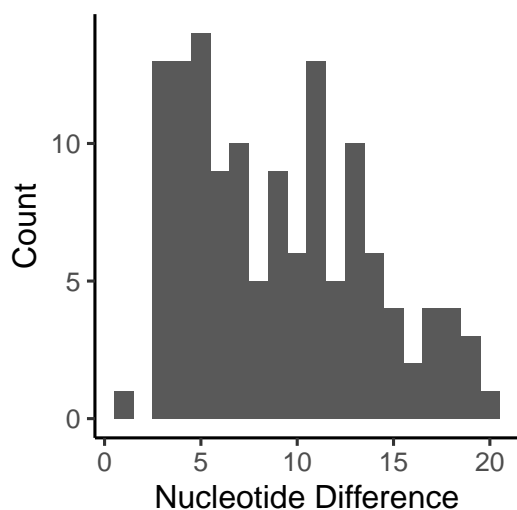


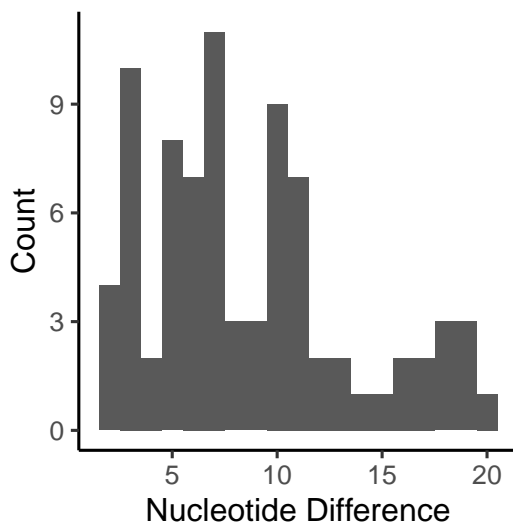
IGHV1-2*02

141 sequences assigned
No exact matches.



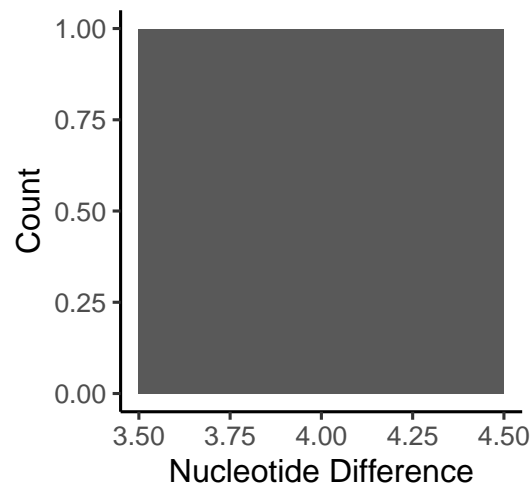
IGHV1-8*03

86 sequences assigned
No exact matches.



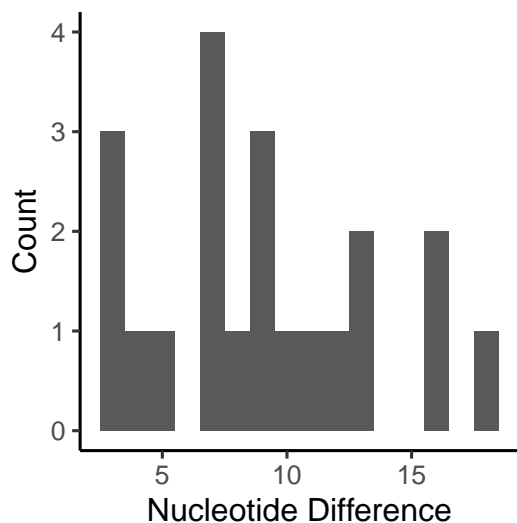
IGHV1-38-4*01

1 sequences assigned
No exact matches.



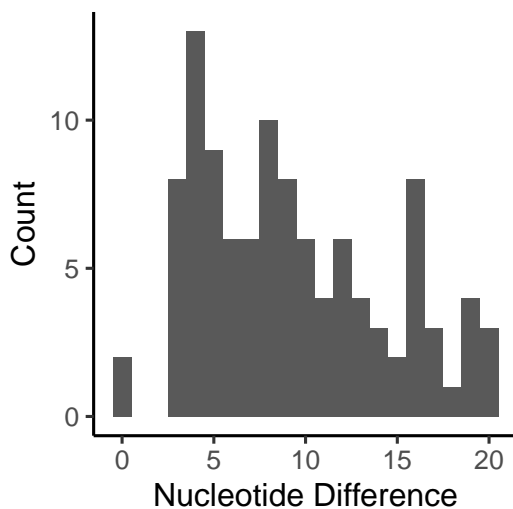
IGHV1-2*04

25 sequences assigned
No exact matches.



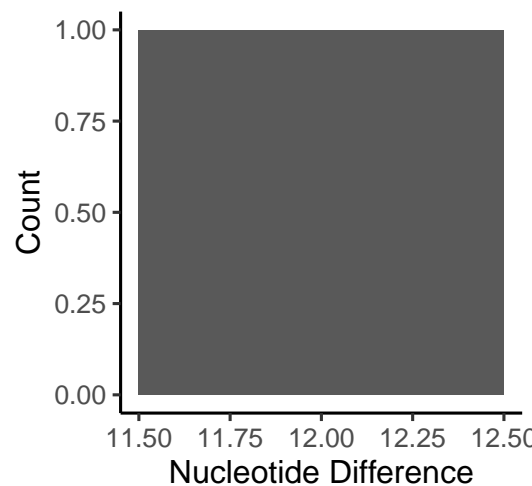
IGHV1-18*01

135 sequences assigned
2 (1.5%) exact matches, in which:
2 unique CDR3
1 unique J



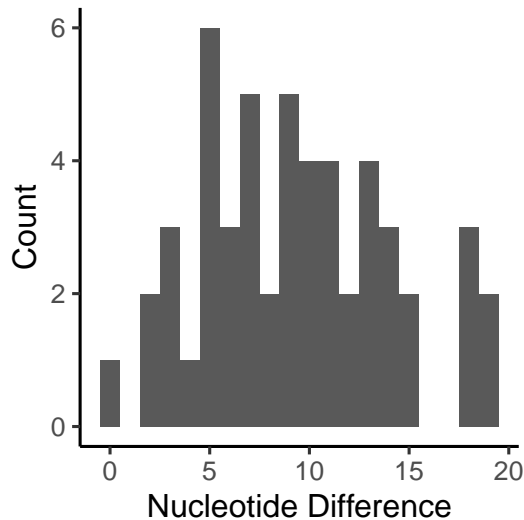
IGHV1-45*02

1 sequences assigned
No exact matches.



