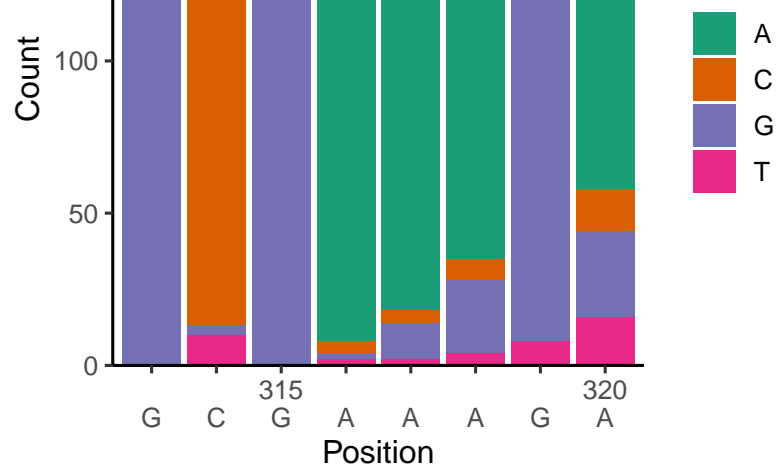
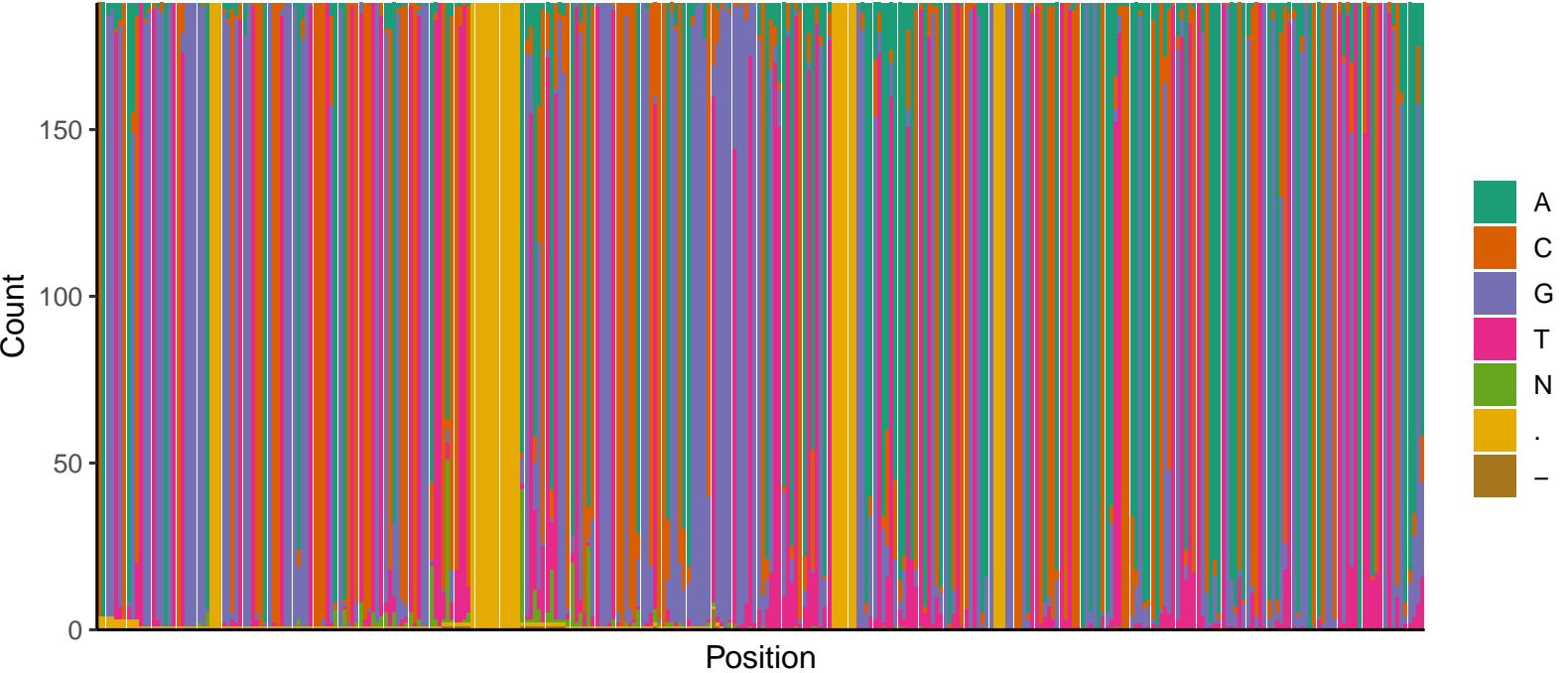


