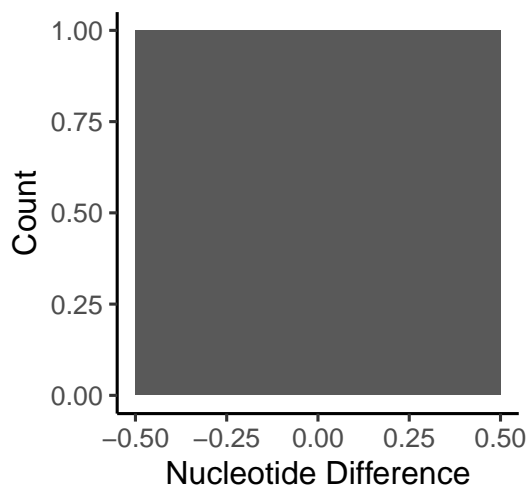
IGHV1-46*01

94 sequences assigned
2 (2.1%) exact matches, in which:
2 unique CDR3
1 unique J



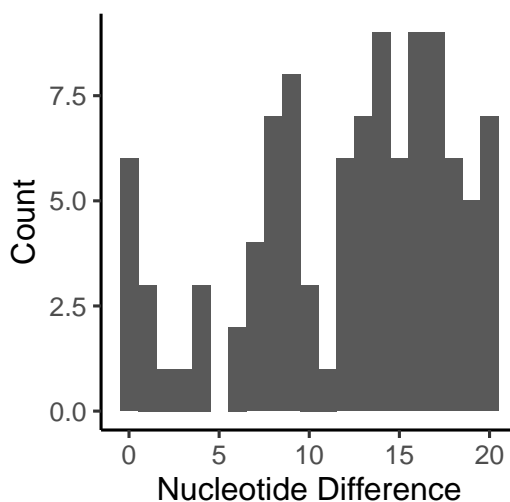
IGHV1-3*01

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



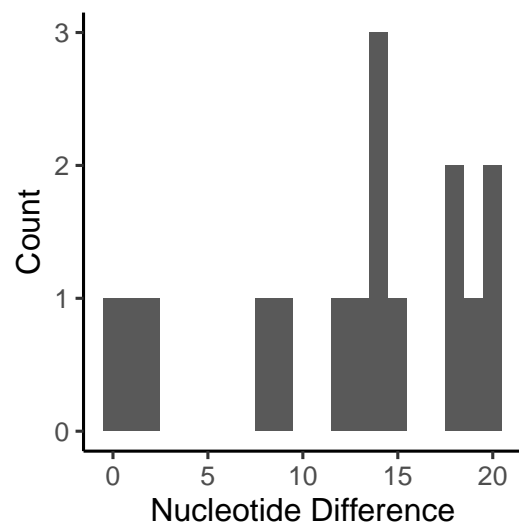
IGHV1-18*01

235 sequences assigned
6 (2.6%) exact matches, in which:
6 unique CDR3
4 unique J



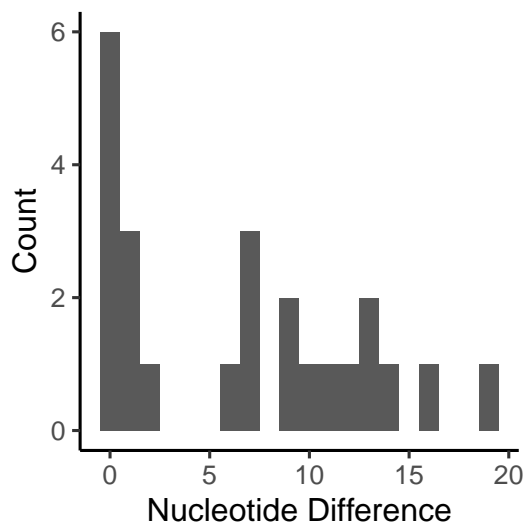
IGHV1-46*03

31 sequences assigned
1 (3.2%) exact matches, in which:
1 unique CDR3
1 unique J



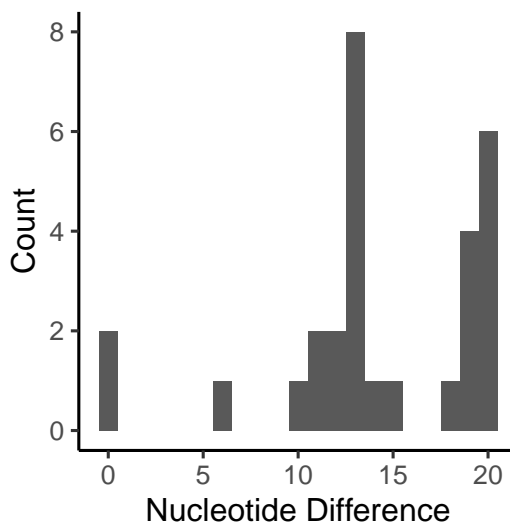
IGHV1-8*01

43 sequences assigned
6 (14%) exact matches, in which:
6 unique CDR3
3 unique J



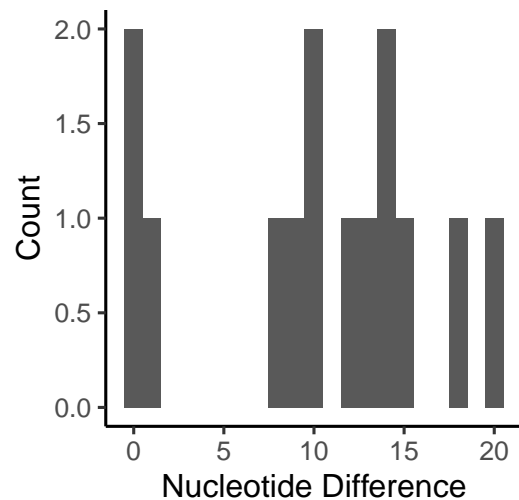
IGHV1-24*01

43 sequences assigned
2 (4.7%) exact matches, in which:
2 unique CDR3
1 unique J



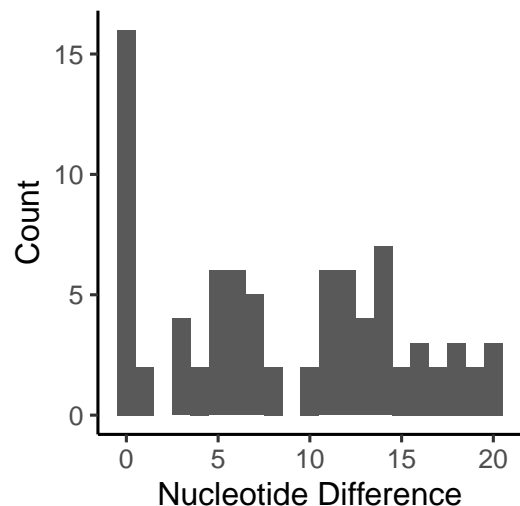
IGHV1-58*01

16 sequences assigned
2 (12.5%) exact matches, in which:
2 unique CDR3
2 unique J



