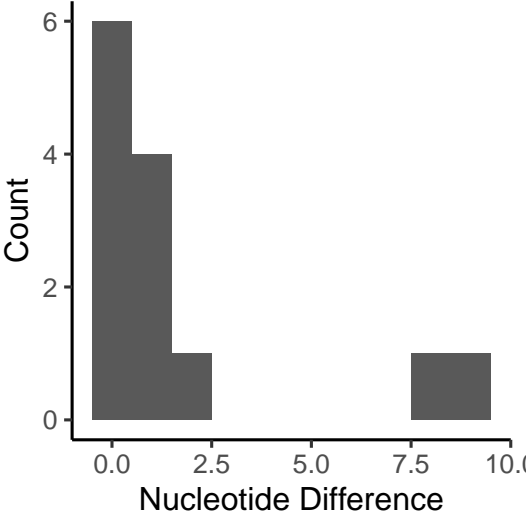


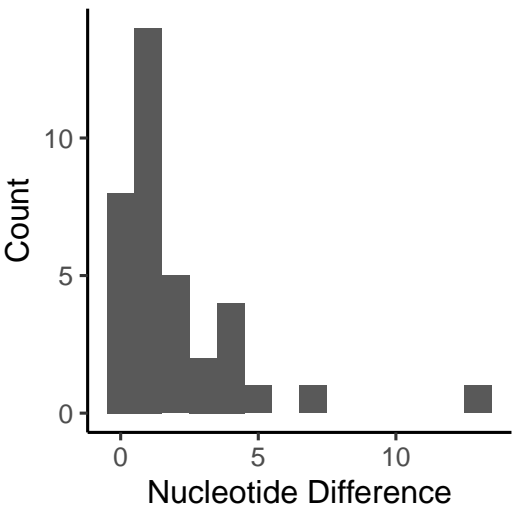
IGHV1-84*01_S9171

28 sequences assigned
6 (21.4%) exact matches, in which:
3 unique CDR3
1 unique J



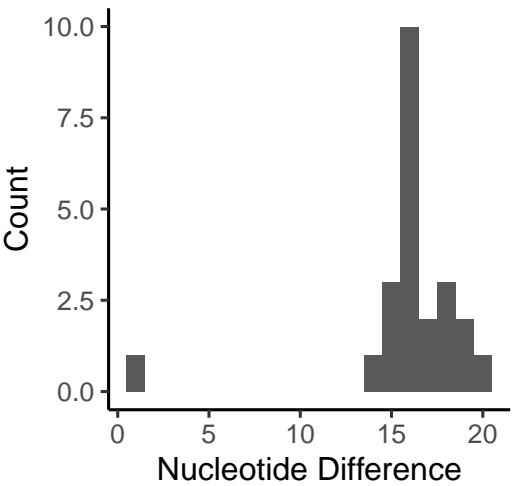
IGHV1-NL_1*01_S2052

36 sequences assigned
8 (22.2%) exact matches, in which:
7 unique CDR3
1 unique J



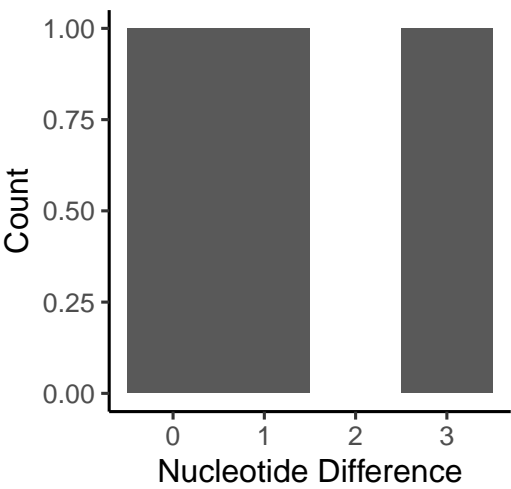
IGHV2-7*02_S4285

25 sequences assigned
No exact matches.



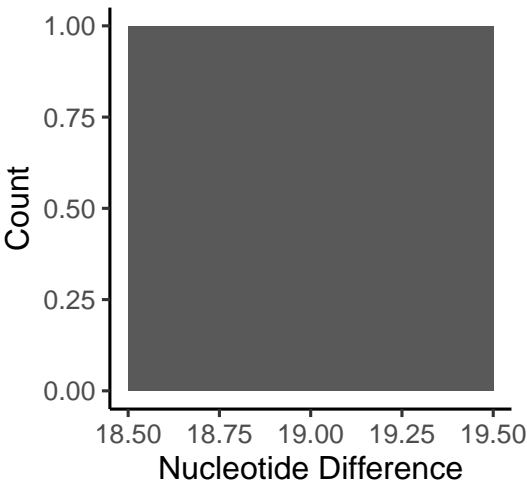
IGHV1-124*01_S7834

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



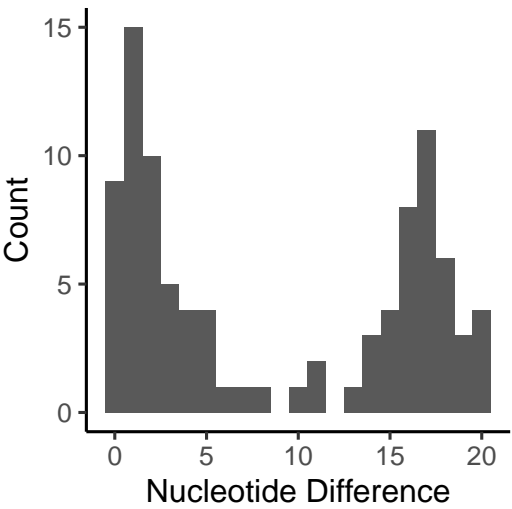
IGHV1-NL_2*01_S0023

4 sequences assigned
No exact matches.



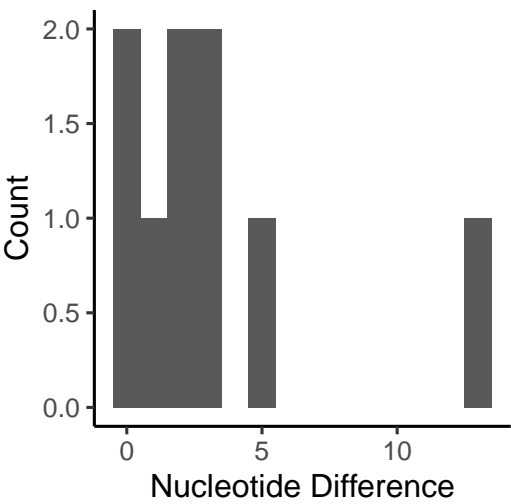
IGHV2-69*01_S6153

138 sequences assigned
9 (6.5%) exact matches, in which:
7 unique CDR3
1 unique J



