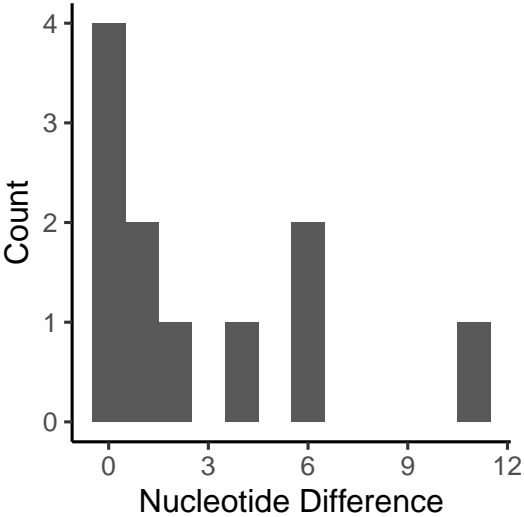


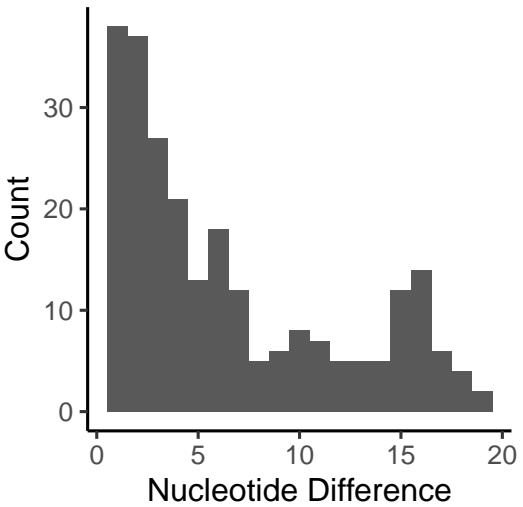
IGHV1-138*01_S2054

11 sequences assigned
4 (36.4%) exact matches, in which:
4 unique CDR3
1 unique J



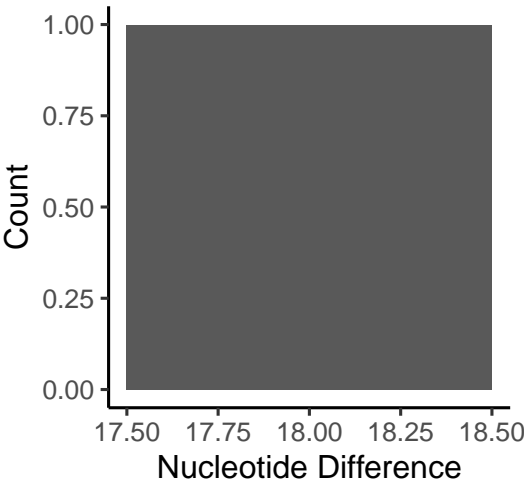
IGHV2-69*01_S8735

256 sequences assigned
No exact matches.



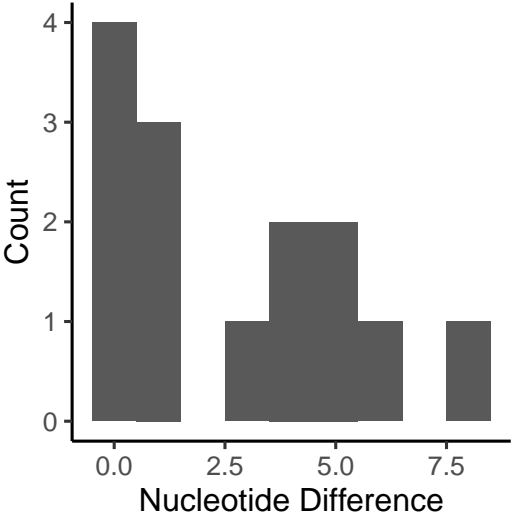
IGHV3-28*01_S3792

1 sequences assigned
No exact matches.



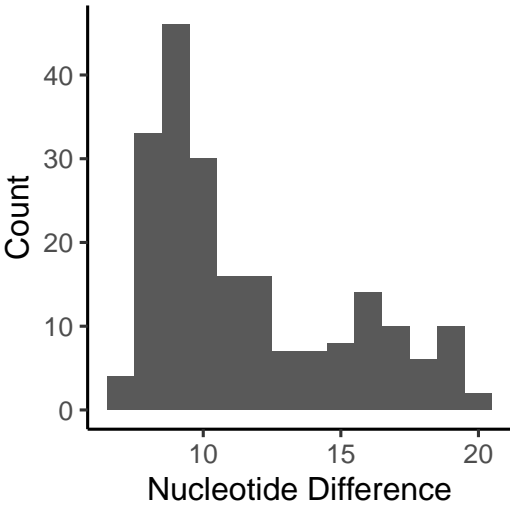
IGHV2-7*02_S1732

14 sequences assigned
4 (28.6%) exact matches, in which:
2 unique CDR3
1 unique J



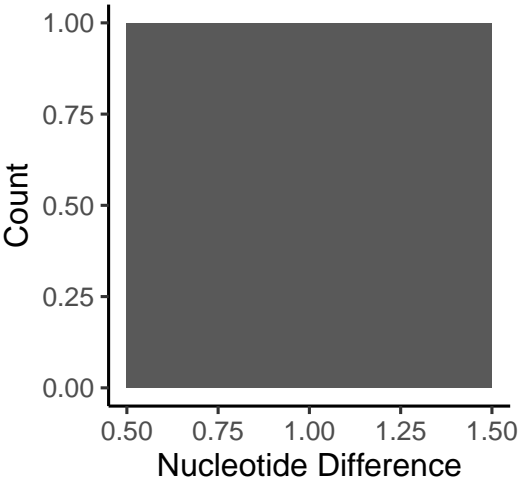
IGHV2-NL_1*01_S2133

215 sequences assigned
No exact matches.



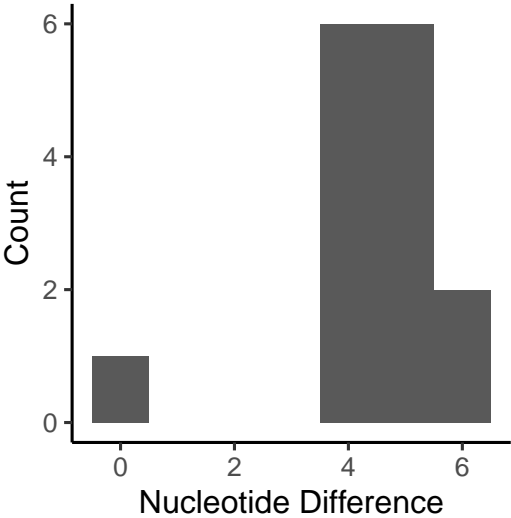
IGHV3-36*01_S5206

1 sequences assigned
No exact matches.



