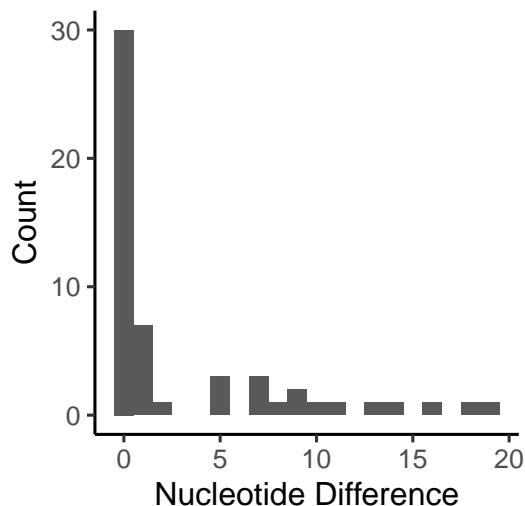


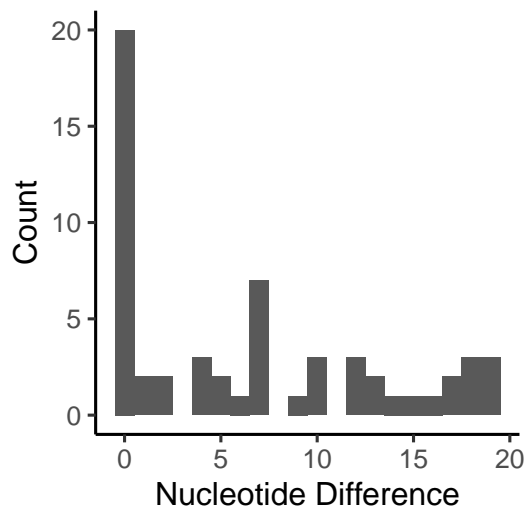
IGHV1-2*04

64 sequences assigned
30 (46.9%) exact matches, in which:
30 unique CDR3
6 unique J



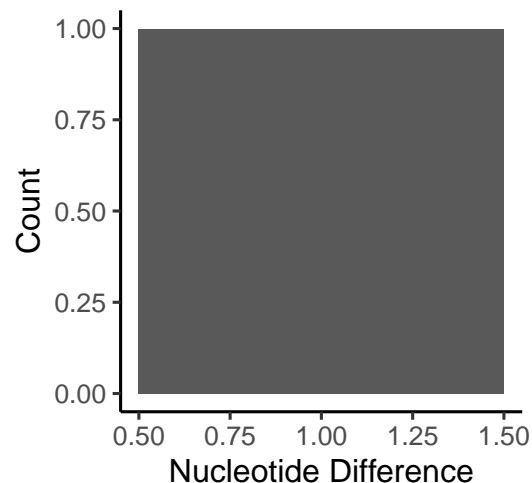
IGHV1-8*01

64 sequences assigned
20 (31.2%) exact matches, in which:
20 unique CDR3
4 unique J



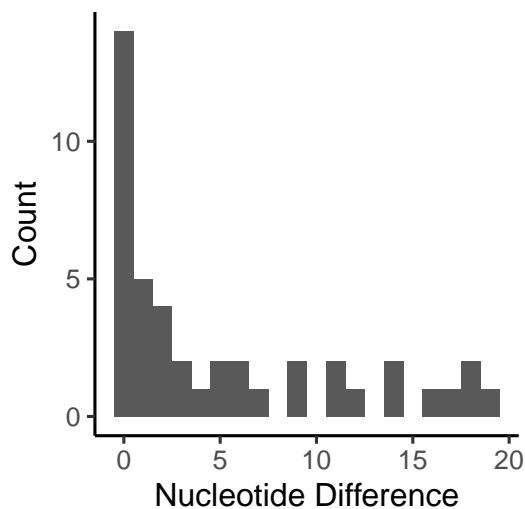
IGHV1-45*02

1 sequences assigned
No exact matches.



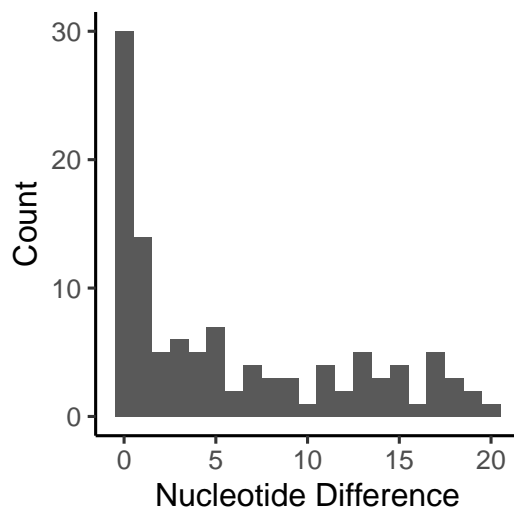
IGHV1-3*01

121 sequences assigned
14 (11.6%) exact matches, in which:
14 unique CDR3
4 unique J



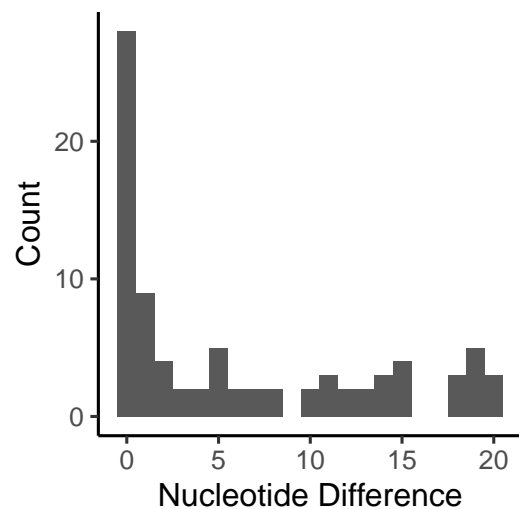
IGHV1-18*01

162 sequences assigned
30 (18.5%) exact matches, in which:
30 unique CDR3
4 unique J



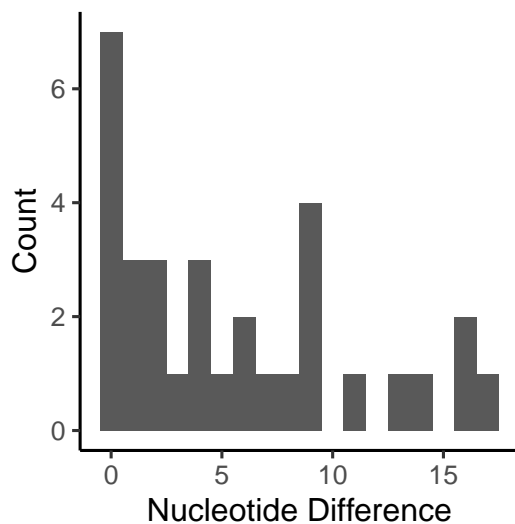
IGHV1-46*01

137 sequences assigned
28 (20.4%) exact matches, in which:
28 unique CDR3
5 unique J



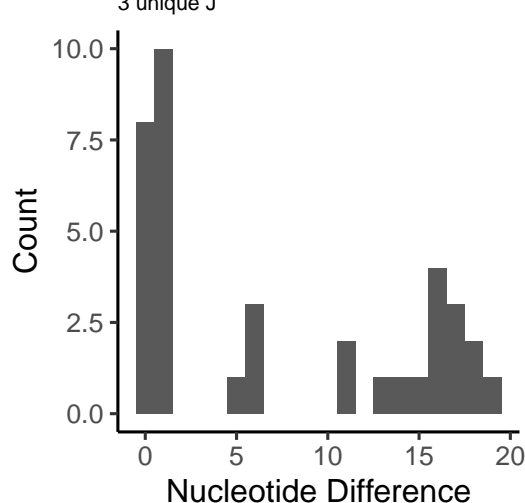
IGHV1-3*05

41 sequences assigned
7 (17.1%) exact matches, in which:
7 unique CDR3
4 unique J