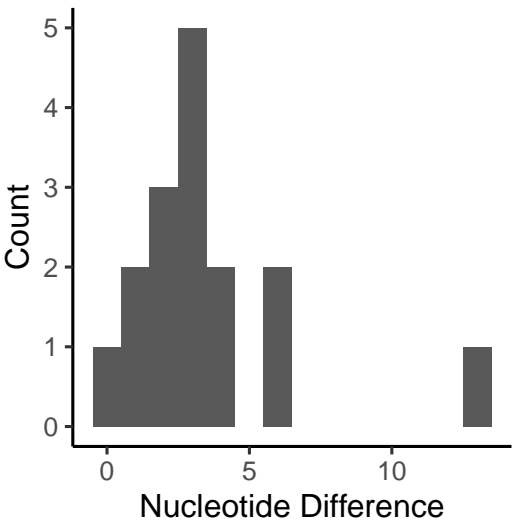
IGHV1-138*01_S2054

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



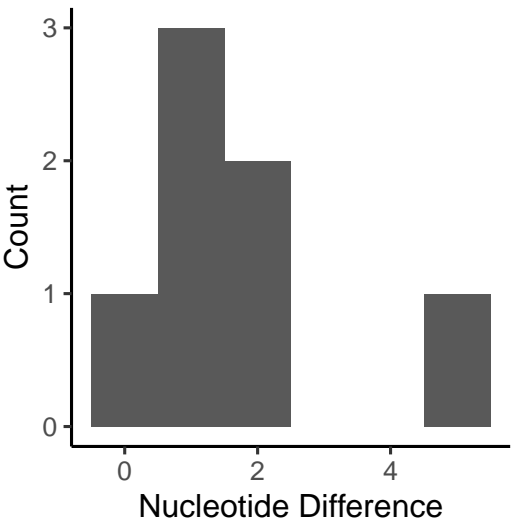
IGHV2-7*02_S1732

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



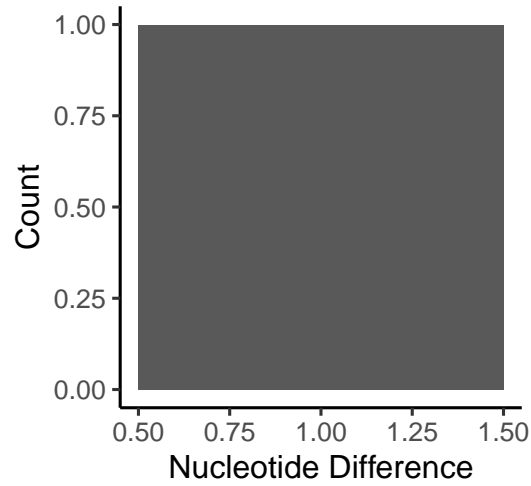
IGHV2-NL_1*01_S5211

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



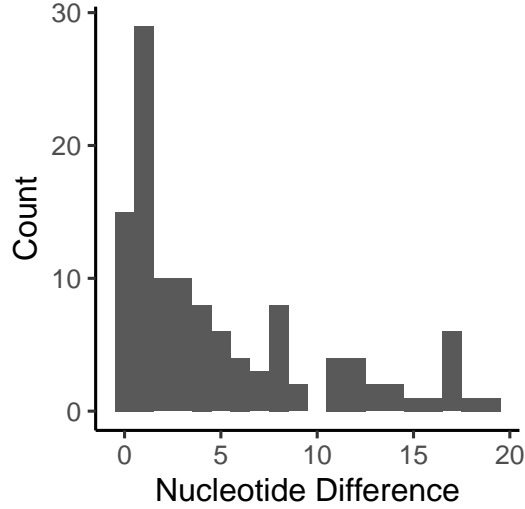
IGHV3-52*01_S8160

1 sequences assigned
No exact matches.



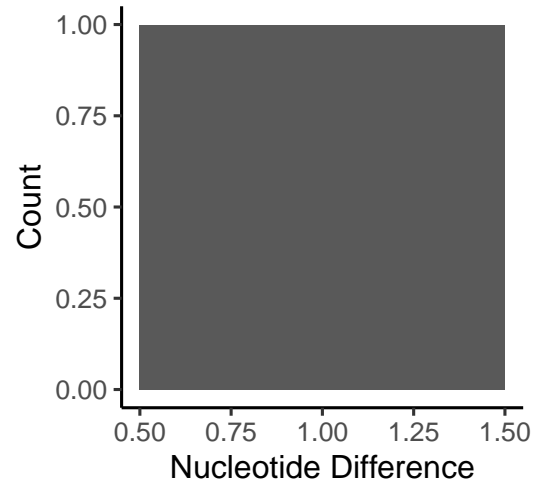
IGHV3-76*02_S4190

121 sequences assigned
15 (12.4%) exact matches, in which:
12 unique CDR3
1 unique J



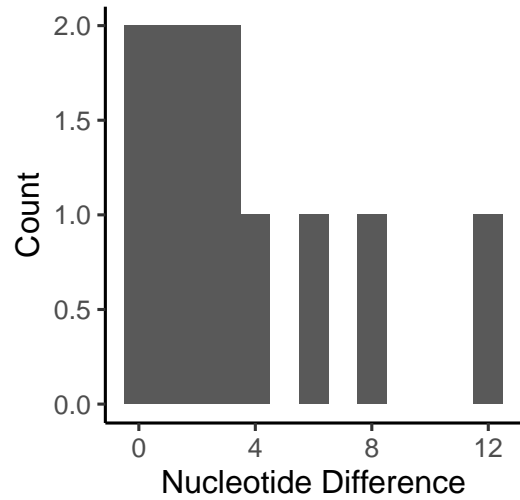
IGHV3-122*01_S2730

8 sequences assigned
No exact matches.



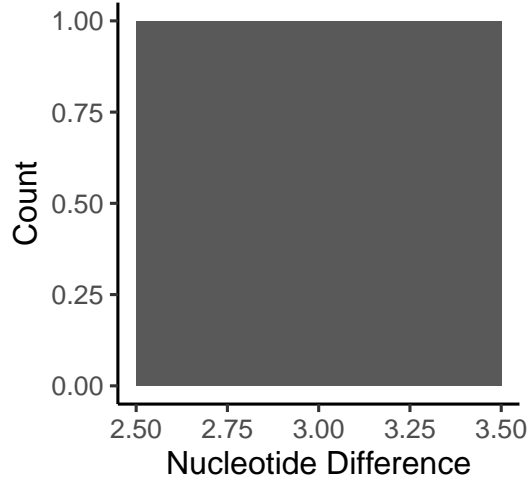
IGHV3-53*01_S4256

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



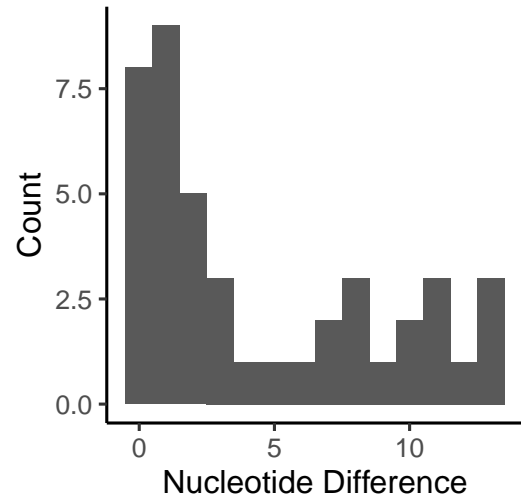
IGHV3-88*02_S9033

1 sequences assigned
No exact matches.



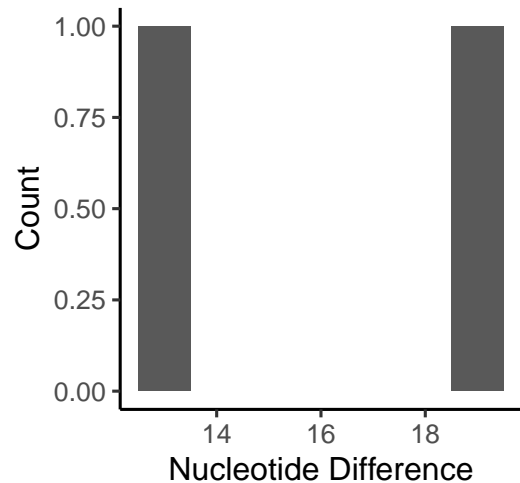
IGHV3-122*01_S5299

43 sequences assigned
8 (18.6%) exact matches, in which:
5 unique CDR3
1 unique J



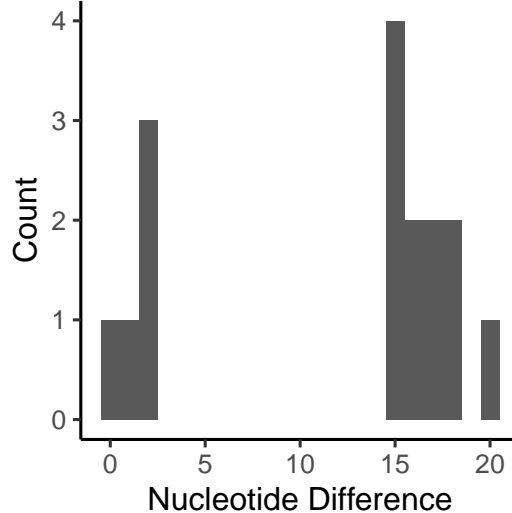
IGHV3-53*01_S5688

2 sequences assigned
No exact matches.



