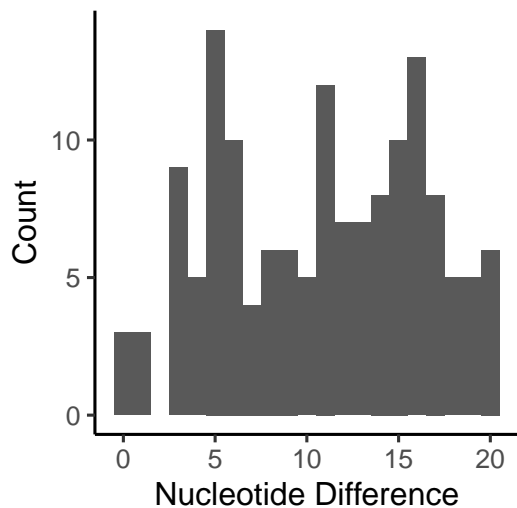


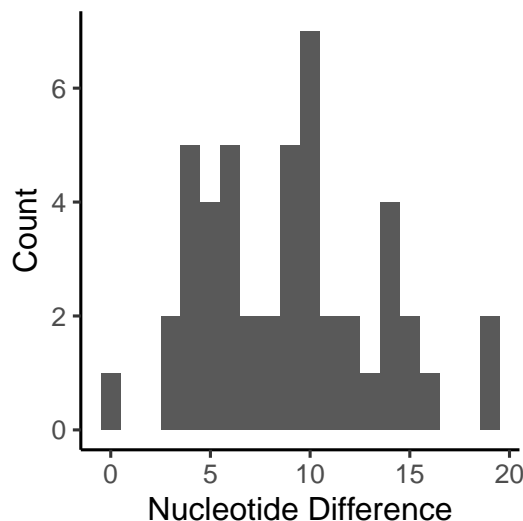
IGHV1-2*02

209 sequences assigned
3 (1.4%) exact matches, in which:
3 unique CDR3
2 unique J



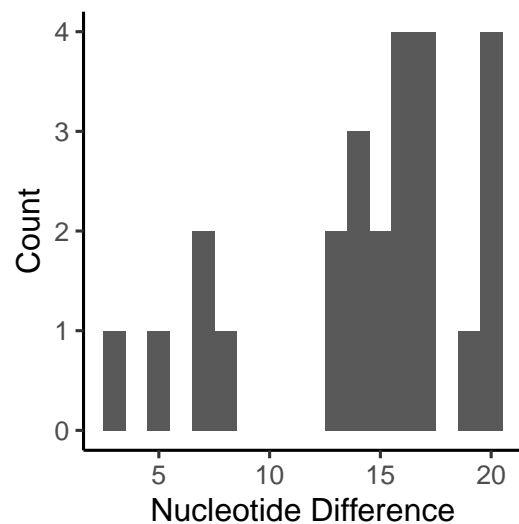
IGHV1-8*01

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



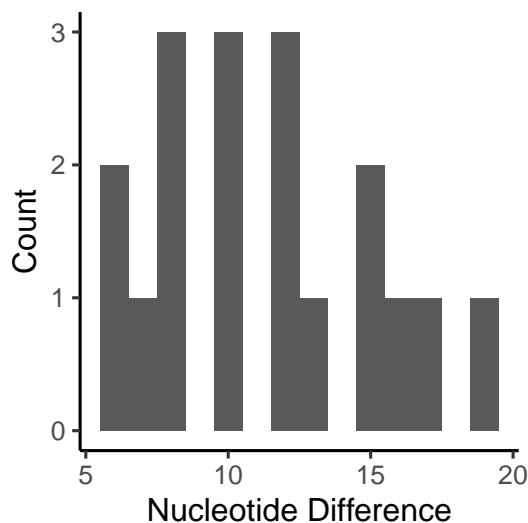
IGHV1-24*01

42 sequences assigned
No exact matches.



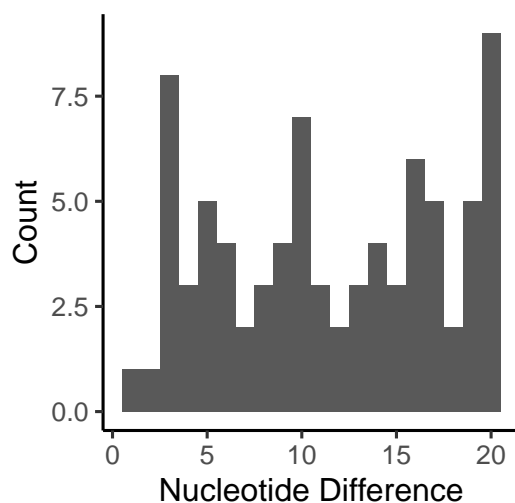
IGHV1-3*04

24 sequences assigned
No exact matches.



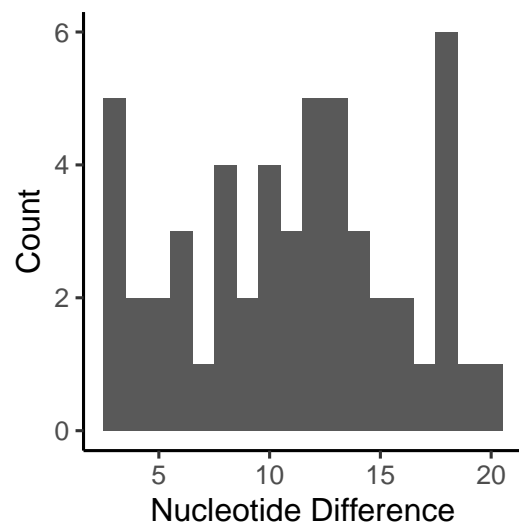
IGHV1-18*01

111 sequences assigned
No exact matches.



