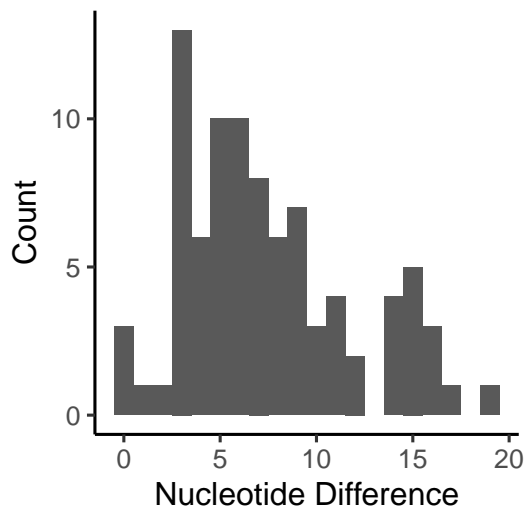


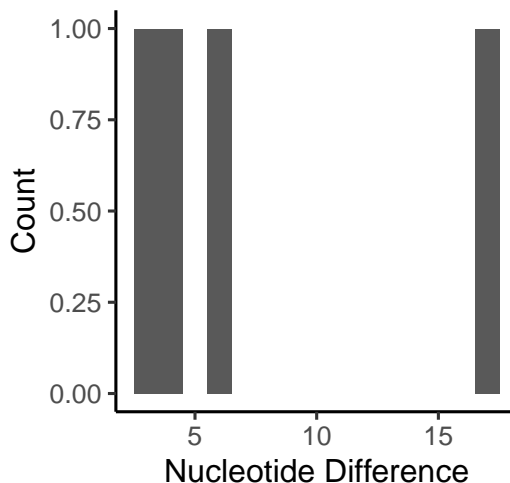
IGHV1-2*02

94 sequences assigned
3 (3.2%) exact matches, in which:
3 unique CDR3
2 unique J



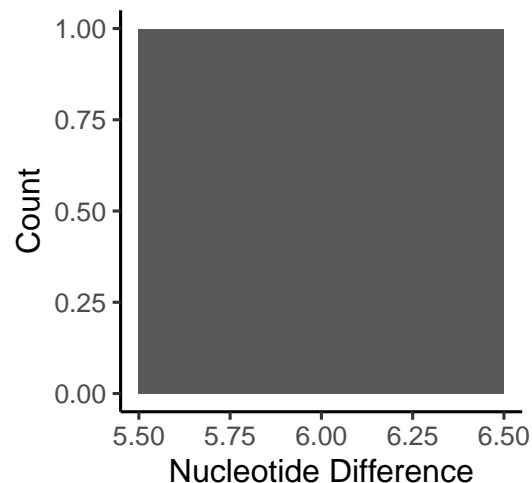
IGHV1-24*01

4 sequences assigned
No exact matches.



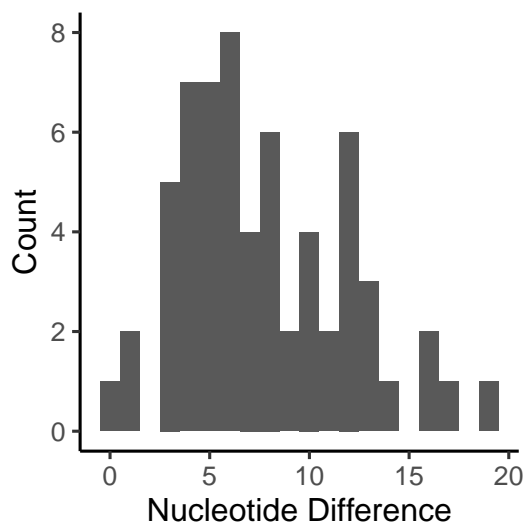
IGHV1-69-2*01

1 sequences assigned
No exact matches.



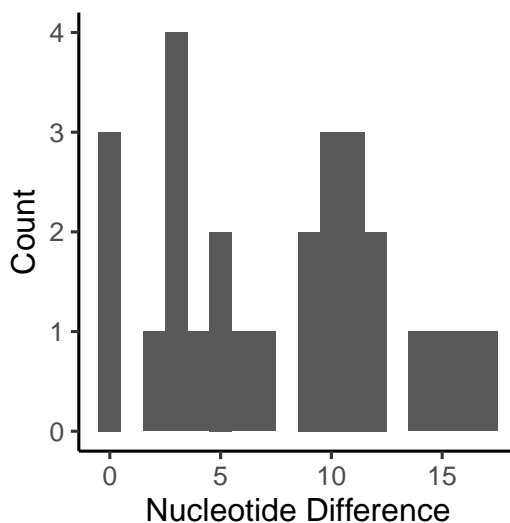
IGHV1-8*01

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



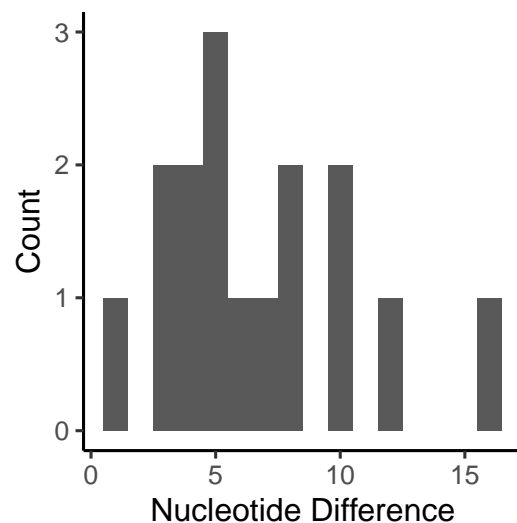
IGHV1-46*01

29 sequences assigned
3 (10.3%) exact matches, in which:
3 unique CDR3
2 unique J



