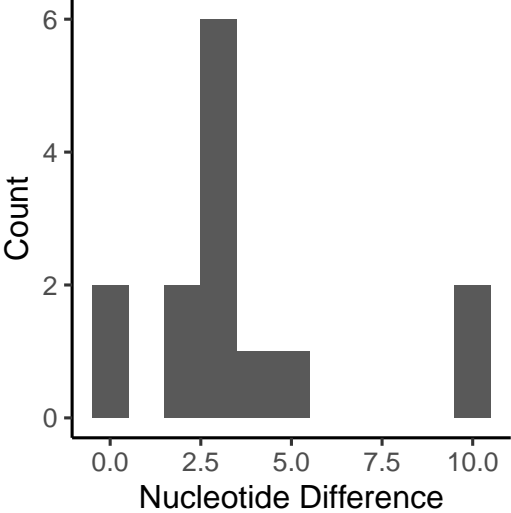


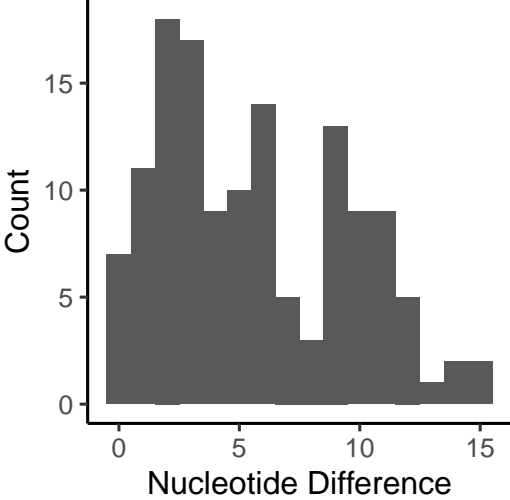
IGHV1-138*01_S2054

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



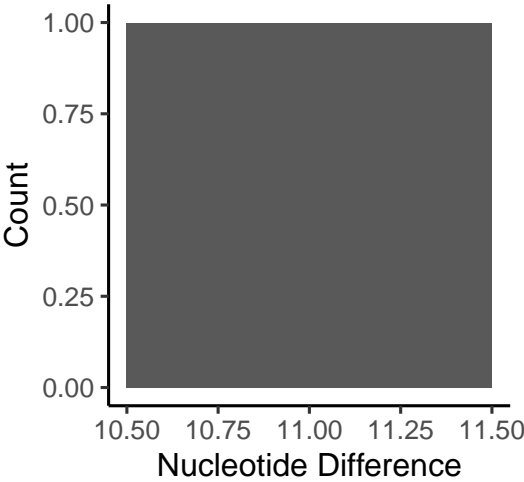
IGHV2-69*02_S0779

136 sequences assigned
7 (5.1%) exact matches, in which:
5 unique CDR3
1 unique J



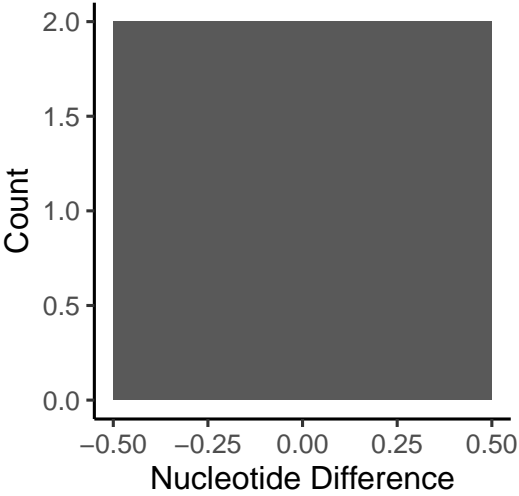
IGHV2-118*01_S8501

1 sequences assigned
No exact matches.



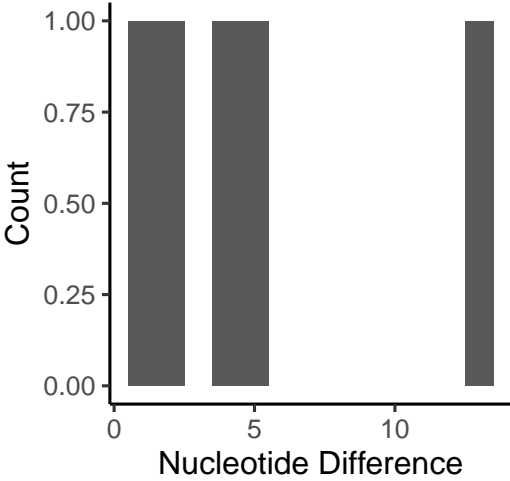
IGHV1-138*01_S6073

9 sequences assigned
2 (22.2%) exact matches, in which:
2 unique CDR3
1 unique J



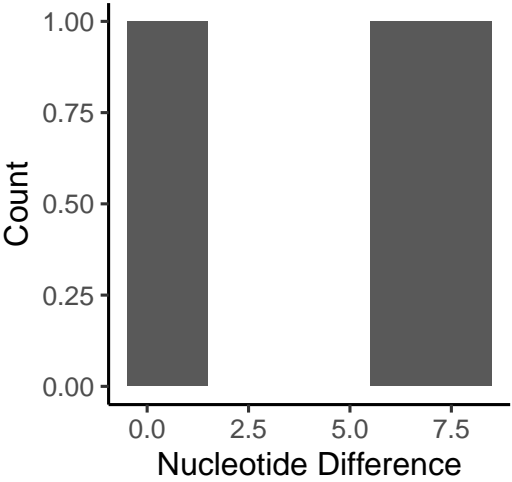
IGHV2-118*01_S4531

5 sequences assigned
No exact matches.



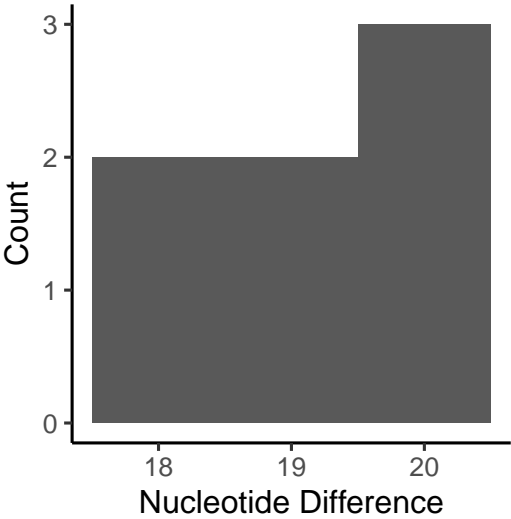
IGHV3-36*01_S7141

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



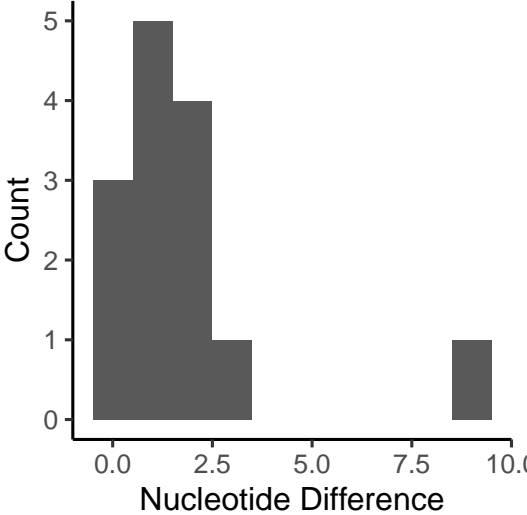
IGHV1-170*01_S3055

27 sequences assigned
No exact matches.