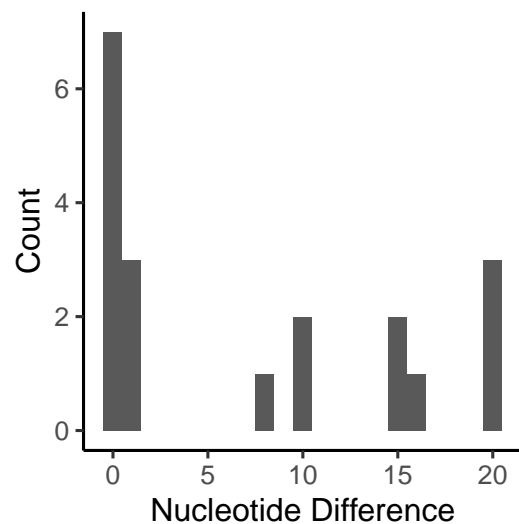
IGHV1-24*01

56 sequences assigned
8 (14.3%) exact matches, in which:
8 unique CDR3
3 unique J



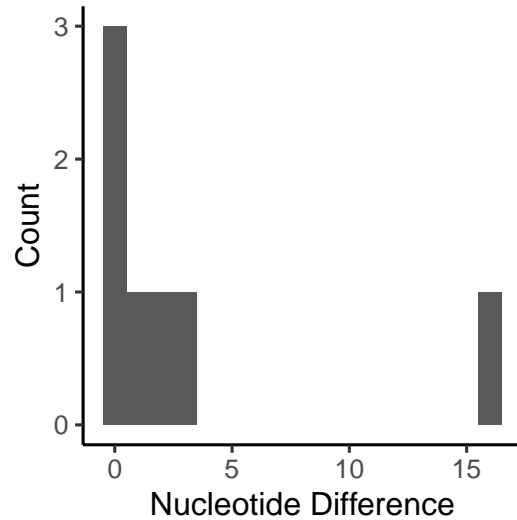
IGHV1-58*01

21 sequences assigned
7 (33.3%) exact matches, in which:
7 unique CDR3
3 unique J



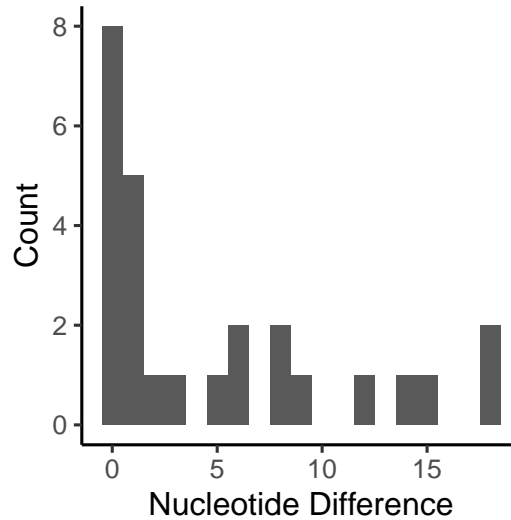
IGHV1-69-2*01

18 sequences assigned
3 (16.7%) exact matches, in which:
3 unique CDR3
1 unique J



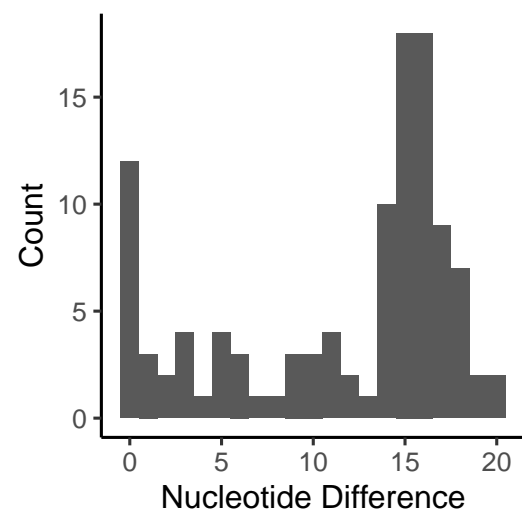
IGHV2-26*01

28 sequences assigned
8 (28.6%) exact matches, in which:
8 unique CDR3
3 unique J



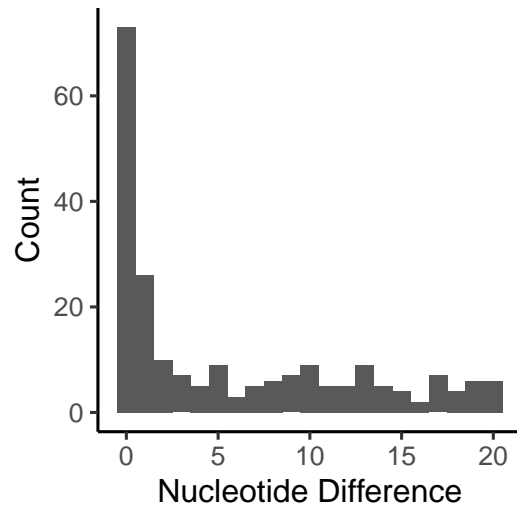
IGHV3-7*03

148 sequences assigned
12 (8.1%) exact matches, in which:
12 unique CDR3
5 unique J



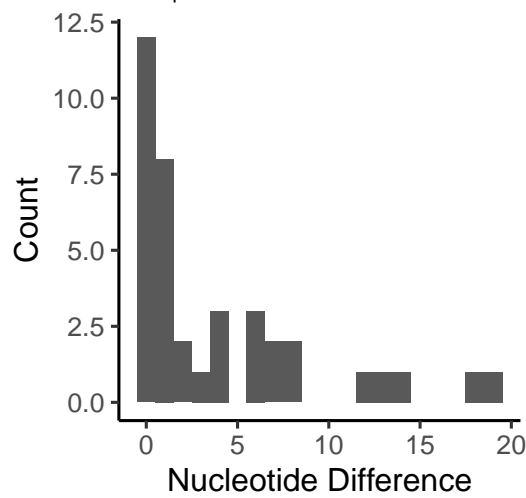
IGHV1-69*06

308 sequences assigned
73 (23.7%) exact matches, in which:
73 unique CDR3
6 unique J



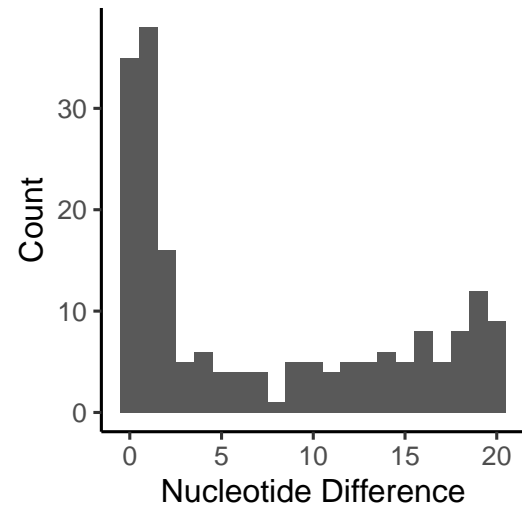
IGHV2-70*01

40 sequences assigned
12 (30%) exact matches, in which:
11 unique CDR3
5 unique J



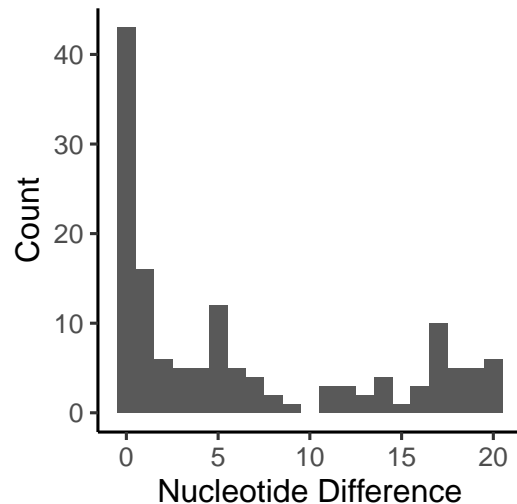
IGHV3-9*01

280 sequences assigned
35 (12.5%) exact matches, in which:
35 unique CDR3
6 unique J



