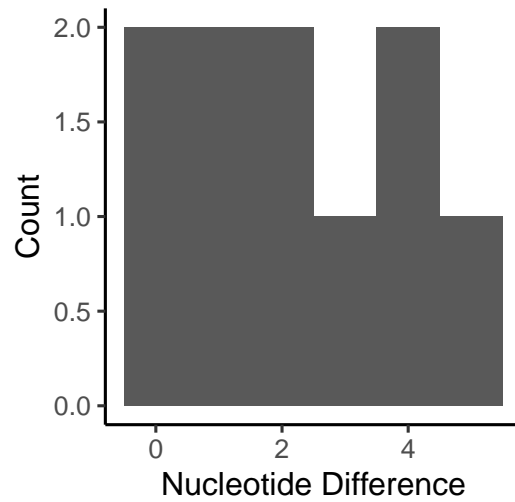


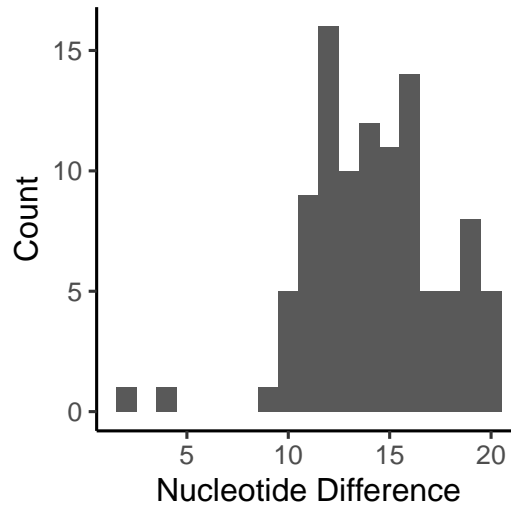
IGHV1–138*01_S2054

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



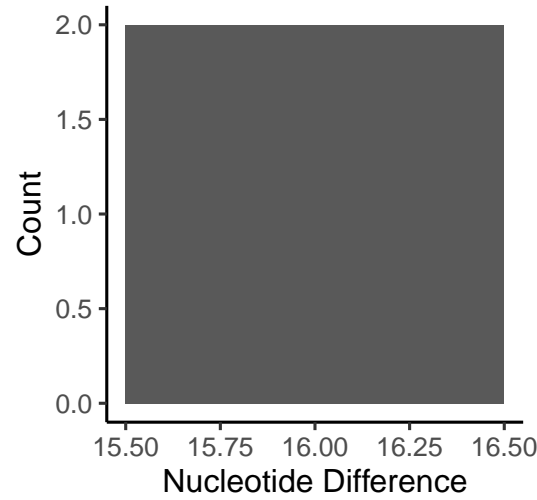
IGHV2–118*01_S8501

118 sequences assigned
No exact matches.



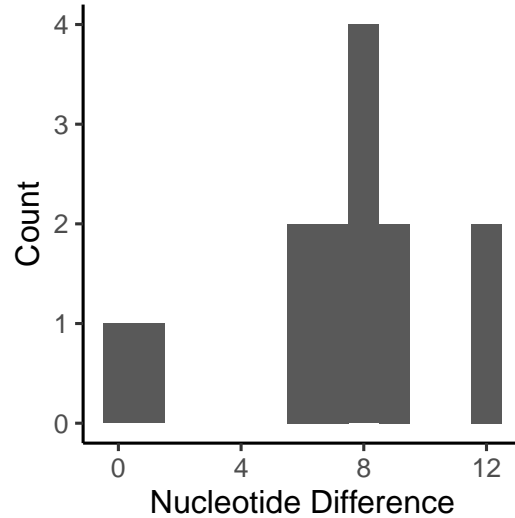
IGHV3–37*01_S6630

9 sequences assigned
No exact matches.



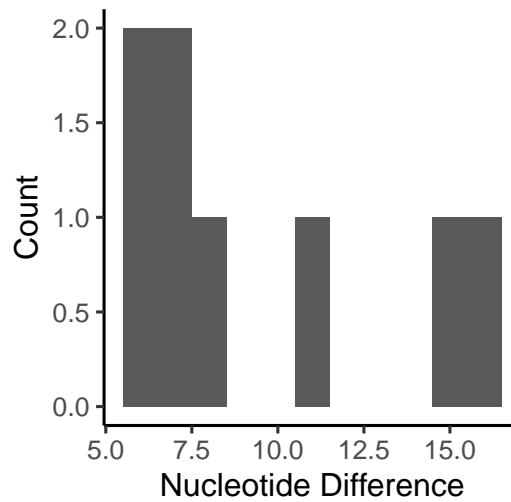
IGHV2–7*02_S1732

14 sequences assigned
1 (7.1%) exact matches, in which:
1 unique CDR3
1 unique J



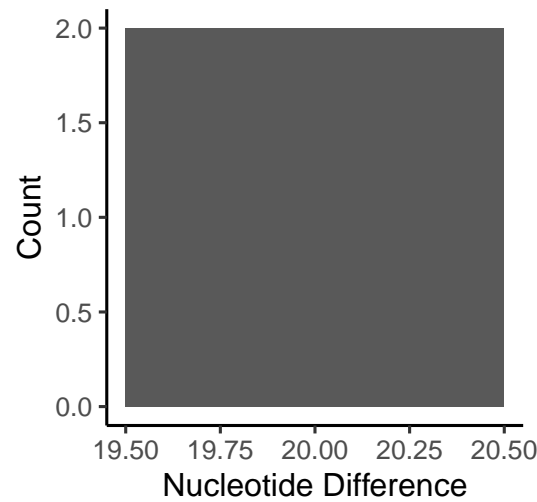
IGHV2–NL_1*01_S5779

14 sequences assigned
No exact matches.



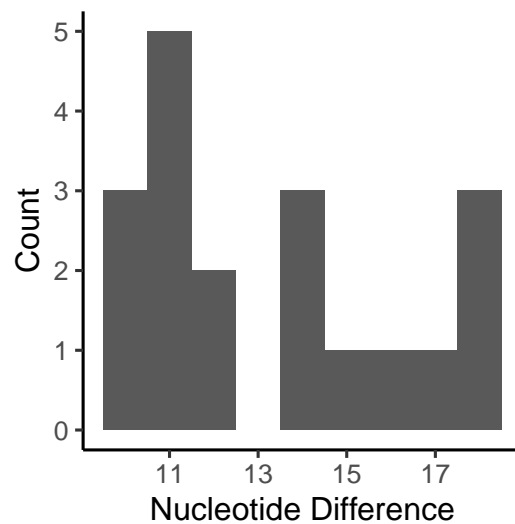
IGHV3–37*01_S9699

18 sequences assigned
No exact matches.



