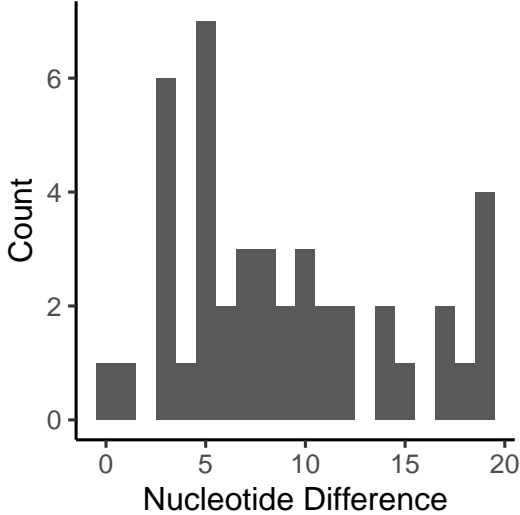


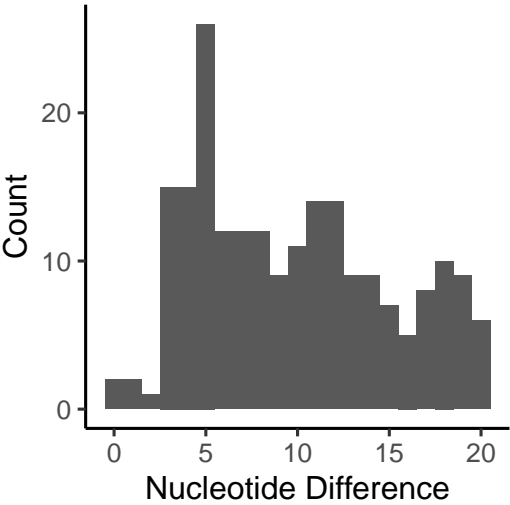
IGHV1-2*04

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



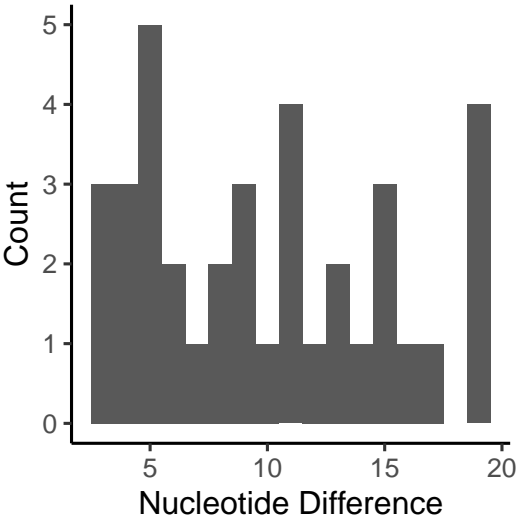
IGHV1-18*01

229 sequences assigned
2 (0.9%) exact matches, in which:
2 unique CDR3
1 unique J



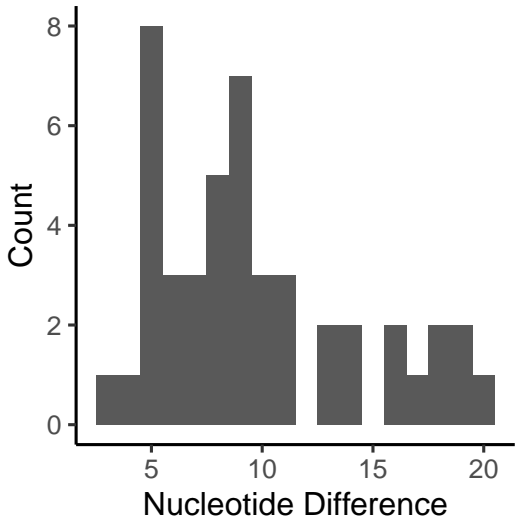
IGHV1-46*01

40 sequences assigned
No exact matches.



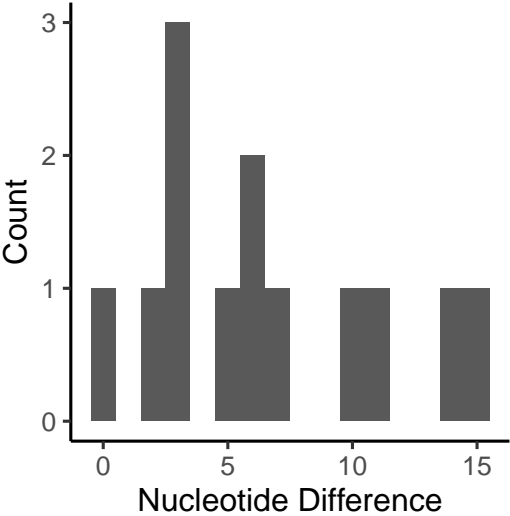
IGHV1-3*01_05

47 sequences assigned
No exact matches.



