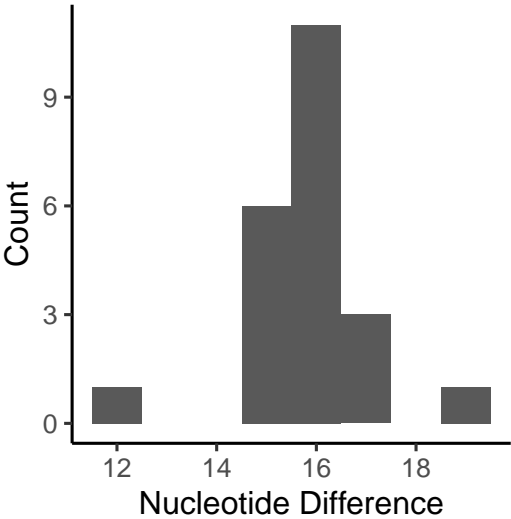


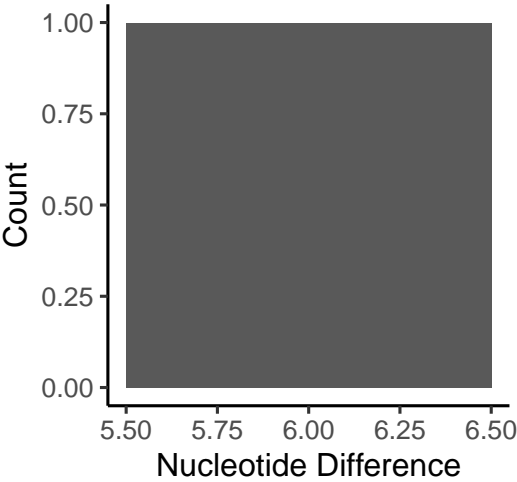
IGHV1-2*02

22 sequences assigned
No exact matches.



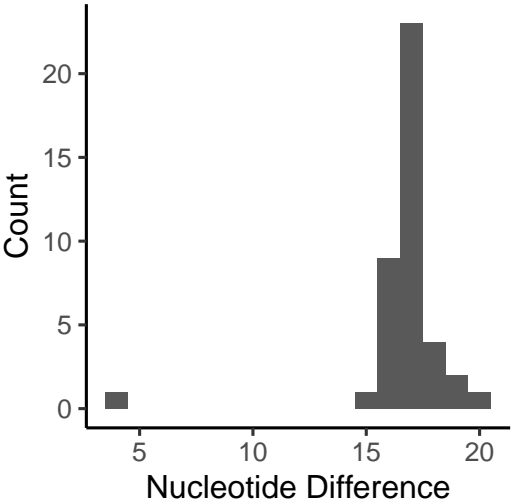
IGHV1-8*02

1 sequences assigned
No exact matches.



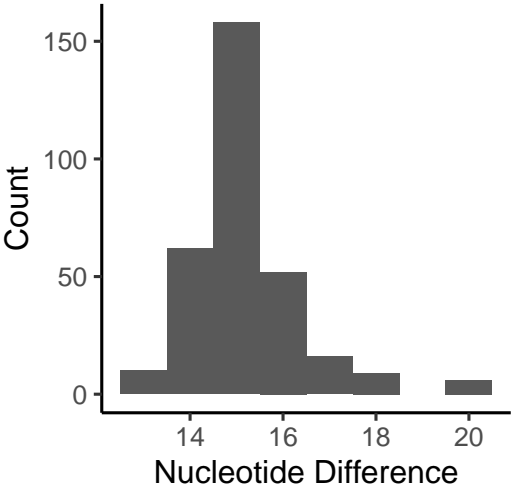
IGHV1-46*01

42 sequences assigned
No exact matches.



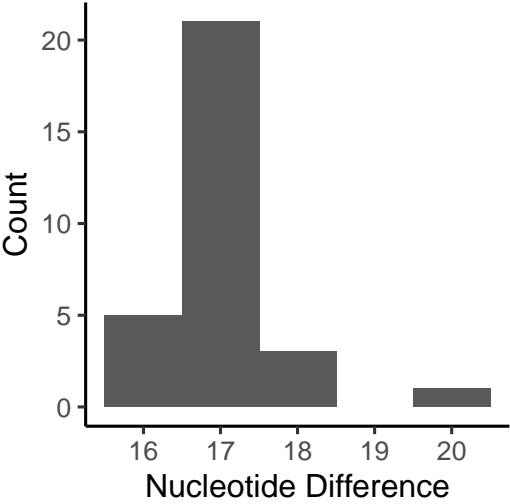
IGHV1-2*04

313 sequences assigned
No exact matches.



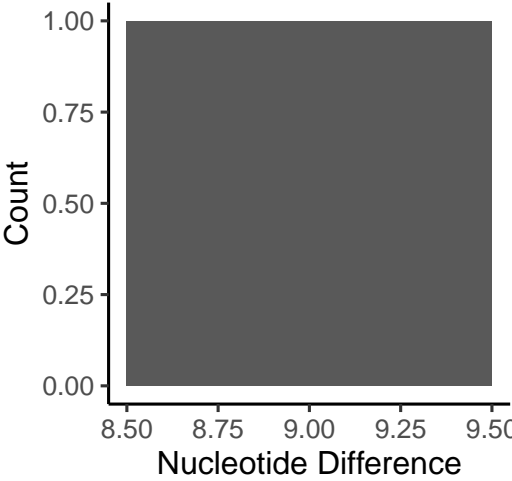
IGHV1-18*01

32 sequences assigned
No exact matches.



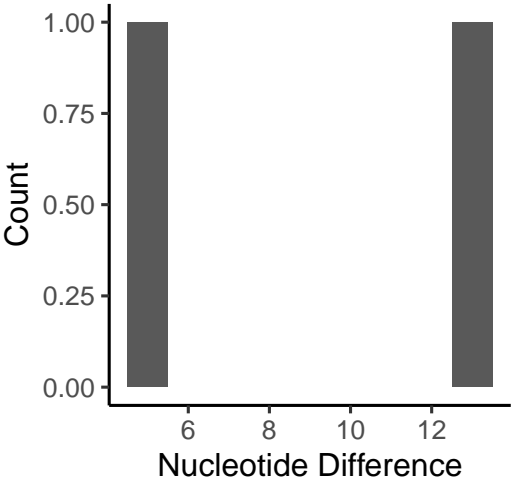
IGHV1-46*02

1 sequences assigned
No exact matches.