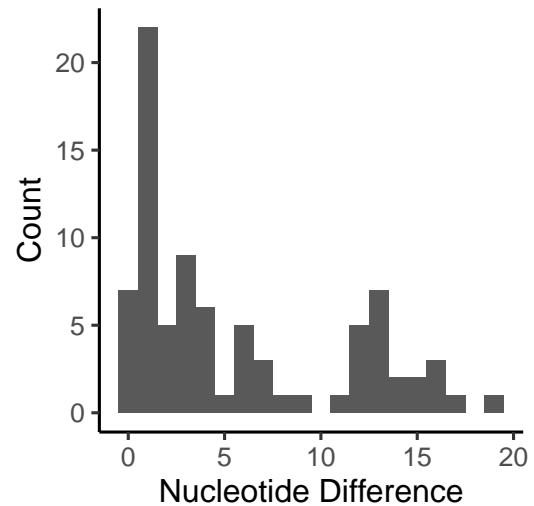
IGHV3-100*01_S4375

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



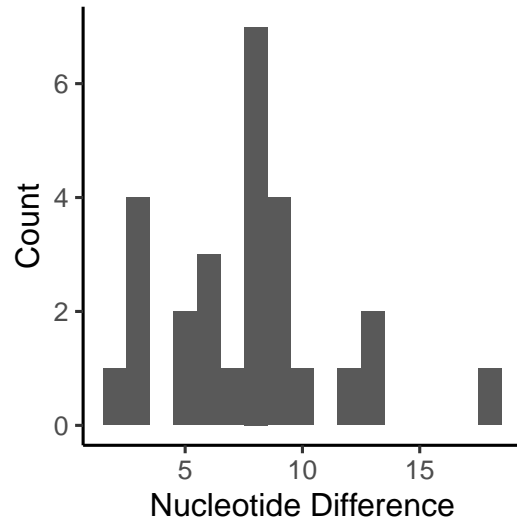
IGHV3-127*01_S5510

84 sequences assigned
7 (8.3%) exact matches, in which:
6 unique CDR3
1 unique J



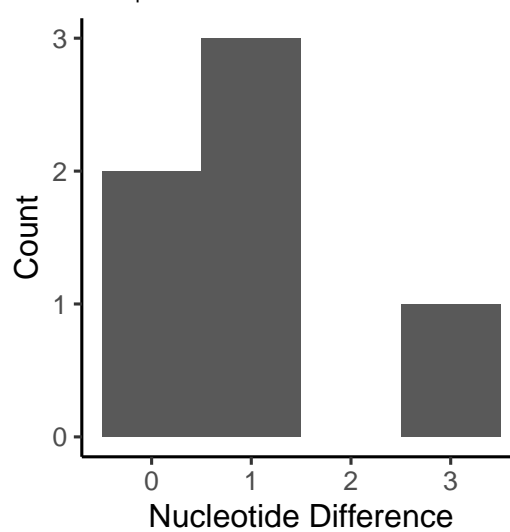
IGHV3-128*02_S0204

28 sequences assigned
No exact matches.



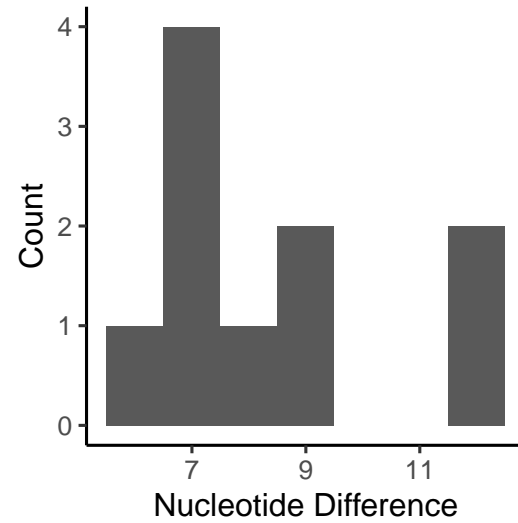
IGHV3-172*01_S2175

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



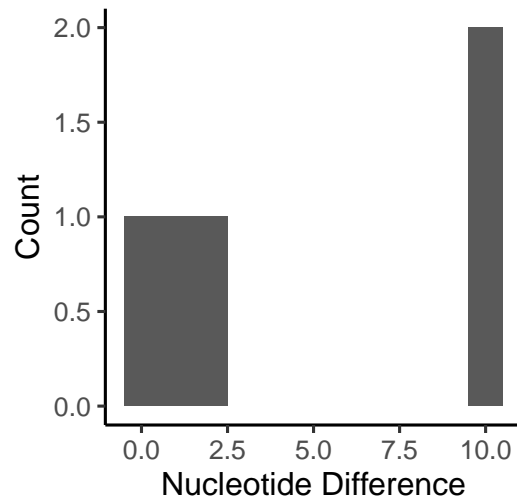
IGHV3-177*01_S6408

10 sequences assigned
No exact matches.



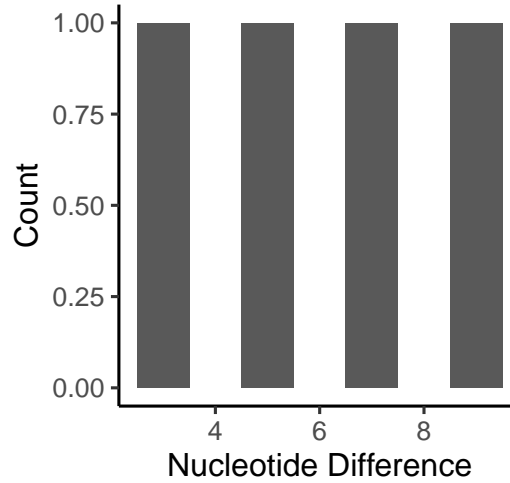
IGHV3-152*01_S5891

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



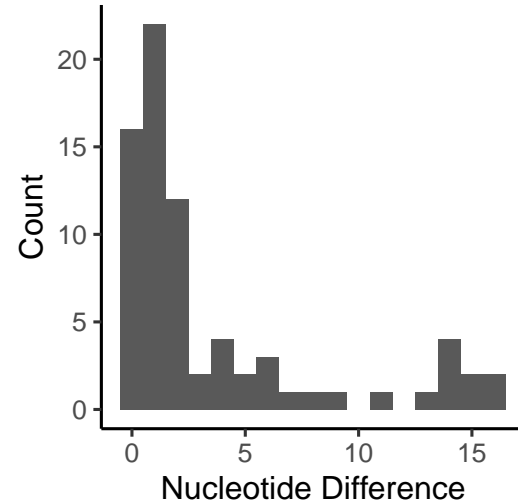
IGHV3-175*01_S1614

4 sequences assigned
No exact matches.