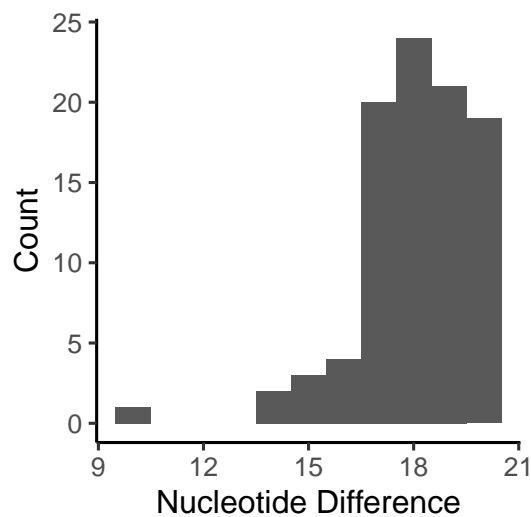
IGHV2–118*01_S2768

20 sequences assigned
No exact matches.



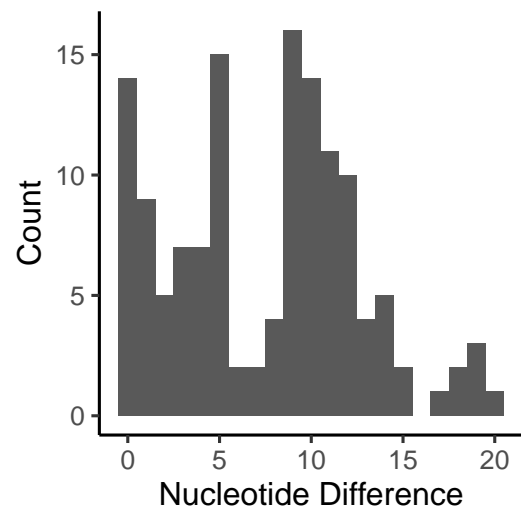
IGHV2–NL_1*01_S9725

205 sequences assigned
No exact matches.



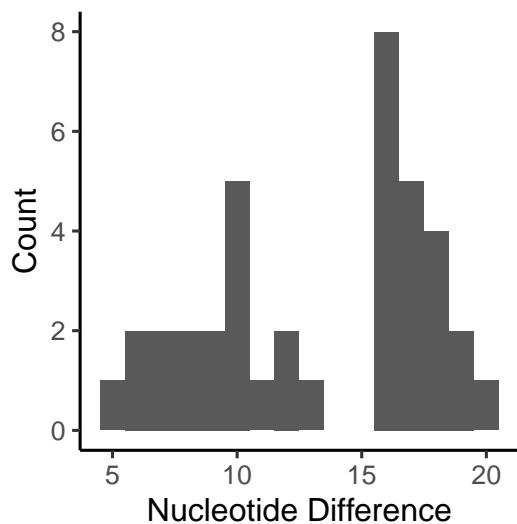
IGHV3–50*01_S1879

141 sequences assigned
14 (9.9%) exact matches, in which:
11 unique CDR3
1 unique J



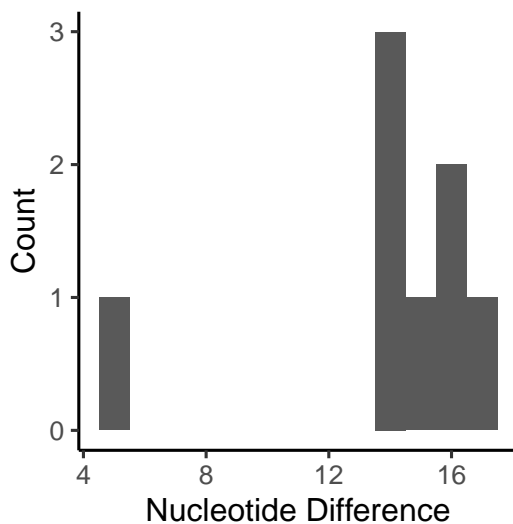
IGHV3-53*01_S8116

42 sequences assigned
No exact matches.



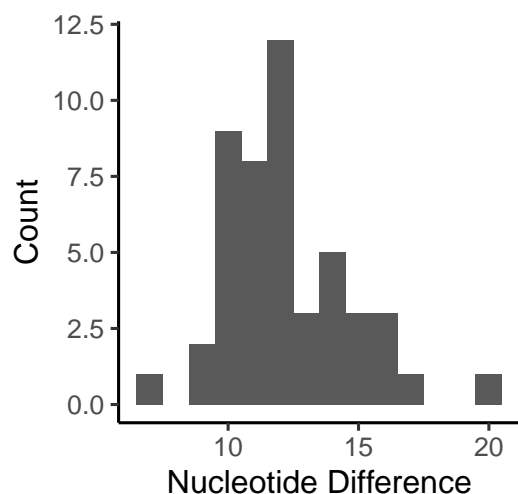
IGHV3-127*01_S3553

8 sequences assigned
No exact matches.



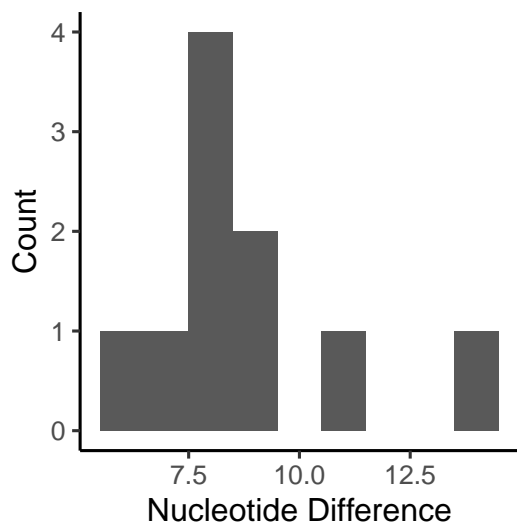
IGHV3-187*01_S8972

50 sequences assigned
No exact matches.



