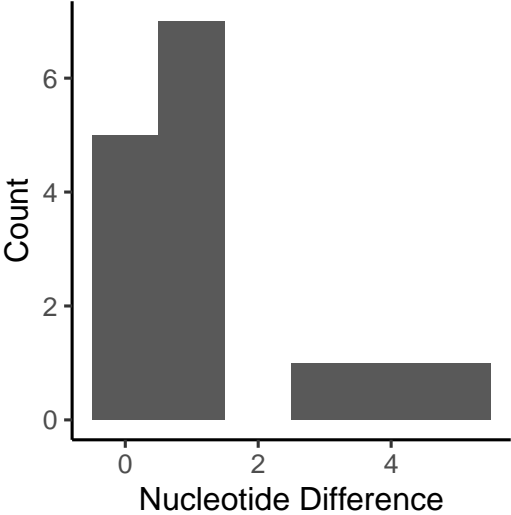


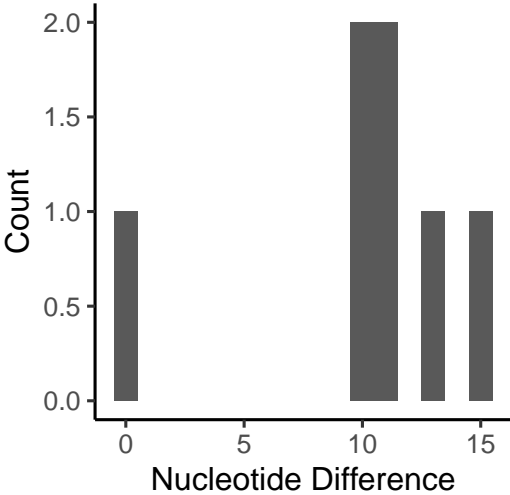
IGHV1-84*01_S0025

15 sequences assigned
5 (33.3%) exact matches, in which:
1 unique CDR3
1 unique J



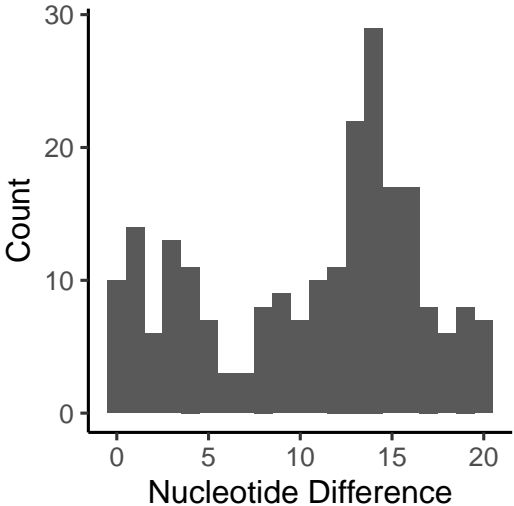
IGHV1-138*01_S8712

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



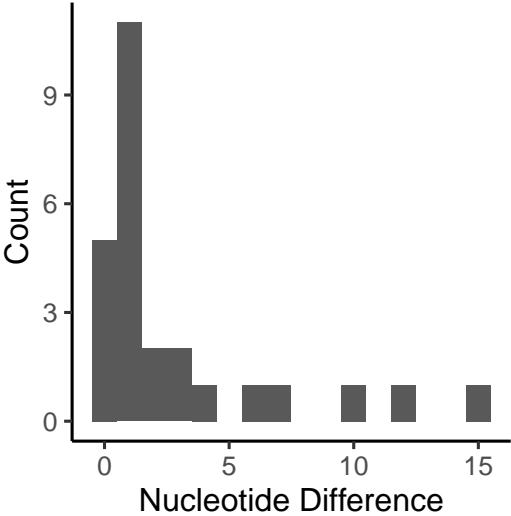
IGHV2-69*02_S0779

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



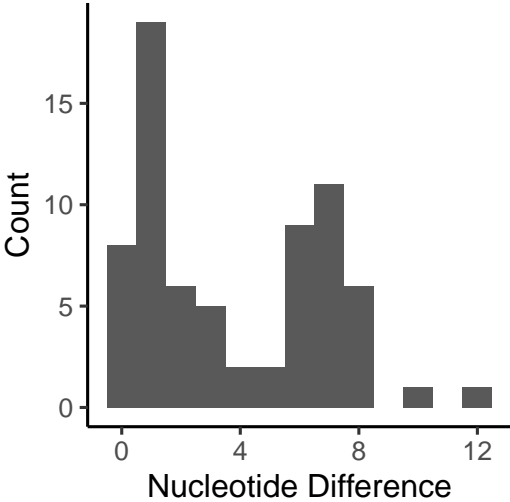
IGHV1-84*01_S2805

26 sequences assigned
5 (19.2%) exact matches, in which:
2 unique CDR3
1 unique J



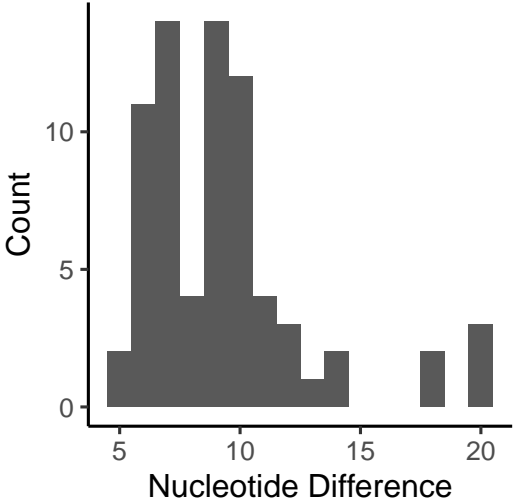
IGHV1-NL_1*01_S2052

70 sequences assigned
8 (11.4%) exact matches, in which:
3 unique CDR3
1 unique J



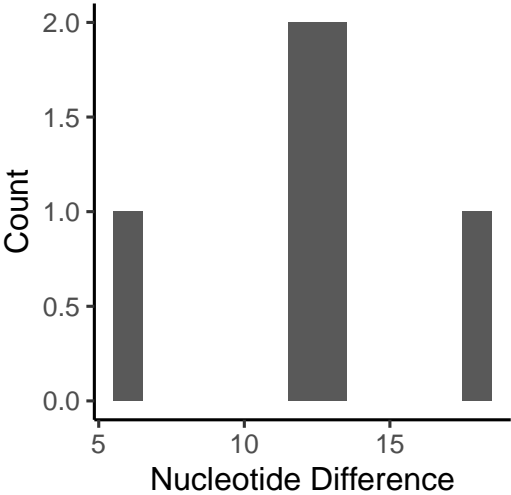
IGHV2-118*01_S3831

79 sequences assigned
No exact matches.



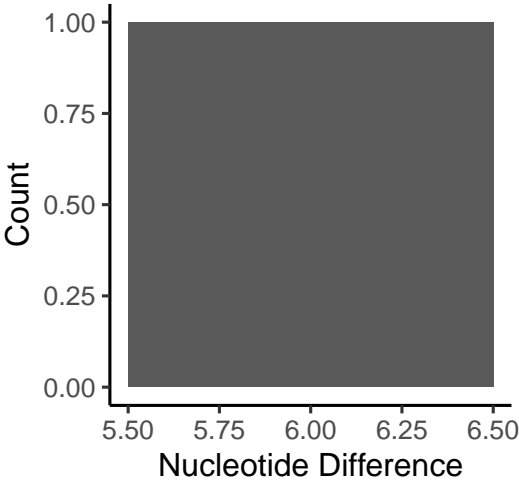
IGHV1-124*01_S6748

7 sequences assigned
No exact matches.



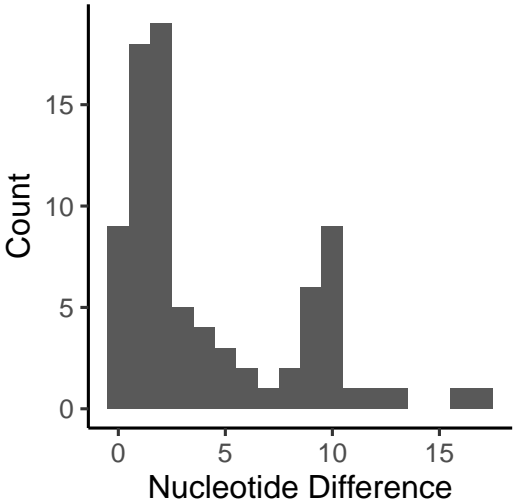
IGHV1-NL_2*01_S9896

1 sequences assigned
No exact matches.



