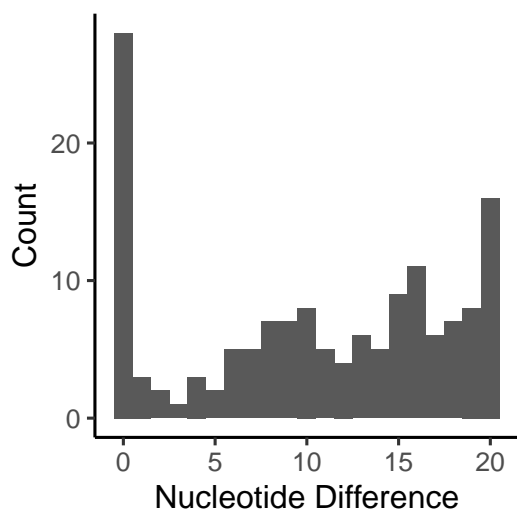


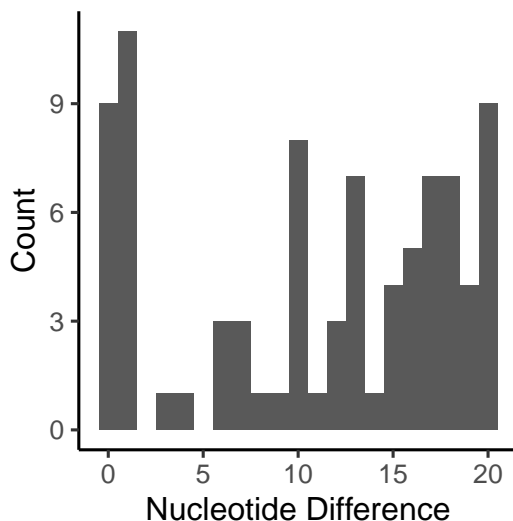
IGHV1-2*02

245 sequences assigned
28 (11.4%) exact matches, in which:
28 unique CDR3
6 unique J



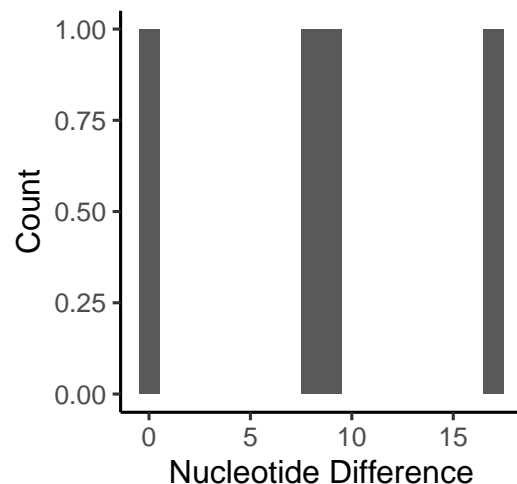
IGHV1-18*01

152 sequences assigned
9 (5.9%) exact matches, in which:
9 unique CDR3
4 unique J



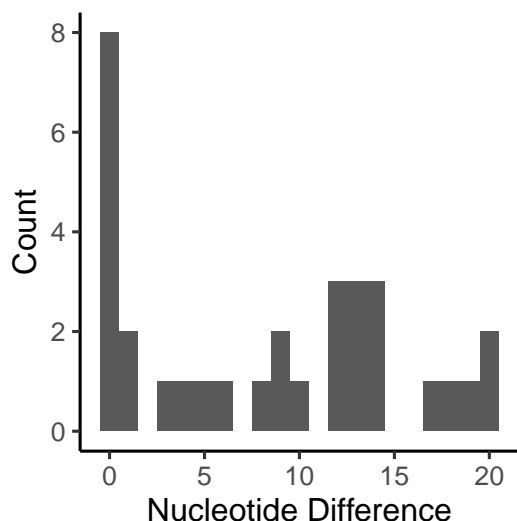
IGHV1-58*02

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



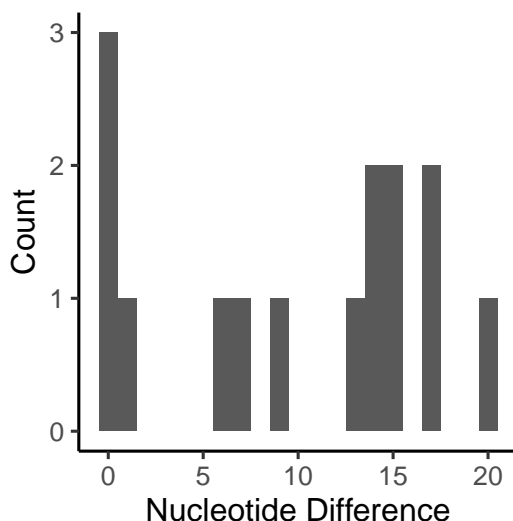
IGHV1-8*01

44 sequences assigned
8 (18.2%) exact matches, in which:
8 unique CDR3
3 unique J



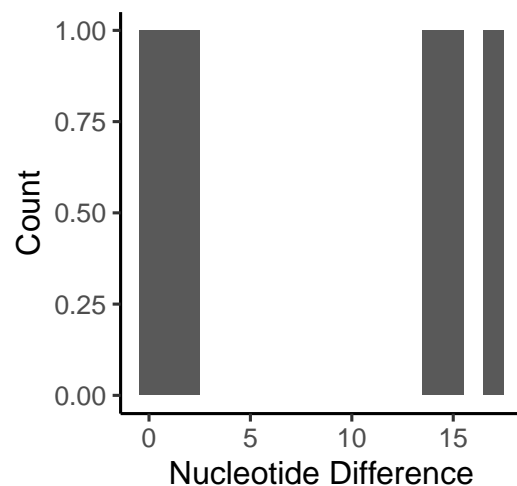
IGHV1-24*01

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



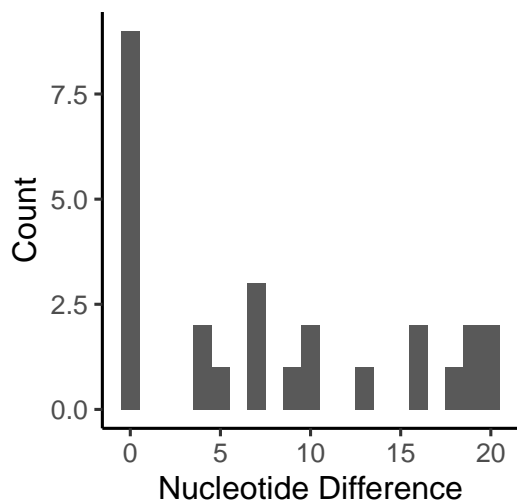
IGHV1-69-2*01

11 sequences assigned
1 (9.1%) exact matches, in which:
1 unique CDR3
1 unique J



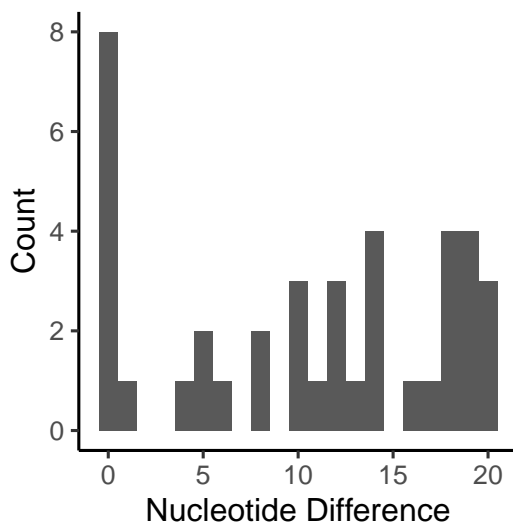
IGHV1-8*02

43 sequences assigned
9 (20.9%) exact matches, in which:
9 unique CDR3
3 unique J