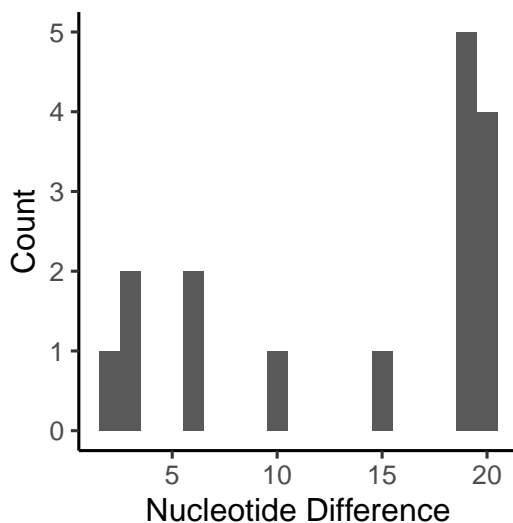
IGHV3-76*02_S4190

10 sequences assigned
No exact matches.



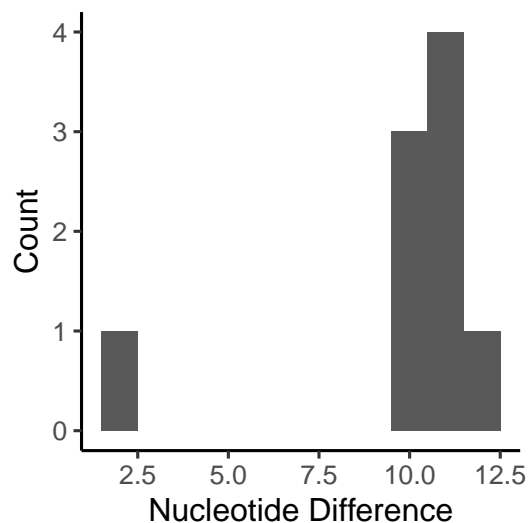
IGHV3-172*01_S8824

76 sequences assigned
No exact matches.



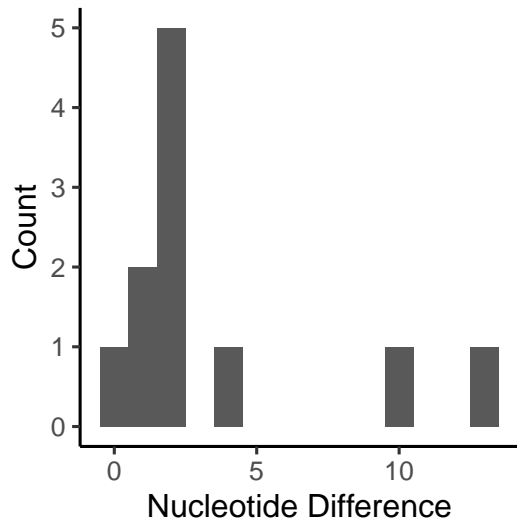
IGHV3-NL_1*01_S9422

20 sequences assigned
No exact matches.



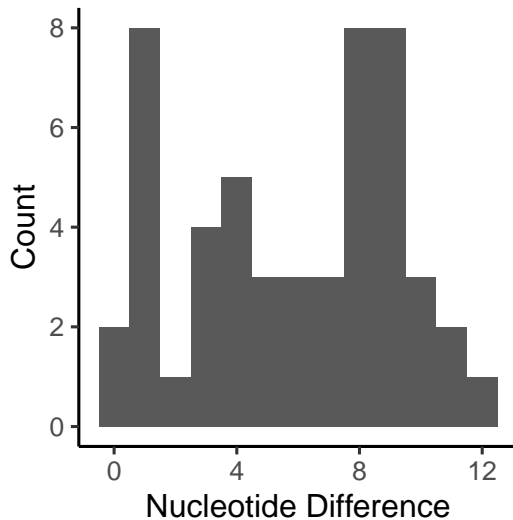
IGHV3-94*01_S4458

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



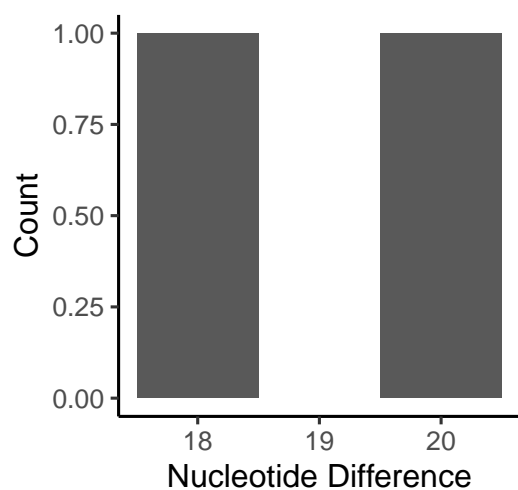
IGHV3-187*01_S1133

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



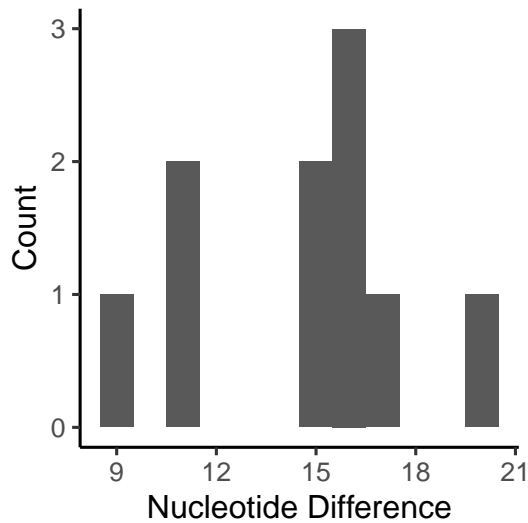
IGHV3-NL_10*02_S2212

3 sequences assigned
No exact matches.



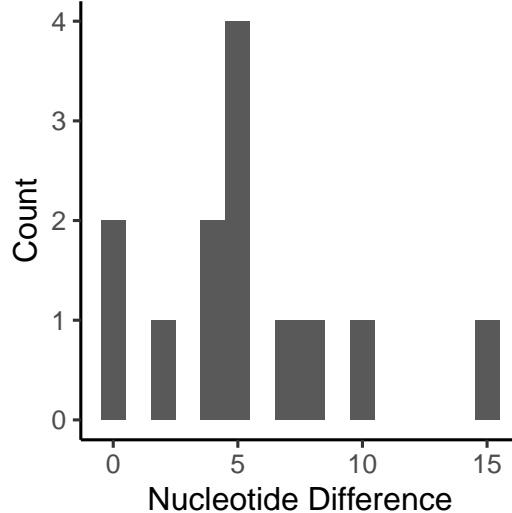
IGHV3–NL_11*01_S4619

15 sequences assigned
No exact matches.