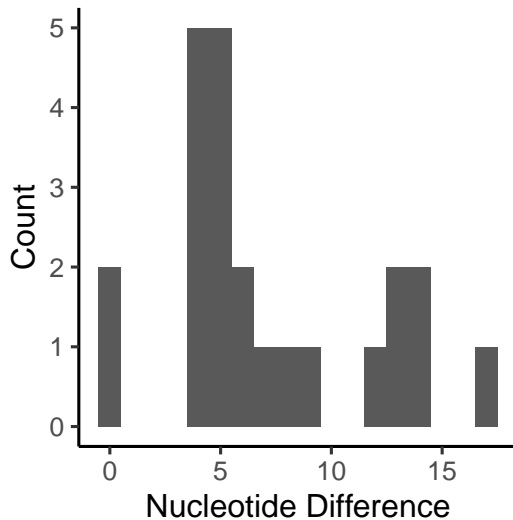
IGHV1-3*01_05

63 sequences assigned
1 (1.6%) exact matches, in which:
1 unique CDR3
1 unique J



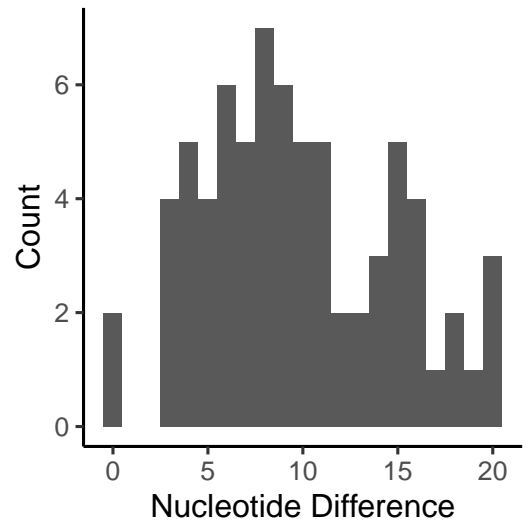
IGHV1-24*01

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



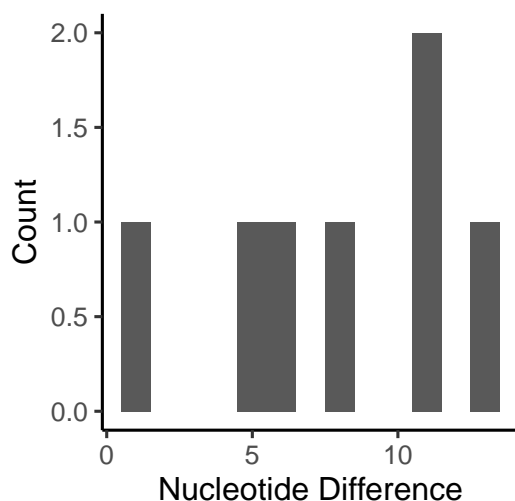
IGHV1-46*01

82 sequences assigned
2 (2.4%) exact matches, in which:
2 unique CDR3
2 unique J



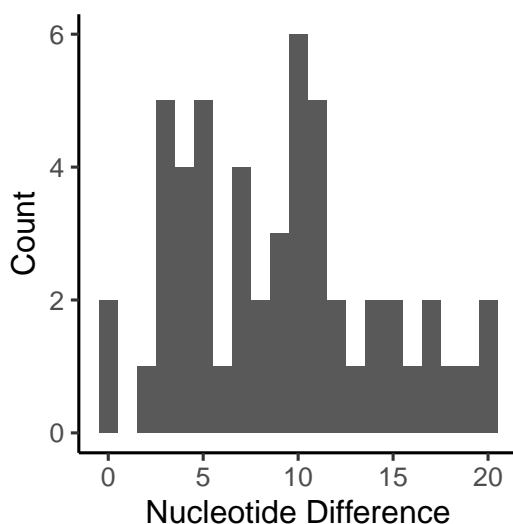
IGHV1-58*01_03

7 sequences assigned
No exact matches.



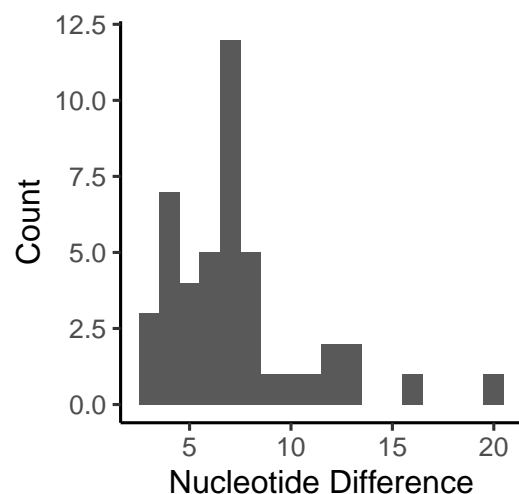
IGHV1-69*06_14

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



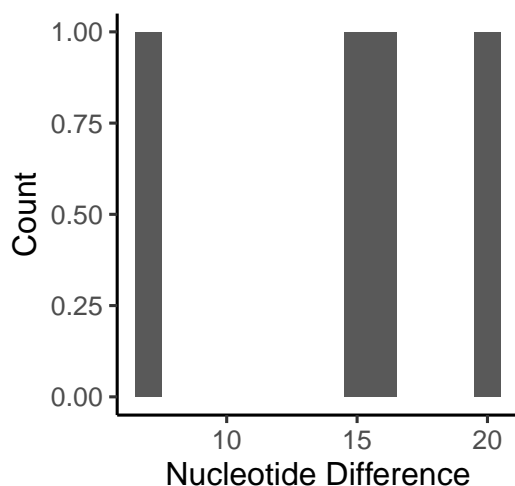
IGHV2-5*02

48 sequences assigned
No exact matches.



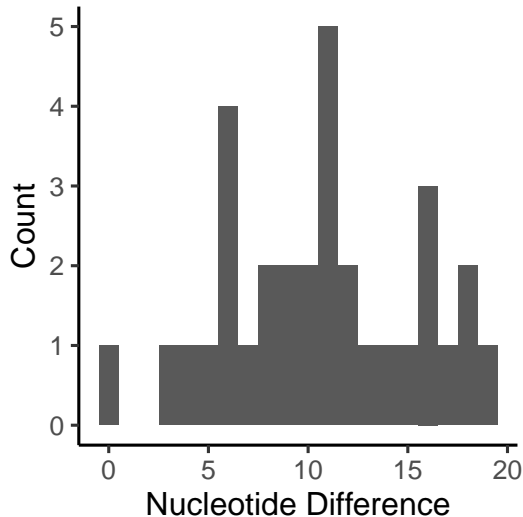
IGHV1-69-2*01

6 sequences assigned
No exact matches.



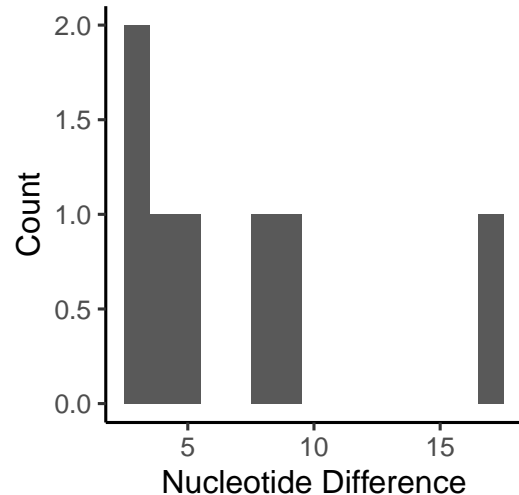
IGHV1-69*15_18

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



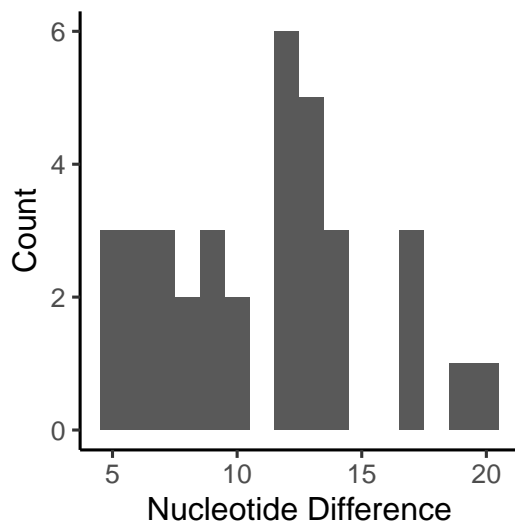
IGHV2-26*01

7 sequences assigned
No exact matches.



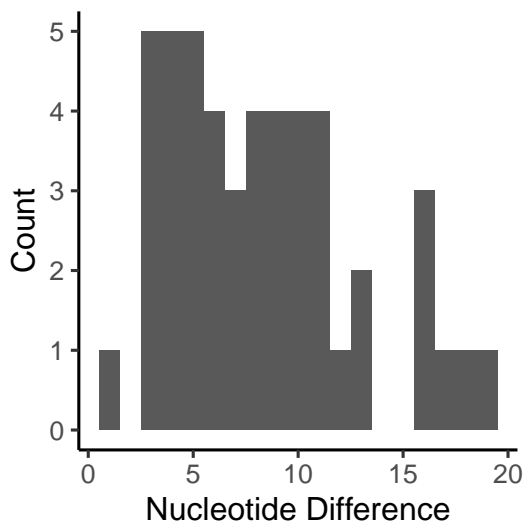
IGHV1-69*01_12_13

50 sequences assigned
No exact matches.



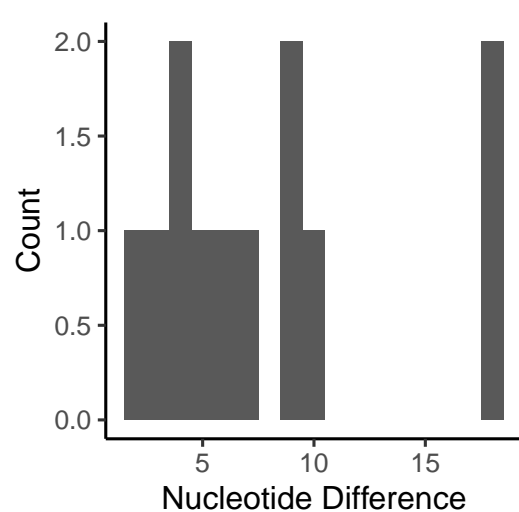
IGHV2-5*01

54 sequences assigned
No exact matches.



