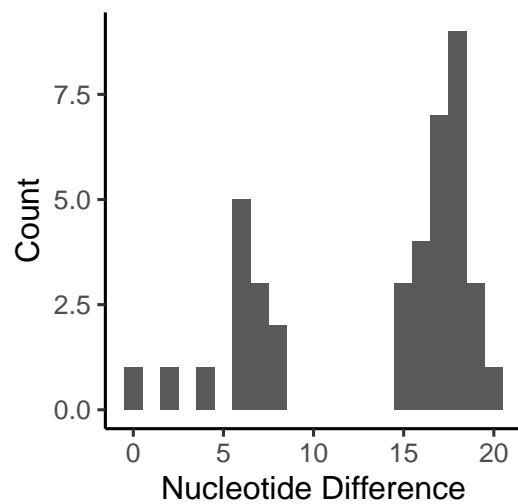


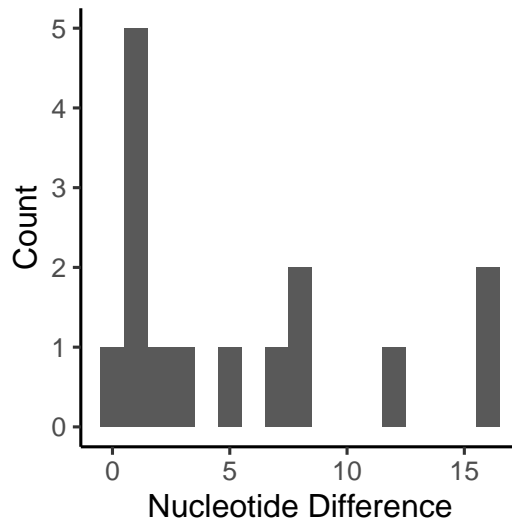
IGHV1-84*01_S4663

47 sequences assigned
1 (2.1%) exact matches, in which:
1 unique CDR3
1 unique J



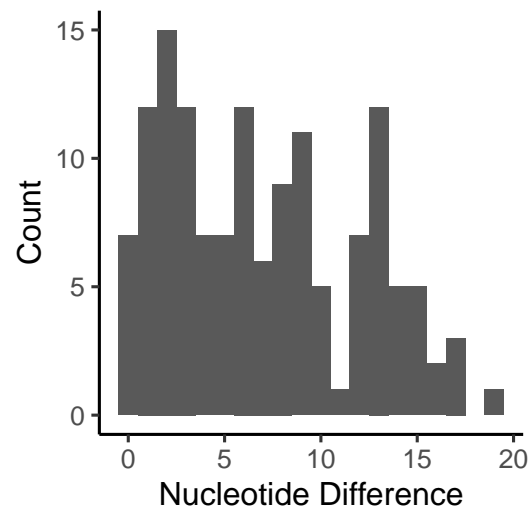
IGHV2-7*02_S1732

15 sequences assigned
1 (6.7%) exact matches, in which:
1 unique CDR3
1 unique J



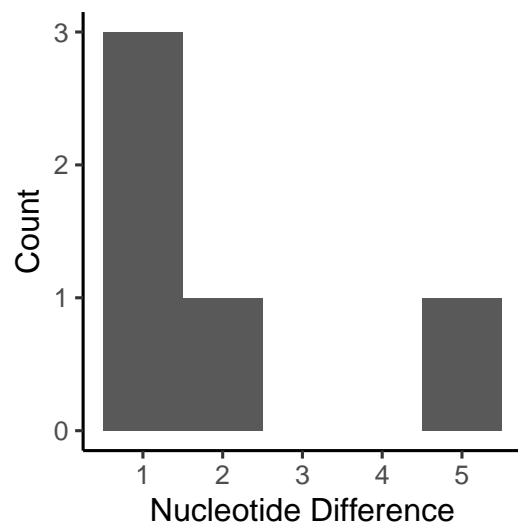
IGHV2-118*01_S3831

152 sequences assigned
7 (4.6%) exact matches, in which:
4 unique CDR3
1 unique J



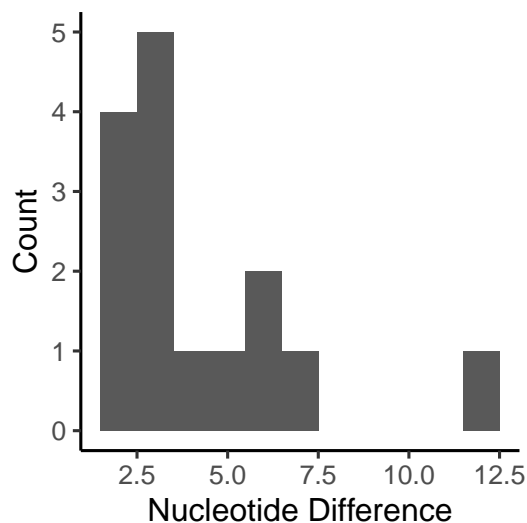
IGHV1-124*01_S6748

5 sequences assigned
No exact matches.



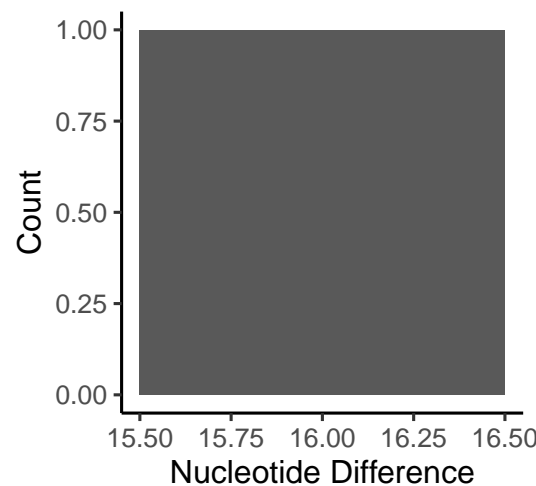
IGHV2-7*02_S4285

15 sequences assigned
No exact matches.



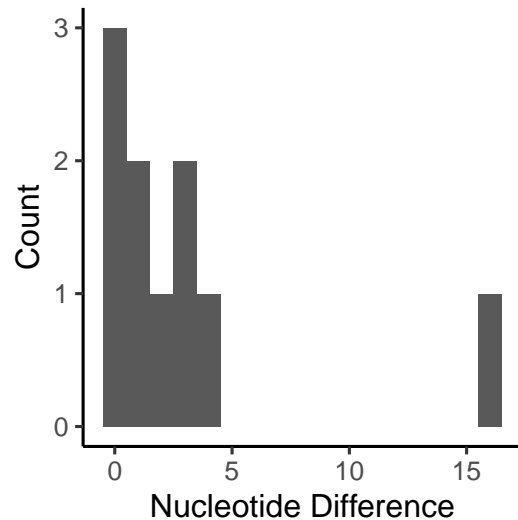
IGHV2-NL_1*01_S5431

1 sequences assigned
No exact matches.