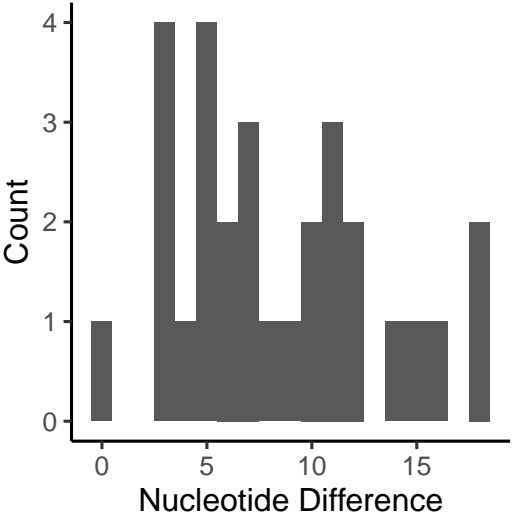
IGHV1-24*01

15 sequences assigned
1 (6.7%) exact matches, in which:
1 unique CDR3
1 unique J



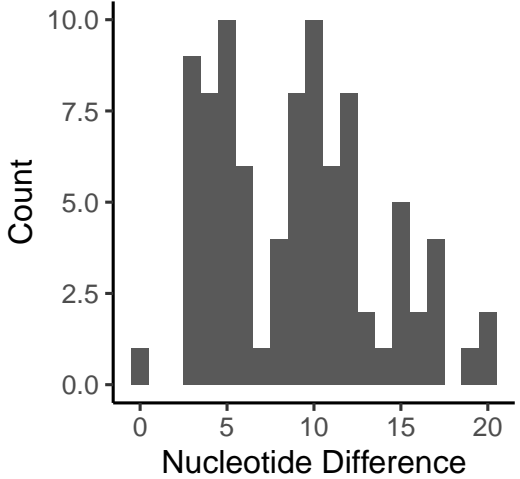
IGHV1-46*03

30 sequences assigned
1 (3.3%) exact matches, in which:
1 unique CDR3
1 unique J



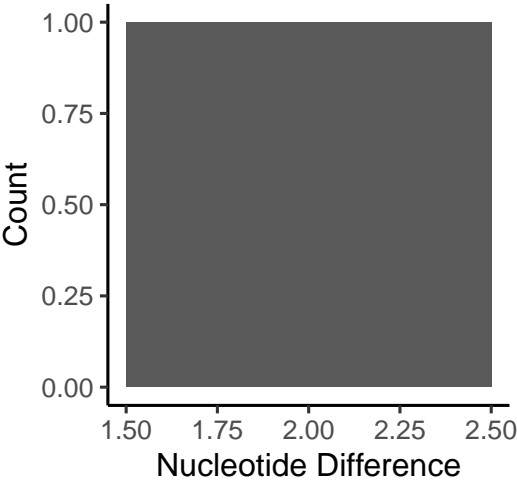
IGHV1-8*01

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



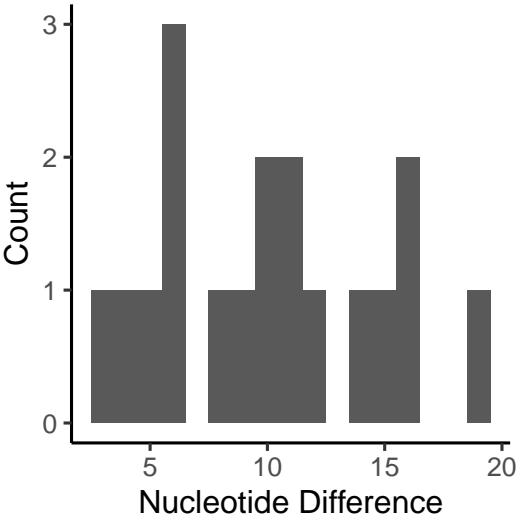
IGHV1-45*02

1 sequences assigned
No exact matches.



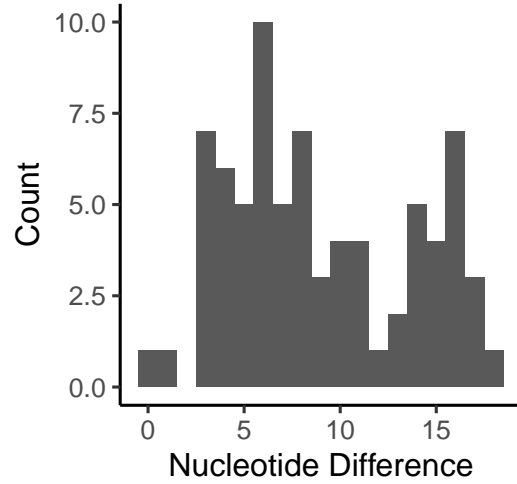
IGHV1-58*01_03

22 sequences assigned
No exact matches.



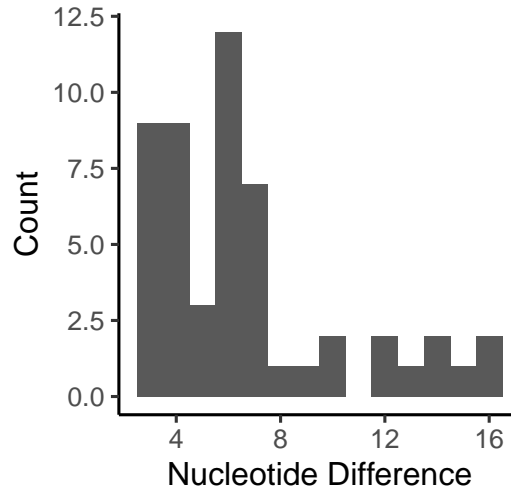
IGHV1-69*01_12_13

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



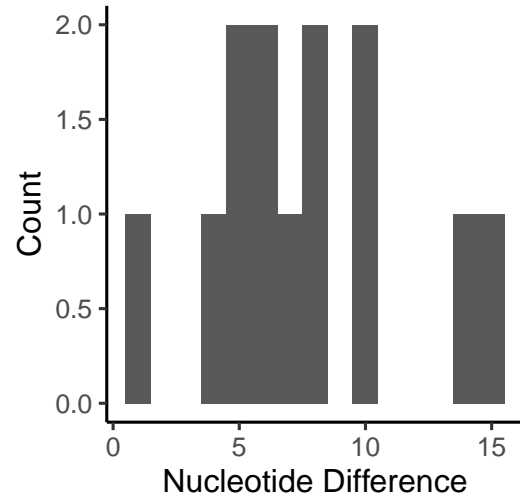
IGHV2-5*02

53 sequences assigned
No exact matches.



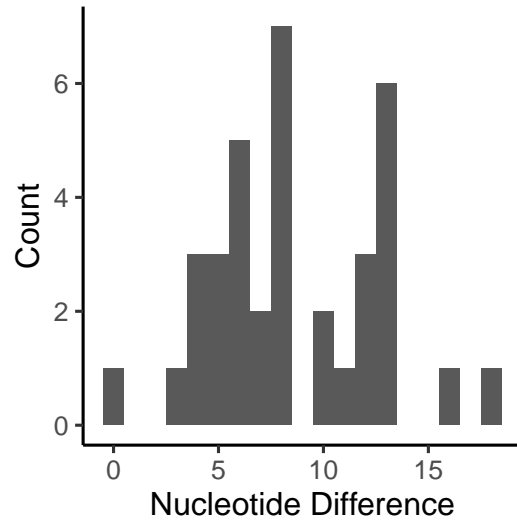
IGHV2-70*01

13 sequences assigned
No exact matches.



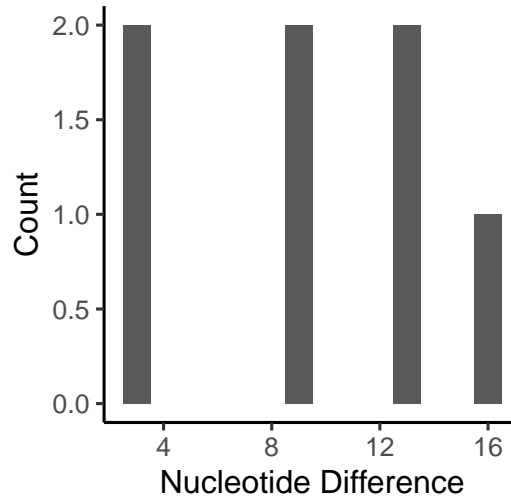
IGHV1-69*06_14

42 sequences assigned
1 (2.4%) exact matches, in which:
1 unique CDR3
1 unique J



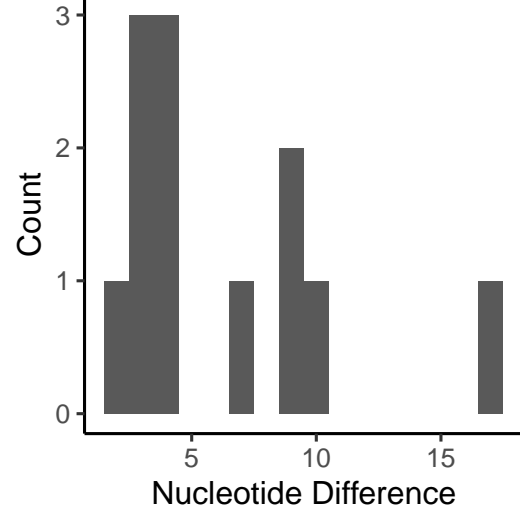
IGHV2-26*01

7 sequences assigned
No exact matches.



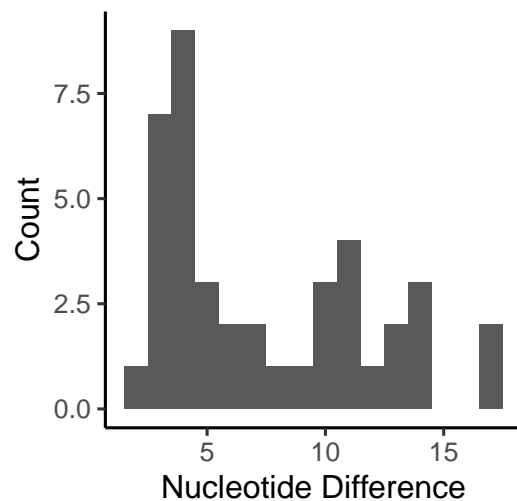
IGHV2-70*04

12 sequences assigned
No exact matches.