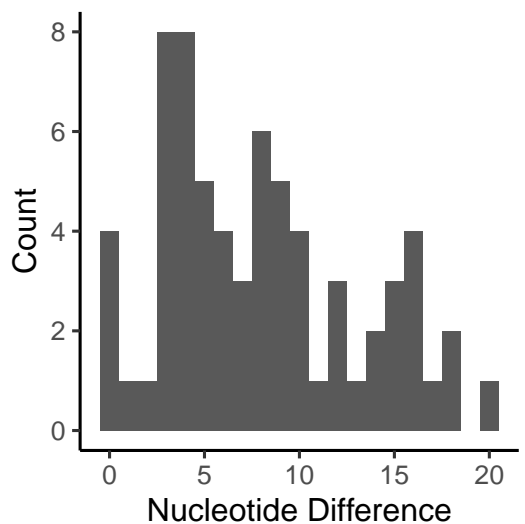
IGHV1-69*06_14

19 sequences assigned
No exact matches.



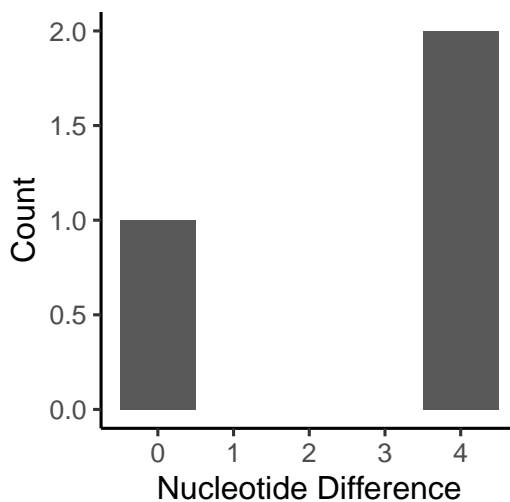
IGHV1-18*01

72 sequences assigned
4 (5.6%) exact matches, in which:
4 unique CDR3
2 unique J



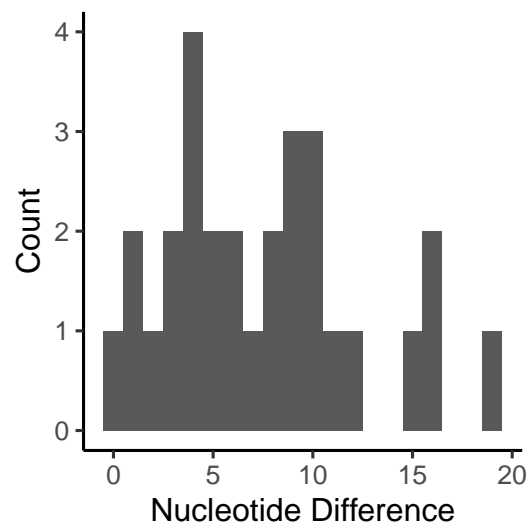
IGHV1-58*01_03

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



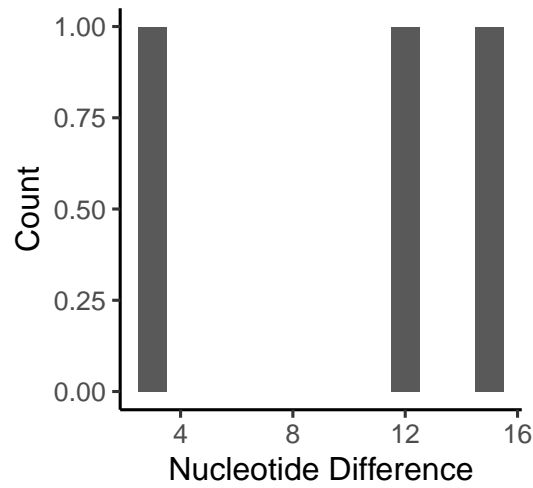
IGHV2-5*01

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



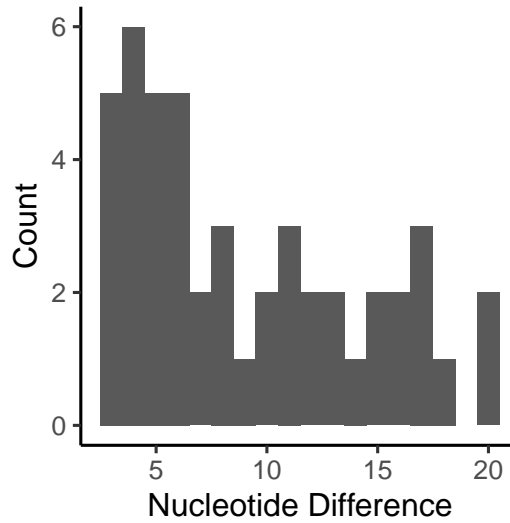
IGHV2-26*01

4 sequences assigned
No exact matches.