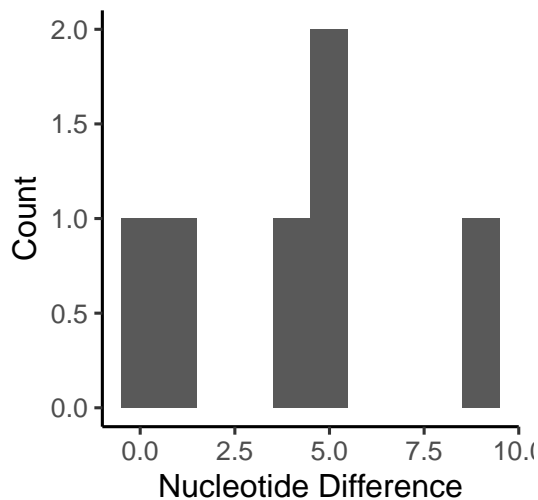
IGHV2-NL_1*01_S5431

86 sequences assigned
9 (10.5%) exact matches, in which:
2 unique CDR3
1 unique J



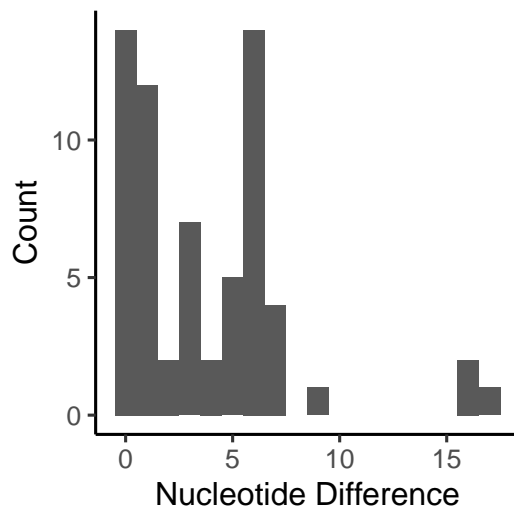
IGHV3-28*01_S3792

44 sequences assigned
1 (2.3%) exact matches, in which:
1 unique CDR3
1 unique J



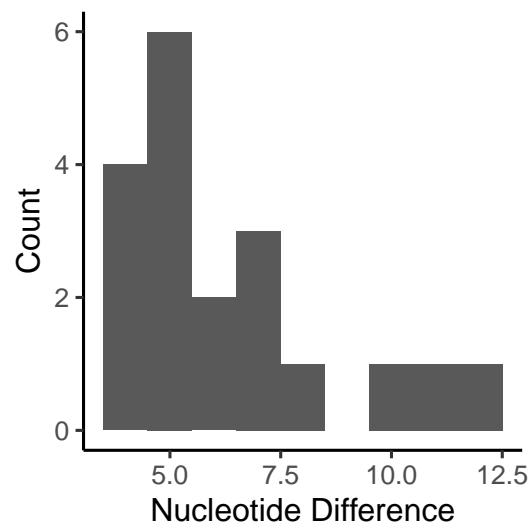
IGHV3-52*02_S2646

65 sequences assigned
14 (21.5%) exact matches, in which:
6 unique CDR3
1 unique J



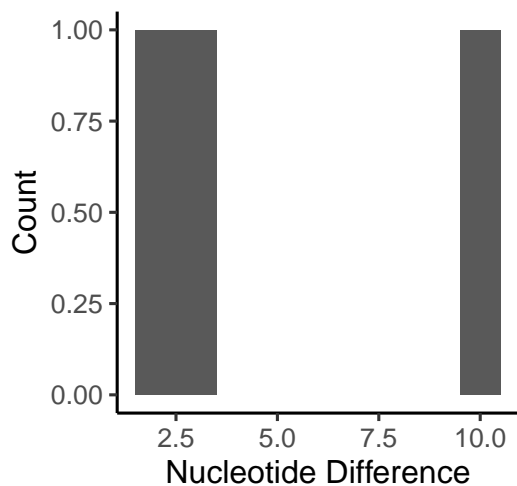
IGHV3-76*01_S4285

20 sequences assigned
No exact matches.



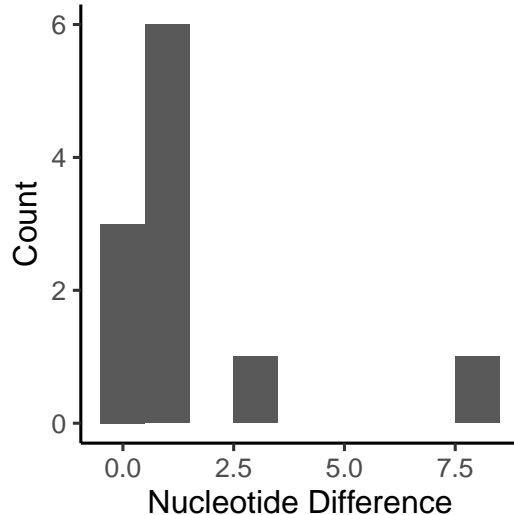
IGHV3-36*01_S5206

3 sequences assigned
No exact matches.



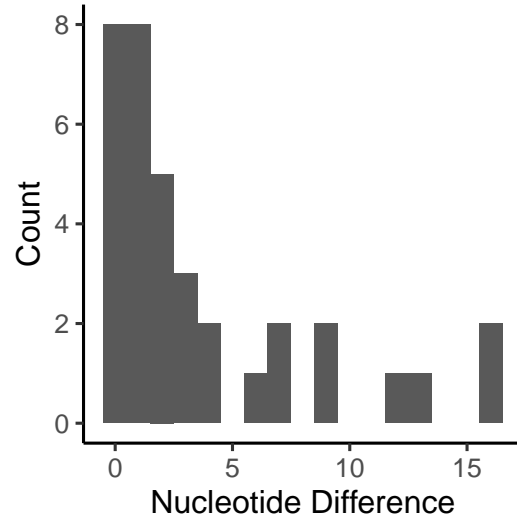
IGHV3-53*01_S4423

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



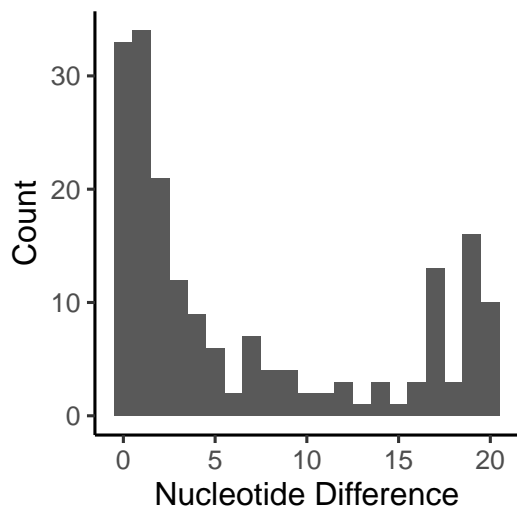
IGHV3-76*01_S6599

35 sequences assigned
8 (22.9%) exact matches, in which:
3 unique CDR3
1 unique J



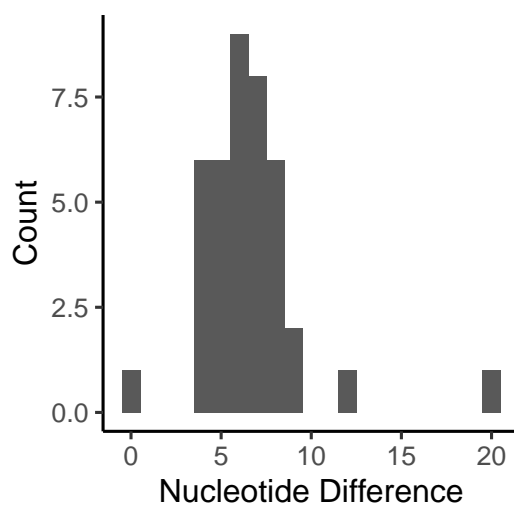
IGHV3-50*01_S7243

269 sequences assigned
33 (12.3%) exact matches, in which:
13 unique CDR3
1 unique J



