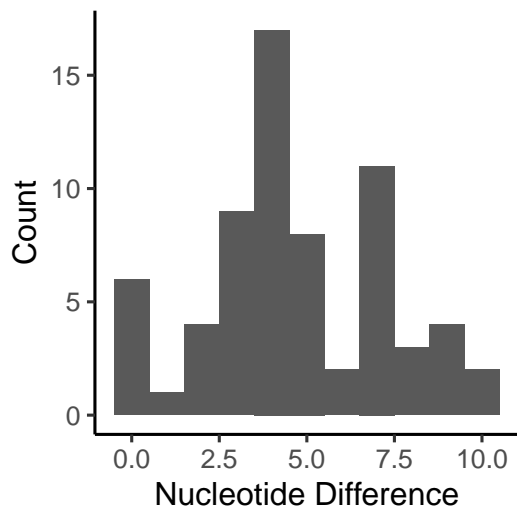


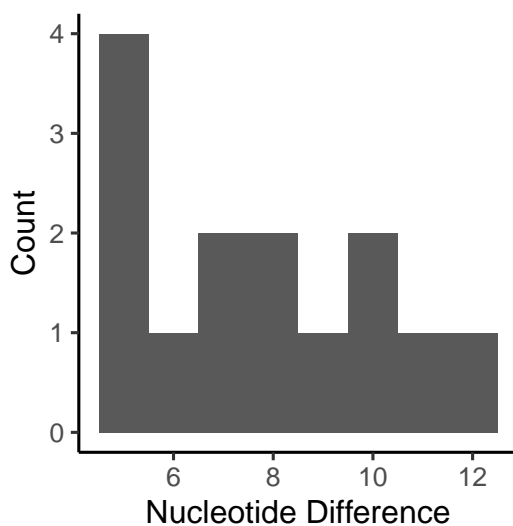
IGHV1-60*01_S7772

67 sequences assigned
6 (9%) exact matches, in which:
2 unique CDR3
1 unique J



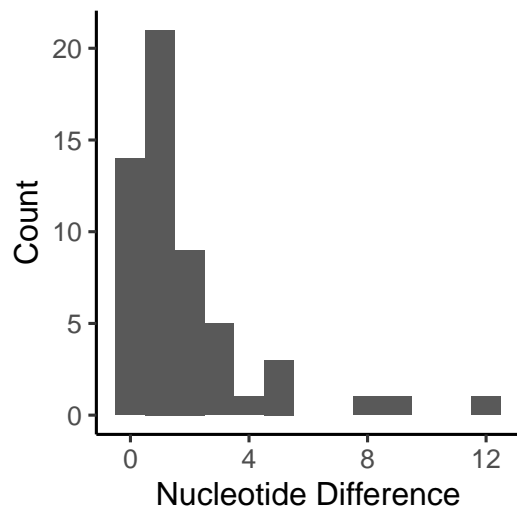
IGHV2-7*02_S1732

14 sequences assigned
No exact matches.



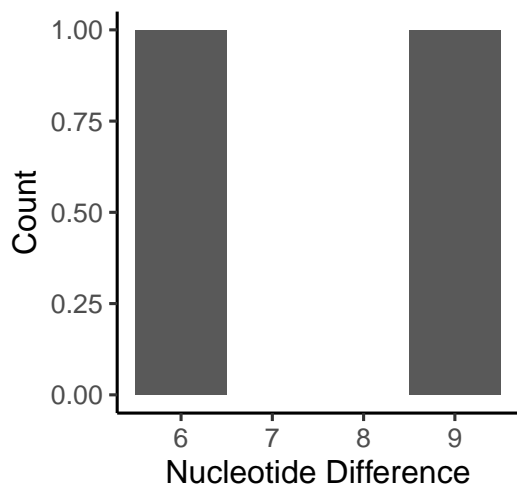
IGHV2-173*01_S2781

56 sequences assigned
14 (25%) exact matches, in which:
7 unique CDR3
1 unique J



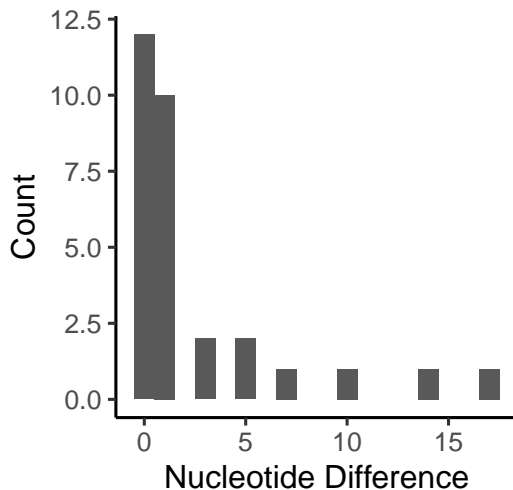
IGHV1-84*01_S4663

2 sequences assigned
No exact matches.



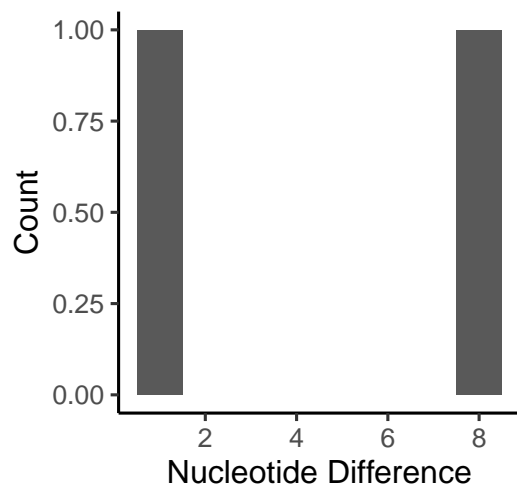
IGHV2-69*01_S2332

30 sequences assigned
12 (40%) exact matches, in which:
4 unique CDR3
1 unique J



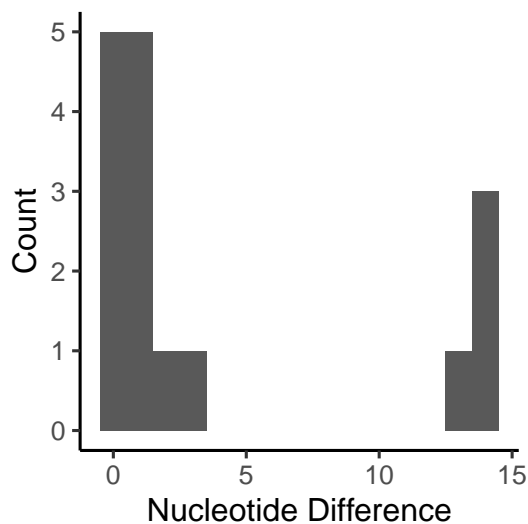
IGHV2-NL_1*01_S2133

2 sequences assigned
No exact matches.