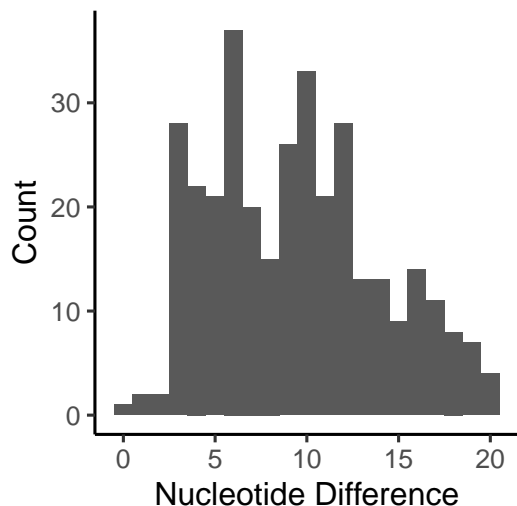
IGHV2-70*01

14 sequences assigned
No exact matches.



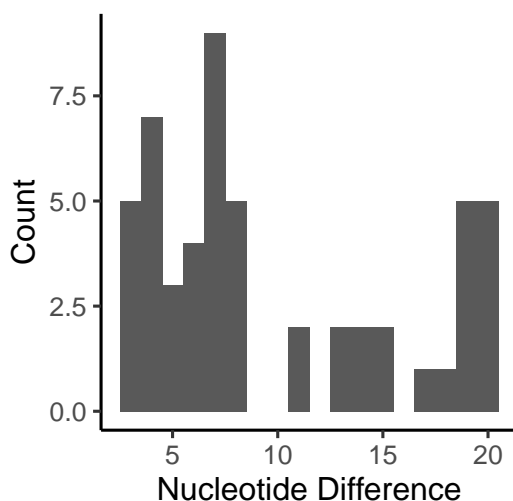
IGHV3-7*01

379 sequences assigned
1 (0.3%) exact matches, in which:
1 unique CDR3
1 unique J



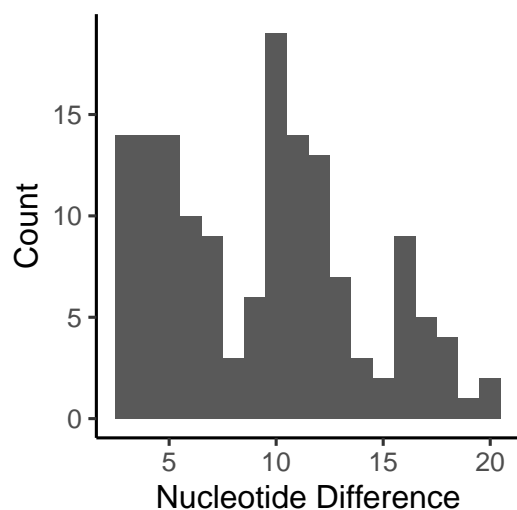
IGHV3-11*04

68 sequences assigned
No exact matches.



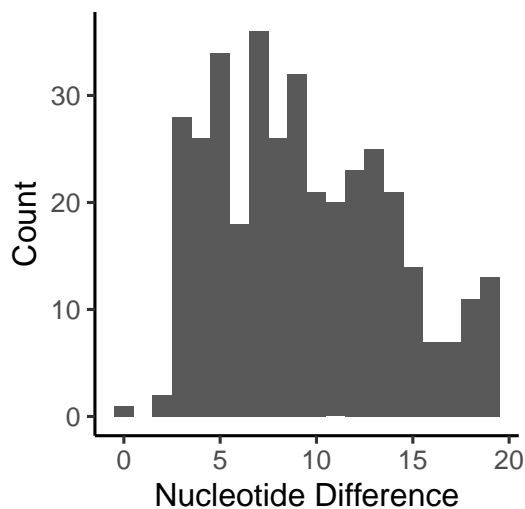
IGHV3-21*01_02

169 sequences assigned
No exact matches.



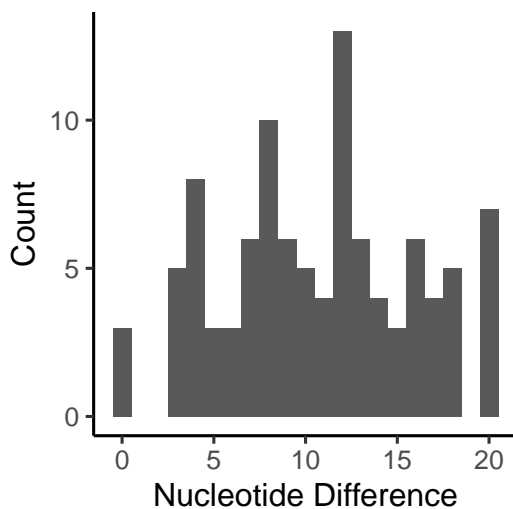
IGHV3-7*03

380 sequences assigned
1 (0.3%) exact matches, in which:
1 unique CDR3
0 unique J



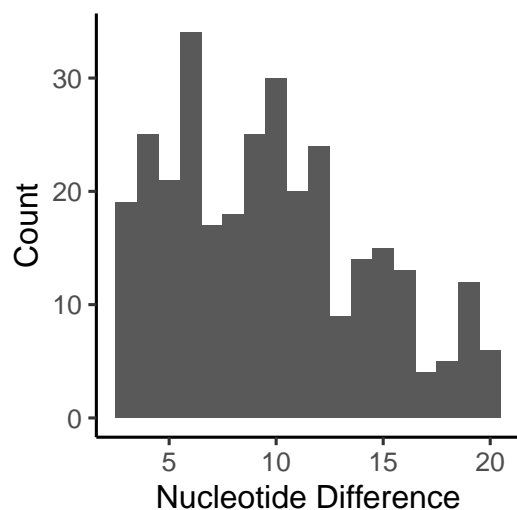
IGHV3-15*01_02

113 sequences assigned
3 (2.7%) exact matches, in which:
1 unique CDR3
1 unique J



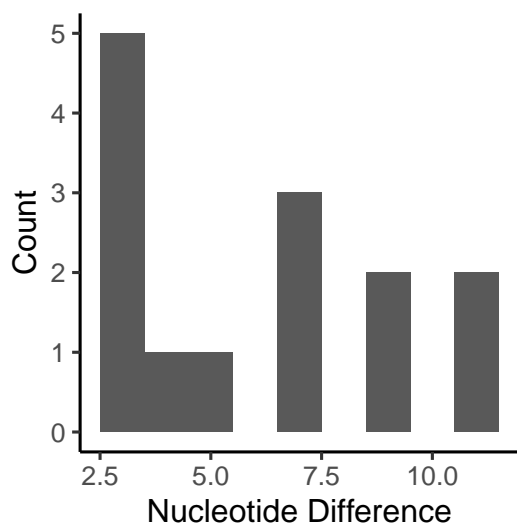
IGHV3-23*01_04

343 sequences assigned
No exact matches.



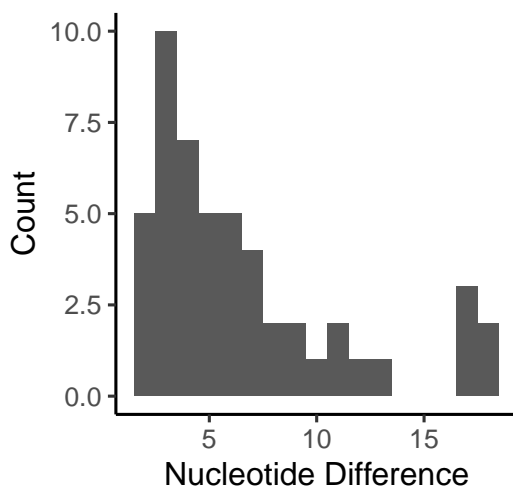
IGHV3-9*03

14 sequences assigned
No exact matches.



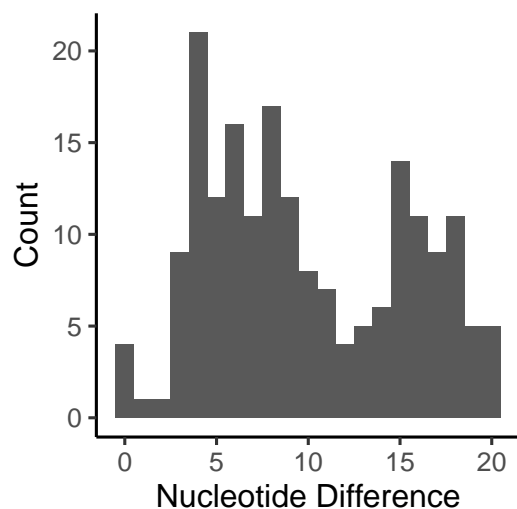
IGHV3-20*03_04

51 sequences assigned
No exact matches.



