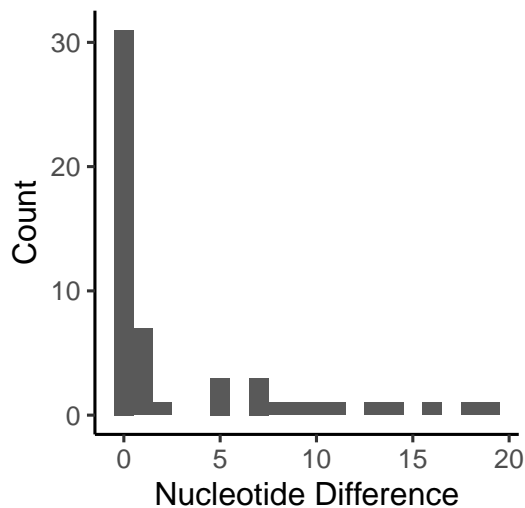


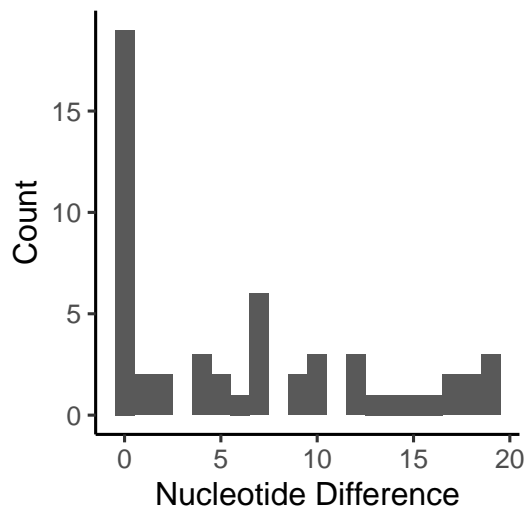
IGHV1-2*04

63 sequences assigned
31 (49.2%) exact matches, in which:
30 unique CDR3
6 unique J



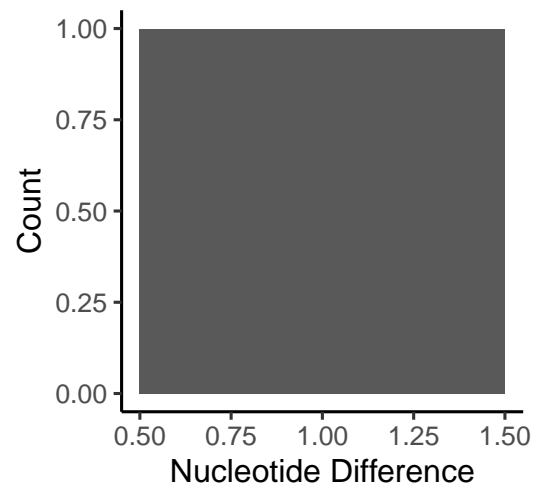
IGHV1-8*01

60 sequences assigned
19 (31.7%) exact matches, in which:
19 unique CDR3
4 unique J



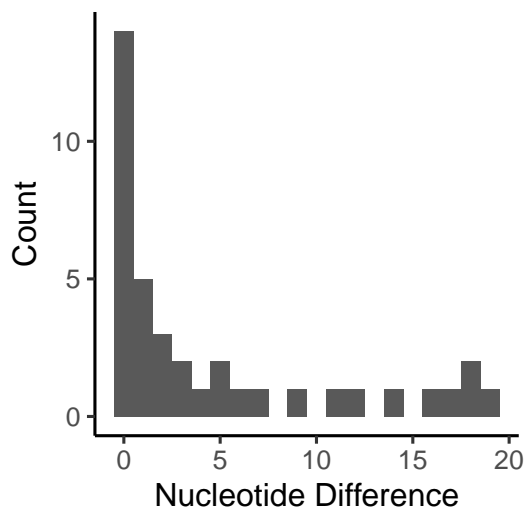
IGHV1-45*02

1 sequences assigned
No exact matches.



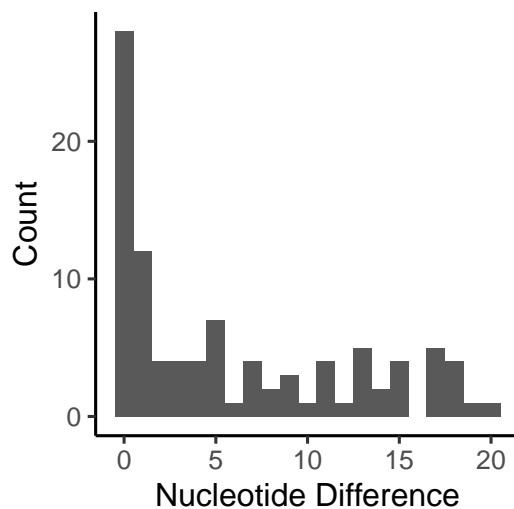
IGHV1-3*01

107 sequences assigned
14 (13.1%) exact matches, in which:
14 unique CDR3
4 unique J



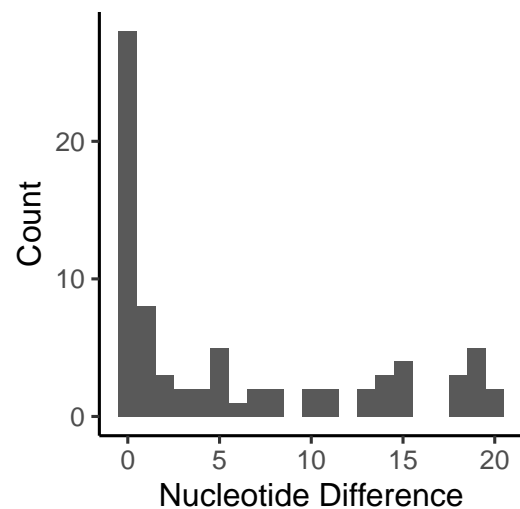
IGHV1-18*01

142 sequences assigned
28 (19.7%) exact matches, in which:
28 unique CDR3
4 unique J



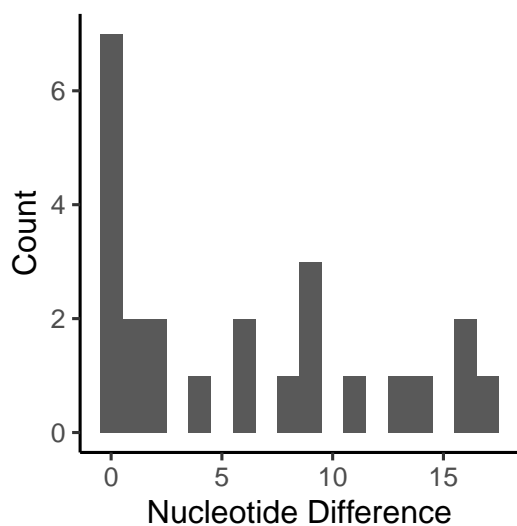
IGHV1-46*01

128 sequences assigned
28 (21.9%) exact matches, in which:
28 unique CDR3
5 unique J



