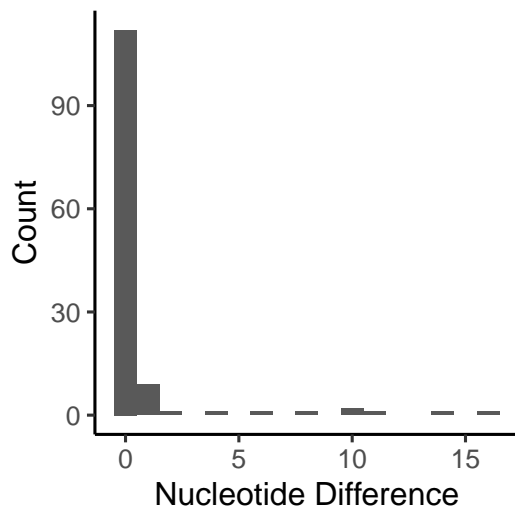


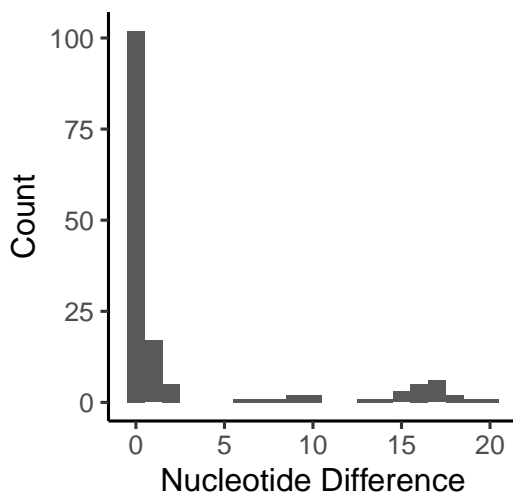
IGHV1-2*04

135 sequences assigned
112 (83%) exact matches, in which:
111 unique CDR3
6 unique J



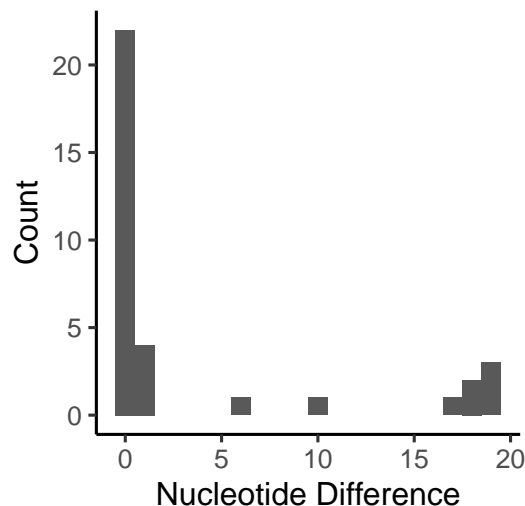
IGHV1-18*01

180 sequences assigned
102 (56.7%) exact matches, in which:
101 unique CDR3
6 unique J



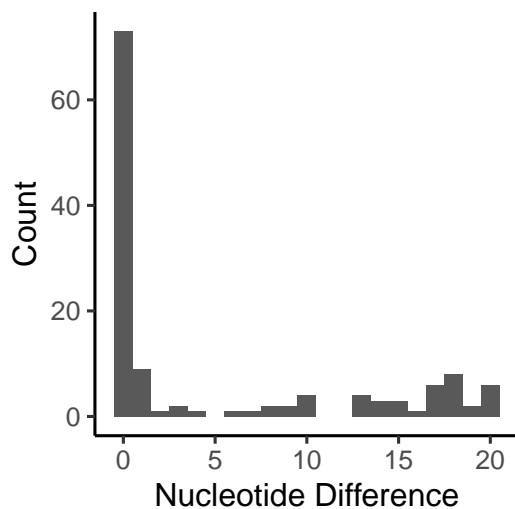
IGHV1-46*01

38 sequences assigned
22 (57.9%) exact matches, in which:
22 unique CDR3
4 unique J



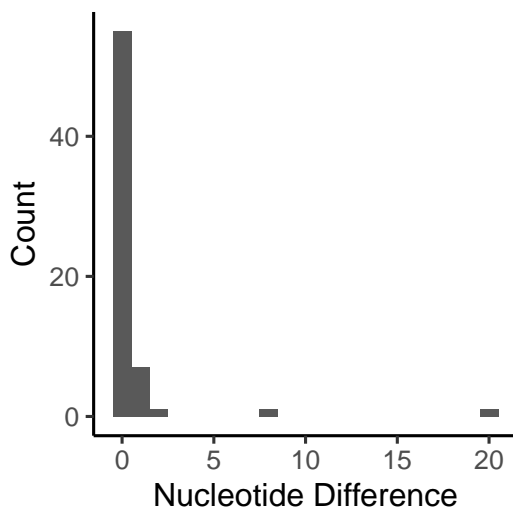
IGHV1-3*01

215 sequences assigned
73 (34%) exact matches, in which:
73 unique CDR3
6 unique J



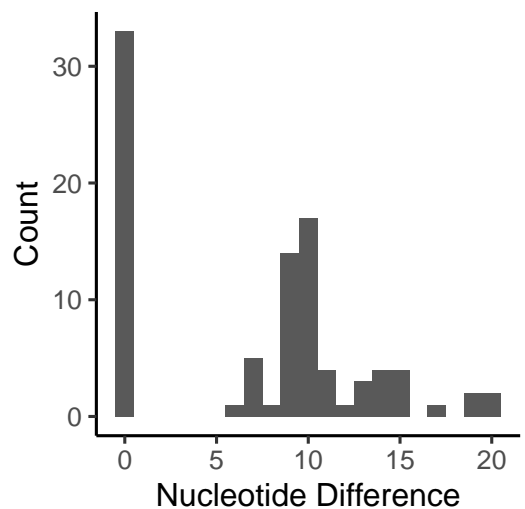
IGHV1-24*01

68 sequences assigned
55 (80.9%) exact matches, in which:
54 unique CDR3
5 unique J



