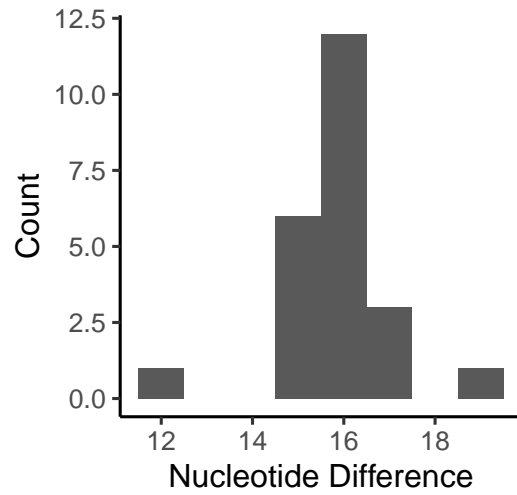


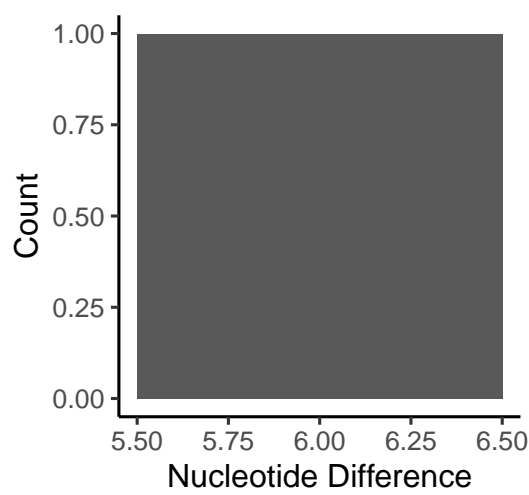
IGHV1-2*02

23 sequences assigned
No exact matches.



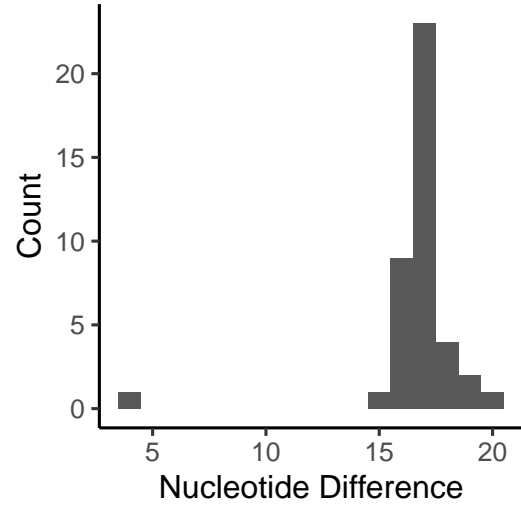
IGHV1-8*02

1 sequences assigned
No exact matches.



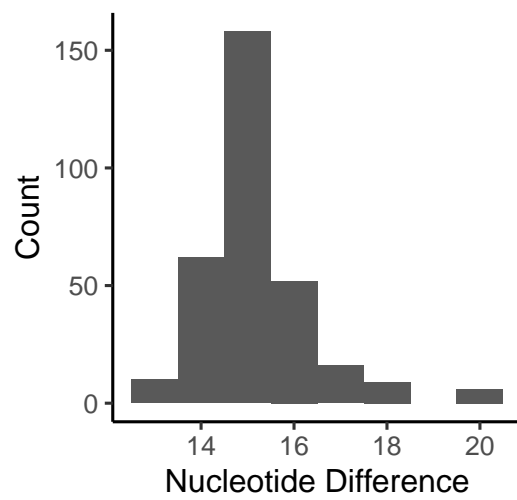
IGHV1-46*01

42 sequences assigned
No exact matches.



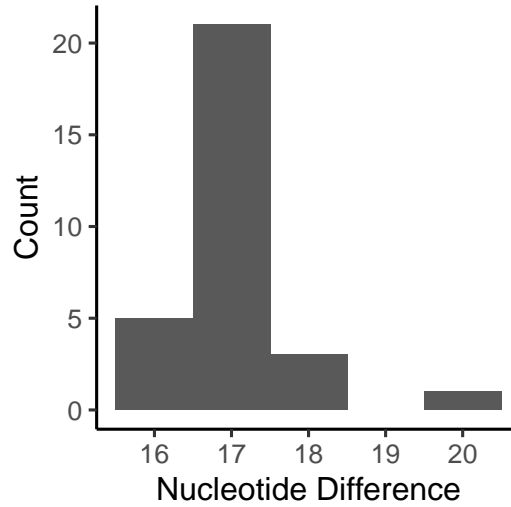
IGHV1-2*04

313 sequences assigned
No exact matches.



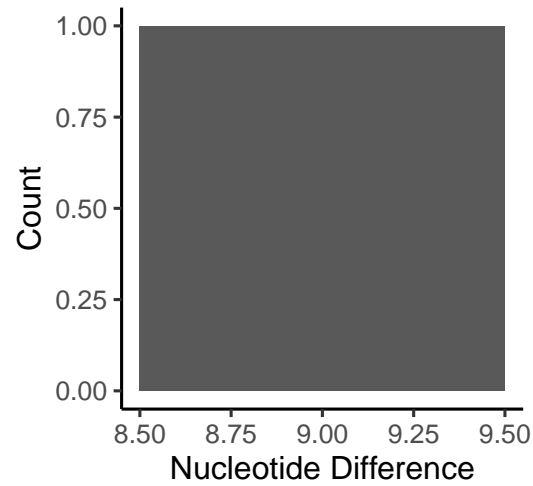
IGHV1-18*01

32 sequences assigned
No exact matches.



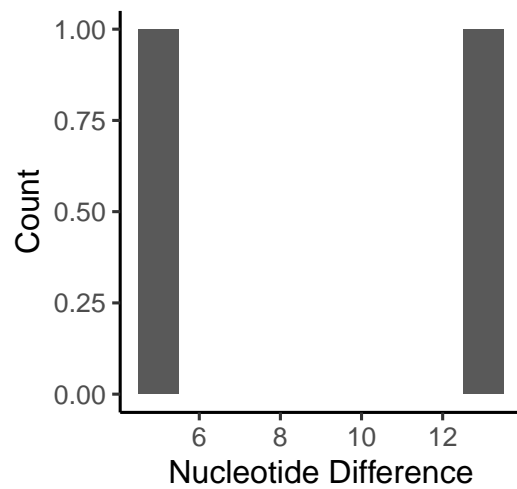
IGHV1-46*02

1 sequences assigned
No exact matches.