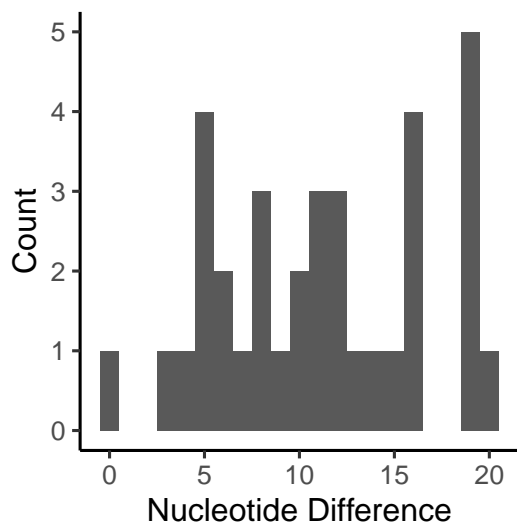
IGHV1-46*01

83 sequences assigned
No exact matches.



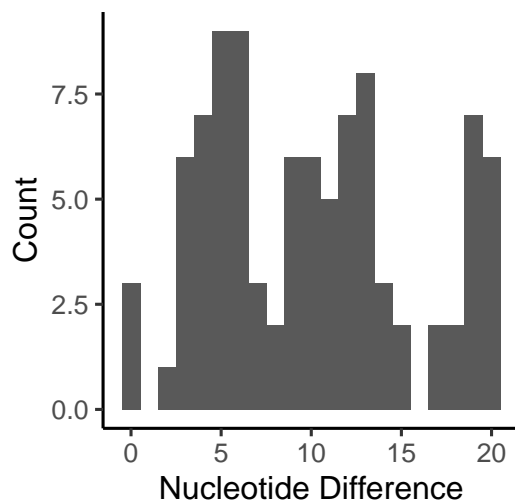
IGHV1-3*01_05

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



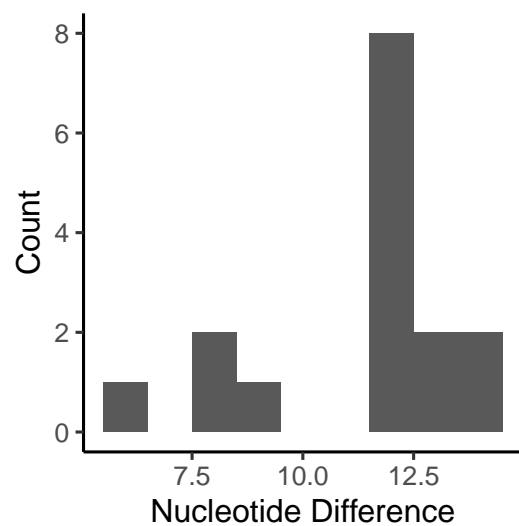
IGHV1-18*04

119 sequences assigned
3 (2.5%) exact matches, in which:
2 unique CDR3
1 unique J



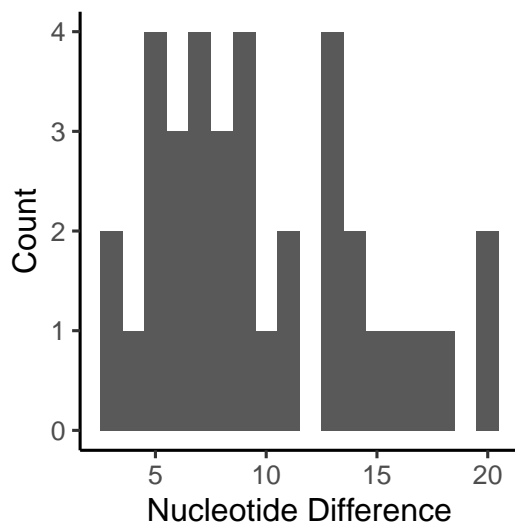
IGHV1-58*01_03

17 sequences assigned
No exact matches.



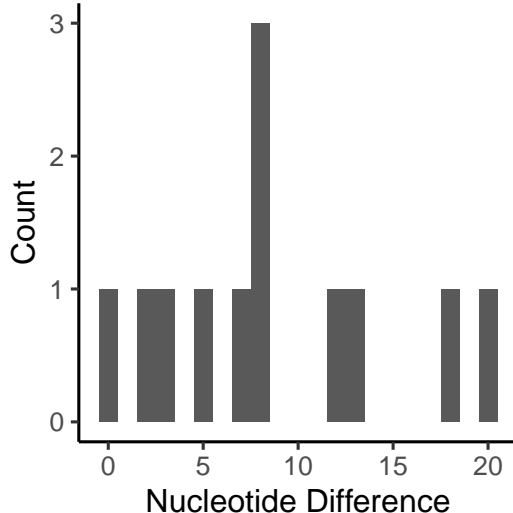
IGHV2-5*01

41 sequences assigned
No exact matches.



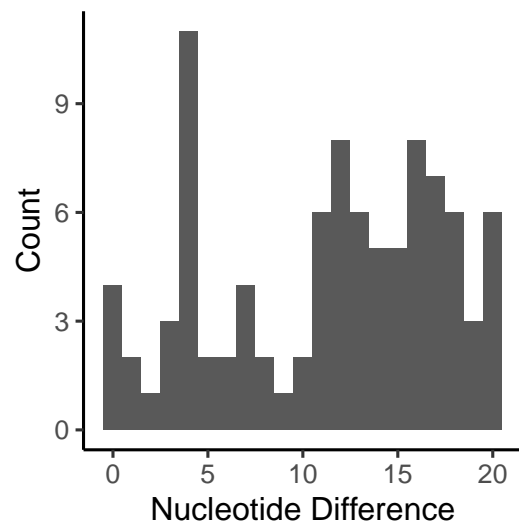
IGHV2-70*01

16 sequences assigned
1 (6.2%) exact matches, in which:
1 unique CDR3
1 unique J



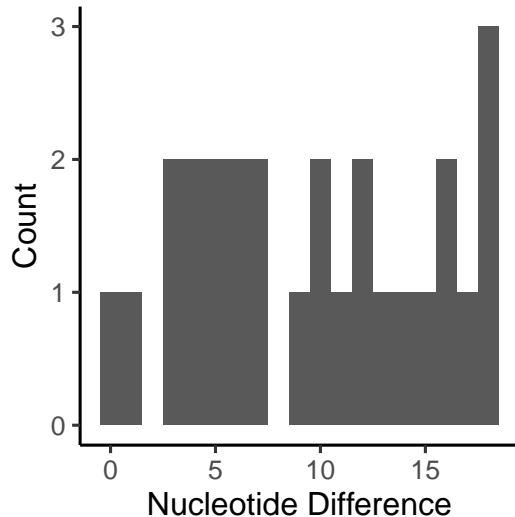
IGHV3-9*01

131 sequences assigned
4 (3.1%) exact matches, in which:
3 unique CDR3
2 unique J



