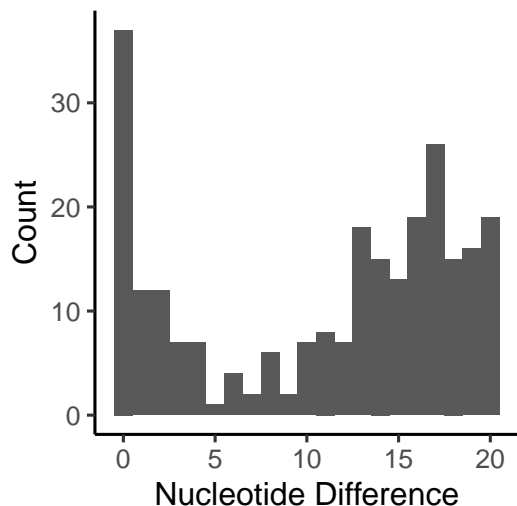


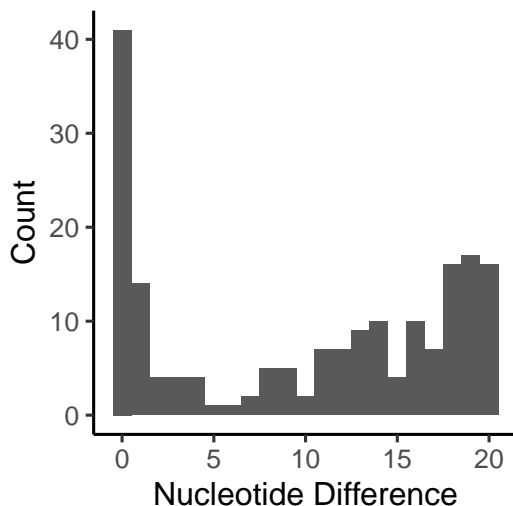
IGHV1-2*06

584 sequences assigned
37 (6.3%) exact matches, in which:
37 unique CDR3
4 unique J



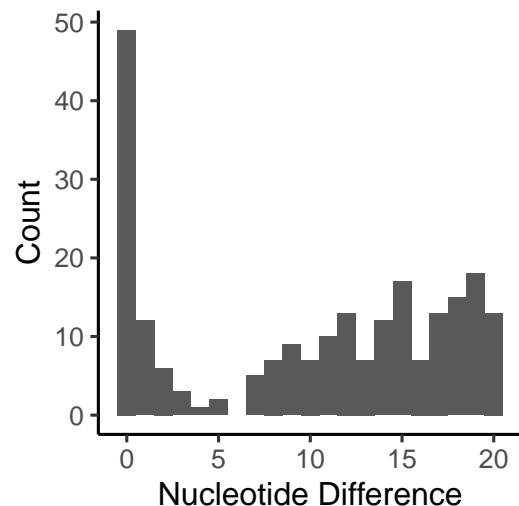
IGHV1-18*01

464 sequences assigned
41 (8.8%) exact matches, in which:
41 unique CDR3
7 unique J



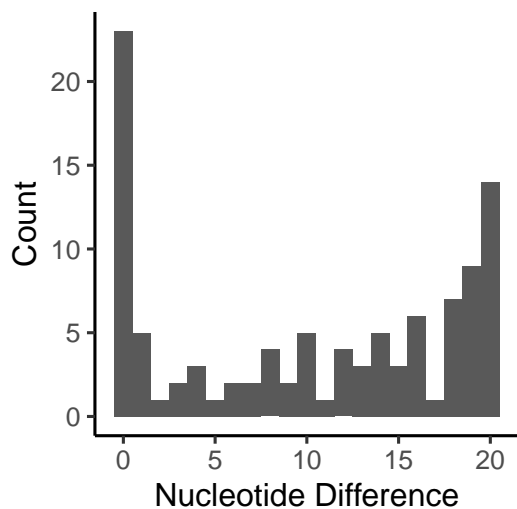
IGHV1-46*01

558 sequences assigned
49 (8.8%) exact matches, in which:
49 unique CDR3
6 unique J



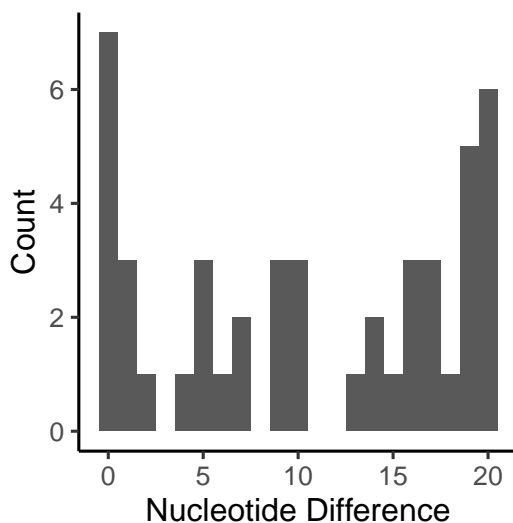
IGHV1-3*01

258 sequences assigned
23 (8.9%) exact matches, in which:
23 unique CDR3
5 unique J



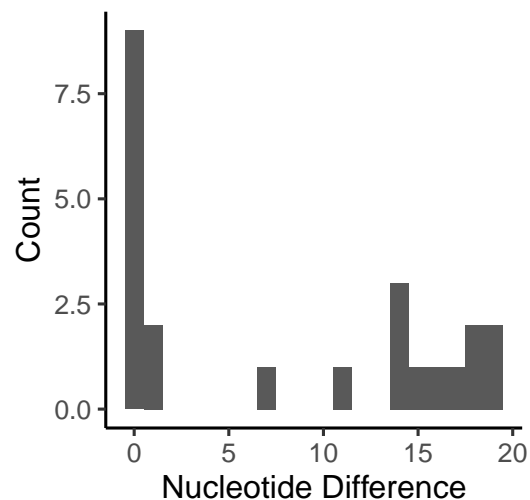
IGHV1-24*01

72 sequences assigned
7 (9.7%) exact matches, in which:
7 unique CDR3
4 unique J



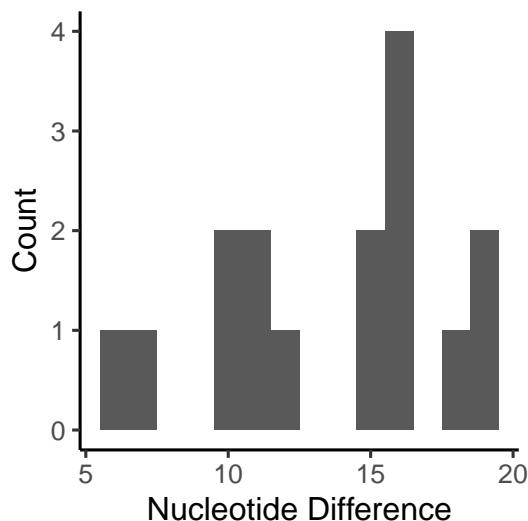
IGHV1-58*01

46 sequences assigned
9 (19.6%) exact matches, in which:
9 unique CDR3
3 unique J



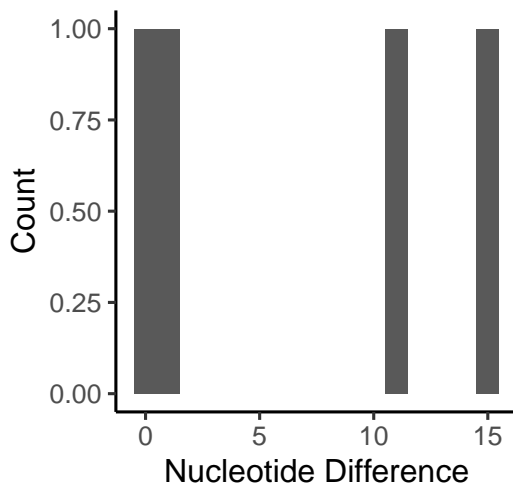
IGHV1-3*04

55 sequences assigned
No exact matches.