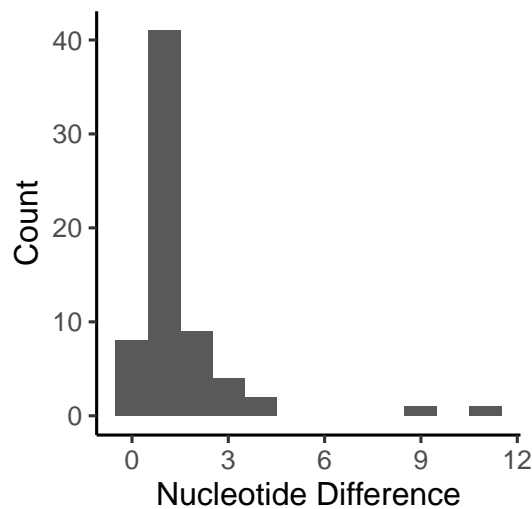
IGHV1-8*01

2 sequences assigned
No exact matches.



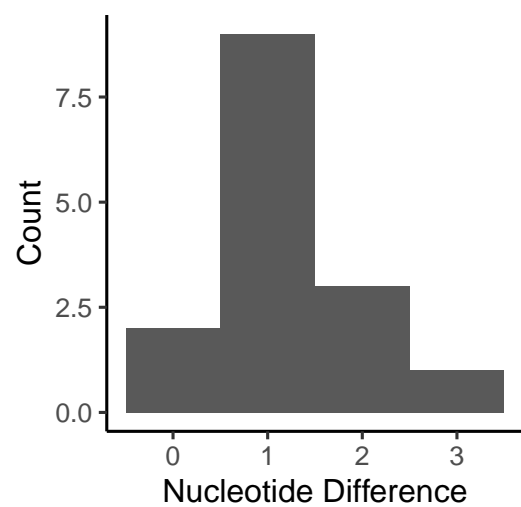
IGHV1-18*04

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



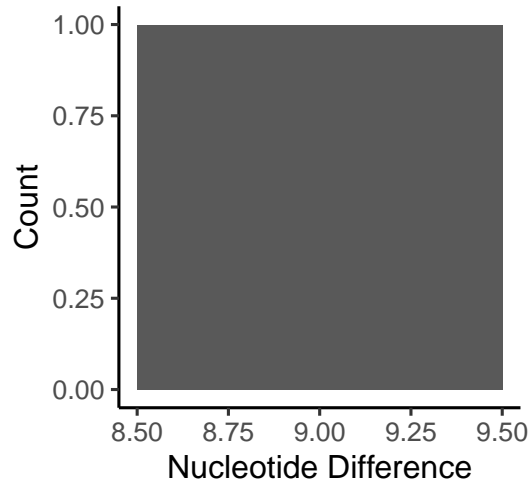
IGHV1-69*01_12_13

2 sequences assigned
1 (50%) exact matches, in which:
1 unique CDR3
1 unique J



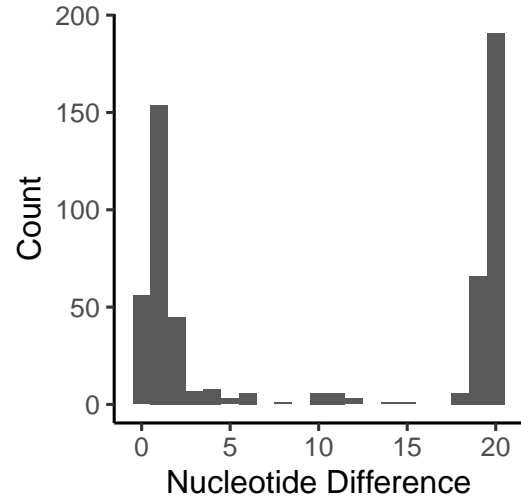
IGHV2-26*01

1 sequences assigned
No exact matches.



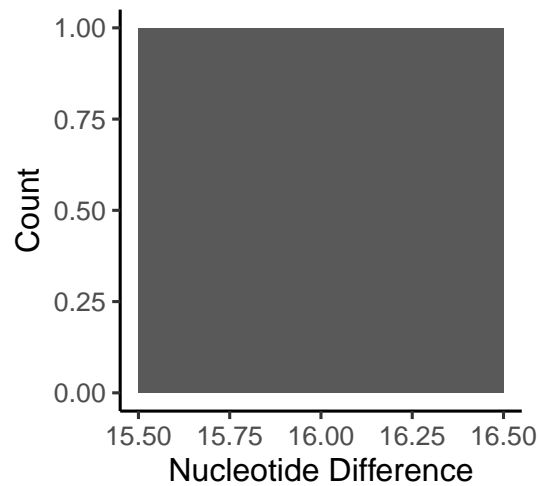
IGHV3-7*03

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



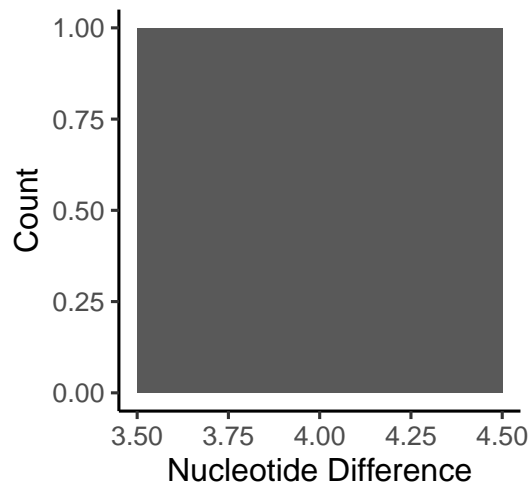
IGHV1-69*04_09

1 sequences assigned
No exact matches.



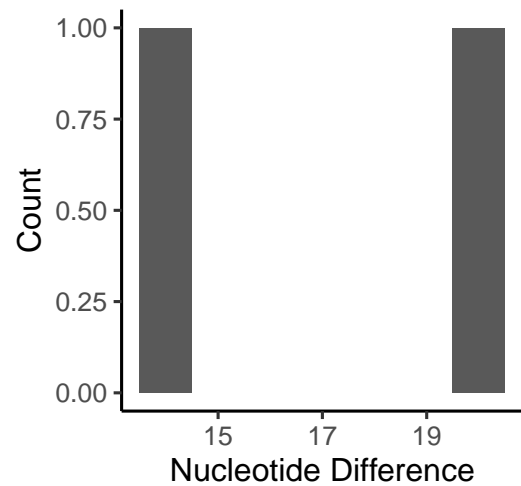
IGHV2-70*01

1 sequences assigned
No exact matches.