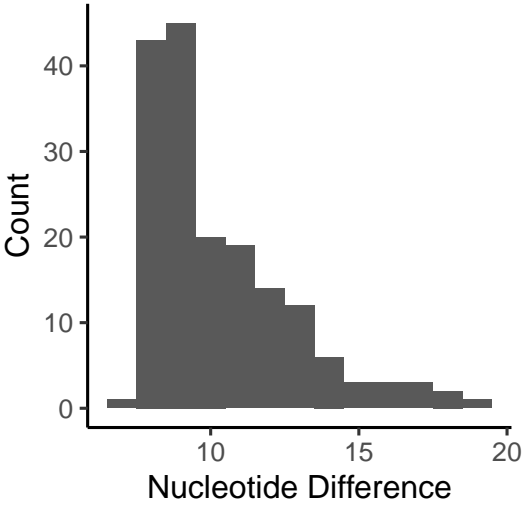
IGHV2-7*02_S4285

16 sequences assigned
1 (6.2%) exact matches, in which:
1 unique CDR3
1 unique J



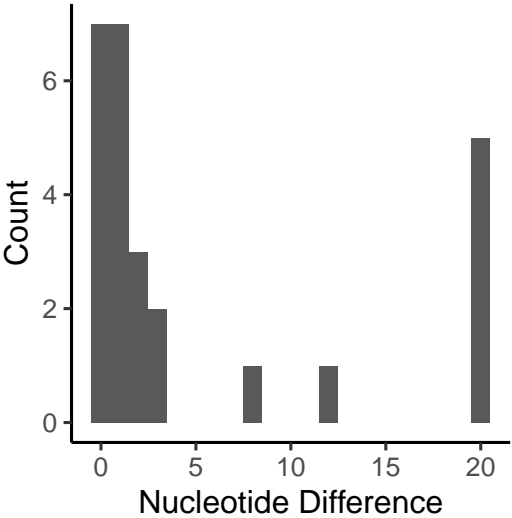
IGHV2-NL_1*01_S5431

188 sequences assigned
No exact matches.



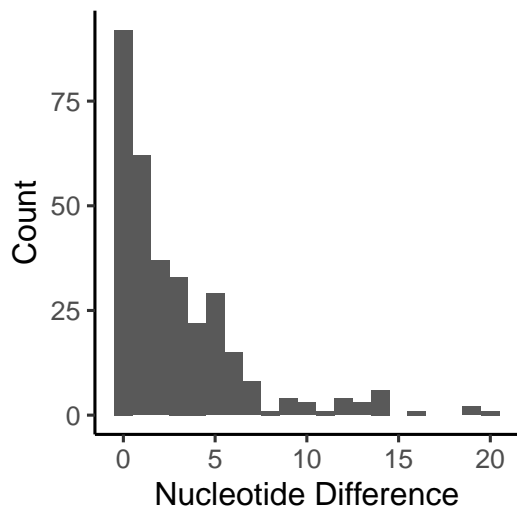
IGHV3-37*01_S6630

52 sequences assigned
7 (13.5%) exact matches, in which:
5 unique CDR3
1 unique J



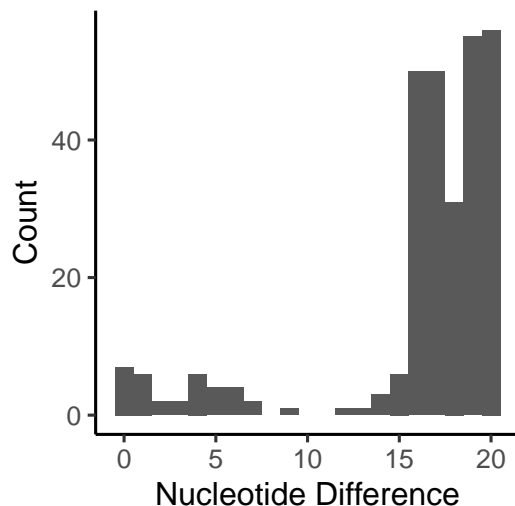
IGHV3-50*01_S1879

341 sequences assigned
92 (27%) exact matches, in which:
52 unique CDR3
1 unique J



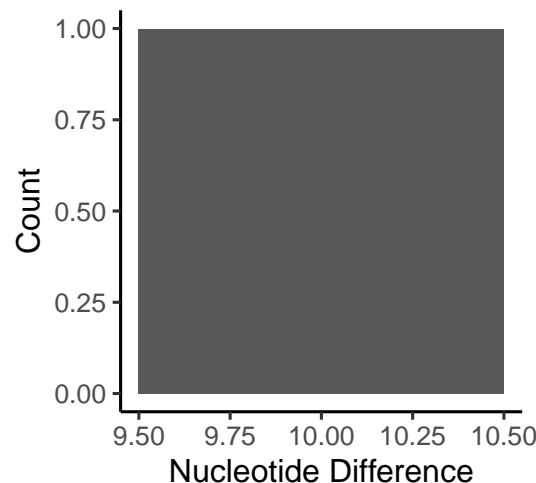
IGHV3-128*02_S0204

525 sequences assigned
7 (1.3%) exact matches, in which:
4 unique CDR3
1 unique J



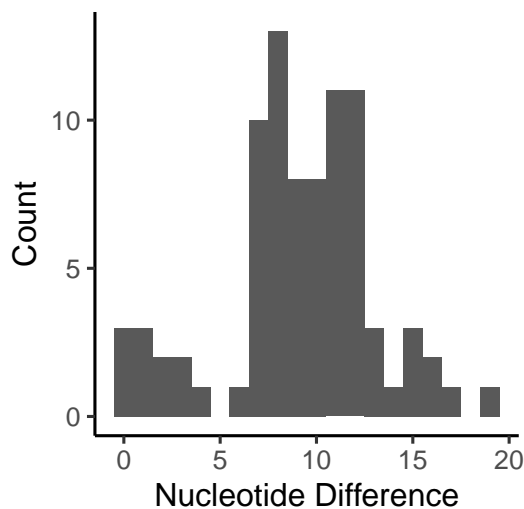
IGHV3-177*01_S6408

2 sequences assigned
No exact matches.



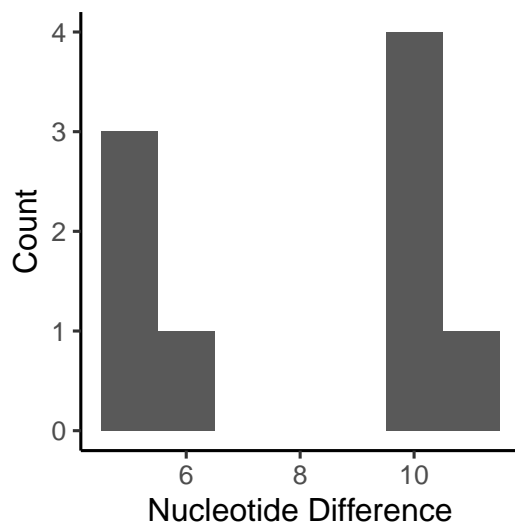
IGHV3-53*01_S3647

84 sequences assigned
3 (3.6%) exact matches, in which:
3 unique CDR3
1 unique J



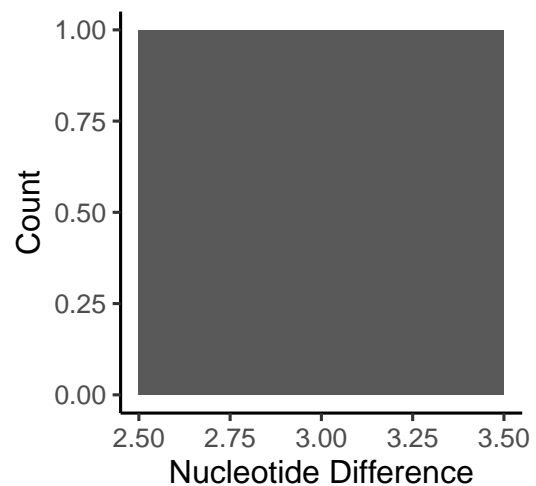
IGHV3-177*01_S1591

9 sequences assigned
No exact matches.