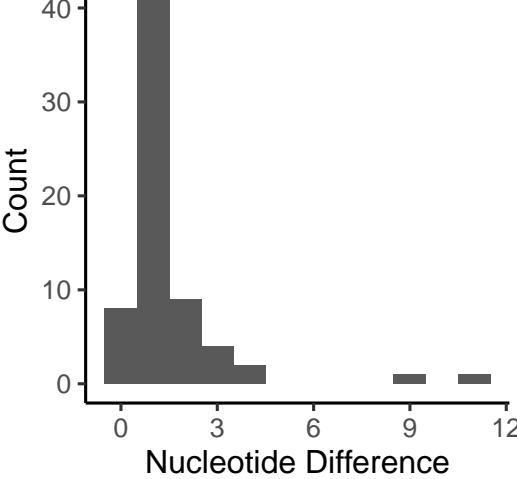
IGHV1-8*01

2 sequences assigned
No exact matches.



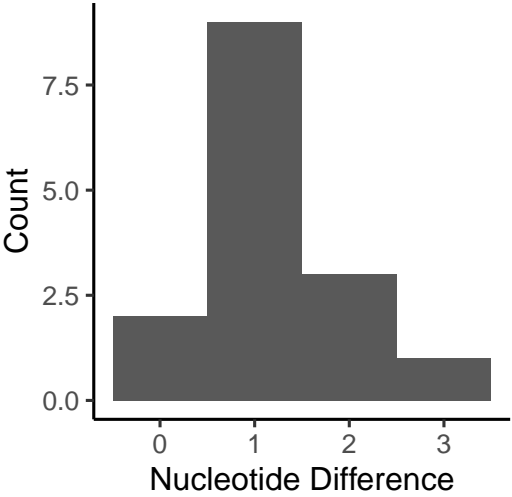
IGHV1-18*04

66 sequences assigned
8 (12.1%) exact matches, in which:
4 unique CDR3
1 unique J



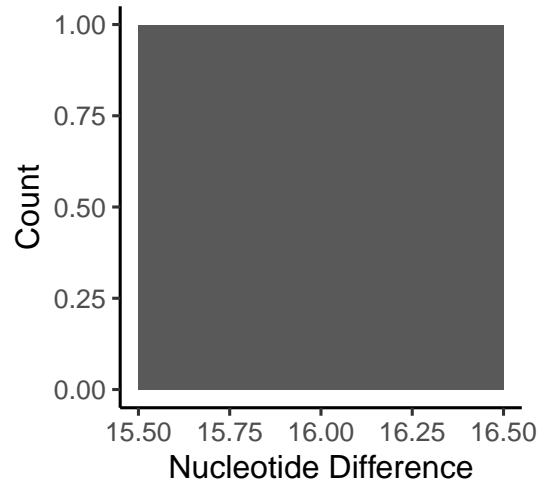
IGHV1-46*03

18 sequences assigned
2 (11.1%) exact matches, in which:
1 unique CDR3
1 unique J



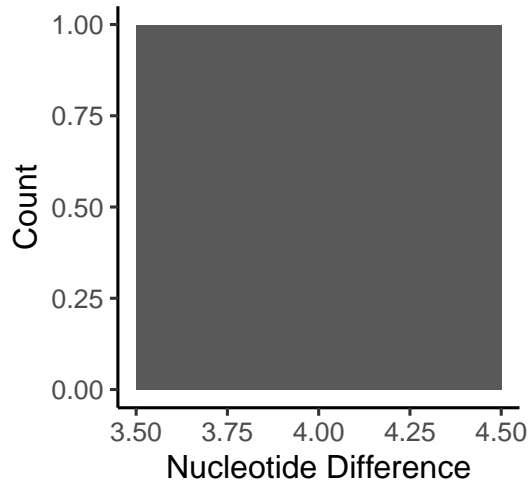
IGHV1-69*04_09

1 sequences assigned
No exact matches.



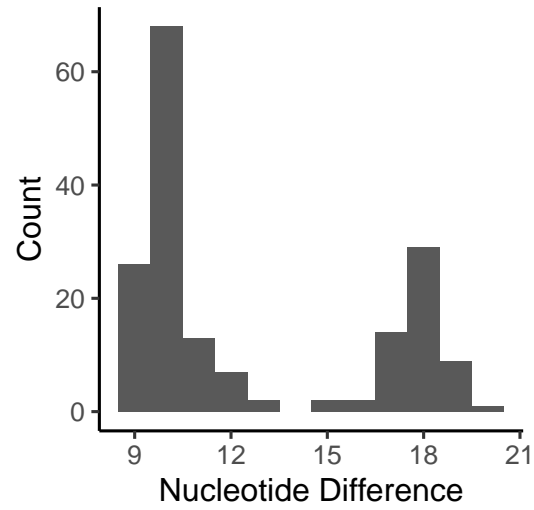
IGHV2-70*01

1 sequences assigned
No exact matches.



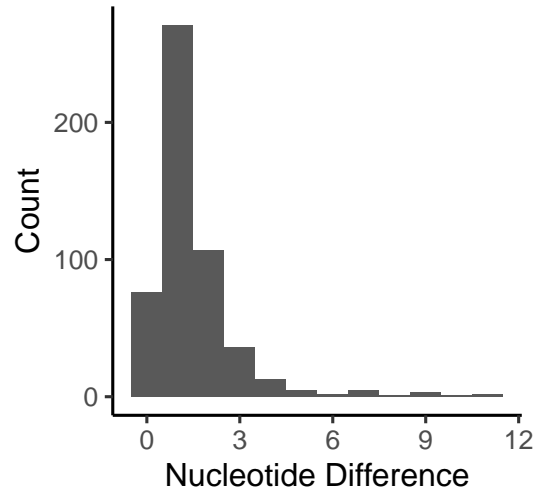
IGHV3-9*01

180 sequences assigned
No exact matches.