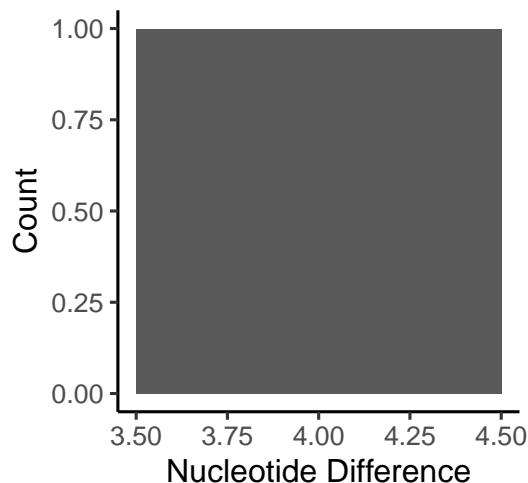
IGHV2-5*01

209 sequences assigned
16 (7.7%) exact matches, in which:
16 unique CDR3
4 unique J



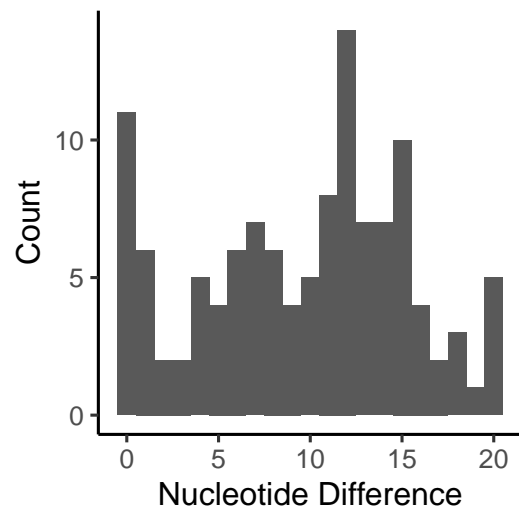
IGHV2-70*13

10 sequences assigned
No exact matches.



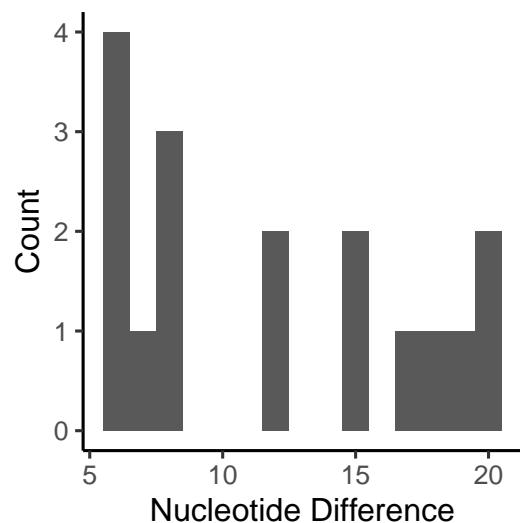
IGHV3-11*01

265 sequences assigned
11 (4.2%) exact matches, in which:
11 unique CDR3
4 unique J



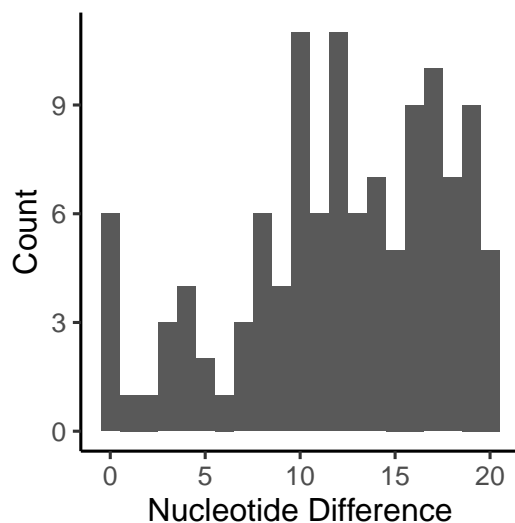
IGHV2-26*01

45 sequences assigned
No exact matches.



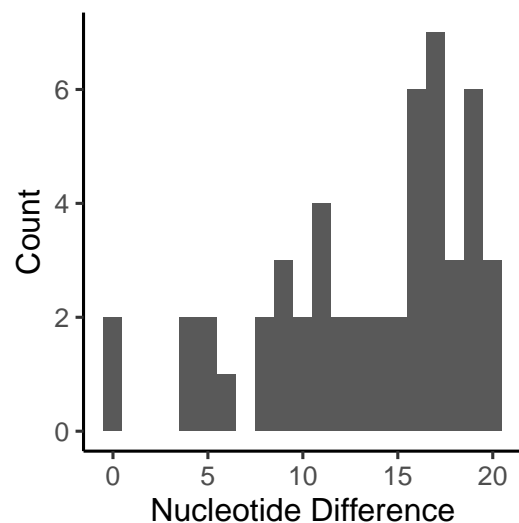
IGHV3-7*01

180 sequences assigned
6 (3.3%) exact matches, in which:
6 unique CDR3
4 unique J