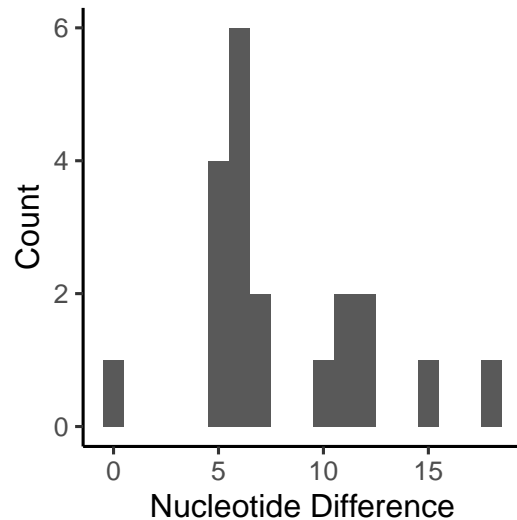
IGHV3-NL_1*01_S1080

77 sequences assigned
16 (20.8%) exact matches, in which:
13 unique CDR3
1 unique J



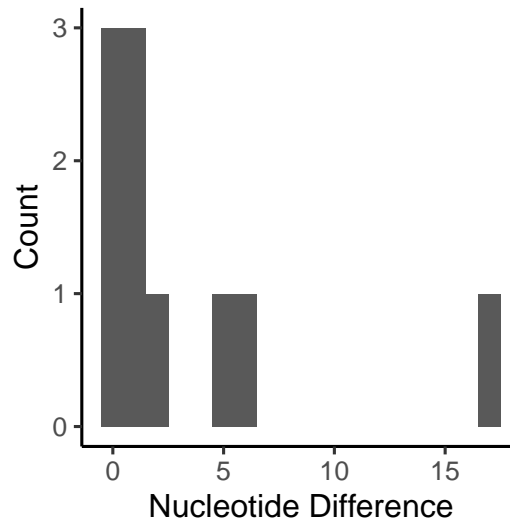
IGHV3-172*01_S1597

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



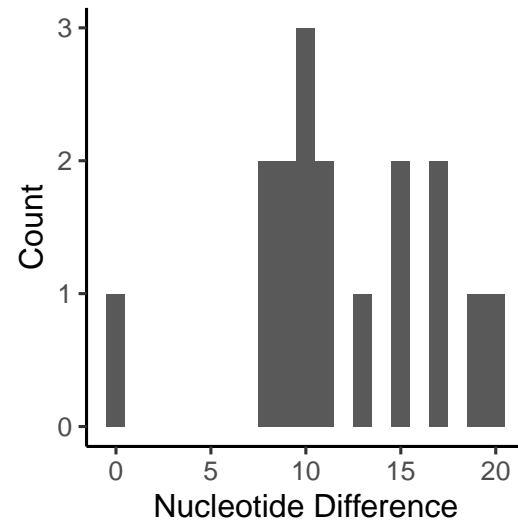
IGHV3-177*01_S5369

10 sequences assigned
3 (30%) exact matches, in which:
2 unique CDR3
1 unique J



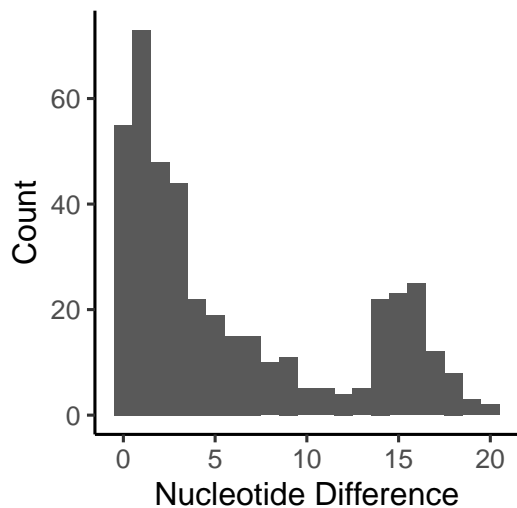
IGHV3-NL_1*01_S9854

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



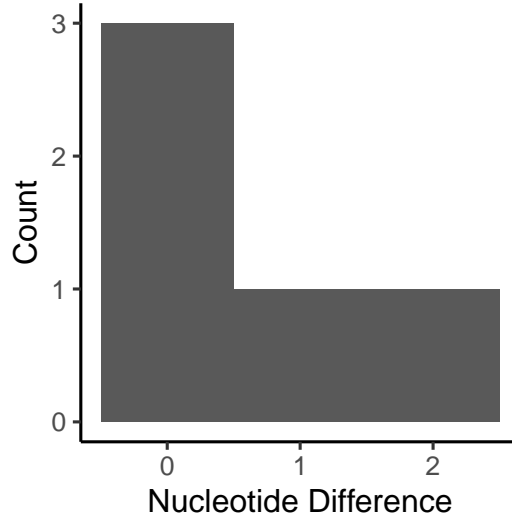
IGHV3–NL_11*01_S6390

445 sequences assigned
55 (12.4%) exact matches, in which:
44 unique CDR3
1 unique J



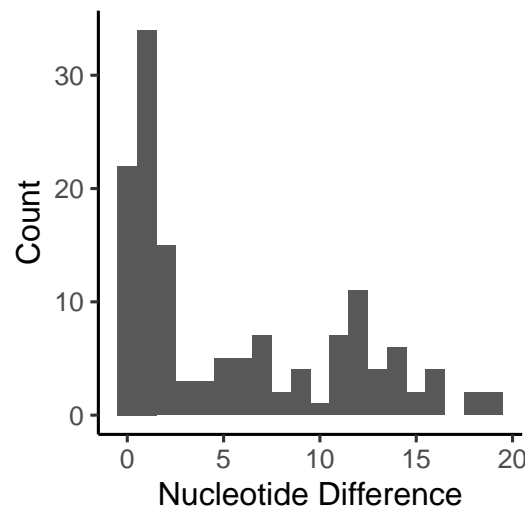
IGHV3–NL_19*01_S6894

6 sequences assigned
3 (50%) exact matches, in which:
2 unique CDR3
1 unique J



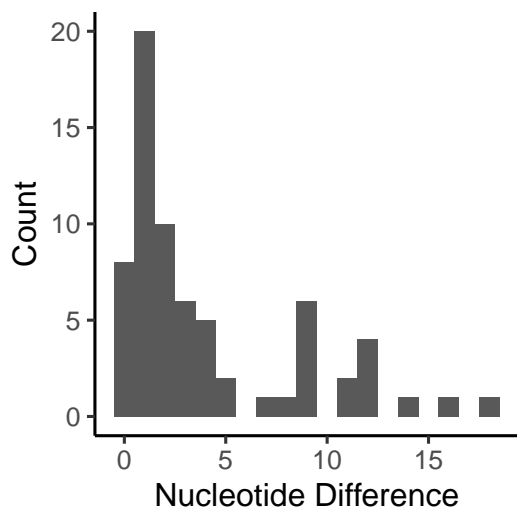
IGHV4–67*01_S4509

160 sequences assigned
22 (13.8%) exact matches, in which:
15 unique CDR3
1 unique J



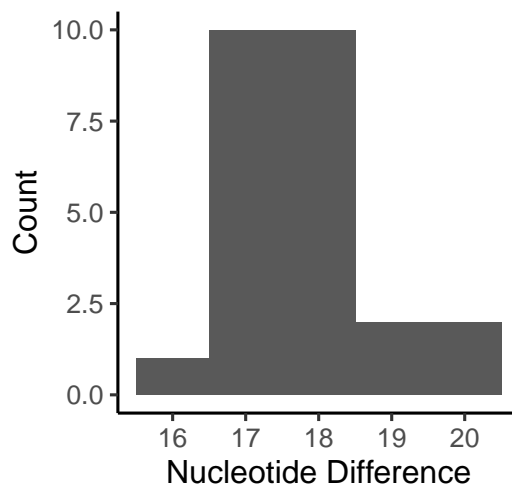
IGHV3–NL_14*01_S1113

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



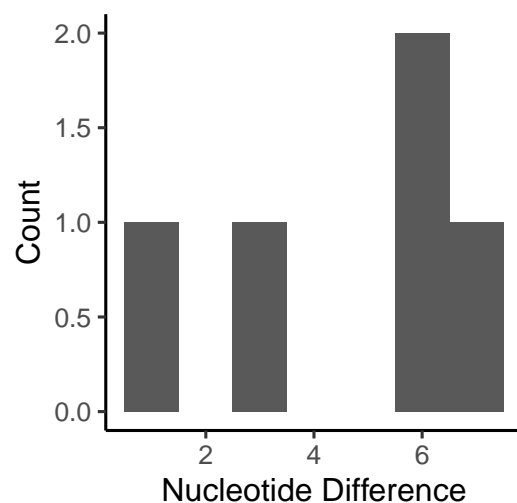
IGHV3–NL_7*01_S0199

169 sequences assigned
No exact matches.