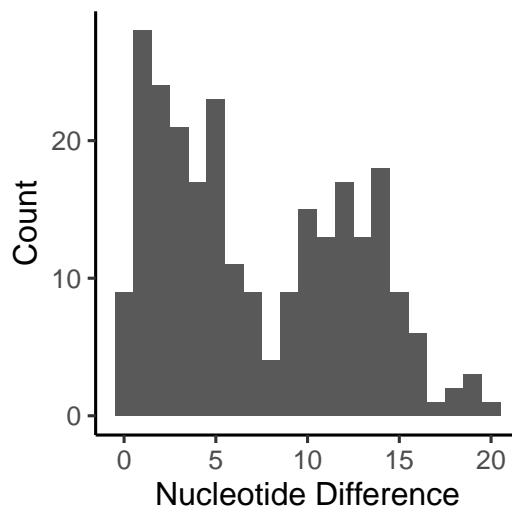
IGHV1-NL_2*01_S9896

35 sequences assigned
3 (8.6%) exact matches, in which:
1 unique CDR3
1 unique J



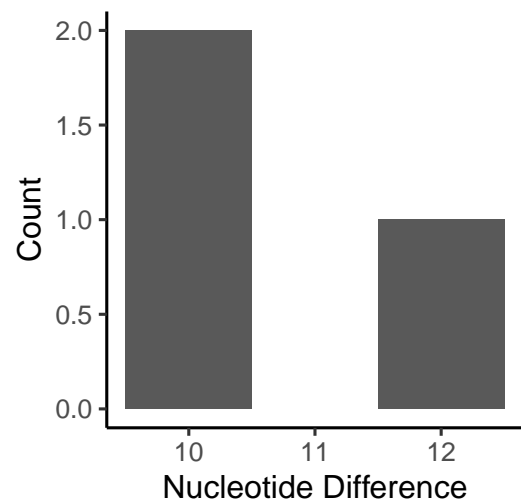
IGHV2-69*01_S2931

305 sequences assigned
9 (3%) exact matches, in which:
4 unique CDR3
1 unique J



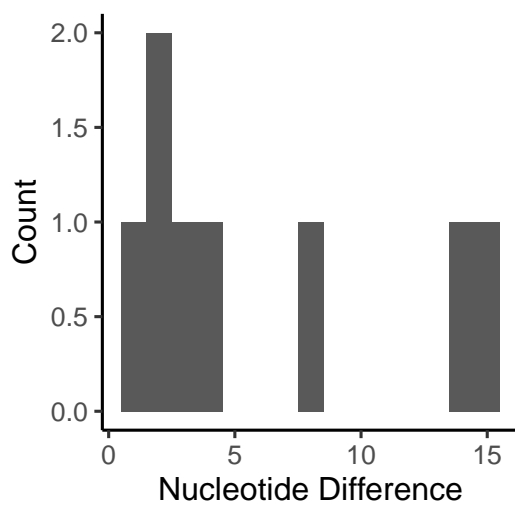
IGHV2-NL_2*01_S2193

3 sequences assigned
No exact matches.



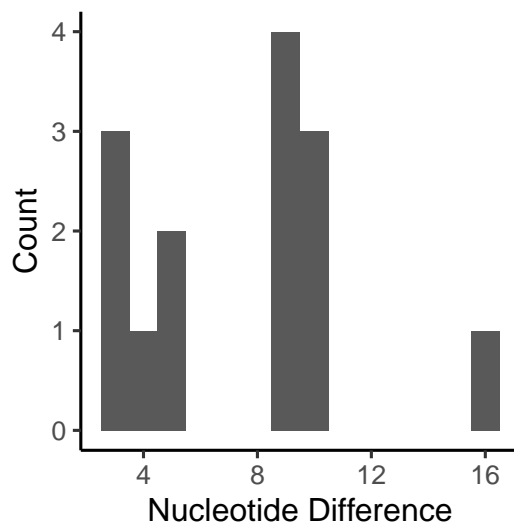
IGHV3-9*01_S4754

16 sequences assigned
No exact matches.



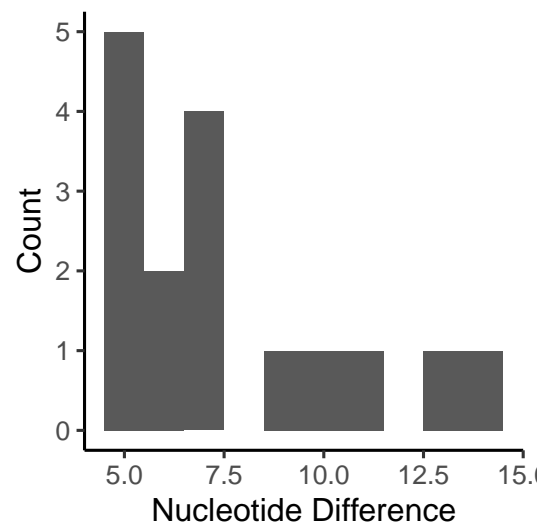
IGHV3-73*02_S4412

14 sequences assigned
No exact matches.



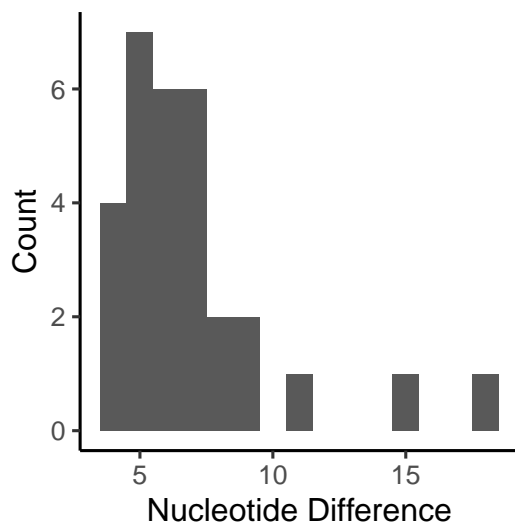
IGHV3-100*01_S4375

17 sequences assigned
No exact matches.



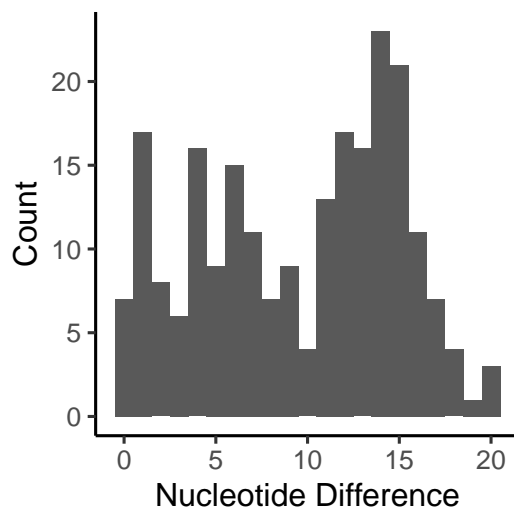
IGHV3-50*01_S5299

31 sequences assigned
No exact matches.



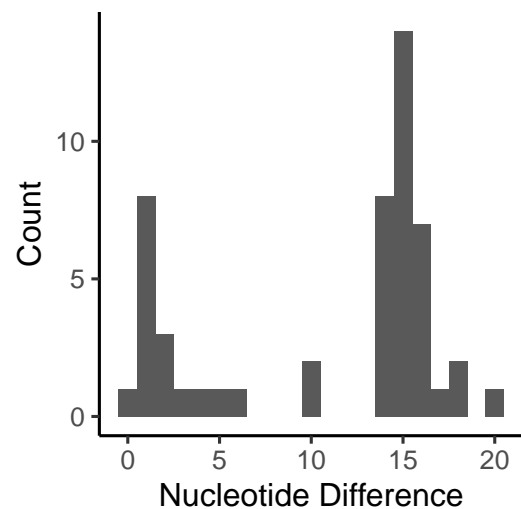
IGHV3-88*01_S6871

237 sequences assigned
7 (3%) exact matches, in which:
3 unique CDR3
1 unique J



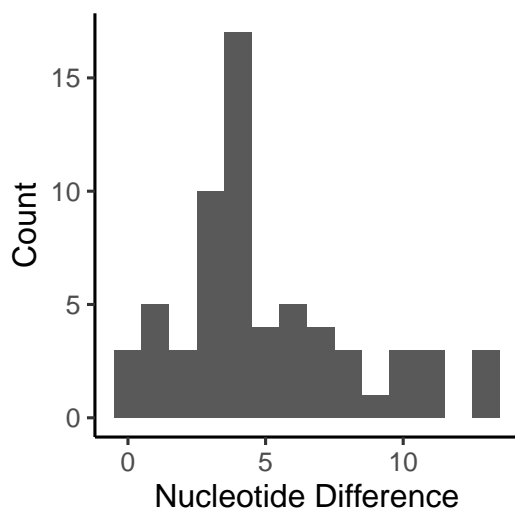
IGHV3-122*01_S6138

56 sequences assigned
1 (1.8%) exact matches, in which:
1 unique CDR3
1 unique J



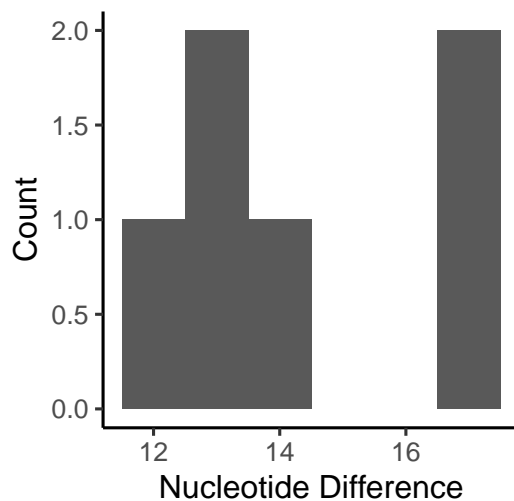
IGHV3-53*01_S1558

64 sequences assigned
3 (4.7%) exact matches, in which:
2 unique CDR3
1 unique J



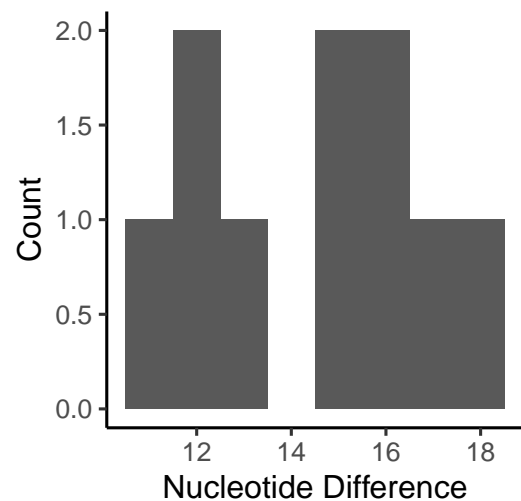
IGHV3-100*01_S4205

6 sequences assigned
No exact matches.