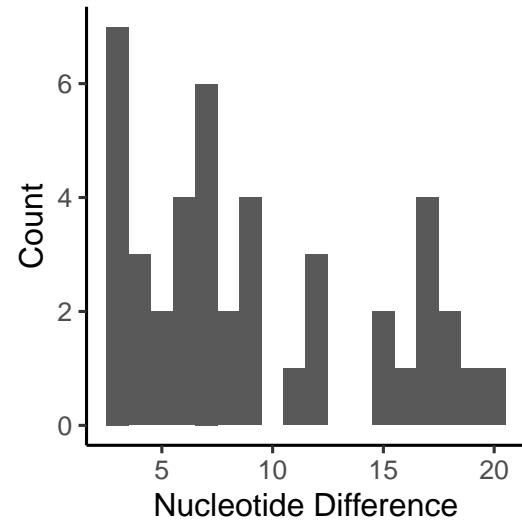
IGHV3-9*01

51 sequences assigned
No exact matches.



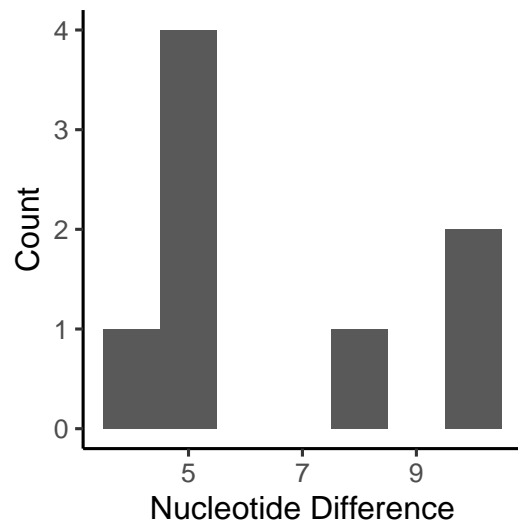
IGHV3-15*01_02

50 sequences assigned
No exact matches.



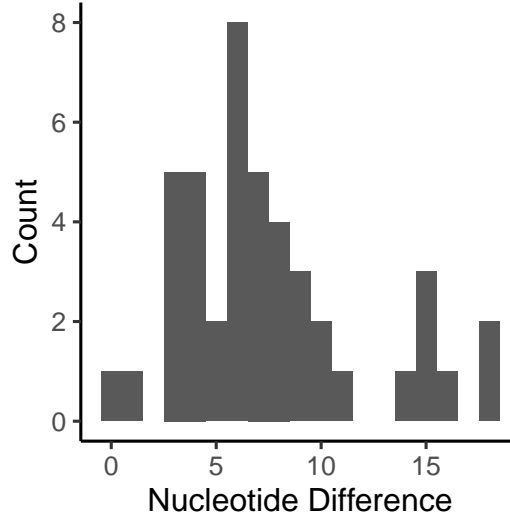
IGHV2-70*01

8 sequences assigned
No exact matches.



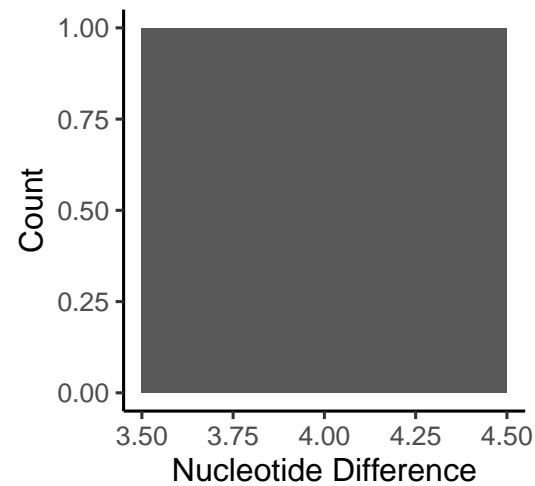
IGHV3-11*01

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



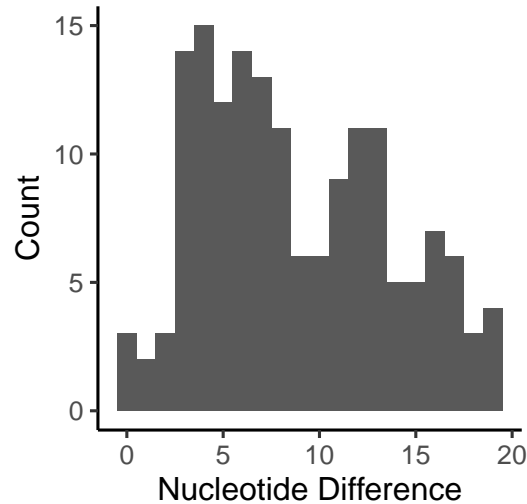
IGHV3-20*01_02

1 sequences assigned
No exact matches.