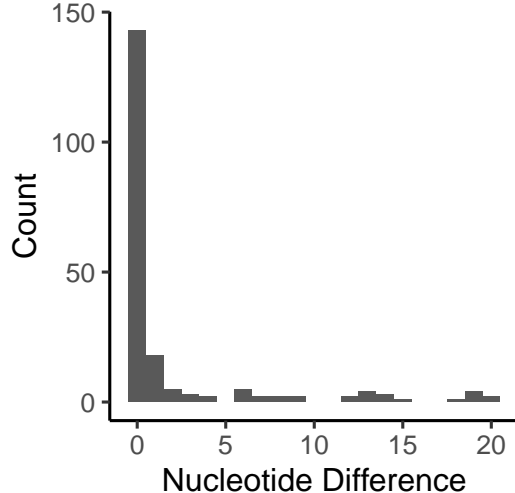
IGHV1-46*03

134 sequences assigned
33 (24.6%) exact matches, in which:
33 unique CDR3
5 unique J



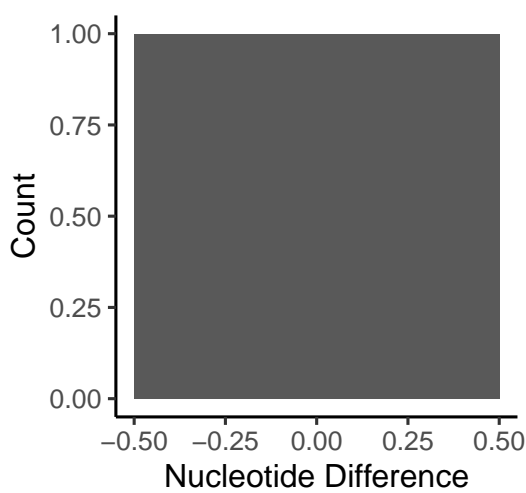
IGHV1-8*01

209 sequences assigned
143 (68.4%) exact matches, in which:
142 unique CDR3
6 unique J



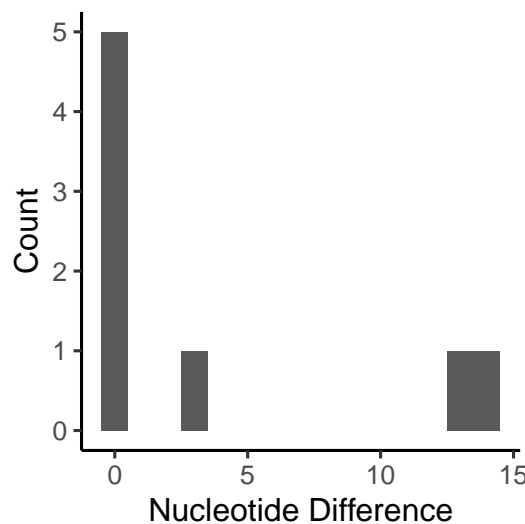
IGHV1-45*02

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

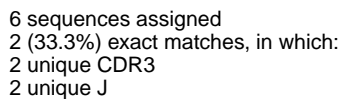


IGHV1-58*01

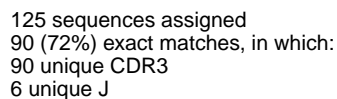
8 sequences assigned
5 (62.5%) exact matches, in which:
5 unique CDR3
4 unique J



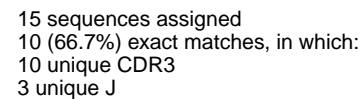
6 sequences assigned
2 (33.3%) exact matches, in which:
2 unique CDR3
2 unique J



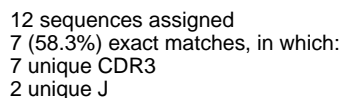
125 sequences assigned
90 (72%) exact matches, in which:
90 unique CDR3
6 unique J



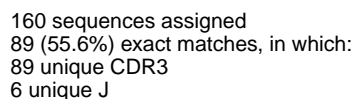
15 sequences assigned
10 (66.7%) exact matches, in which:
10 unique CDR3
3 unique J



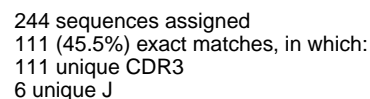
12 sequences assigned
7 (58.3%) exact matches, in which:
7 unique CDR3
2 unique J



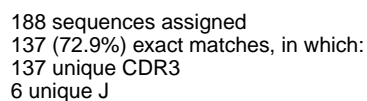
160 sequences assigned
89 (55.6%) exact matches, in which:
89 unique CDR3
6 unique J



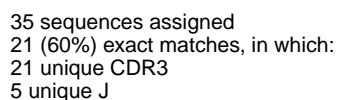
244 sequences assigned
111 (45.5%) exact matches, in which:
111 unique CDR3
6 unique J



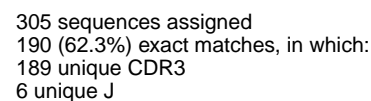
188 sequences assigned
137 (72.9%) exact matches, in which:
137 unique CDR3
6 unique J



35 sequences assigned
21 (60%) exact matches, in which:
21 unique CDR3
5 unique J

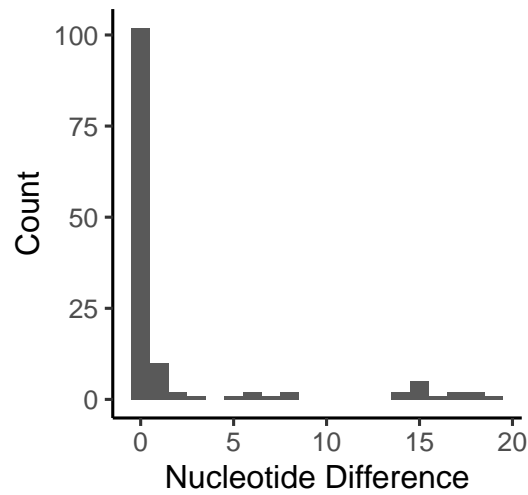


305 sequences assigned
190 (62.3%) exact matches, in which:
189 unique CDR3
6 unique J



