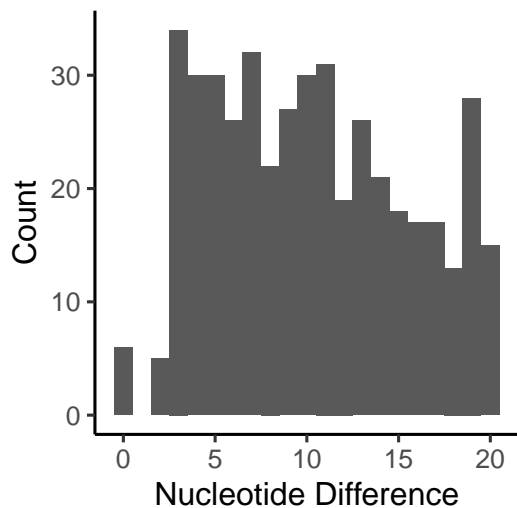


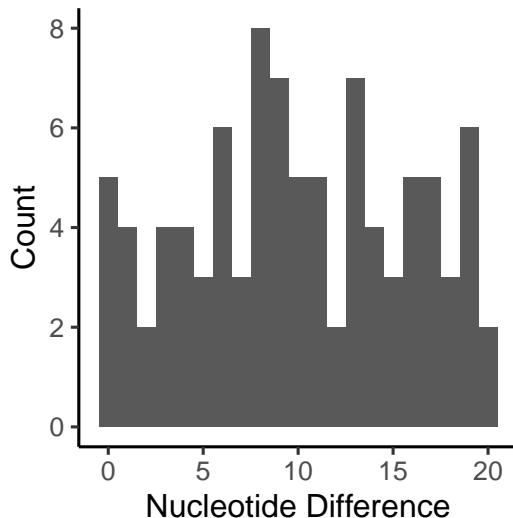
IGHV1-2*02

561 sequences assigned
6 (1.1%) exact matches, in which:
6 unique CDR3
2 unique J



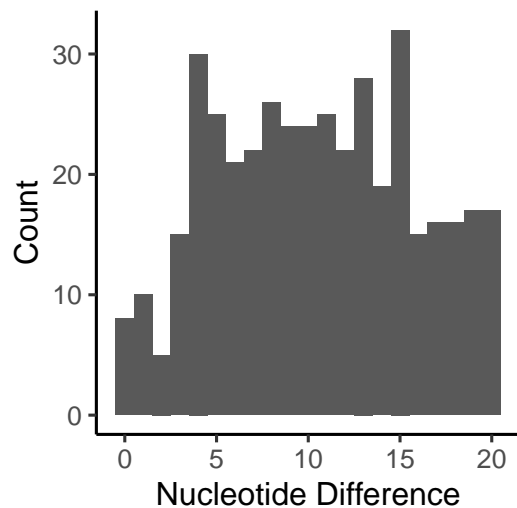
IGHV1-3*01_05

121 sequences assigned
5 (4.1%) exact matches, in which:
5 unique CDR3
2 unique J



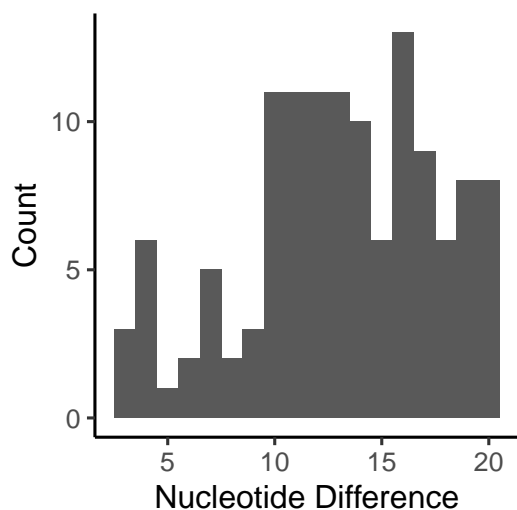
IGHV1-18*01

556 sequences assigned
8 (1.4%) exact matches, in which:
8 unique CDR3
5 unique J



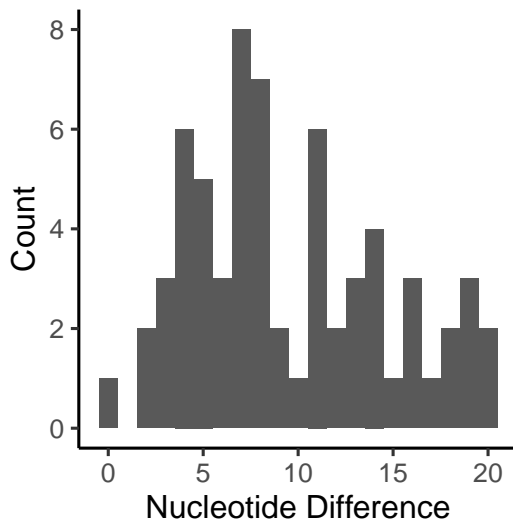
IGHV1-2*06

201 sequences assigned
No exact matches.



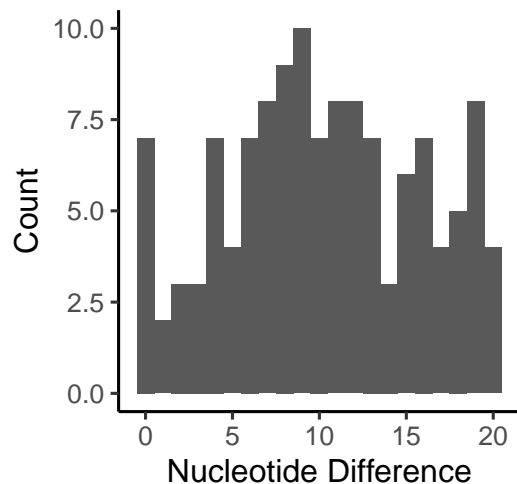
IGHV1-8*01

77 sequences assigned
1 (1.3%) exact matches, in which:
1 unique CDR3
1 unique J



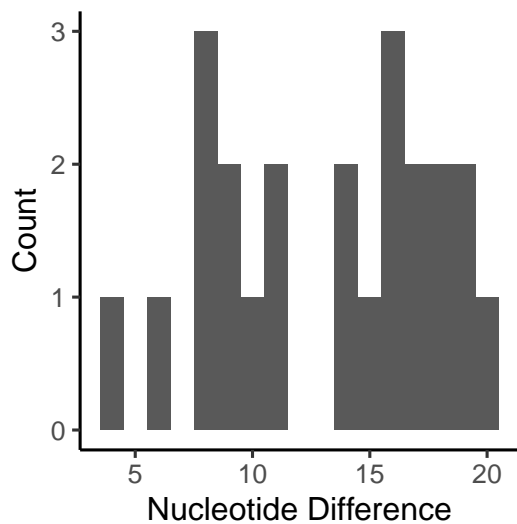
IGHV1-18*04

210 sequences assigned
7 (3.3%) exact matches, in which:
7 unique CDR3
4 unique J



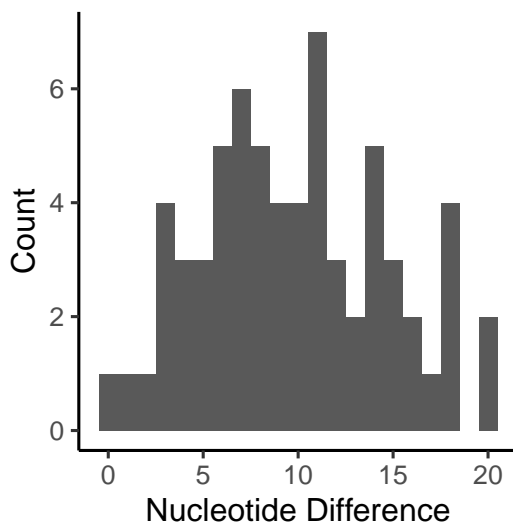
IGHV1-3*04

31 sequences assigned
No exact matches.



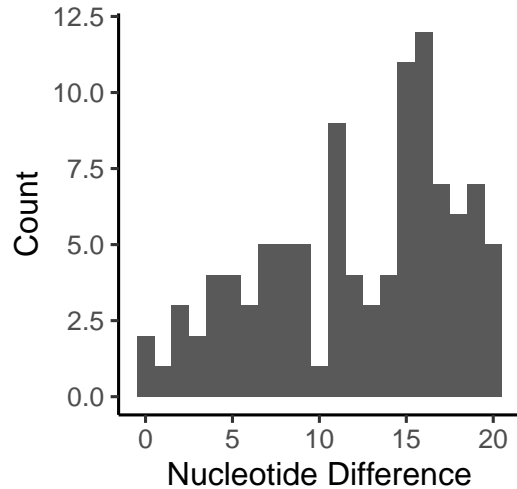
IGHV1-8*02

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



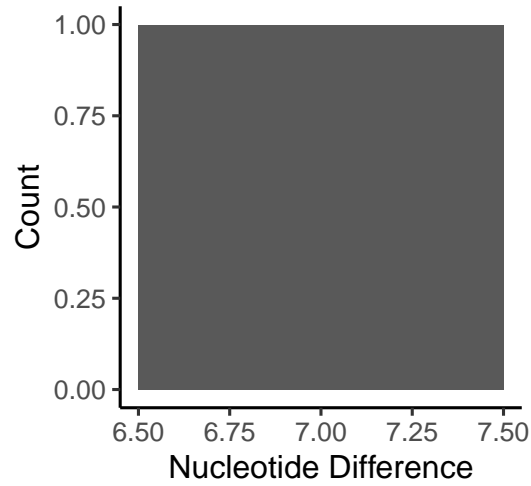
IGHV1-24*01

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



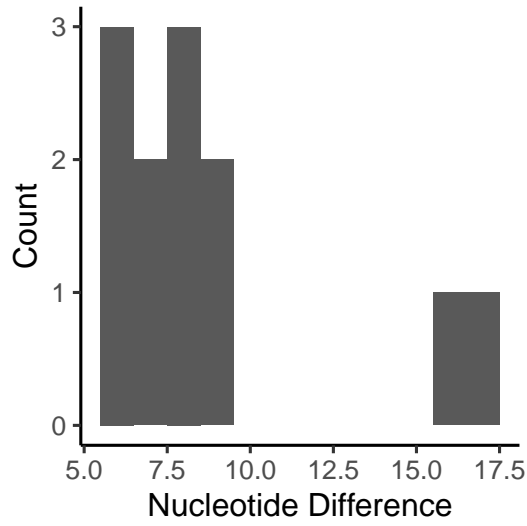
IGHV1-45*02

1 sequences assigned
No exact matches.