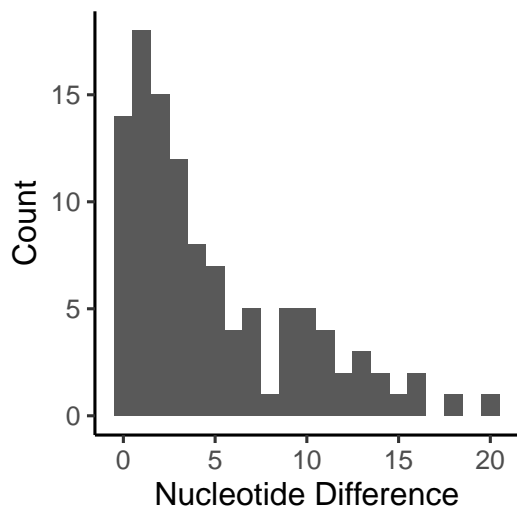
IGHV3-187*01_S4259

1 sequences assigned
No exact matches.



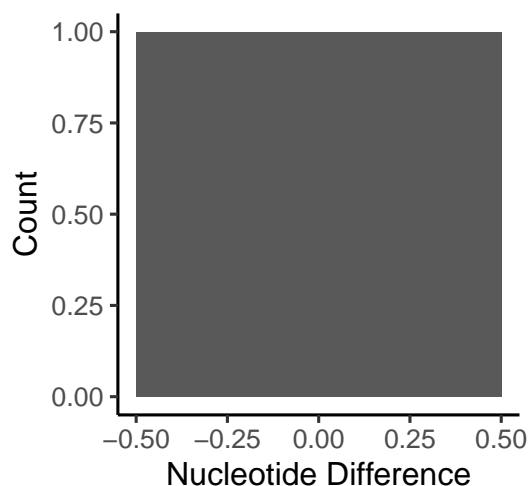
IGHV3-127*01_S5510

112 sequences assigned
14 (12.5%) exact matches, in which:
9 unique CDR3
1 unique J



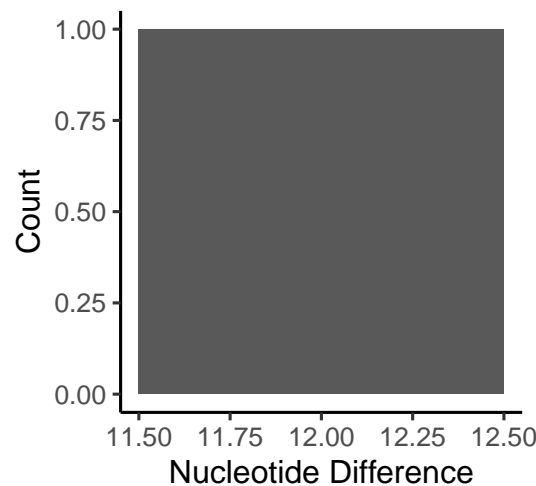
IGHV3-177*01_S5369

1 sequences assigned
1 (100%) exact matches, in which:
1 unique CDR3
1 unique J



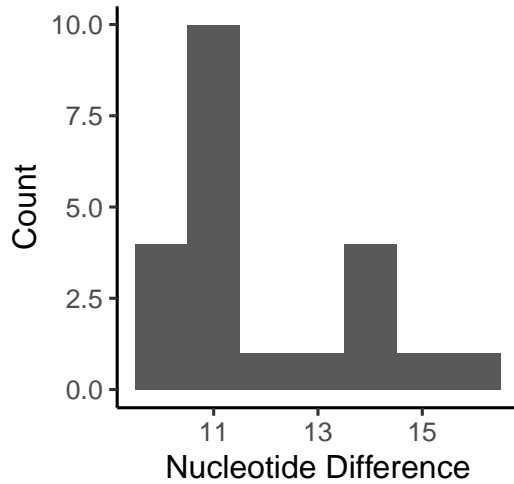
IGHV3-187*01_S6840

1 sequences assigned
No exact matches.



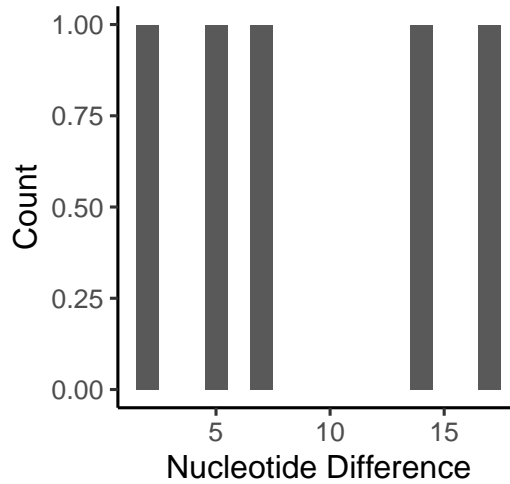
IGHV3-NL_1*01_S4331

31 sequences assigned
No exact matches.



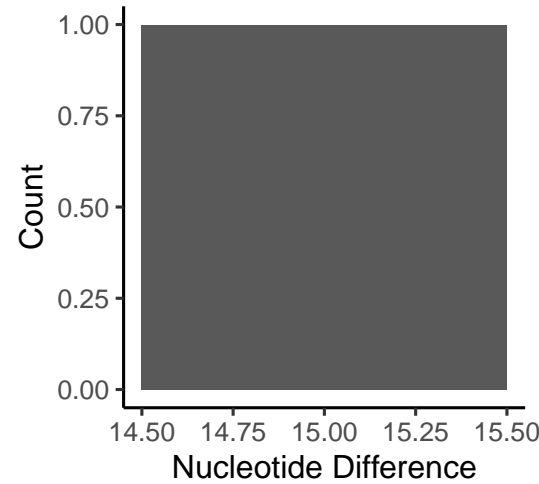
IGHV3-NL_17*01_S0507

6 sequences assigned
No exact matches.