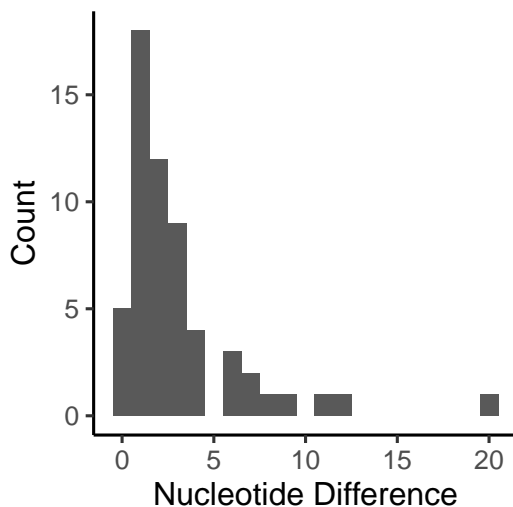
IGHV1-84*01_S9366

16 sequences assigned
5 (31.2%) exact matches, in which:
2 unique CDR3
1 unique J



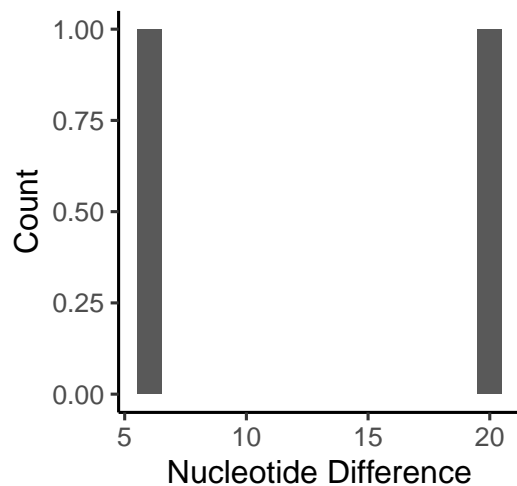
IGHV2-118*01_S4531

58 sequences assigned
5 (8.6%) exact matches, in which:
2 unique CDR3
1 unique J



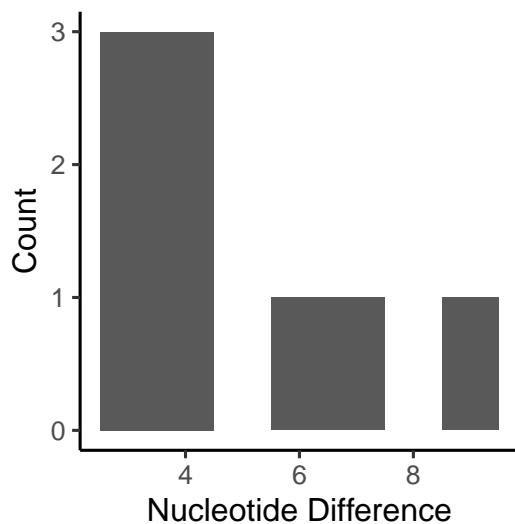
IGHV2-NL_2*01_S2193

2 sequences assigned
No exact matches.



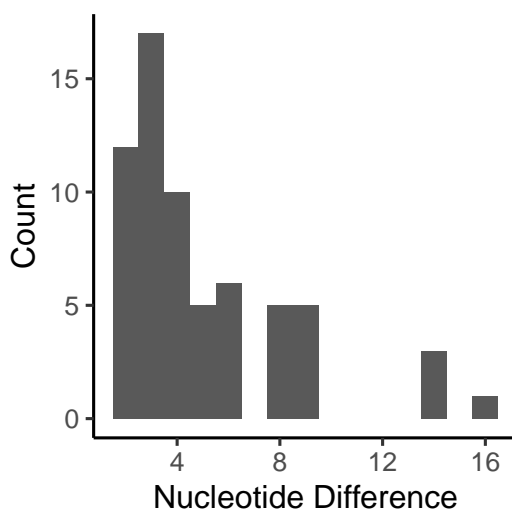
IGHV3-9*01_S0778

9 sequences assigned
No exact matches.



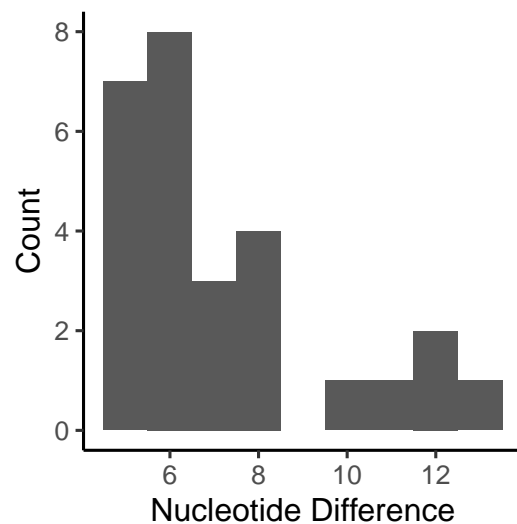
IGHV3-53*01_S4071

65 sequences assigned
No exact matches.



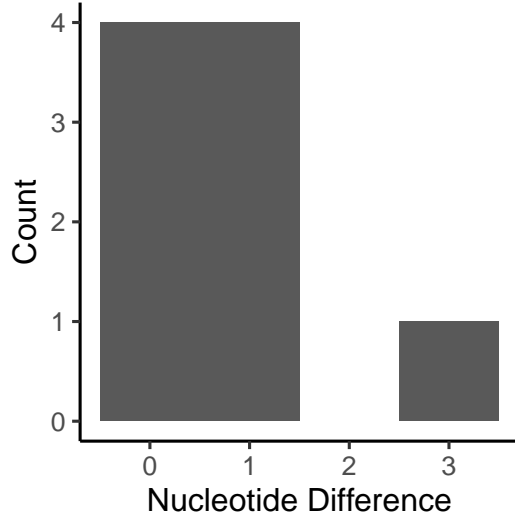
IGHV3-76*01_S5420

28 sequences assigned
No exact matches.



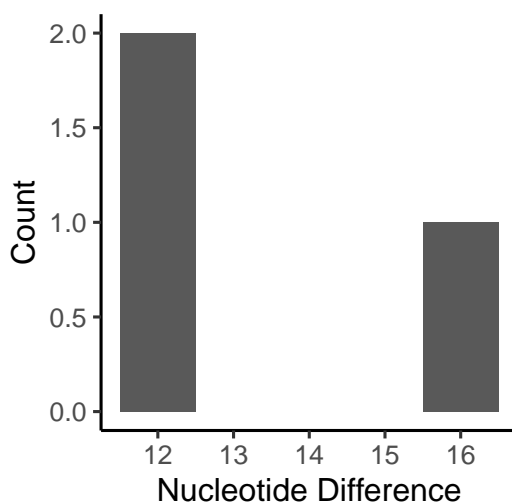
IGHV3-36*01_S5206

9 sequences assigned
4 (44.4%) exact matches, in which:
2 unique CDR3
1 unique J



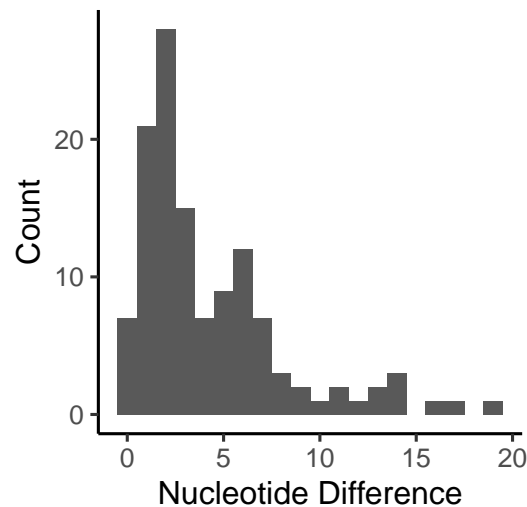
IGHV3-73*02_S0085

3 sequences assigned
No exact matches.