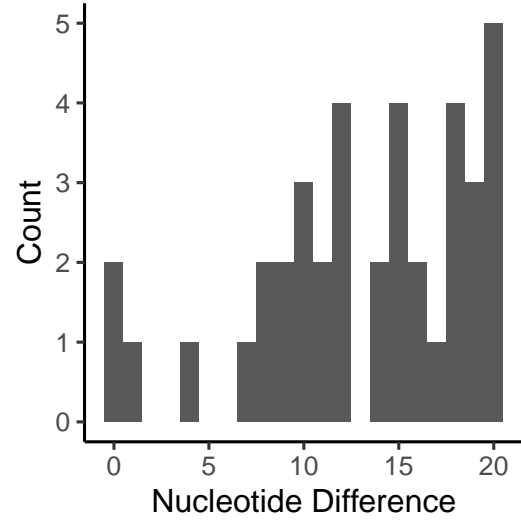
IGHV1-58*02

16 sequences assigned
No exact matches.



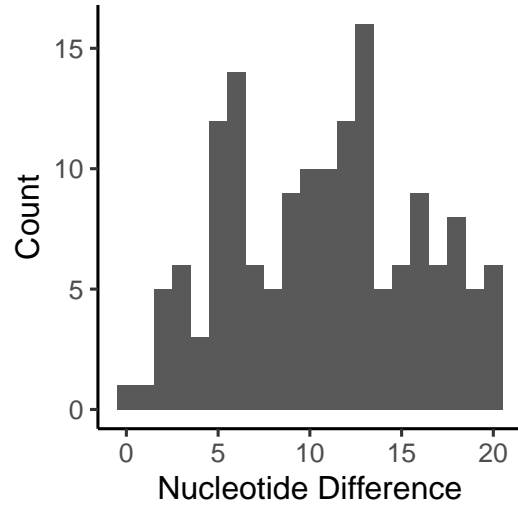
IGHV1-69*02

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



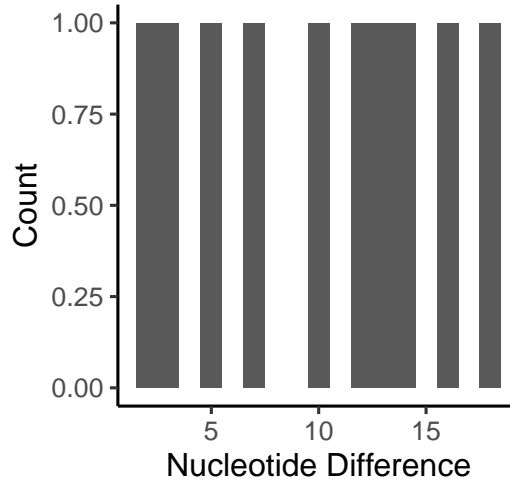
IGHV1-46*01

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



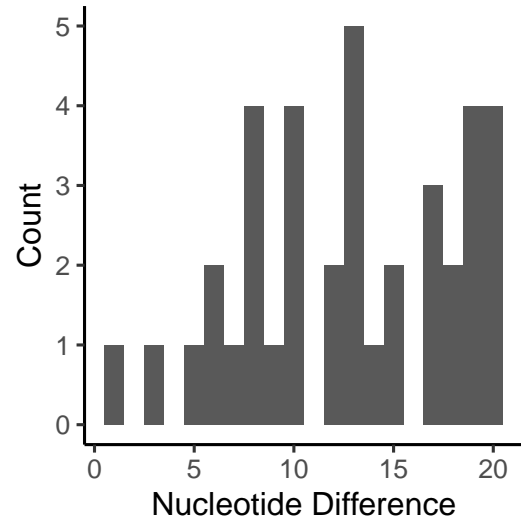
IGHV1-58*01_03

12 sequences assigned
No exact matches.



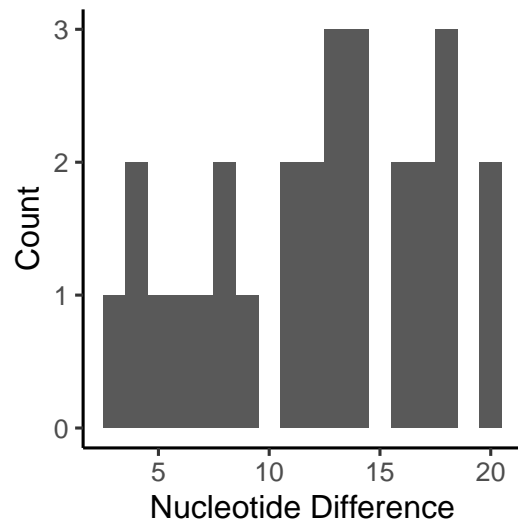
IGHV1-69*08

65 sequences assigned
No exact matches.



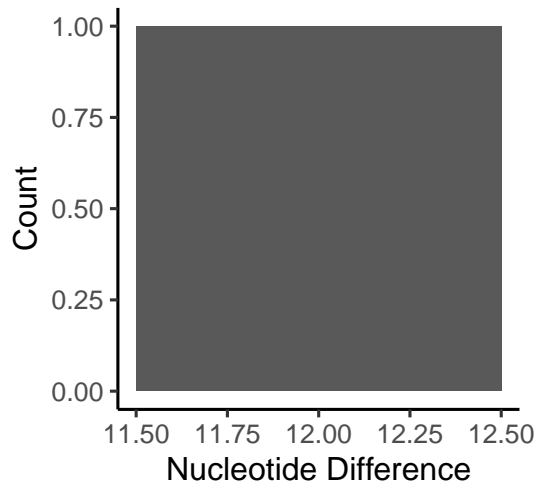
IGHV1-46*03

45 sequences assigned
No exact matches.



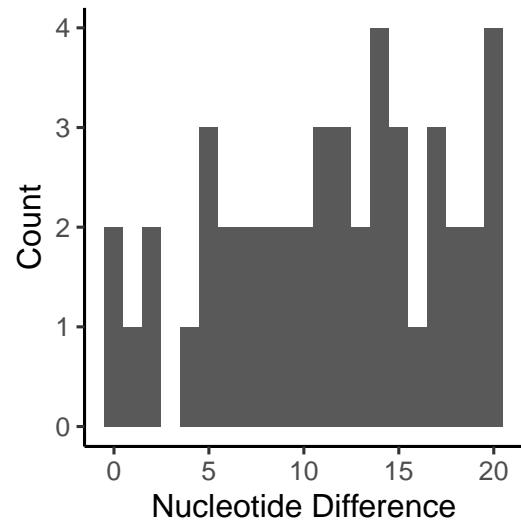
IGHV1-69-2*01

2 sequences assigned
No exact matches.



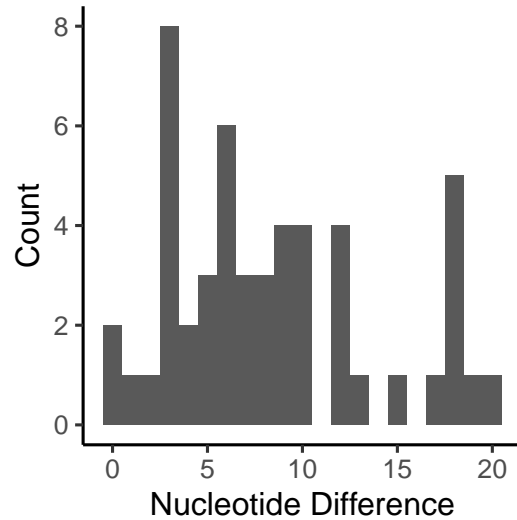
IGHV1-69*06_14

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



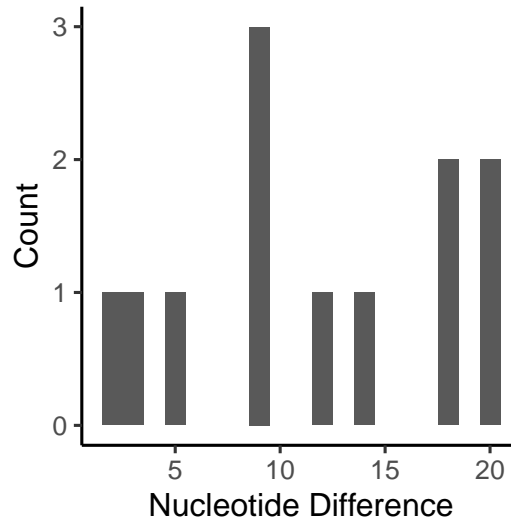
IGHV2-5*01

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



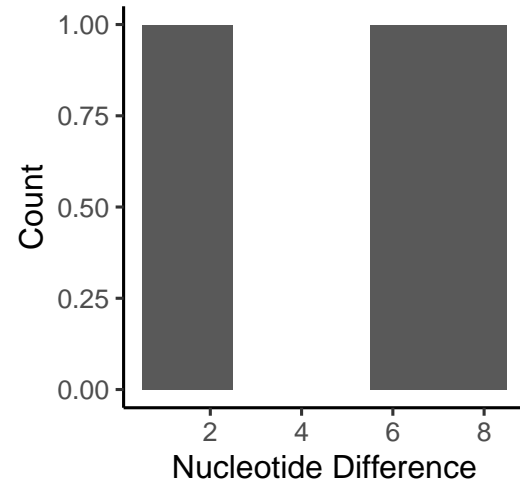
IGHV2-70*01

15 sequences assigned
No exact matches.



