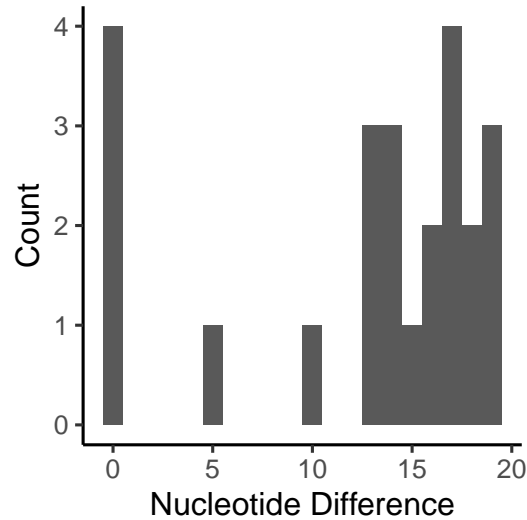


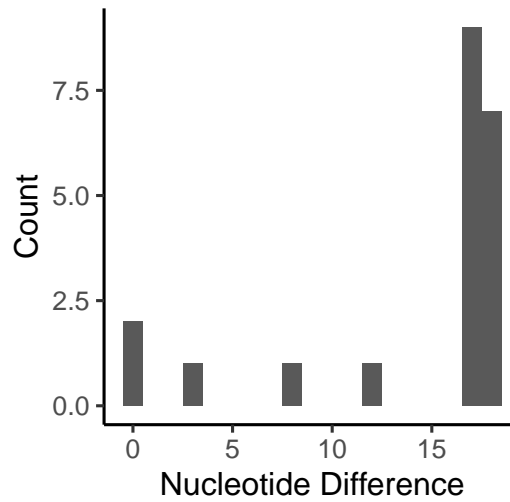
IGHV1-2*02

42 sequences assigned
4 (9.5%) exact matches, in which:
4 unique CDR3
3 unique J



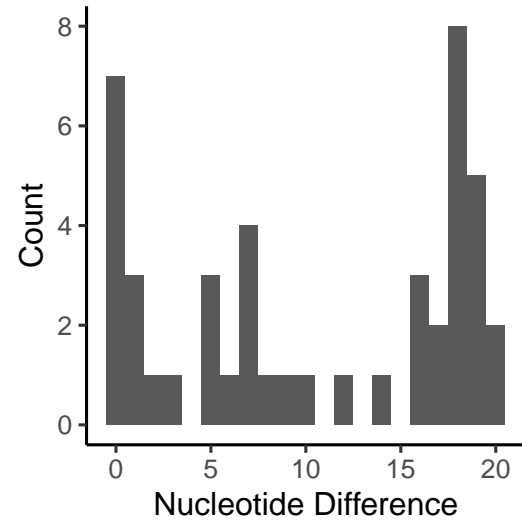
IGHV1-3*01

27 sequences assigned
2 (7.4%) exact matches, in which:
2 unique CDR3
2 unique J



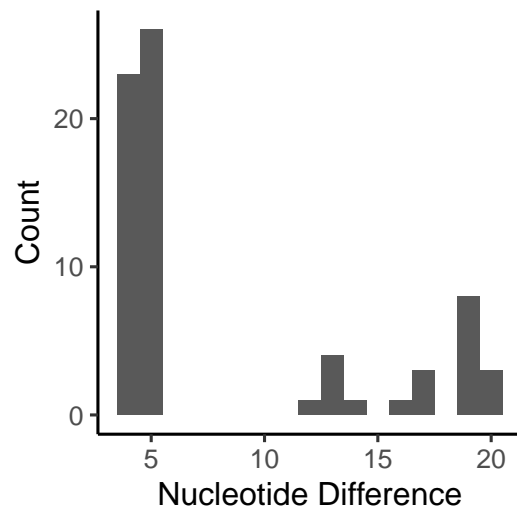
IGHV1-18*01

60 sequences assigned
7 (11.7%) exact matches, in which:
7 unique CDR3
3 unique J



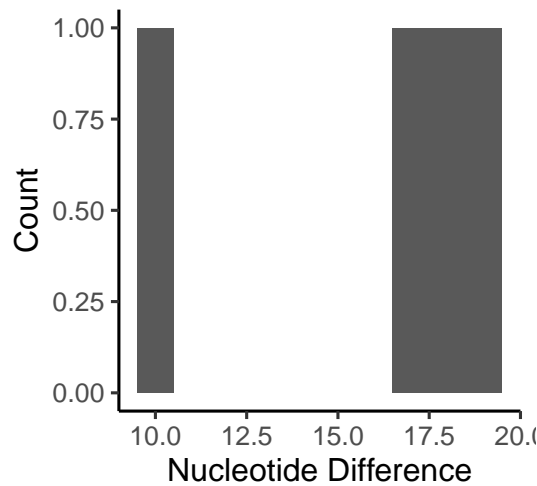
IGHV1-2*04

71 sequences assigned
No exact matches.



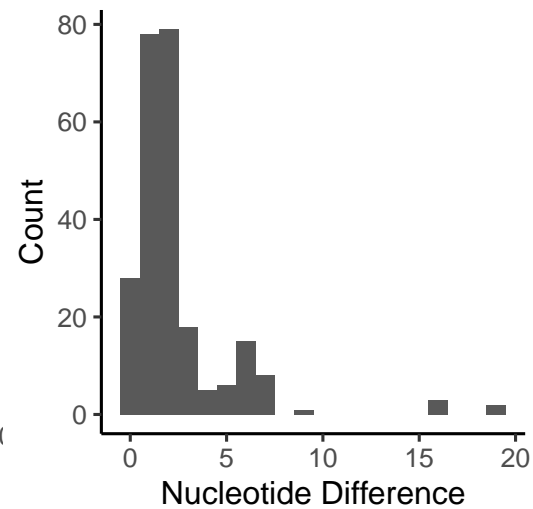
IGHV1-3*04

4 sequences assigned
No exact matches.