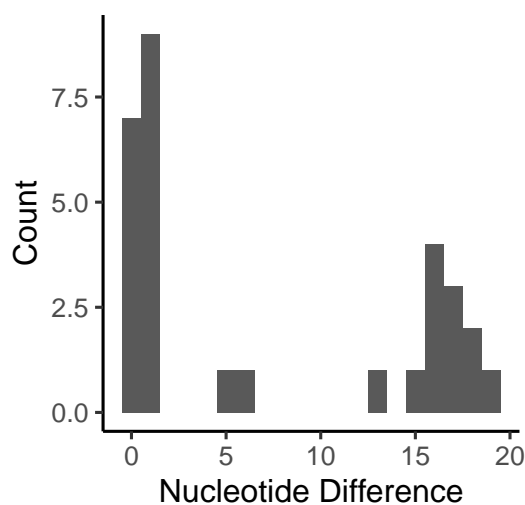
IGHV1-3*05

30 sequences assigned
7 (23.3%) exact matches, in which:
7 unique CDR3
4 unique J



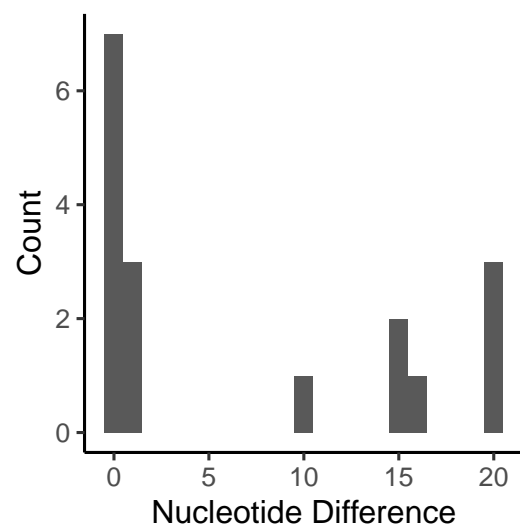
IGHV1-24*01

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



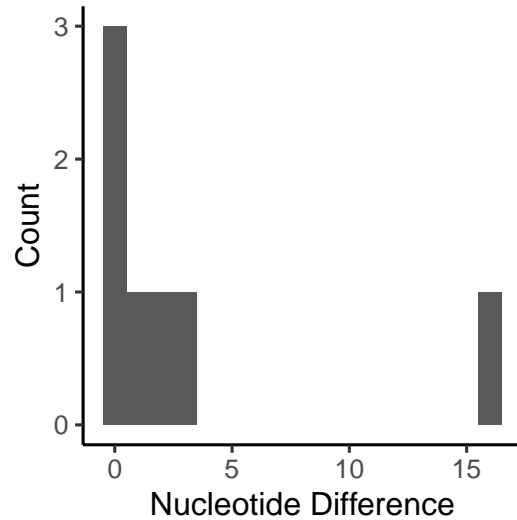
IGHV1-58*01

19 sequences assigned
7 (36.8%) exact matches, in which:
7 unique CDR3
3 unique J



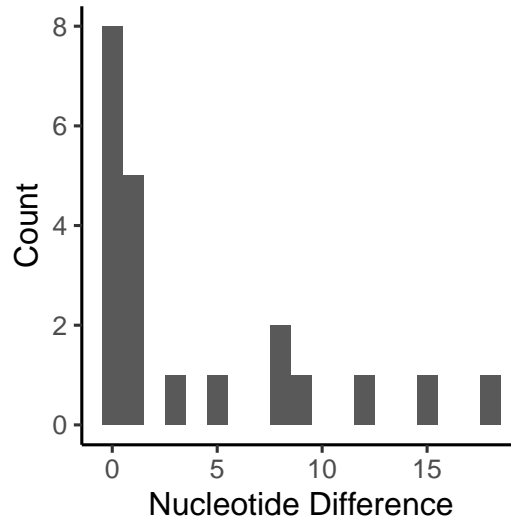
IGHV1-69-2*01

16 sequences assigned
3 (18.8%) exact matches, in which:
3 unique CDR3
1 unique J



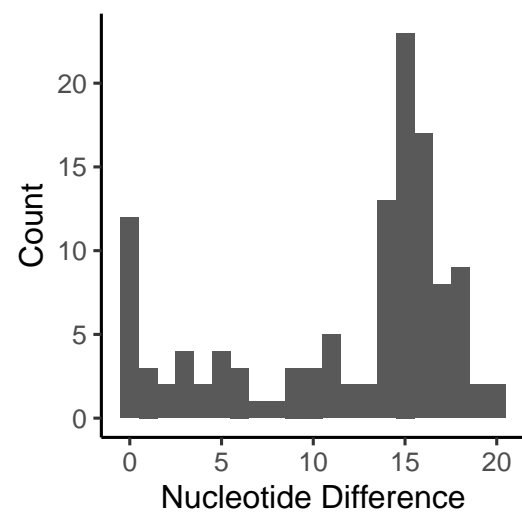
IGHV2-26*01

22 sequences assigned
8 (36.4%) exact matches, in which:
8 unique CDR3
3 unique J



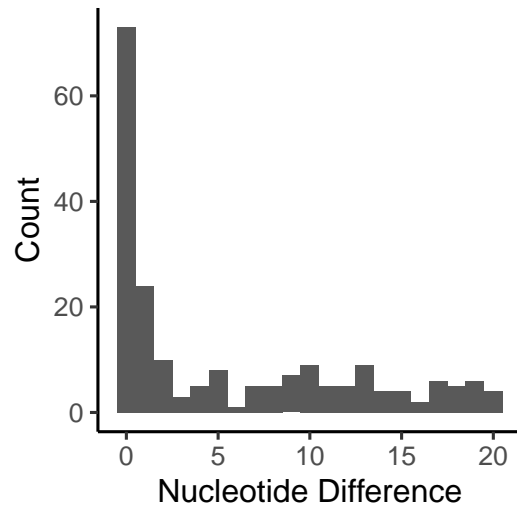
IGHV3-7*03

160 sequences assigned
12 (7.5%) exact matches, in which:
12 unique CDR3
5 unique J



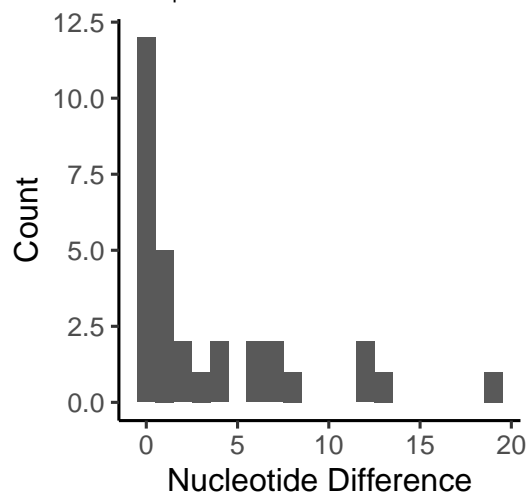
IGHV1-69*06

286 sequences assigned
73 (25.5%) exact matches, in which:
73 unique CDR3
6 unique J