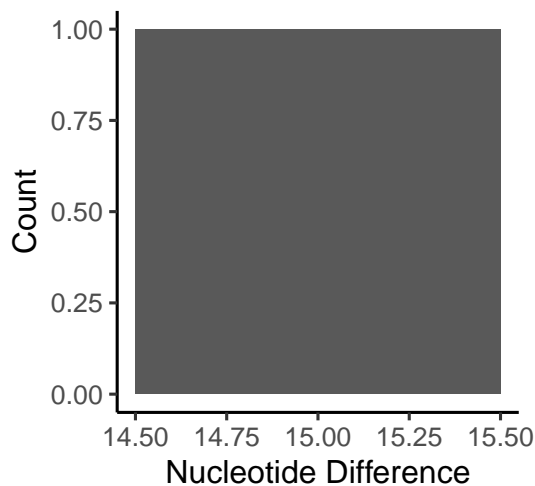
IGHV3-88*02_S7590

129 sequences assigned
7 (5.4%) exact matches, in which:
2 unique CDR3
1 unique J



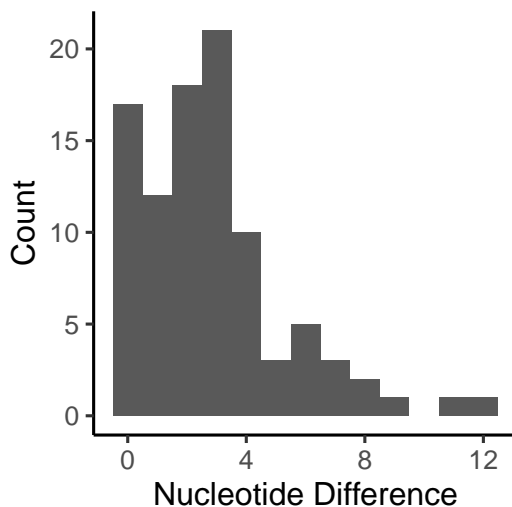
IGHV3-37*01_S6630

1 sequences assigned
No exact matches.



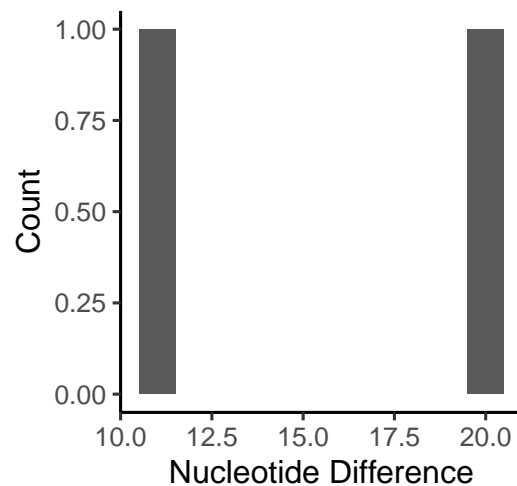
IGHV3-76*01_S0794

94 sequences assigned
17 (18.1%) exact matches, in which:
9 unique CDR3
1 unique J



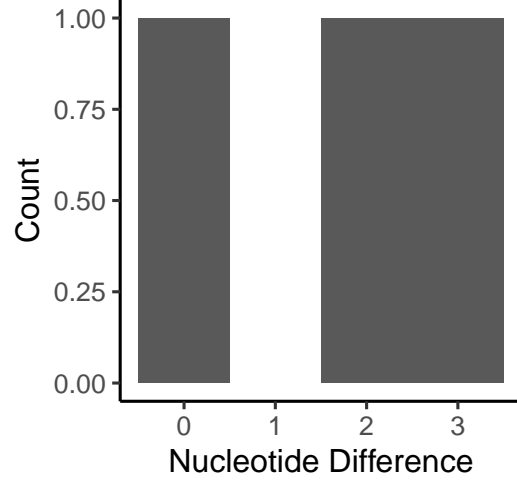
IGHV3-122*01_S8125

2 sequences assigned
No exact matches.



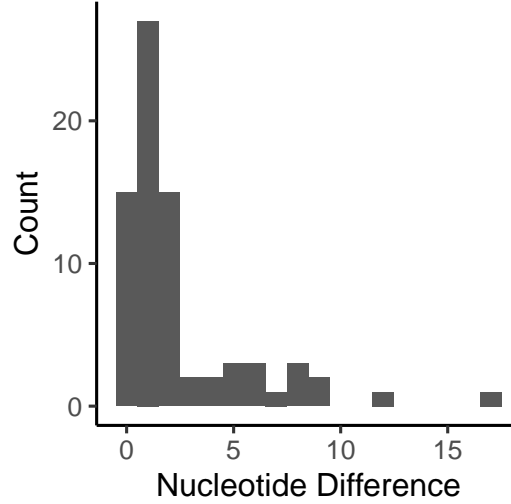
IGHV3-127*01_S7059

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



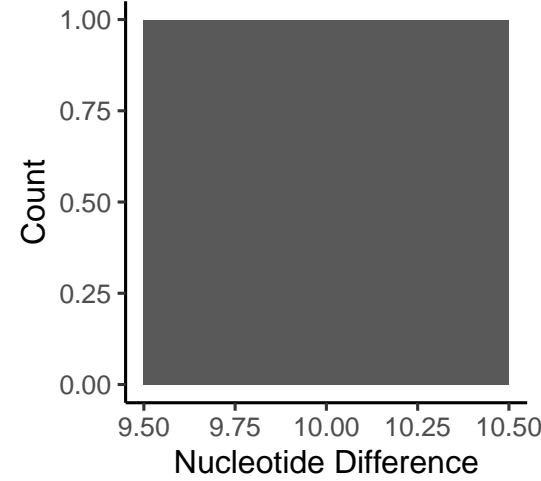
IGHV3-NL_1*01_S9854

75 sequences assigned
15 (20%) exact matches, in which:
4 unique CDR3
1 unique J



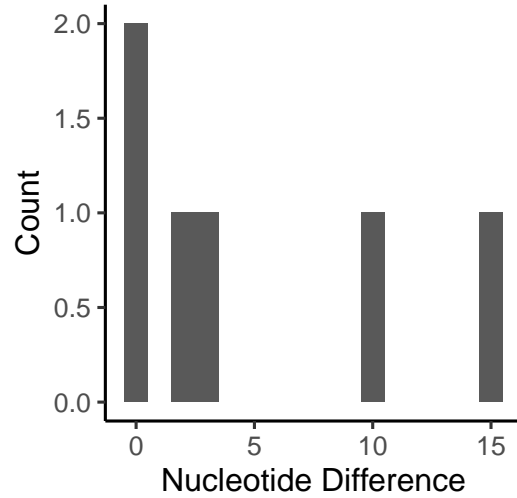
IGHV3-NL_17*01_S4250

1 sequences assigned
No exact matches.