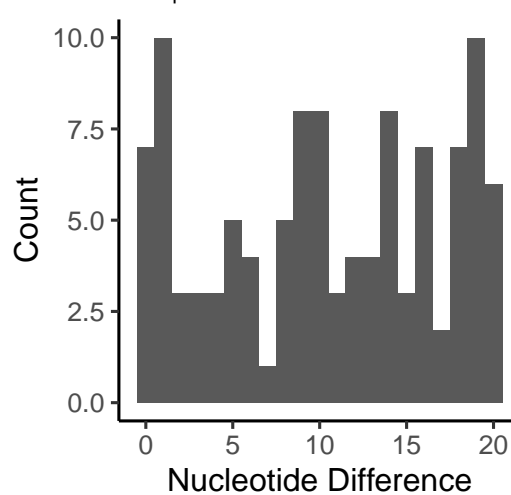
IGHV2-5*02

190 sequences assigned
43 (22.6%) exact matches, in which:
42 unique CDR3
6 unique J



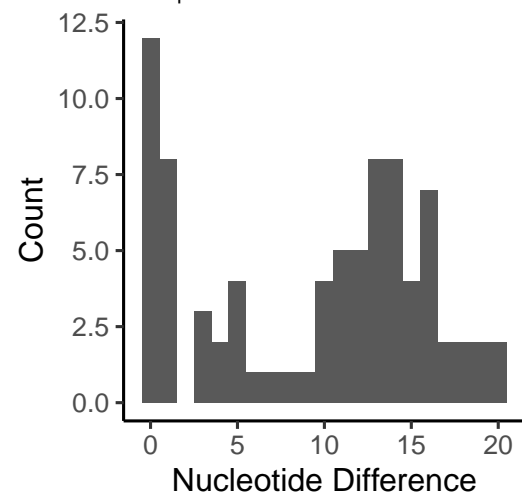
IGHV3-7*01

178 sequences assigned
7 (3.9%) exact matches, in which:
7 unique CDR3
4 unique J



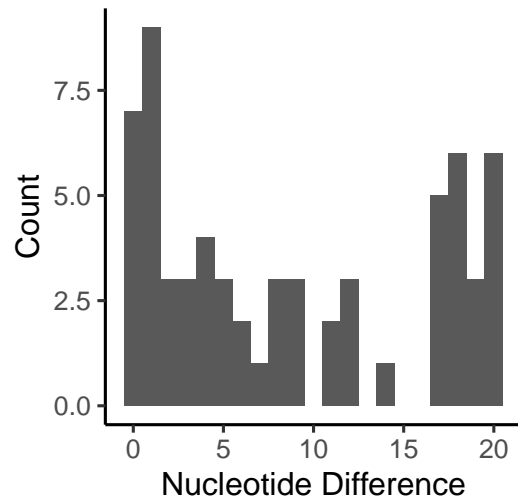
IGHV3-11*01

105 sequences assigned
12 (11.4%) exact matches, in which:
12 unique CDR3
5 unique J



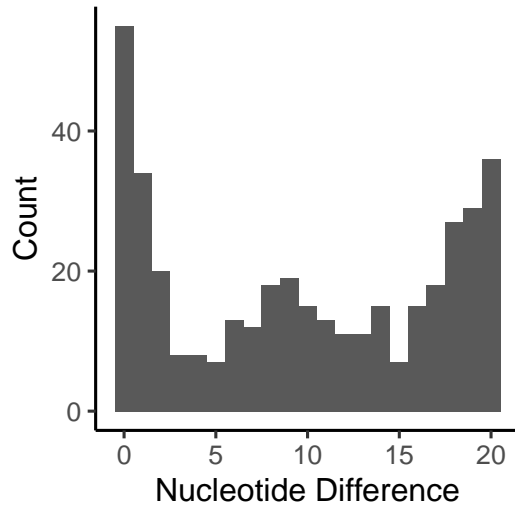
IGHV3-11*06

97 sequences assigned
7 (7.2%) exact matches, in which:
7 unique CDR3
4 unique J



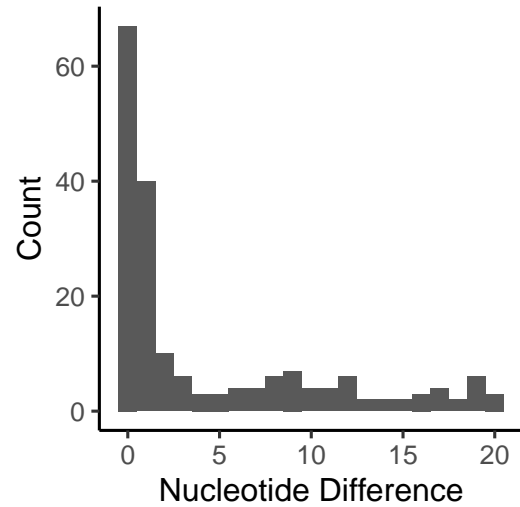
IGHV3-15*07

602 sequences assigned
55 (9.1%) exact matches, in which:
54 unique CDR3
6 unique J



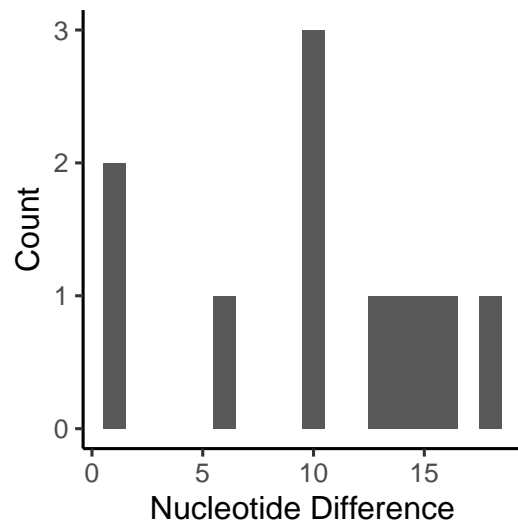
IGHV3-21*01

242 sequences assigned
67 (27.7%) exact matches, in which:
66 unique CDR3
6 unique J



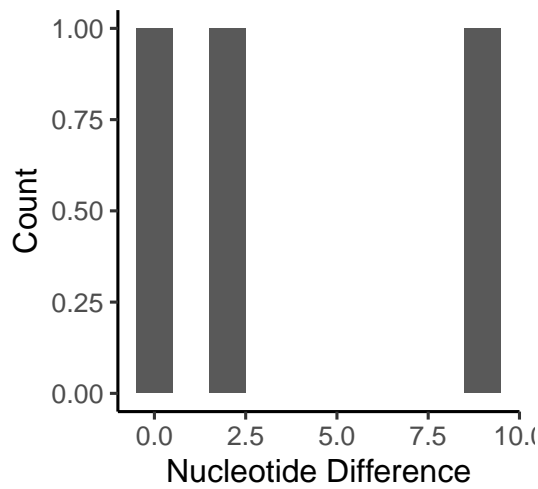
IGHV3-13*01

15 sequences assigned
No exact matches.



