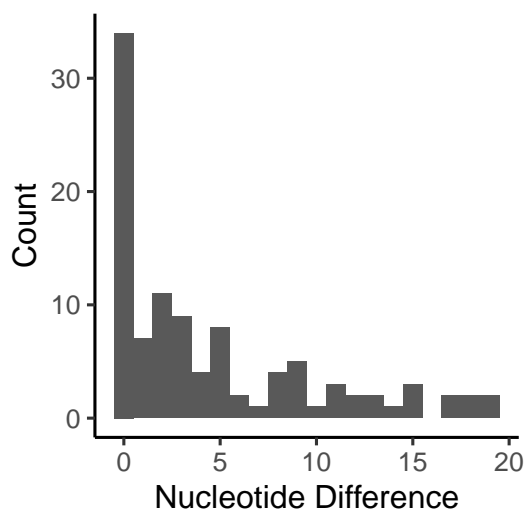


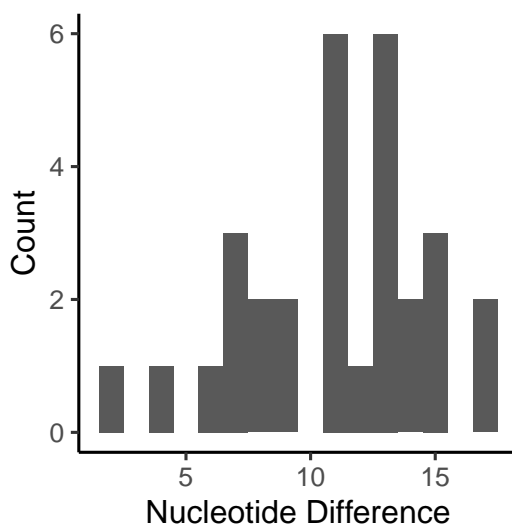
IGHV1-2*02

108 sequences assigned
34 (31.5%) exact matches, in which:
34 unique CDR3
5 unique J



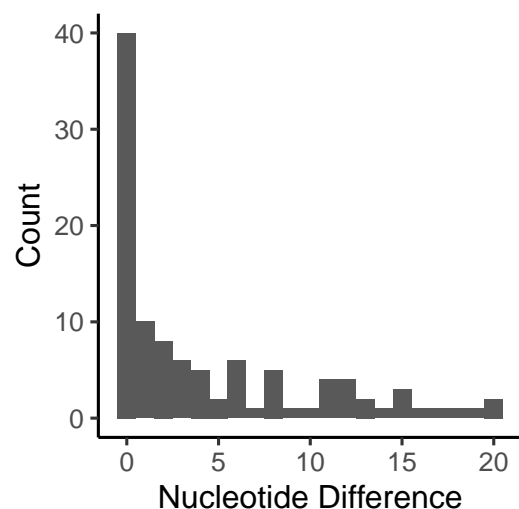
IGHV1-8*02

30 sequences assigned
No exact matches.



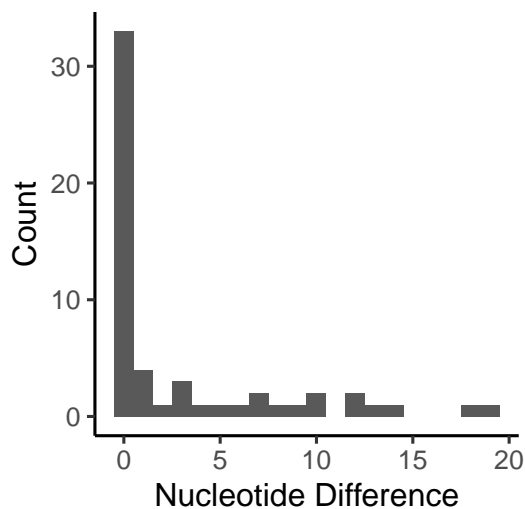
IGHV1-46*01

109 sequences assigned
40 (36.7%) exact matches, in which:
40 unique CDR3
6 unique J



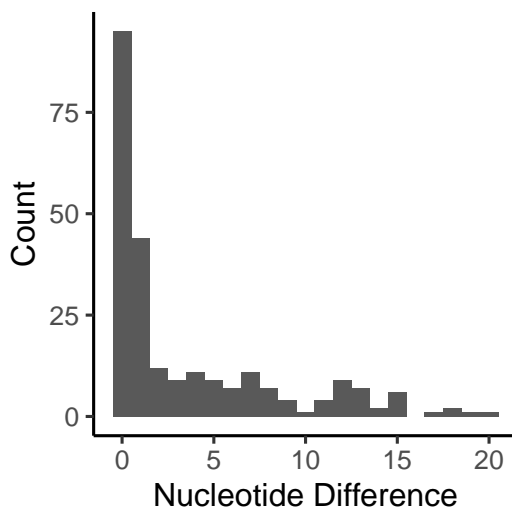
IGHV1-3*01

59 sequences assigned
33 (55.9%) exact matches, in which:
30 unique CDR3
5 unique J



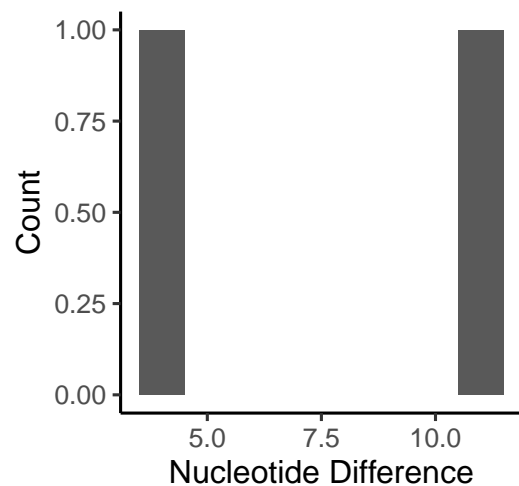
IGHV1-18*01

256 sequences assigned
95 (37.1%) exact matches, in which:
93 unique CDR3
6 unique J



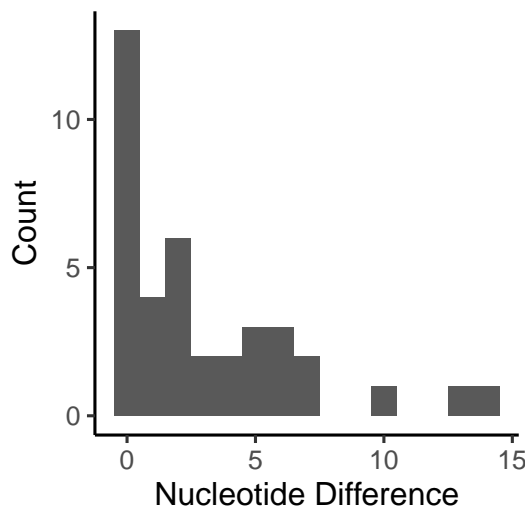
IGHV1-58*01

2 sequences assigned
No exact matches.



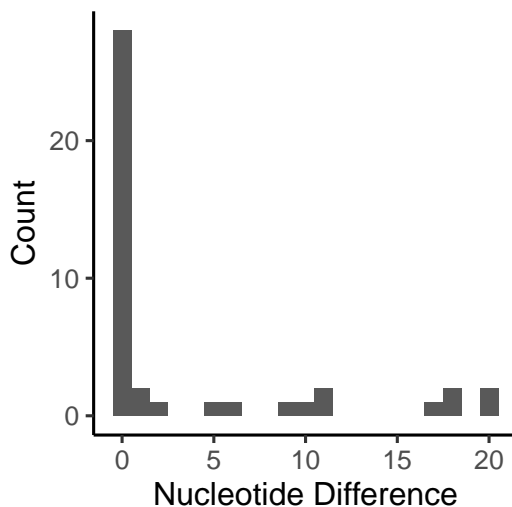
IGHV1-8*01

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



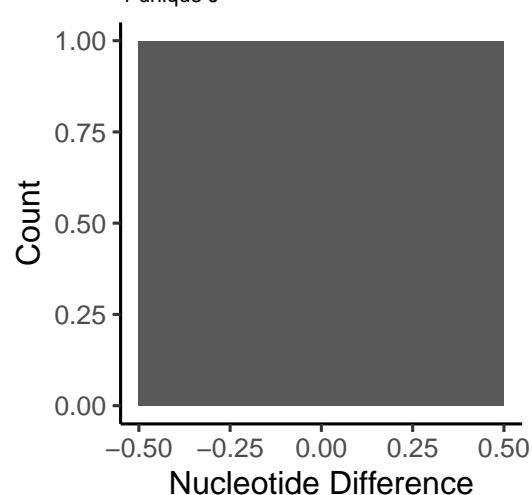
IGHV1-24*01

45 sequences assigned
28 (62.2%) exact matches, in which:
27 unique CDR3
6 unique J