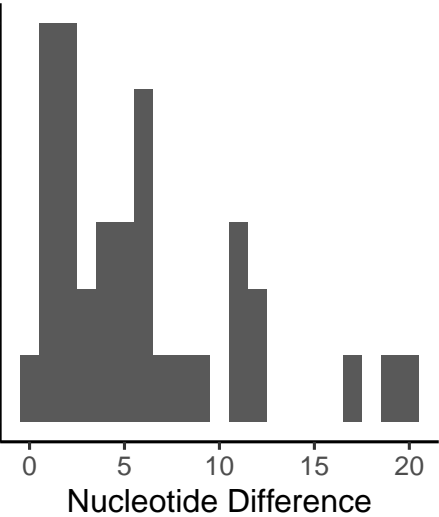
IGHV3-127*01_S1834

12 sequences assigned
No exact matches.



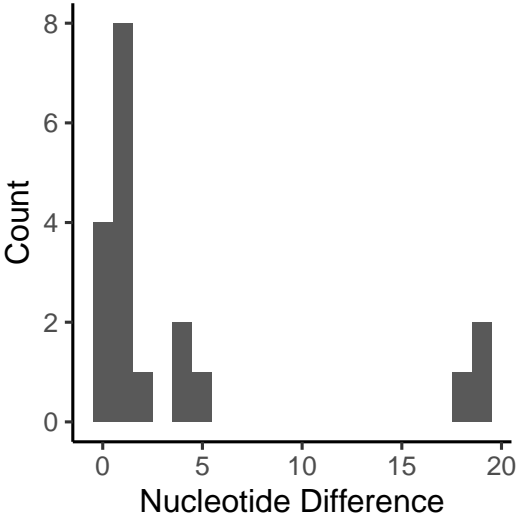
IGHV3-128*02_S0204

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



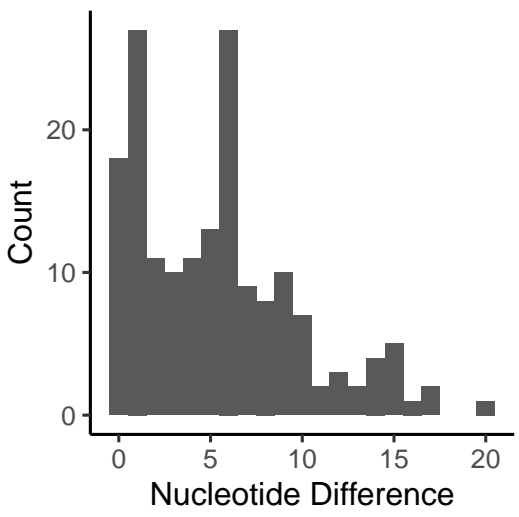
IGHV3-187*02_S6102

19 sequences assigned
4 (21.1%) exact matches, in which:
2 unique CDR3
1 unique J



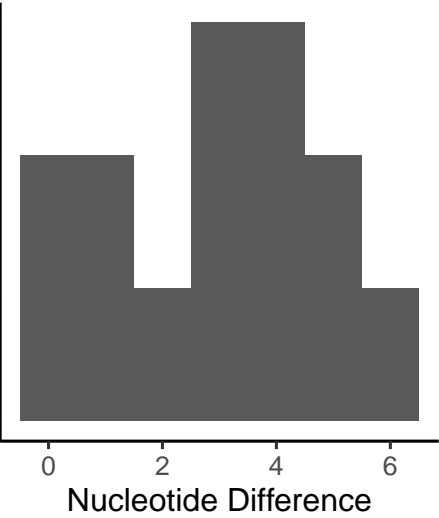
IGHV3-NL_11*01_S3736

189 sequences assigned
18 (9.5%) exact matches, in which:
11 unique CDR3
1 unique J



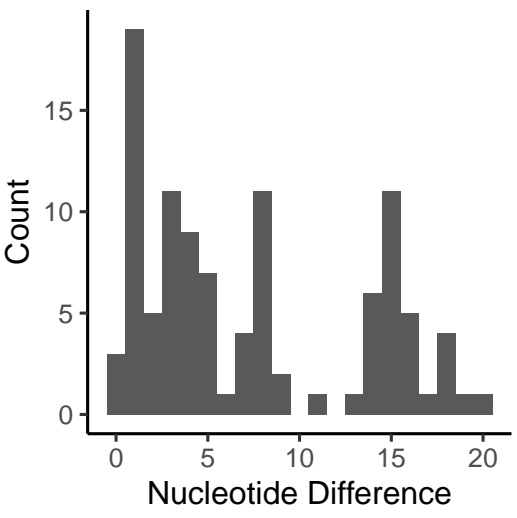
IGHV3-177*01_S5369

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



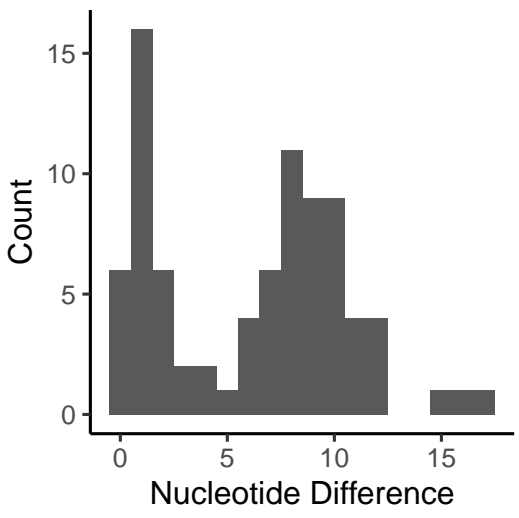
IGHV3-NL_1*01_S4331

115 sequences assigned
3 (2.6%) exact matches, in which:
3 unique CDR3
1 unique J



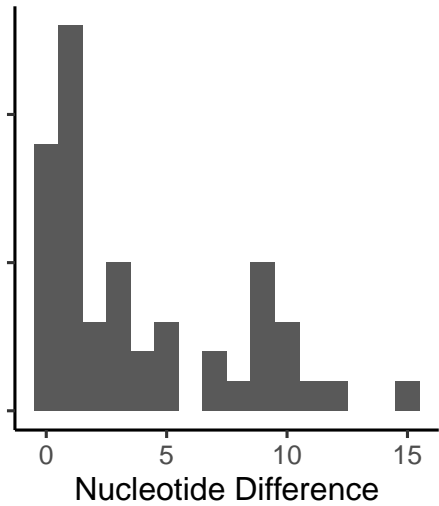
IGHV3-NL_11*01_S8390

83 sequences assigned
6 (7.2%) exact matches, in which:
2 unique CDR3
1 unique J



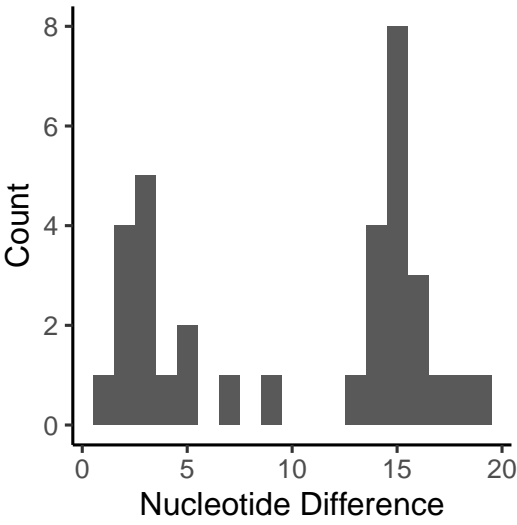
IGHV3-187*01_S8951

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



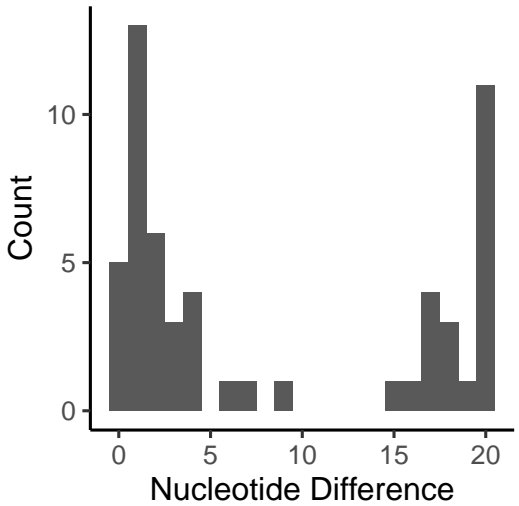
IGHV3-NL_1*01_S9422

35 sequences assigned
No exact matches.



