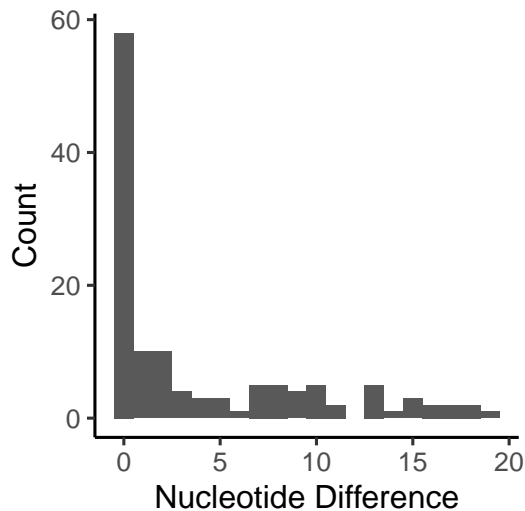


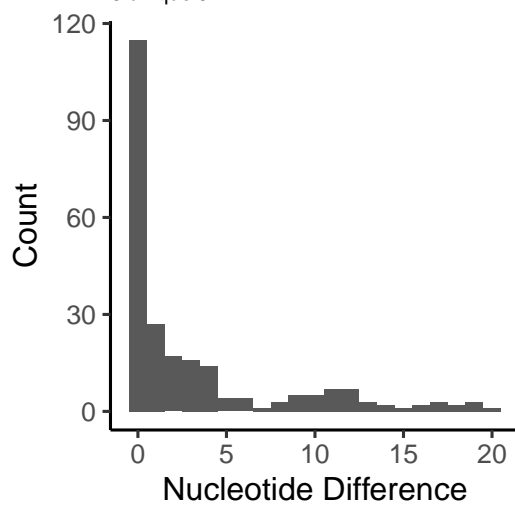
IGHV1-2*02

147 sequences assigned
58 (39.5%) exact matches, in which:
58 unique CDR3
6 unique J



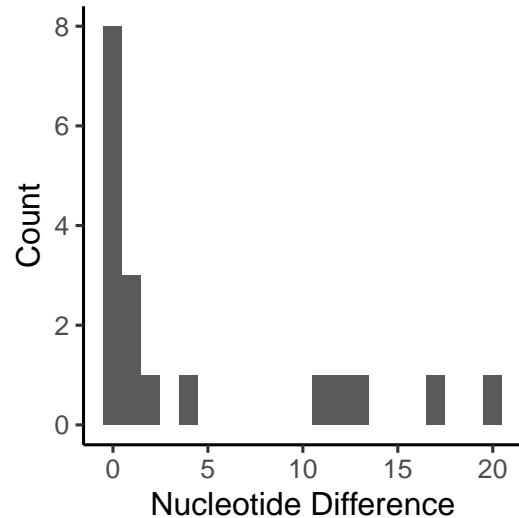
IGHV1-18*01

249 sequences assigned
115 (46.2%) exact matches, in which:
115 unique CDR3
6 unique J



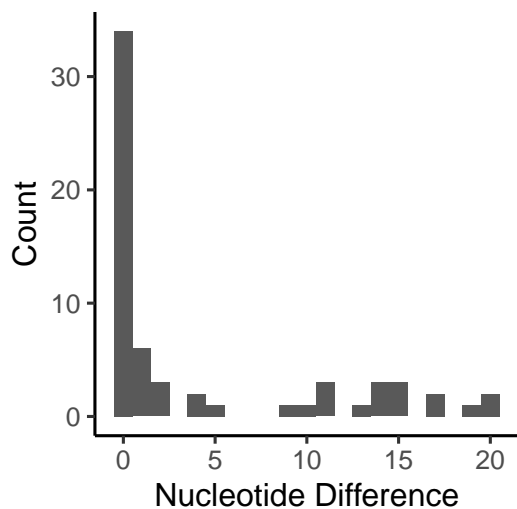
IGHV1-58*01

18 sequences assigned
8 (44.4%) exact matches, in which:
8 unique CDR3
2 unique J



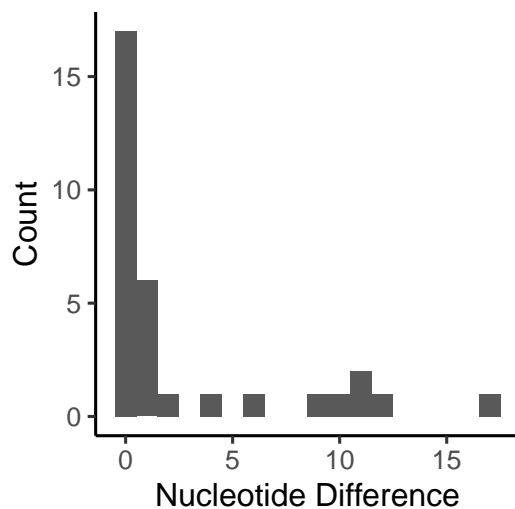
IGHV1-3*01

66 sequences assigned
34 (51.5%) exact matches, in which:
34 unique CDR3
5 unique J



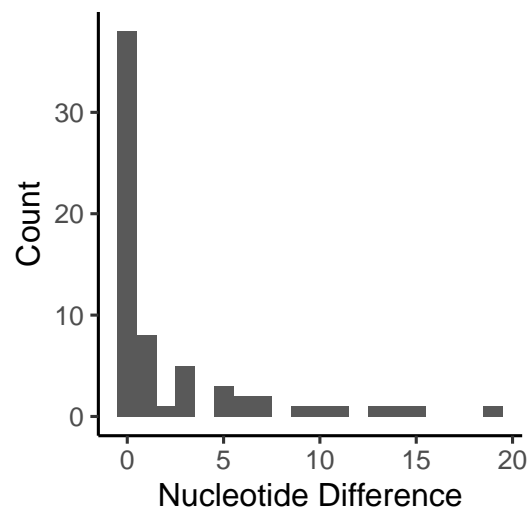
IGHV1-24*01

38 sequences assigned
17 (44.7%) exact matches, in which:
17 unique CDR3
7 unique J



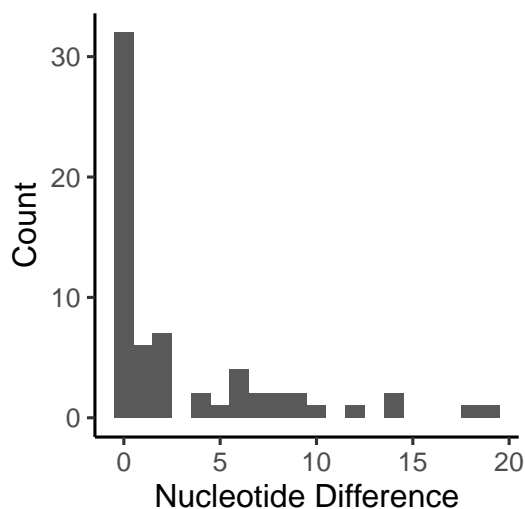
IGHV1-69*04

71 sequences assigned
38 (53.5%) exact matches, in which:
38 unique CDR3
7 unique J



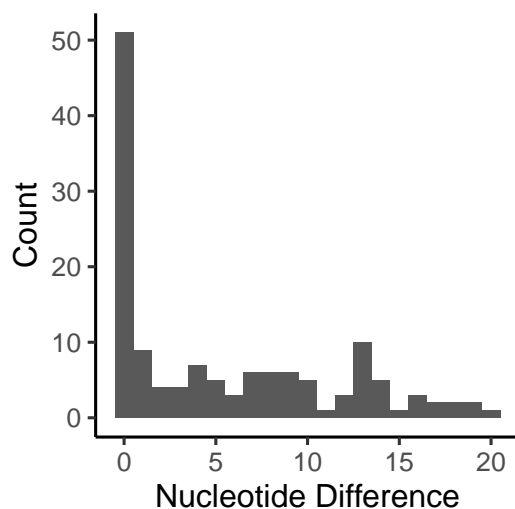
IGHV1-8*01

64 sequences assigned
32 (50%) exact matches, in which:
32 unique CDR3
3 unique J



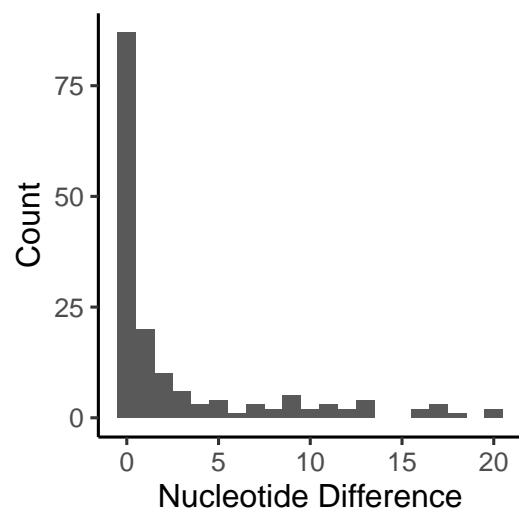
IGHV1-46*01

141 sequences assigned
51 (36.2%) exact matches, in which:
50 unique CDR3
5 unique J