IGHV1-58*02

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



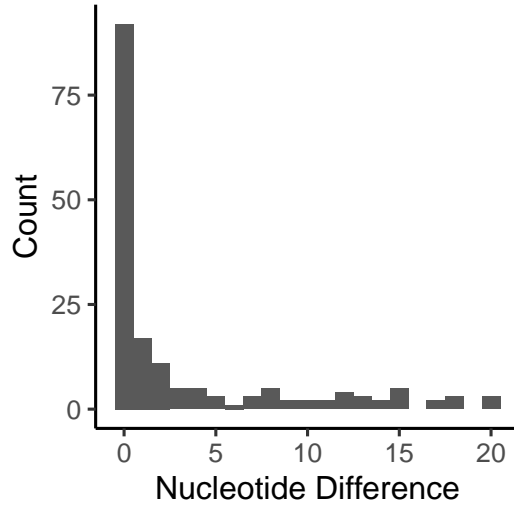
IGHV1-68*01

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



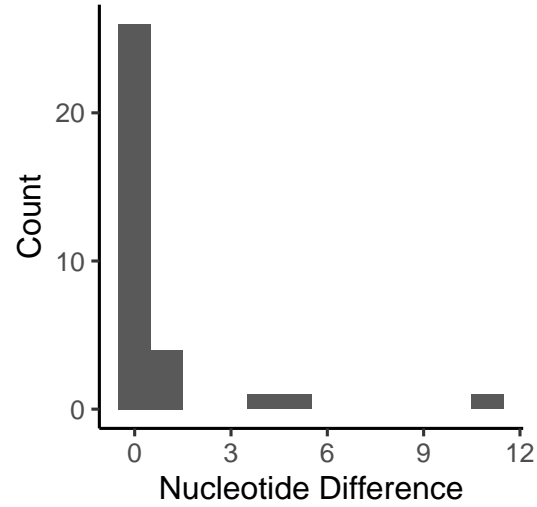
IGHV1-69*06

175 sequences assigned
92 (52.6%) exact matches, in which:
92 unique CDR3
5 unique J



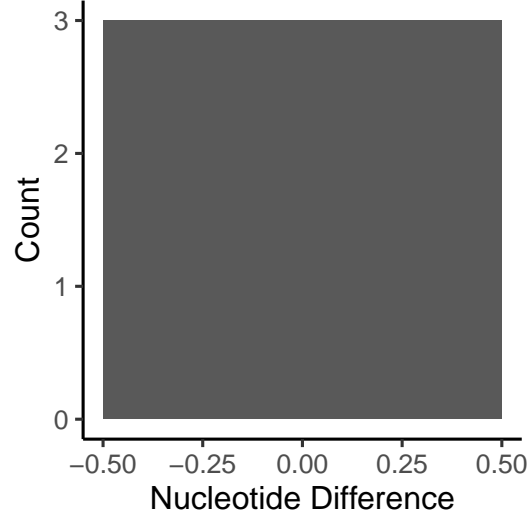
IGHV2-26*01

33 sequences assigned
26 (78.8%) exact matches, in which:
26 unique CDR3
5 unique J



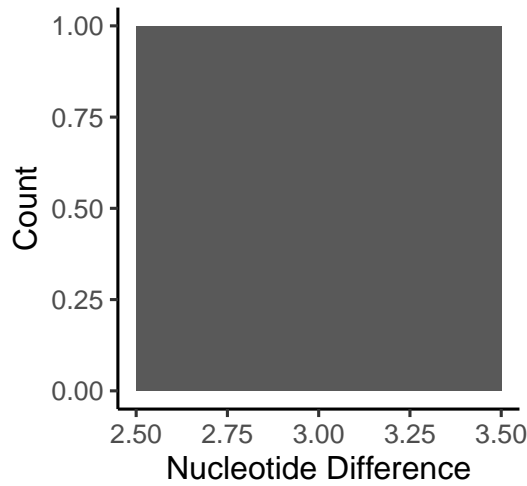
IGHV1-69-2*01

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



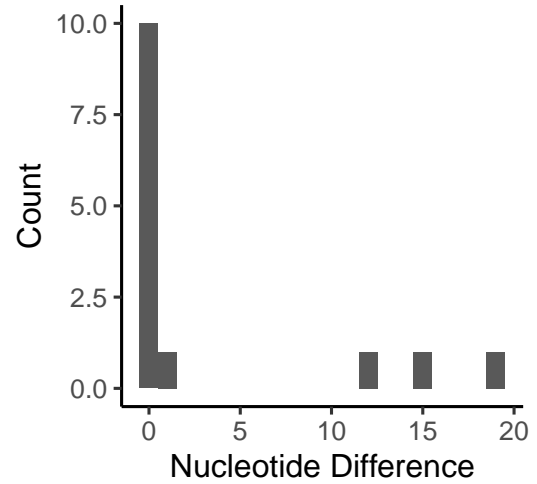
IGHV1-69D*01

1 sequences assigned
No exact matches.



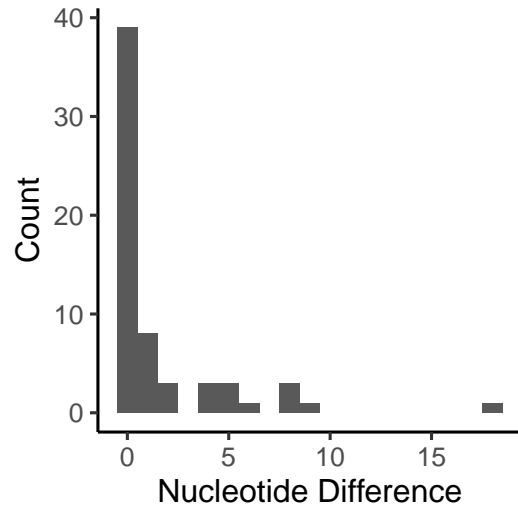
IGHV2-70*01

16 sequences assigned
10 (62.5%) exact matches, in which:
10 unique CDR3
4 unique J



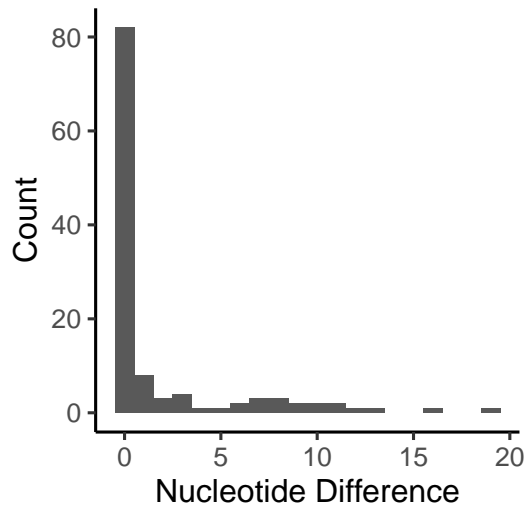
IGHV1-69*04

63 sequences assigned
39 (61.9%) exact matches, in which:
38 unique CDR3
6 unique J



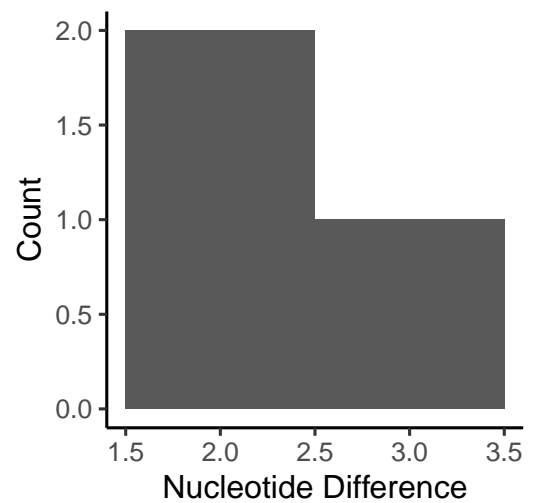
IGHV2-5*02

121 sequences assigned
82 (67.8%) exact matches, in which:
82 unique CDR3
6 unique J



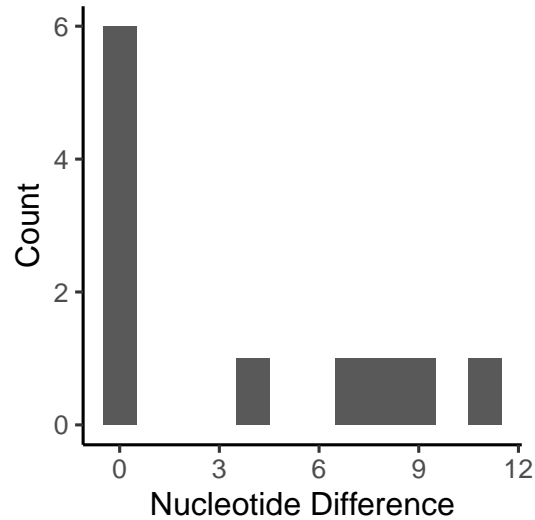
IGHV2-70*12

3 sequences assigned
No exact matches.



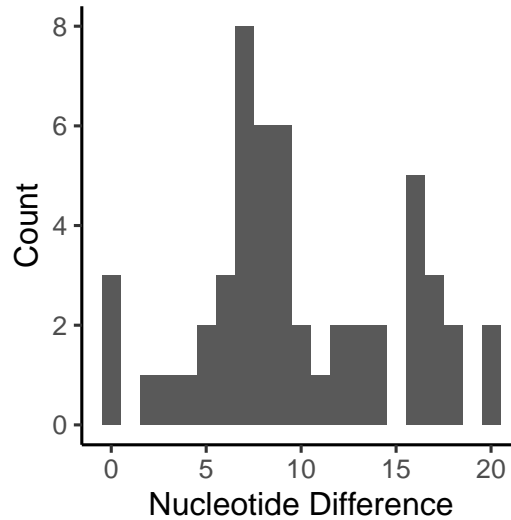
IGHV2-70*15

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



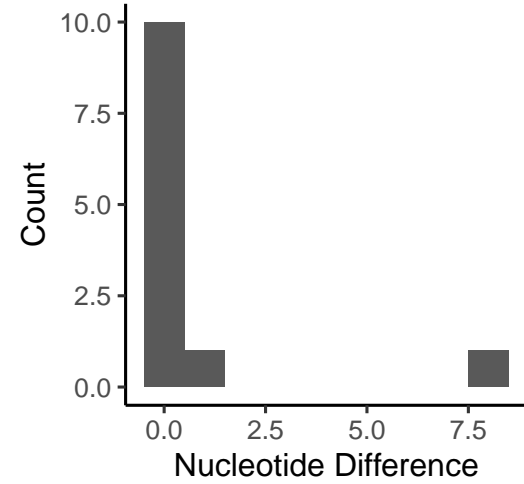
IGHV3-7*05

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



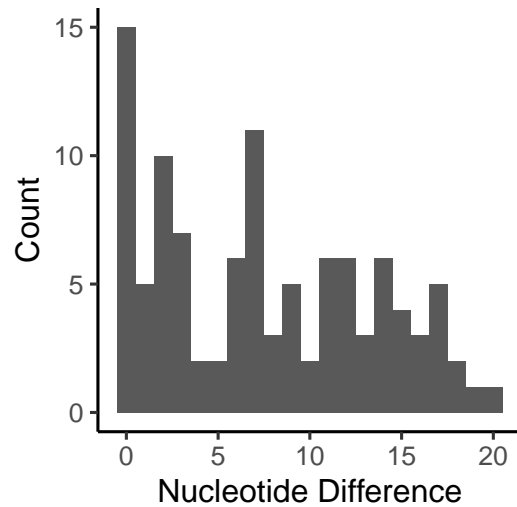
IGHV3-11*05

13 sequences assigned
10 (76.9%) exact matches, in which:
10 unique CDR3
3 unique J