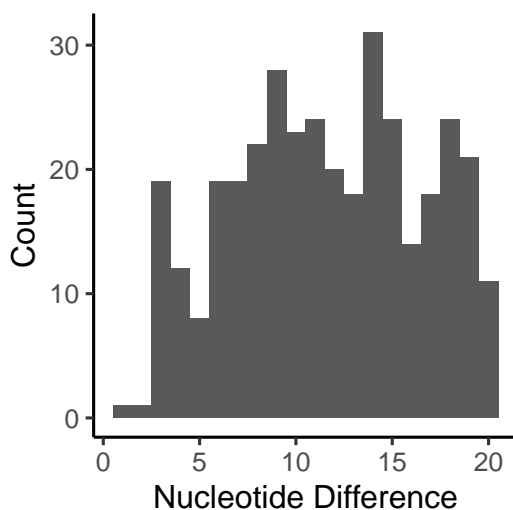
IGHV2-5*02

39 sequences assigned
1 (2.6%) exact matches, in which:
1 unique CDR3
1 unique J



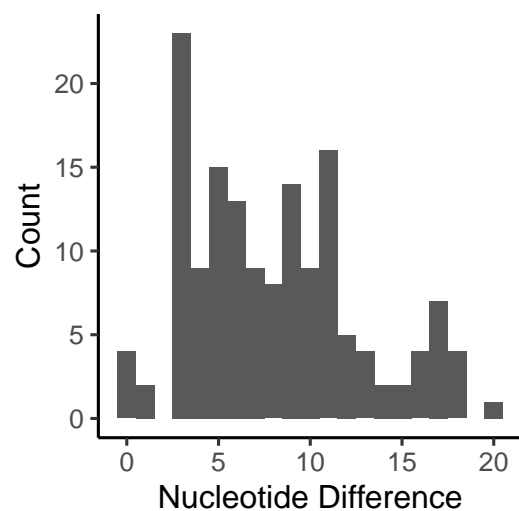
IGHV3-7*01

453 sequences assigned
No exact matches.



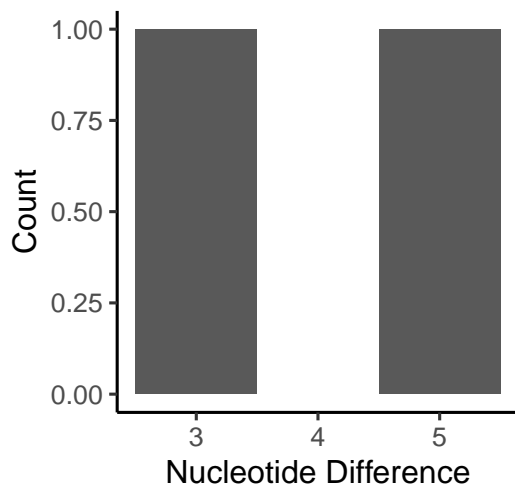
IGHV3-11*01

181 sequences assigned
4 (2.2%) exact matches, in which:
4 unique CDR3
3 unique J



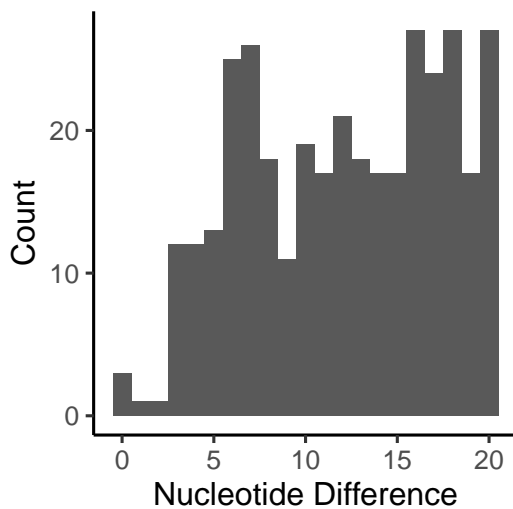
IGHV2-26*01

2 sequences assigned
No exact matches.



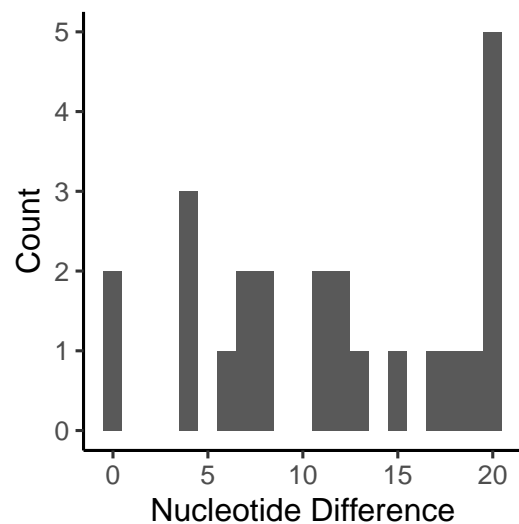
IGHV3-7*03

418 sequences assigned
3 (0.7%) exact matches, in which:
2 unique CDR3
1 unique J