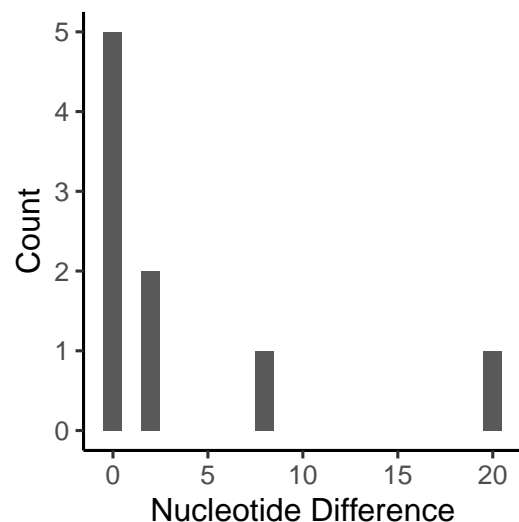
IGHV1-45*02

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



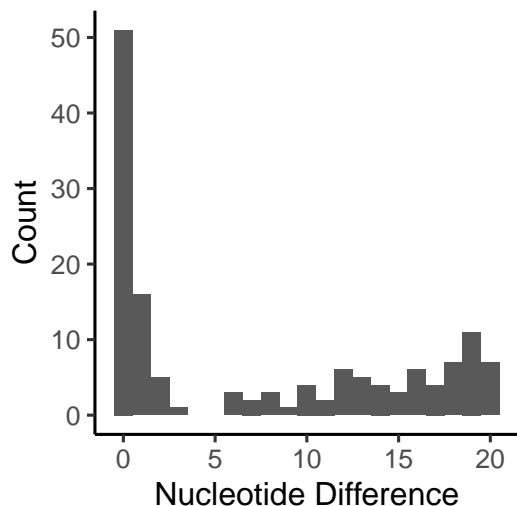
IGHV1-69-2*01

17 sequences assigned
5 (29.4%) exact matches, in which:
5 unique CDR3
3 unique J



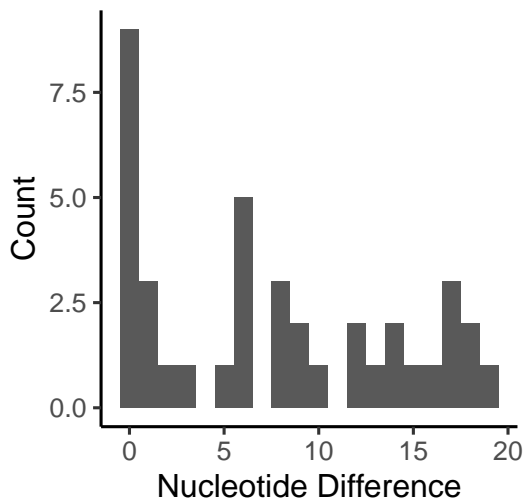
IGHV1-69*06

298 sequences assigned
51 (17.1%) exact matches, in which:
51 unique CDR3
5 unique J



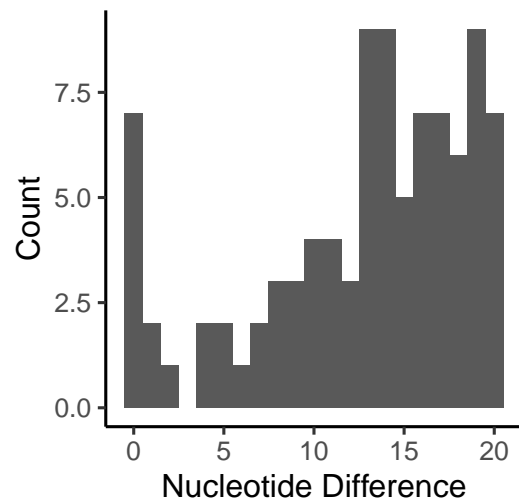
IGHV2-70*01

70 sequences assigned
9 (12.9%) exact matches, in which:
9 unique CDR3
5 unique J



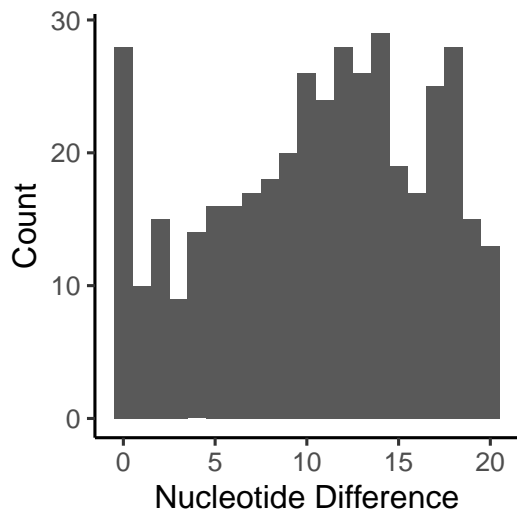
IGHV3-7*04

166 sequences assigned
7 (4.2%) exact matches, in which:
7 unique CDR3
4 unique J



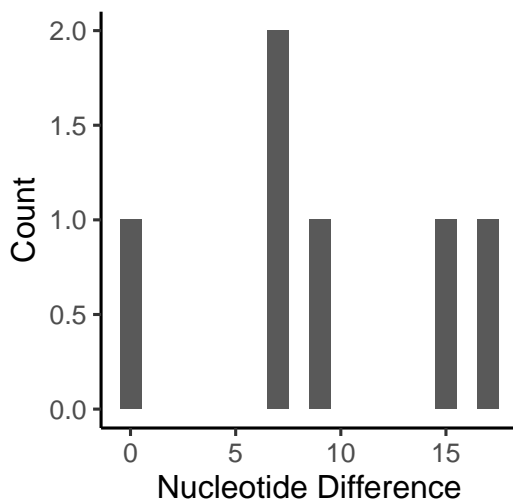
IGHV2-5*02

706 sequences assigned
28 (4%) exact matches, in which:
28 unique CDR3
5 unique J



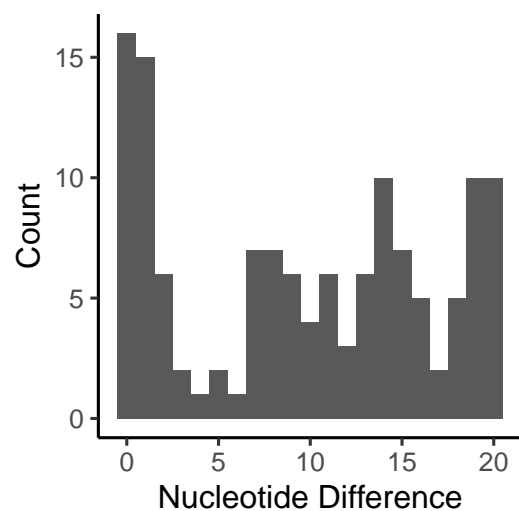
IGHV2-70*13

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



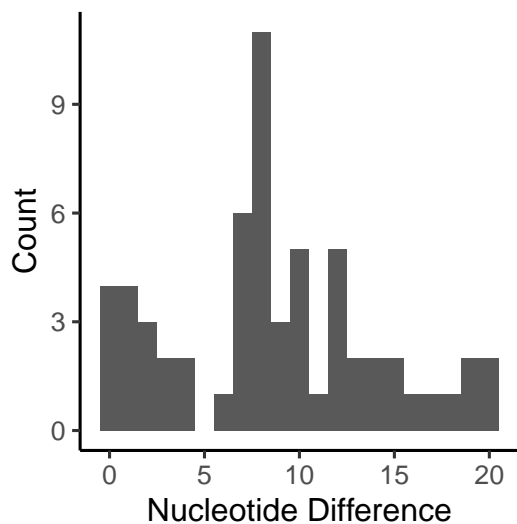
IGHV3-11*05

277 sequences assigned
16 (5.8%) exact matches, in which:
16 unique CDR3
3 unique J