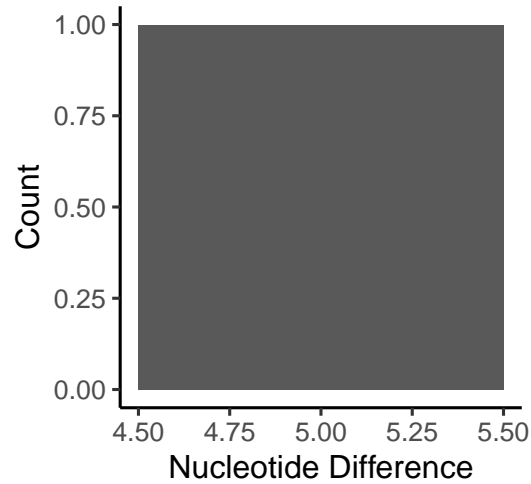
IGHV1-69*06

163 sequences assigned
87 (53.4%) exact matches, in which:
87 unique CDR3
6 unique J



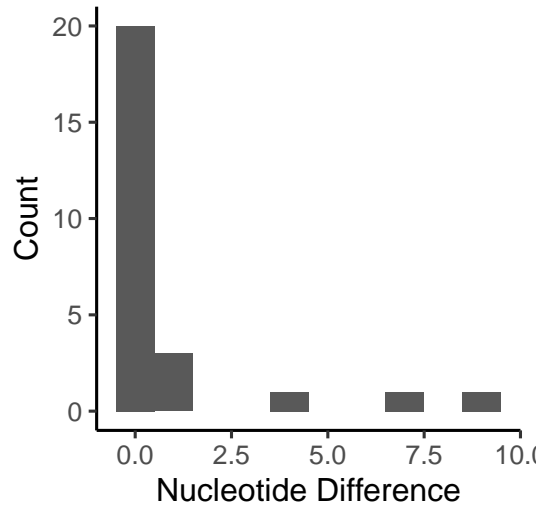
IGHV1-69D*01

1 sequences assigned
No exact matches.



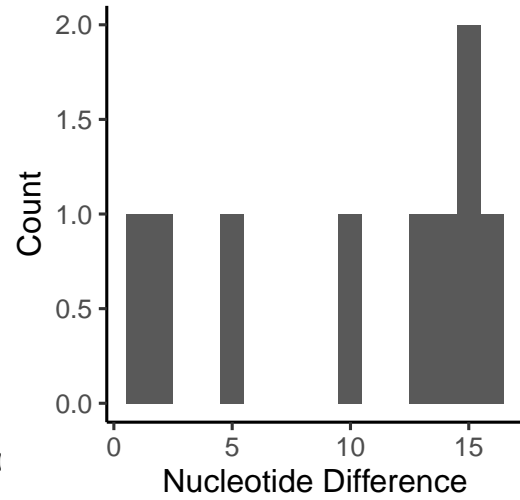
IGHV2-70*01

26 sequences assigned
20 (76.9%) exact matches, in which:
18 unique CDR3
4 unique J



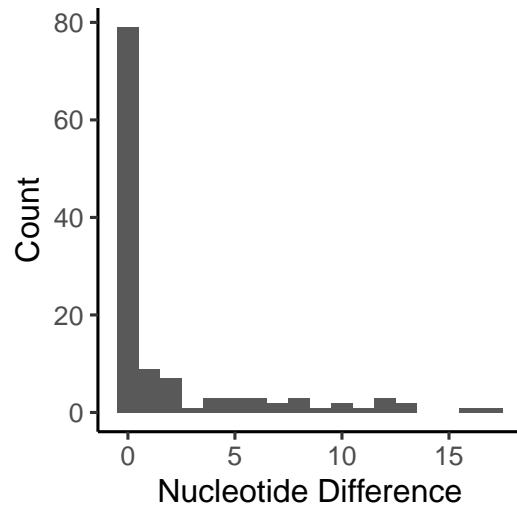
IGHV3-7*03

9 sequences assigned
No exact matches.



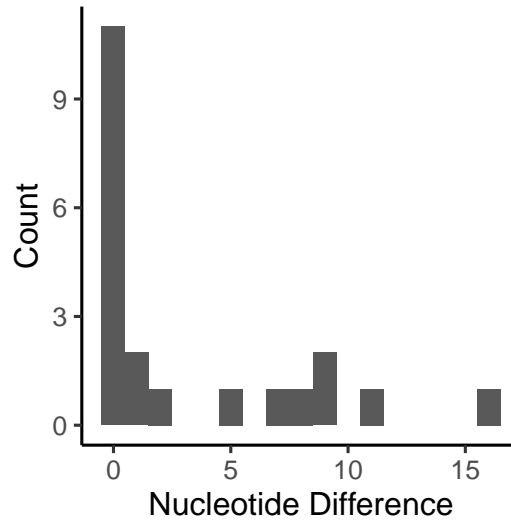
IGHV2-5*02

126 sequences assigned
79 (62.7%) exact matches, in which:
79 unique CDR3
7 unique J



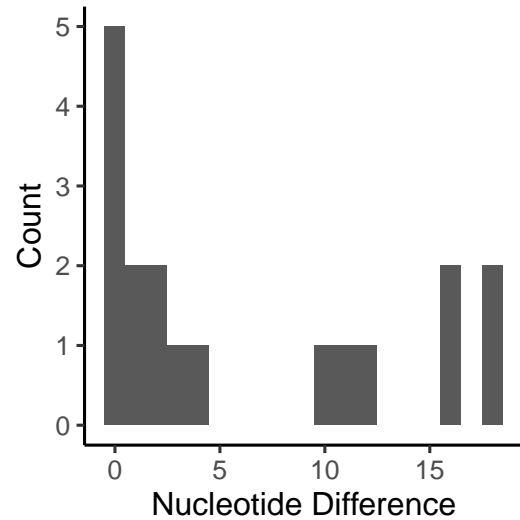
IGHV2-70*15

21 sequences assigned
11 (52.4%) exact matches, in which:
11 unique CDR3
4 unique J



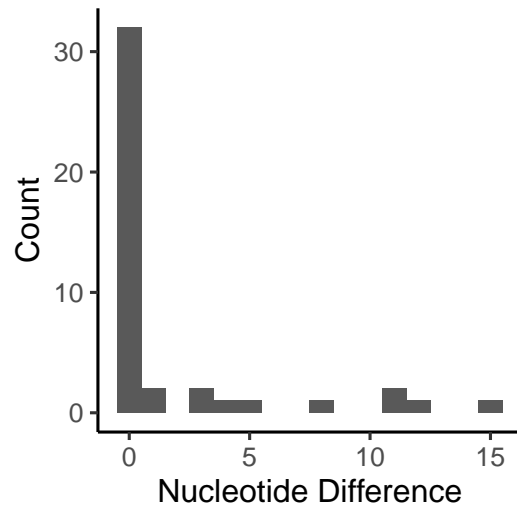
IGHV3-7*05

20 sequences assigned
5 (25%) exact matches, in which:
5 unique CDR3
4 unique J



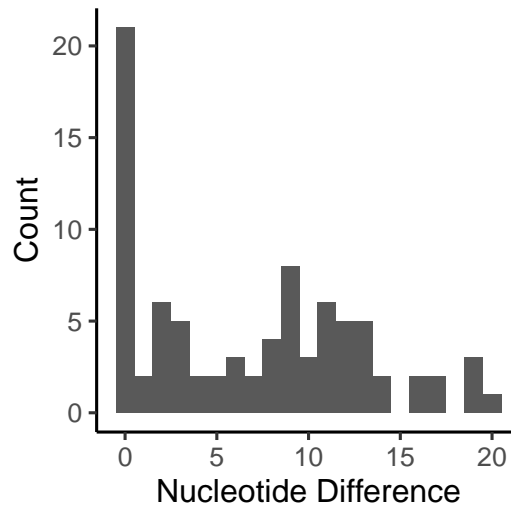
IGHV2-26*01

45 sequences assigned
32 (71.1%) exact matches, in which:
32 unique CDR3
6 unique J