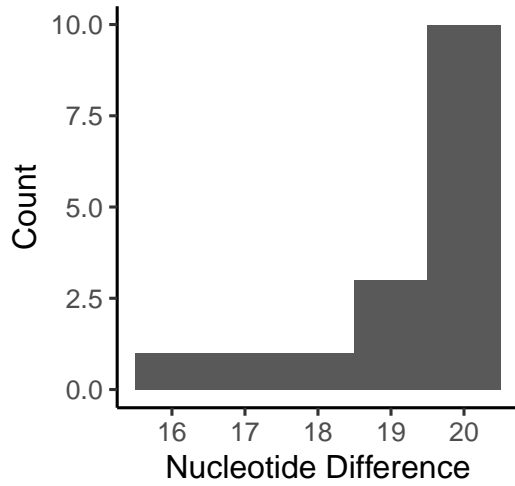
IGHV3-NL_11*02_S2668

200 sequences assigned
5 (2.5%) exact matches, in which:
3 unique CDR3
1 unique J



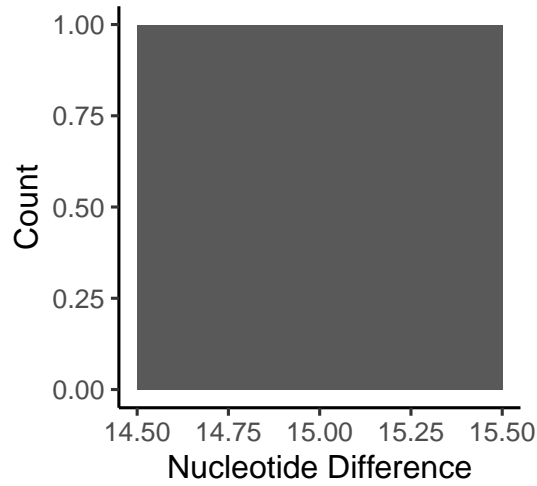
IGHV3–NL_14*01_S9303

25 sequences assigned
No exact matches.



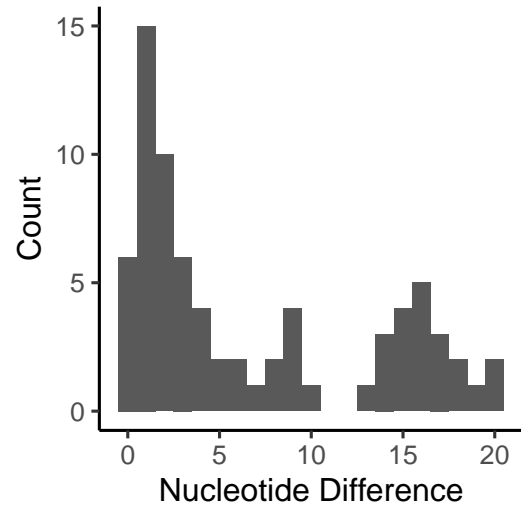
IGHV3–NL_4*01_S6405

1 sequences assigned
No exact matches.



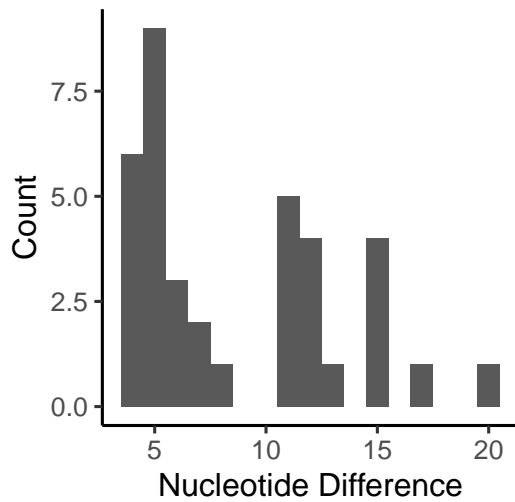
IGHV4–67*01_S8827

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



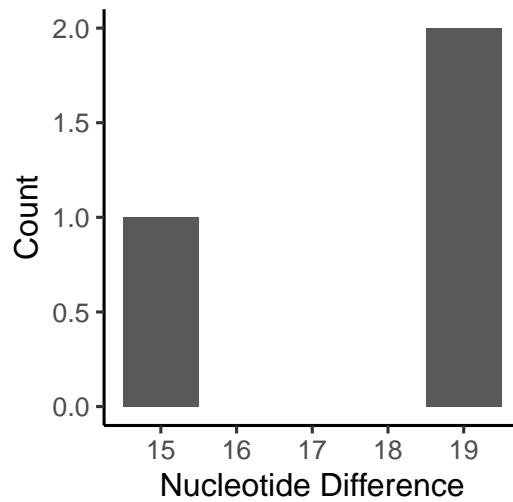
IGHV3–NL_17*01_S4736

40 sequences assigned
No exact matches.



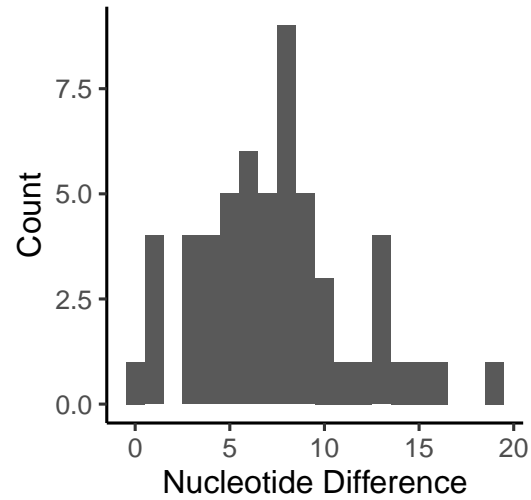
IGHV3–NL_4*01_S9067

3 sequences assigned
No exact matches.



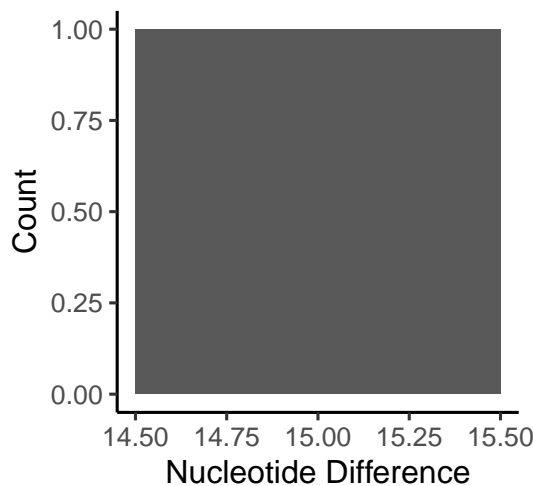
IGHV4–72*01_S8261

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



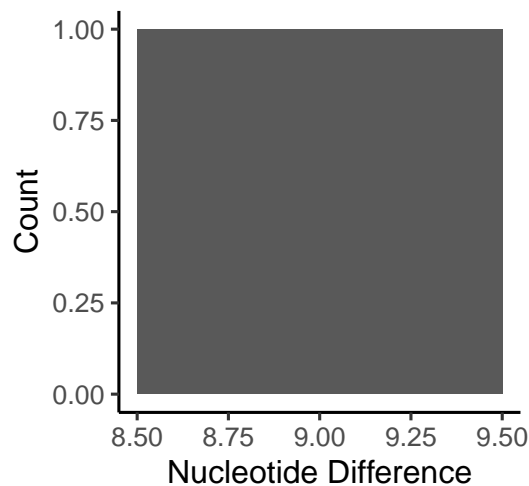
IGHV3–NL_4*01_S2727

1 sequences assigned
No exact matches.



