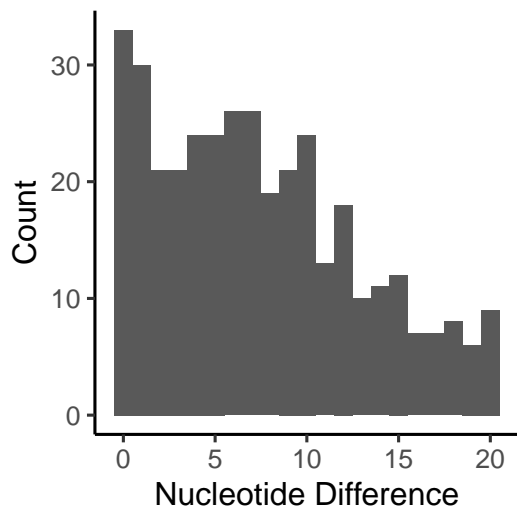


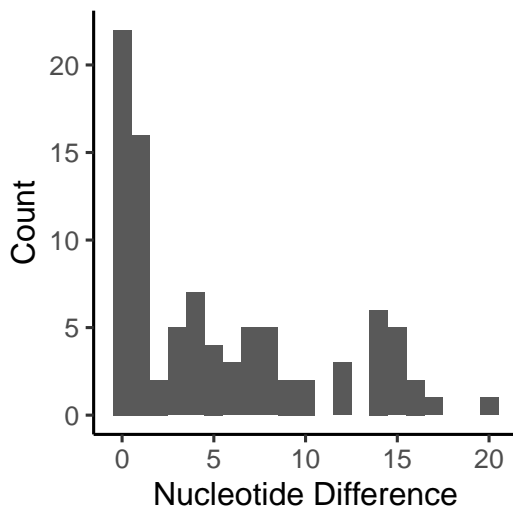
IGHV1-2*02

401 sequences assigned
33 (8.2%) exact matches, in which:
32 unique CDR3
6 unique J



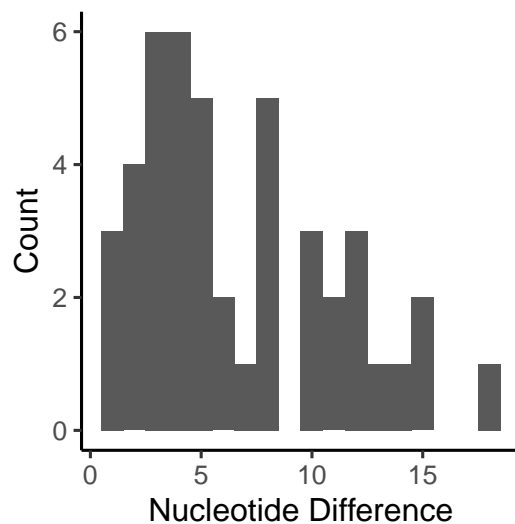
IGHV1-3*01_05

95 sequences assigned
22 (23.2%) exact matches, in which:
13 unique CDR3
4 unique J



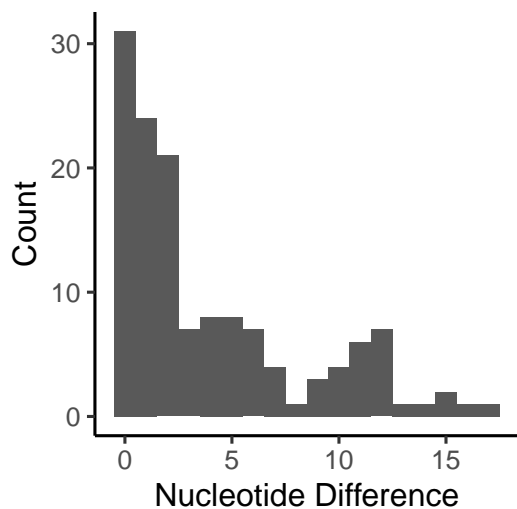
IGHV1-24*01

49 sequences assigned
No exact matches.



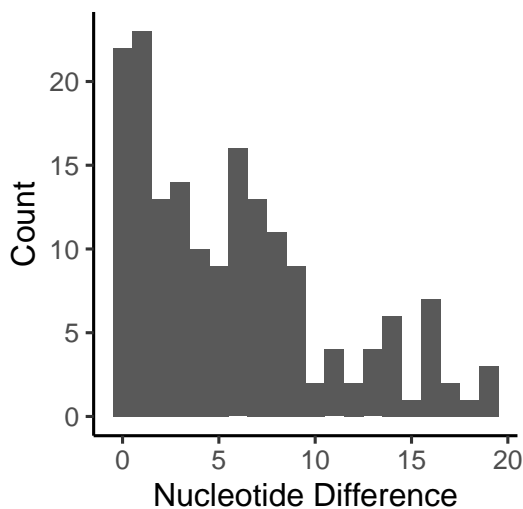
IGHV1-2*04

138 sequences assigned
31 (22.5%) exact matches, in which:
26 unique CDR3
6 unique J



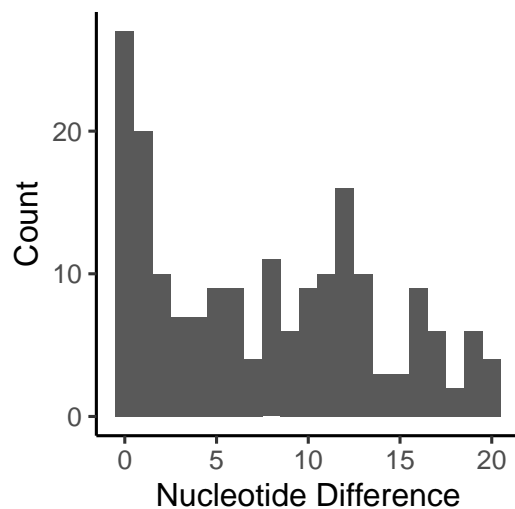
IGHV1-8*01

175 sequences assigned
22 (12.6%) exact matches, in which:
21 unique CDR3
5 unique J



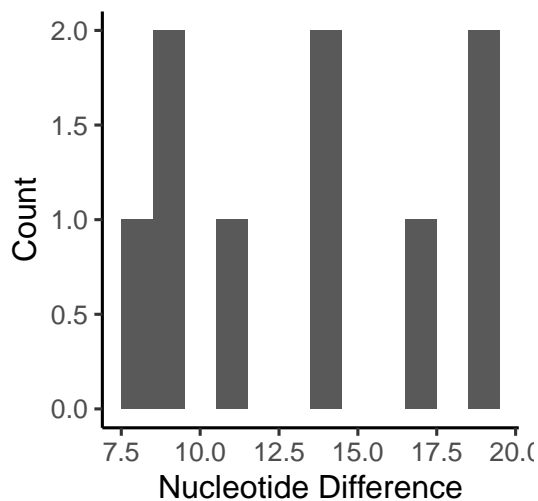
IGHV1-46*01

198 sequences assigned
27 (13.6%) exact matches, in which:
27 unique CDR3
4 unique J



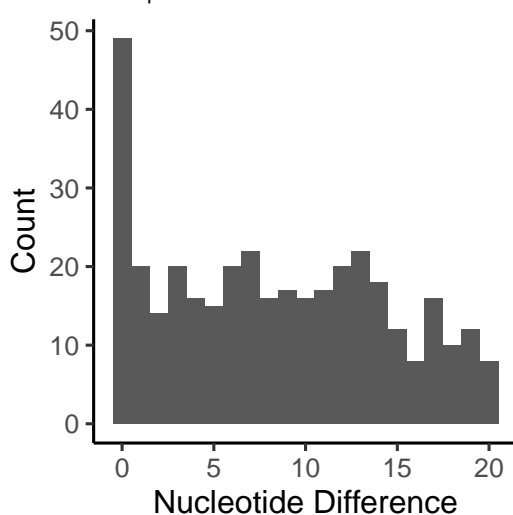
IGHV1-3*04

11 sequences assigned
No exact matches.



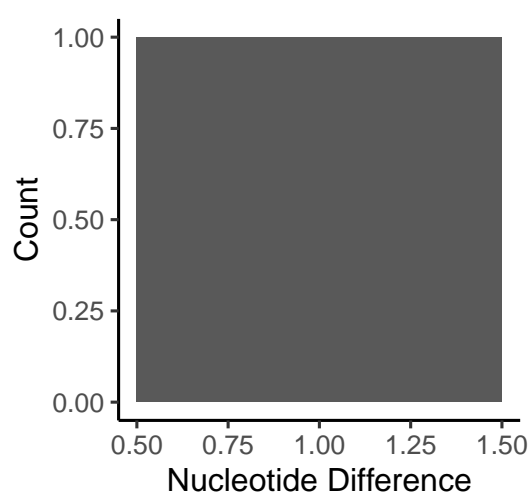
IGHV1-18*01

415 sequences assigned
49 (11.8%) exact matches, in which:
37 unique CDR3
6 unique J



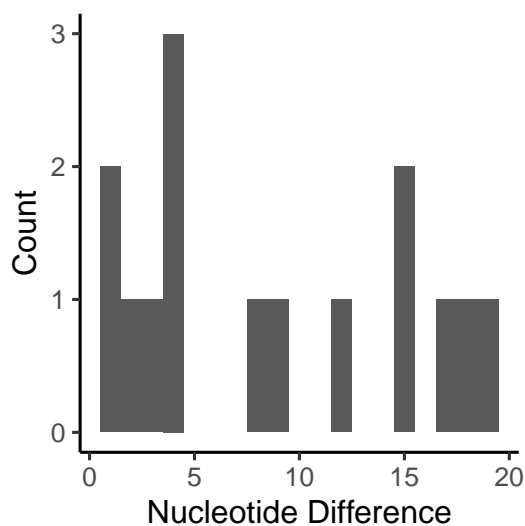
IGHV1-58*02

2 sequences assigned
No exact matches.