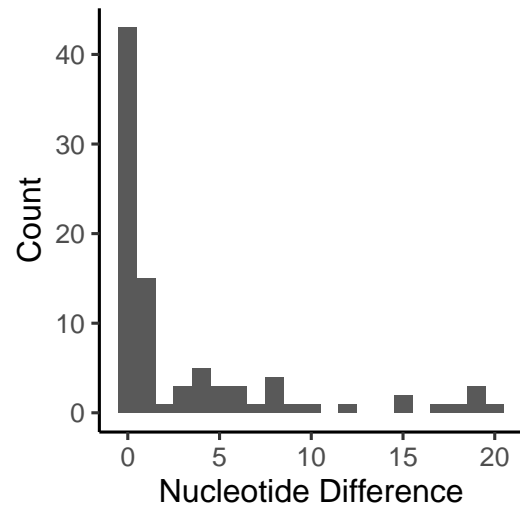
IGHV3-7*01

93 sequences assigned
21 (22.6%) exact matches, in which:
20 unique CDR3
6 unique J



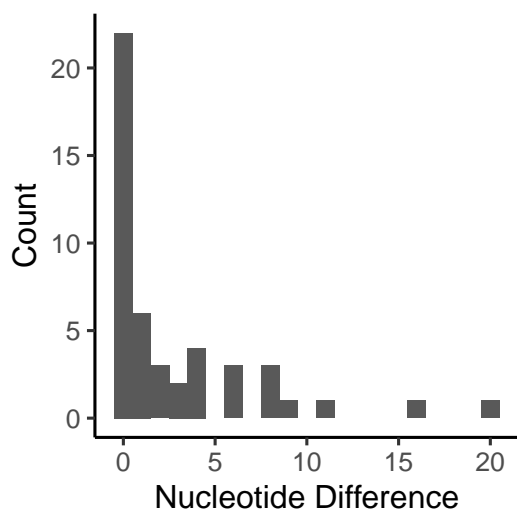
IGHV3-9*01

90 sequences assigned
43 (47.8%) exact matches, in which:
43 unique CDR3
5 unique J



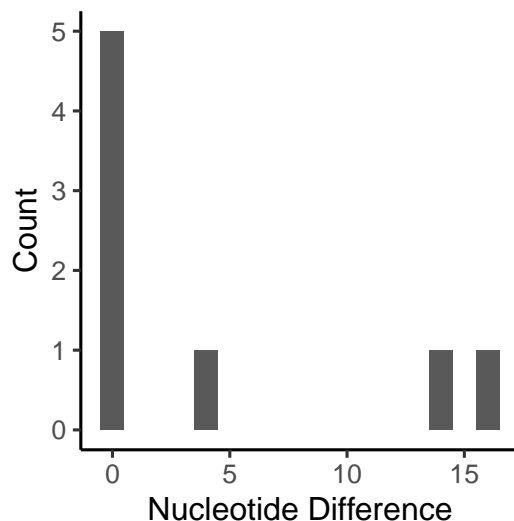
IGHV3-11*01

49 sequences assigned
22 (44.9%) exact matches, in which:
22 unique CDR3
5 unique J



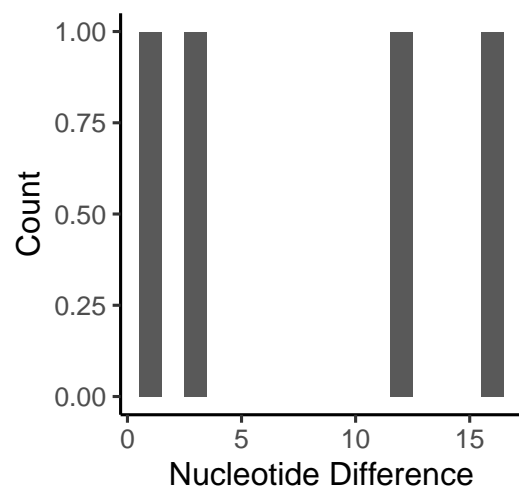
IGHV3-13*01

8 sequences assigned
5 (62.5%) exact matches, in which:
5 unique CDR3
3 unique J



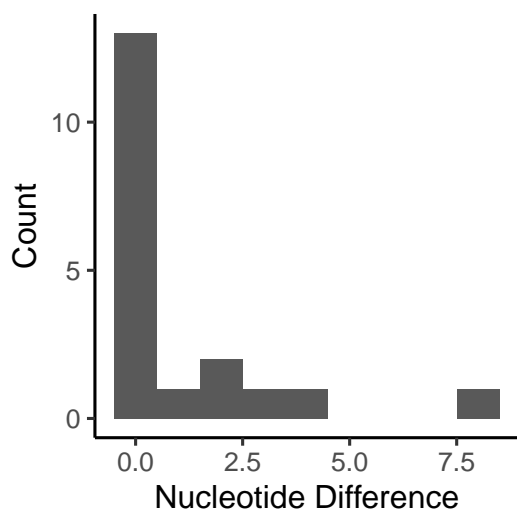
IGHV3-20*01

4 sequences assigned
No exact matches.



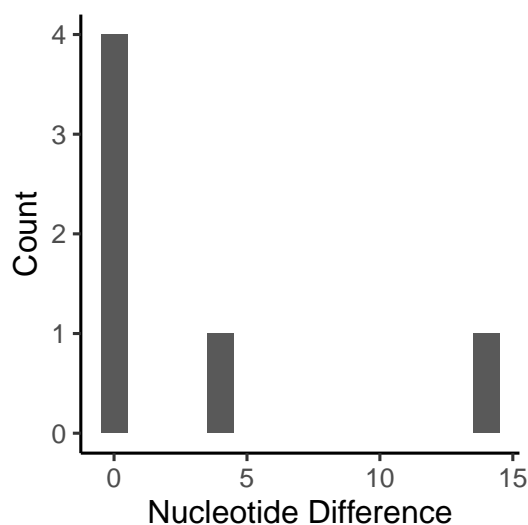
IGHV3-11*05

21 sequences assigned
13 (61.9%) exact matches, in which:
13 unique CDR3
4 unique J



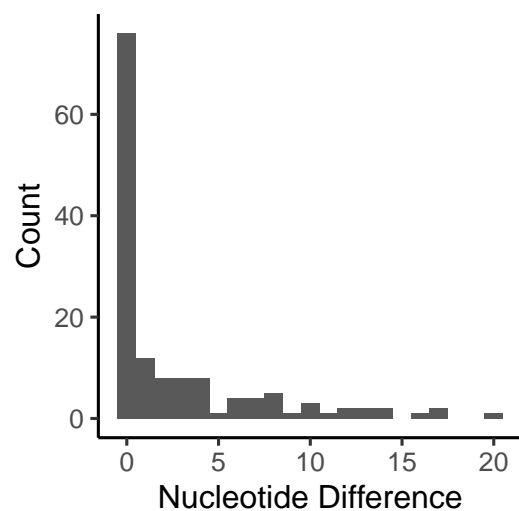
IGHV3-13*04

6 sequences assigned
4 (66.7%) exact matches, in which:
4 unique CDR3
4 unique J



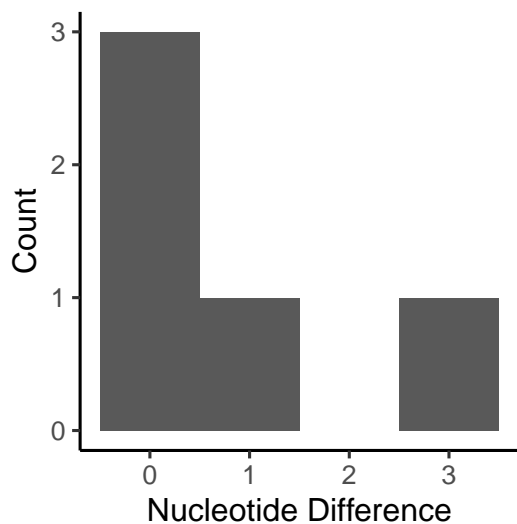
IGHV3-21*01

148 sequences assigned
76 (51.4%) exact matches, in which:
76 unique CDR3
7 unique J