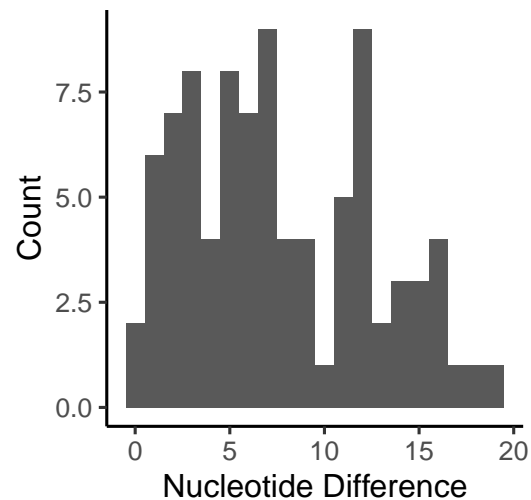
IGHV3–NL_4*01_S9635

1 sequences assigned
No exact matches.



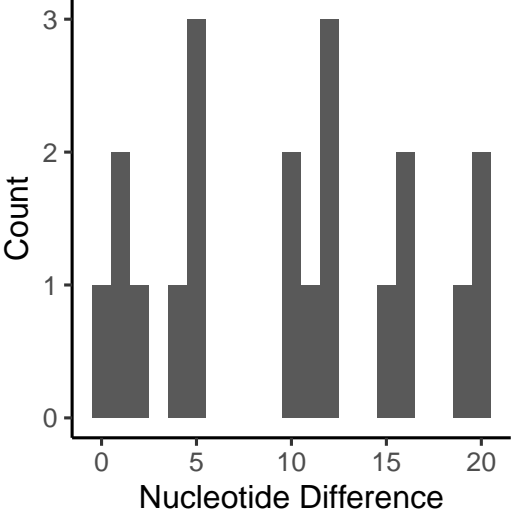
IGHV4–79*01_S1478

91 sequences assigned
2 (2.2%) exact matches, in which:
1 unique CDR3
1 unique J



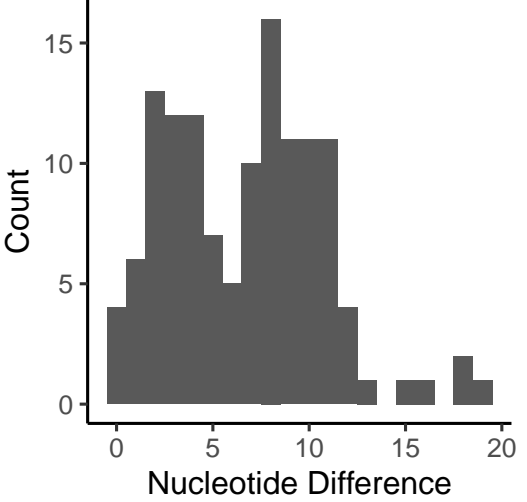
IGHV4-93*01_S0054

37 sequences assigned
1 (2.7%) exact matches, in which:
1 unique CDR3
1 unique J



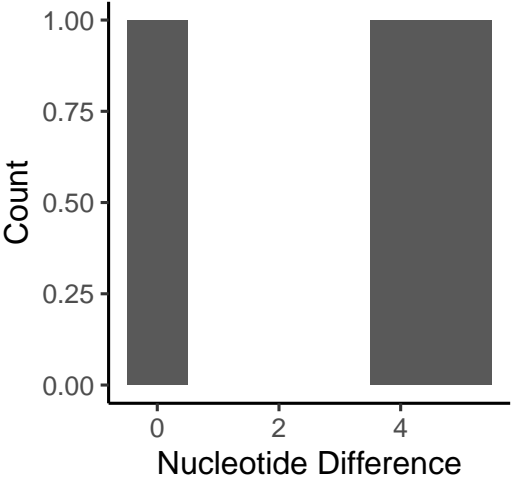
IGHV4-144*01_S5374

209 sequences assigned
4 (1.9%) exact matches, in which:
3 unique CDR3
1 unique J



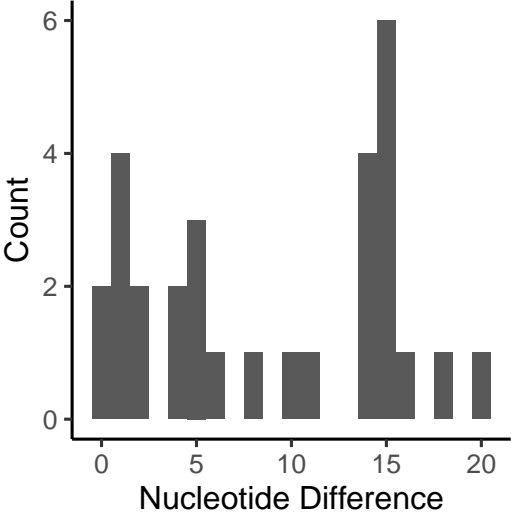
IGHV4-150*01_S9891

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



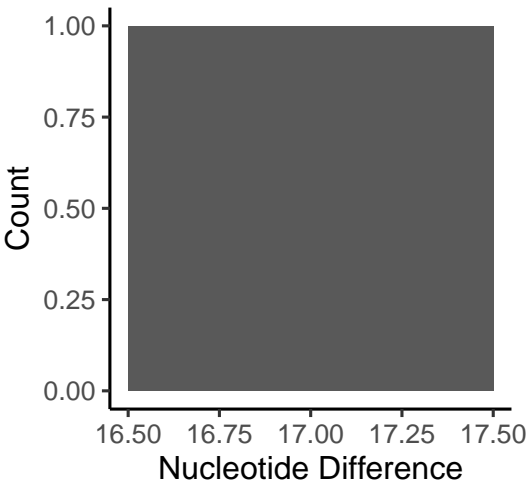
IGHV4-93*01_S8059

95 sequences assigned
2 (2.1%) exact matches, in which:
2 unique CDR3
1 unique J



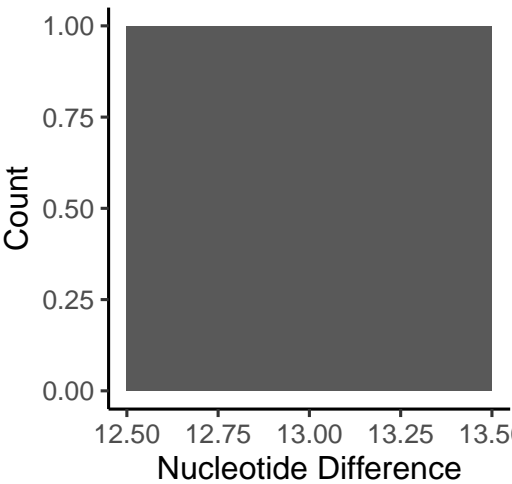
IGHV4-149*01_S0794

1 sequences assigned
No exact matches.



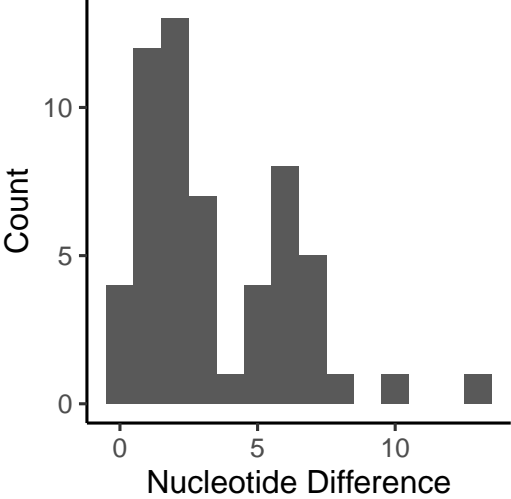
IGHV4-174*02_S3984

1 sequences assigned
No exact matches.