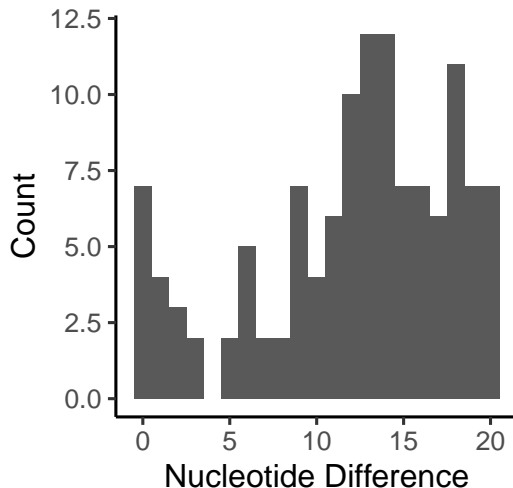
IGHV2-26*01

74 sequences assigned
4 (5.4%) exact matches, in which:
4 unique CDR3
3 unique J



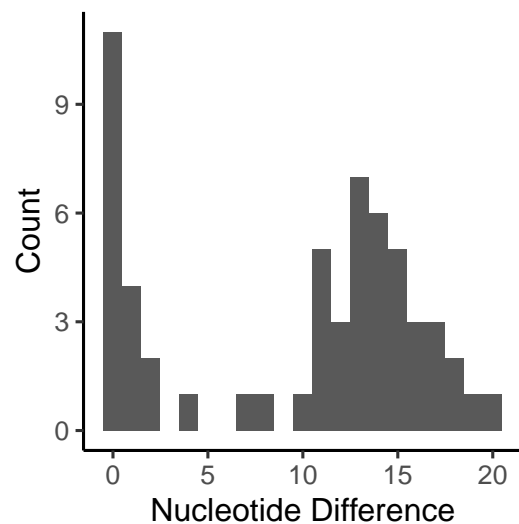
IGHV3-7*01

203 sequences assigned
7 (3.4%) exact matches, in which:
7 unique CDR3
4 unique J



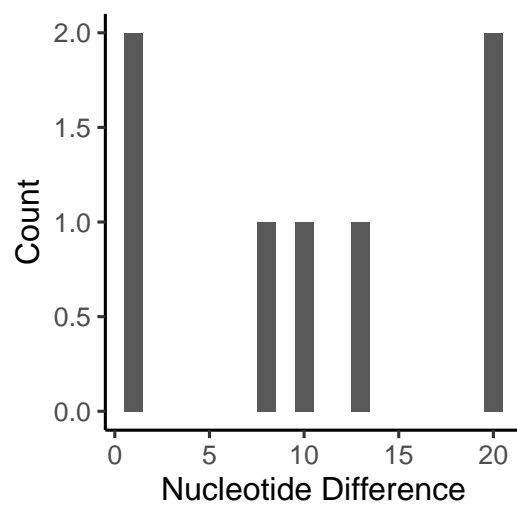
IGHV3-11*06

148 sequences assigned
11 (7.4%) exact matches, in which:
11 unique CDR3
2 unique J



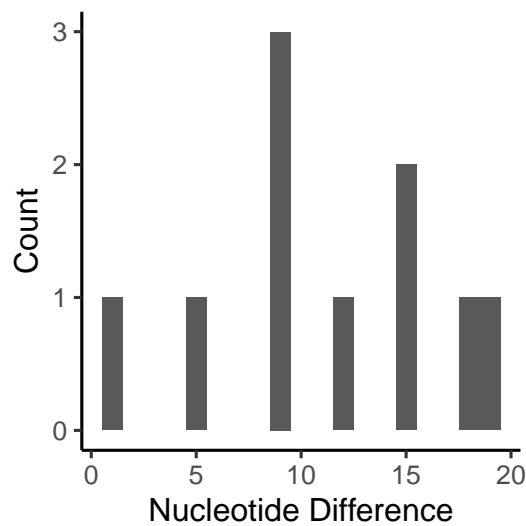
IGHV3-13*01

23 sequences assigned
No exact matches.



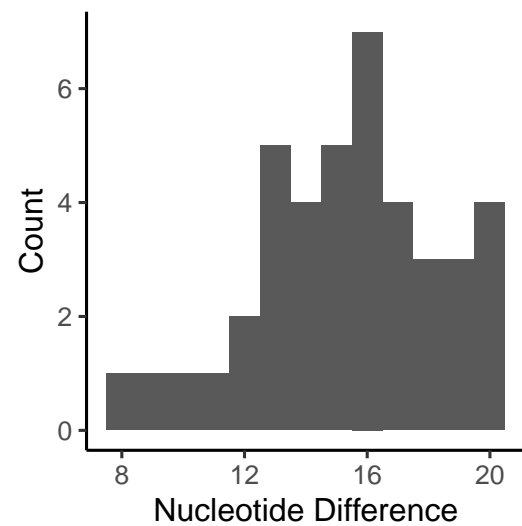
IGHV3-20*01

12 sequences assigned
No exact matches.



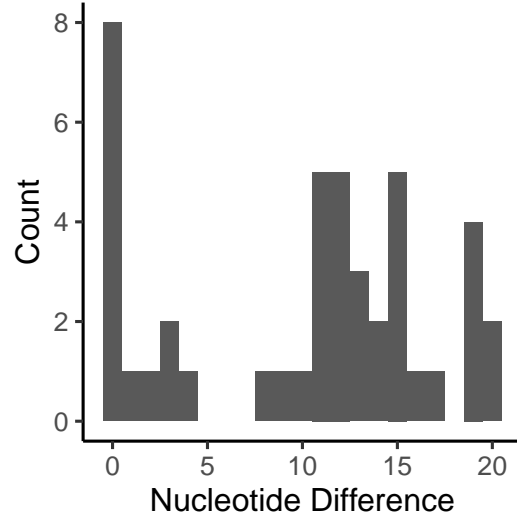
IGHV3-21*02

127 sequences assigned
No exact matches.



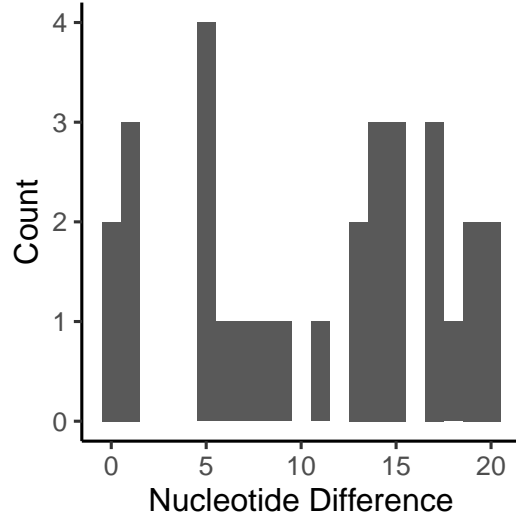
IGHV3-13*04

58 sequences assigned
8 (13.8%) exact matches, in which:
8 unique CDR3
4 unique J