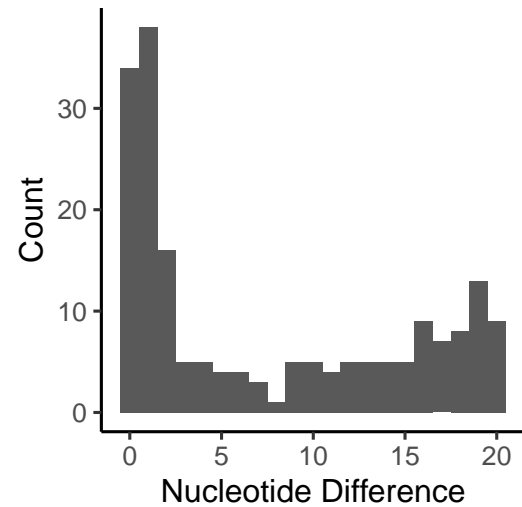
IGHV2-70*01

33 sequences assigned
12 (36.4%) exact matches, in which:
11 unique CDR3
5 unique J



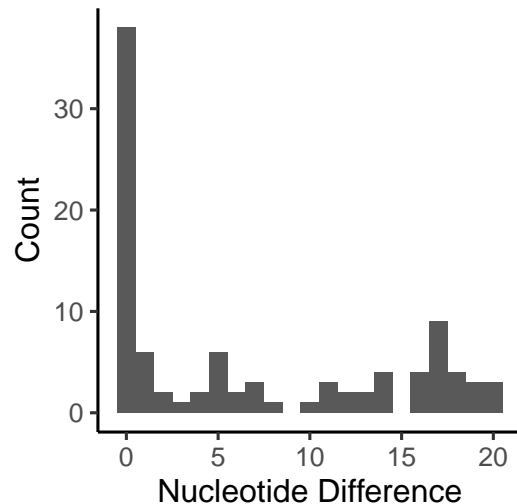
IGHV3-9*01

284 sequences assigned
34 (12%) exact matches, in which:
34 unique CDR3
6 unique J



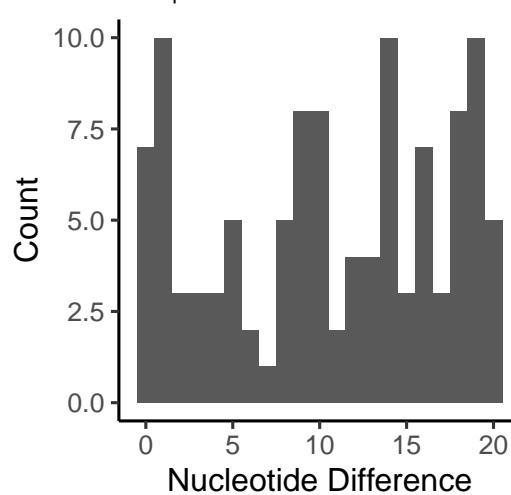
IGHV2-5*02

126 sequences assigned
38 (30.2%) exact matches, in which:
38 unique CDR3
6 unique J



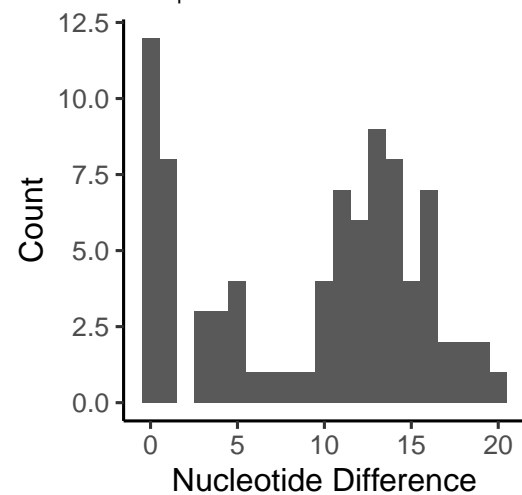
IGHV3-7*01

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



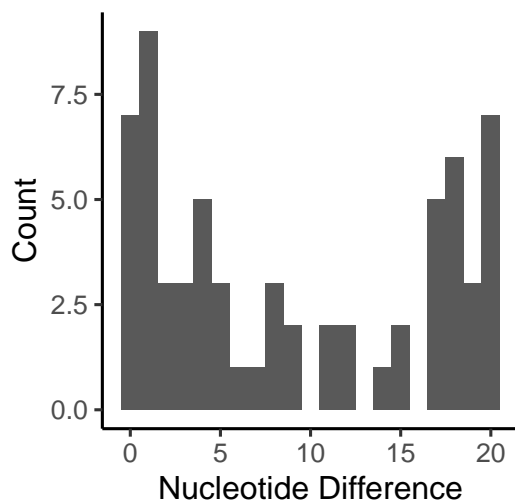
IGHV3-11*01

110 sequences assigned
12 (10.9%) exact matches, in which:
12 unique CDR3
5 unique J



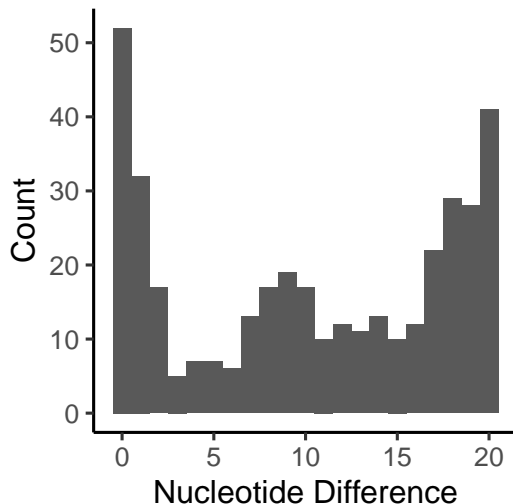
IGHV3-11*06

99 sequences assigned
7 (7.1%) exact matches, in which:
7 unique CDR3
4 unique J



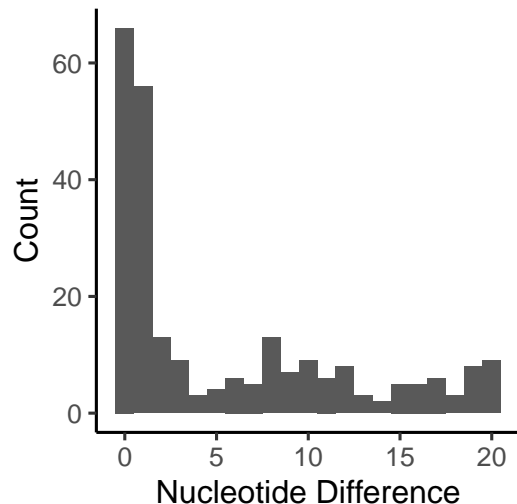
IGHV3-15*07

573 sequences assigned
52 (9.1%) exact matches, in which:
50 unique CDR3
6 unique J



