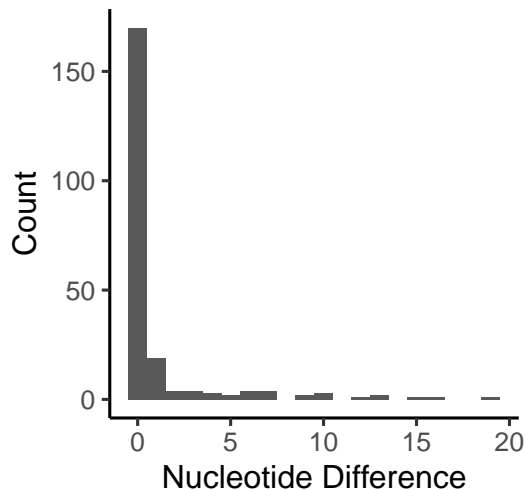


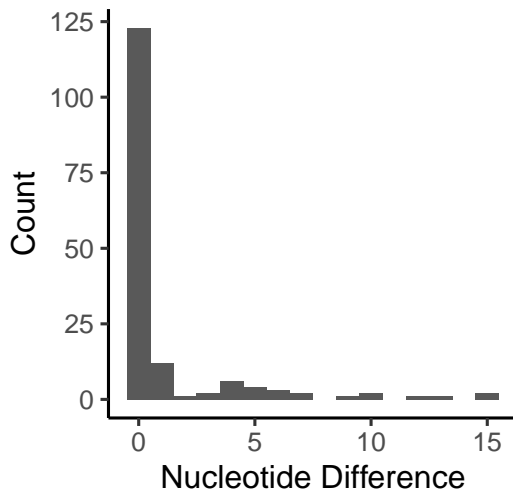
IGHV1–2*02

222 sequences assigned
170 (76.6%) exact matches, in which:
170 unique CDR3
6 unique J



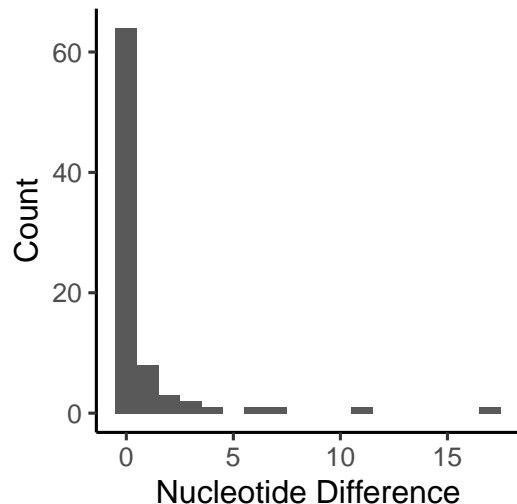
IGHV1–18*01

160 sequences assigned
123 (76.9%) exact matches, in which:
123 unique CDR3
5 unique J



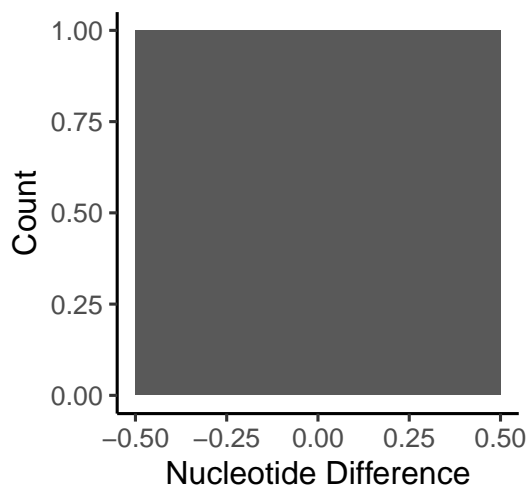
IGHV1–46*01

82 sequences assigned
64 (78%) exact matches, in which:
64 unique CDR3
6 unique J



