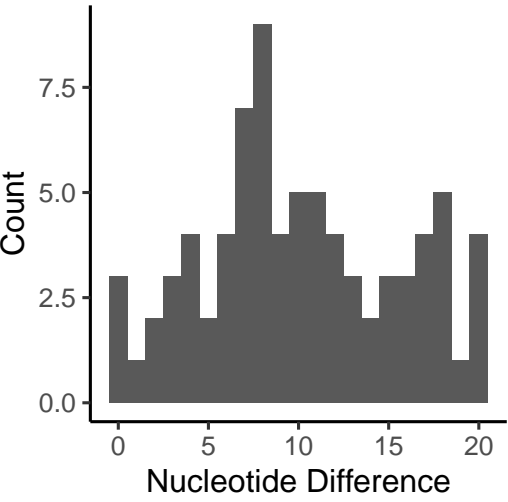


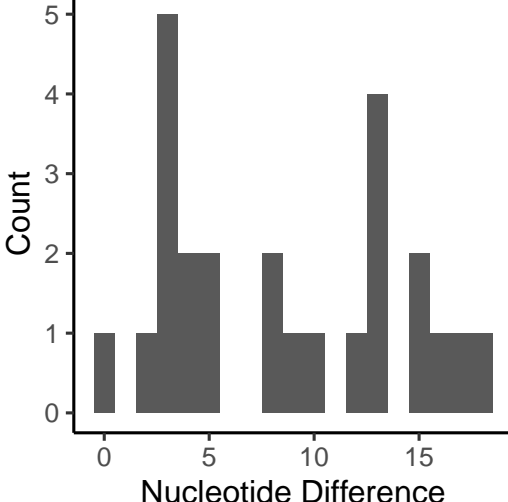
IGHV1-2*02

106 sequences assigned
3 (2.8%) exact matches, in which:
3 unique CDR3
2 unique J



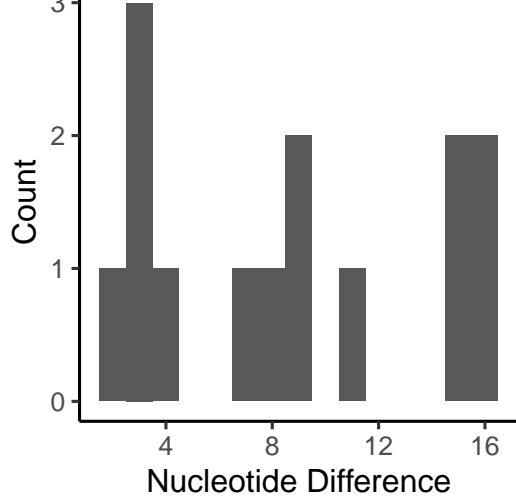
IGHV1-8*01

31 sequences assigned
1 (3.2%) exact matches, in which:
1 unique CDR3
1 unique J



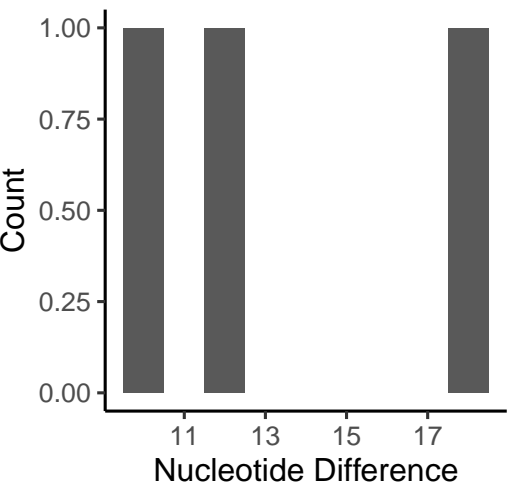
IGHV1-46*01

15 sequences assigned
No exact matches.



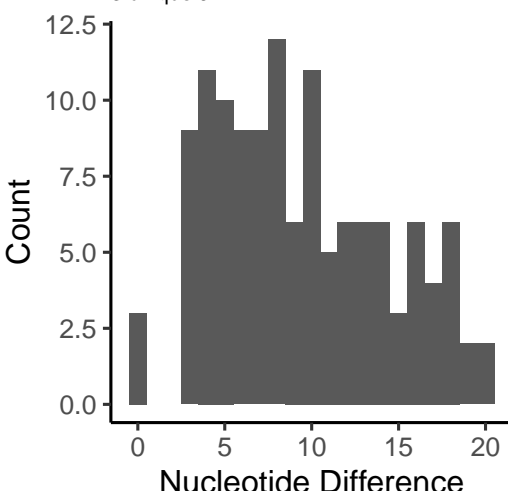
IGHV1-3*04

3 sequences assigned
No exact matches.



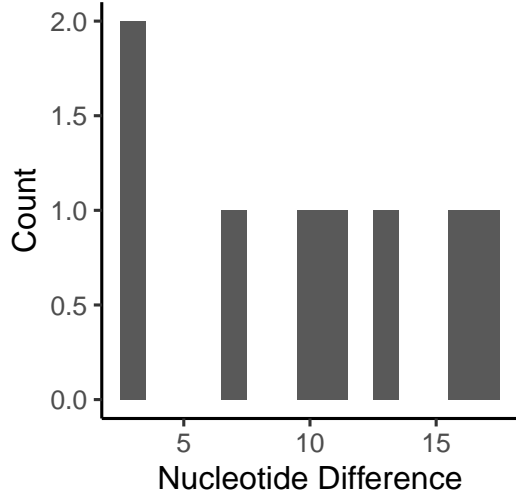
IGHV1-18*01

157 sequences assigned
3 (1.9%) exact matches, in which:
3 unique CDR3
3 unique J



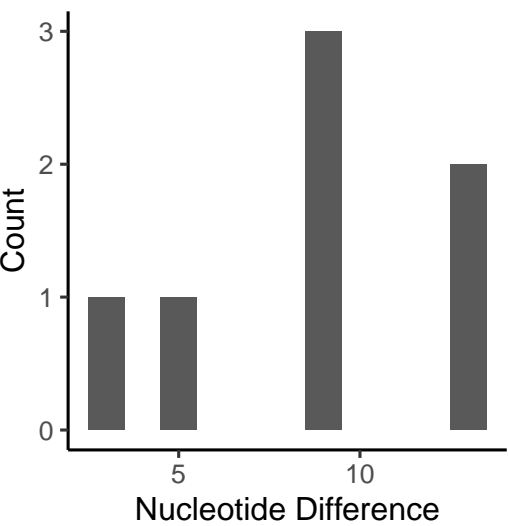
IGHV1-46*03

8 sequences assigned
No exact matches.



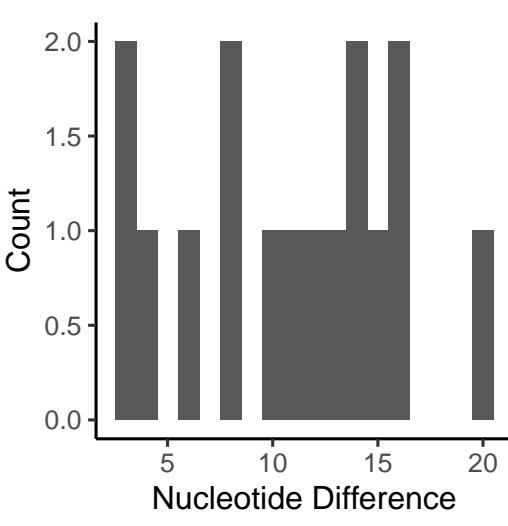
IGHV1-3*01_05

9 sequences assigned
No exact matches.



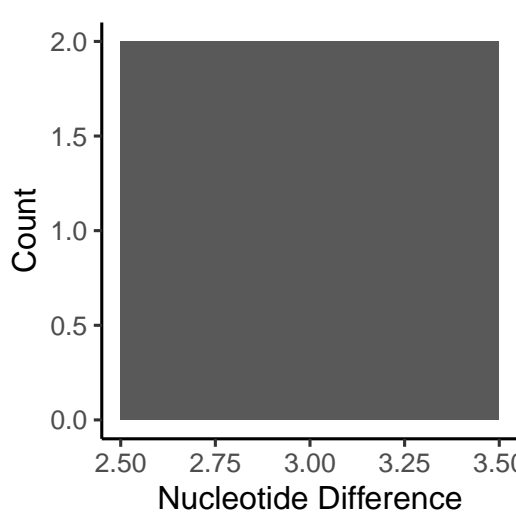
IGHV1-24*01

18 sequences assigned
No exact matches.