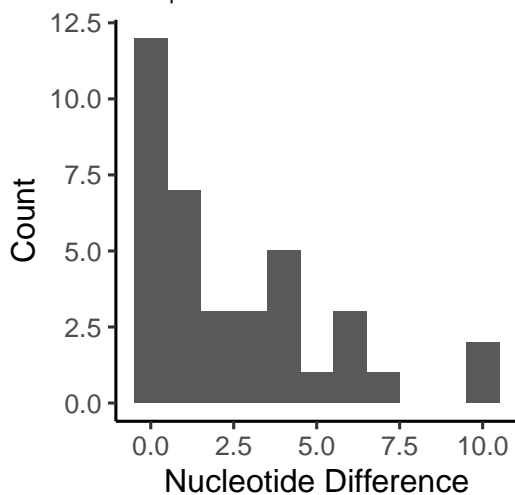
IGHV1-58*01_03

16 sequences assigned
No exact matches.



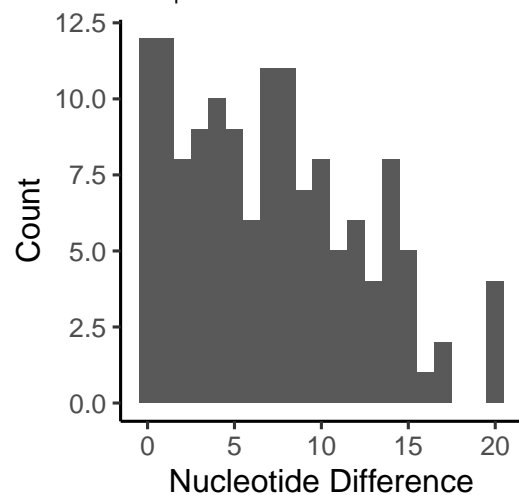
IGHV2-26*01

38 sequences assigned
12 (31.6%) exact matches, in which:
11 unique CDR3
4 unique J



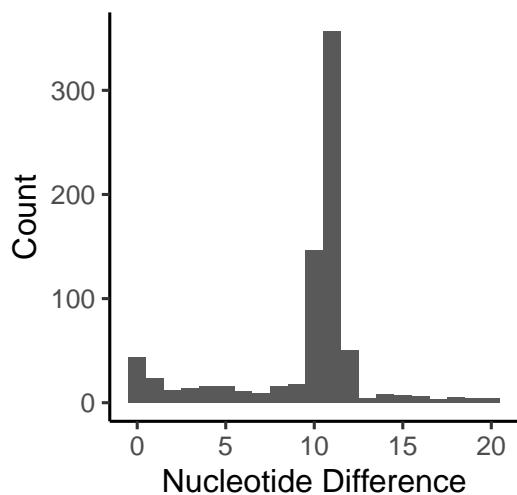
IGHV3-7*01

142 sequences assigned
12 (8.5%) exact matches, in which:
7 unique CDR3
2 unique J



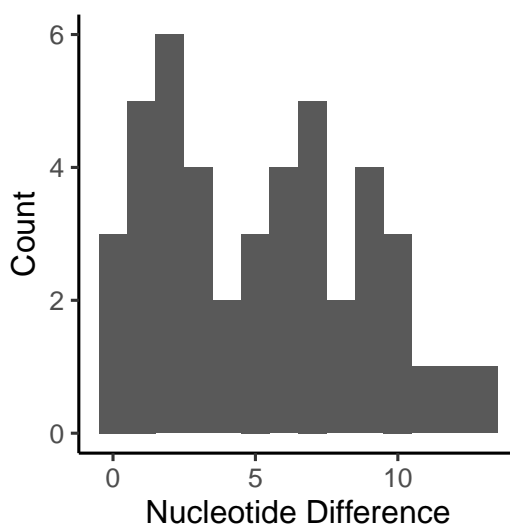
IGHV1-69*01_12_13

797 sequences assigned
44 (5.5%) exact matches, in which:
38 unique CDR3
6 unique J



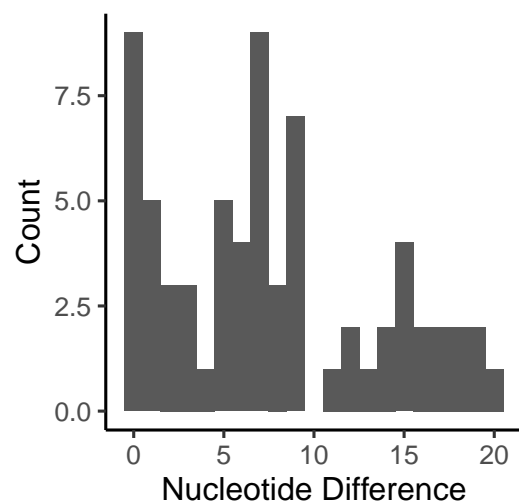
IGHV2-70*01

45 sequences assigned
3 (6.7%) exact matches, in which:
3 unique CDR3
2 unique J



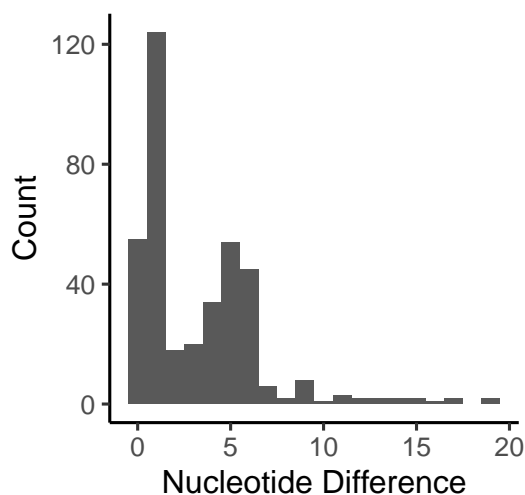
IGHV3-7*04

77 sequences assigned
9 (11.7%) exact matches, in which:
6 unique CDR3
4 unique J



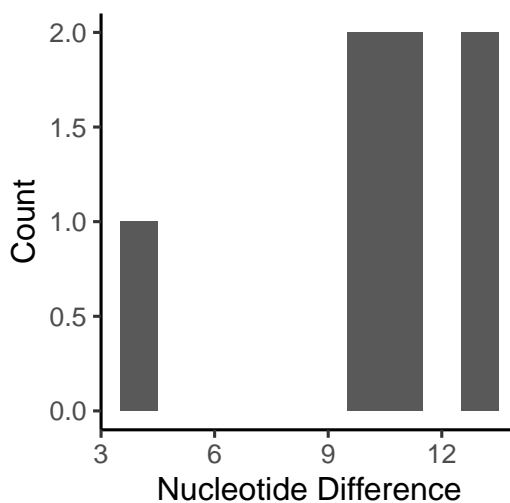
IGHV2-5*02

383 sequences assigned
55 (14.4%) exact matches, in which:
35 unique CDR3
6 unique J



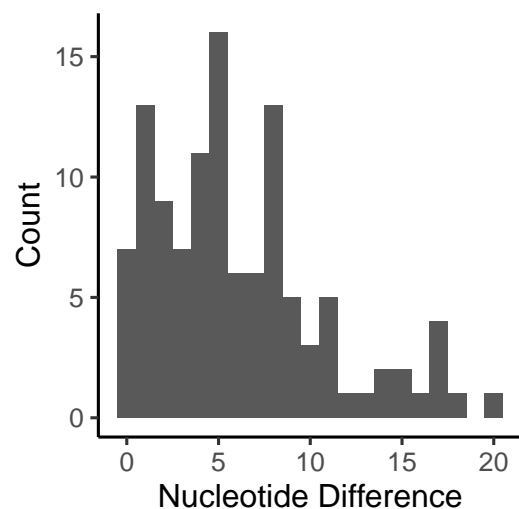
IGHV2-70*13

7 sequences assigned
No exact matches.