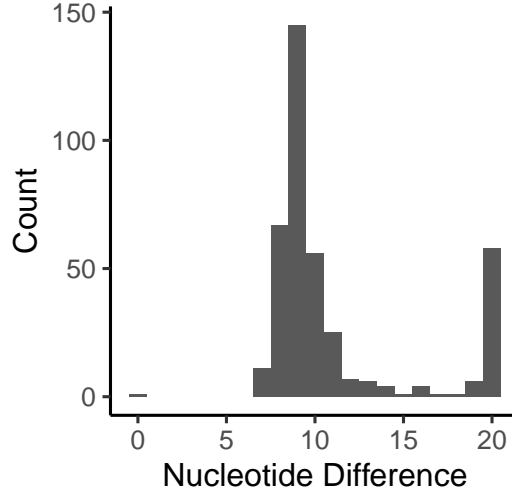
IGHV2-5*01

522 sequences assigned
76 (14.6%) exact matches, in which:
48 unique CDR3
1 unique J



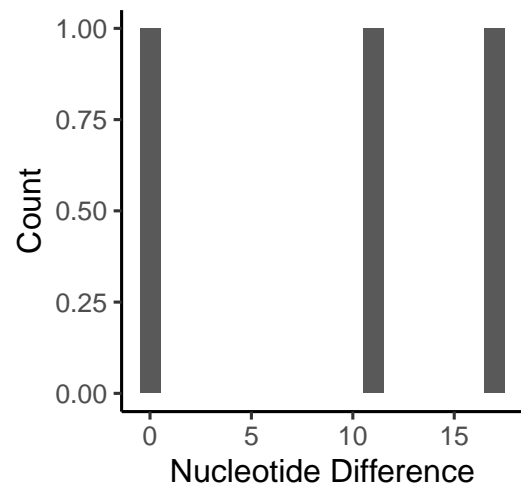
IGHV3-7*01

740 sequences assigned
1 (0.1%) exact matches, in which:
1 unique CDR3
1 unique J



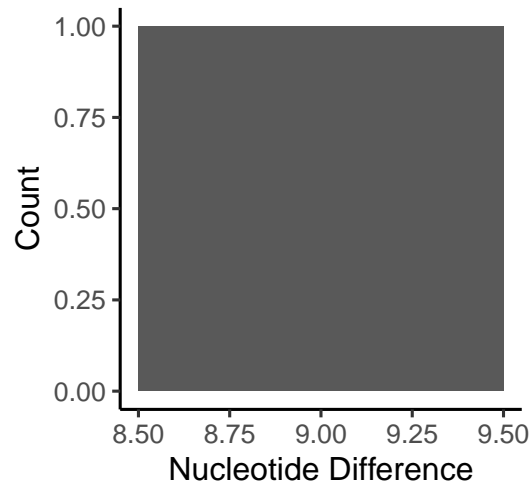
IGHV3-11*01

3 sequences assigned
1 (33.3%) exact matches, in which:
1 unique CDR3
1 unique J



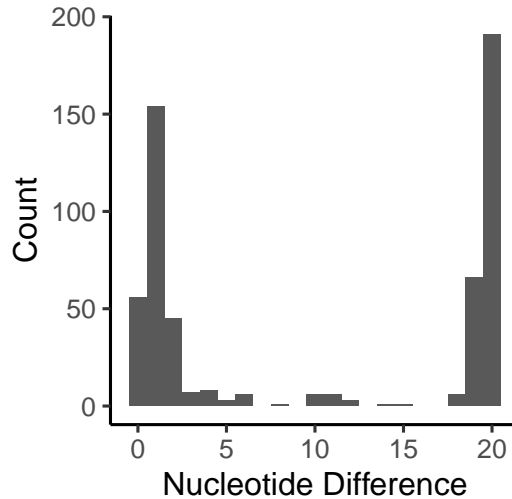
IGHV2-26*01

1 sequences assigned
No exact matches.



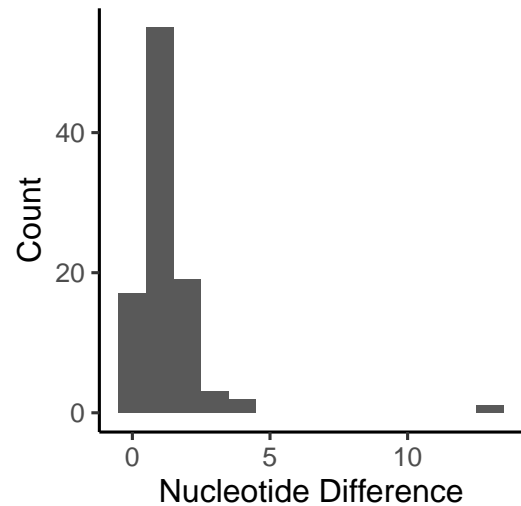
IGHV3-7*03

674 sequences assigned
56 (8.3%) exact matches, in which:
39 unique CDR3
2 unique J



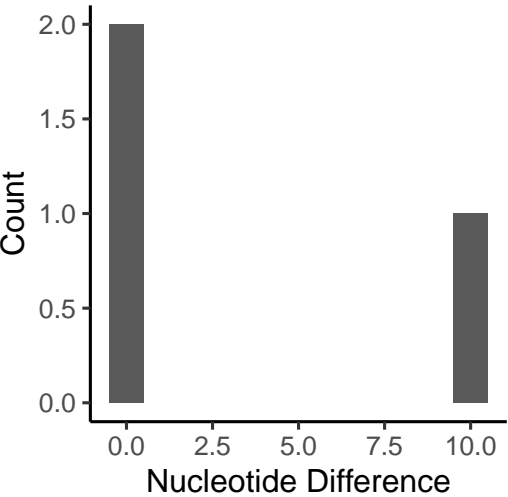
IGHV3-11*04

97 sequences assigned
17 (17.5%) exact matches, in which:
11 unique CDR3
2 unique J



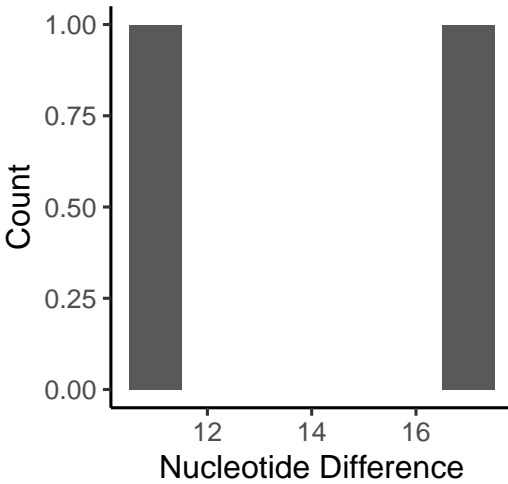
IGHV3-11*06

3 sequences assigned
2 (66.7%) exact matches, in which:
2 unique CDR3
1 unique J



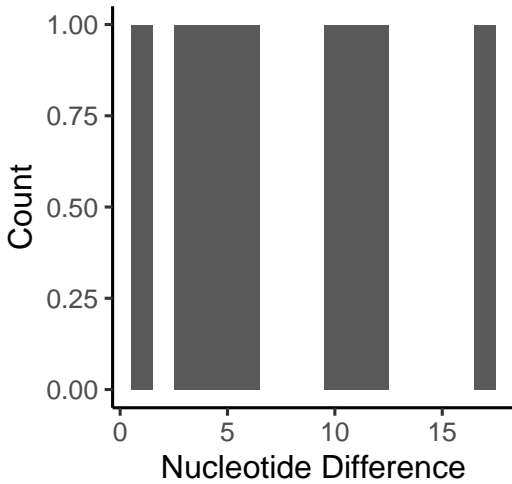
IGHV3-13*05

2 sequences assigned
No exact matches.