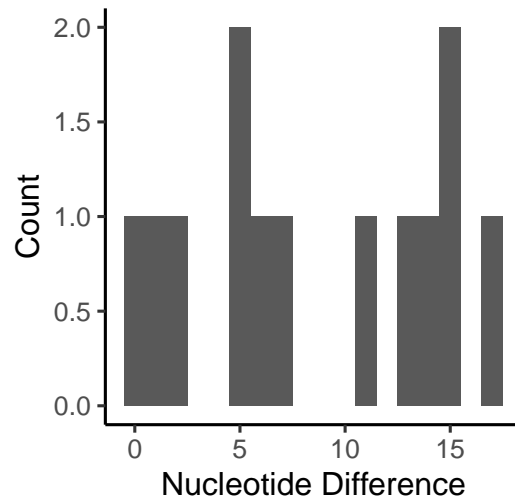
IGHV1-58*01_03

3 sequences assigned
No exact matches.



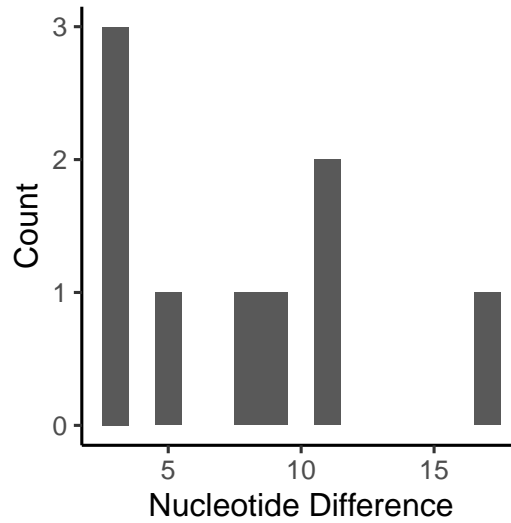
IGHV1-69*01_12_13

18 sequences assigned
1 (5.6%) exact matches, in which:
1 unique CDR3
1 unique J



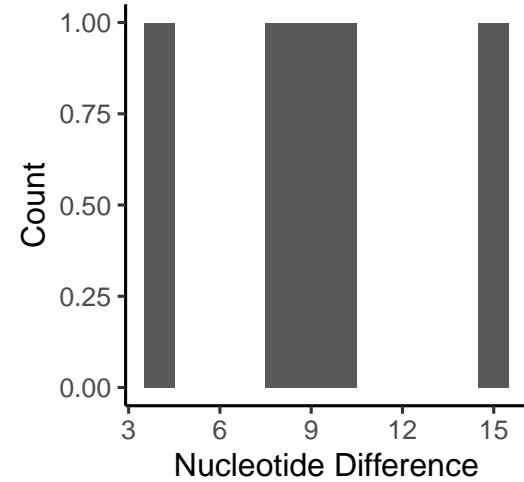
IGHV2-5*01

9 sequences assigned
No exact matches.



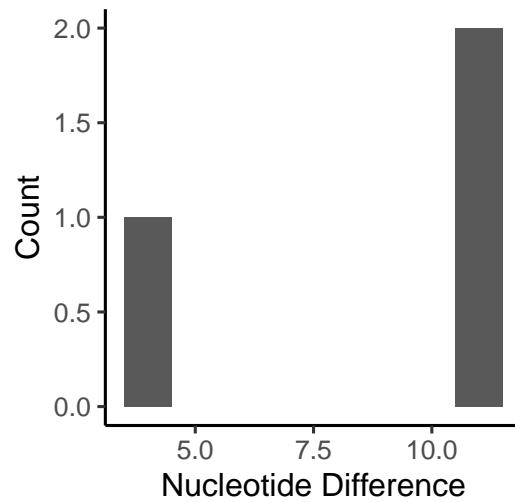
IGHV2-70*01

5 sequences assigned
No exact matches.



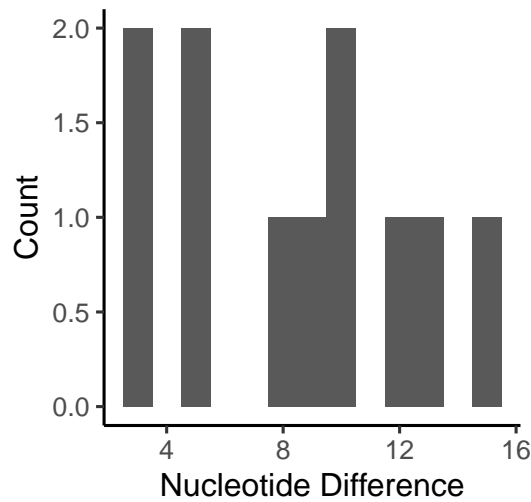
IGHV1-69*04_09

5 sequences assigned
No exact matches.



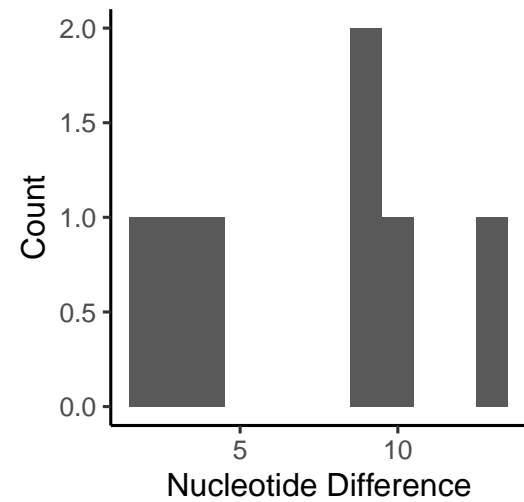
IGHV2-5*02

16 sequences assigned
No exact matches.



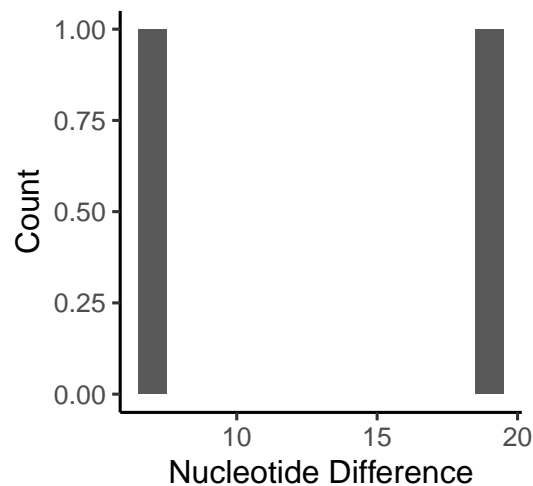
IGHV2-70*11_15

7 sequences assigned
No exact matches.



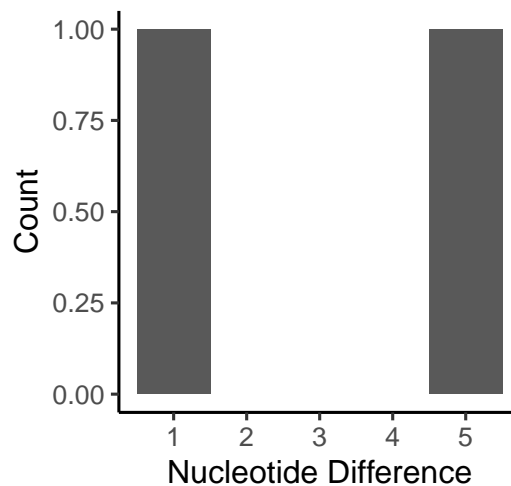
IGHV1-69*06_14

9 sequences assigned
No exact matches.