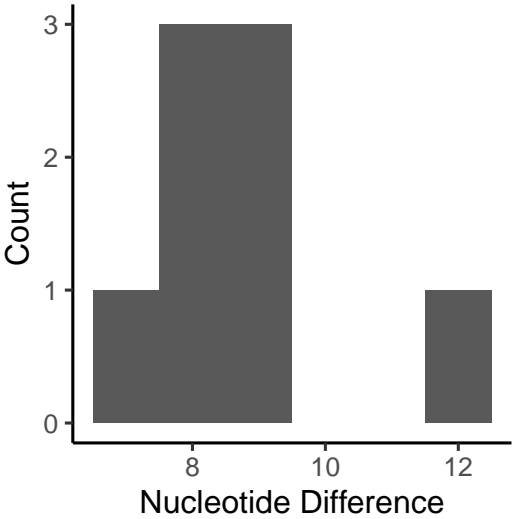
IGHV4-117*01_S4901

59 sequences assigned
4 (6.8%) exact matches, in which:
4 unique CDR3
1 unique J



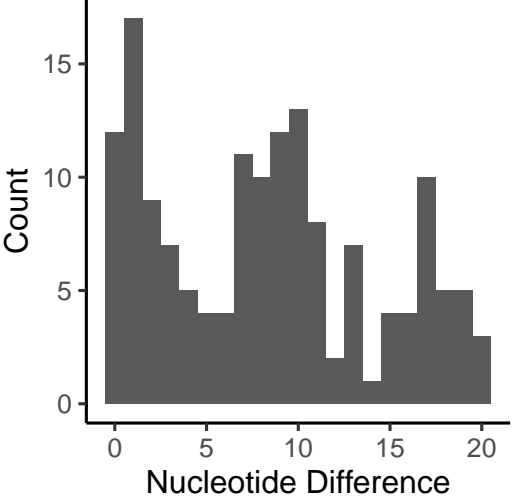
IGHV4-150*01_S8107

8 sequences assigned
No exact matches.



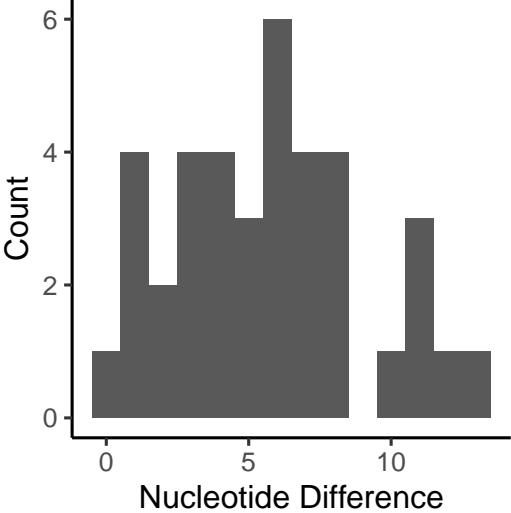
IGHV4-NL_1*01_S5917

163 sequences assigned
12 (7.4%) exact matches, in which:
10 unique CDR3
1 unique J



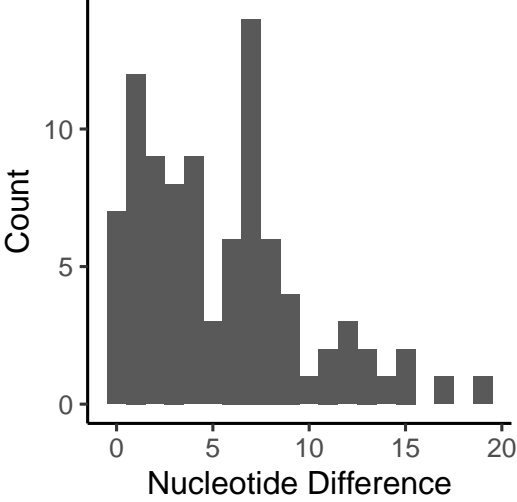
IGHV4–NL_15*01_S5717

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



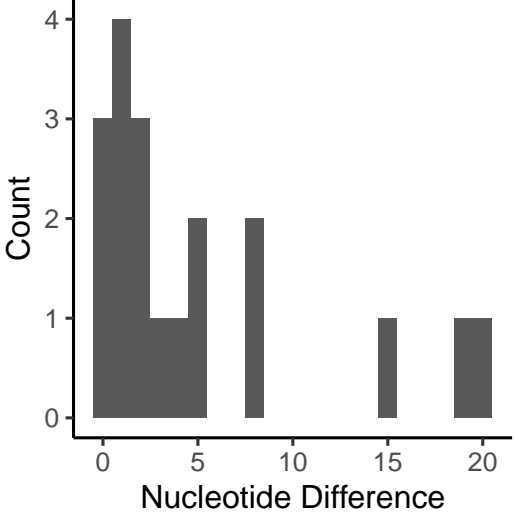
IGHV4–NL_21*01_S0138

98 sequences assigned
7 (7.1%) exact matches, in which:
5 unique CDR3
1 unique J



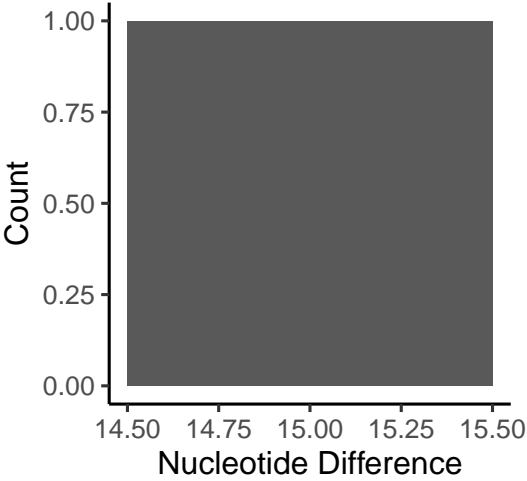
IGHV4–NL_24*01_S5697

19 sequences assigned
3 (15.8%) exact matches, in which:
3 unique CDR3
1 unique J



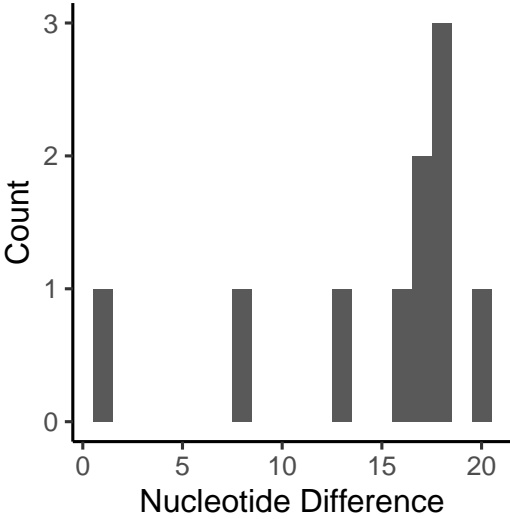
IGHV4–NL_17*01_S7355

1 sequences assigned
No exact matches.



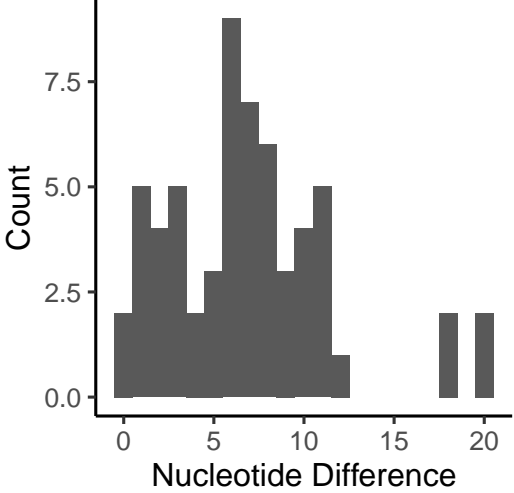
IGHV4–NL_21*01_S6308

14 sequences assigned
No exact matches.