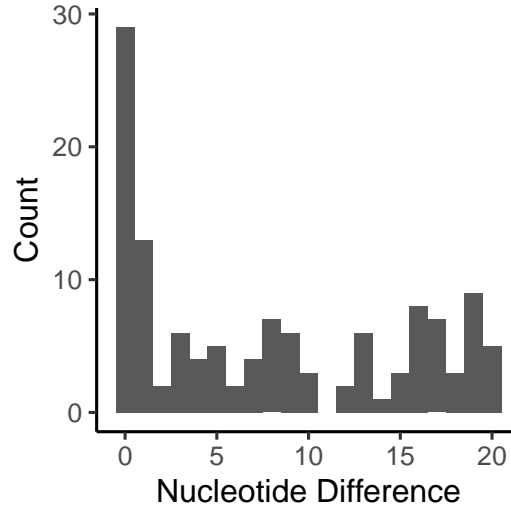
IGHV3-7*01

107 sequences assigned
15 (14%) exact matches, in which:
15 unique CDR3
5 unique J



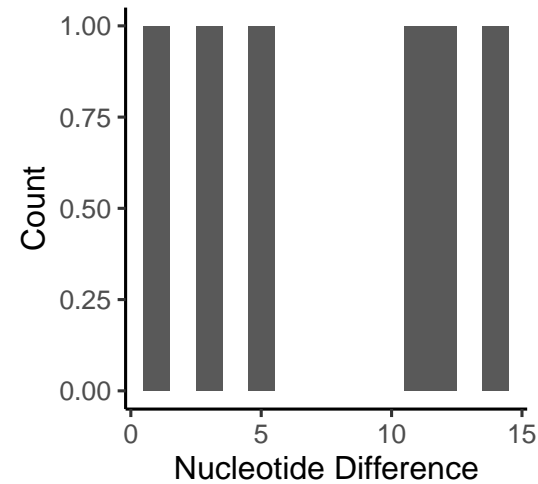
IGHV3-9*01

132 sequences assigned
29 (22%) exact matches, in which:
27 unique CDR3
4 unique J



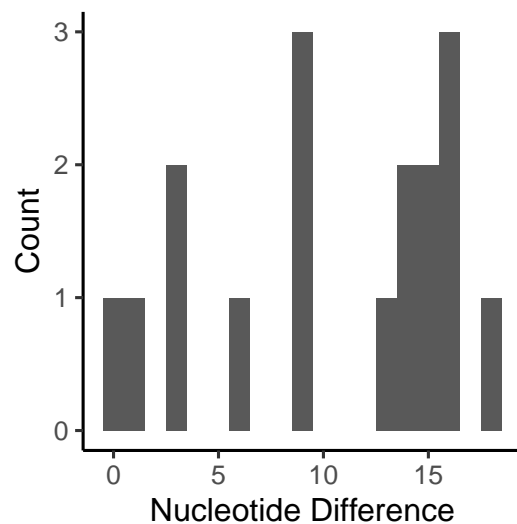
IGHV3-11*06

6 sequences assigned
No exact matches.



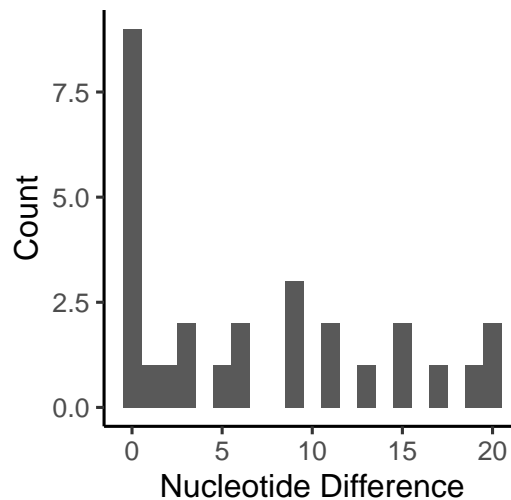
IGHV3-7*03

17 sequences assigned
1 (5.9%) exact matches, in which:
1 unique CDR3
1 unique J



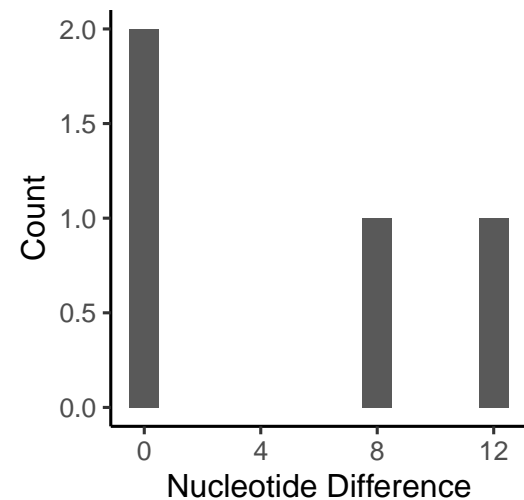
IGHV3-11*01

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



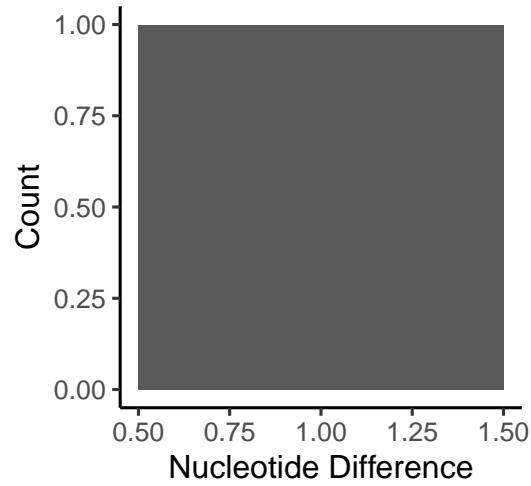
IGHV3-13*01

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



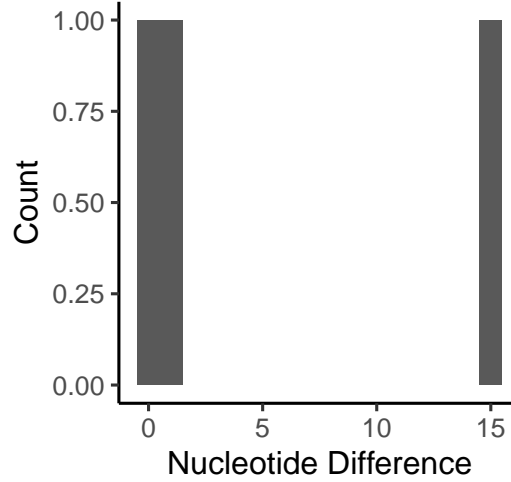
IGHV3-13*02

1 sequences assigned
No exact matches.



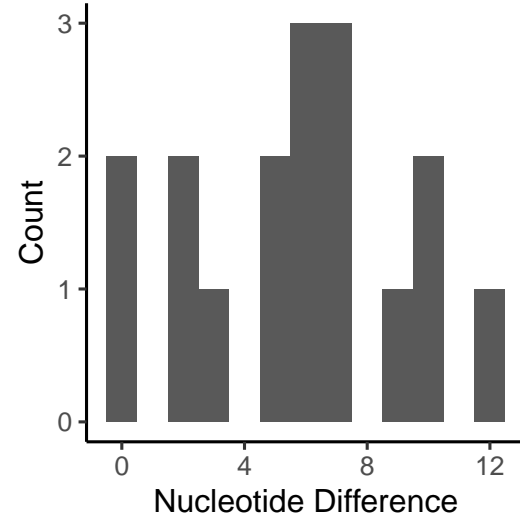
IGHV3-20*01

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



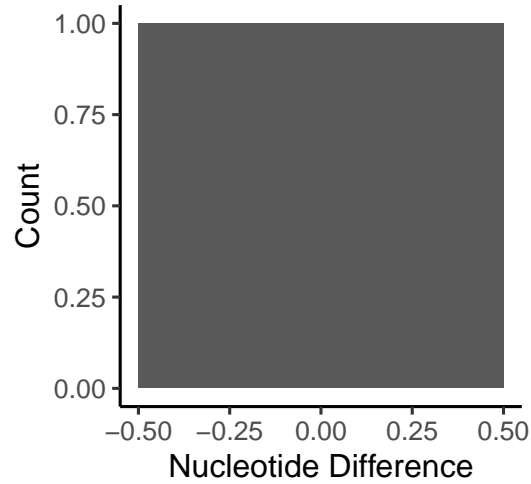
IGHV3-21*04

19 sequences assigned
2 (10.5%) exact matches, in which:
2 unique CDR3
2 unique J