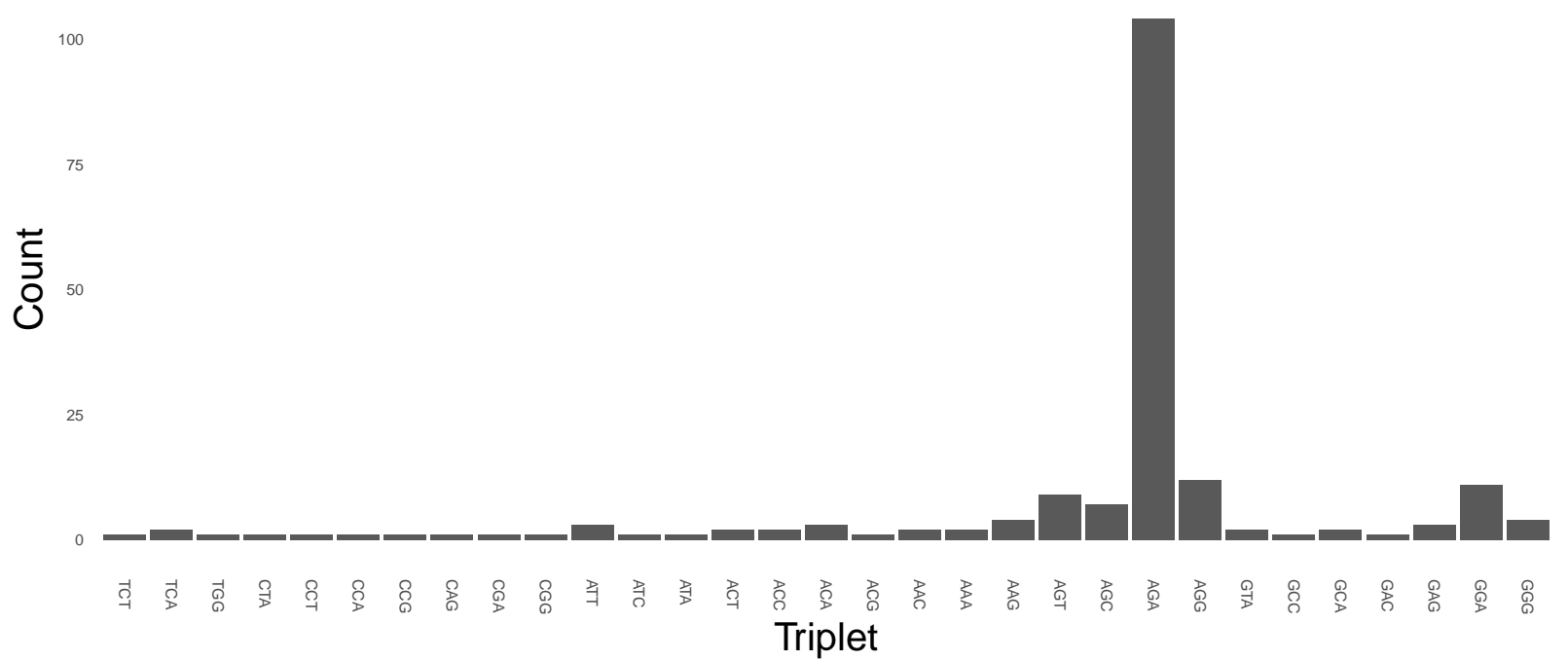
Gene IGHV3-30-5*01_A152G



Gene IGHV3-30-5*01_A152G

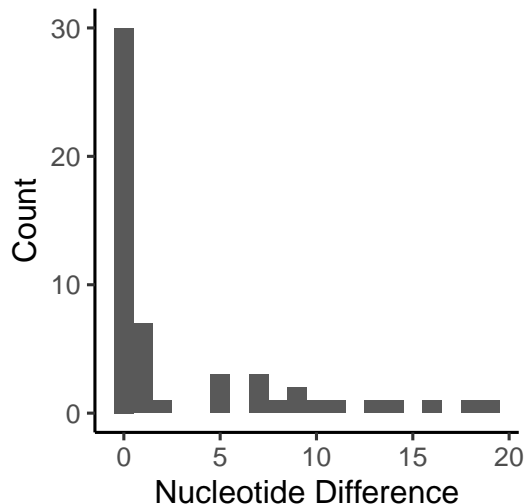


IGHV3-30-5*01_A152G- Final 3 nucleotides as a triplet



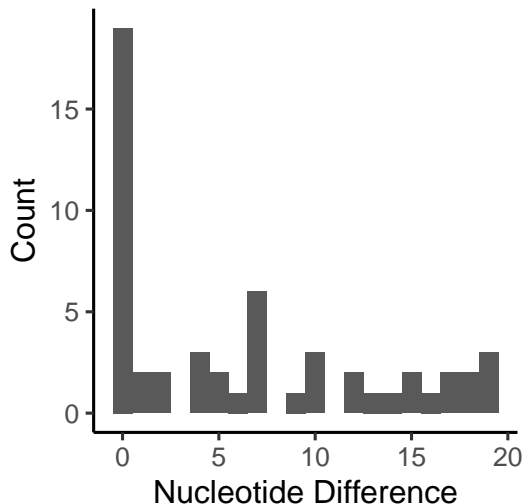
IGHV1-2*04

63 sequences assigned
30 (47.6%) exact matches, in which:
30 unique CDR3
6 unique J



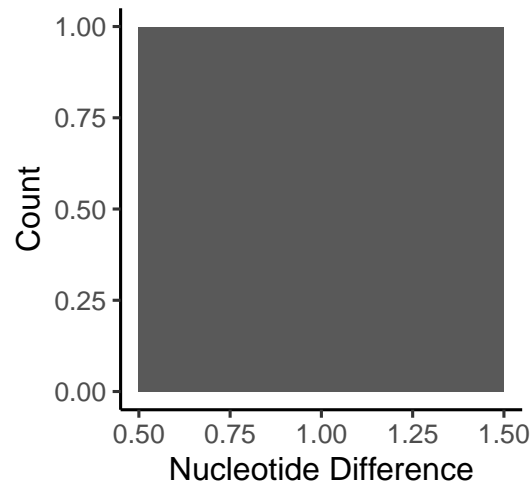
IGHV1-8*01

62 sequences assigned
19 (30.6%) exact matches, in which:
19 unique CDR3
4 unique J



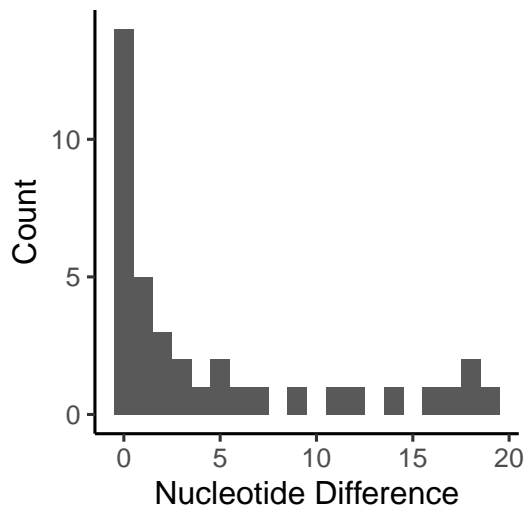
IGHV1-45*02

1 sequences assigned
No exact matches.



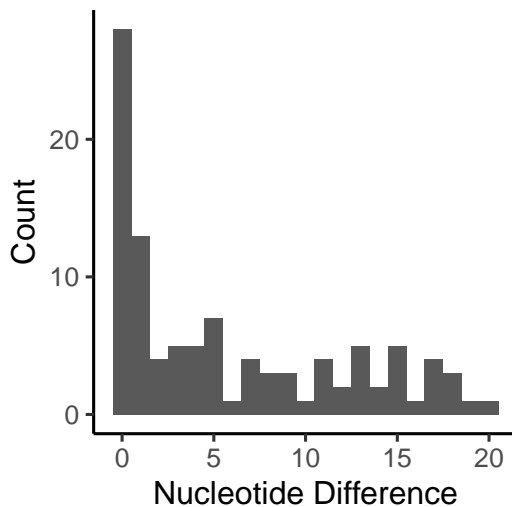
IGHV1-3*01

110 sequences assigned
14 (12.7%) exact matches, in which:
14 unique CDR3
4 unique J



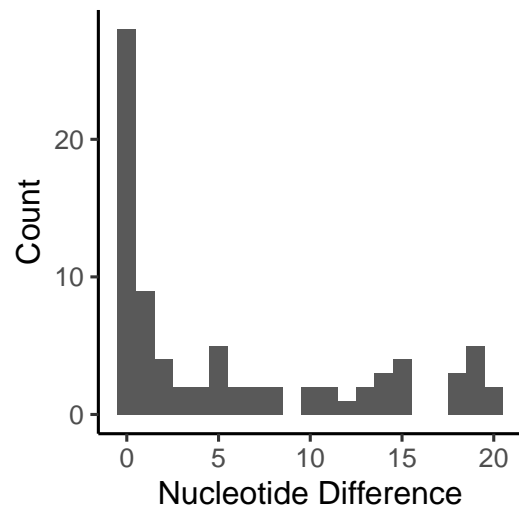
IGHV1-18*01

151 sequences assigned
28 (18.5%) exact matches, in which:
28 unique CDR3
4 unique J



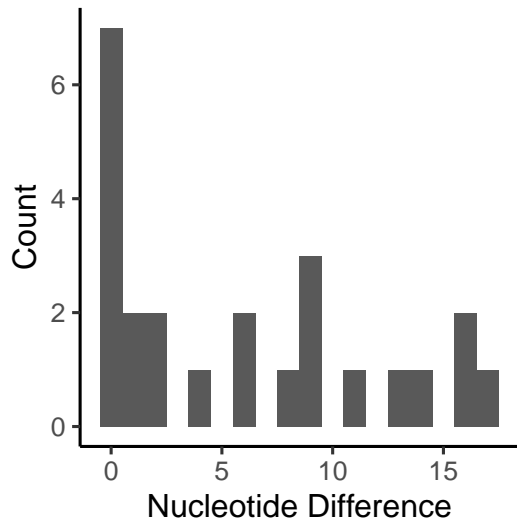
IGHV1-46*01

133 sequences assigned
28 (21.1%) exact matches, in which:
28 unique CDR3
5 unique J



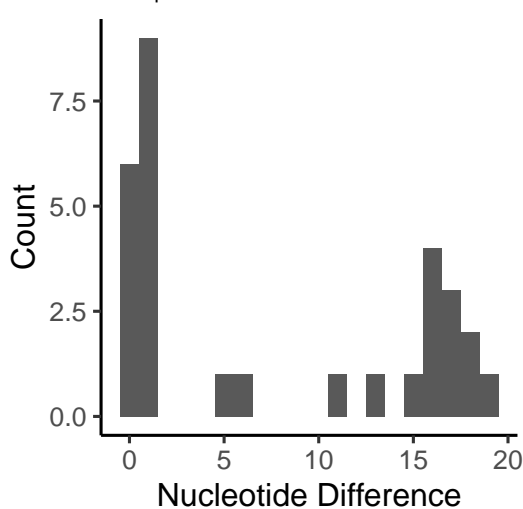
IGHV1-3*05

31 sequences assigned
7 (22.6%) exact matches, in which:
7 unique CDR3
4 unique J