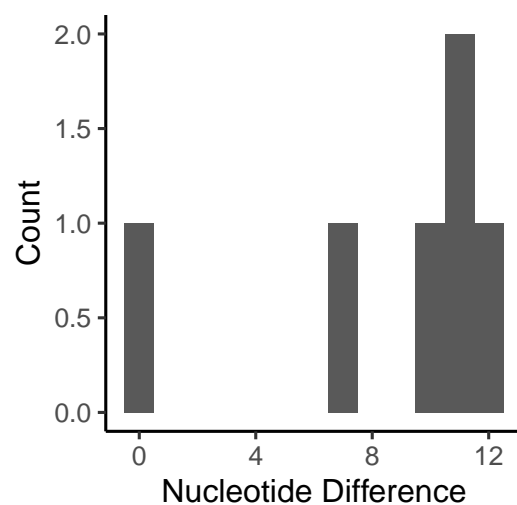
IGHV3-53*02_S0150

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



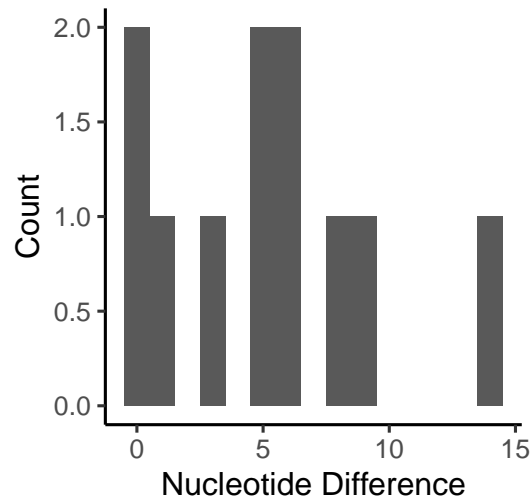
IGHV3-88*02_S5187

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



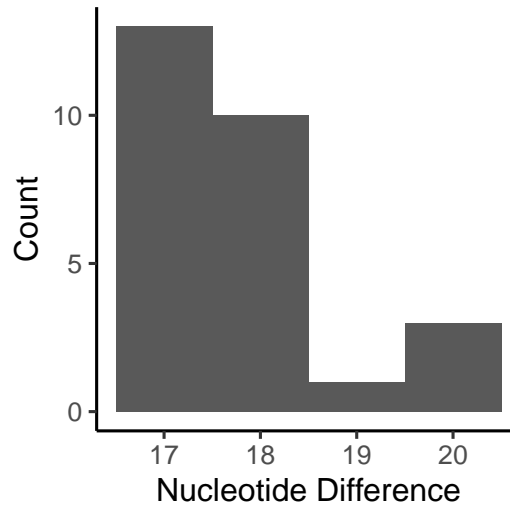
IGHV3–88*02_S9033

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



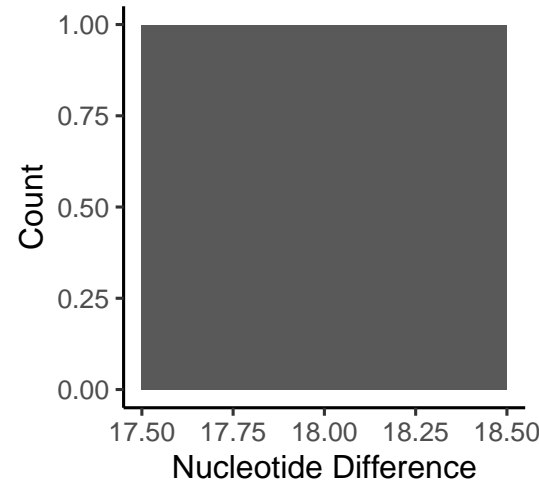
IGHV3–141*01_S4264

47 sequences assigned
No exact matches.



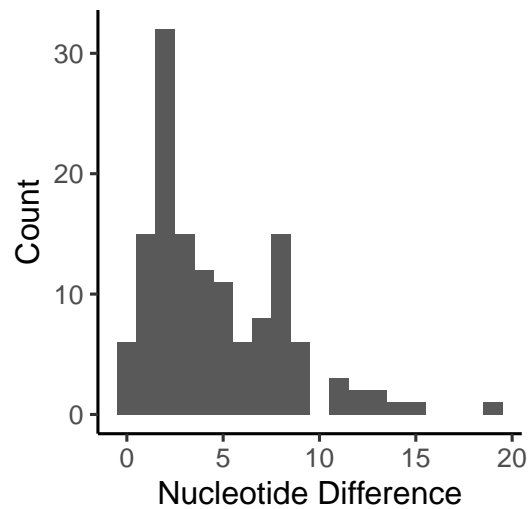
IGHV3–175*01

1 sequences assigned
No exact matches.



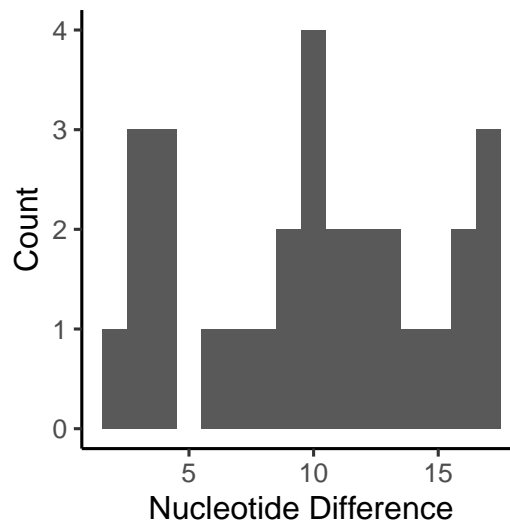
IGHV3–127*01_S7059

142 sequences assigned
6 (4.2%) exact matches, in which:
2 unique CDR3
1 unique J



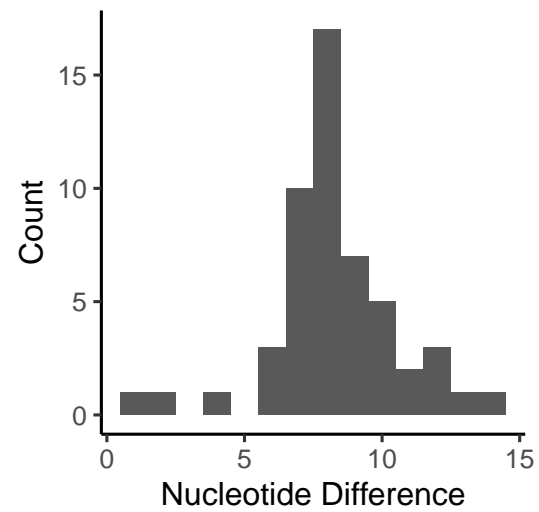
IGHV3–152*01_S7388

31 sequences assigned
No exact matches.



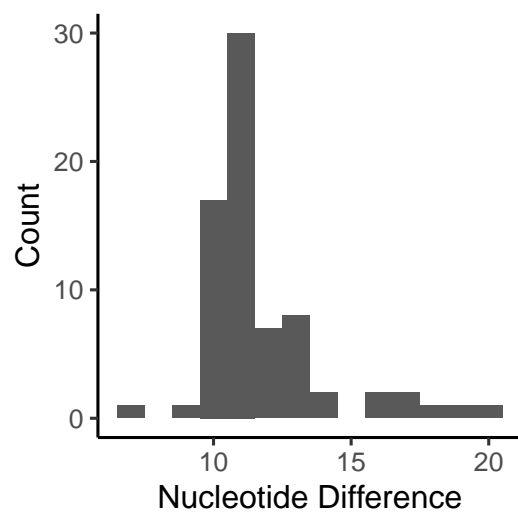
IGHV3–187*01_S3395

52 sequences assigned
No exact matches.



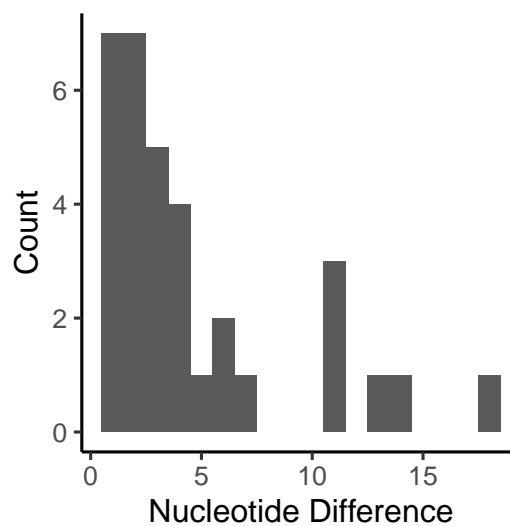
IGHV3–128*02_S0204

76 sequences assigned
No exact matches.



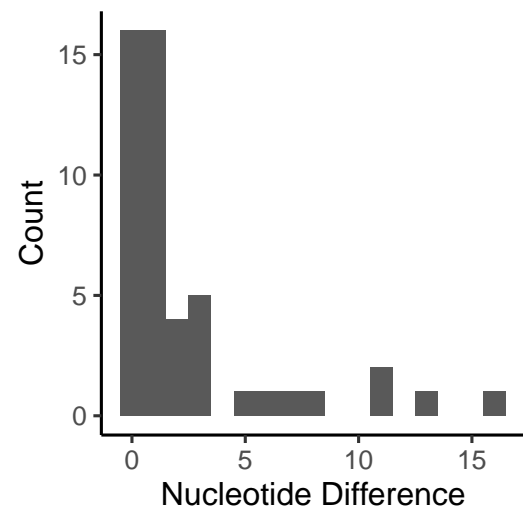
IGHV3–172*01_S8488

34 sequences assigned
No exact matches.