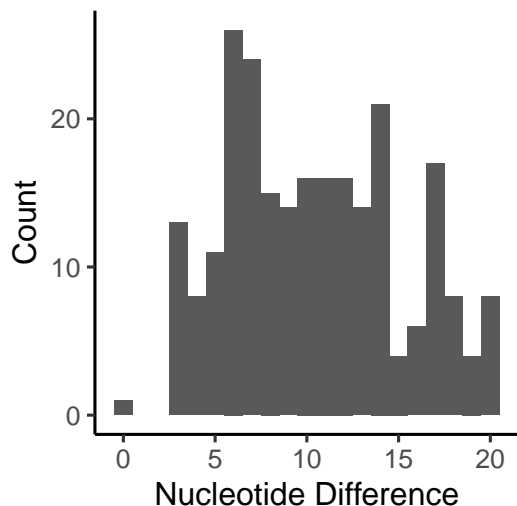
IGHV3-30-3*01

229 sequences assigned
4 (1.7%) exact matches, in which:
2 unique CDR3
2 unique J



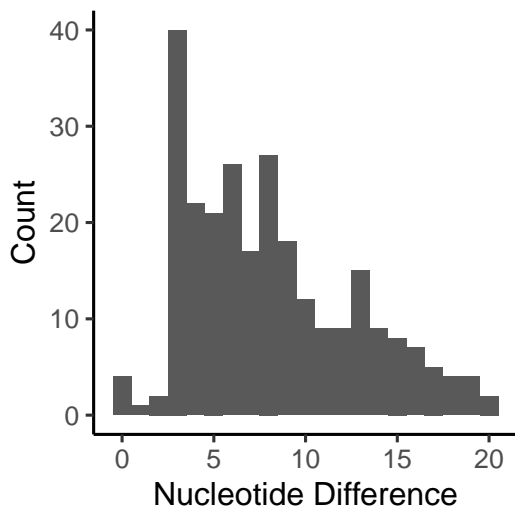
IGHV3-33*01

264 sequences assigned
1 (0.4%) exact matches, in which:
1 unique CDR3
1 unique J



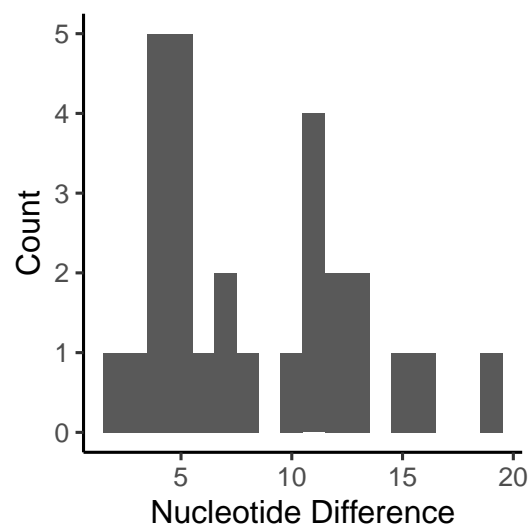
IGHV3-48*03

277 sequences assigned
4 (1.4%) exact matches, in which:
3 unique CDR3
2 unique J



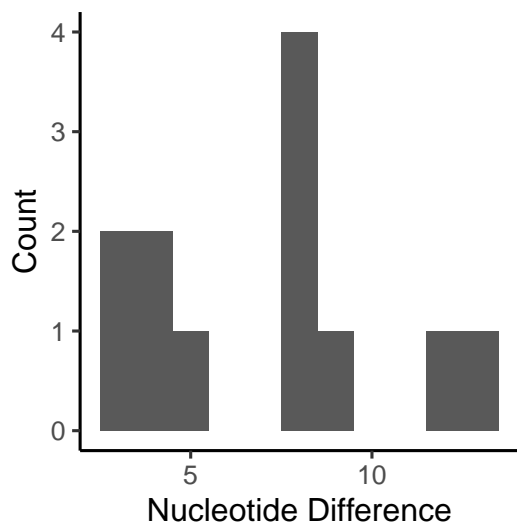
IGHV3-49*03_05

32 sequences assigned
No exact matches.



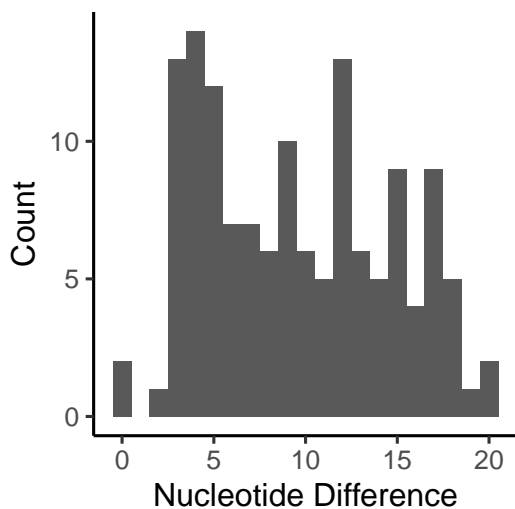
IGHV3-43*01

14 sequences assigned
No exact matches.



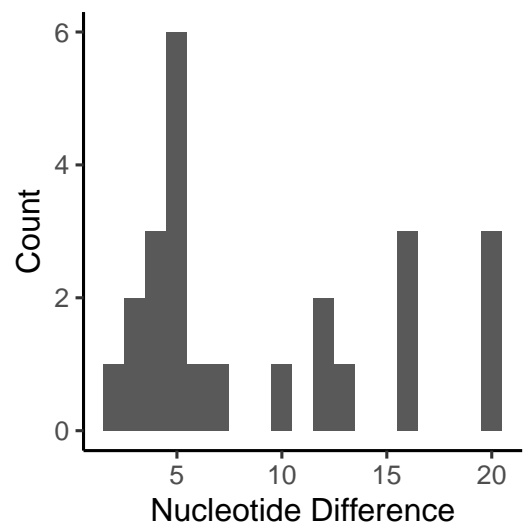
IGHV3-48*04

167 sequences assigned
2 (1.2%) exact matches, in which:
1 unique CDR3
1 unique J



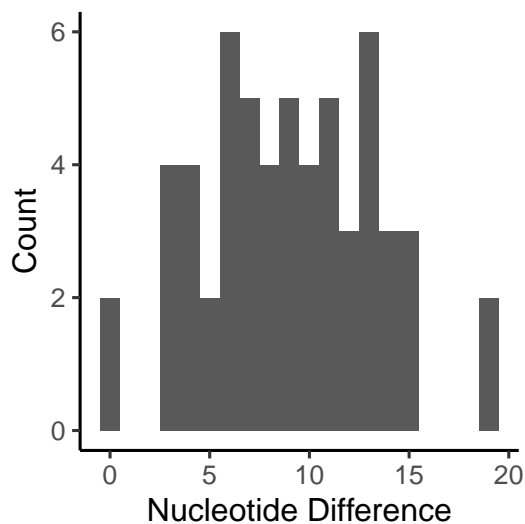
IGHV3-53*04

39 sequences assigned
No exact matches.



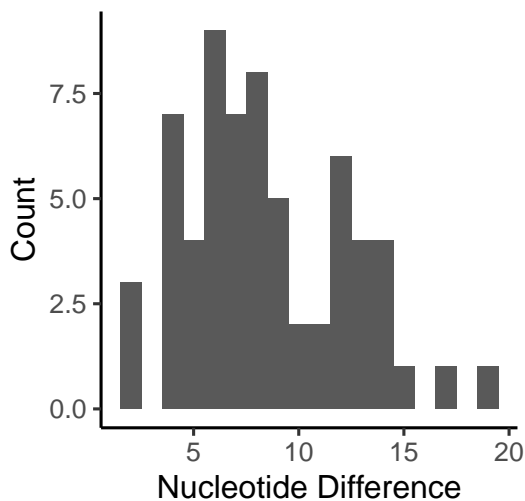
IGHV3-43*02

58 sequences assigned
2 (3.4%) exact matches, in which:
2 unique CDR3
1 unique J



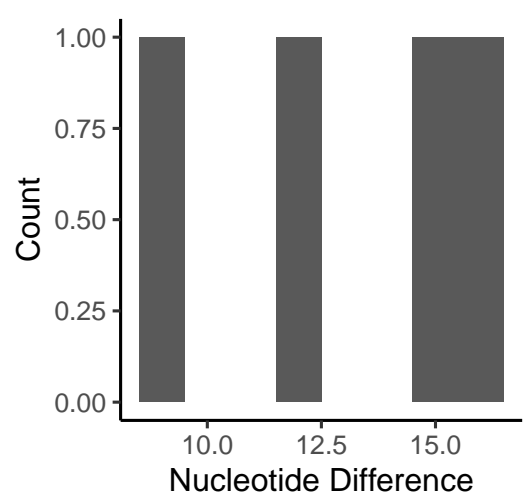
IGHV3-49*04

71 sequences assigned
No exact matches.