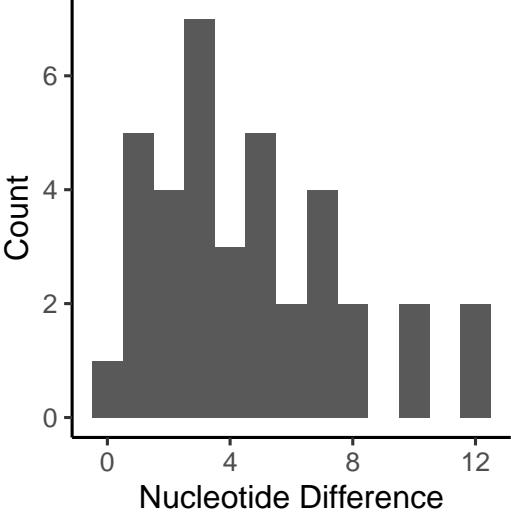
IGHV4–NL_25*01_S0581

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



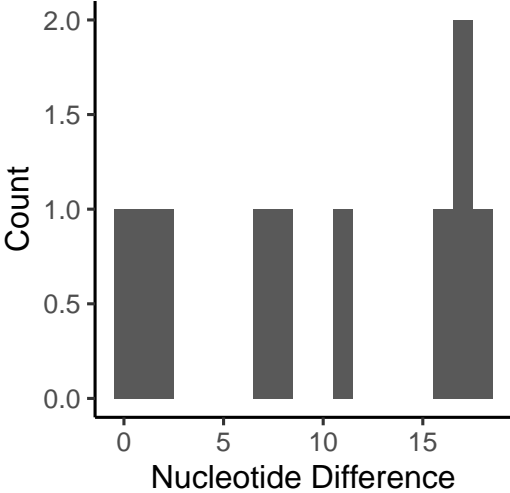
IGHV4–NL_20*01_S3862

37 sequences assigned
1 (2.7%) exact matches, in which:
1 unique CDR3
1 unique J



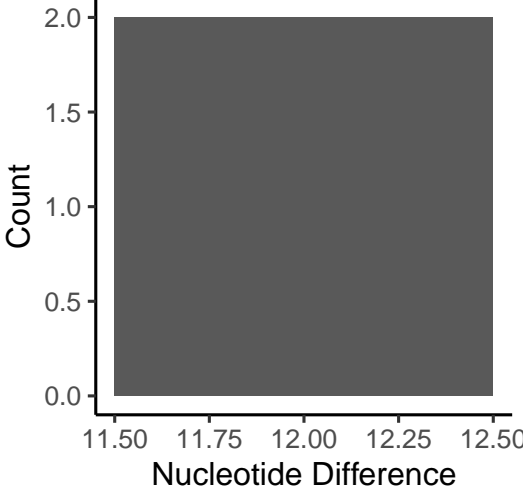
IGHV4–NL_24*01_S1628

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



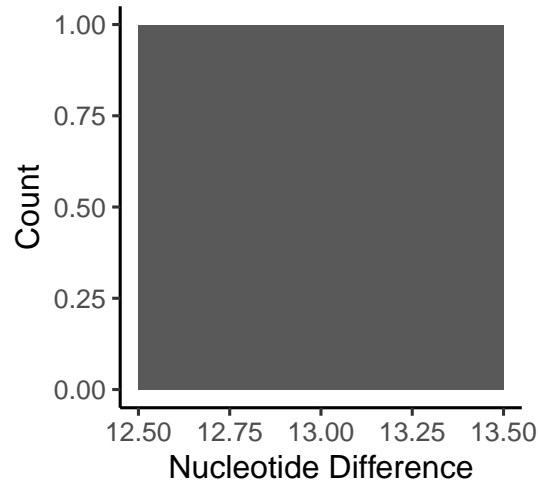
IGHV4–NL_26*01_S2261

2 sequences assigned
No exact matches.



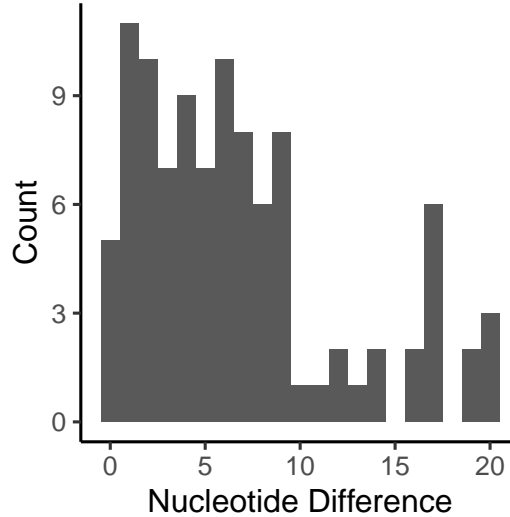
IGHV4-NL_27*01_S900

1 sequences assigned
No exact matches.



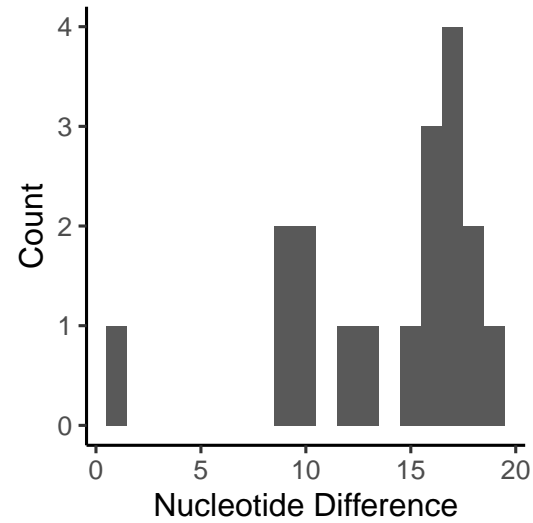
IGHV4-NL_33*01_S6730

115 sequences assigned
5 (4.3%) exact matches, in which:
4 unique CDR3
1 unique J



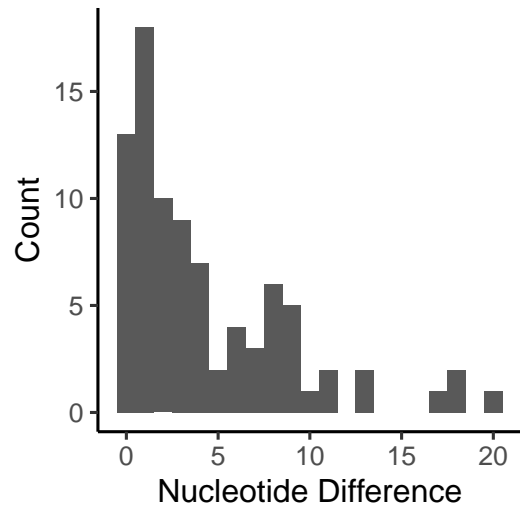
IGHV4-NL_38*01_S6954

18 sequences assigned
No exact matches.



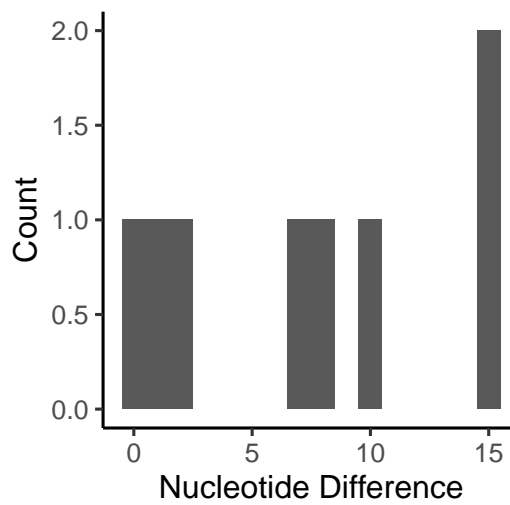
IGHV4-NL_31*01_S1675

86 sequences assigned
13 (15.1%) exact matches, in which:
8 unique CDR3
1 unique J



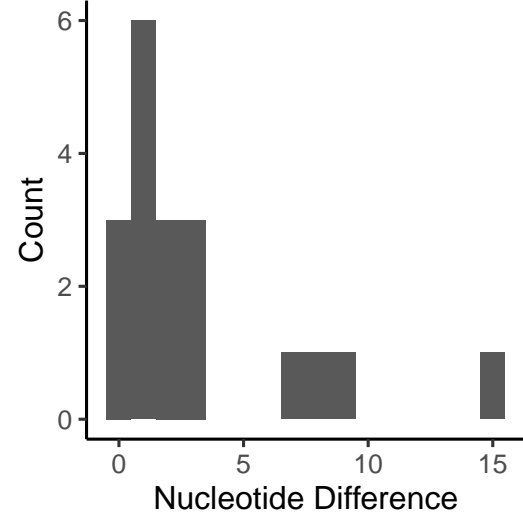
IGHV4-NL_36*01_S3780

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



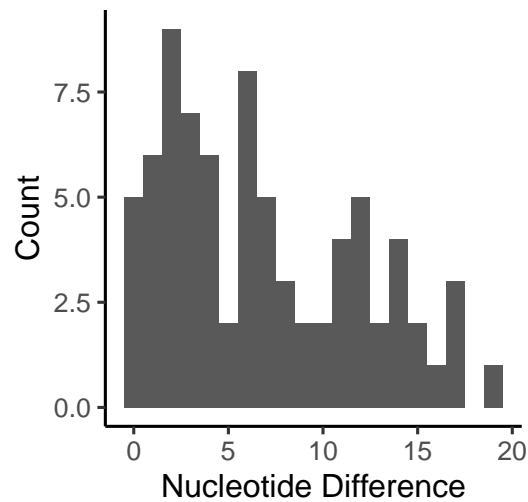
IGHV4-NL_5*01_S2528

19 sequences assigned
3 (15.8%) exact matches, in which:
3 unique CDR3
1 unique J