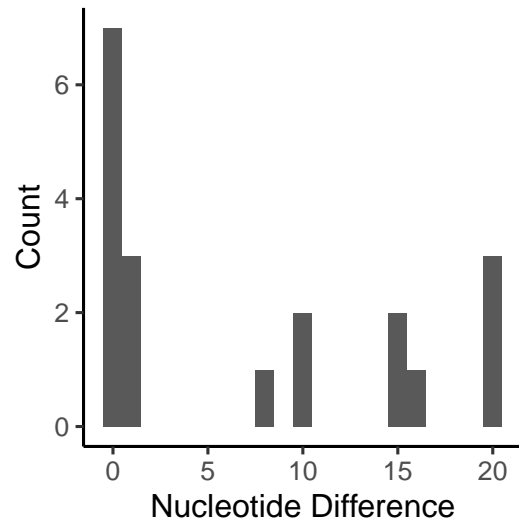
IGHV1-24*01

49 sequences assigned
6 (12.2%) exact matches, in which:
6 unique CDR3
2 unique J



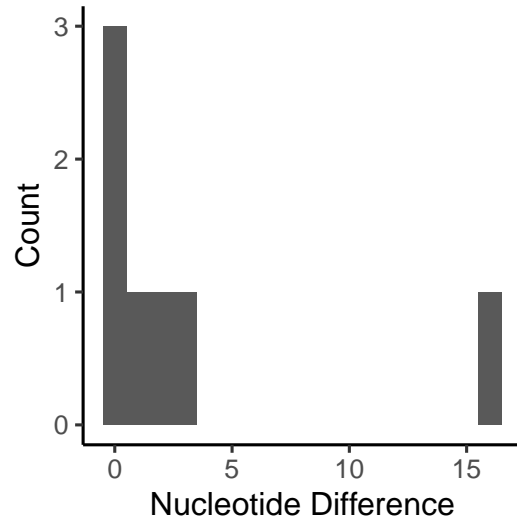
IGHV1-58*01

21 sequences assigned
7 (33.3%) exact matches, in which:
7 unique CDR3
3 unique J



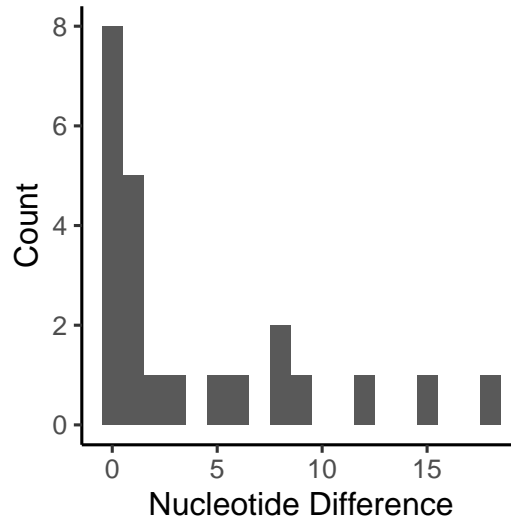
IGHV1-69-2*01

16 sequences assigned
3 (18.8%) exact matches, in which:
3 unique CDR3
1 unique J



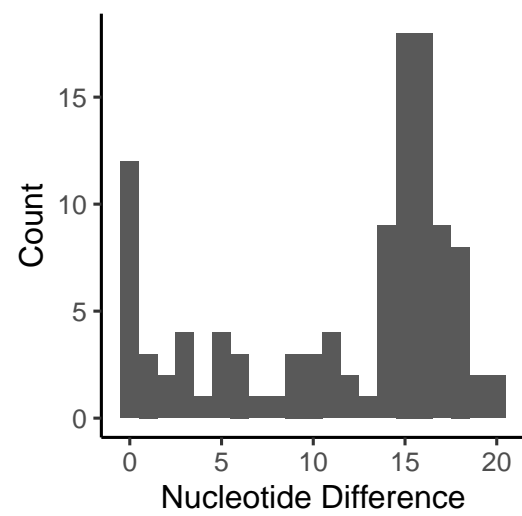
IGHV2-26*01

25 sequences assigned
8 (32%) exact matches, in which:
8 unique CDR3
3 unique J



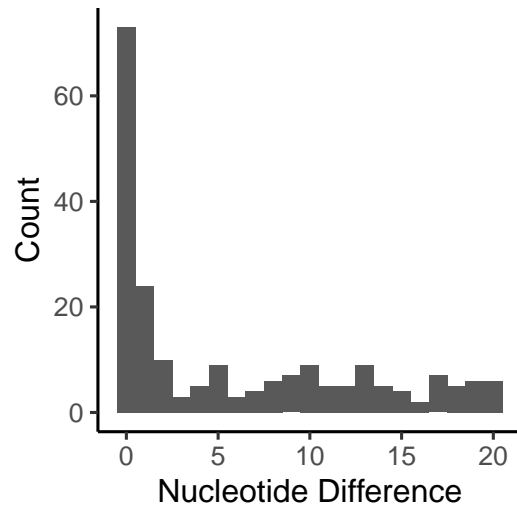
IGHV3-7*03

150 sequences assigned
12 (8%) exact matches, in which:
12 unique CDR3
5 unique J



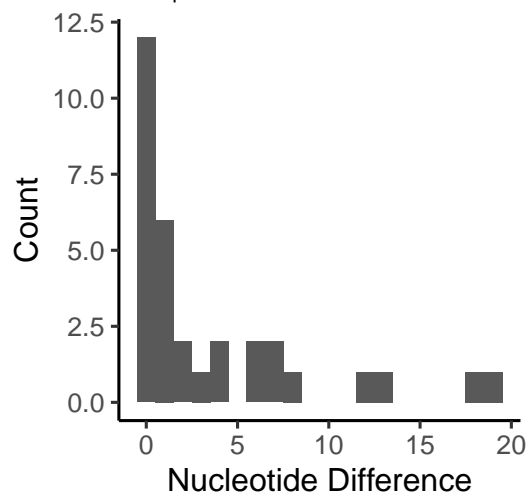
IGHV1-69*06

289 sequences assigned
73 (25.3%) exact matches, in which:
73 unique CDR3
6 unique J



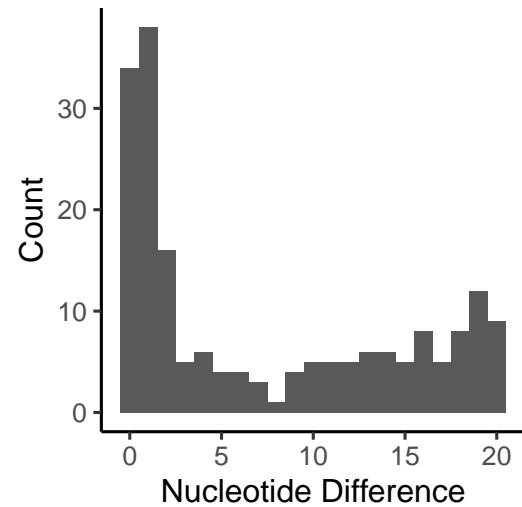
IGHV2-70*01

34 sequences assigned
12 (35.3%) exact matches, in which:
11 unique CDR3
5 unique J



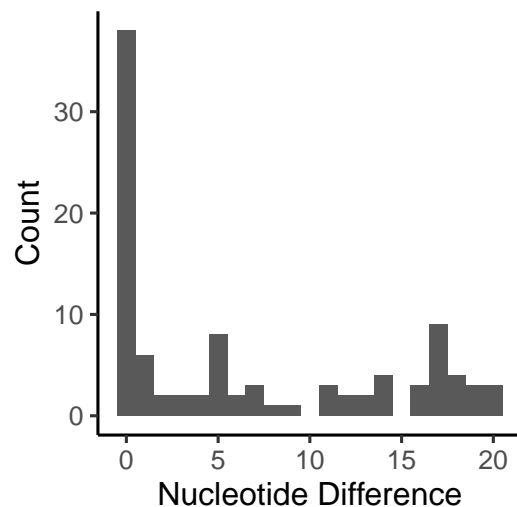
IGHV3-9*01

277 sequences assigned
34 (12.3%) exact matches, in which:
34 unique CDR3
6 unique J



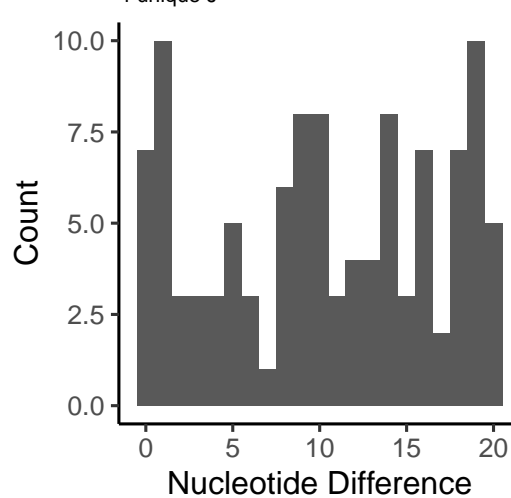
IGHV2-5*02

132 sequences assigned
38 (28.8%) exact matches, in which:
38 unique CDR3
6 unique J