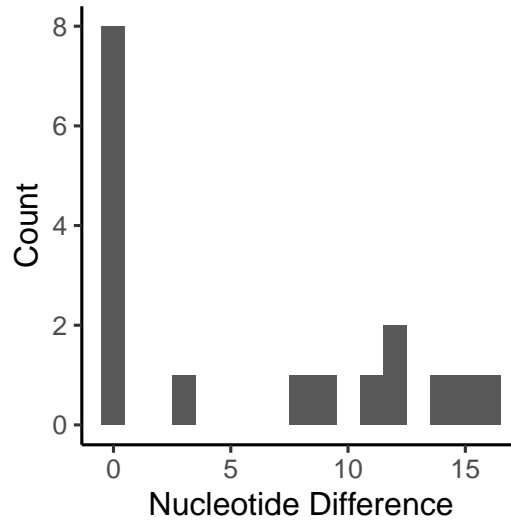
IGHV3-11*01

148 sequences assigned
102 (68.9%) exact matches, in which:
102 unique CDR3
5 unique J



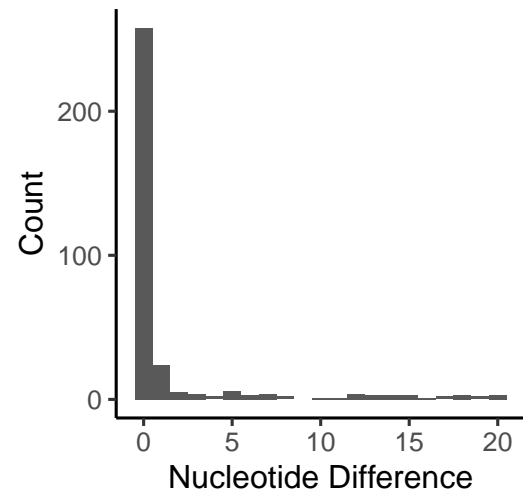
IGHV3-20*01

17 sequences assigned
8 (47.1%) exact matches, in which:
8 unique CDR3
3 unique J



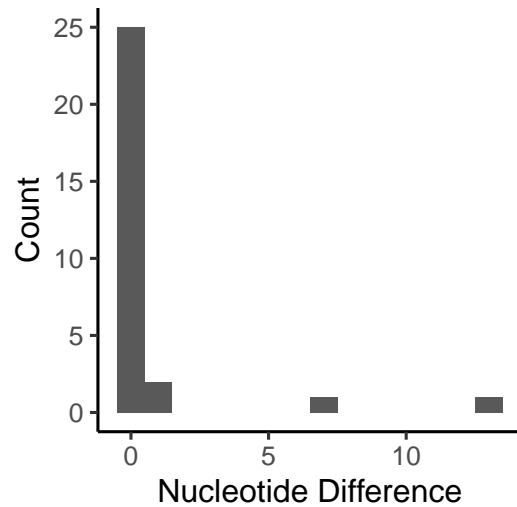
IGHV3-30-3*01

363 sequences assigned
258 (71.1%) exact matches, in which:
255 unique CDR3
5 unique J



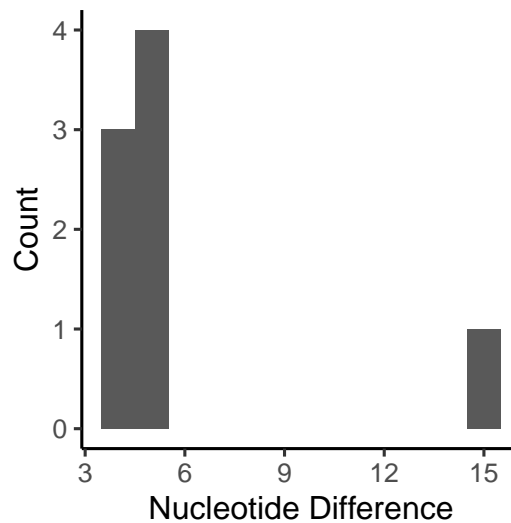
IGHV3-13*01

36 sequences assigned
25 (69.4%) exact matches, in which:
25 unique CDR3
3 unique J



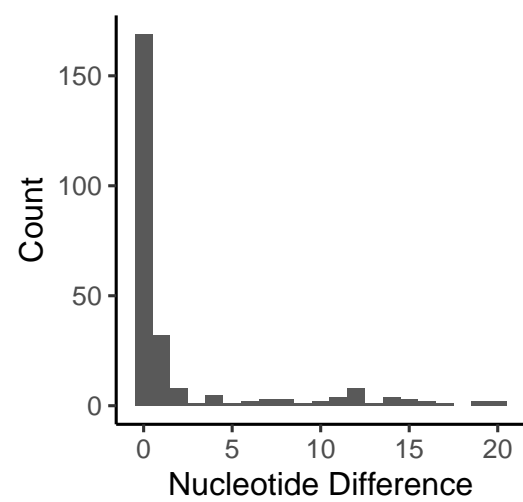
IGHV3-20*04

9 sequences assigned
No exact matches.