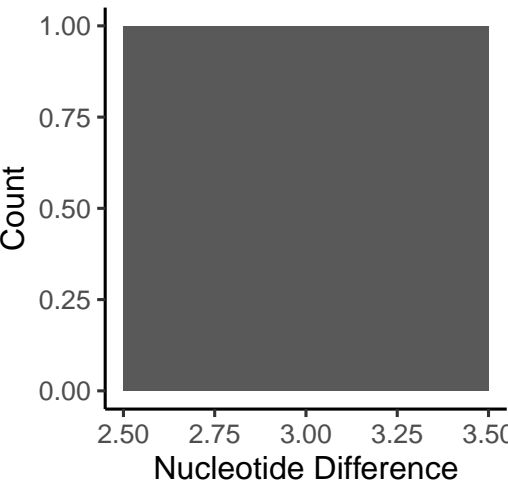
IGHV3-21*01_02

9 sequences assigned
No exact matches.



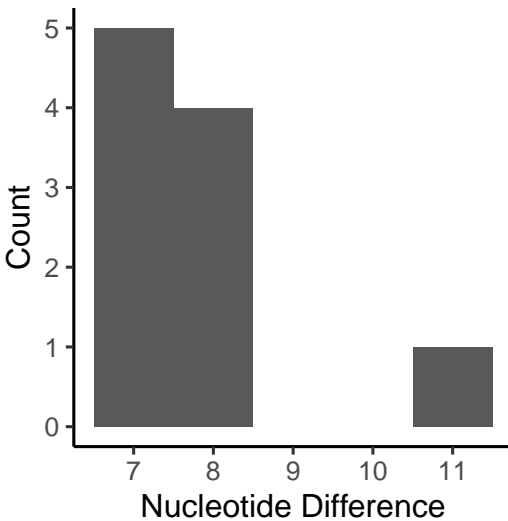
IGHV3-11*03_05

1 sequences assigned
No exact matches.



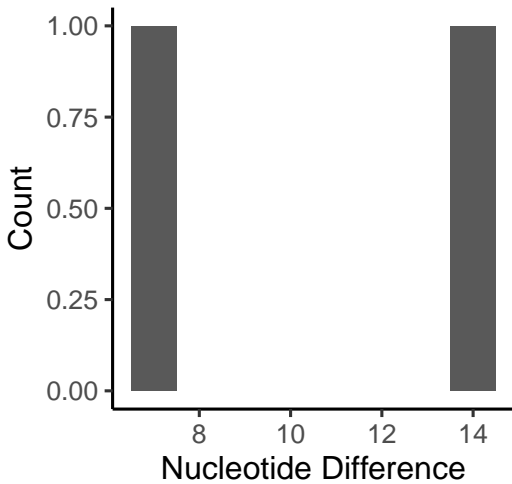
IGHV3-15*05

15 sequences assigned
No exact matches.



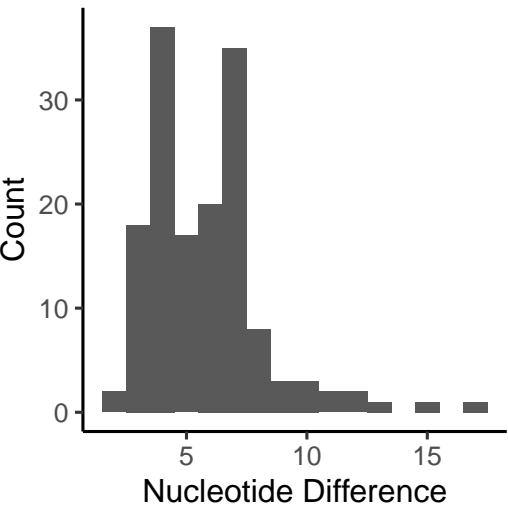
IGHV3-30-3*01

2 sequences assigned
No exact matches.



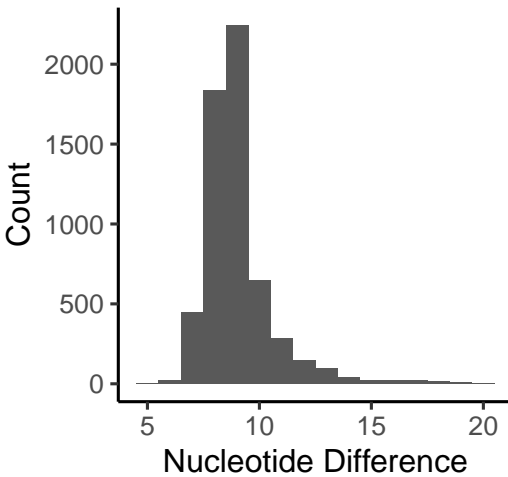
IGHV3-13*01

150 sequences assigned
No exact matches.



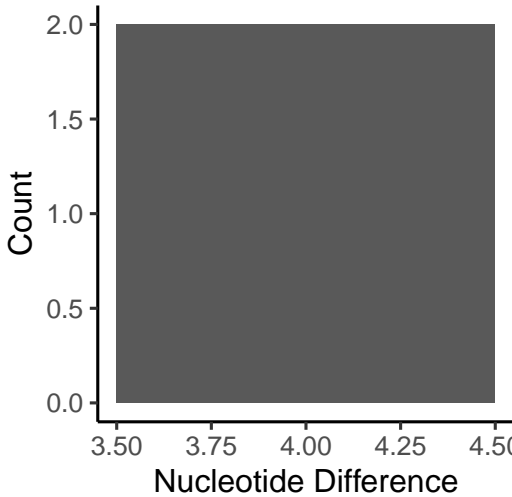
IGHV3-15*01_02

5883 sequences assigned
No exact matches.