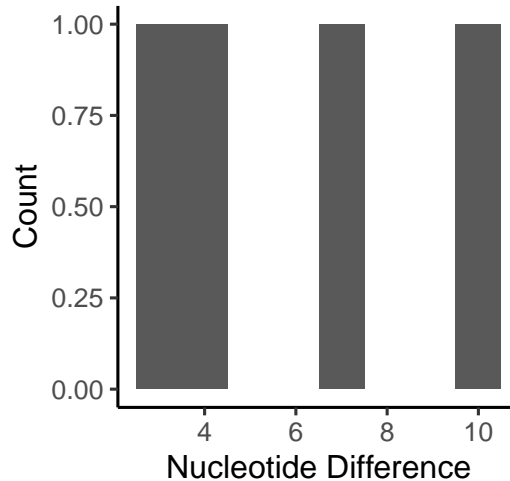
IGHV3-7*01

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



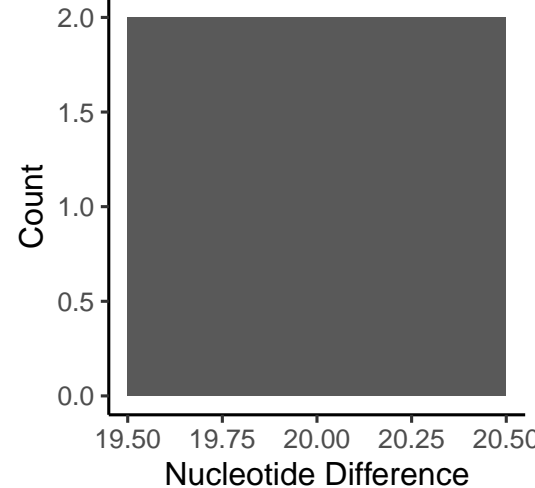
IGHV3-13*01

4 sequences assigned
No exact matches.



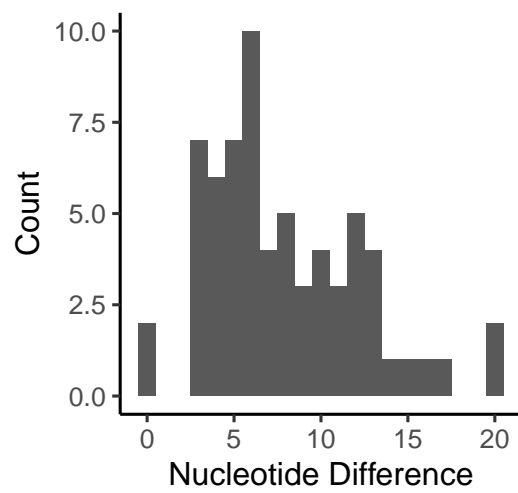
IGHV3-20*03_04

2 sequences assigned
No exact matches.



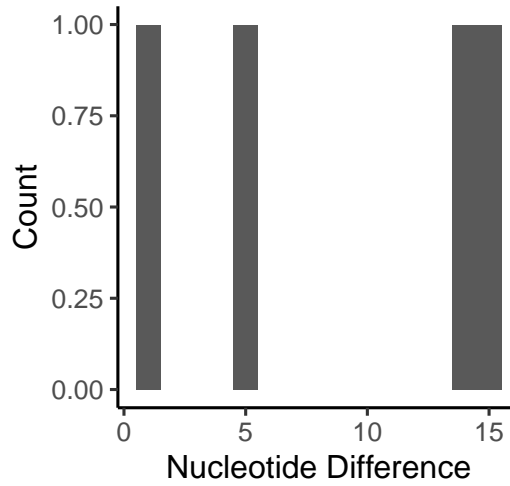
IGHV3-21*01_02

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



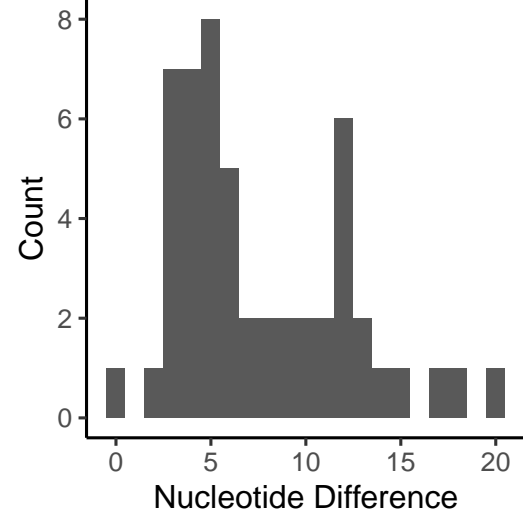
IGHV3-43*01

4 sequences assigned
No exact matches.



