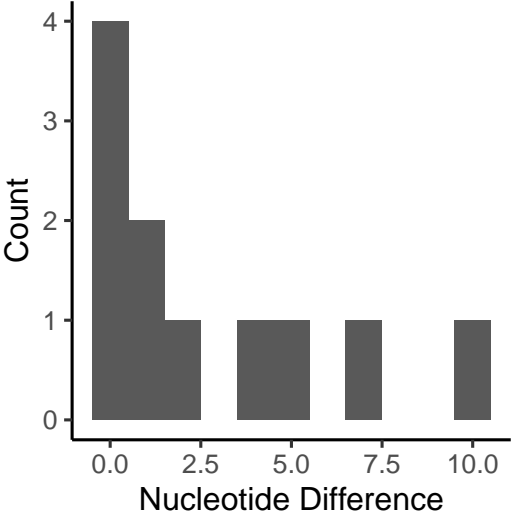


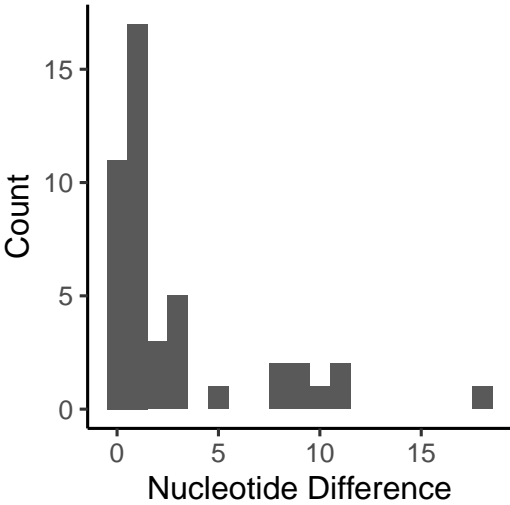
IGHV1-84*01_S9171

21 sequences assigned
4 (19%) exact matches, in which:
2 unique CDR3
1 unique J



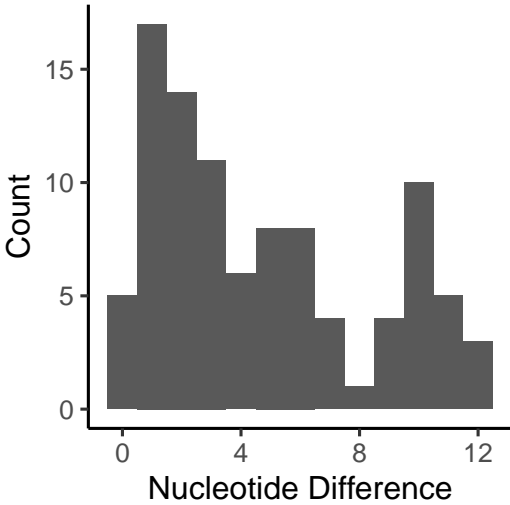
IGHV1-NL_1*01_S2052

61 sequences assigned
11 (18%) exact matches, in which:
5 unique CDR3
1 unique J



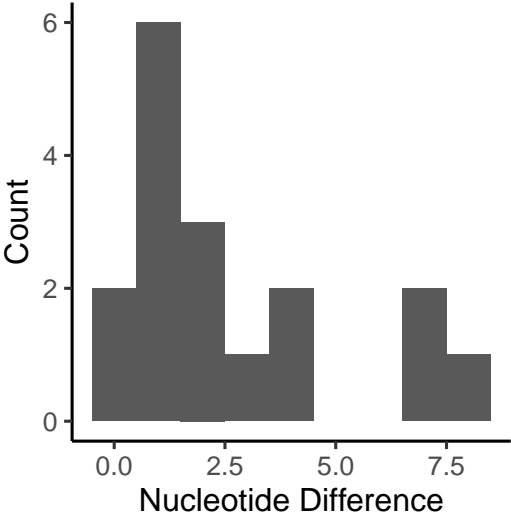
IGHV2-69*01_S6153

96 sequences assigned
5 (5.2%) exact matches, in which:
3 unique CDR3
1 unique J



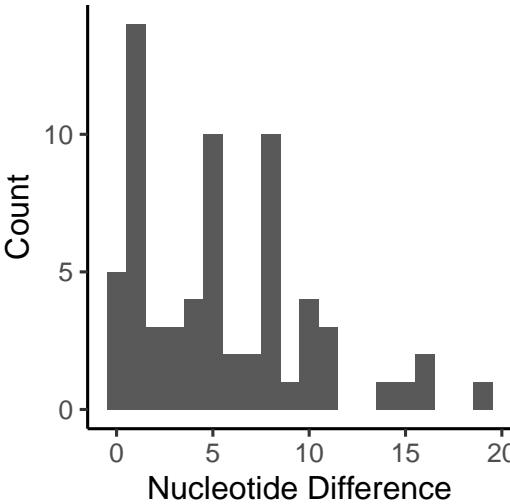
IGHV1-138*01_S2054

17 sequences assigned
2 (11.8%) exact matches, in which:
2 unique CDR3
1 unique J



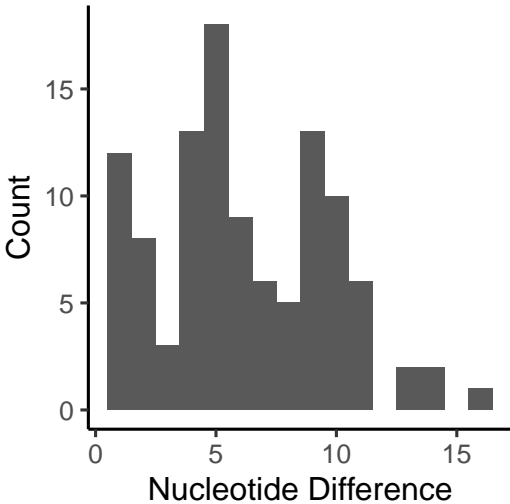
IGHV2-7*02_S1732

66 sequences assigned
5 (7.6%) exact matches, in which:
4 unique CDR3
1 unique J



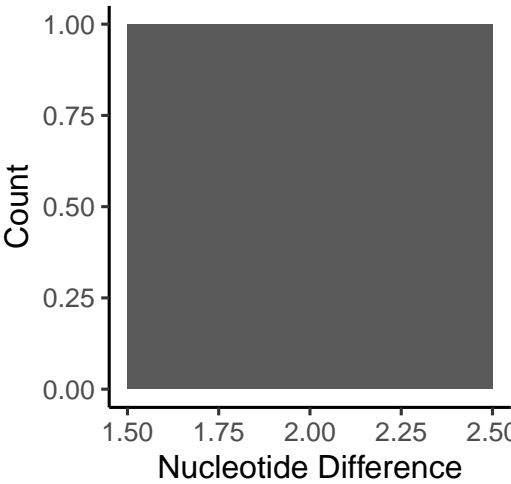
IGHV2-69*01_S8735

108 sequences assigned
No exact matches.



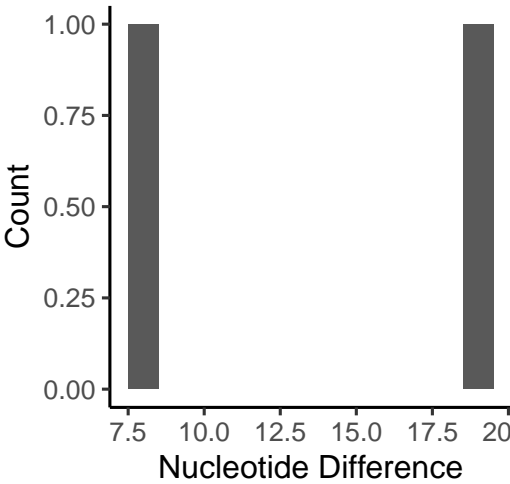
IGHV1-138*01_S2593

1 sequences assigned
No exact matches.



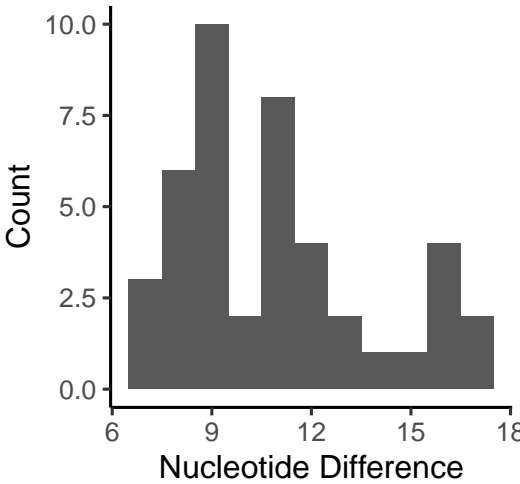
IGHV2-7*02_S4285

3 sequences assigned
No exact matches.