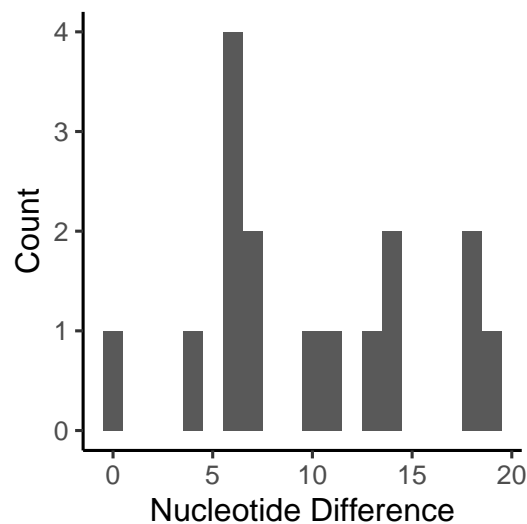
IGHV3-13*01

63 sequences assigned
2 (3.2%) exact matches, in which:
2 unique CDR3
2 unique J



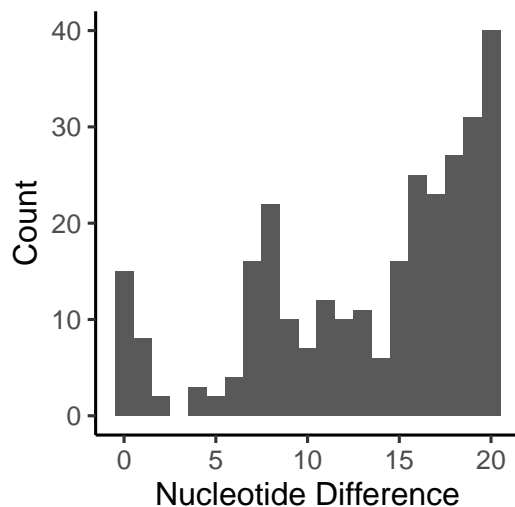
IGHV2-70*01

28 sequences assigned
1 (3.6%) exact matches, in which:
1 unique CDR3
1 unique J



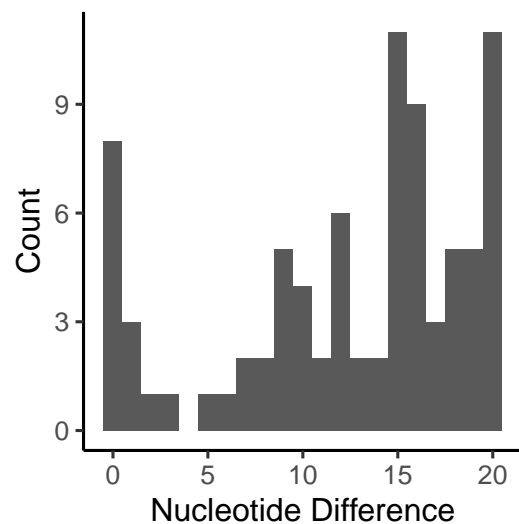
IGHV3-9*01

574 sequences assigned
15 (2.6%) exact matches, in which:
15 unique CDR3
5 unique J



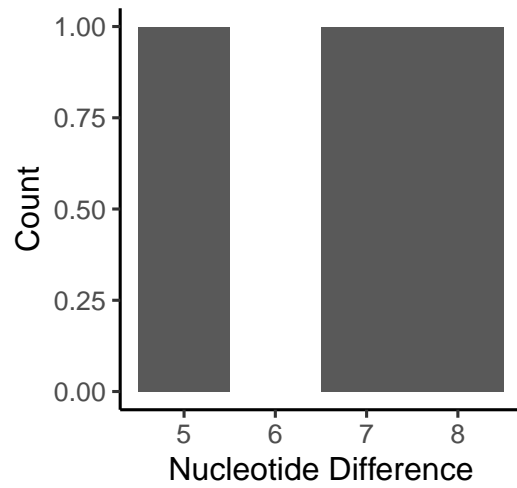
IGHV3-15*01

259 sequences assigned
8 (3.1%) exact matches, in which:
7 unique CDR3
2 unique J



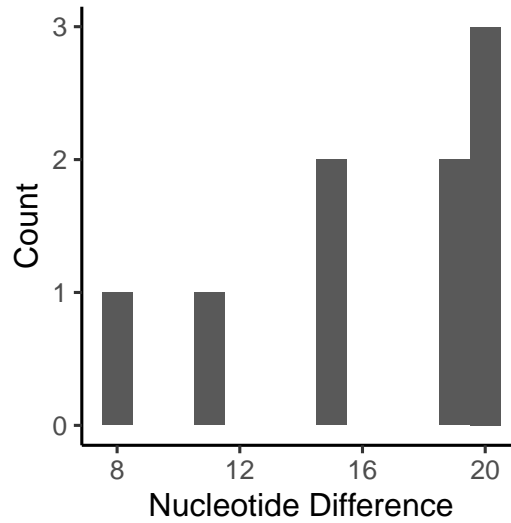
IGHV3-20*01

3 sequences assigned
No exact matches.



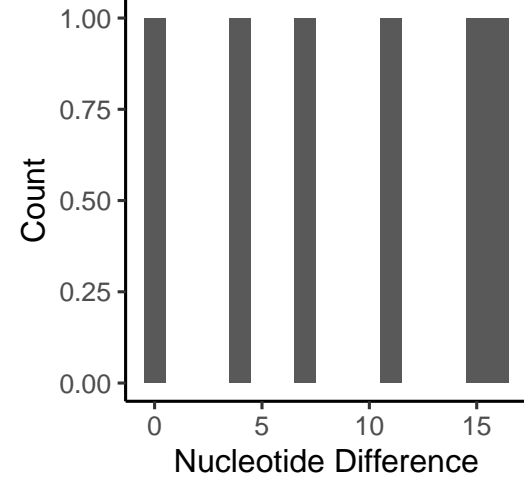
IGHV3-21*06

70 sequences assigned
No exact matches.



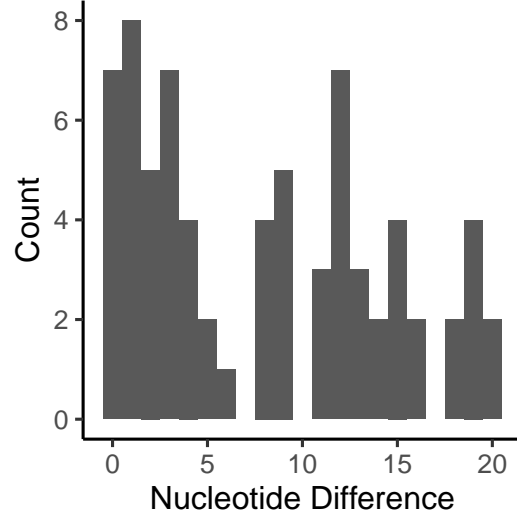
IGHV3-43*01

126 sequences assigned
1 (0.8%) exact matches, in which:
1 unique CDR3
1 unique J