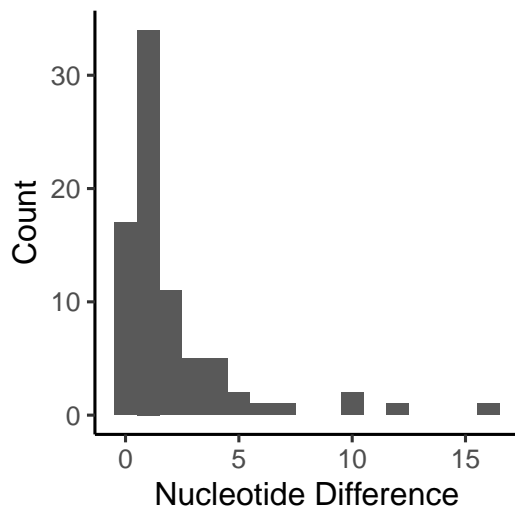
IGHV3–187*01_S9930

49 sequences assigned
16 (32.7%) exact matches, in which:
5 unique CDR3
1 unique J



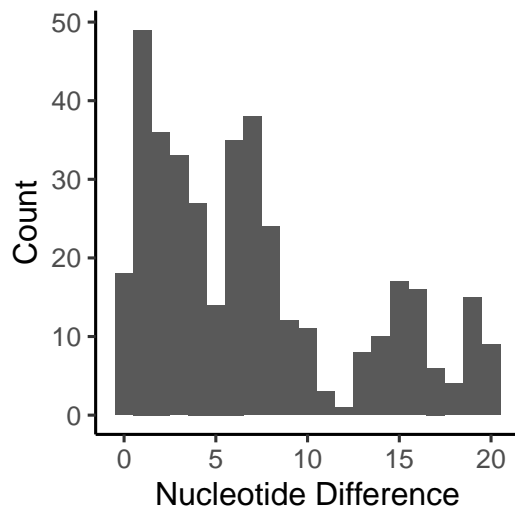
IGHV3–NL_1*01_S2031

80 sequences assigned
17 (21.2%) exact matches, in which:
8 unique CDR3
1 unique J



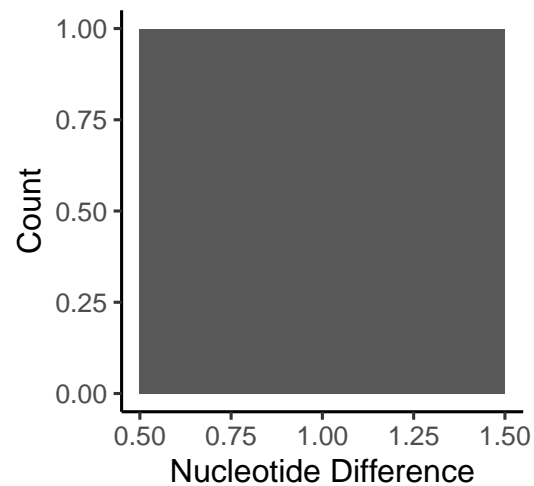
IGHV3–NL_11*01_S3736

452 sequences assigned
18 (4%) exact matches, in which:
7 unique CDR3
1 unique J



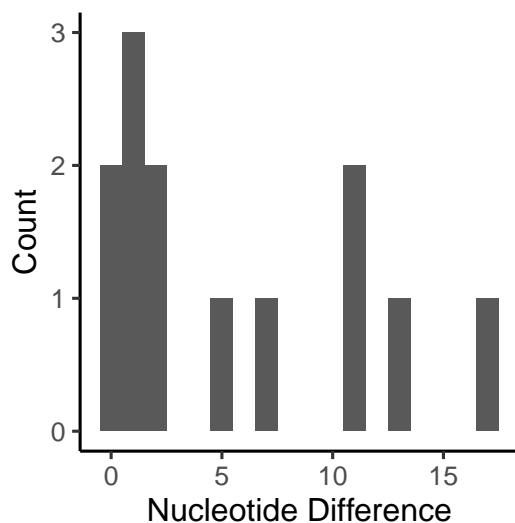
IGHV3–NL_6*02_S7808

1 sequences assigned
No exact matches.



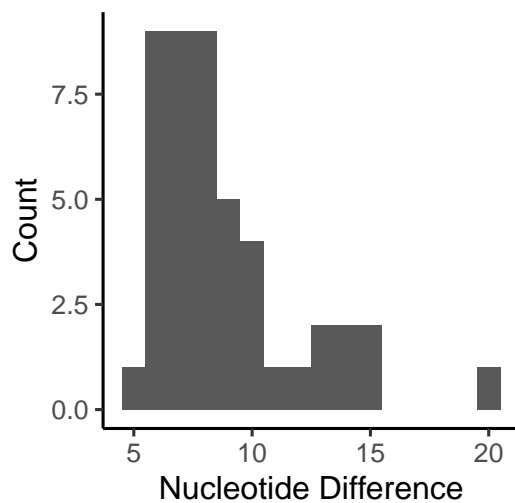
IGHV3–NL_1*01_S9854

13 sequences assigned
2 (15.4%) exact matches, in which:
2 unique CDR3
1 unique J



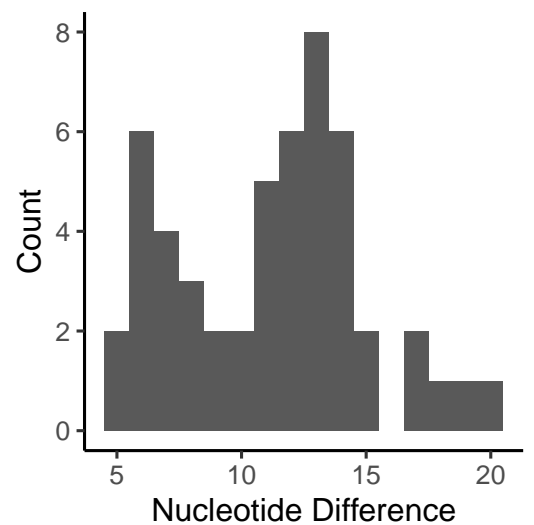
IGHV3–NL_17*01_S4257

47 sequences assigned
No exact matches.



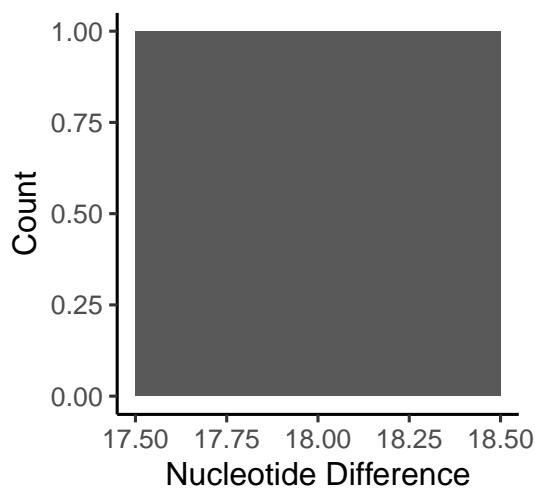
IGHV4–72*01_S2051

55 sequences assigned
No exact matches.



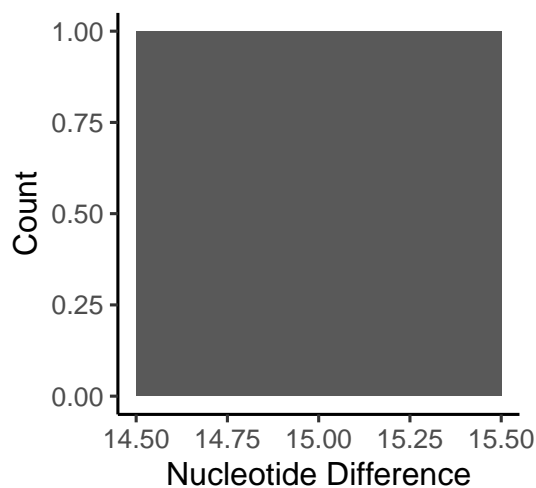
IGHV3–NL_10*02_S1970

1 sequences assigned
No exact matches.



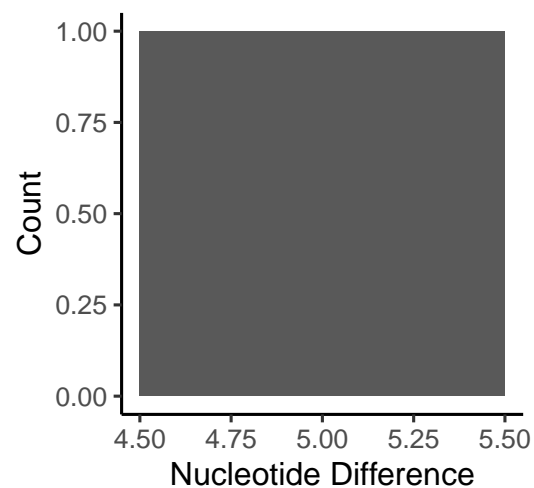
IGHV3–NL_4*01_S9392

1 sequences assigned
No exact matches.



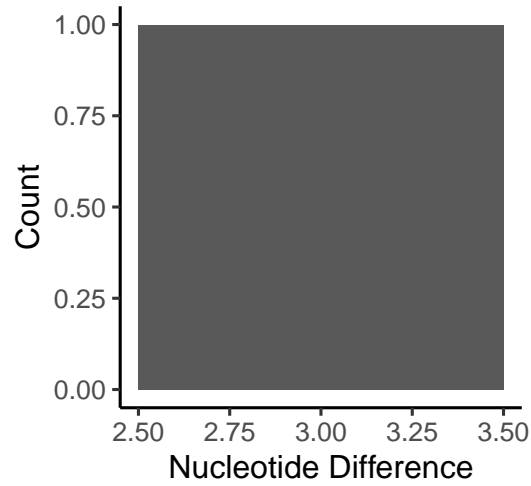
IGHV4–79*02_S9501

1 sequences assigned
No exact matches.