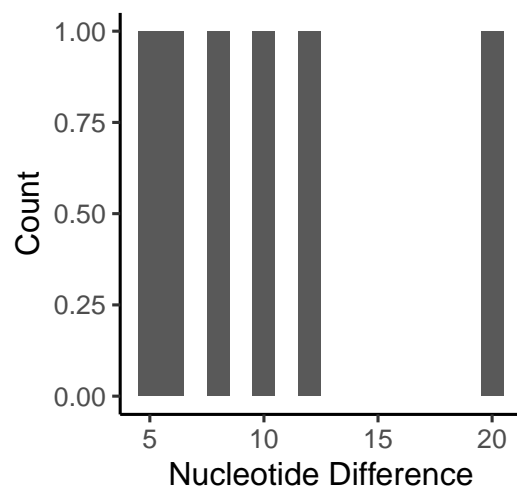
IGHV1-24*01

245 sequences assigned
28 (11.4%) exact matches, in which:
9 unique CDR3
3 unique J



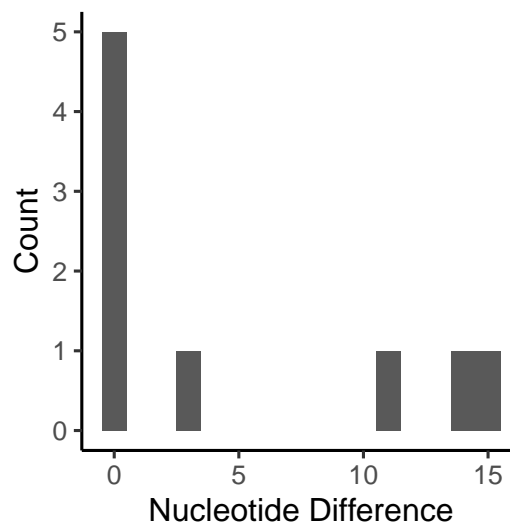
IGHV1-2*06

8 sequences assigned
No exact matches.



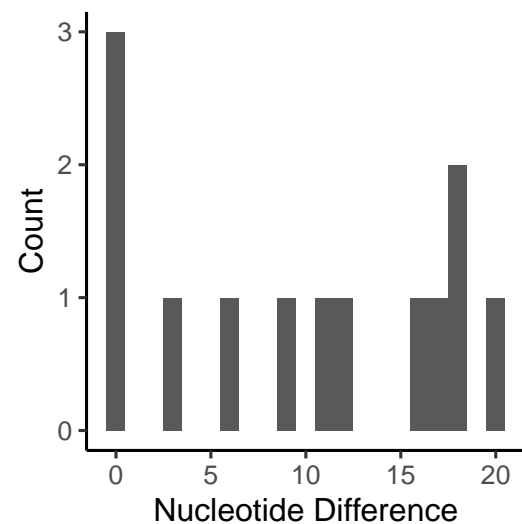
IGHV1-8*01

15 sequences assigned
5 (33.3%) exact matches, in which:
5 unique CDR3
3 unique J



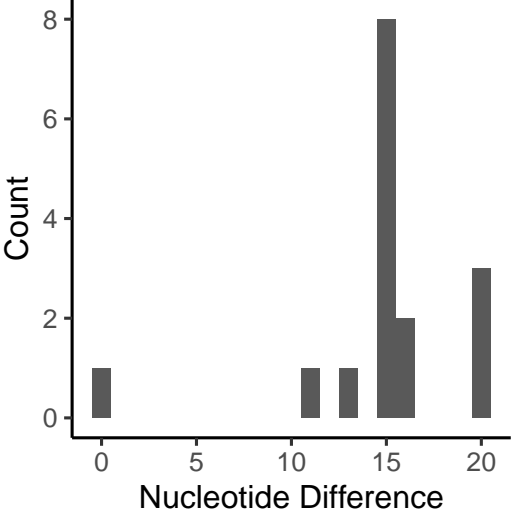
IGHV1-46*01

20 sequences assigned
3 (15%) exact matches, in which:
3 unique CDR3
2 unique J



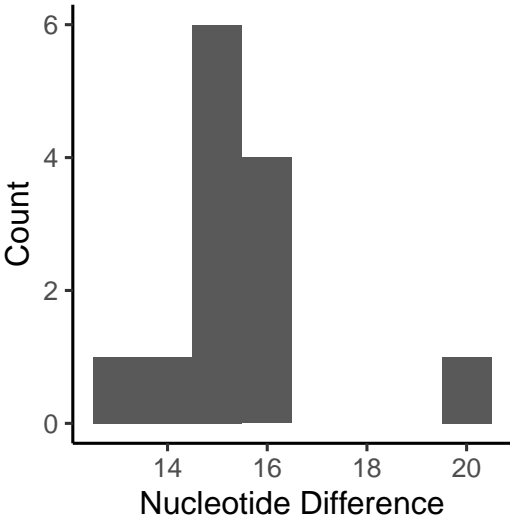
IGHV1–46*03

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



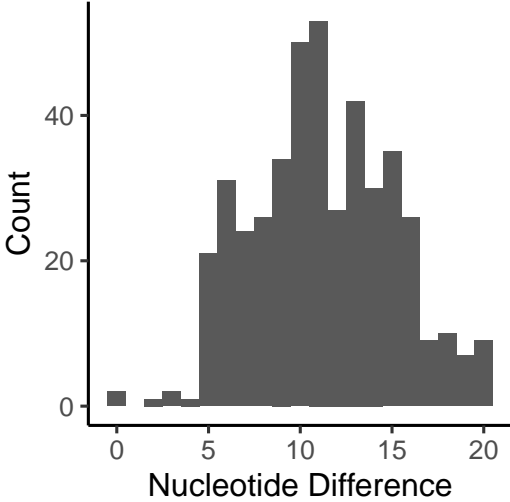
IGHV2–5*02

13 sequences assigned
No exact matches.



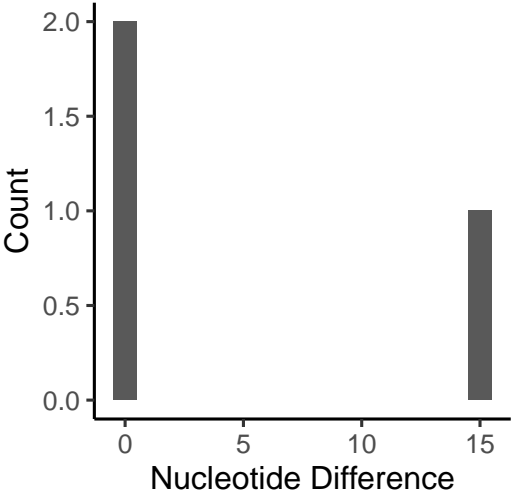
IGHV3–7*01

459 sequences assigned
2 (0.4%) exact matches, in which:
2 unique CDR3
2 unique J



