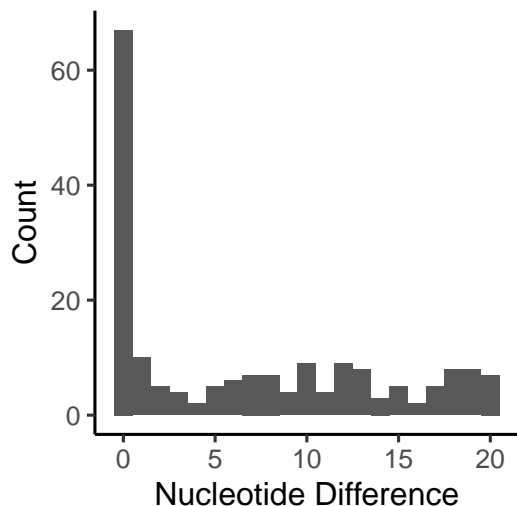


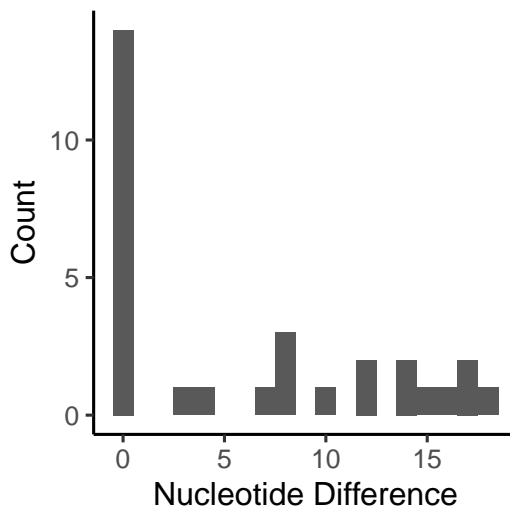
IGHV1-2*02

264 sequences assigned
67 (25.4%) exact matches, in which:
67 unique CDR3
6 unique J



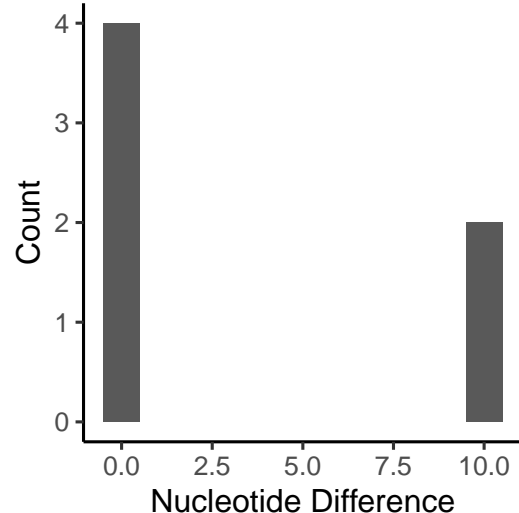
IGHV1-24*01

38 sequences assigned
14 (36.8%) exact matches, in which:
14 unique CDR3
3 unique J



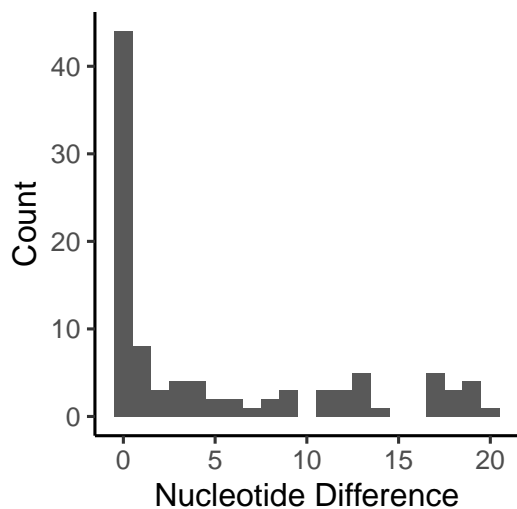
IGHV1-69-2*01

7 sequences assigned
4 (57.1%) exact matches, in which:
4 unique CDR3
3 unique J



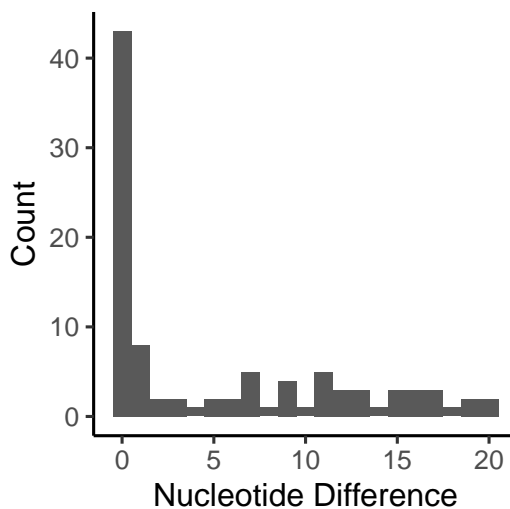
IGHV1-8*01

107 sequences assigned
44 (41.1%) exact matches, in which:
44 unique CDR3
4 unique J