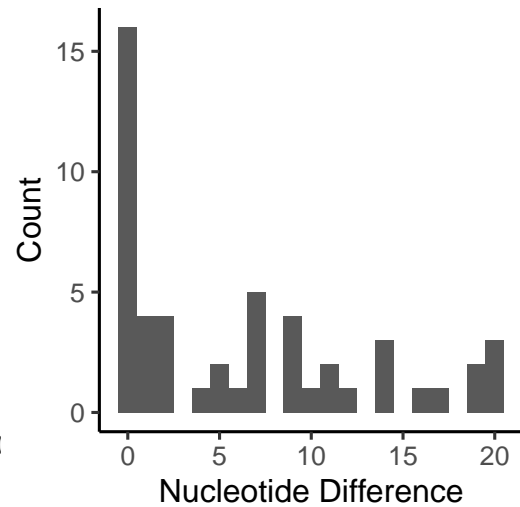
IGHV3-20*01

3 sequences assigned
1 (33.3%) exact matches, in which:
1 unique CDR3
1 unique J



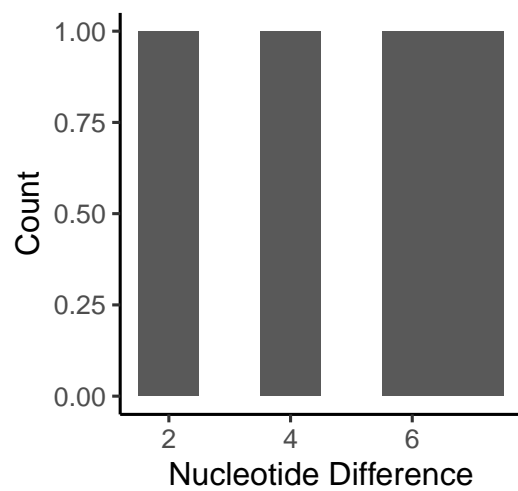
IGHV3-21*01_A152G

67 sequences assigned
16 (23.9%) exact matches, in which:
16 unique CDR3
4 unique J



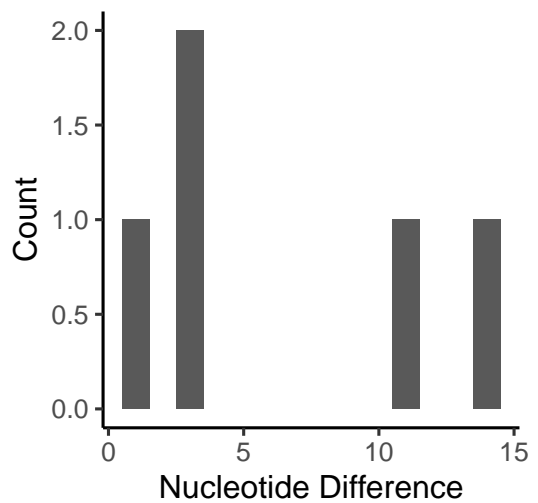
IGHV3-13*05

4 sequences assigned
No exact matches.



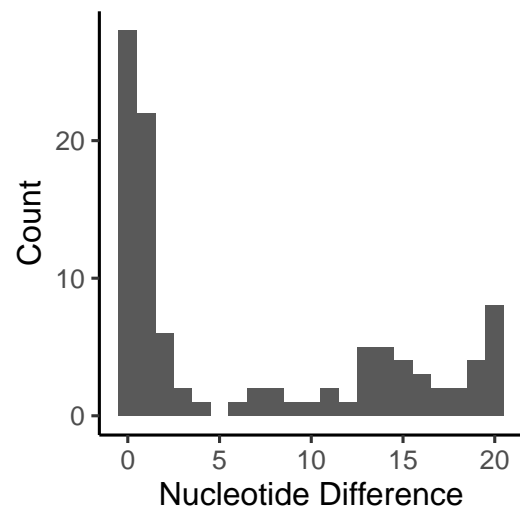
IGHV3-20*04

7 sequences assigned
No exact matches.



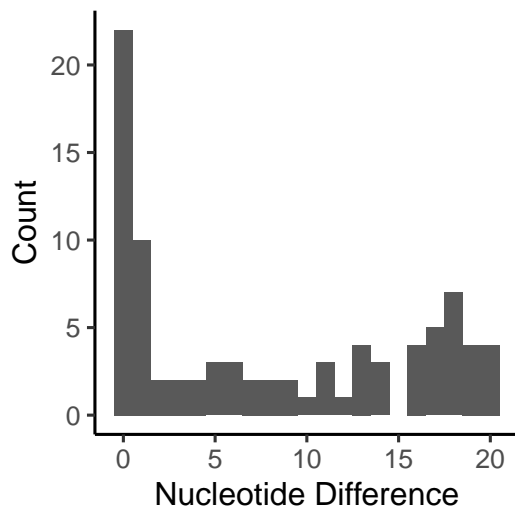
IGHV3-23*04

214 sequences assigned
28 (13.1%) exact matches, in which:
28 unique CDR3
5 unique J



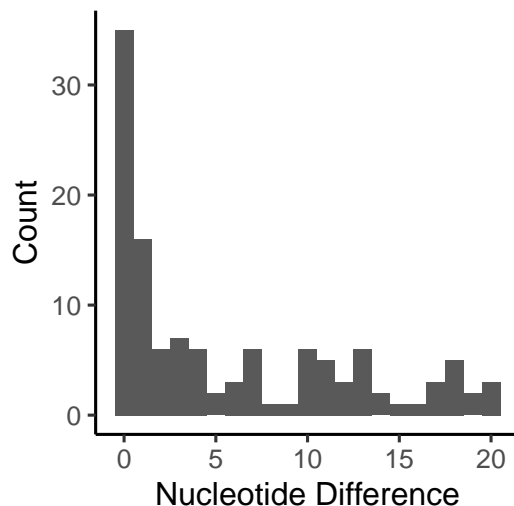
IGHV3-23*01_A152G

162 sequences assigned
22 (13.6%) exact matches, in which:
22 unique CDR3
5 unique J



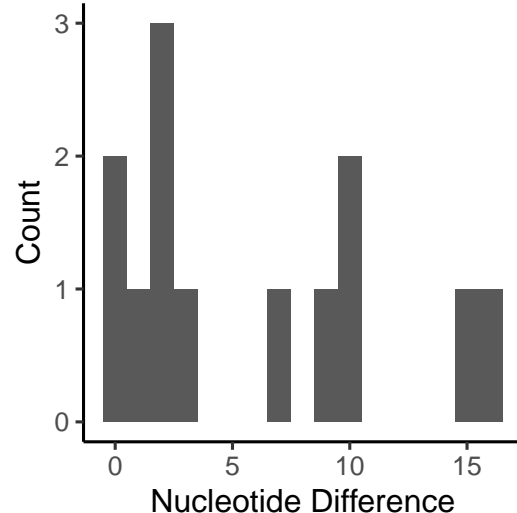
IGHV3-33*01

154 sequences assigned
35 (22.7%) exact matches, in which:
35 unique CDR3
6 unique J



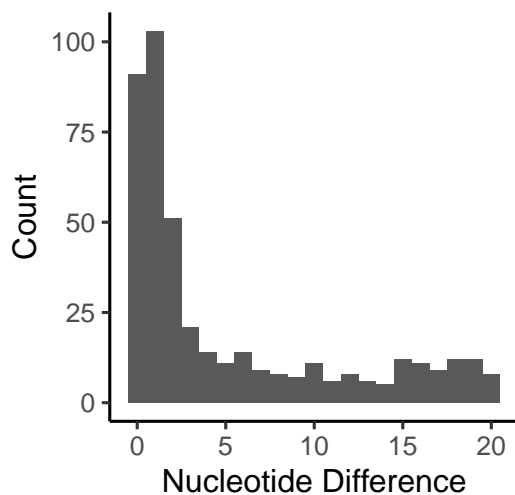
IGHV3-43*01

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



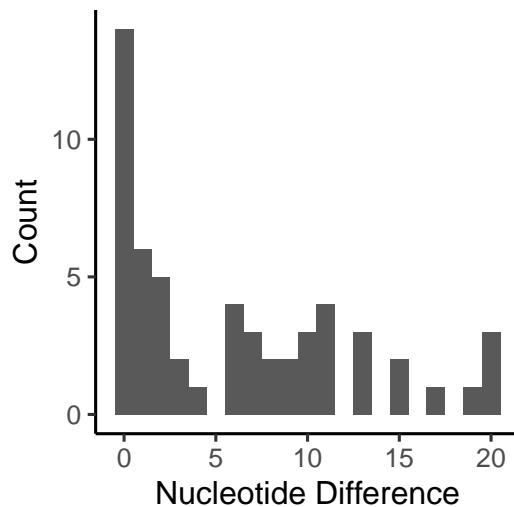
IGHV3-30-3*01

547 sequences assigned
91 (16.6%) exact matches, in which:
90 unique CDR3
6 unique J