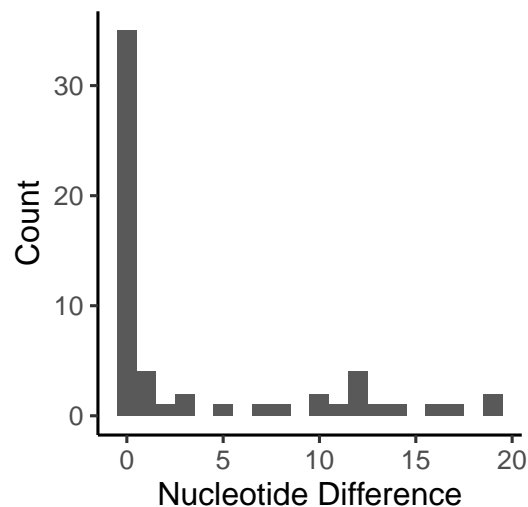
IGHV3-33*01

283 sequences assigned
169 (59.7%) exact matches, in which:
166 unique CDR3
6 unique J



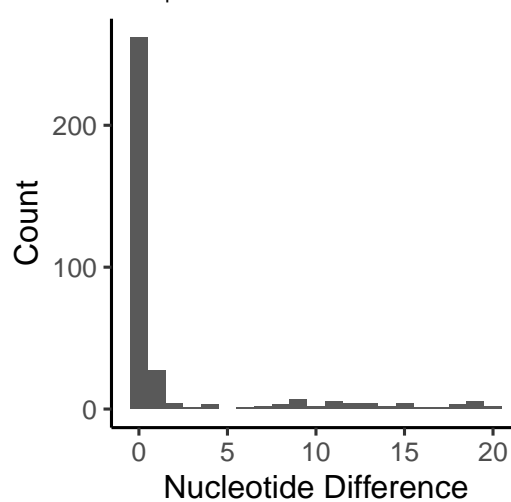
IGHV3-15*01

64 sequences assigned
35 (54.7%) exact matches, in which:
35 unique CDR3
4 unique J



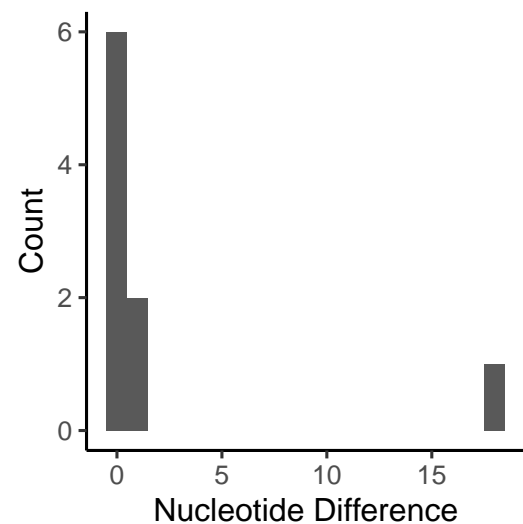
IGHV3-21*01

364 sequences assigned
262 (72%) exact matches, in which:
259 unique CDR3
6 unique J



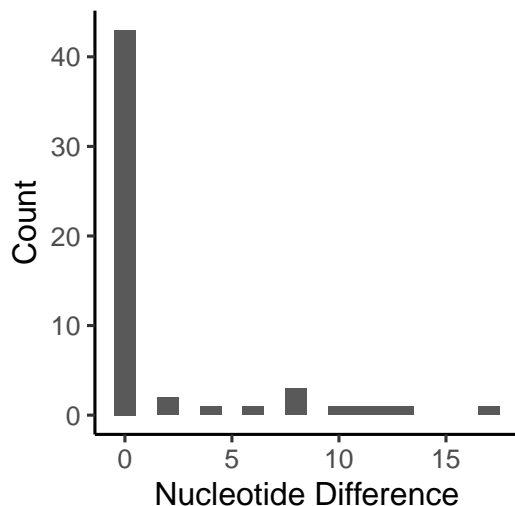
IGHV3-43*01

9 sequences assigned
6 (66.7%) exact matches, in which:
6 unique CDR3
2 unique J



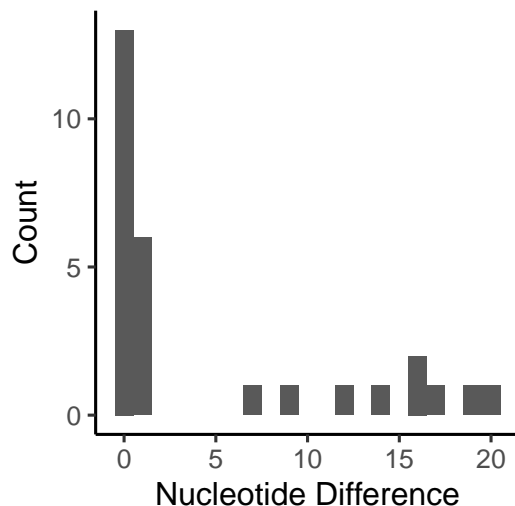
IGHV3-48*01

64 sequences assigned
43 (67.2%) exact matches, in which:
42 unique CDR3
5 unique J



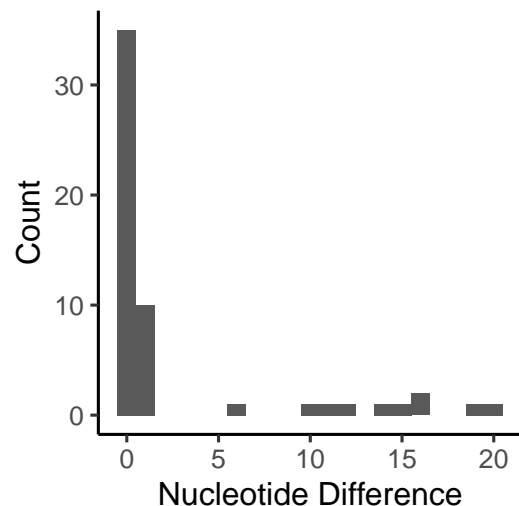
IGHV3-49*04

39 sequences assigned
13 (33.3%) exact matches, in which:
13 unique CDR3
5 unique J



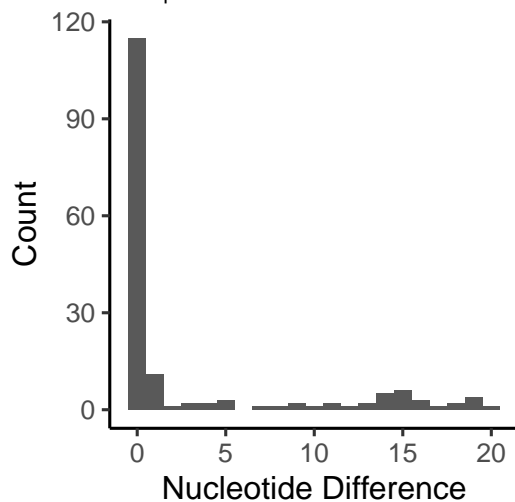
IGHV3-66*02

58 sequences assigned
35 (60.3%) exact matches, in which:
35 unique CDR3
5 unique J