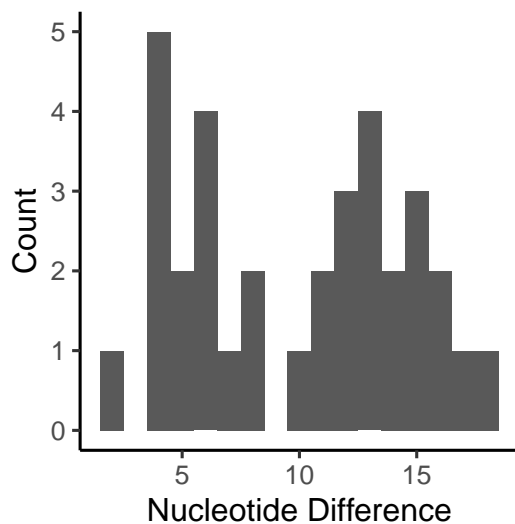
IGHV3-11*06

45 sequences assigned
2 (4.4%) exact matches, in which:
1 unique CDR3
1 unique J



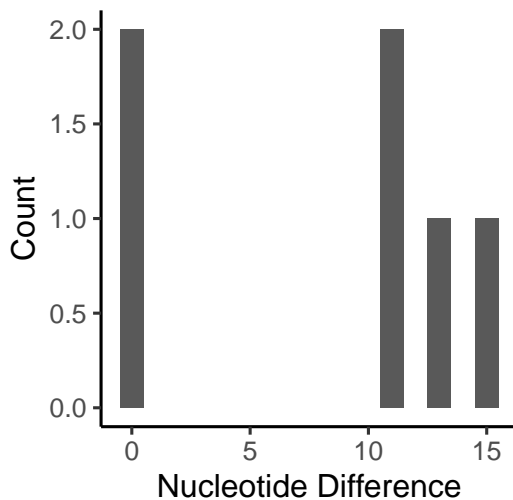
IGHV3-13*01

39 sequences assigned
No exact matches.



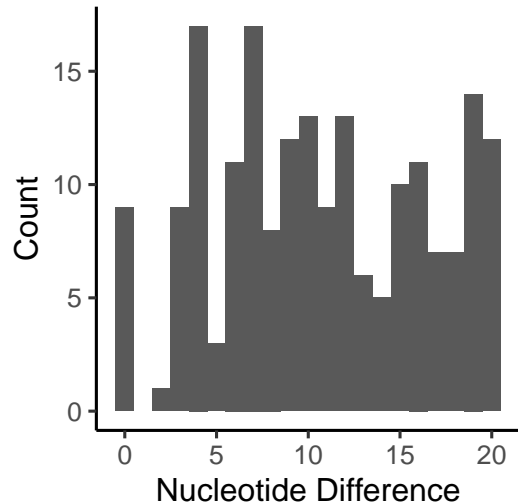
IGHV3-20*01_02

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



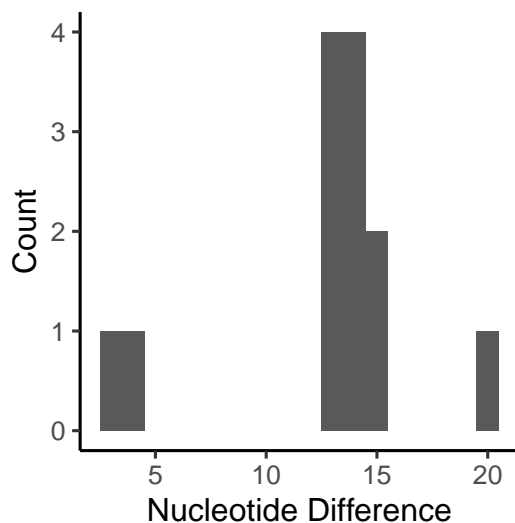
IGHV3-21*01_02

263 sequences assigned
9 (3.4%) exact matches, in which:
5 unique CDR3
2 unique J



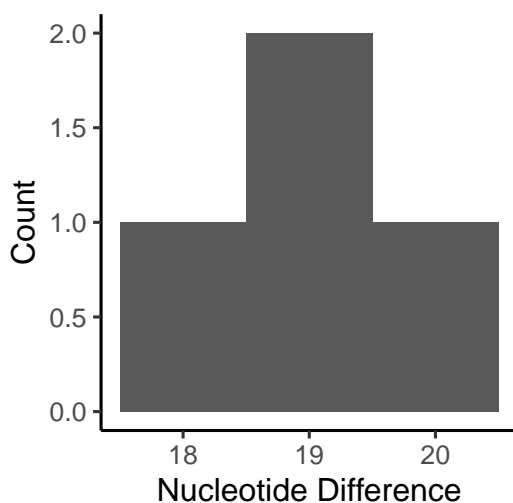
IGHV3-13*05

17 sequences assigned
No exact matches.



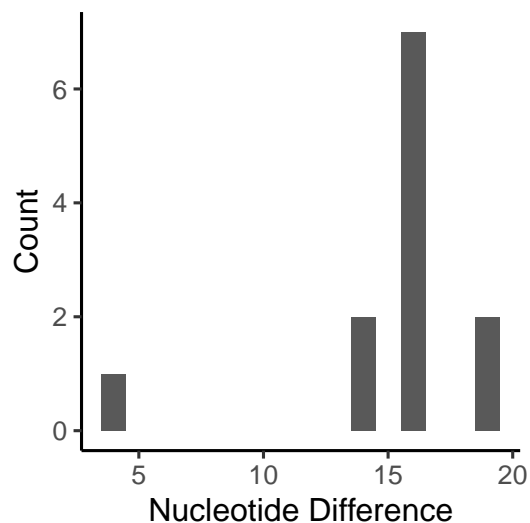
IGHV3-20*03_04

17 sequences assigned
No exact matches.