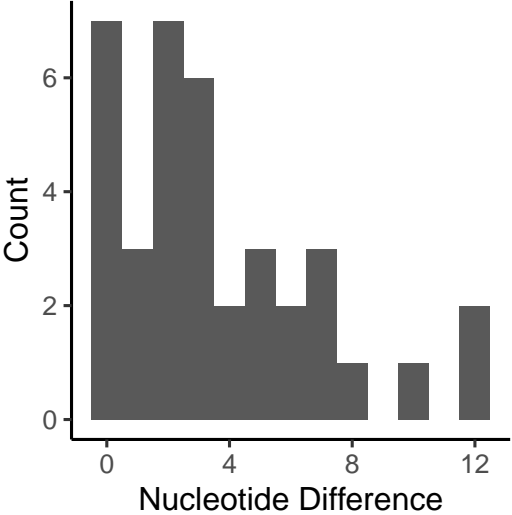
IGHV2-118*01_S4632

14 sequences assigned
3 (21.4%) exact matches, in which:
1 unique CDR3
1 unique J



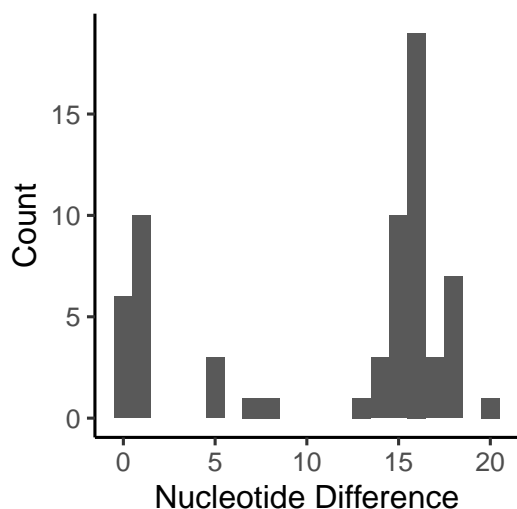
IGHV3-50*01_S1879

37 sequences assigned
7 (18.9%) exact matches, in which:
4 unique CDR3
1 unique J



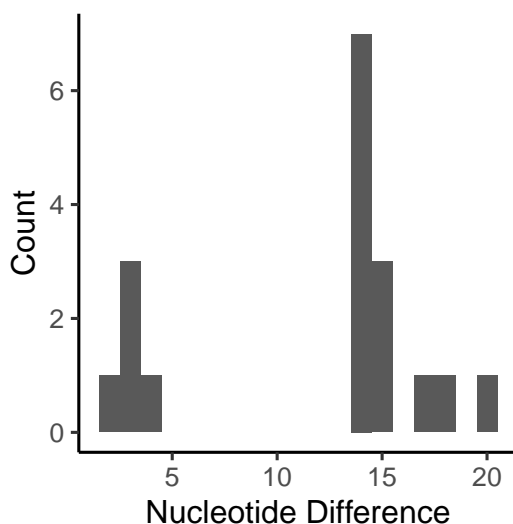
IGHV3-53*01_S2000

71 sequences assigned
6 (8.5%) exact matches, in which:
5 unique CDR3
1 unique J



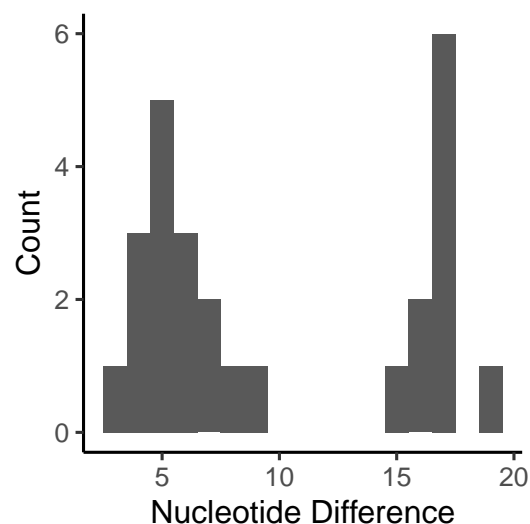
IGHV3-100*01_S4375

21 sequences assigned
No exact matches.



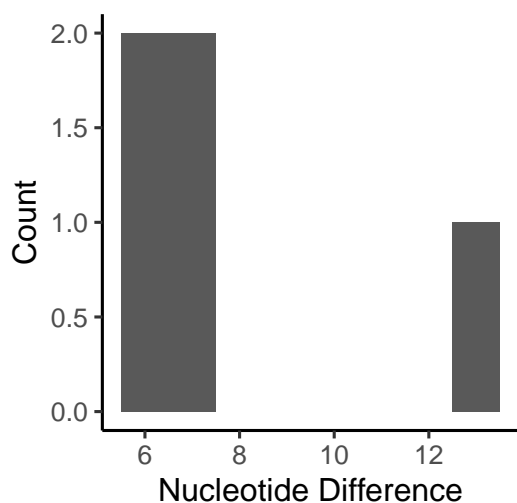
IGHV3-127*01_S5171

33 sequences assigned
No exact matches.



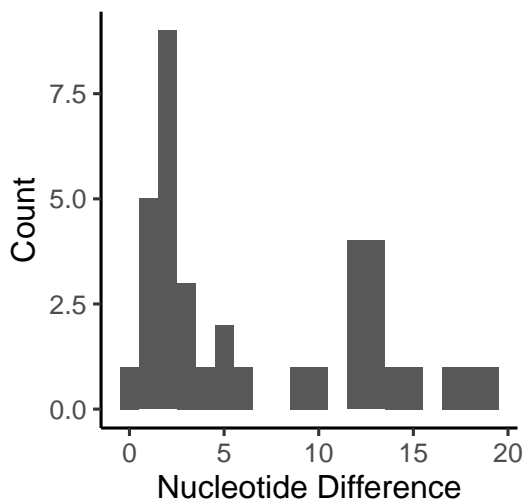
IGHV3-73*01_S3636

5 sequences assigned
No exact matches.