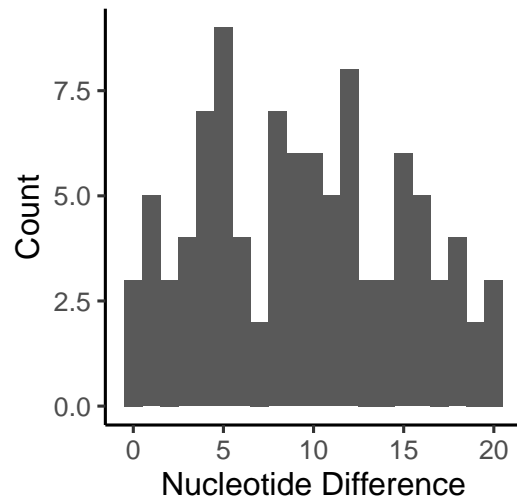
IGHV2-70D*04

7 sequences assigned
No exact matches.



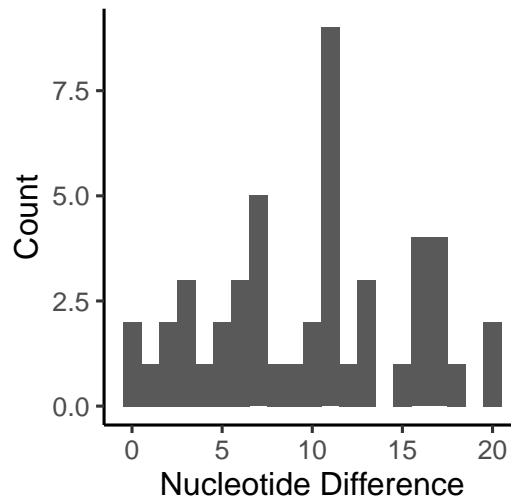
IGHV2-5*02

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



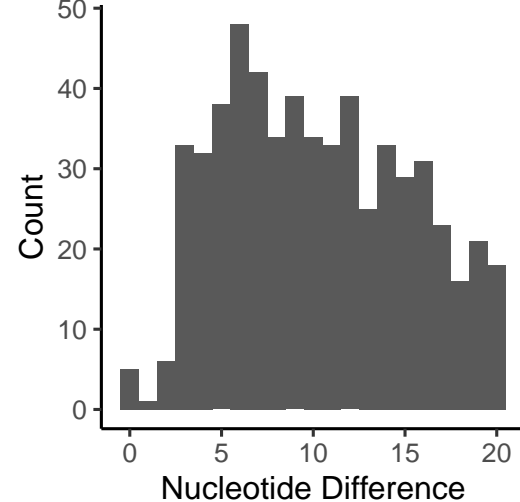
IGHV2-70*11_15

51 sequences assigned
2 (3.9%) exact matches, in which:
2 unique CDR3
2 unique J



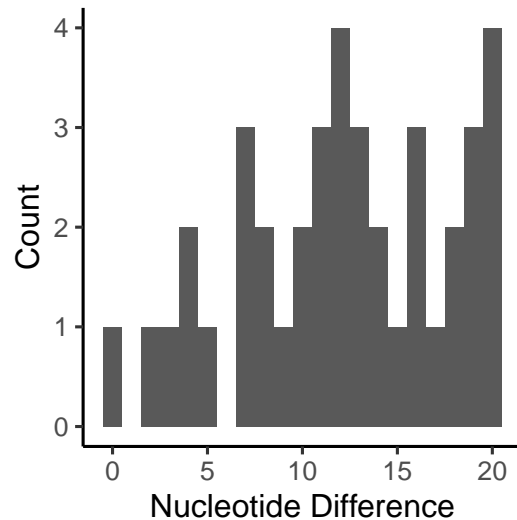
IGHV3-7*01

724 sequences assigned
5 (0.7%) exact matches, in which:
5 unique CDR3
1 unique J



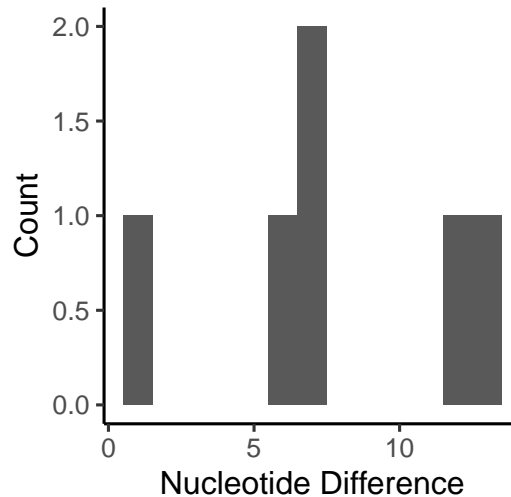
IGHV2-26*01

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



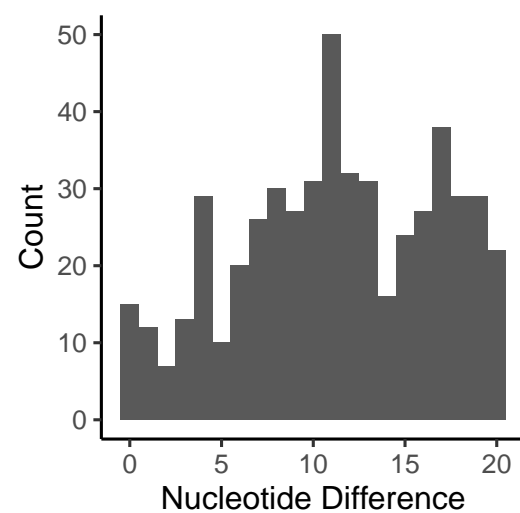
IGHV2-70*16_17

8 sequences assigned
No exact matches.



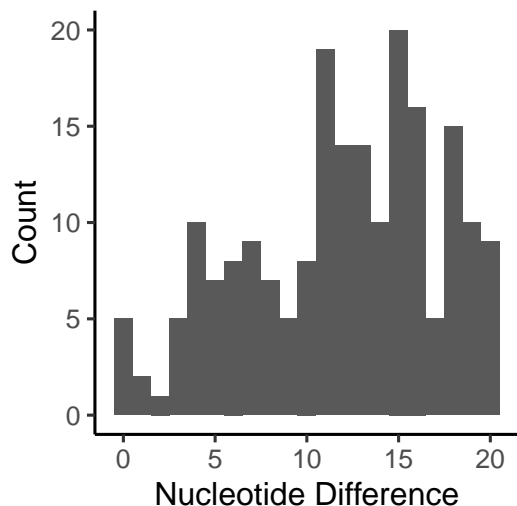
IGHV3-7*03

649 sequences assigned
15 (2.3%) exact matches, in which:
11 unique CDR3
5 unique J



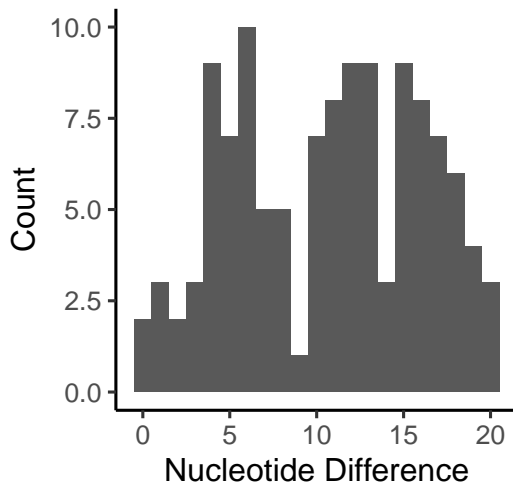
IGHV3-9*01

232 sequences assigned
5 (2.2%) exact matches, in which:
3 unique CDR3
2 unique J



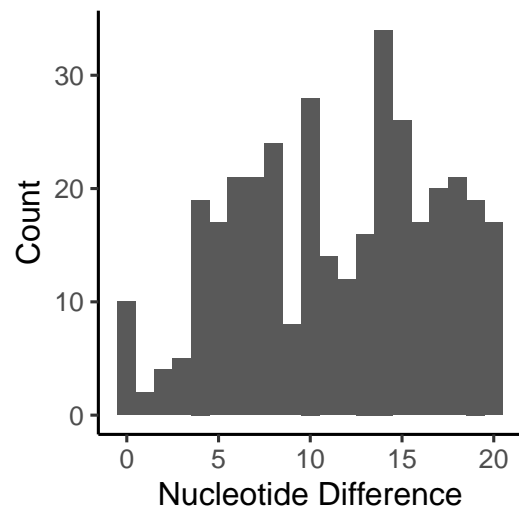
IGHV3-11*06

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



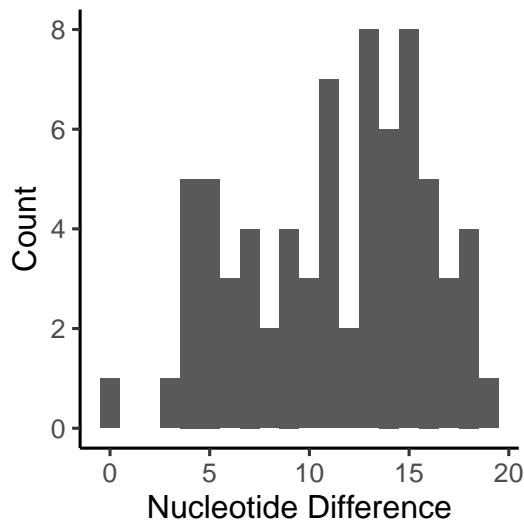
IGHV3-15*01_02

457 sequences assigned
10 (2.2%) exact matches, in which:
7 unique CDR3
3 unique J