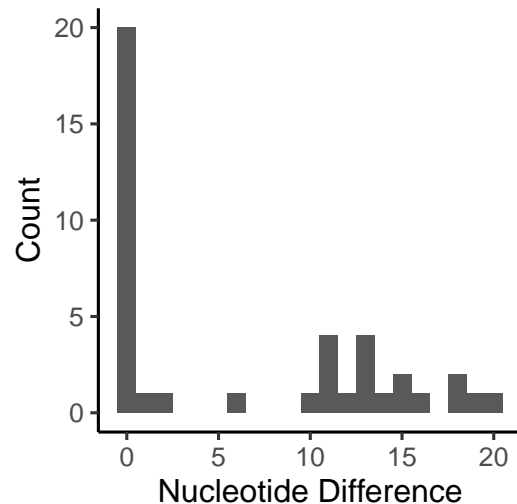
IGHV1-46*01

91 sequences assigned
8 (8.8%) exact matches, in which:
8 unique CDR3
4 unique J



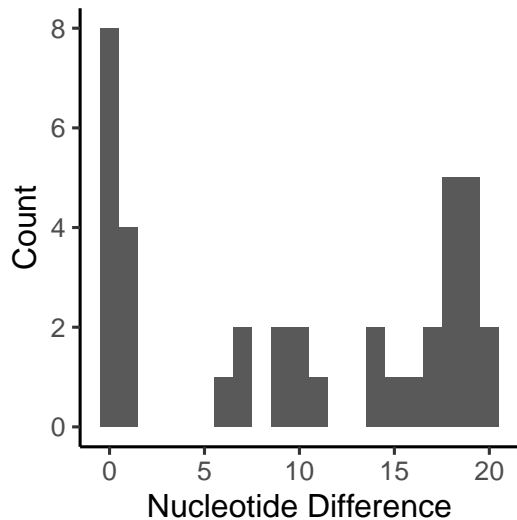
IGHV1-69*04

81 sequences assigned
20 (24.7%) exact matches, in which:
20 unique CDR3
3 unique J



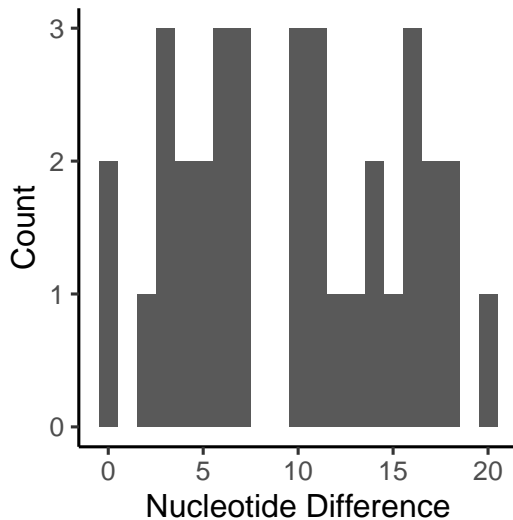
IGHV1-69*10

62 sequences assigned
8 (12.9%) exact matches, in which:
8 unique CDR3
4 unique J



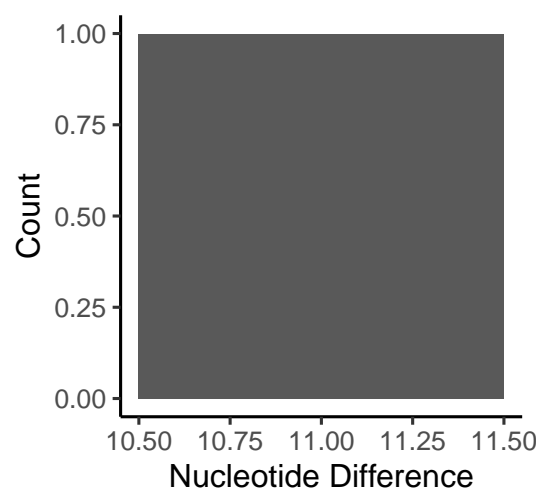
IGHV2-5*02

48 sequences assigned
2 (4.2%) exact matches, in which:
2 unique CDR3
2 unique J



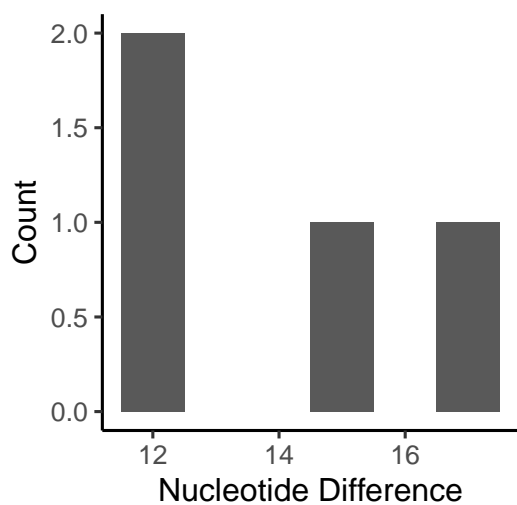
IGHV2-26*02

2 sequences assigned
No exact matches.



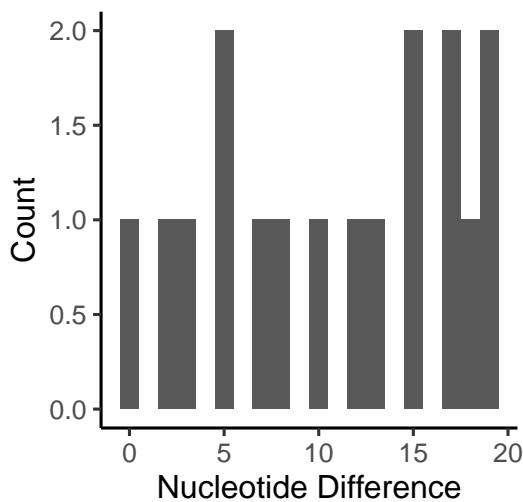
IGHV1-69D*01

7 sequences assigned
No exact matches.