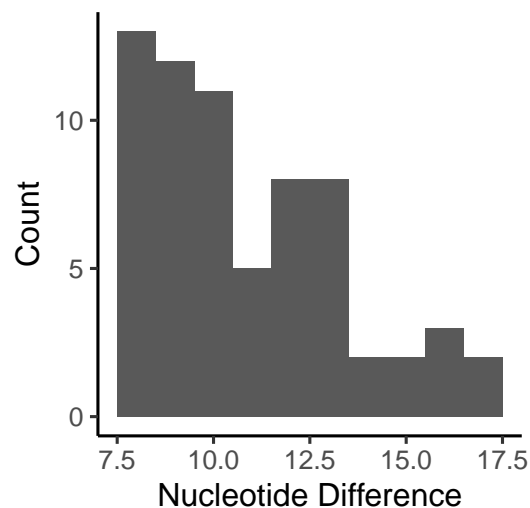
IGHV2-NL_1*01_S2133

44 sequences assigned
No exact matches.



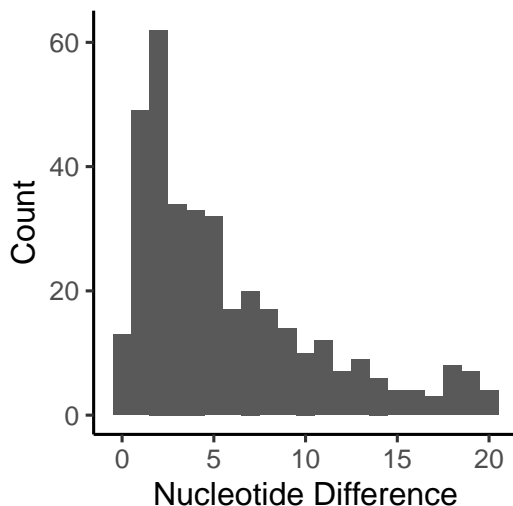
IGHV2–NL_1*01_S5431

66 sequences assigned
No exact matches.



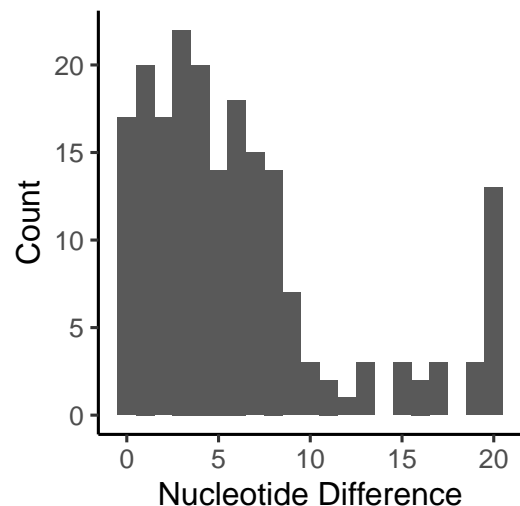
IGHV3–50*01_S1879

376 sequences assigned
13 (3.5%) exact matches, in which:
6 unique CDR3
1 unique J



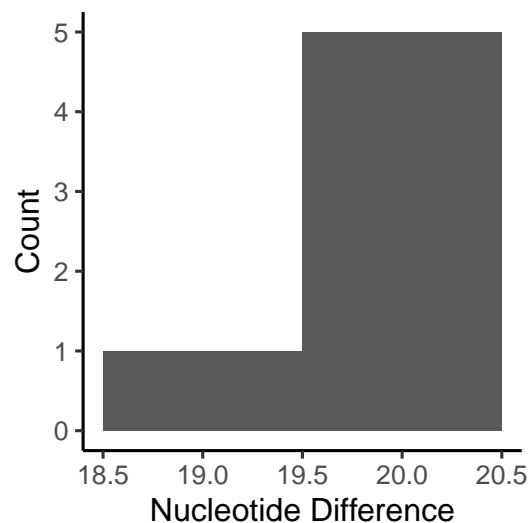
IGHV3–76*02_S4190

214 sequences assigned
17 (7.9%) exact matches, in which:
11 unique CDR3
1 unique J



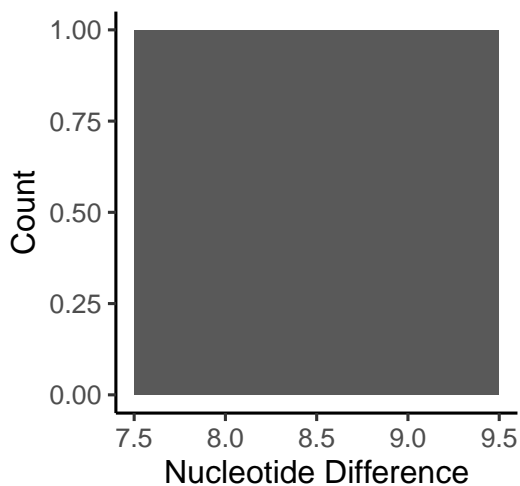
IGHV3–36*01

10 sequences assigned
No exact matches.



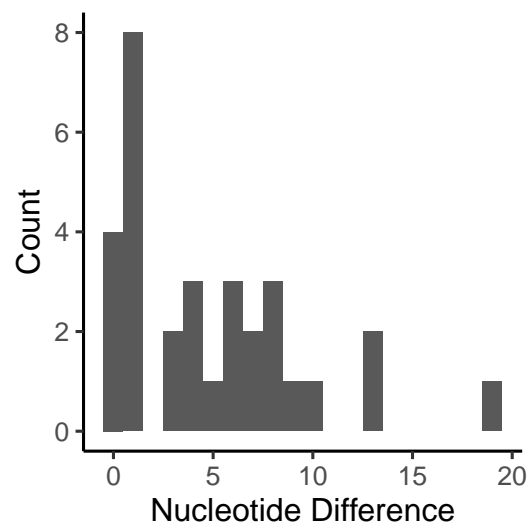
IGHV3–52*01_S8160

2 sequences assigned
No exact matches.



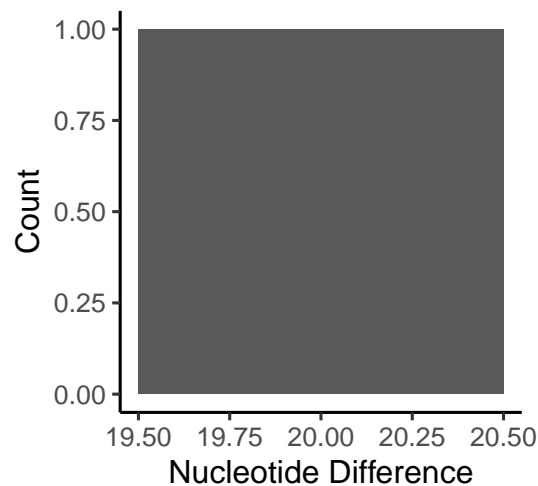
IGHV3–122*01_S8388

32 sequences assigned
4 (12.5%) exact matches, in which:
2 unique CDR3
1 unique J



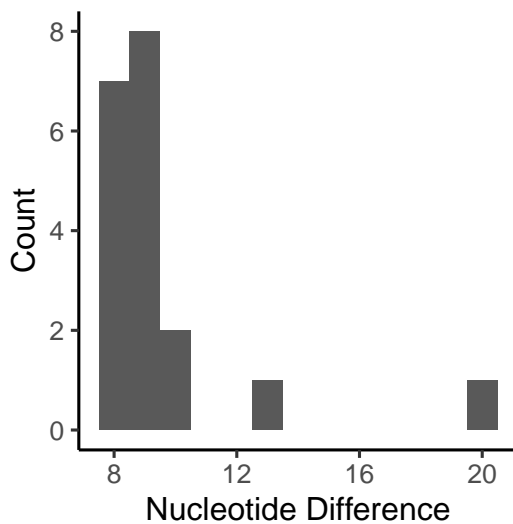
IGHV3–37*01_S9699

13 sequences assigned
No exact matches.



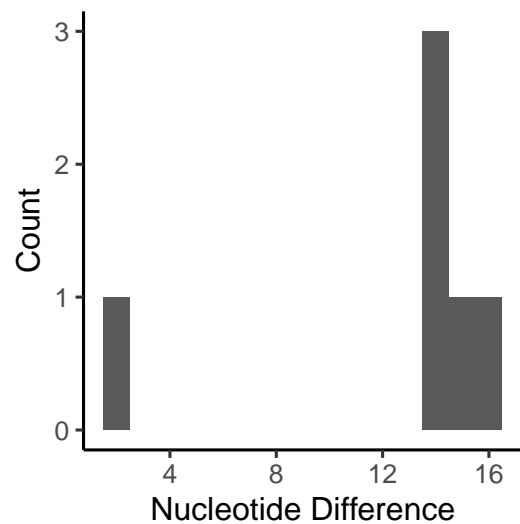
IGHV3–53*01_S4423

20 sequences assigned
No exact matches.



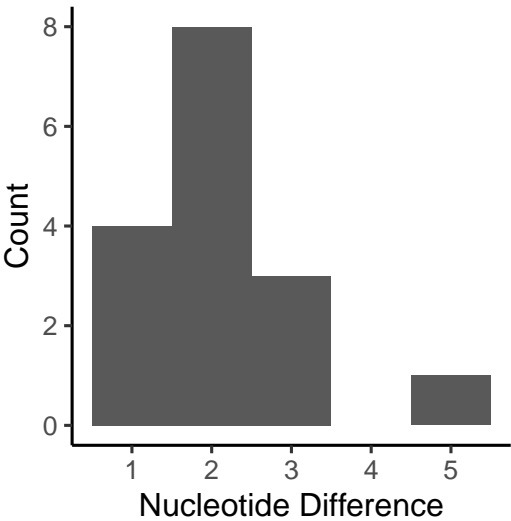
IGHV3–127*01_S5510

6 sequences assigned
No exact matches.