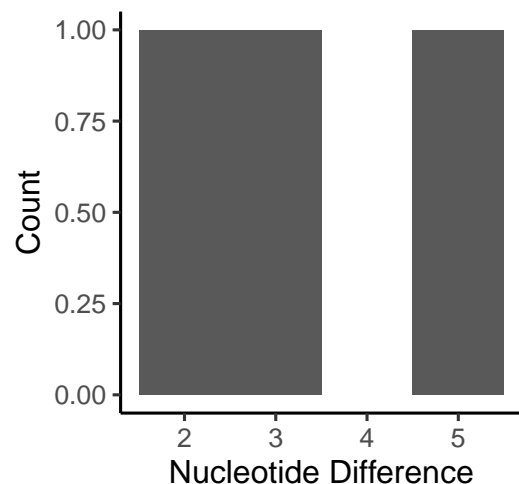
IGHV3-100*02_S9884

38 sequences assigned
1 (2.6%) exact matches, in which:
1 unique CDR3
1 unique J



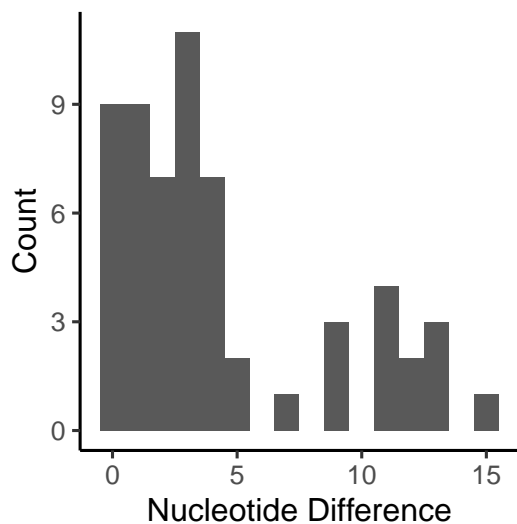
IGHV3-127*01_S6769

3 sequences assigned
No exact matches.



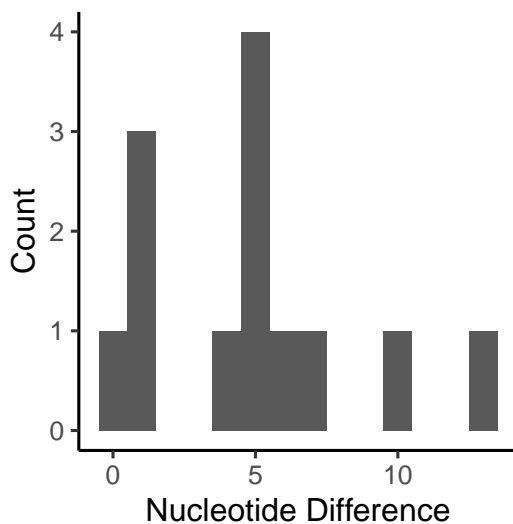
IGHV3-76*01_S0794

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



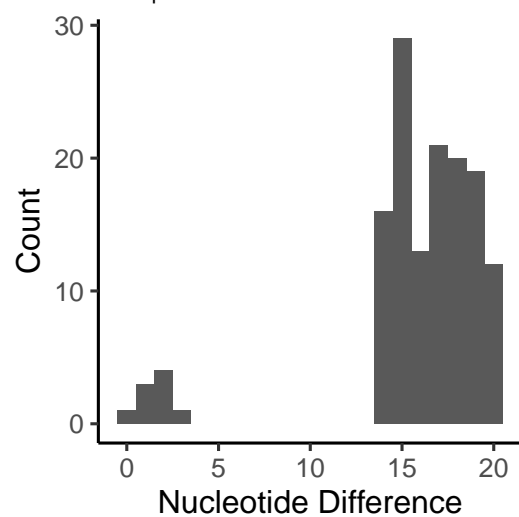
IGHV3-122*01_S8388

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



IGHV3-128*02_S1375

268 sequences assigned
1 (0.4%) exact matches, in which:
1 unique CDR3
1 unique J



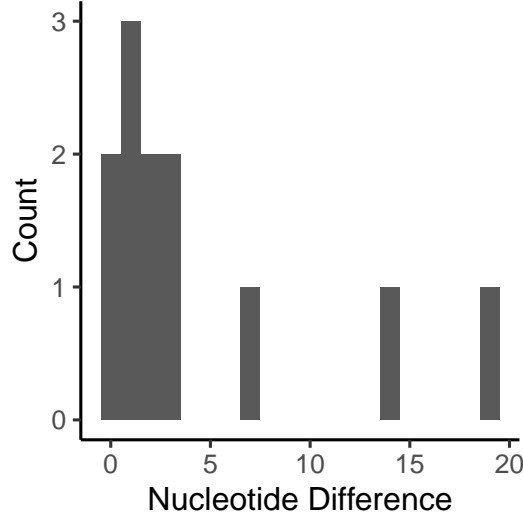
IGHV3-141*01_S4264

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



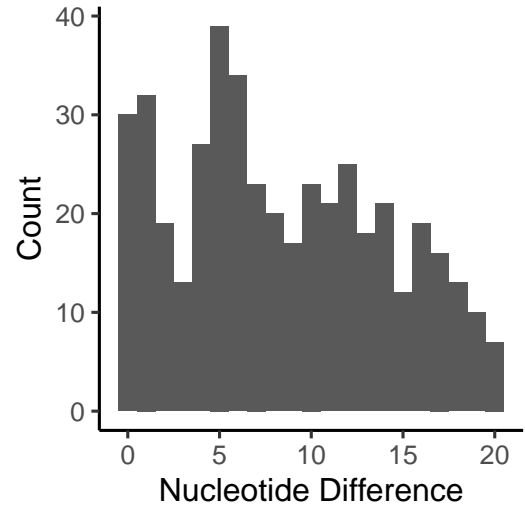
IGHV3-177*01_S5369

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



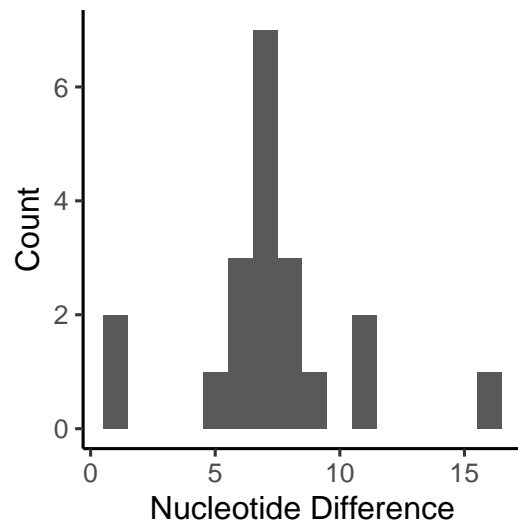
IGHV3-NL_11*01_S4619

476 sequences assigned
30 (6.3%) exact matches, in which:
18 unique CDR3
1 unique J



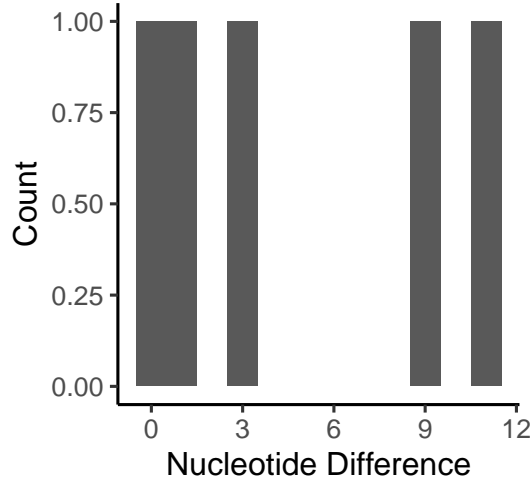
IGHV3-172*01_S1597

20 sequences assigned
No exact matches.