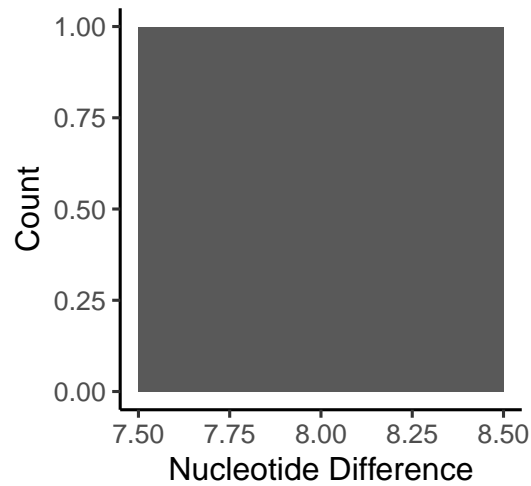
IGHV3-33*01

2 sequences assigned
No exact matches.



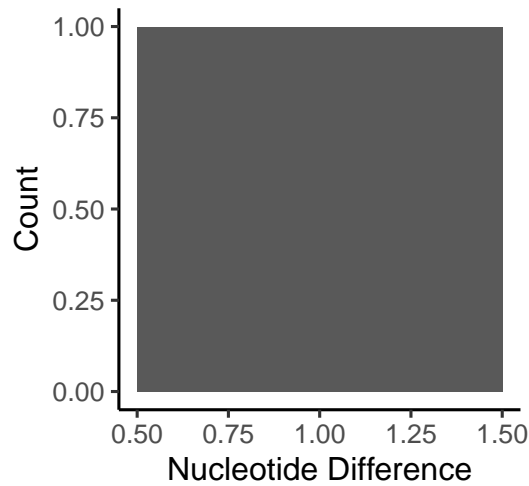
IGHV3-33*05

1 sequences assigned
No exact matches.



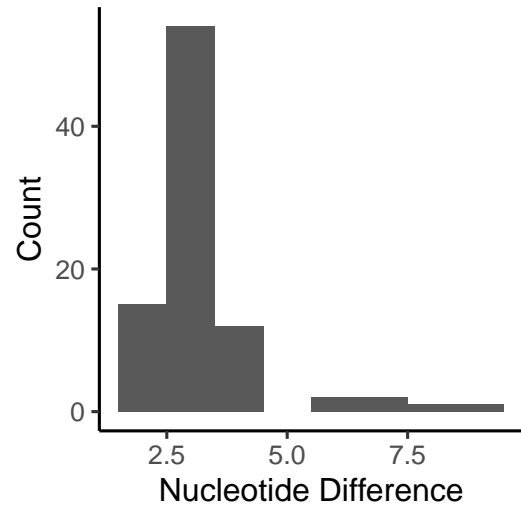
IGHV3-48*04

1 sequences assigned
No exact matches.



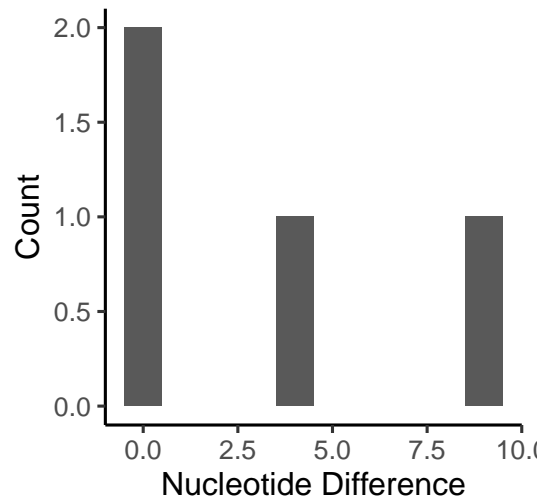
IGHV3-66*01

88 sequences assigned
No exact matches.



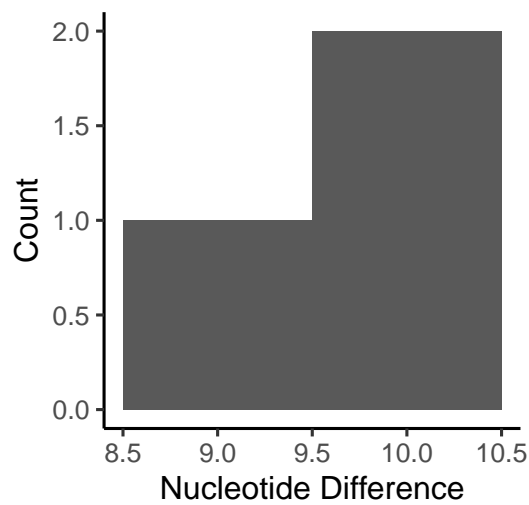
IGHV3-48*02

20 sequences assigned
2 (10%) exact matches, in which:
1 unique CDR3
1 unique J



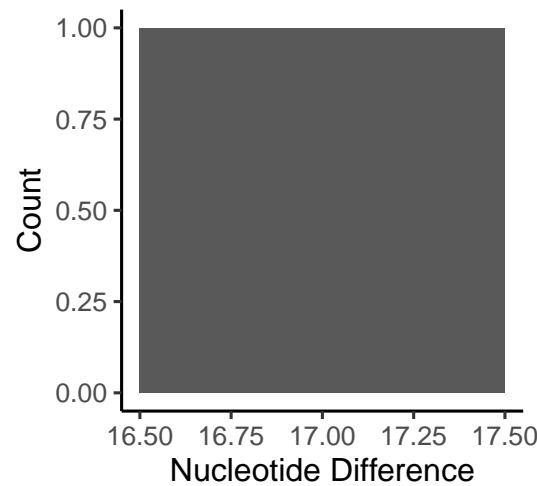
IGHV3-49*04

3 sequences assigned
No exact matches.



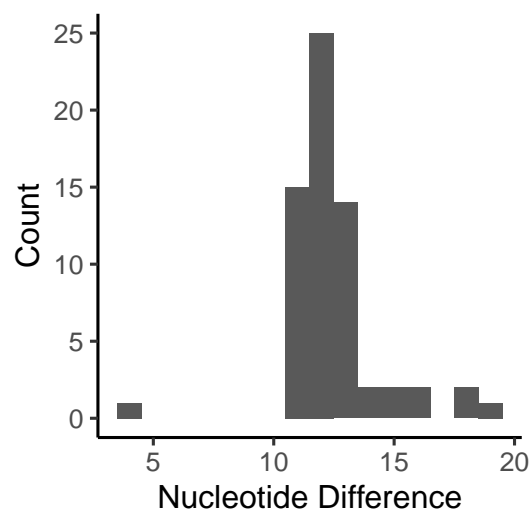
IGHV3-72*01

1 sequences assigned
No exact matches.