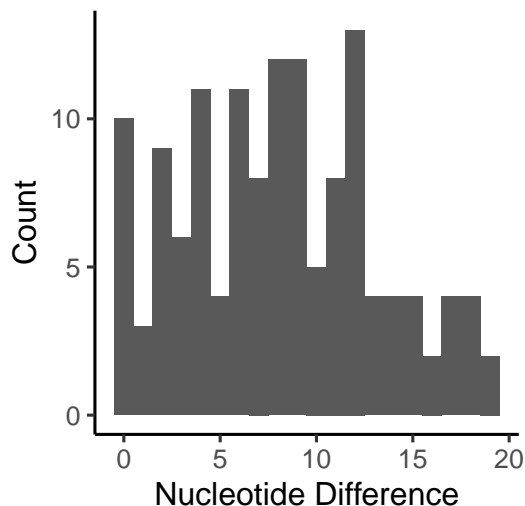
IGHV3-9*01

121 sequences assigned
7 (5.8%) exact matches, in which:
4 unique CDR3
2 unique J



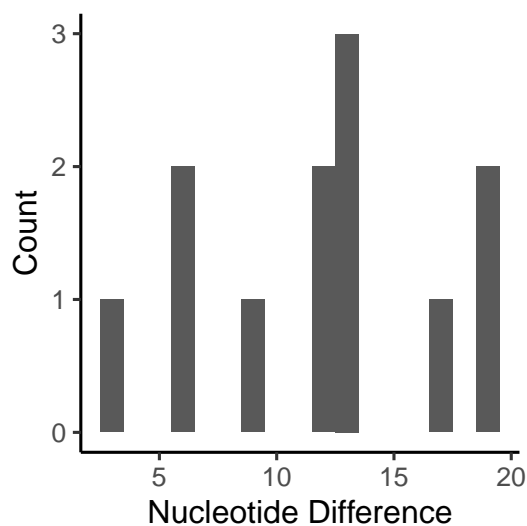
IGHV3-11*04

146 sequences assigned
10 (6.8%) exact matches, in which:
8 unique CDR3
4 unique J



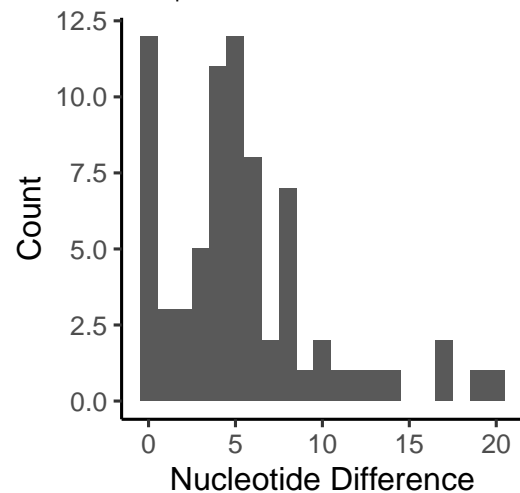
IGHV3-13*01

12 sequences assigned
No exact matches.



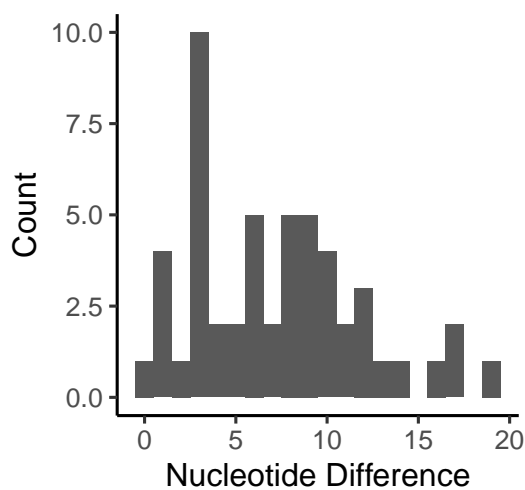
IGHV3-15*01_02

76 sequences assigned
12 (15.8%) exact matches, in which:
8 unique CDR3
5 unique J



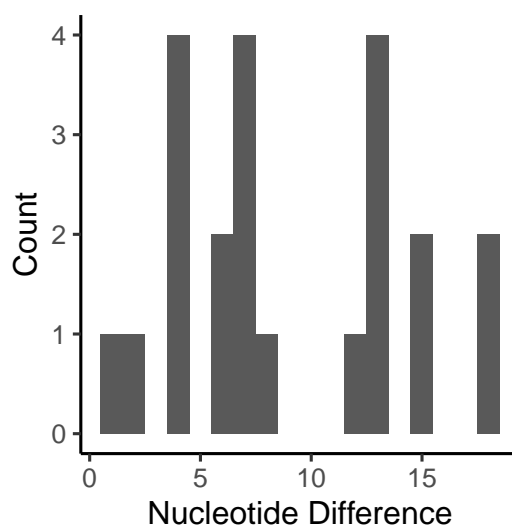
IGHV3-11*06

53 sequences assigned
1 (1.9%) exact matches, in which:
1 unique CDR3
1 unique J



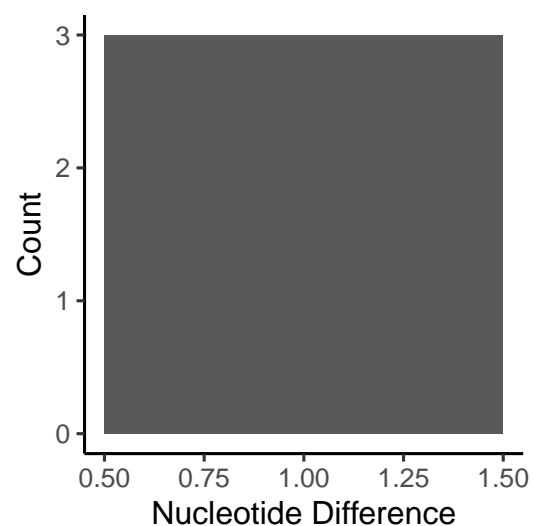
IGHV3-13*04

22 sequences assigned
No exact matches.



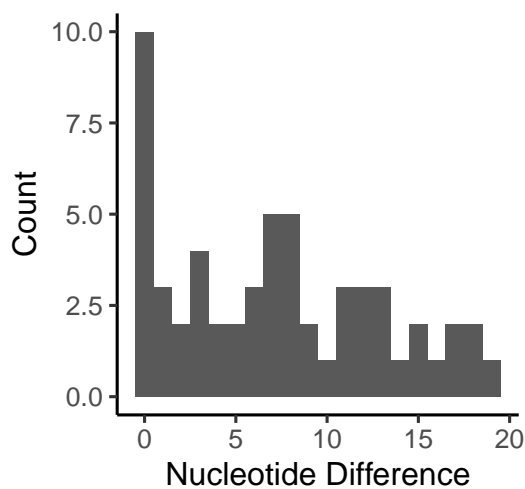
IGHV3-19*01

3 sequences assigned
No exact matches.



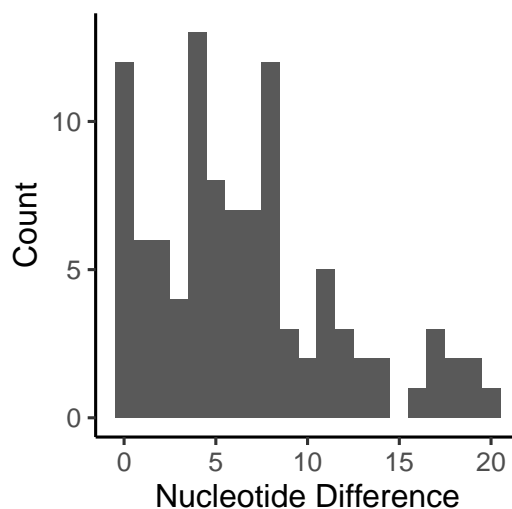
IGHV3-11*03_05

59 sequences assigned
10 (16.9%) exact matches, in which:
7 unique CDR3
3 unique J



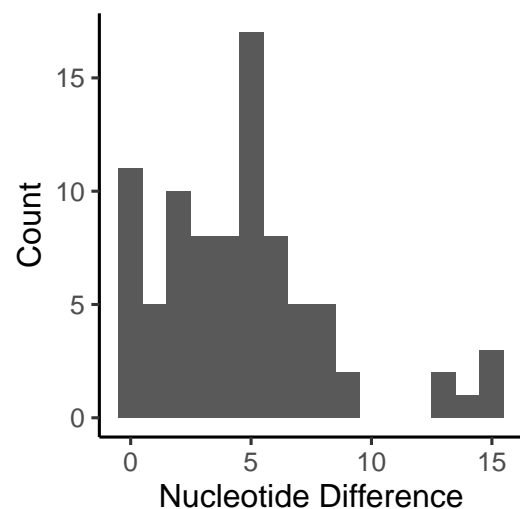
IGHV3-15*07

102 sequences assigned
12 (11.8%) exact matches, in which:
8 unique CDR3
1 unique J



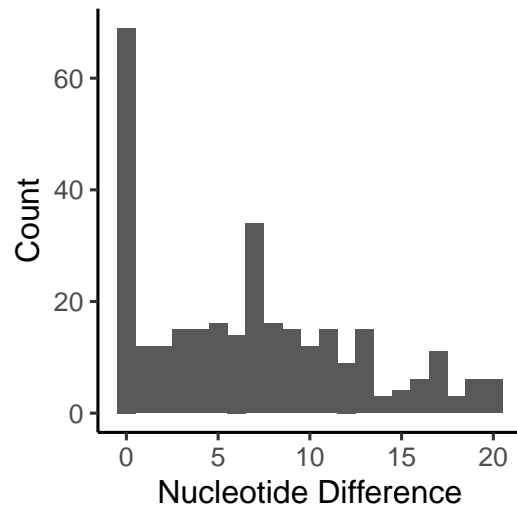
IGHV3-20*03_04

86 sequences assigned
11 (12.8%) exact matches, in which:
7 unique CDR3
3 unique J