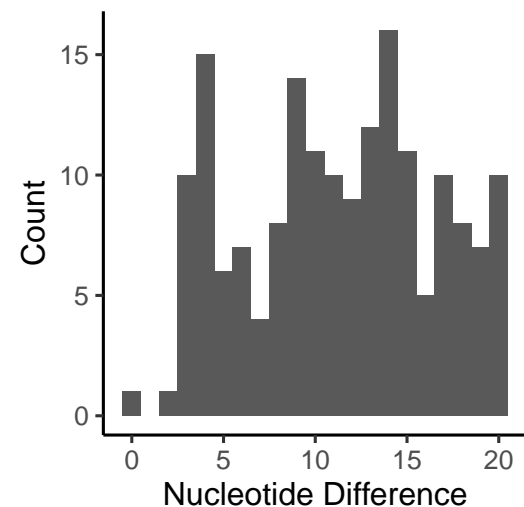
IGHV2-26*01

2 sequences assigned
No exact matches.



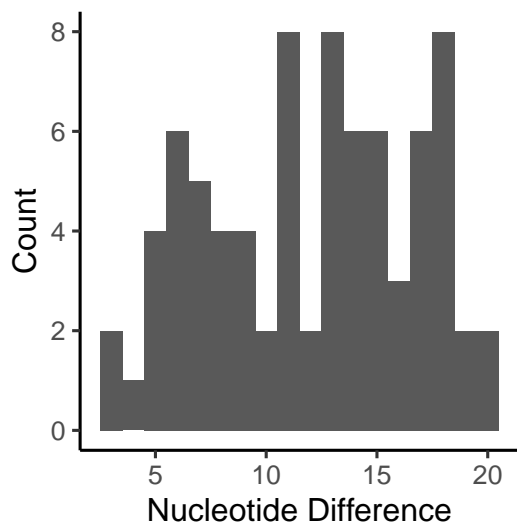
IGHV3-7*01

205 sequences assigned
1 (0.5%) exact matches, in which:
1 unique CDR3
1 unique J



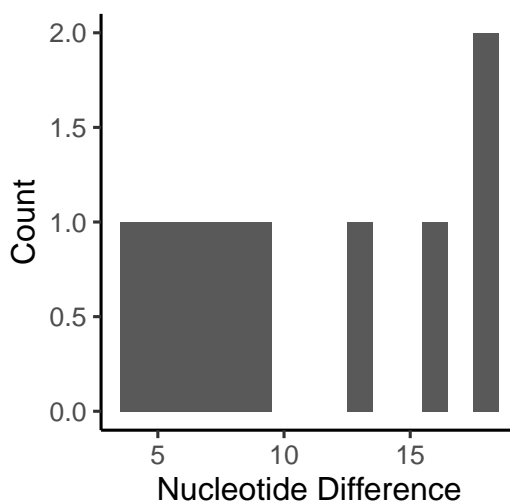
IGHV3-7*03

95 sequences assigned
No exact matches.



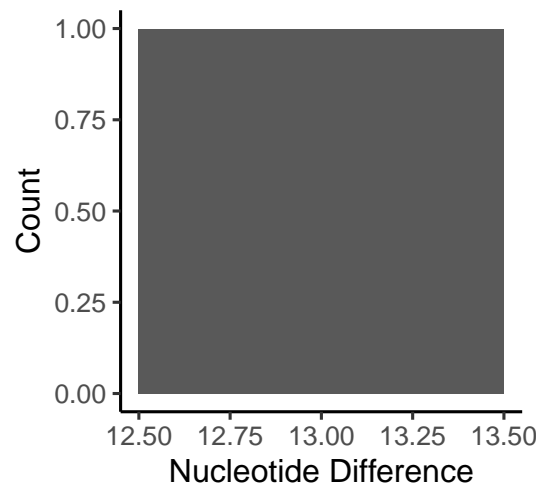
IGHV3-11*06

13 sequences assigned
No exact matches.



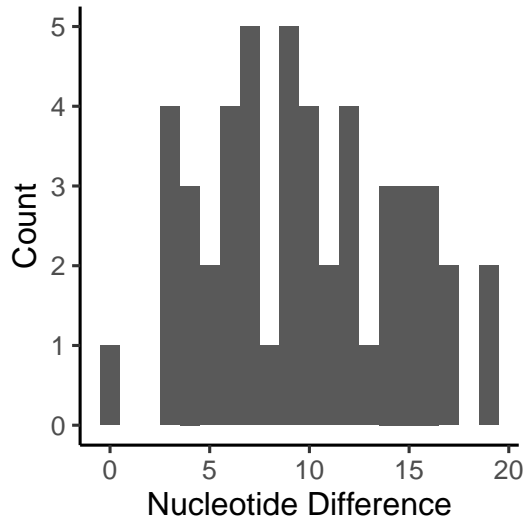
IGHV3-20*01_02

3 sequences assigned
No exact matches.



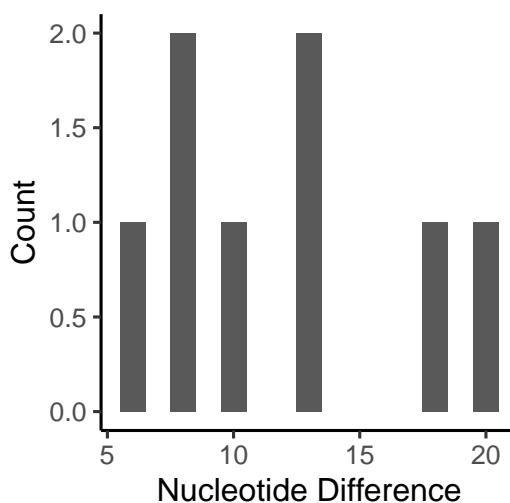
IGHV3-9*01

53 sequences assigned
1 (1.9%) exact matches, in which:
1 unique CDR3
1 unique J



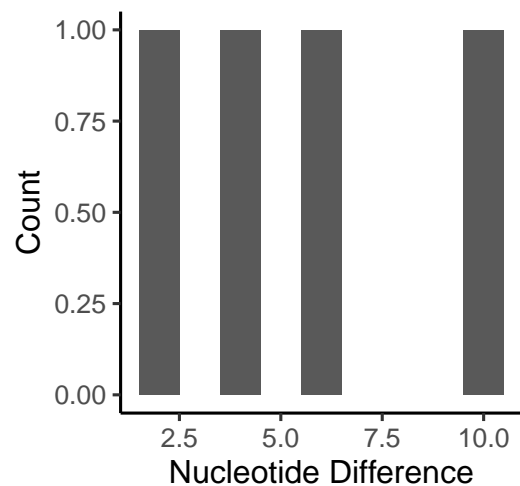
IGHV3-13*01

10 sequences assigned
No exact matches.



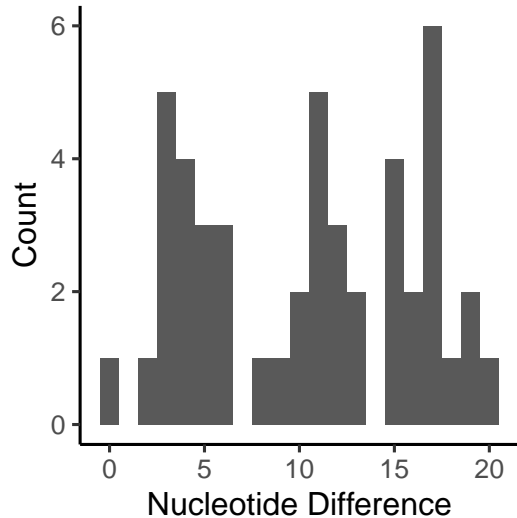
IGHV3-20*03_04

4 sequences assigned
No exact matches.