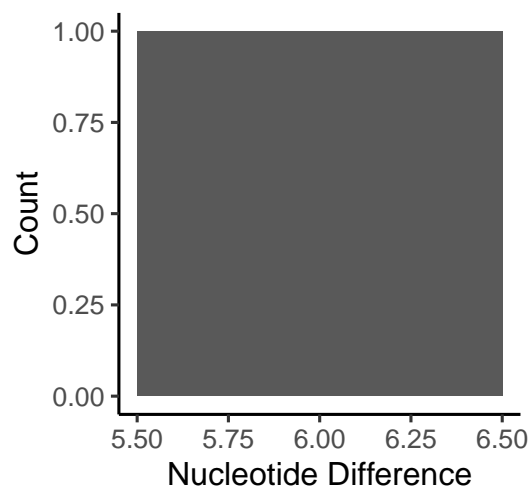
IGHV3-48*03

64 sequences assigned
No exact matches.



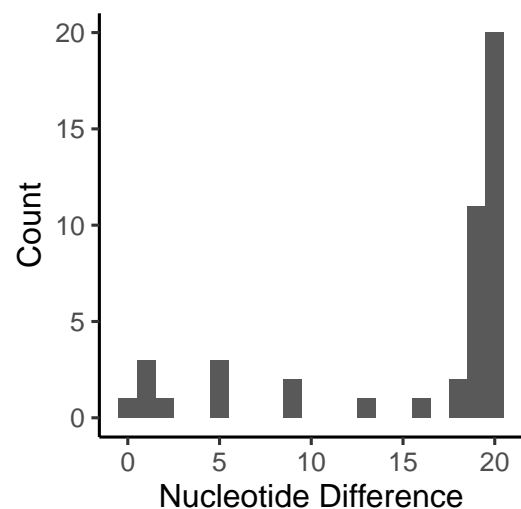
IGHV3-49*03_05

1 sequences assigned
No exact matches.



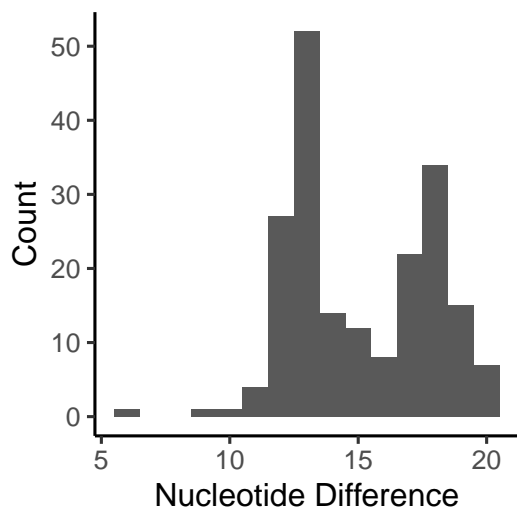
IGHV3-74*01_02

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



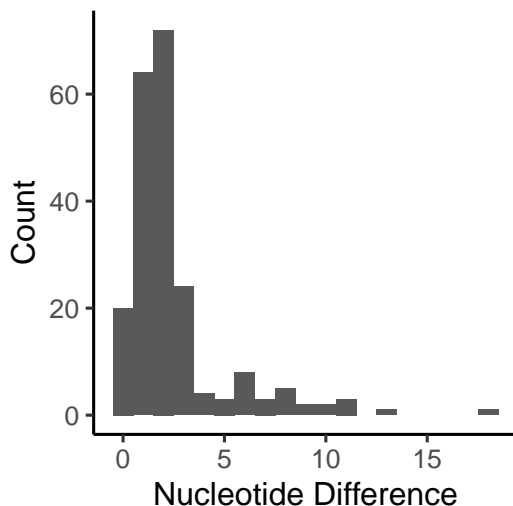
IGHV4-4*07

206 sequences assigned
No exact matches.



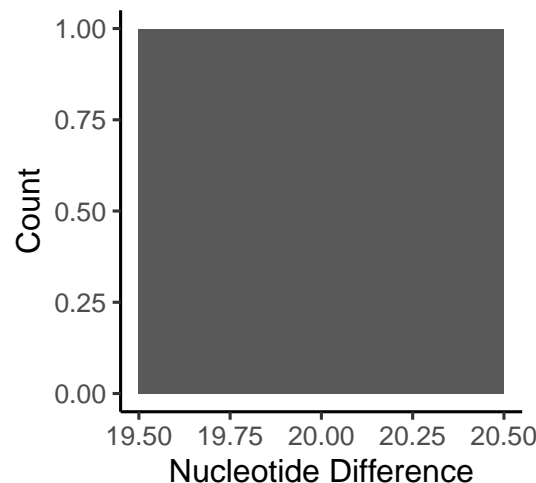
IGHV4-34*01_02

212 sequences assigned
20 (9.4%) exact matches, in which:
13 unique CDR3
2 unique J



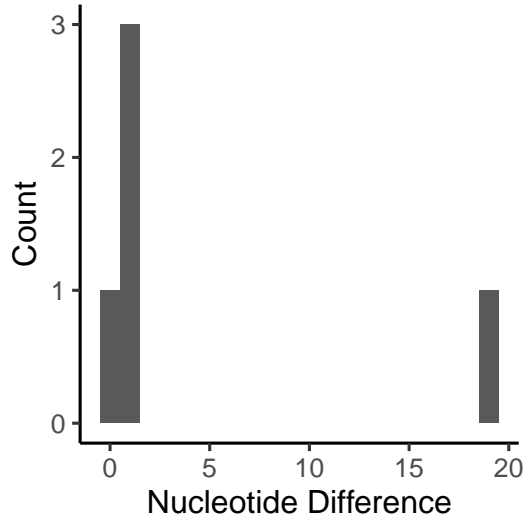
IGHV4-55*02_04_08

2 sequences assigned
No exact matches.