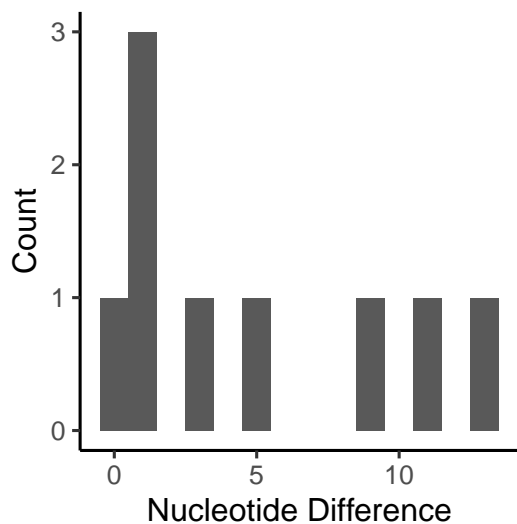
IGHV4–72*01_S8261

5 sequences assigned
No exact matches.



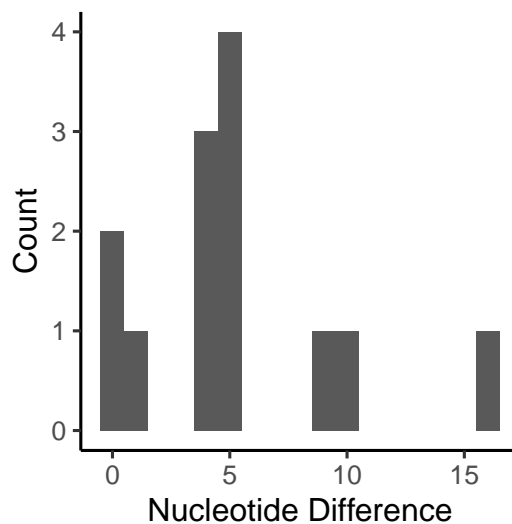
IGHV3–NL_17*01_S4250

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



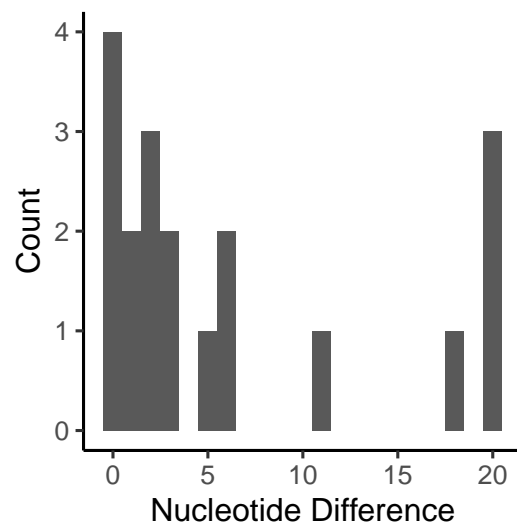
IGHV3–NL_9*01_S6098

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



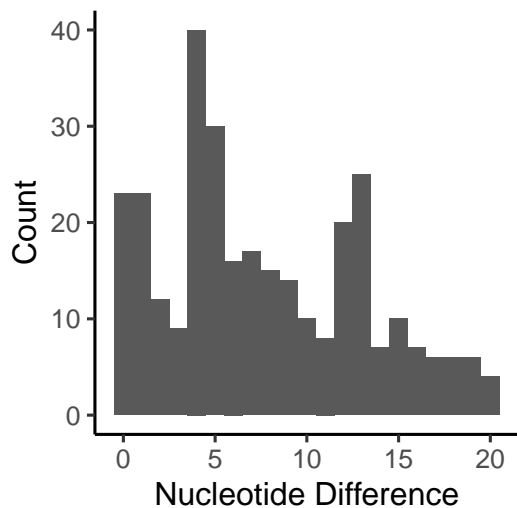
IGHV4–79*02_S9501

33 sequences assigned
4 (12.1%) exact matches, in which:
3 unique CDR3
1 unique J



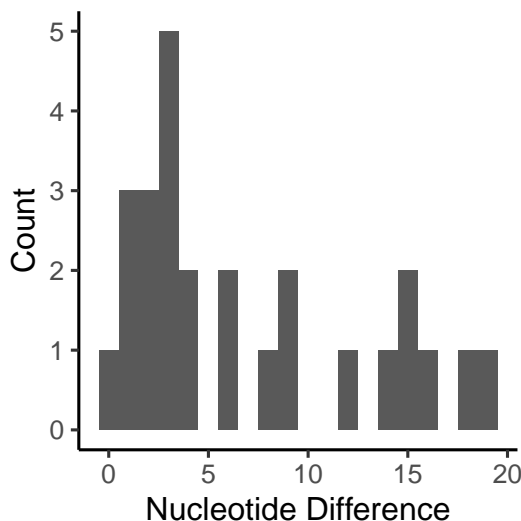
IGHV4-117*01_S4879

328 sequences assigned
23 (7%) exact matches, in which:
19 unique CDR3
1 unique J



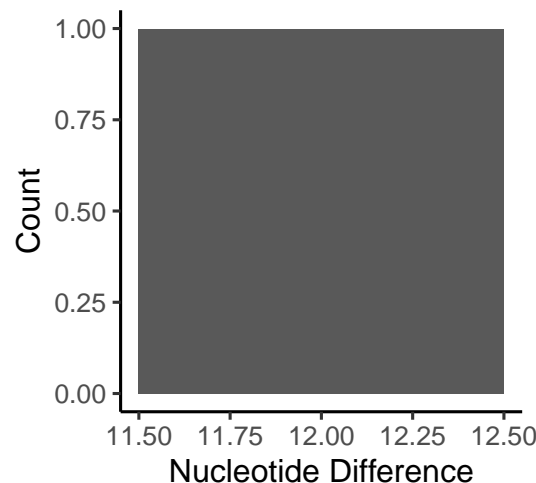
IGHV4-174*02_S3984

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



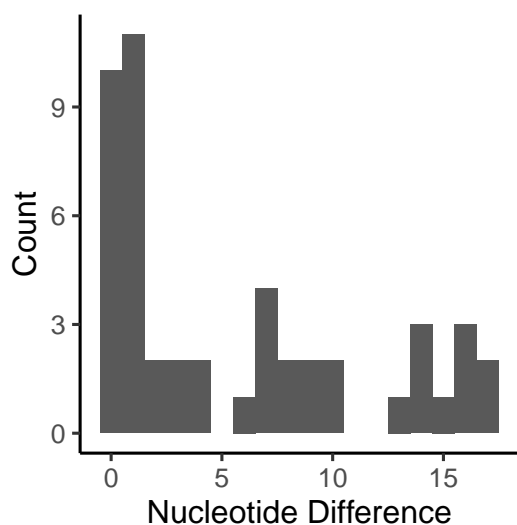
IGHV4-NL_16*01_S2138

1 sequences assigned
No exact matches.