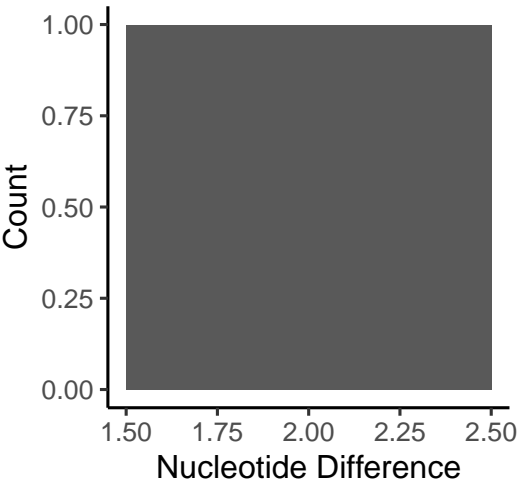
IGHV3-152*01_S5891

16 sequences assigned
No exact matches.



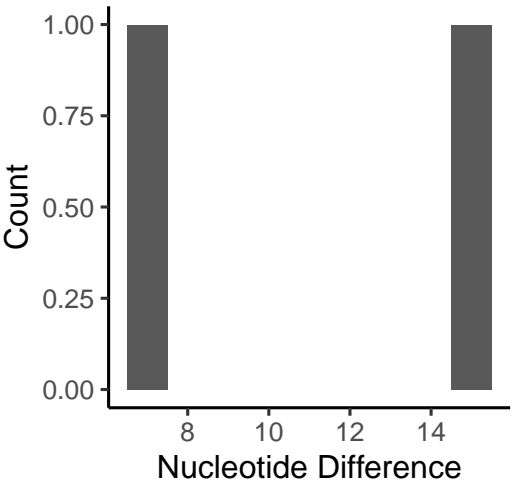
IGHV3-177*01_S1591

1 sequences assigned
No exact matches.



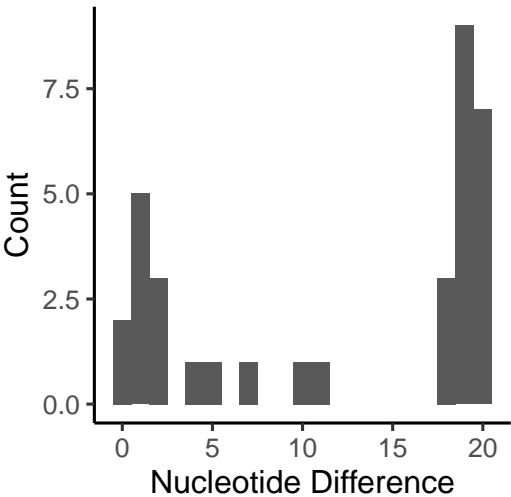
IGHV3-NL_11*01_S3736

2 sequences assigned
No exact matches.



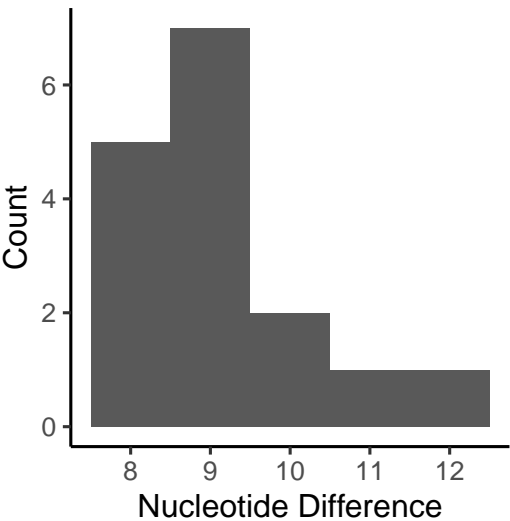
IGHV3-172*01_S2175

63 sequences assigned
2 (3.2%) exact matches, in which:
1 unique CDR3
1 unique J



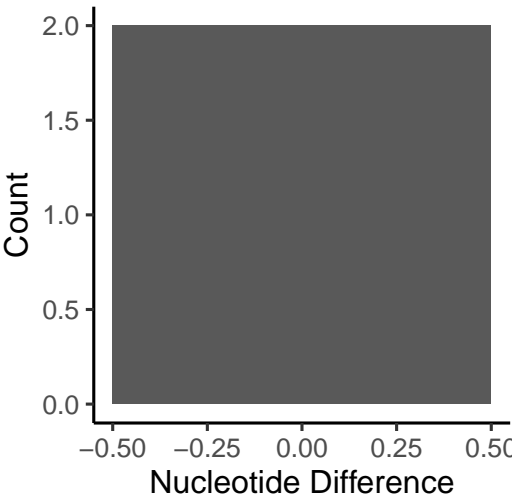
IGHV3-NL_1*01_S4549

18 sequences assigned
No exact matches.



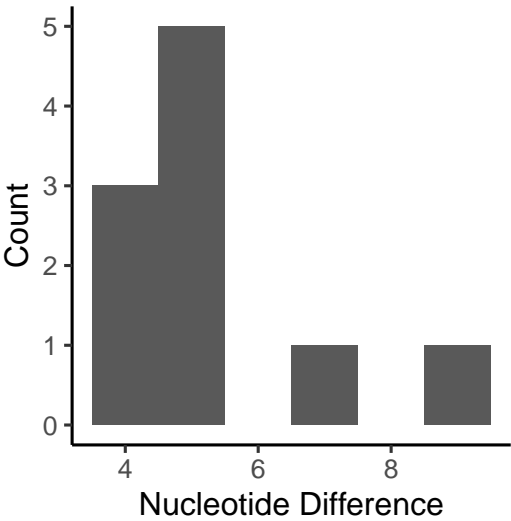
IGHV3-NL_11*01_S4619

2 sequences assigned
2 (100%) exact matches, in which:
2 unique CDR3
1 unique J



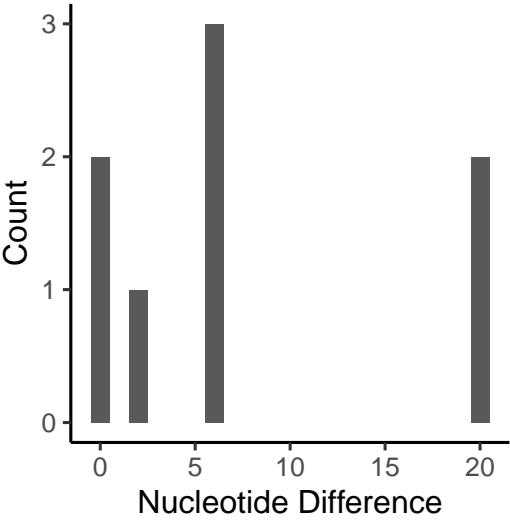
IGHV3-175*01_S1614

10 sequences assigned
No exact matches.



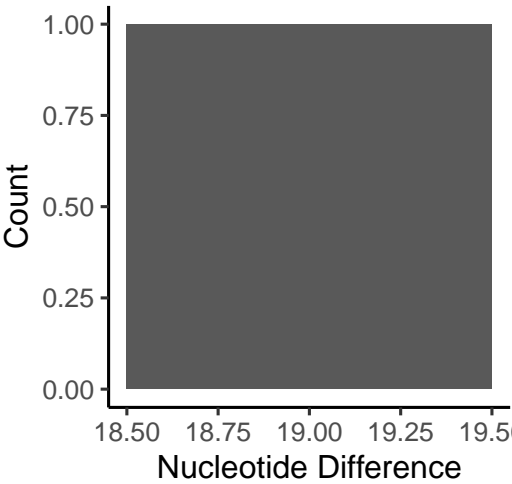
IGHV3-NL_1*01_S9854

33 sequences assigned
2 (6.1%) exact matches, in which:
2 unique CDR3
1 unique J



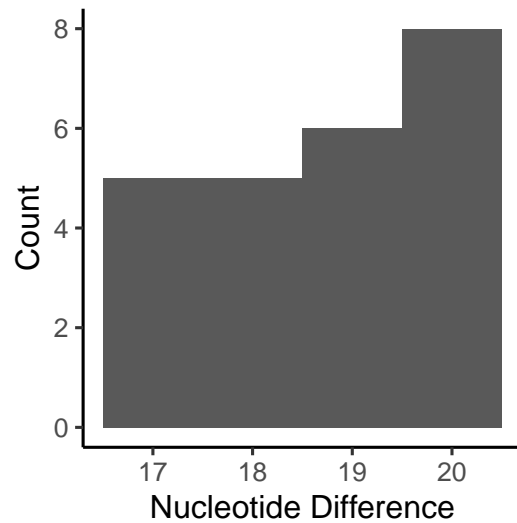
IGHV3-NL_11*01_S8390

1 sequences assigned
No exact matches.