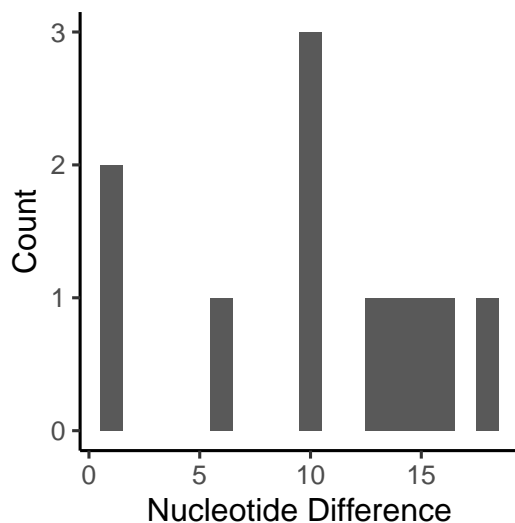
IGHV3-21*01

323 sequences assigned
66 (20.4%) exact matches, in which:
65 unique CDR3
5 unique J



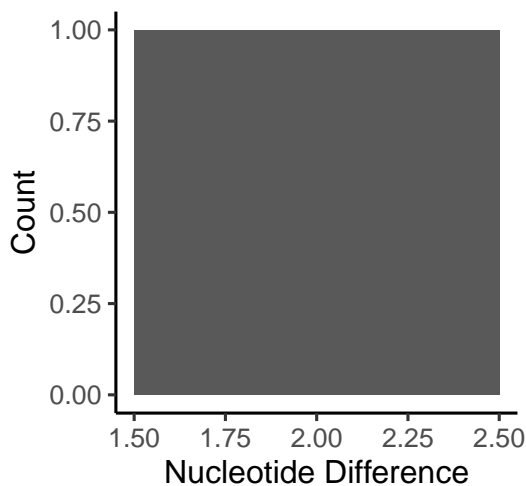
IGHV3-13*01

15 sequences assigned
No exact matches.



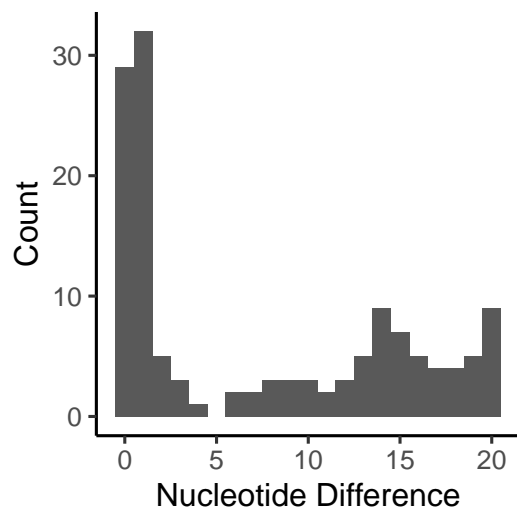
IGHV3-20*01

1 sequences assigned
No exact matches.



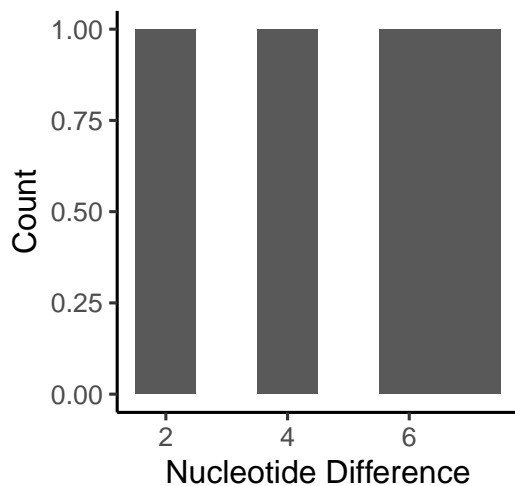
IGHV3-23*04

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



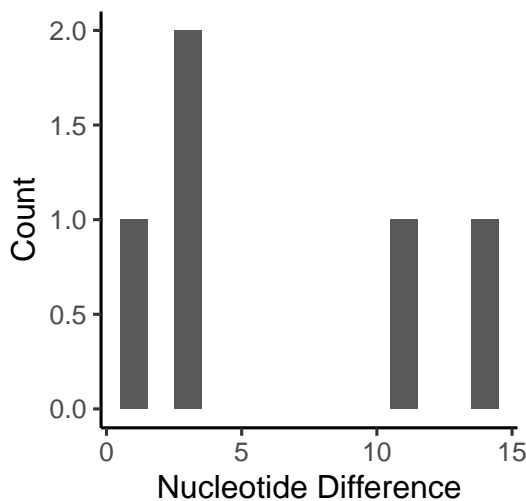
IGHV3-13*05

4 sequences assigned
No exact matches.



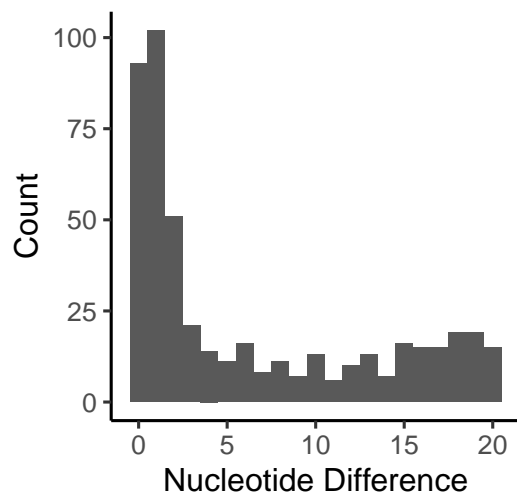
IGHV3-20*04

7 sequences assigned
No exact matches.



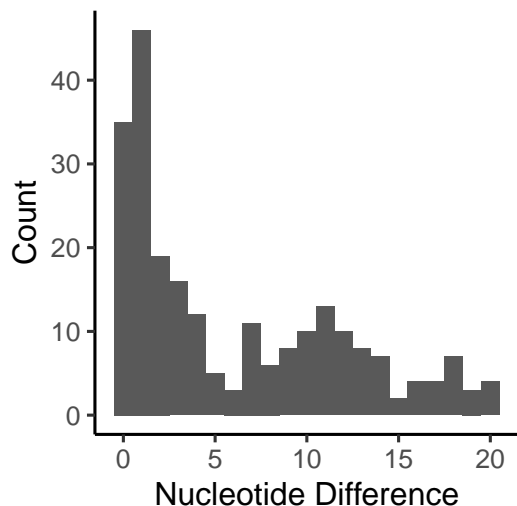
IGHV3-30-3*01

672 sequences assigned
93 (13.8%) exact matches, in which:
91 unique CDR3
6 unique J



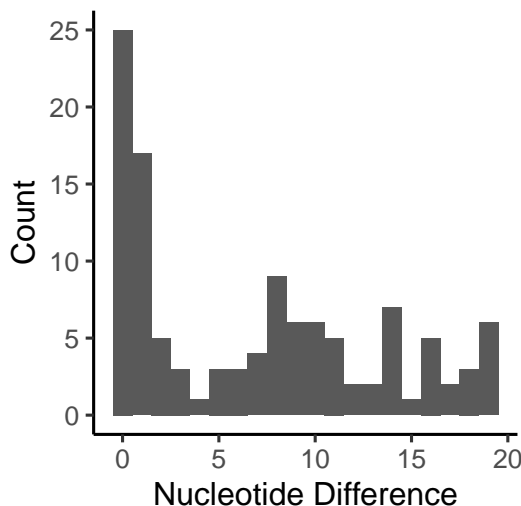
IGHV3-33*01

296 sequences assigned
35 (11.8%) exact matches, in which:
35 unique CDR3
6 unique J