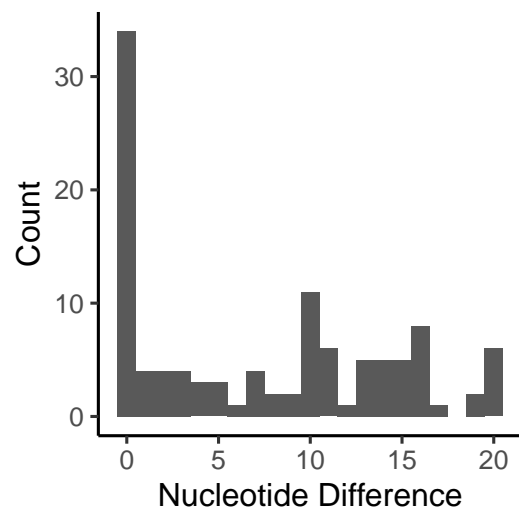
IGHV1-46*01

127 sequences assigned
43 (33.9%) exact matches, in which:
43 unique CDR3
5 unique J



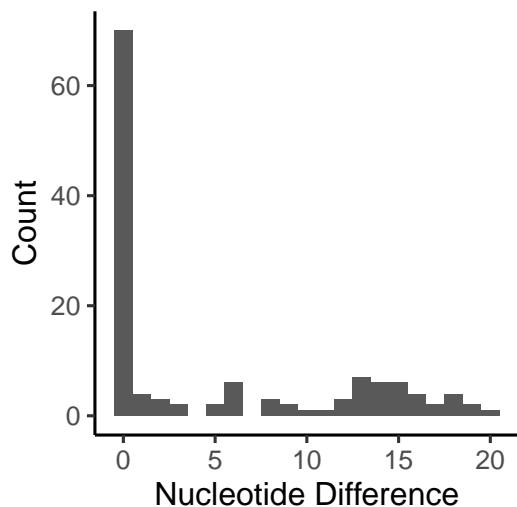
IGHV2-5*01

123 sequences assigned
34 (27.6%) exact matches, in which:
34 unique CDR3
5 unique J



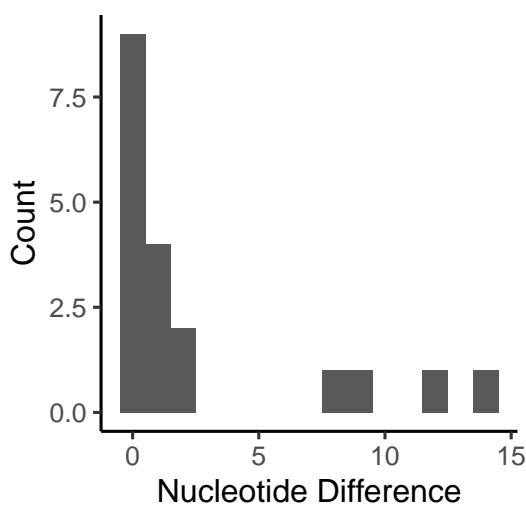
IGHV1-18*01

173 sequences assigned
70 (40.5%) exact matches, in which:
69 unique CDR3
5 unique J



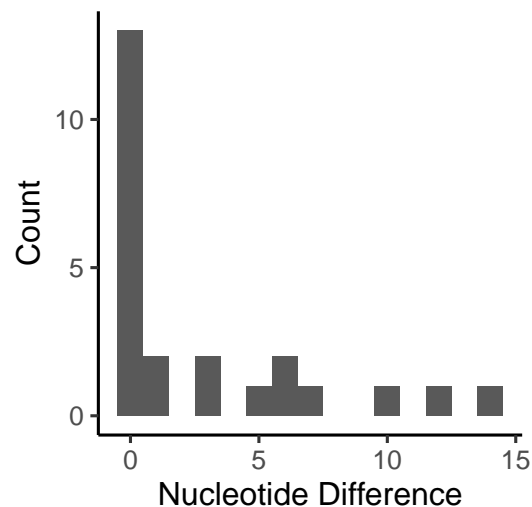
IGHV1-58*01

21 sequences assigned
9 (42.9%) exact matches, in which:
9 unique CDR3
3 unique J



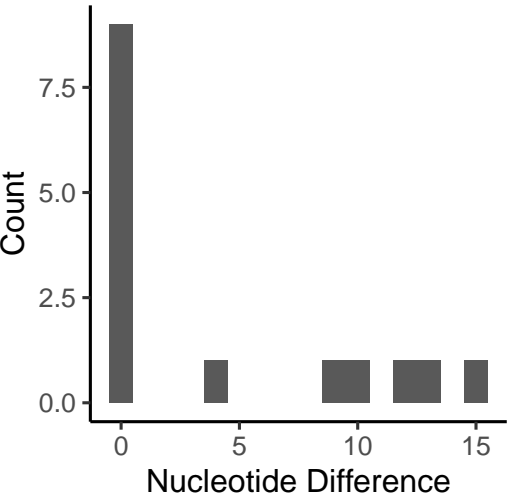
IGHV2-26*01

27 sequences assigned
13 (48.1%) exact matches, in which:
13 unique CDR3
4 unique J