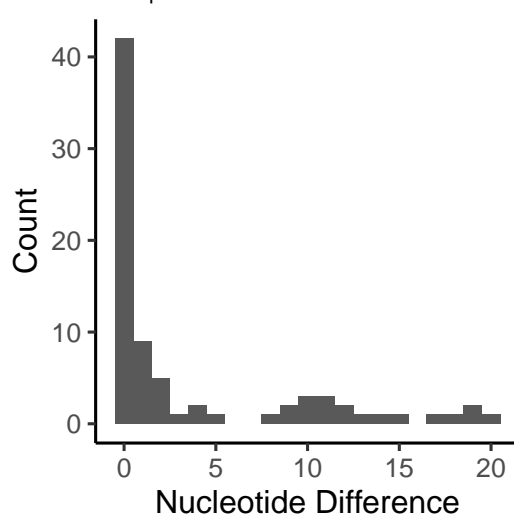
IGHV3-11*06

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



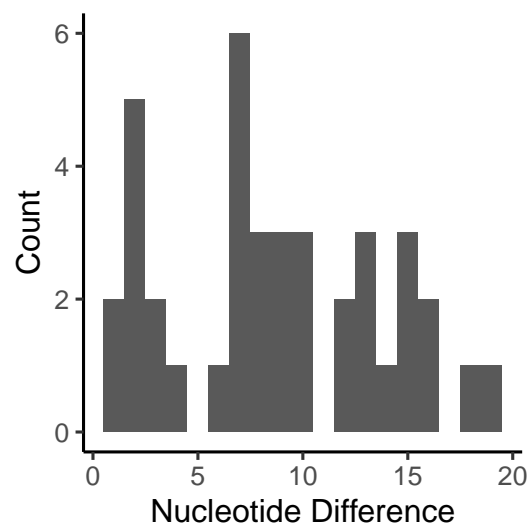
IGHV3-15*01

82 sequences assigned
42 (51.2%) exact matches, in which:
41 unique CDR3
5 unique J



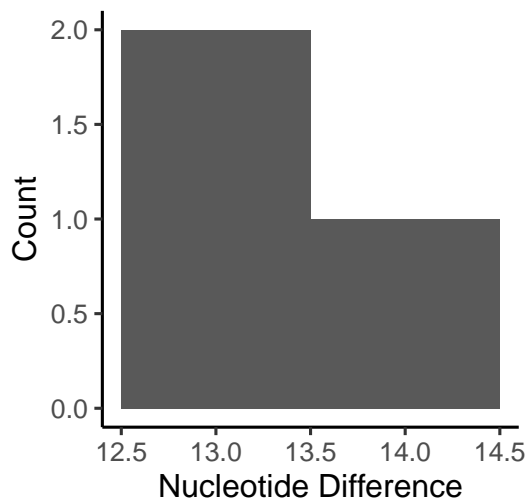
IGHV3-23*04

43 sequences assigned
No exact matches.



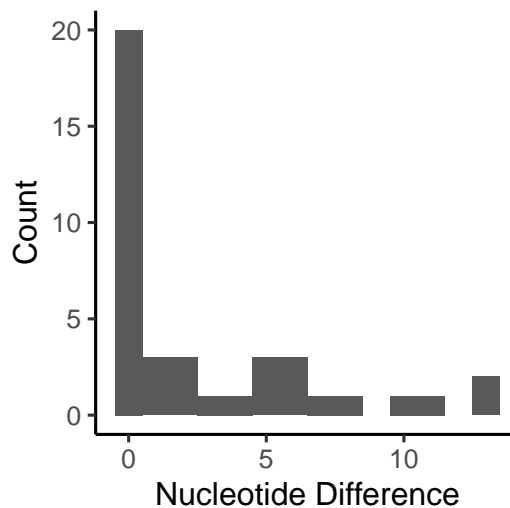
IGHV3-30-3*01

3 sequences assigned
No exact matches.



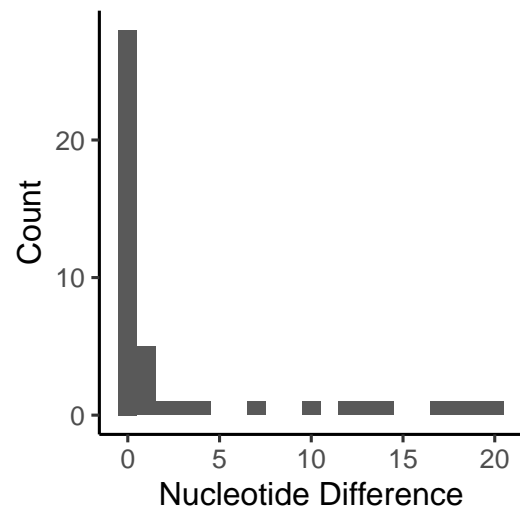
IGHV3-33*06

40 sequences assigned
20 (50%) exact matches, in which:
20 unique CDR3
5 unique J



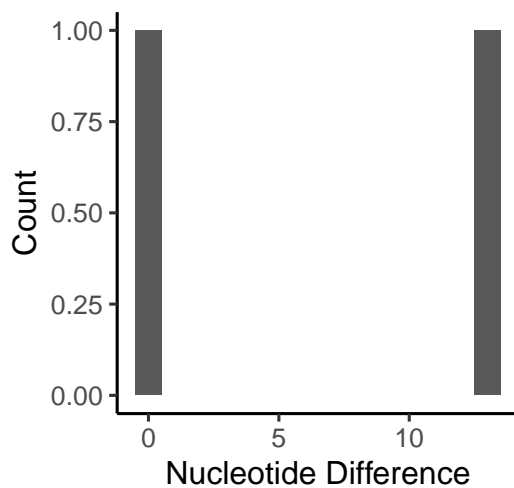
IGHV3-48*02

46 sequences assigned
28 (60.9%) exact matches, in which:
28 unique CDR3
5 unique J



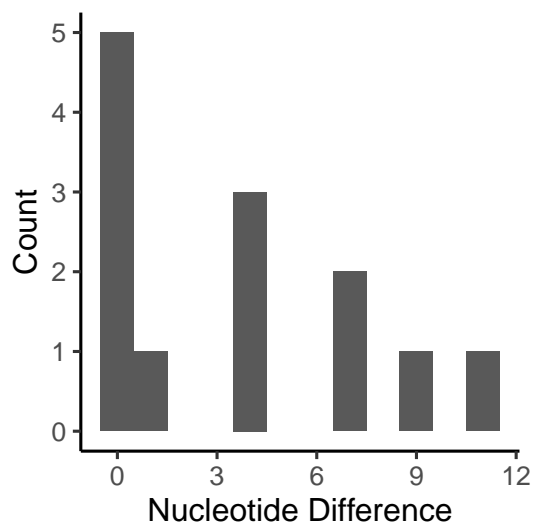
IGHV3-30-3*02

2 sequences assigned
1 (50%) exact matches, in which:
1 unique CDR3
1 unique J



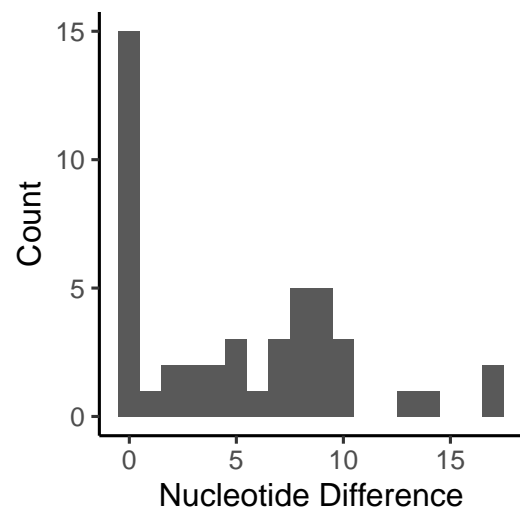
IGHV3-43*01

14 sequences assigned
5 (35.7%) exact matches, in which:
5 unique CDR3
2 unique J



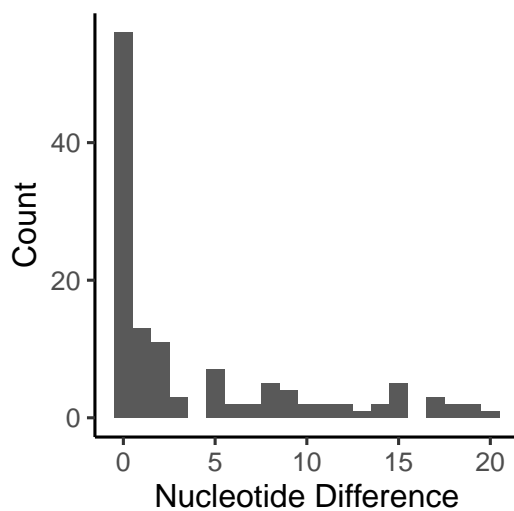
IGHV3-48*04

46 sequences assigned
15 (32.6%) exact matches, in which:
15 unique CDR3
3 unique J



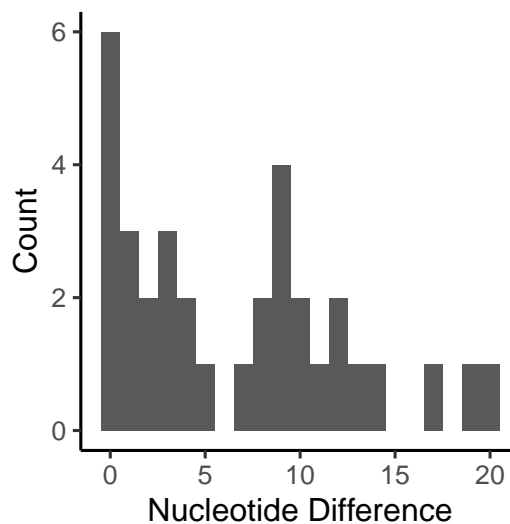
IGHV3-33*01

125 sequences assigned
56 (44.8%) exact matches, in which:
56 unique CDR3
6 unique J