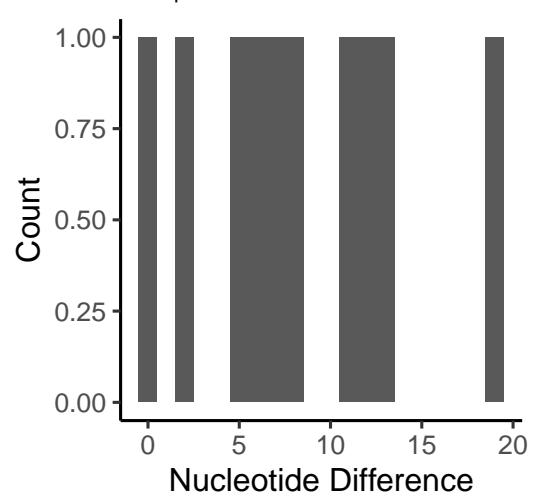
IGHV2-5*05

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



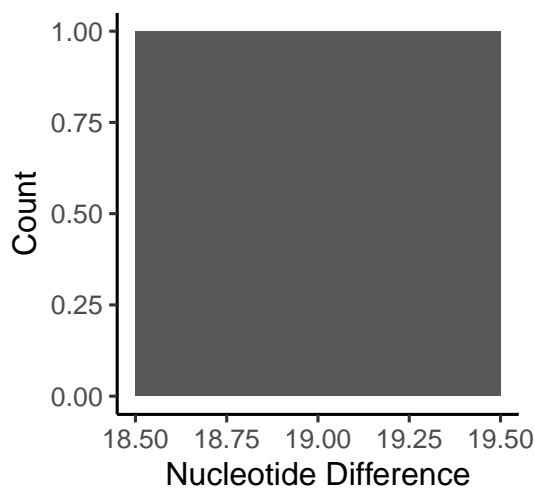
IGHV2-70*15

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



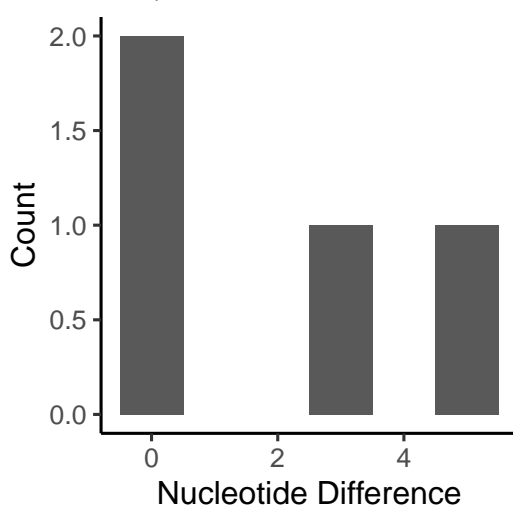
IGHV1-NL1*01

1 sequences assigned
No exact matches.



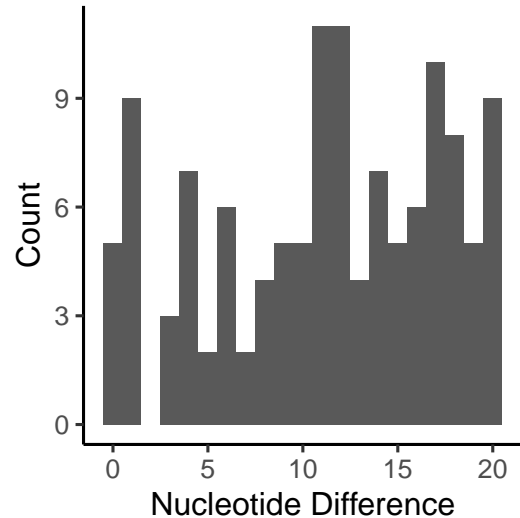
IGHV2-26*01

11 sequences assigned
2 (18.2%) exact matches, in which:
2 unique CDR3
2 unique J



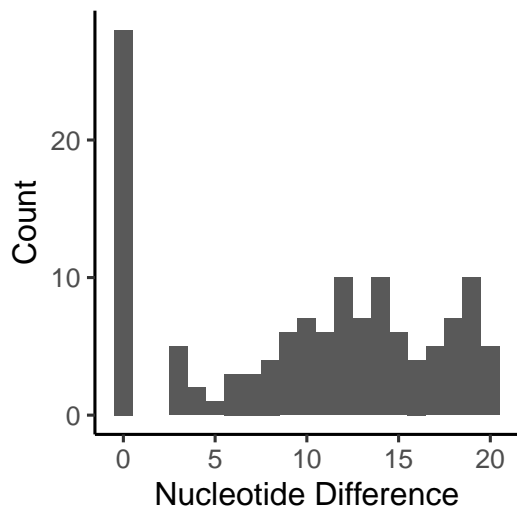
IGHV3-7*01

175 sequences assigned
5 (2.9%) exact matches, in which:
5 unique CDR3
2 unique J



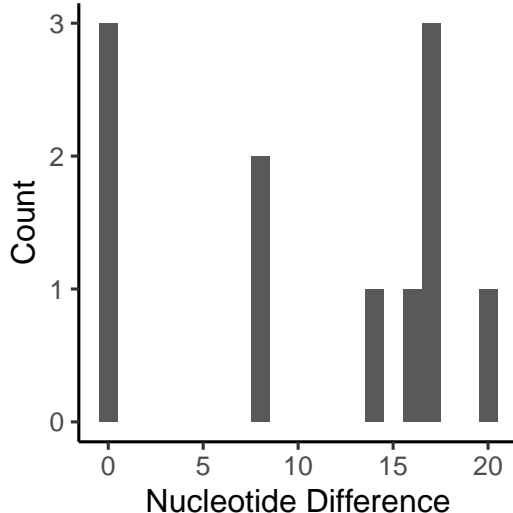
IGHV3-9*01

176 sequences assigned
28 (15.9%) exact matches, in which:
28 unique CDR3
5 unique J



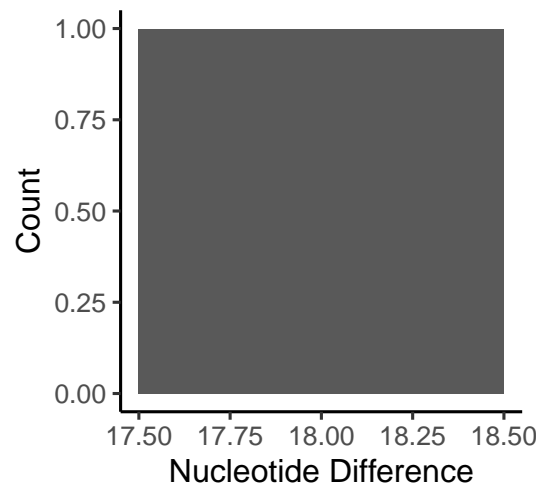
IGHV3-13*01

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



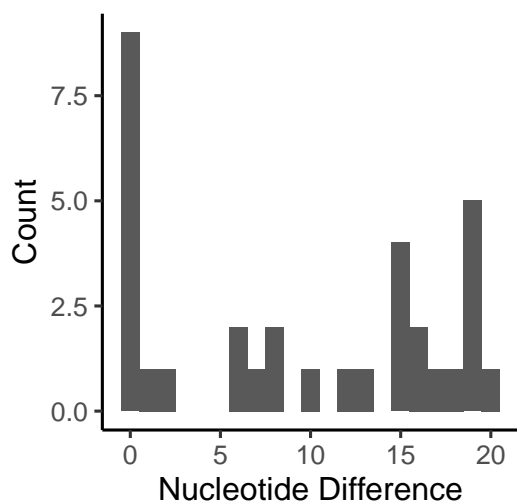
IGHV3-20*04

5 sequences assigned
No exact matches.