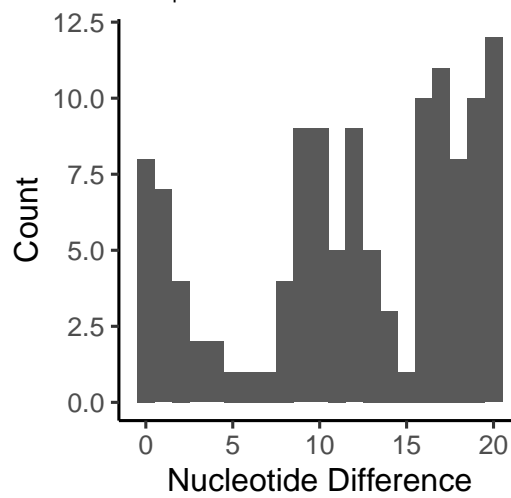
IGHV3-21*01

107 sequences assigned
7 (6.5%) exact matches, in which:
7 unique CDR3
2 unique J



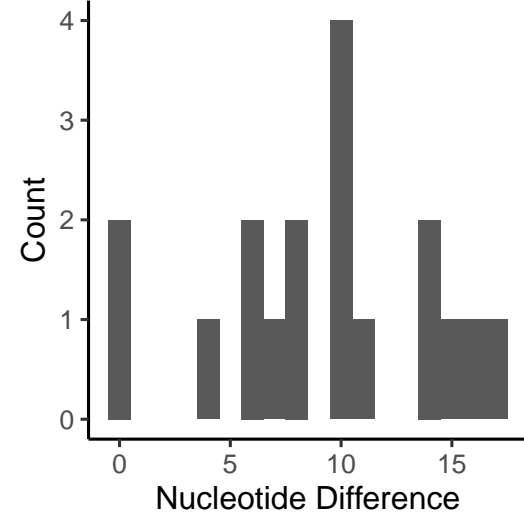
IGHV3-30-3*01

334 sequences assigned
8 (2.4%) exact matches, in which:
8 unique CDR3
4 unique J



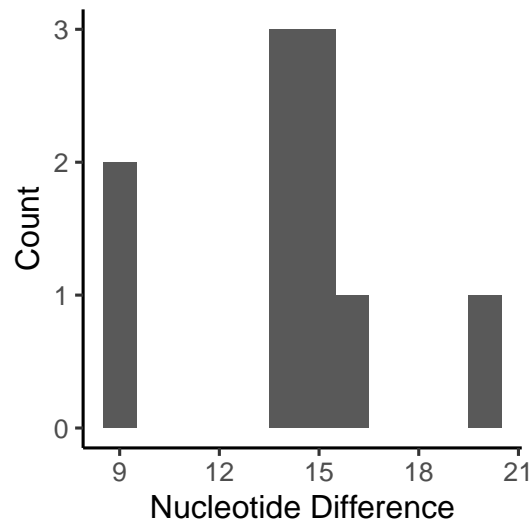
IGHV3-48*01

28 sequences assigned
2 (7.1%) exact matches, in which:
2 unique CDR3
1 unique J



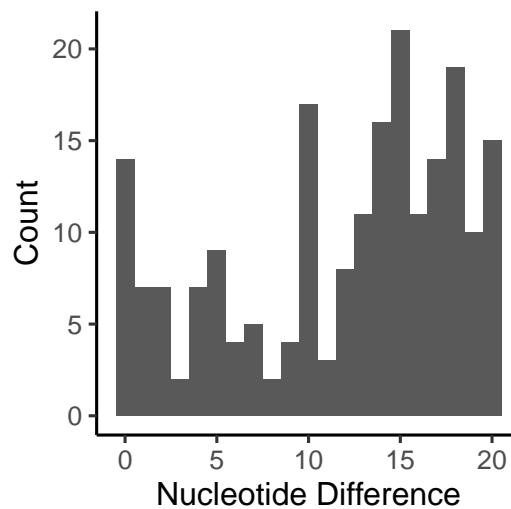
IGHV3-21*02

25 sequences assigned
No exact matches.



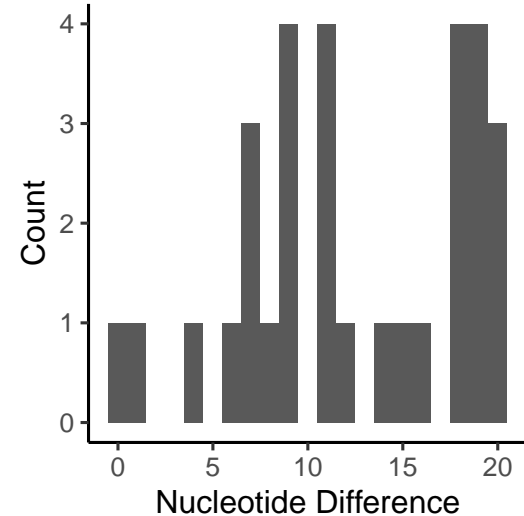
IGHV3-33*01

403 sequences assigned
14 (3.5%) exact matches, in which:
14 unique CDR3
5 unique J