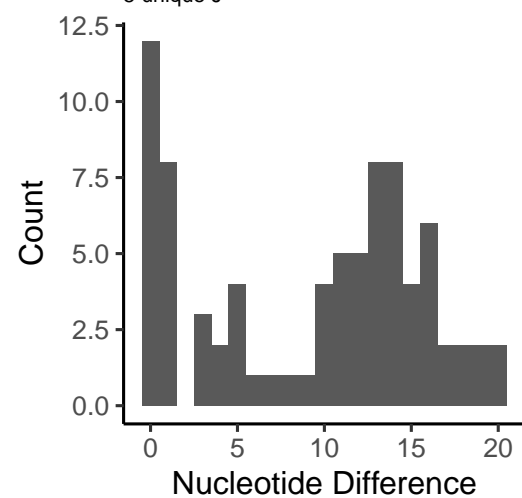
IGHV3-7*01

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



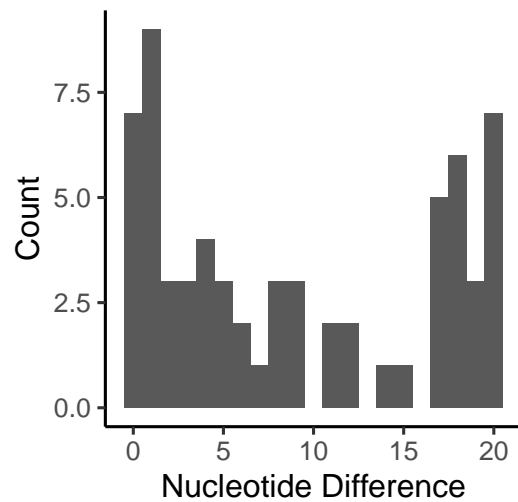
IGHV3-11*01

104 sequences assigned
12 (11.5%) exact matches, in which:
12 unique CDR3
5 unique J



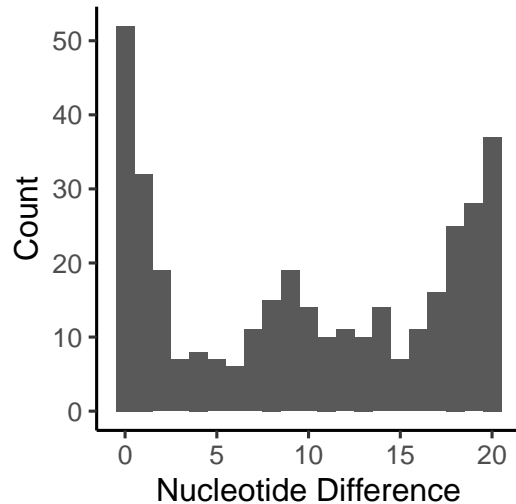
IGHV3-11*06

96 sequences assigned
7 (7.3%) exact matches, in which:
7 unique CDR3
4 unique J



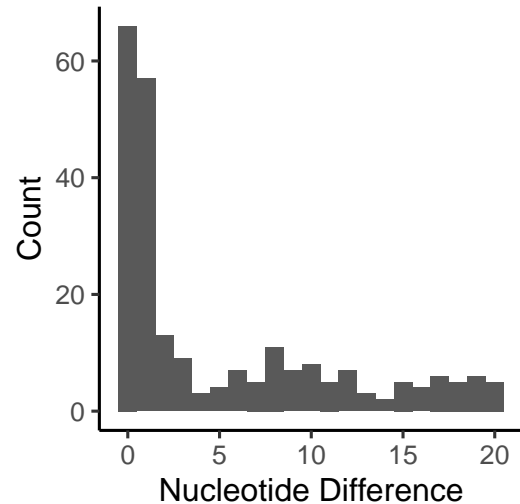
IGHV3-15*07

543 sequences assigned
52 (9.6%) exact matches, in which:
51 unique CDR3
6 unique J



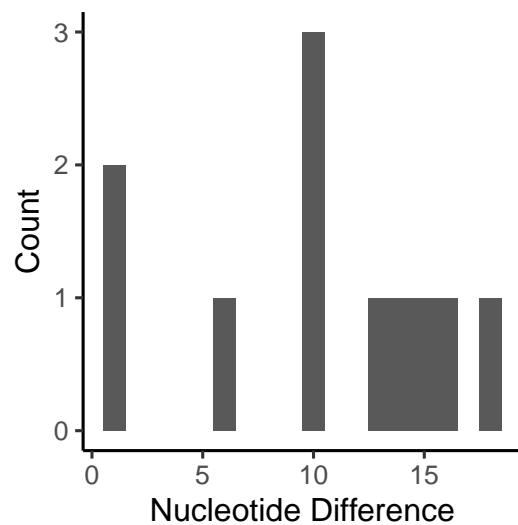
IGHV3-21*01

308 sequences assigned
66 (21.4%) exact matches, in which:
66 unique CDR3
6 unique J



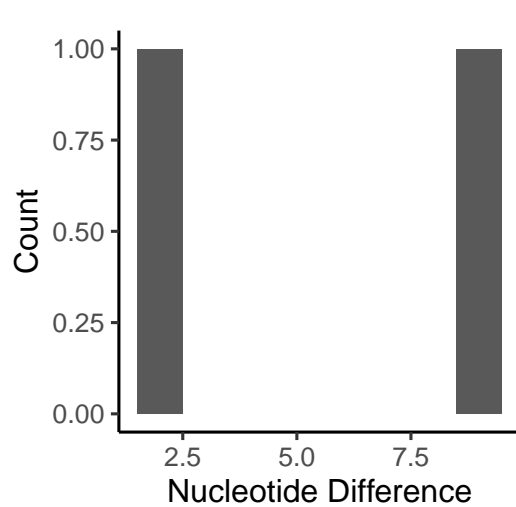
IGHV3-13*01

15 sequences assigned
No exact matches.



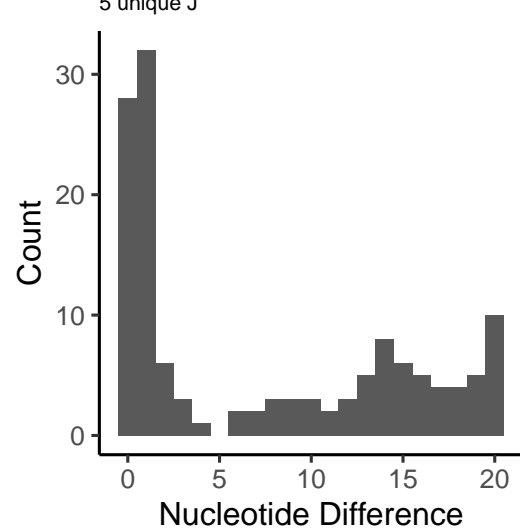
IGHV3-20*01

2 sequences assigned
No exact matches.



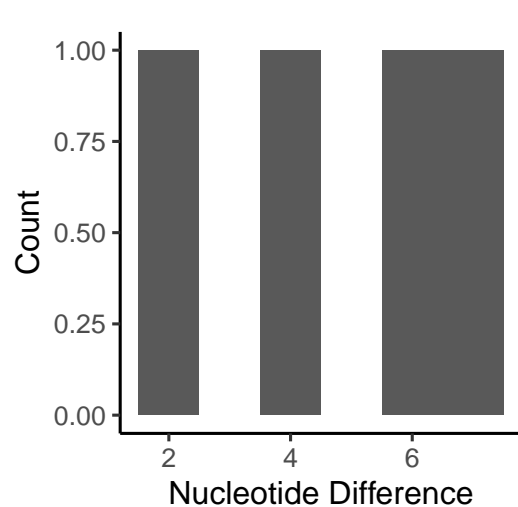
IGHV3-23*04

286 sequences assigned
28 (9.8%) exact matches, in which:
28 unique CDR3
5 unique J



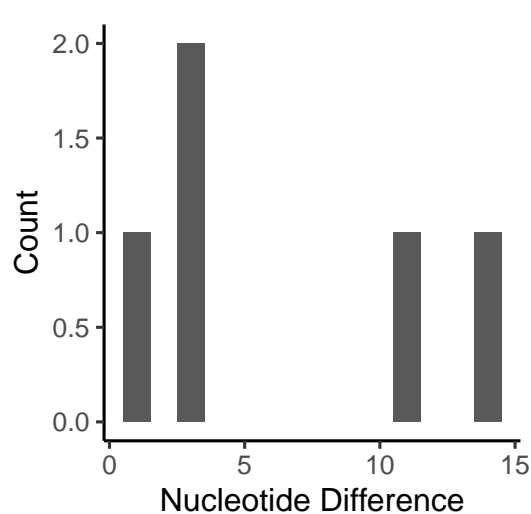
IGHV3-13*05

4 sequences assigned
No exact matches.