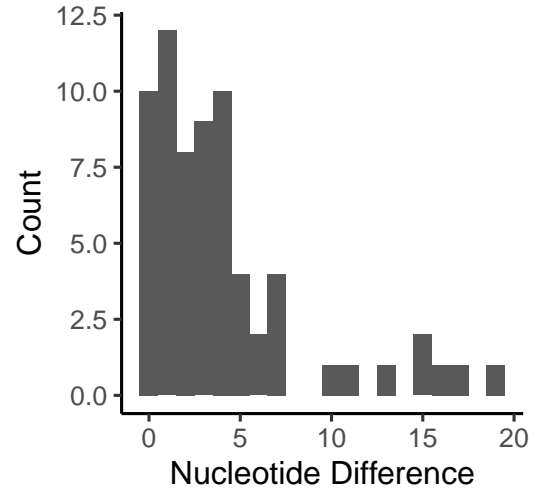
IGHV3-187*02_S8458

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



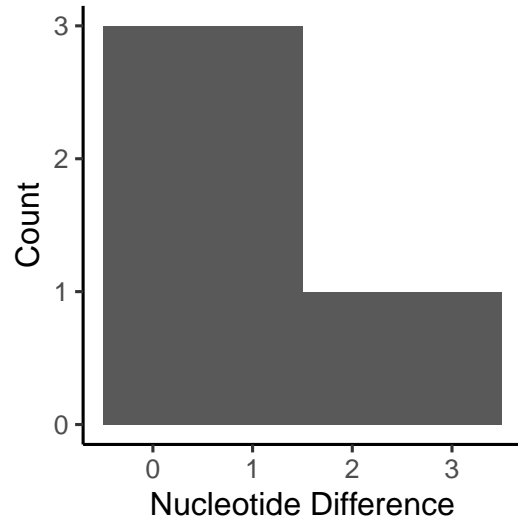
IGHV3-NL_14*01_S0722

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



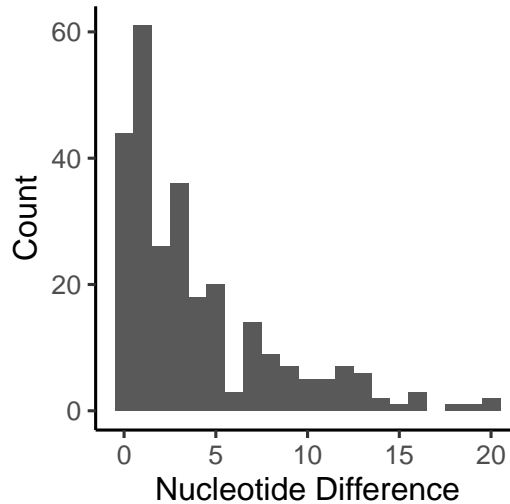
IGHV3-172*01_S2175

8 sequences assigned
3 (37.5%) exact matches, in which:
2 unique CDR3
1 unique J



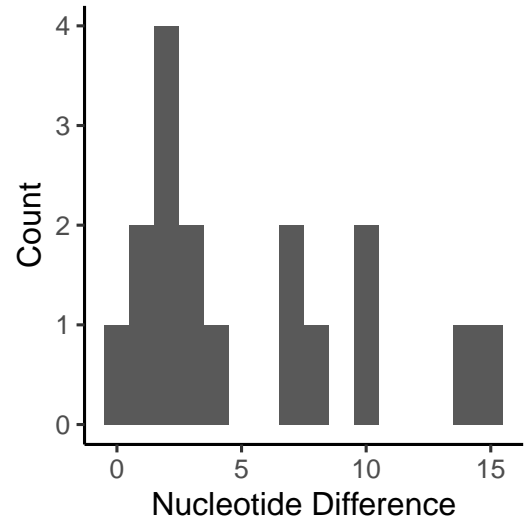
IGHV3-NL_1*01_S3947

327 sequences assigned
44 (13.5%) exact matches, in which:
28 unique CDR3
1 unique J



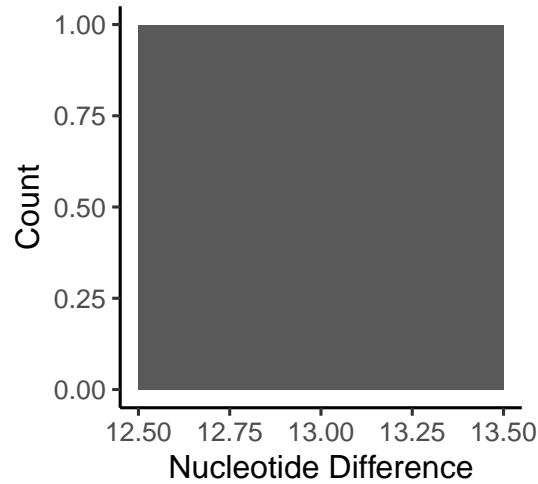
IGHV3-NL_14*01_S1113

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



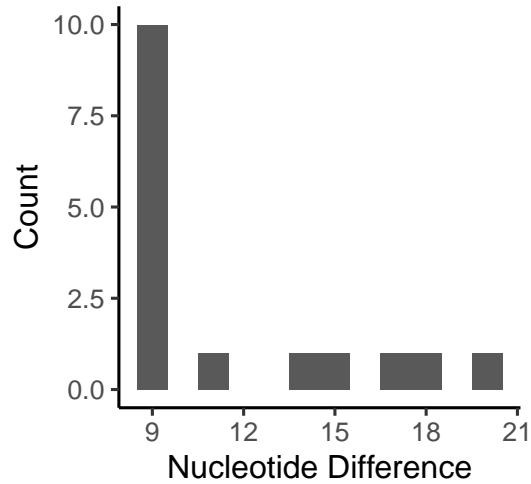
IGHV3–NL_4*01_S9067

1 sequences assigned
No exact matches.



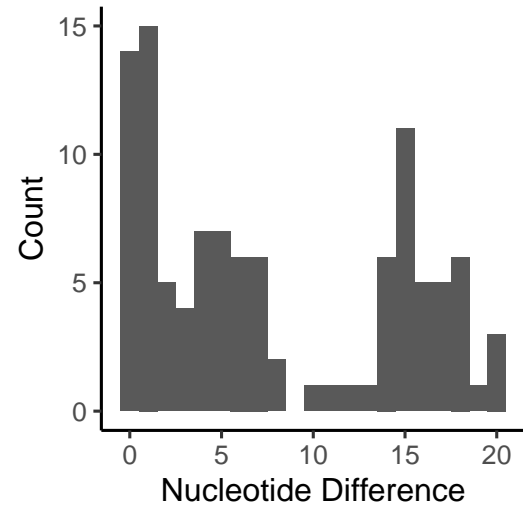
IGHV4–67*02_S8671

17 sequences assigned
No exact matches.