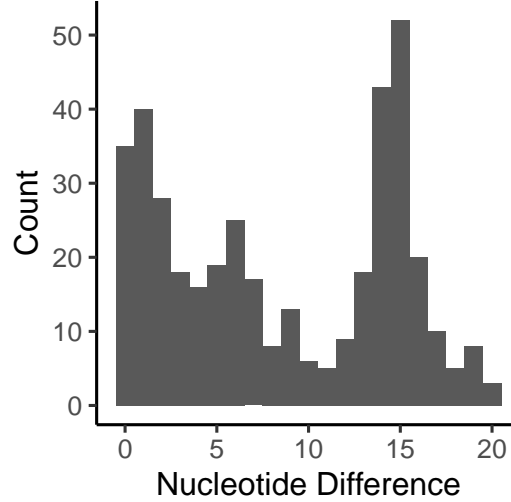
IGHV3-187*01_S1387

6 sequences assigned
2 (33.3%) exact matches, in which:
2 unique CDR3
1 unique J



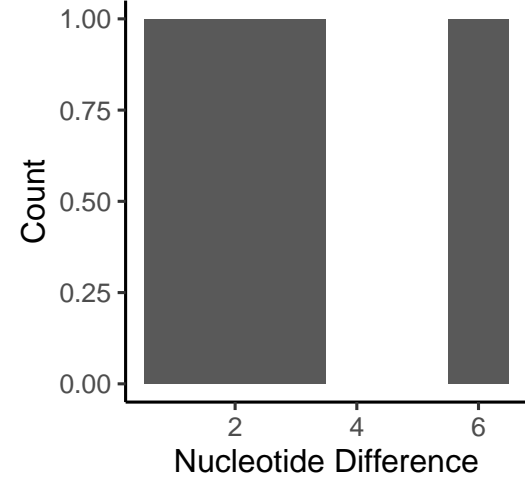
IGHV3-NL_11*01_S8390

409 sequences assigned
35 (8.6%) exact matches, in which:
19 unique CDR3
1 unique J



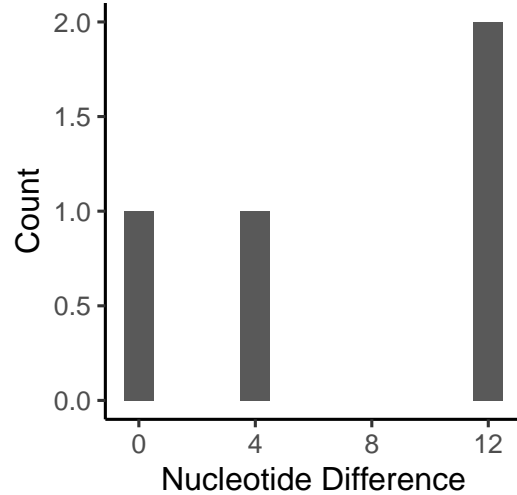
IGHV3-NL_17*01_S9589

4 sequences assigned
No exact matches.



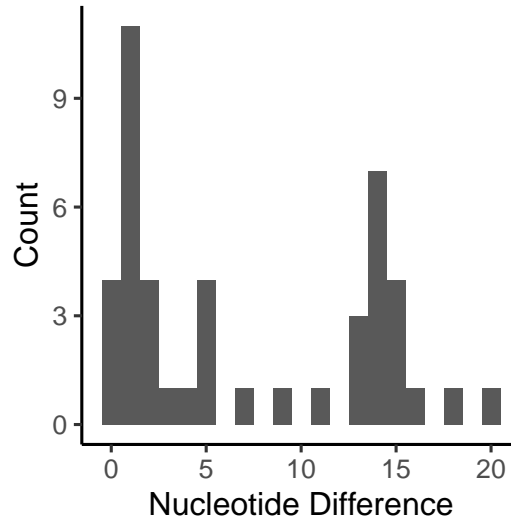
IGHV3-187*01_S2144

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



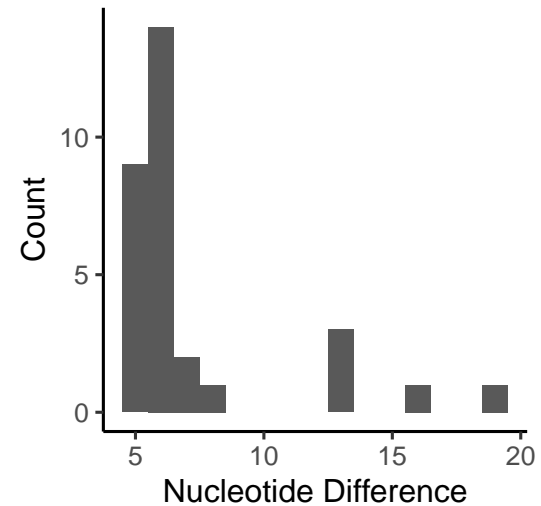
IGHV3-NL_14*01_S4949

53 sequences assigned
4 (7.5%) exact matches, in which:
3 unique CDR3
1 unique J



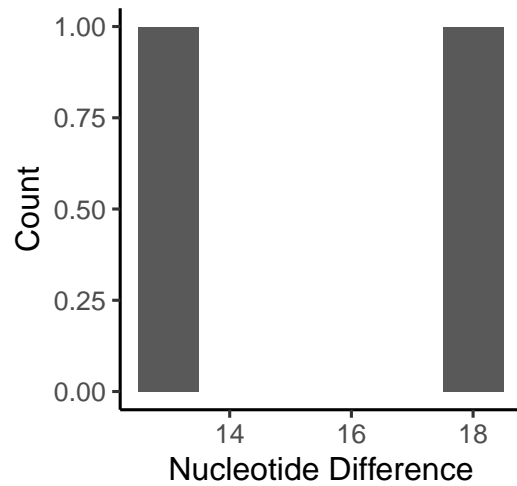
IGHV3-NL_19*01_S7515

31 sequences assigned
No exact matches.



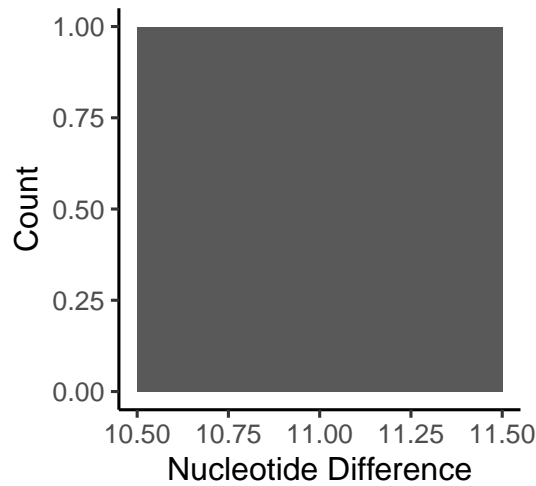
IGHV3-NL_4*01_S2727

2 sequences assigned
No exact matches.