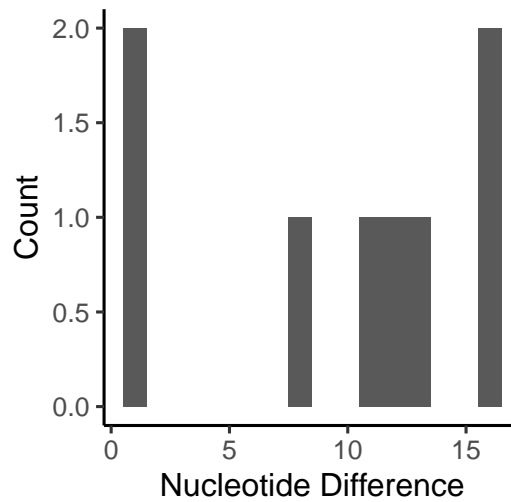
IGHV3-13*04

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



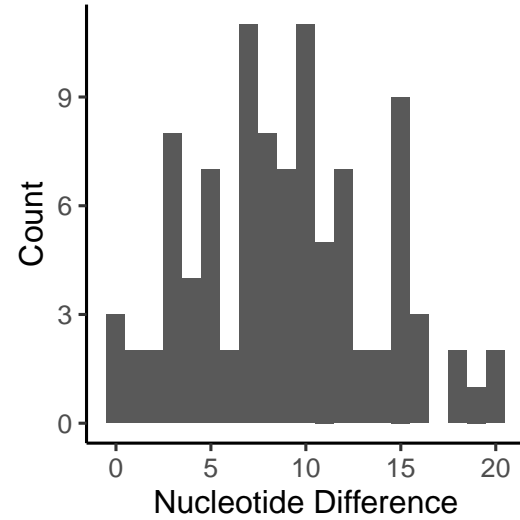
IGHV3-20*04

9 sequences assigned
No exact matches.



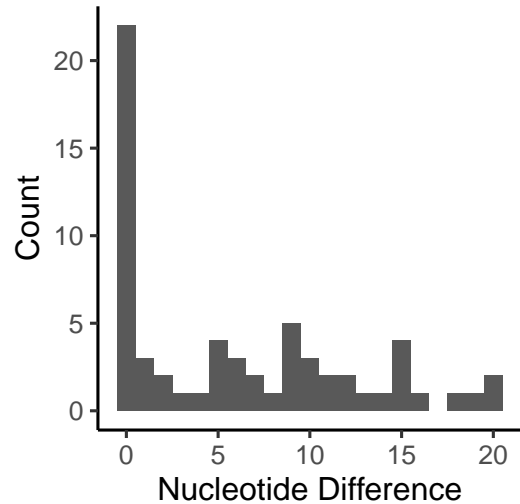
IGHV3-23*04

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



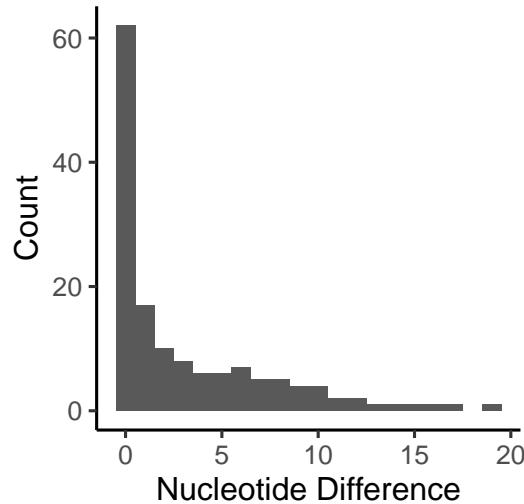
IGHV3-15*01

68 sequences assigned
22 (32.4%) exact matches, in which:
22 unique CDR3
5 unique J



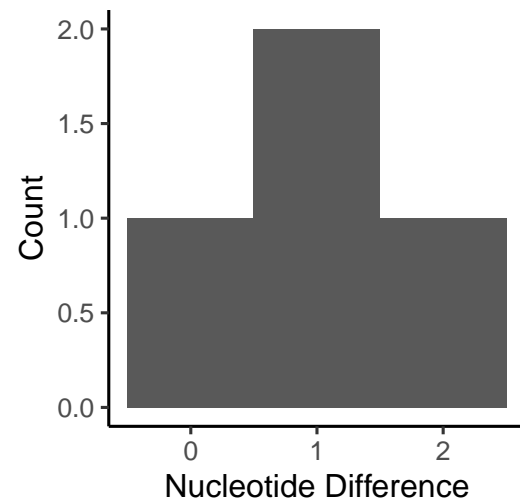
IGHV3-21*01

150 sequences assigned
62 (41.3%) exact matches, in which:
62 unique CDR3
6 unique J



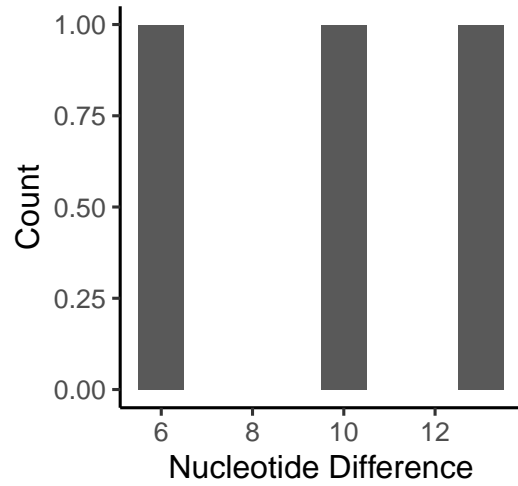
IGHV3-30-3*01

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



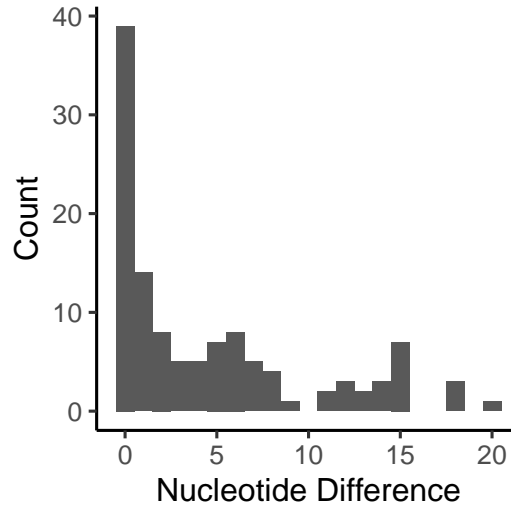
IGHV3-30-3*02

3 sequences assigned
No exact matches.



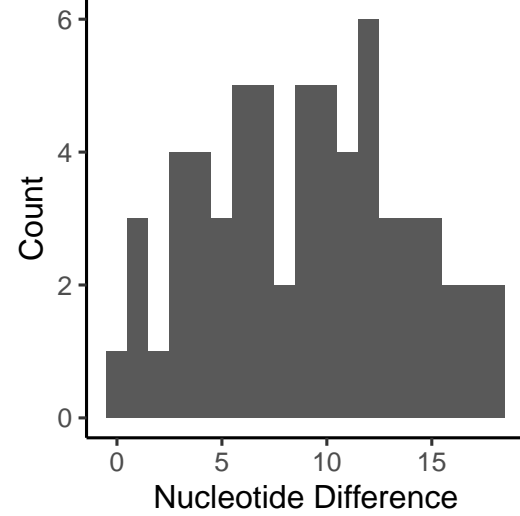
IGHV3-33*01

120 sequences assigned
39 (32.5%) exact matches, in which:
39 unique CDR3
6 unique J



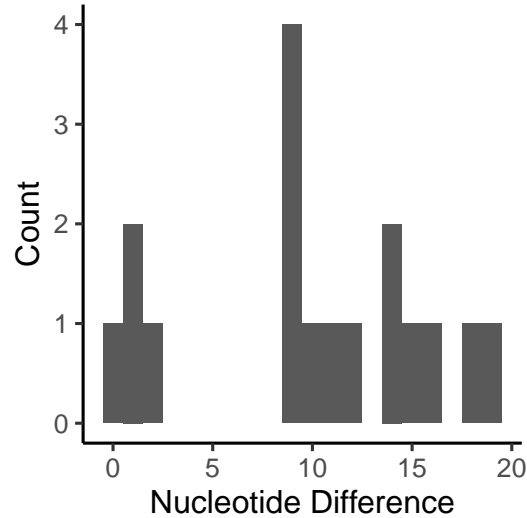
IGHV3-48*01

66 sequences assigned
1 (1.5%) exact matches, in which:
1 unique CDR3
1 unique J



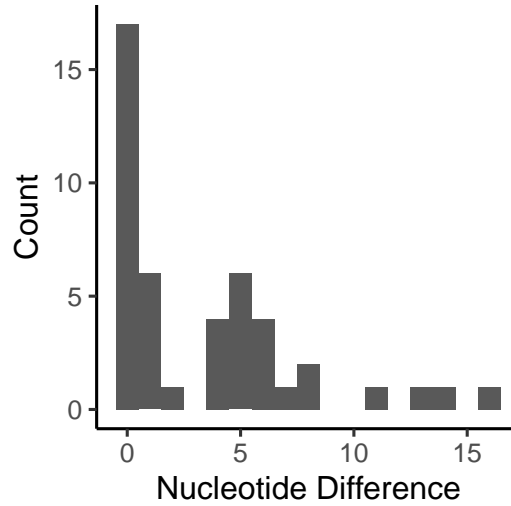
IGHV3-30*03

19 sequences assigned
1 (5.3%) exact matches, in which:
1 unique CDR3
1 unique J



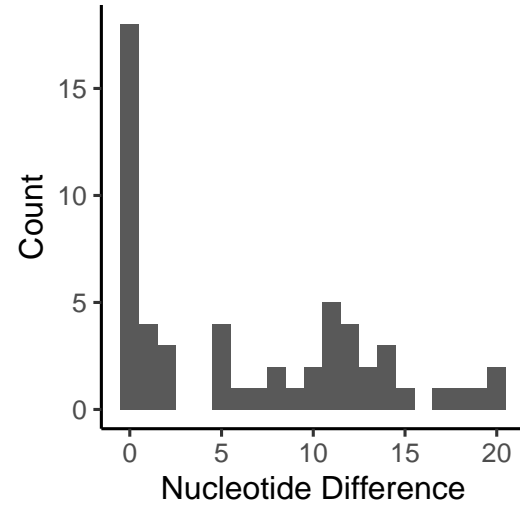
IGHV3-33*06

45 sequences assigned
17 (37.8%) exact matches, in which:
17 unique CDR3
5 unique J