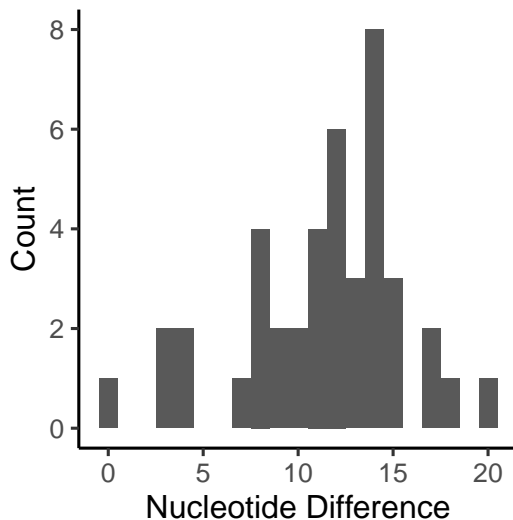
IGHV3-11*01

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



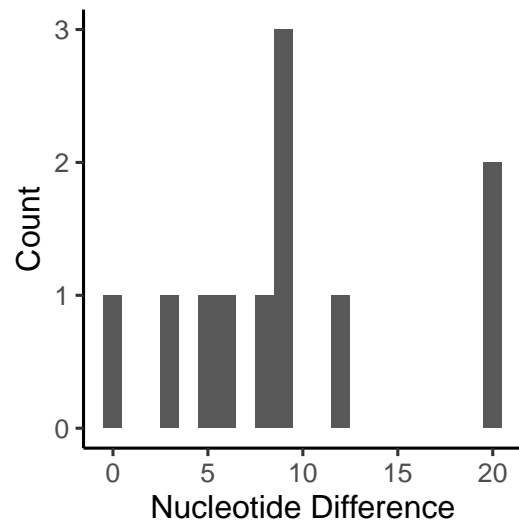
IGHV3-13*01

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



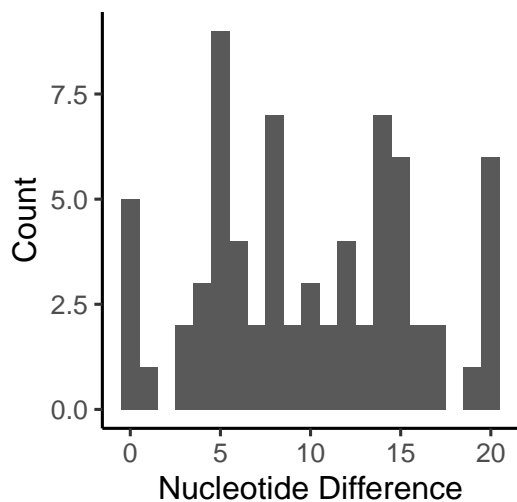
IGHV3-20*01_02

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



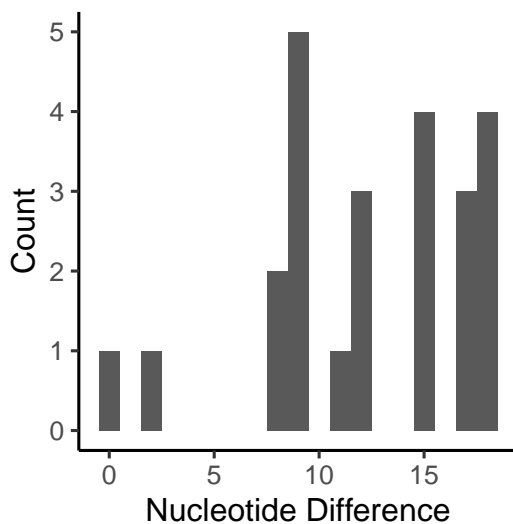
IGHV3-11*04

87 sequences assigned
5 (5.7%) exact matches, in which:
4 unique CDR3
2 unique J



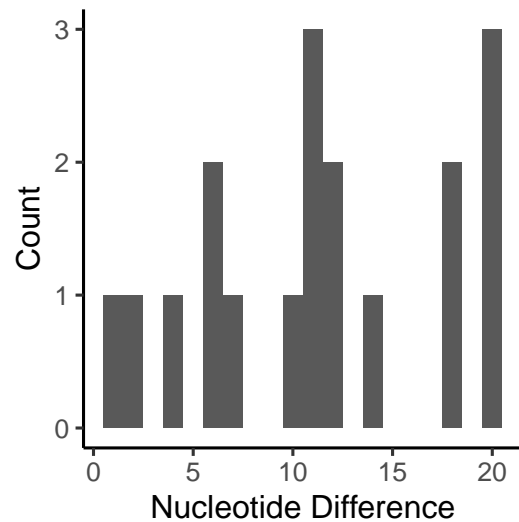
IGHV3-13*05

24 sequences assigned
1 (4.2%) exact matches, in which:
1 unique CDR3
1 unique J



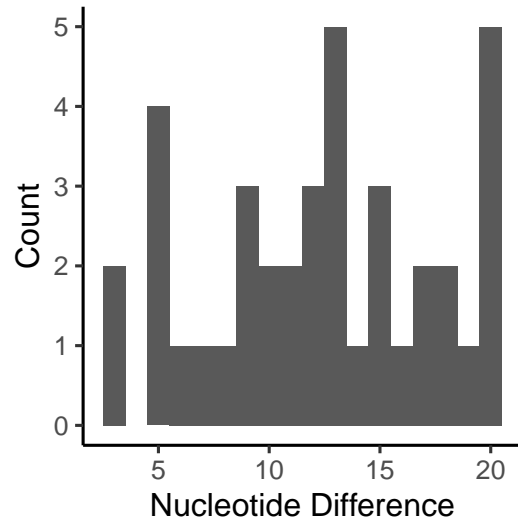
IGHV3-20*03_04

21 sequences assigned
No exact matches.



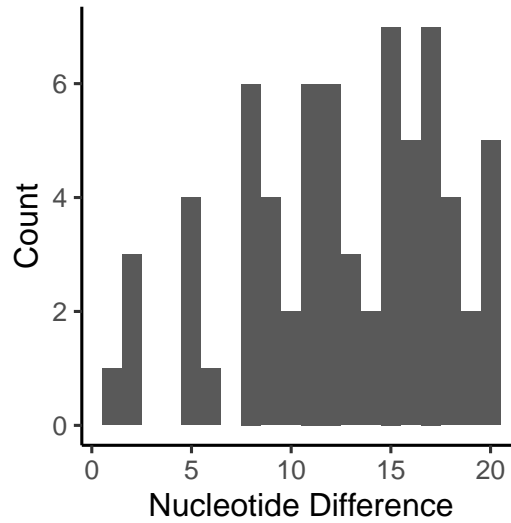
IGHV3-21*06

97 sequences assigned
No exact matches.



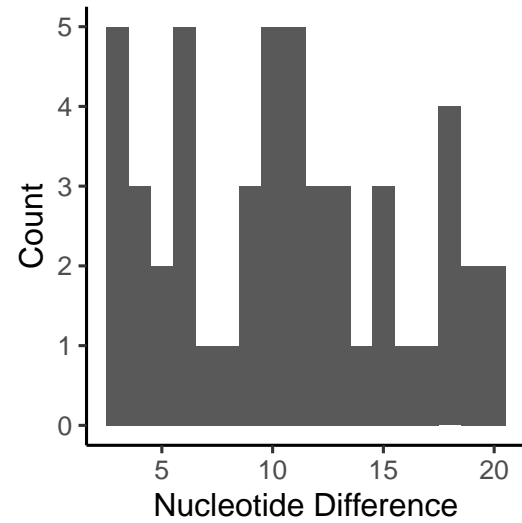
IGHV3-43*01

89 sequences assigned
No exact matches.



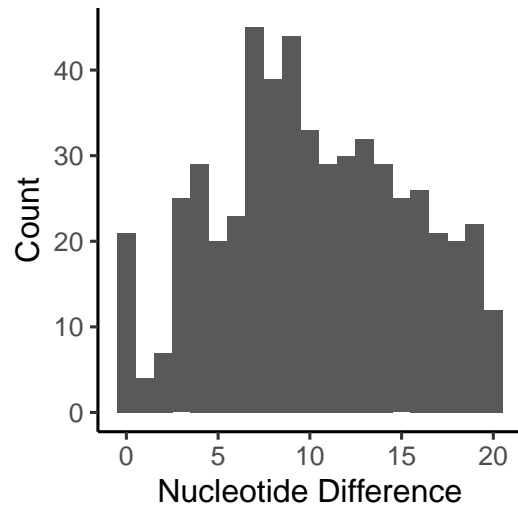
IGHV3-49*03_05

66 sequences assigned
No exact matches.



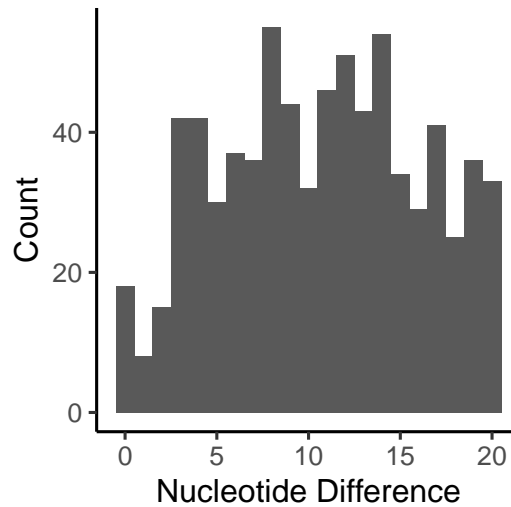
IGHV3-21*01_02

659 sequences assigned
21 (3.2%) exact matches, in which:
17 unique CDR3
5 unique J



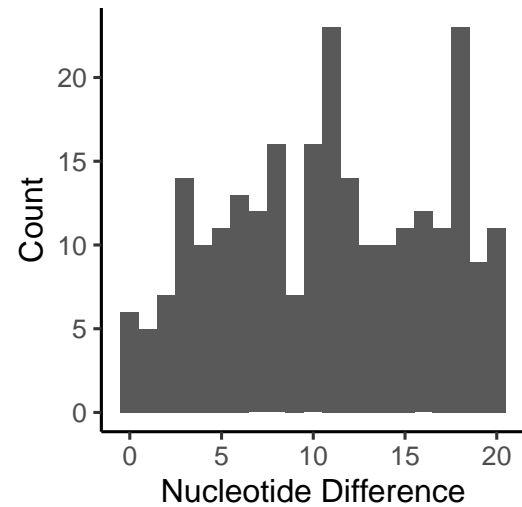
IGHV3-48*02

953 sequences assigned
18 (1.9%) exact matches, in which:
15 unique CDR3
5 unique J