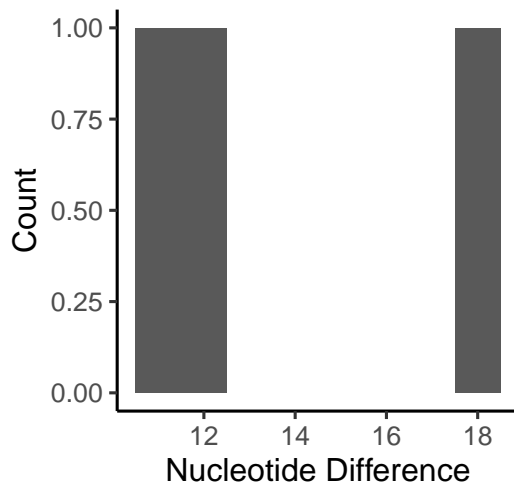
IGHV3-NL_4*01_S9635

1 sequences assigned
No exact matches.



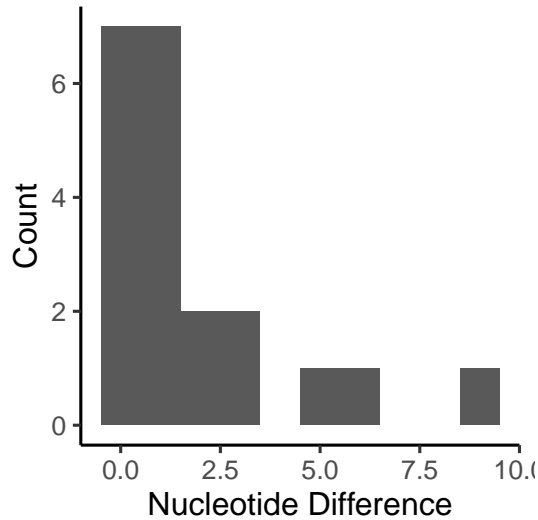
IGHV3-NL_10*02_S2212

4 sequences assigned
No exact matches.



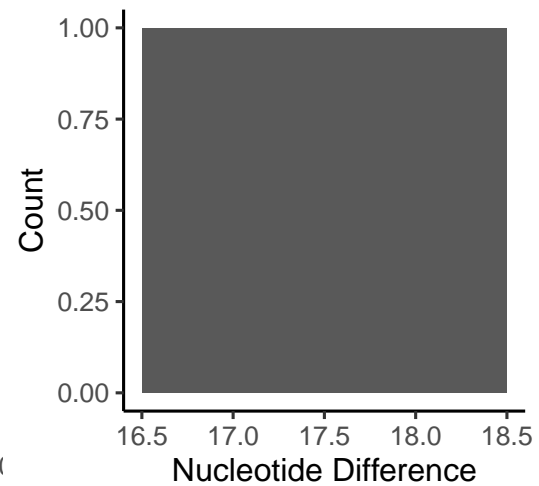
IGHV3-NL_17*01_S4250

21 sequences assigned
7 (33.3%) exact matches, in which:
4 unique CDR3
1 unique J



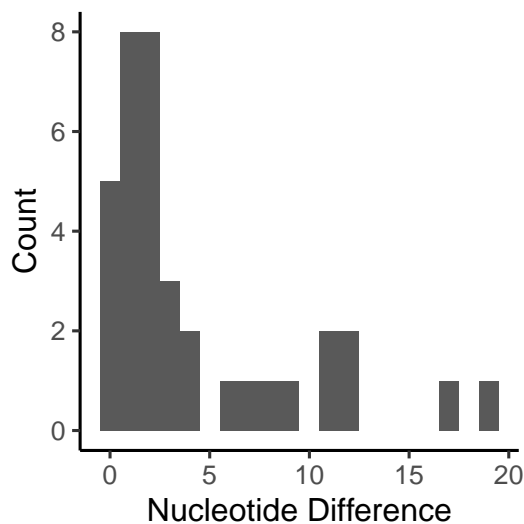
IGHV3-NL_6*02_S7808

3 sequences assigned
No exact matches.



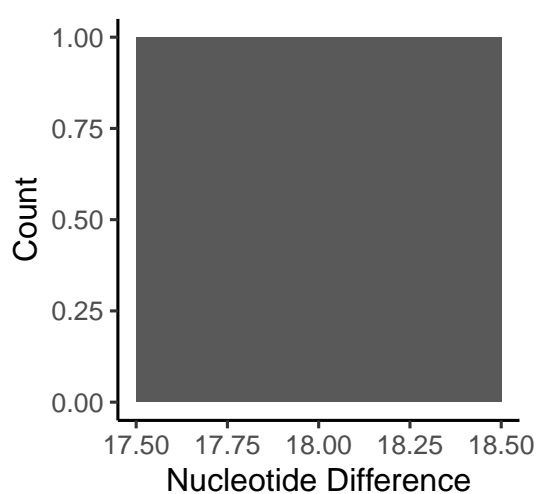
IGHV3-NL_11*01_S5714

37 sequences assigned
5 (13.5%) exact matches, in which:
5 unique CDR3
1 unique J



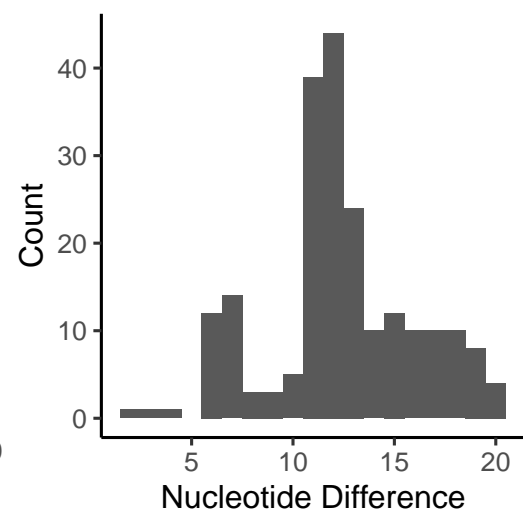
IGHV3-NL_4*01_S2727

1 sequences assigned
No exact matches.



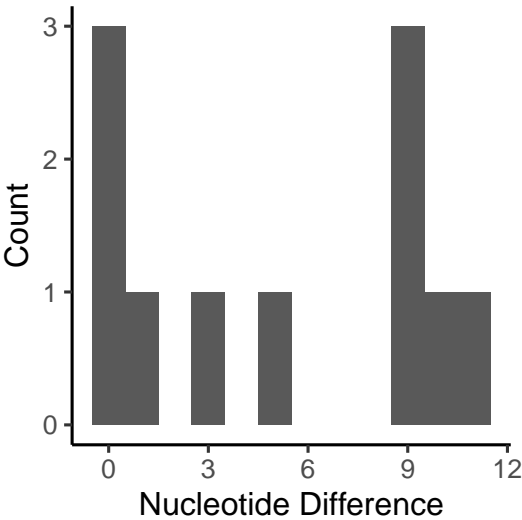
IGHV3-NL_9*01_S6098

231 sequences assigned
No exact matches.