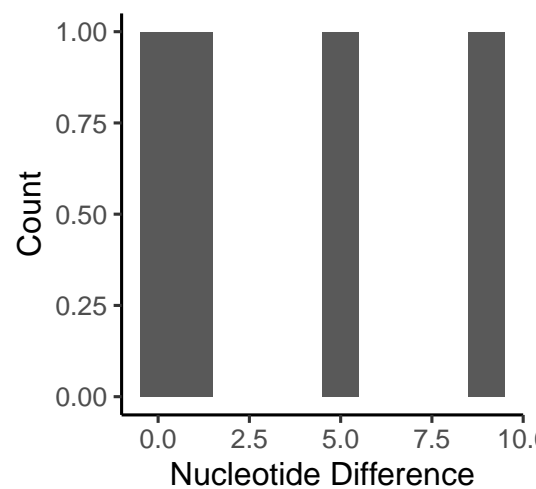
IGHV3-48*01

34 sequences assigned
6 (17.6%) exact matches, in which:
6 unique CDR3
3 unique J



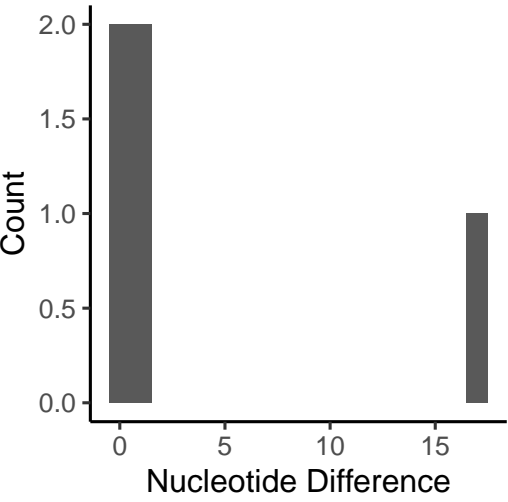
IGHV3-49*03

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



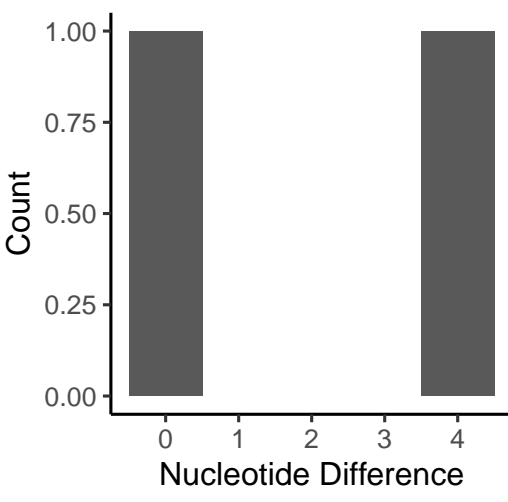
IGHV3-49*05

6 sequences assigned
2 (33.3%) exact matches, in which:
2 unique CDR3
2 unique J



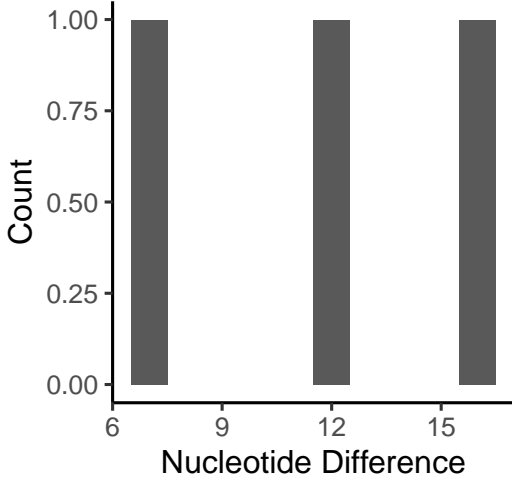
IGHV3-64*01

2 sequences assigned
1 (50%) exact matches, in which:
1 unique CDR3
1 unique J



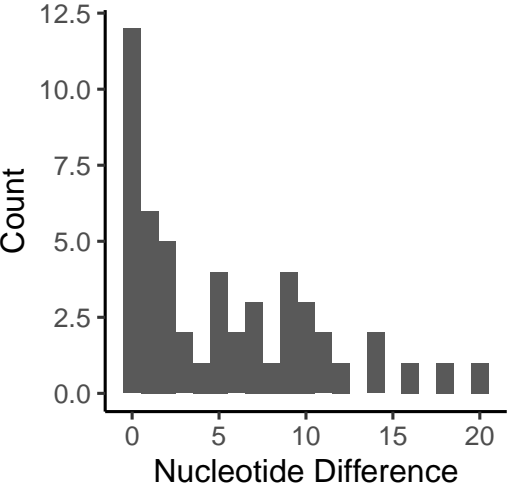
IGHV3-69-1*01

3 sequences assigned
No exact matches.



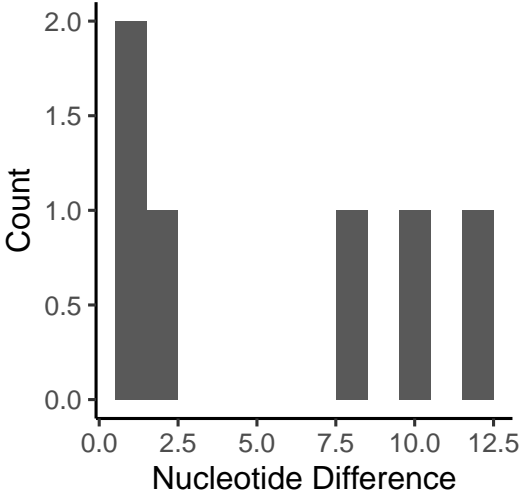
IGHV3-53*01

52 sequences assigned
12 (23.1%) exact matches, in which:
12 unique CDR3
3 unique J



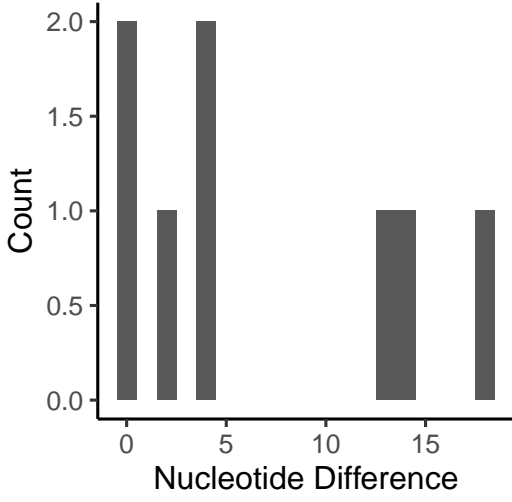
IGHV3-64*04

6 sequences assigned
No exact matches.