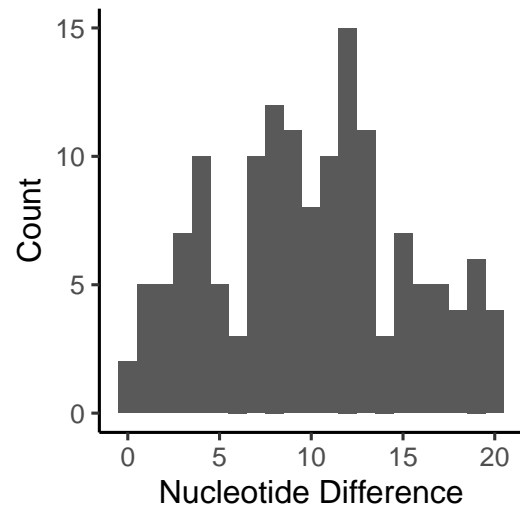
IGHV3–NL_17*01_S0507

14 sequences assigned
2 (14.3%) exact matches, in which:
2 unique CDR3
1 unique J



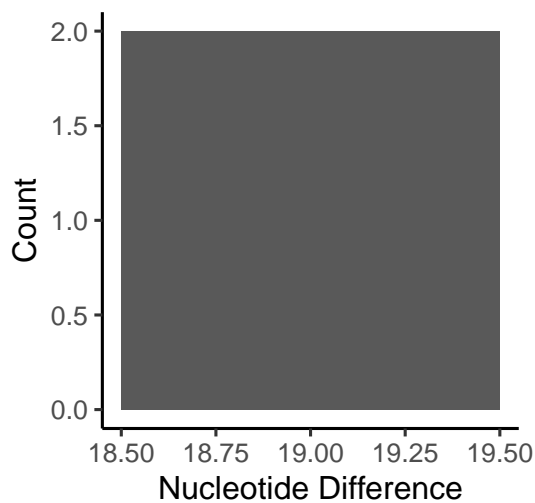
IGHV4–117*01_S8404

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



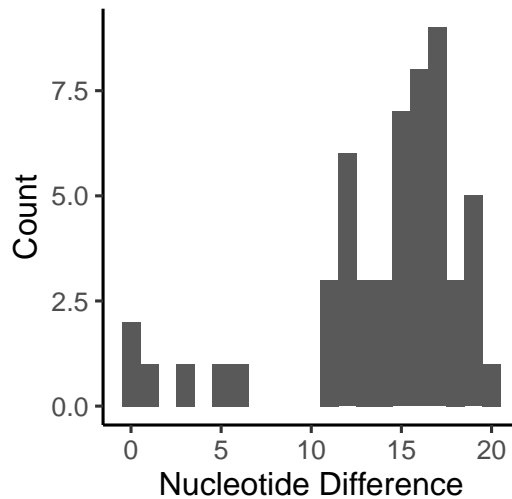
IGHV3–NL_12*02_S5864

9 sequences assigned
No exact matches.



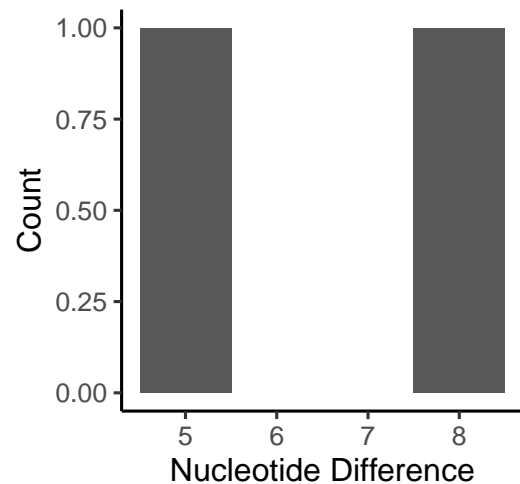
IGHV3–NL_9*01_S6098

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



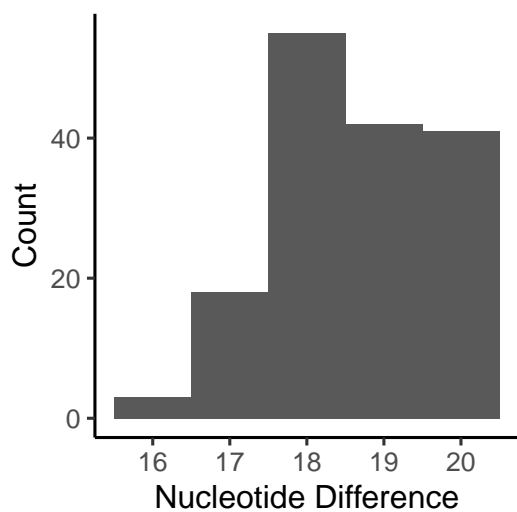
IGHV4–144*01_S9923

2 sequences assigned
No exact matches.



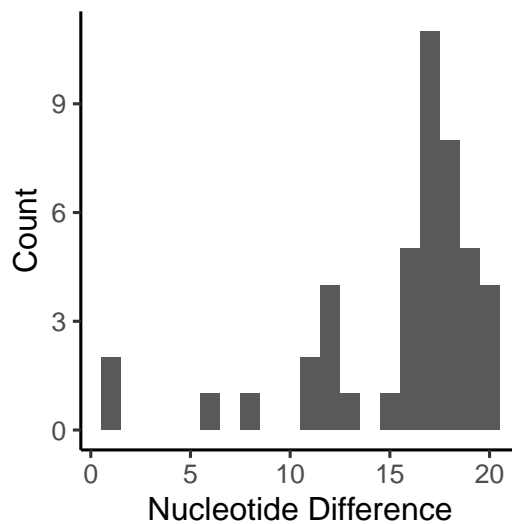
IGHV3–NL_12*02_S6994

378 sequences assigned
No exact matches.