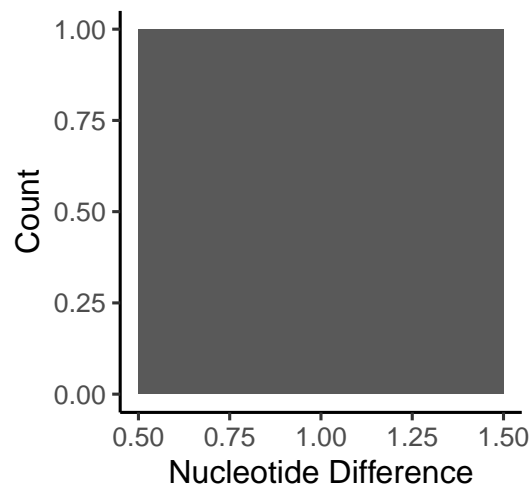
IGHV3-48*02

60 sequences assigned
18 (30%) exact matches, in which:
18 unique CDR3
5 unique J



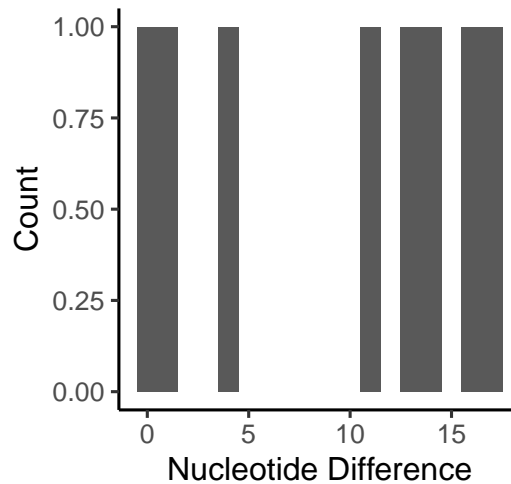
IGHV3-30*07

1 sequences assigned
No exact matches.



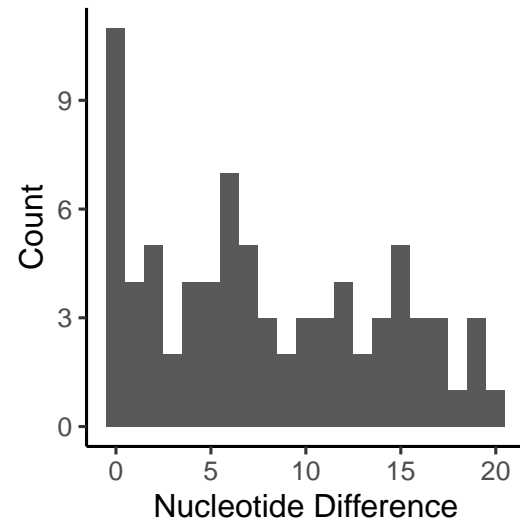
IGHV3-43*01

8 sequences assigned
1 (12.5%) exact matches, in which:
1 unique CDR3
1 unique J



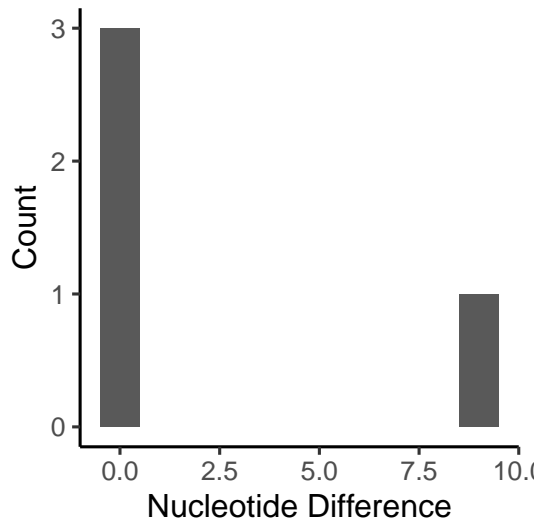
IGHV3-48*04

79 sequences assigned
11 (13.9%) exact matches, in which:
11 unique CDR3
3 unique J



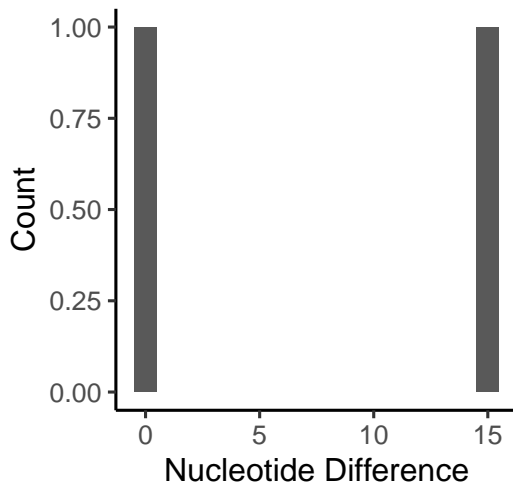
IGHV3-49*03

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



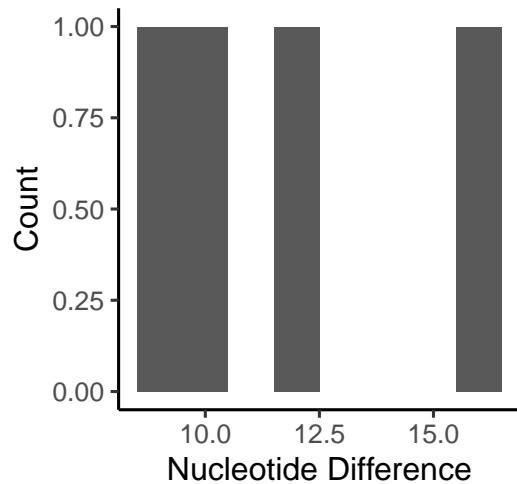
IGHV3-64*01

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



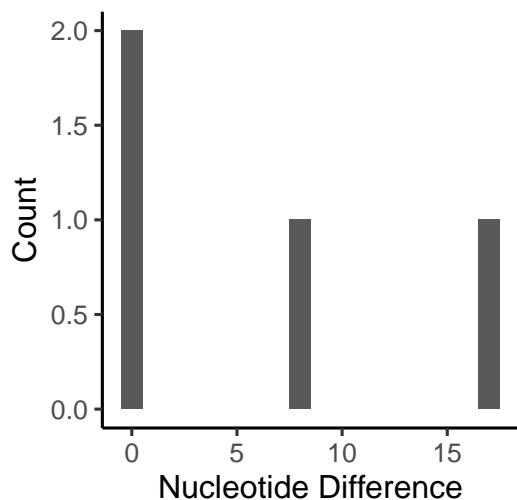
IGHV3-69-1*01

4 sequences assigned
No exact matches.



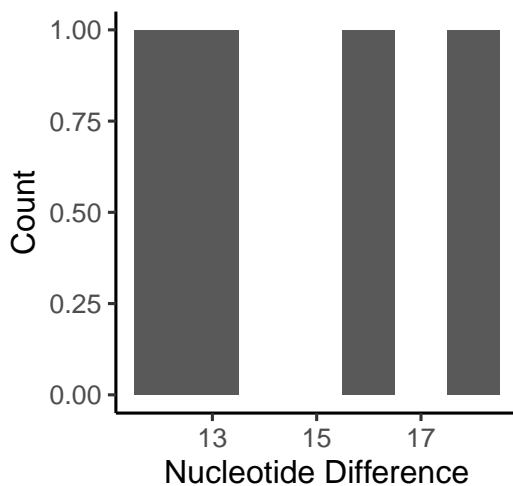
IGHV3-49*05

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



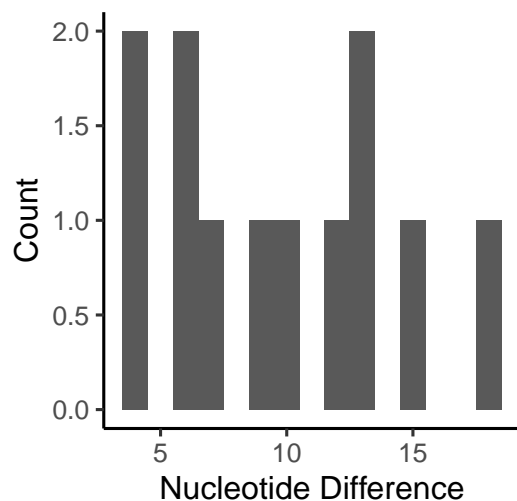
IGHV3-64*04

5 sequences assigned
No exact matches.



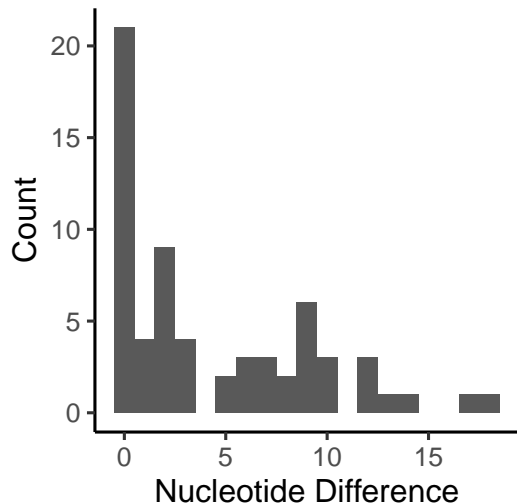
IGHV3-72*01

12 sequences assigned
No exact matches.