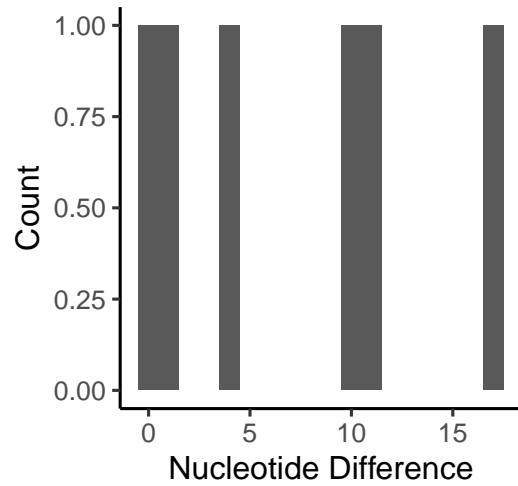
IGHV4–149*01_S0794

157 sequences assigned
14 (8.9%) exact matches, in which:
8 unique CDR3
1 unique J



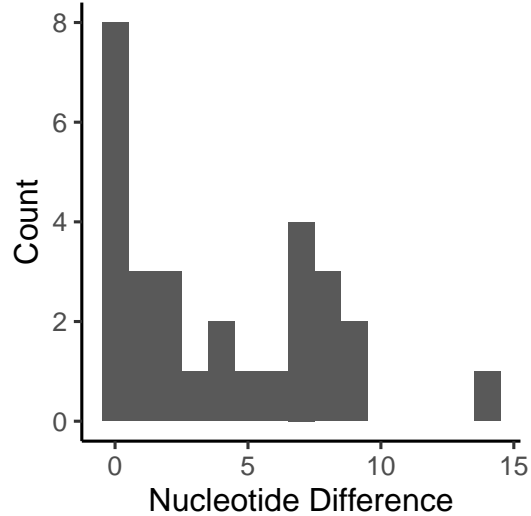
IGHV3–NL_9*01_S6098

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



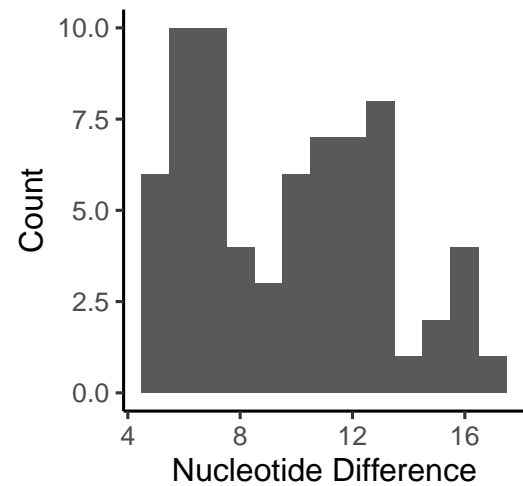
IGHV4–117*01_S3417

29 sequences assigned
8 (27.6%) exact matches, in which:
7 unique CDR3
1 unique J



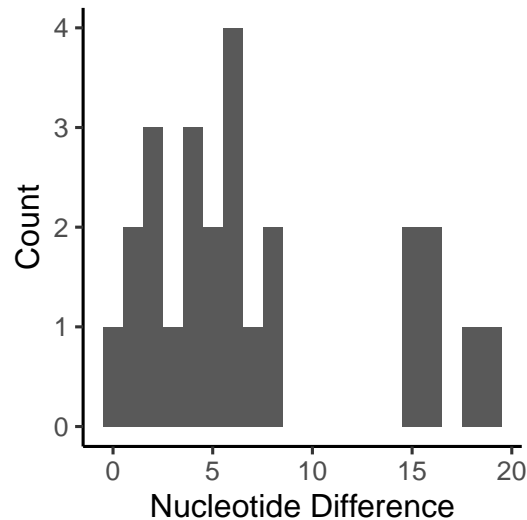
IGHV4–174*01

72 sequences assigned
No exact matches.



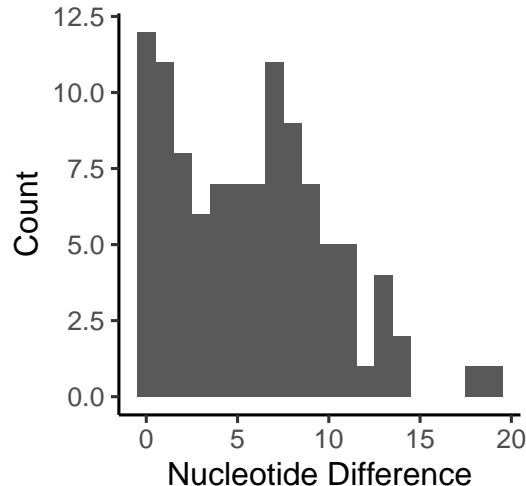
IGHV4–67*01_S8901

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



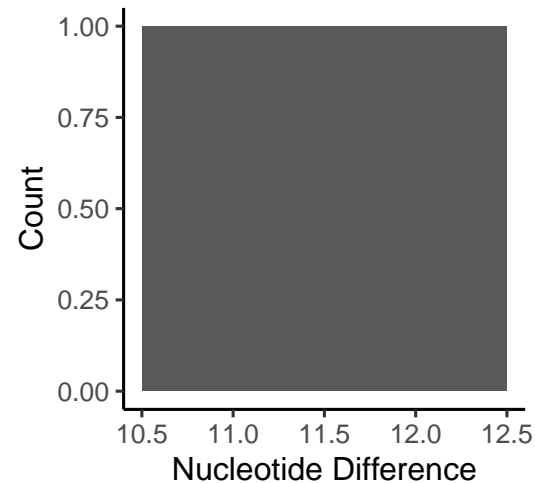
IGHV4–144*01_S3113

221 sequences assigned
12 (5.4%) exact matches, in which:
8 unique CDR3
1 unique J



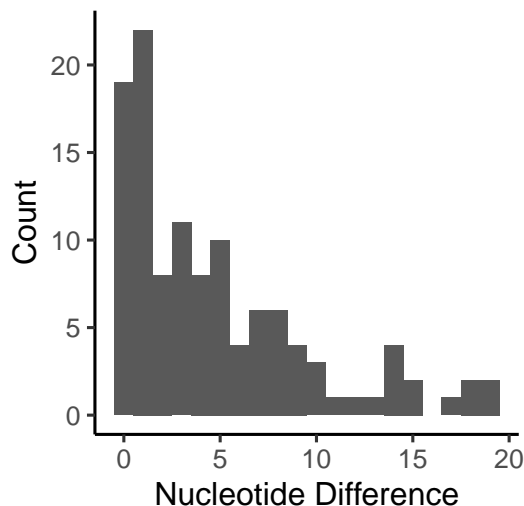
IGHV4–174*02_S5400

3 sequences assigned
No exact matches.



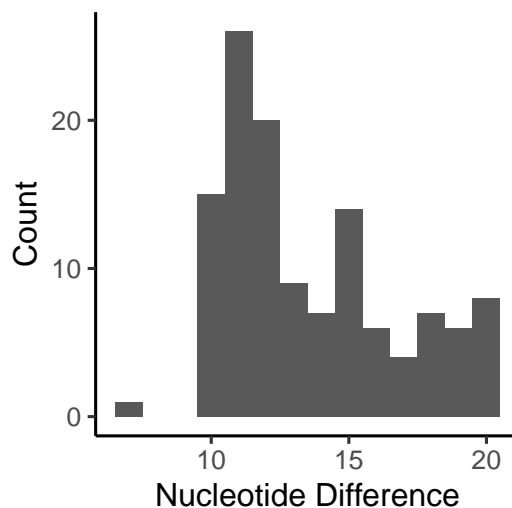
IGHV4–NL_1*01_S1593

124 sequences assigned
19 (15.3%) exact matches, in which:
15 unique CDR3
1 unique J



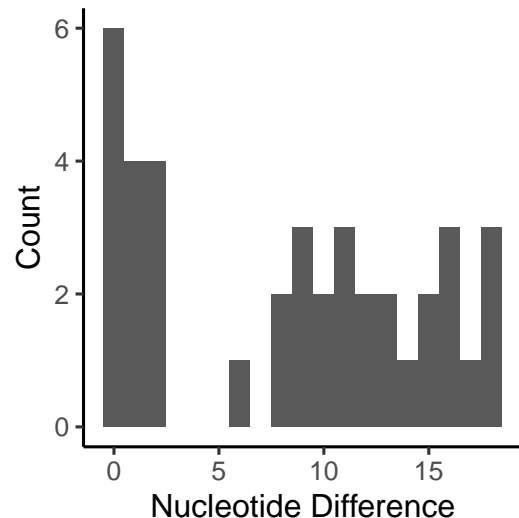
IGHV4–NL_13*01_S9744

156 sequences assigned
No exact matches.