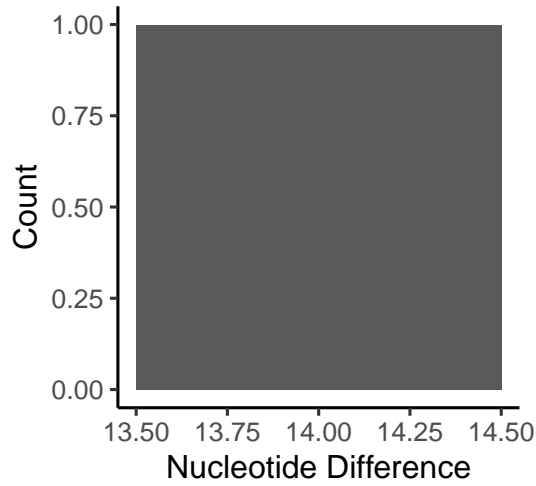
IGHV4-93*01_S5203

1 sequences assigned
No exact matches.



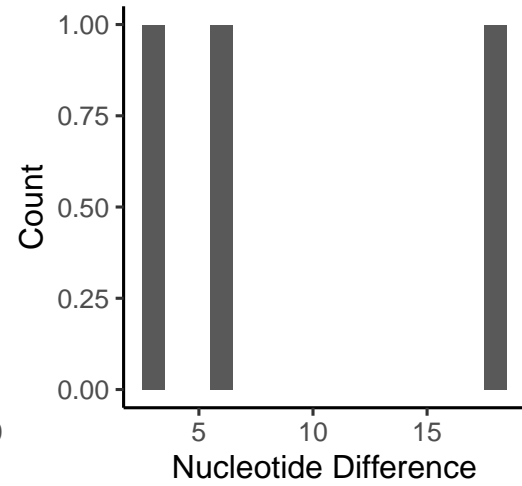
IGHV4-144*01_S3676

1 sequences assigned
No exact matches.



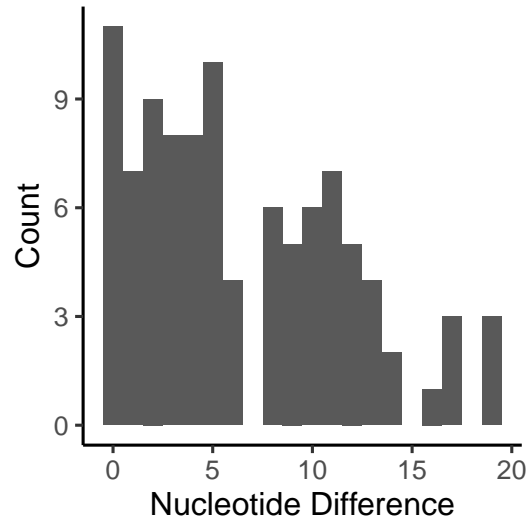
IGHV4-149*01_S9613

11 sequences assigned
No exact matches.



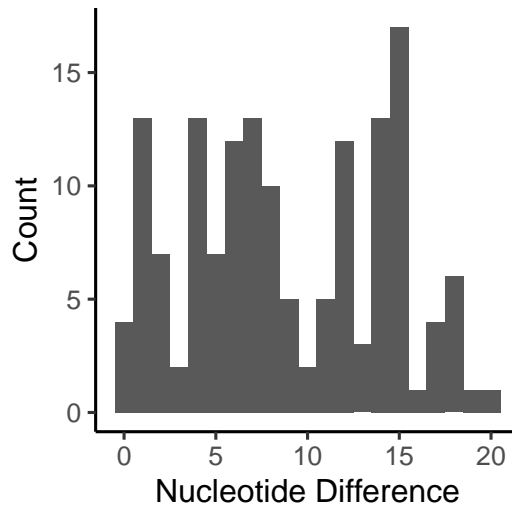
IGHV4-117*01_S6342

115 sequences assigned
11 (9.6%) exact matches, in which:
9 unique CDR3
1 unique J



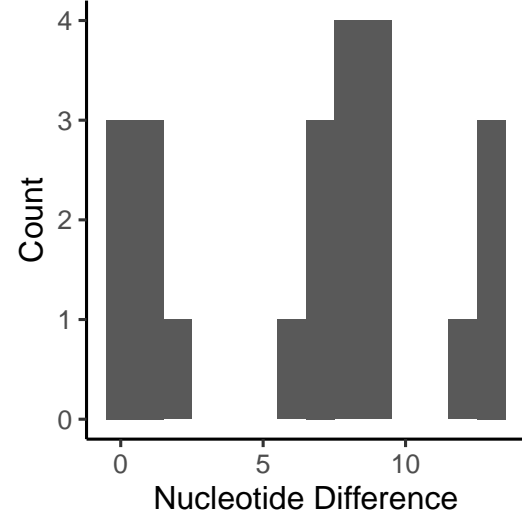
IGHV4-149*01_S1430

180 sequences assigned
4 (2.2%) exact matches, in which:
3 unique CDR3
1 unique J



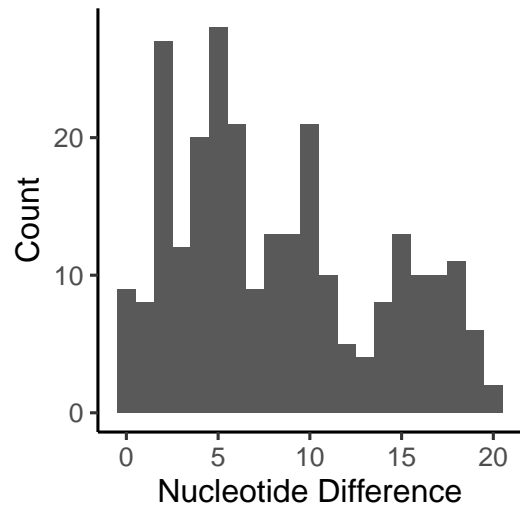
IGHV4-150*01_S2067

23 sequences assigned
3 (13%) exact matches, in which:
2 unique CDR3
1 unique J



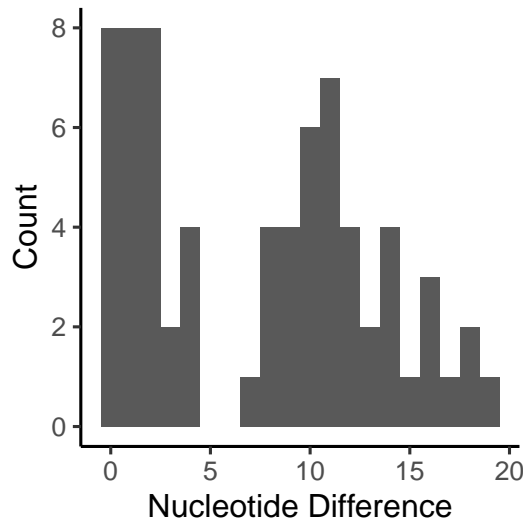
IGHV4-117*01_S6852

284 sequences assigned
9 (3.2%) exact matches, in which:
6 unique CDR3
1 unique J



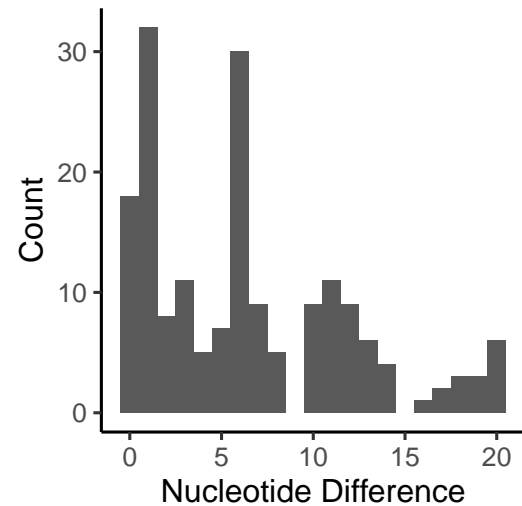
IGHV4-149*01_S5636

121 sequences assigned
8 (6.6%) exact matches, in which:
5 unique CDR3
1 unique J



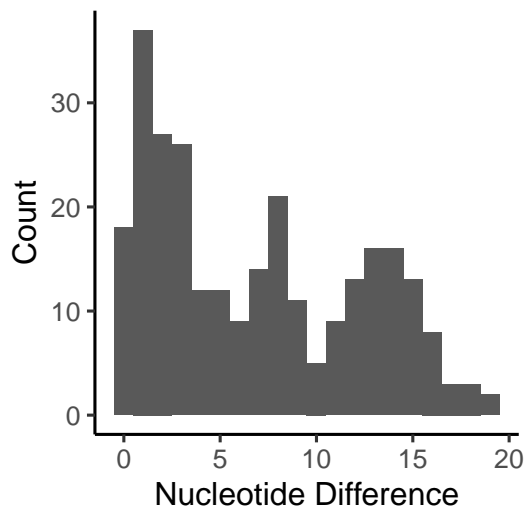
IGHV4-NL_1*01_S1593

186 sequences assigned
18 (9.7%) exact matches, in which:
6 unique CDR3
1 unique J