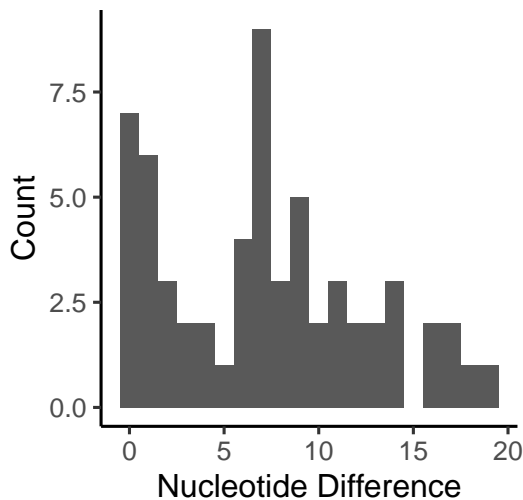
IGHV3-53*01

68 sequences assigned
21 (30.9%) exact matches, in which:
21 unique CDR3
5 unique J



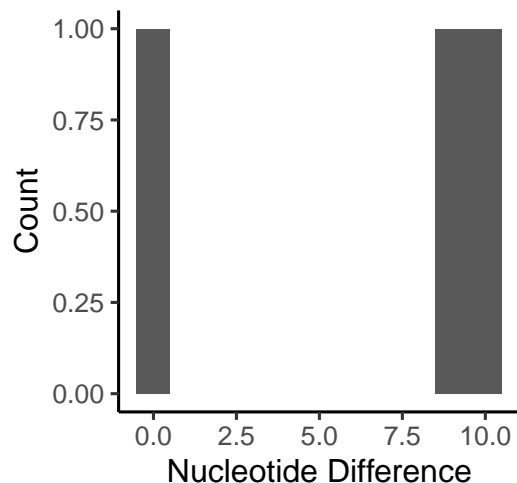
IGHV3-66*01

62 sequences assigned
7 (11.3%) exact matches, in which:
7 unique CDR3
2 unique J



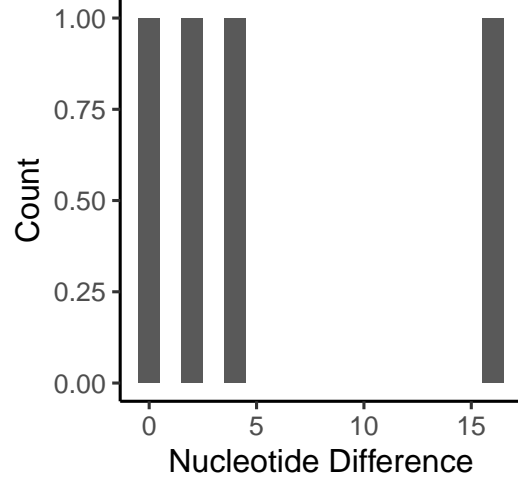
IGHV3-73*01

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



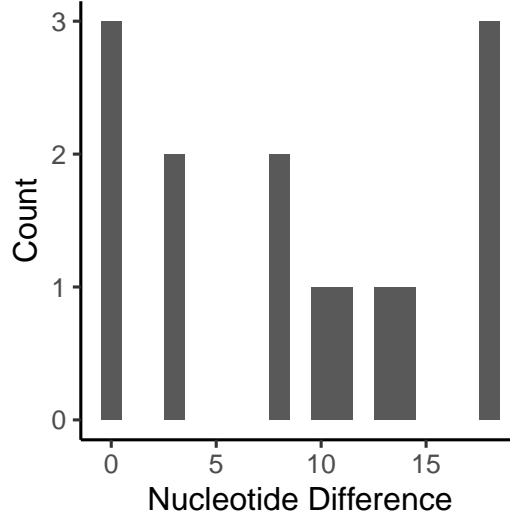
IGHV3-73*02

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



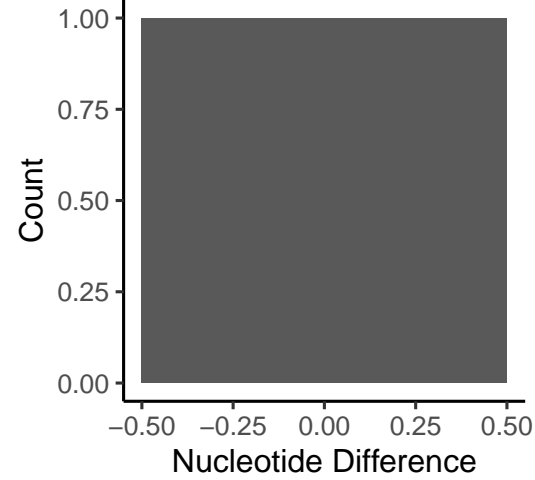
IGHV3-64D*09

15 sequences assigned
3 (20%) exact matches, in which:
3 unique CDR3
3 unique J



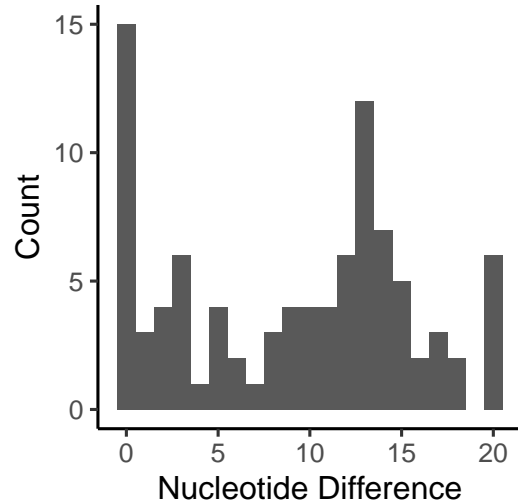
IGHV4-28*03

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



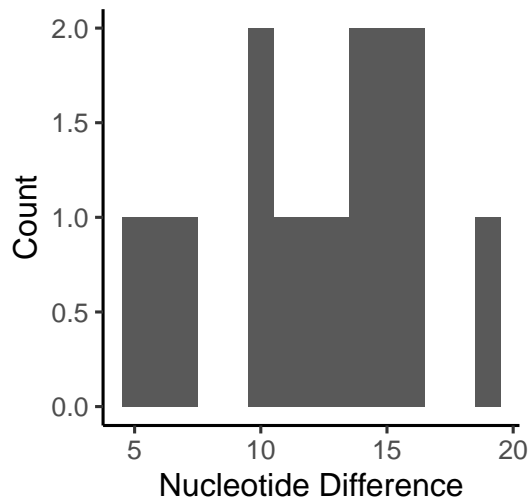
IGHV3-74*01

103 sequences assigned
15 (14.6%) exact matches, in which:
15 unique CDR3
4 unique J



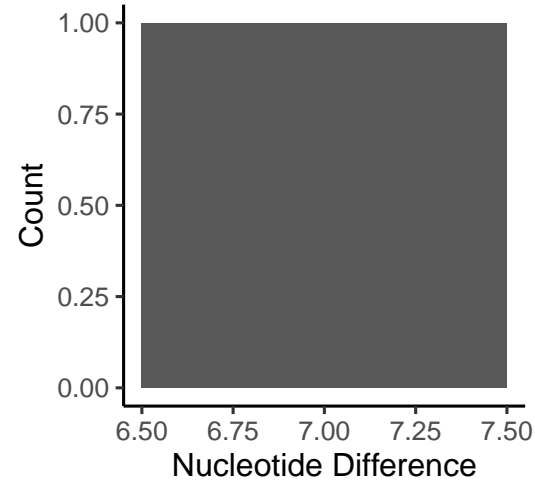
IGHV3-NL1*01

16 sequences assigned
No exact matches.



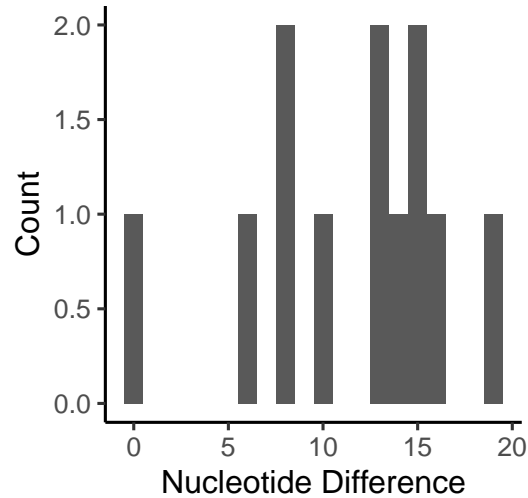
IGHV4-30-2*04

1 sequences assigned
No exact matches.