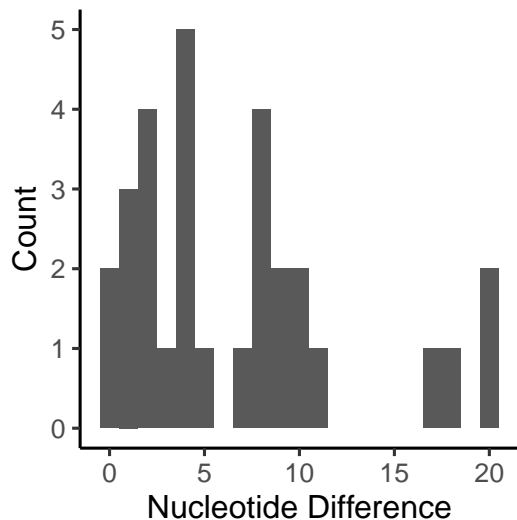
IGHV4–NL_20*01_S4754

41 sequences assigned
6 (14.6%) exact matches, in which:
6 unique CDR3
1 unique J



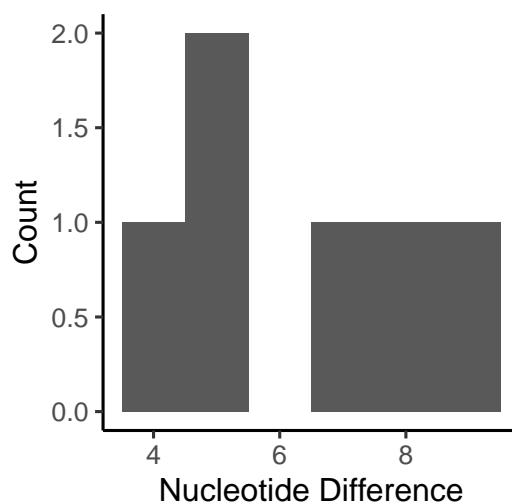
IGHV4–NL_1*02_S1777

43 sequences assigned
2 (4.7%) exact matches, in which:
2 unique CDR3
1 unique J



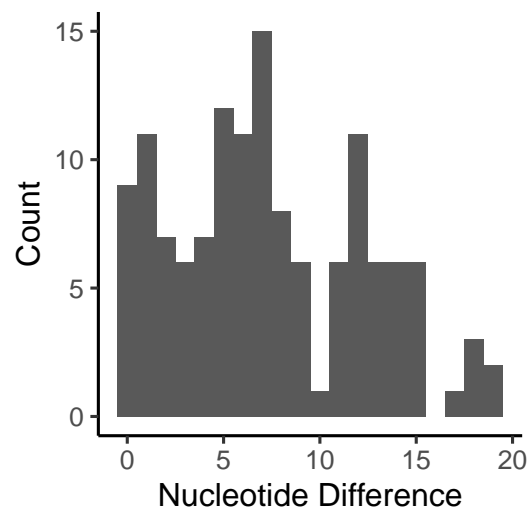
IGHV4–NL_16*01_S2324

7 sequences assigned
No exact matches.



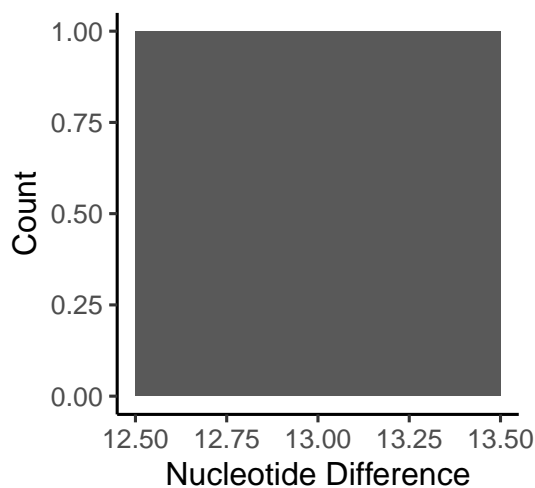
IGHV4–NL_21*01_S0138

186 sequences assigned
9 (4.8%) exact matches, in which:
8 unique CDR3
1 unique J



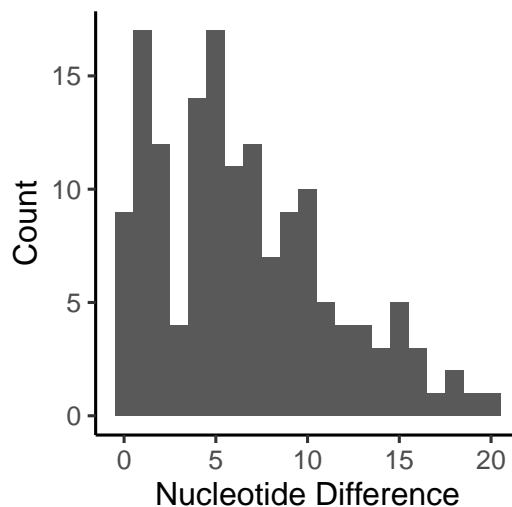
IGHV4–NL_13*01_S9624

5 sequences assigned
No exact matches.



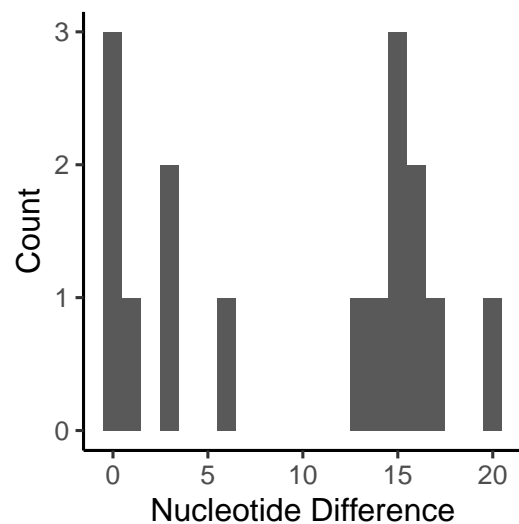
IGHV4–NL_17*01_S4099

156 sequences assigned
9 (5.8%) exact matches, in which:
9 unique CDR3
1 unique J