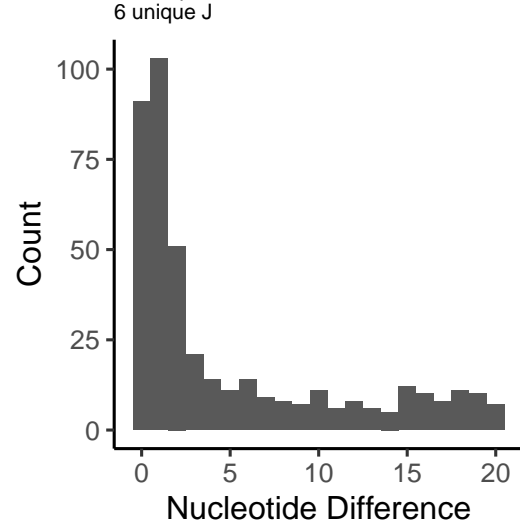
IGHV3-20*04

7 sequences assigned
No exact matches.



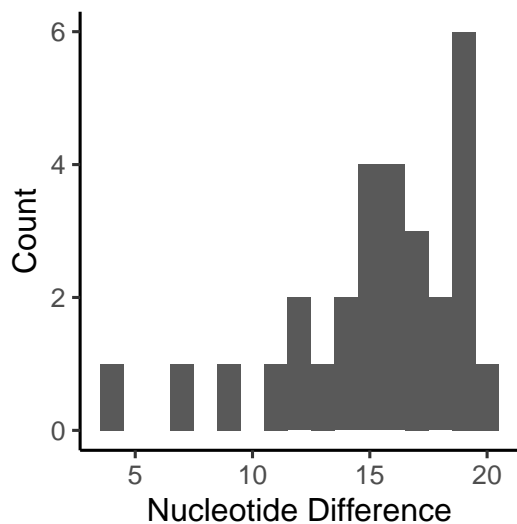
IGHV3-30-3*01

534 sequences assigned
91 (17%) exact matches, in which:
90 unique CDR3
6 unique J



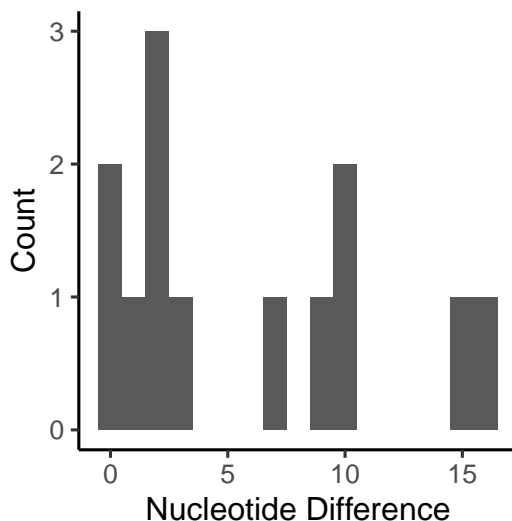
IGHV3–30*04

74 sequences assigned
No exact matches.



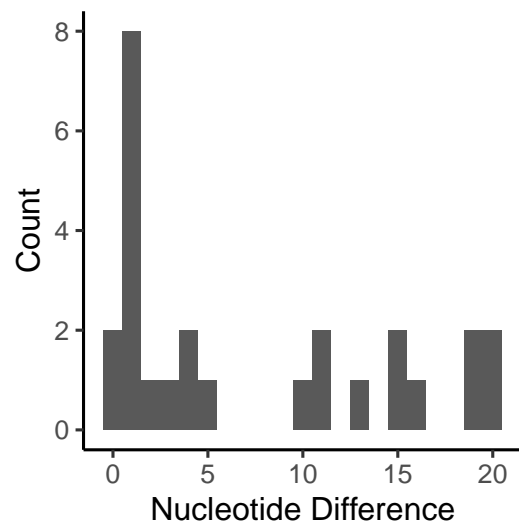
IGHV3–43*01

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



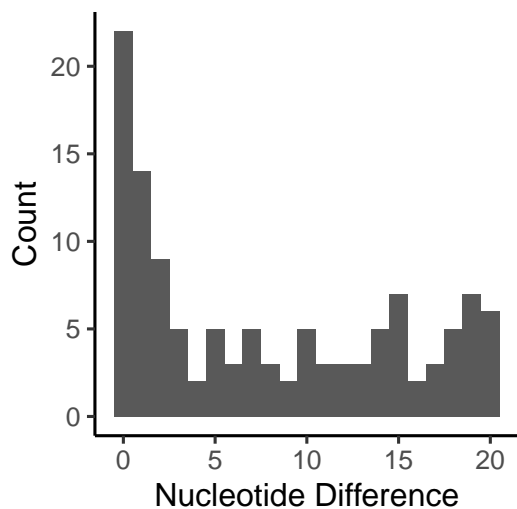
IGHV3–49*04

35 sequences assigned
2 (5.7%) exact matches, in which:
2 unique CDR3
1 unique J



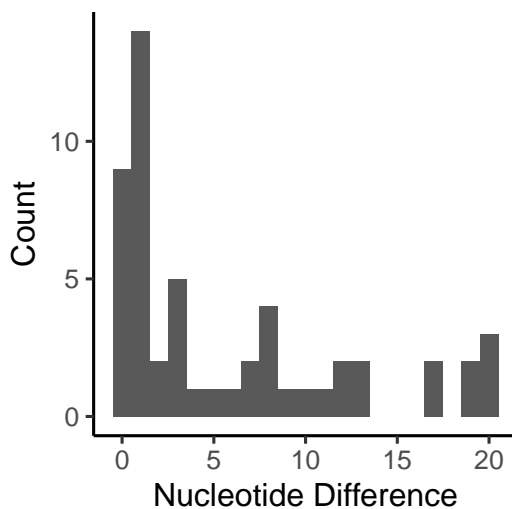
IGHV3–30–5*01_A152G

188 sequences assigned
22 (11.7%) exact matches, in which:
22 unique CDR3
4 unique J



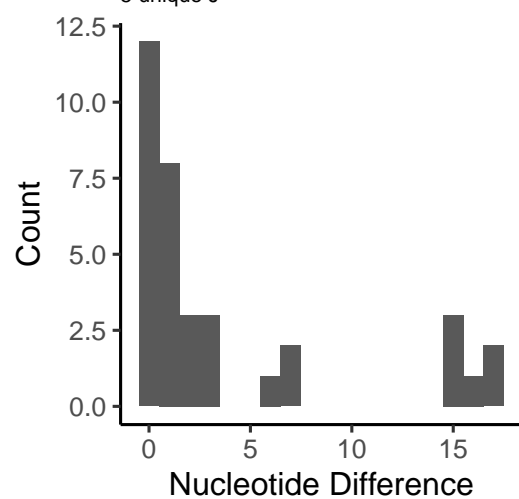
IGHV3–48*02

66 sequences assigned
9 (13.6%) exact matches, in which:
9 unique CDR3
4 unique J