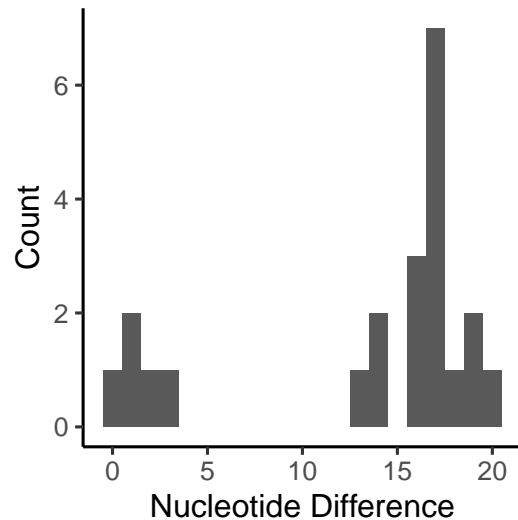
IGHV3-48*02

44 sequences assigned
1 (2.3%) exact matches, in which:
1 unique CDR3
1 unique J



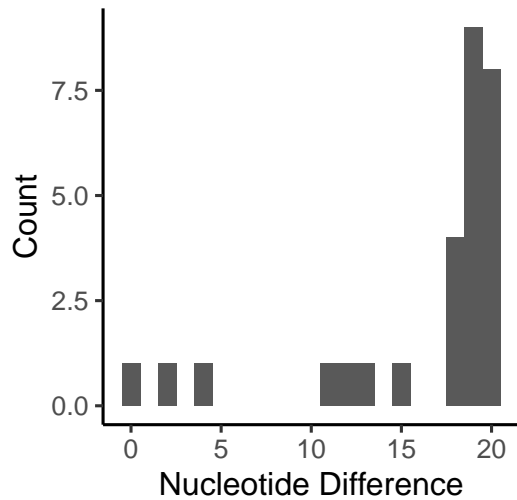
IGHV3-49*03

25 sequences assigned
1 (4%) exact matches, in which:
1 unique CDR3
1 unique J



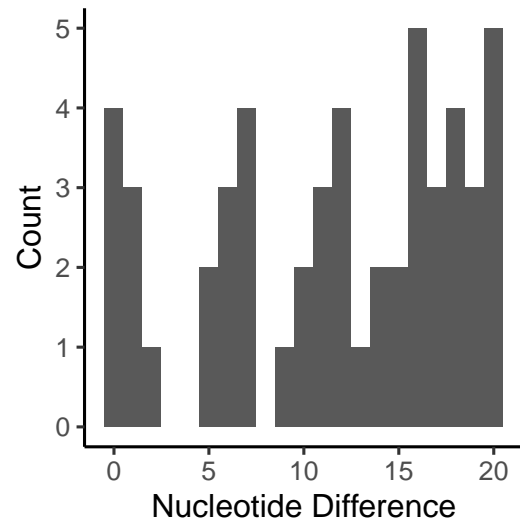
IGHV3-53*02

78 sequences assigned
1 (1.3%) exact matches, in which:
1 unique CDR3
1 unique J



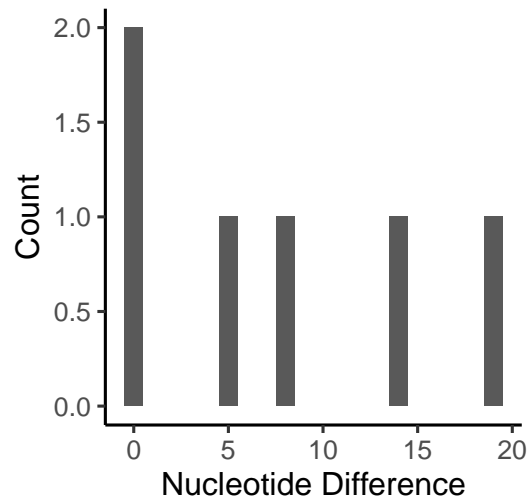
IGHV3-74*01

84 sequences assigned
4 (4.8%) exact matches, in which:
3 unique CDR3
3 unique J



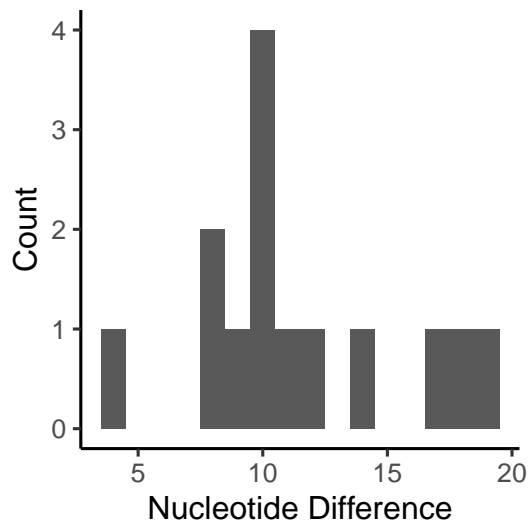
IGHV3-49*05

21 sequences assigned
2 (9.5%) exact matches, in which:
2 unique CDR3
1 unique J



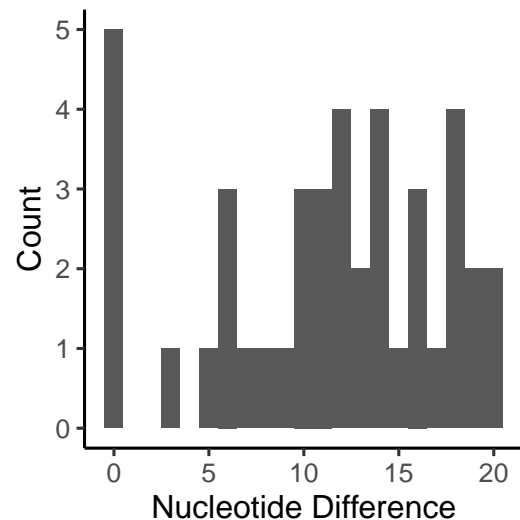
IGHV3-72*01

27 sequences assigned
No exact matches.



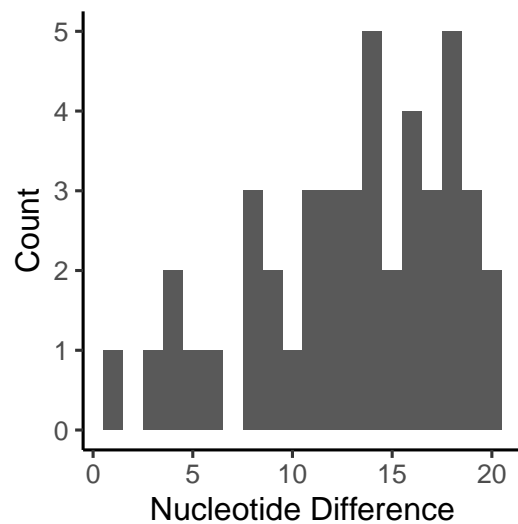
IGHV4-4*07

102 sequences assigned
5 (4.9%) exact matches, in which:
5 unique CDR3
2 unique J



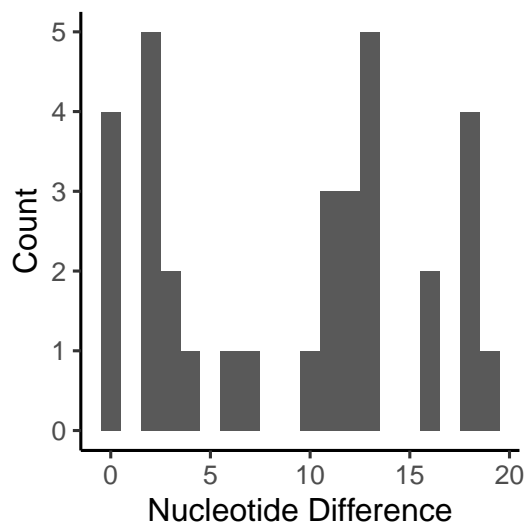
IGHV3-53*01

85 sequences assigned
No exact matches.