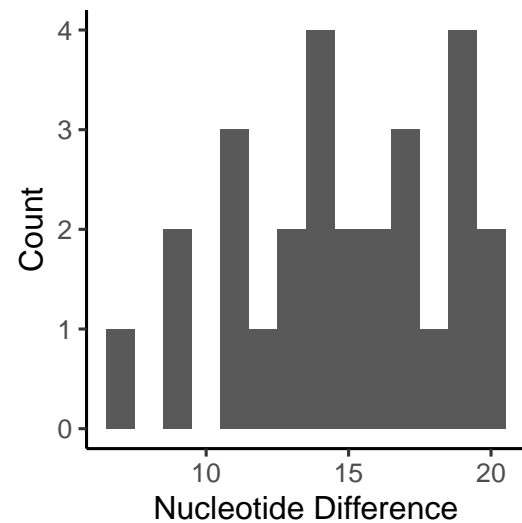
IGHV3-20*04

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



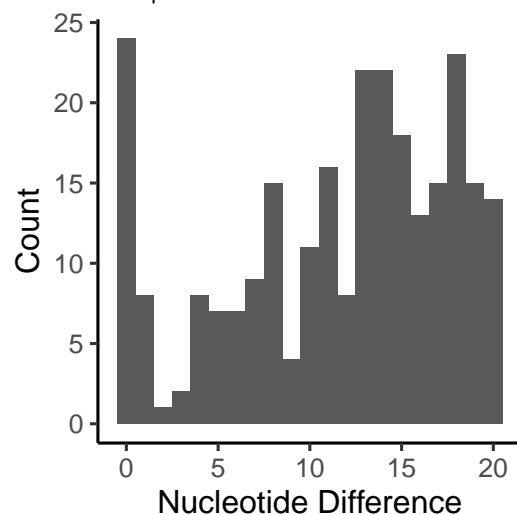
IGHV3-21*06

60 sequences assigned
No exact matches.



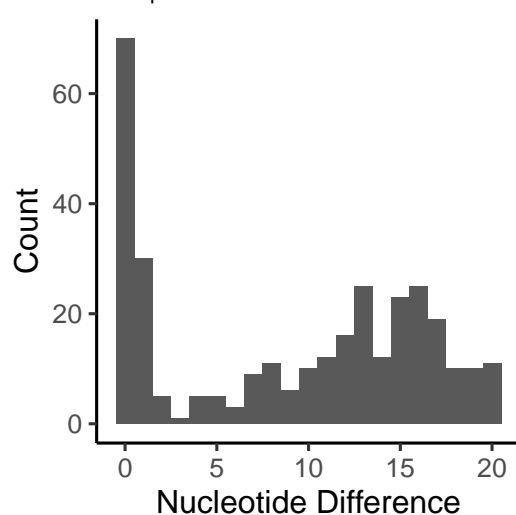
IGHV3-15*01

465 sequences assigned
24 (5.2%) exact matches, in which:
24 unique CDR3
6 unique J



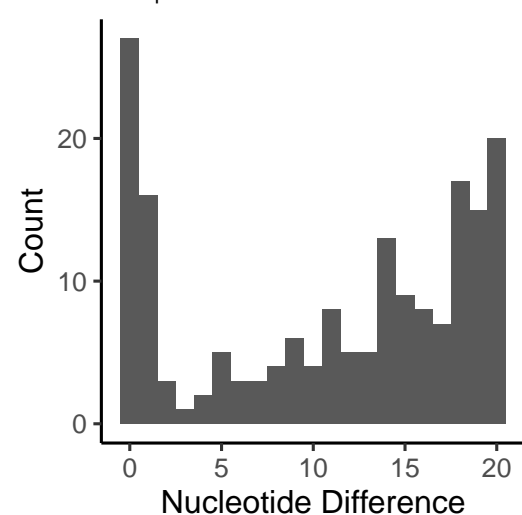
IGHV3-21*01

448 sequences assigned
70 (15.6%) exact matches, in which:
70 unique CDR3
6 unique J



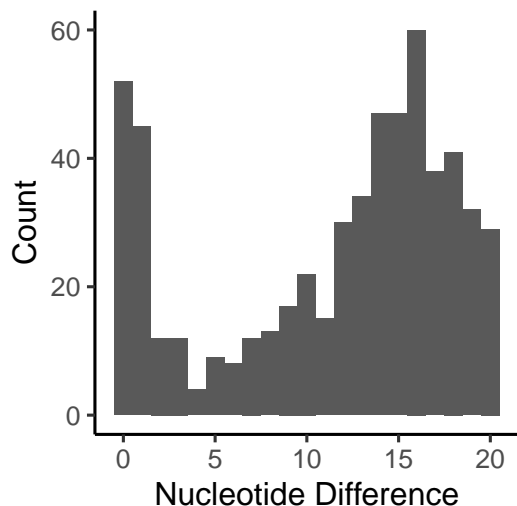
IGHV3-30-3*01

393 sequences assigned
27 (6.9%) exact matches, in which:
27 unique CDR3
4 unique J



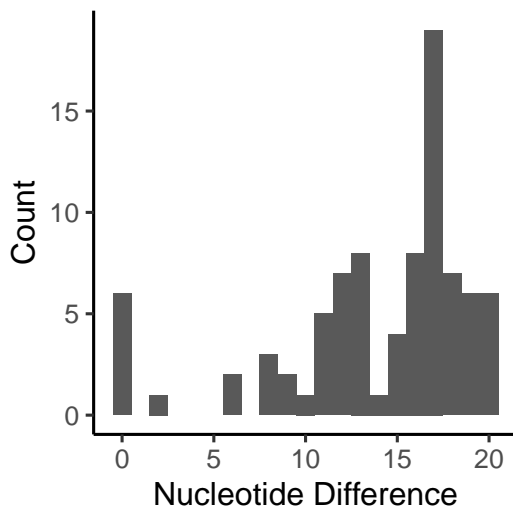
IGHV3-33*01

1146 sequences assigned
52 (4.5%) exact matches, in which:
50 unique CDR3
6 unique J



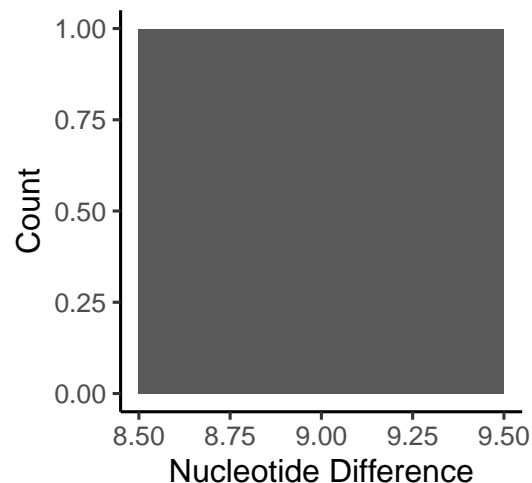
IGHV3-49*05

226 sequences assigned
6 (2.7%) exact matches, in which:
6 unique CDR3
2 unique J



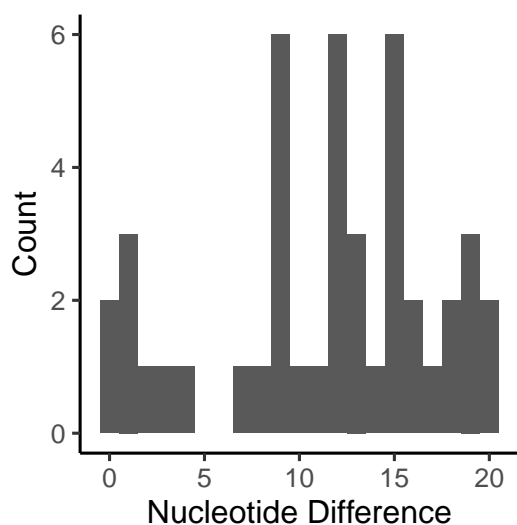
IGHV3-66*03

1 sequences assigned
No exact matches.