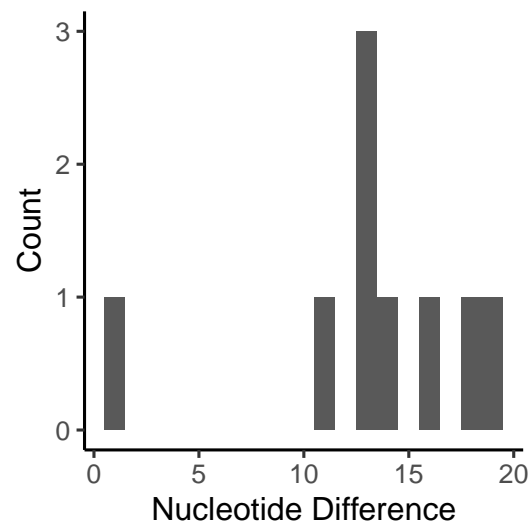
IGHV4–67*02_S7550

55 sequences assigned
No exact matches.



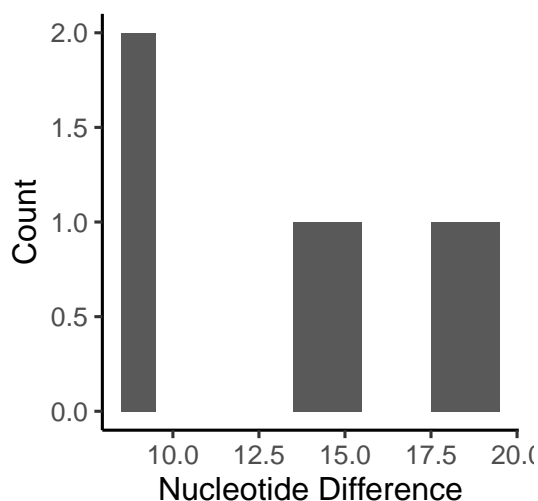
IGHV4–149*01_S1992

28 sequences assigned
No exact matches.



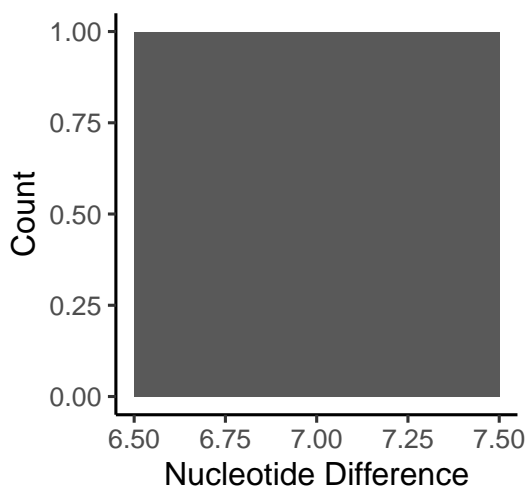
IGHV4-149*02_S8521

7 sequences assigned
No exact matches.



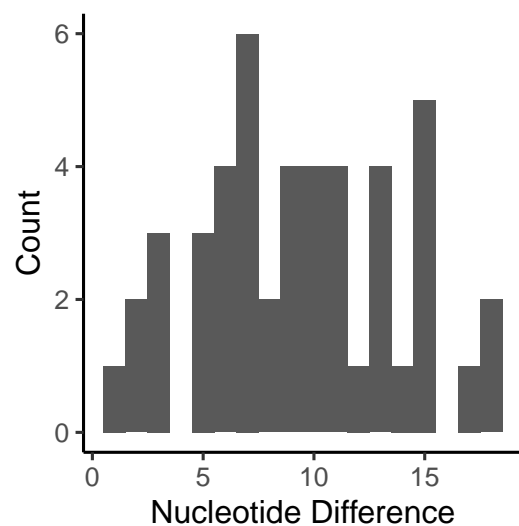
IGHV4-NL_10*02_S9348

1 sequences assigned
No exact matches.



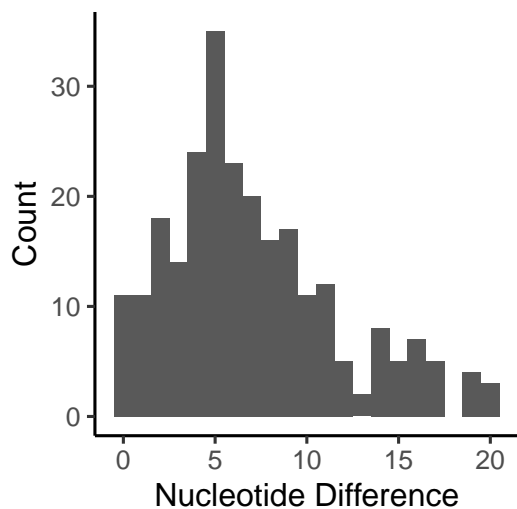
IGHV4-NL_16*01_S2324

51 sequences assigned
No exact matches.



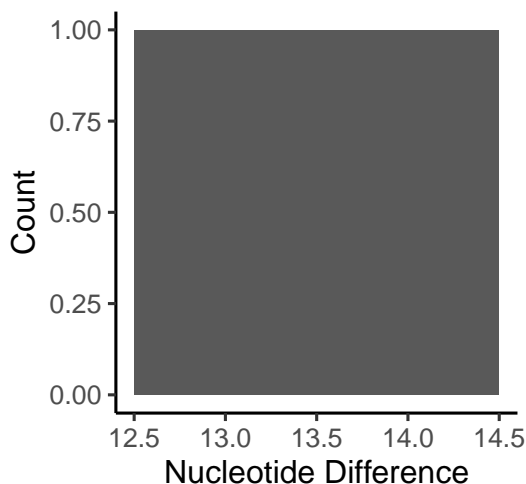
IGHV4-NL_1*01_S7297

266 sequences assigned
11 (4.1%) exact matches, in which:
8 unique CDR3
1 unique J



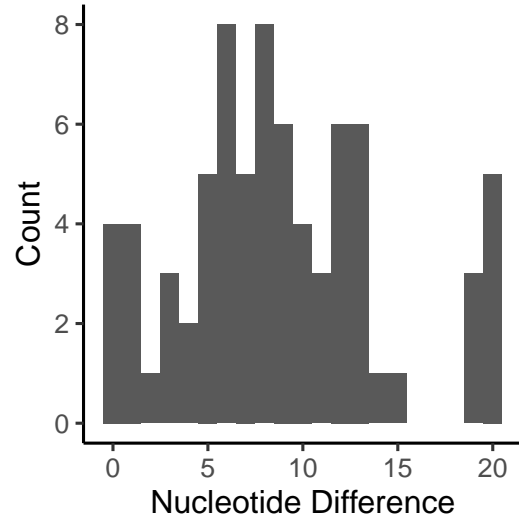
IGHV4-NL_13*01_S9624

5 sequences assigned
No exact matches.