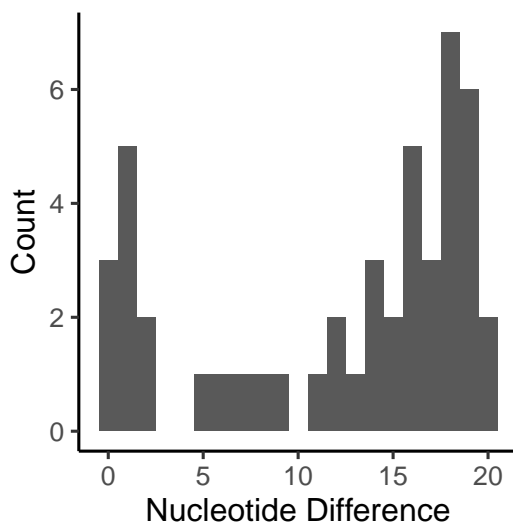
IGHV3-11*01

50 sequences assigned
9 (18%) exact matches, in which:
9 unique CDR3
3 unique J



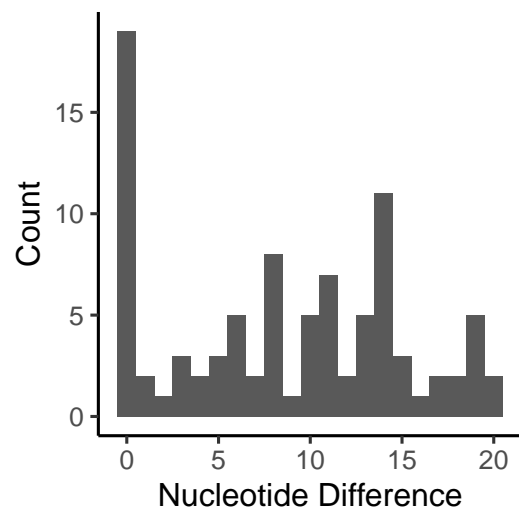
IGHV3-15*01

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



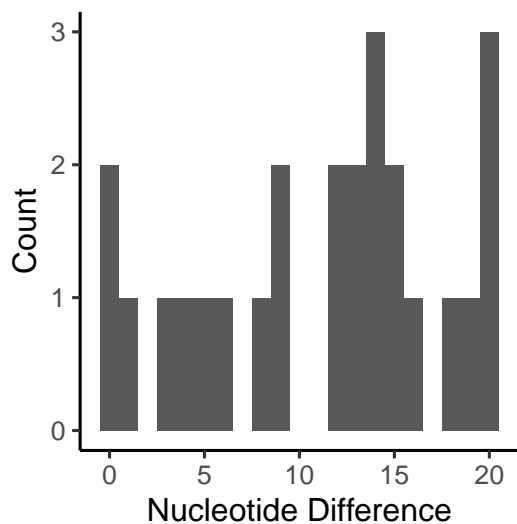
IGHV3-21*01

108 sequences assigned
19 (17.6%) exact matches, in which:
19 unique CDR3
6 unique J



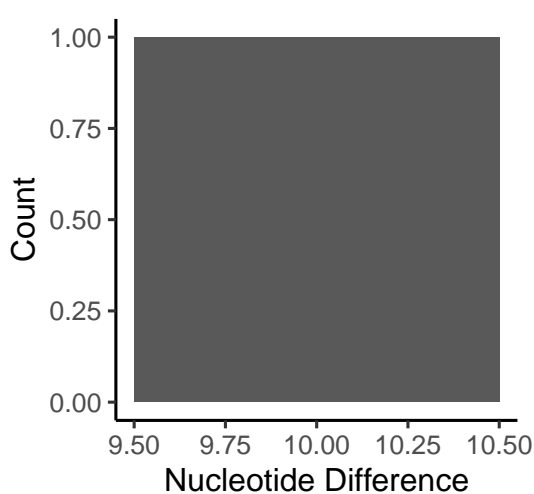
IGHV3-11*04

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



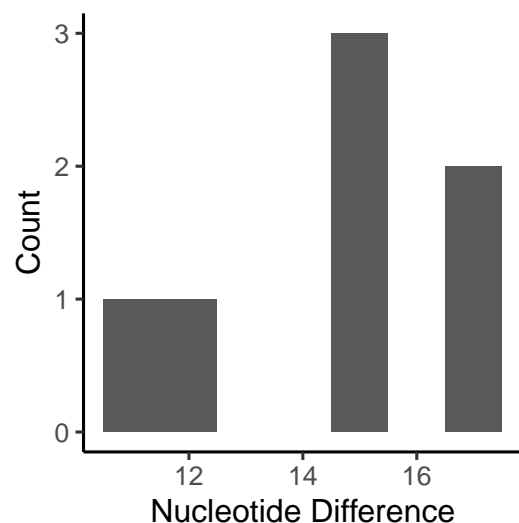
IGHV3-20*01

1 sequences assigned
No exact matches.



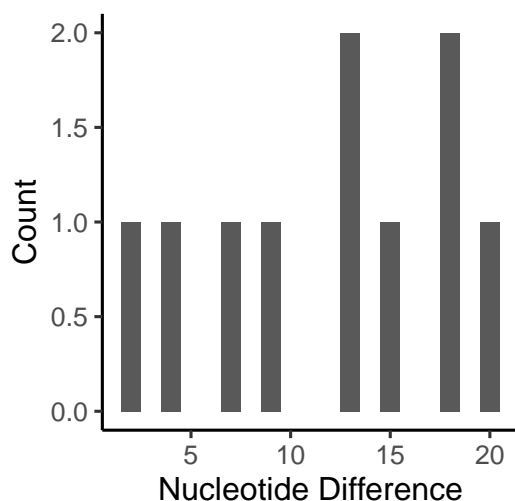
IGHV3-21*02

21 sequences assigned
No exact matches.



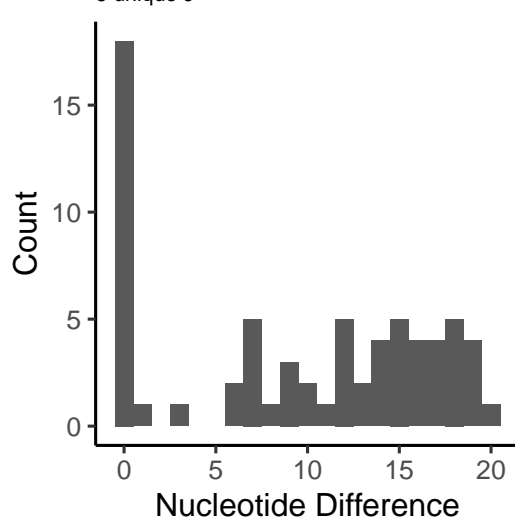
IGHV3-21*06

15 sequences assigned
No exact matches.



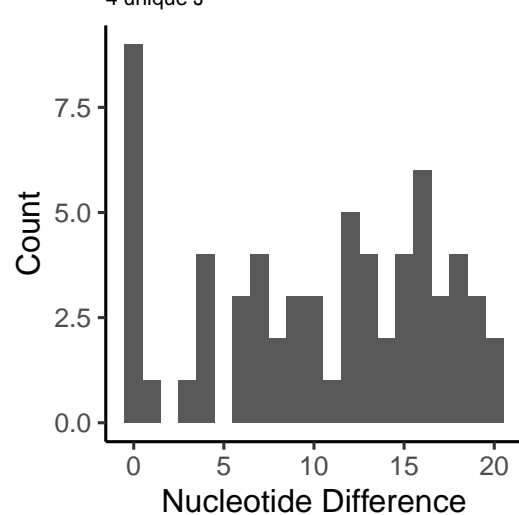
IGHV3-33*06

81 sequences assigned
18 (22.2%) exact matches, in which:
18 unique CDR3
6 unique J



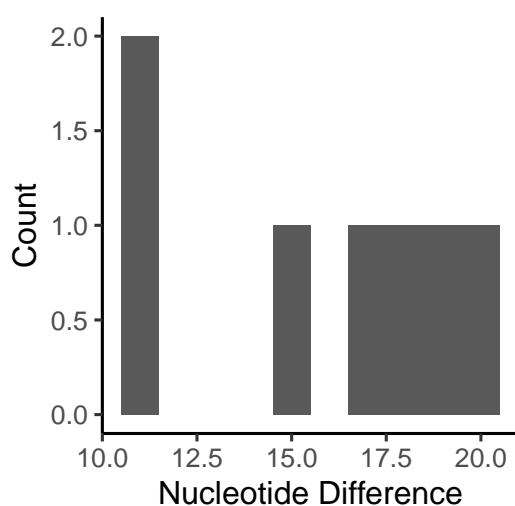
IGHV3-48*04

87 sequences assigned
9 (10.3%) exact matches, in which:
9 unique CDR3
4 unique J



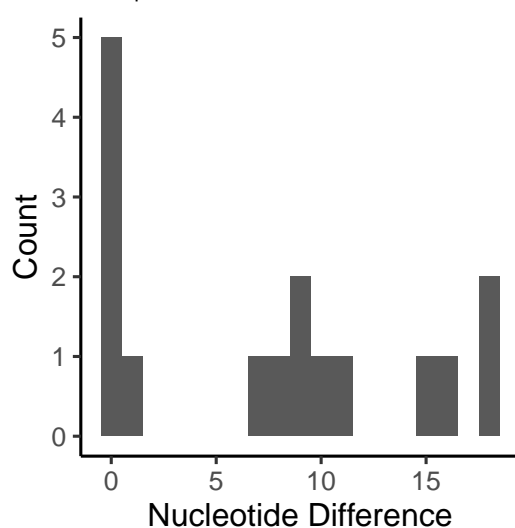
IGHV3-33*01

15 sequences assigned
No exact matches.