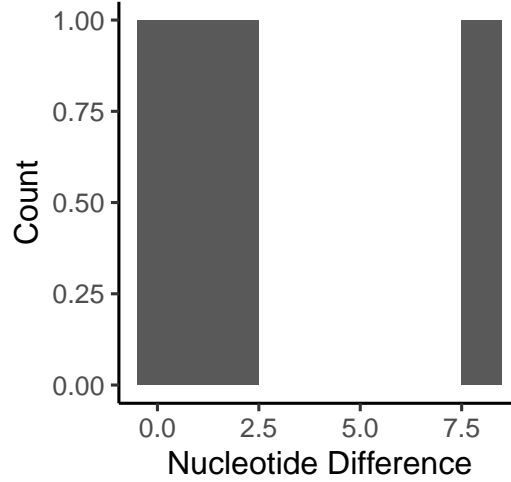
IGHV3–NL_12*02_S6994

87 sequences assigned
No exact matches.



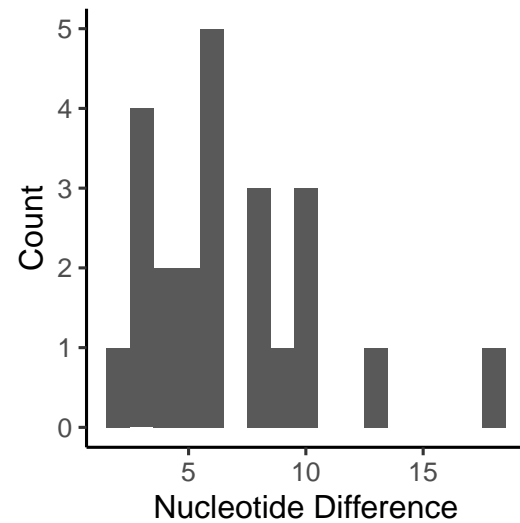
IGHV3–NL_19*01_S5460

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



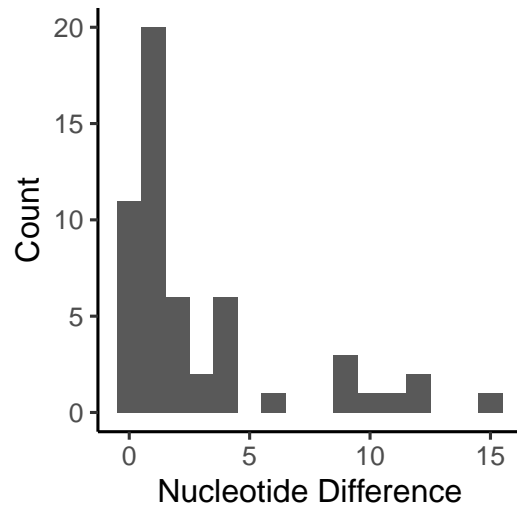
IGHV4–72*01_S8261

24 sequences assigned
No exact matches.



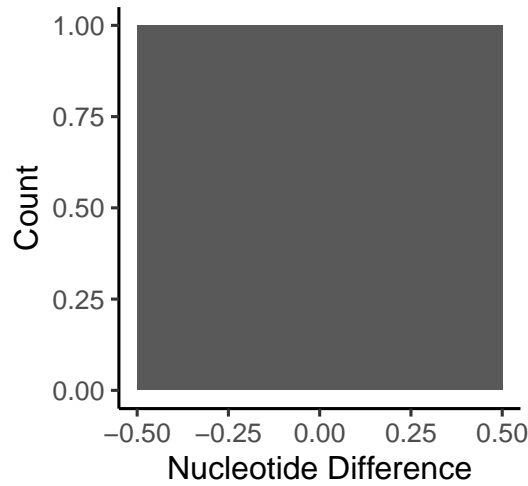
IGHV3–NL_14*01_S1113

54 sequences assigned
11 (20.4%) exact matches, in which:
7 unique CDR3
1 unique J



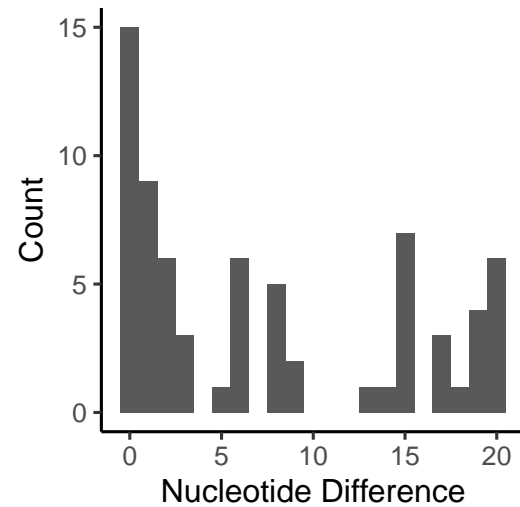
IGHV3–NL_19*01_S6894

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



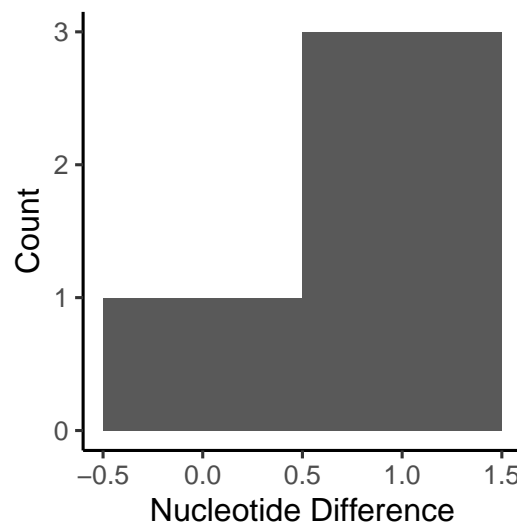
IGHV4–79*02_S9501

83 sequences assigned
15 (18.1%) exact matches, in which:
13 unique CDR3
1 unique J



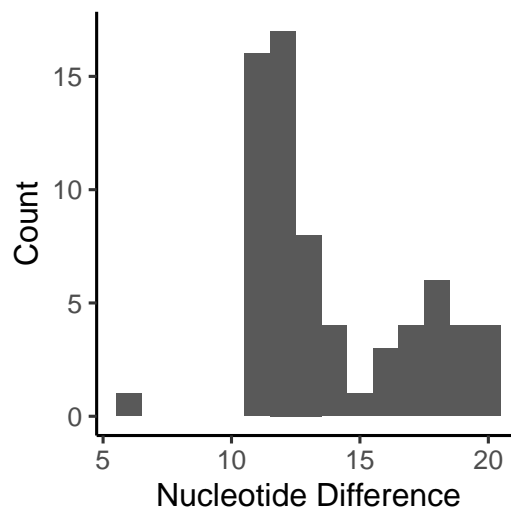
IGHV3–NL_18*01_S3867

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



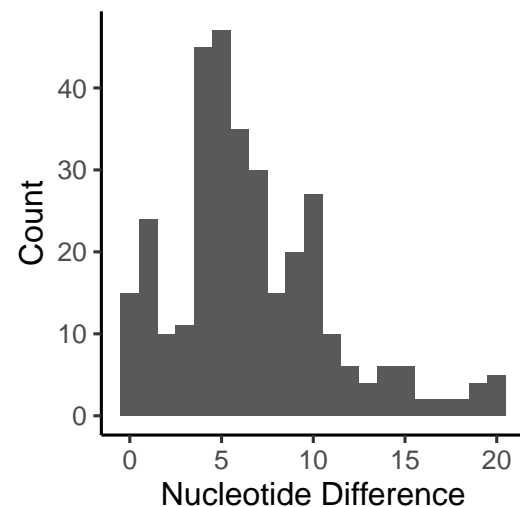
IGHV3–NL_9*01_S6098

75 sequences assigned
No exact matches.



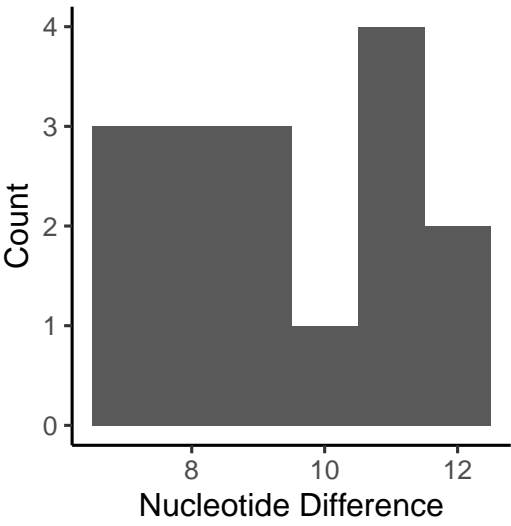
IGHV4–117*01_S4879

365 sequences assigned
15 (4.1%) exact matches, in which:
10 unique CDR3
1 unique J



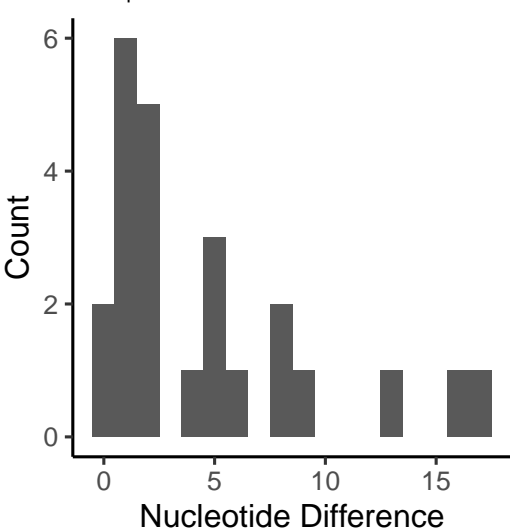
IGHV4-144*01_S3008

16 sequences assigned
No exact matches.