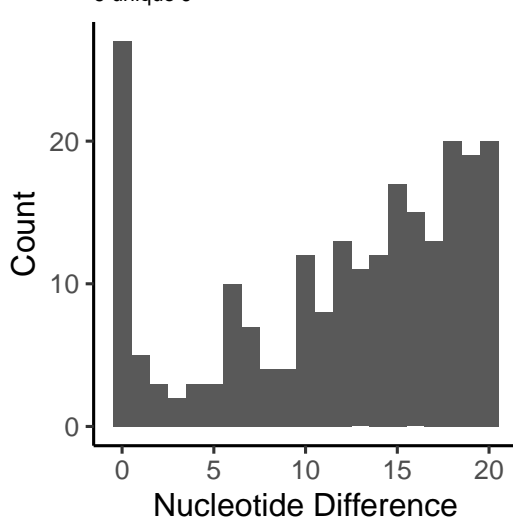
IGHV3-43*01

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



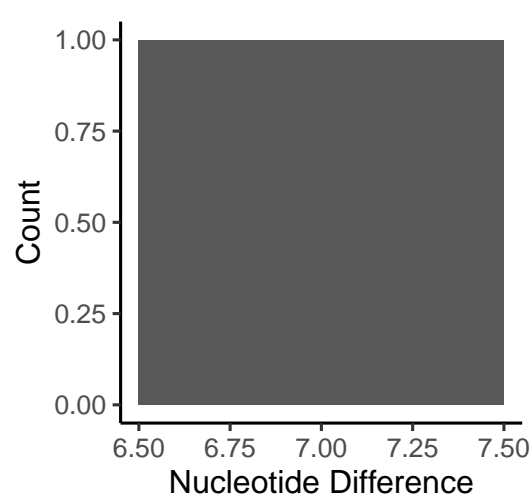
IGHV3-53*01

454 sequences assigned
27 (5.9%) exact matches, in which:
27 unique CDR3
6 unique J



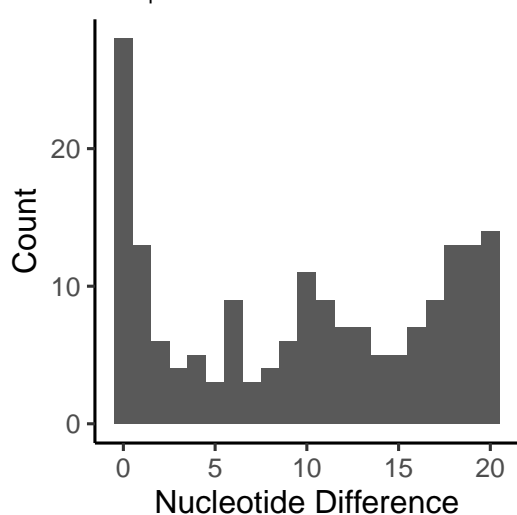
IGHV3-69-1*01

1 sequences assigned
No exact matches.



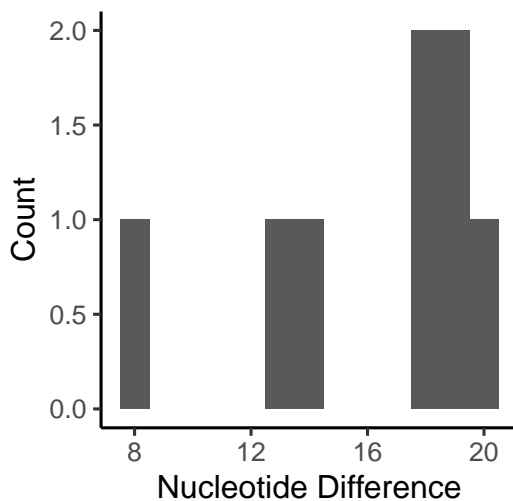
IGHV3-48*02

330 sequences assigned
28 (8.5%) exact matches, in which:
28 unique CDR3
5 unique J



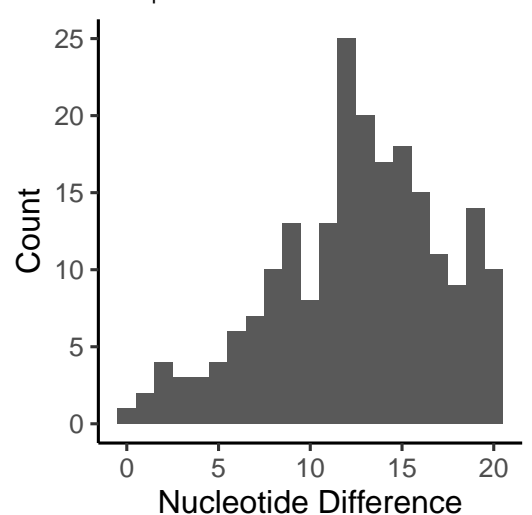
IGHV3-64*02

10 sequences assigned
No exact matches.



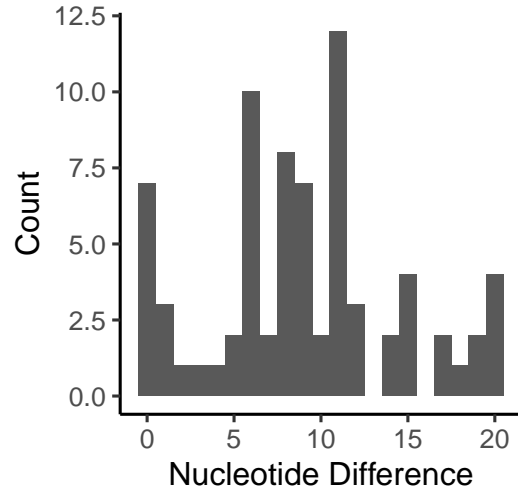
IGHV3-72*01

286 sequences assigned
1 (0.3%) exact matches, in which:
1 unique CDR3
1 unique J



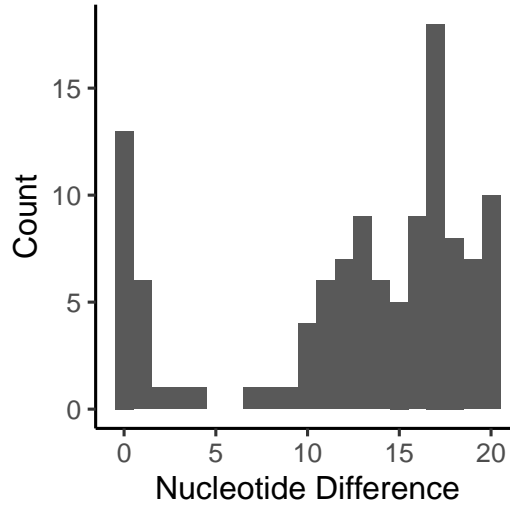
IGHV3-73*02

129 sequences assigned
7 (5.4%) exact matches, in which:
7 unique CDR3
3 unique J



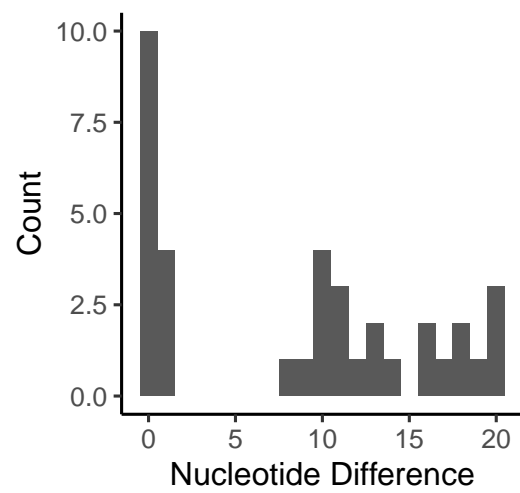
IGHV3-64D*06

224 sequences assigned
13 (5.8%) exact matches, in which:
13 unique CDR3
6 unique J