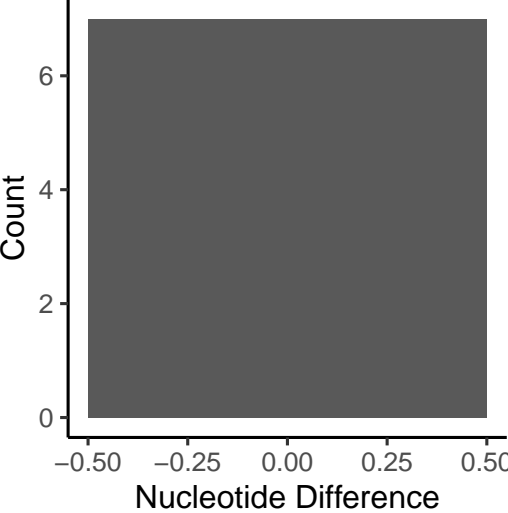
IGHV3-72*01

9 sequences assigned
2 (22.2%) exact matches, in which:
2 unique CDR3
2 unique J



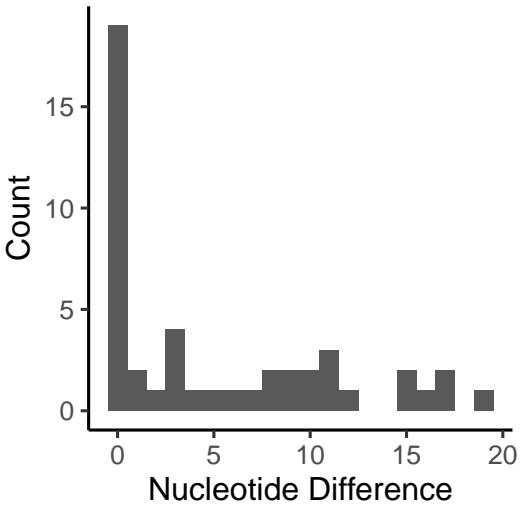
IGHV3-53*04

7 sequences assigned
7 (100%) exact matches, in which:
7 unique CDR3
5 unique J



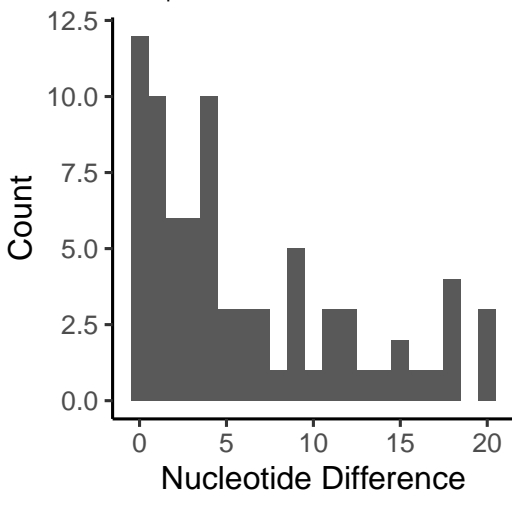
IGHV3-66*01

48 sequences assigned
19 (39.6%) exact matches, in which:
19 unique CDR3
5 unique J



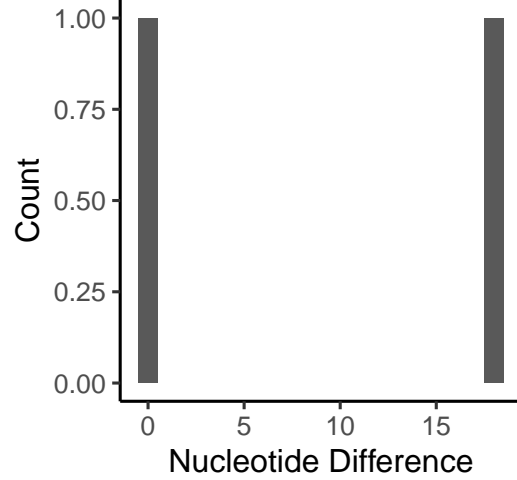
IGHV3-74*01

83 sequences assigned
12 (14.5%) exact matches, in which:
12 unique CDR3
4 unique J



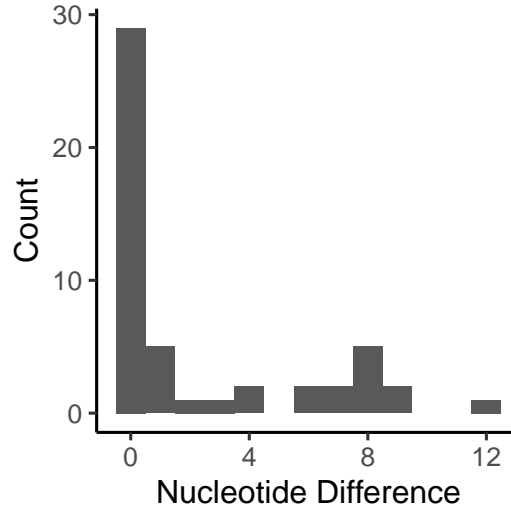
IGHV3-43D*03

2 sequences assigned
1 (50%) exact matches, in which:
1 unique CDR3
1 unique J



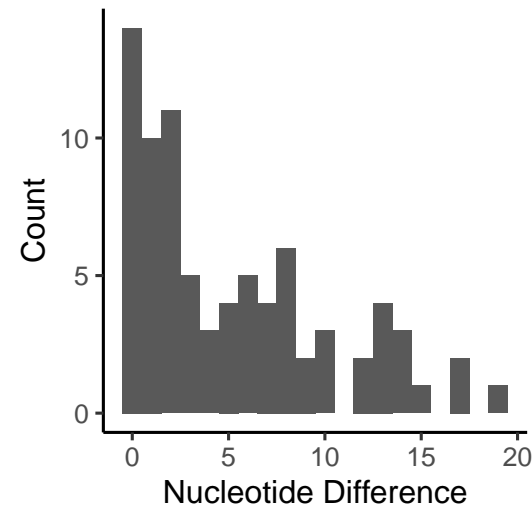
IGHV4-4*07

54 sequences assigned
29 (53.7%) exact matches, in which:
29 unique CDR3
5 unique J



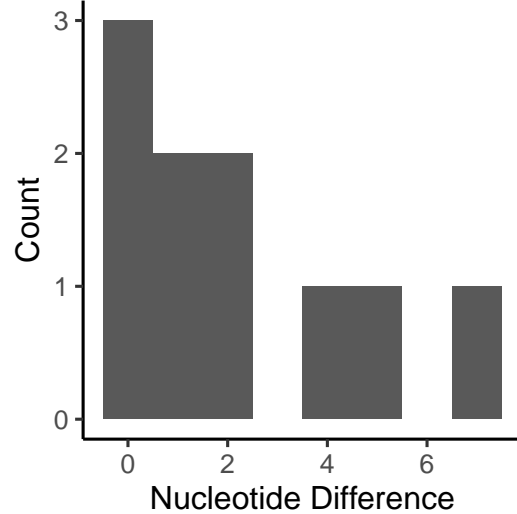
IGHV4-38-2*02

83 sequences assigned
14 (16.9%) exact matches, in which:
14 unique CDR3
4 unique J



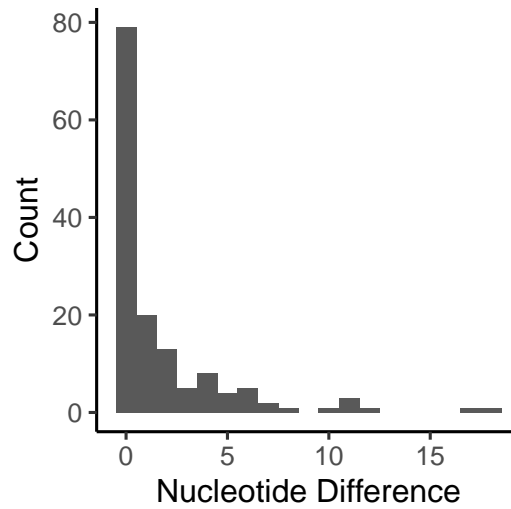
IGHV3-64D*09

11 sequences assigned
3 (27.3%) exact matches, in which:
3 unique CDR3
2 unique J



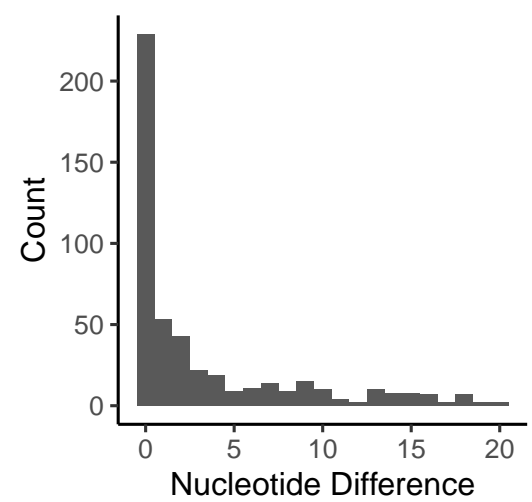
IGHV4-31*03

145 sequences assigned
79 (54.5%) exact matches, in which:
79 unique CDR3
6 unique J



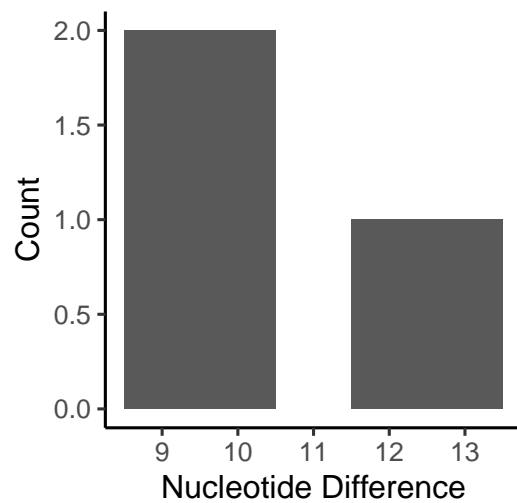
IGHV4-39*07

504 sequences assigned
229 (45.4%) exact matches, in which:
228 unique CDR3
6 unique J



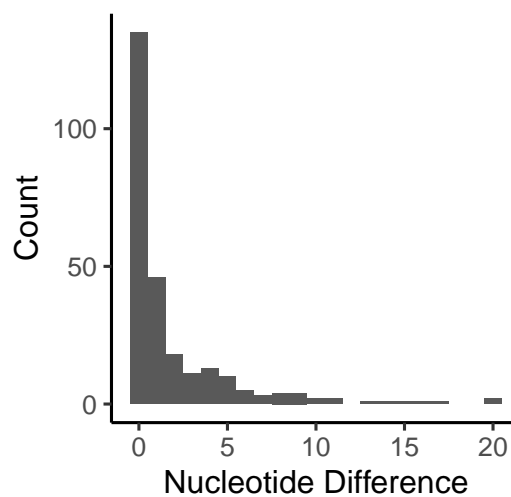
IGHV3-NL1*01

6 sequences assigned
No exact matches.