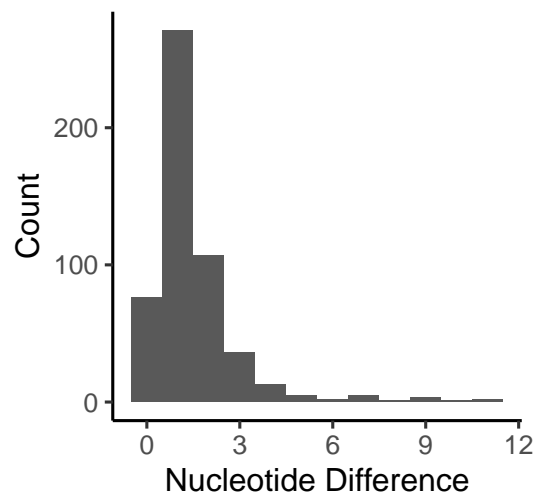
IGHV3-7*04

2 sequences assigned
No exact matches.



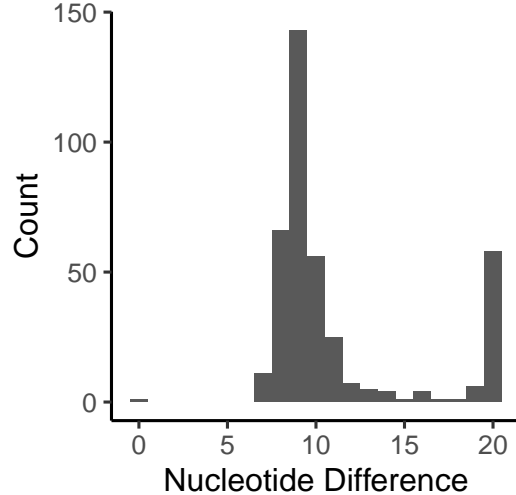
IGHV2-5*01

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



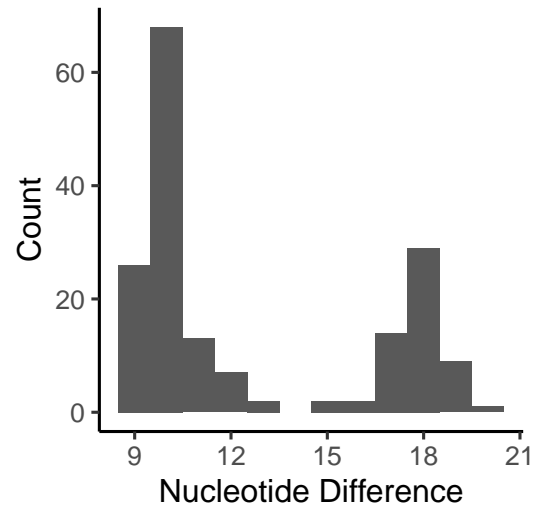
IGHV3-7*01

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



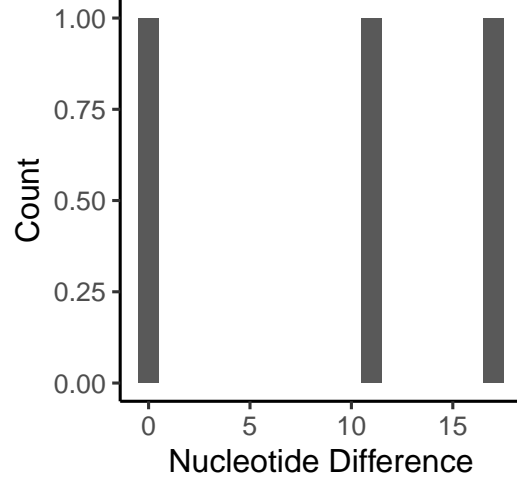
IGHV3-9*01

180 sequences assigned
No exact matches.



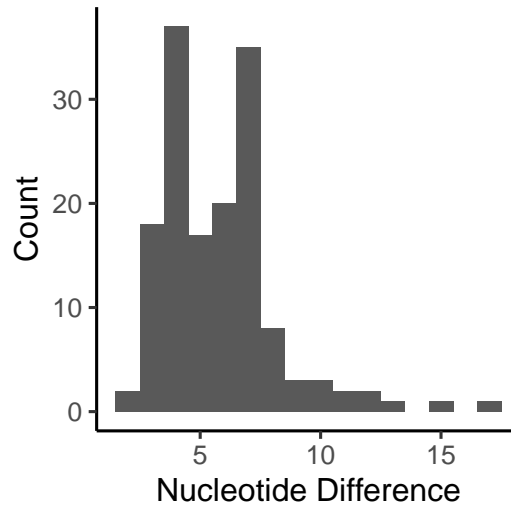
IGHV3-11*01

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



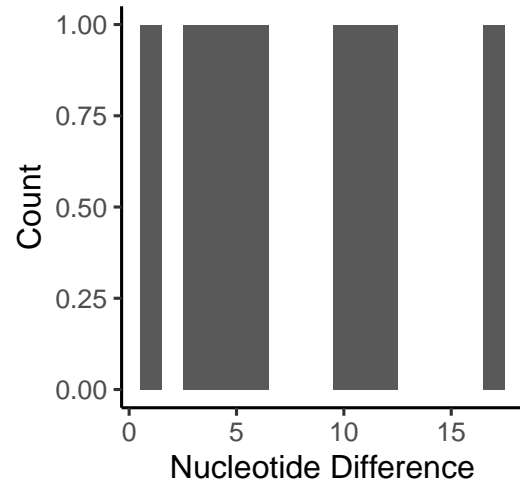
IGHV3-13*01

150 sequences assigned
No exact matches.



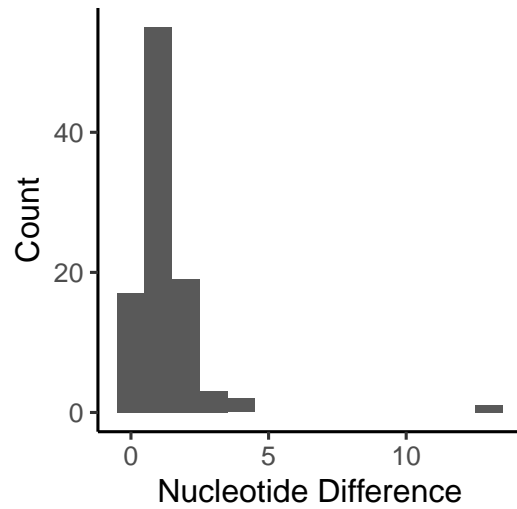
IGHV3-21*01_02

9 sequences assigned
No exact matches.