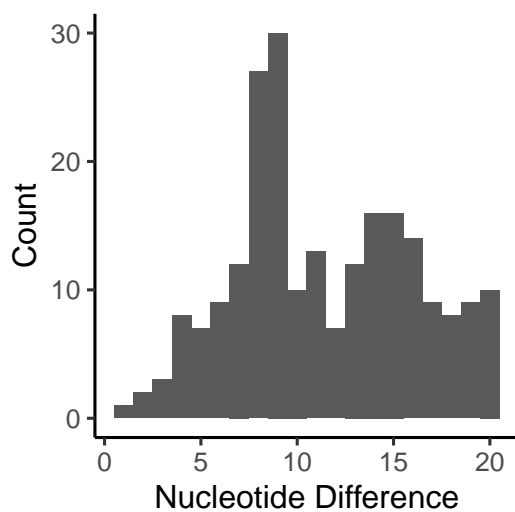
IGHV3-30*03

17 sequences assigned
No exact matches.



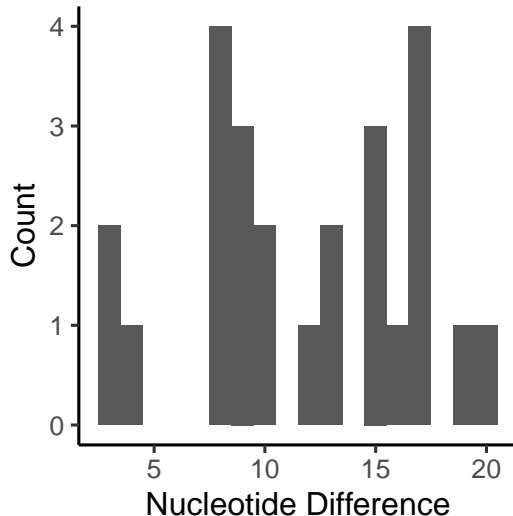
IGHV3-15*01_02

303 sequences assigned
No exact matches.



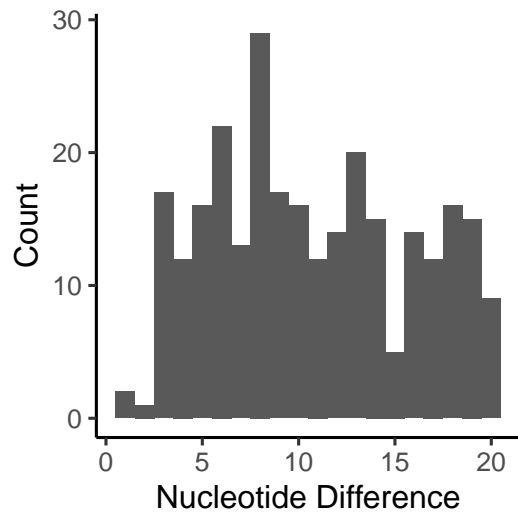
IGHV3-21*06

54 sequences assigned
No exact matches.



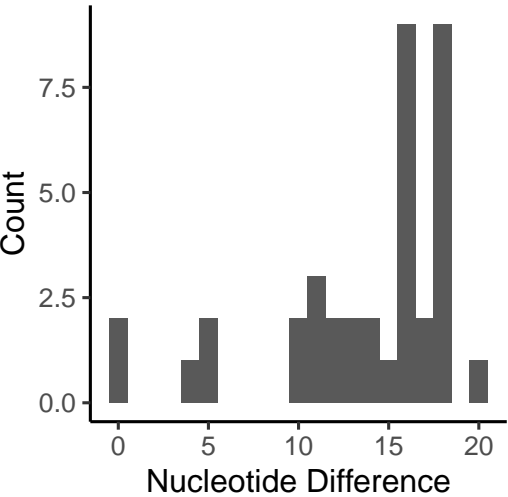
IGHV3-33*01

338 sequences assigned
No exact matches.



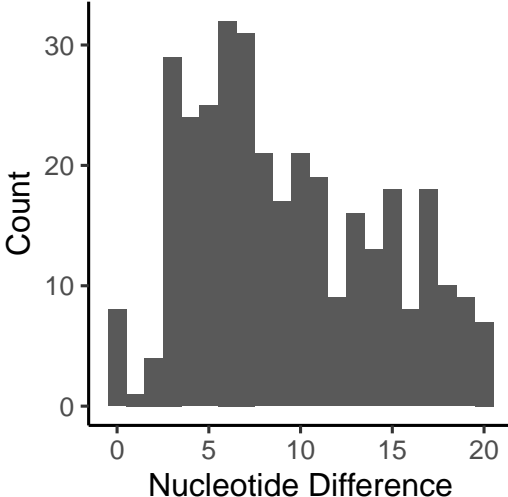
IGHV3-43*01

91 sequences assigned
2 (2.2%) exact matches, in which:
1 unique CDR3
1 unique J



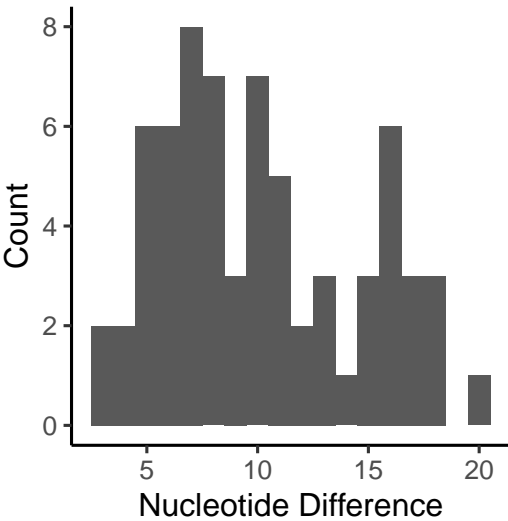
IGHV3-53*01_02

425 sequences assigned
8 (1.9%) exact matches, in which:
4 unique CDR3
3 unique J



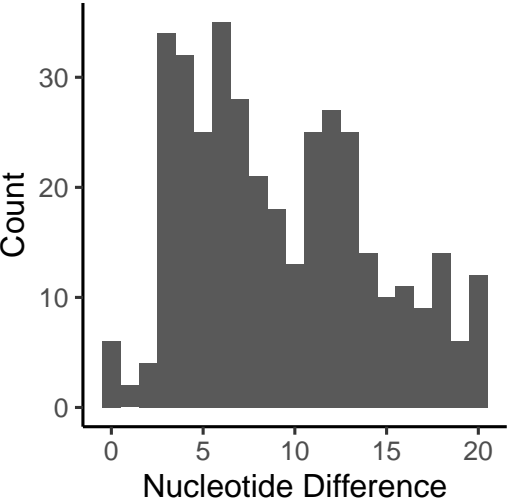
IGHV3-72*01

80 sequences assigned
No exact matches.