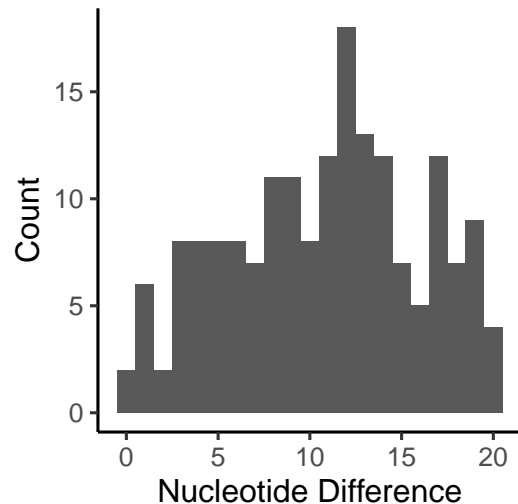
IGHV3-53*01_02

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



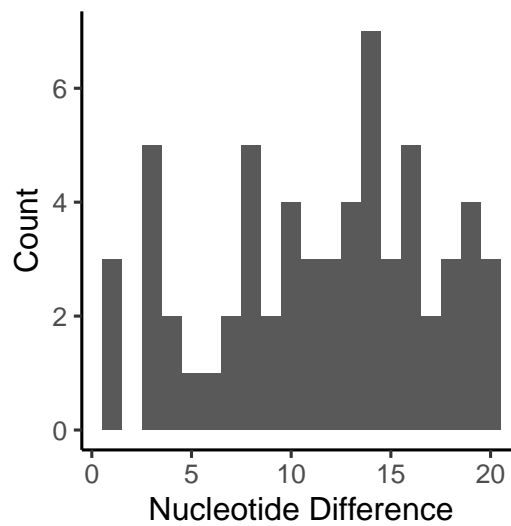
IGHV3-33*01

240 sequences assigned
2 (0.8%) exact matches, in which:
2 unique CDR3
1 unique J



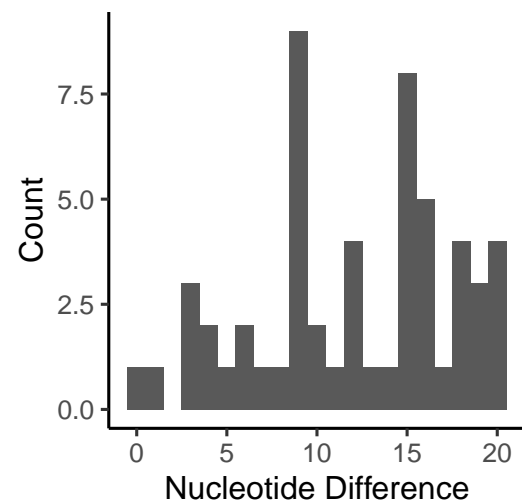
IGHV3-49*04

74 sequences assigned
No exact matches.



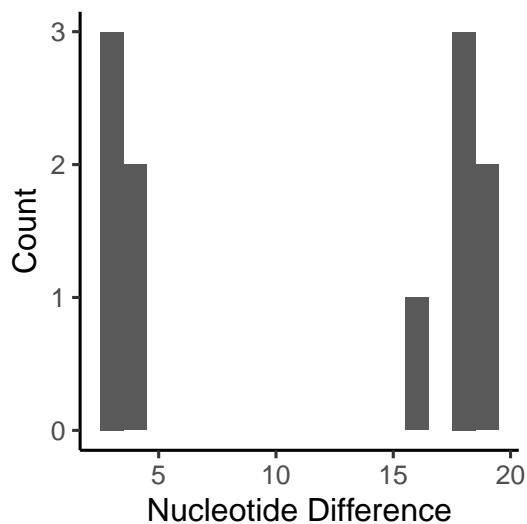
IGHV3-64*01

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



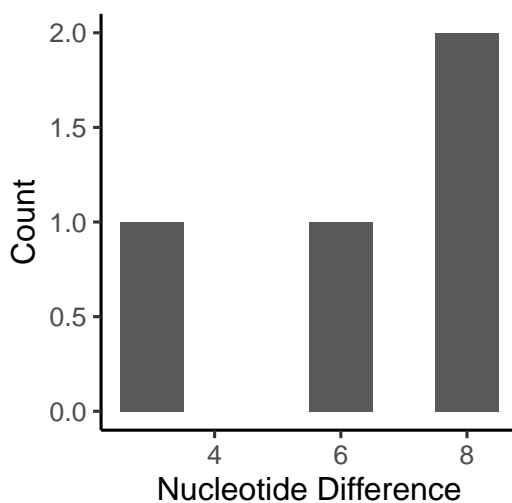
IGHV3-64*02_07

18 sequences assigned
No exact matches.



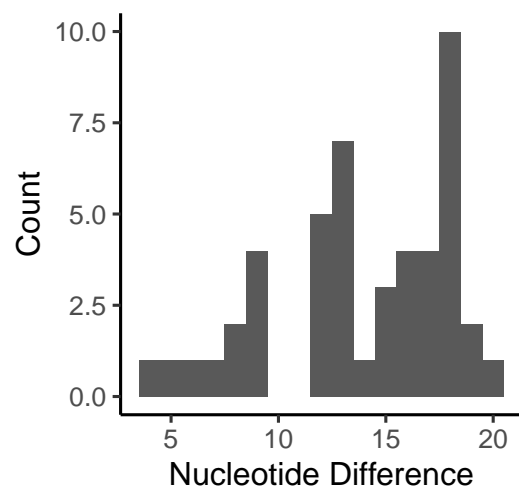
IGHV3-69-1*02

5 sequences assigned
No exact matches.



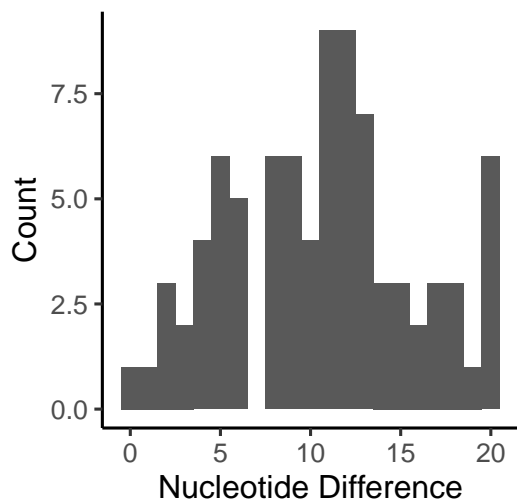
IGHV3-74*03

61 sequences assigned
No exact matches.