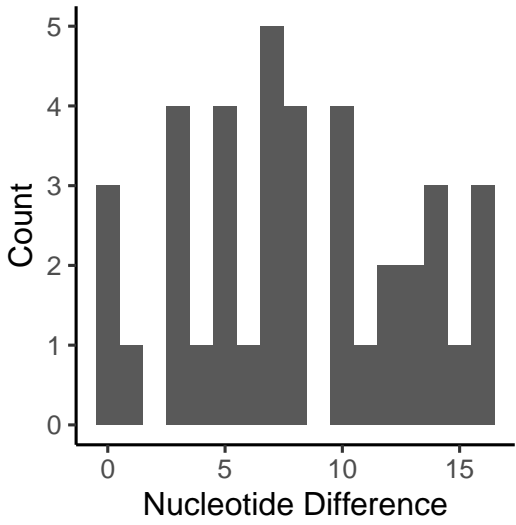
IGHV3-53*05

6 sequences assigned
No exact matches.



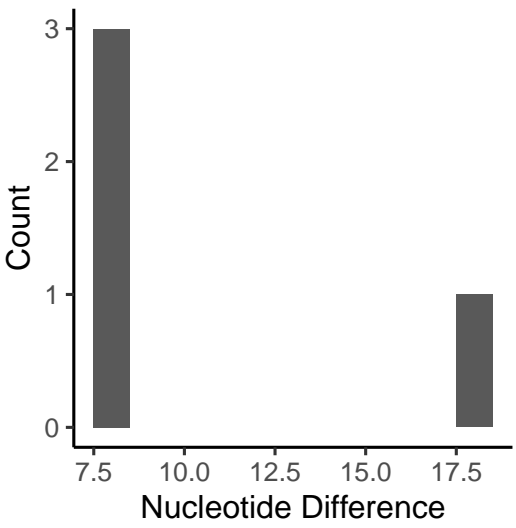
IGHV3-64*01

39 sequences assigned
3 (7.7%) exact matches, in which:
2 unique CDR3
2 unique J



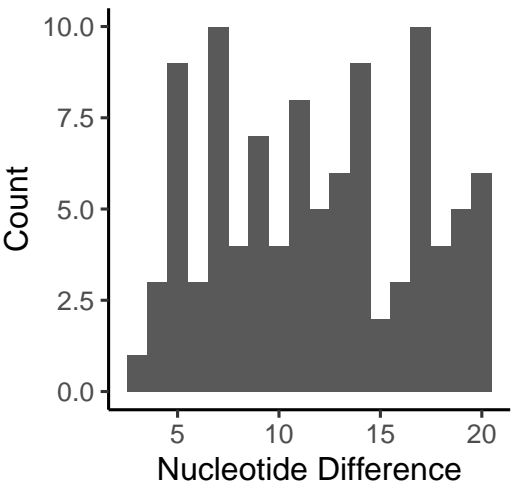
IGHV3-69-1*01

5 sequences assigned
No exact matches.



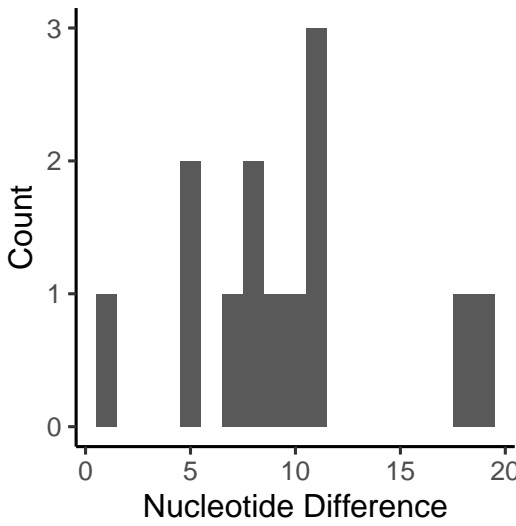
IGHV3-74*03

117 sequences assigned
No exact matches.



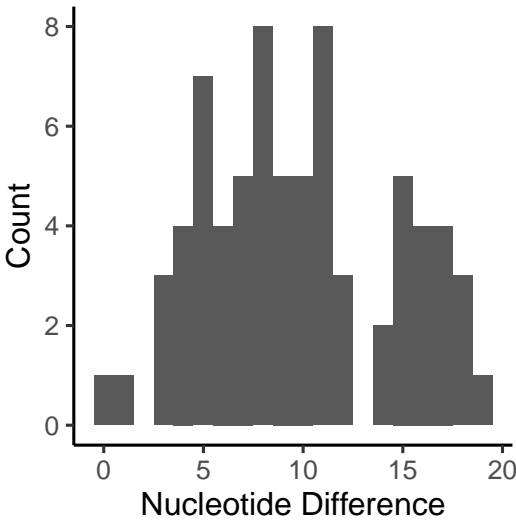
IGHV3-64*02_07

14 sequences assigned
No exact matches.



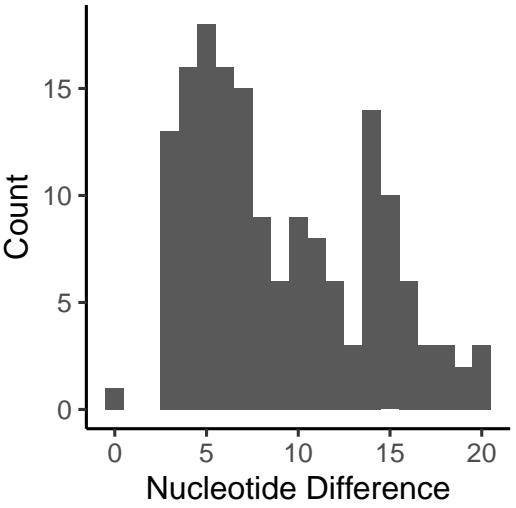
IGHV3-72*01

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



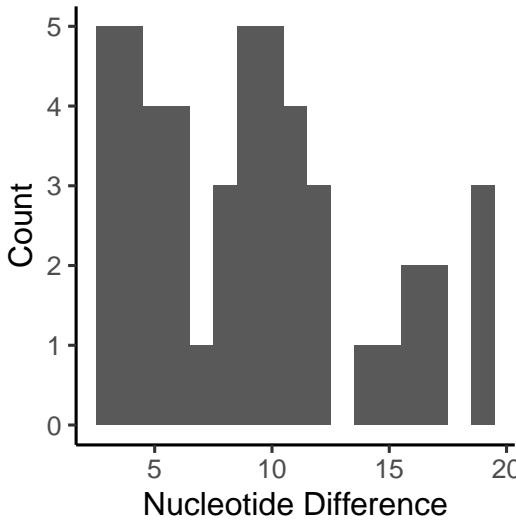
IGHV3-74*01_02

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



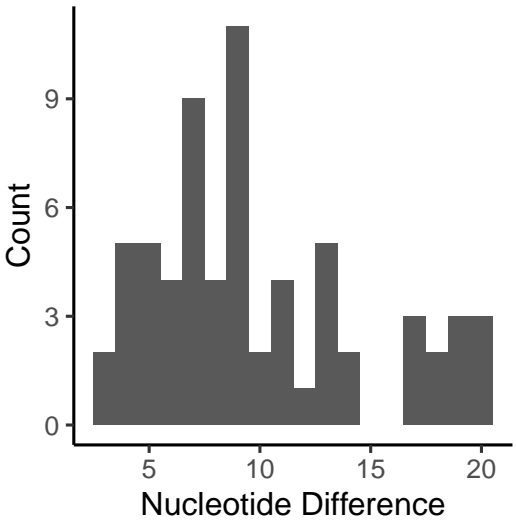
IGHV3-66*02

51 sequences assigned
No exact matches.



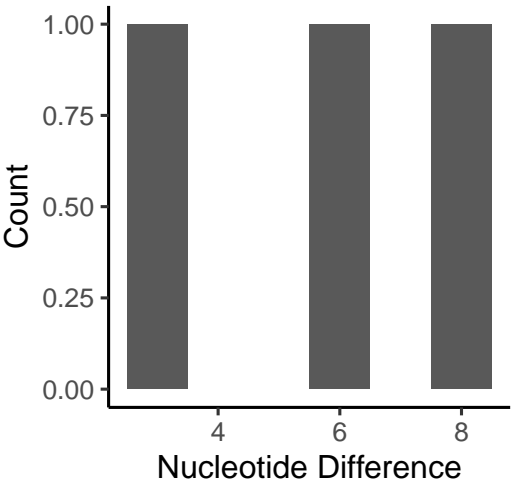
IGHV3-73*01_02

69 sequences assigned
No exact matches.