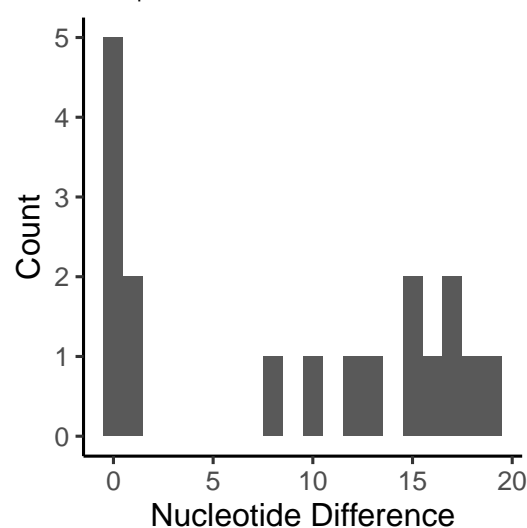
IGHV3-43*01

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



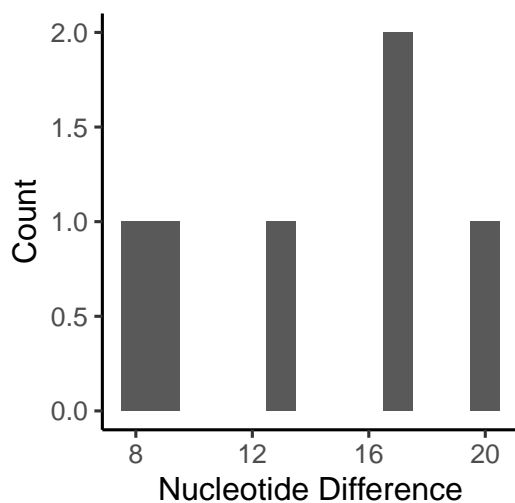
IGHV3-49*03

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



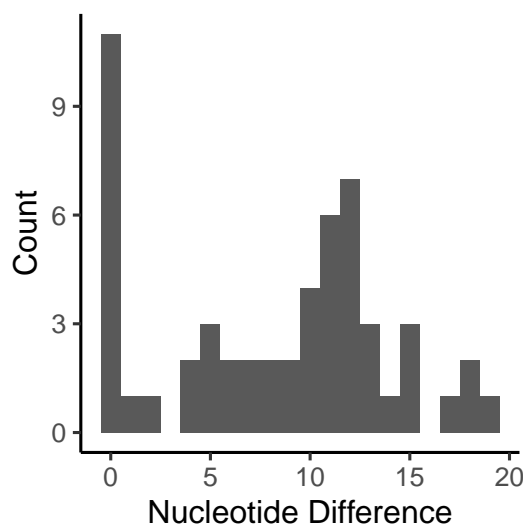
IGHV3-33*03

13 sequences assigned
No exact matches.



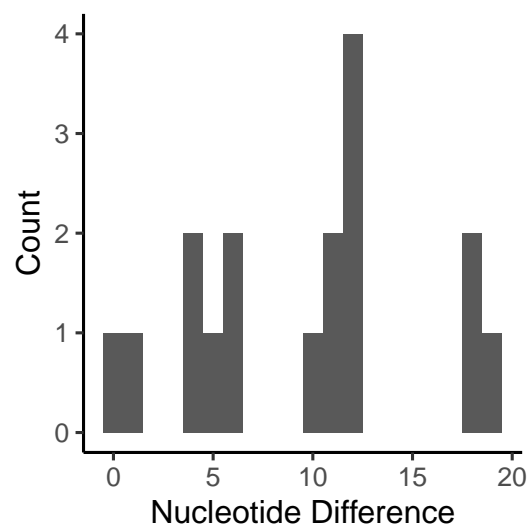
IGHV3-48*03

94 sequences assigned
11 (11.7%) exact matches, in which:
11 unique CDR3
4 unique J



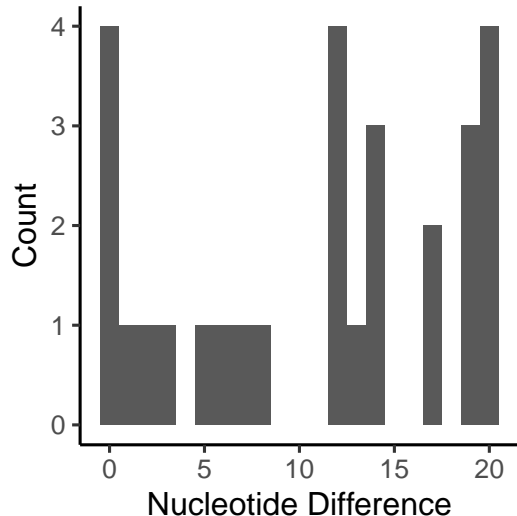
IGHV3-49*04

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



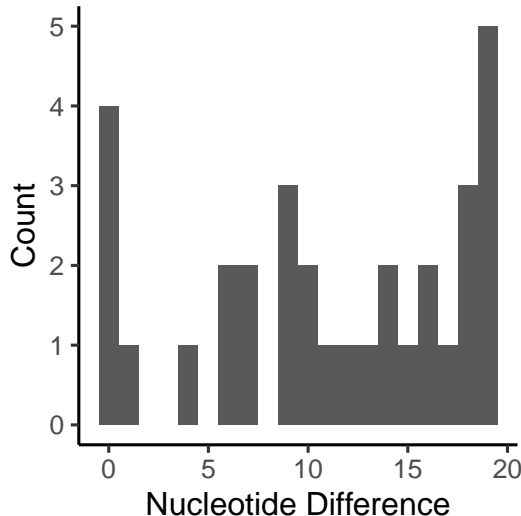
IGHV3-53*01

39 sequences assigned
4 (10.3%) exact matches, in which:
4 unique CDR3
2 unique J