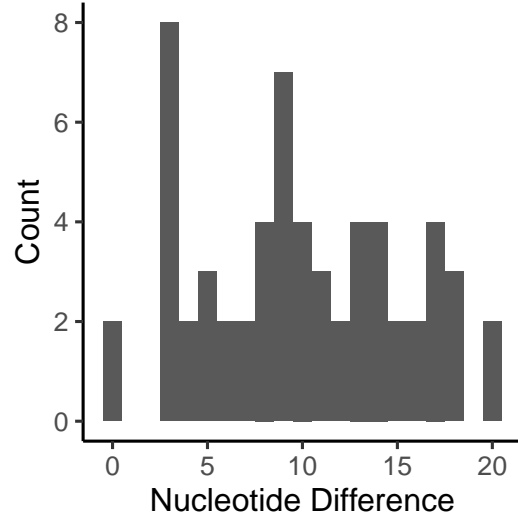
IGHV3-53*01_02

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



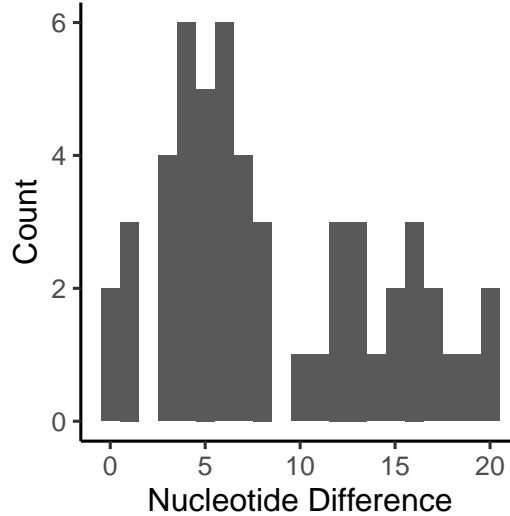
IGHV3-30-3*01

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



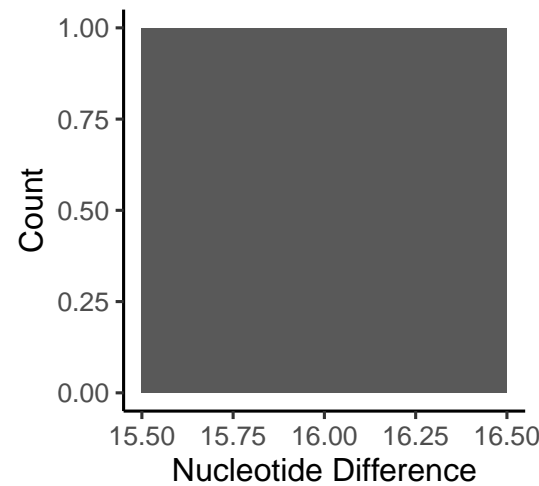
IGHV3-48*02

62 sequences assigned
2 (3.2%) exact matches, in which:
2 unique CDR3
1 unique J



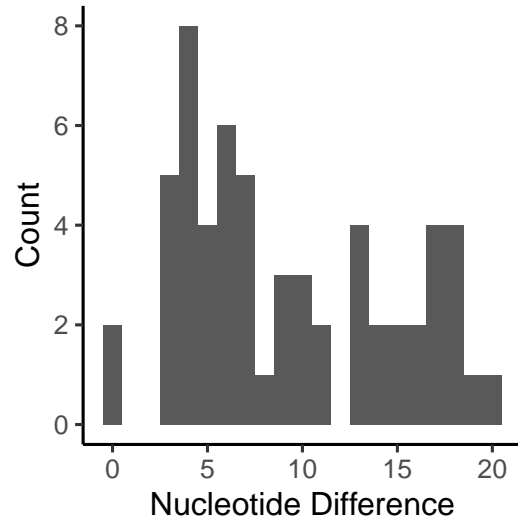
IGHV3-64*02_07

1 sequences assigned
No exact matches.