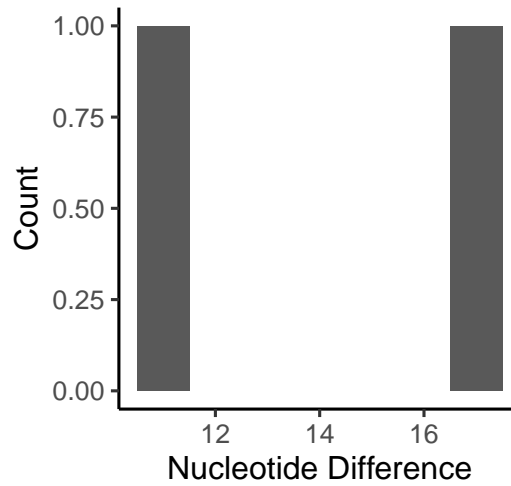
IGHV3-11*04

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



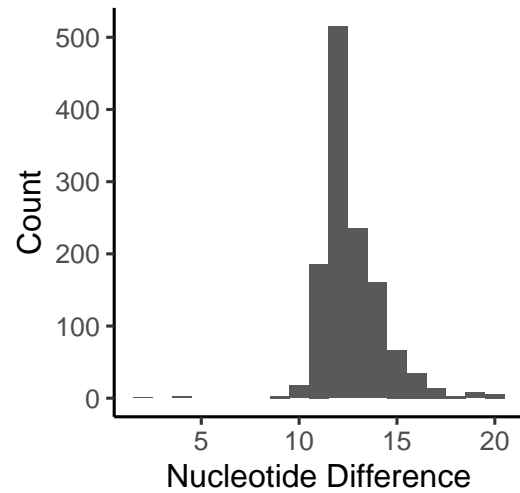
IGHV3-13*05

2 sequences assigned
No exact matches.



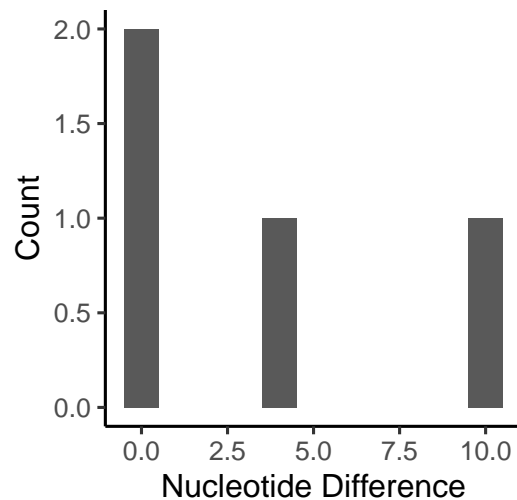
IGHV3-23*01_04

1303 sequences assigned
No exact matches.



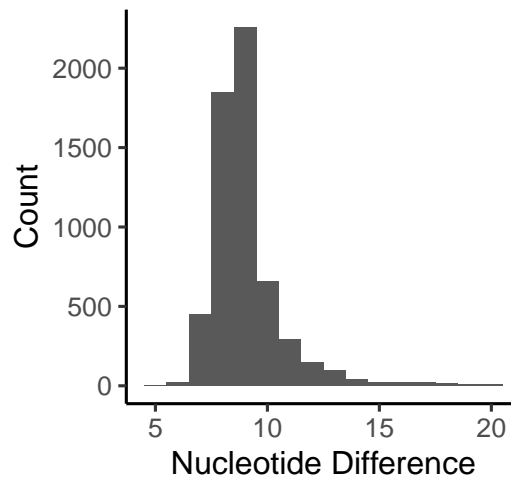
IGHV3-11*06

4 sequences assigned
2 (50%) exact matches, in which:
2 unique CDR3
1 unique J



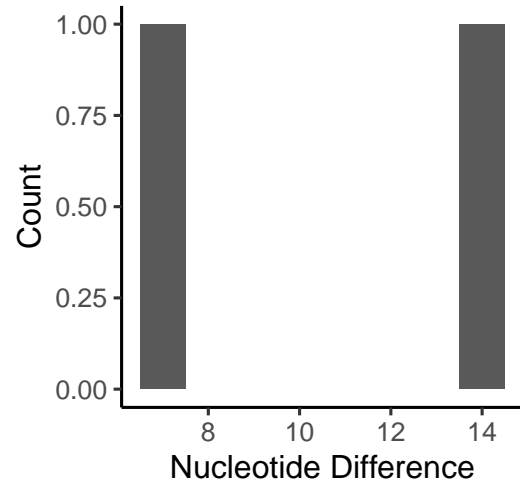
IGHV3-15*01_02

5932 sequences assigned
No exact matches.



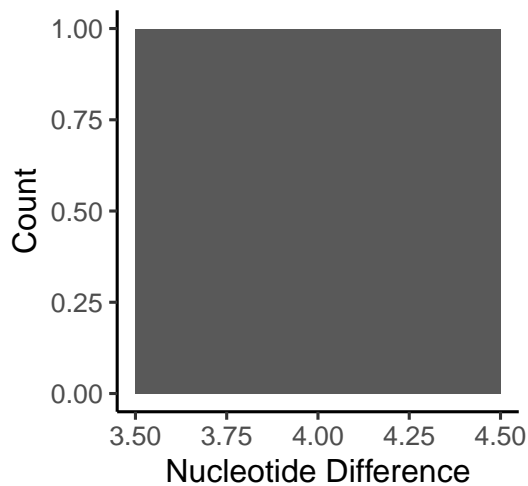
IGHV3-30-3*01

2 sequences assigned
No exact matches.



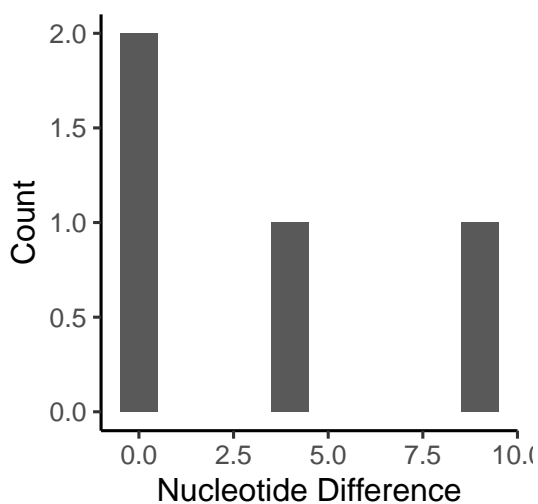
IGHV3–33*01

1 sequences assigned
No exact matches.