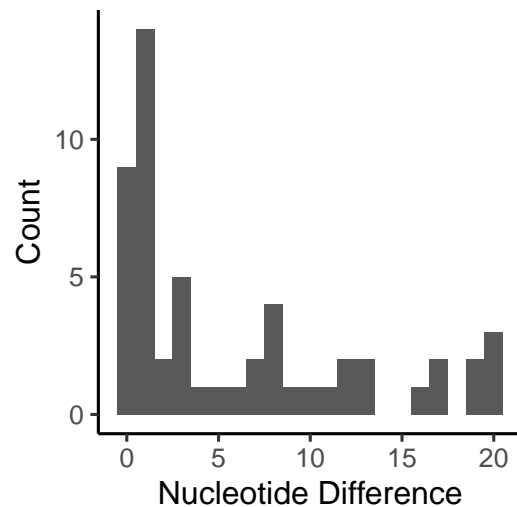
IGHV3-33*01_A152G

69 sequences assigned
14 (20.3%) exact matches, in which:
14 unique CDR3
4 unique J



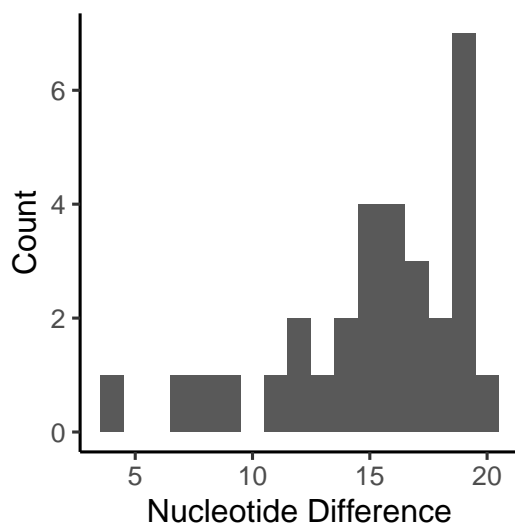
IGHV3-48*02

67 sequences assigned
9 (13.4%) exact matches, in which:
9 unique CDR3
4 unique J



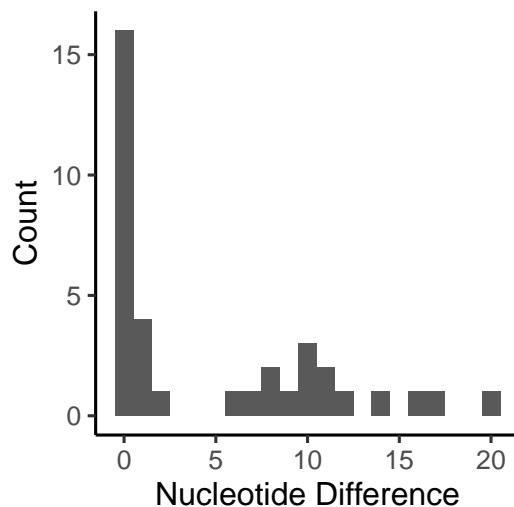
IGHV3-30*04

77 sequences assigned
No exact matches.



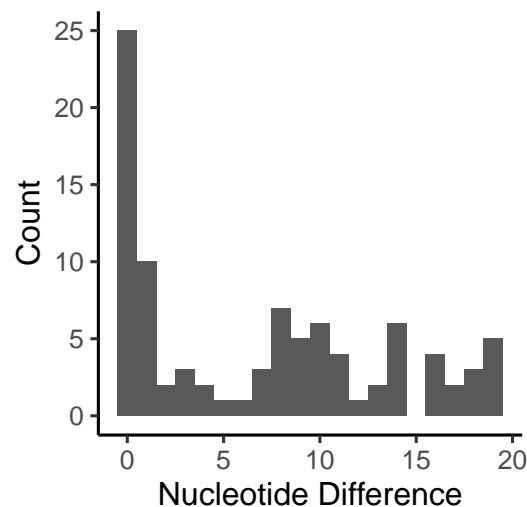
IGHV3-33*01_T154G

45 sequences assigned
16 (35.6%) exact matches, in which:
16 unique CDR3
4 unique J



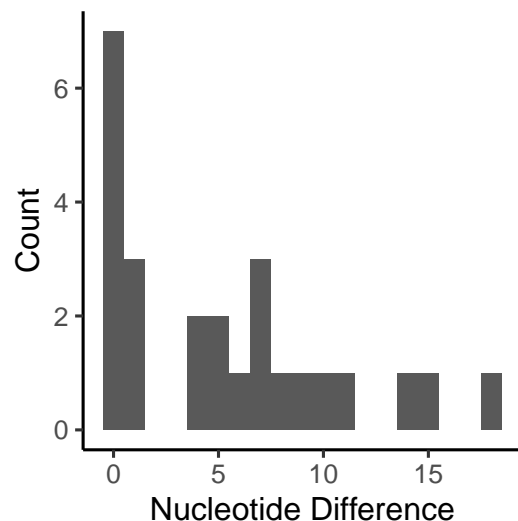
IGHV3-48*03

125 sequences assigned
25 (20%) exact matches, in which:
25 unique CDR3
6 unique J



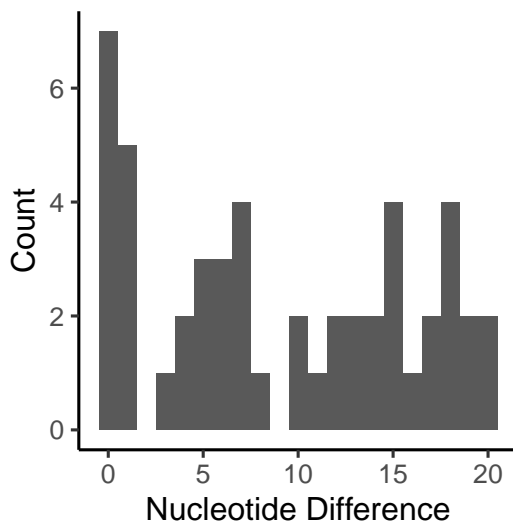
IGHV3-48*03_A152G

31 sequences assigned
7 (22.6%) exact matches, in which:
7 unique CDR3
4 unique J



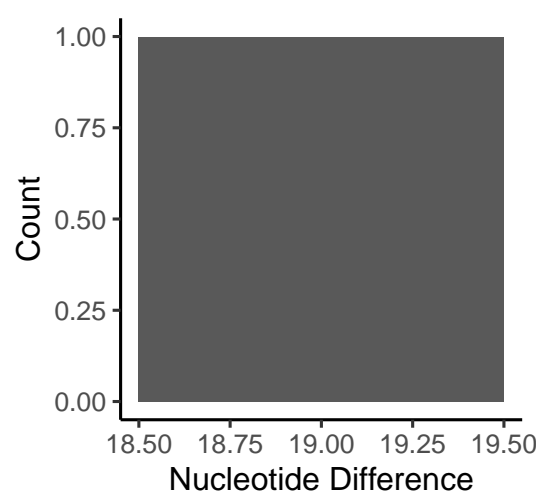
IGHV3-53*01

64 sequences assigned
7 (10.9%) exact matches, in which:
7 unique CDR3
3 unique J



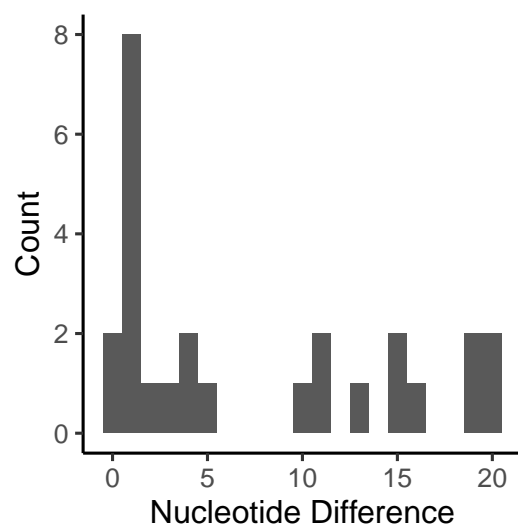
IGHV3-64*04

1 sequences assigned
No exact matches.