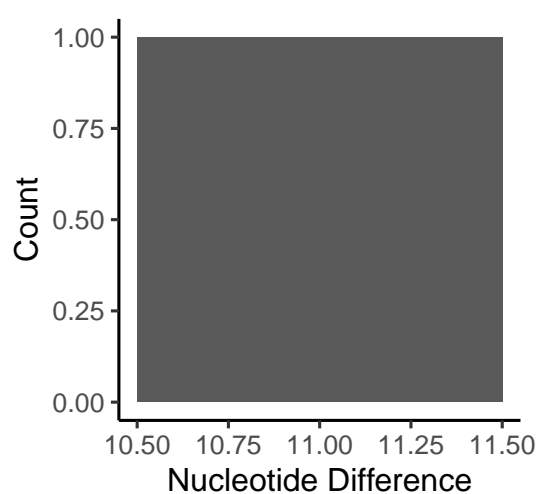
IGHV2-5*01

45 sequences assigned
No exact matches.



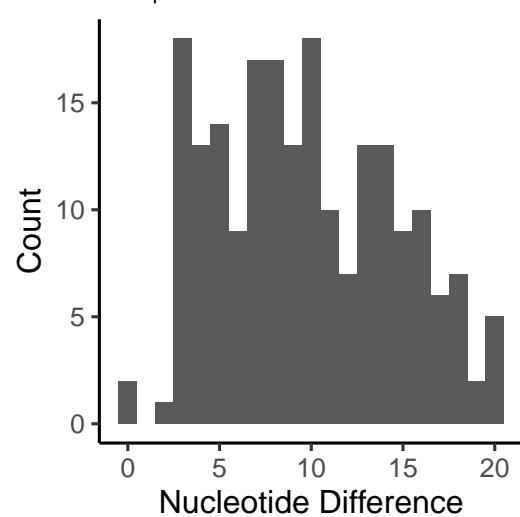
IGHV2-26*03

1 sequences assigned
No exact matches.



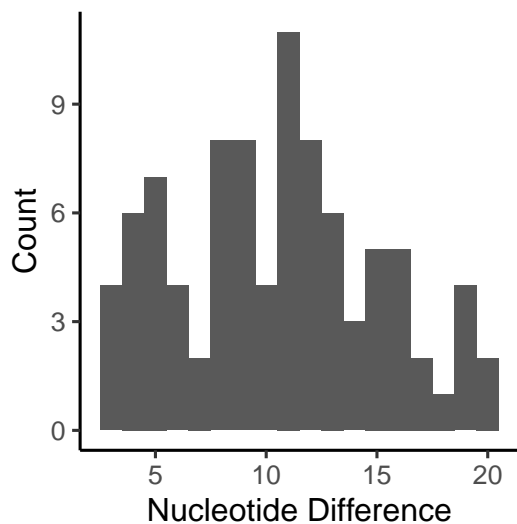
IGHV3-7*01

216 sequences assigned
2 (0.9%) exact matches, in which:
2 unique CDR3
2 unique J



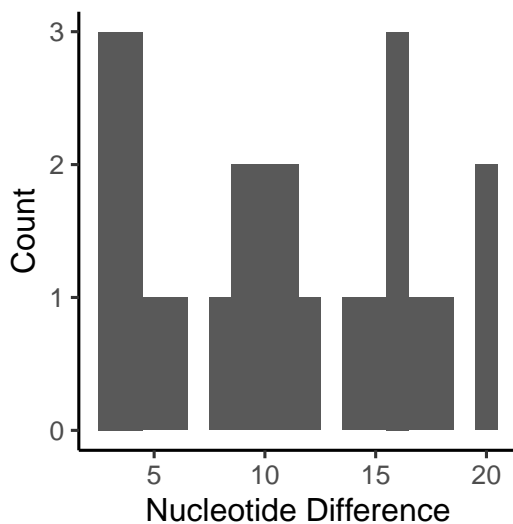
IGHV3-7*04

98 sequences assigned
No exact matches.



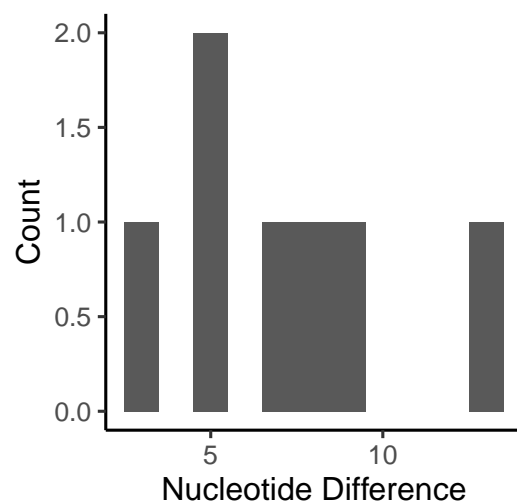
IGHV3-11*06

28 sequences assigned
No exact matches.



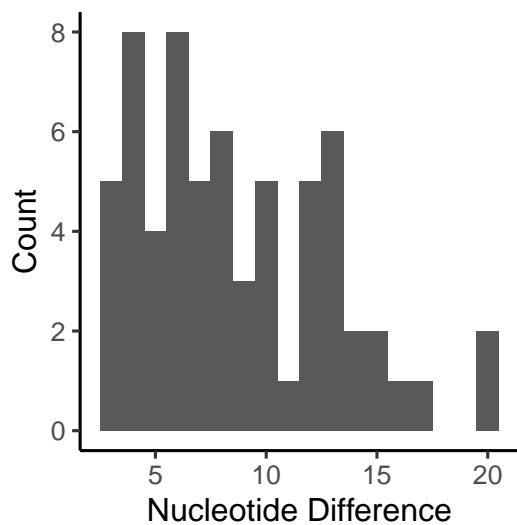
IGHV3-20*01_02

7 sequences assigned
No exact matches.



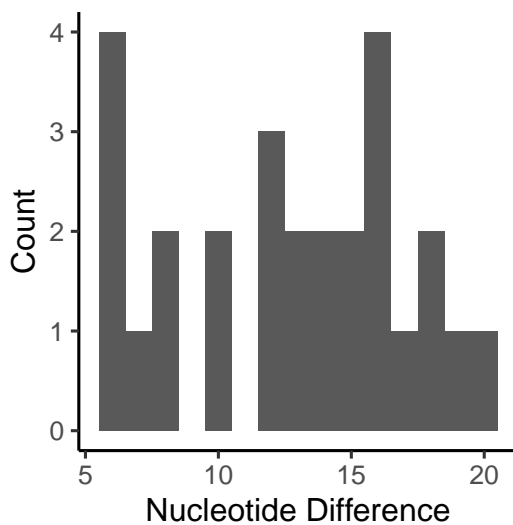
IGHV3-9*01

70 sequences assigned
No exact matches.