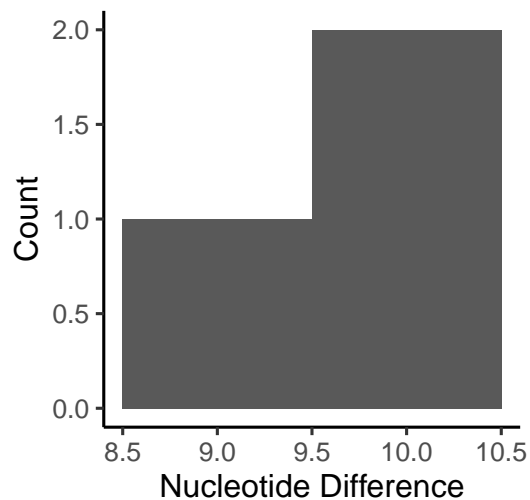
IGHV3–48*02

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



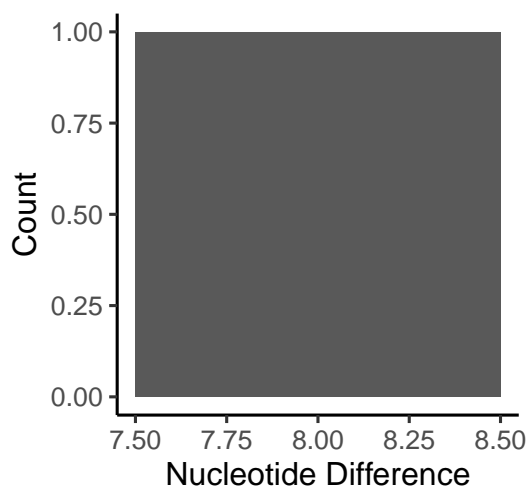
IGHV3–49*04

3 sequences assigned
No exact matches.



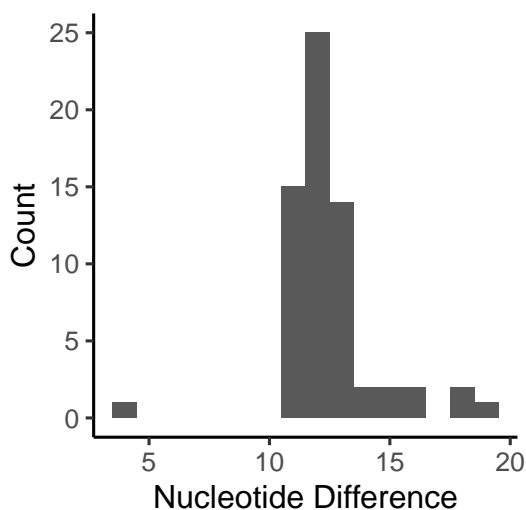
IGHV3–33*05

1 sequences assigned
No exact matches.



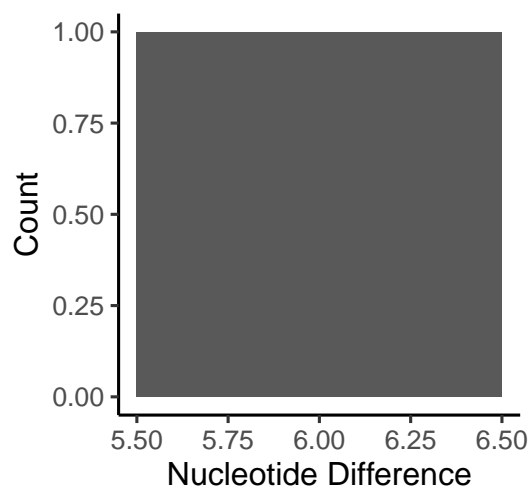
IGHV3–48*03

64 sequences assigned
No exact matches.



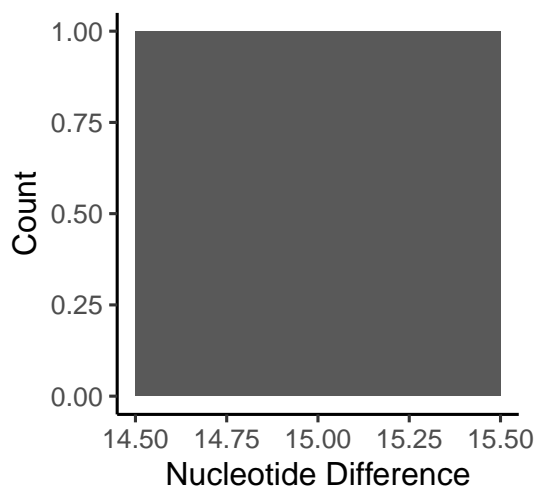
IGHV3–49*03_05

1 sequences assigned
No exact matches.



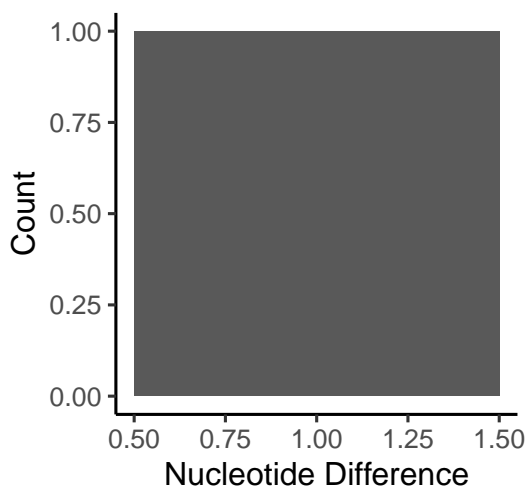
IGHV3–33*08

2 sequences assigned
No exact matches.



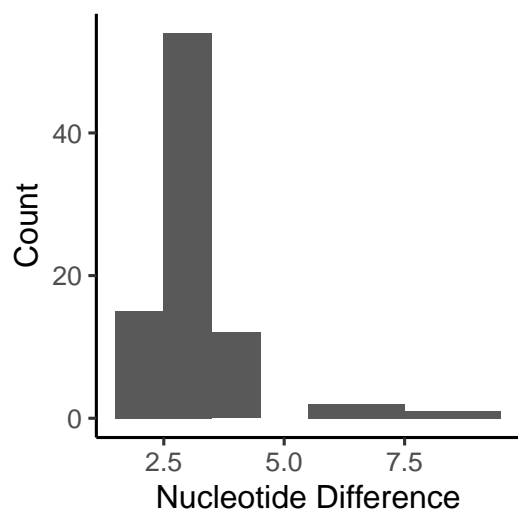
IGHV3–48*04

1 sequences assigned
No exact matches.