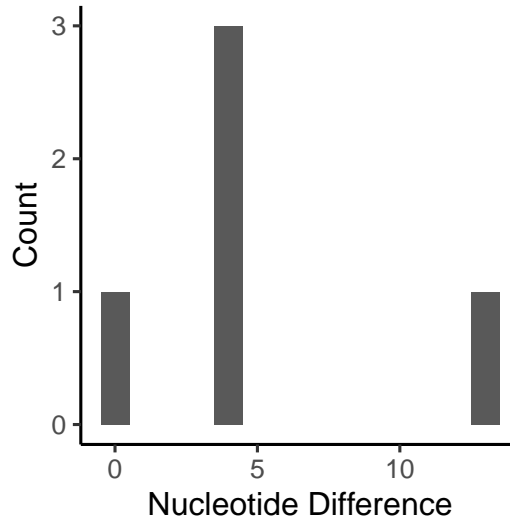
IGHV3-33*01

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



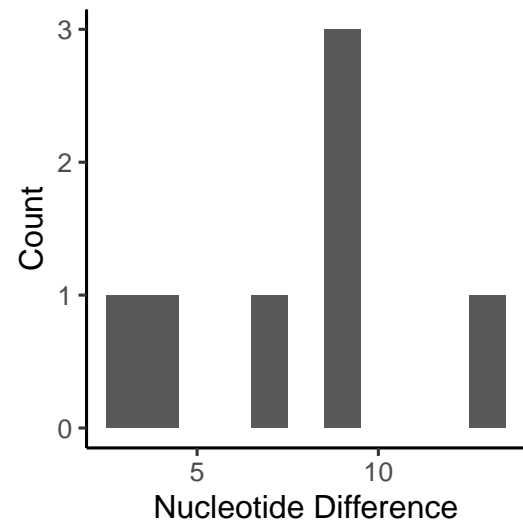
IGHV3-49*03_05

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



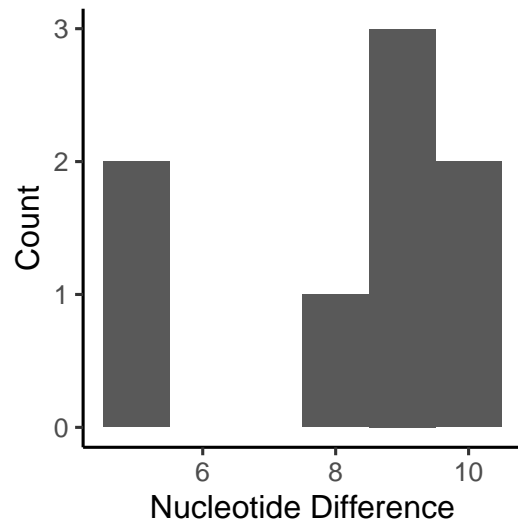
IGHV3-72*01

8 sequences assigned
No exact matches.



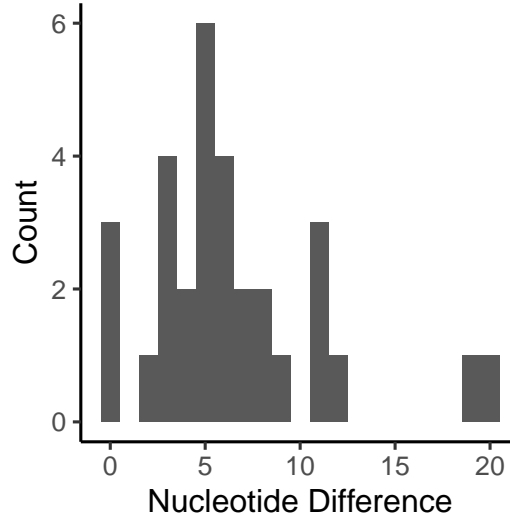
IGHV3-73*01_02

8 sequences assigned
No exact matches.



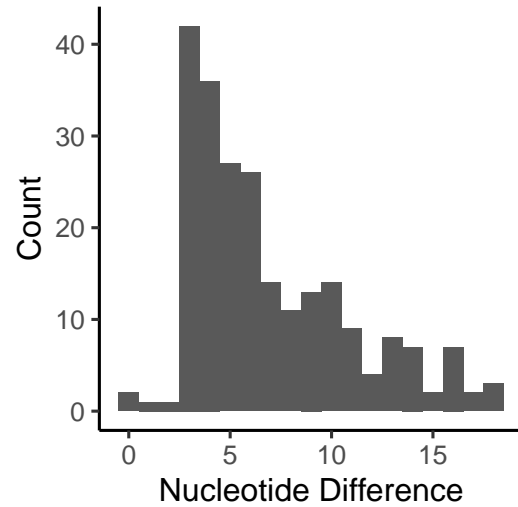
IGHV4-30-4*01

35 sequences assigned
3 (8.6%) exact matches, in which:
2 unique CDR3
2 unique J



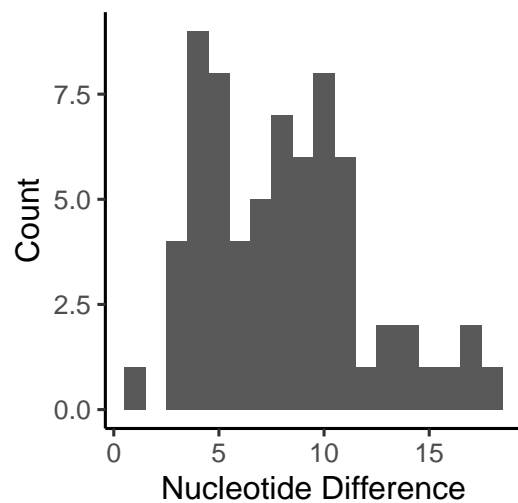
IGHV4-34*01_02

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



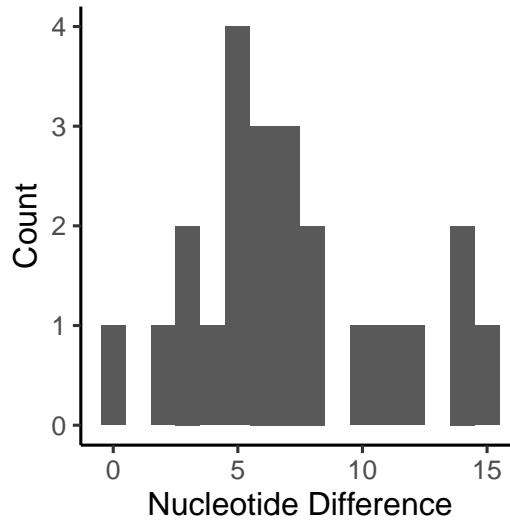
IGHV3-74*01_02

74 sequences assigned
No exact matches.