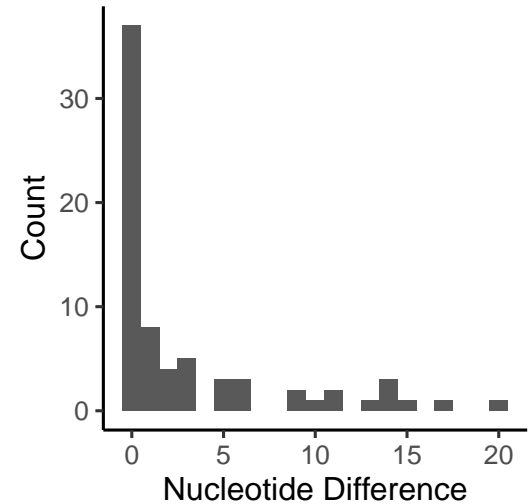
IGHV4-34*01

264 sequences assigned
135 (51.1%) exact matches, in which:
135 unique CDR3
7 unique J



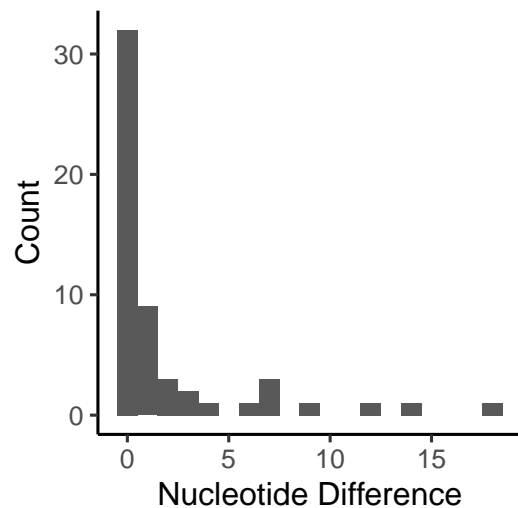
IGHV4-59*01

73 sequences assigned
37 (50.7%) exact matches, in which:
37 unique CDR3
7 unique J



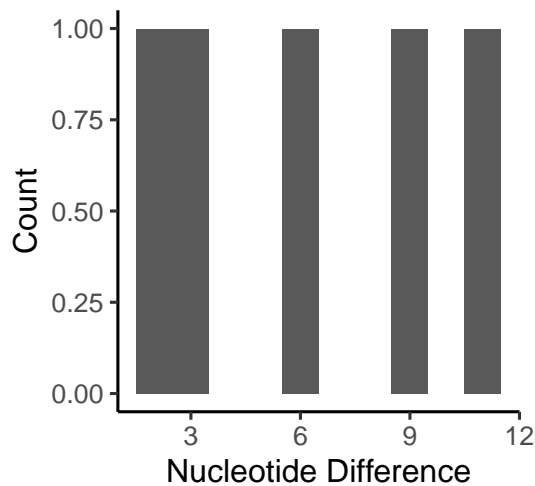
IGHV4-59*08

58 sequences assigned
32 (55.2%) exact matches, in which:
32 unique CDR3
6 unique J



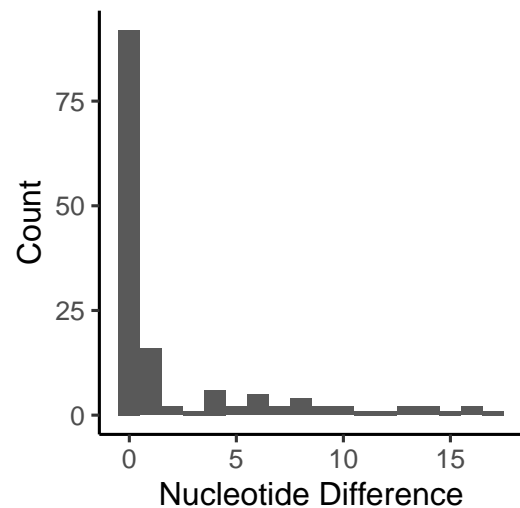
IGHV4-61*02

5 sequences assigned
No exact matches.



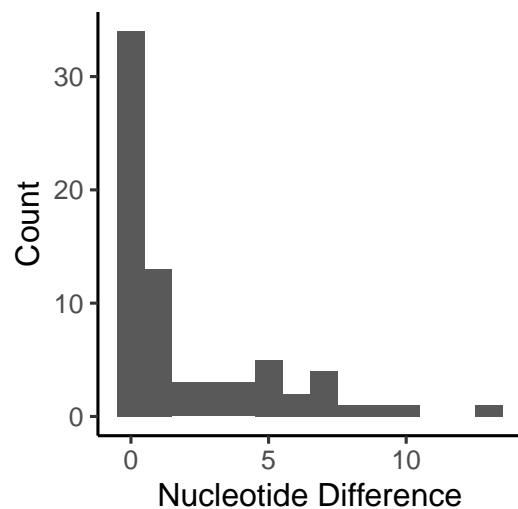
IGHV5-51*01

150 sequences assigned
92 (61.3%) exact matches, in which:
91 unique CDR3
7 unique J



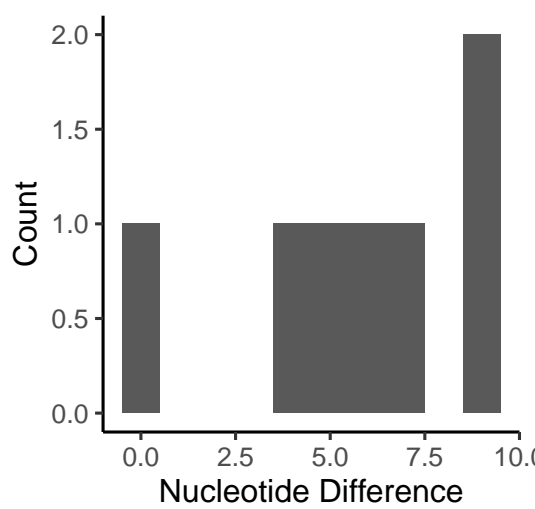
IGHV4-59*12

73 sequences assigned
34 (46.6%) exact matches, in which:
34 unique CDR3
6 unique J



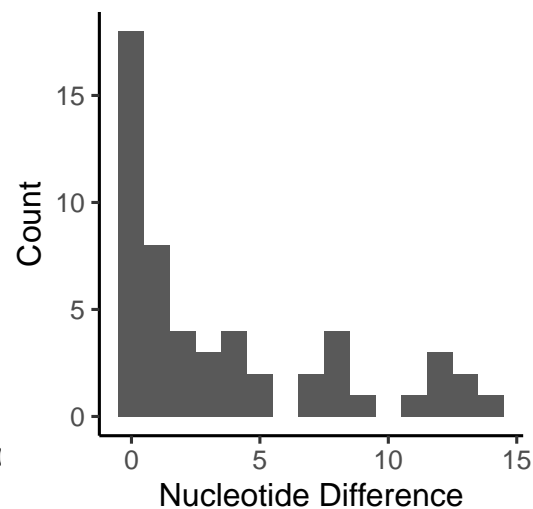
IGHV4-61*08

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



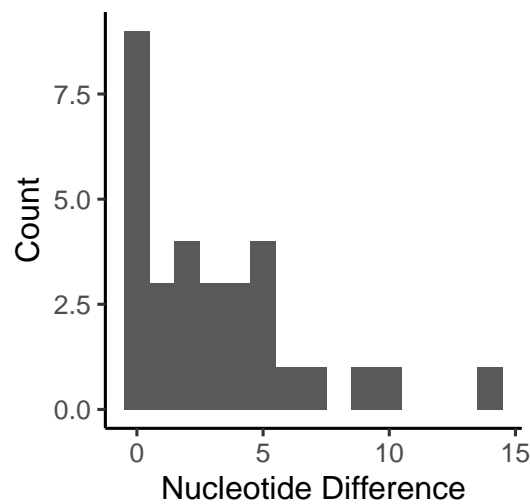
IGHV6-1*01

54 sequences assigned
18 (33.3%) exact matches, in which:
18 unique CDR3
6 unique J