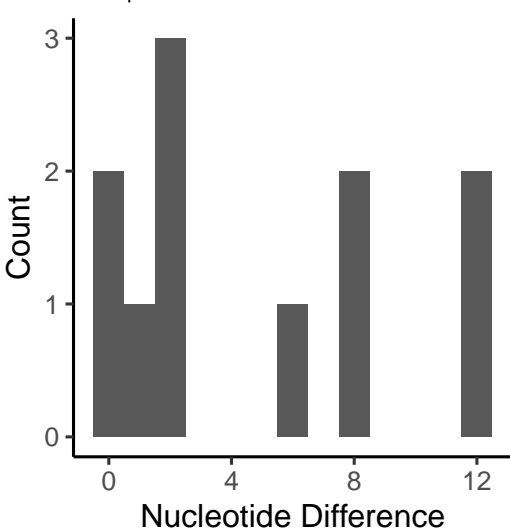
IGHV4-150*01_S1985

25 sequences assigned
2 (8%) exact matches, in which:
2 unique CDR3
1 unique J



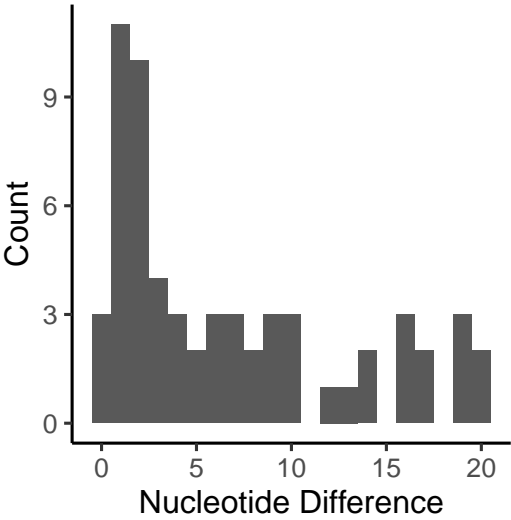
IGHV4-NL_1*02_S5113

12 sequences assigned
2 (16.7%) exact matches, in which:
2 unique CDR3
1 unique J



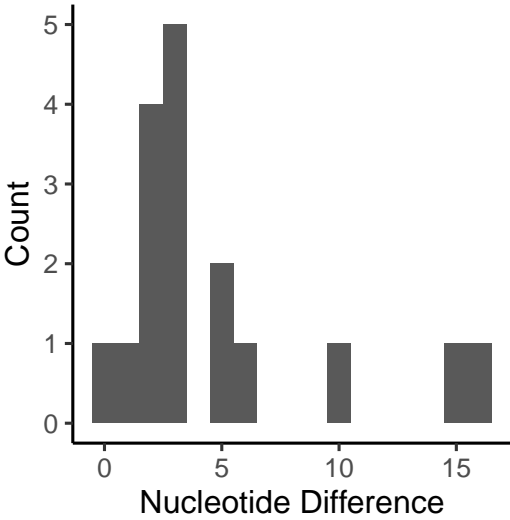
IGHV4-144*01_S4873

82 sequences assigned
3 (3.7%) exact matches, in which:
3 unique CDR3
1 unique J



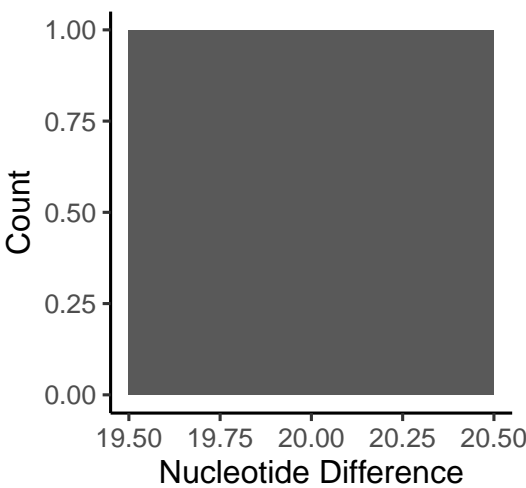
IGHV4-NL_1*01_S7297

17 sequences assigned
1 (5.9%) exact matches, in which:
1 unique CDR3
1 unique J



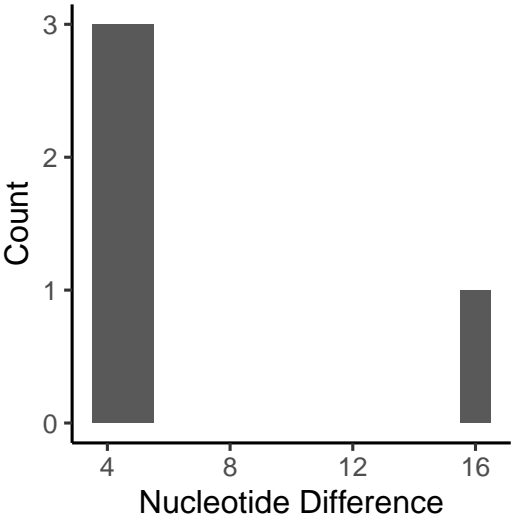
IGHV4-NL_11*01_S9942

1 sequences assigned
No exact matches.



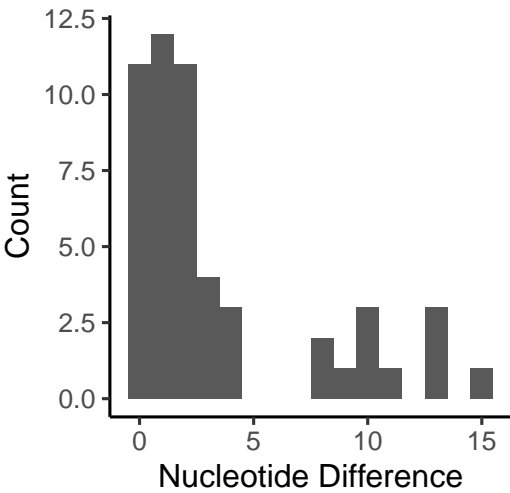
IGHV4-150*01_S0749

7 sequences assigned
No exact matches.



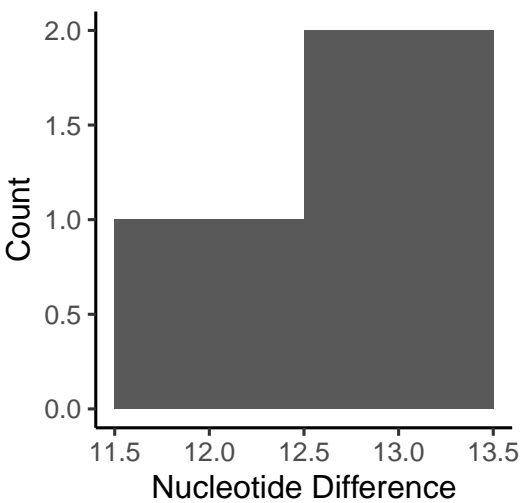
IGHV4-NL_1*01_S8720

54 sequences assigned
11 (20.4%) exact matches, in which:
8 unique CDR3
1 unique J



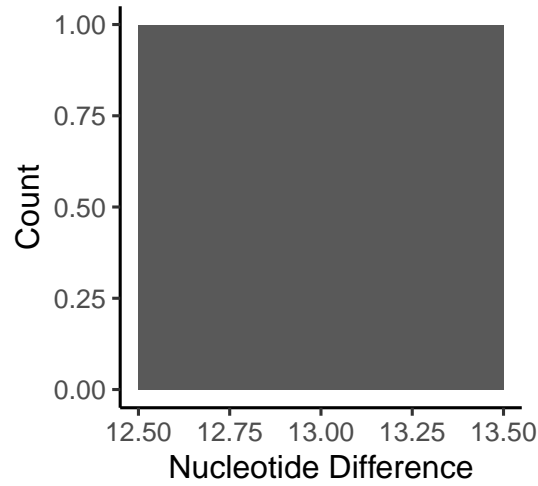
IGHV4-NL_12*01_S5174

5 sequences assigned
No exact matches.