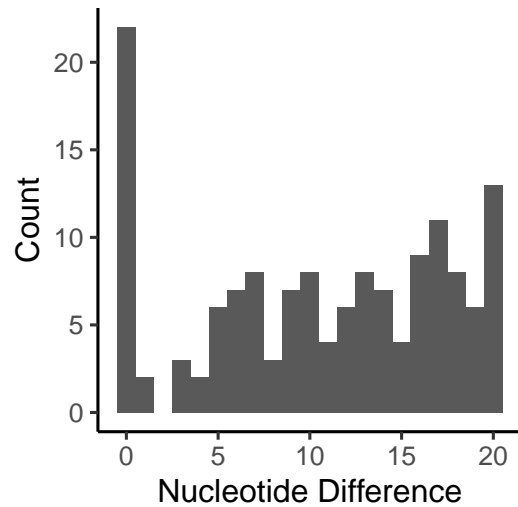
IGHV4-30-2*01

84 sequences assigned
10 (11.9%) exact matches, in which:
10 unique CDR3
5 unique J



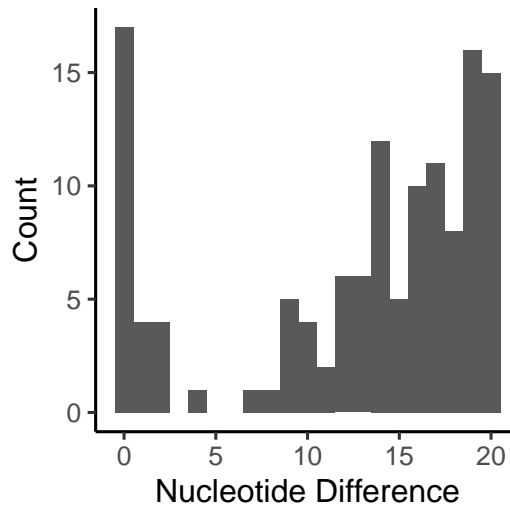
IGHV3-74*01

287 sequences assigned
22 (7.7%) exact matches, in which:
22 unique CDR3
5 unique J



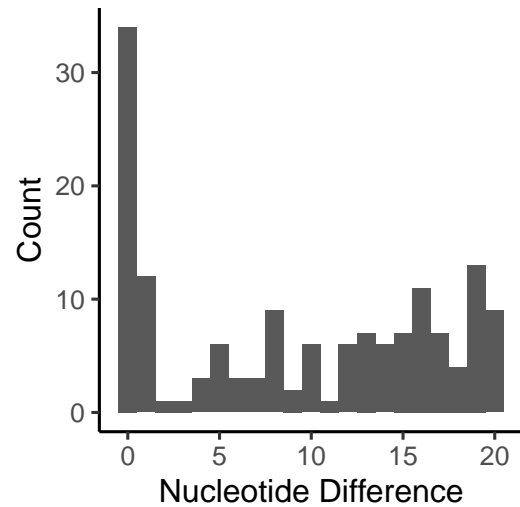
IGHV4-4*02

299 sequences assigned
17 (5.7%) exact matches, in which:
17 unique CDR3
5 unique J



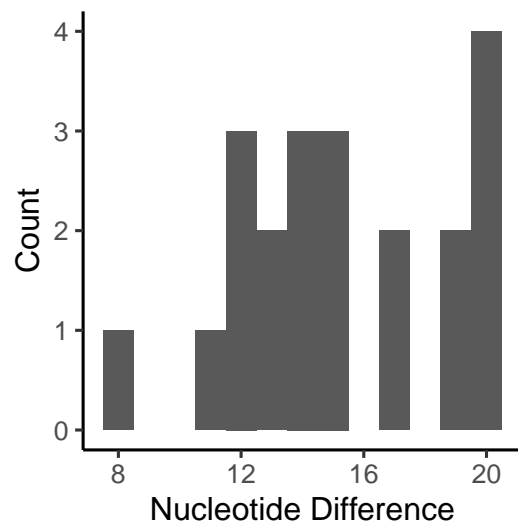
IGHV4-31*03

373 sequences assigned
34 (9.1%) exact matches, in which:
34 unique CDR3
7 unique J



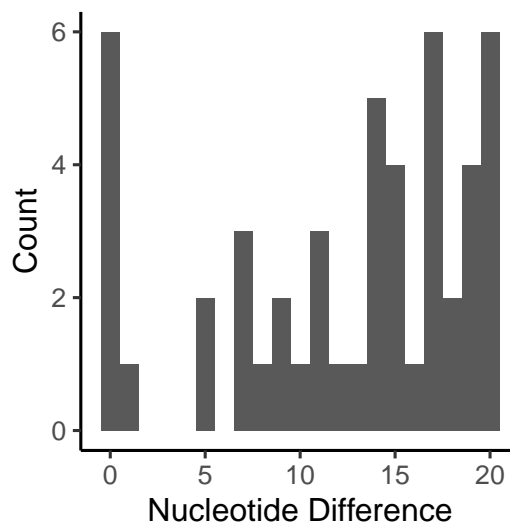
IGHV3-74*03

44 sequences assigned
No exact matches.



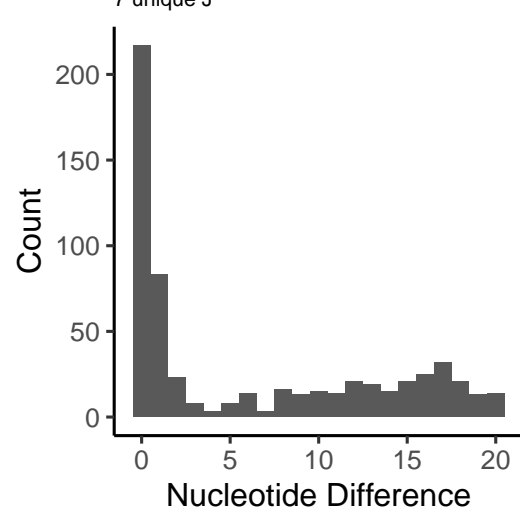
IGHV4-30-4*01

121 sequences assigned
6 (5%) exact matches, in which:
6 unique CDR3
3 unique J



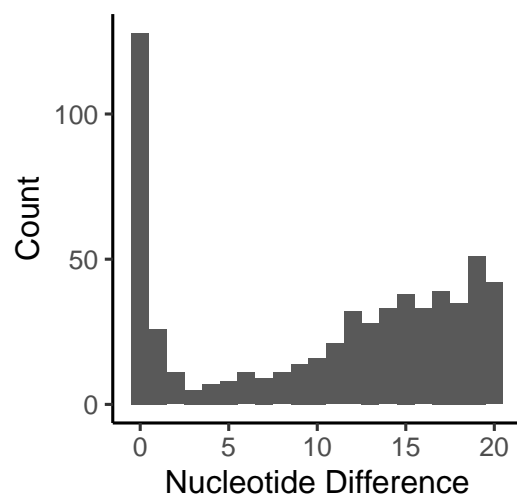
IGHV4-34*01

1042 sequences assigned
217 (20.8%) exact matches, in which:
216 unique CDR3
7 unique J