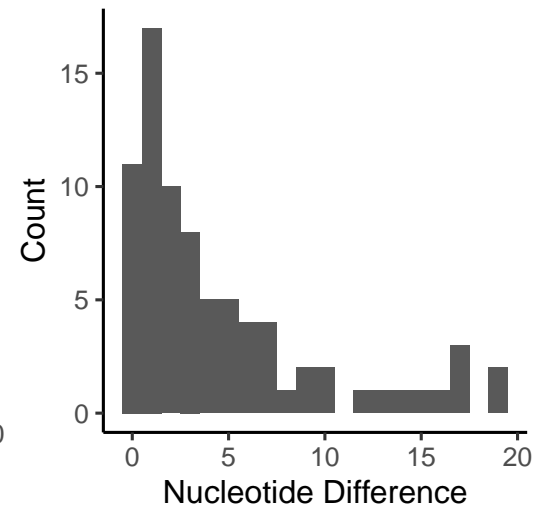
IGHV3-NL_9*01_S6098

1 sequences assigned
No exact matches.



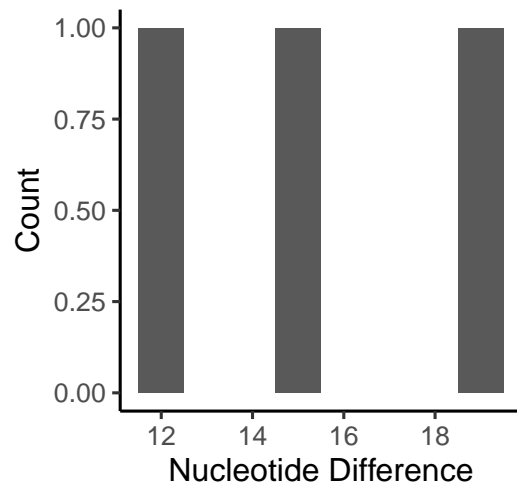
IGHV4-144*01_S8596

85 sequences assigned
11 (12.9%) exact matches, in which:
9 unique CDR3
1 unique J



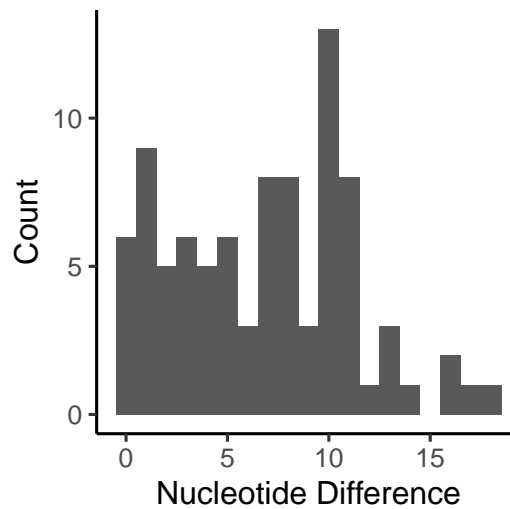
IGHV3-NL_4*01_S9635

3 sequences assigned
No exact matches.



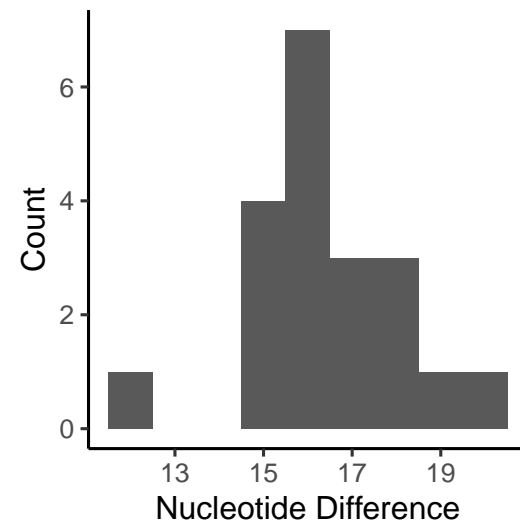
IGHV4-93*01_S0054

93 sequences assigned
6 (6.5%) exact matches, in which:
5 unique CDR3
1 unique J



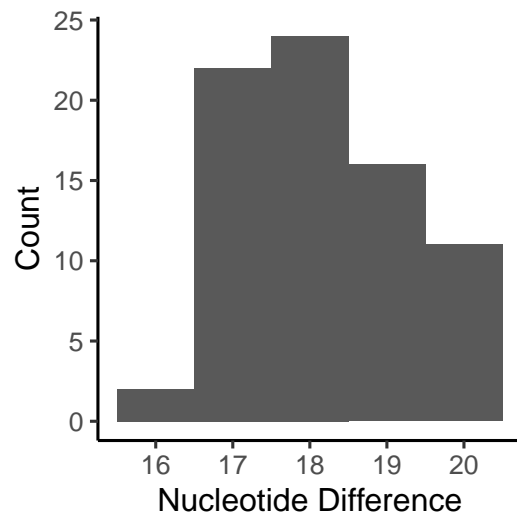
IGHV4-149*01_S1430

23 sequences assigned
No exact matches.



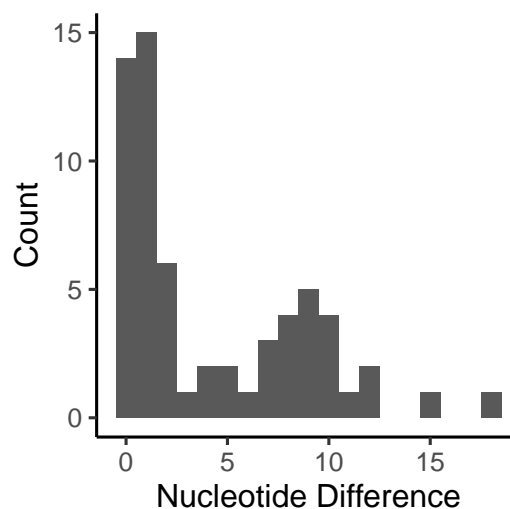
IGHV3-NL_7*01_S0199

150 sequences assigned
No exact matches.