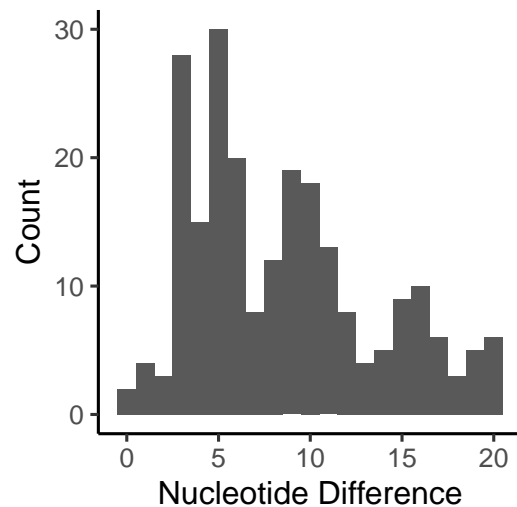
IGHV3-13*01

29 sequences assigned
No exact matches.



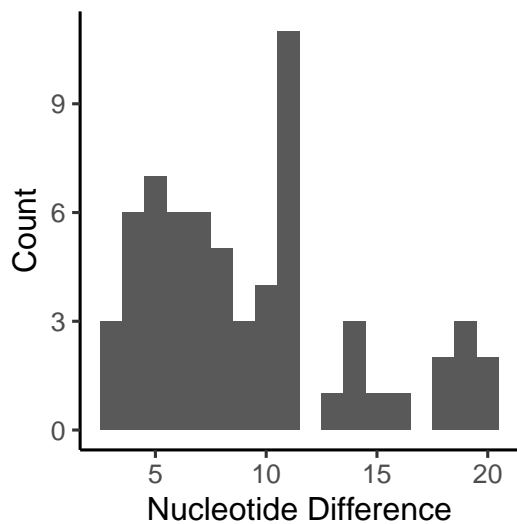
IGHV3-21*01_02

235 sequences assigned
2 (0.9%) exact matches, in which:
2 unique CDR3
1 unique J



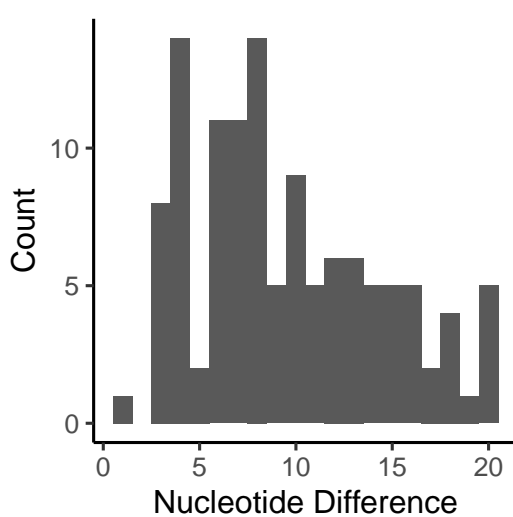
IGHV3-11*01

64 sequences assigned
No exact matches.



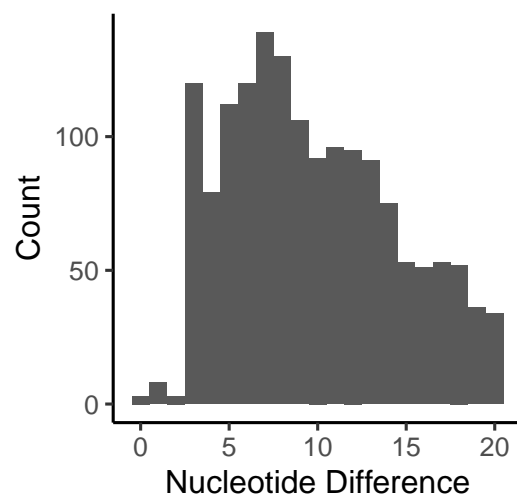
IGHV3-15*01_02

143 sequences assigned
No exact matches.



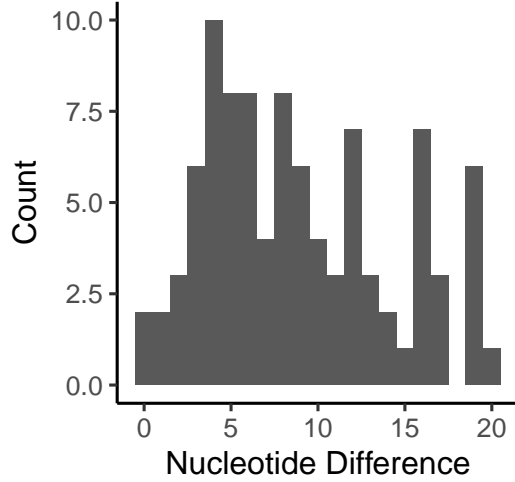
IGHV3-23*01_04

1741 sequences assigned
3 (0.2%) exact matches, in which:
3 unique CDR3
2 unique J



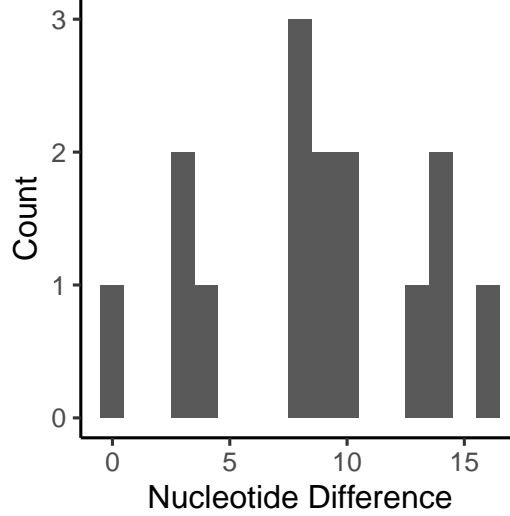
IGHV3-30*03

112 sequences assigned
2 (1.8%) exact matches, in which:
2 unique CDR3
1 unique J



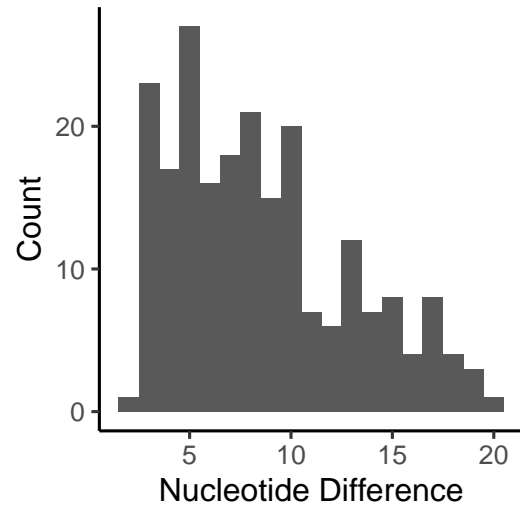
IGHV3-43*01

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



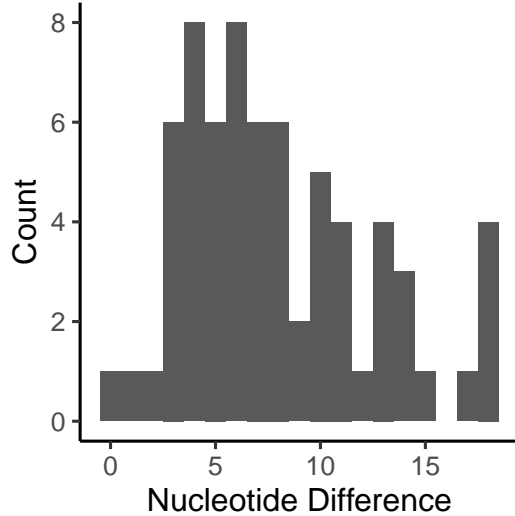
IGHV3-53*01_02

230 sequences assigned
No exact matches.