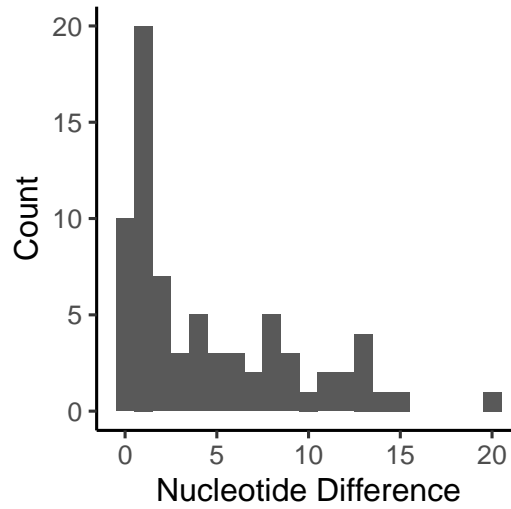
IGHV4-NL_12*01_S8068

1 sequences assigned
No exact matches.



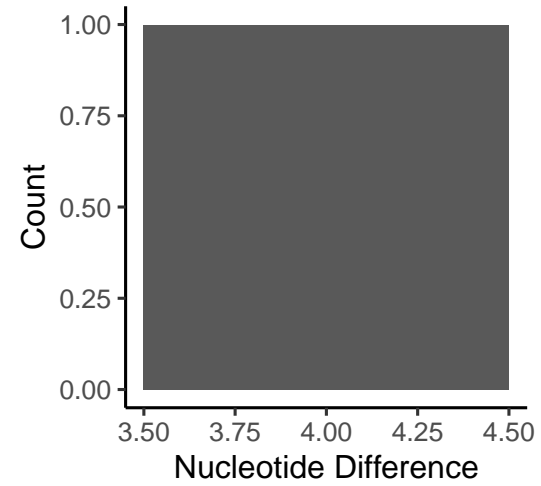
IGHV4-NL_17*01_S2333

75 sequences assigned
10 (13.3%) exact matches, in which:
9 unique CDR3
1 unique J



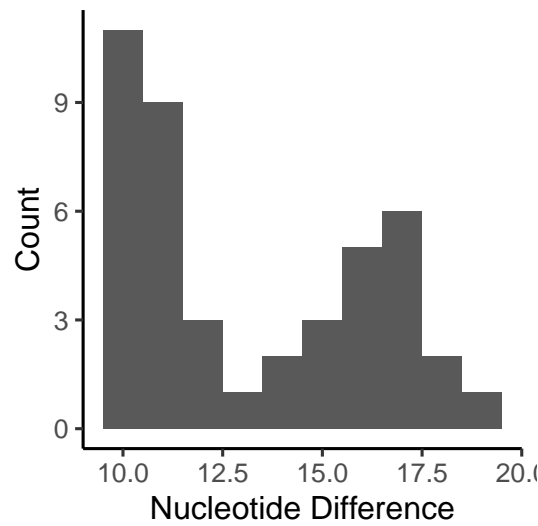
IGHV4-NL_20*01_S4754

1 sequences assigned
No exact matches.



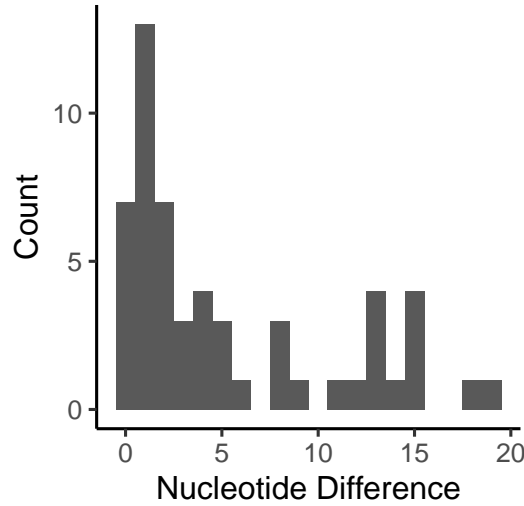
IGHV4-NL_13*01_S9744

57 sequences assigned
No exact matches.



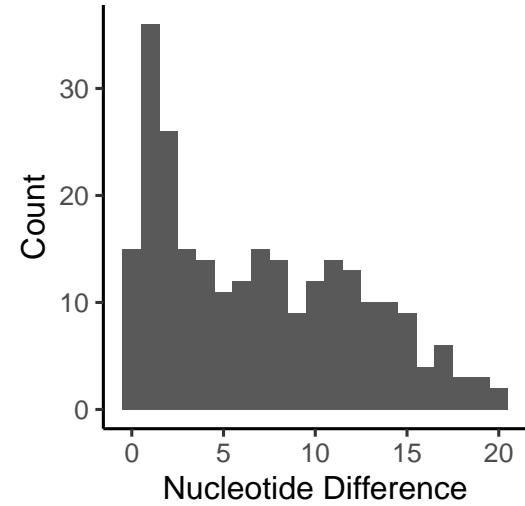
IGHV4-NL_17*01_S4099

57 sequences assigned
7 (12.3%) exact matches, in which:
6 unique CDR3
1 unique J



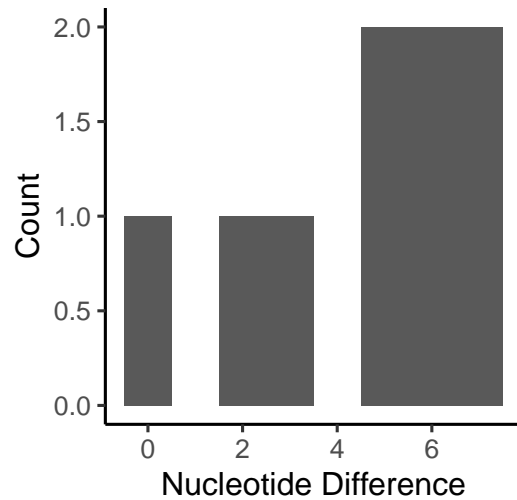
IGHV4-NL_21*01_S0138

273 sequences assigned
15 (5.5%) exact matches, in which:
13 unique CDR3
1 unique J