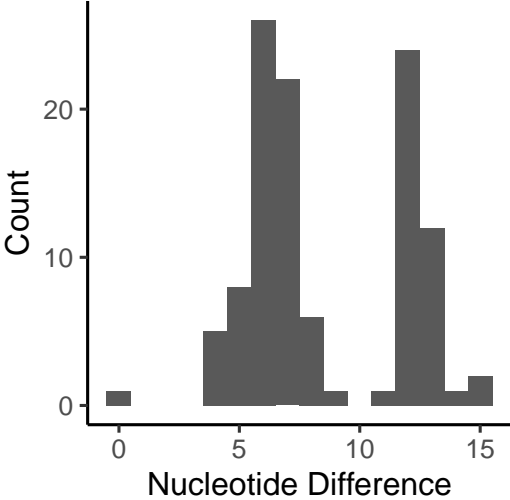
IGHV1–58*01

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



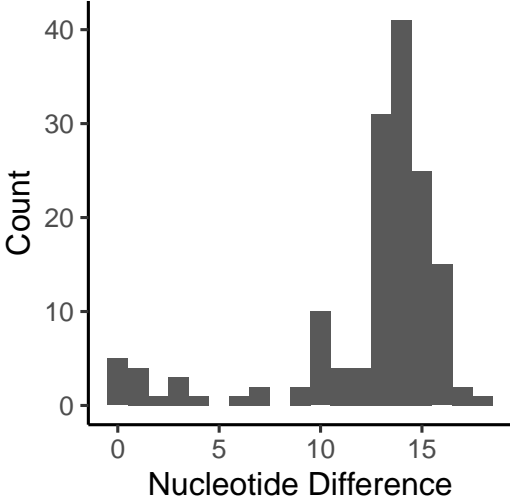
IGHV2–26*01

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



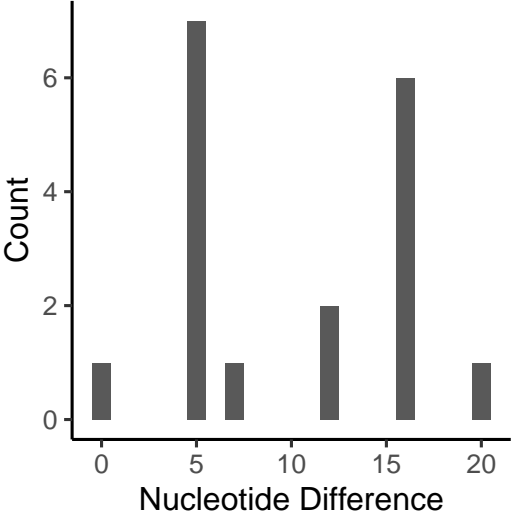
IGHV3–9*01

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



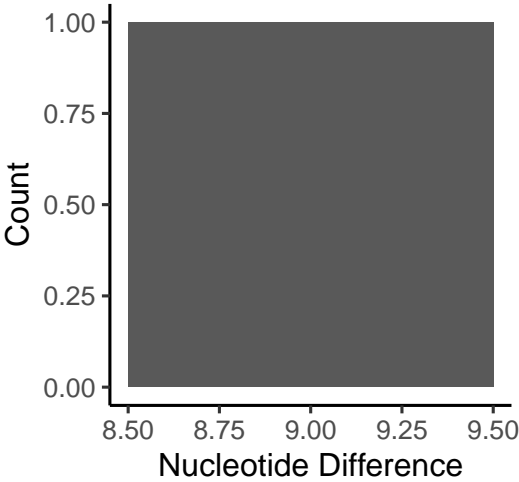
IGHV2–5*01

19 sequences assigned
1 (5.3%) exact matches, in which:
1 unique CDR3
1 unique J



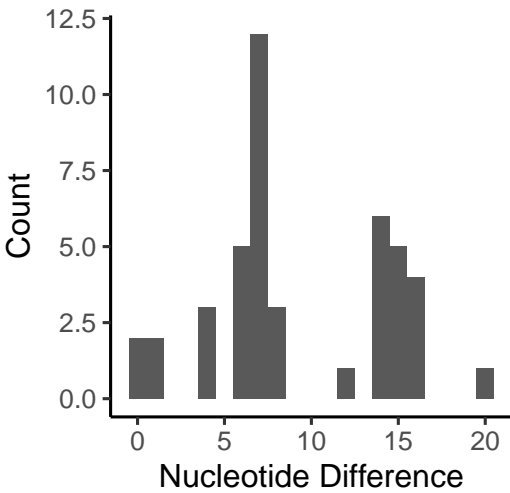
IGHV2–70*01

1 sequences assigned
No exact matches.



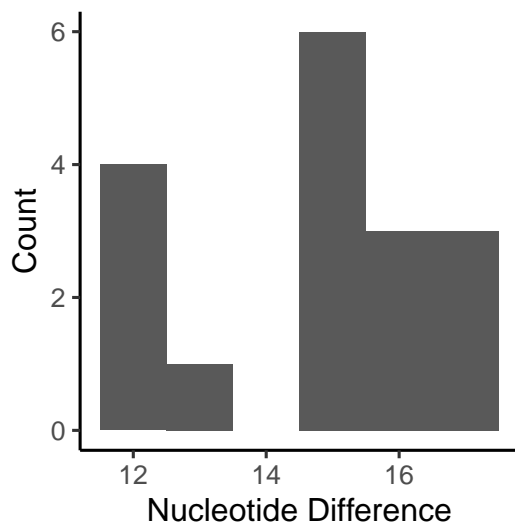
IGHV3–11*01

52 sequences assigned
2 (3.8%) exact matches, in which:
2 unique CDR3
2 unique J



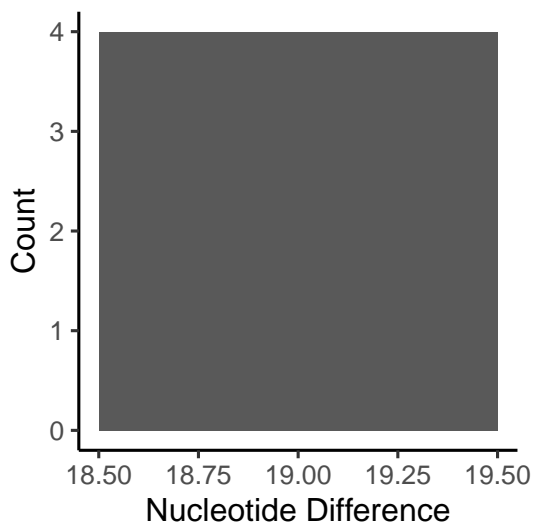
IGHV3-13*01

21 sequences assigned
No exact matches.



