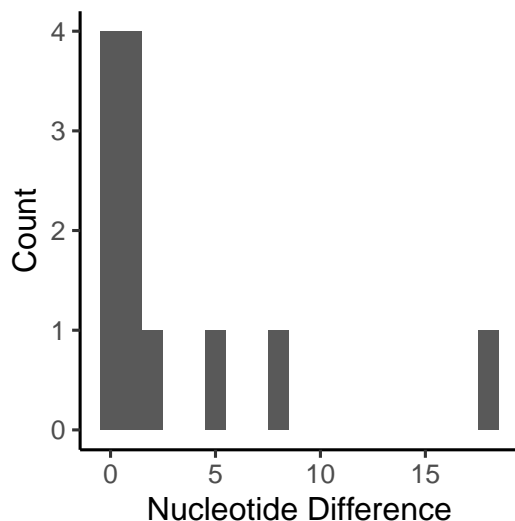


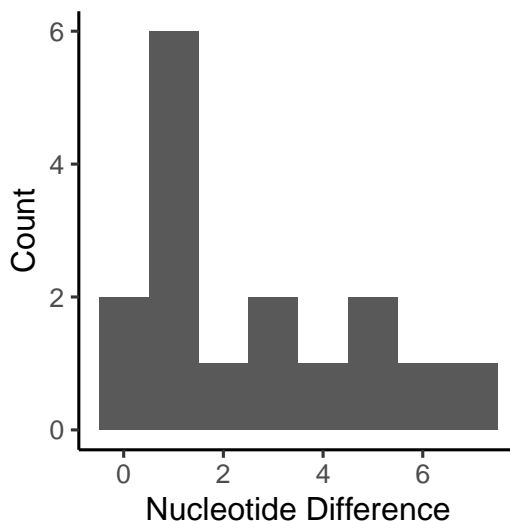
IGHV1-84*01_S0302

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



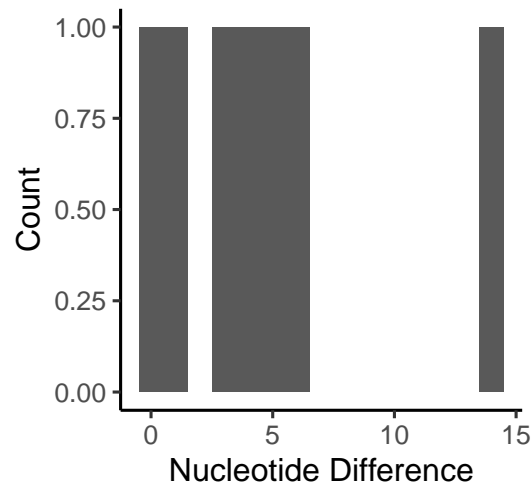
IGHV1-138*01_S2054

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



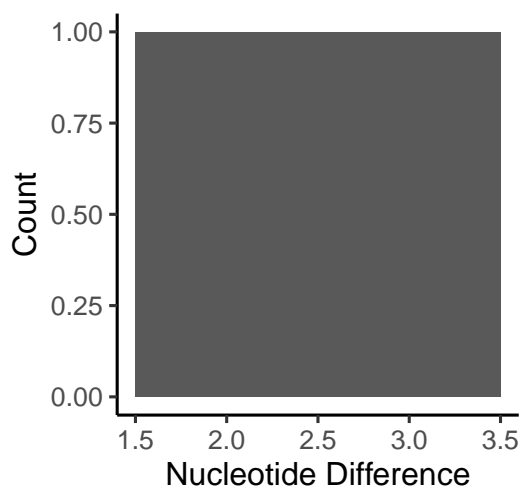
IGHV2-69*01_S4797

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



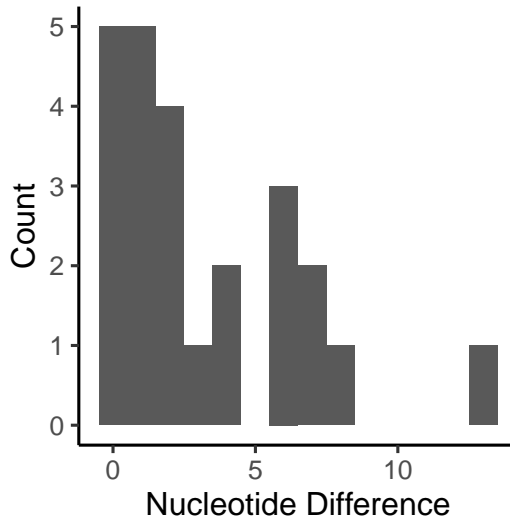
IGHV1-84*01_S5842

2 sequences assigned
No exact matches.



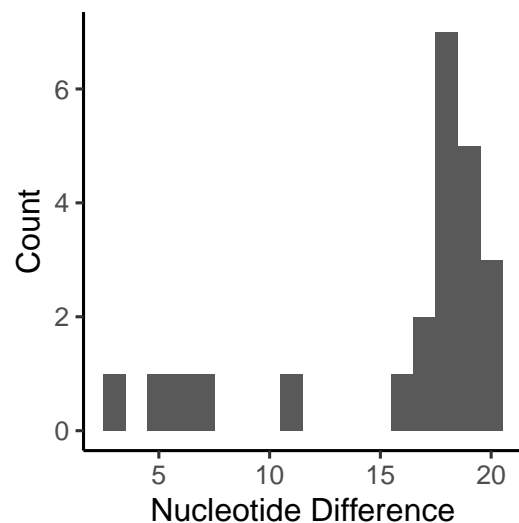
IGHV1-170*01_S3055

24 sequences assigned
5 (20.8%) exact matches, in which:
2 unique CDR3
1 unique J



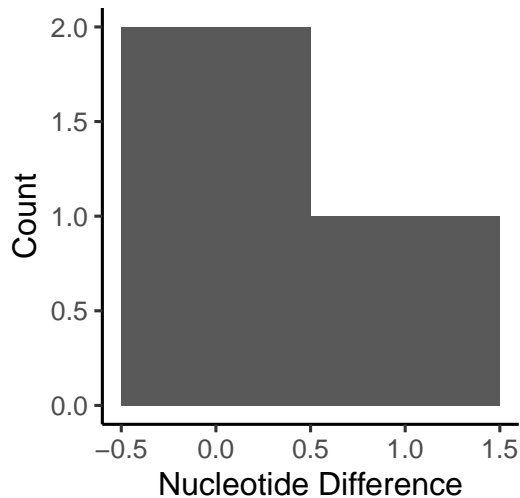
IGHV2-69*01_S5121

30 sequences assigned
No exact matches.



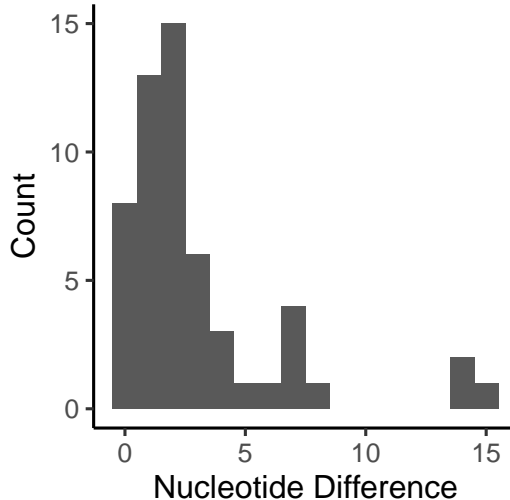
IGHV1-124*01_S1765

3 sequences assigned
2 (66.7%) exact matches, in which:
1 unique CDR3
1 unique J



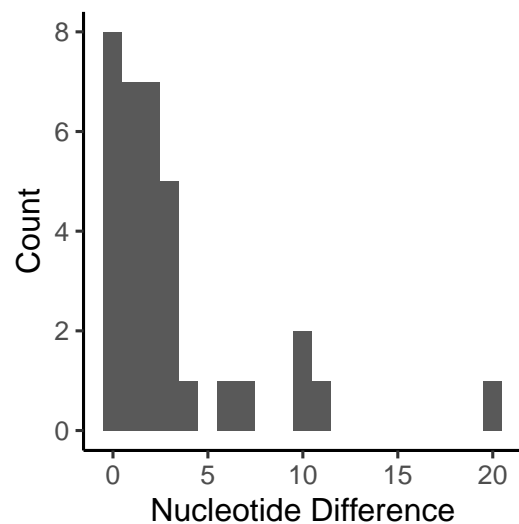
IGHV1-NL_1*01_S2052

55 sequences assigned
8 (14.5%) exact matches, in which:
4 unique CDR3
1 unique J