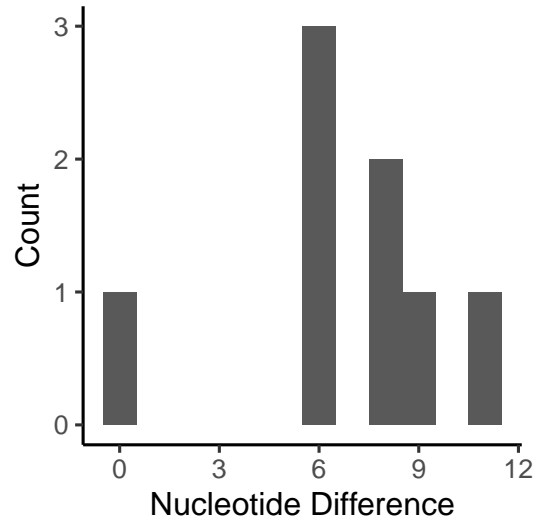
IGHV3-43D*03

4 sequences assigned
No exact matches.



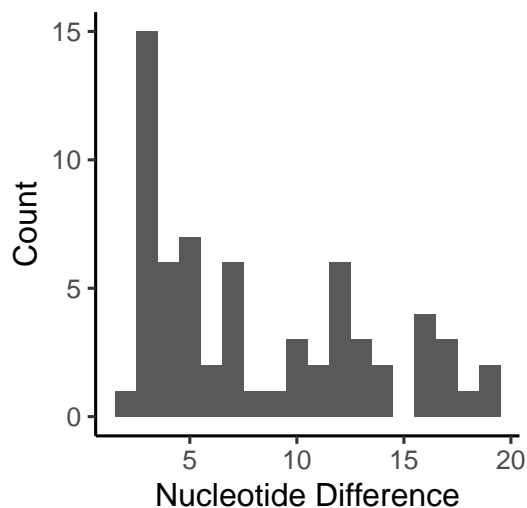
IGHV3-43D*04

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



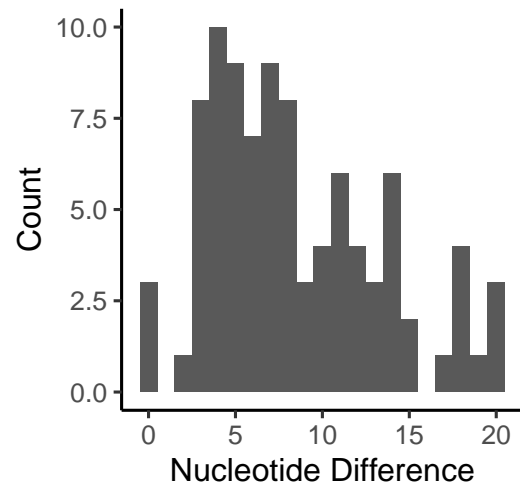
IGHV4-30-4*01

83 sequences assigned
No exact matches.



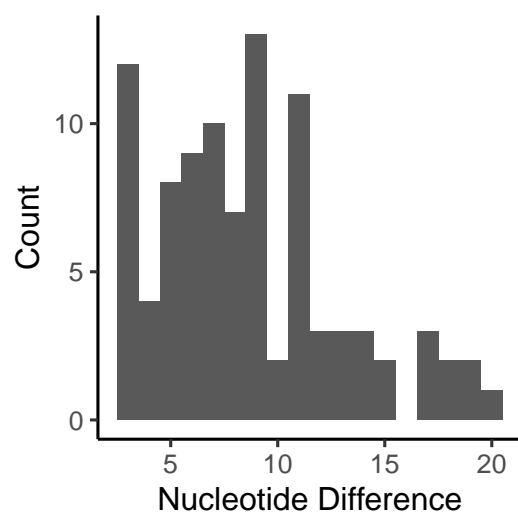
IGHV4-31*02

110 sequences assigned
3 (2.7%) exact matches, in which:
2 unique CDR3
1 unique J



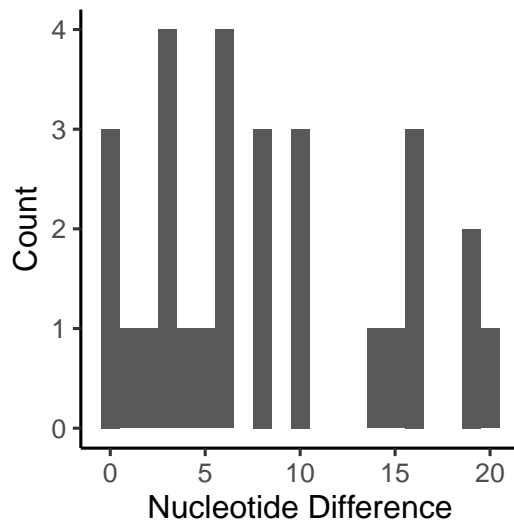
IGHV4-4*07

103 sequences assigned
No exact matches.



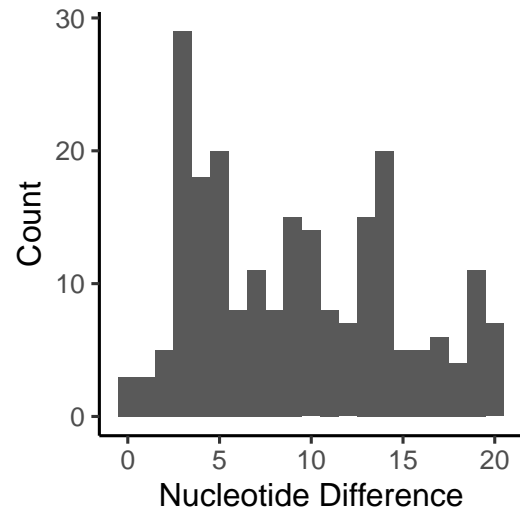
IGHV4-30-2*01

38 sequences assigned
3 (7.9%) exact matches, in which:
1 unique CDR3
1 unique J



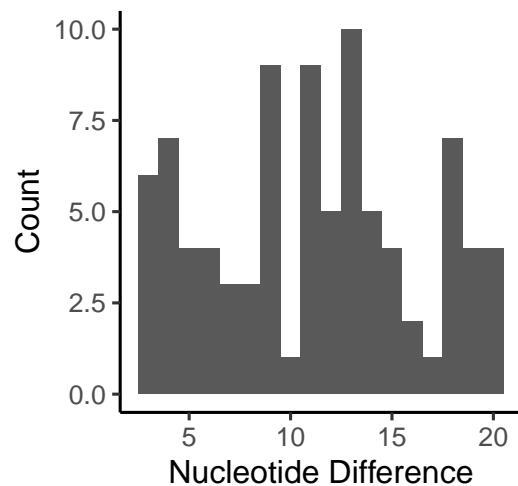
IGHV4-34*01_02

256 sequences assigned
3 (1.2%) exact matches, in which:
2 unique CDR3
2 unique J



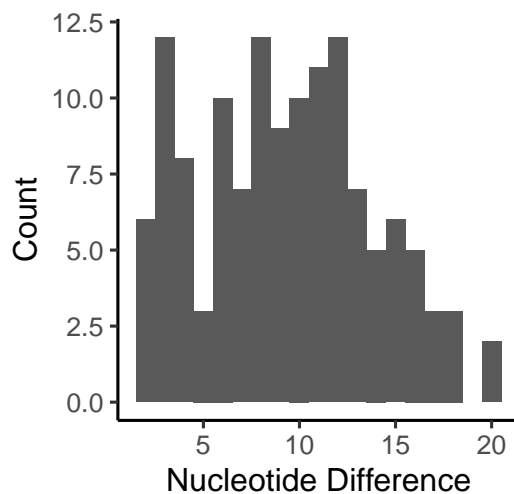
IGHV4-4*02_03

100 sequences assigned
No exact matches.



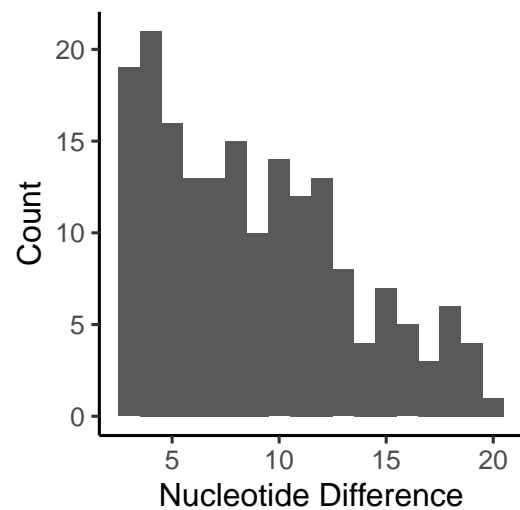
IGHV4-30-4*08

145 sequences assigned
No exact matches.