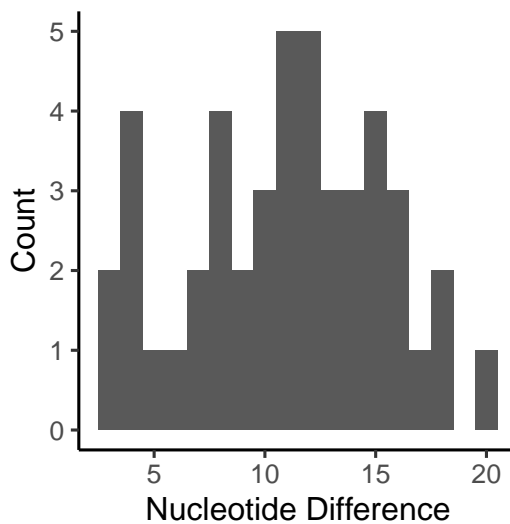
IGHV3-11*01

58 sequences assigned
1 (1.7%) exact matches, in which:
1 unique CDR3
1 unique J



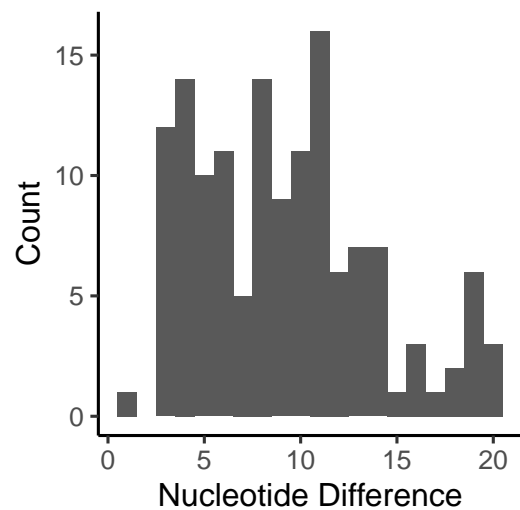
IGHV3-15*01_02

51 sequences assigned
No exact matches.



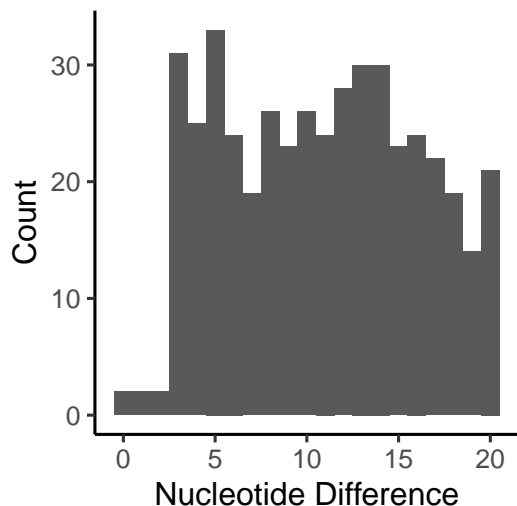
IGHV3-21*01_02

162 sequences assigned
No exact matches.



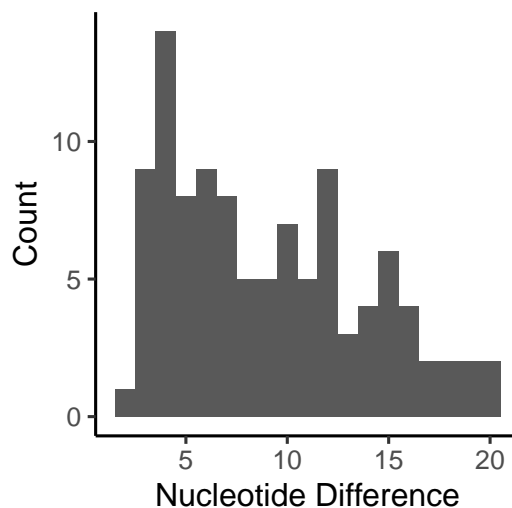
IGHV3-23*01_04

546 sequences assigned
2 (0.4%) exact matches, in which:
2 unique CDR3
2 unique J



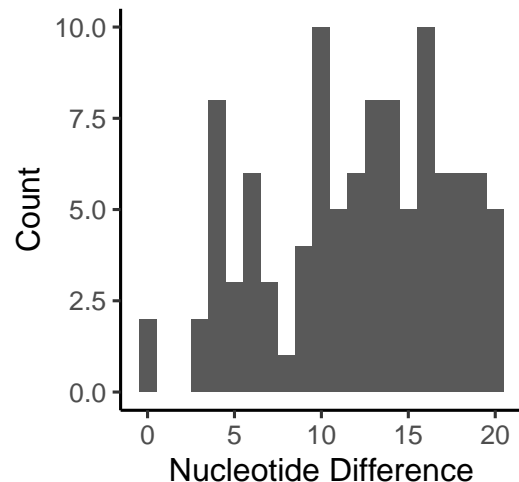
IGHV3-33*01

126 sequences assigned
No exact matches.



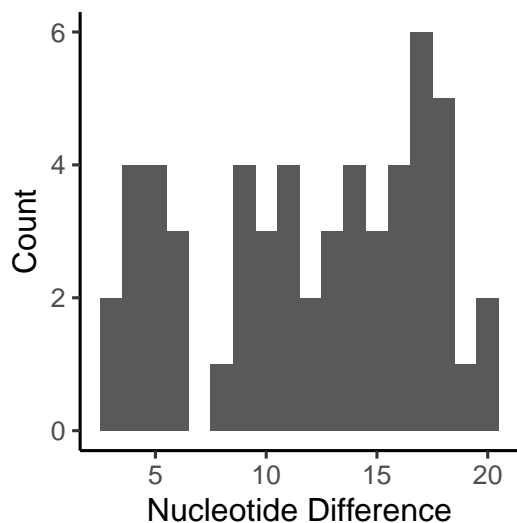
IGHV3-48*01

144 sequences assigned
2 (1.4%) exact matches, in which:
1 unique CDR3
1 unique J



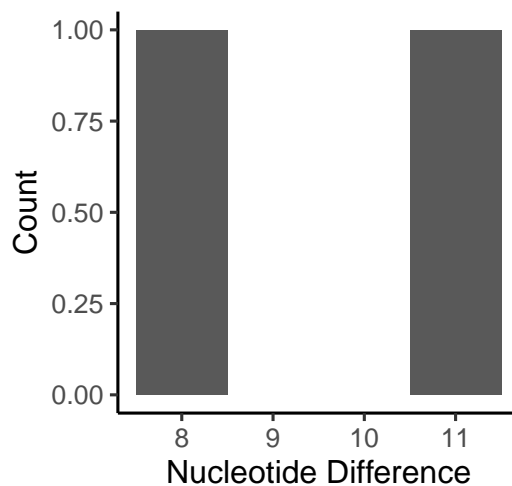
IGHV3-30-3*01

61 sequences assigned
No exact matches.



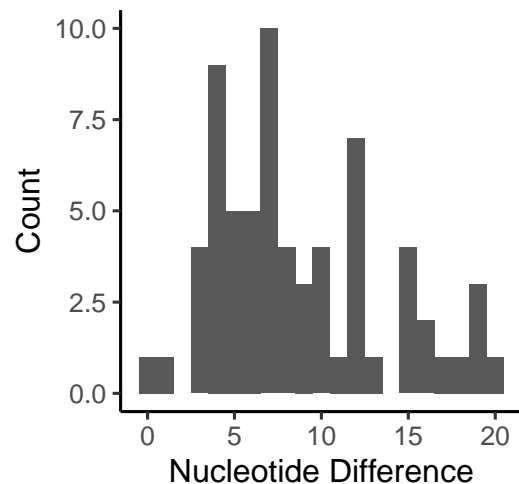
IGHV3-43*01

6 sequences assigned
No exact matches.