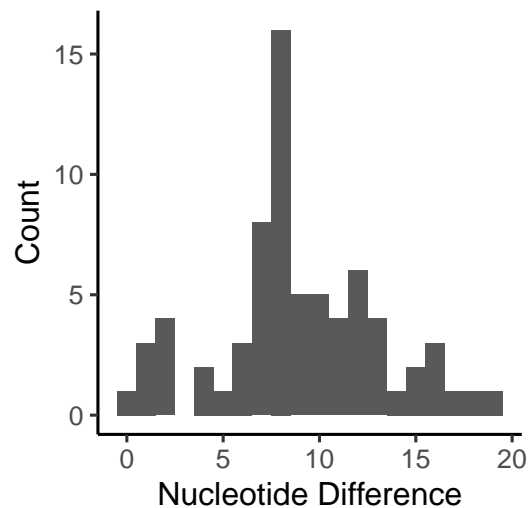
IGHV2-69*02_S8202

34 sequences assigned
8 (23.5%) exact matches, in which:
6 unique CDR3
1 unique J



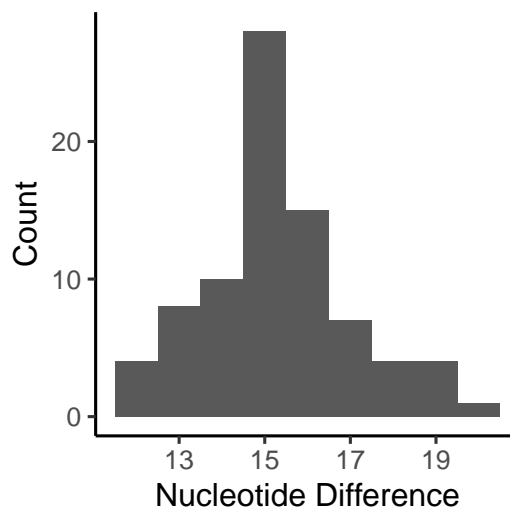
IGHV2-173*01_S9930

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



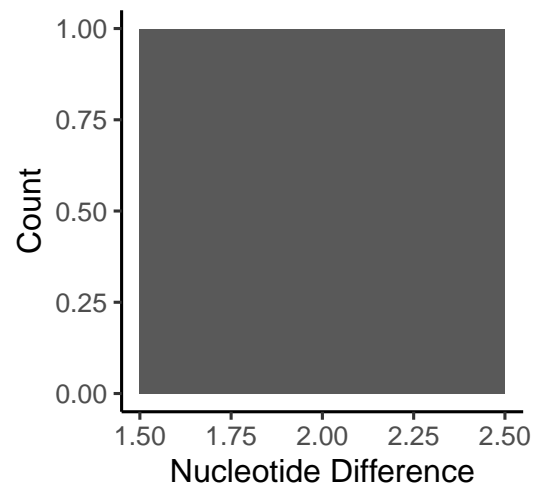
IGHV3-37*01_S6325

93 sequences assigned
No exact matches.



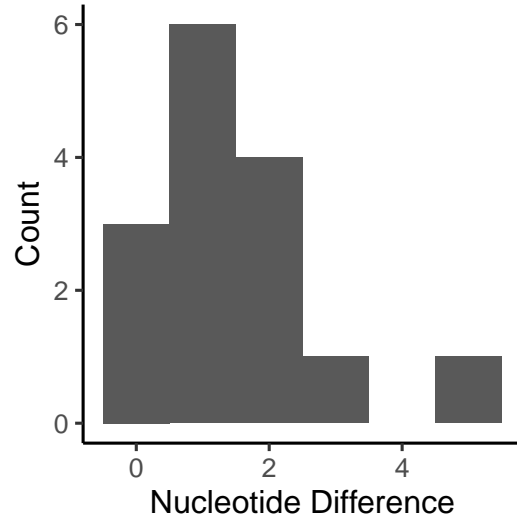
IGHV3-53*01_S3647

1 sequences assigned
No exact matches.



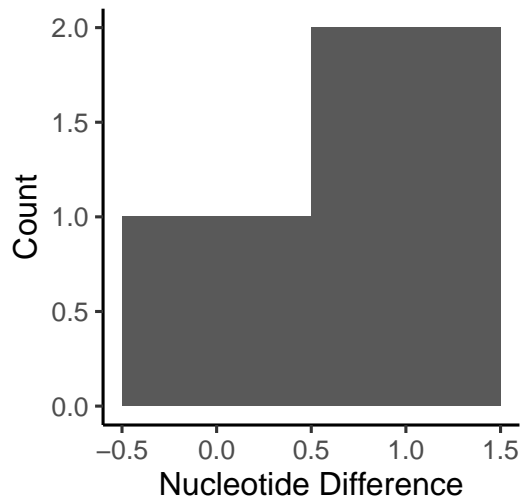
IGHV2-NL_2*01_S2193

15 sequences assigned
3 (20%) exact matches, in which:
2 unique CDR3
1 unique J



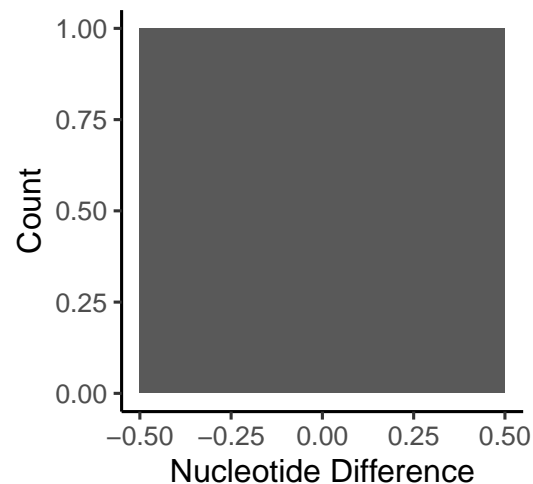
IGHV3-50*01_S6687

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



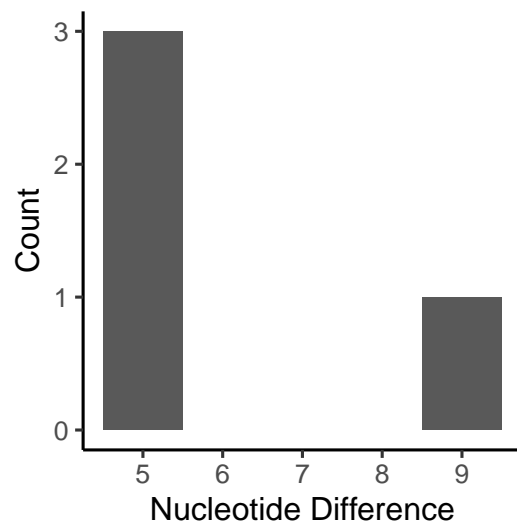
IGHV3-73*01_S3636

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



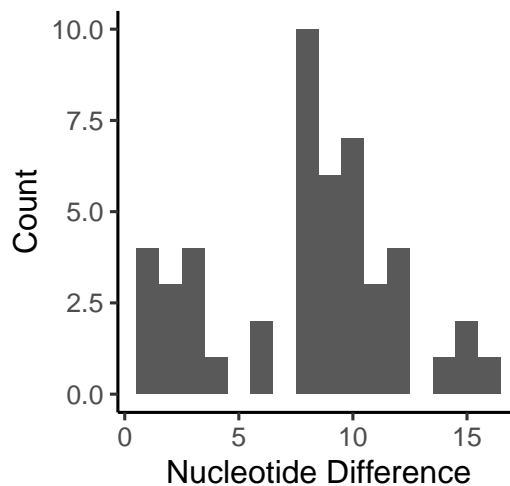
IGHV3-36*01_S5206

4 sequences assigned
No exact matches.



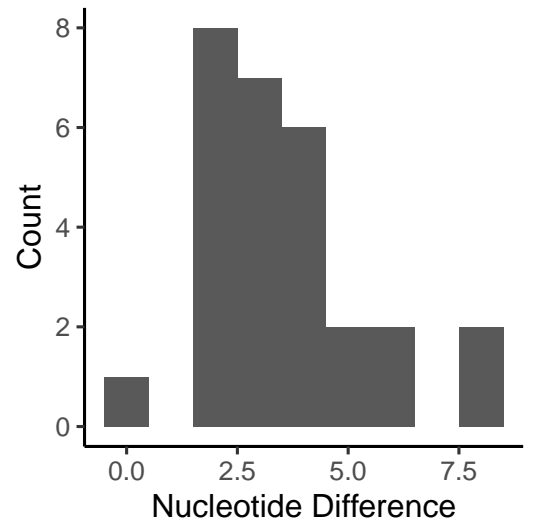
IGHV3-50*01_S9079

48 sequences assigned
No exact matches.