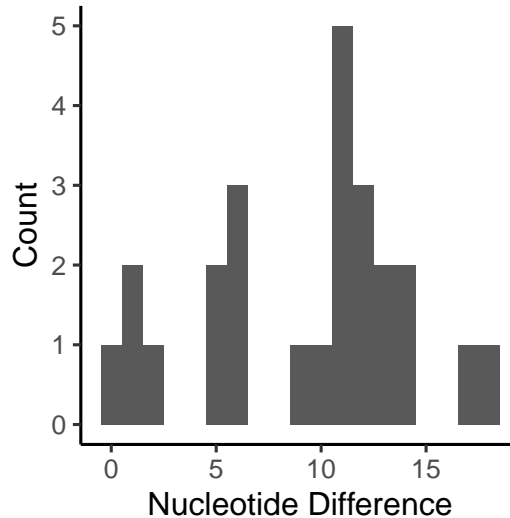
IGHV4-NL_31*01_S7693

85 sequences assigned
5 (5.9%) exact matches, in which:
4 unique CDR3
1 unique J



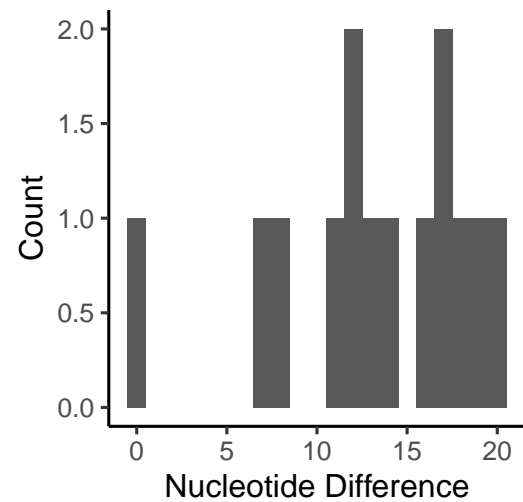
IGHV4-NL_38*01_S6639

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



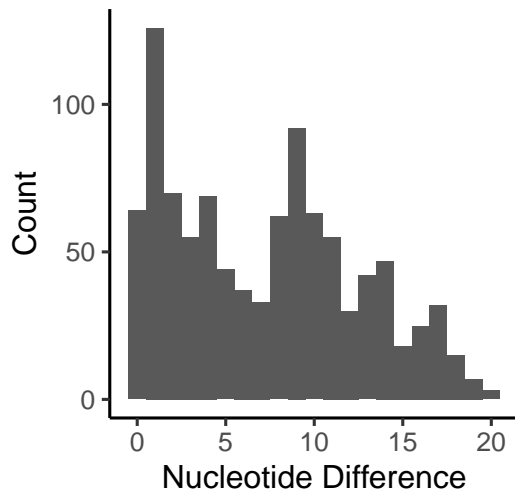
IGHV4-NL_5*01_S2634

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



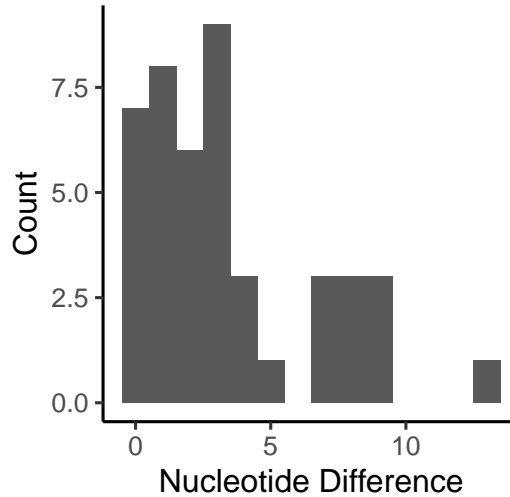
IGHV5–15*01_S8661

1014 sequences assigned
64 (6.3%) exact matches, in which:
42 unique CDR3
1 unique J



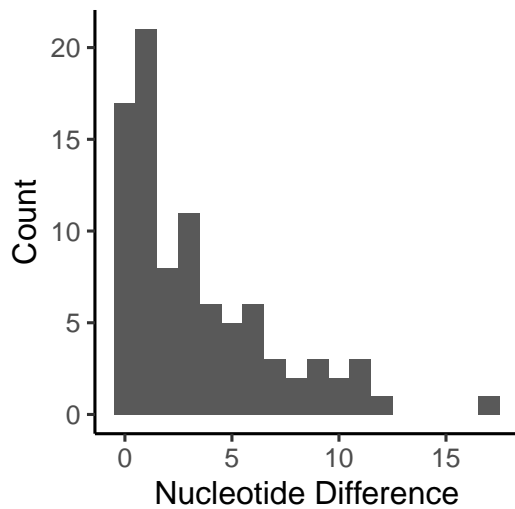
IGHV7–86*01_S4789

45 sequences assigned
7 (15.6%) exact matches, in which:
5 unique CDR3
1 unique J



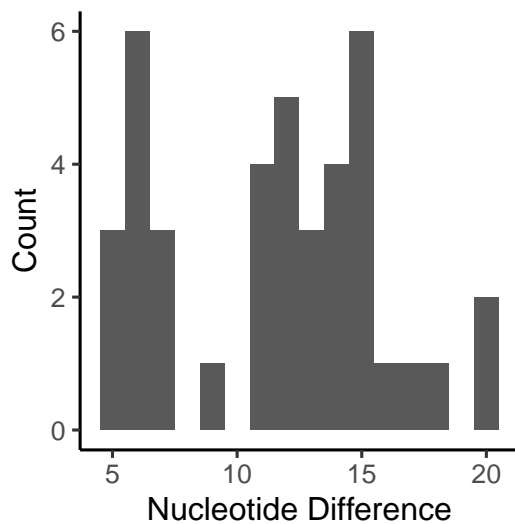
IGHV5–157*01_S5960

89 sequences assigned
17 (19.1%) exact matches, in which:
9 unique CDR3
1 unique J

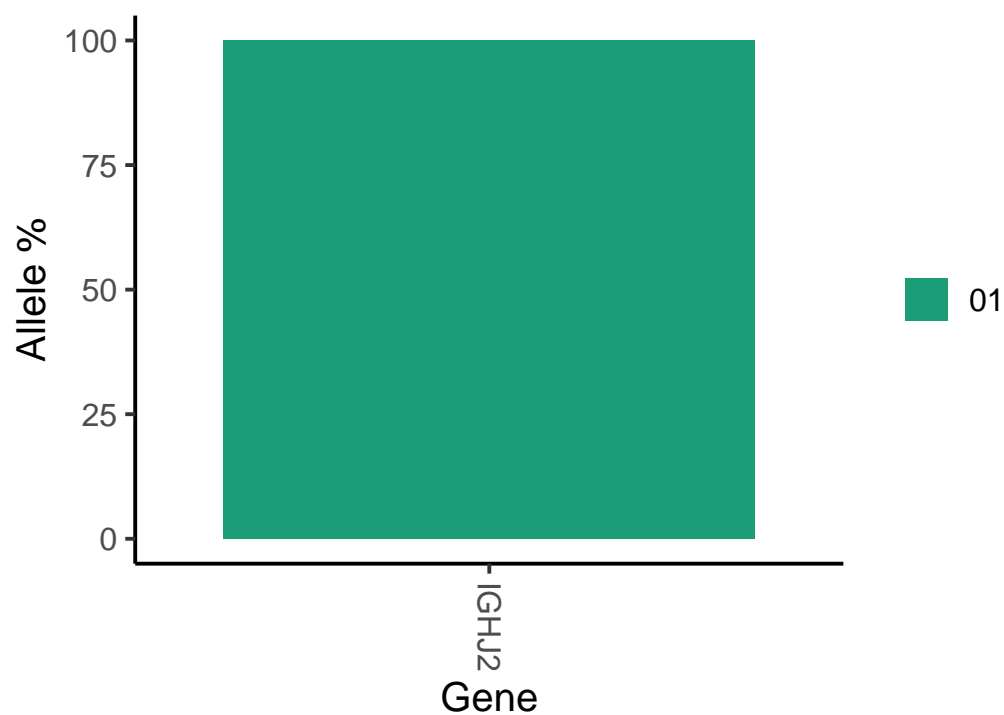


IGHV7–86*01_S2268

41 sequences assigned
No exact matches.



Allele Usage



Warning – no inferred sequences found.