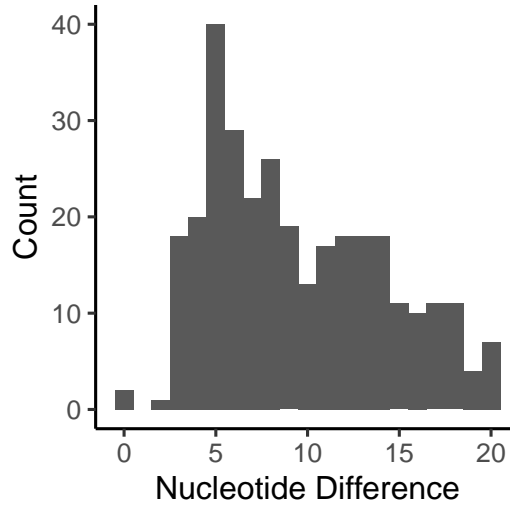
IGHV3-30*18

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



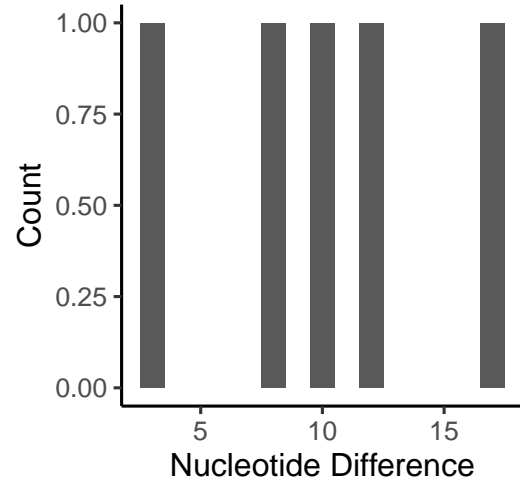
IGHV3-48*02

344 sequences assigned
2 (0.6%) exact matches, in which:
2 unique CDR3
1 unique J



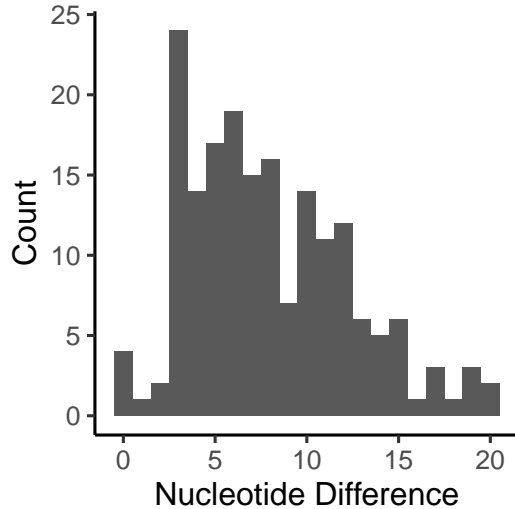
IGHV3-64*02_07

5 sequences assigned
No exact matches.



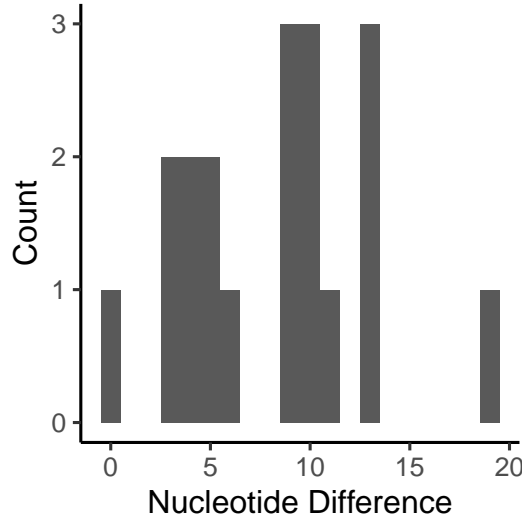
IGHV3-33*01

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



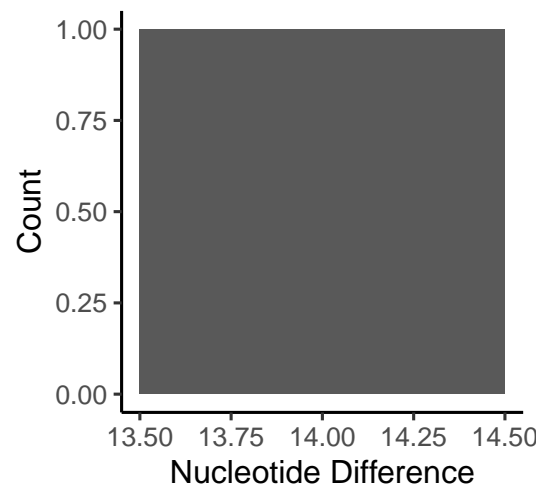
IGHV3-49*03_05

21 sequences assigned
1 (4.8%) exact matches, in which:
1 unique CDR3
1 unique J



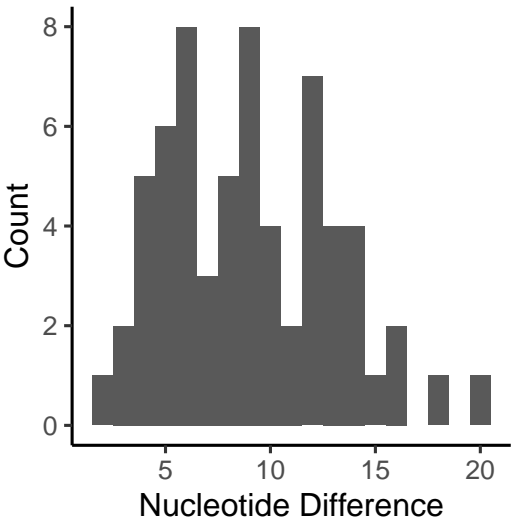
IGHV3-69-1*01

2 sequences assigned
No exact matches.



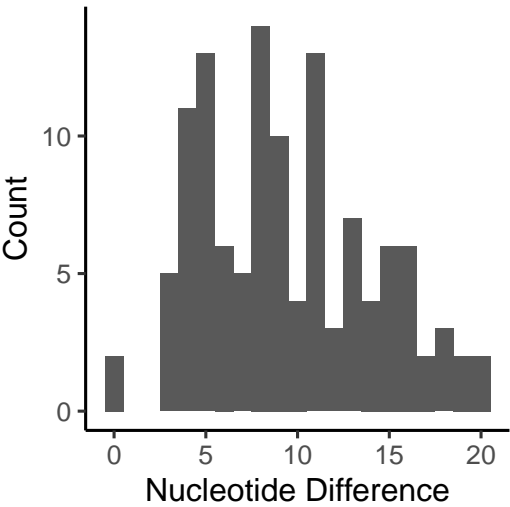
IGHV3-72*01

69 sequences assigned
No exact matches.