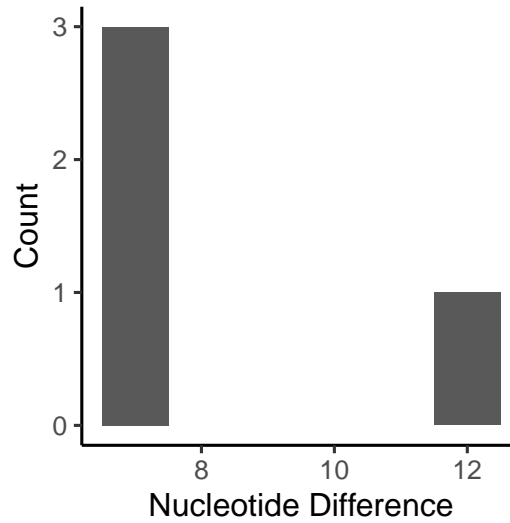
IGHV4-39*01

1463 sequences assigned
128 (8.7%) exact matches, in which:
127 unique CDR3
6 unique J



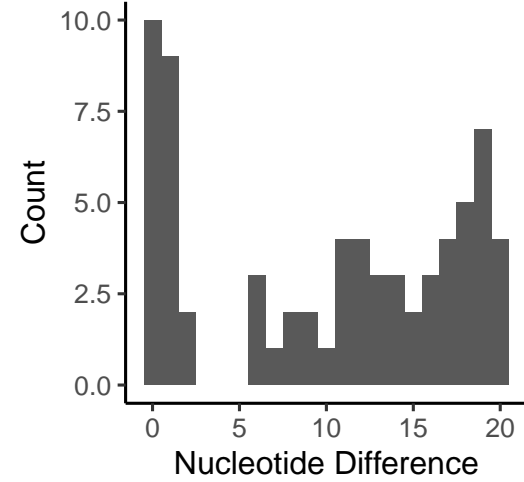
IGHV4-61*03

10 sequences assigned
No exact matches.



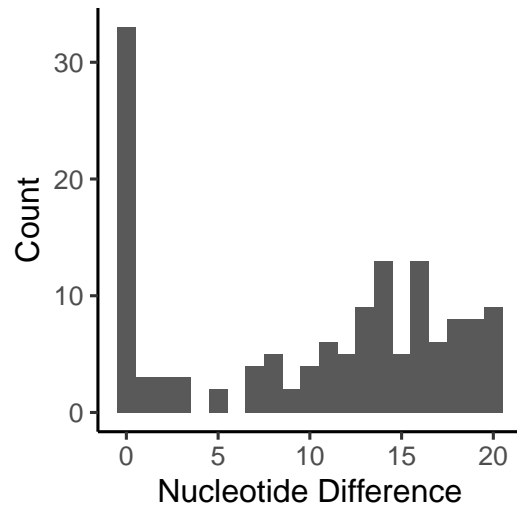
IGHV5-10-1*03

162 sequences assigned
10 (6.2%) exact matches, in which:
10 unique CDR3
4 unique J



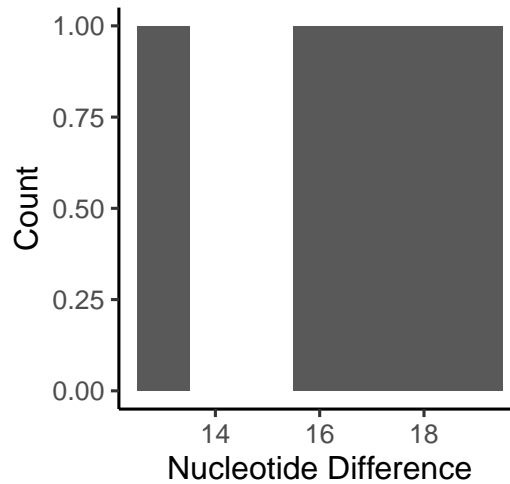
IGHV4-59*01

376 sequences assigned
33 (8.8%) exact matches, in which:
33 unique CDR3
5 unique J



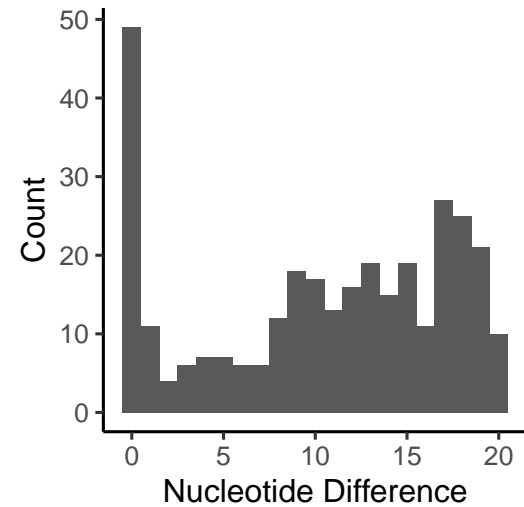
IGHV4-61*08

34 sequences assigned
No exact matches.



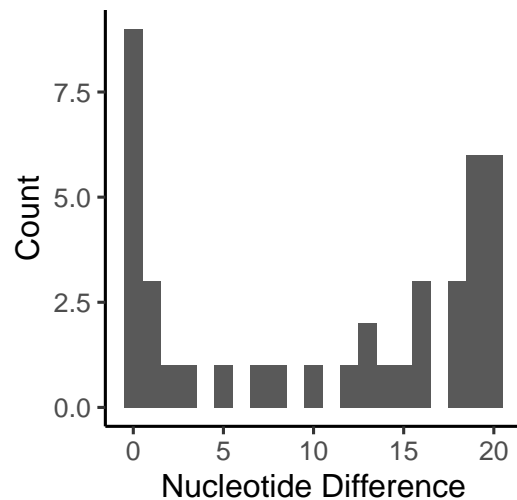
IGHV5-51*01

548 sequences assigned
49 (8.9%) exact matches, in which:
49 unique CDR3
7 unique J



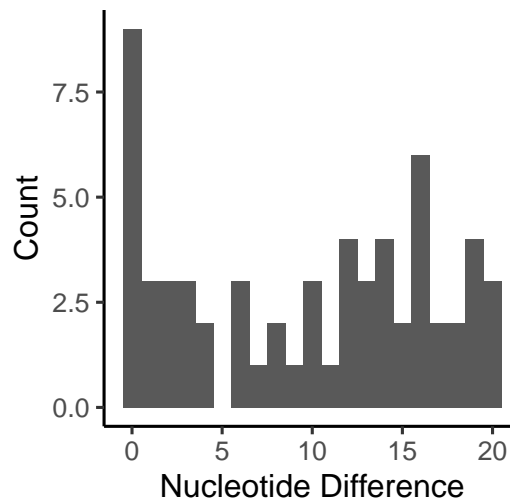
IGHV4-61*01

80 sequences assigned
9 (11.2%) exact matches, in which:
9 unique CDR3
6 unique J