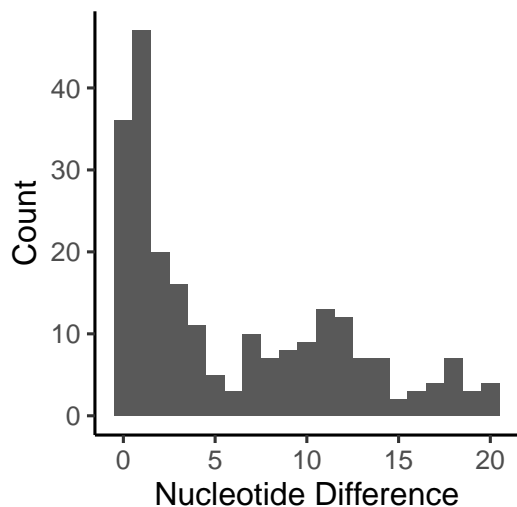
IGHV3–49*05

38 sequences assigned
12 (31.6%) exact matches, in which:
11 unique CDR3
5 unique J



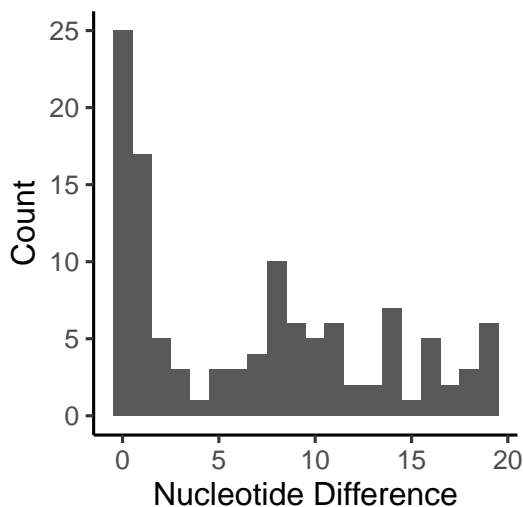
IGHV3–33*01

296 sequences assigned
36 (12.2%) exact matches, in which:
36 unique CDR3
6 unique J



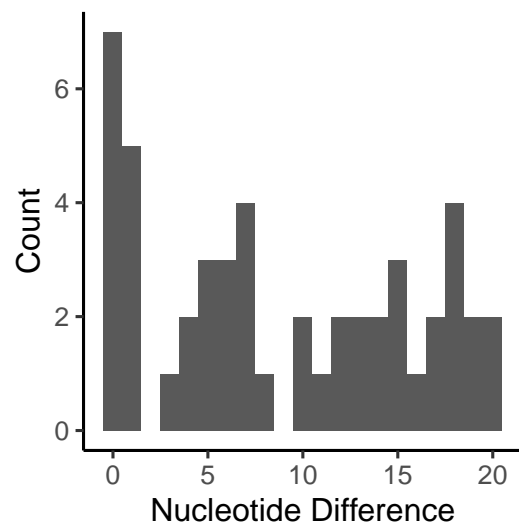
IGHV3–48*03

154 sequences assigned
25 (16.2%) exact matches, in which:
25 unique CDR3
6 unique J



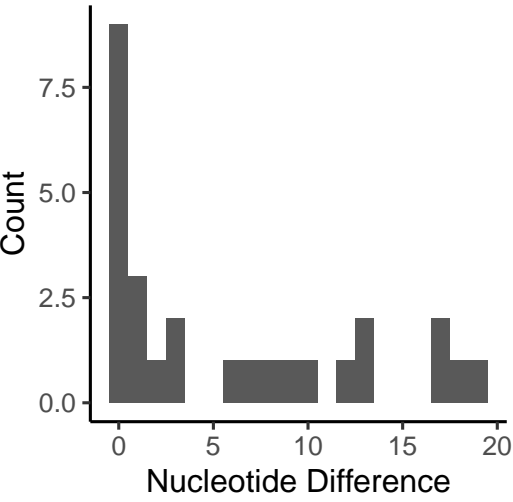
IGHV3–53*01

63 sequences assigned
7 (11.1%) exact matches, in which:
7 unique CDR3
3 unique J



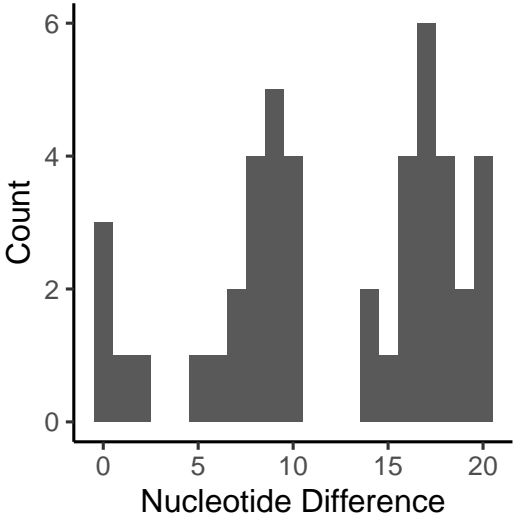
IGHV3-53*02

43 sequences assigned
9 (20.9%) exact matches, in which:
9 unique CDR3
4 unique J



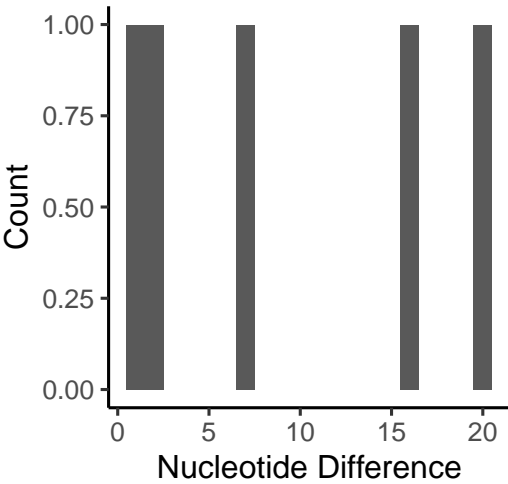
IGHV3-72*01

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



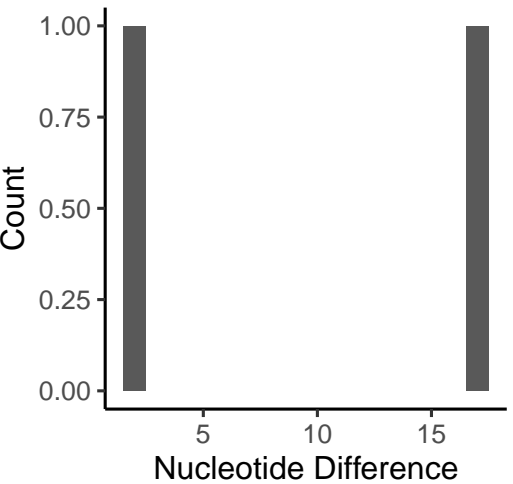
IGHV3-43D*04

8 sequences assigned
No exact matches.



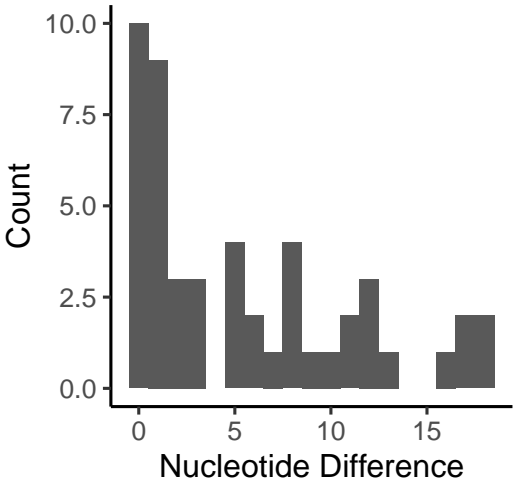
IGHV3-64*02

3 sequences assigned
No exact matches.