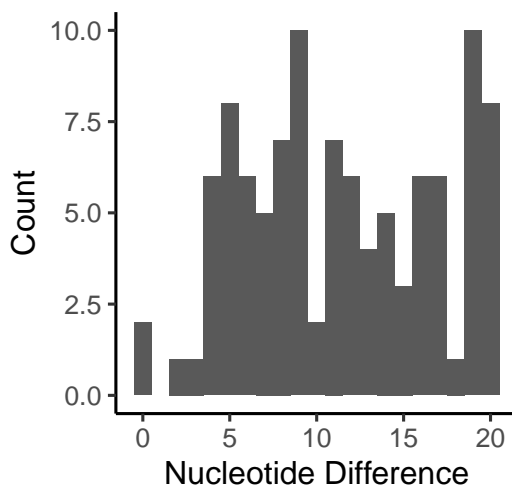
IGHV3-66*01

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



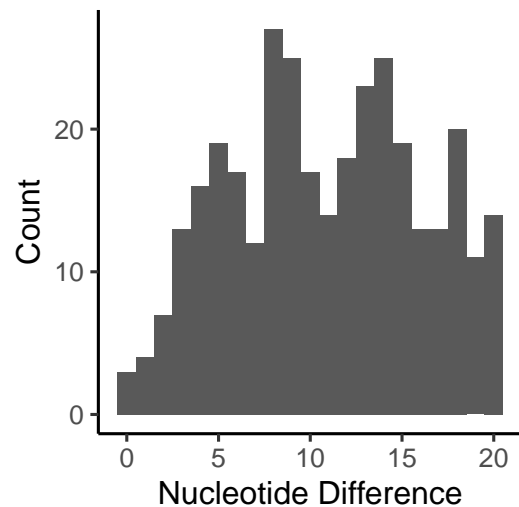
IGHV3-72*01

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



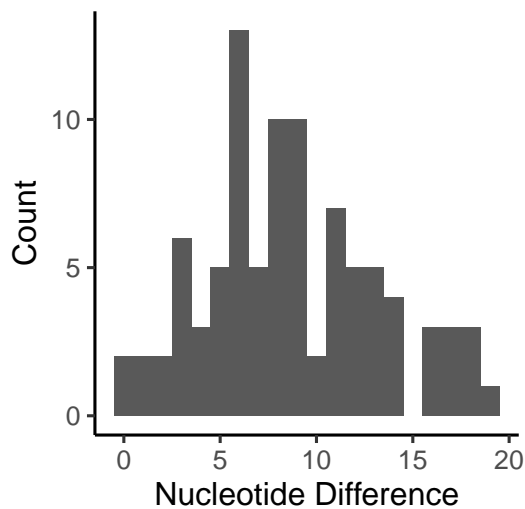
IGHV3-74*01_02

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



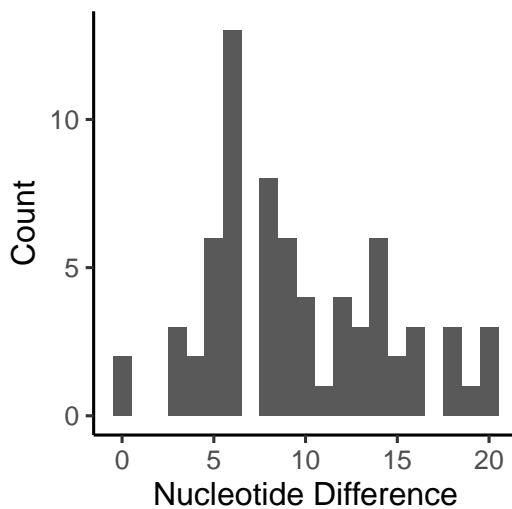
IGHV3-66*02

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



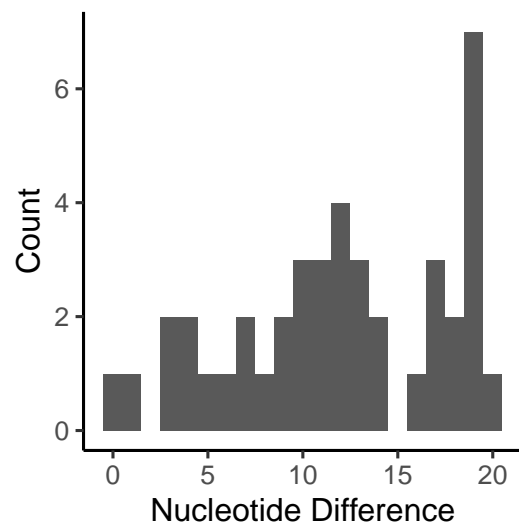
IGHV3-73*01_02

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



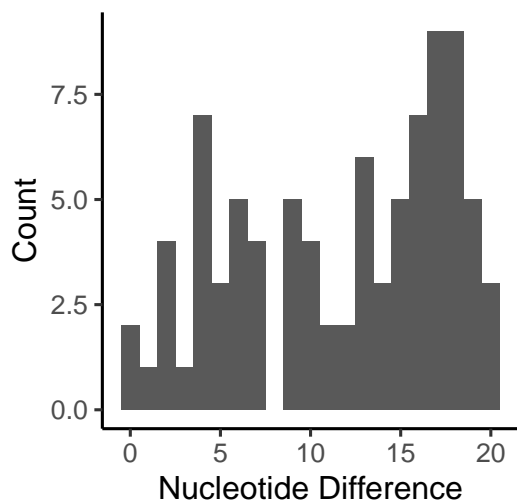
IGHV3-43D*03

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



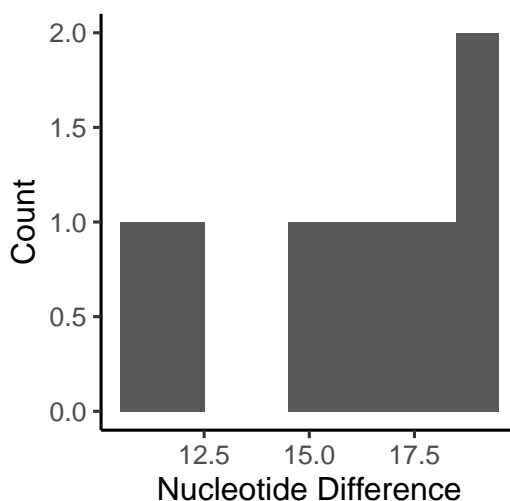
IGHV3-64D*06

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



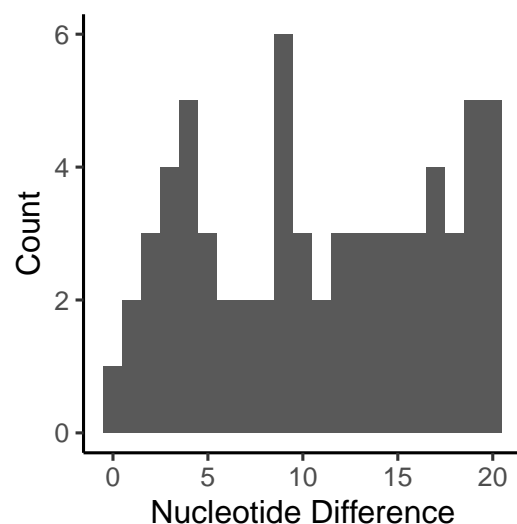
IGHV4-28*01_07

9 sequences assigned
No exact matches.



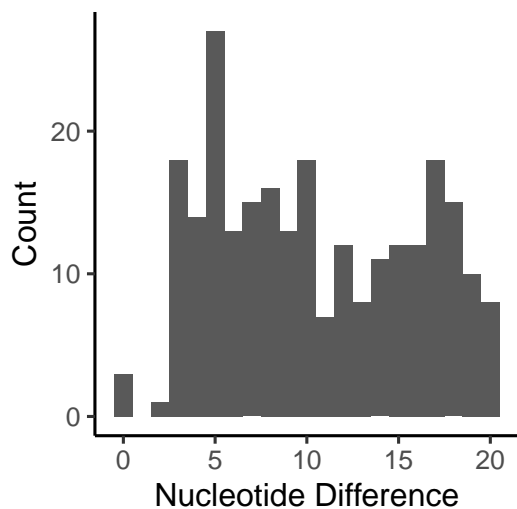
IGHV4-31*03_04

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



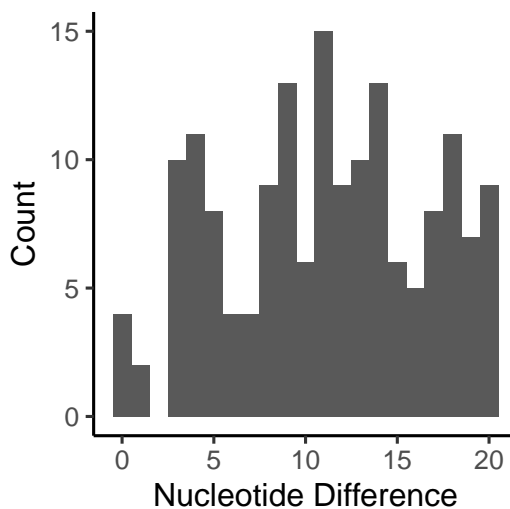
IGHV4-4*07

340 sequences assigned
3 (0.9%) exact matches, in which:
3 unique CDR3
3 unique J



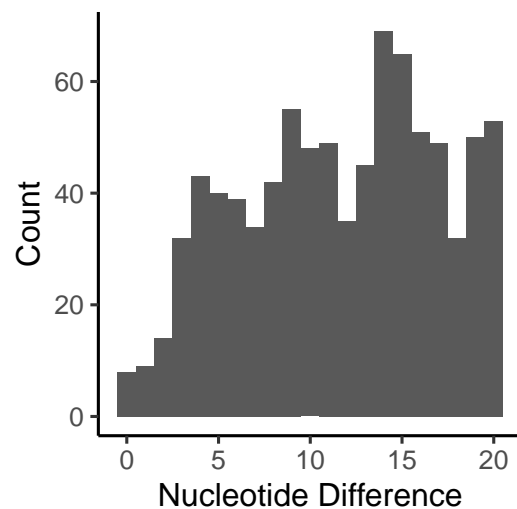
IGHV4-30-2*01

248 sequences assigned
4 (1.6%) exact matches, in which:
4 unique CDR3
3 unique J



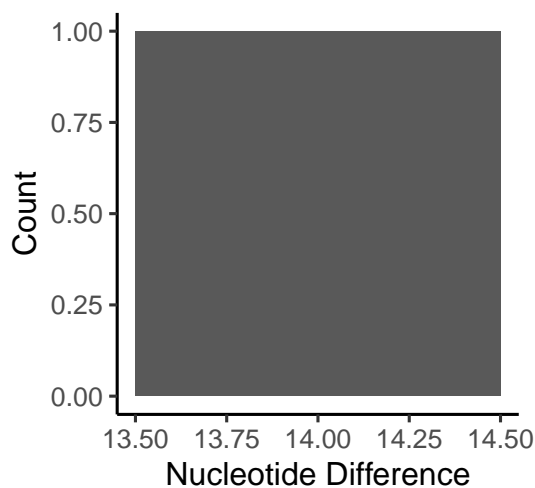
IGHV4-34*01_02

1196 sequences assigned
8 (0.7%) exact matches, in which:
7 unique CDR3
5 unique J



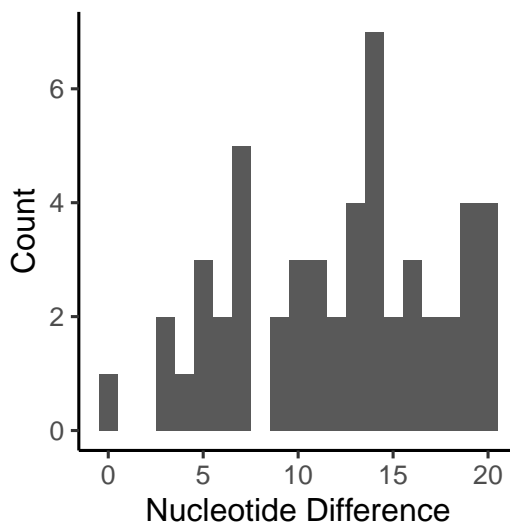
IGHV4-28*03

5 sequences assigned
No exact matches.