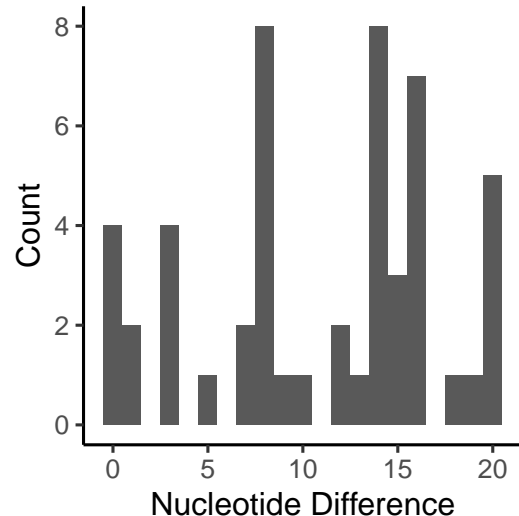
IGHV3-21*06

6 sequences assigned
No exact matches.



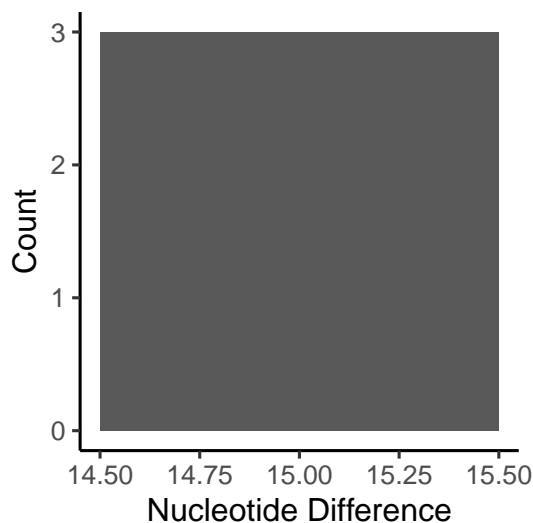
IGHV3-33*01

65 sequences assigned
4 (6.2%) exact matches, in which:
4 unique CDR3
2 unique J



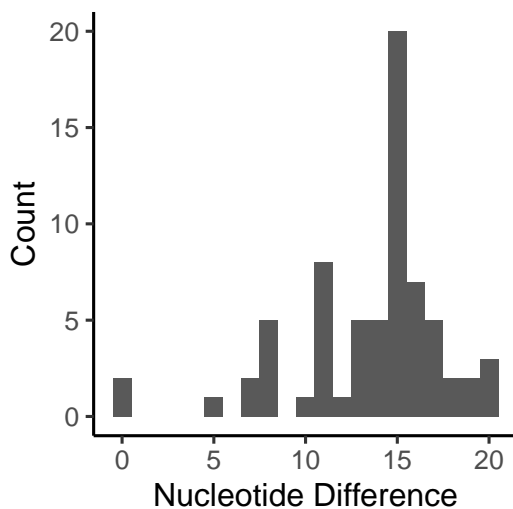
IGHV3-13*04

3 sequences assigned
No exact matches.



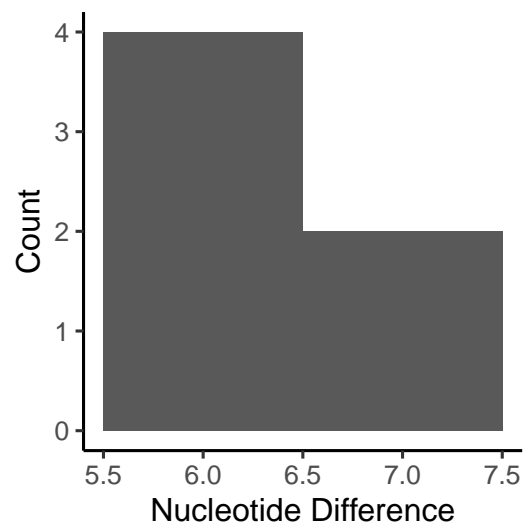
IGHV3-30-3*01

87 sequences assigned
2 (2.3%) exact matches, in which:
2 unique CDR3
2 unique J



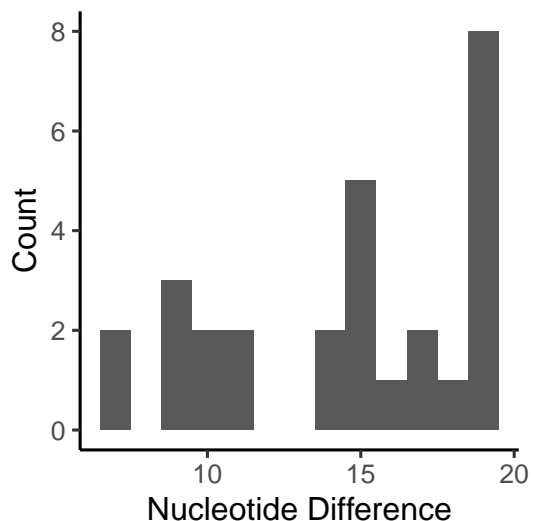
IGHV3-43*01

6 sequences assigned
No exact matches.



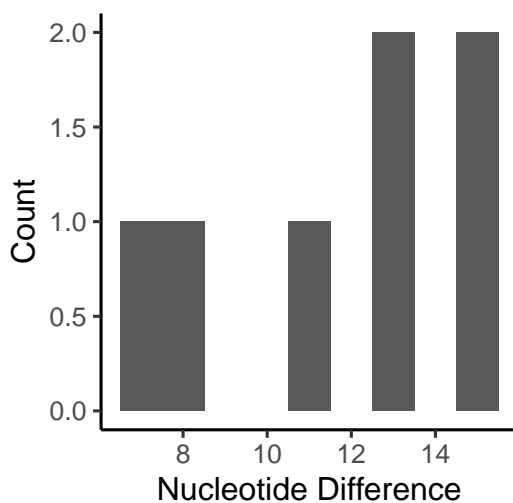
IGHV3-15*01

31 sequences assigned
No exact matches.