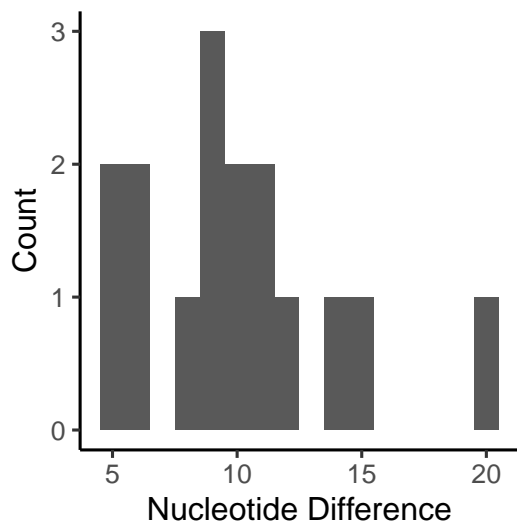
IGHV3-48*03

82 sequences assigned
1 (1.2%) exact matches, in which:
1 unique CDR3
1 unique J



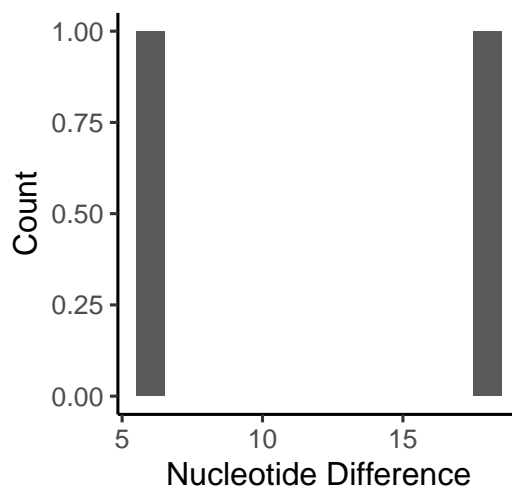
IGHV3-30*03

26 sequences assigned
No exact matches.



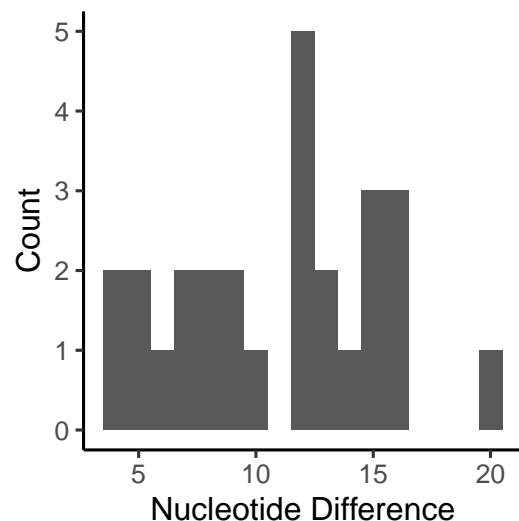
IGHV3-43*02

2 sequences assigned
No exact matches.



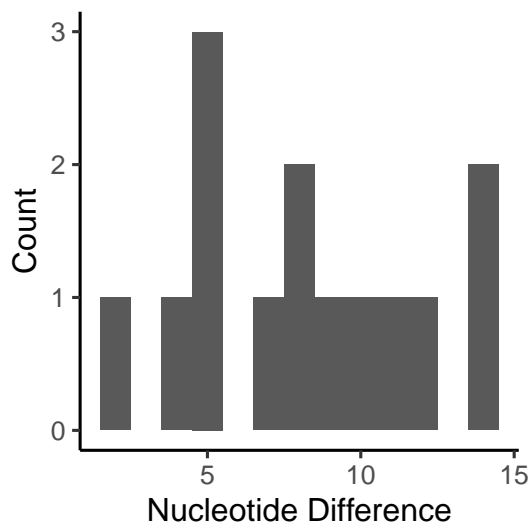
IGHV3-49*04

32 sequences assigned
No exact matches.



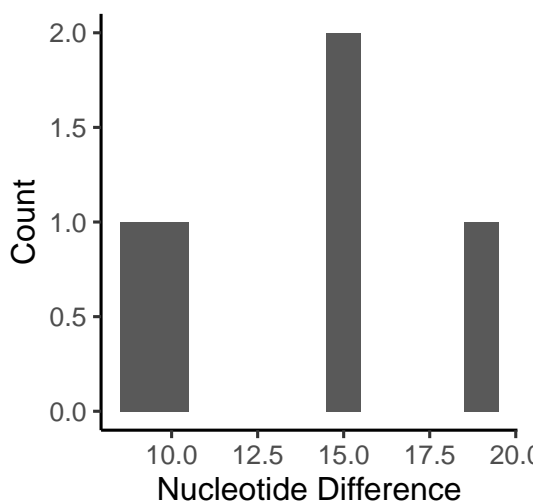
IGHV3-49*03_05

14 sequences assigned
No exact matches.



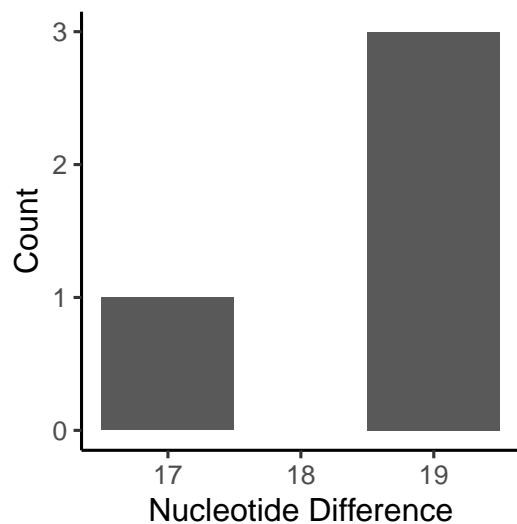
IGHV3-64*02_07

5 sequences assigned
No exact matches.



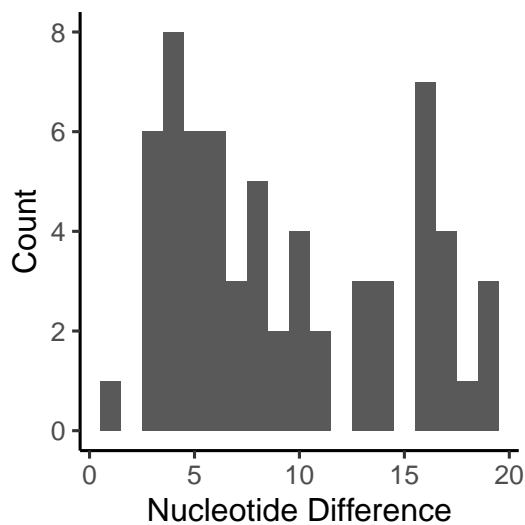
IGHV3-69-1*02

11 sequences assigned
No exact matches.



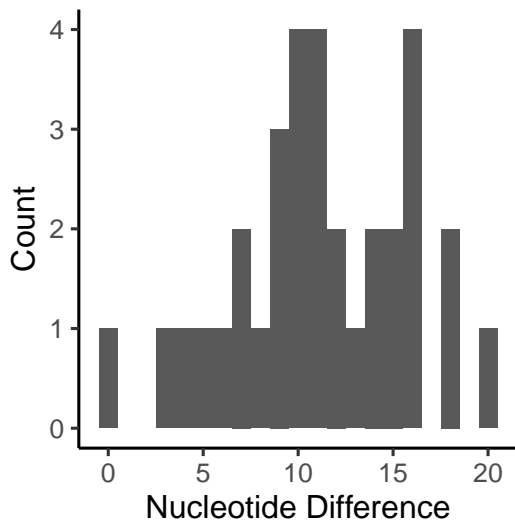
IGHV3-53*01_02

93 sequences assigned
No exact matches.



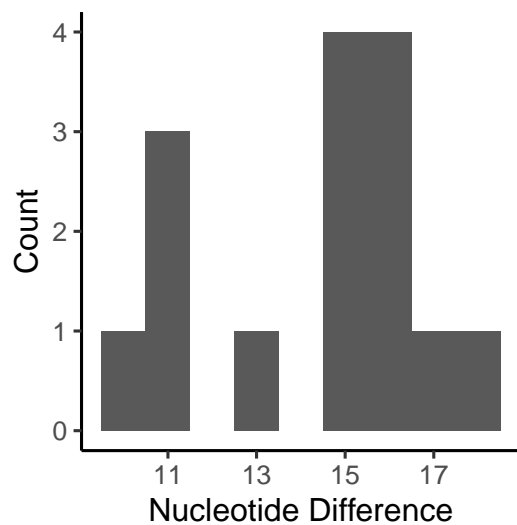
IGHV3-66*01

37 sequences assigned
1 (2.7%) exact matches, in which:
1 unique CDR3
1 unique J



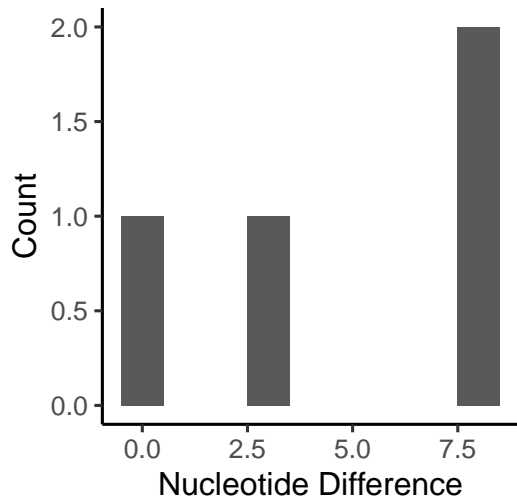
IGHV3-72*01

22 sequences assigned
No exact matches.