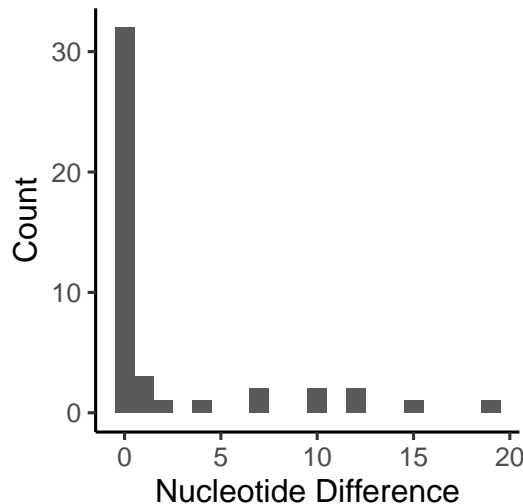
IGHV4-61*01

31 sequences assigned
9 (29%) exact matches, in which:
9 unique CDR3
4 unique J



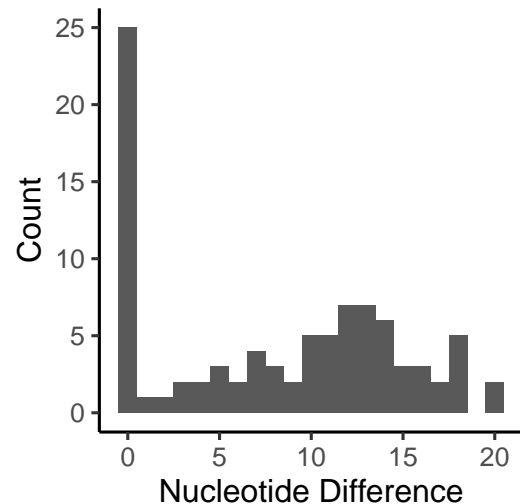
IGHV5-10-1*01

48 sequences assigned
32 (66.7%) exact matches, in which:
32 unique CDR3
5 unique J

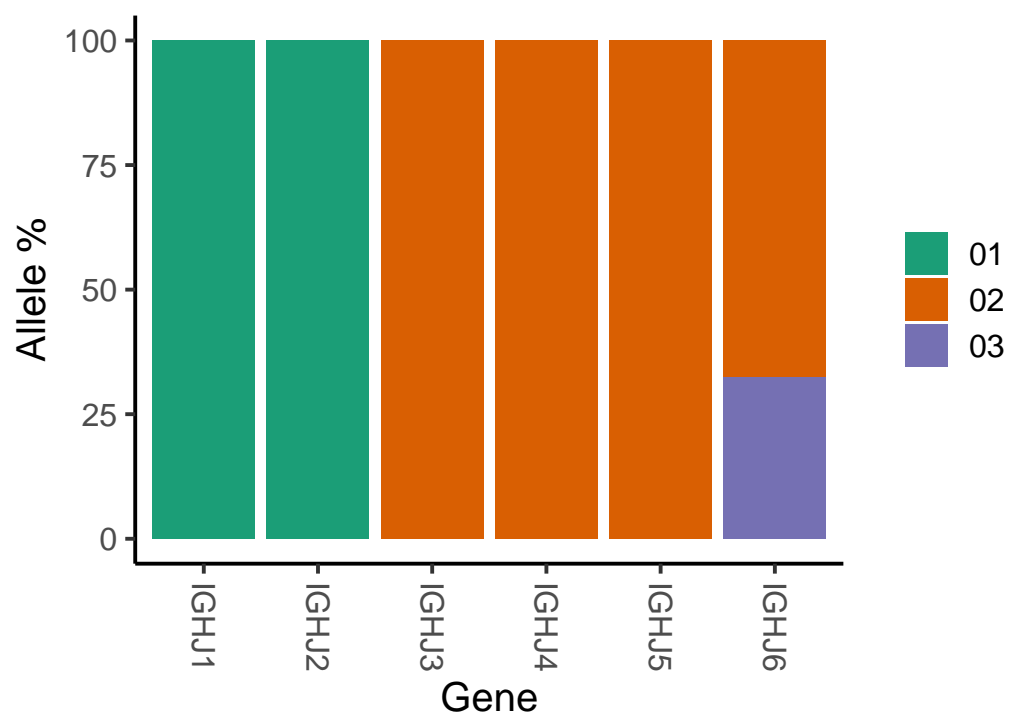


IGHV7-4-1*02

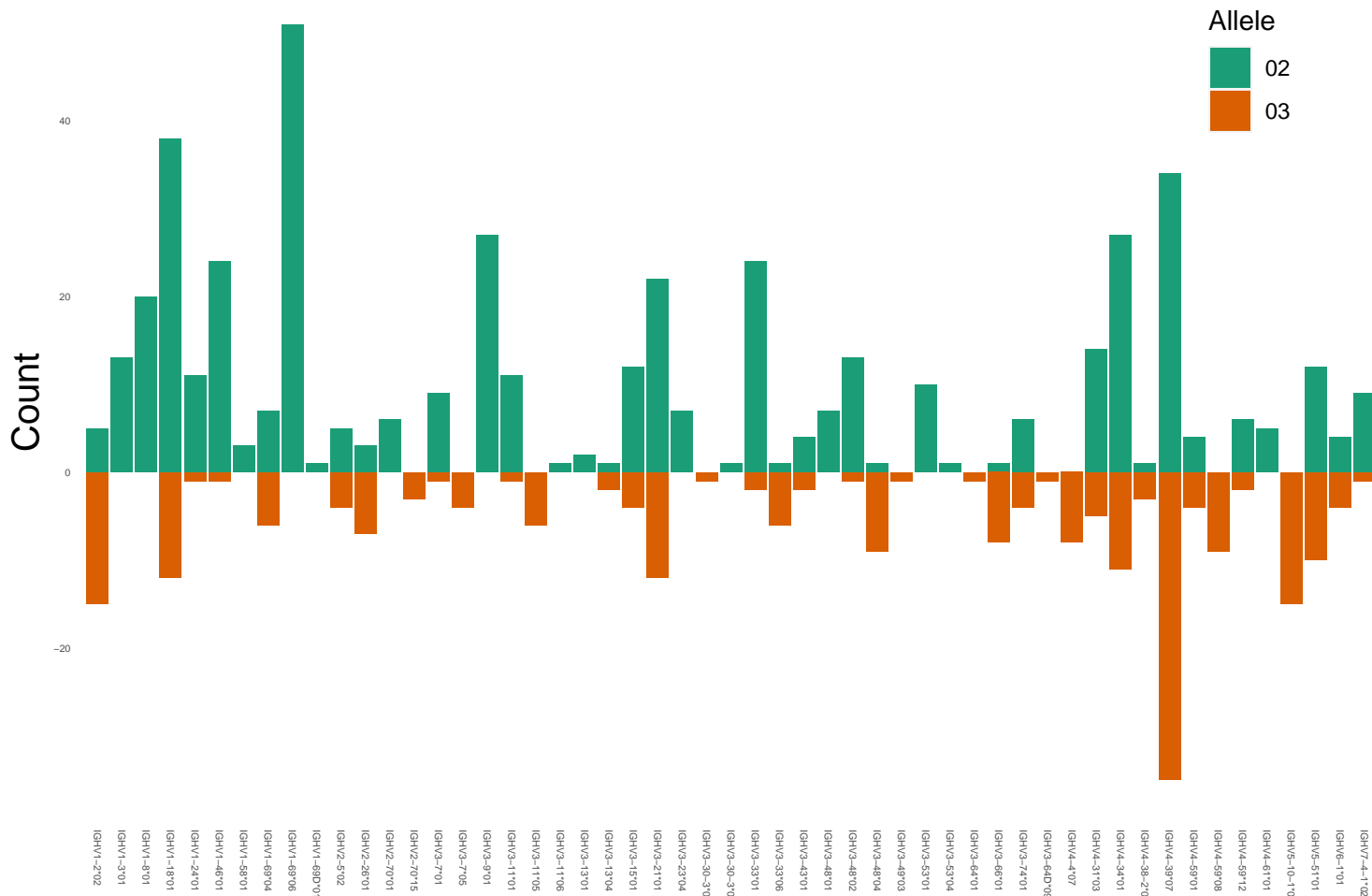
96 sequences assigned
25 (26%) exact matches, in which:
24 unique CDR3
6 unique J



Allele Usage



Sequence Count by IGHJ6 allele usage



Warning – no inferred sequences found.

Warning – no inferred sequences found.