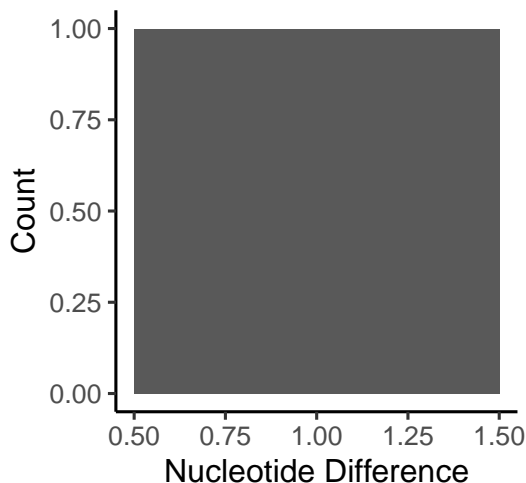
IGHV4–NL_1*01_S8446

316 sequences assigned
18 (5.7%) exact matches, in which:
10 unique CDR3
1 unique J



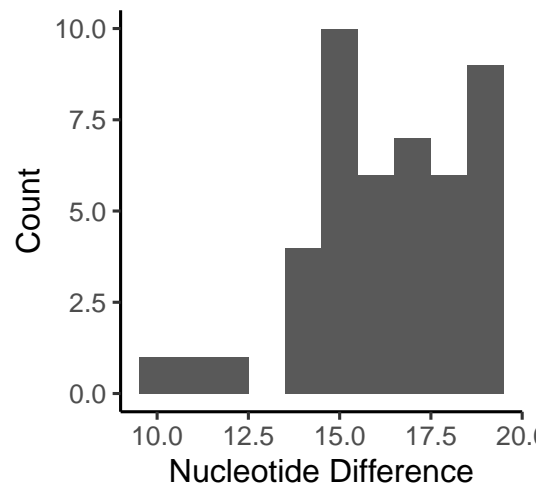
IGHV4–NL_15*01_S5717

1 sequences assigned
No exact matches.



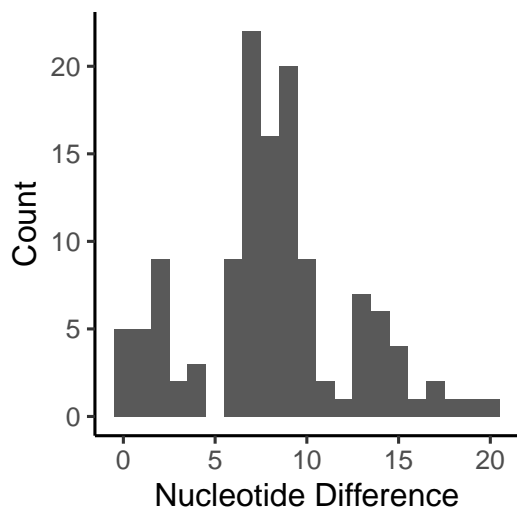
IGHV4–NL_17*01_S5437

50 sequences assigned
No exact matches.



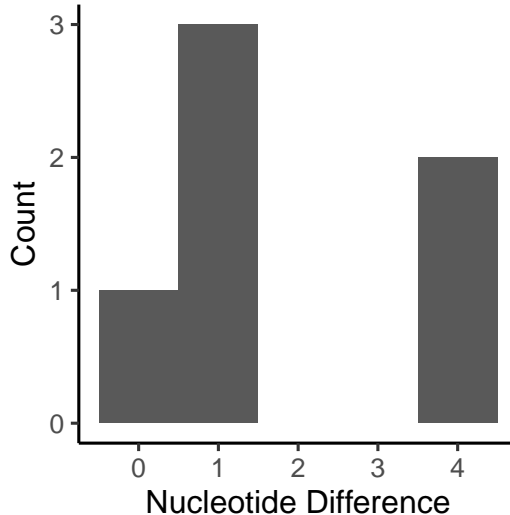
IGHV4–NL_1*02_S2275

140 sequences assigned
5 (3.6%) exact matches, in which:
3 unique CDR3
1 unique J



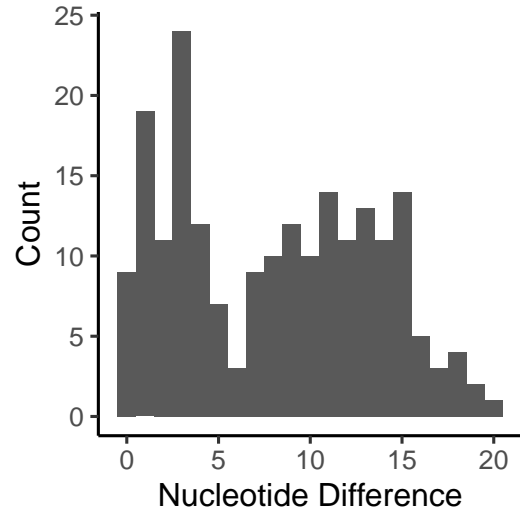
IGHV4–NL_17*01_S2814

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



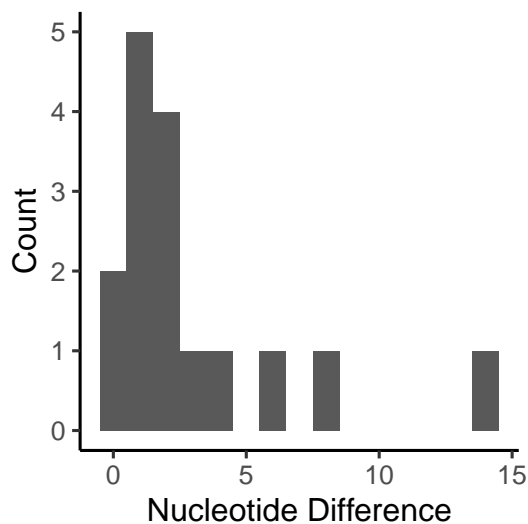
IGHV4–NL_20*01_S7244

222 sequences assigned
9 (4.1%) exact matches, in which:
6 unique CDR3
1 unique J