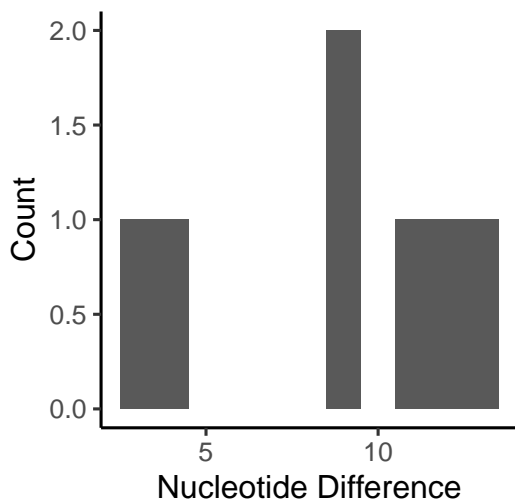
IGHV3-64*01

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



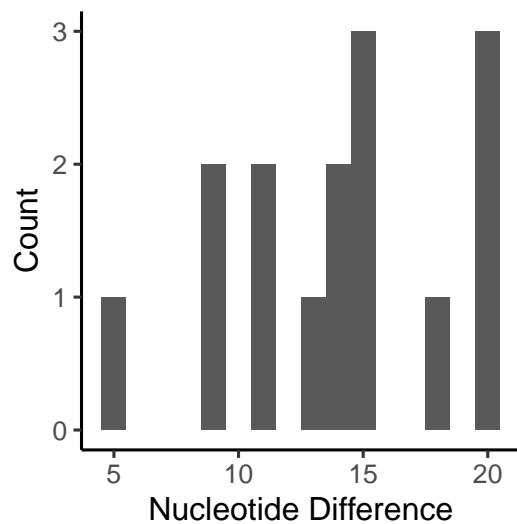
IGHV3-66*02

10 sequences assigned
No exact matches.



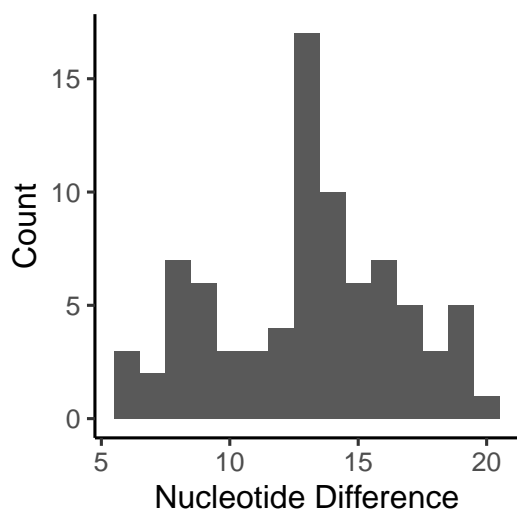
IGHV3-73*01_02

18 sequences assigned
No exact matches.



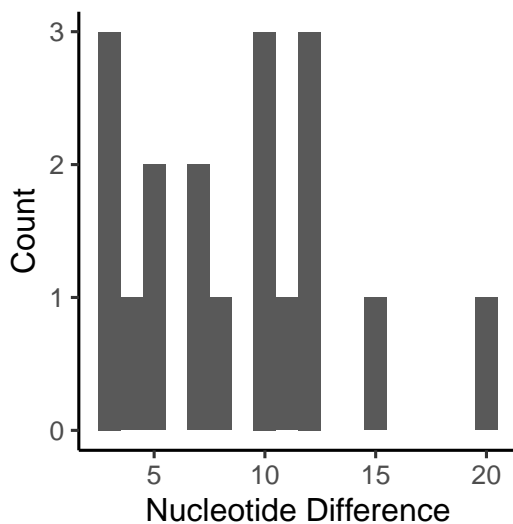
IGHV3-74*03

92 sequences assigned
No exact matches.



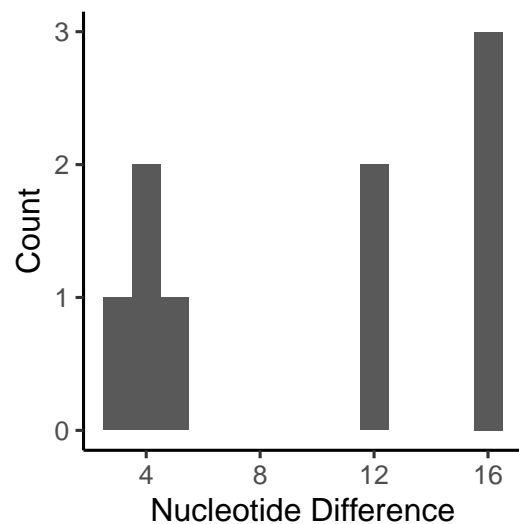
IGHV3-64D*06

24 sequences assigned
No exact matches.



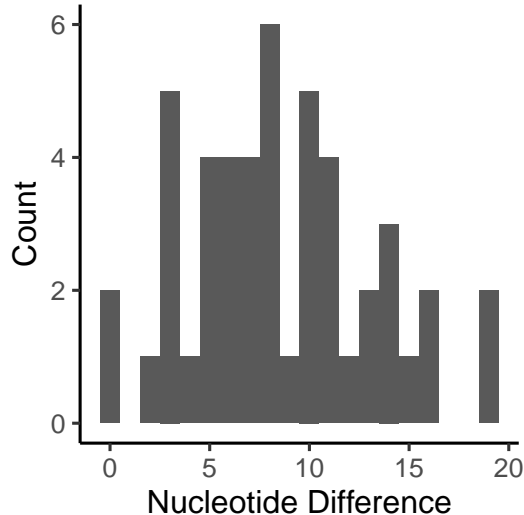
IGHV4-30-2*01

12 sequences assigned
No exact matches.