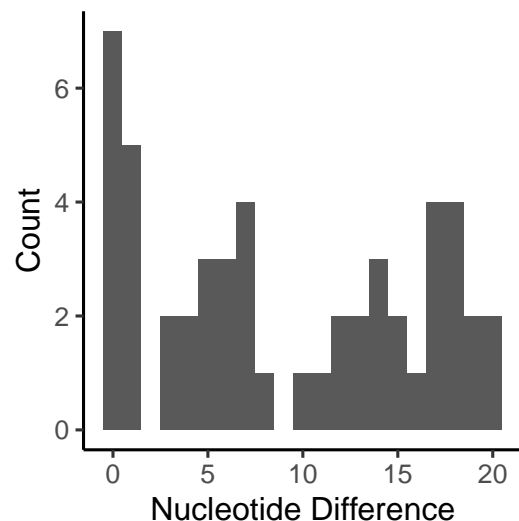
IGHV3-48*03

154 sequences assigned
25 (16.2%) exact matches, in which:
25 unique CDR3
6 unique J



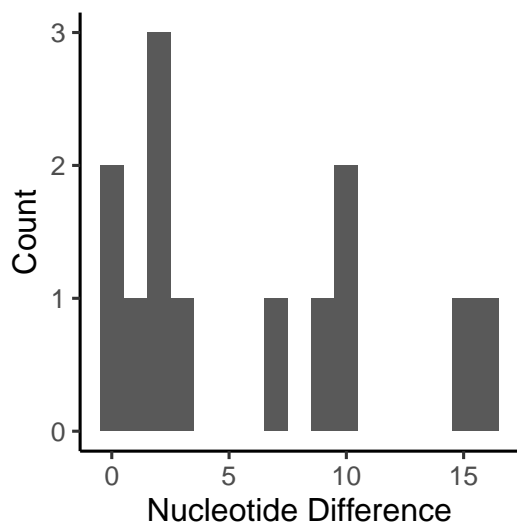
IGHV3-53*01

66 sequences assigned
7 (10.6%) exact matches, in which:
7 unique CDR3
3 unique J



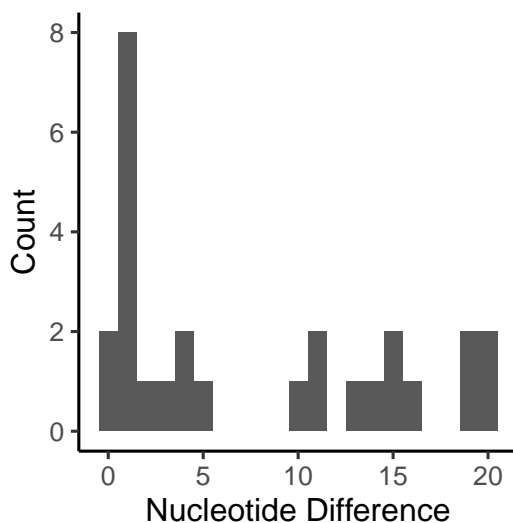
IGHV3-43*01

14 sequences assigned
2 (14.3%) exact matches, in which:
2 unique CDR3
2 unique J



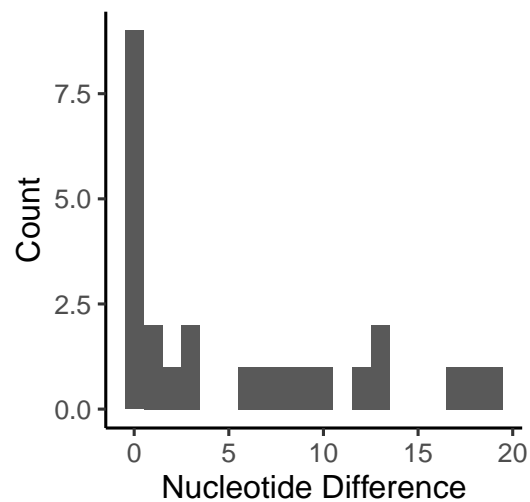
IGHV3-49*04

37 sequences assigned
2 (5.4%) exact matches, in which:
2 unique CDR3
1 unique J



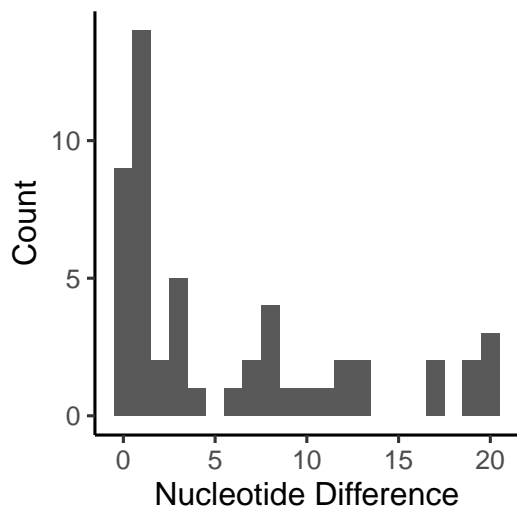
IGHV3-53*02

40 sequences assigned
9 (22.5%) exact matches, in which:
9 unique CDR3
4 unique J



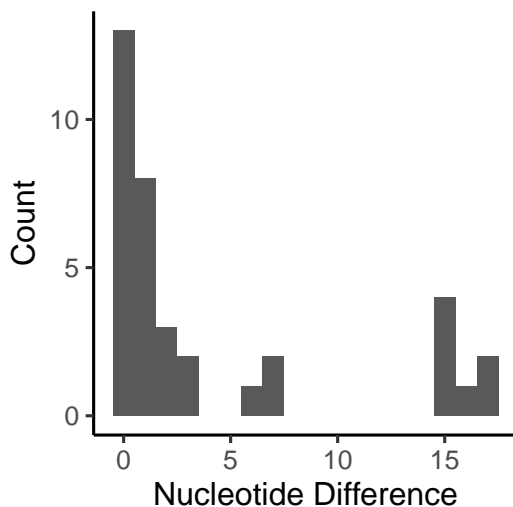
IGHV3-48*02

68 sequences assigned
9 (13.2%) exact matches, in which:
9 unique CDR3
4 unique J



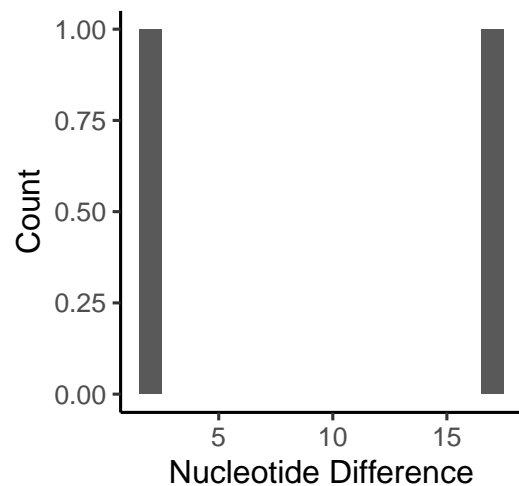
IGHV3-49*05

38 sequences assigned
13 (34.2%) exact matches, in which:
11 unique CDR3
5 unique J