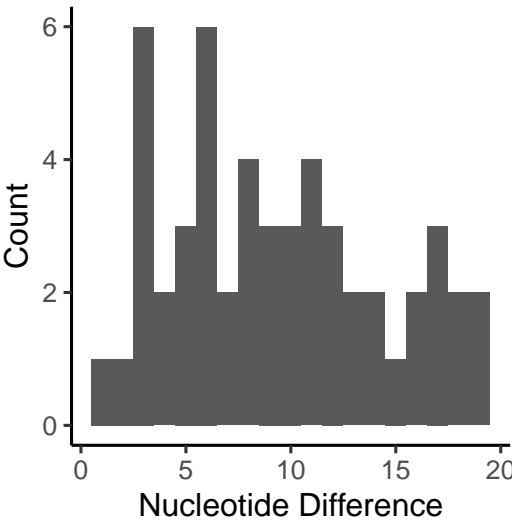
IGHV3-74*01_02

124 sequences assigned
2 (1.6%) exact matches, in which:
2 unique CDR3
2 unique J



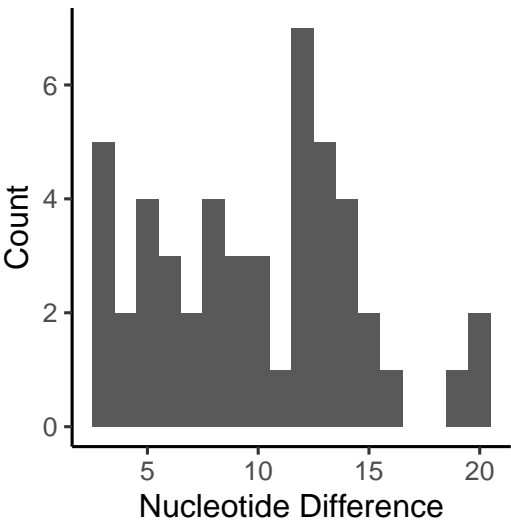
IGHV4-4*02_03

59 sequences assigned
No exact matches.



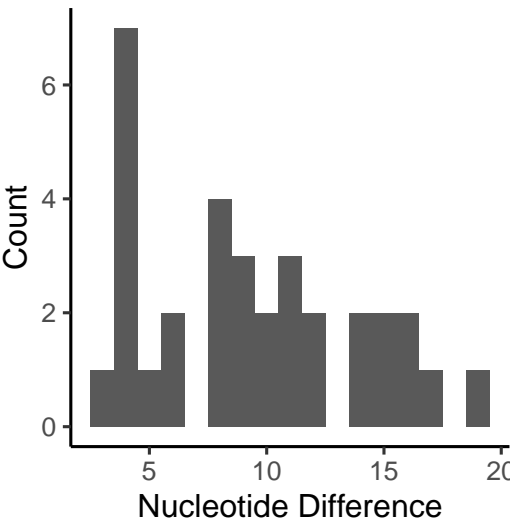
IGHV3-73*01_02

59 sequences assigned
No exact matches.



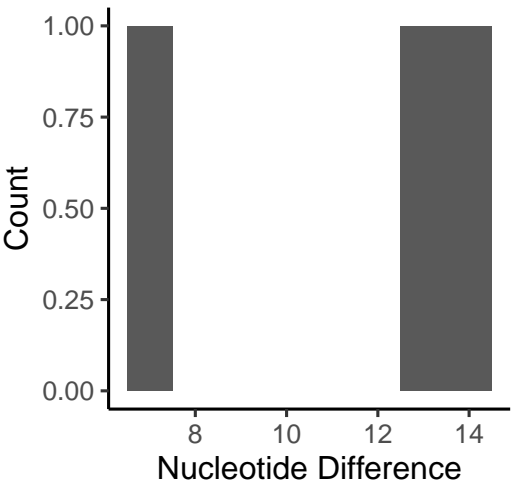
IGHV3-64D*06

38 sequences assigned
No exact matches.



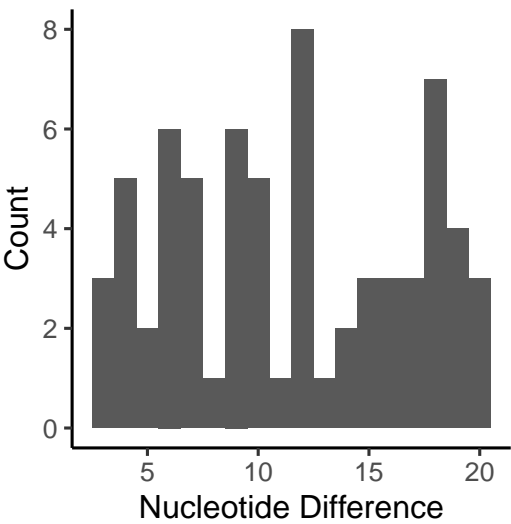
IGHV4-28*01_07

3 sequences assigned
No exact matches.



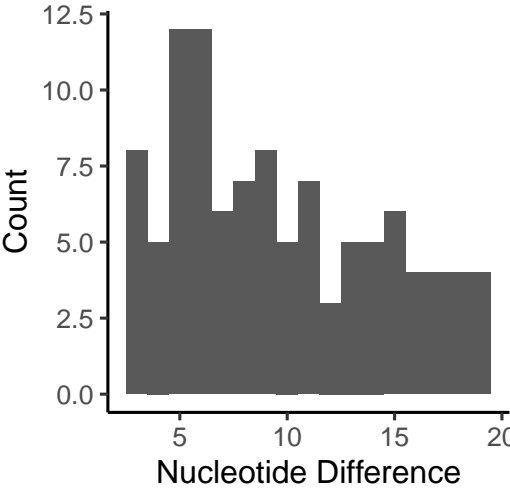
IGHV3-74*03

76 sequences assigned
No exact matches.



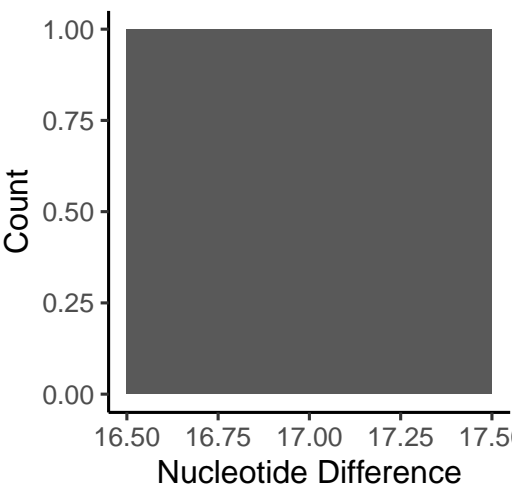
IGHV4-4*07

109 sequences assigned
No exact matches.



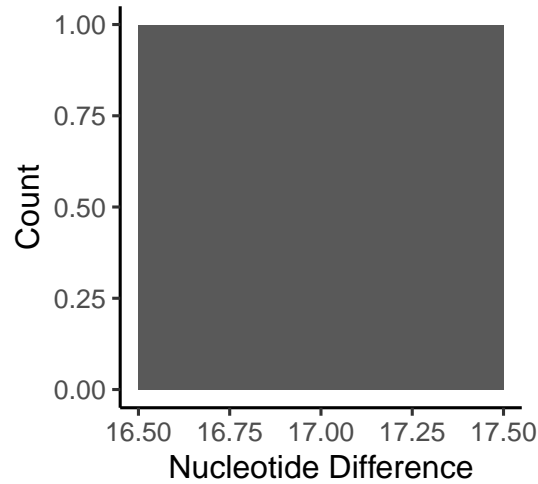
IGHV4-30-4*01

2 sequences assigned
No exact matches.