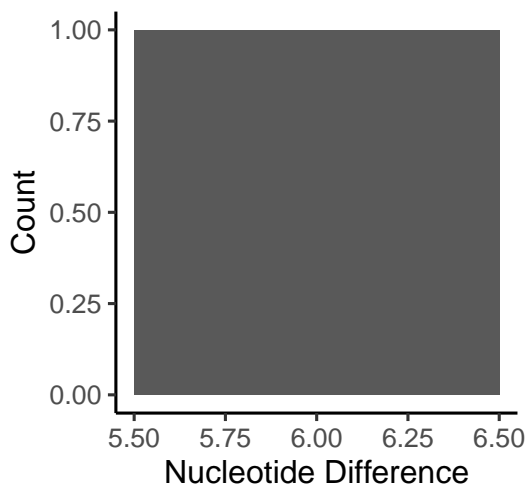
IGHV4-31*02

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



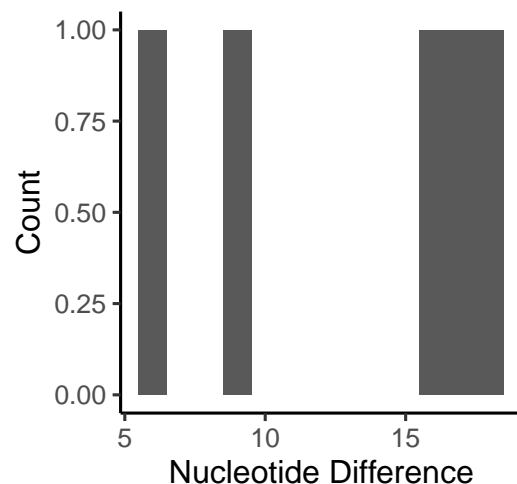
IGHV4-39*07

3 sequences assigned
No exact matches.



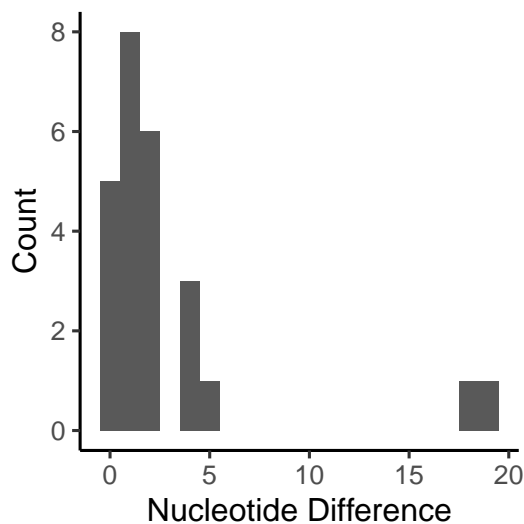
IGHV4-59*08

6 sequences assigned
No exact matches.



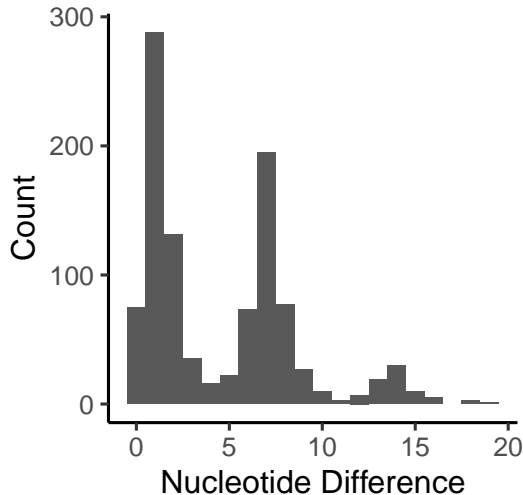
IGHV4-31*03_04

28 sequences assigned
5 (17.9%) exact matches, in which:
4 unique CDR3
2 unique J



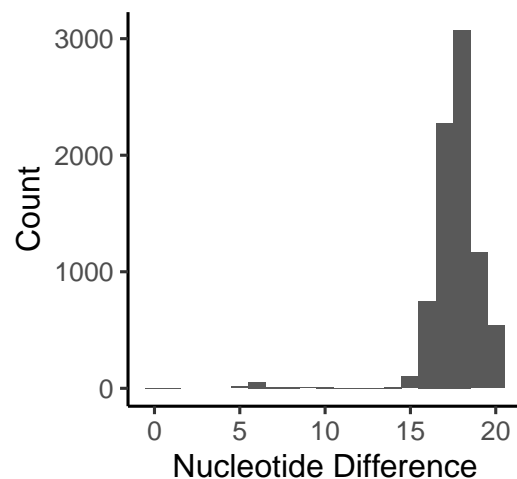
IGHV4-39*01_05

1082 sequences assigned
75 (6.9%) exact matches, in which:
37 unique CDR3
1 unique J



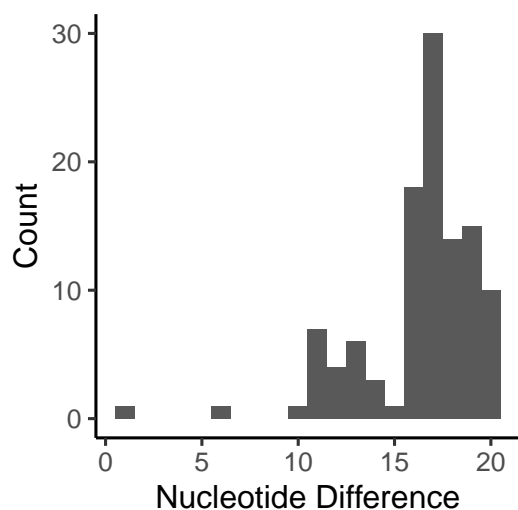
IGHV4-59*01_07

8777 sequences assigned
1 (0%) exact matches, in which:
1 unique CDR3
1 unique J



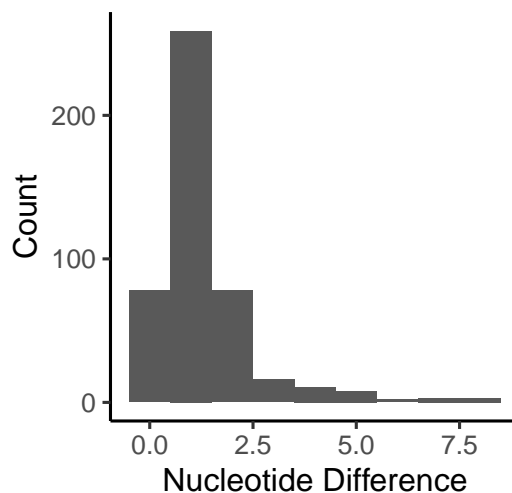
IGHV4-59*12

123 sequences assigned
No exact matches.