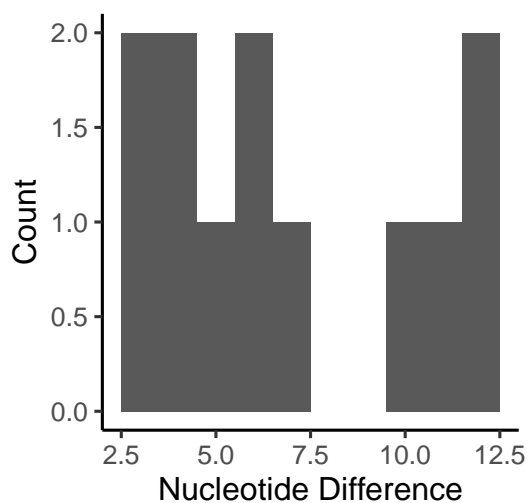
IGHV3-76*02_S4190

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



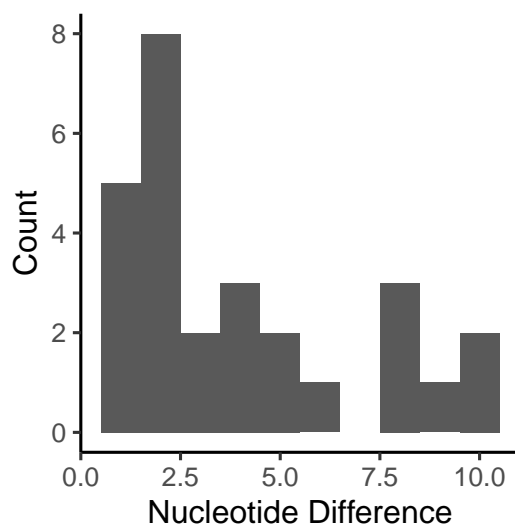
IGHV3-88*02_S1355

13 sequences assigned
No exact matches.



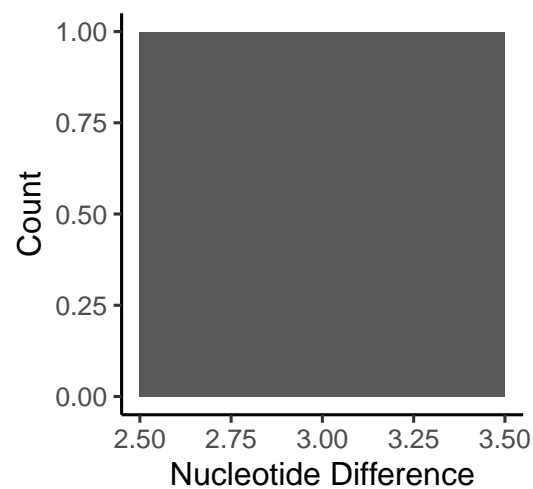
IGHV3-127*01_S6769

27 sequences assigned
No exact matches.



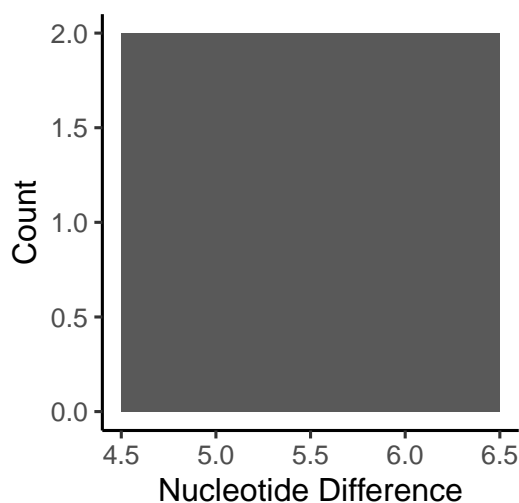
IGHV3-172*01_S0577

1 sequences assigned
No exact matches.



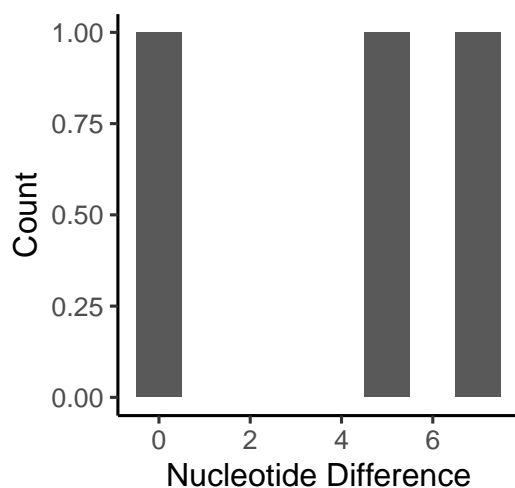
IGHV3-100*01_S4205

4 sequences assigned
No exact matches.



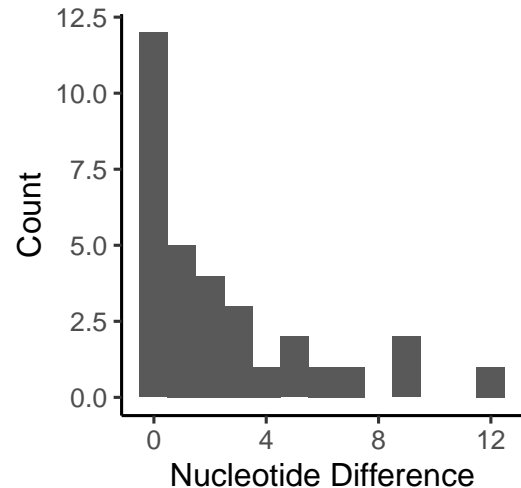
IGHV3-141*01_S3493

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



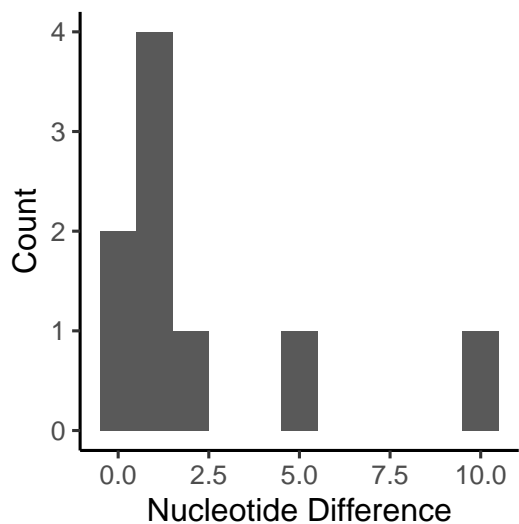
IGHV3-187*01_S1133

33 sequences assigned
12 (36.4%) exact matches, in which:
7 unique CDR3
1 unique J



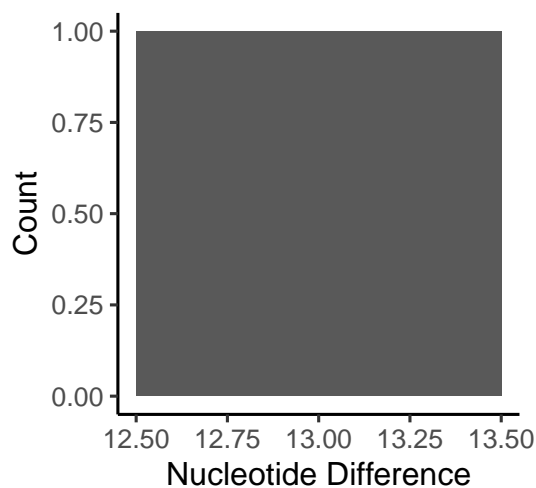
IGHV3-122*01_S5299

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



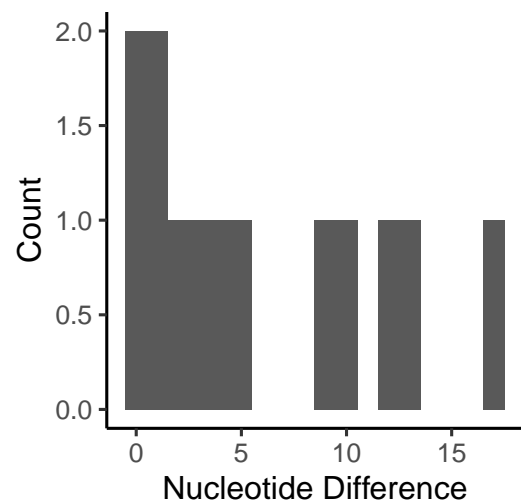
IGHV3-152*01_S5891

2 sequences assigned
No exact matches.