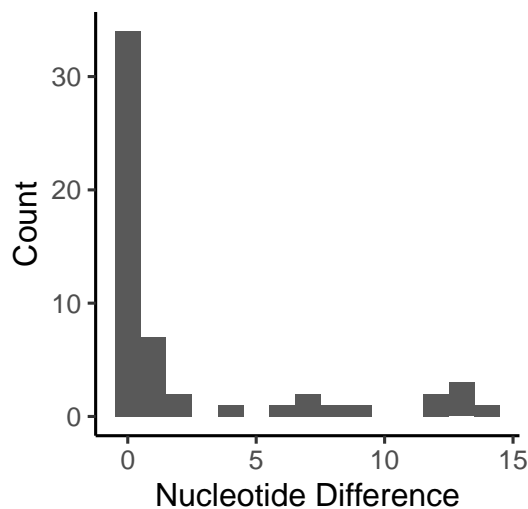
IGHV3-48*03

173 sequences assigned
115 (66.5%) exact matches, in which:
113 unique CDR3
6 unique J



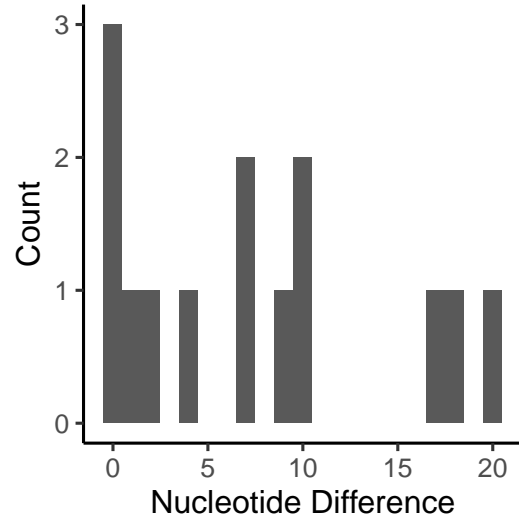
IGHV3-53*02

56 sequences assigned
34 (60.7%) exact matches, in which:
34 unique CDR3
4 unique J



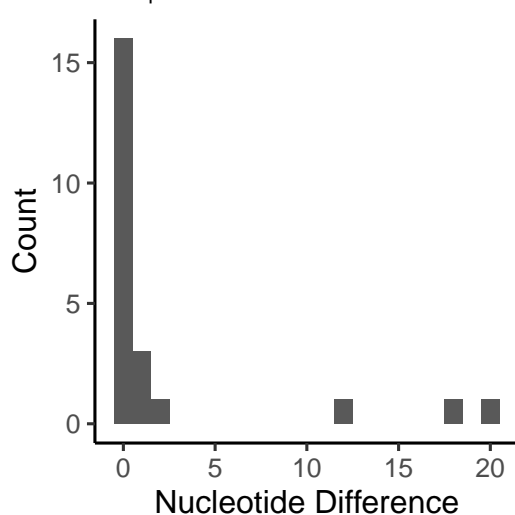
IGHV3-72*01

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



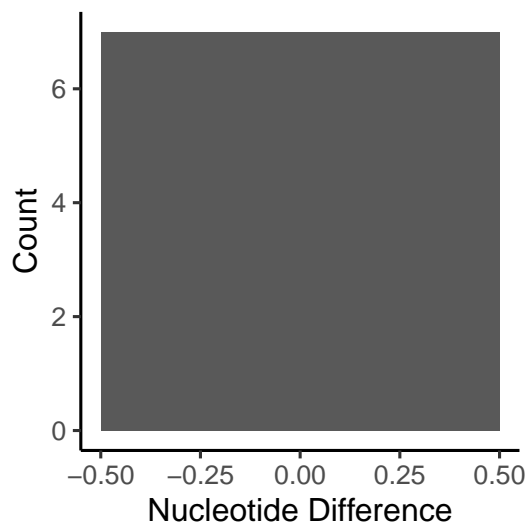
IGHV3-49*03

24 sequences assigned
16 (66.7%) exact matches, in which:
16 unique CDR3
3 unique J



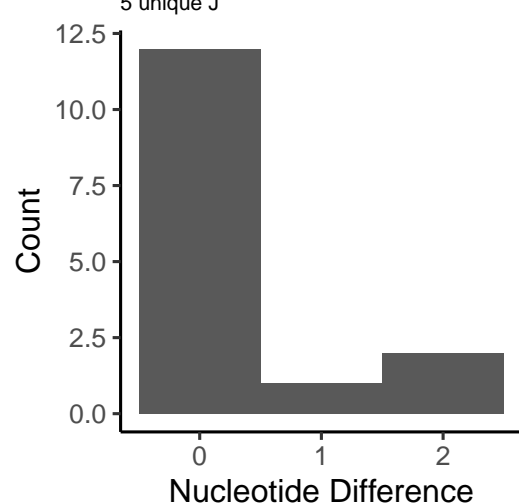
IGHV3-64*01

7 sequences assigned
7 (100%) exact matches, in which:
7 unique CDR3
2 unique J



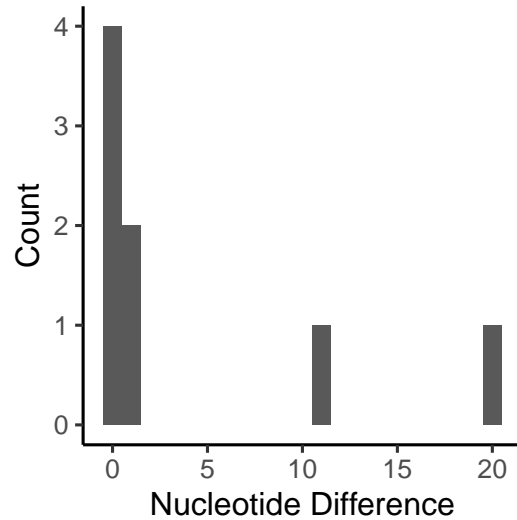
IGHV3-73*01

16 sequences assigned
12 (75%) exact matches, in which:
12 unique CDR3
5 unique J