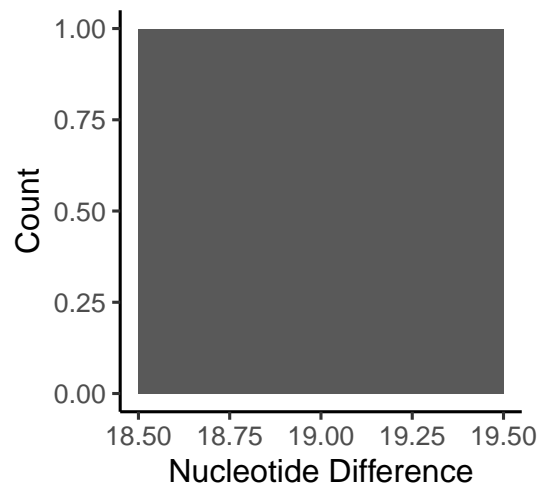
IGHV3-64*02

3 sequences assigned
No exact matches.



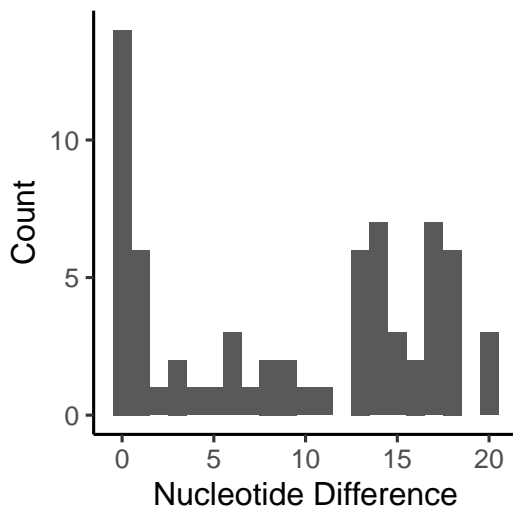
IGHV3-64*04

1 sequences assigned
No exact matches.



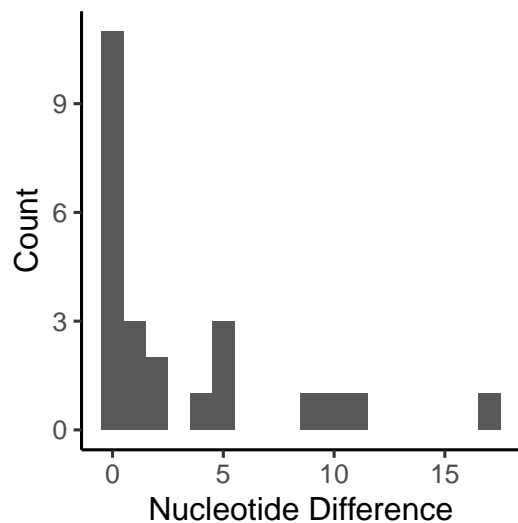
IGHV3-74*01

85 sequences assigned
14 (16.5%) exact matches, in which:
14 unique CDR3
3 unique J



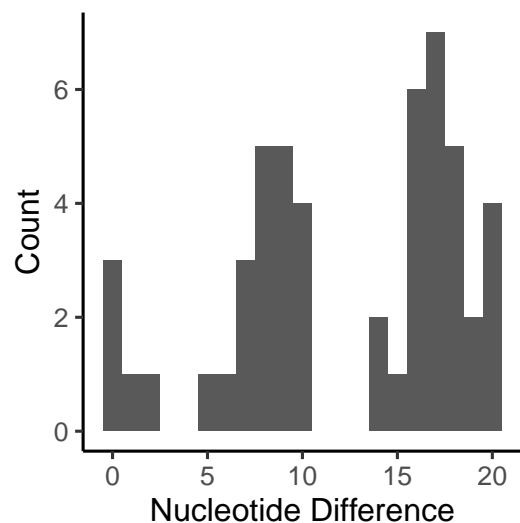
IGHV3-64D*06

39 sequences assigned
11 (28.2%) exact matches, in which:
11 unique CDR3
3 unique J



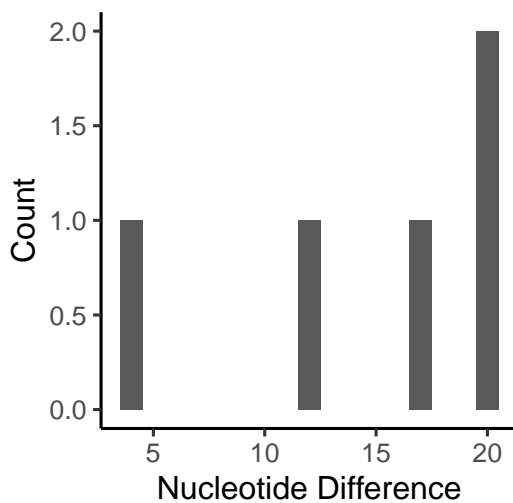
IGHV3-72*01

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



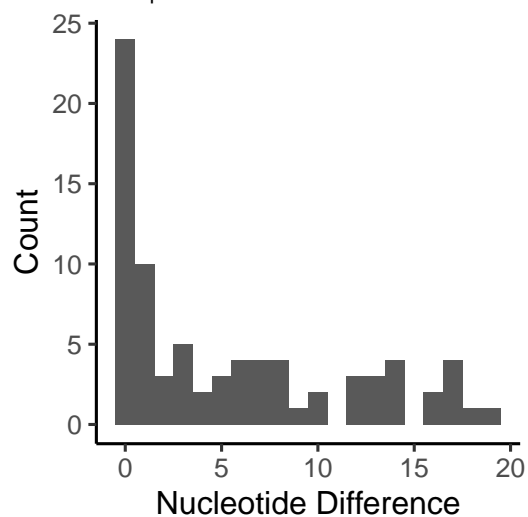
IGHV3-74*03

15 sequences assigned
No exact matches.