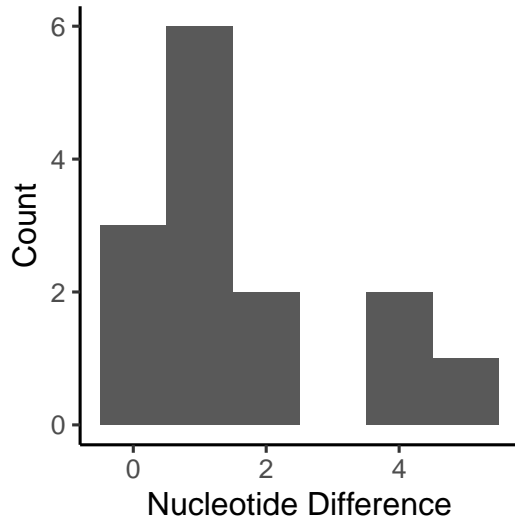
IGHV3-NL_1*01_S4331

32 sequences assigned
2 (6.2%) exact matches, in which:
1 unique CDR3
1 unique J



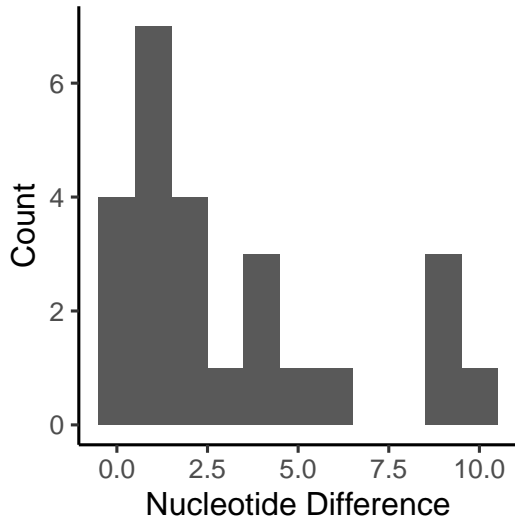
IGHV3-NL_1*01_S9422

27 sequences assigned
3 (11.1%) exact matches, in which:
3 unique CDR3
1 unique J



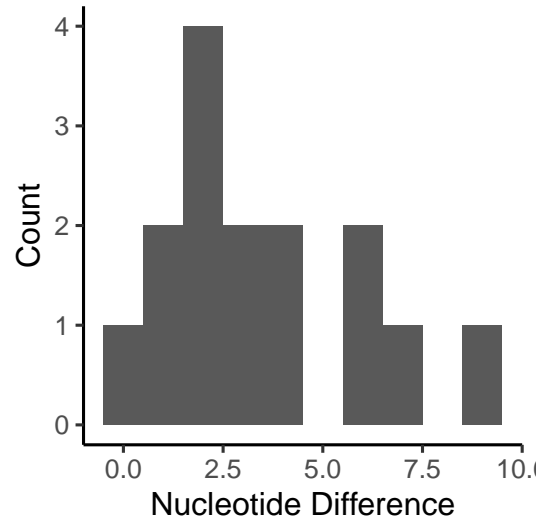
IGHV3-NL_17*01_S8244

25 sequences assigned
4 (16%) exact matches, in which:
2 unique CDR3
1 unique J



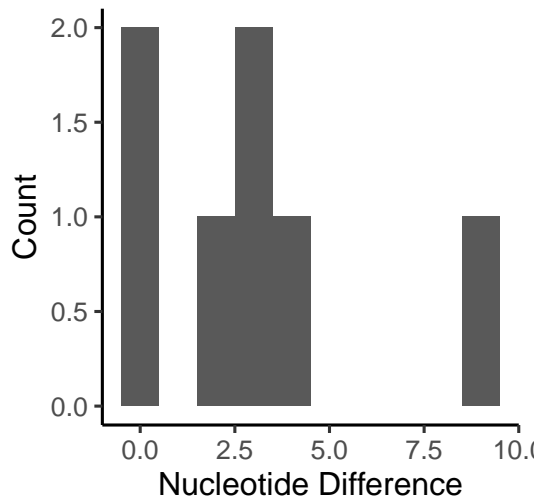
IGHV4-72*01_S2051

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



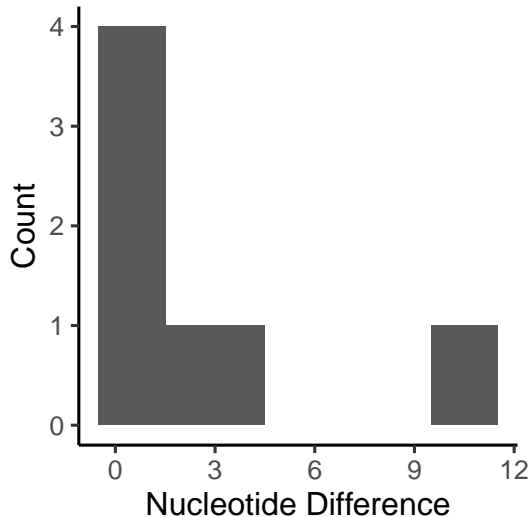
IGHV3-NL_11*01_S4619

8 sequences assigned
2 (25%) exact matches, in which:
2 unique CDR3
1 unique J



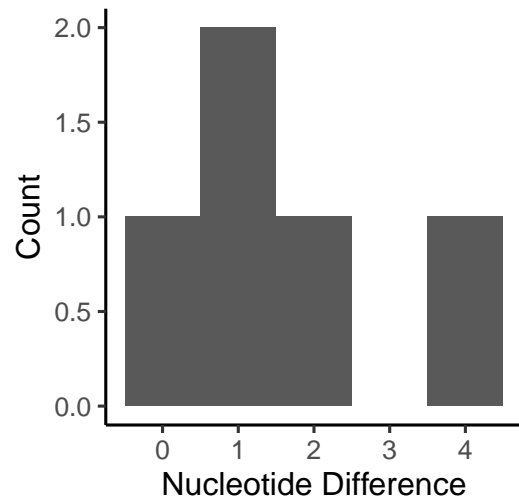
IGHV3-NL_4*01_S9635

13 sequences assigned
4 (30.8%) exact matches, in which:
3 unique CDR3
1 unique J