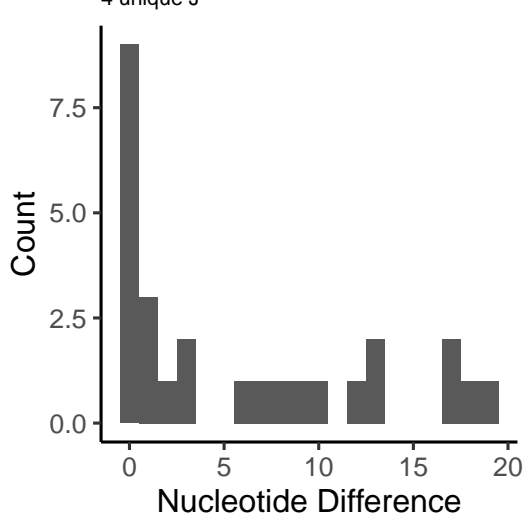
IGHV3-49*04

35 sequences assigned
2 (5.7%) exact matches, in which:
2 unique CDR3
1 unique J



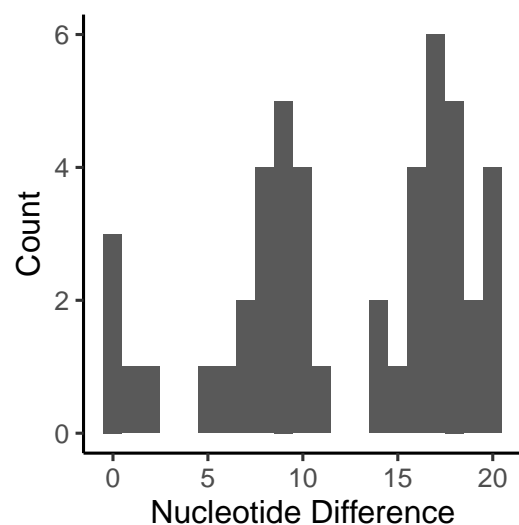
IGHV3-53*02

42 sequences assigned
9 (21.4%) exact matches, in which:
9 unique CDR3
4 unique J



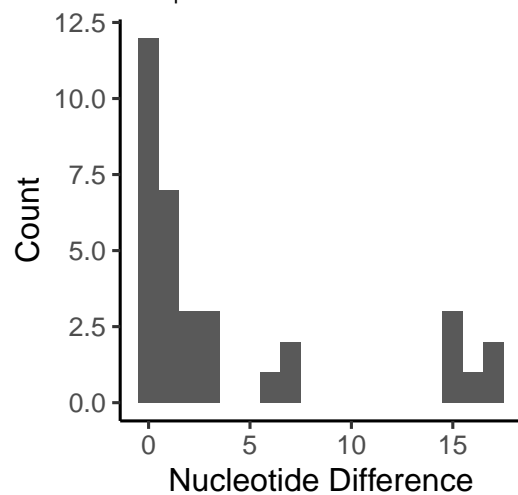
IGHV3-72*01

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



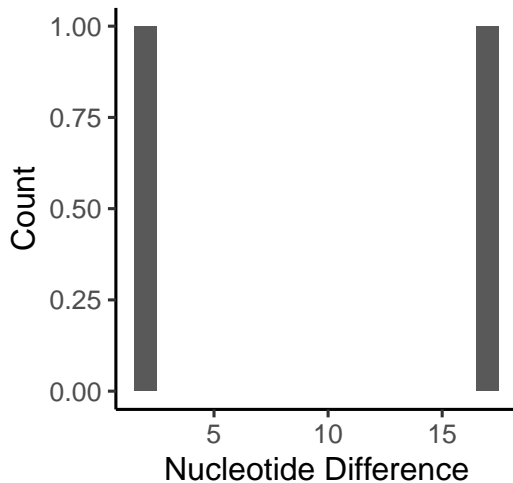
IGHV3-49*05

37 sequences assigned
12 (32.4%) exact matches, in which:
11 unique CDR3
5 unique J



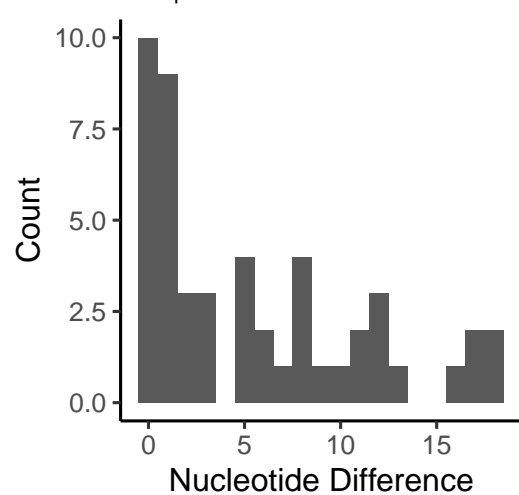
IGHV3-64*02

3 sequences assigned
No exact matches.



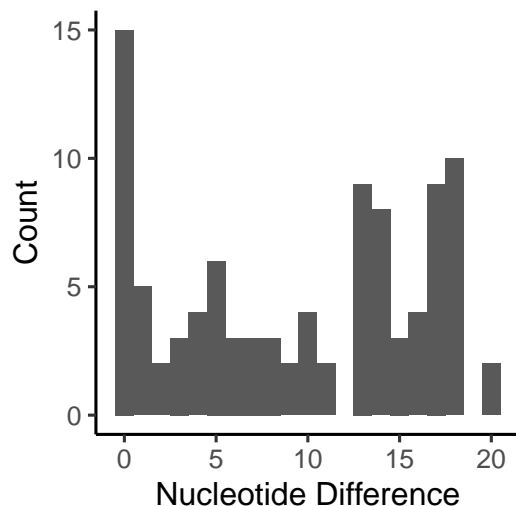
IGHV3-73*02

54 sequences assigned
10 (18.5%) exact matches, in which:
10 unique CDR3
5 unique J



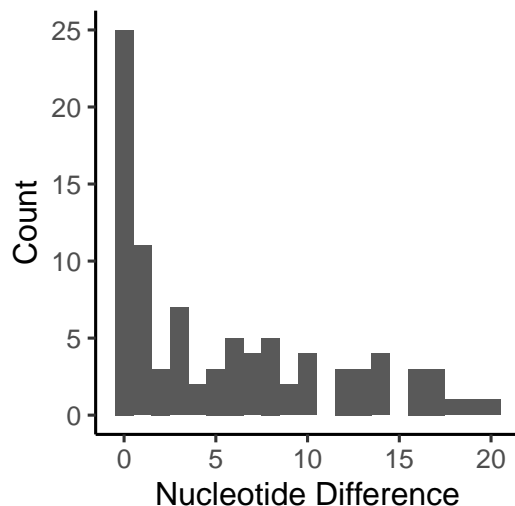
IGHV3-74*01

152 sequences assigned
15 (9.9%) exact matches, in which:
15 unique CDR3
3 unique J



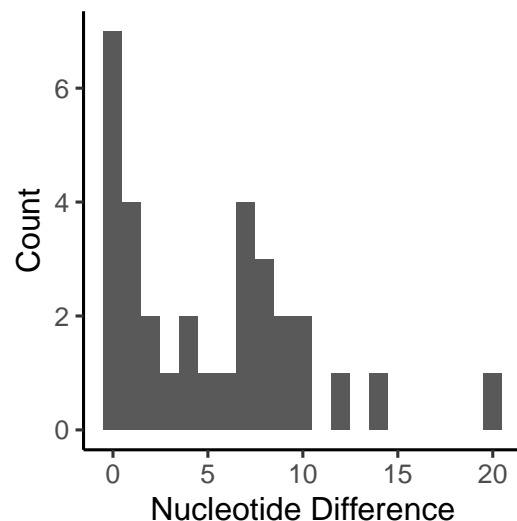
IGHV4-4*02

130 sequences assigned
25 (19.2%) exact matches, in which:
25 unique CDR3
4 unique J