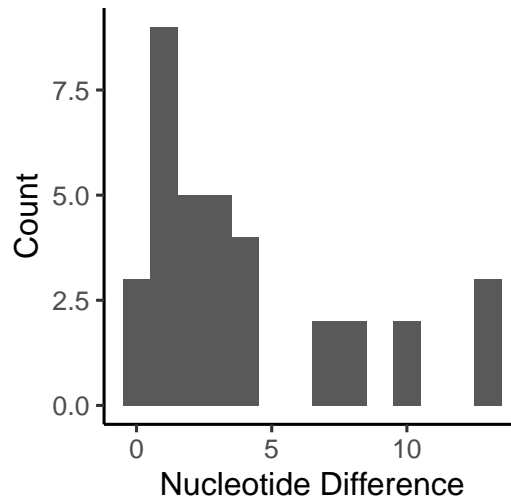
IGHV4-NL_16*01_S2324

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



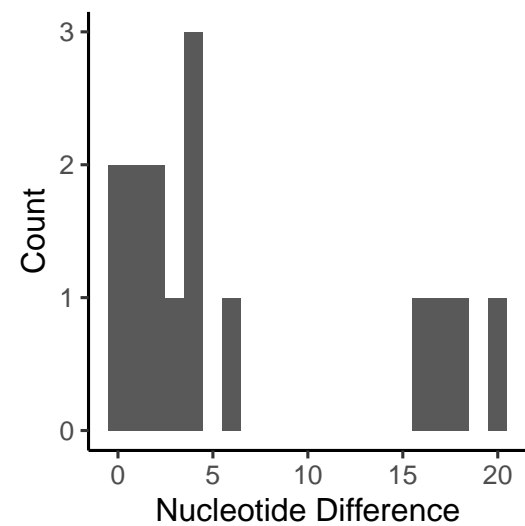
IGHV4-NL_17*01_S5431

36 sequences assigned
3 (8.3%) exact matches, in which:
2 unique CDR3
1 unique J



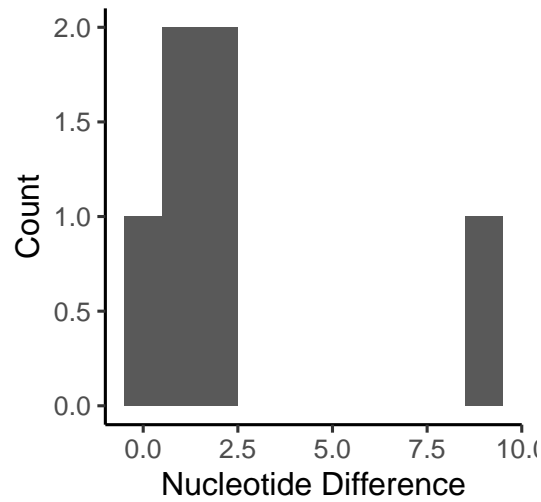
IGHV4-NL_22*01_S6977

24 sequences assigned
2 (8.3%) exact matches, in which:
2 unique CDR3
1 unique J



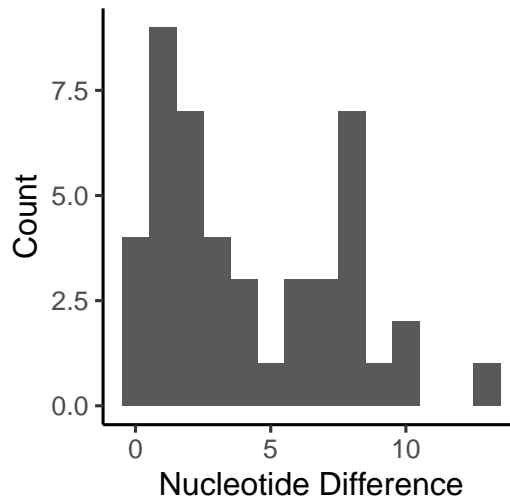
IGHV4-NL_23*01_S1296

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



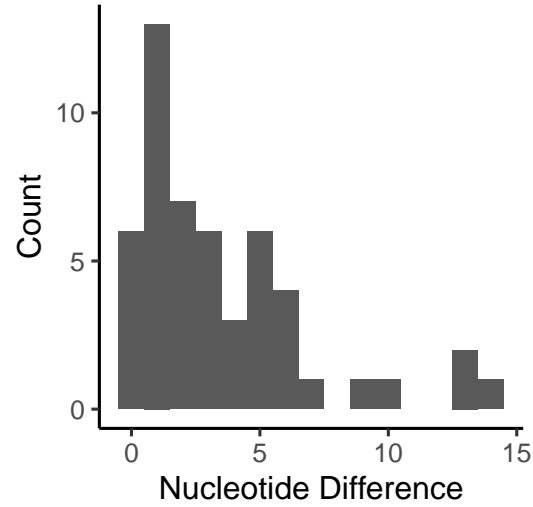
IGHV4-NL_27*01_S1458

46 sequences assigned
4 (8.7%) exact matches, in which:
3 unique CDR3
1 unique J



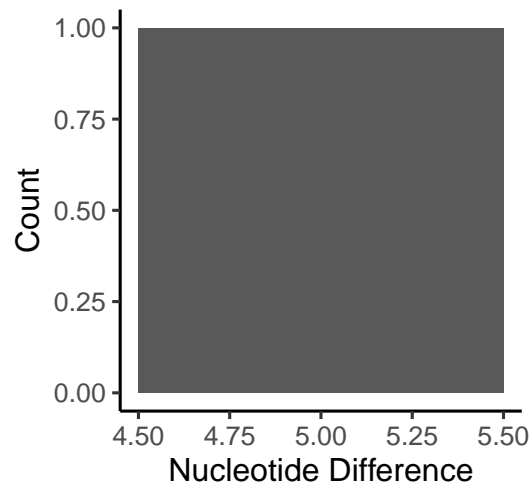
IGHV4-NL_33*01_S4143

51 sequences assigned
6 (11.8%) exact matches, in which:
6 unique CDR3
1 unique J



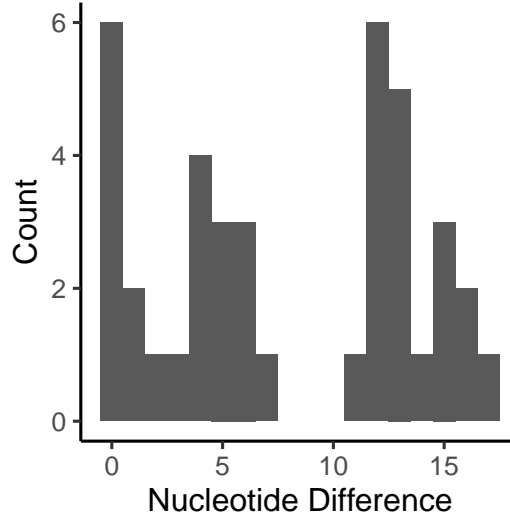
IGHV4-NL_23*01_S7000

1 sequences assigned
No exact matches.



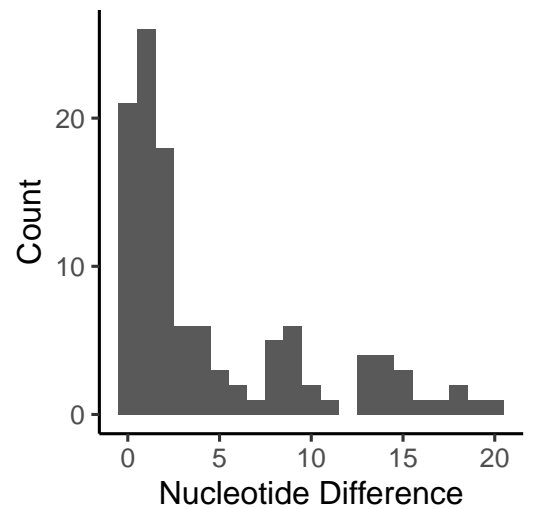
IGHV4-NL_29*01_S3761

46 sequences assigned
6 (13%) exact matches, in which:
6 unique CDR3
1 unique J



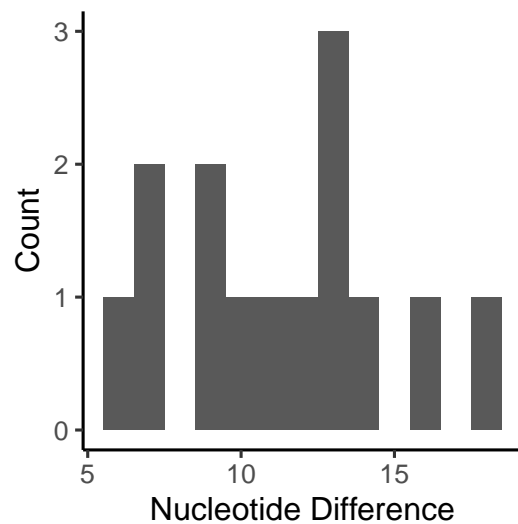
IGHV4-NL_33*01_S4377

136 sequences assigned
21 (15.4%) exact matches, in which:
12 unique CDR3
1 unique J



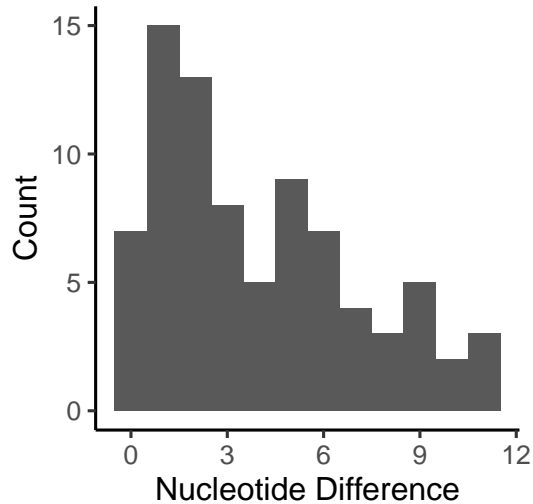
IGHV4-NL_24*01_S7595

15 sequences assigned
No exact matches.



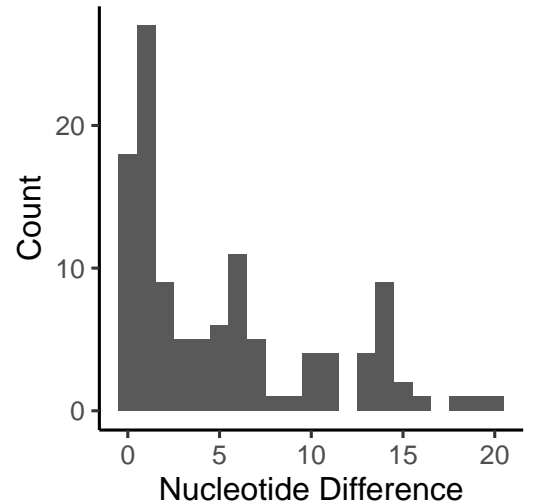
IGHV4-NL_3*01_S7864

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



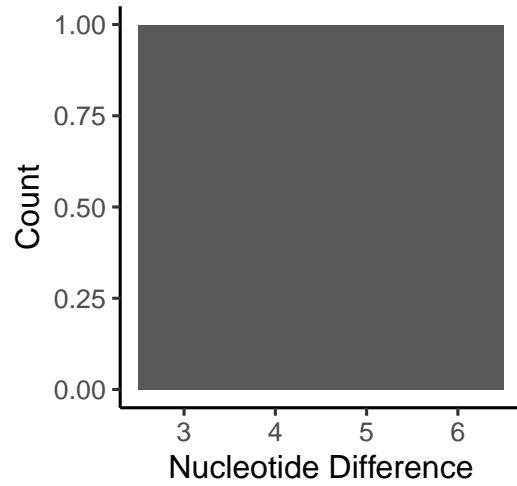
IGHV4-NL_36*01_S8200

116 sequences assigned
18 (15.5%) exact matches, in which:
14 unique CDR3
1 unique J



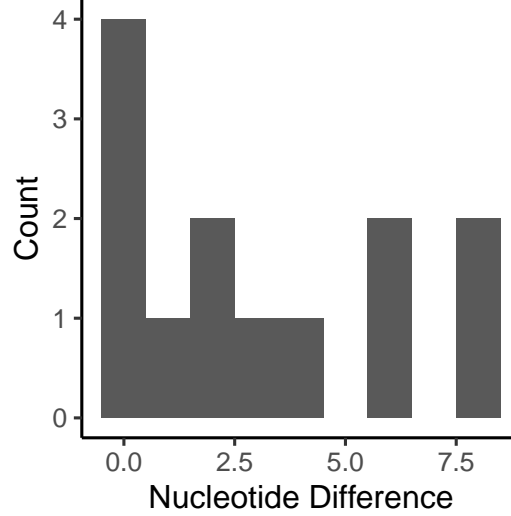
IGHV4–NL_38*01_S8437

4 sequences assigned
No exact matches.