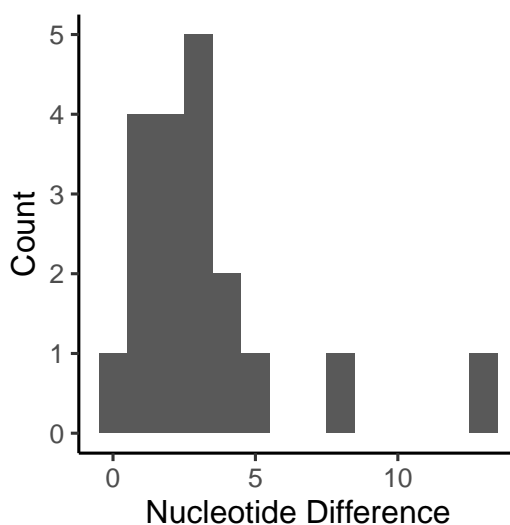
IGHV4-144*01_S3008

58 sequences assigned
10 (17.2%) exact matches, in which:
10 unique CDR3
1 unique J



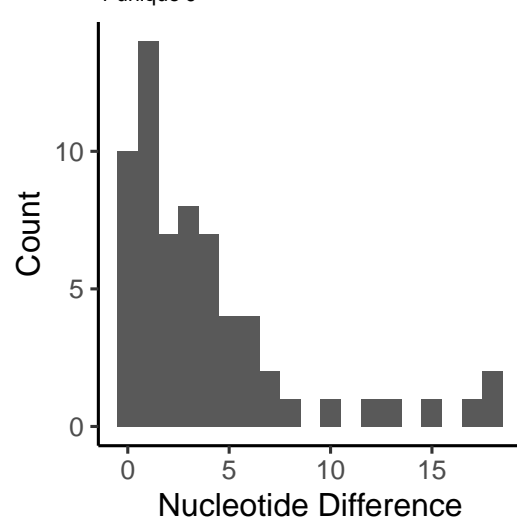
IGHV4-NL_1*02_S1821

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



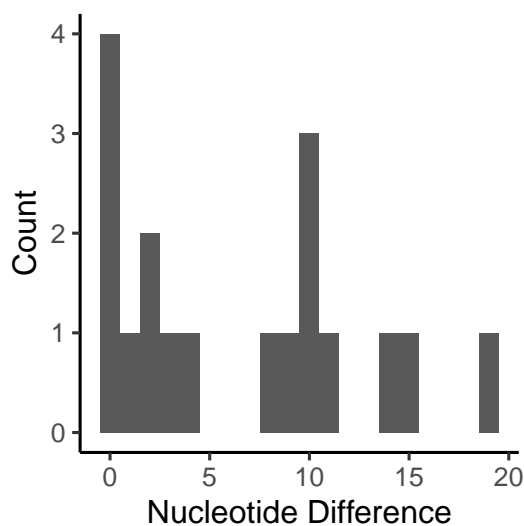
IGHV4-NL_17*01_S2469

69 sequences assigned
10 (14.5%) exact matches, in which:
10 unique CDR3
1 unique J



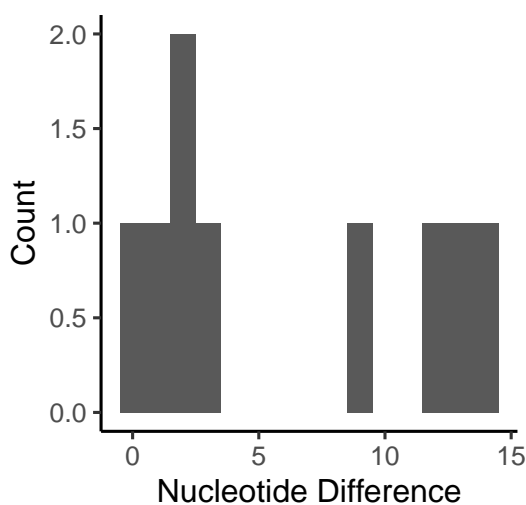
IGHV4-150*01_S0749

18 sequences assigned
4 (22.2%) exact matches, in which:
3 unique CDR3
1 unique J



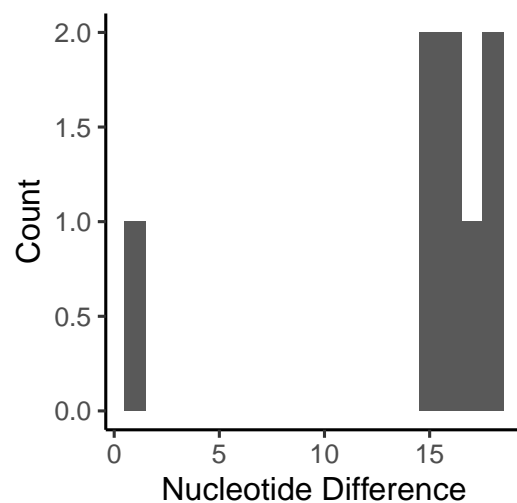
IGHV4-NL_1*02_S5113

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



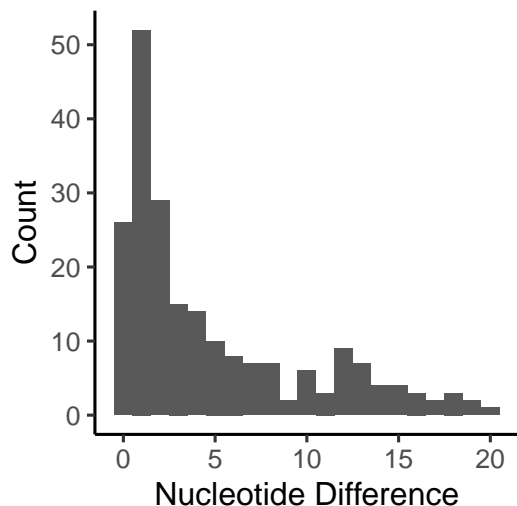
IGHV4-NL_17*01_S5431

10 sequences assigned
No exact matches.



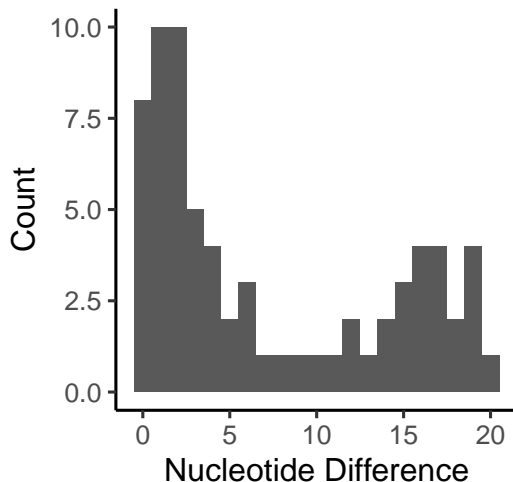
IGHV4–NL_21*01_S6650

219 sequences assigned
26 (11.9%) exact matches, in which:
20 unique CDR3
1 unique J