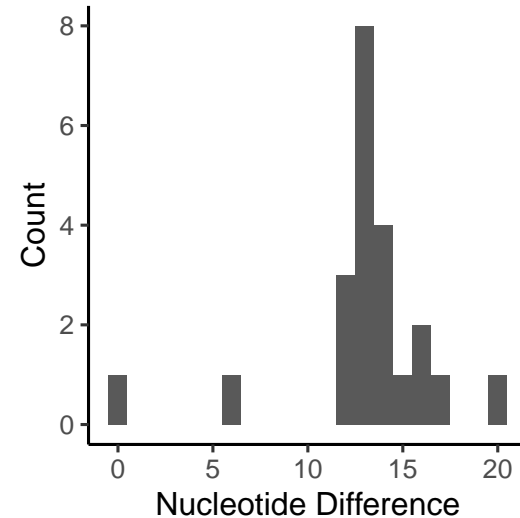
IGHV4-117*01_S0312

62 sequences assigned
14 (22.6%) exact matches, in which:
12 unique CDR3
1 unique J



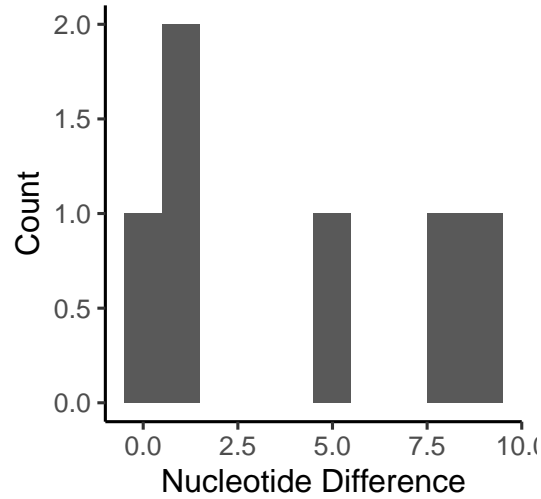
IGHV4-149*01_S5300

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



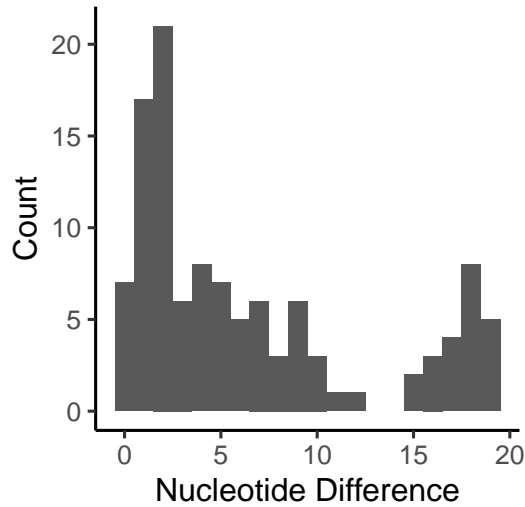
IGHV4-150*01_S6885

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



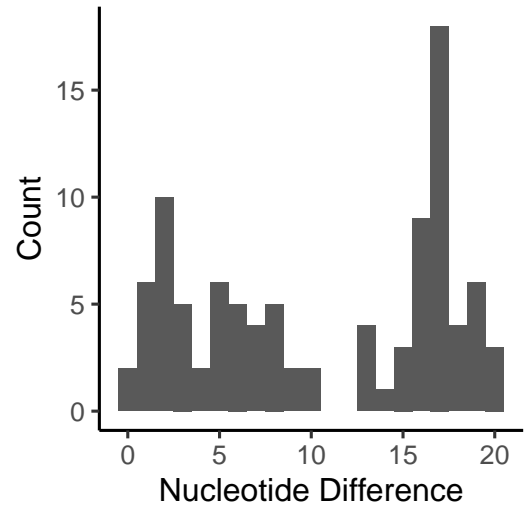
IGHV4-NL_16*01_S2138

121 sequences assigned
7 (5.8%) exact matches, in which:
6 unique CDR3
1 unique J



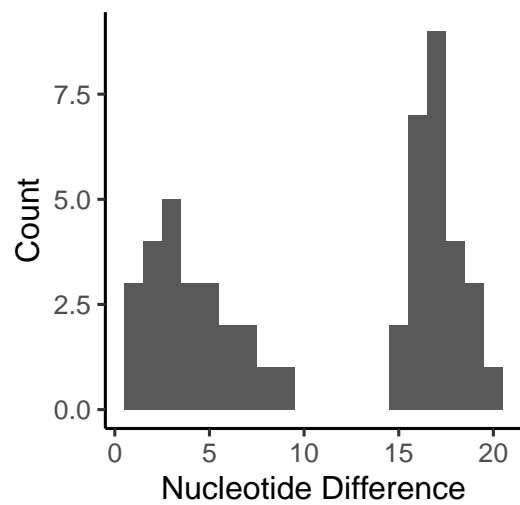
IGHV4-NL_25*01_S6960

116 sequences assigned
2 (1.7%) exact matches, in which:
2 unique CDR3
1 unique J



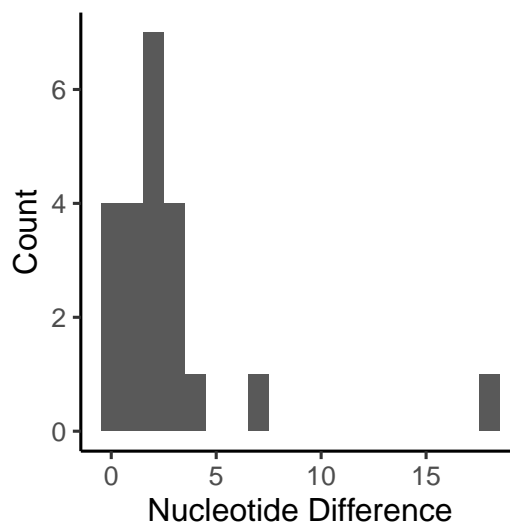
IGHV4-NL_1*02_S4188

55 sequences assigned
No exact matches.



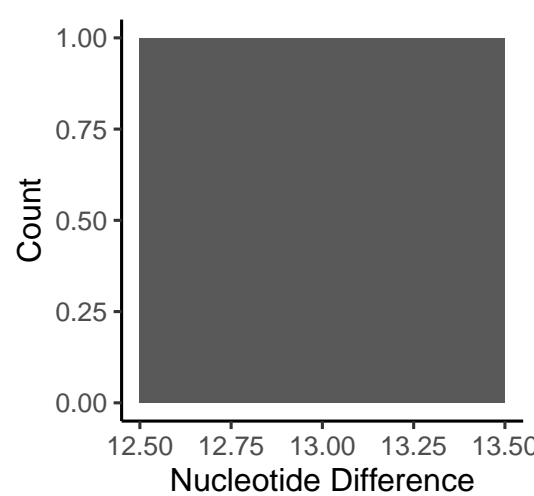
IGHV4-NL_20*01_S6889

22 sequences assigned
4 (18.2%) exact matches, in which:
3 unique CDR3
1 unique J



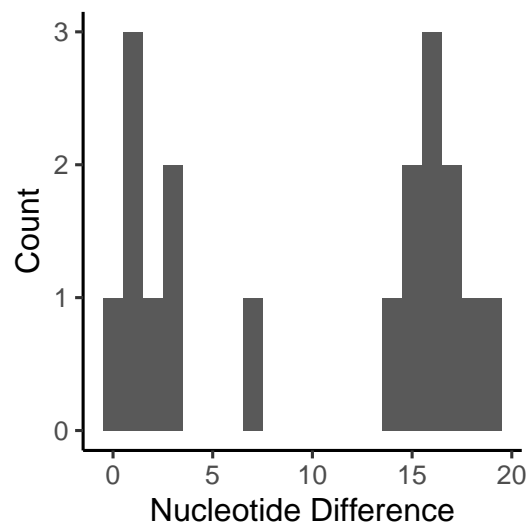
IGHV4-NL_27*01_S3510

1 sequences assigned
No exact matches.