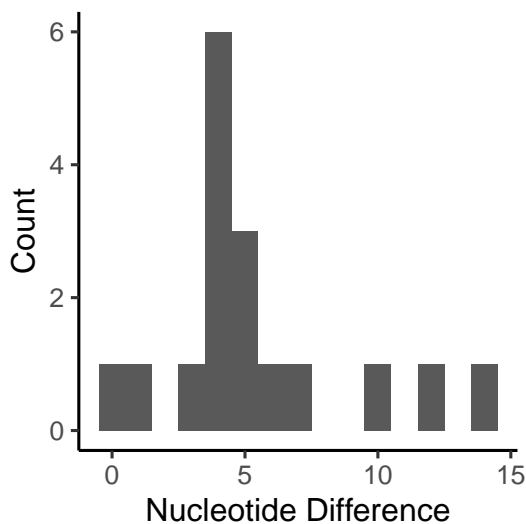
IGHV4–NL_11*01_S0325

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



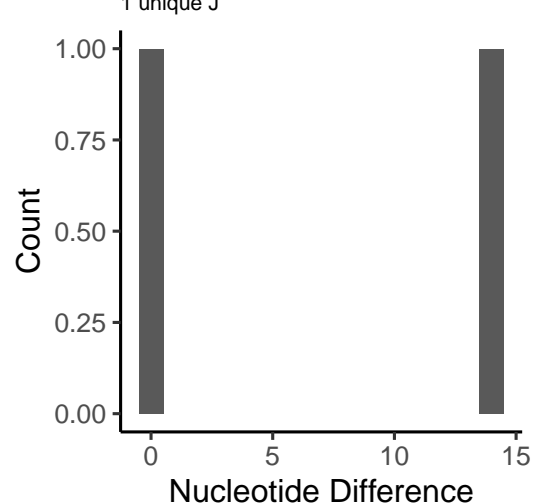
IGHV4–NL_17*01_S3082

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



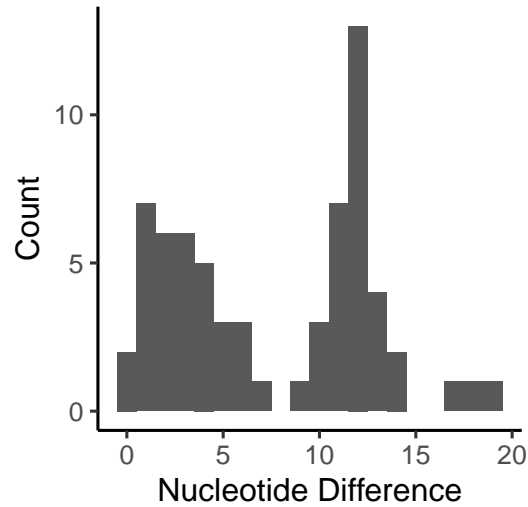
IGHV4–NL_21*01_S0138

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



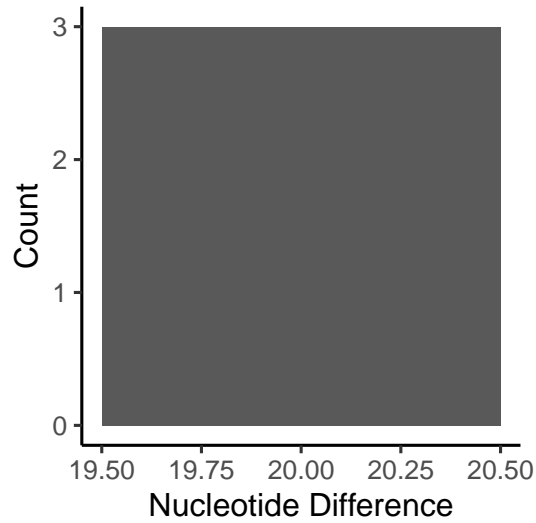
IGHV4–NL_22*01_S6977

70 sequences assigned
2 (2.9%) exact matches, in which:
2 unique CDR3
1 unique J



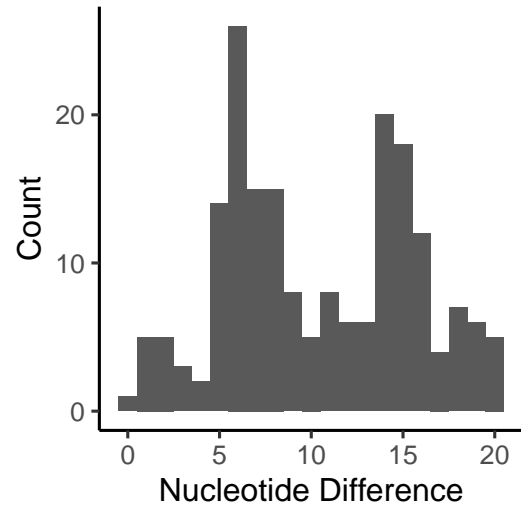
IGHV4–NL_27*01_S3198

16 sequences assigned
No exact matches.



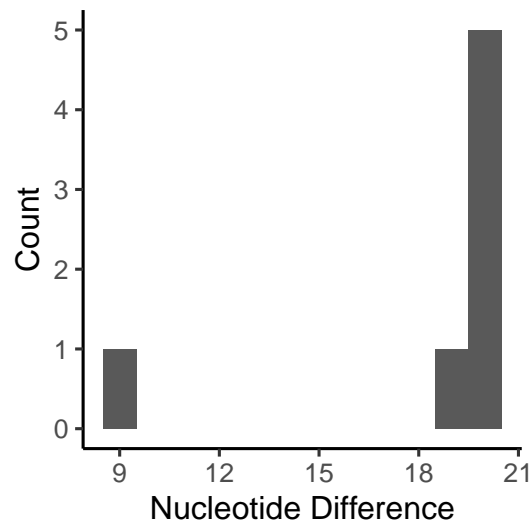
IGHV4–NL_36*01_S5847

205 sequences assigned
1 (0.5%) exact matches, in which:
1 unique CDR3
1 unique J



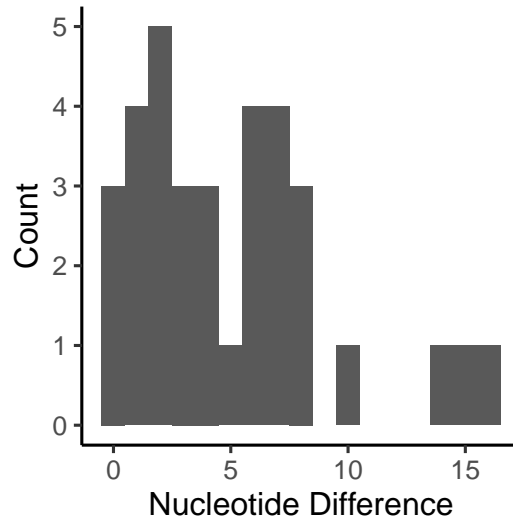
IGHV4–NL_26*01_S2261

24 sequences assigned
No exact matches.



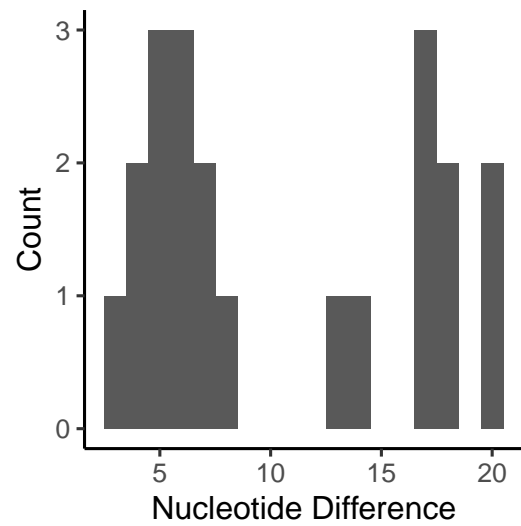
IGHV4–NL_27*01_S7150

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



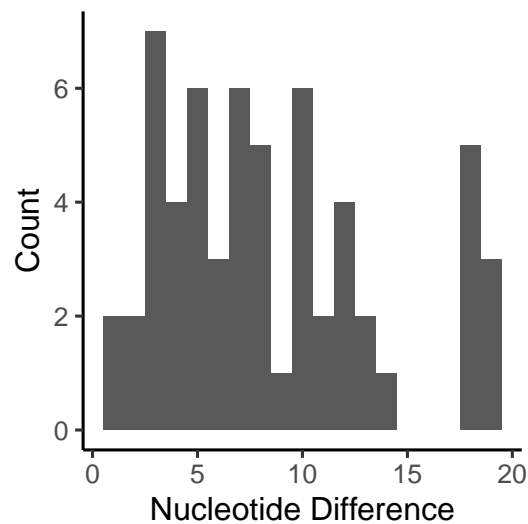
IGHV4–NL_38*01_S6954

38 sequences assigned
No exact matches.



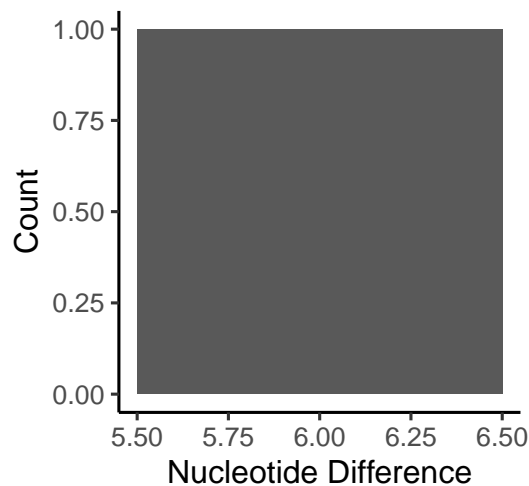
IGHV4–NL_27*01_S1458

74 sequences assigned
No exact matches.



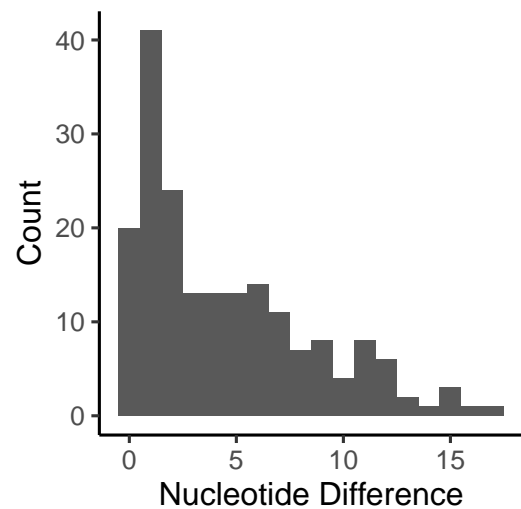
IGHV4–NL_3*01_S7576

1 sequences assigned
No exact matches.