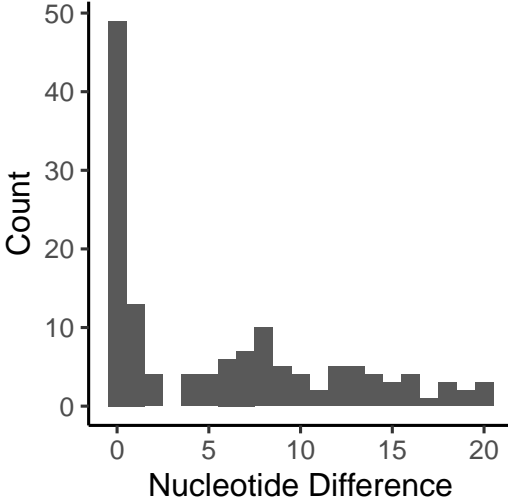
IGHV2-70*01

17 sequences assigned
9 (52.9%) exact matches, in which:
9 unique CDR3
4 unique J



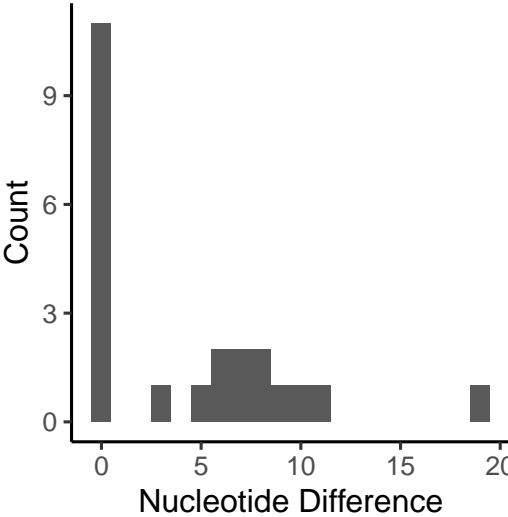
IGHV3-11*01

167 sequences assigned
49 (29.3%) exact matches, in which:
49 unique CDR3
6 unique J



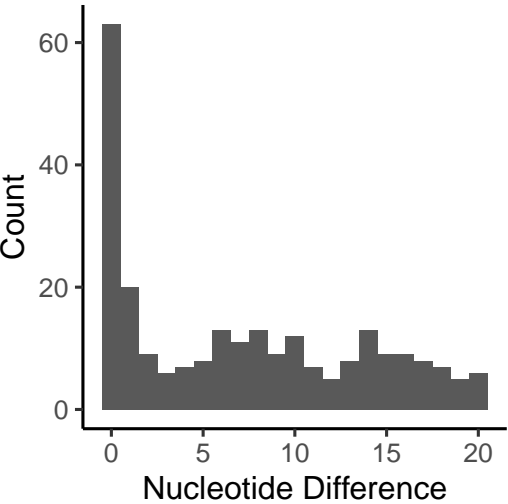
IGHV3-20*01

23 sequences assigned
11 (47.8%) exact matches, in which:
11 unique CDR3
4 unique J



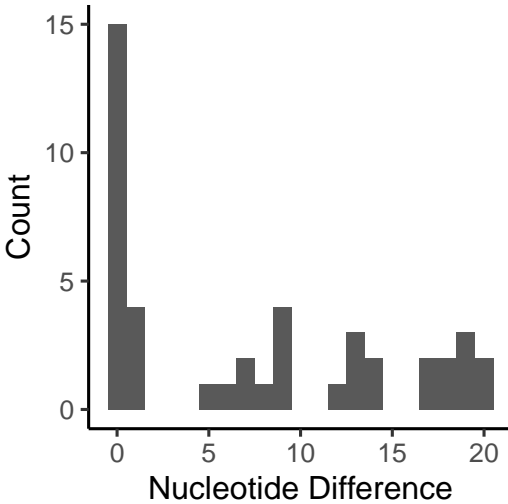
IGHV3-7*01

292 sequences assigned
63 (21.6%) exact matches, in which:
63 unique CDR3
5 unique J



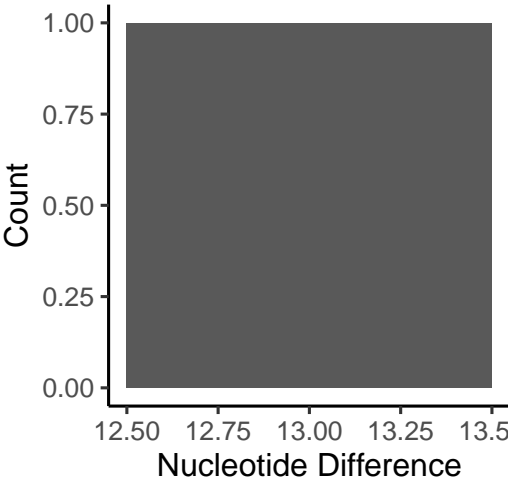
IGHV3-13*01

60 sequences assigned
15 (25%) exact matches, in which:
15 unique CDR3
3 unique J



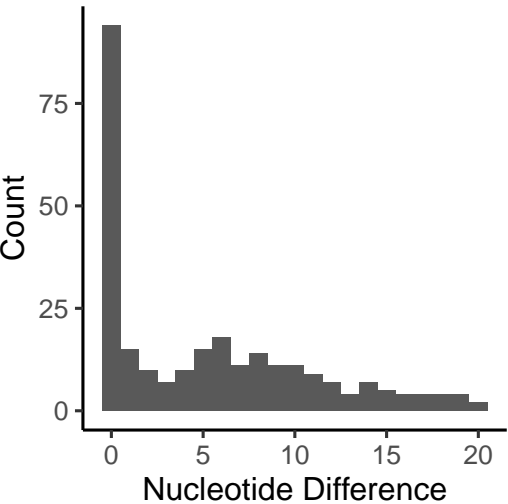
IGHV3-20*04

5 sequences assigned
No exact matches.