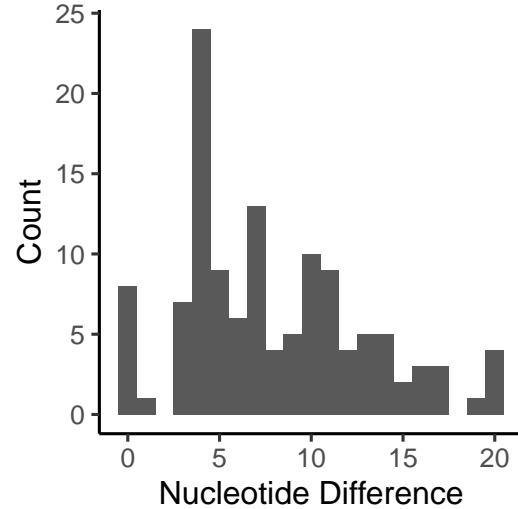
IGHV4-30-2*01

28 sequences assigned
1 (3.6%) exact matches, in which:
1 unique CDR3
1 unique J



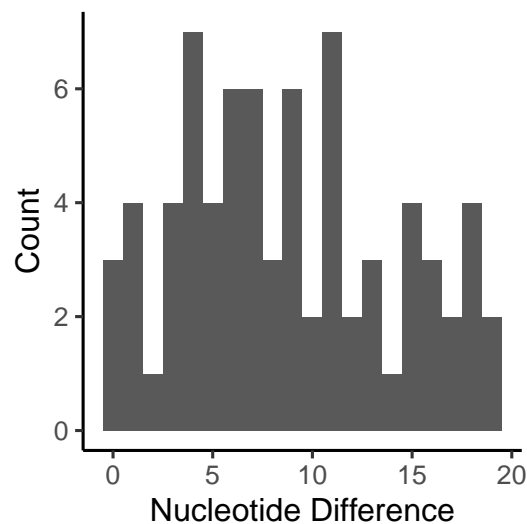
IGHV4-39*01_05

132 sequences assigned
8 (6.1%) exact matches, in which:
6 unique CDR3
3 unique J



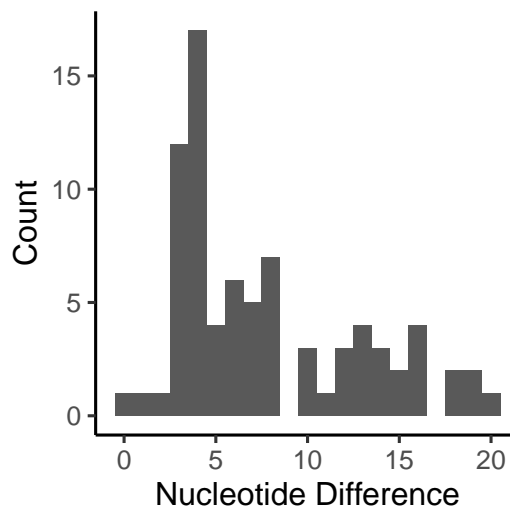
IGHV4-4*07

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



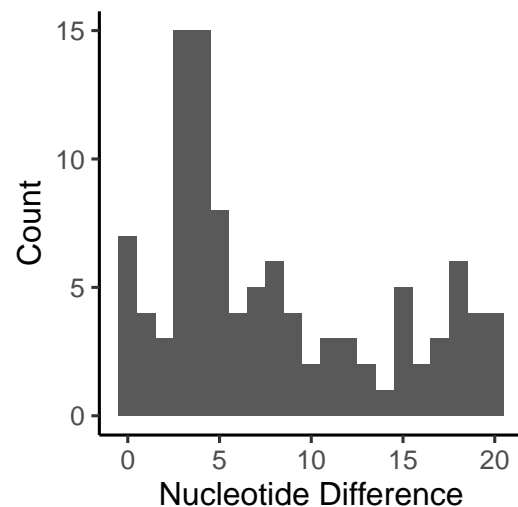
IGHV4-31*03_04

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



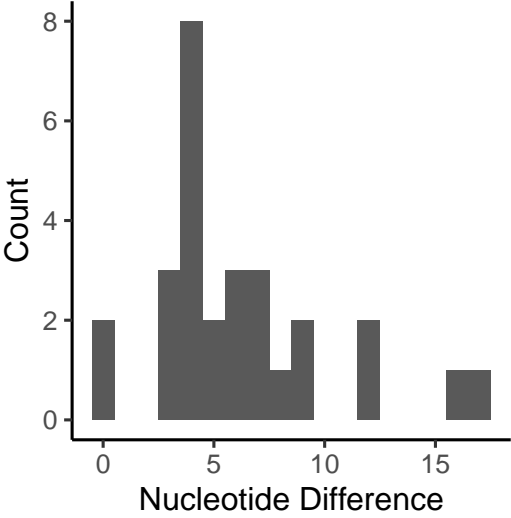
IGHV4-59*01_07

109 sequences assigned
7 (6.4%) exact matches, in which:
6 unique CDR3
3 unique J