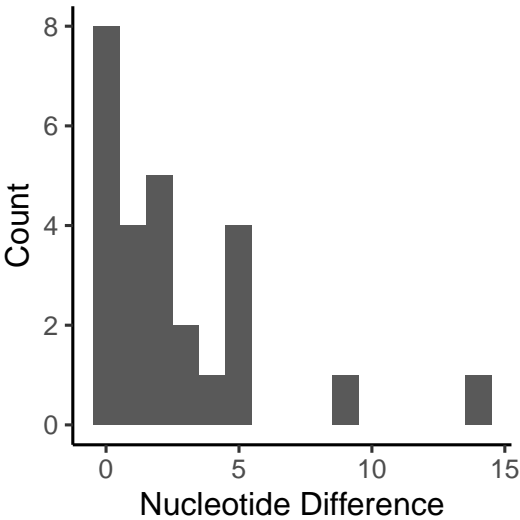
IGHV4-149*02_S6878

11 sequences assigned
3 (27.3%) exact matches, in which:
3 unique CDR3
1 unique J



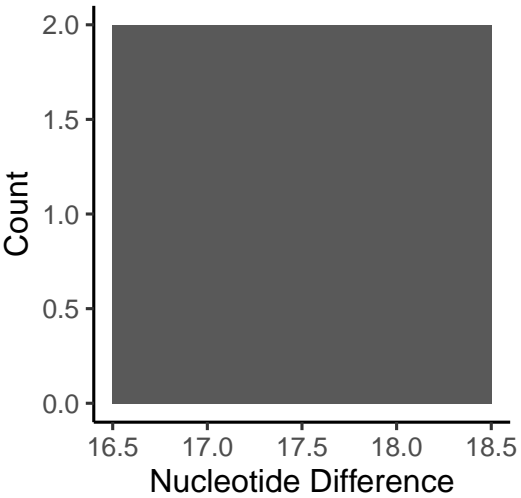
IGHV4-NL_1*01_S1908

30 sequences assigned
8 (26.7%) exact matches, in which:
5 unique CDR3
1 unique J



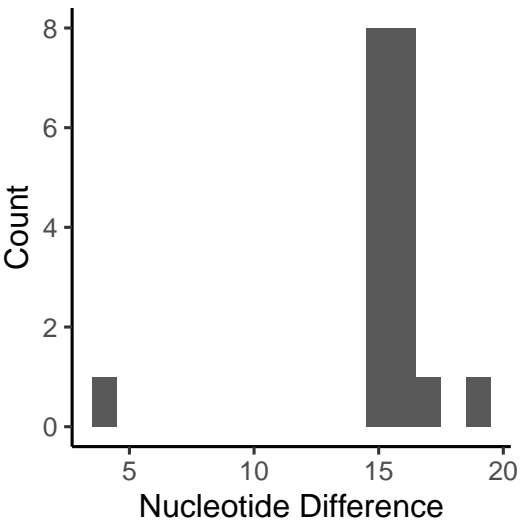
IGHV4-NL_12*01_S5174

7 sequences assigned
No exact matches.



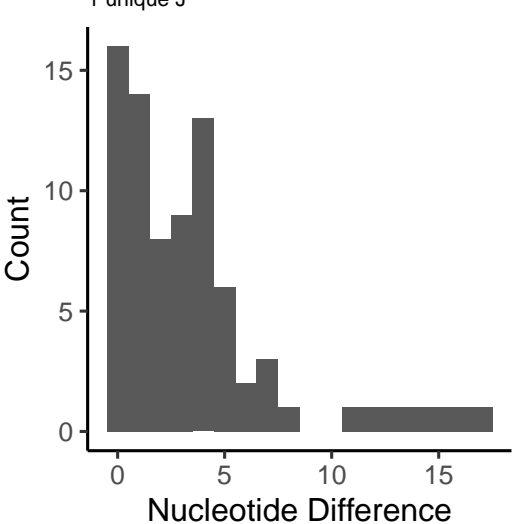
IGHV4-149*02_S8521

31 sequences assigned
No exact matches.



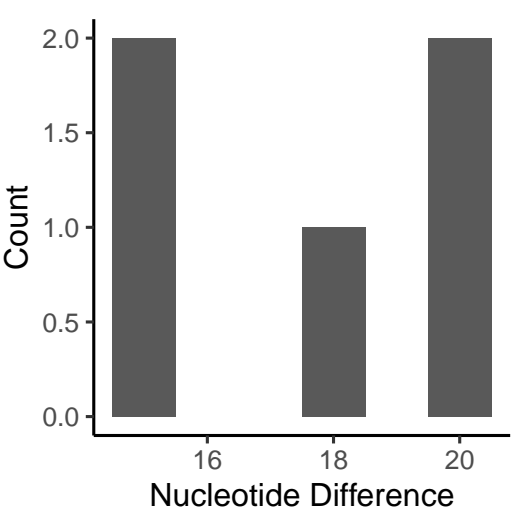
IGHV4-NL_1*01_S8720

81 sequences assigned
16 (19.8%) exact matches, in which:
15 unique CDR3
1 unique J



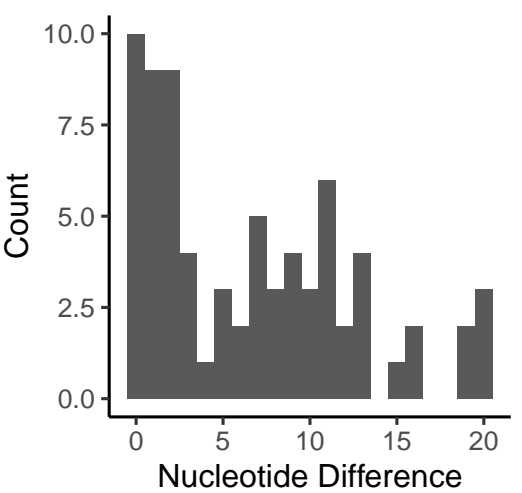
IGHV4-NL_13*01_S9624

6 sequences assigned
No exact matches.



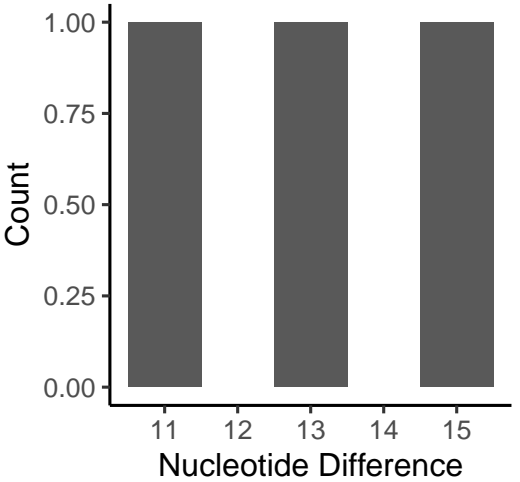
IGHV4-NL_1*01_S0860

76 sequences assigned
10 (13.2%) exact matches, in which:
9 unique CDR3
1 unique J



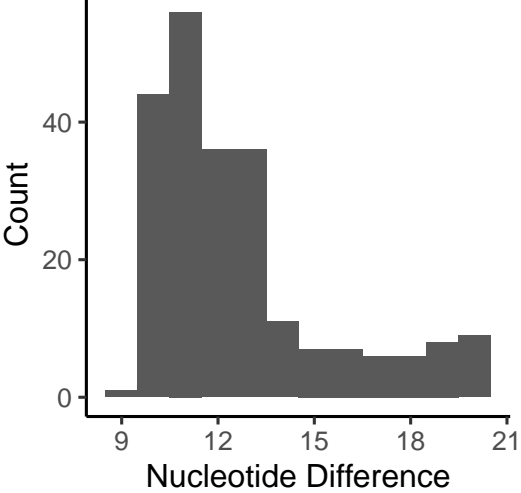
IGHV4-NL_11*01_S5570

5 sequences assigned
No exact matches.