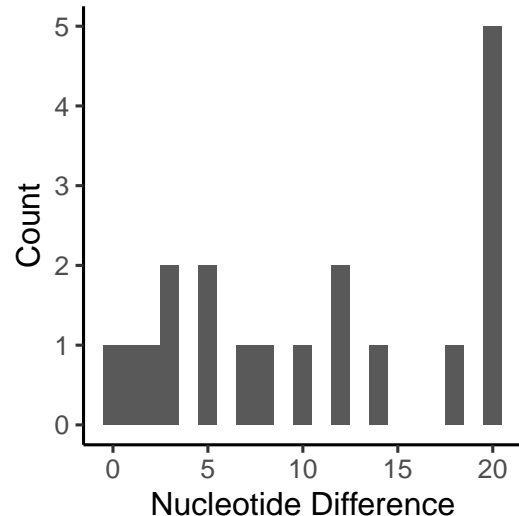
IGHV3-66*01

49 sequences assigned
4 (8.2%) exact matches, in which:
4 unique CDR3
3 unique J



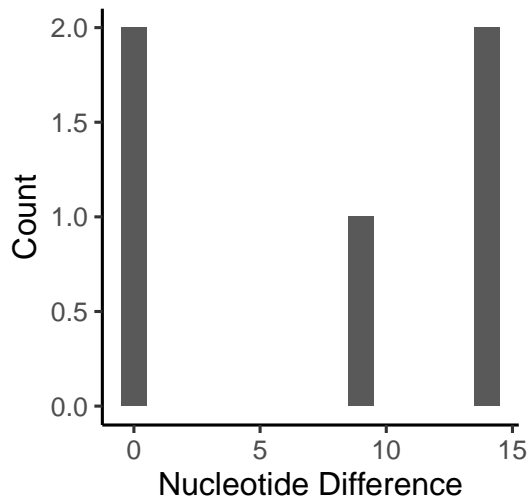
IGHV3-73*02

27 sequences assigned
1 (3.7%) exact matches, in which:
1 unique CDR3
1 unique J



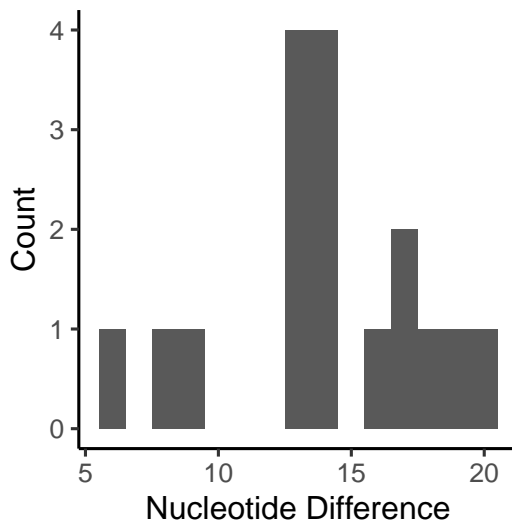
IGHV3-53*04

11 sequences assigned
2 (18.2%) exact matches, in which:
2 unique CDR3
1 unique J



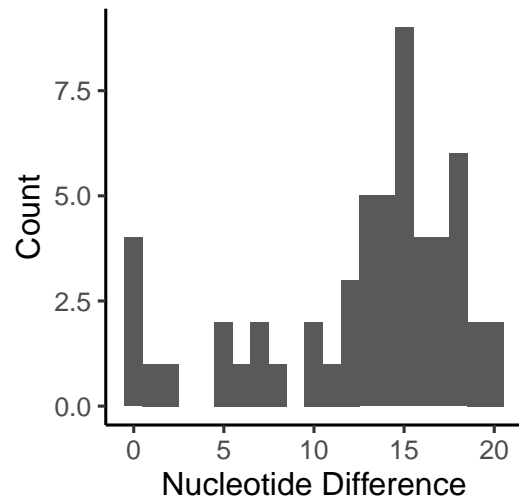
IGHV3-72*01

26 sequences assigned
No exact matches.



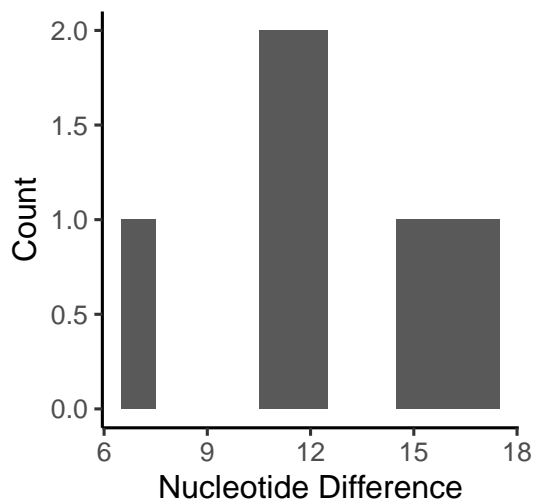
IGHV3-74*01

83 sequences assigned
4 (4.8%) exact matches, in which:
4 unique CDR3
2 unique J



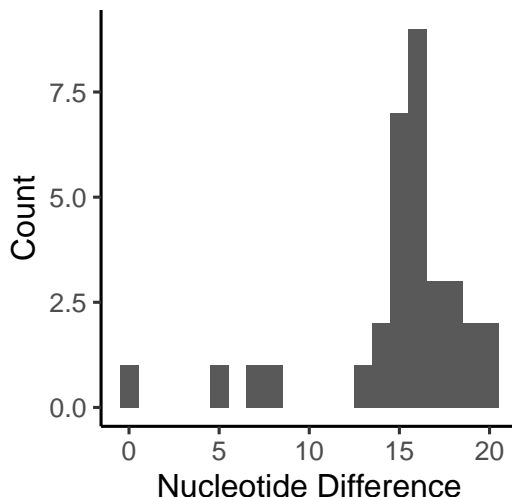
IGHV3-64*01

12 sequences assigned
No exact matches.



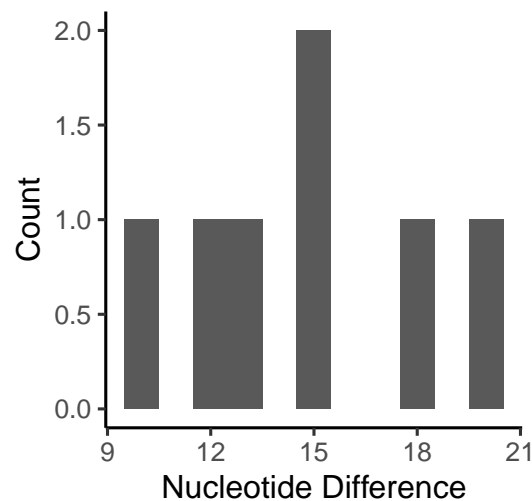
IGHV3-73*01

56 sequences assigned
1 (1.8%) exact matches, in which:
1 unique CDR3
1 unique J



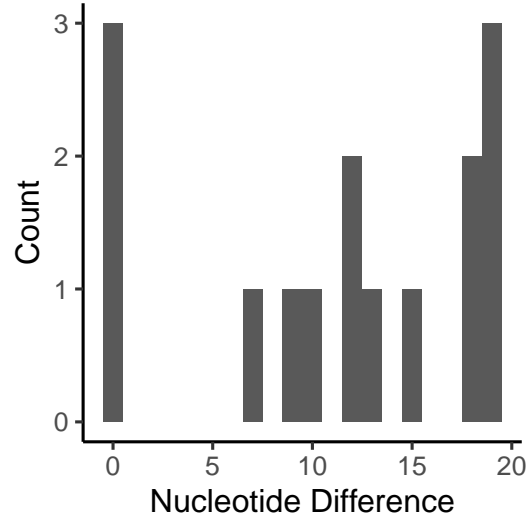
IGHV3-74*03

12 sequences assigned
No exact matches.