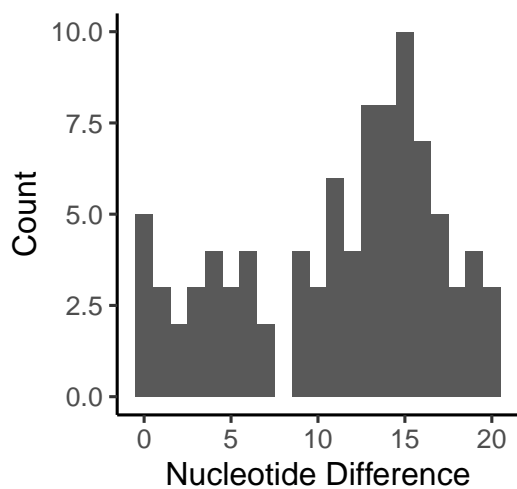
IGHV4-NL_17*01_S4099

86 sequences assigned
4 (4.7%) exact matches, in which:
4 unique CDR3
1 unique J



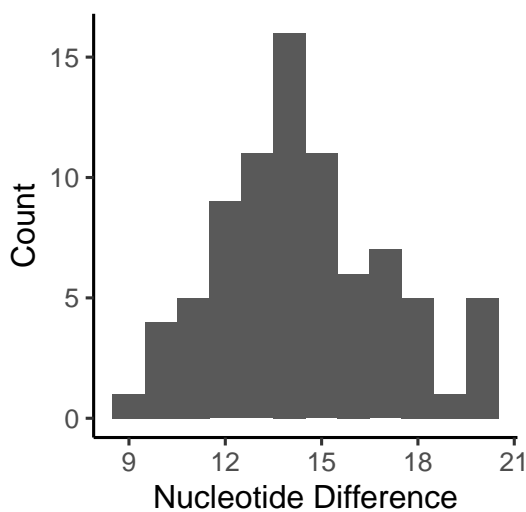
IGHV4-NL_1*01_S8720

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



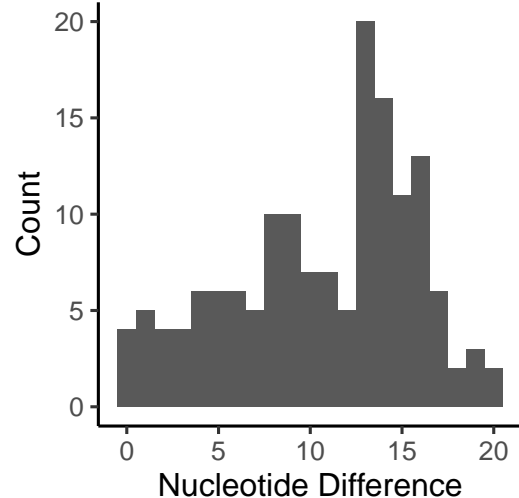
IGHV4-NL_13*01_S9744

100 sequences assigned
No exact matches.



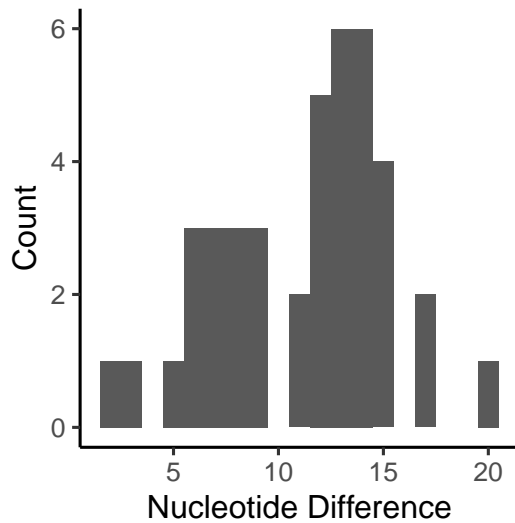
IGHV4-NL_21*01_S0138

228 sequences assigned
4 (1.8%) exact matches, in which:
4 unique CDR3
1 unique J



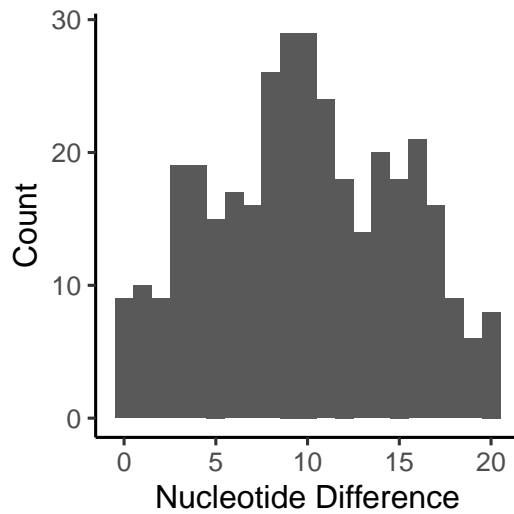
IGHV4–NL_23*01_S1296

44 sequences assigned
No exact matches.



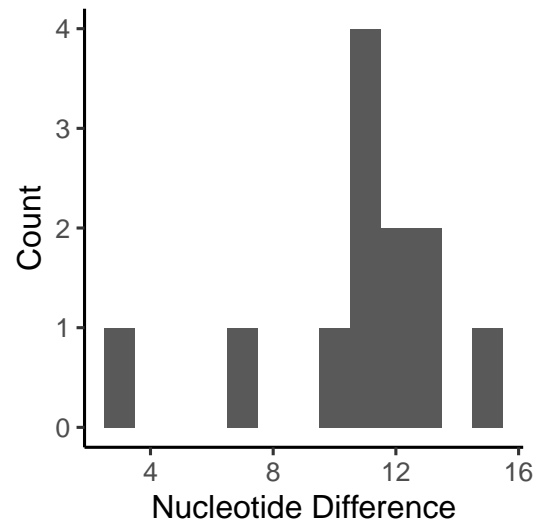
IGHV4–NL_33*01_S4377

379 sequences assigned
9 (2.4%) exact matches, in which:
8 unique CDR3
1 unique J



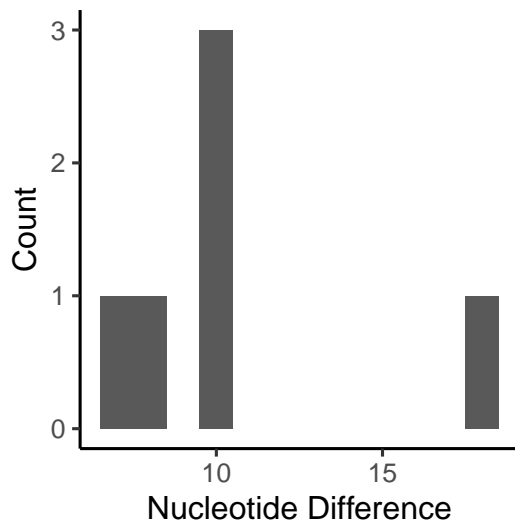
IGHV4–NL_43*01_S4510

12 sequences assigned
No exact matches.