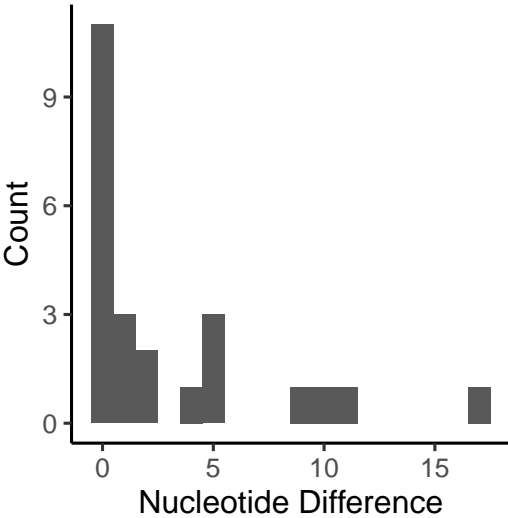
IGHV3-73*02

54 sequences assigned
10 (18.5%) exact matches, in which:
10 unique CDR3
5 unique J



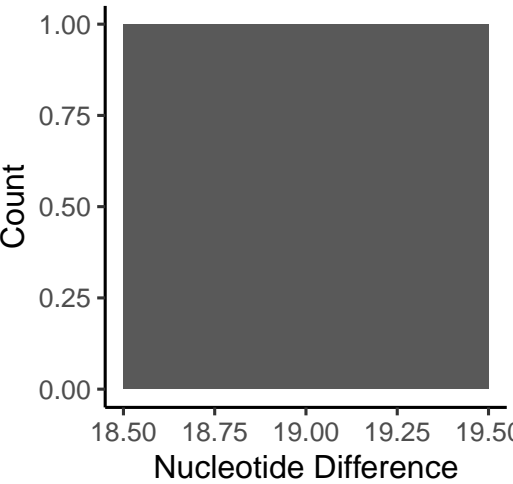
IGHV3-64D*06

39 sequences assigned
11 (28.2%) exact matches, in which:
11 unique CDR3
3 unique J



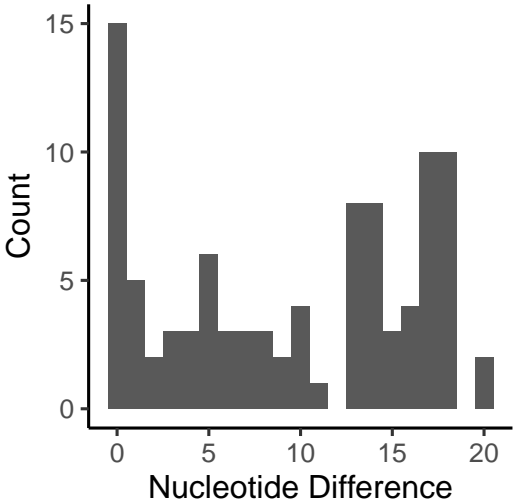
IGHV3-64*04

1 sequences assigned
No exact matches.



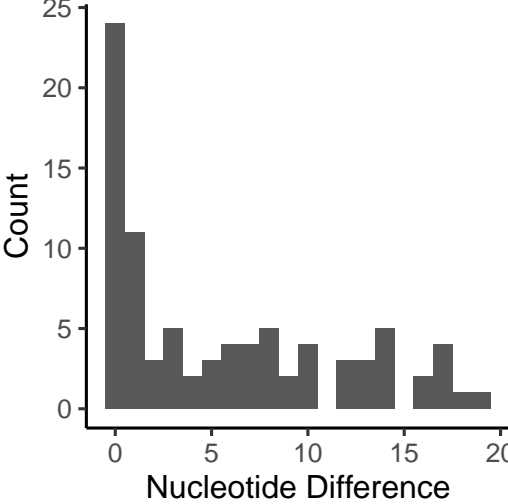
IGHV3-74*01

147 sequences assigned
15 (10.2%) exact matches, in which:
15 unique CDR3
3 unique J



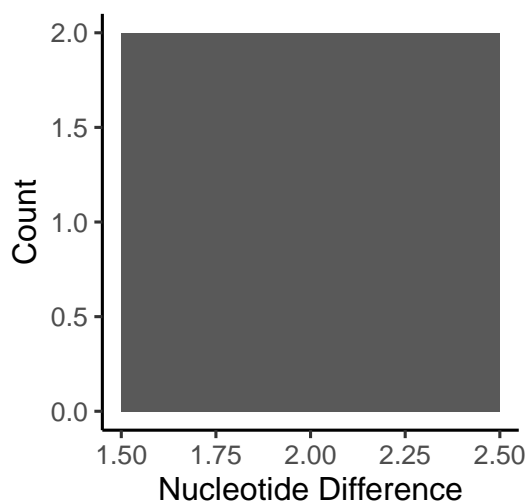
IGHV4-4*02

122 sequences assigned
24 (19.7%) exact matches, in which:
24 unique CDR3
4 unique J



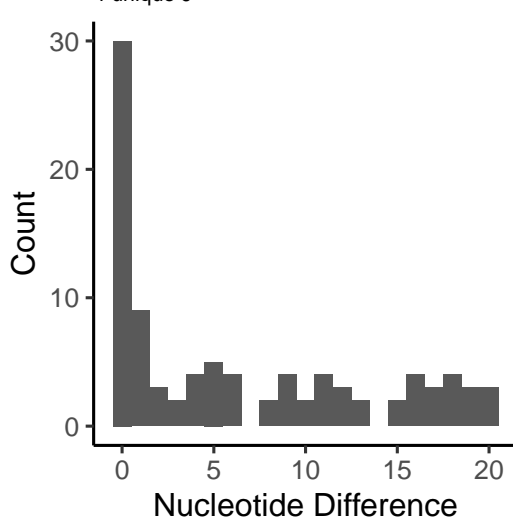
IGHV4-28*04

2 sequences assigned
No exact matches.



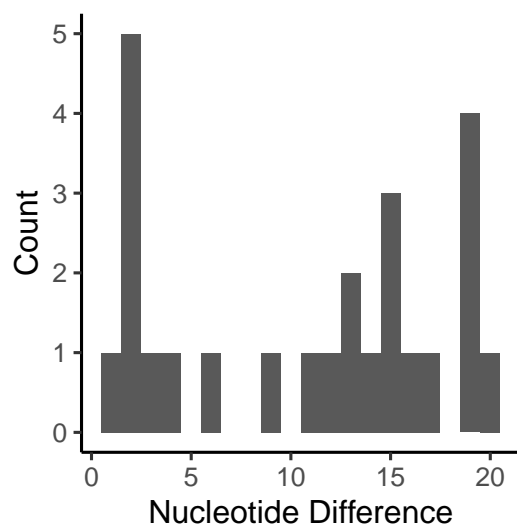
IGHV4-31*03

131 sequences assigned
30 (22.9%) exact matches, in which:
30 unique CDR3
4 unique J



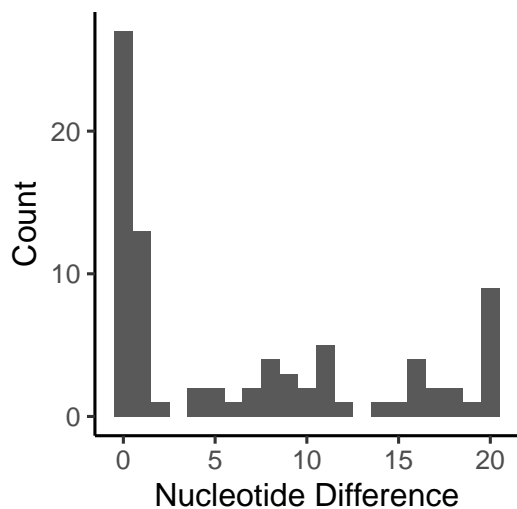
IGHV4-38-2*02

38 sequences assigned
No exact matches.