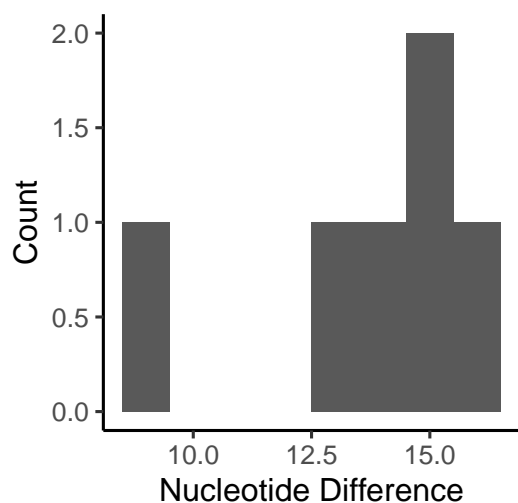
IGHV5-51*01_03

459 sequences assigned
78 (17%) exact matches, in which:
39 unique CDR3
1 unique J



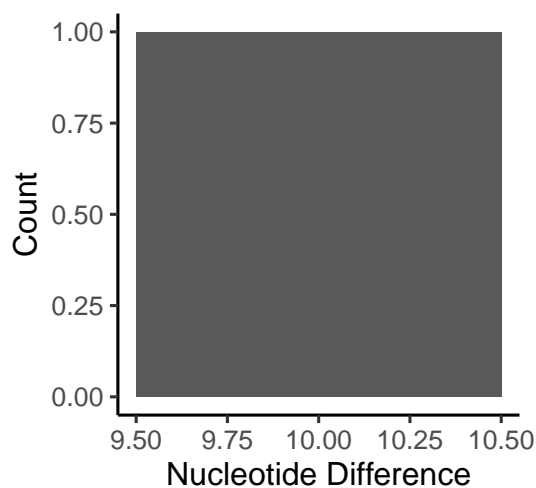
IGHV4-61*08

9 sequences assigned
No exact matches.



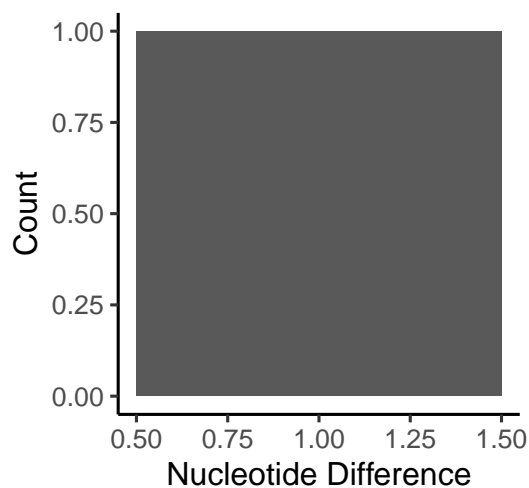
IGHV6-1*01_02

1 sequences assigned
No exact matches.



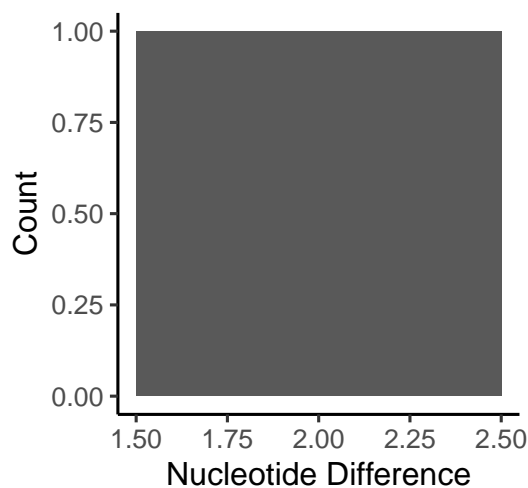
IGHV5-10-1*01_03

2 sequences assigned
No exact matches.

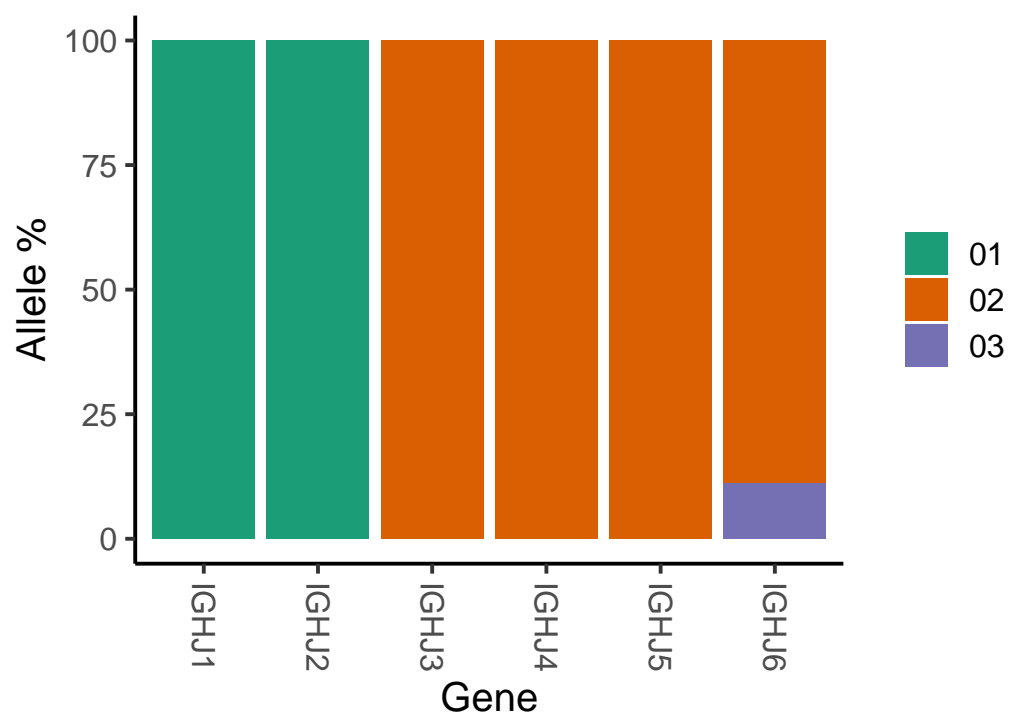


IGHV7-4-1*02

1 sequences assigned
No exact matches.



Allele Usage



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)IGHV5-51*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)IGHV7-4-1*02_T63C are not listed in the genotype and will be ignored.

Novel sequence(s)IGHV7-4-1*02_T63C are not listed in the genotype and will be ignored.

Warning – no inferred sequences found.

Warning:IGHV4-31*02,IGHV4-31*03_04 have identical germline sequences.

Warning – no inferred sequences found.

Warning – no inferred sequences found.

Warning:IGHV4-31*02,IGHV4-31*03_04 have identical germline sequences.