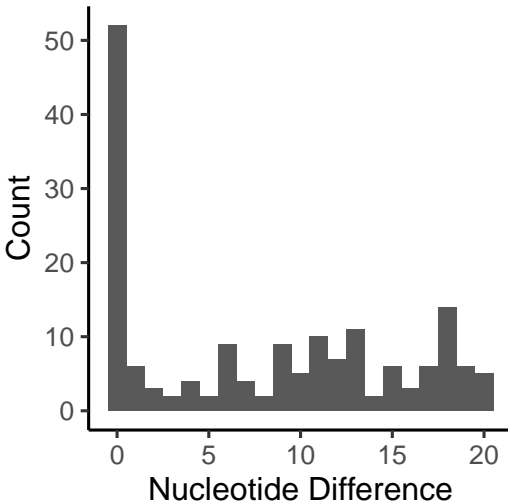
IGHV3-9*01

308 sequences assigned
94 (30.5%) exact matches, in which:
94 unique CDR3
6 unique J



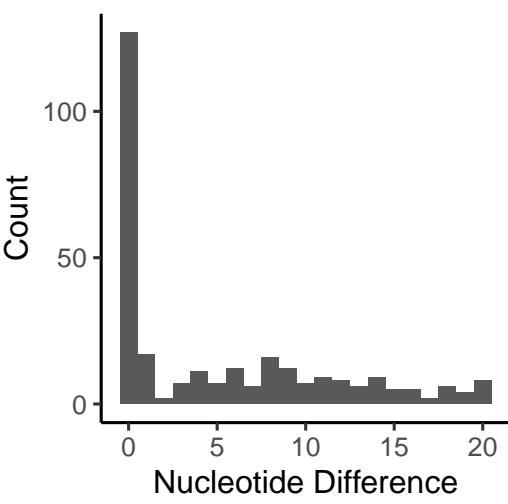
IGHV3-15*01

206 sequences assigned
52 (25.2%) exact matches, in which:
51 unique CDR3
4 unique J



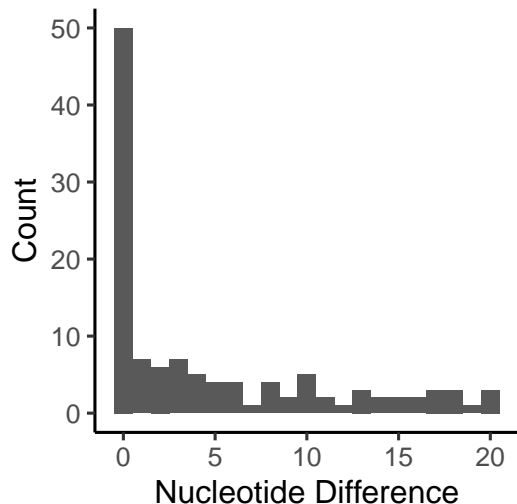
IGHV3-21*01

315 sequences assigned
127 (40.3%) exact matches, in which:
127 unique CDR3
6 unique J



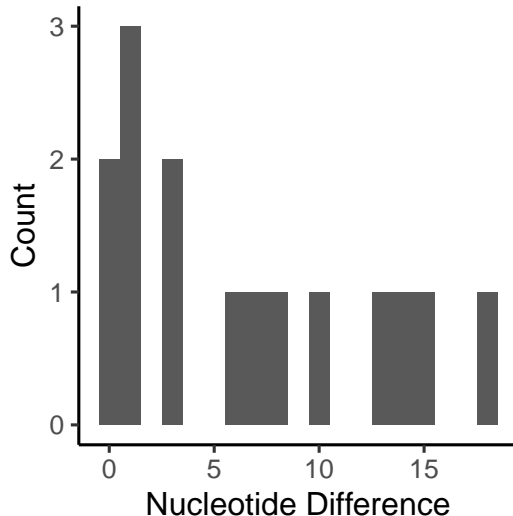
IGHV3-30*01

139 sequences assigned
50 (36%) exact matches, in which:
50 unique CDR3
5 unique J