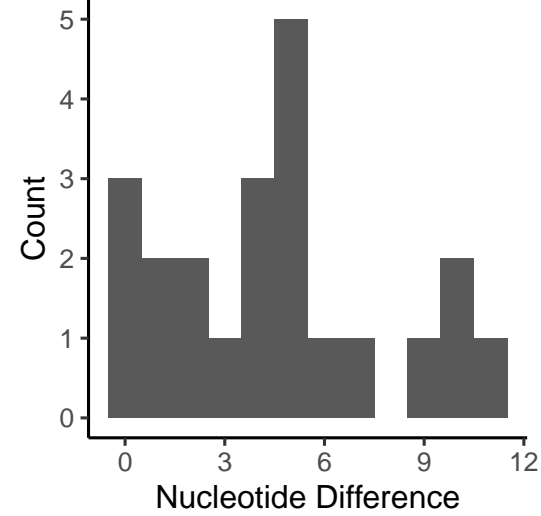
IGHV4–NL_5*01_S7147

13 sequences assigned
4 (30.8%) exact matches, in which:
4 unique CDR3
1 unique J



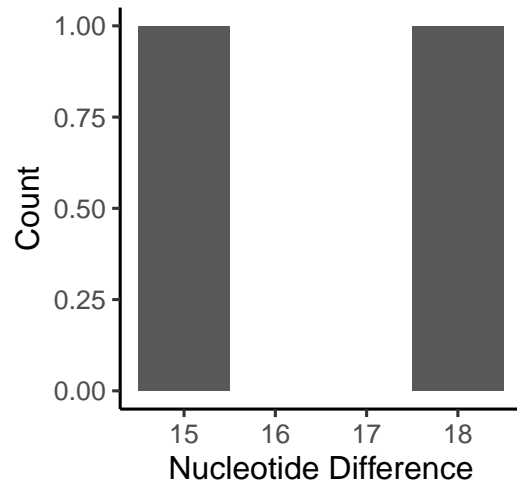
IGHV5–157*01_S6479

22 sequences assigned
3 (13.6%) exact matches, in which:
2 unique CDR3
1 unique J



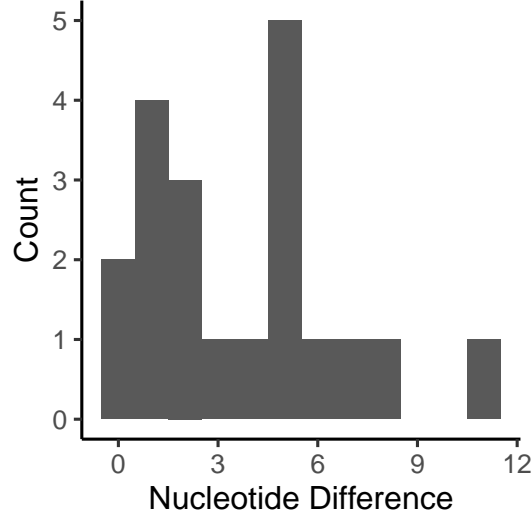
IGHV4–NL_38*01_S9472

2 sequences assigned
No exact matches.



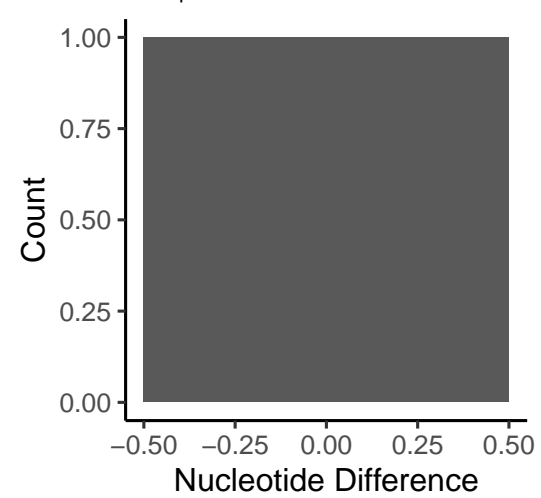
IGHV4–NL_9*01_S3502

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



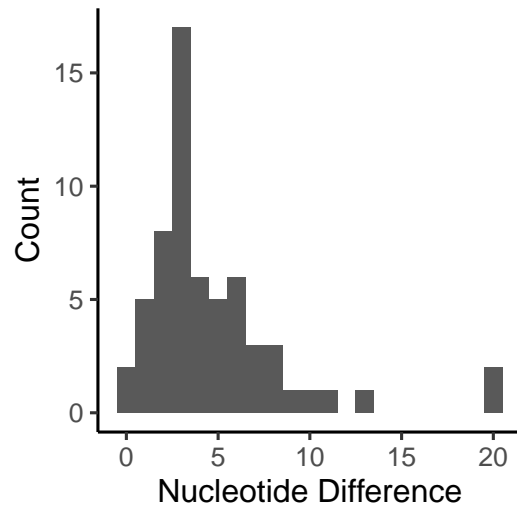
IGHV7–86*01_S6180

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



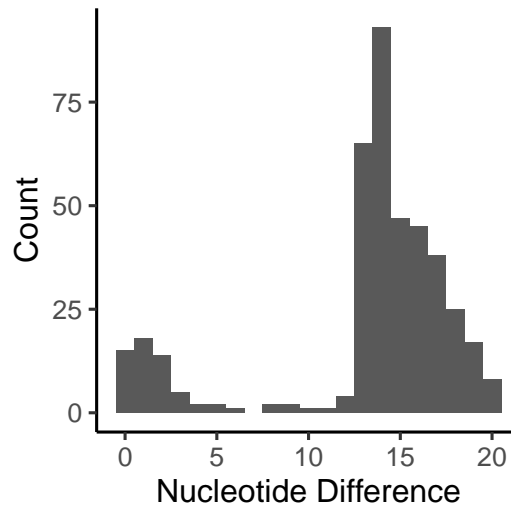
IGHV4–NL_42*01_S3572

63 sequences assigned
2 (3.2%) exact matches, in which:
2 unique CDR3
1 unique J

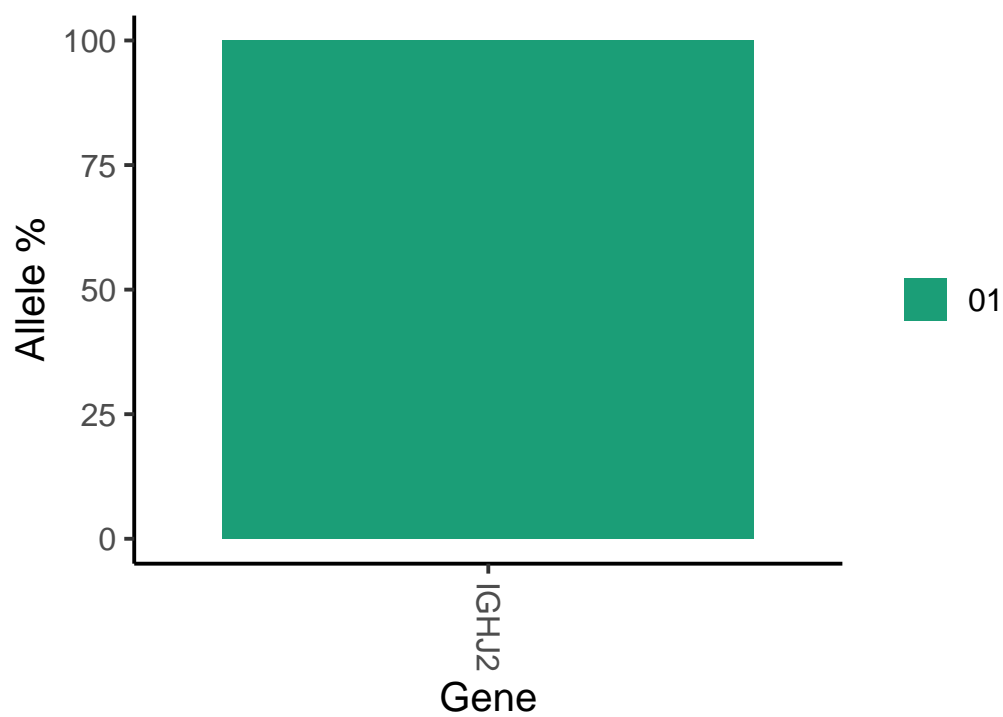


IGHV5–157*01_S3631

518 sequences assigned
15 (2.9%) exact matches, in which:
7 unique CDR3
1 unique J



Allele Usage



Warning – no inferred sequences found.