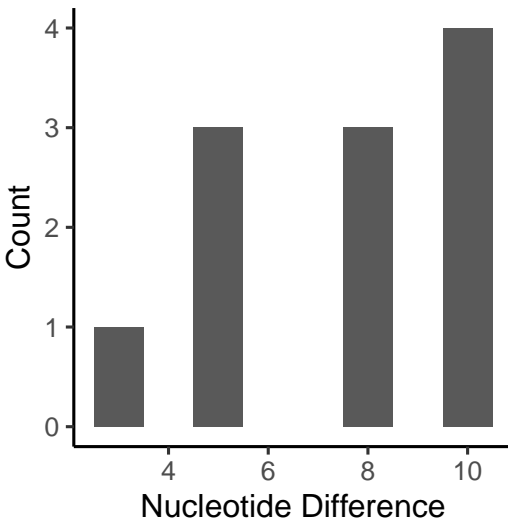
IGHV3-48*02

459 sequences assigned
6 (1.3%) exact matches, in which:
4 unique CDR3
3 unique J



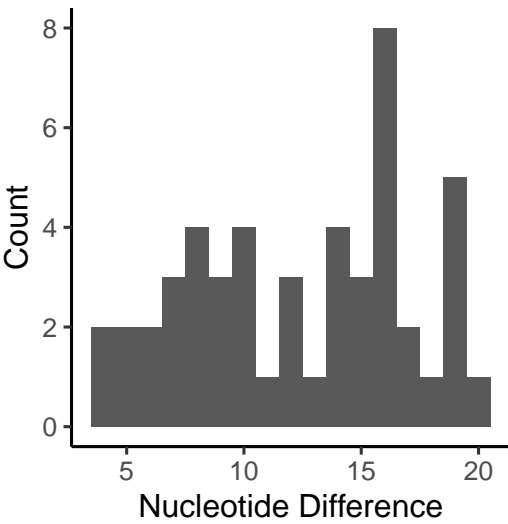
IGHV3-64*02_07

11 sequences assigned
No exact matches.



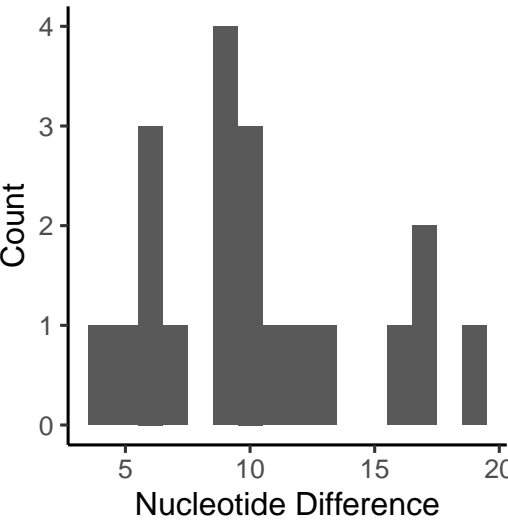
IGHV3-73*01_02

69 sequences assigned
No exact matches.



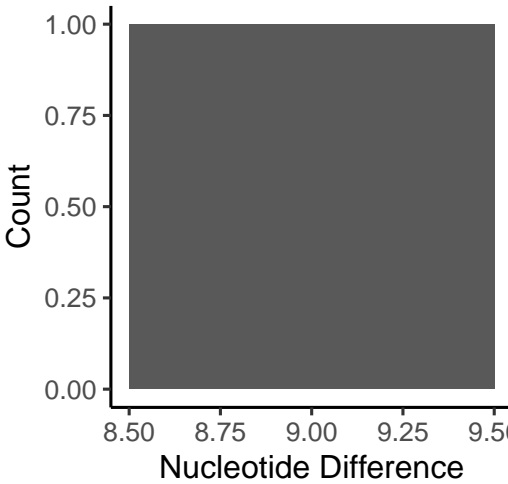
IGHV3-49*03_05

38 sequences assigned
No exact matches.



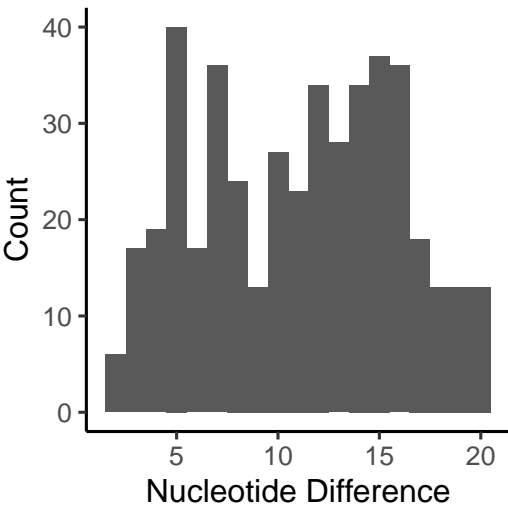
IGHV3-69-1*02

3 sequences assigned
No exact matches.