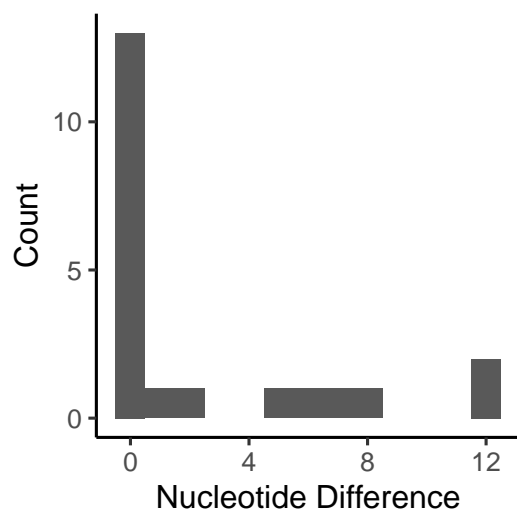
IGHV3-43*01

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



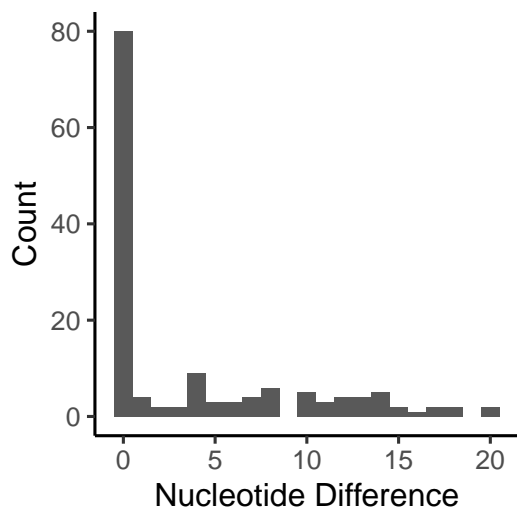
IGHV3-49*05

21 sequences assigned
13 (61.9%) exact matches, in which:
13 unique CDR3
2 unique J



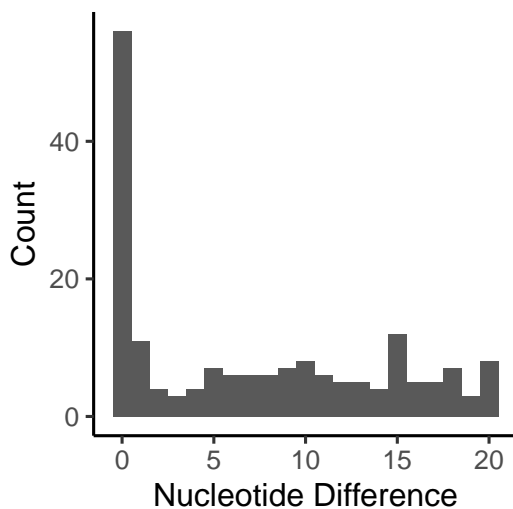
IGHV3-30-3*01

170 sequences assigned
80 (47.1%) exact matches, in which:
80 unique CDR3
6 unique J



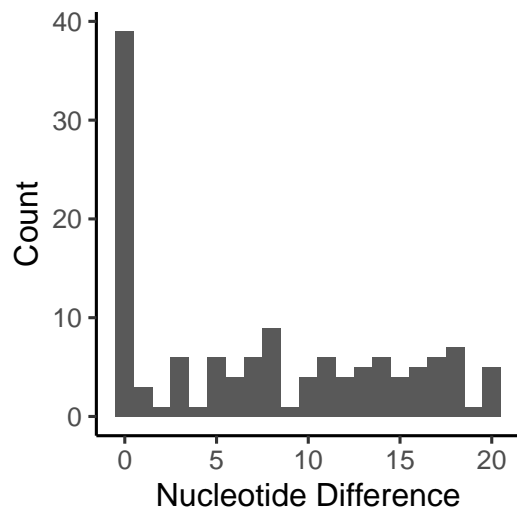
IGHV3-48*02

204 sequences assigned
56 (27.5%) exact matches, in which:
56 unique CDR3
6 unique J



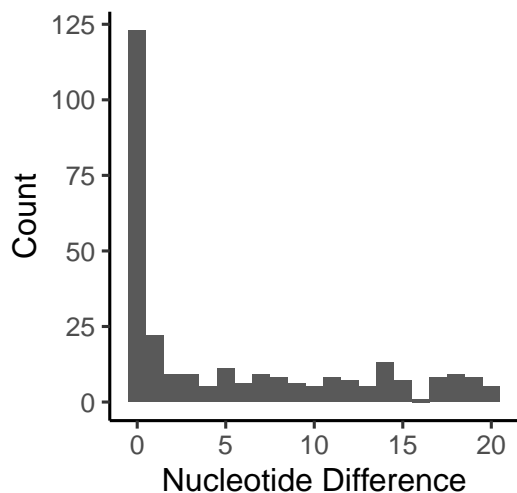
IGHV3-53*01

170 sequences assigned
39 (22.9%) exact matches, in which:
39 unique CDR3
5 unique J



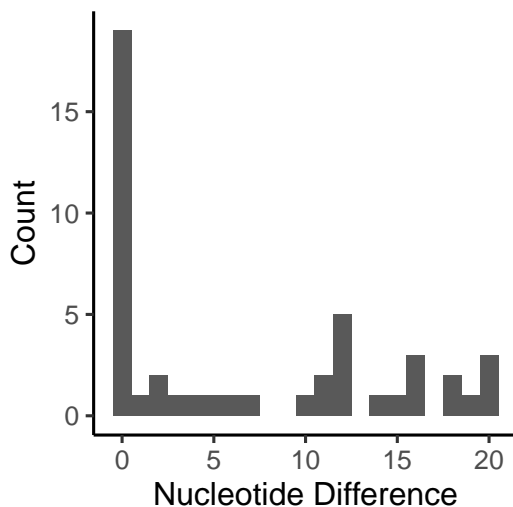
IGHV3-33*01

365 sequences assigned
123 (33.7%) exact matches, in which:
123 unique CDR3
6 unique J