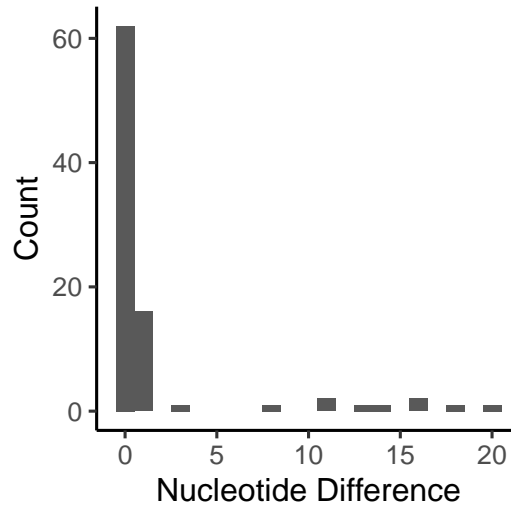
IGHV3-73*02

8 sequences assigned
4 (50%) exact matches, in which:
4 unique CDR3
4 unique J



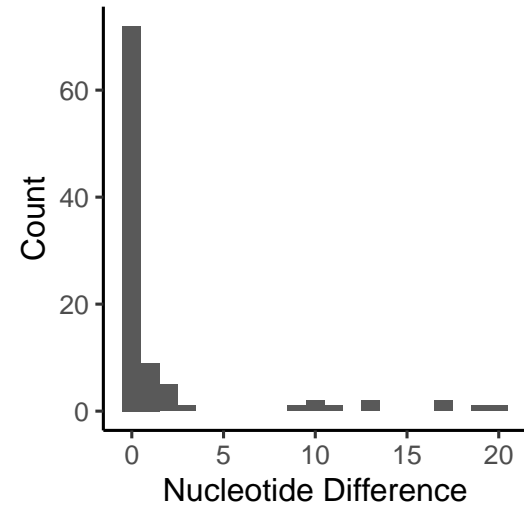
IGHV4-4*02

94 sequences assigned
62 (66%) exact matches, in which:
62 unique CDR3
5 unique J



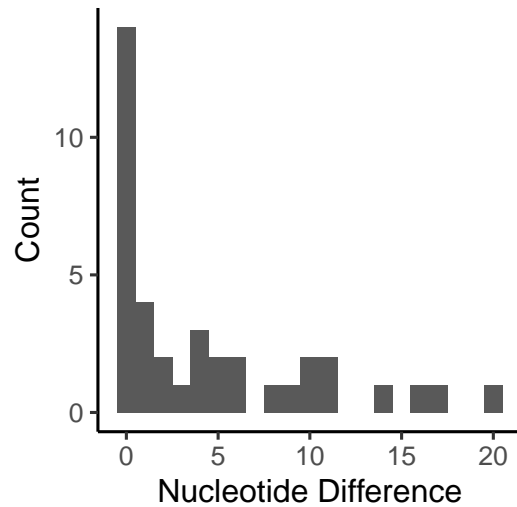
IGHV4-31*03

141 sequences assigned
72 (51.1%) exact matches, in which:
72 unique CDR3
5 unique J



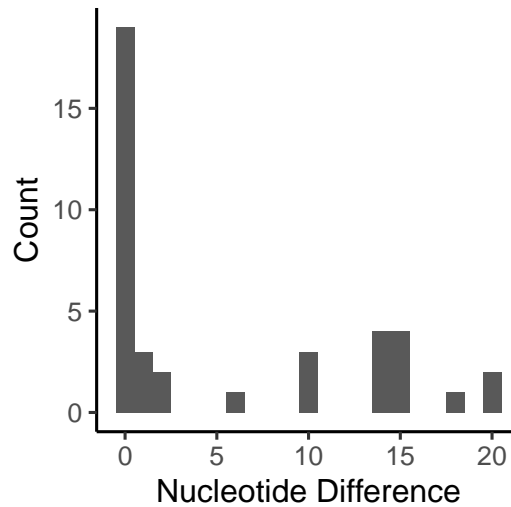
IGHV3-74*01

41 sequences assigned
14 (34.1%) exact matches, in which:
14 unique CDR3
4 unique J



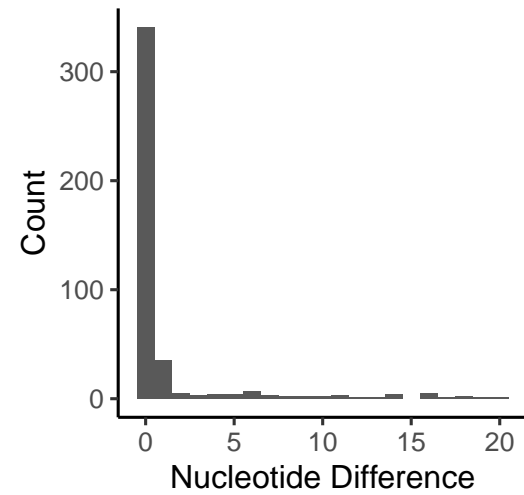
IGHV4-30-4*01

47 sequences assigned
19 (40.4%) exact matches, in which:
19 unique CDR3
3 unique J