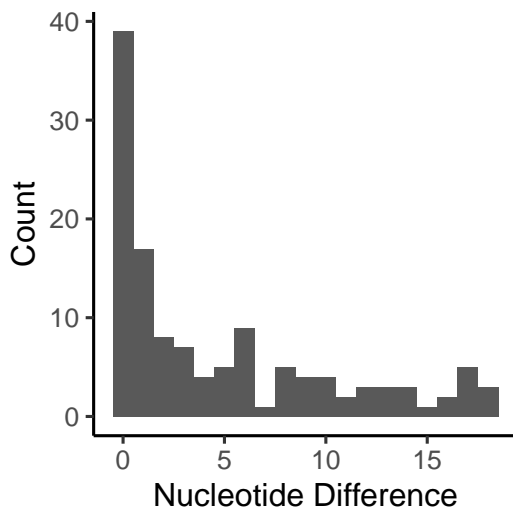
IGHV4-30-4*01

115 sequences assigned
27 (23.5%) exact matches, in which:
27 unique CDR3
5 unique J



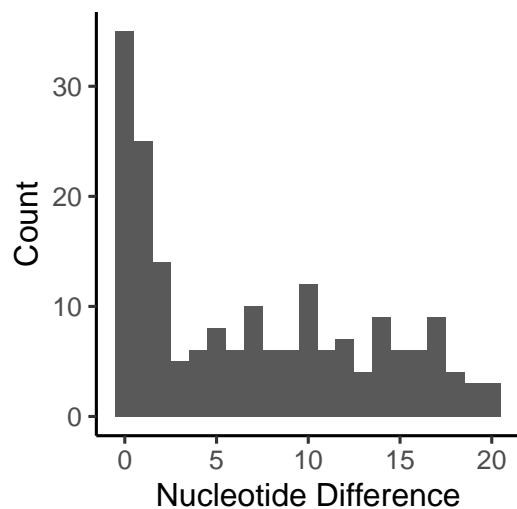
IGHV4-34*01

151 sequences assigned
39 (25.8%) exact matches, in which:
39 unique CDR3
4 unique J



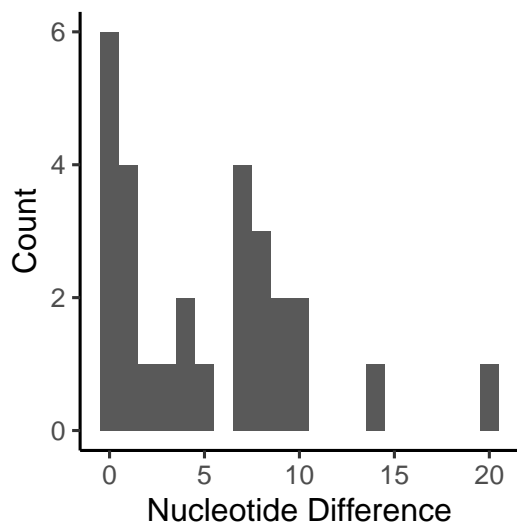
IGHV4-39*01

310 sequences assigned
35 (11.3%) exact matches, in which:
35 unique CDR3
5 unique J



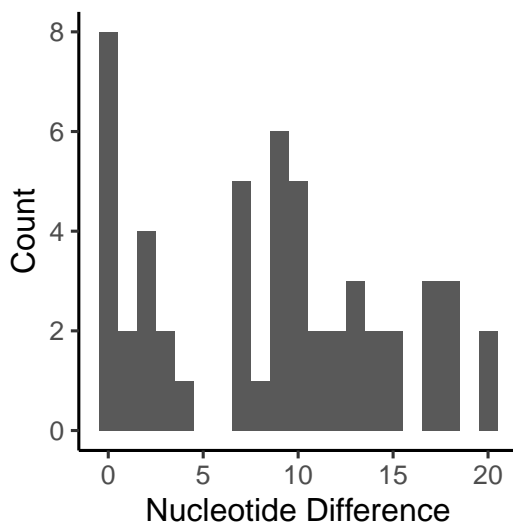
IGHV4-30-2*01

44 sequences assigned
6 (13.6%) exact matches, in which:
6 unique CDR3
3 unique J



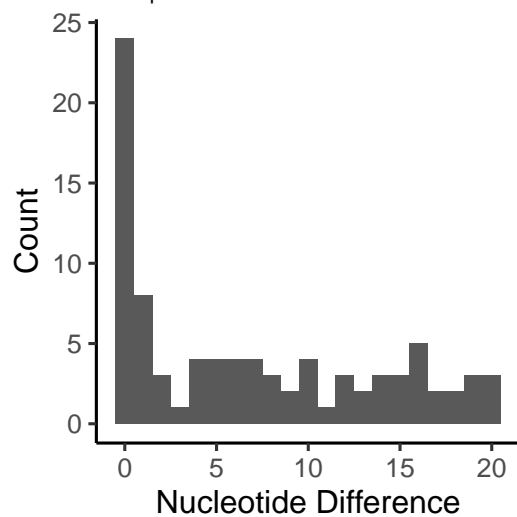
IGHV4-38-2*01

75 sequences assigned
8 (10.7%) exact matches, in which:
8 unique CDR3
4 unique J



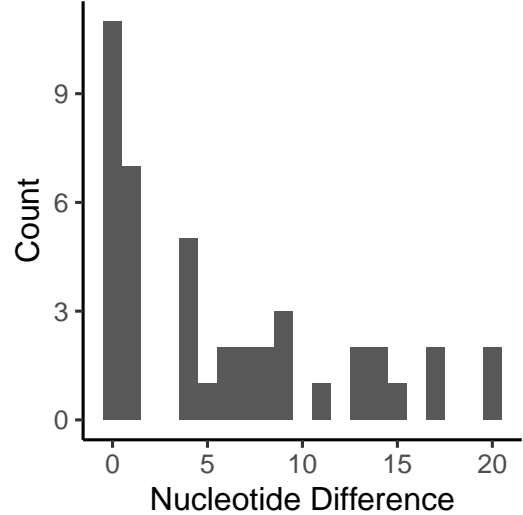
IGHV4-59*01

127 sequences assigned
24 (18.9%) exact matches, in which:
24 unique CDR3
5 unique J



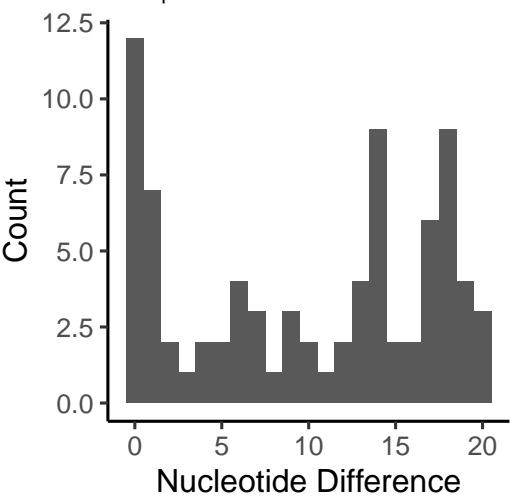
IGHV4-61*01

61 sequences assigned
11 (18%) exact matches, in which:
11 unique CDR3
4 unique J



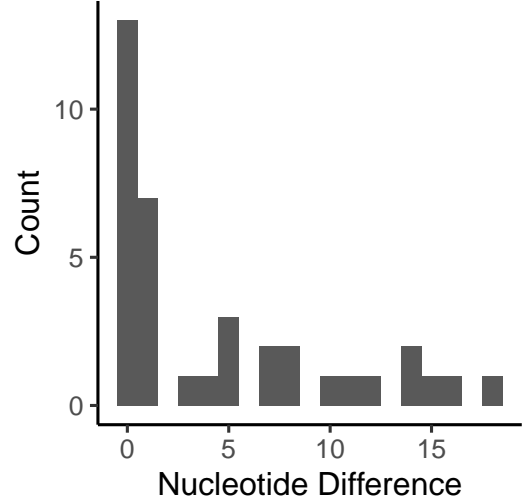
IGHV6-1*01

117 sequences assigned
12 (10.3%) exact matches, in which:
12 unique CDR3
5 unique J



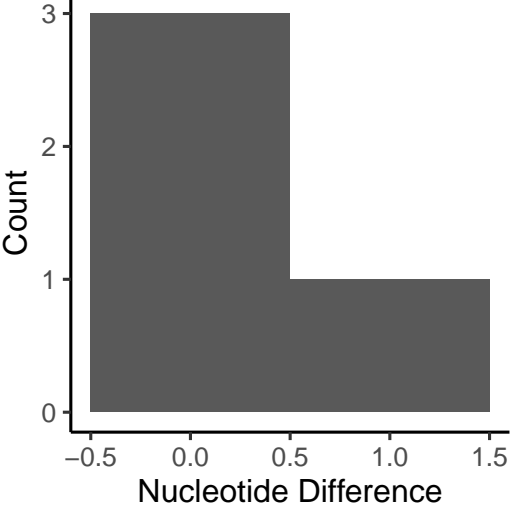
IGHV5-10-1*03

62 sequences assigned
13 (21%) exact matches, in which:
13 unique CDR3
5 unique J



IGHV7-4-1*01

4 sequences assigned
3 (75%) exact matches, in which:
3 unique CDR3
2 unique J



IGHV5-51*01

145 sequences assigned
28 (19.3%) exact matches, in which:
27 unique CDR3
5 unique J