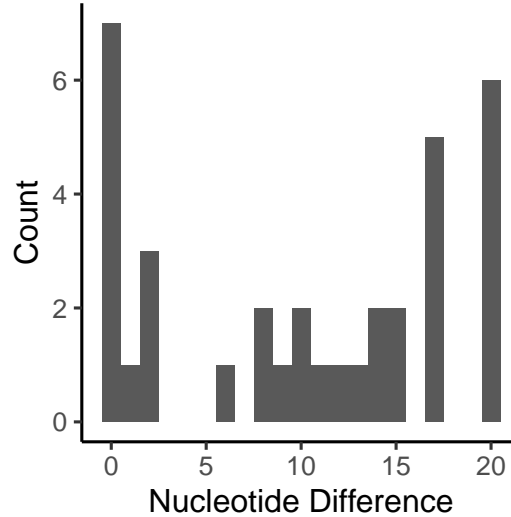
IGHV3-43D*03

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



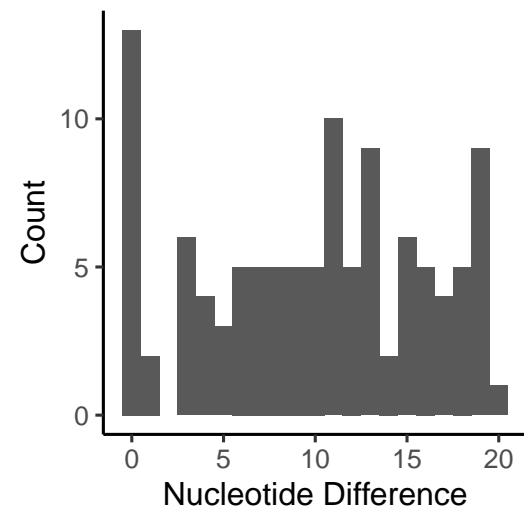
IGHV4-31*03

72 sequences assigned
7 (9.7%) exact matches, in which:
7 unique CDR3
3 unique J



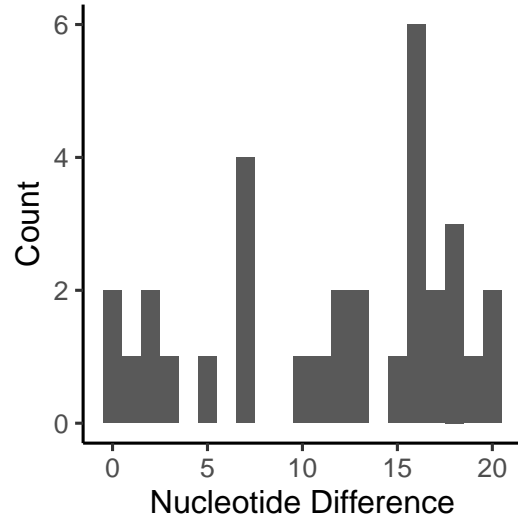
IGHV4-39*01

178 sequences assigned
13 (7.3%) exact matches, in which:
13 unique CDR3
5 unique J



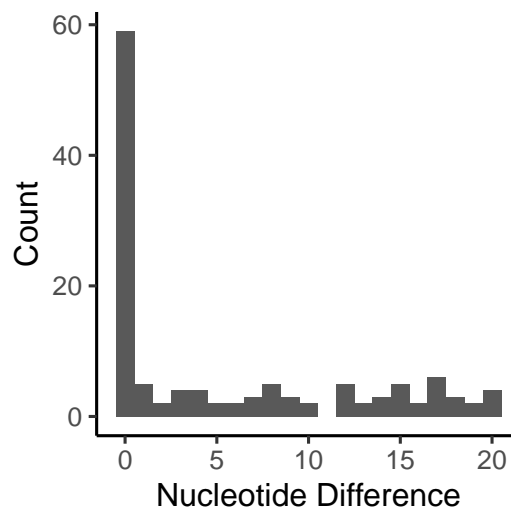
IGHV4-4*07

64 sequences assigned
2 (3.1%) exact matches, in which:
2 unique CDR3
2 unique J



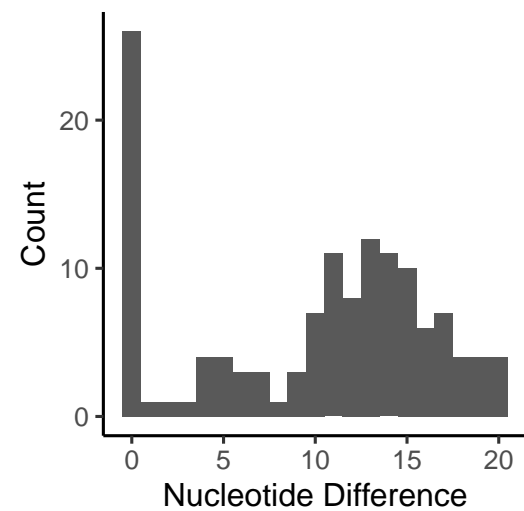
IGHV4-34*01

202 sequences assigned
59 (29.2%) exact matches, in which:
58 unique CDR3
5 unique J



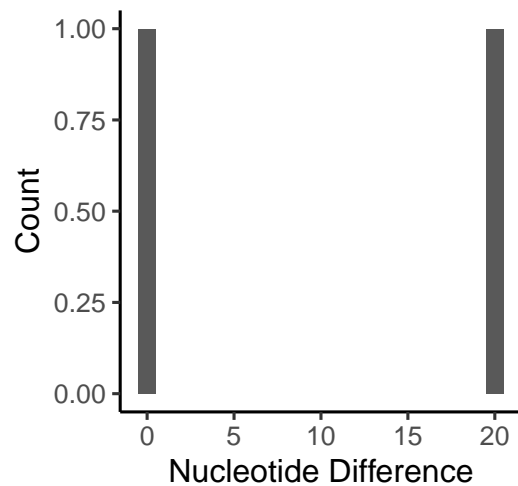
IGHV4-39*07

246 sequences assigned
26 (10.6%) exact matches, in which:
26 unique CDR3
5 unique J



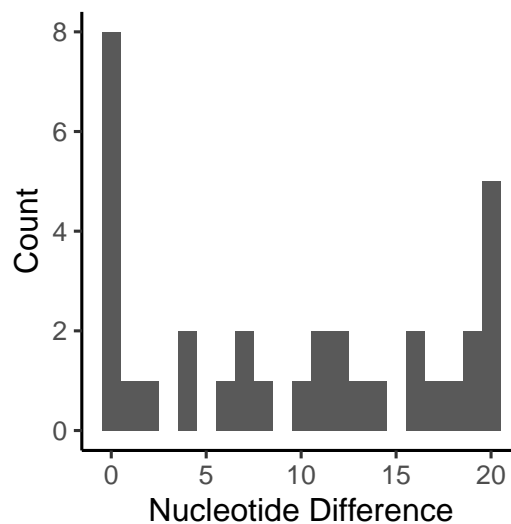
IGHV4-28*05

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



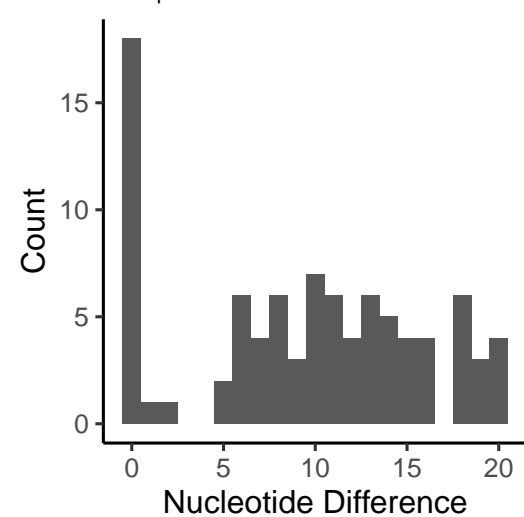
IGHV4-38-2*02

63 sequences assigned
8 (12.7%) exact matches, in which:
8 unique CDR3
3 unique J



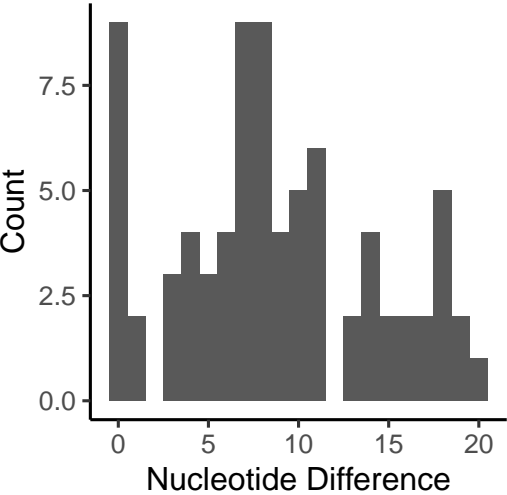
IGHV4-59*01

135 sequences assigned
18 (13.3%) exact matches, in which:
18 unique CDR3
4 unique J