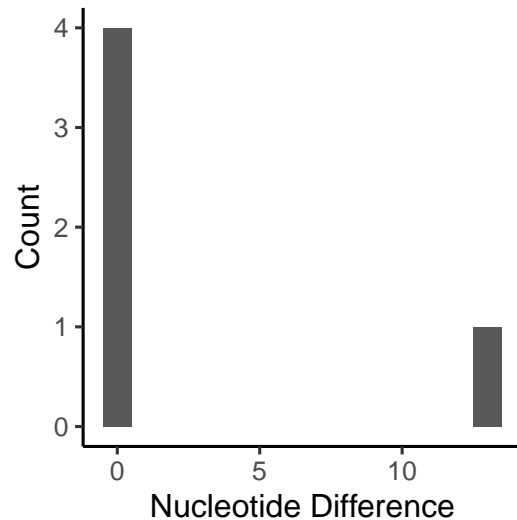
IGHV4-34*01

452 sequences assigned
341 (75.4%) exact matches, in which:
338 unique CDR3
6 unique J



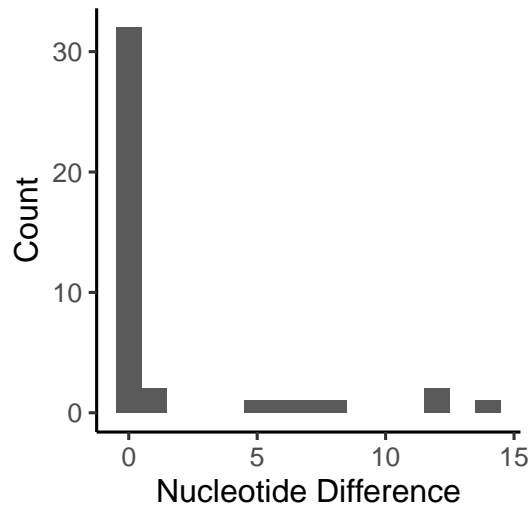
IGHV3-43D*04

5 sequences assigned
4 (80%) exact matches, in which:
4 unique CDR3
2 unique J



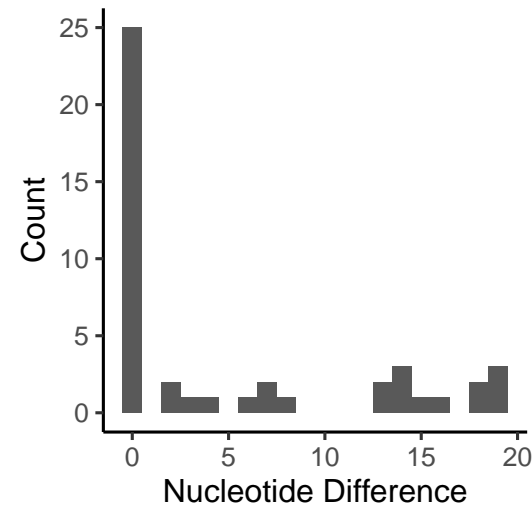
IGHV4-30-2*01

46 sequences assigned
32 (69.6%) exact matches, in which:
32 unique CDR3
5 unique J



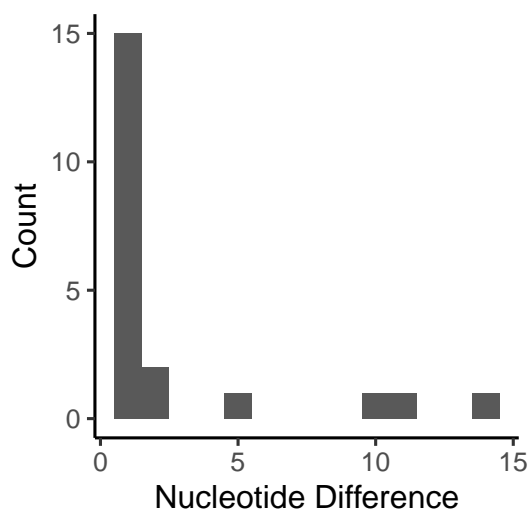
IGHV4-38-2*01

63 sequences assigned
25 (39.7%) exact matches, in which:
25 unique CDR3
4 unique J



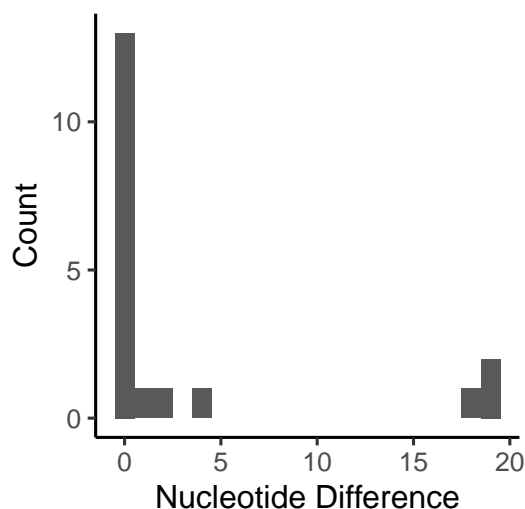
IGHV4-38-2*02

28 sequences assigned
No exact matches.



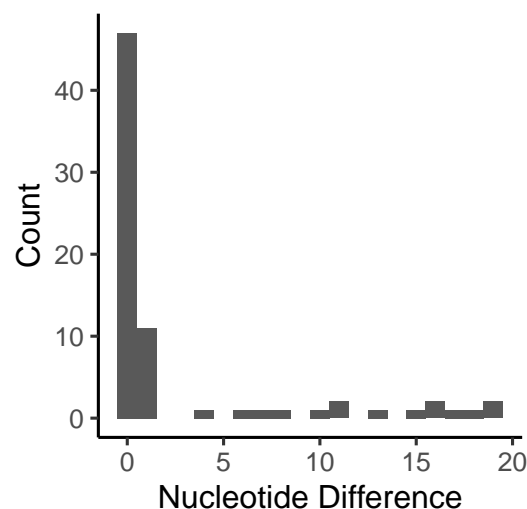
IGHV4-61*01

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



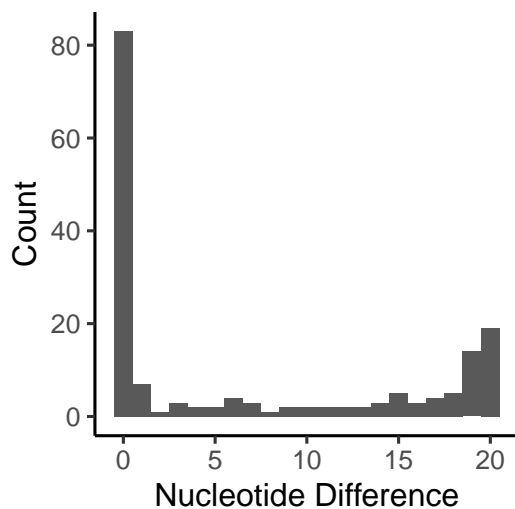
IGHV5-51*03

82 sequences assigned
47 (57.3%) exact matches, in which:
46 unique CDR3
5 unique J