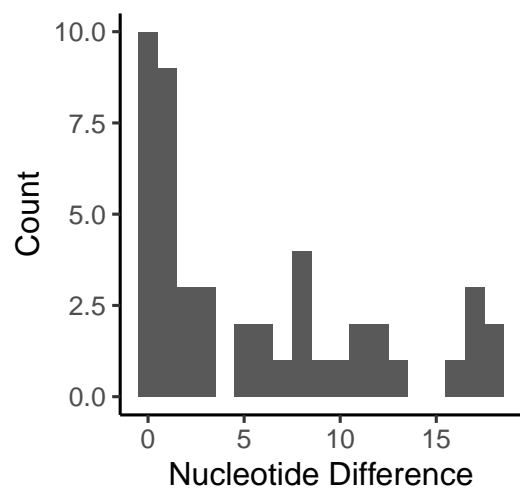
IGHV4-4*02

113 sequences assigned
24 (21.2%) exact matches, in which:
24 unique CDR3
4 unique J



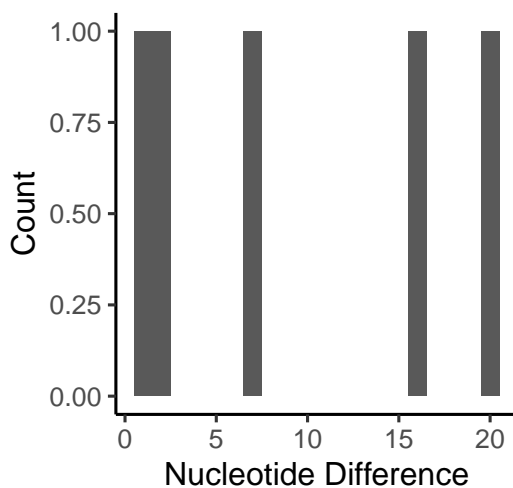
IGHV3-73*02

51 sequences assigned
10 (19.6%) exact matches, in which:
10 unique CDR3
5 unique J



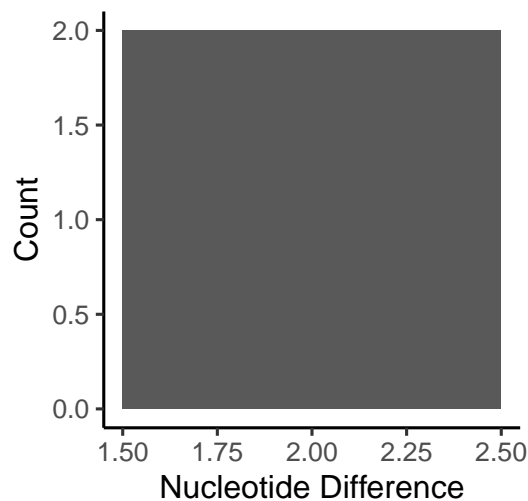
IGHV3-43D*04

9 sequences assigned
No exact matches.



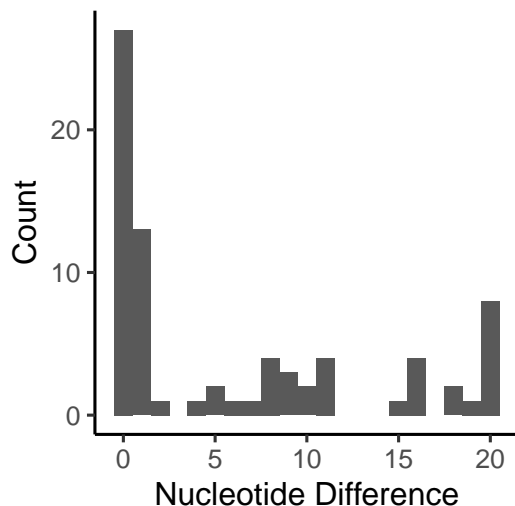
IGHV4-28*04

2 sequences assigned
No exact matches.



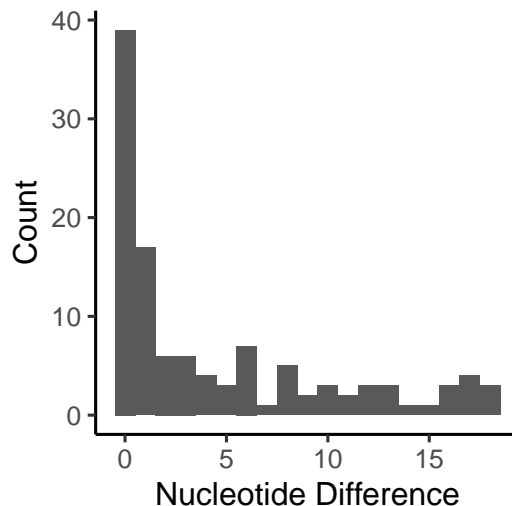
IGHV4-30-4*01

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



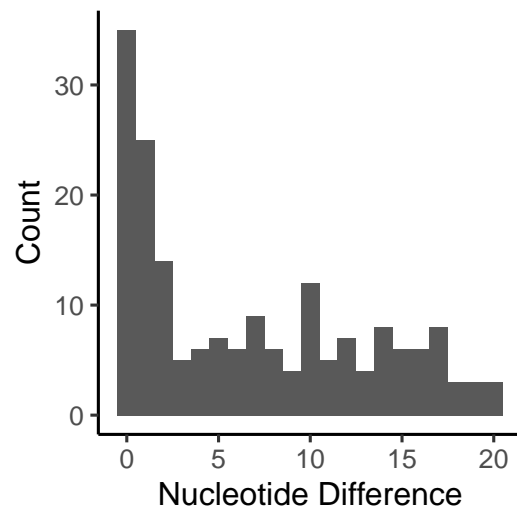
IGHV4-34*01

132 sequences assigned
39 (29.5%) exact matches, in which:
39 unique CDR3
4 unique J



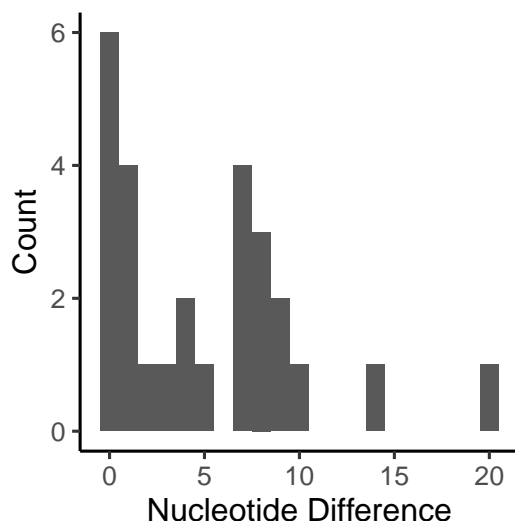
IGHV4-39*01

297 sequences assigned
35 (11.8%) exact matches, in which:
35 unique CDR3
5 unique J



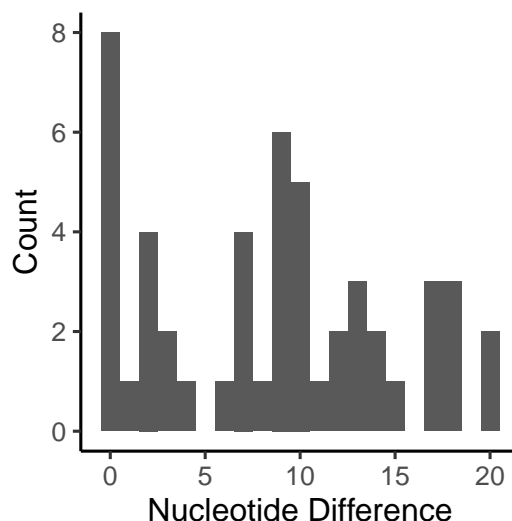
IGHV4-30-2*01

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



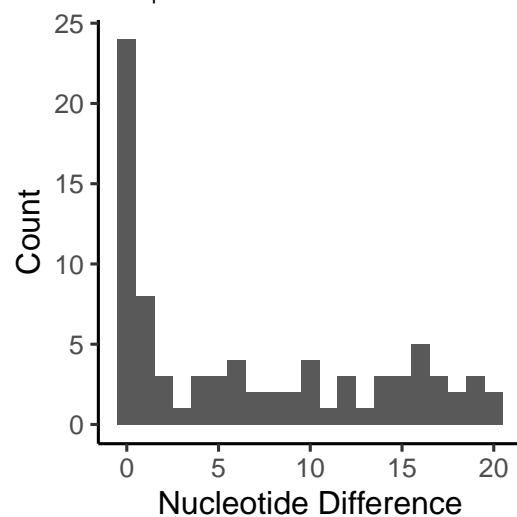
IGHV4-38-2*01

71 sequences assigned
8 (11.3%) exact matches, in which:
8 unique CDR3
4 unique J