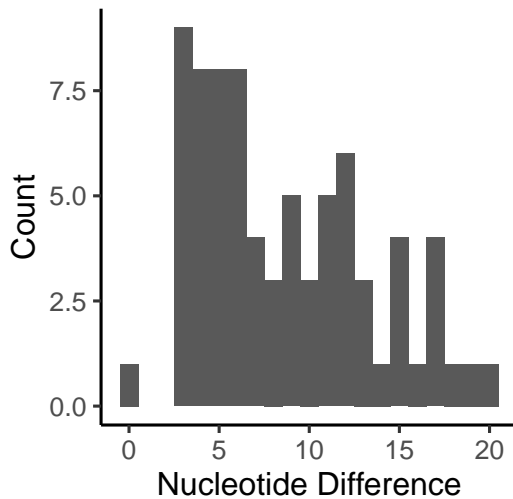
IGHV3-74*01_02

57 sequences assigned
2 (3.5%) exact matches, in which:
2 unique CDR3
1 unique J



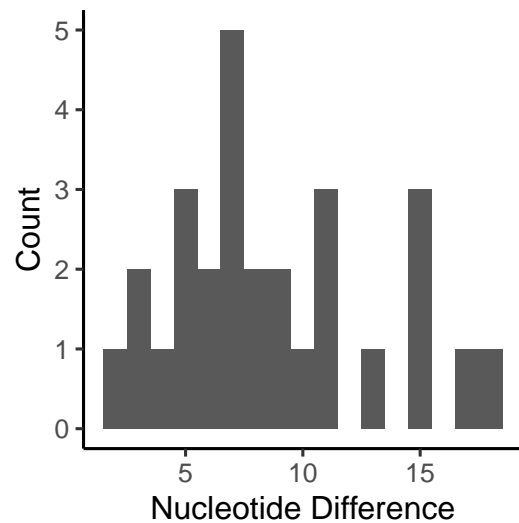
IGHV4-4*07

91 sequences assigned
1 (1.1%) exact matches, in which:
1 unique CDR3
0 unique J



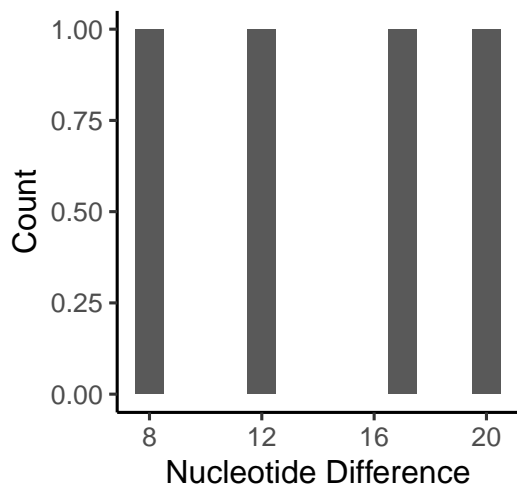
IGHV4-30-4*01

33 sequences assigned
No exact matches.



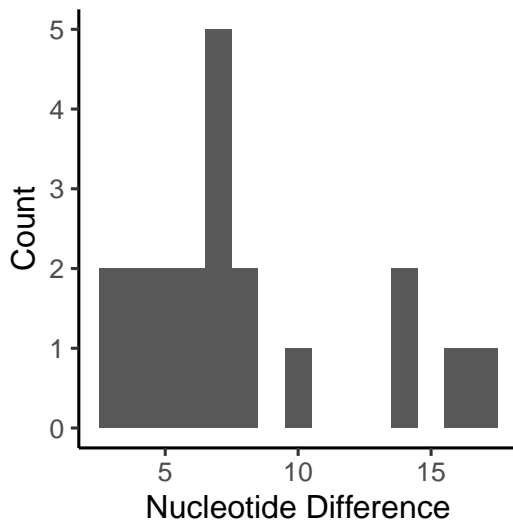
IGHV3-43D*04

4 sequences assigned
No exact matches.



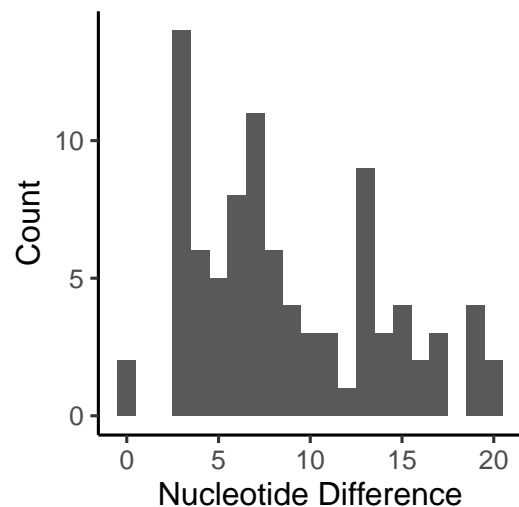
IGHV4-4*02_03

30 sequences assigned
No exact matches.



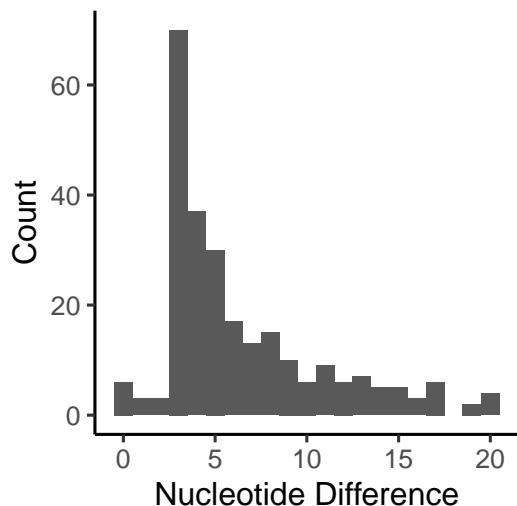
IGHV4-31*02

108 sequences assigned
2 (1.9%) exact matches, in which:
2 unique CDR3
2 unique J



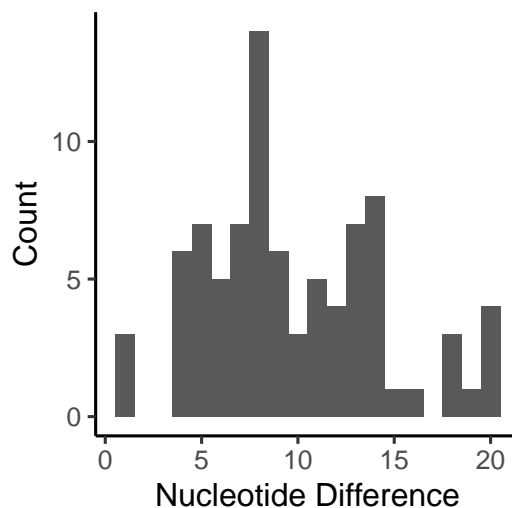
IGHV4-34*01_02

289 sequences assigned
6 (2.1%) exact matches, in which:
6 unique CDR3
2 unique J



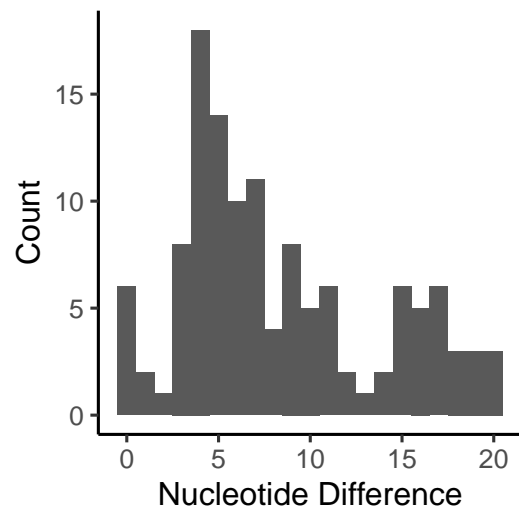
IGHV4-39*02

118 sequences assigned
No exact matches.



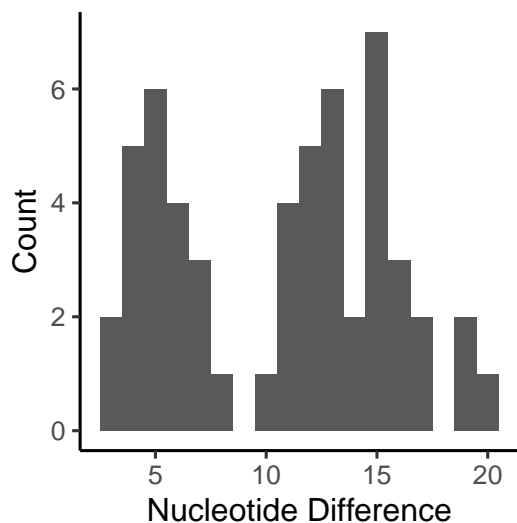
IGHV4-59*01_07

157 sequences assigned
6 (3.8%) exact matches, in which:
6 unique CDR3
2 unique J



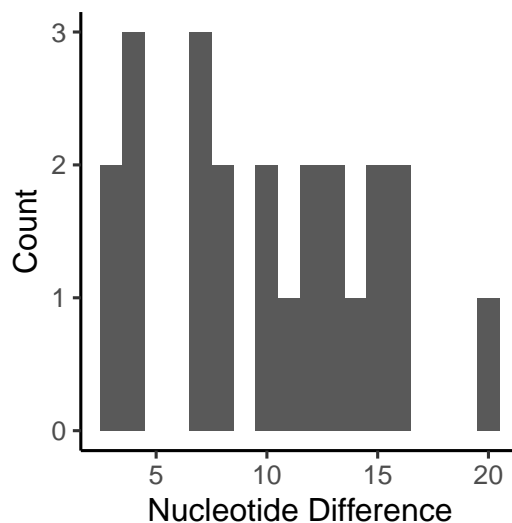
IGHV4-38-2*01

61 sequences assigned
No exact matches.