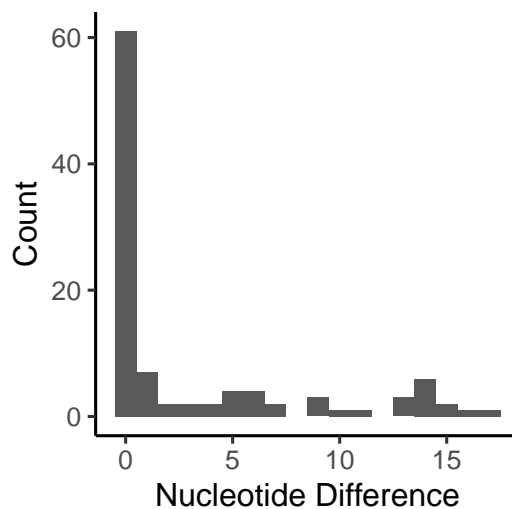
IGHV4-39*01

201 sequences assigned
83 (41.3%) exact matches, in which:
83 unique CDR3
5 unique J



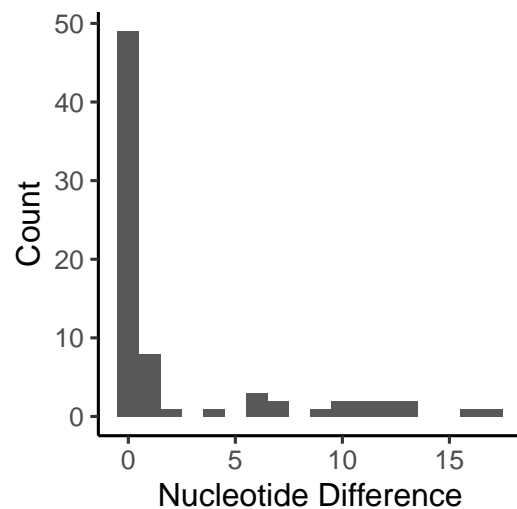
IGHV4-61*02

122 sequences assigned
61 (50%) exact matches, in which:
61 unique CDR3
5 unique J



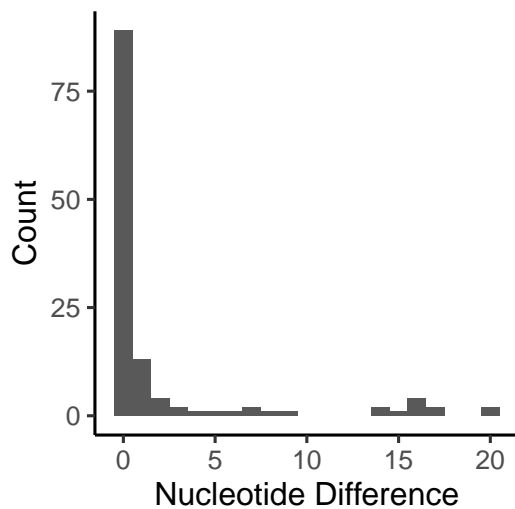
IGHV6-1*01

76 sequences assigned
49 (64.5%) exact matches, in which:
49 unique CDR3
5 unique J



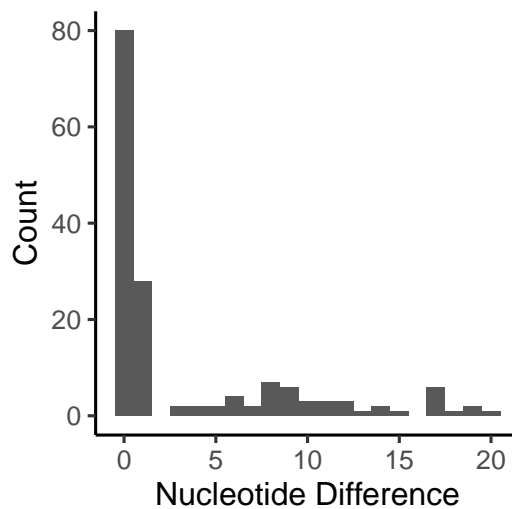
IGHV4-59*01

140 sequences assigned
89 (63.6%) exact matches, in which:
87 unique CDR3
6 unique J



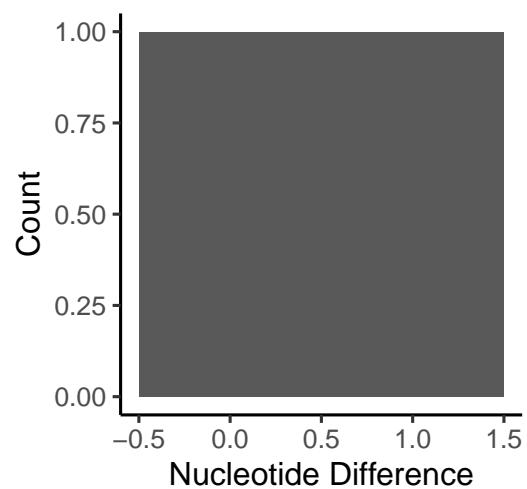
IGHV5-51*01

182 sequences assigned
80 (44%) exact matches, in which:
80 unique CDR3
6 unique J



IGHV7-4-1*01

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





Warning – no inferred sequences found.