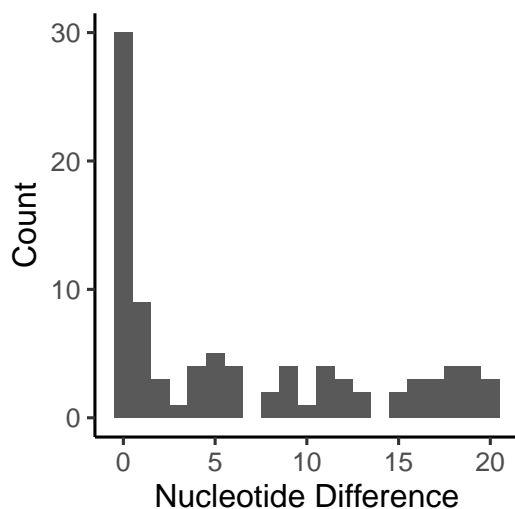
IGHV4-59*01

120 sequences assigned
24 (20%) exact matches, in which:
23 unique CDR3
5 unique J



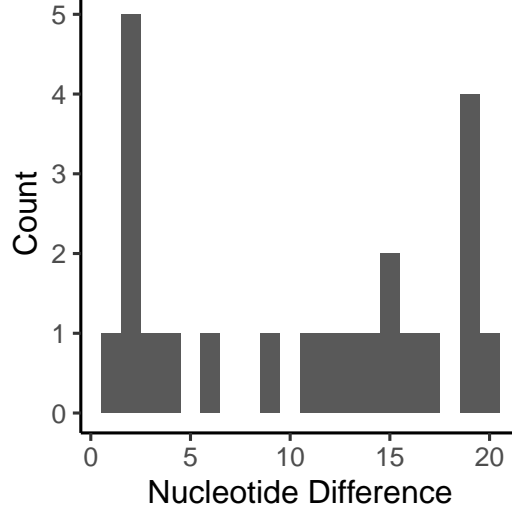
IGHV4-31*03

127 sequences assigned
30 (23.6%) exact matches, in which:
30 unique CDR3
4 unique J



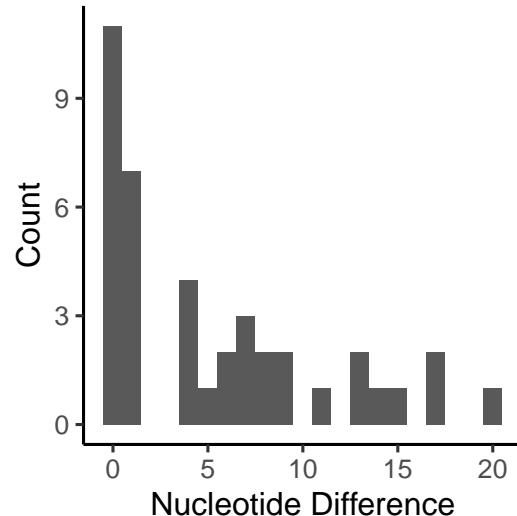
IGHV4-38-2*02

35 sequences assigned
No exact matches.



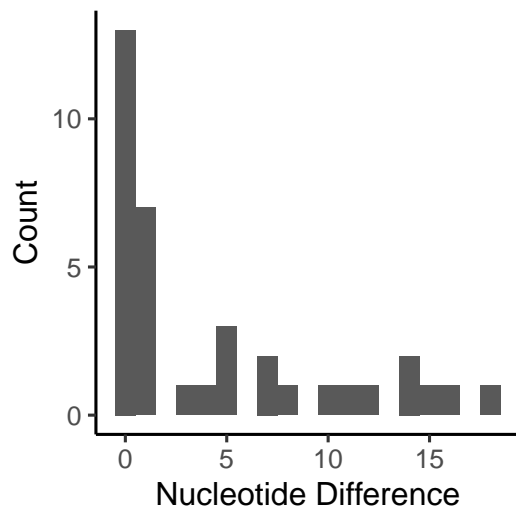
IGHV4-61*01

60 sequences assigned
11 (18.3%) exact matches, in which:
11 unique CDR3
4 unique J



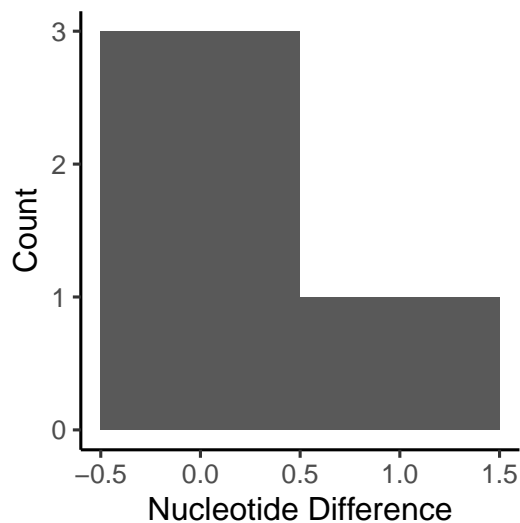
IGHV5-10-1*03

57 sequences assigned
13 (22.8%) exact matches, in which:
13 unique CDR3
5 unique J



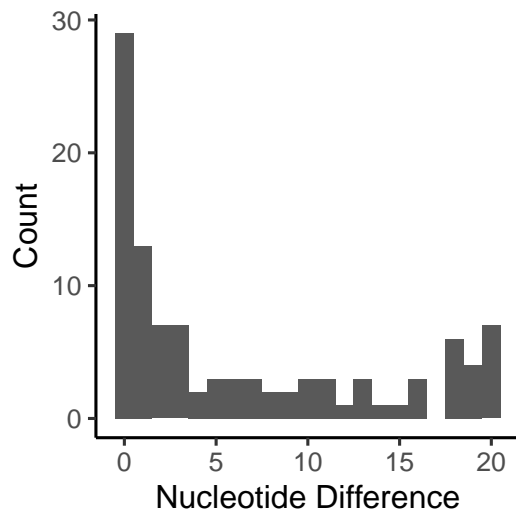
IGHV7-4-1*01

4 sequences assigned
3 (75%) exact matches, in which:
3 unique CDR3
2 unique J



IGHV5-51*01

147 sequences assigned
29 (19.7%) exact matches, in which:
27 unique CDR3
5 unique J



IGHV6-1*01

118 sequences assigned
12 (10.2%) exact matches, in which:
12 unique CDR3
5 unique J