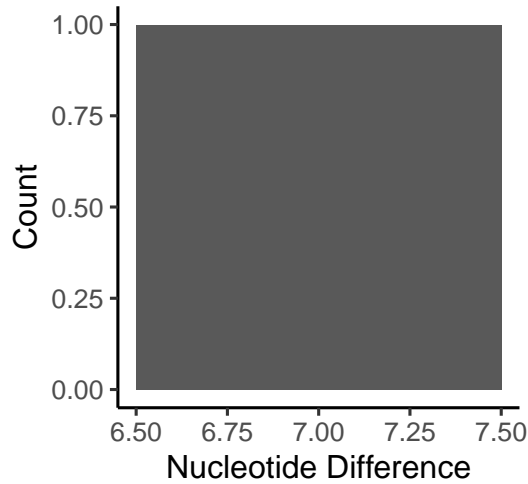
IGHV4-30-2*01

1 sequences assigned
No exact matches.



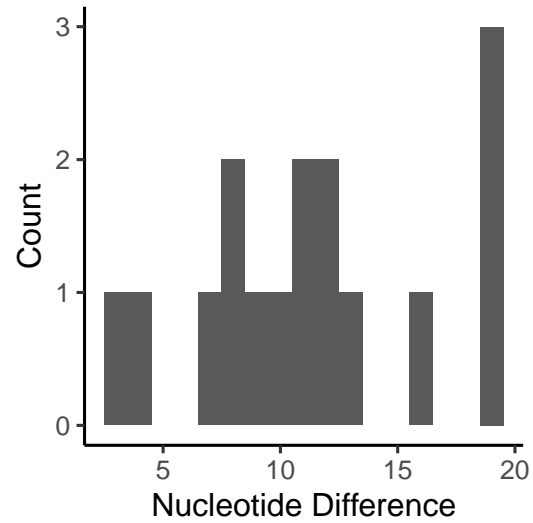
IGHV4-38-2*02

1 sequences assigned
No exact matches.



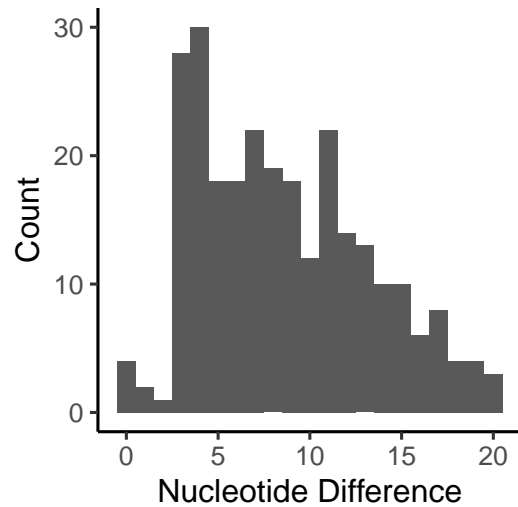
IGHV4-59*02

23 sequences assigned
No exact matches.



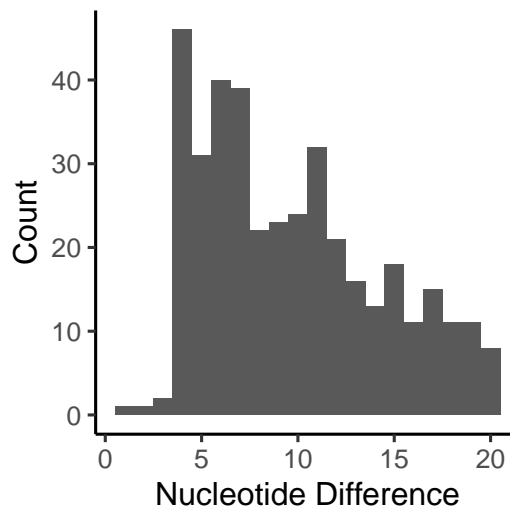
IGHV4-31*02

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



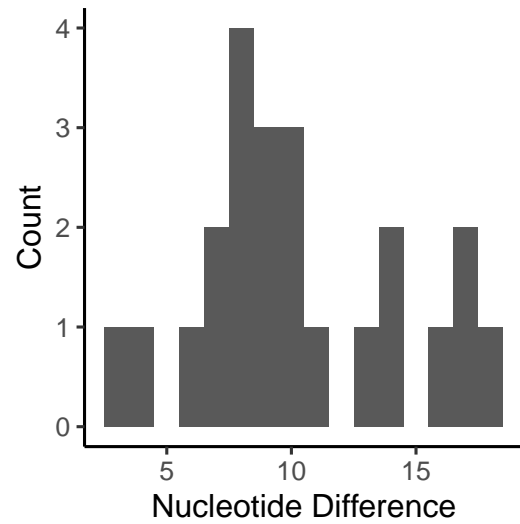
IGHV4-39*02

414 sequences assigned
No exact matches.



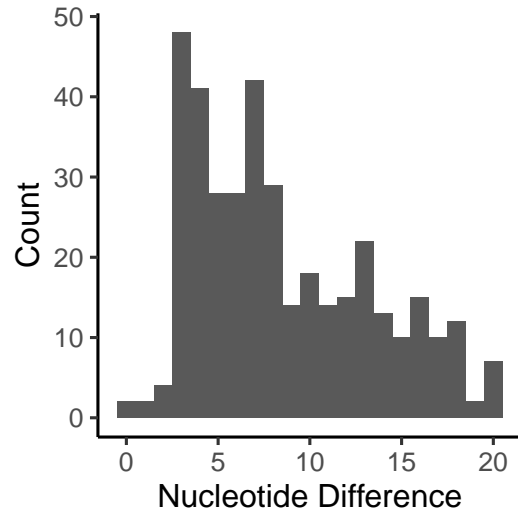
IGHV4-59*11

28 sequences assigned
No exact matches.



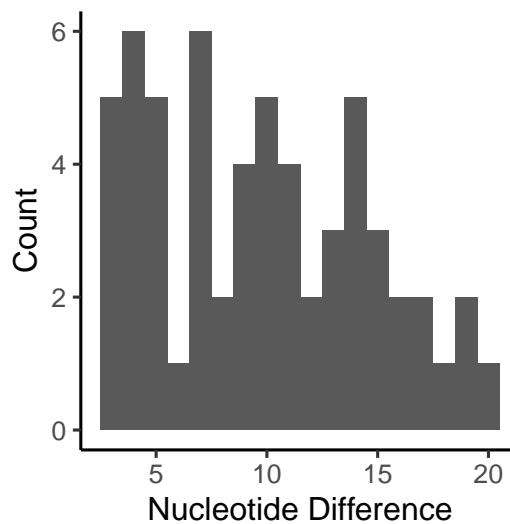
IGHV4-34*01_02

397 sequences assigned
2 (0.5%) exact matches, in which:
1 unique CDR3
1 unique J



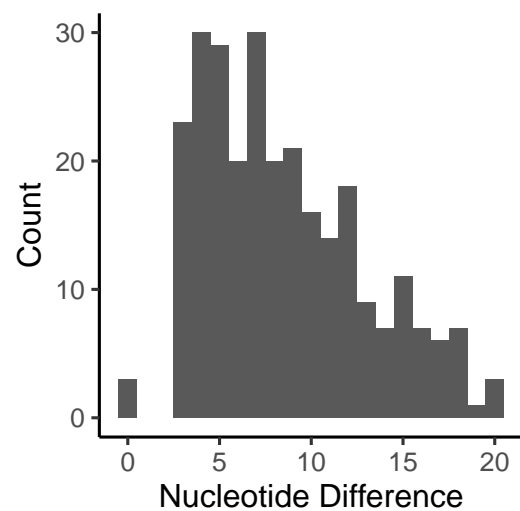
IGHV4-39*01_05

63 sequences assigned
No exact matches.