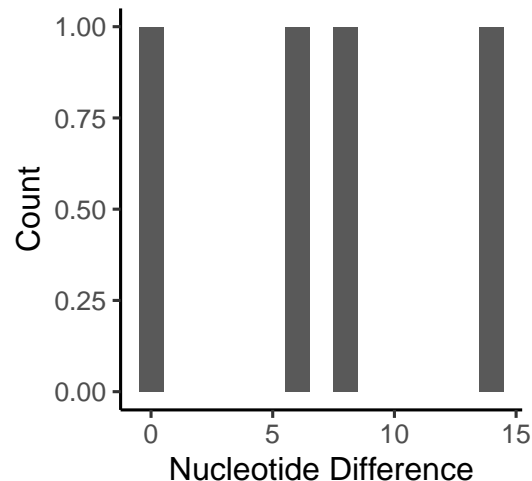
IGHV3-30*03

8 sequences assigned
No exact matches.



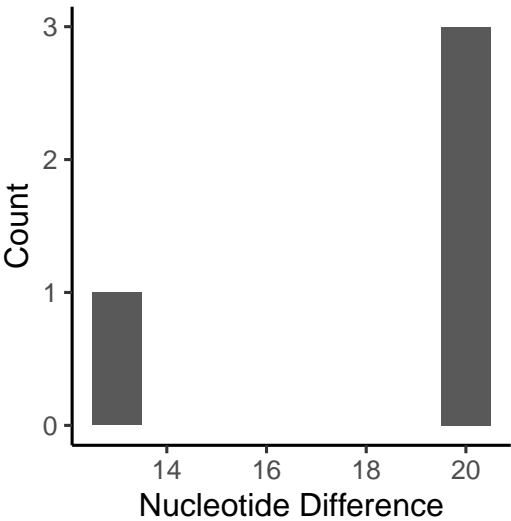
IGHV3-48*01

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



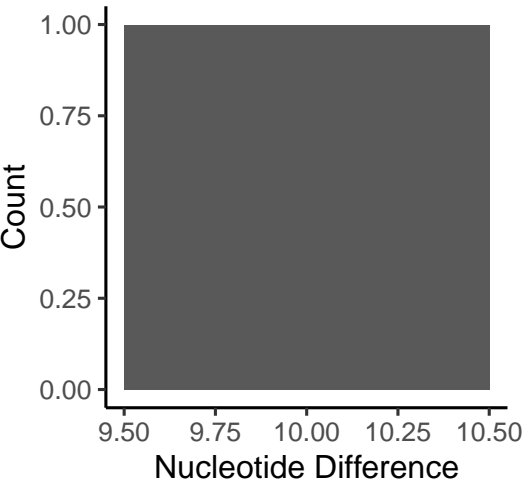
IGHV3-48*02

4 sequences assigned
No exact matches.



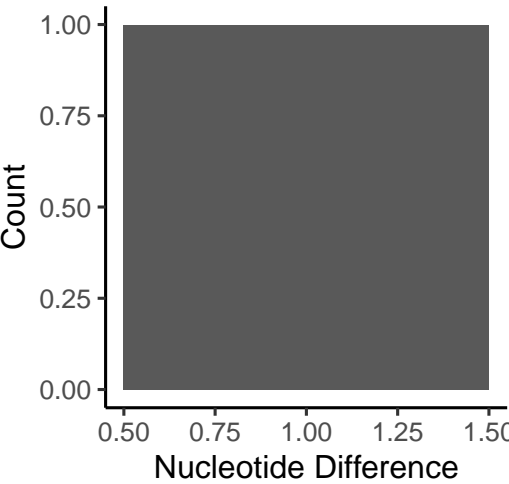
IGHV3-49*03

5 sequences assigned
No exact matches.



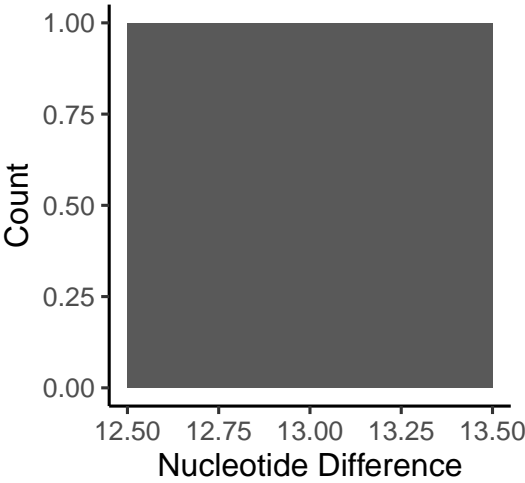
IGHV3-64*07

1 sequences assigned
No exact matches.



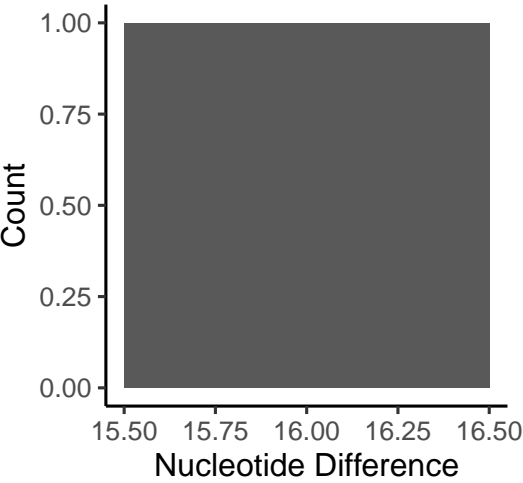
IGHV3-48*03

3 sequences assigned
No exact matches.



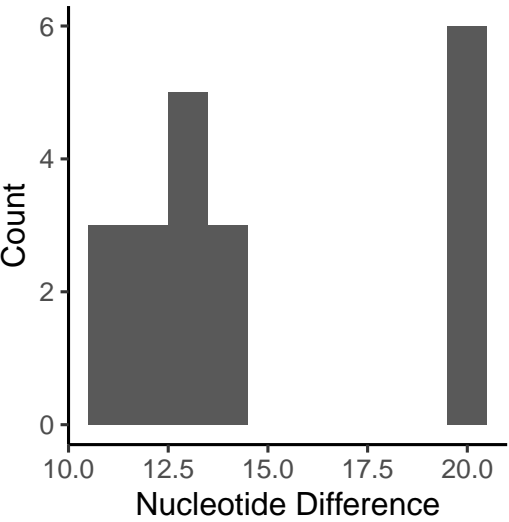
IGHV3-49*04

2 sequences assigned
No exact matches.