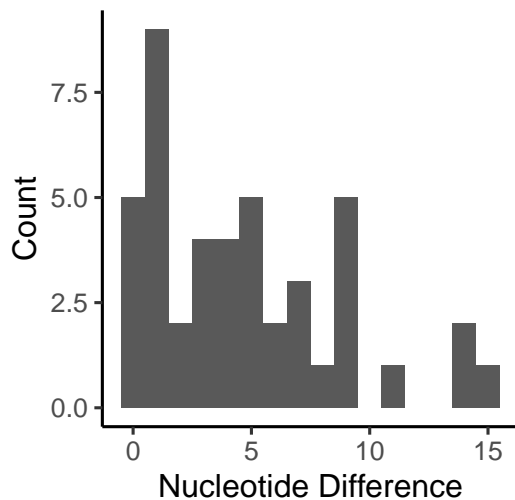
IGHV4–NL_22*01_S2393

21 sequences assigned
3 (14.3%) exact matches, in which:
2 unique CDR3
1 unique J



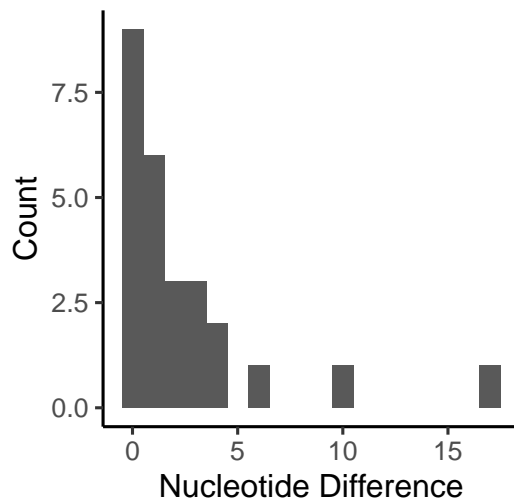
IGHV4-NL_23*01_S4212

45 sequences assigned
5 (11.1%) exact matches, in which:
4 unique CDR3
1 unique J



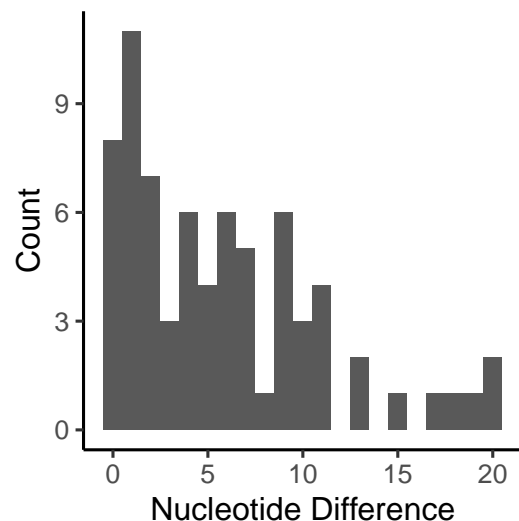
IGHV4-NL_36*01_S5847

27 sequences assigned
9 (33.3%) exact matches, in which:
9 unique CDR3
1 unique J



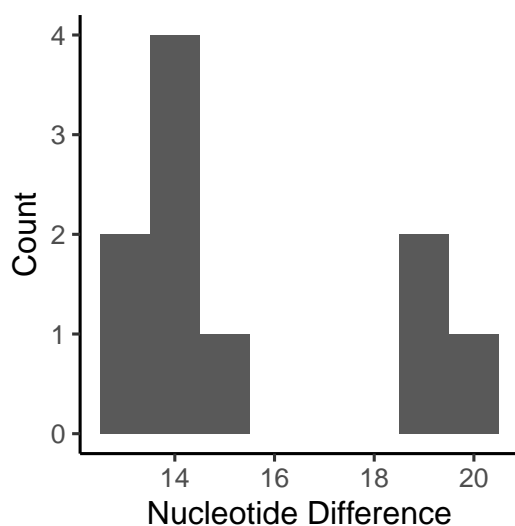
IGHV4-NL_42*01_S3666

72 sequences assigned
8 (11.1%) exact matches, in which:
6 unique CDR3
1 unique J



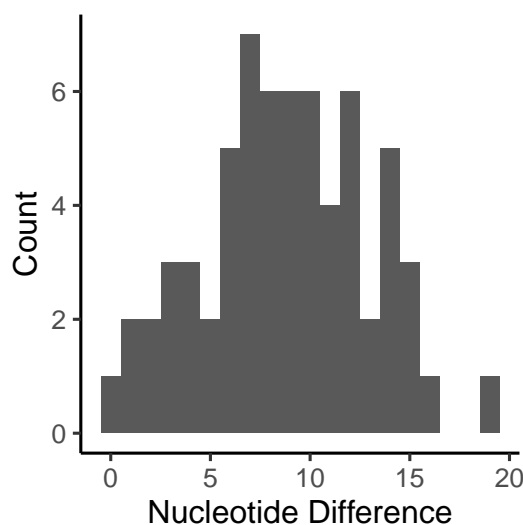
IGHV4-NL_3*01_S7576

10 sequences assigned
No exact matches.



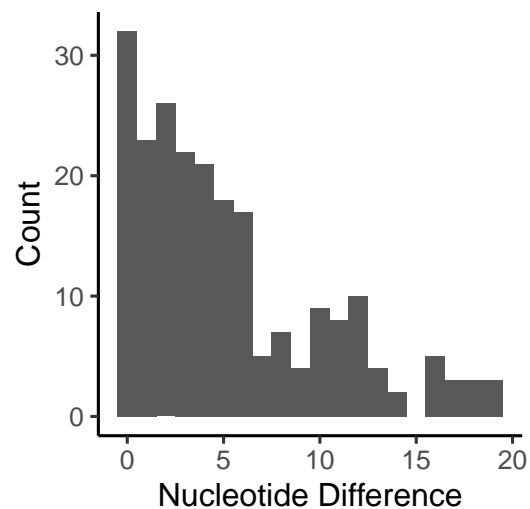
IGHV4-NL_4*01_S8866

65 sequences assigned
1 (1.5%) exact matches, in which:
1 unique CDR3
1 unique J



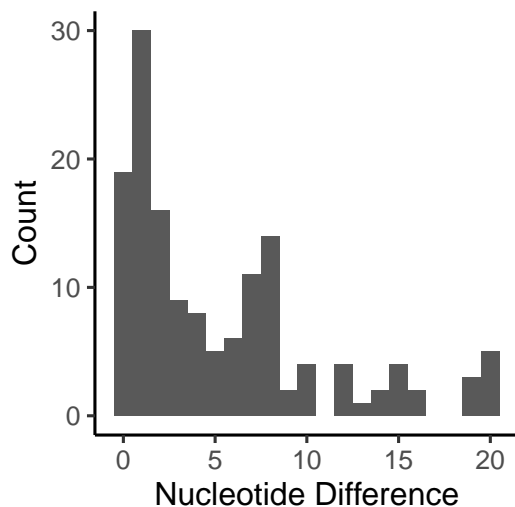
IGHV4-NL_5*01_S0876

229 sequences assigned
32 (14%) exact matches, in which:
23 unique CDR3
1 unique J