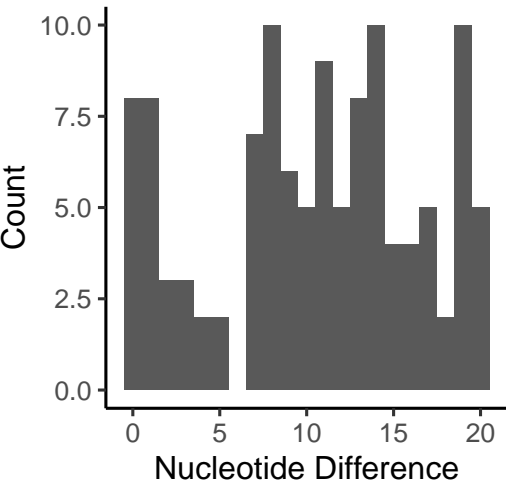
IGHV4-59*08

104 sequences assigned
9 (8.7%) exact matches, in which:
9 unique CDR3
4 unique J



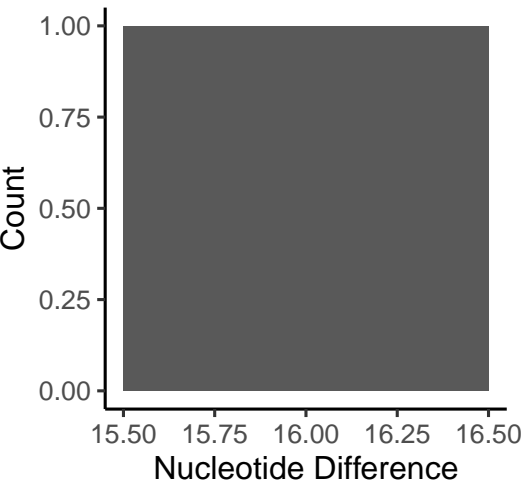
IGHV5-51*01

163 sequences assigned
8 (4.9%) exact matches, in which:
8 unique CDR3
5 unique J



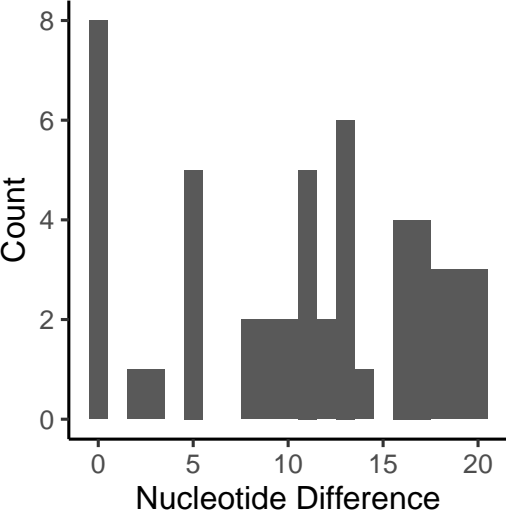
IGHV4-61*01

1 sequences assigned
No exact matches.



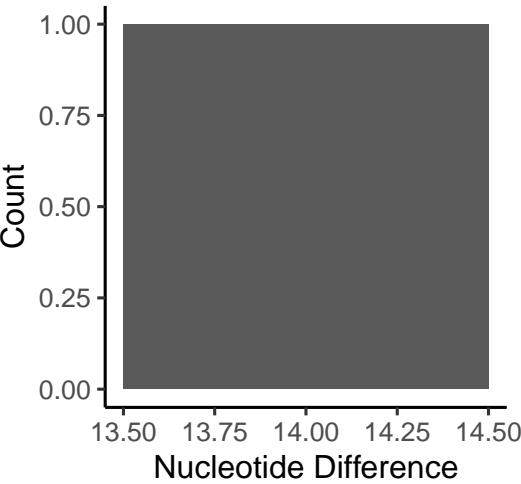
IGHV5-51*03

76 sequences assigned
8 (10.5%) exact matches, in which:
8 unique CDR3
3 unique J



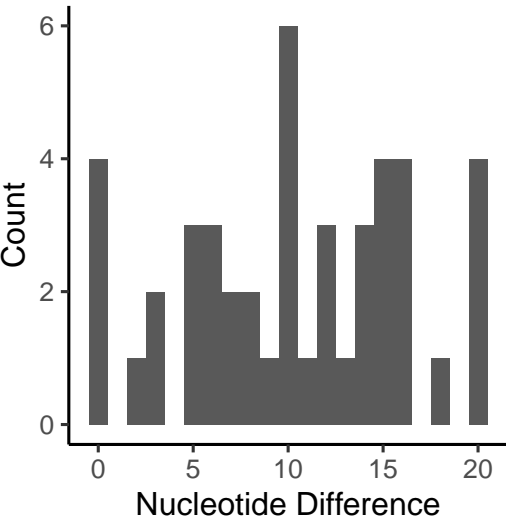
IGHV4-61*02

2 sequences assigned
No exact matches.

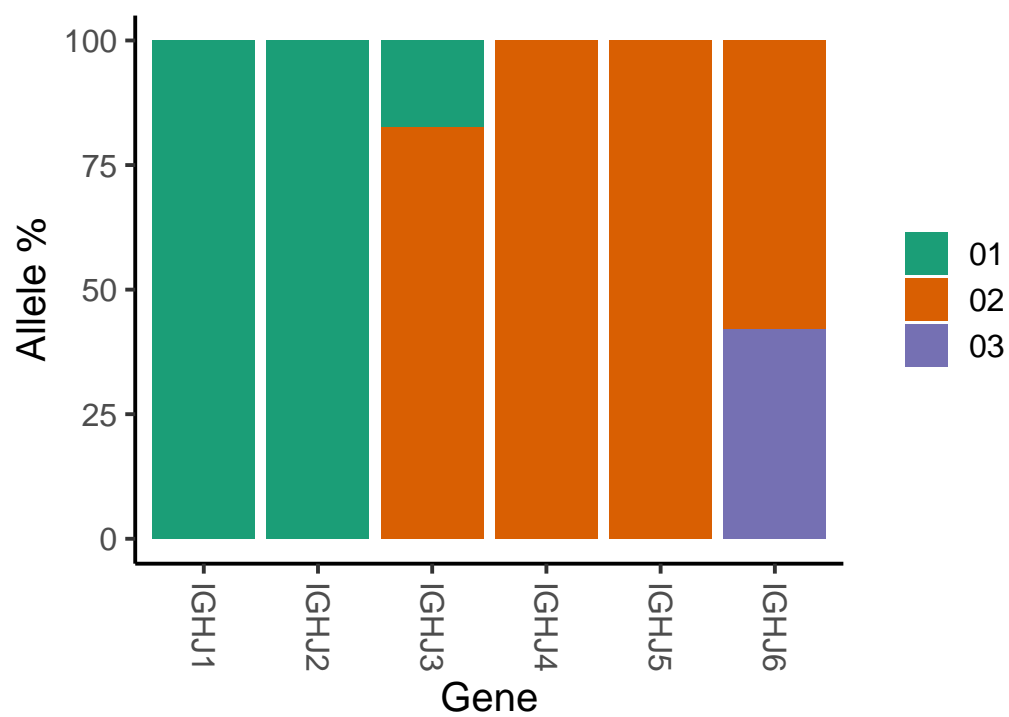


IGHV6-1*01

58 sequences assigned
4 (6.9%) exact matches, in which:
4 unique CDR3
2 unique J



Allele Usage



Sequence Count by IGHJ6 allele usage