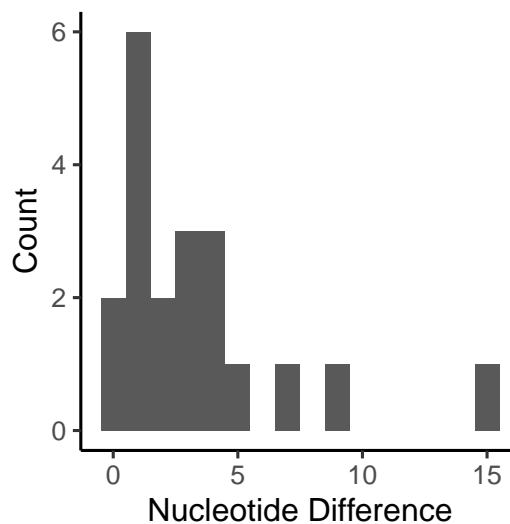
IGHV4-NL_13*01_S9744

21 sequences assigned
1 (4.8%) exact matches, in which:
1 unique CDR3
1 unique J



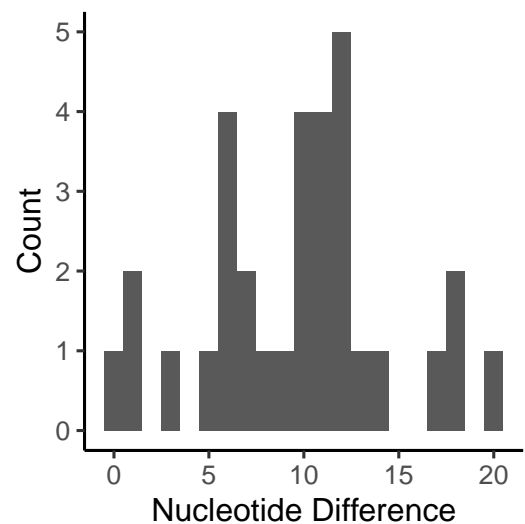
IGHV4-NL_22*01_S9255

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



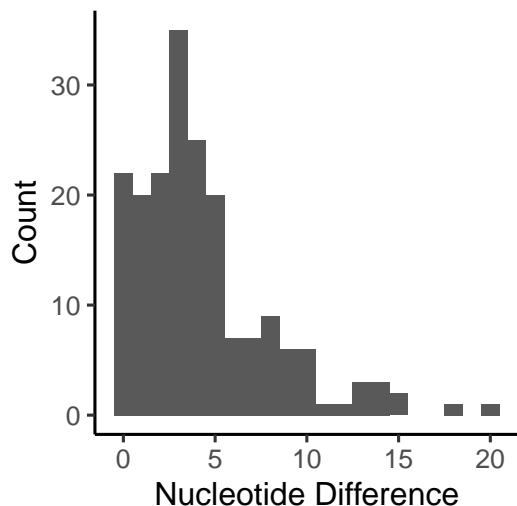
IGHV4-NL_28*01_S1050

32 sequences assigned
1 (3.1%) exact matches, in which:
1 unique CDR3
1 unique J



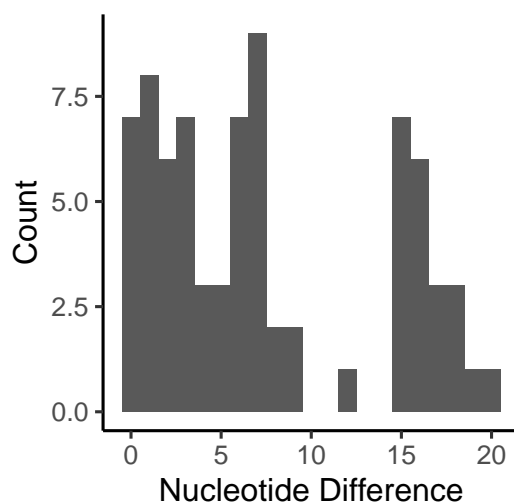
IGHV4–NL_29*01_S1425

193 sequences assigned
22 (11.4%) exact matches, in which:
10 unique CDR3
1 unique J