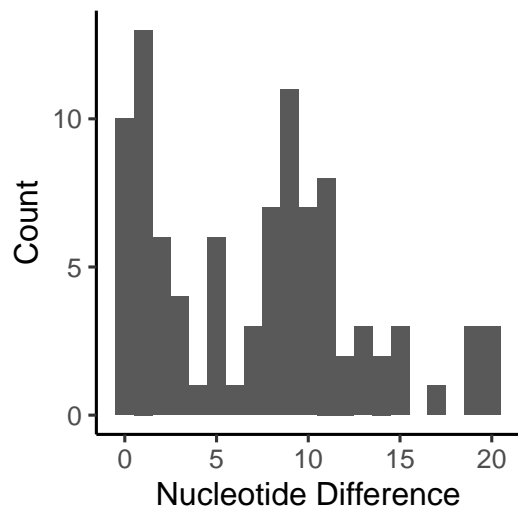
IGHV4–NL_27*01_S1458

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



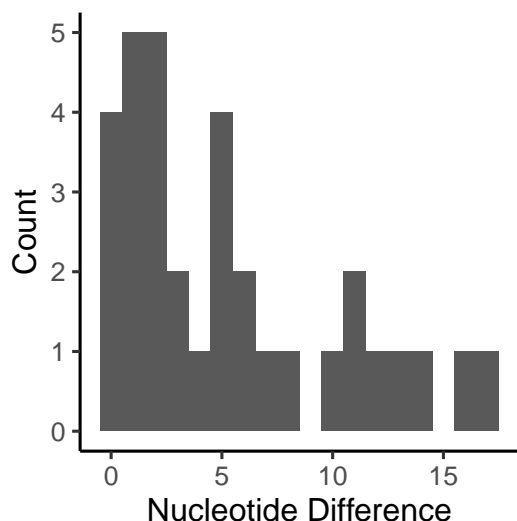
IGHV4–NL_33*01_S4467

105 sequences assigned
10 (9.5%) exact matches, in which:
9 unique CDR3
1 unique J



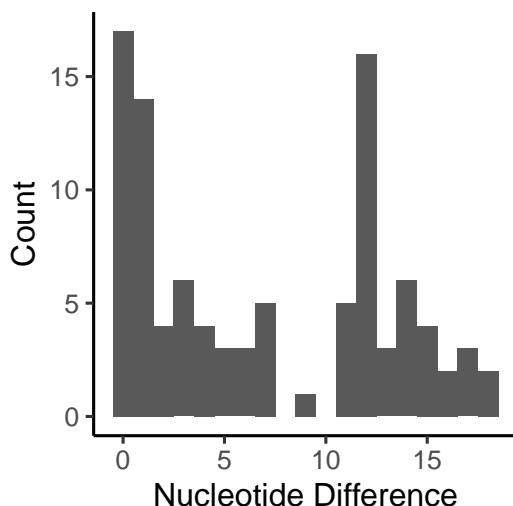
IGHV4–NL_22*01_S6977

34 sequences assigned
4 (11.8%) exact matches, in which:
4 unique CDR3
1 unique J



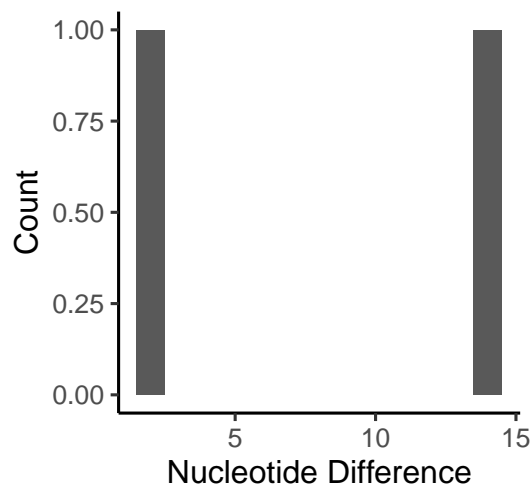
IGHV4–NL_27*01_S9001

105 sequences assigned
17 (16.2%) exact matches, in which:
13 unique CDR3
1 unique J



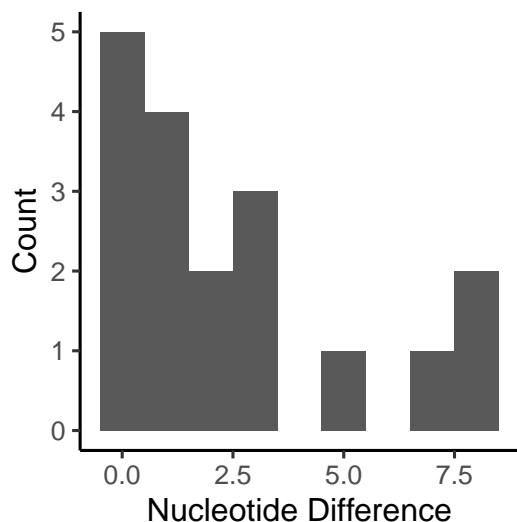
IGHV4–NL_34*01_S4749

2 sequences assigned
No exact matches.



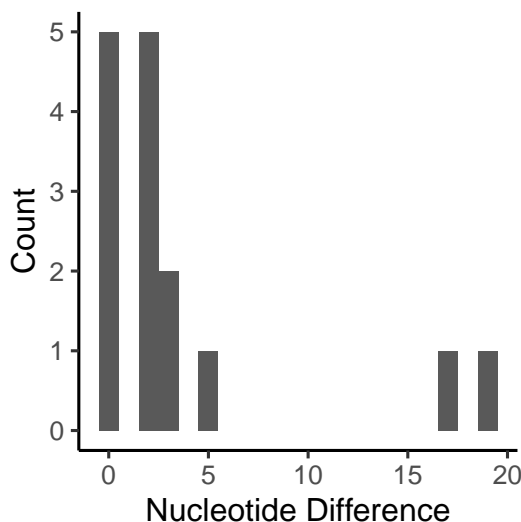
IGHV4–NL_24*01_S7595

18 sequences assigned
5 (27.8%) exact matches, in which:
3 unique CDR3
1 unique J



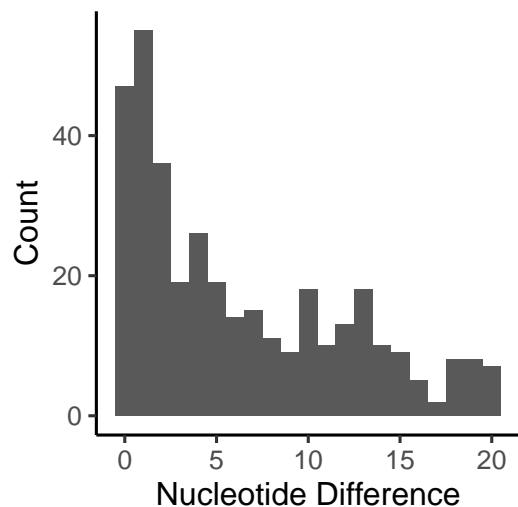
IGHV4–NL_29*01_S3761

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



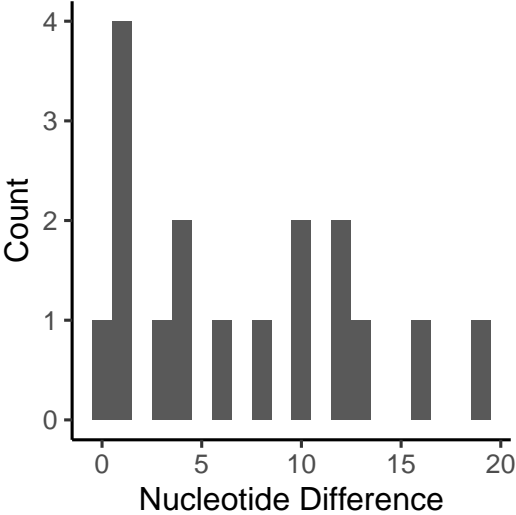
IGHV4–NL_38*01_S9472

386 sequences assigned
47 (12.2%) exact matches, in which:
41 unique CDR3
1 unique J