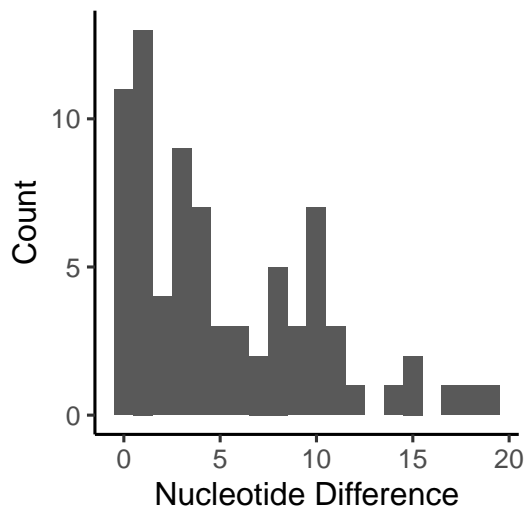
IGHV4-NL_13*01_S9744

266 sequences assigned
No exact matches.



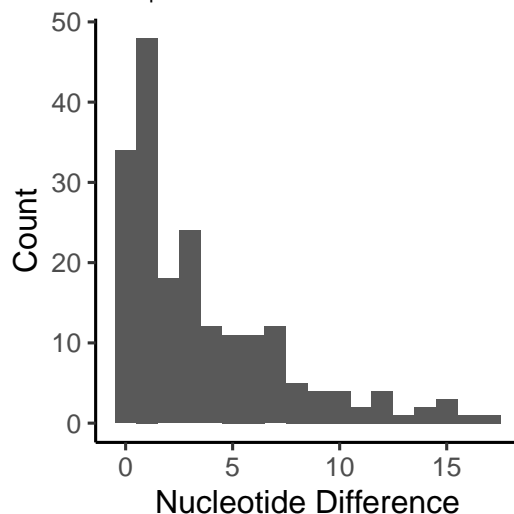
IGHV4–NL_16*01_S2324

82 sequences assigned
11 (13.4%) exact matches, in which:
10 unique CDR3
1 unique J



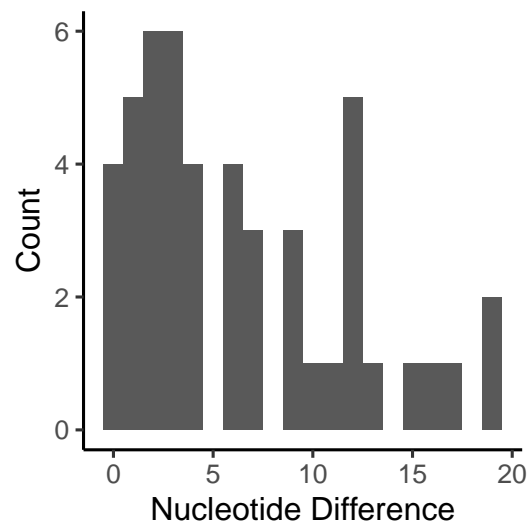
IGHV4–NL_21*01_S0138

199 sequences assigned
34 (17.1%) exact matches, in which:
26 unique CDR3
1 unique J



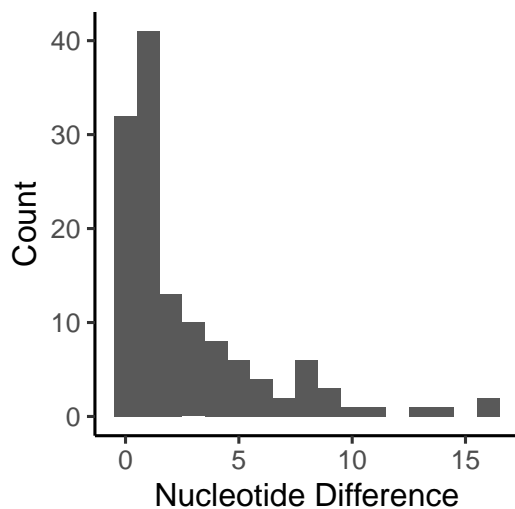
IGHV4–NL_23*01_S7000

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



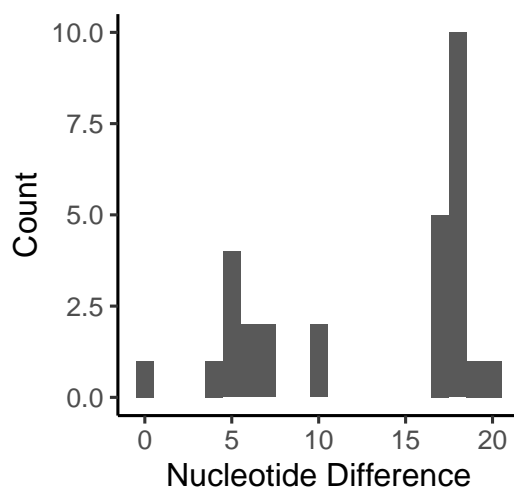
IGHV4–NL_17*01_S0904

132 sequences assigned
32 (24.2%) exact matches, in which:
18 unique CDR3
1 unique J



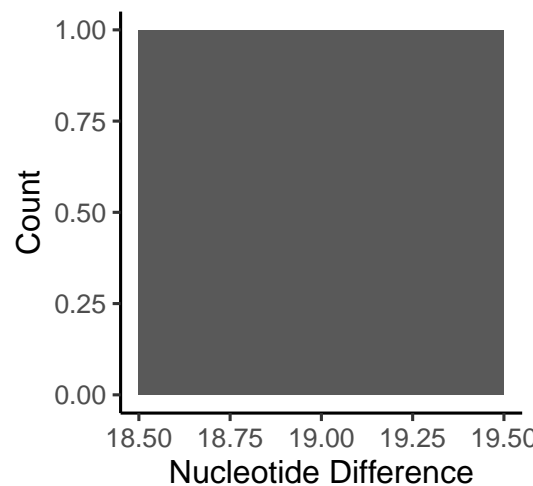
IGHV4–NL_21*01_S6308

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



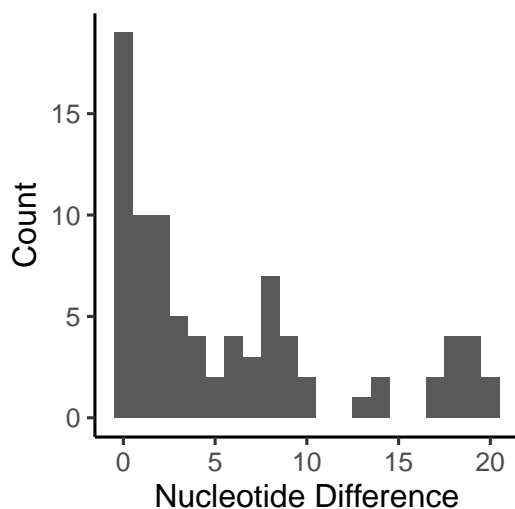
IGHV4–NL_29*01_S3768

1 sequences assigned
No exact matches.