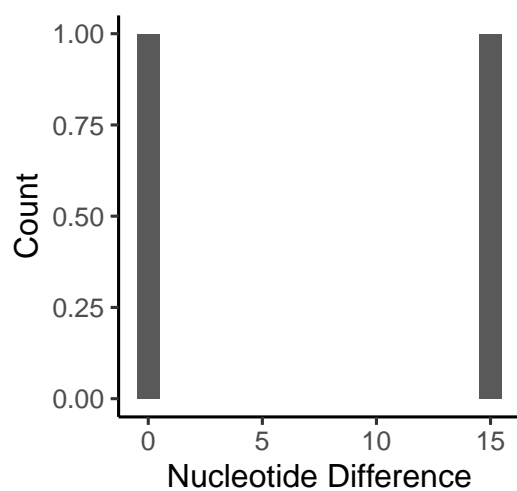
IGHV3-49*03

67 sequences assigned
19 (28.4%) exact matches, in which:
19 unique CDR3
4 unique J



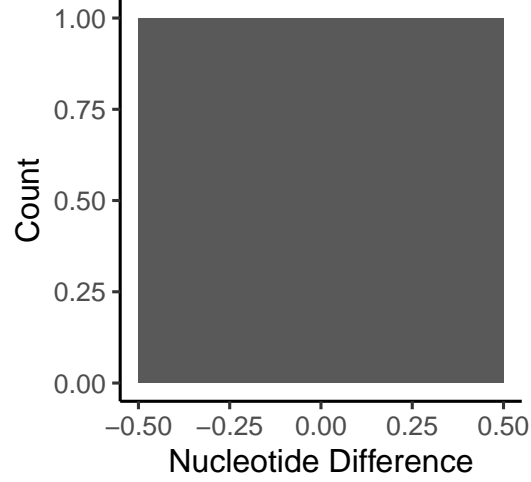
IGHV3-64*02

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



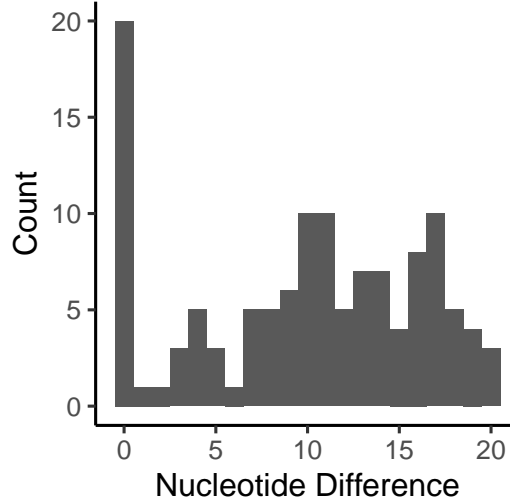
IGHV3-69-1*01

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



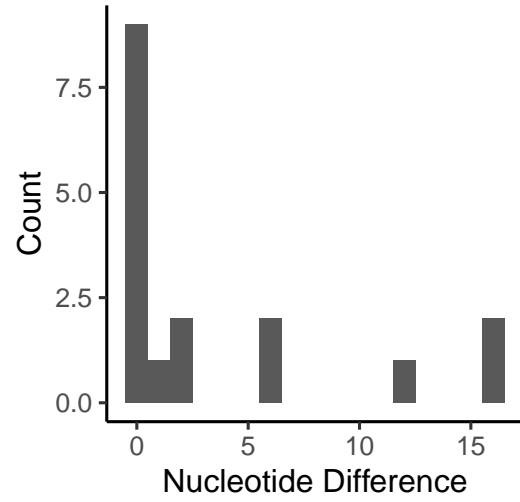
IGHV3-74*01

142 sequences assigned
20 (14.1%) exact matches, in which:
20 unique CDR3
4 unique J