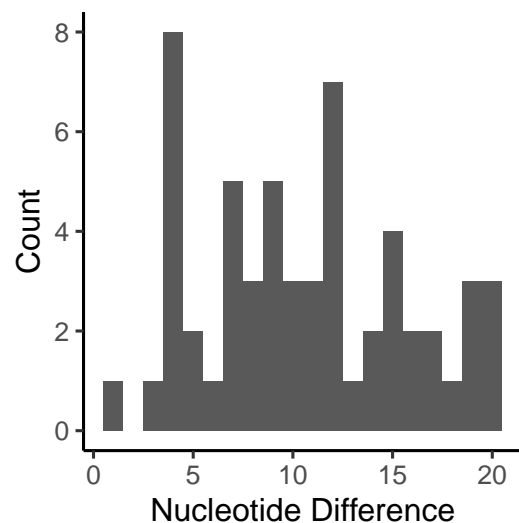
IGHV4-39*07

34 sequences assigned
No exact matches.



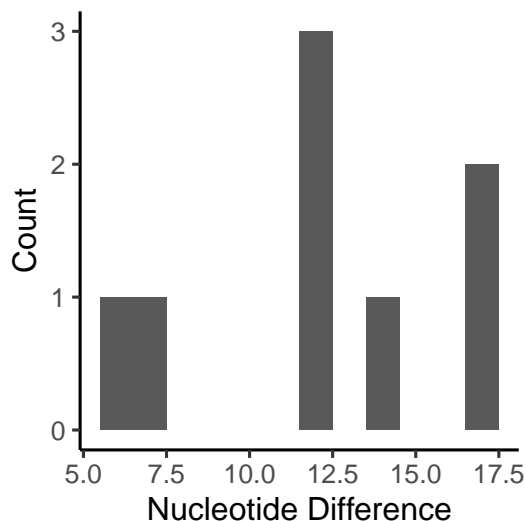
IGHV4-59*11

70 sequences assigned
No exact matches.



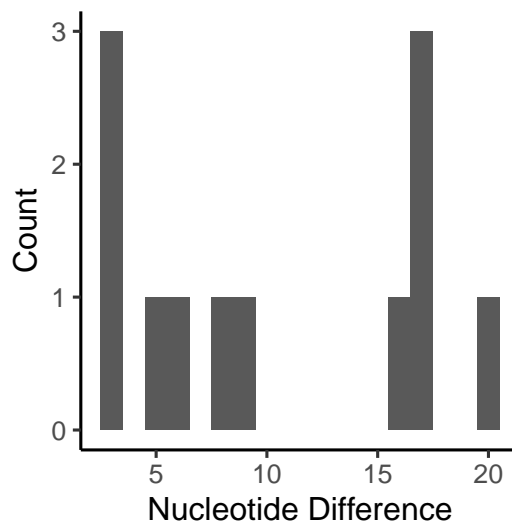
IGHV4-38-2*02

16 sequences assigned
No exact matches.



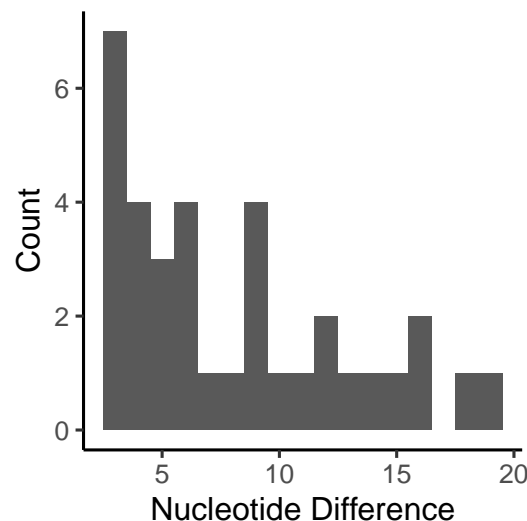
IGHV4-39*01_05

13 sequences assigned
No exact matches.



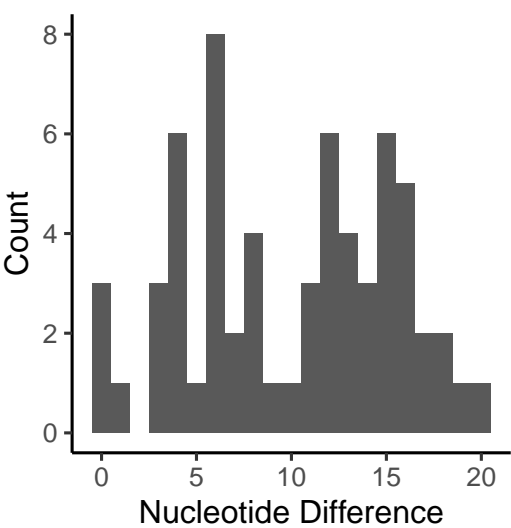
IGHV4-61*01

39 sequences assigned
No exact matches.



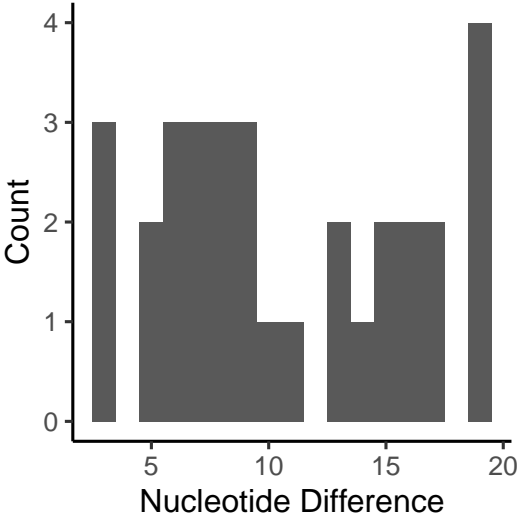
IGHV4-61*02

80 sequences assigned
3 (3.8%) exact matches, in which:
3 unique CDR3
2 unique J



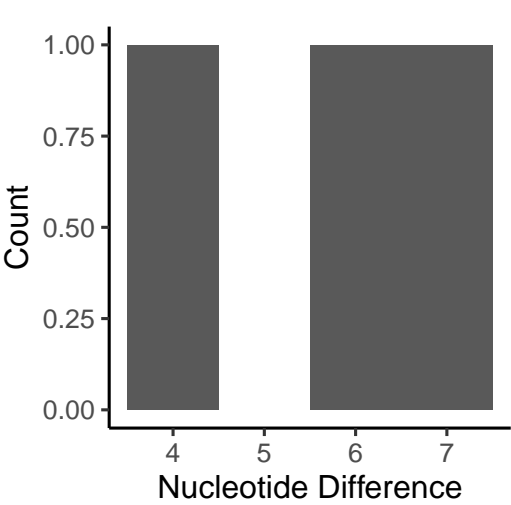
IGHV5-51*01_03

34 sequences assigned
No exact matches.



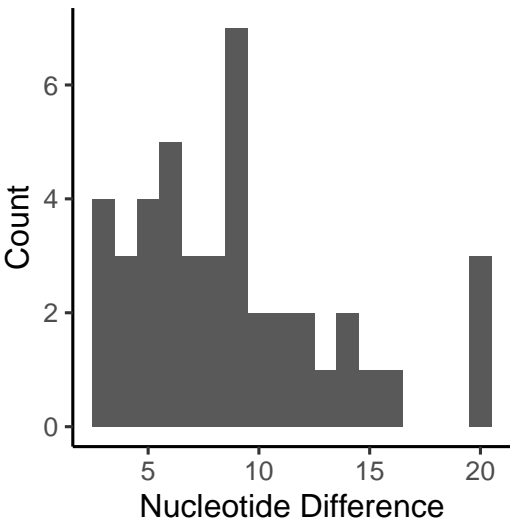
IGHV5-10-1*01_03

6 sequences assigned
No exact matches.



IGHV6-1*01_02

49 sequences assigned
No exact matches.



IGHV5-51*07

13 sequences assigned
No exact matches.