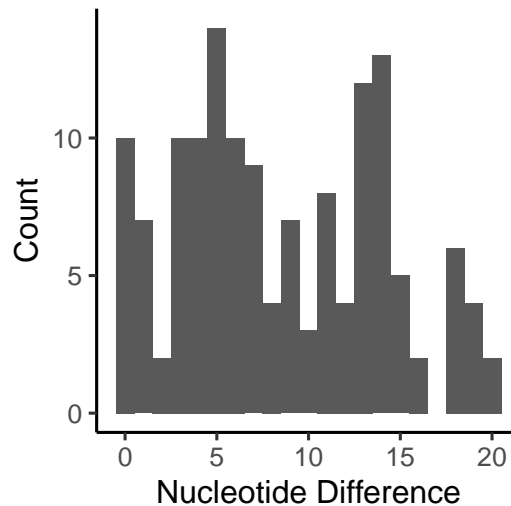
IGHV3-21*01_02

323 sequences assigned
69 (21.4%) exact matches, in which:
41 unique CDR3
5 unique J



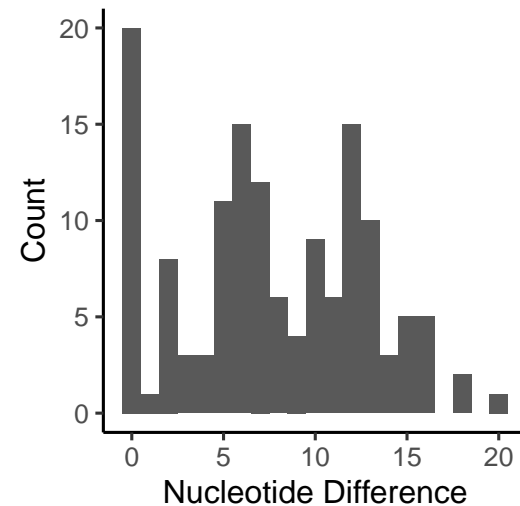
IGHV3-33*01

150 sequences assigned
10 (6.7%) exact matches, in which:
7 unique CDR3
4 unique J



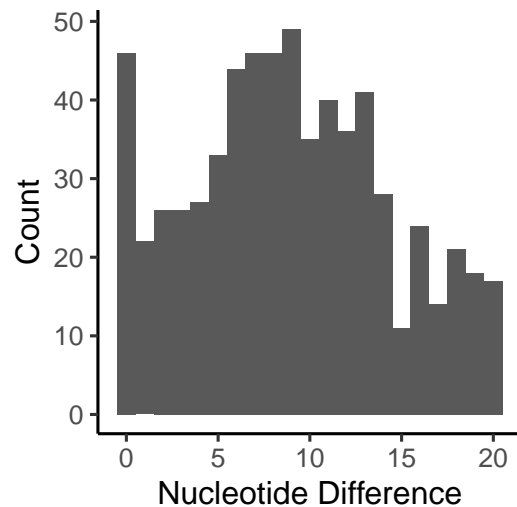
IGHV3-48*01

146 sequences assigned
20 (13.7%) exact matches, in which:
13 unique CDR3
6 unique J



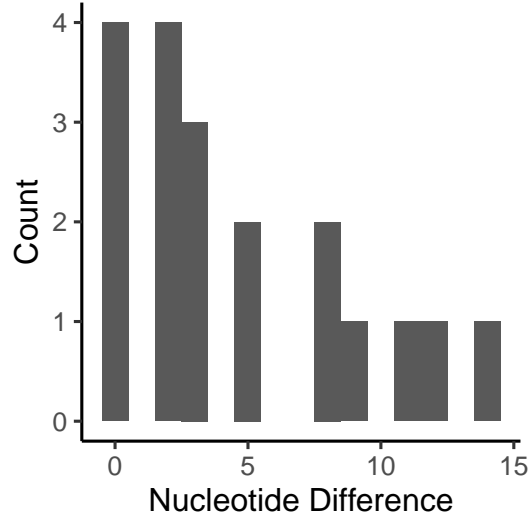
IGHV3-23*01_04

712 sequences assigned
46 (6.5%) exact matches, in which:
31 unique CDR3
4 unique J



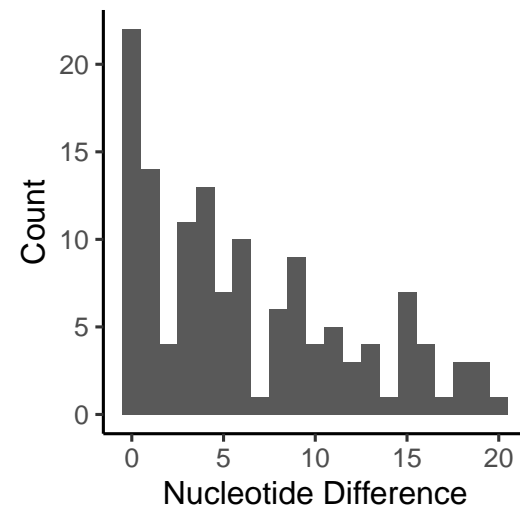
IGHV3-43*01

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



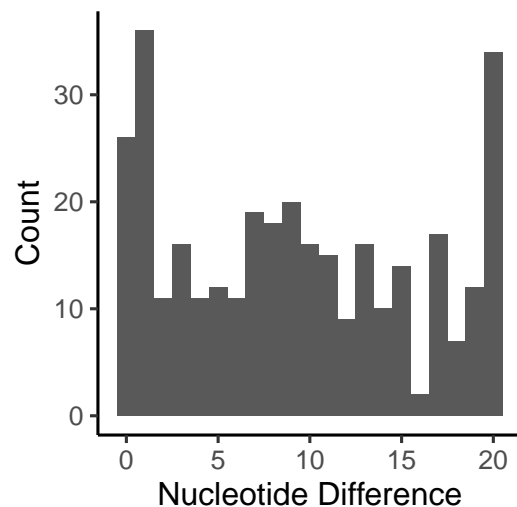
IGHV3-48*02

141 sequences assigned
22 (15.6%) exact matches, in which:
13 unique CDR3
4 unique J



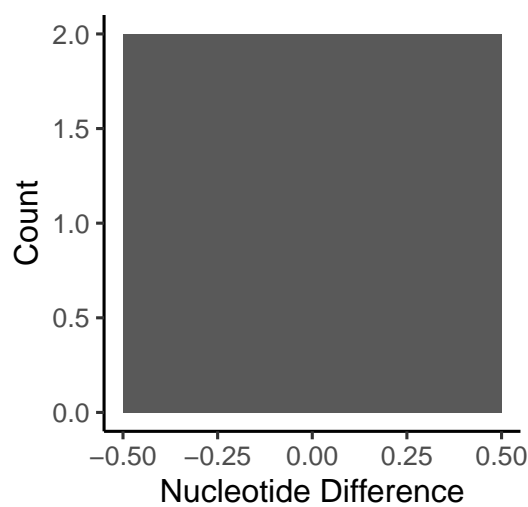
IGHV3-30-3*01

422 sequences assigned
26 (6.2%) exact matches, in which:
17 unique CDR3
4 unique J



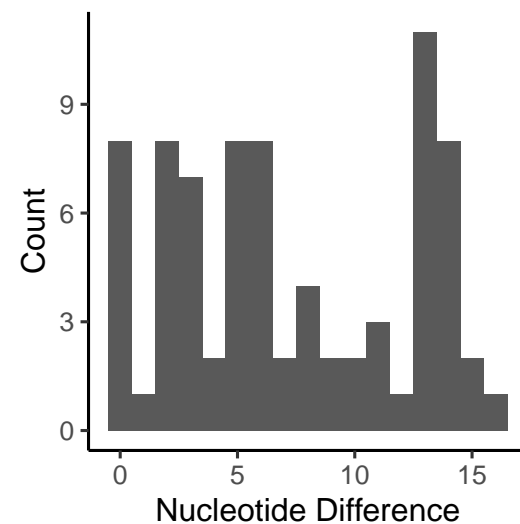
IGHV3-47*02

2 sequences assigned
2 (100%) exact matches, in which:
1 unique CDR3
1 unique J



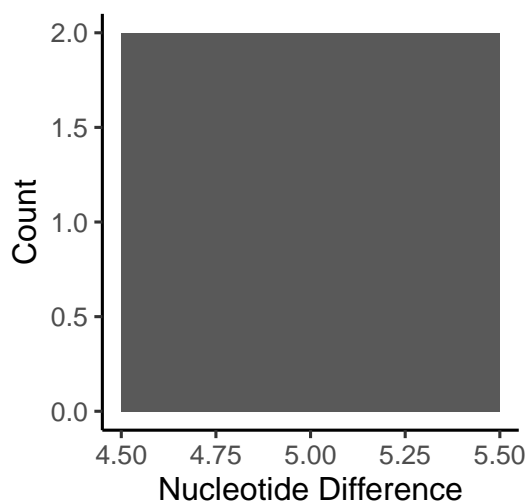
IGHV3-49*03_05

80 sequences assigned
8 (10%) exact matches, in which:
5 unique CDR3
3 unique J



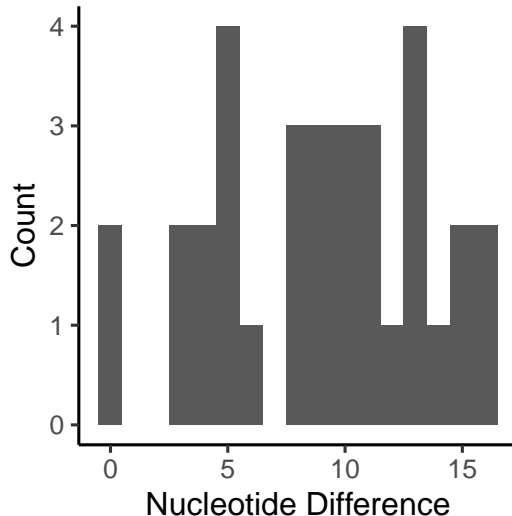
IGHV3-52*01_03

2 sequences assigned
No exact matches.