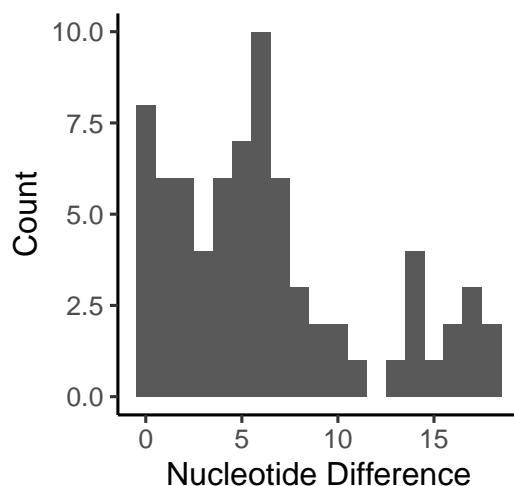
IGHV4-NL_33*01_S4377

155 sequences assigned
19 (12.3%) exact matches, in which:
16 unique CDR3
1 unique J



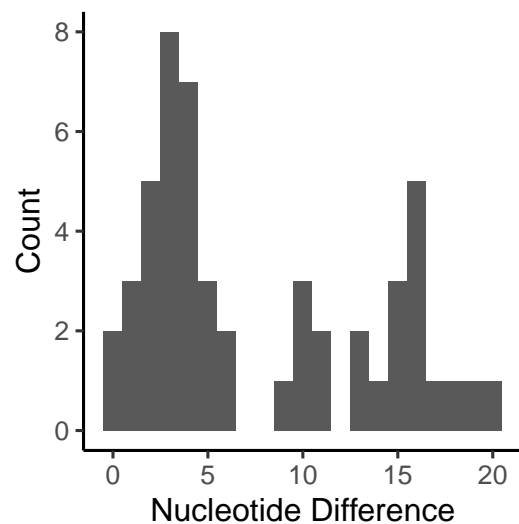
IGHV4-NL_40*01_S0696

77 sequences assigned
8 (10.4%) exact matches, in which:
7 unique CDR3
1 unique J



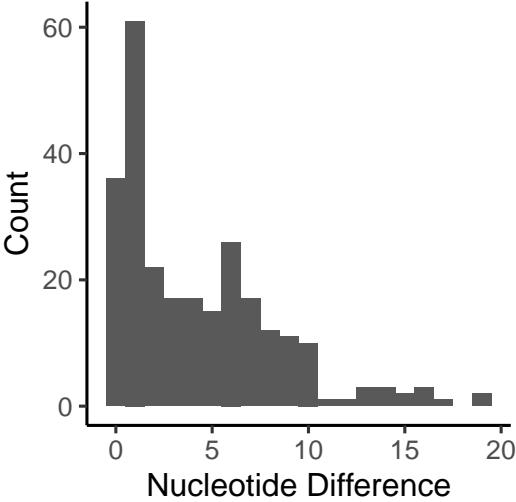
IGHV4-NL_9*01_S3502

54 sequences assigned
2 (3.7%) exact matches, in which:
2 unique CDR3
1 unique J



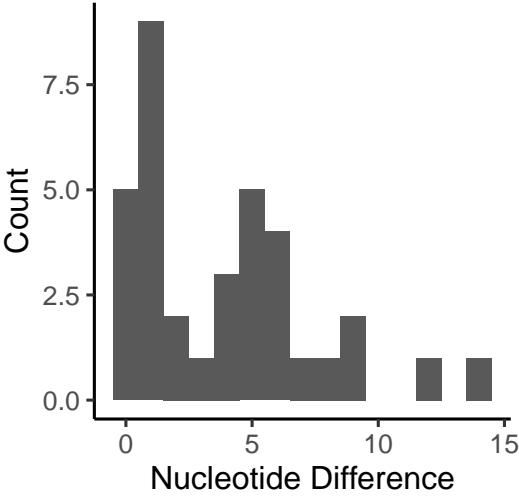
IGHV5-15*01_S4790

260 sequences assigned
36 (13.8%) exact matches, in which:
20 unique CDR3
1 unique J



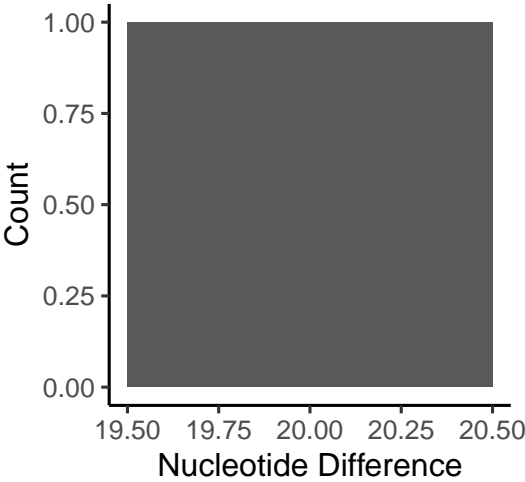
IGHV5-157*01_S5960

36 sequences assigned
5 (13.9%) exact matches, in which:
4 unique CDR3
1 unique J

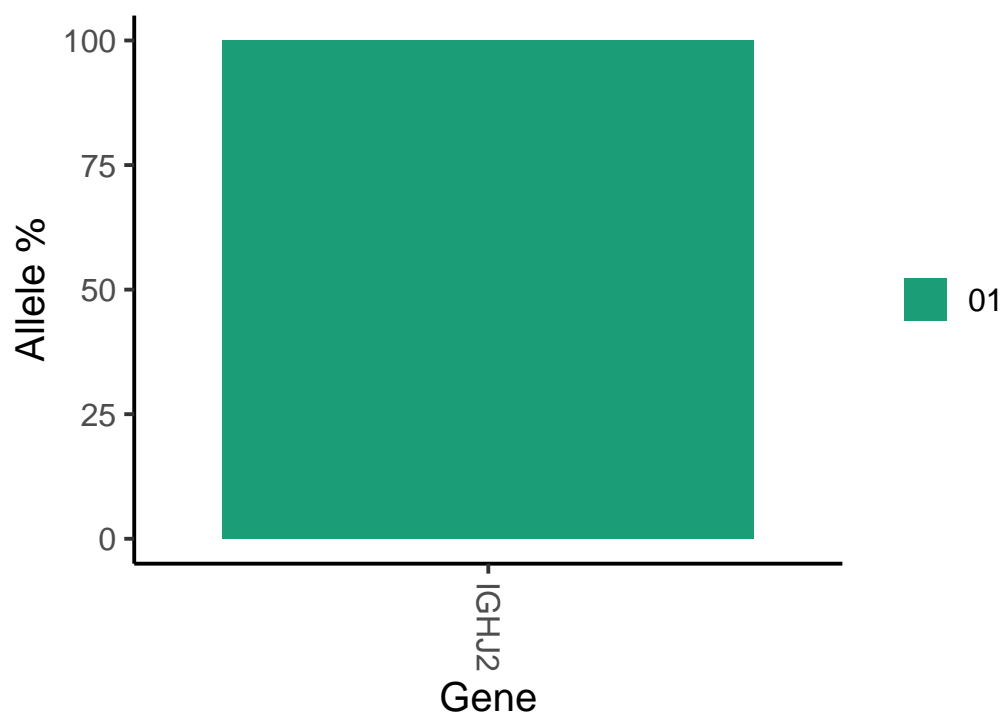


IGHV7-135*01_S4281

30 sequences assigned
No exact matches.



Allele Usage



Warning – no inferred sequences found.