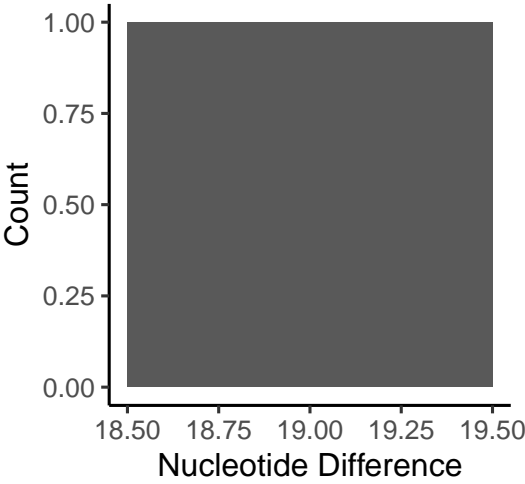
IGHV3-66*02

37 sequences assigned
No exact matches.



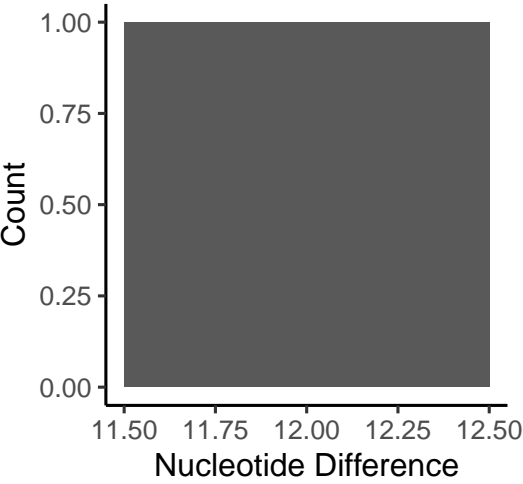
IGHV3-48*04

1 sequences assigned
No exact matches.



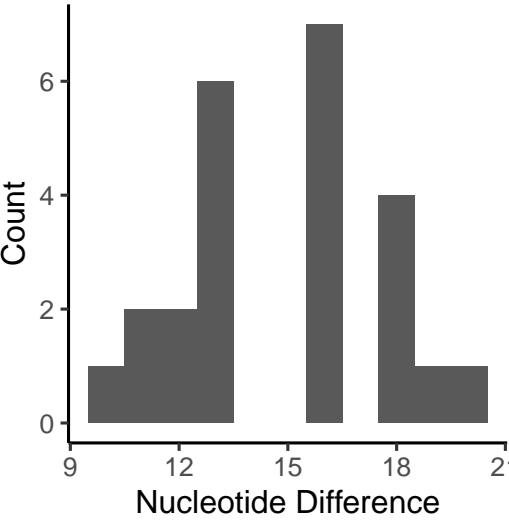
IGHV3-64*01

1 sequences assigned
No exact matches.



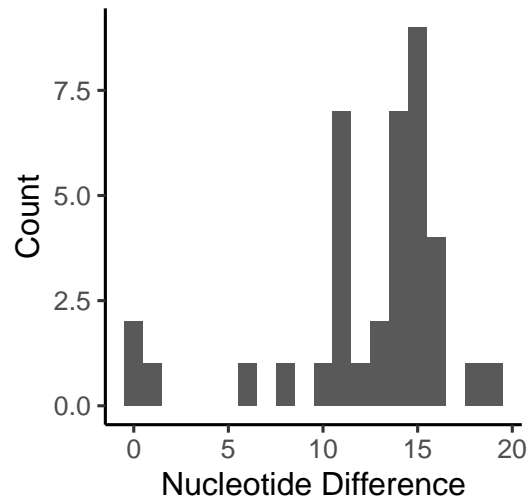
IGHV3-72*01

26 sequences assigned
No exact matches.



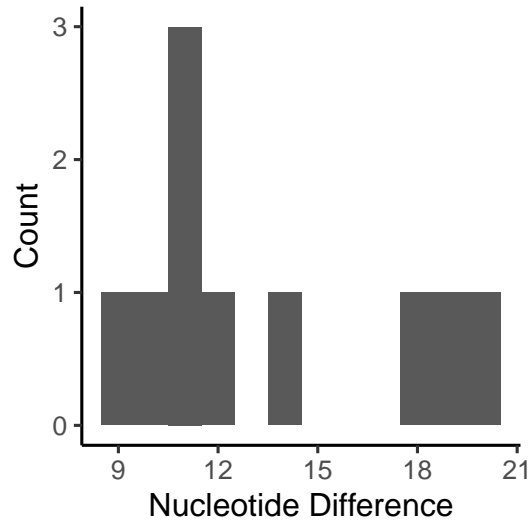
IGHV3-74*01

41 sequences assigned
2 (4.9%) exact matches, in which:
2 unique CDR3
2 unique J



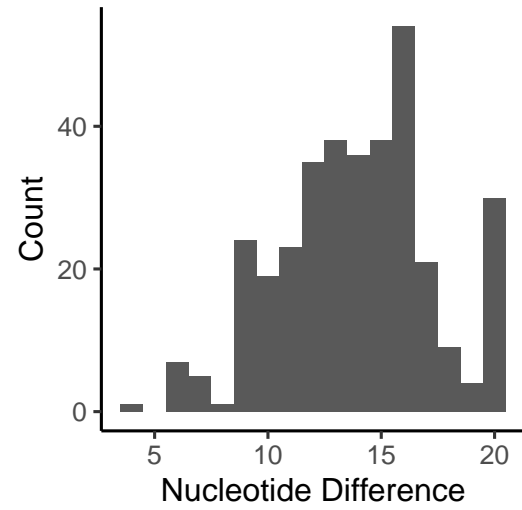
IGHV4-4*07

12 sequences assigned
No exact matches.



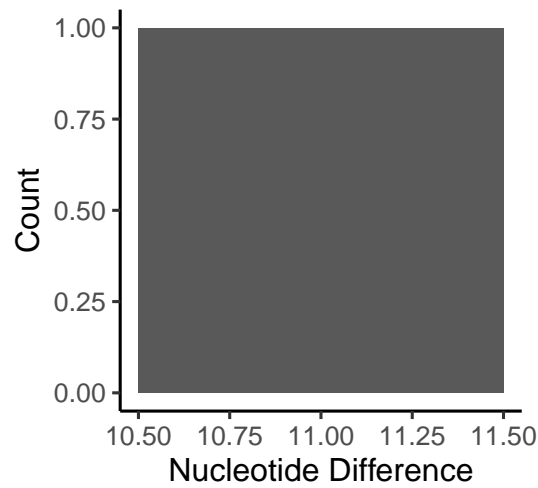
IGHV4-31*03

568 sequences assigned
No exact matches.