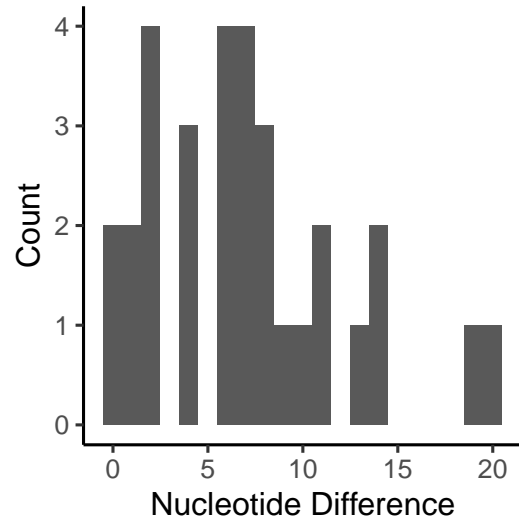
IGHV3-66*02

33 sequences assigned
2 (6.1%) exact matches, in which:
1 unique CDR3
1 unique J



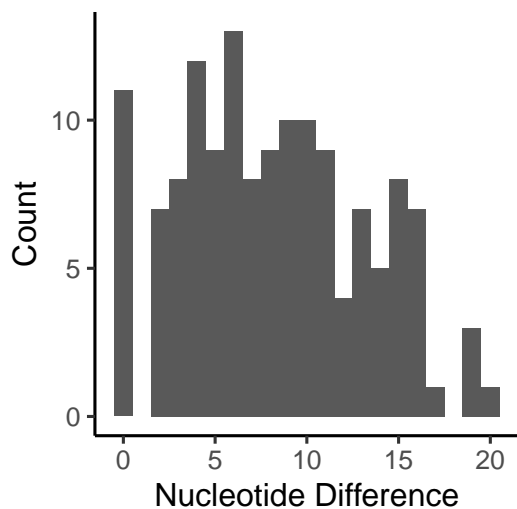
IGHV3-73*01_02

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



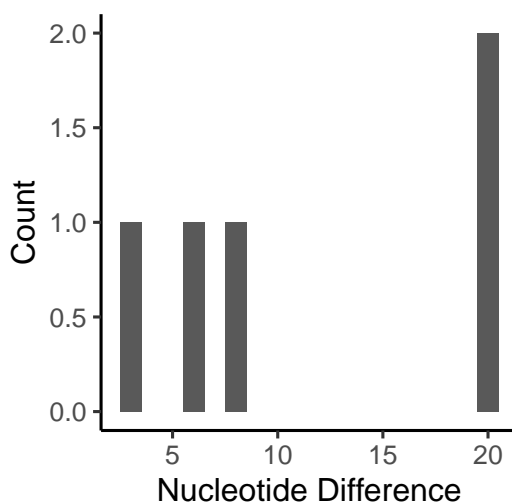
IGHV3-53*01_02

152 sequences assigned
11 (7.2%) exact matches, in which:
7 unique CDR3
2 unique J



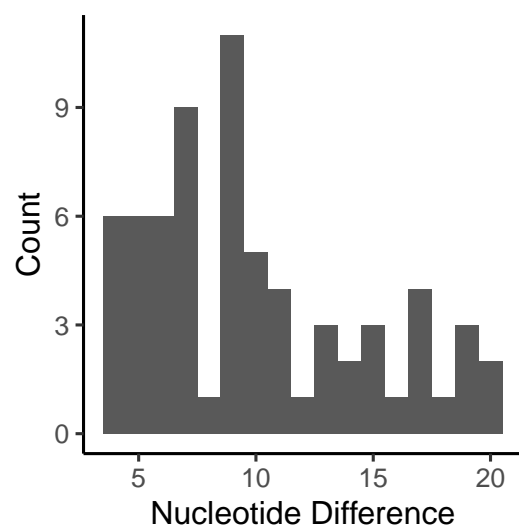
IGHV3-66*03

5 sequences assigned
No exact matches.



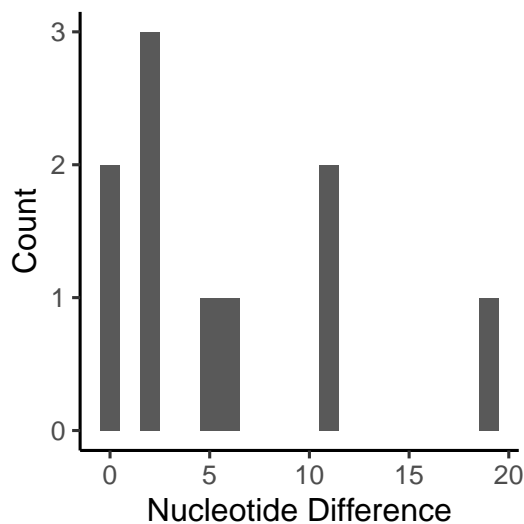
IGHV3-74*03

80 sequences assigned
No exact matches.



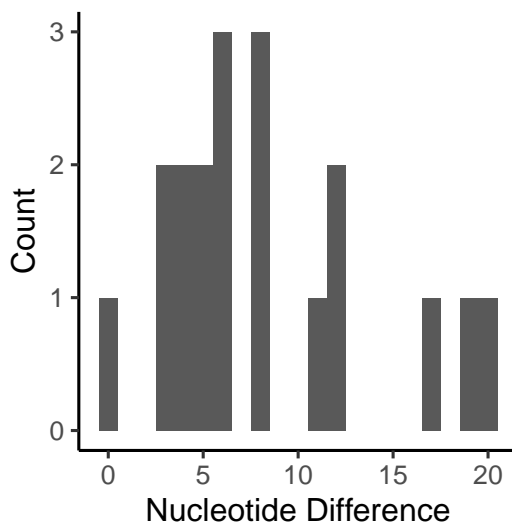
IGHV3-64*01

10 sequences assigned
2 (20%) exact matches, in which:
1 unique CDR3
1 unique J



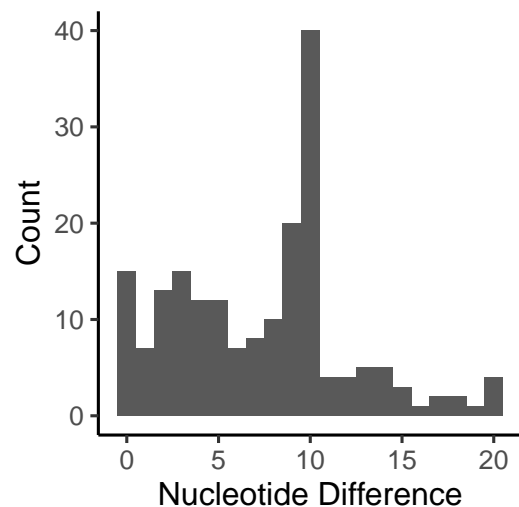
IGHV3-72*01

21 sequences assigned
1 (4.8%) exact matches, in which:
1 unique CDR3
1 unique J



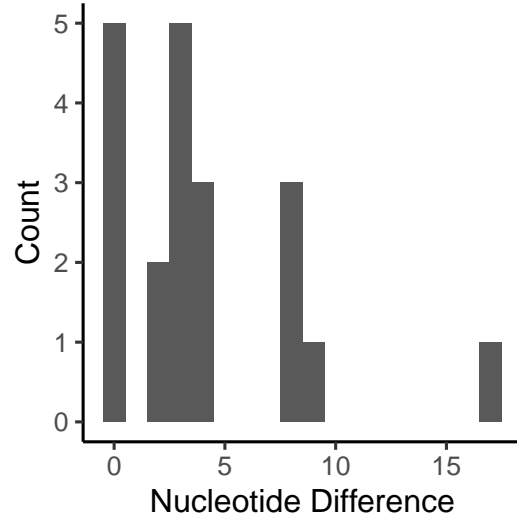
IGHV3-74*01_02

193 sequences assigned
15 (7.8%) exact matches, in which:
9 unique CDR3
3 unique J