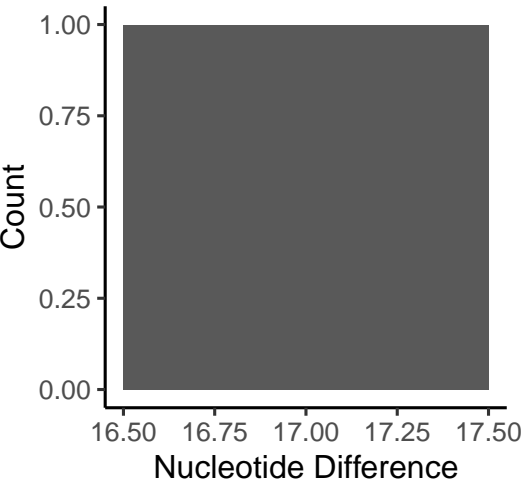
IGHV3–66*01

88 sequences assigned
No exact matches.



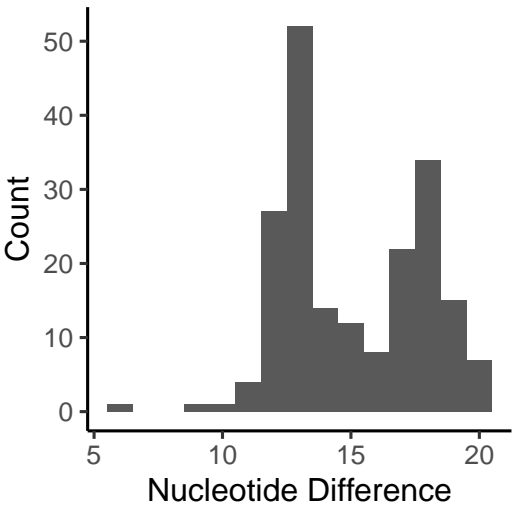
IGHV3-72*01

1 sequences assigned
No exact matches.



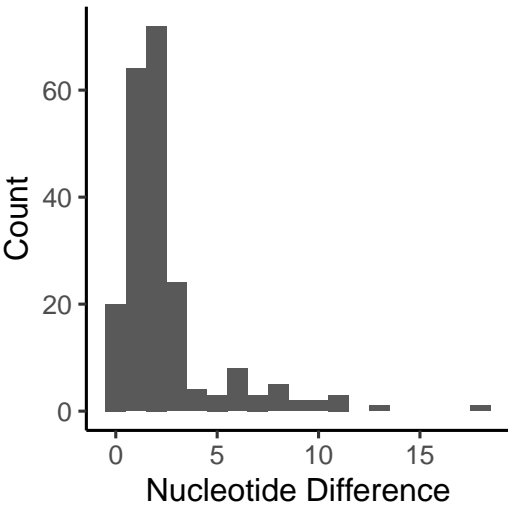
IGHV4-4*07

206 sequences assigned
No exact matches.



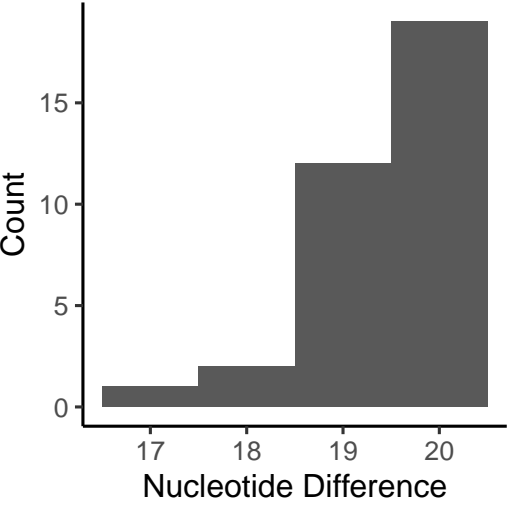
IGHV4-34*01_02

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



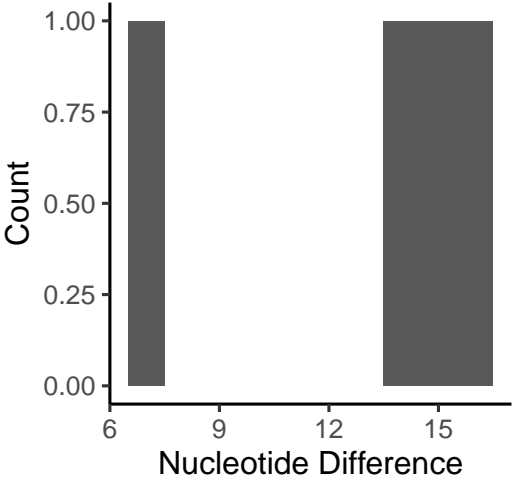
IGHV3-74*03

45 sequences assigned
No exact matches.



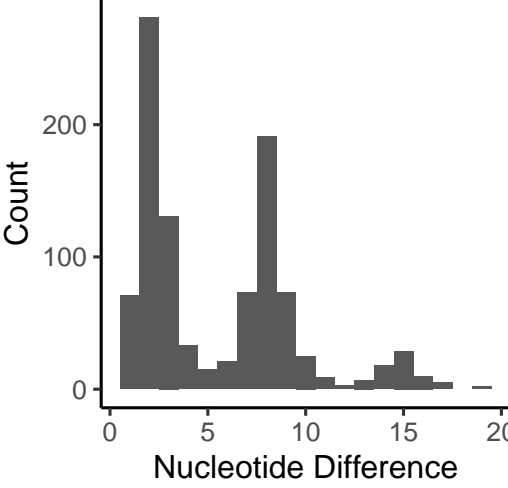
IGHV4-4*02_03

18 sequences assigned
No exact matches.



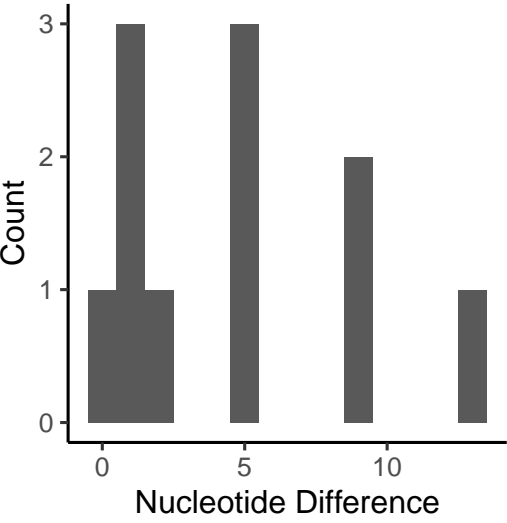
IGHV4-39*02

1001 sequences assigned
No exact matches.