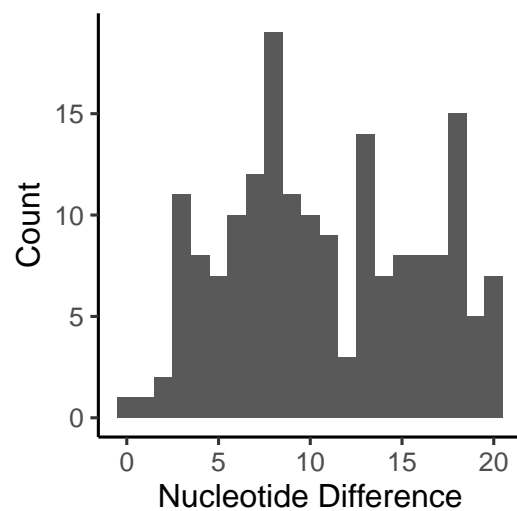
IGHV4-30-4*07

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



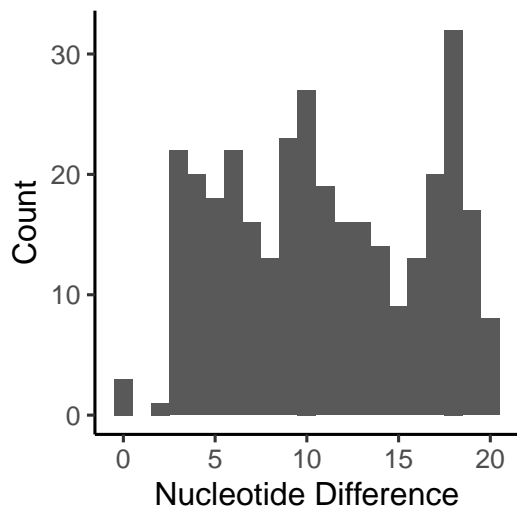
IGHV4-38-2*02

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



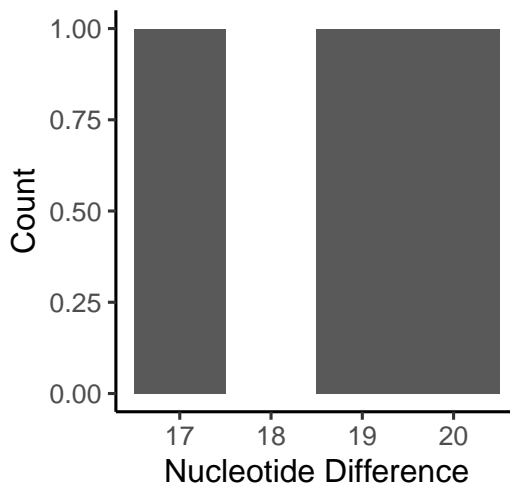
IGHV4-39*07

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



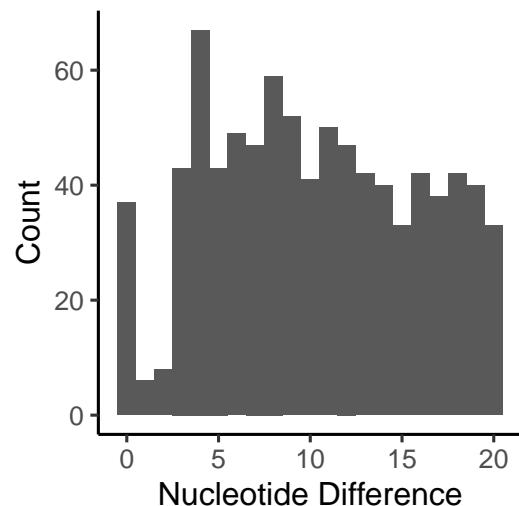
IGHV4-55*09

9 sequences assigned
No exact matches.



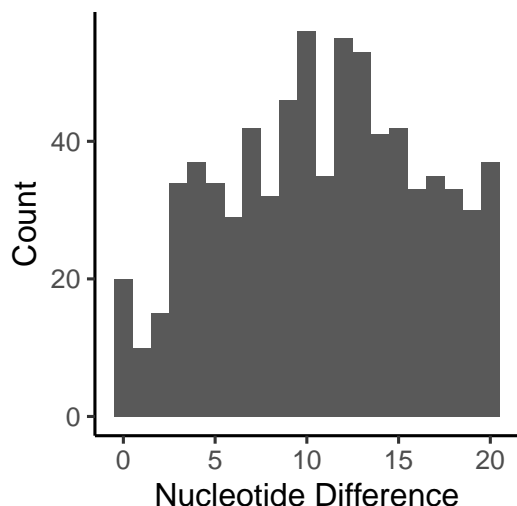
IGHV4-59*01_07

1147 sequences assigned
37 (3.2%) exact matches, in which:
30 unique CDR3
6 unique J



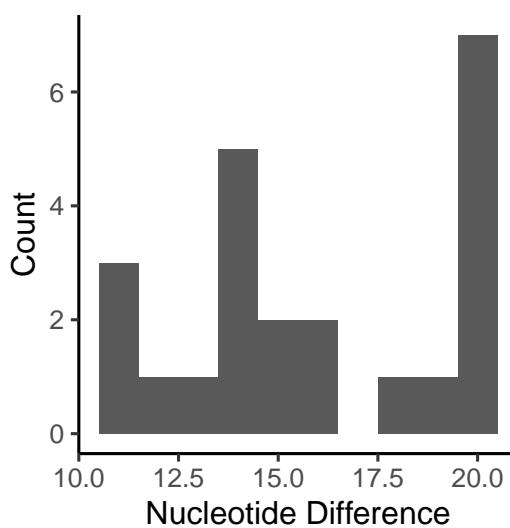
IGHV4-39*01_05

1154 sequences assigned
20 (1.7%) exact matches, in which:
17 unique CDR3
6 unique J



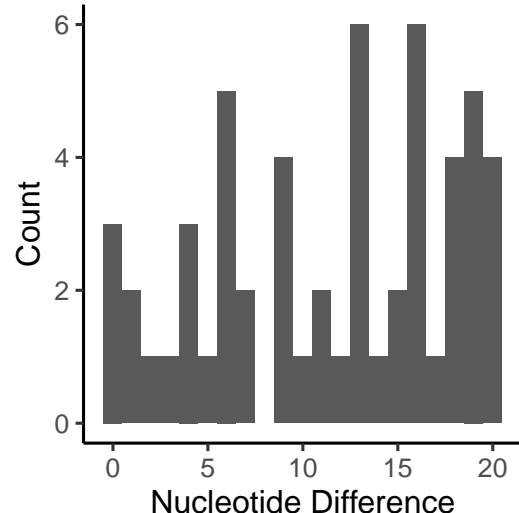
IGHV4-55*02_04_08

62 sequences assigned
No exact matches.



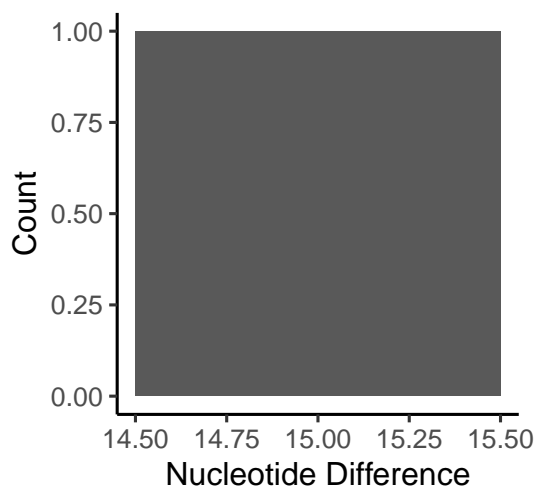
IGHV4-61*01

82 sequences assigned
3 (3.7%) exact matches, in which:
3 unique CDR3
3 unique J



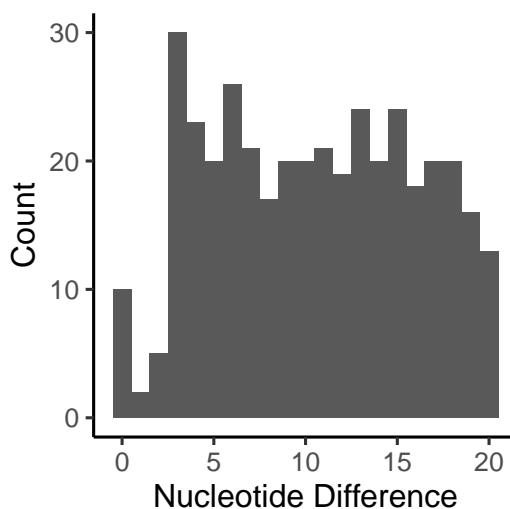
IGHV4-55*03

5 sequences assigned
No exact matches.



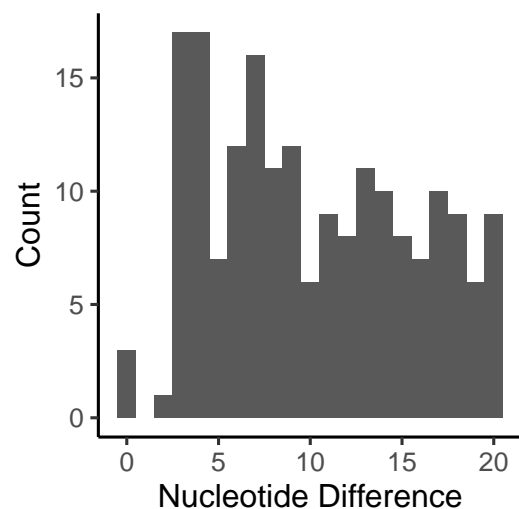
IGHV4-59*08

500 sequences assigned
10 (2%) exact matches, in which:
8 unique CDR3
3 unique J



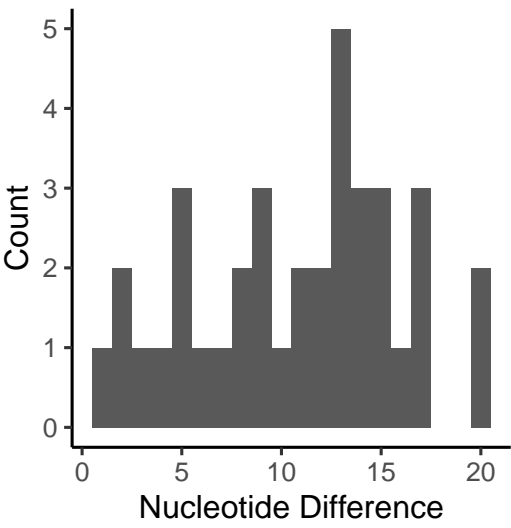
IGHV4-61*02

235 sequences assigned
3 (1.3%) exact matches, in which:
2 unique CDR3
1 unique J



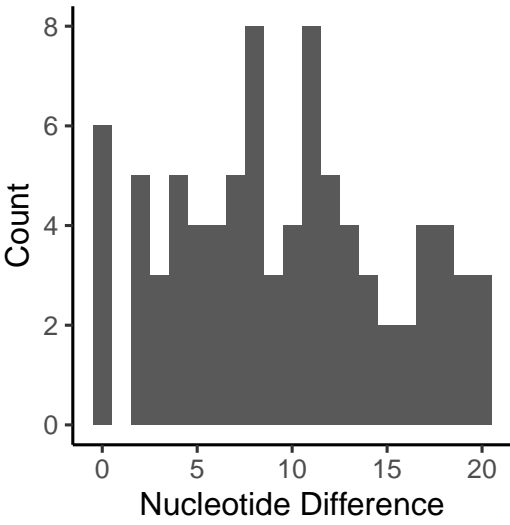
IGHV5-10-1*01_03

55 sequences assigned
No exact matches.