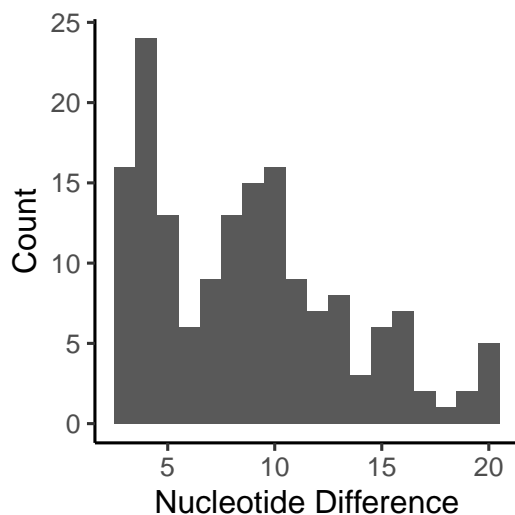
IGHV4-59*01_07

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



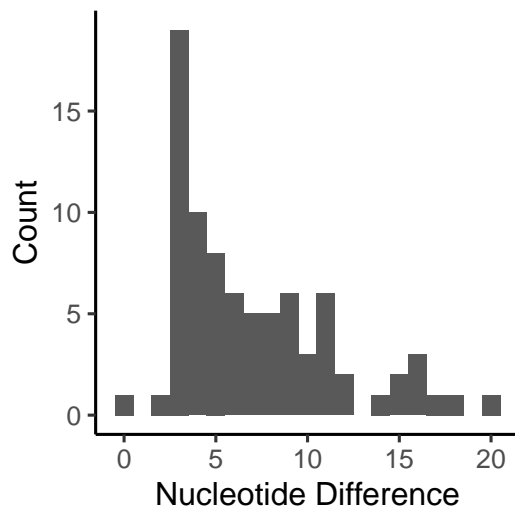
IGHV4-61*01

178 sequences assigned
No exact matches.



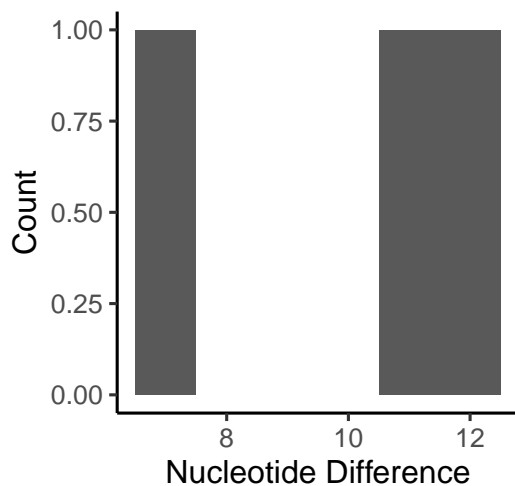
IGHV5-51*01_03

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



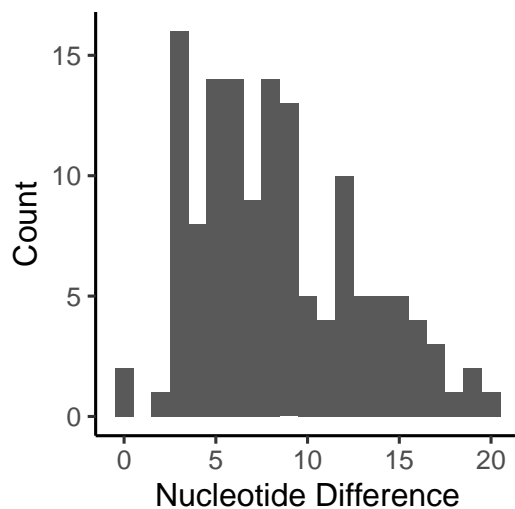
IGHV5-10-1*01_03

4 sequences assigned
No exact matches.



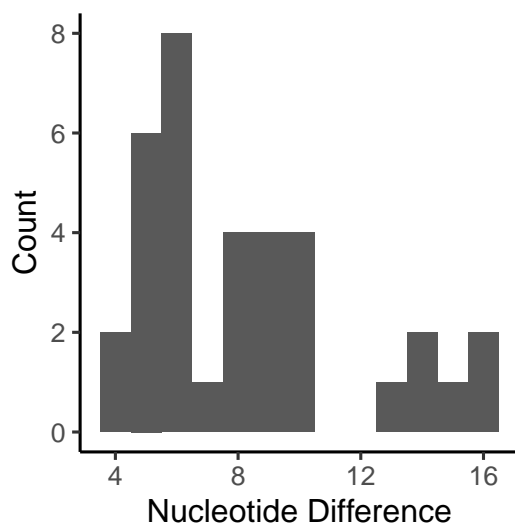
IGHV6-1*01_02

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

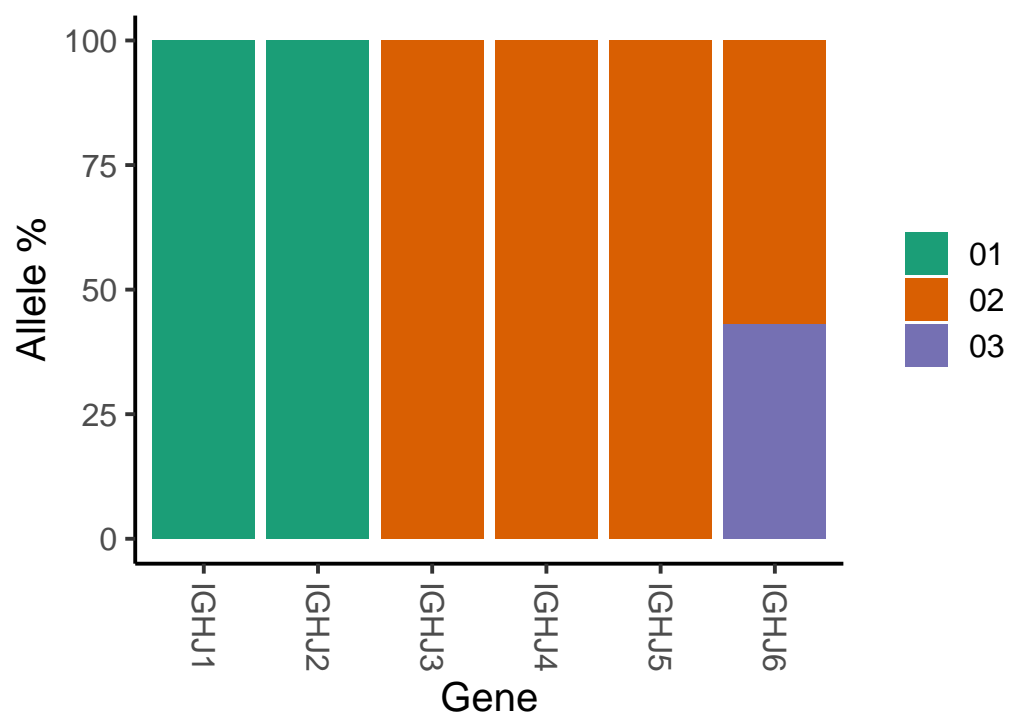


IGHV5-51*07

35 sequences assigned
No exact matches.



Allele Usage



Sequence Count by IGHJ6 allele usage



Warning – no inferred sequences found.