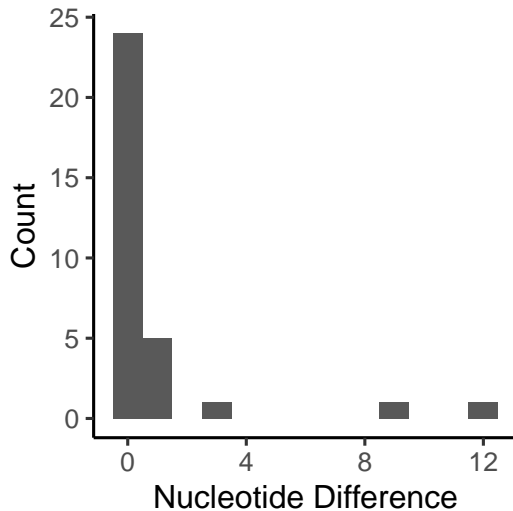
IGHV1–3*02

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



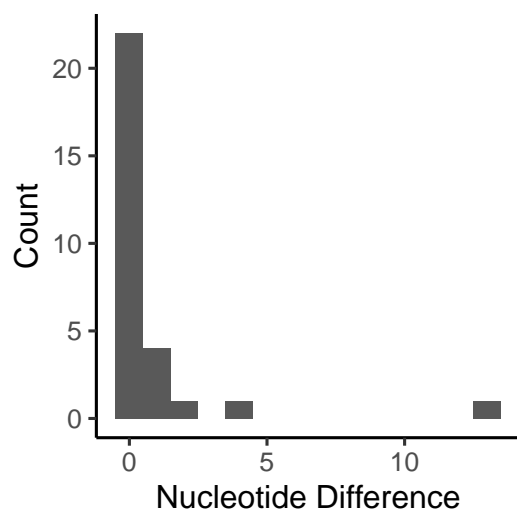
IGHV1–24*01

32 sequences assigned
24 (75%) exact matches, in which:
24 unique CDR3
5 unique J



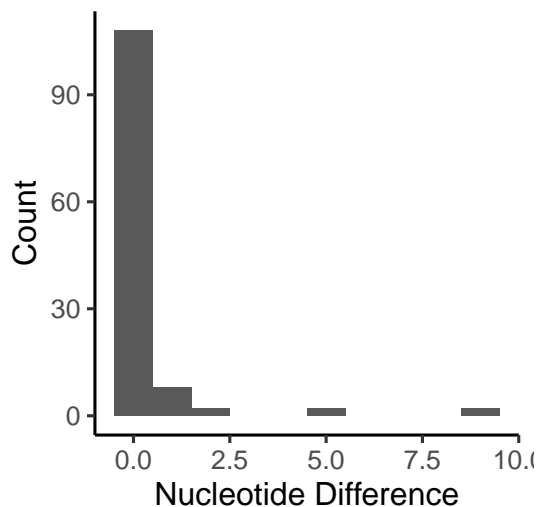
IGHV1–46*03

29 sequences assigned
22 (75.9%) exact matches, in which:
22 unique CDR3
5 unique J



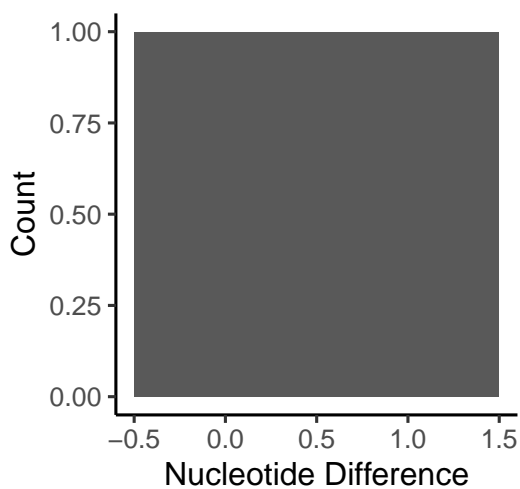
IGHV1–8*01

122 sequences assigned
108 (88.5%) exact matches, in which:
107 unique CDR3
6 unique J