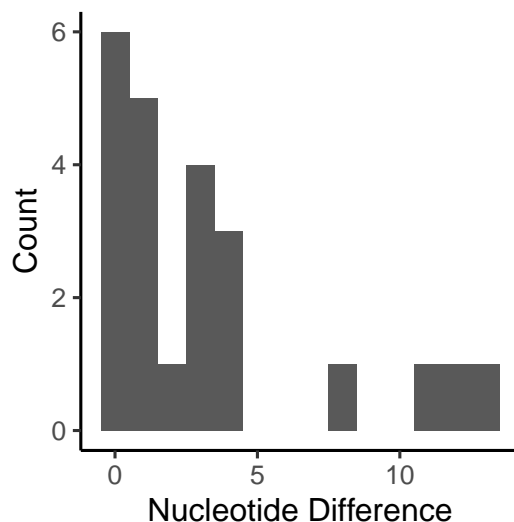
IGHV4–NL_17*01_S4099

86 sequences assigned
19 (22.1%) exact matches, in which:
12 unique CDR3
1 unique J



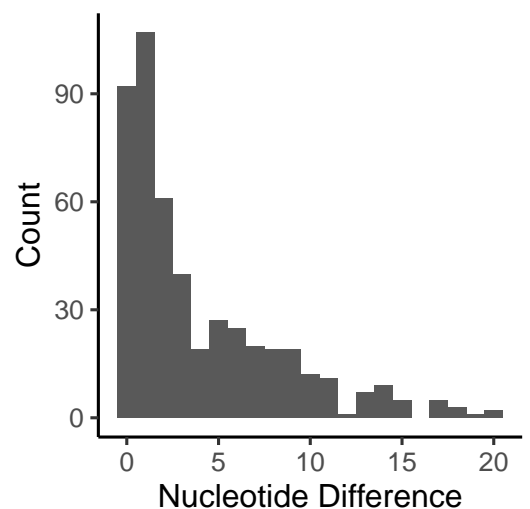
IGHV4–NL_23*01_S1296

28 sequences assigned
6 (21.4%) exact matches, in which:
5 unique CDR3
1 unique J



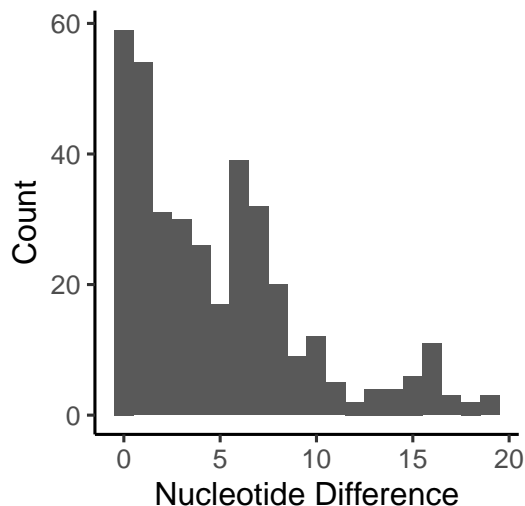
IGHV4–NL_33*01_S4377

499 sequences assigned
92 (18.4%) exact matches, in which:
66 unique CDR3
1 unique J



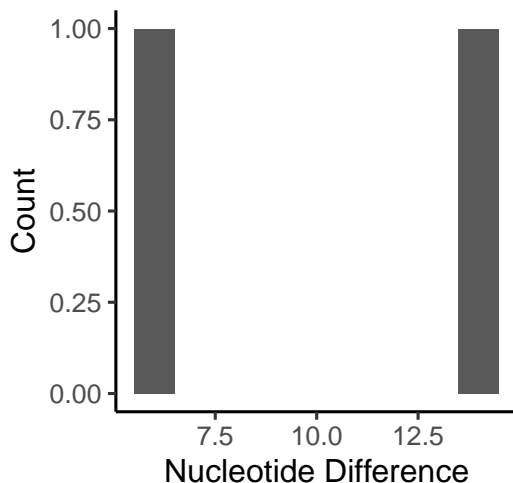
IGHV4–NL_36*01_S8200

374 sequences assigned
59 (15.8%) exact matches, in which:
44 unique CDR3
1 unique J



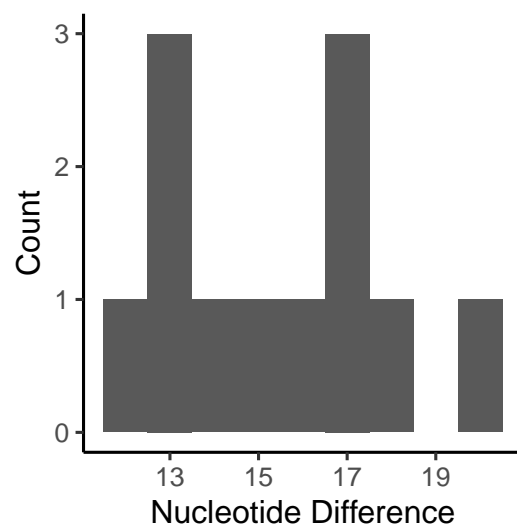
IGHV4–NL_5*01_S5308

3 sequences assigned
No exact matches.



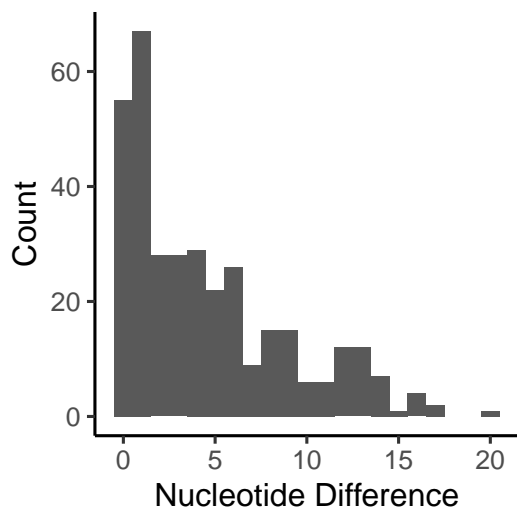
IGHV4–NL_9*01_S4990

14 sequences assigned
No exact matches.