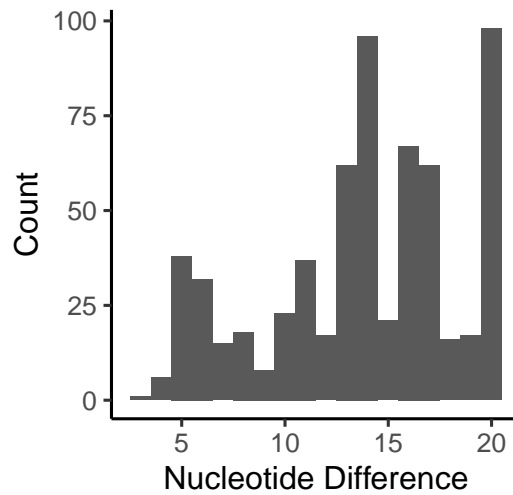
IGHV3-74*03

3 sequences assigned
No exact matches.



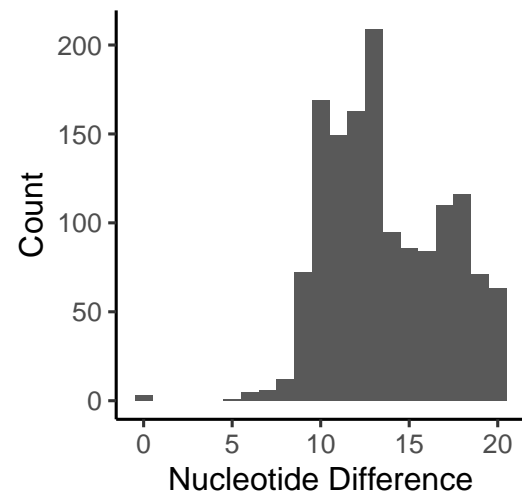
IGHV4-30-4*01

845 sequences assigned
No exact matches.



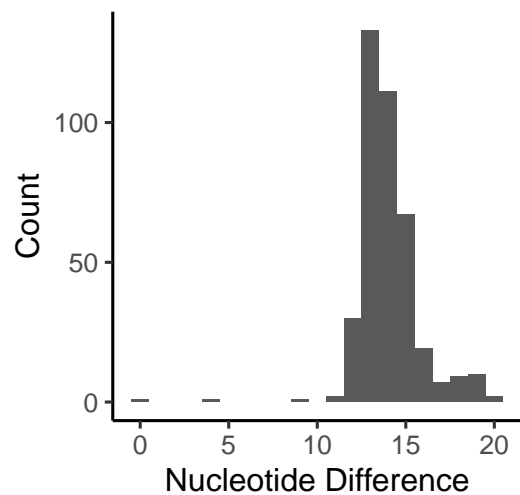
IGHV4-39*01

2401 sequences assigned
3 (0.1%) exact matches, in which:
3 unique CDR3
2 unique J



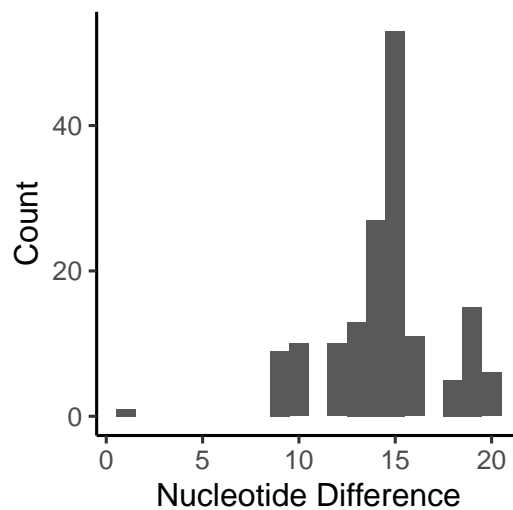
IGHV4-4*02

451 sequences assigned
1 (0.2%) exact matches, in which:
1 unique CDR3
1 unique J



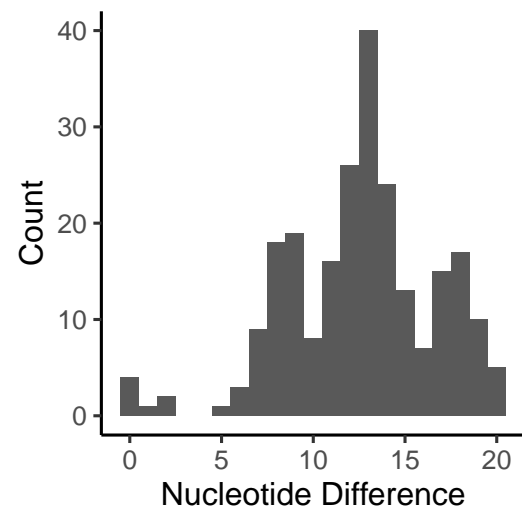
IGHV4-30-2*01

205 sequences assigned
No exact matches.



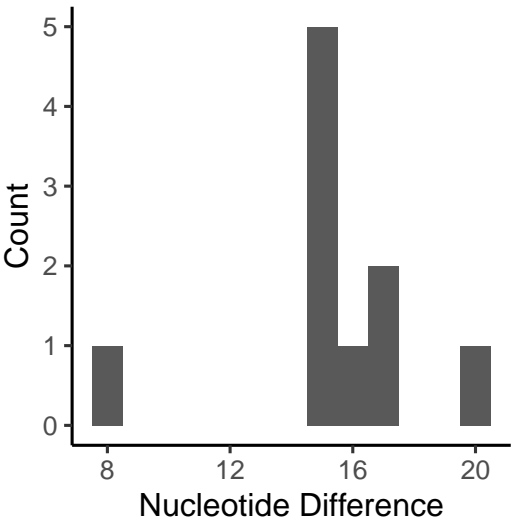
IGHV4-59*01

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



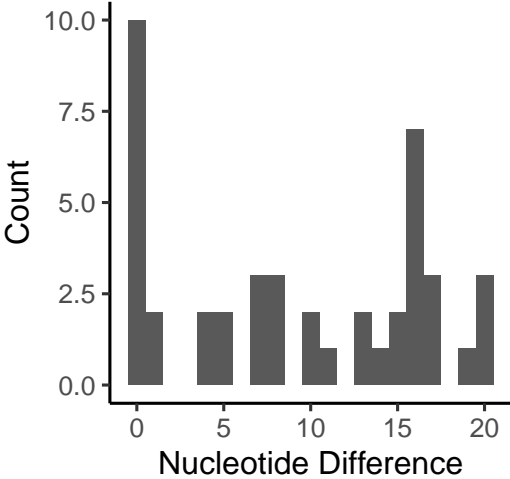
IGHV4-61*01

13 sequences assigned
No exact matches.