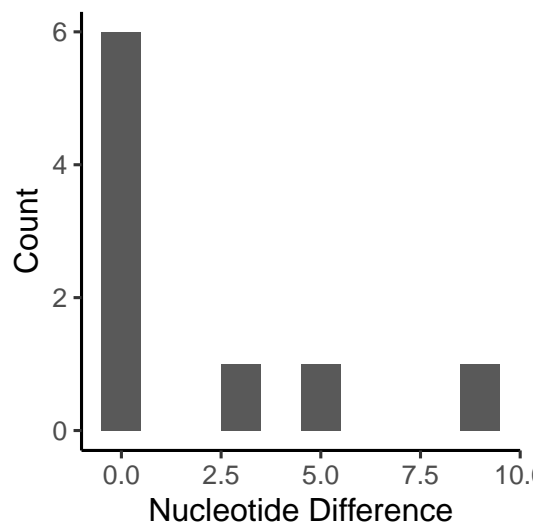
IGHV1–45*02

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



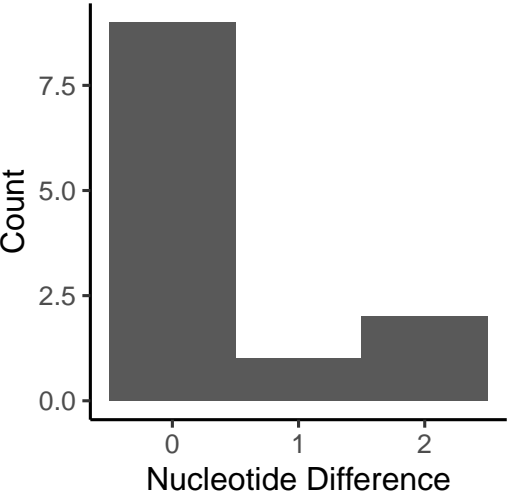
IGHV1–58*01

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



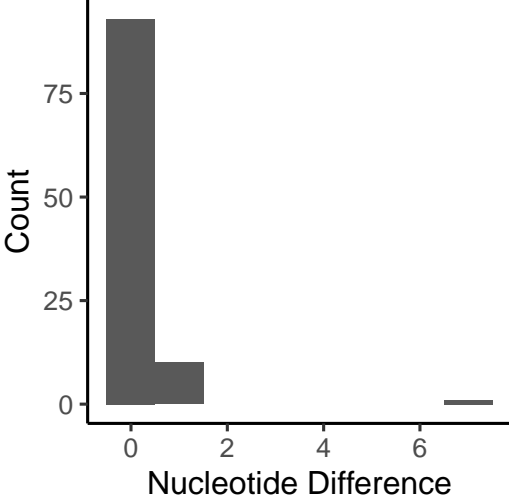
IGHV1-58*02

12 sequences assigned
9 (75%) exact matches, in which:
9 unique CDR3
3 unique J



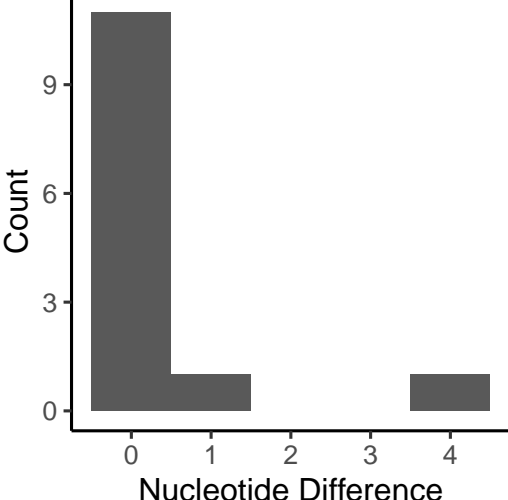
IGHV1-69*10

104 sequences assigned
93 (89.4%) exact matches, in which:
93 unique CDR3
5 unique J



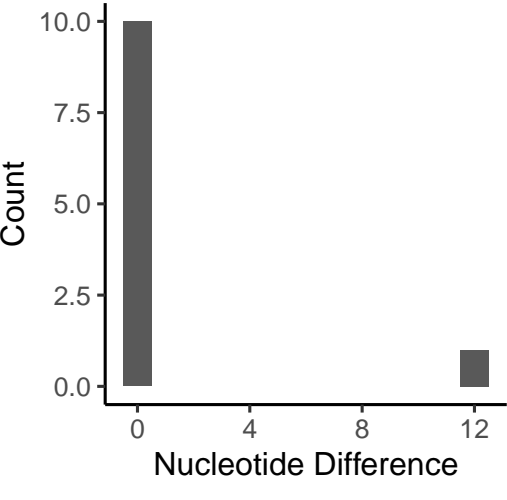
IGHV2-70*01

13 sequences assigned
11 (84.6%) exact matches, in which:
11 unique CDR3
4 unique J



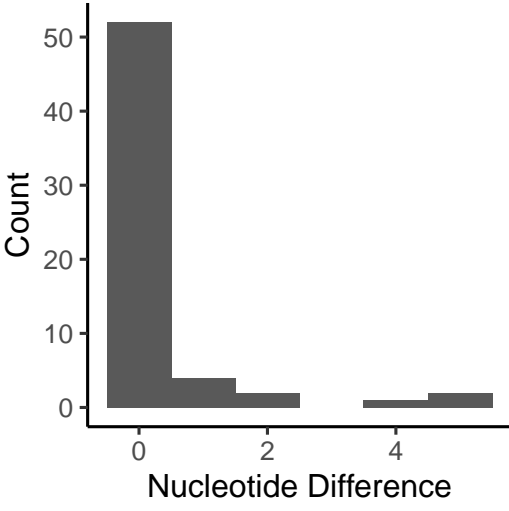
IGHV1-69-2*01

11 sequences assigned
10 (90.9%) exact matches, in which:
10 unique CDR3
3 unique J