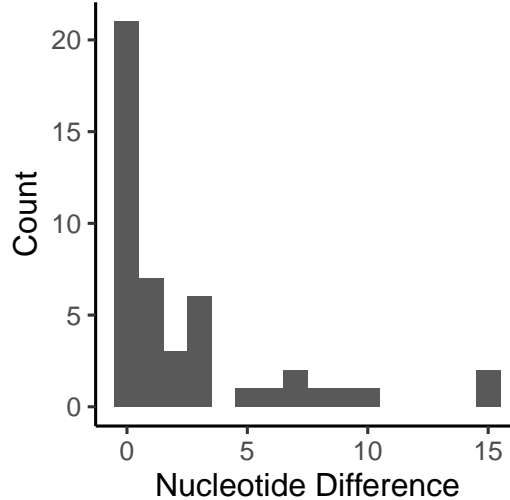
IGHV3-43D*03

12 sequences assigned
1 (8.3%) exact matches, in which:
1 unique CDR3
1 unique J



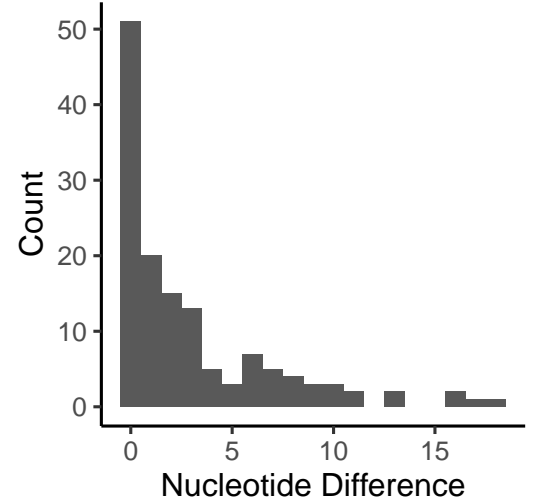
IGHV4-4*07

47 sequences assigned
21 (44.7%) exact matches, in which:
21 unique CDR3
6 unique J



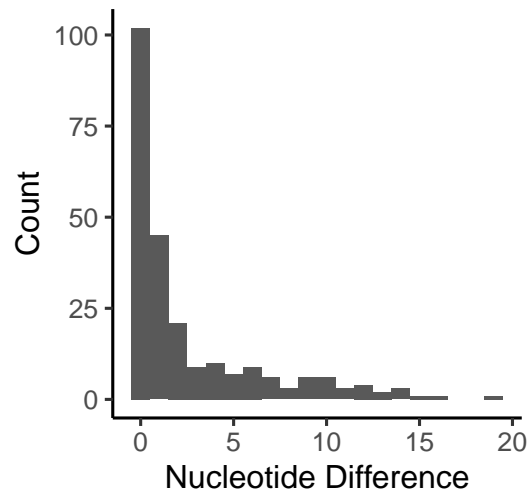
IGHV4-31*03

139 sequences assigned
51 (36.7%) exact matches, in which:
51 unique CDR3
6 unique J



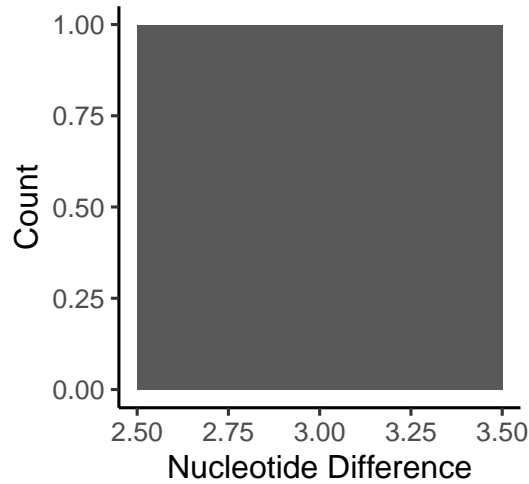
IGHV4-34*01

246 sequences assigned
102 (41.5%) exact matches, in which:
101 unique CDR3
7 unique J



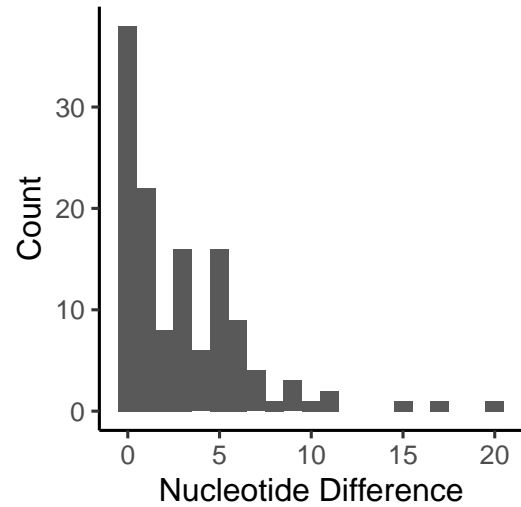
IGHV4-55*08

2 sequences assigned
No exact matches.



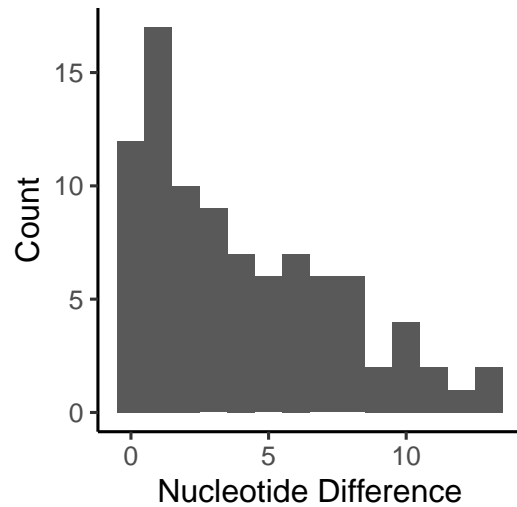
IGHV4-59*12

132 sequences assigned
38 (28.8%) exact matches, in which:
38 unique CDR3
6 unique J



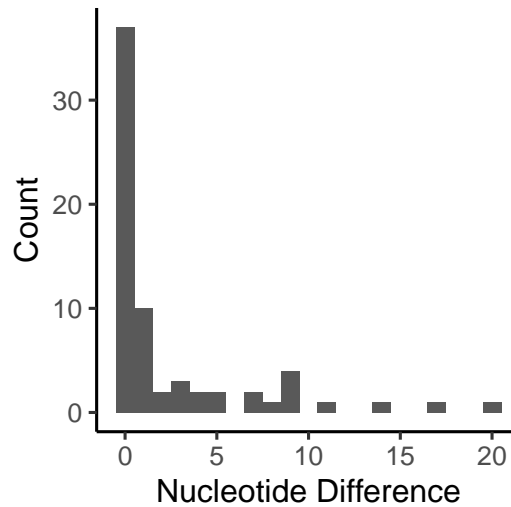
IGHV4-38-2*02

92 sequences assigned
12 (13%) exact matches, in which:
12 unique CDR3
5 unique J



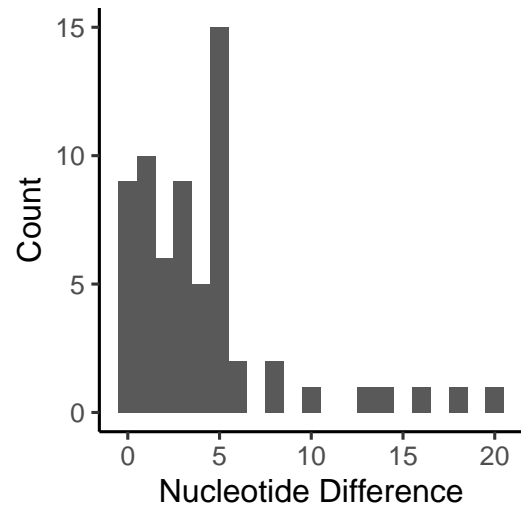
IGHV4-59*01

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



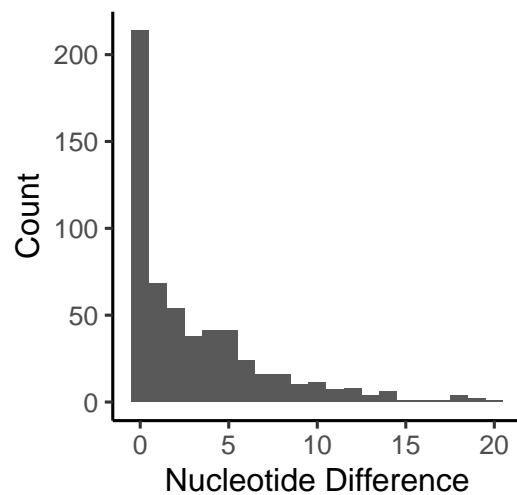
IGHV4-61*01

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



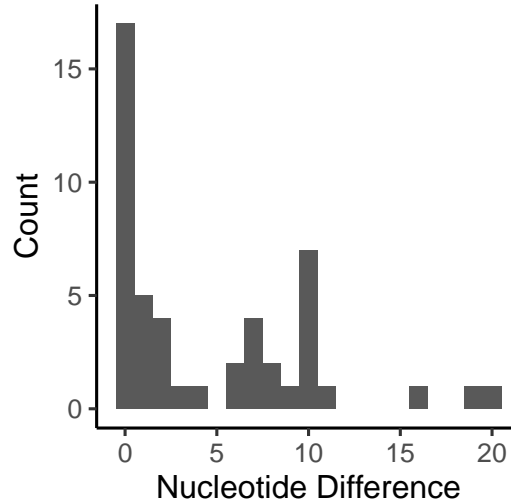
IGHV4-39*07

591 sequences assigned
214 (36.2%) exact matches, in which:
214 unique CDR3
7 unique J



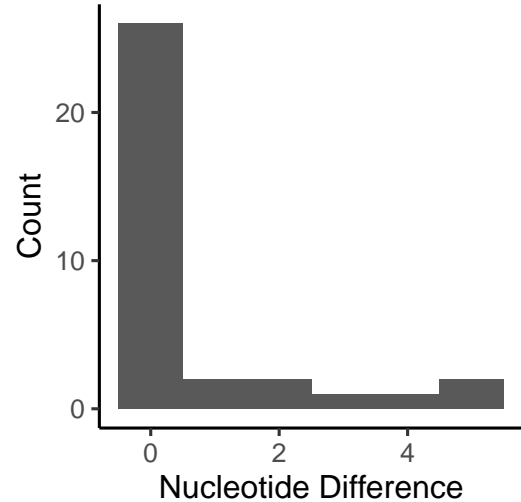
IGHV4-59*08

52 sequences assigned
17 (32.7%) exact matches, in which:
17 unique CDR3
5 unique J