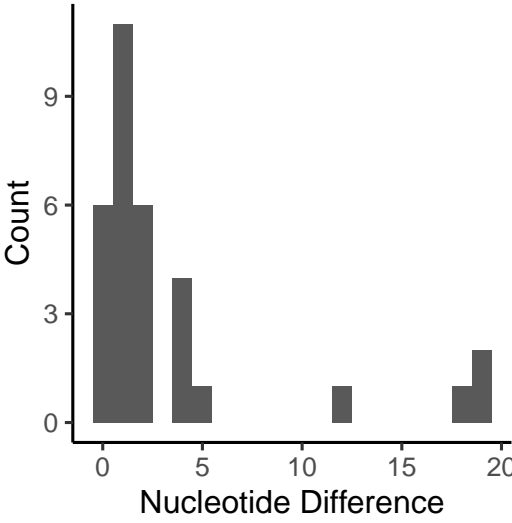
IGHV3-74*01_02

12 sequences assigned
1 (8.3%) exact matches, in which:
1 unique CDR3
1 unique J



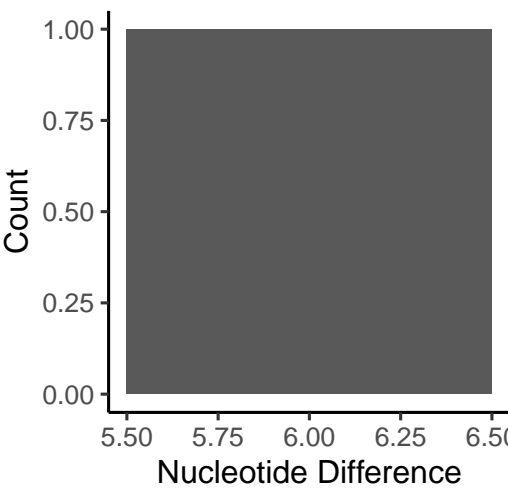
IGHV4-31*02

37 sequences assigned
6 (16.2%) exact matches, in which:
4 unique CDR3
2 unique J



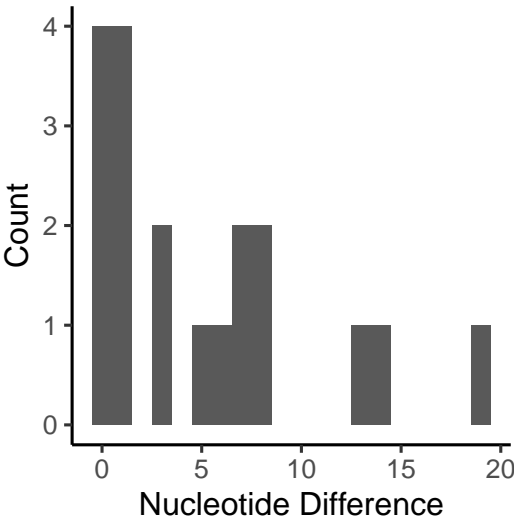
IGHV4-39*07

3 sequences assigned
No exact matches.



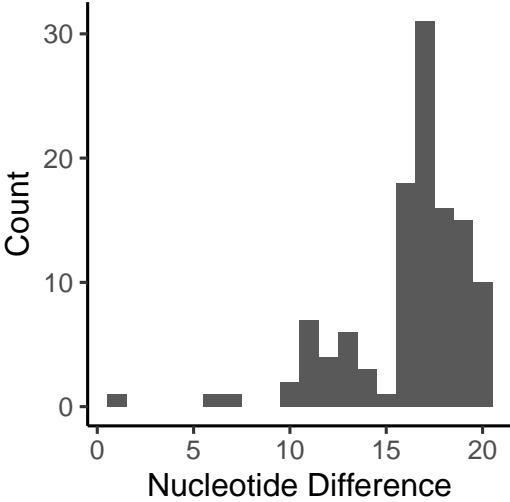
IGHV4-39*01_05

69 sequences assigned
4 (5.8%) exact matches, in which:
4 unique CDR3
1 unique J



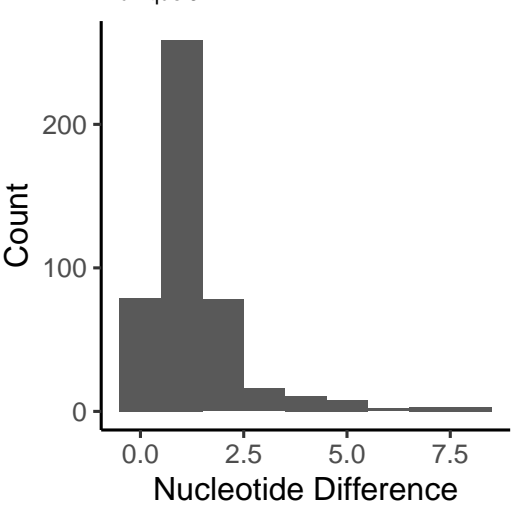
IGHV4-59*12

129 sequences assigned
No exact matches.



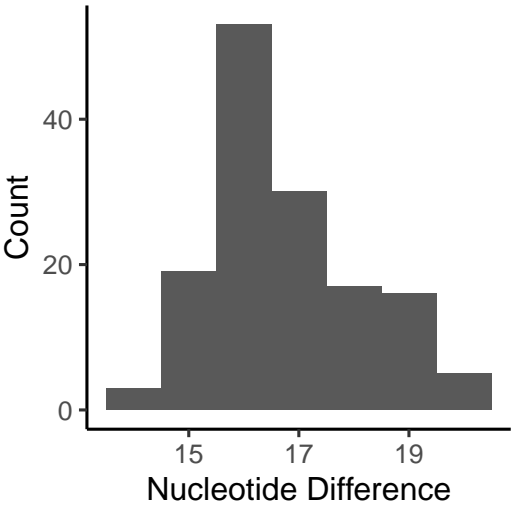
IGHV5-51*01_03

460 sequences assigned
79 (17.2%) exact matches, in which:
39 unique CDR3
1 unique J



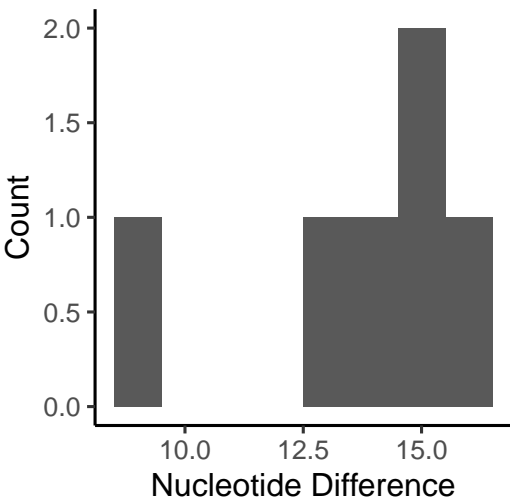
IGHV4-59*03

161 sequences assigned
No exact matches.