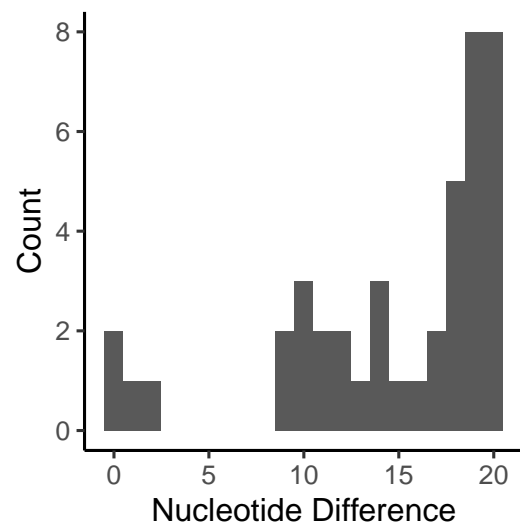
IGHV3-73*02

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



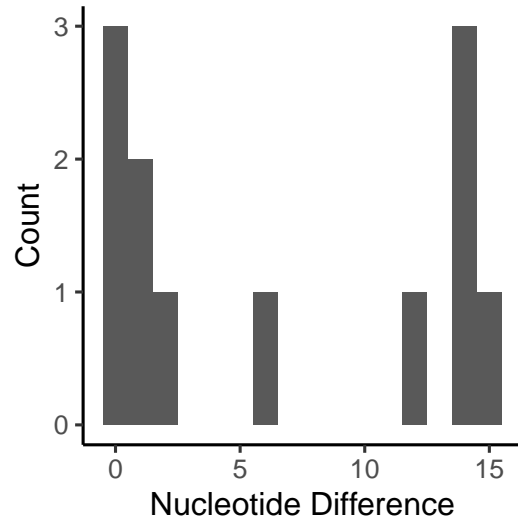
IGHV4-30-4*01

156 sequences assigned
2 (1.3%) exact matches, in which:
2 unique CDR3
2 unique J



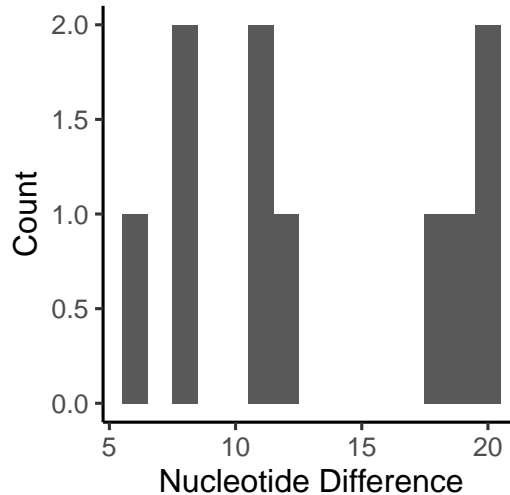
IGHV4-30-2*01

48 sequences assigned
3 (6.2%) exact matches, in which:
3 unique CDR3
2 unique J



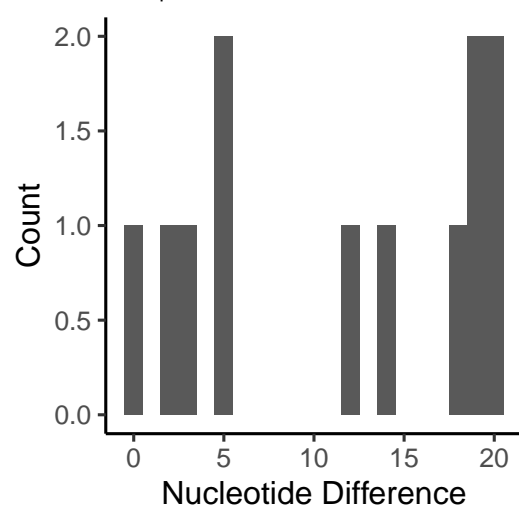
IGHV4-34*02

66 sequences assigned
No exact matches.



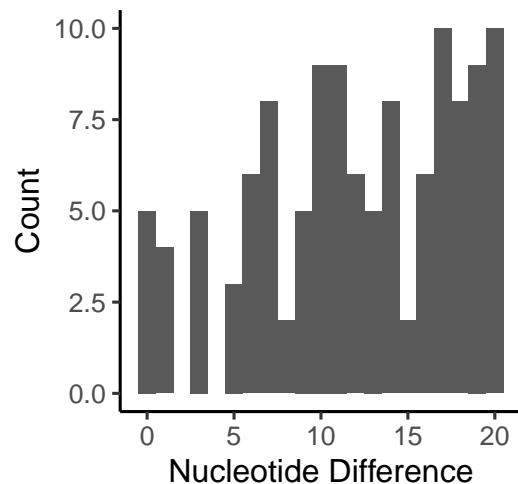
IGHV4-61*01

26 sequences assigned
1 (3.8%) exact matches, in which:
1 unique CDR3
1 unique J



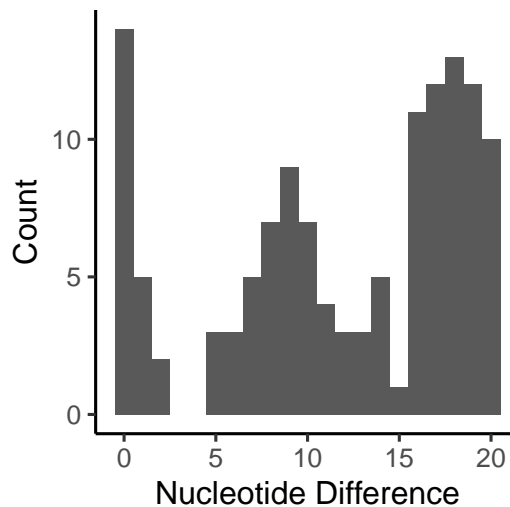
IGHV4-31*03

247 sequences assigned
5 (2%) exact matches, in which:
4 unique CDR3
2 unique J



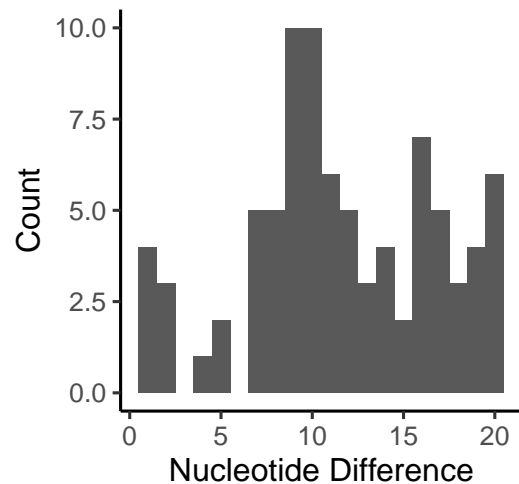
IGHV4-39*01

456 sequences assigned
14 (3.1%) exact matches, in which:
12 unique CDR3
4 unique J