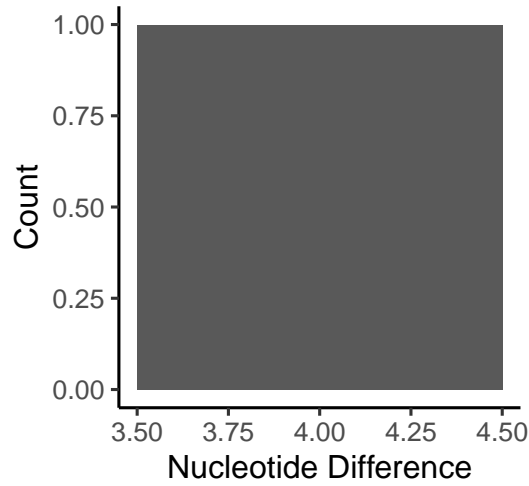
IGHV3-43D*03

22 sequences assigned
5 (22.7%) exact matches, in which:
3 unique CDR3
2 unique J



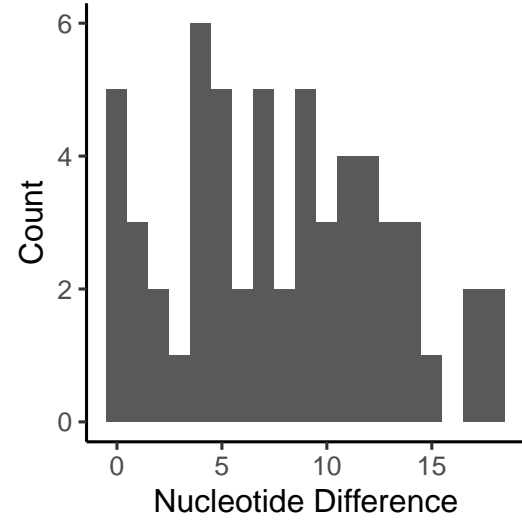
IGHV4-28*03

1 sequences assigned
No exact matches.



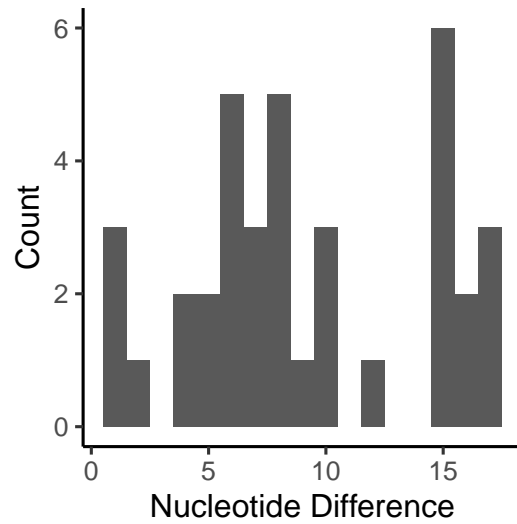
IGHV4-30-2*01

64 sequences assigned
5 (7.8%) exact matches, in which:
3 unique CDR3
3 unique J



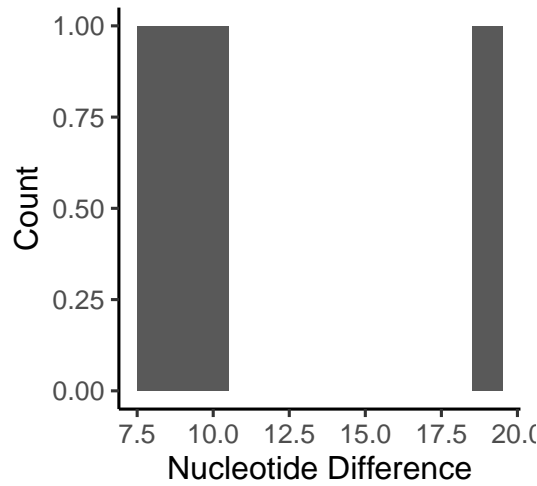
IGHV3-64D*06

50 sequences assigned
No exact matches.



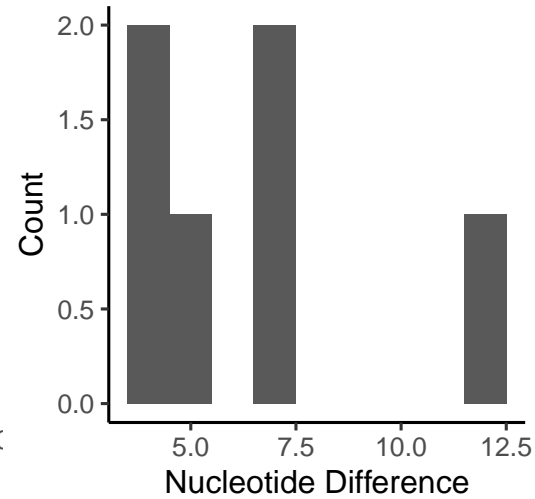
IGHV4-28*01_07

4 sequences assigned
No exact matches.



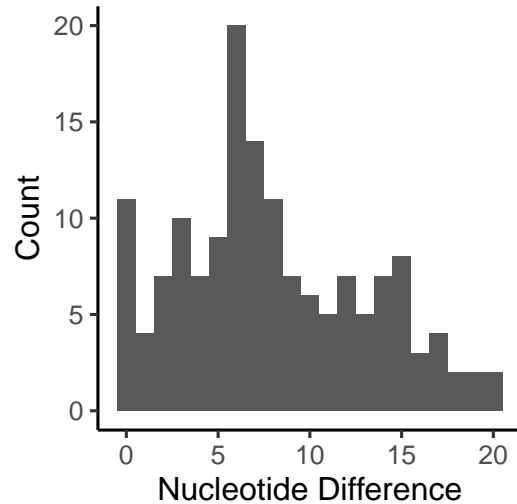
IGHV4-30-2*03

6 sequences assigned
No exact matches.



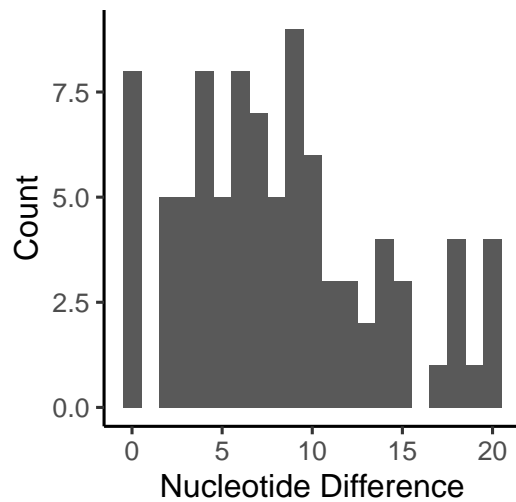
IGHV4-4*02_03

163 sequences assigned
11 (6.7%) exact matches, in which:
8 unique CDR3
3 unique J



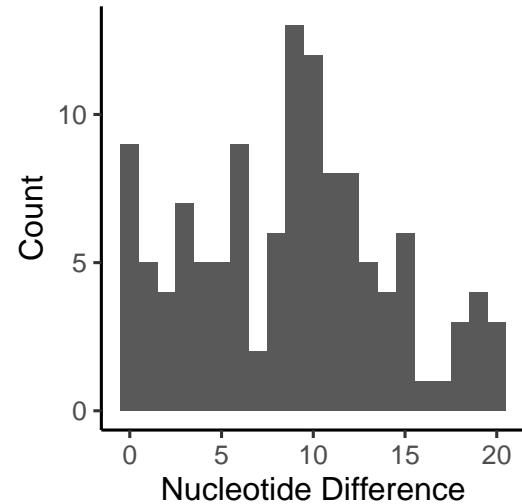
IGHV4-30-4*01

95 sequences assigned
8 (8.4%) exact matches, in which:
7 unique CDR3
3 unique J



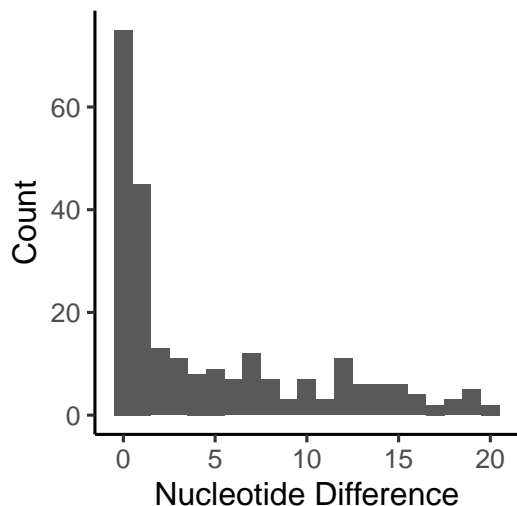
IGHV4-31*02

137 sequences assigned
9 (6.6%) exact matches, in which:
7 unique CDR3
3 unique J



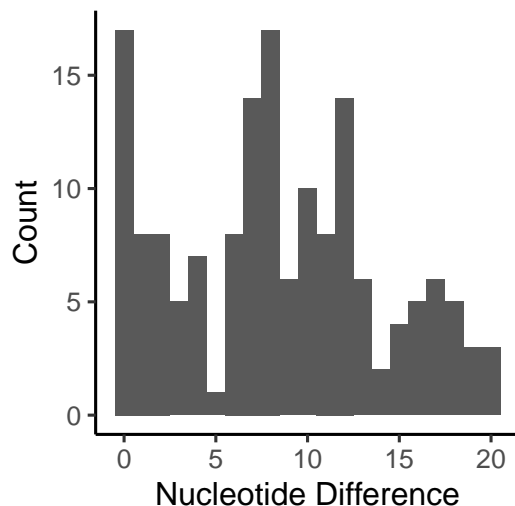
IGHV4-34*01_02

262 sequences assigned
75 (28.6%) exact matches, in which:
58 unique CDR3
7 unique J