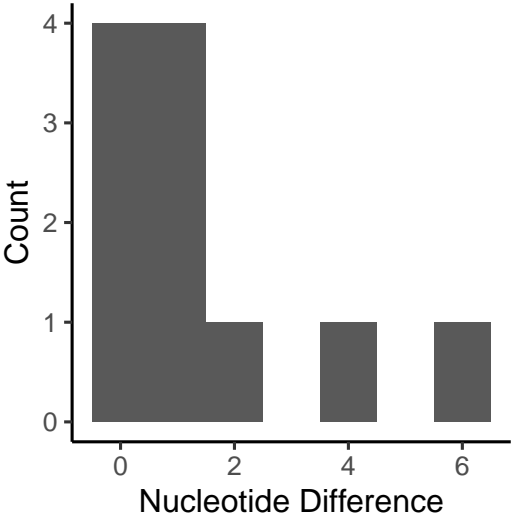
IGHV4–NL_38*01_S8437

251 sequences assigned
20 (8%) exact matches, in which:
10 unique CDR3
1 unique J



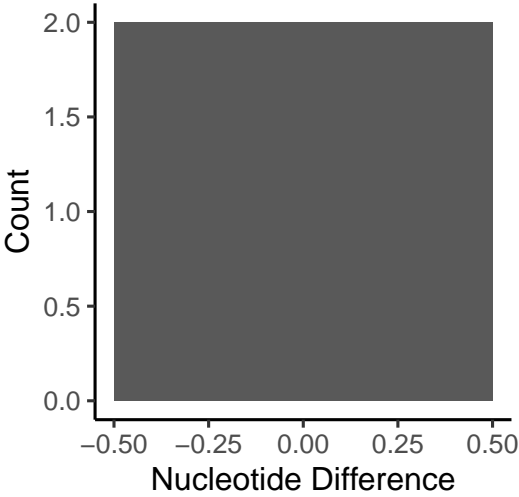
IGHV4–NL_5*01_S4603

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



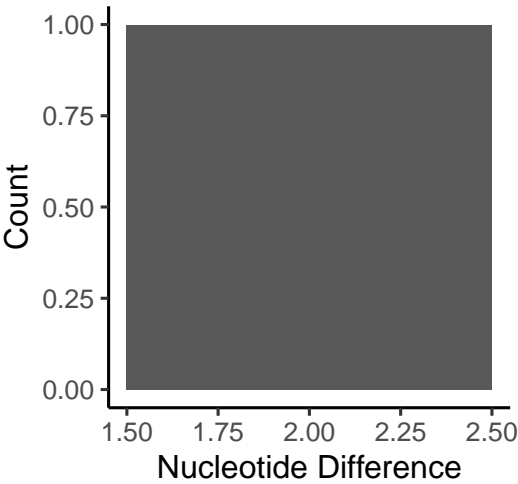
IGHV5–15*01_S4790

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



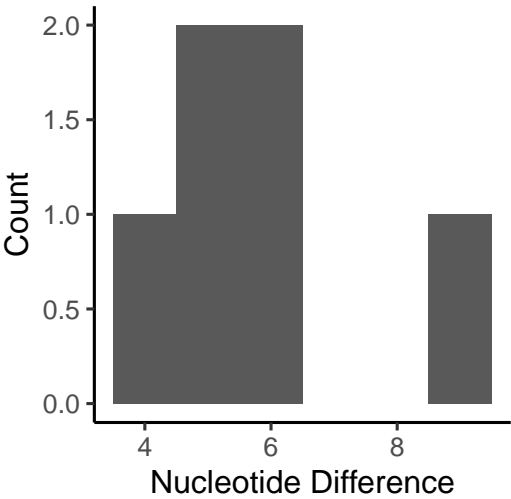
IGHV7–135*01_S4281

1 sequences assigned
No exact matches.



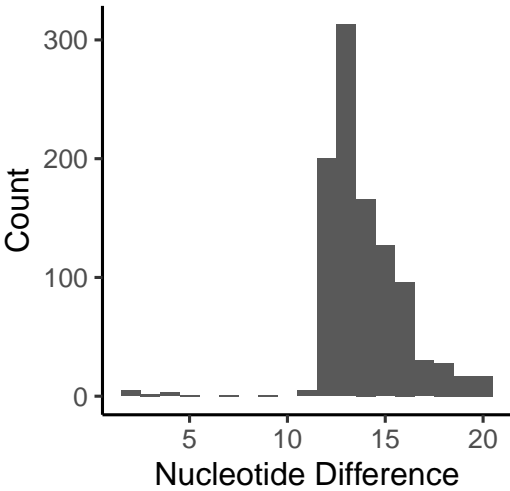
IGHV4–NL_5*01_S5158

6 sequences assigned
No exact matches.



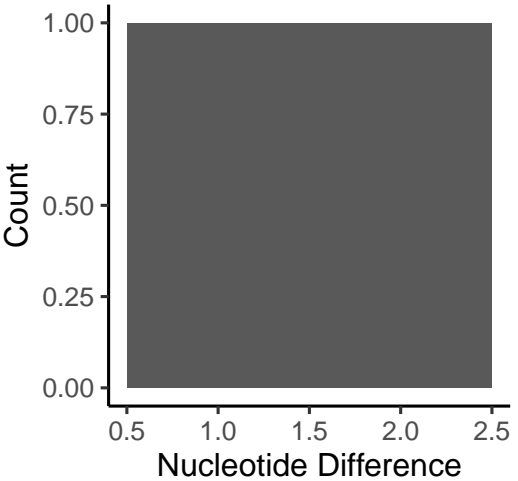
IGHV5–15*01_S5299

1228 sequences assigned
No exact matches.



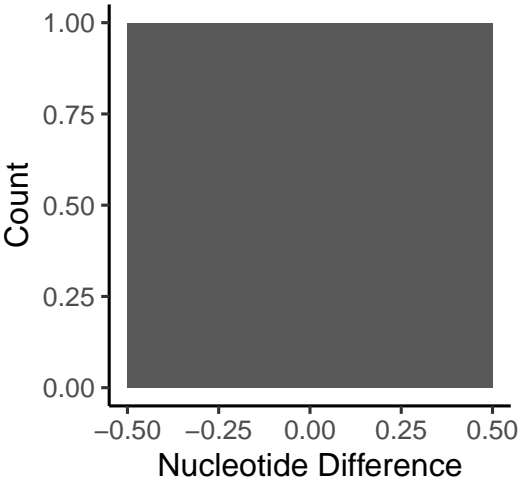
IGHV7–135*01_S9086

2 sequences assigned
No exact matches.



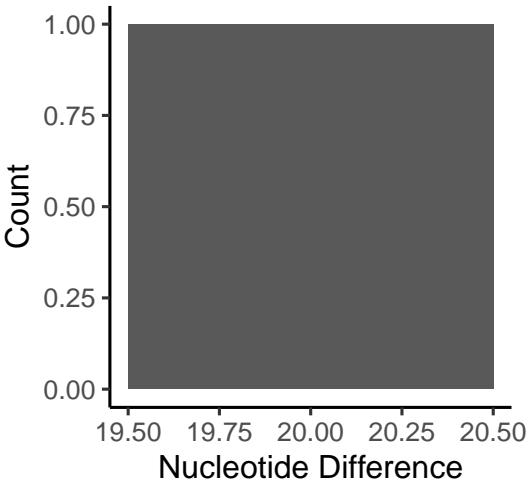
IGHV4–NL_9*01_S4906

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

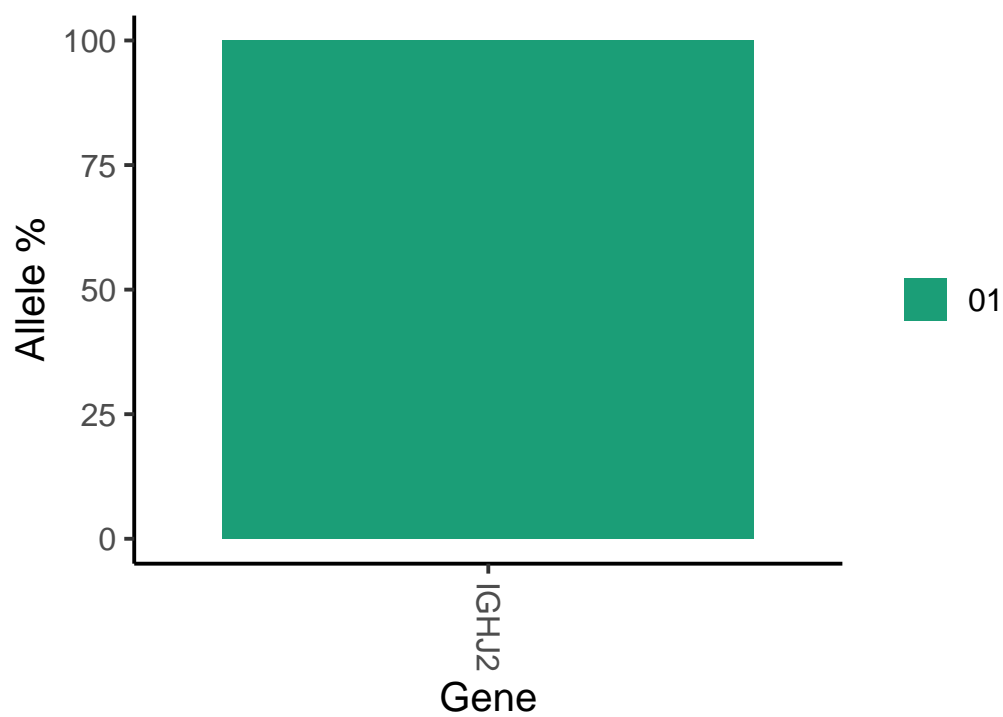


IGHV6–1*02_S1768

2 sequences assigned
No exact matches.



Allele Usage



Warning – no inferred sequences found.