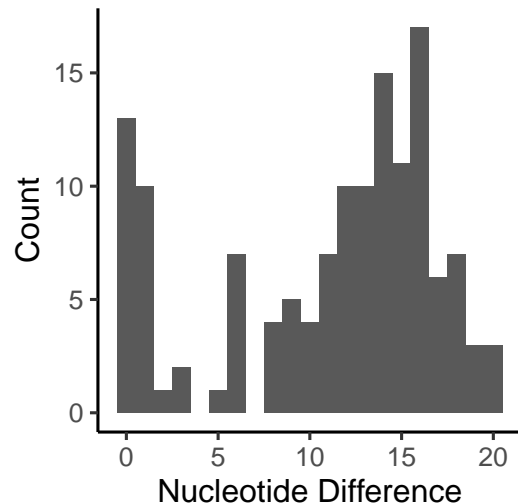
IGHV4-61*02

141 sequences assigned
No exact matches.



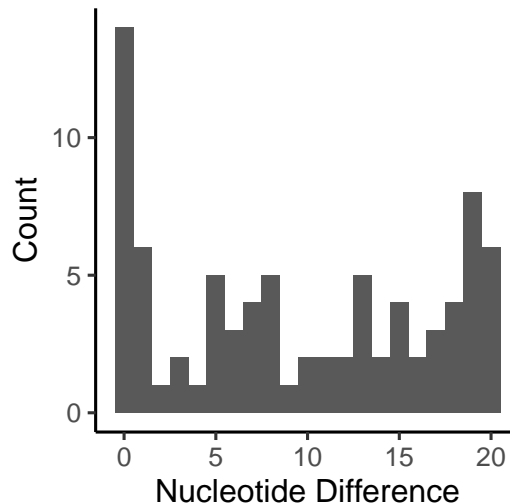
IGHV4-34*01

251 sequences assigned
13 (5.2%) exact matches, in which:
13 unique CDR3
4 unique J



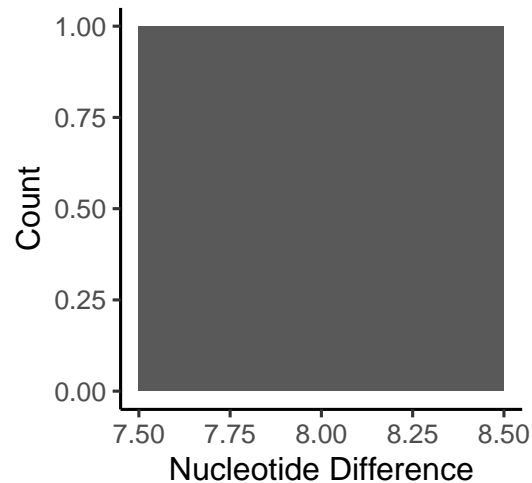
IGHV4-59*01

139 sequences assigned
14 (10.1%) exact matches, in which:
14 unique CDR3
5 unique J



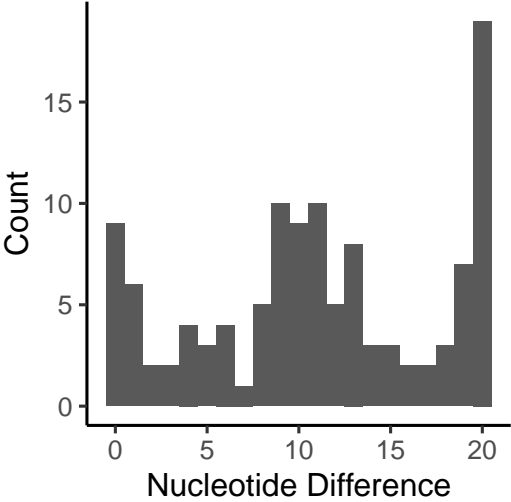
IGHV5-10-1*03

2 sequences assigned
No exact matches.



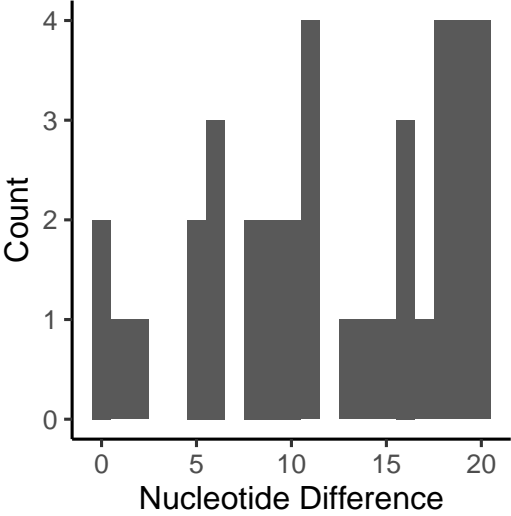
IGHV5-51*01

176 sequences assigned
9 (5.1%) exact matches, in which:
8 unique CDR3
3 unique J