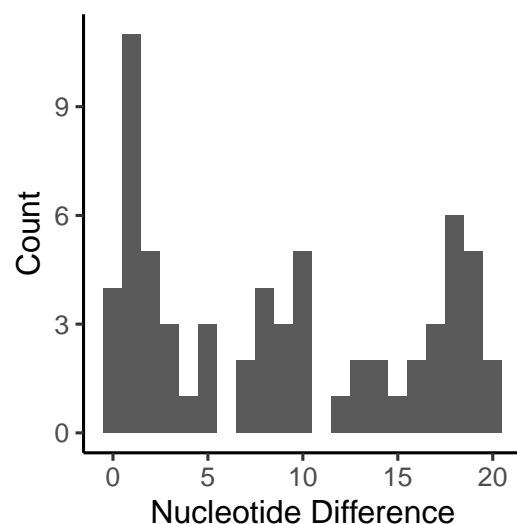
IGHV4–NL_36*01_S7873

81 sequences assigned
7 (8.6%) exact matches, in which:
5 unique CDR3
1 unique J



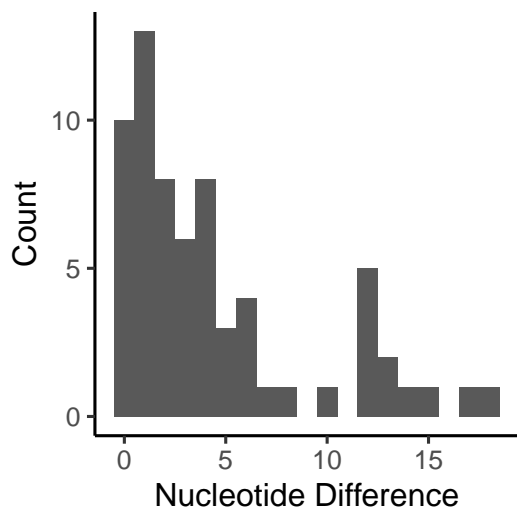
IGHV4–NL_6*01_S5805

73 sequences assigned
4 (5.5%) exact matches, in which:
3 unique CDR3
1 unique J



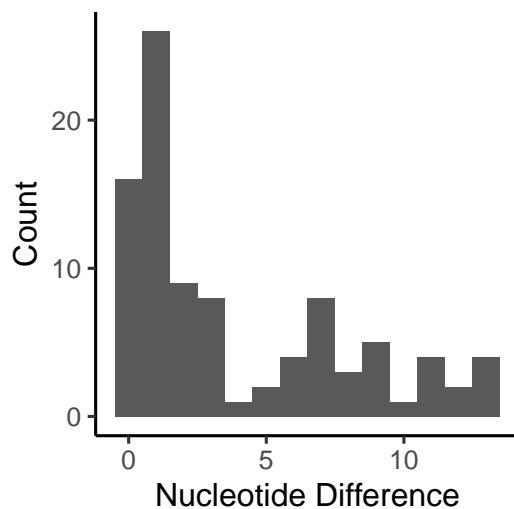
IGHV4–NL_31*01_S7693

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



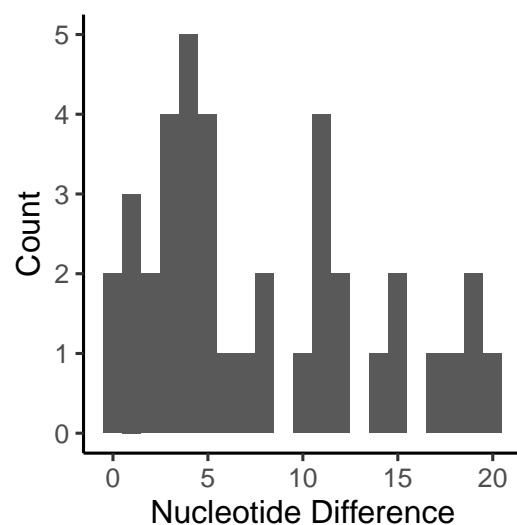
IGHV4–NL_5*01_S6281

96 sequences assigned
16 (16.7%) exact matches, in which:
12 unique CDR3
1 unique J



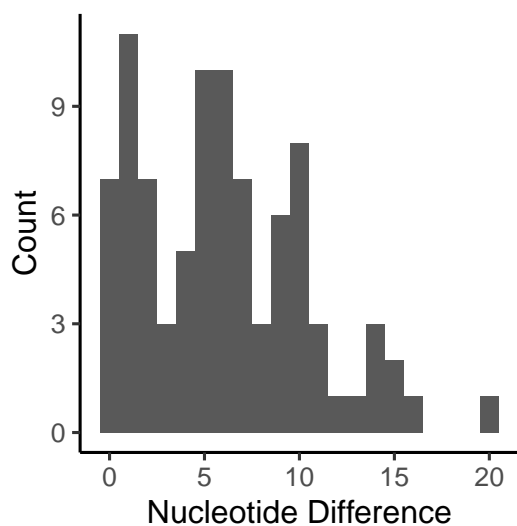
IGHV4–NL_9*01_S4804

39 sequences assigned
2 (5.1%) exact matches, in which:
1 unique CDR3
1 unique J



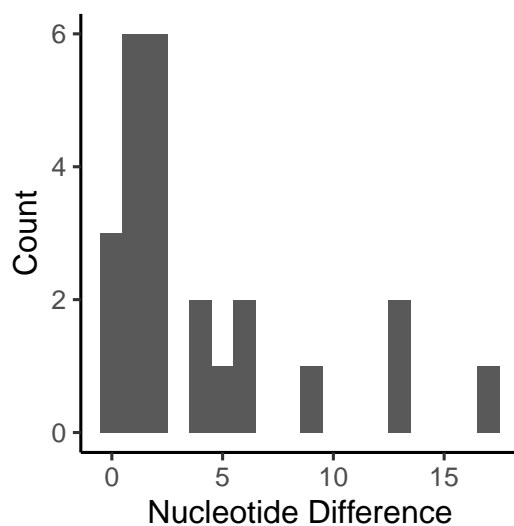
IGHV4–NL_33*01_S2532

91 sequences assigned
7 (7.7%) exact matches, in which:
5 unique CDR3
1 unique J



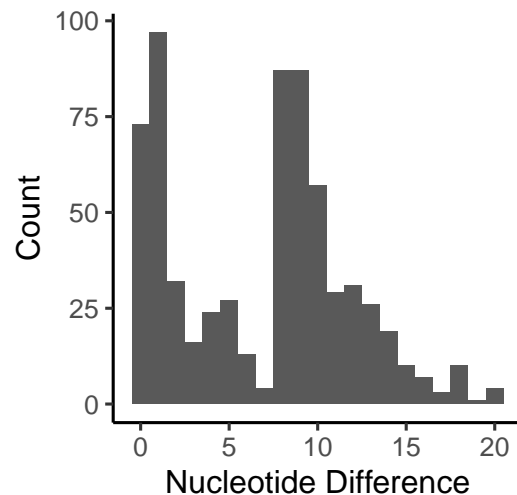
IGHV4–NL_6*01_S1133

24 sequences assigned
3 (12.5%) exact matches, in which:
2 unique CDR3
1 unique J

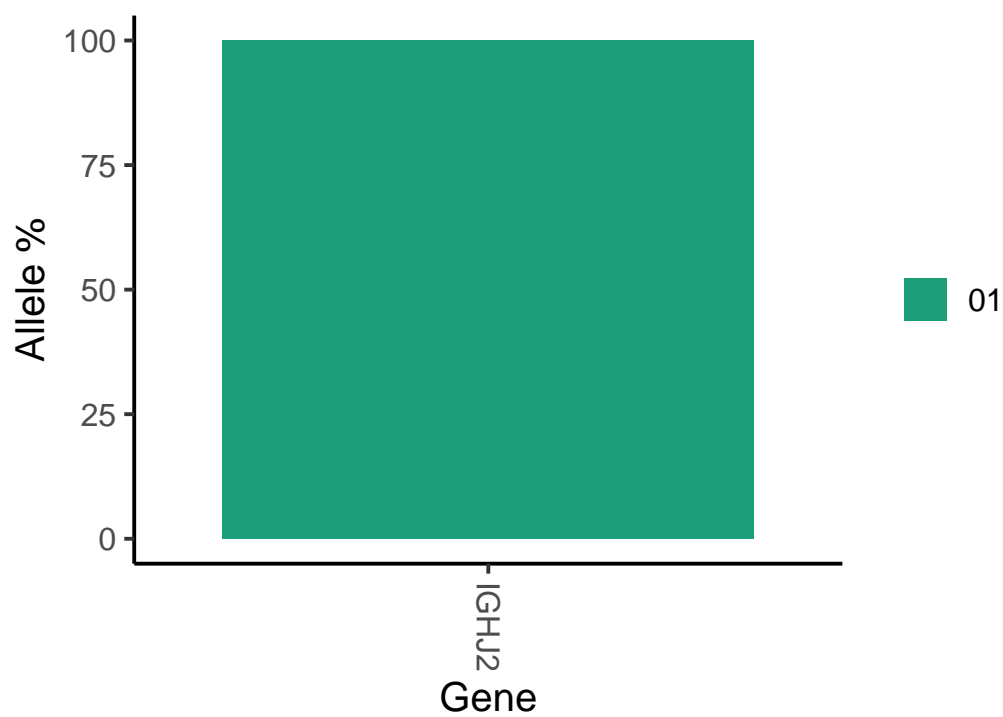


IGHV5–157*02_S7648

668 sequences assigned
73 (10.9%) exact matches, in which:
28 unique CDR3
1 unique J



Allele Usage



Warning – no inferred sequences found.