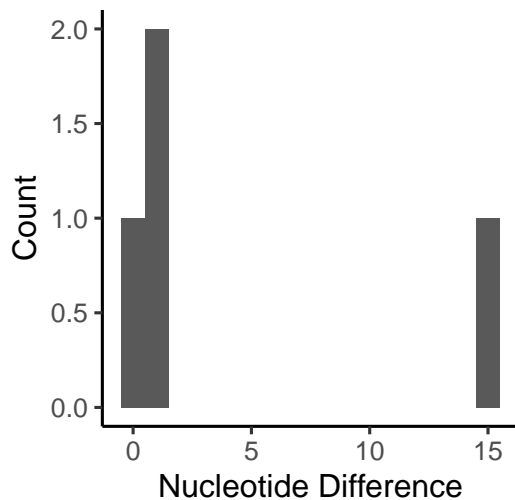
IGHV4-93*01_S0171

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



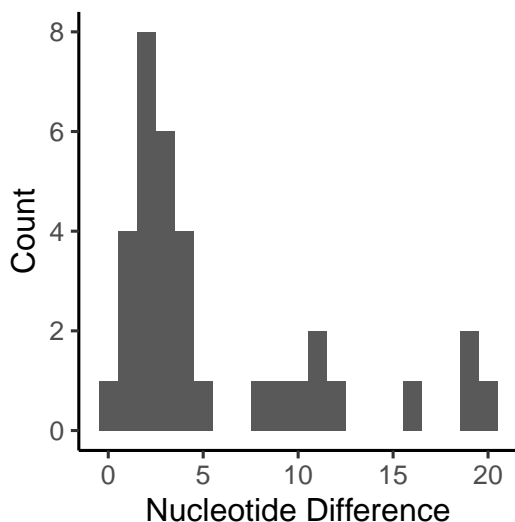
IGHV3-NL_15*01_S5125

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



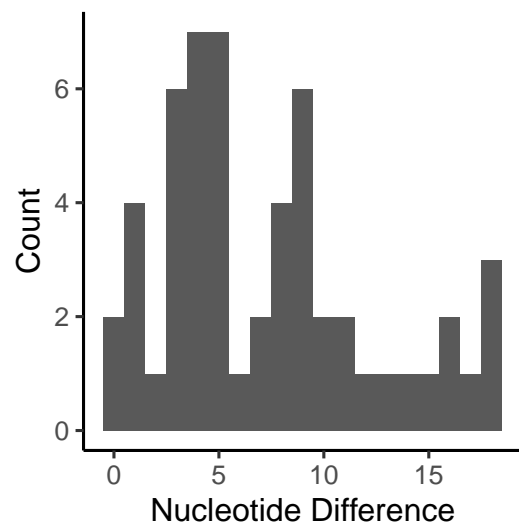
IGHV4-72*01_S1622

36 sequences assigned
1 (2.8%) exact matches, in which:
1 unique CDR3
1 unique J



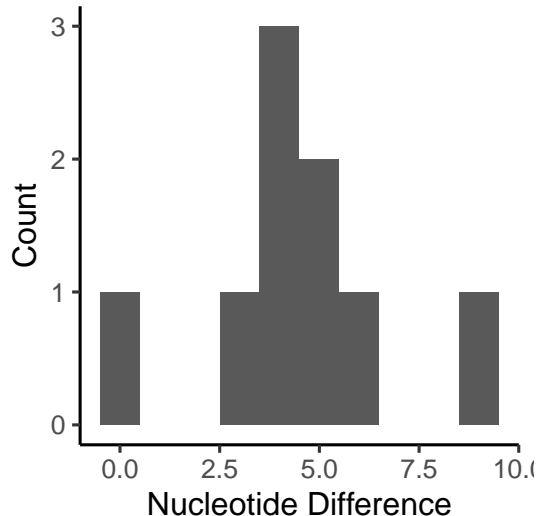
IGHV4-117*01_S5847

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



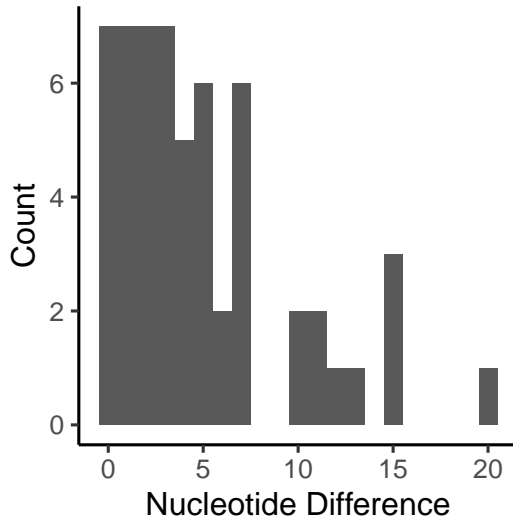
IGHV4-144*01_S2658

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



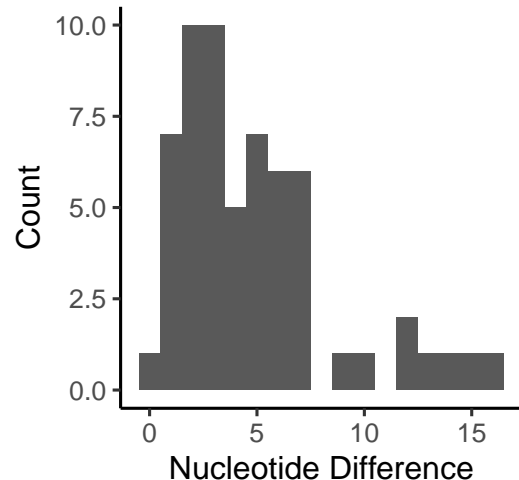
IGHV4-149*01_S1430

58 sequences assigned
7 (12.1%) exact matches, in which:
6 unique CDR3
1 unique J



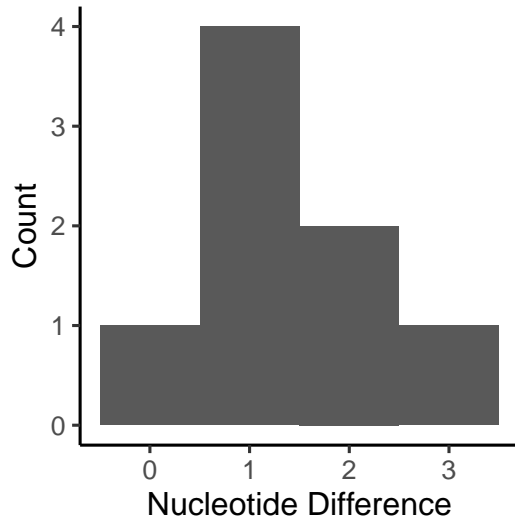
IGHV4-NL_1*01_S0419

61 sequences assigned
1 (1.6%) exact matches, in which:
1 unique CDR3
1 unique J



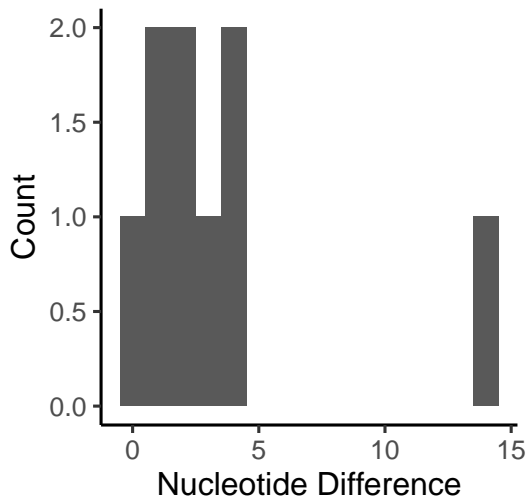
IGHV4-144*01_S9923

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



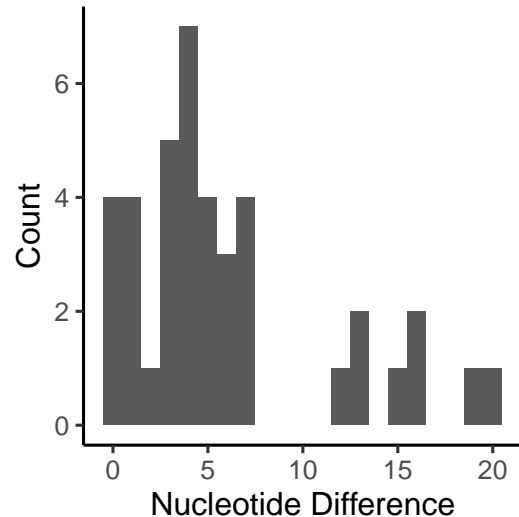
IGHV4-150*01_S5542

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



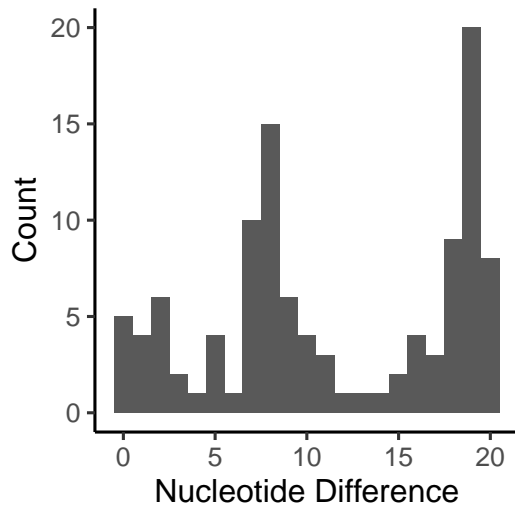
IGHV4-NL_11*01_S5570

41 sequences assigned
4 (9.8%) exact matches, in which:
3 unique CDR3
1 unique J



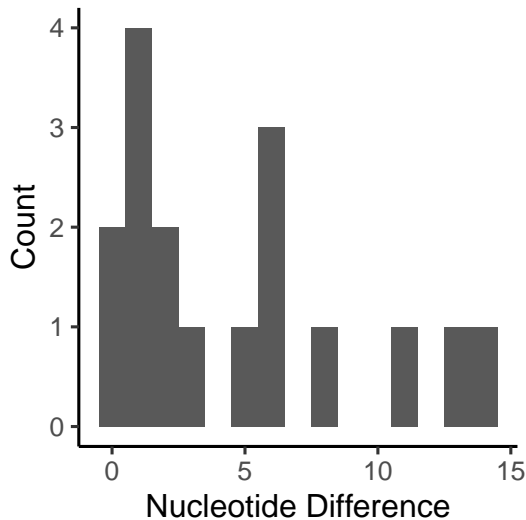
IGHV4-149*01_S0794

184 sequences assigned
5 (2.7%) exact matches, in which:
4 unique CDR3
1 unique J