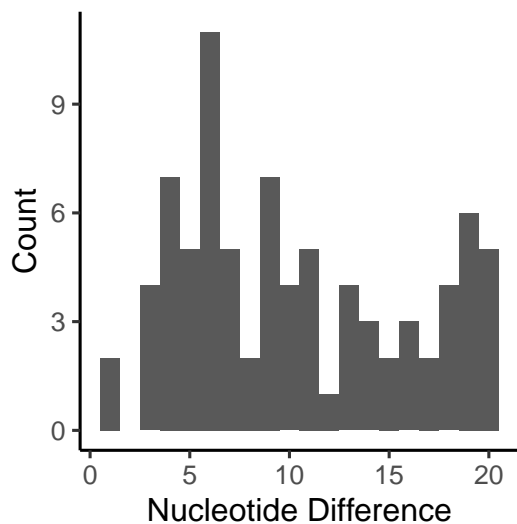
IGHV4-38-2*01

197 sequences assigned
No exact matches.



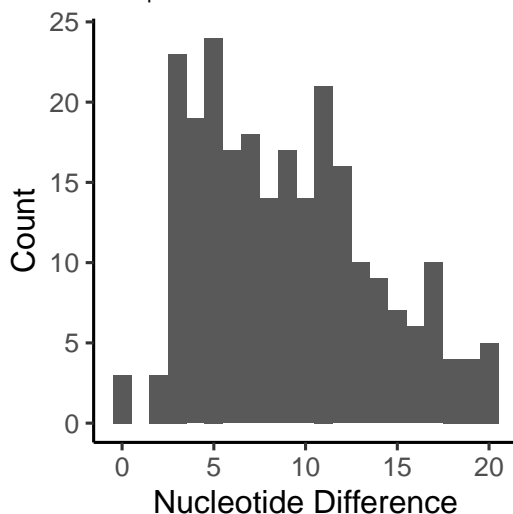
IGHV4-38-2*02

95 sequences assigned
No exact matches.



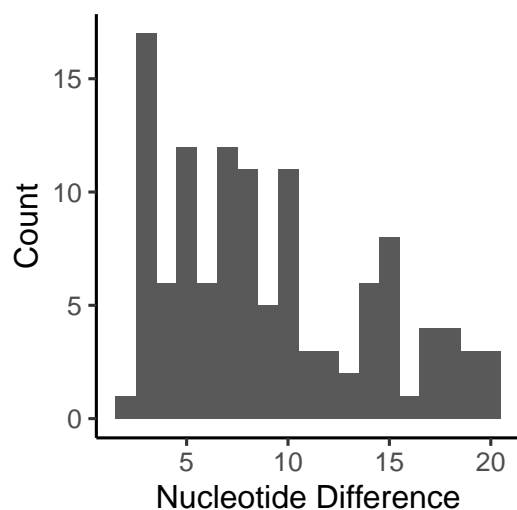
IGHV4-59*01_07

269 sequences assigned
3 (1.1%) exact matches, in which:
2 unique CDR3
2 unique J



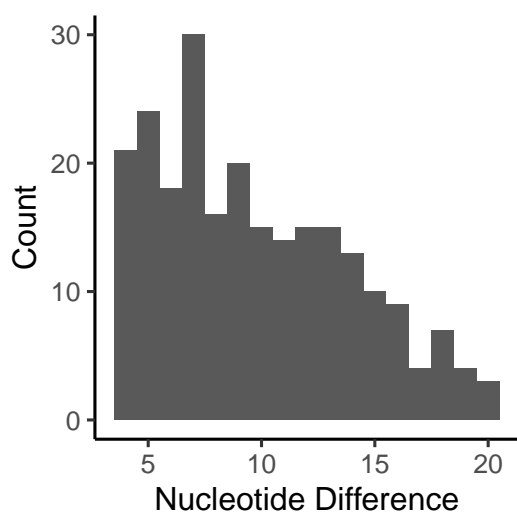
IGHV4-61*02

141 sequences assigned
No exact matches.



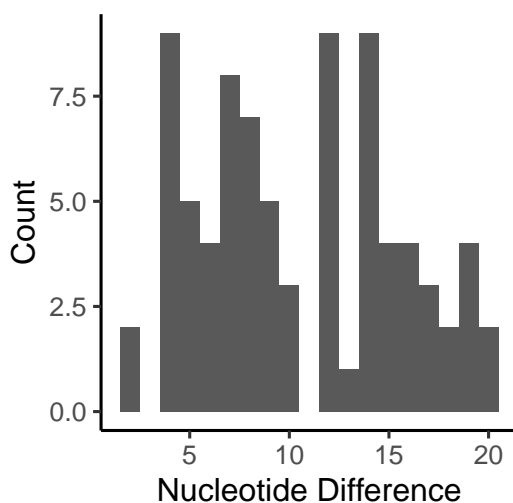
IGHV4-39*02

277 sequences assigned
No exact matches.



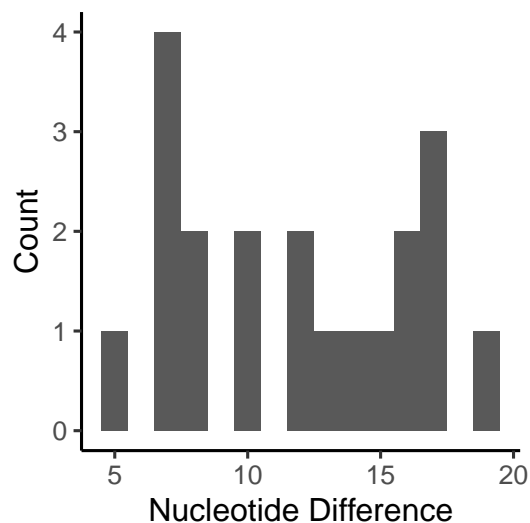
IGHV4-59*11

101 sequences assigned
No exact matches.



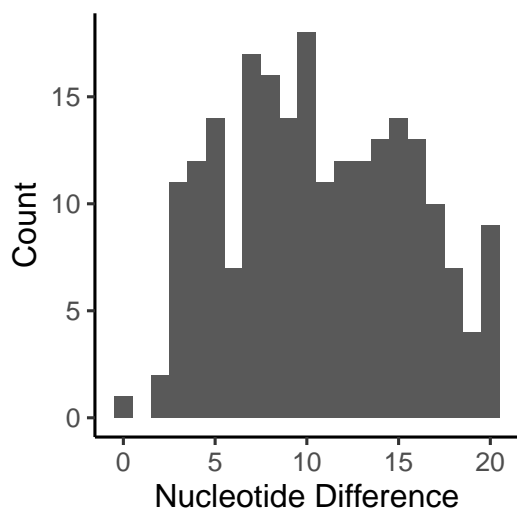
IGHV4-61*08

22 sequences assigned
No exact matches.



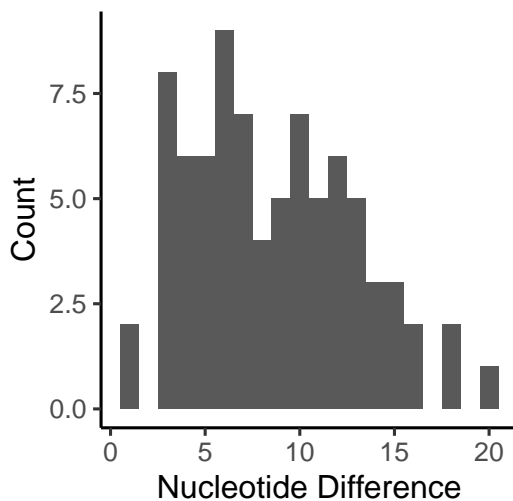
IGHV4-39*07

243 sequences assigned
1 (0.4%) exact matches, in which:
1 unique CDR3
1 unique J



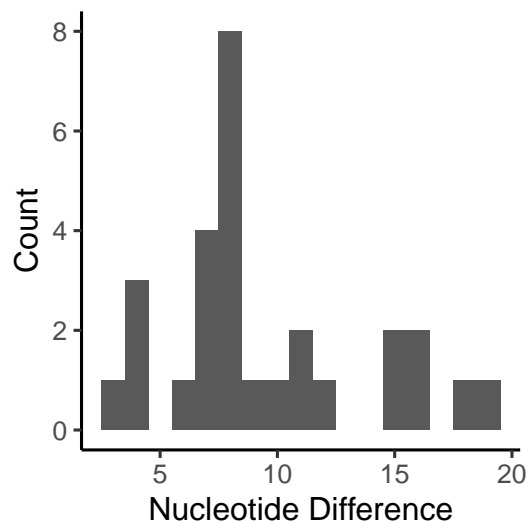
IGHV4-61*01

90 sequences assigned
No exact matches.