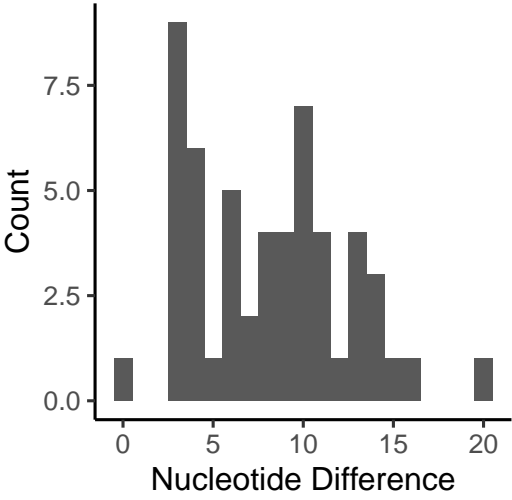
IGHV4-61*01

31 sequences assigned
2 (6.5%) exact matches, in which:
2 unique CDR3
1 unique J



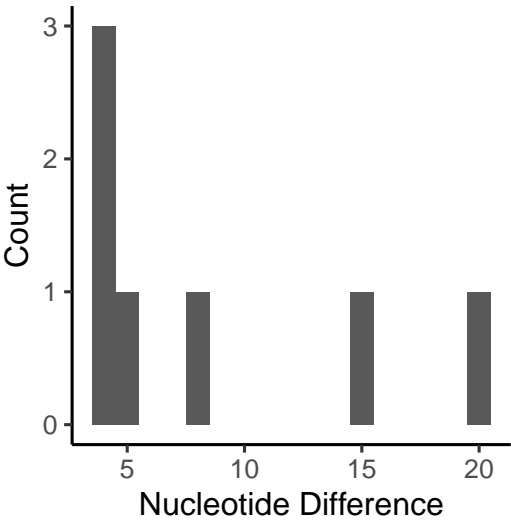
IGHV6-1*01_02

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



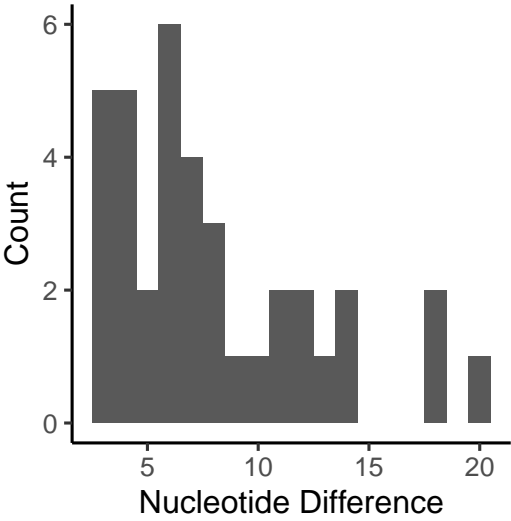
IGHV4-61*08

7 sequences assigned
No exact matches.

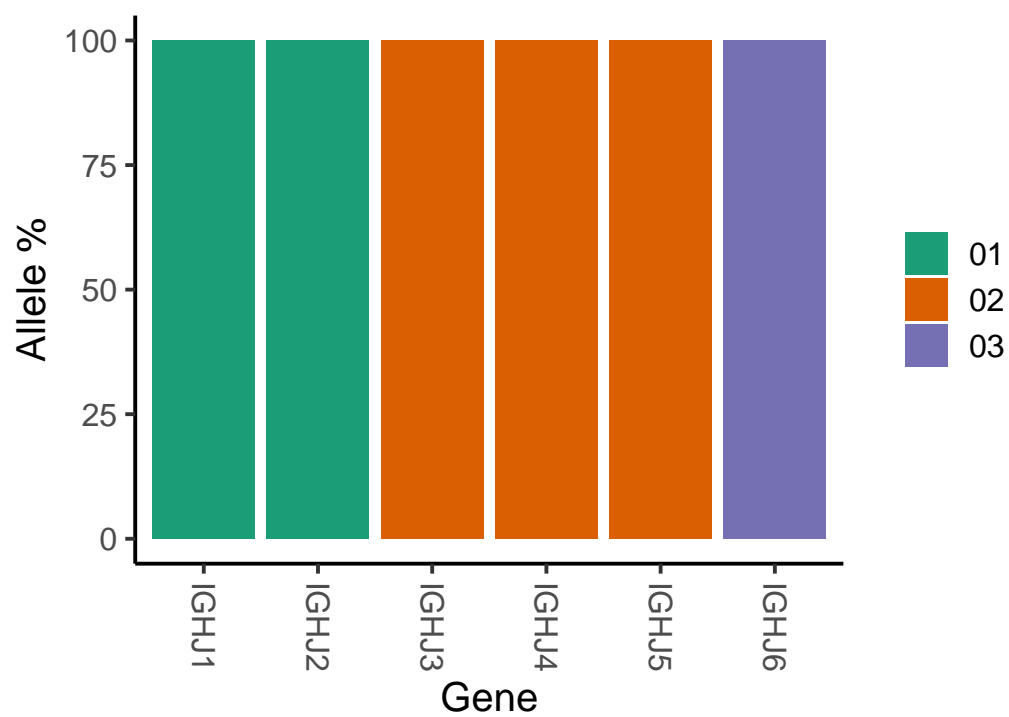


IGHV5-51*01_03

38 sequences assigned
No exact matches.



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)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.

Warning – no inferred sequences found.

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.