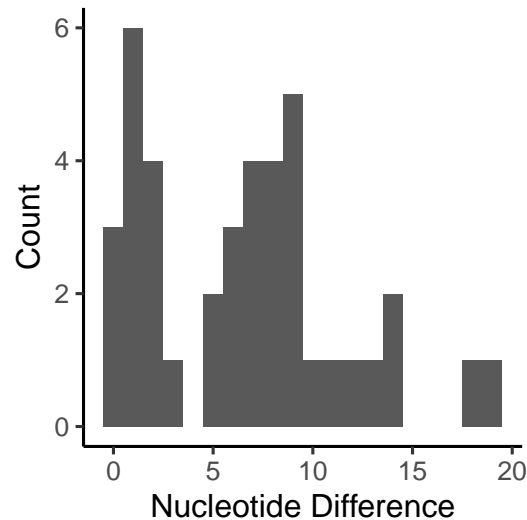
IGHV4-150*01_S9374

17 sequences assigned
2 (11.8%) exact matches, in which:
1 unique CDR3
1 unique J



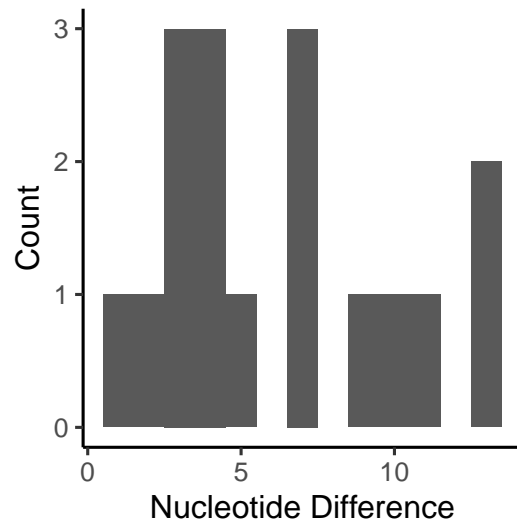
IGHV4-NL_17*01_S0936

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



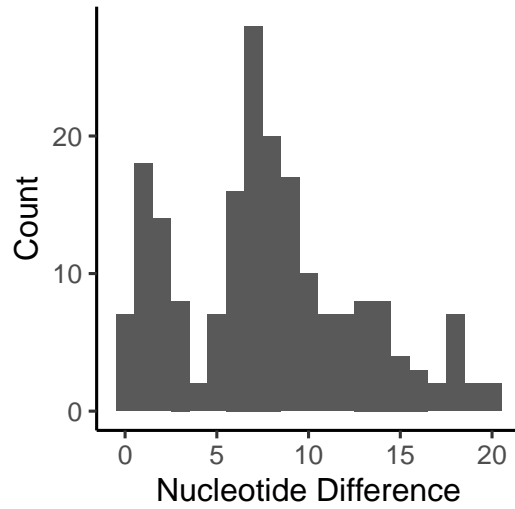
IGHV4–NL_17*01_S4099

18 sequences assigned
No exact matches.



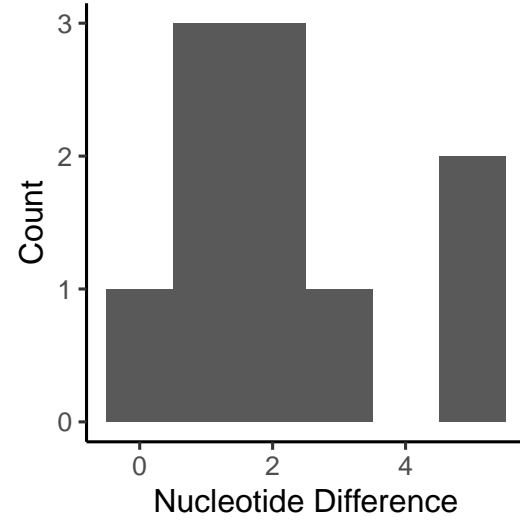
IGHV4–NL_21*01_S4478

210 sequences assigned
7 (3.3%) exact matches, in which:
7 unique CDR3
1 unique J



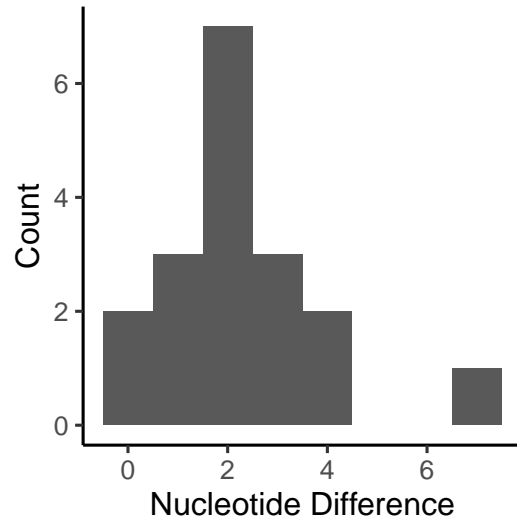
IGHV4–NL_24*01_S5697

11 sequences assigned
1 (9.1%) exact matches, in which:
1 unique CDR3
1 unique J



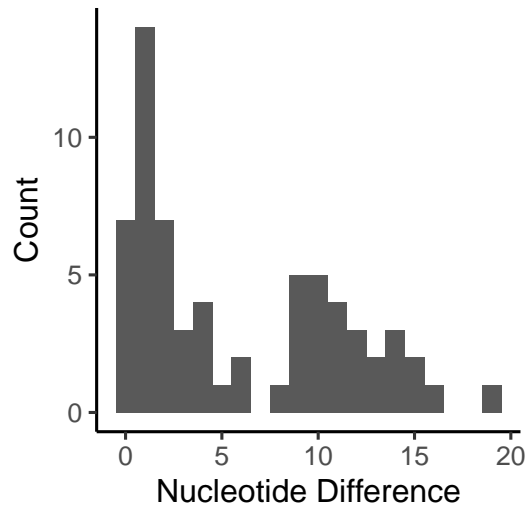
IGHV4–NL_17*01_S4954

18 sequences assigned
2 (11.1%) exact matches, in which:
2 unique CDR3
1 unique J



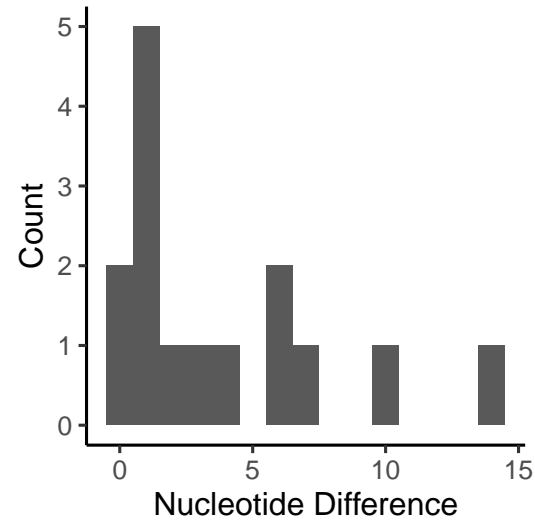
IGHV4–NL_21*01_S7469

128 sequences assigned
7 (5.5%) exact matches, in which:
4 unique CDR3
1 unique J



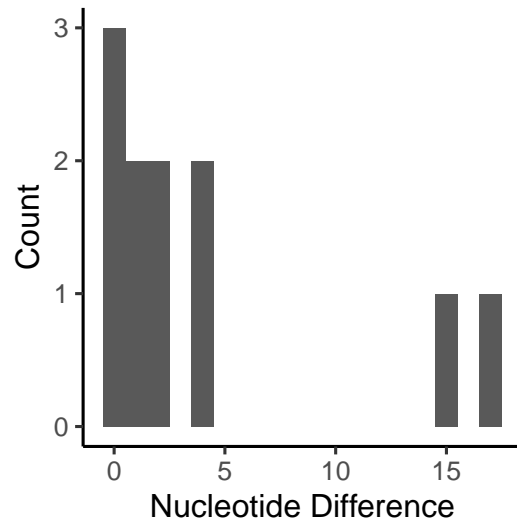
IGHV4–NL_27*01_S6960

15 sequences assigned
2 (13.3%) exact matches, in which:
2 unique CDR3
1 unique J