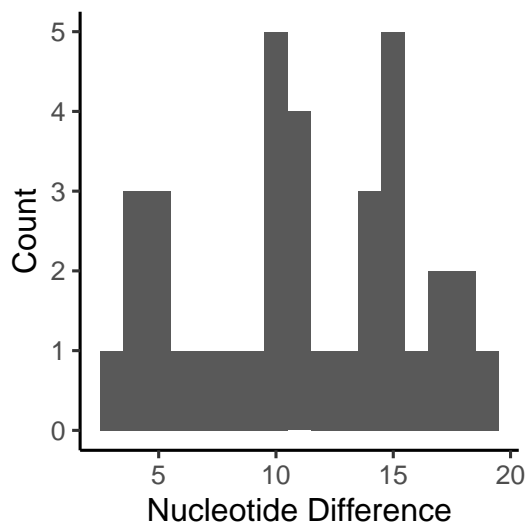
IGHV3-74*01_02

522 sequences assigned
No exact matches.



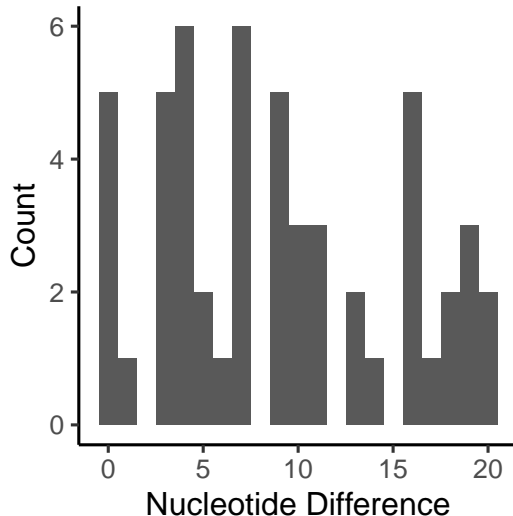
IGHV3-64D*06

44 sequences assigned
No exact matches.



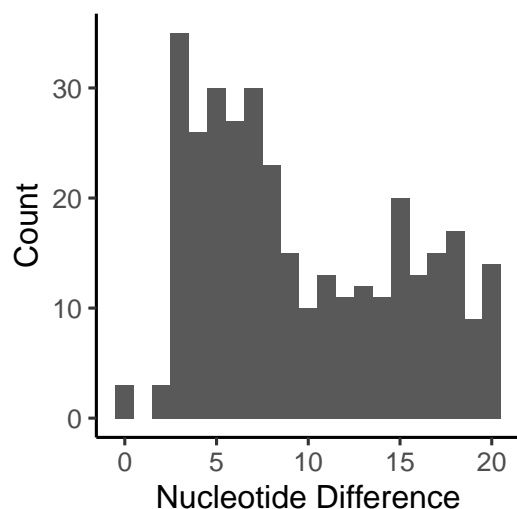
IGHV4-31*03_04

98 sequences assigned
5 (5.1%) exact matches, in which:
3 unique CDR3
2 unique J



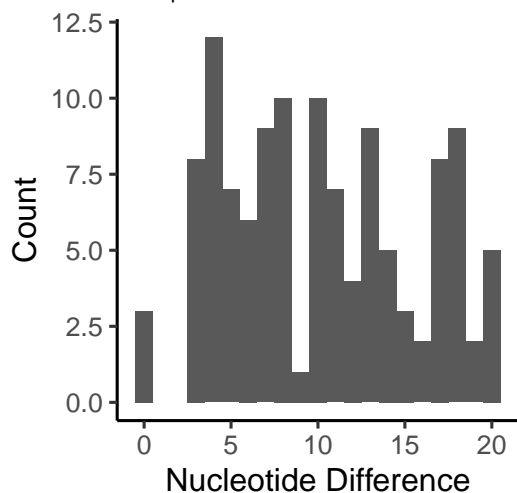
IGHV4-59*01_07

485 sequences assigned
3 (0.6%) exact matches, in which:
3 unique CDR3
1 unique J



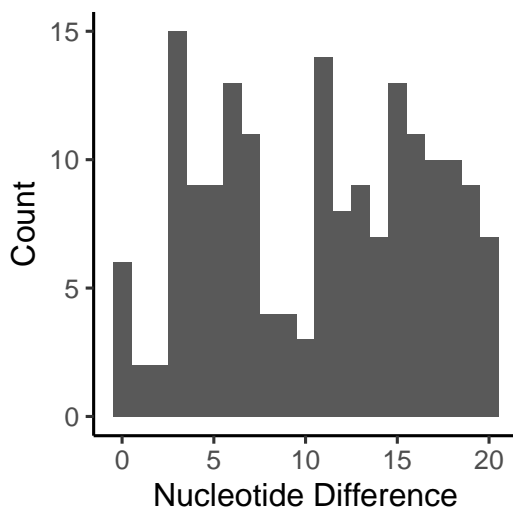
IGHV4-4*07

168 sequences assigned
3 (1.8%) exact matches, in which:
1 unique CDR3
1 unique J



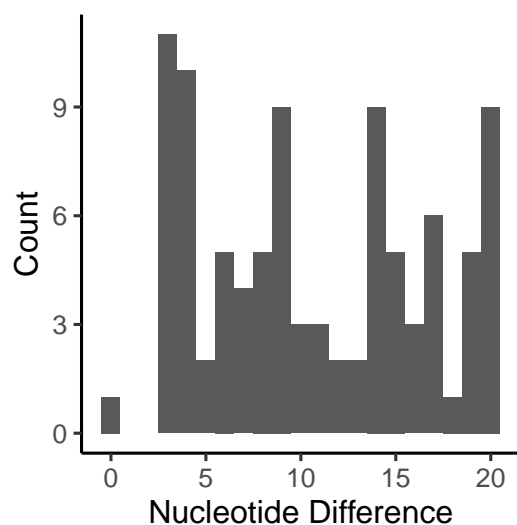
IGHV4-34*01_02

240 sequences assigned
6 (2.5%) exact matches, in which:
4 unique CDR3
2 unique J