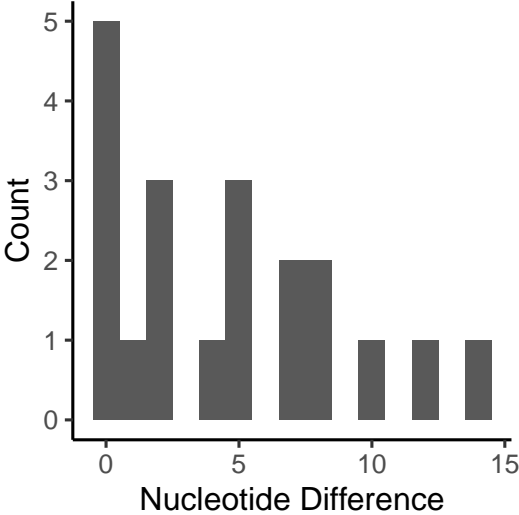
IGHV4–NL_42*01_S3572

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



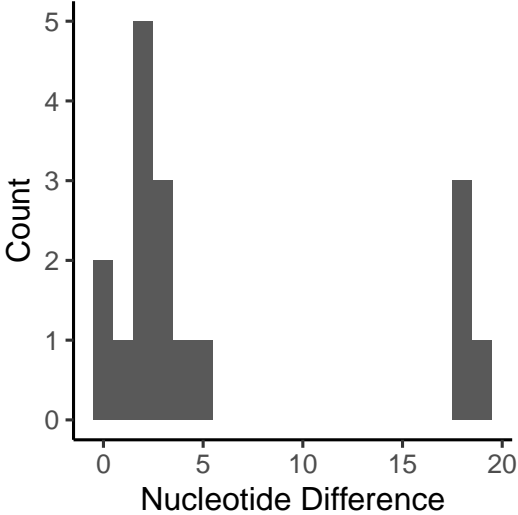
IGHV4–NL_5*01_S7147

20 sequences assigned
5 (25%) exact matches, in which:
4 unique CDR3
1 unique J



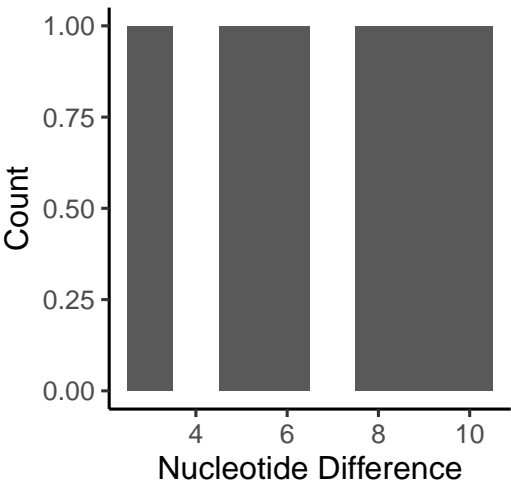
IGHV7–135*02_S1424

23 sequences assigned
2 (8.7%) exact matches, in which:
1 unique CDR3
1 unique J



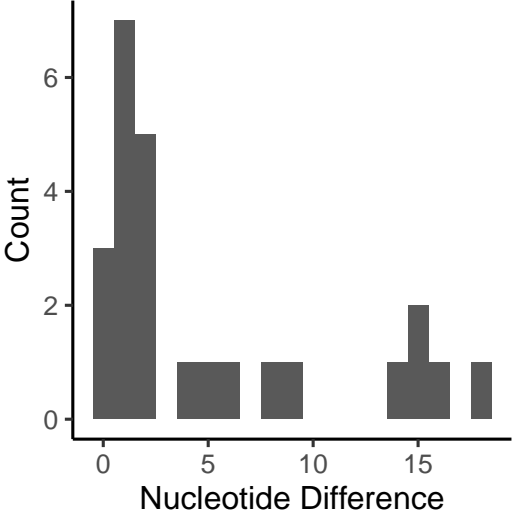
IGHV4–NL_42*01_S3666

7 sequences assigned
No exact matches.



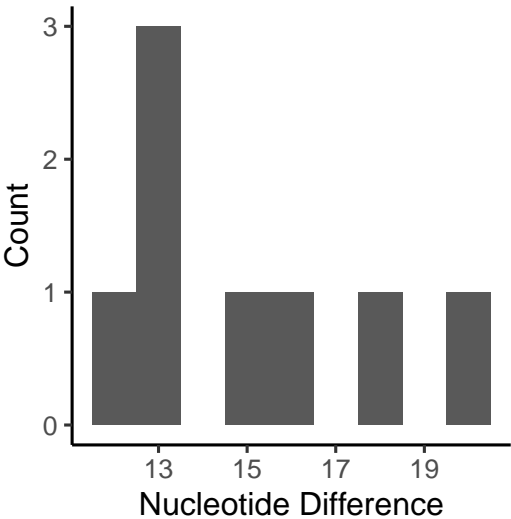
IGHV4–NL_9*01_S3502

25 sequences assigned
3 (12%) exact matches, in which:
3 unique CDR3
1 unique J



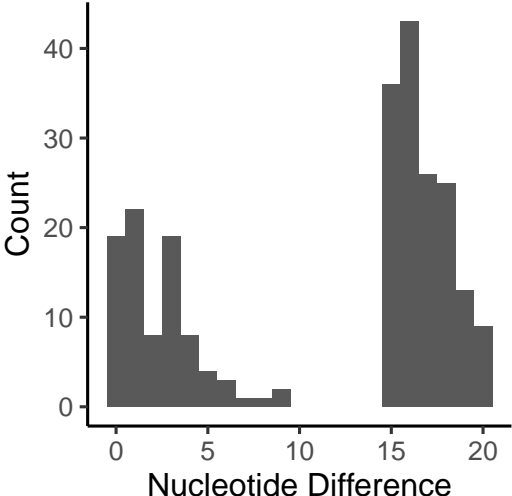
IGHV4–NL_5*01_S6281

8 sequences assigned
No exact matches.

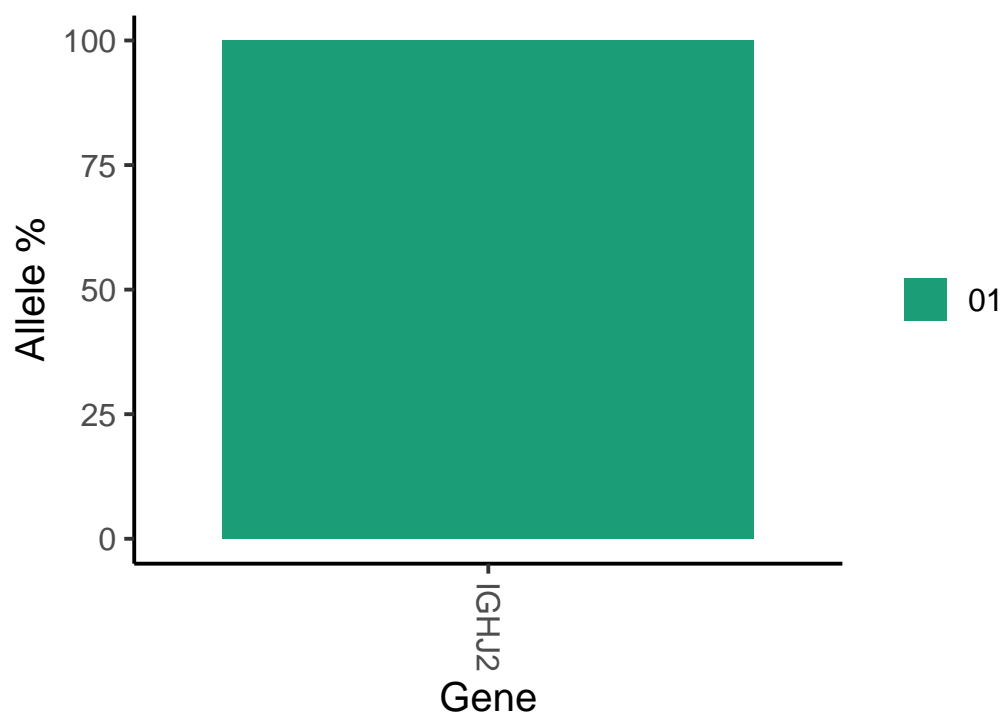


IGHV5–157*01_S6479

283 sequences assigned
19 (6.7%) exact matches, in which:
11 unique CDR3
1 unique J



Allele Usage



Warning – no inferred sequences found.