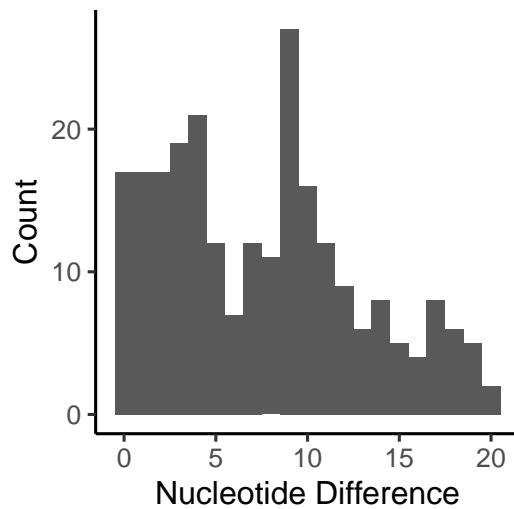
IGHV4–NL_25*01_S2780

22 sequences assigned
No exact matches.



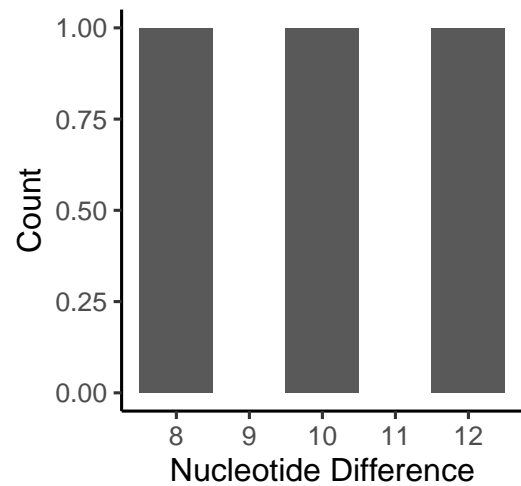
IGHV4–NL_36*01_S8200

265 sequences assigned
17 (6.4%) exact matches, in which:
16 unique CDR3
1 unique J



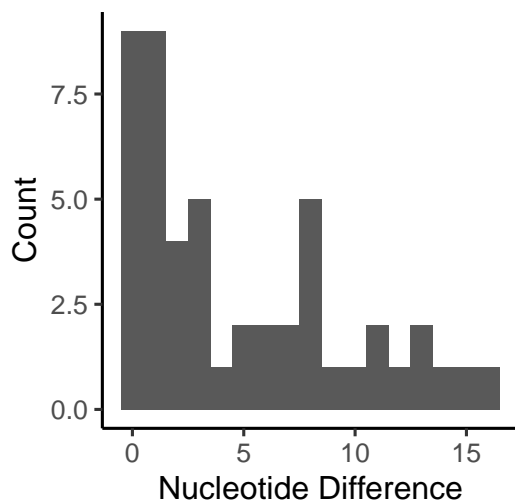
IGHV4–NL_5*01_S5158

3 sequences assigned
No exact matches.



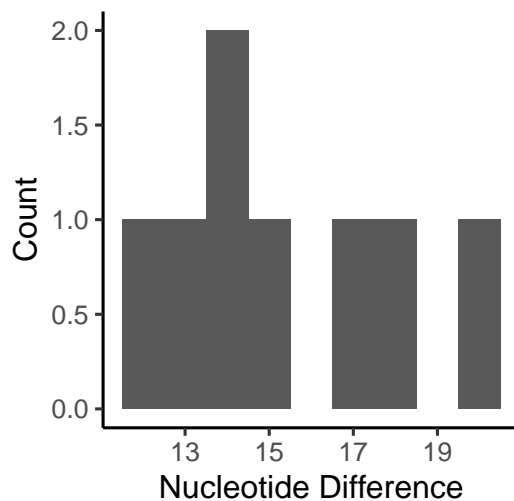
IGHV4–NL_31*01_S7693

49 sequences assigned
9 (18.4%) exact matches, in which:
7 unique CDR3
1 unique J



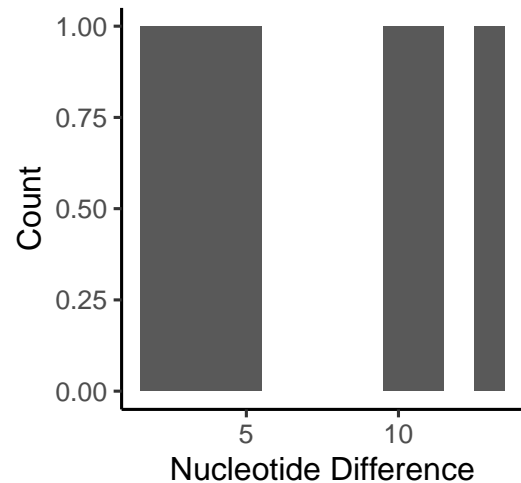
IGHV4–NL_4*01_S5211

10 sequences assigned
No exact matches.



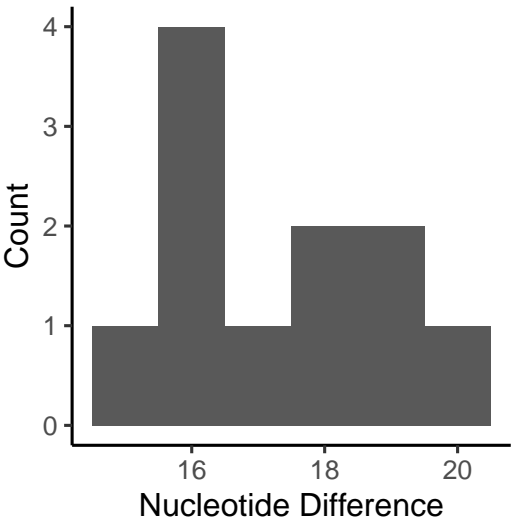
IGHV4–NL_5*01_S8078

7 sequences assigned
No exact matches.