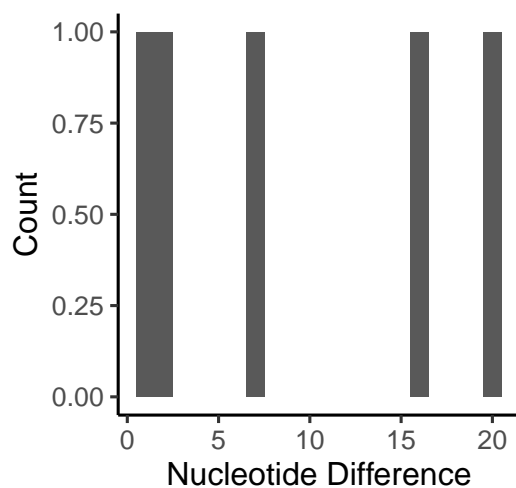
IGHV4-30-2*01

50 sequences assigned
7 (14%) exact matches, in which:
7 unique CDR3
4 unique J



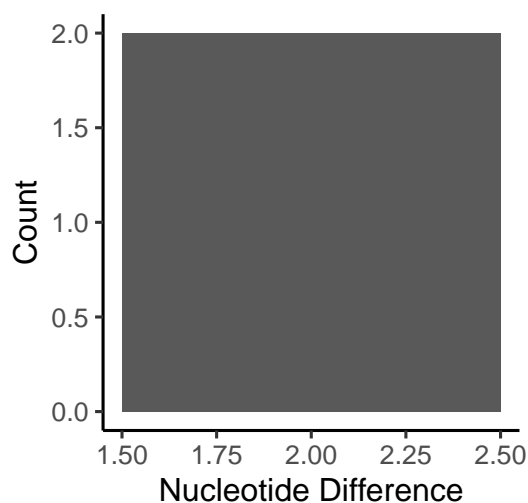
IGHV3-43D*04

9 sequences assigned
No exact matches.



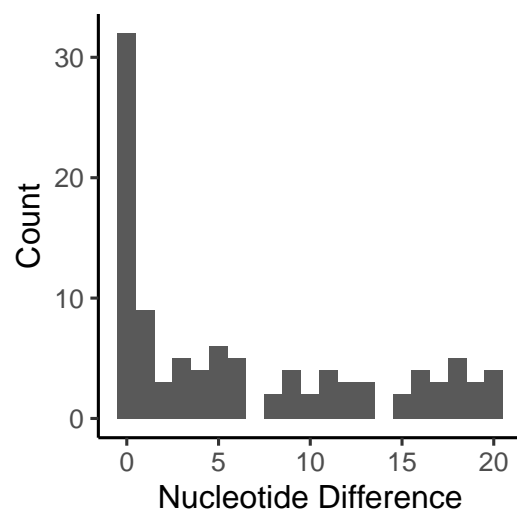
IGHV4-28*04

2 sequences assigned
No exact matches.



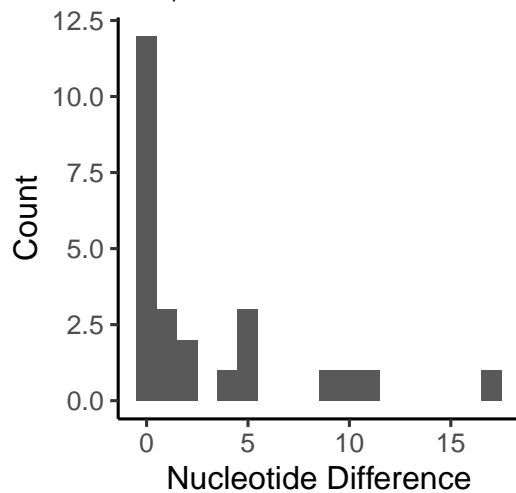
IGHV4-31*03

147 sequences assigned
32 (21.8%) exact matches, in which:
32 unique CDR3
4 unique J



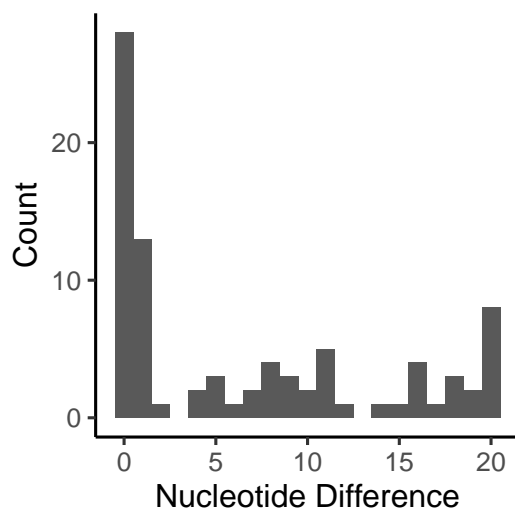
IGHV3-64D*06

42 sequences assigned
12 (28.6%) exact matches, in which:
12 unique CDR3
3 unique J



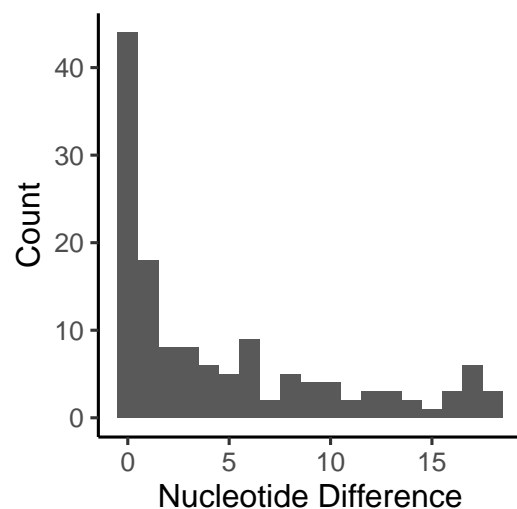
IGHV4-30-4*01

121 sequences assigned
28 (23.1%) exact matches, in which:
28 unique CDR3
6 unique J



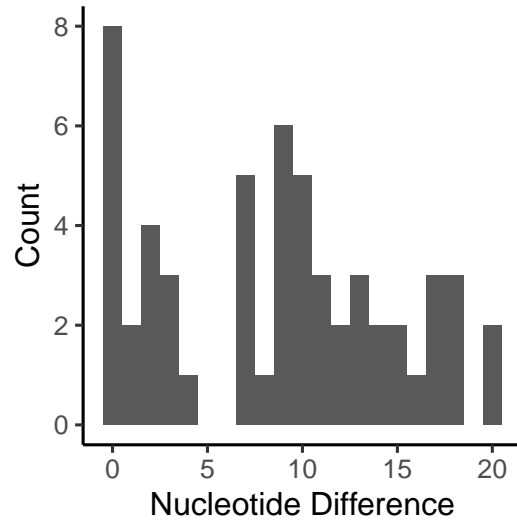
IGHV4-34*01

165 sequences assigned
44 (26.7%) exact matches, in which:
44 unique CDR3
4 unique J



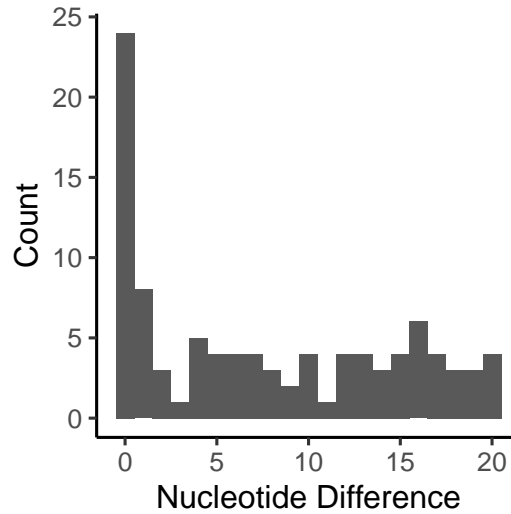
IGHV4-38-2*01

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



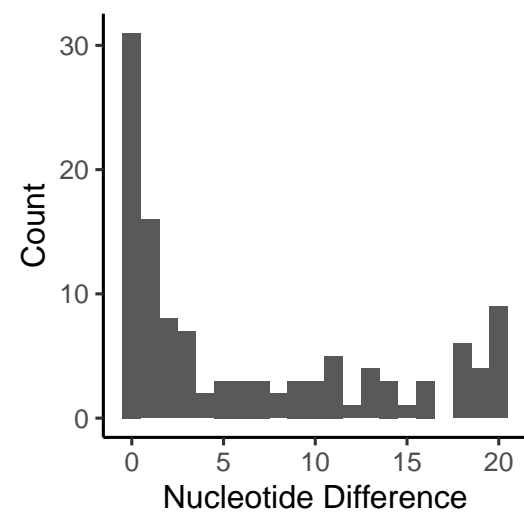
IGHV4-59*01

145 sequences assigned
24 (16.6%) exact matches, in which:
24 unique CDR3
5 unique J