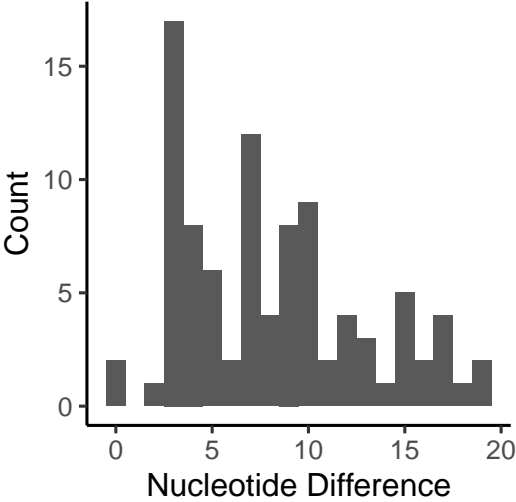
IGHV5-51*07

29 sequences assigned
No exact matches.



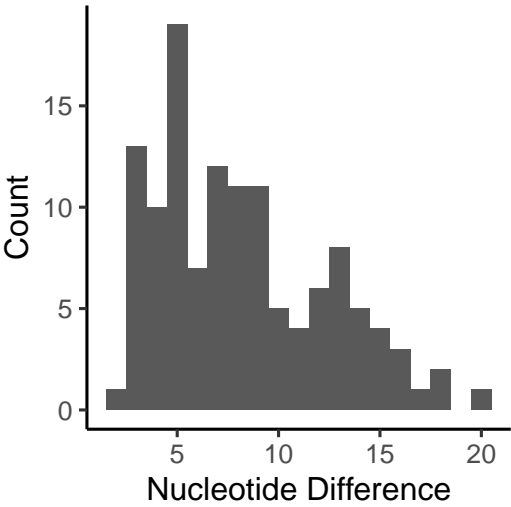
IGHV5-51*01_03

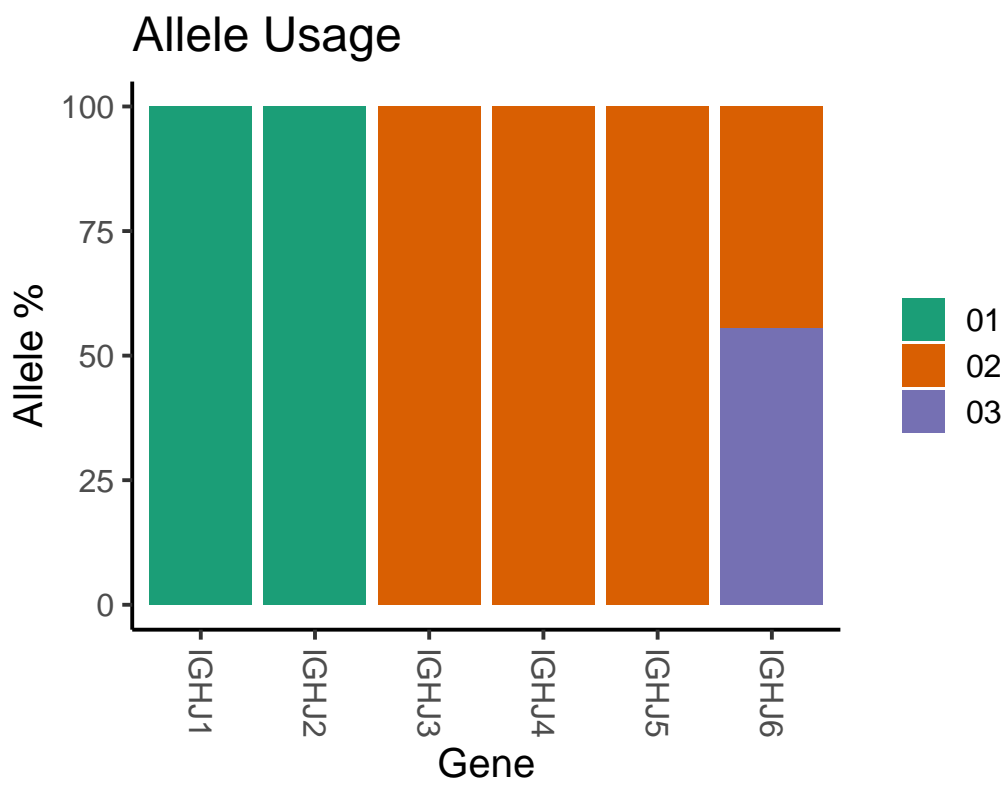
97 sequences assigned
2 (2.1%) exact matches, in which:
2 unique CDR3
1 unique J



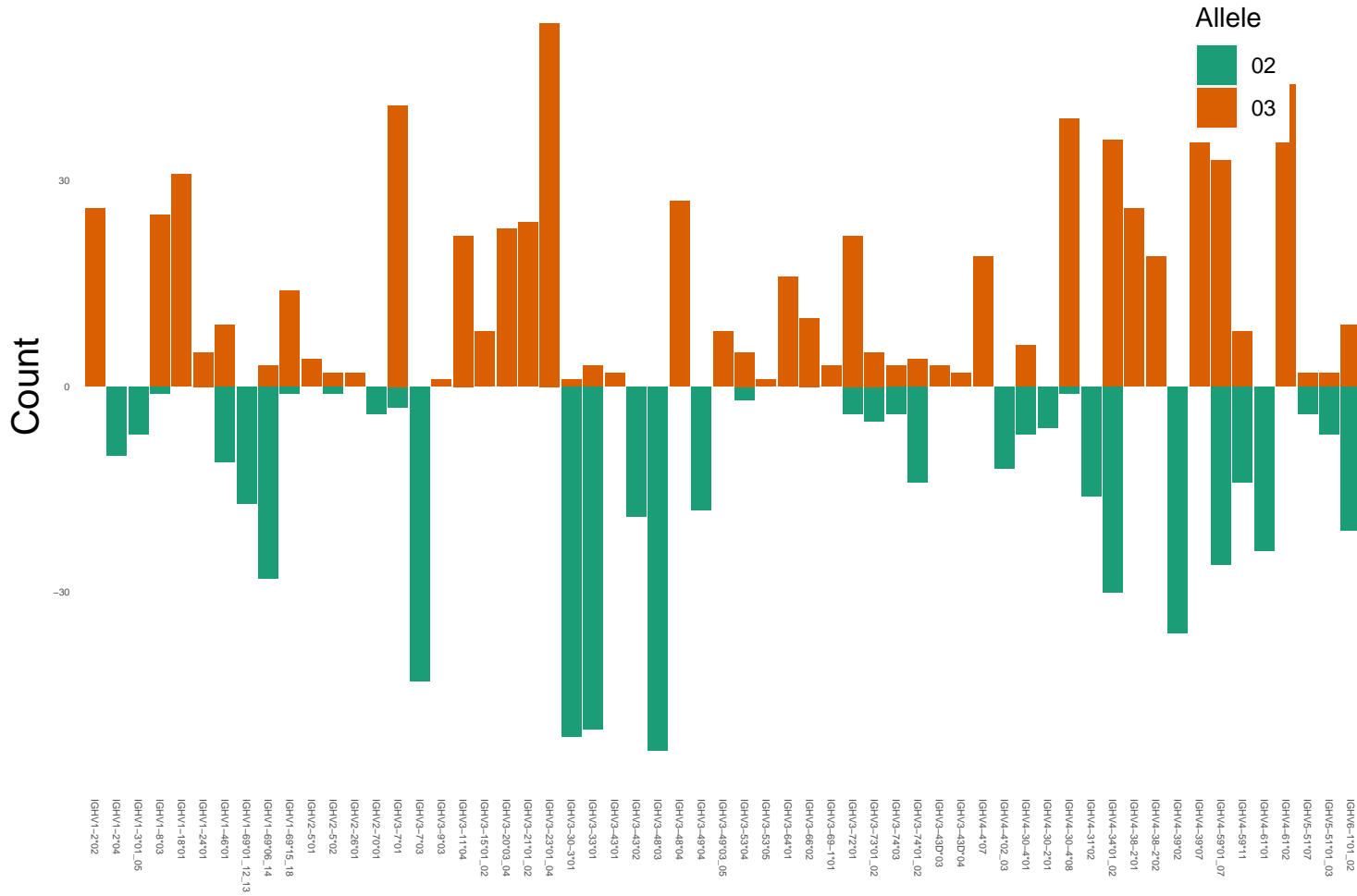
IGHV6-1*01_02

125 sequences assigned
No exact matches.





Sequence Count by IGHJ6 allele usage



Warning – no inferred sequences found.