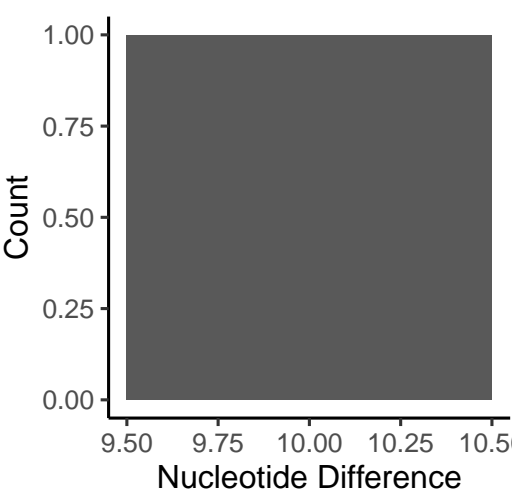
IGHV4-61*08

9 sequences assigned
No exact matches.



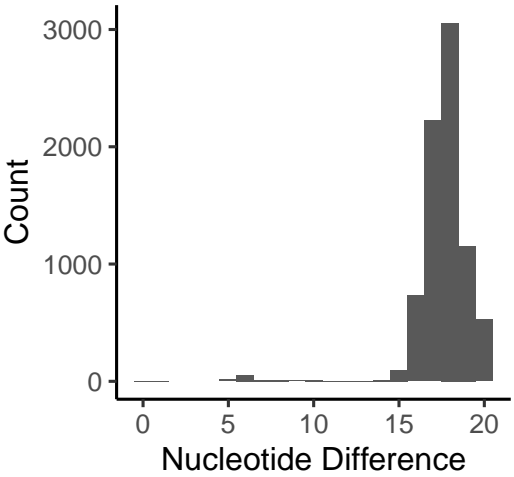
IGHV6-1*01_02

1 sequences assigned
No exact matches.



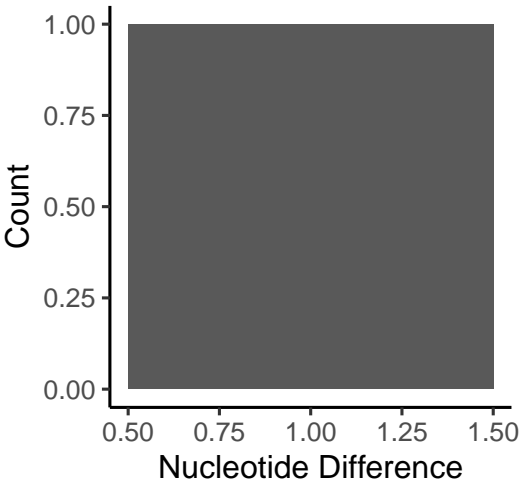
IGHV4-59*01_07

8641 sequences assigned
1 (0%) exact matches, in which:
1 unique CDR3
1 unique J



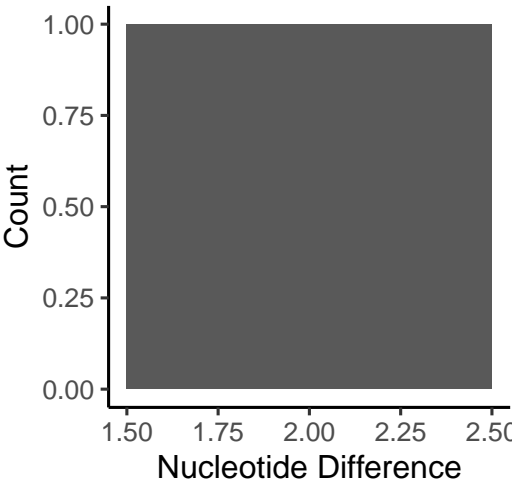
IGHV5-10-1*01_03

2 sequences assigned
No exact matches.

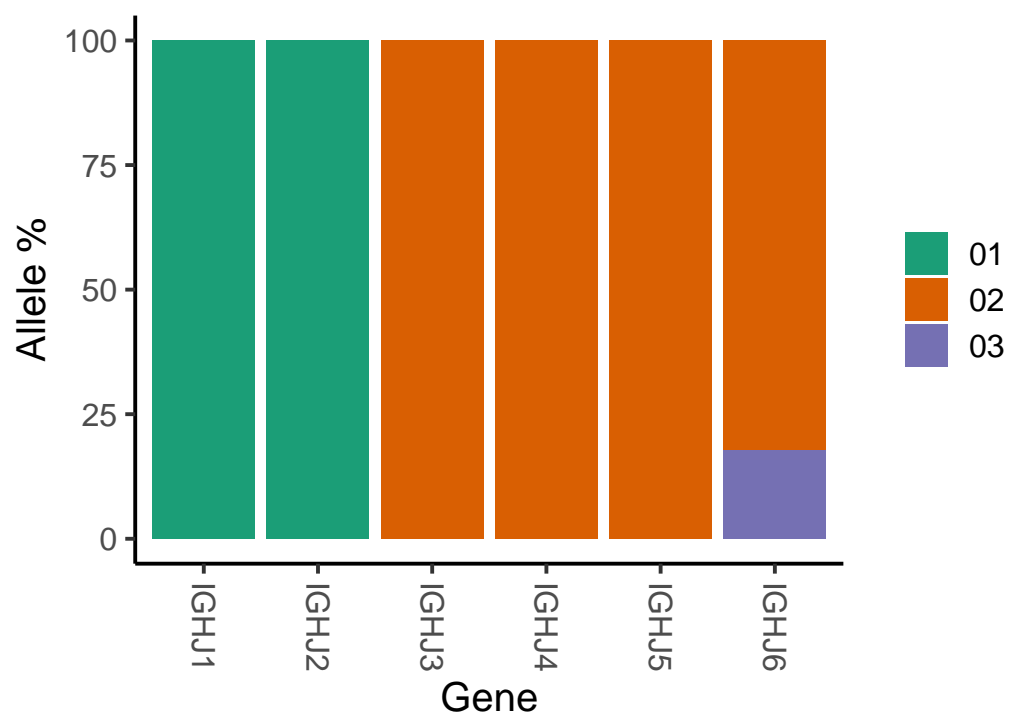


IGHV7-4-1*02

1 sequences assigned
No exact matches.



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