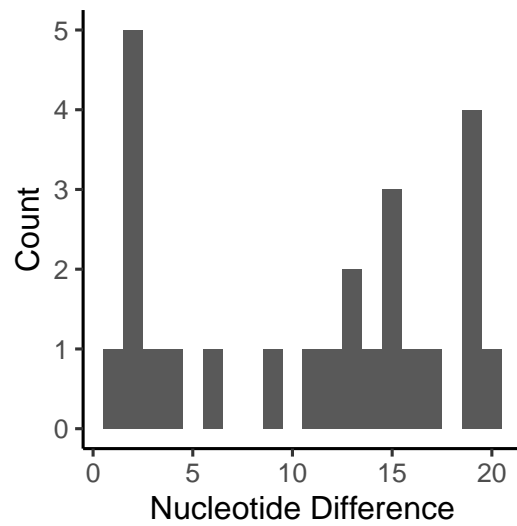
IGHV5-51*01

165 sequences assigned
31 (18.8%) exact matches, in which:
30 unique CDR3
5 unique J



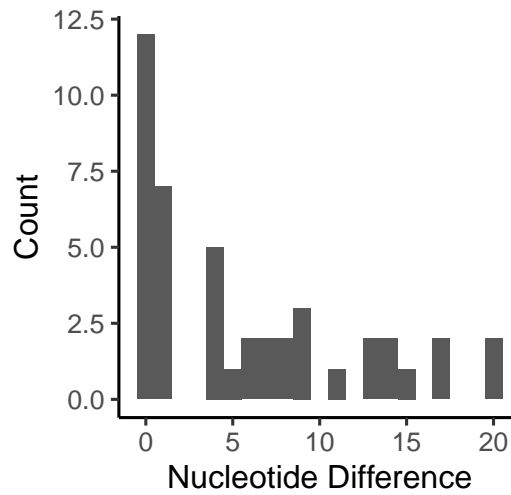
IGHV4-38-2*02

39 sequences assigned
No exact matches.



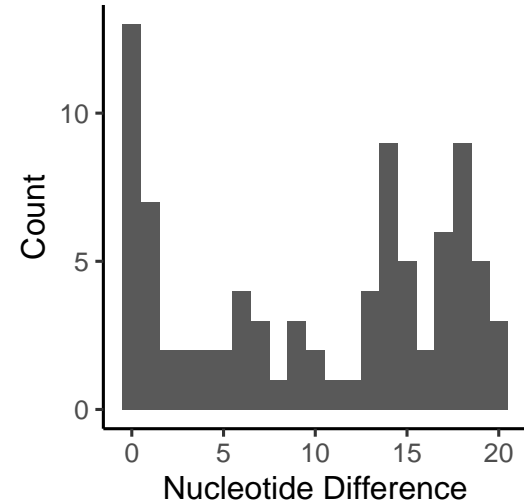
IGHV4-61*01

65 sequences assigned
12 (18.5%) exact matches, in which:
12 unique CDR3
4 unique J



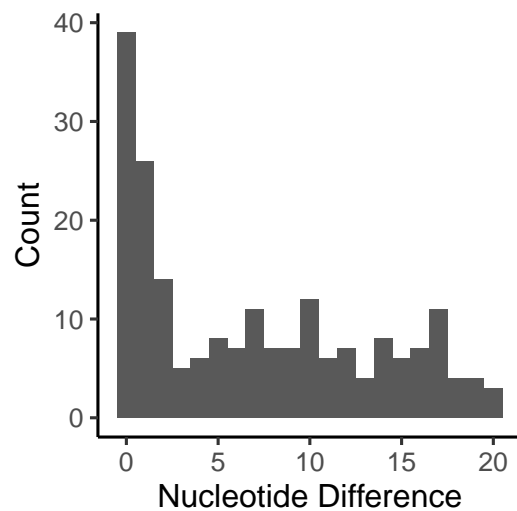
IGHV6-1*01

124 sequences assigned
13 (10.5%) exact matches, in which:
13 unique CDR3
5 unique J



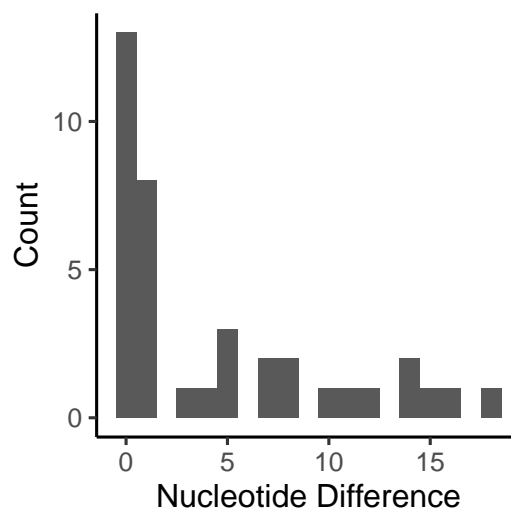
IGHV4-39*01

341 sequences assigned
39 (11.4%) exact matches, in which:
39 unique CDR3
5 unique J



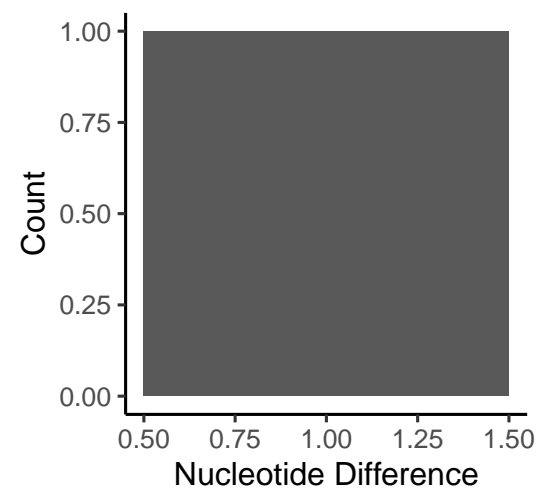
IGHV5-10-1*03

69 sequences assigned
13 (18.8%) exact matches, in which:
13 unique CDR3
5 unique J



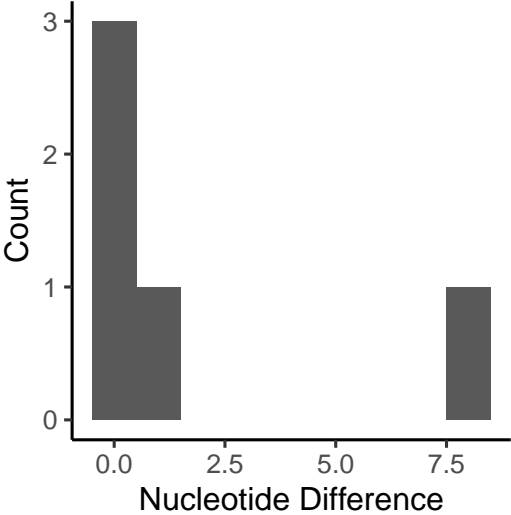
IGHV3/OR16-6*02

1 sequences assigned
No exact matches.



IGHV7-4-1*01

5 sequences assigned
3 (60%) exact matches, in which:
3 unique CDR3
2 unique J





Warning – no inferred sequences found.