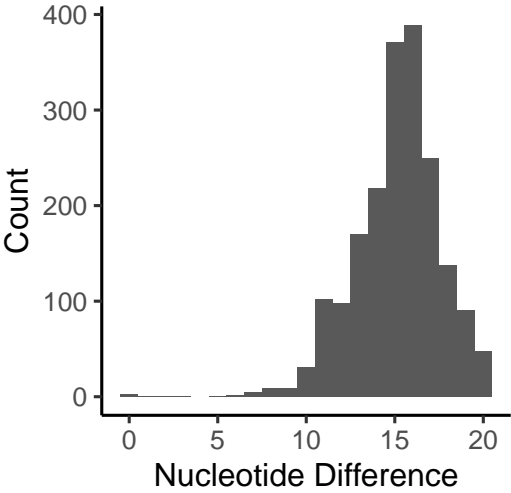
IGHV5-51*03

67 sequences assigned
10 (14.9%) exact matches, in which:
10 unique CDR3
4 unique J



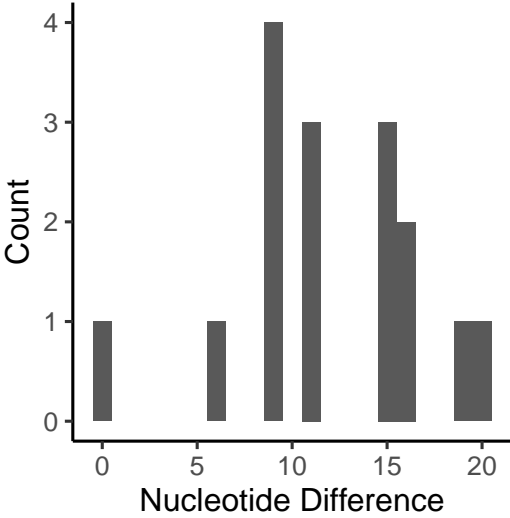
IGHV4-61*02

2080 sequences assigned
3 (0.1%) exact matches, in which:
1 unique CDR3
1 unique J



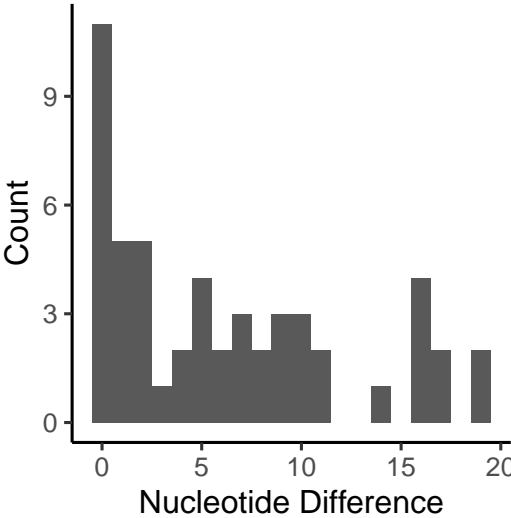
IGHV6-1*01

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



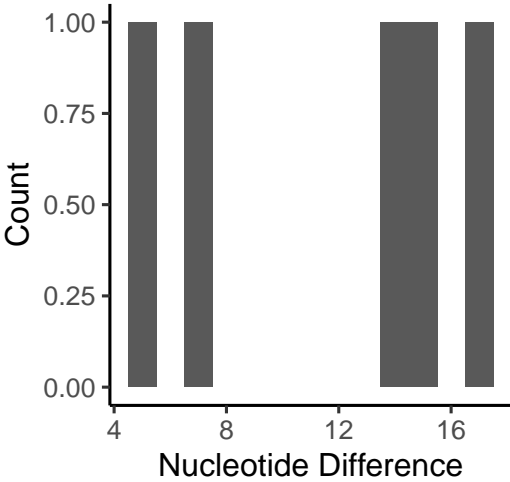
IGHV5-51*01

59 sequences assigned
11 (18.6%) exact matches, in which:
5 unique CDR3
2 unique J

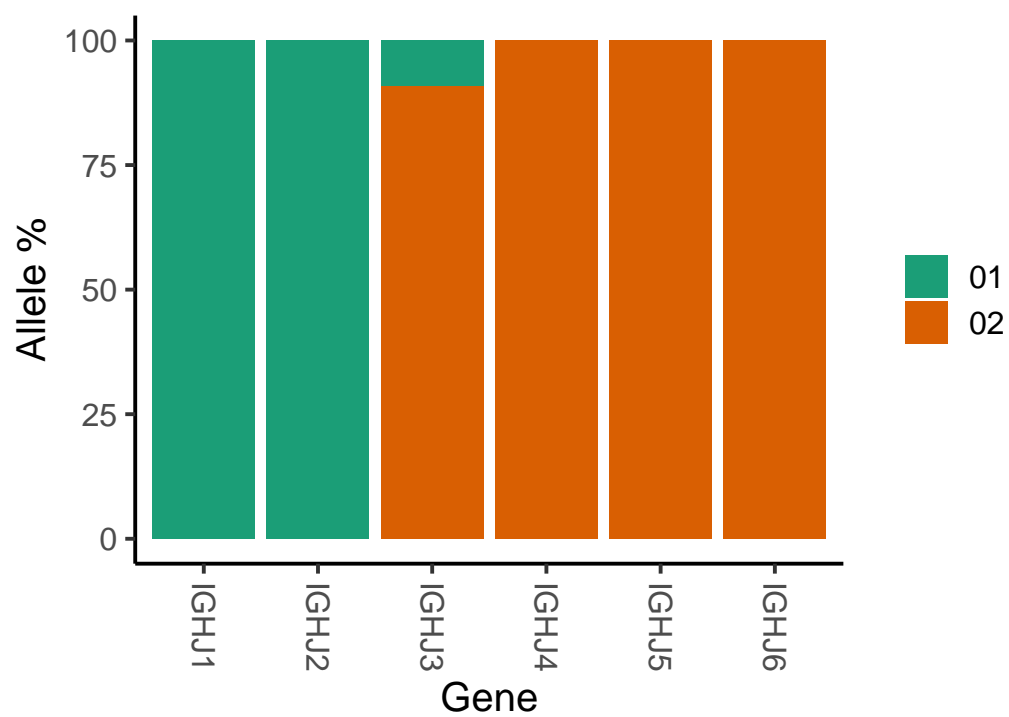


IGHV7-4-1*02

6 sequences assigned
No exact matches.



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