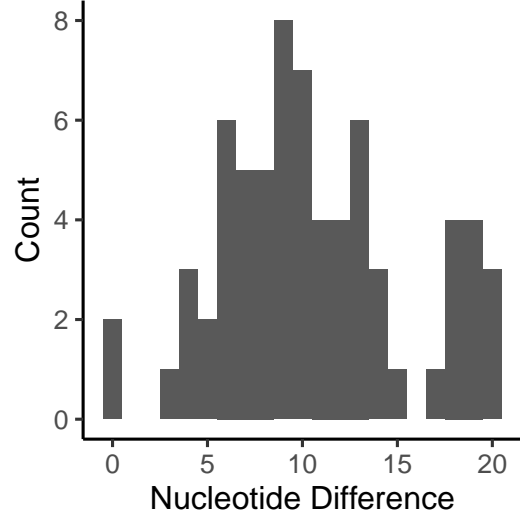
IGHV4-30-2*01

30 sequences assigned
9 (30%) exact matches, in which:
9 unique CDR3
4 unique J



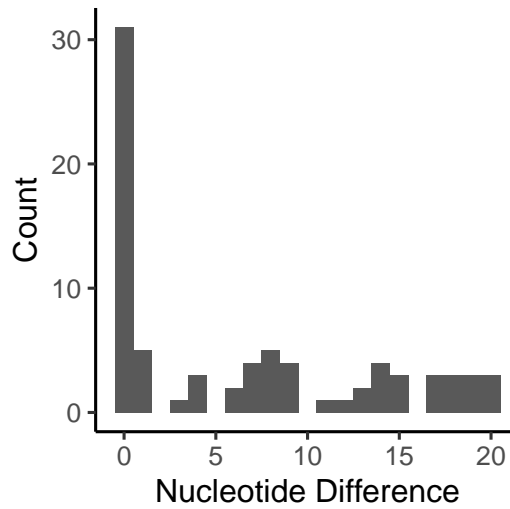
IGHV3-72*01

80 sequences assigned
2 (2.5%) exact matches, in which:
2 unique CDR3
2 unique J



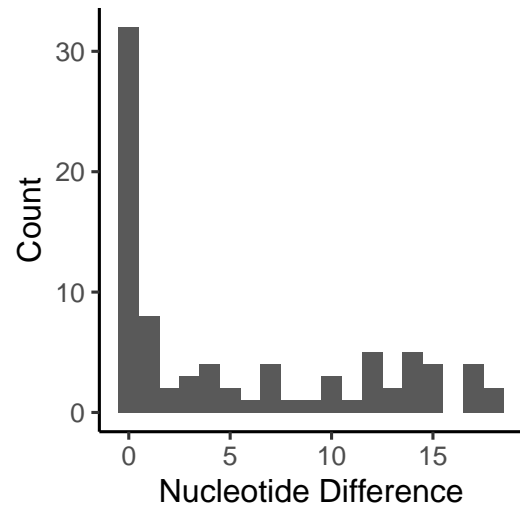
IGHV4-4*07

92 sequences assigned
31 (33.7%) exact matches, in which:
31 unique CDR3
4 unique J



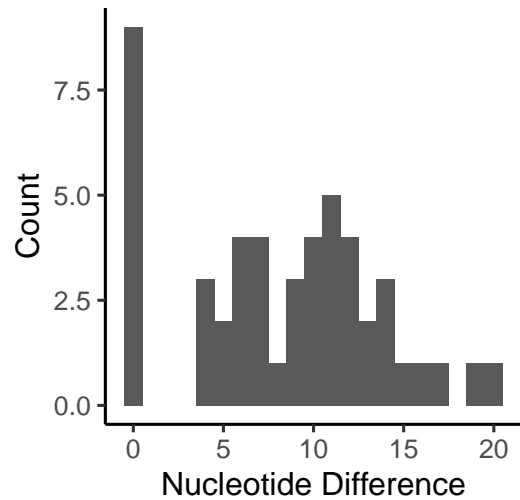
IGHV4-31*03

104 sequences assigned
32 (30.8%) exact matches, in which:
32 unique CDR3
5 unique J



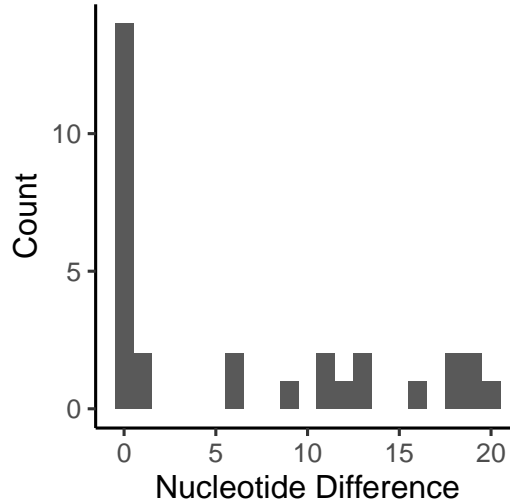
IGHV3-73*02

59 sequences assigned
9 (15.3%) exact matches, in which:
9 unique CDR3
4 unique J



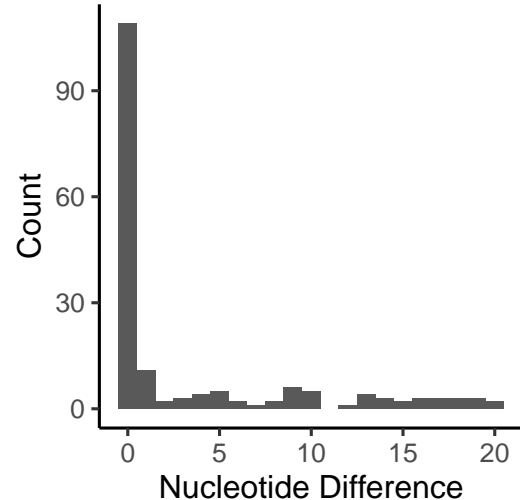
IGHV4-30-4*01

37 sequences assigned
14 (37.8%) exact matches, in which:
13 unique CDR3
4 unique J