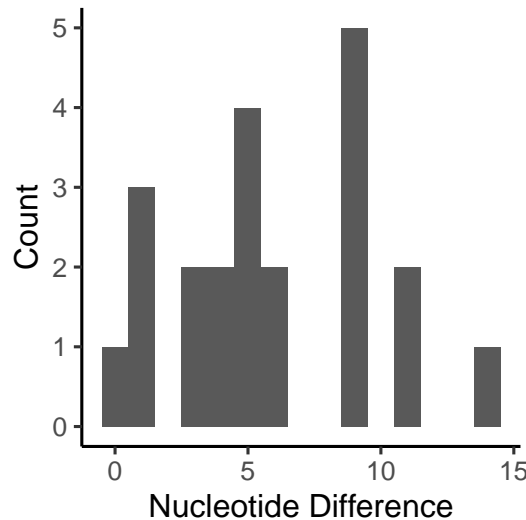
IGHV4–NL_20*01_S0030

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



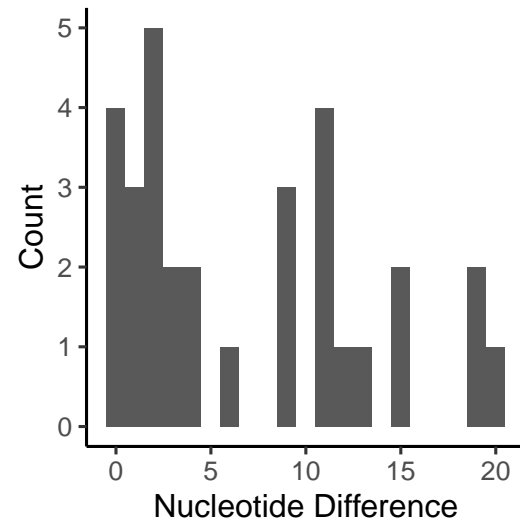
IGHV4–NL_22*01_S6977

29 sequences assigned
1 (3.4%) exact matches, in which:
1 unique CDR3
1 unique J



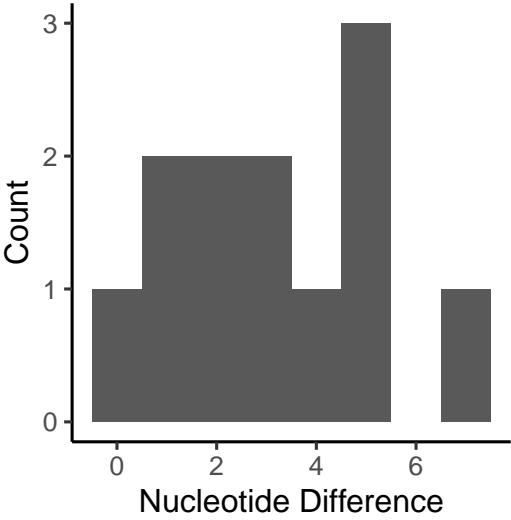
IGHV4–NL_29*01_S9965

32 sequences assigned
4 (12.5%) exact matches, in which:
4 unique CDR3
1 unique J



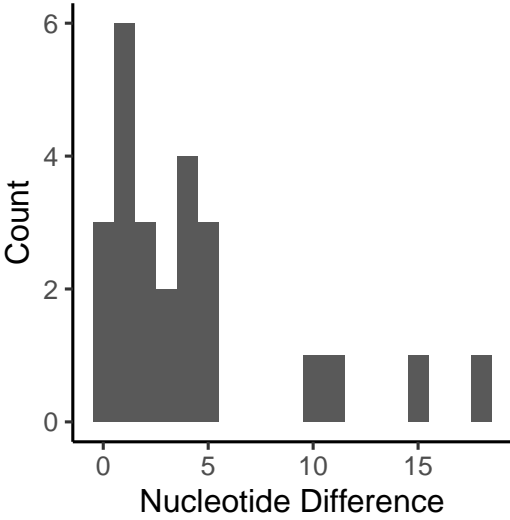
IGHV4–NL_30*01_S4251

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



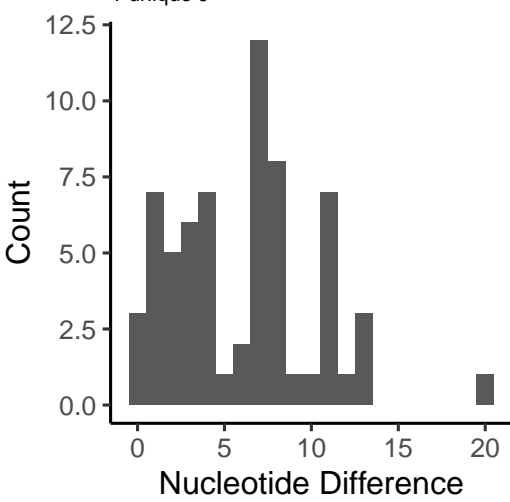
IGHV4–NL_33*01_S5330

28 sequences assigned
3 (10.7%) exact matches, in which:
2 unique CDR3
1 unique J



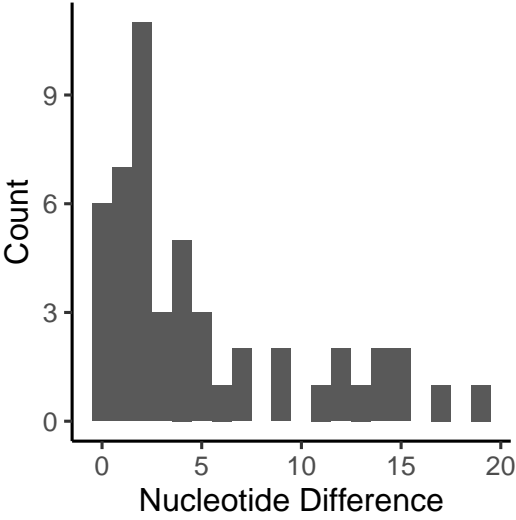
IGHV4–NL_36*01_S5847

66 sequences assigned
3 (4.5%) exact matches, in which:
3 unique CDR3
1 unique J



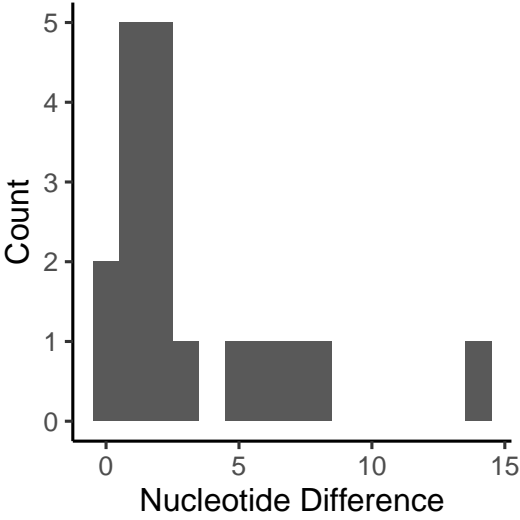
IGHV4–NL_31*01_S7693

117 sequences assigned
6 (5.1%) exact matches, in which:
5 unique CDR3
1 unique J



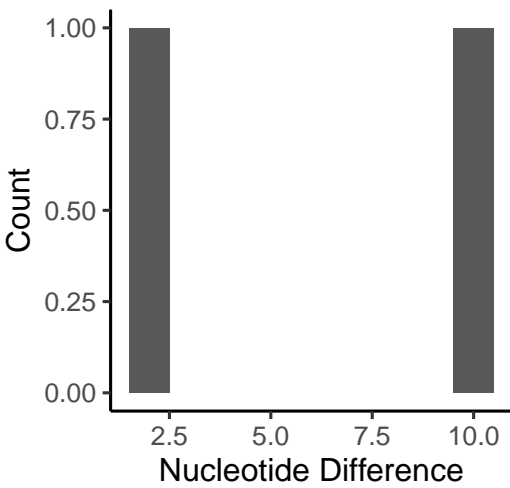
IGHV4–NL_36*01_S0848

18 sequences assigned
2 (11.1%) exact matches, in which:
2 unique CDR3
1 unique J



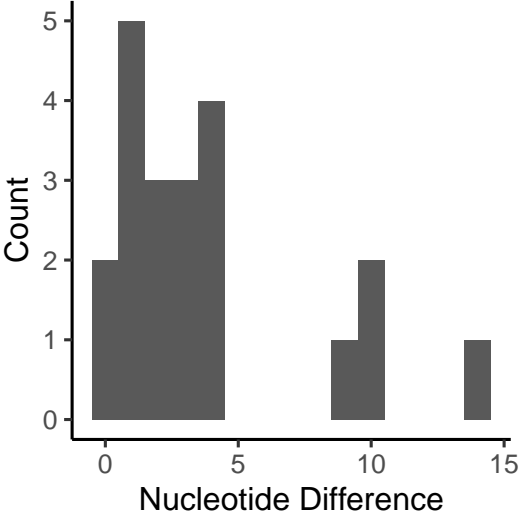
IGHV4–NL_5*01_S8913

2 sequences assigned
No exact matches.