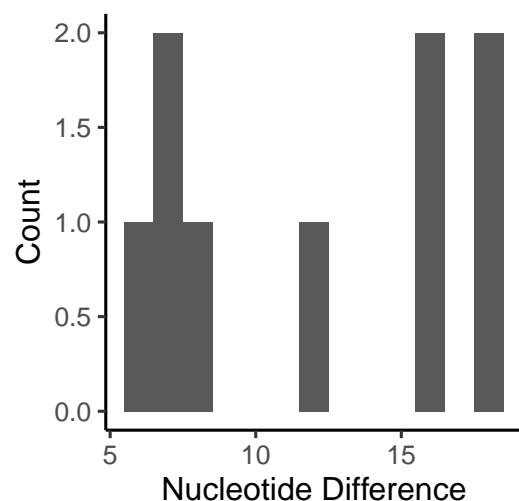
IGHV4-39*07

184 sequences assigned
17 (9.2%) exact matches, in which:
14 unique CDR3
4 unique J



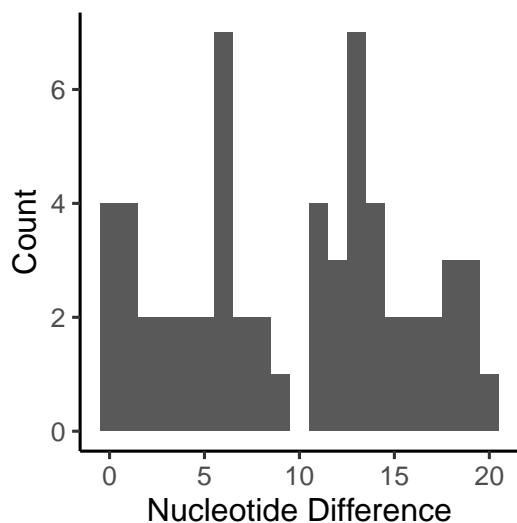
IGHV4-59*13

12 sequences assigned
No exact matches.



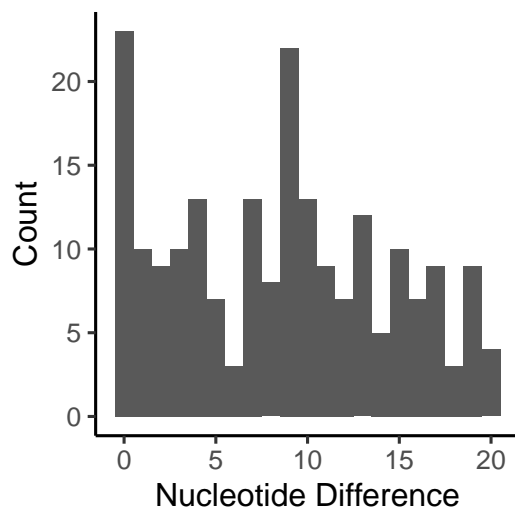
IGHV4-38-2*02

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



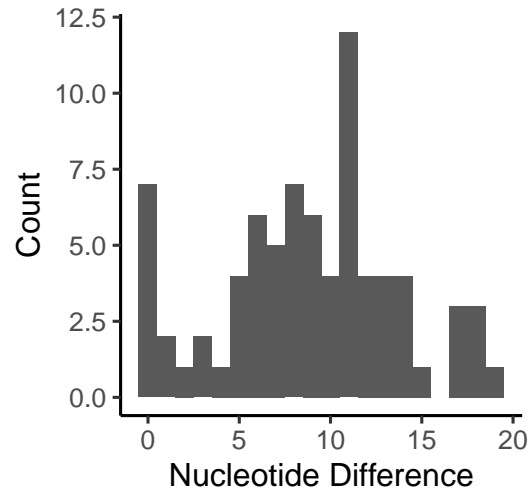
IGHV4-59*01_07

220 sequences assigned
23 (10.5%) exact matches, in which:
22 unique CDR3
6 unique J



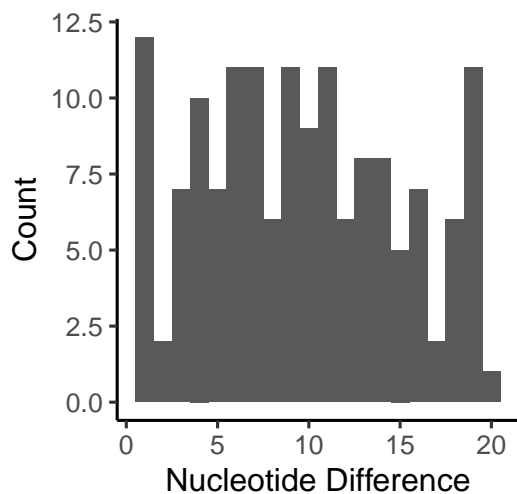
IGHV4-61*01

85 sequences assigned
7 (8.2%) exact matches, in which:
6 unique CDR3
4 unique J



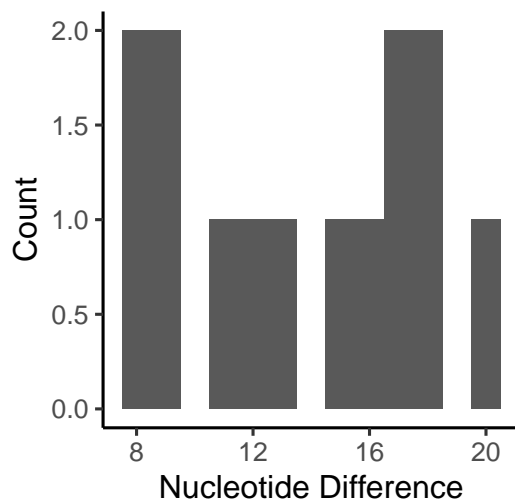
IGHV4-39*02

199 sequences assigned
No exact matches.



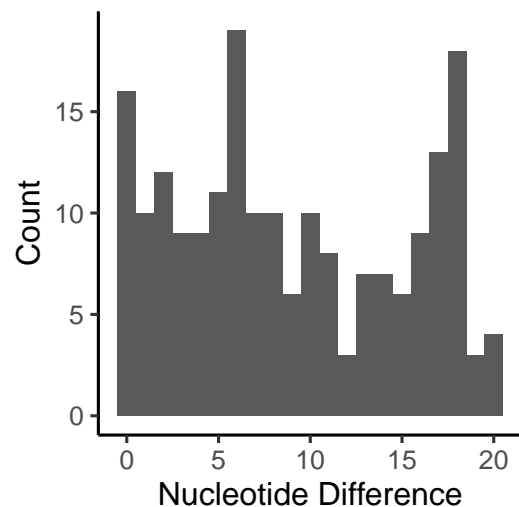
IGHV4-59*11

19 sequences assigned
No exact matches.



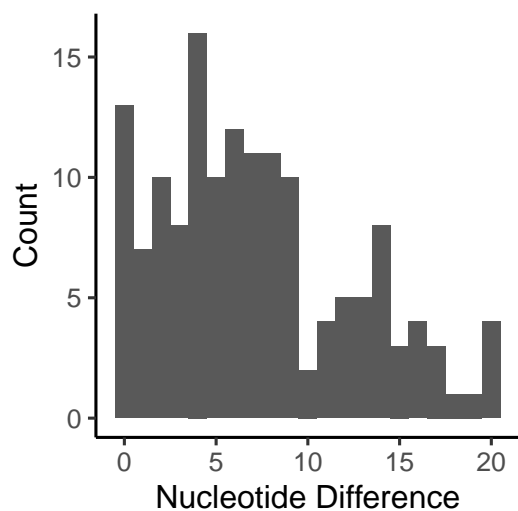
IGHV4-61*02

212 sequences assigned
16 (7.5%) exact matches, in which:
15 unique CDR3
5 unique J



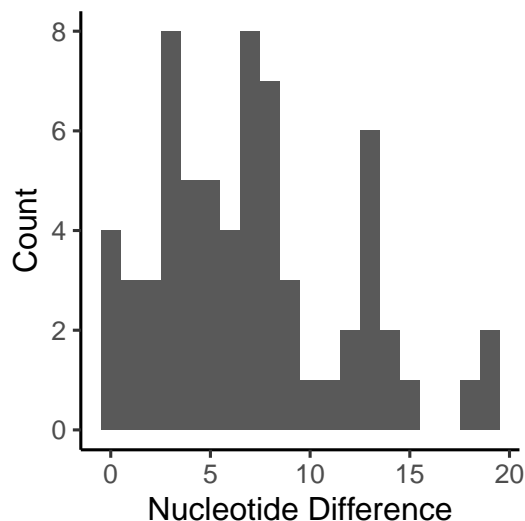
IGHV5-10-1*01_03

154 sequences assigned
13 (8.4%) exact matches, in which:
9 unique CDR3
3 unique J