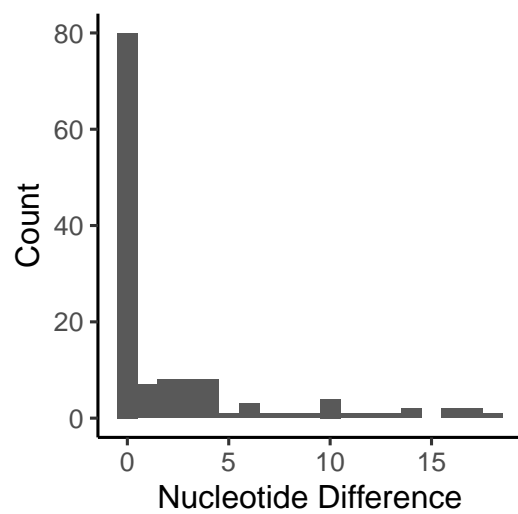
IGHV5-10-1*01

35 sequences assigned
26 (74.3%) exact matches, in which:
26 unique CDR3
5 unique J



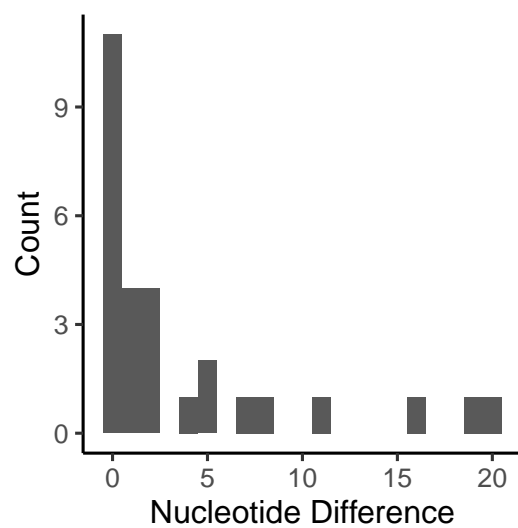
IGHV5-51*01

134 sequences assigned
80 (59.7%) exact matches, in which:
78 unique CDR3
6 unique J



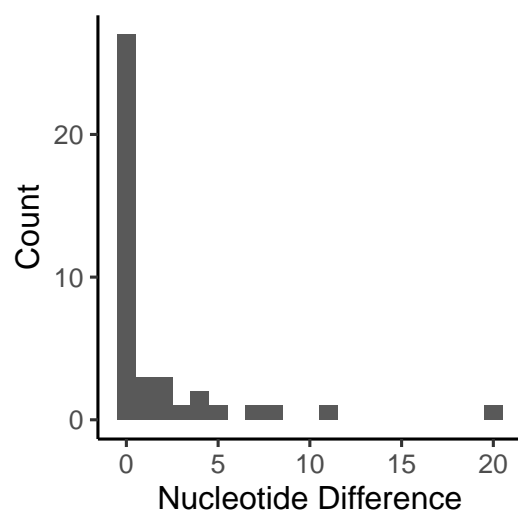
IGHV6-1*01

30 sequences assigned
11 (36.7%) exact matches, in which:
11 unique CDR3
5 unique J

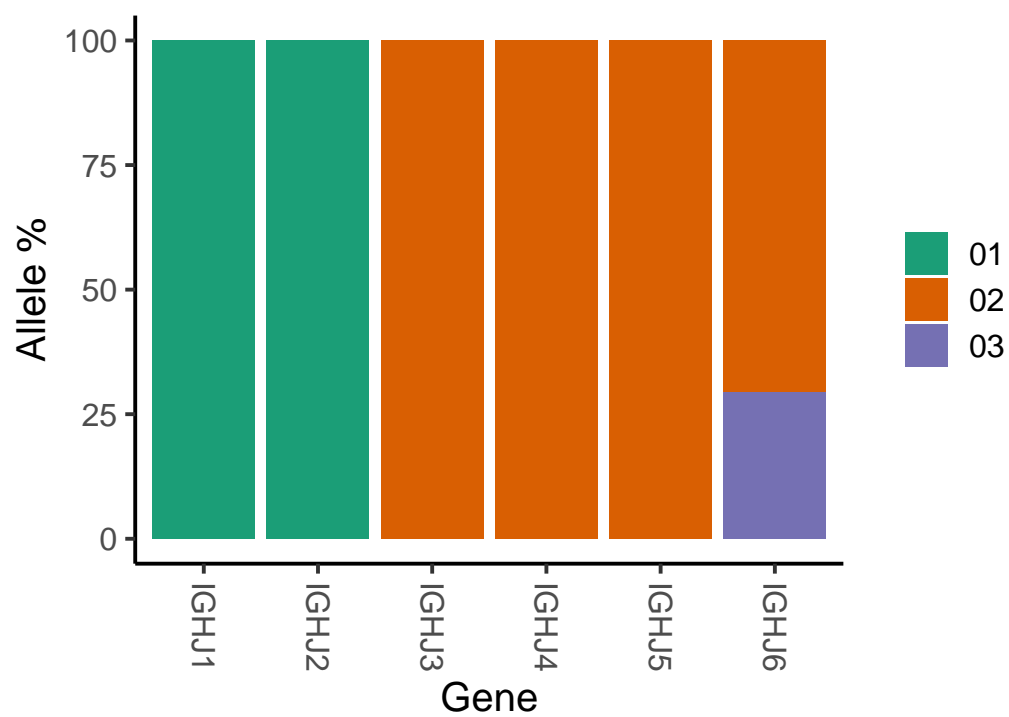


IGHV7-4-1*02

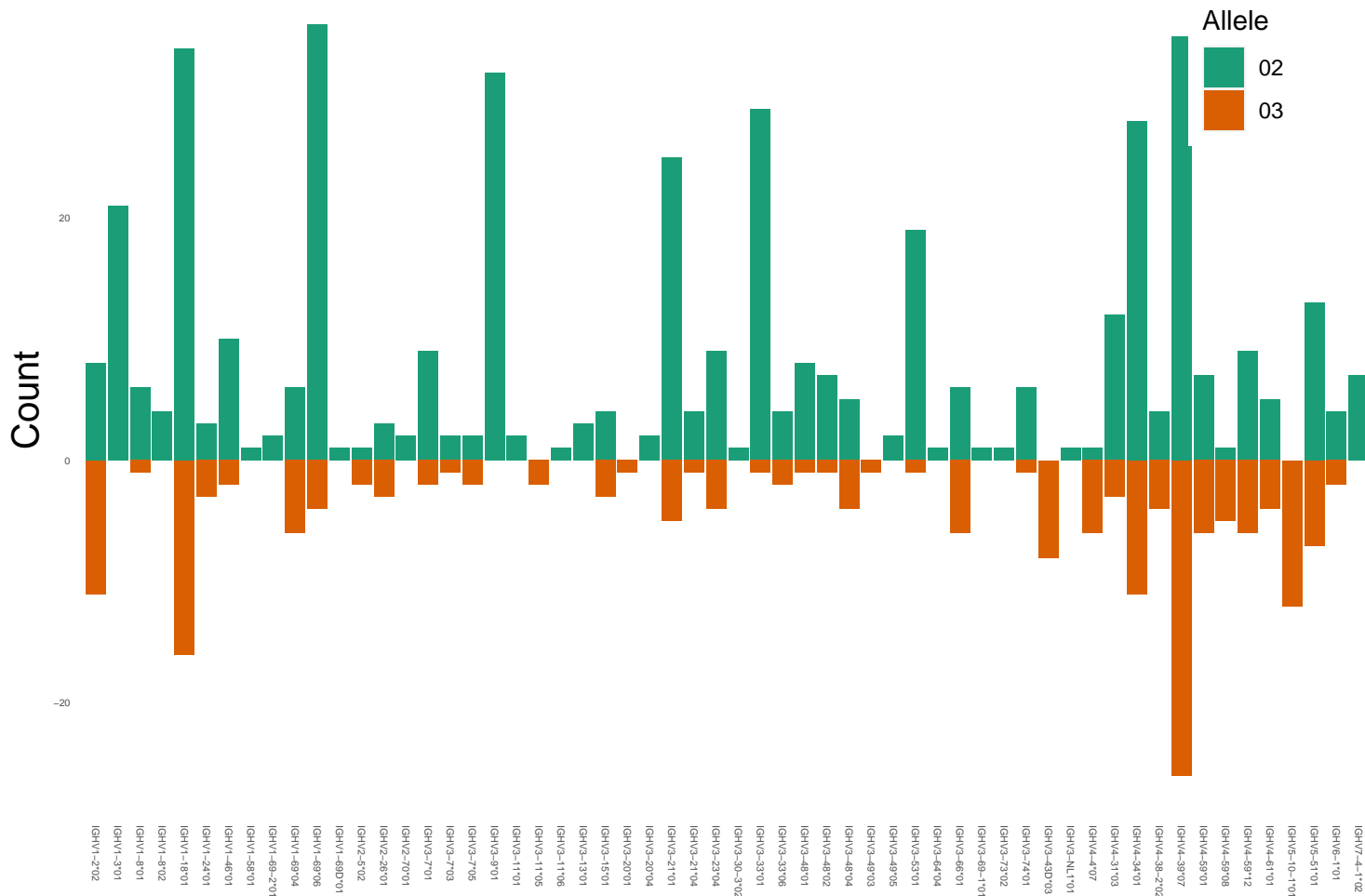
41 sequences assigned
27 (65.9%) exact matches, in which:
26 unique CDR3
5 unique J



Allele Usage



Sequence Count by IGHJ6 allele usage



Warning – no inferred sequences found.