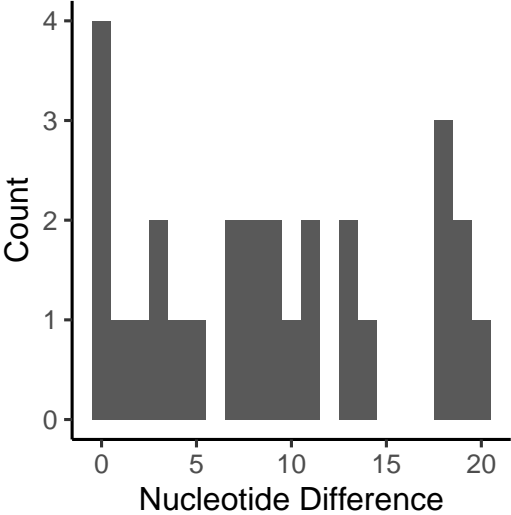
IGHV5-51*03

58 sequences assigned
2 (3.4%) exact matches, in which:
2 unique CDR3
1 unique J

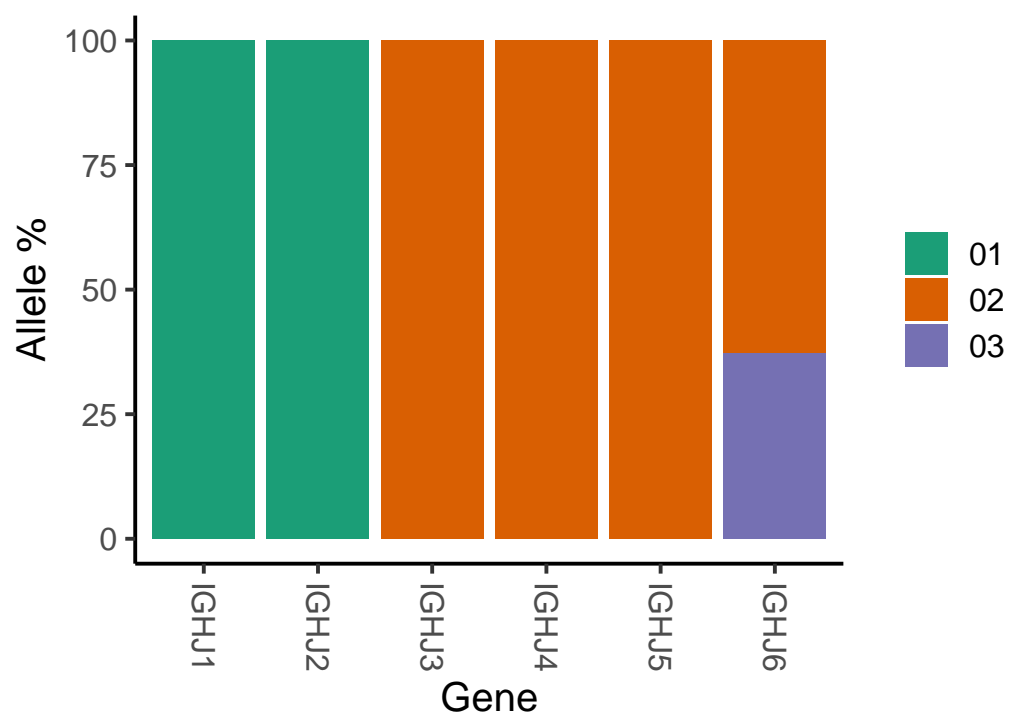


IGHV6-1*01

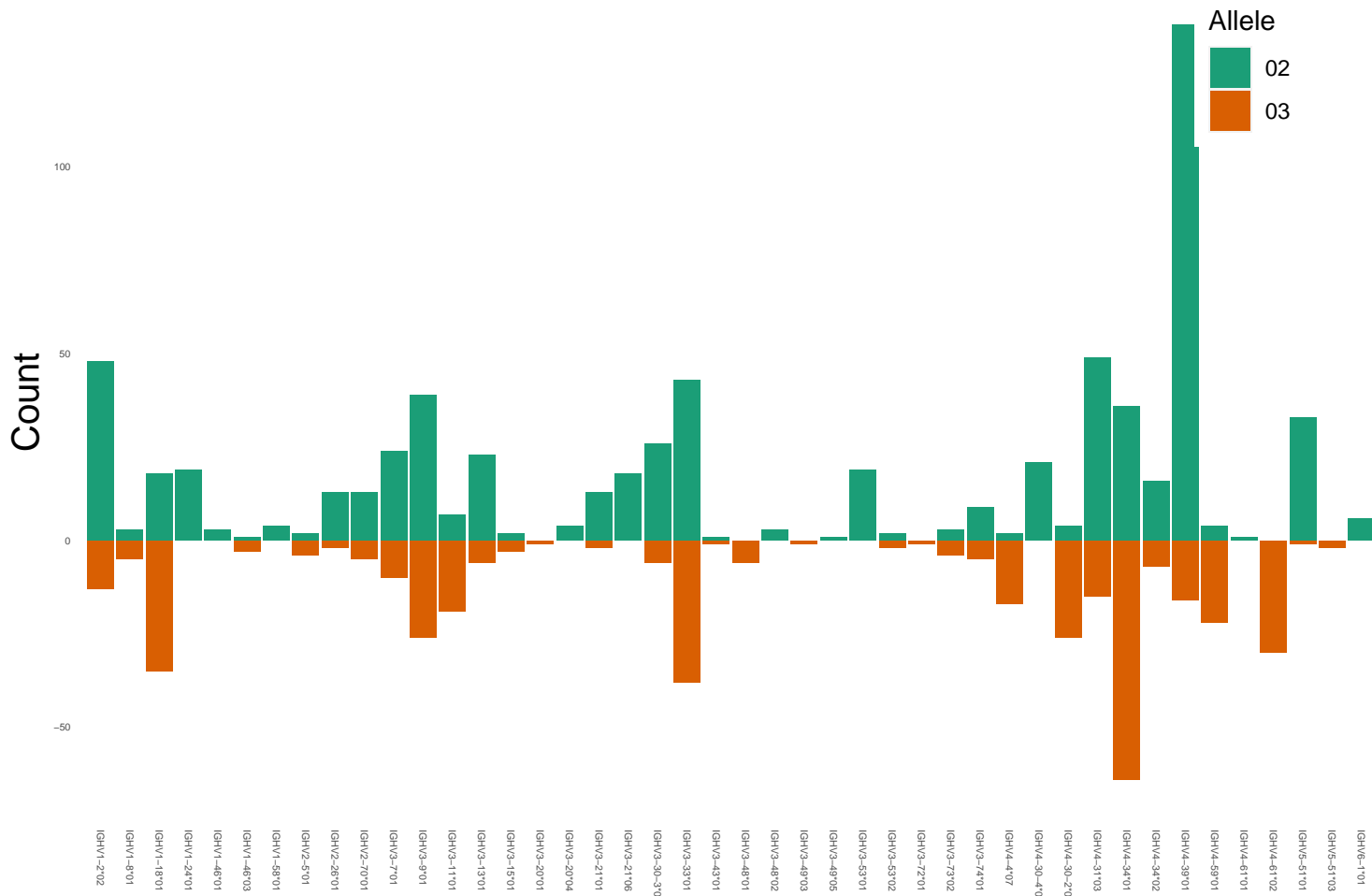
31 sequences assigned
4 (12.9%) exact matches, in which:
4 unique CDR3
3 unique J



Allele Usage



Sequence Count by IGHJ6 allele usage



Warning – no inferred sequences found.

Warning – no inferred sequences found.

Warning – no inferred sequences found.