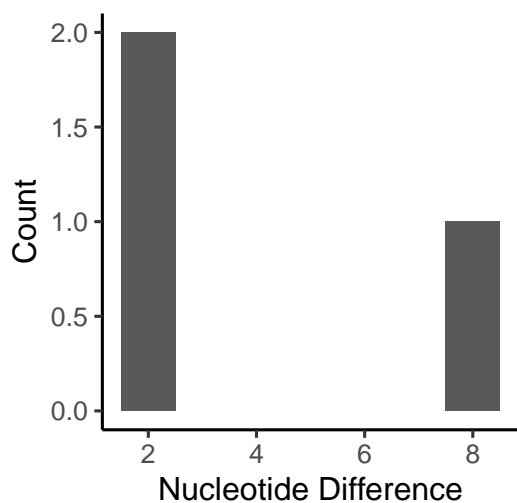
IGHV4-61*01

120 sequences assigned
1 (0.8%) exact matches, in which:
1 unique CDR3
1 unique J



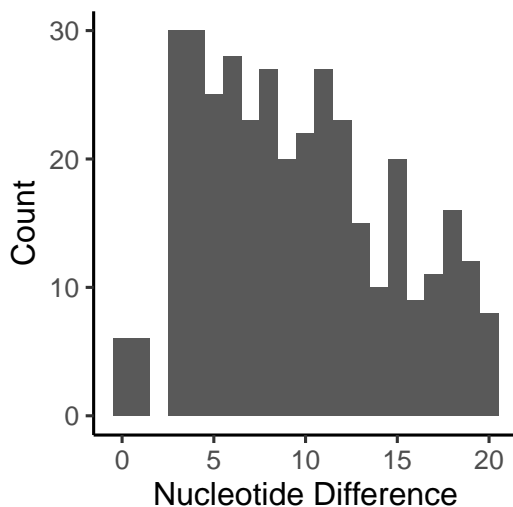
IGHV4-28*01_07

3 sequences assigned
No exact matches.



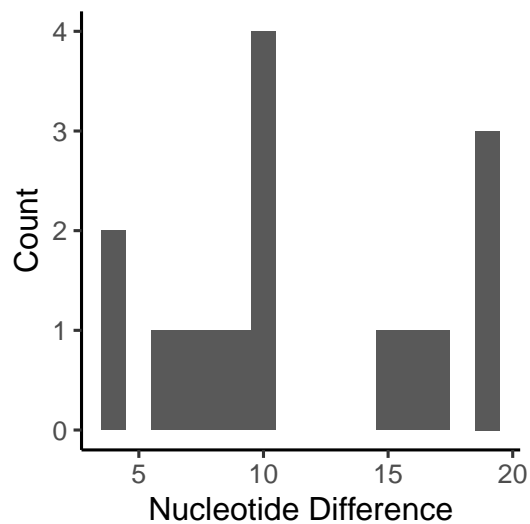
IGHV4-39*01_05

513 sequences assigned
6 (1.2%) exact matches, in which:
4 unique CDR3
2 unique J



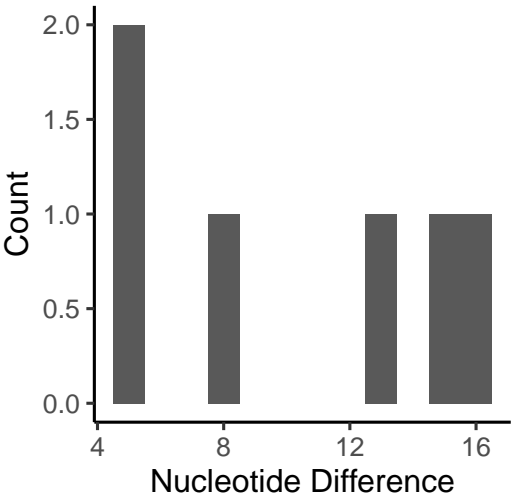
IGHV4-61*08

36 sequences assigned
No exact matches.



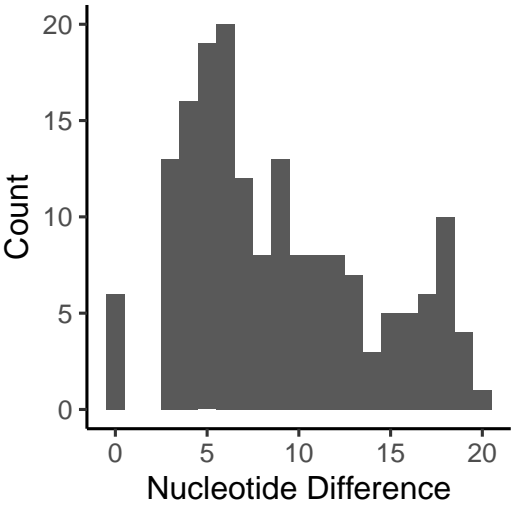
IGHV5-10-1*01_03

16 sequences assigned
No exact matches.



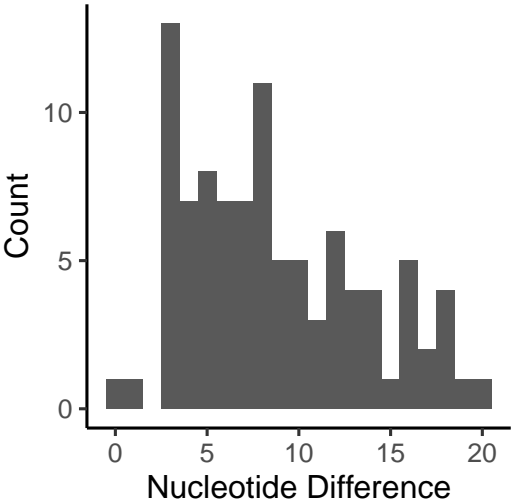
IGHV5-51*01_03

193 sequences assigned
6 (3.1%) exact matches, in which:
6 unique CDR3
2 unique J



IGHV6-1*01_02

109 sequences assigned
1 (0.9%) exact matches, in which:
1 unique CDR3
1 unique J





Never sequences(0) for IV 1 00 02=000A for IV 0 0 01=11200 are not listed in the genotype and will be ignored.