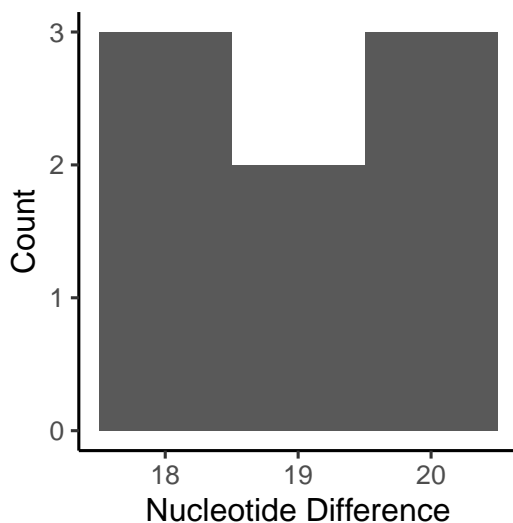
IGHV4–NL_38*01_S8437

383 sequences assigned
55 (14.4%) exact matches, in which:
41 unique CDR3
1 unique J



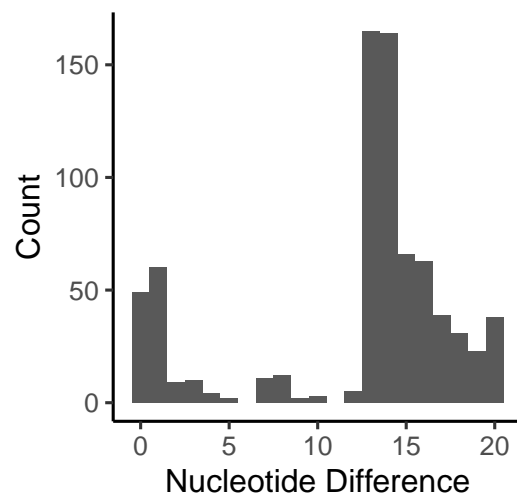
IGHV4–NL_5*01_S8913

18 sequences assigned
No exact matches.



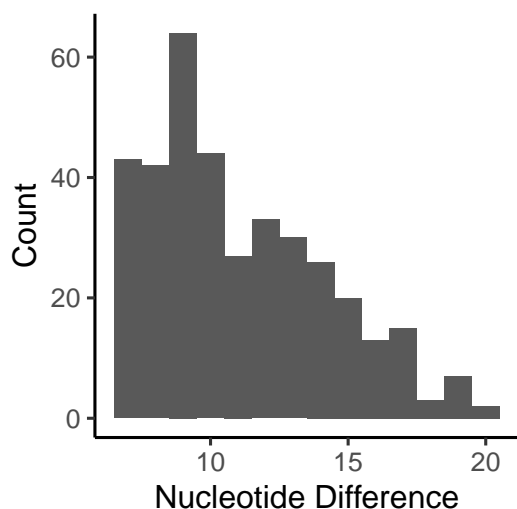
IGHV5–157*01_S3631

844 sequences assigned
49 (5.8%) exact matches, in which:
25 unique CDR3
1 unique J



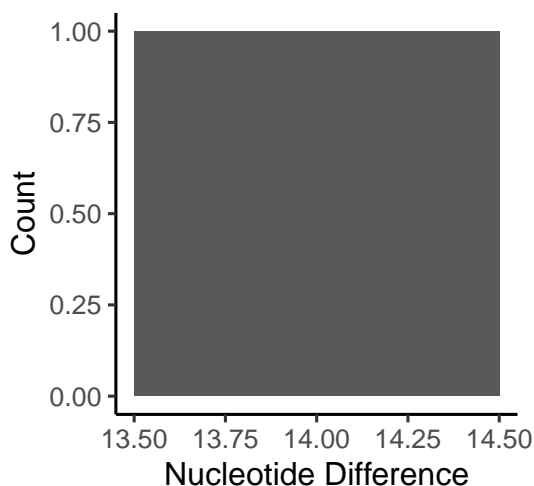
IGHV4–NL_4*01_S5211

390 sequences assigned
No exact matches.



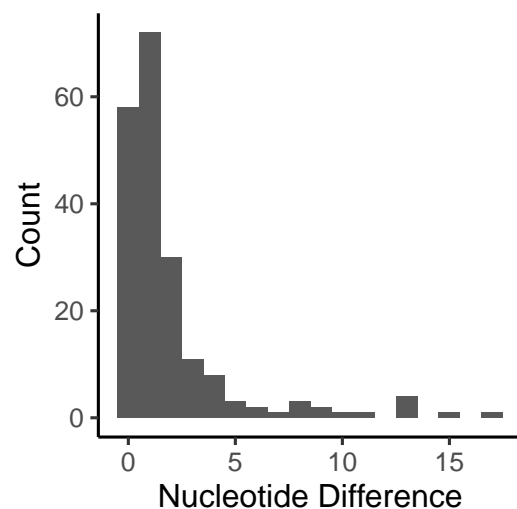
IGHV4–NL_9*01_S4567

3 sequences assigned
No exact matches.

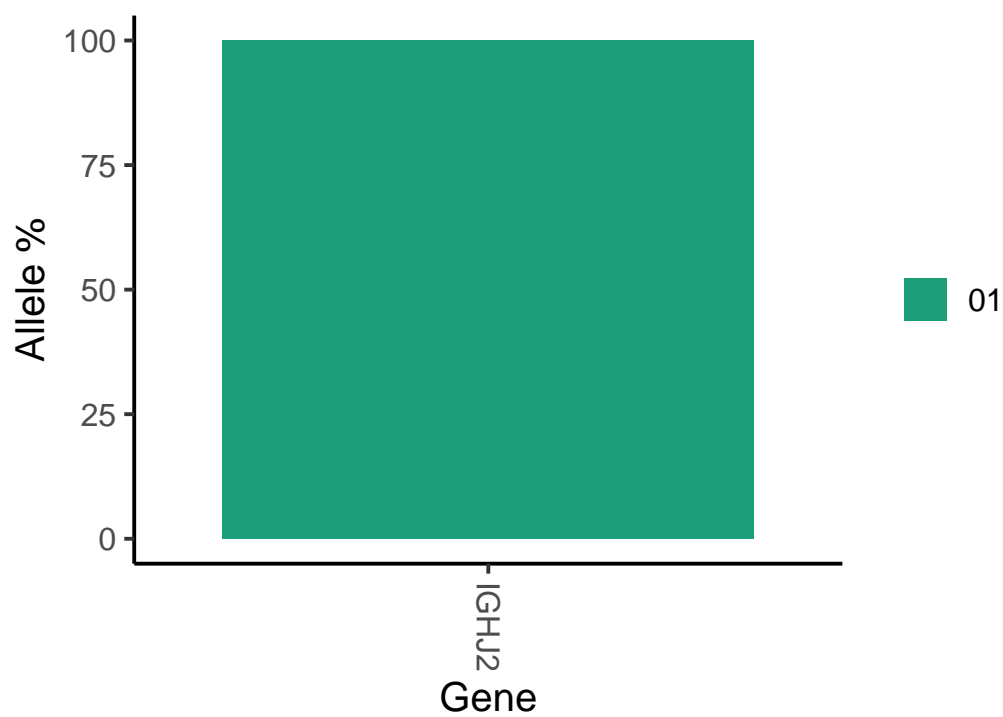


IGHV5–157*01_S8185

212 sequences assigned
58 (27.4%) exact matches, in which:
31 unique CDR3
1 unique J



Allele Usage



Warning – no inferred sequences found.