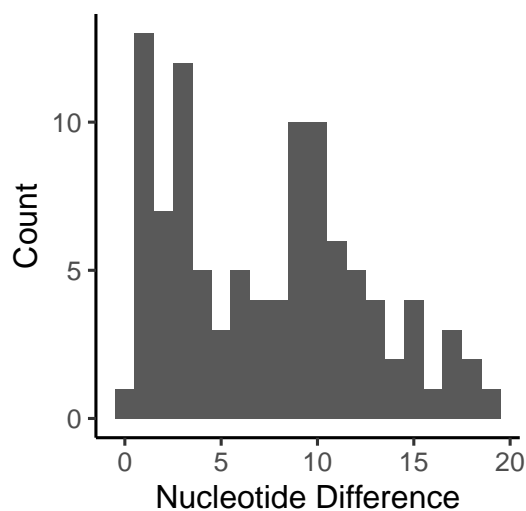
IGHV6-1*01_02

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



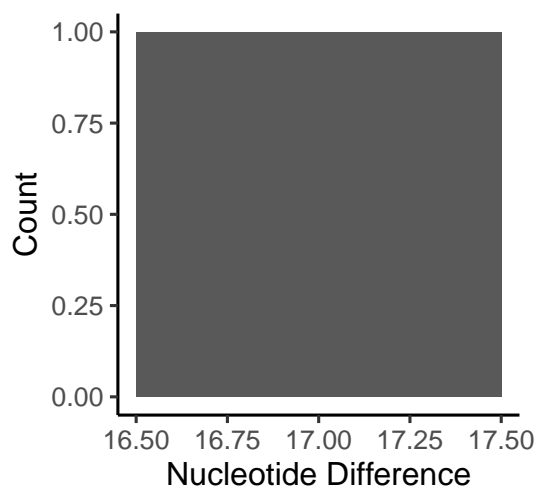
IGHV5-51*07

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



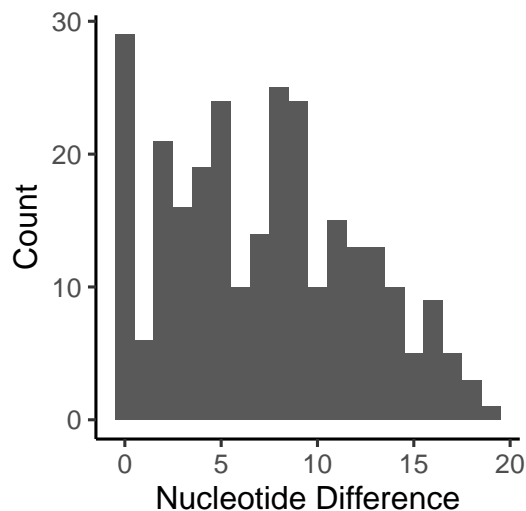
IGHV7-4-1*01

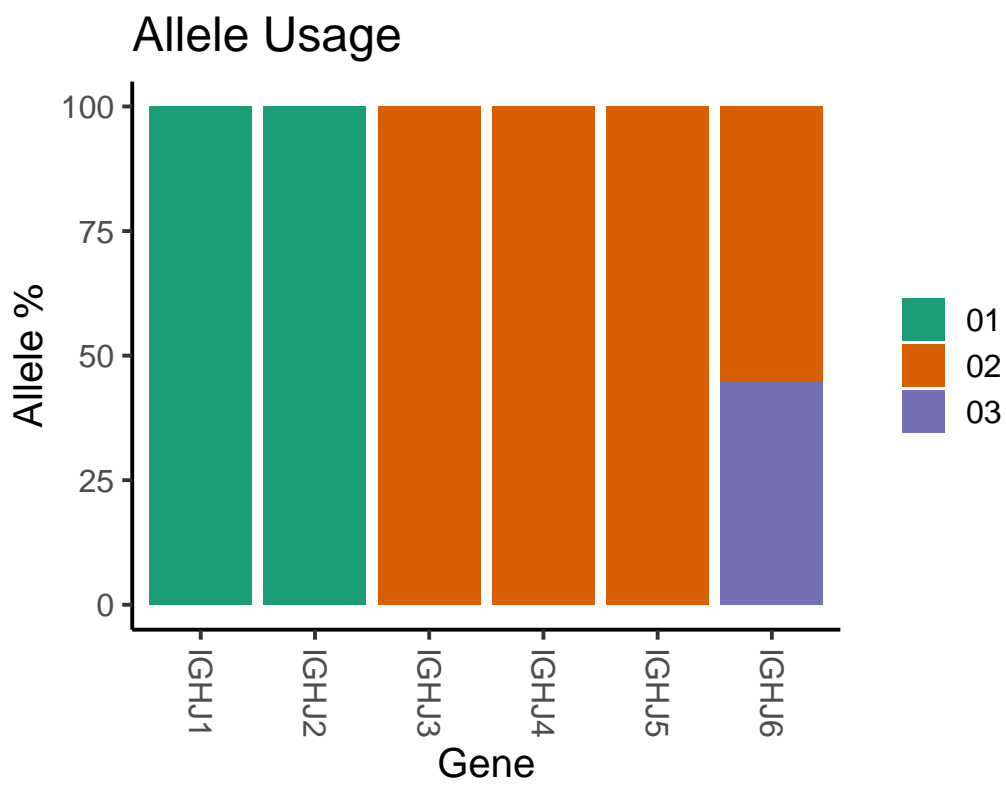
1 sequences assigned
No exact matches.



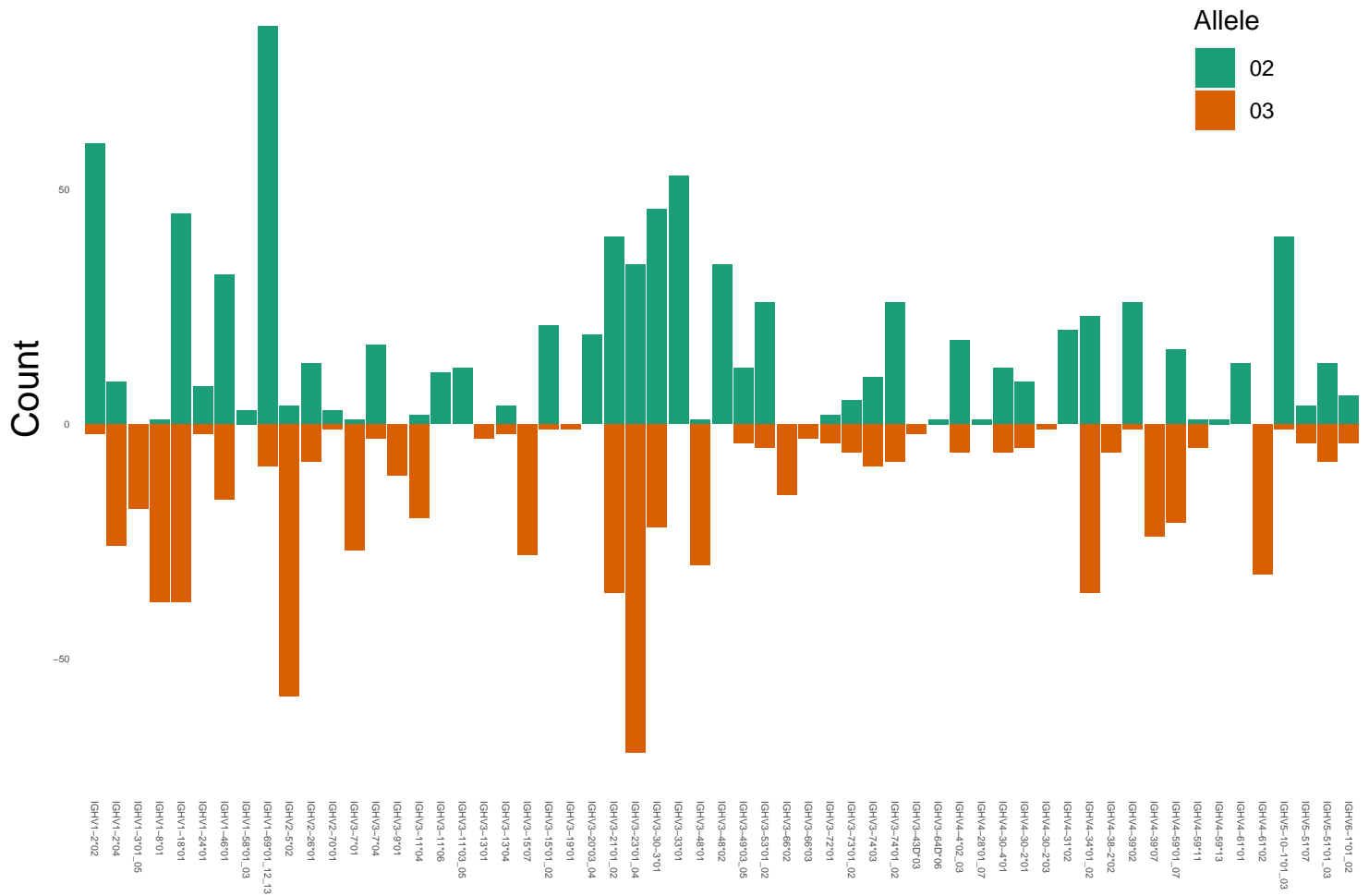
IGHV5-51*01_03

300 sequences assigned
29 (9.7%) exact matches, in which:
19 unique CDR3
5 unique J





Sequence Count byIGHJ6 allele usage



Warning – no inferred sequences found.