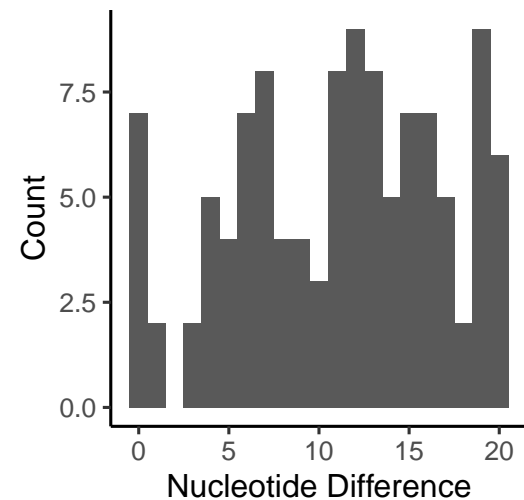
IGHV5-10-1*01

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



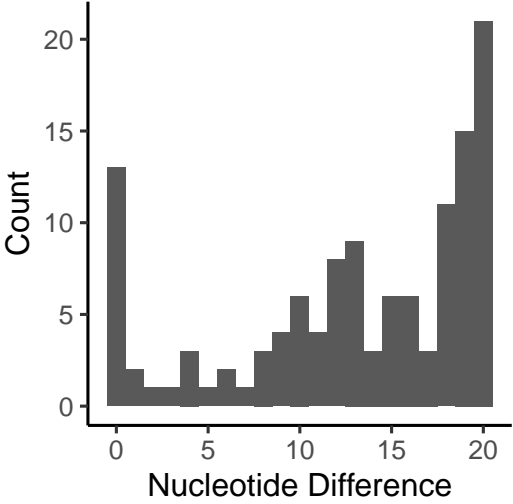
IGHV6-1*01

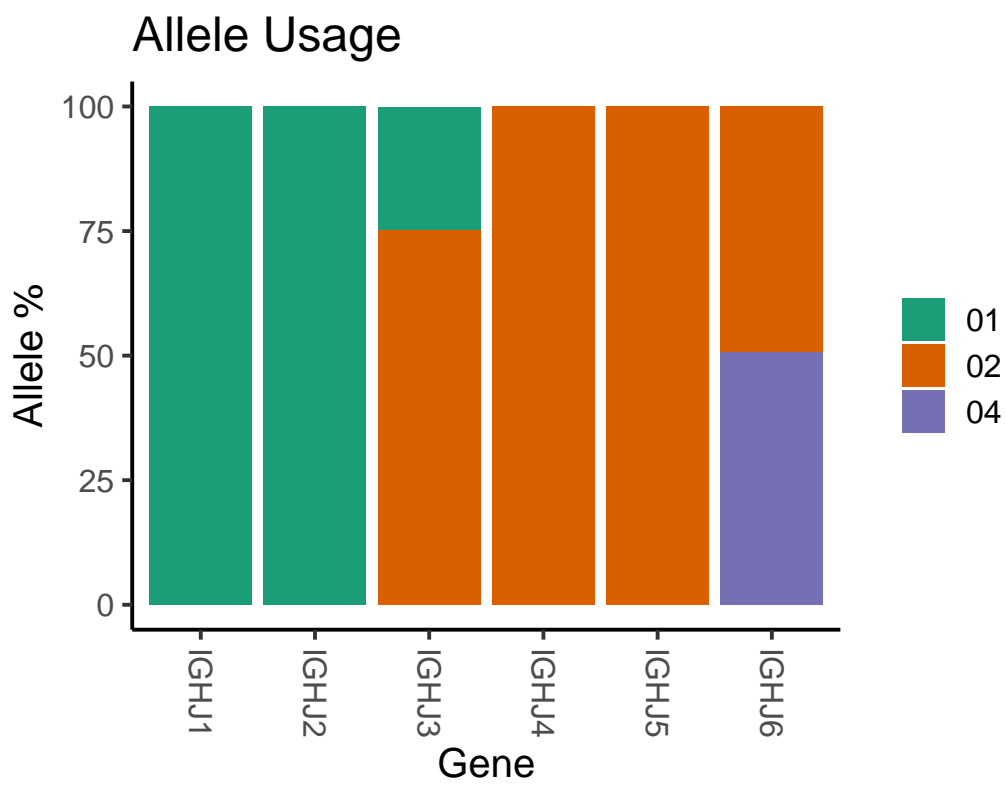
168 sequences assigned
7 (4.2%) exact matches, in which:
7 unique CDR3
3 unique J



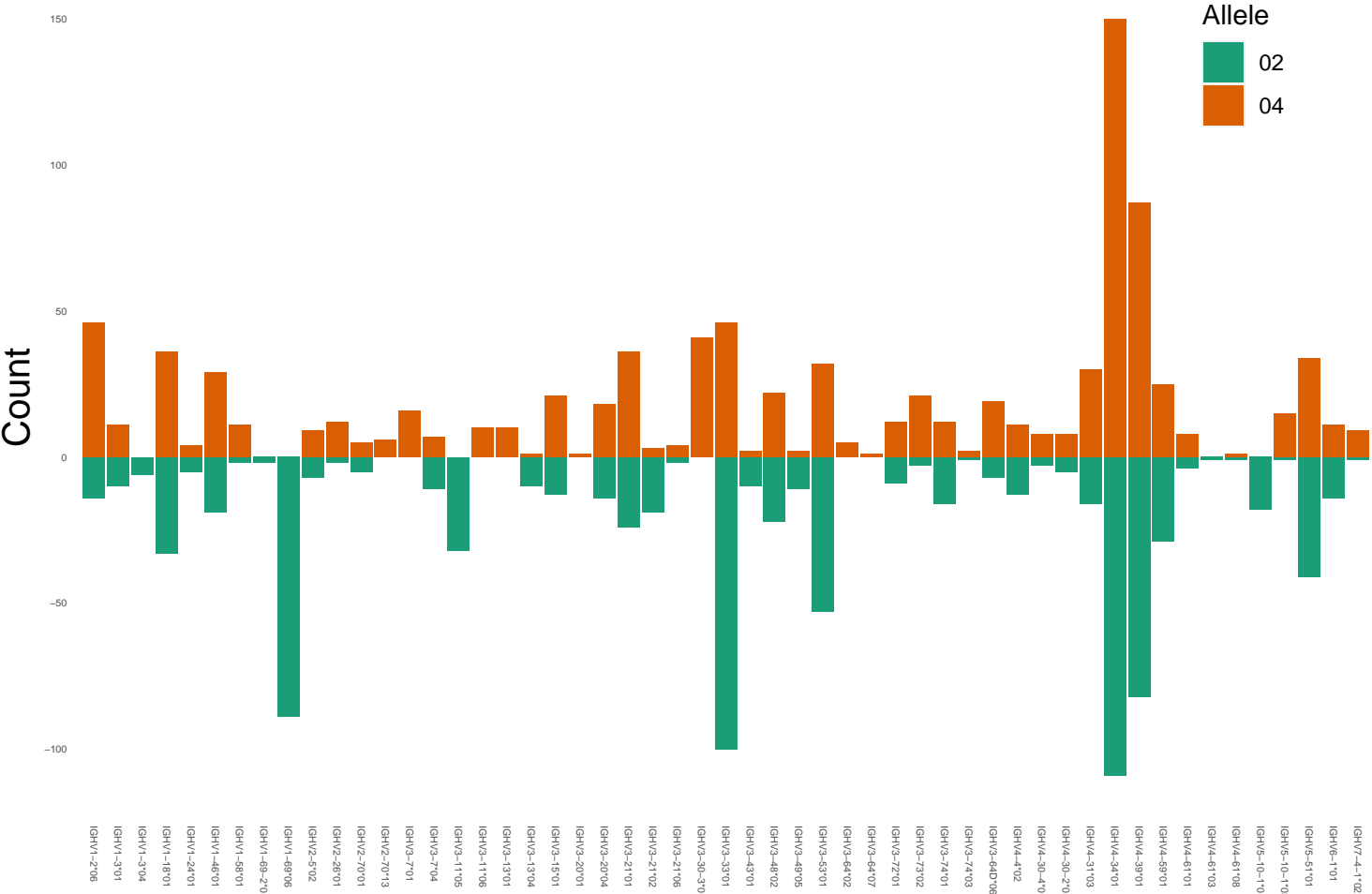
IGHV7-4-1*02

200 sequences assigned
13 (6.5%) exact matches, in which:
13 unique CDR3
5 unique J





Sequence Count by IGHJ6 allele usage



Warning – no inferred sequences found.