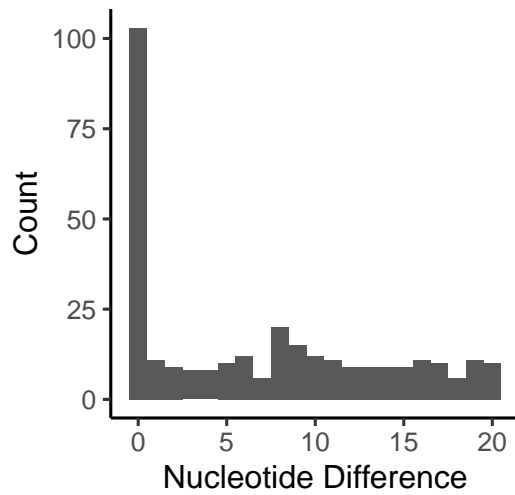
IGHV4-34*01

197 sequences assigned
109 (55.3%) exact matches, in which:
108 unique CDR3
6 unique J



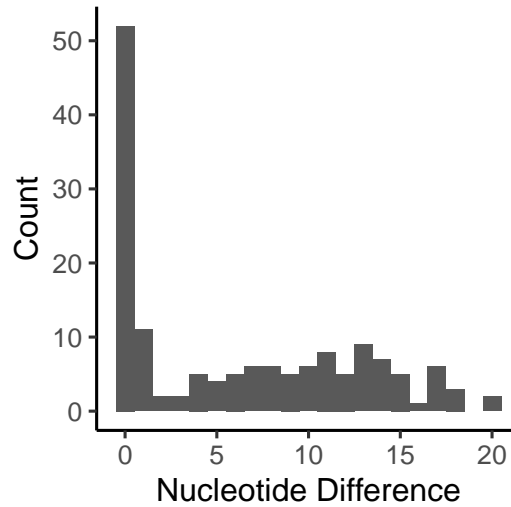
IGHV4–39*01

371 sequences assigned
103 (27.8%) exact matches, in which:
103 unique CDR3
6 unique J



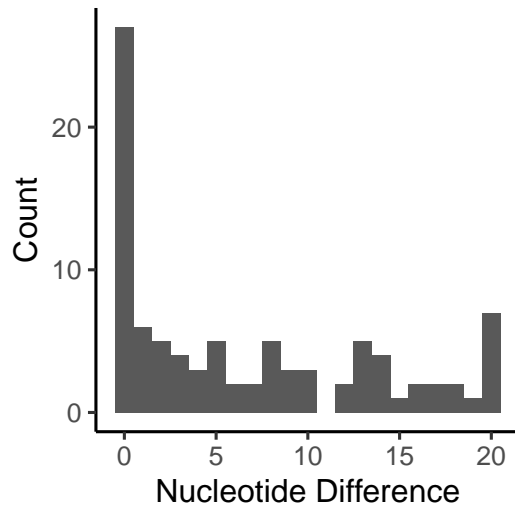
IGHV5–51*01

175 sequences assigned
52 (29.7%) exact matches, in which:
52 unique CDR3
5 unique J



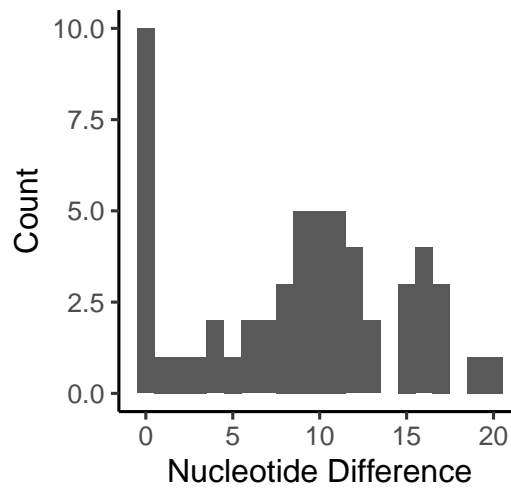
IGHV4–59*01

110 sequences assigned
27 (24.5%) exact matches, in which:
26 unique CDR3
6 unique J



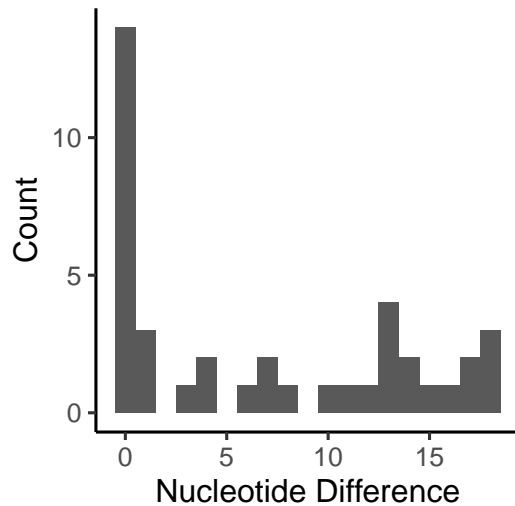
IGHV6–1*01

64 sequences assigned
10 (15.6%) exact matches, in which:
10 unique CDR3
3 unique J



IGHV4–61*01

53 sequences assigned
14 (26.4%) exact matches, in which:
14 unique CDR3
3 unique J





[illegible]