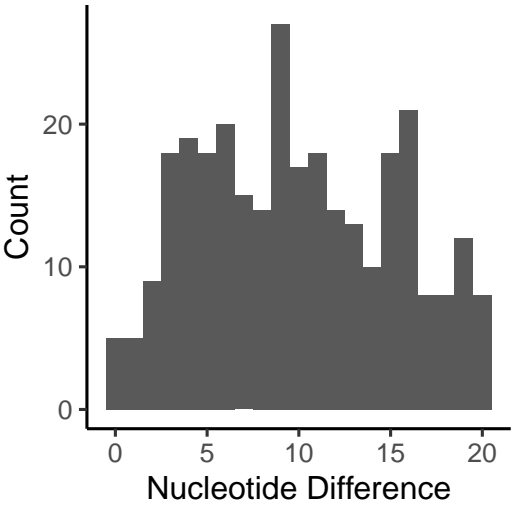
IGHV7-4-1*02

131 sequences assigned
6 (4.6%) exact matches, in which:
6 unique CDR3
1 unique J



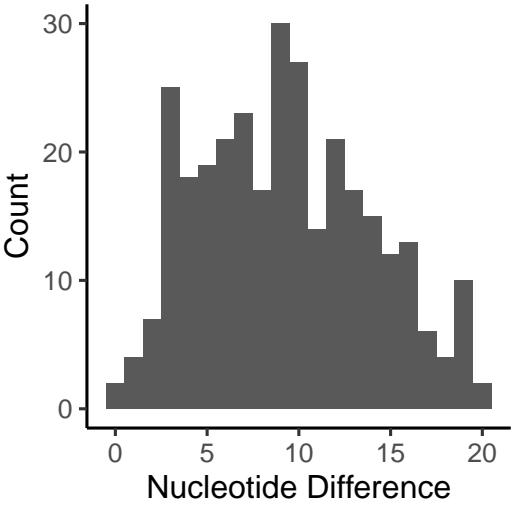
IGHV5-51*01_03

348 sequences assigned
5 (1.4%) exact matches, in which:
5 unique CDR3
2 unique J

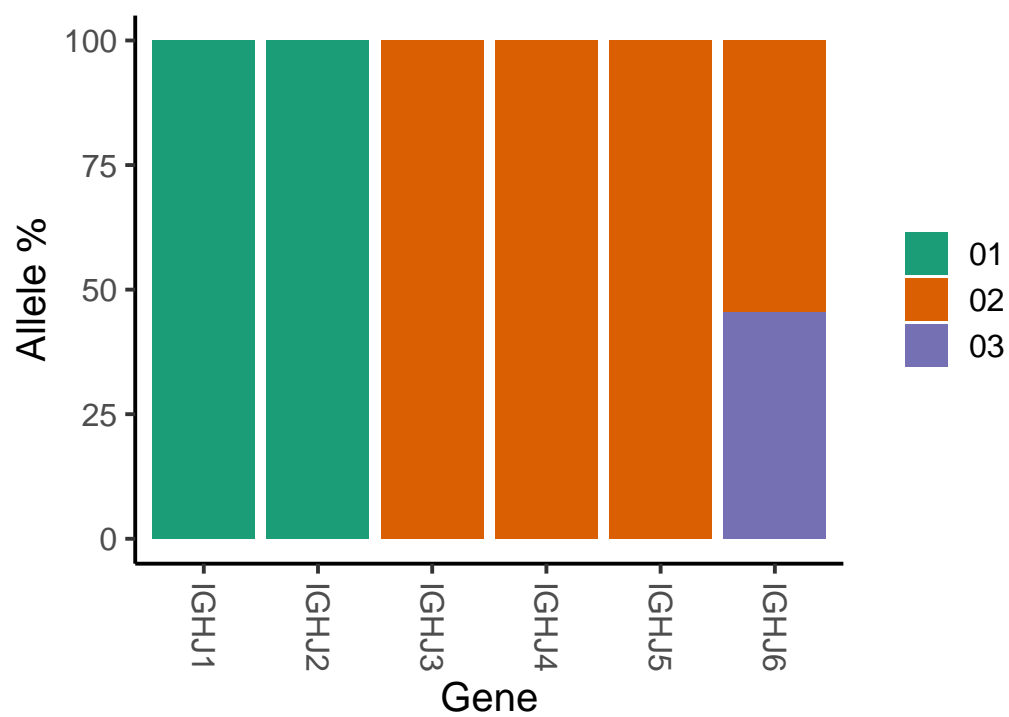


IGHV6-1*01_02

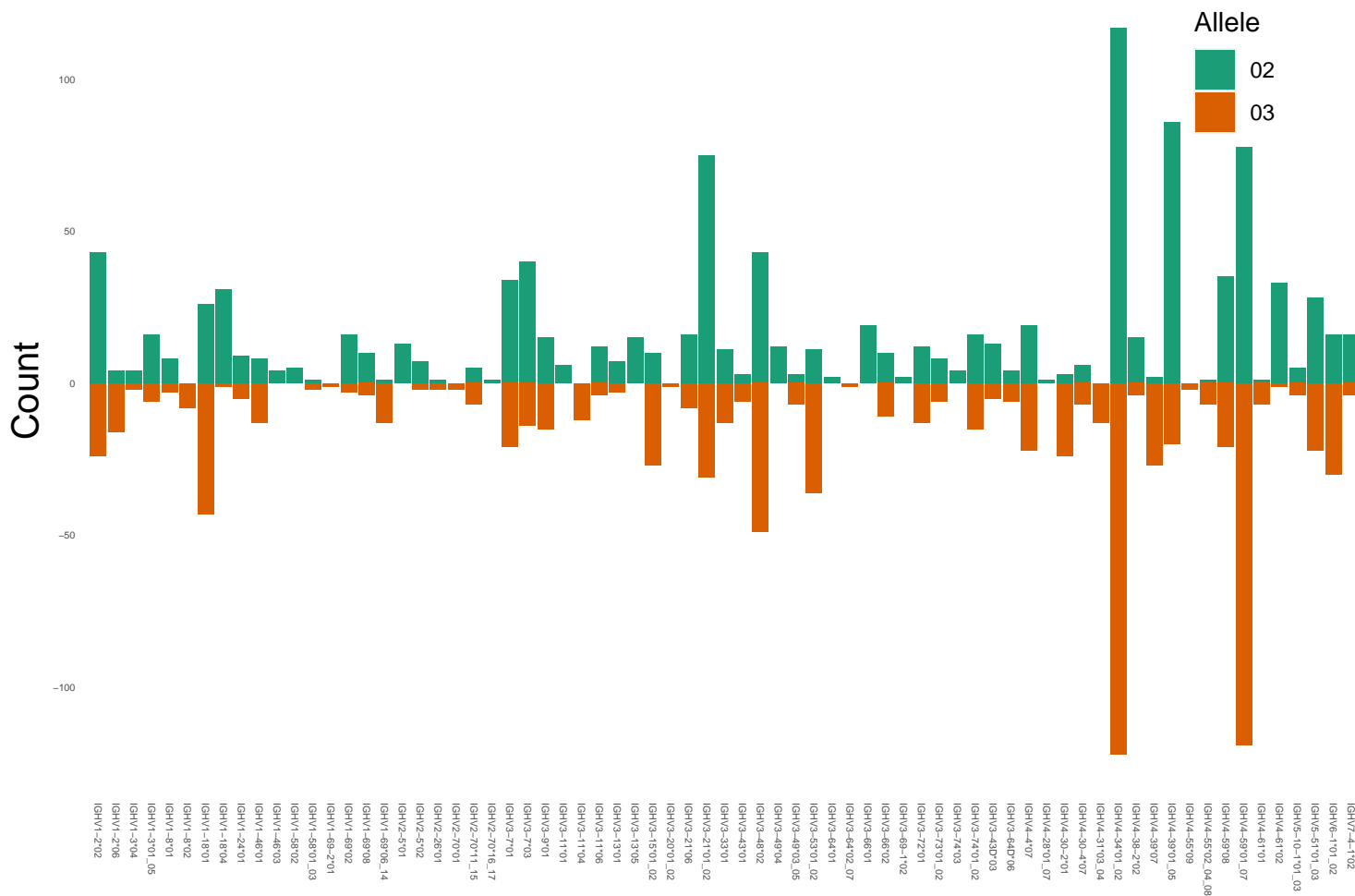
337 sequences assigned
2 (0.6%) exact matches, in which:
2 unique CDR3
1 unique J



Allele Usage



Sequence Count by IGHJ6 allele usage



Novel sequence(s)IGHV4–39*02_C258GIGHV4–59*02_G88AIGHV5–51*07_A128G are not listed in the genotype and will be ignored.

Warning – no inferred sequences found.

Novel sequence(s)IGHV5–51*07_A128G are not listed in the genotype and will be ignored.

Warning – no inferred sequences found.

Novel sequence(s)IGHV4–59*02_G88AIGHV5–51*07_A128G are not listed in the genotype and will be ignored.

Novel sequence(s)IGHV5–51*07_A128G are not listed in the genotype and will be ignored.

Novel sequence(s)IGHV4–59*02_G88AIGHV5–51*07_A128G are not listed in the genotype and will be ignored.

Novel sequence(s)IGHV5–51*07_A128G are not listed in the genotype and will be ignored.

Warning – no inferred sequences found.

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Novel sequence(s)IGHV4–39*02_C258GIGHV5–51*07_A128G are not listed in the genotype and will be ignored.

Warning – no inferred sequences found.

Novel sequence(s)IGHV5–51*07_A128G are not listed in the genotype and will be ignored.

Warning – no inferred sequences found.

Novel sequence(s)IGHV4–59*02_G88AIGHV5–51*07_A128G are not listed in the genotype and will be ignored.

Warning – no inferred sequences found.

Novel sequence(s)IGHV4–59*02_G88AIGHV5–51*07_A128G are not listed in the genotype and will be ignored.

Warning – no inferred sequences found.

Novel sequence(s)IGHV4–59*02_G88AIGHV5–51*07_A128G are not listed in the genotype and will be ignored.

Novel sequence(s)IGHV4–59*02_G88A are not listed in the genotype and will be ignored.

Warning – no inferred sequences found.