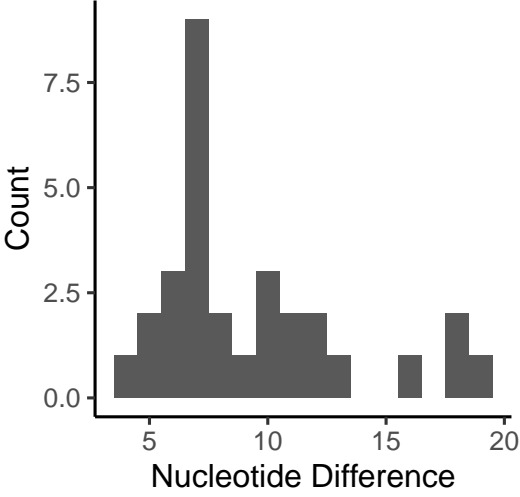
IGHV4–NL_33*01_S4467

22 sequences assigned
2 (9.1%) exact matches, in which:
2 unique CDR3
1 unique J



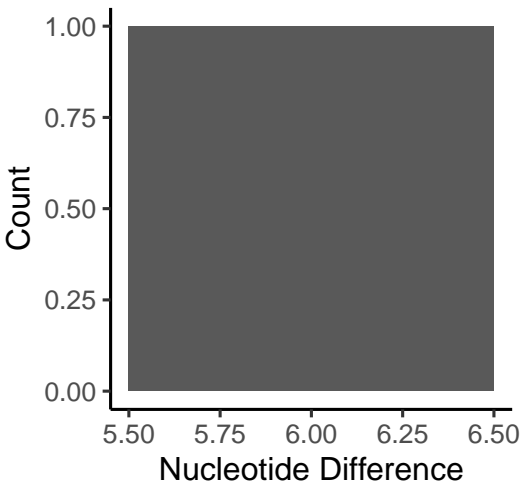
IGHV4–NL_36*01_S0936

31 sequences assigned
No exact matches.



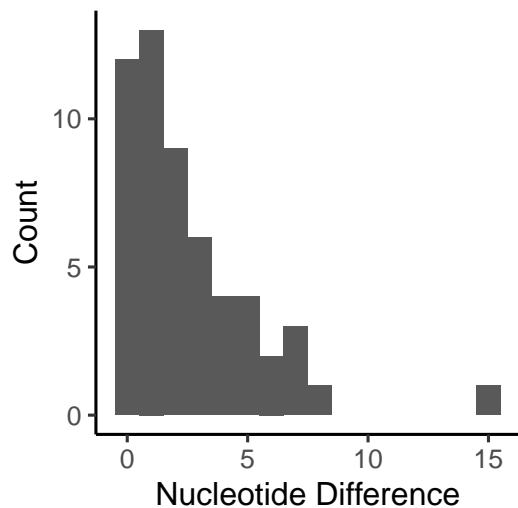
IGHV4–NL_9*01_S4990

1 sequences assigned
No exact matches.



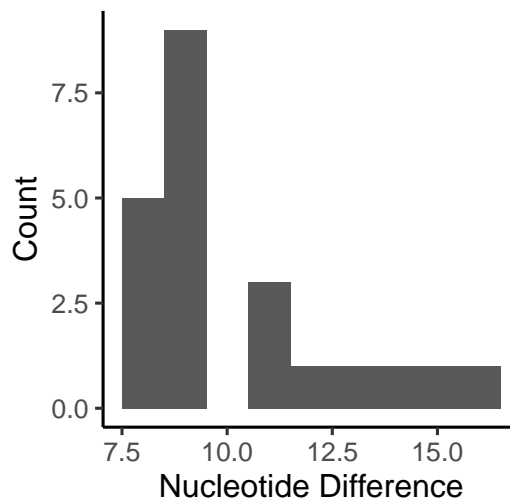
IGHV5-15*01_S0203

55 sequences assigned
12 (21.8%) exact matches, in which:
7 unique CDR3
1 unique J



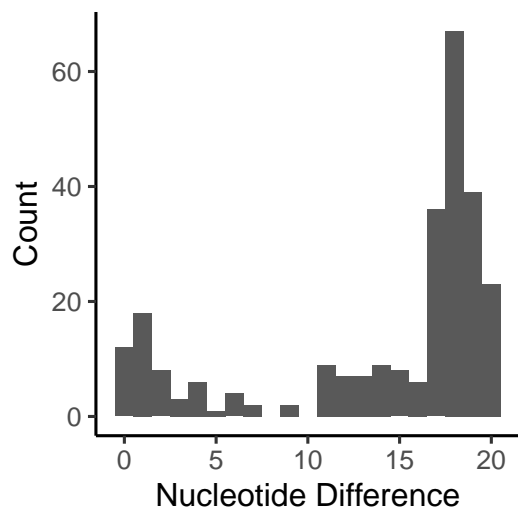
IGHV7-86*01_S7736

22 sequences assigned
No exact matches.



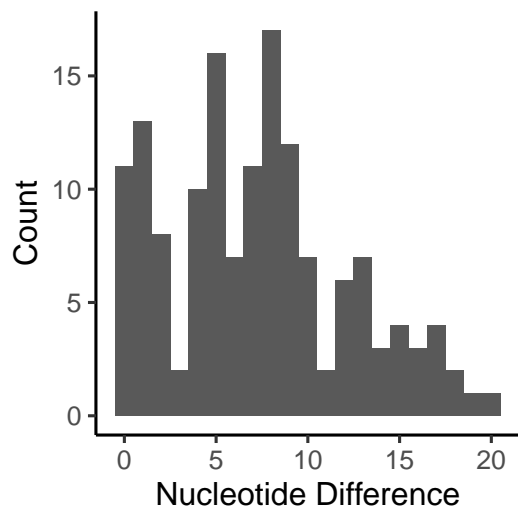
IGHV5-15*01_S8661

337 sequences assigned
12 (3.6%) exact matches, in which:
7 unique CDR3
1 unique J

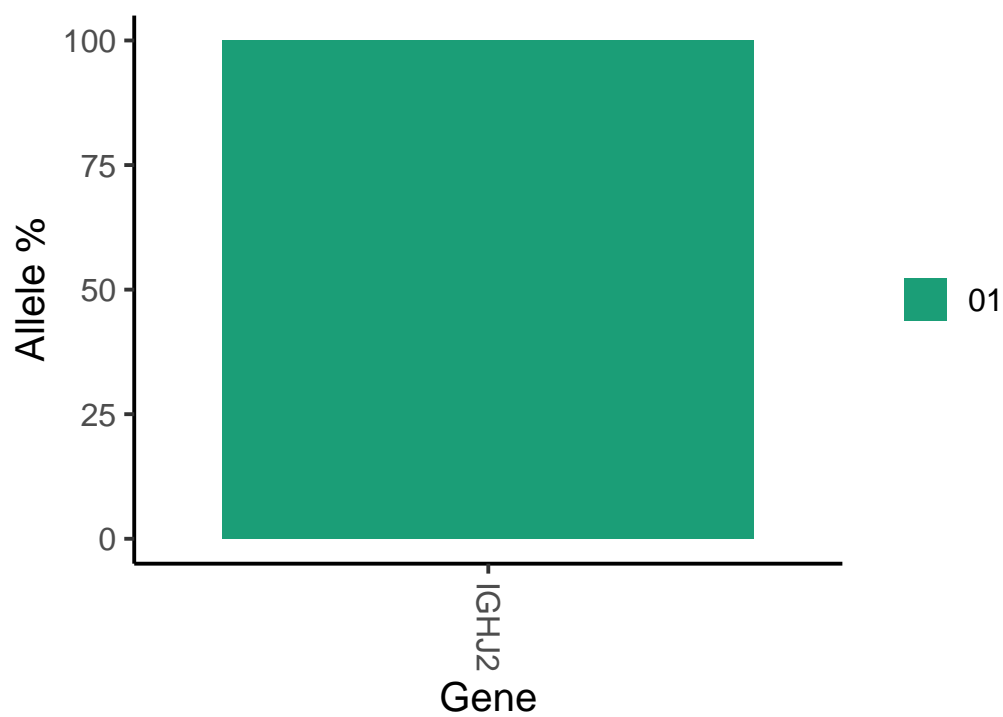


IGHV5-157*01_S8626

148 sequences assigned
11 (7.4%) exact matches, in which:
6 unique CDR3
1 unique J



Allele Usage



Warning – no inferred sequences found.