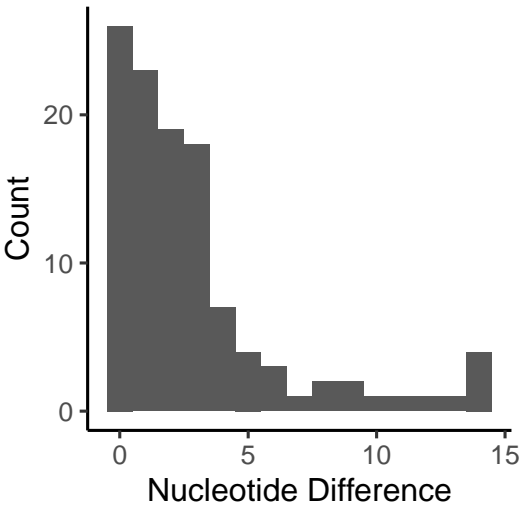
IGHV4–NL_9*01_S4990

14 sequences assigned
No exact matches.



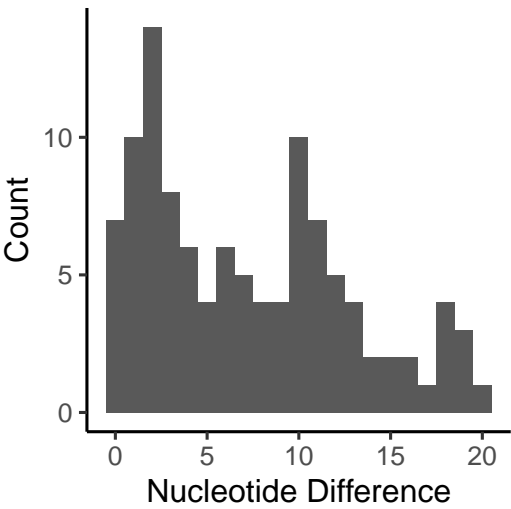
IGHV5–157*01_S3631

113 sequences assigned
26 (23%) exact matches, in which:
14 unique CDR3
1 unique J



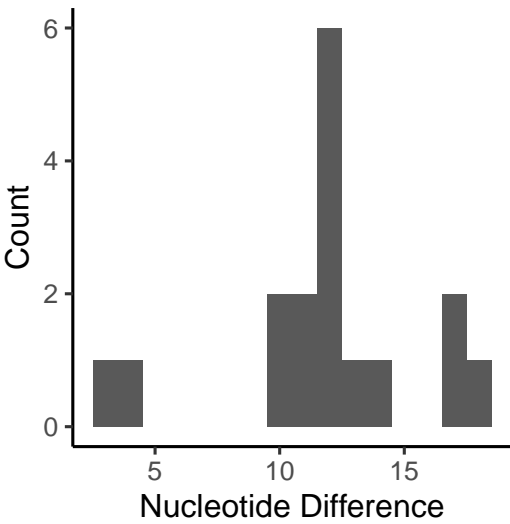
IGHV5–15*01_S0203

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



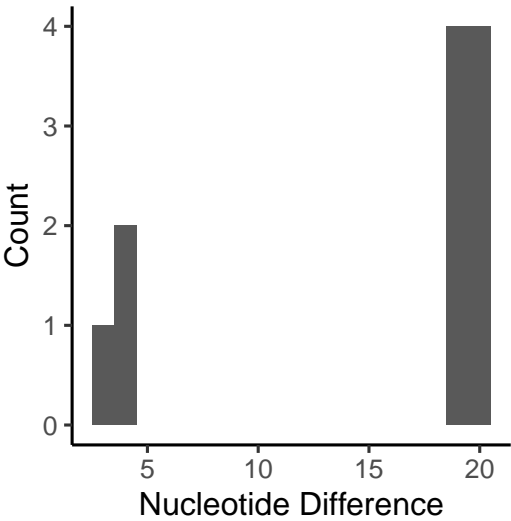
IGHV5–157*02_S3096

18 sequences assigned
No exact matches.

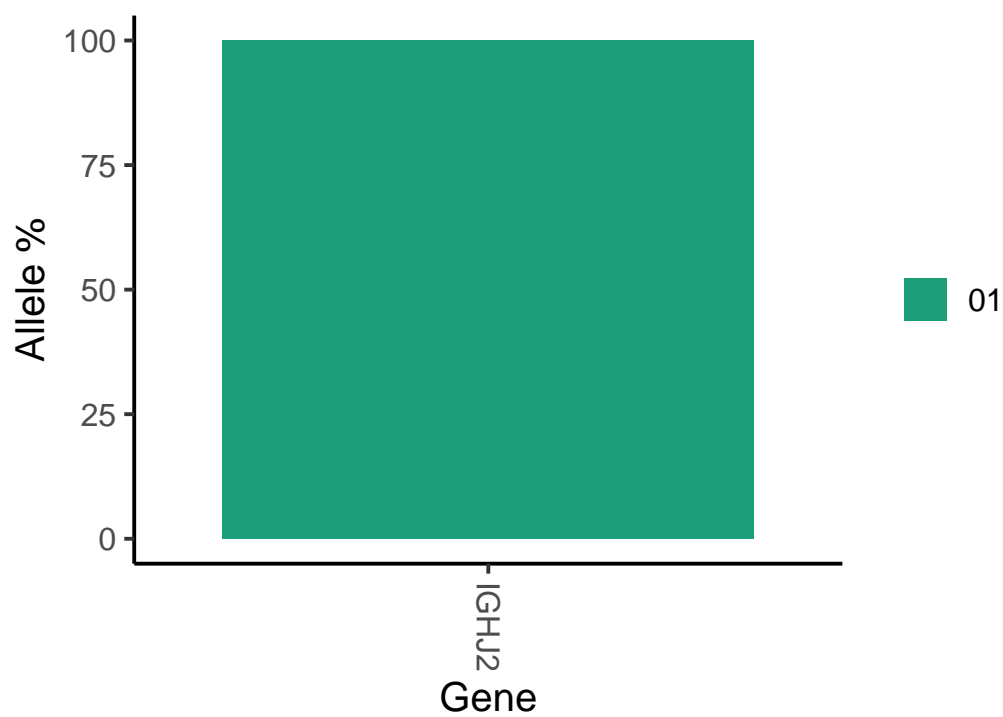


IGHV5–15*01_S2502

17 sequences assigned
No exact matches.



Allele Usage



Warning – no inferred sequences found.