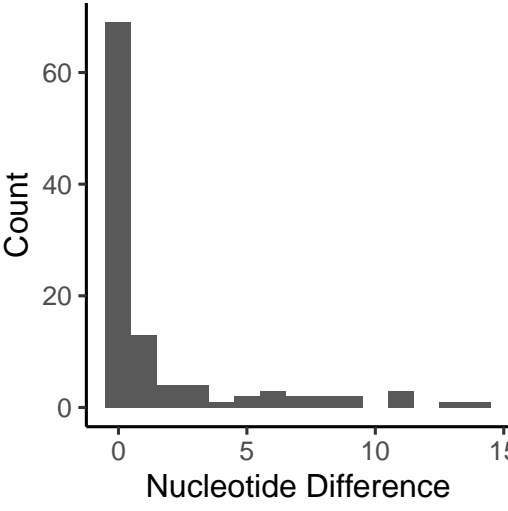
IGHV2-5*01

61 sequences assigned
52 (85.2%) exact matches, in which:
52 unique CDR3
5 unique J



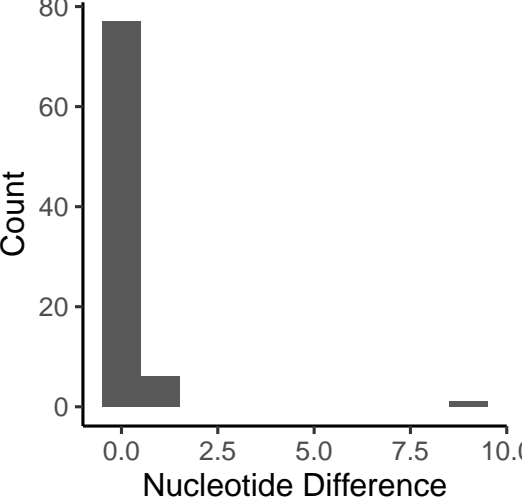
IGHV3-7*01

107 sequences assigned
69 (64.5%) exact matches, in which:
69 unique CDR3
5 unique J



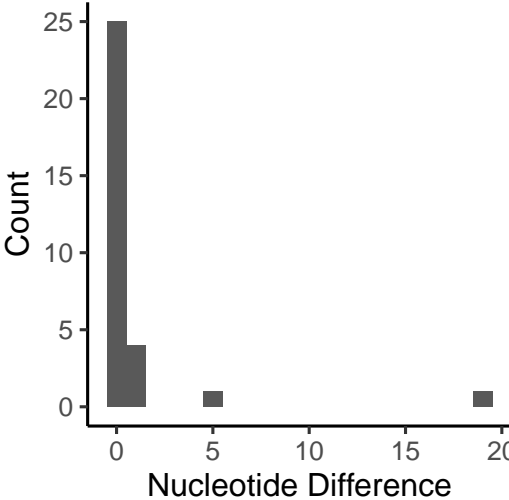
IGHV1-69*06

84 sequences assigned
77 (91.7%) exact matches, in which:
77 unique CDR3
4 unique J



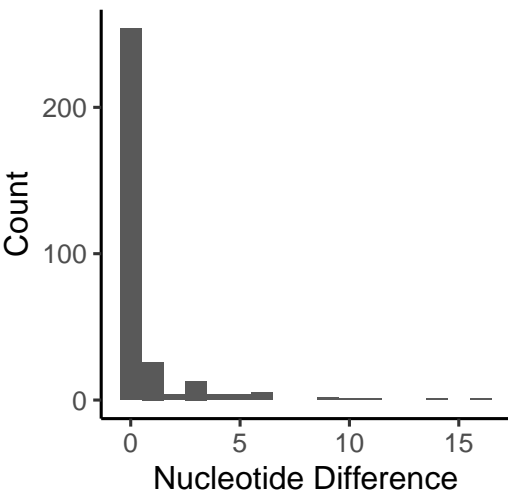
IGHV2-26*01

31 sequences assigned
25 (80.6%) exact matches, in which:
25 unique CDR3
5 unique J



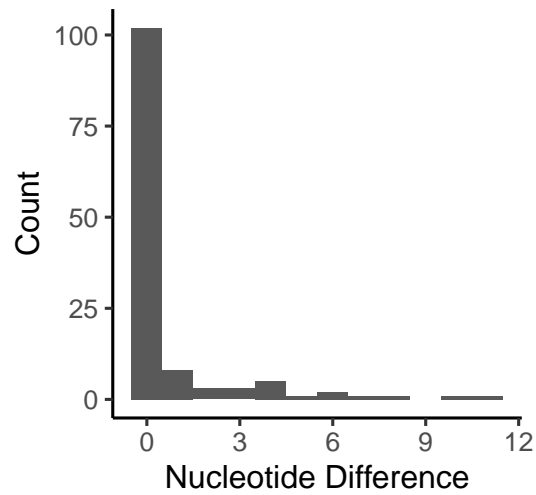
IGHV3-9*01

316 sequences assigned
254 (80.4%) exact matches, in which:
251 unique CDR3
6 unique J



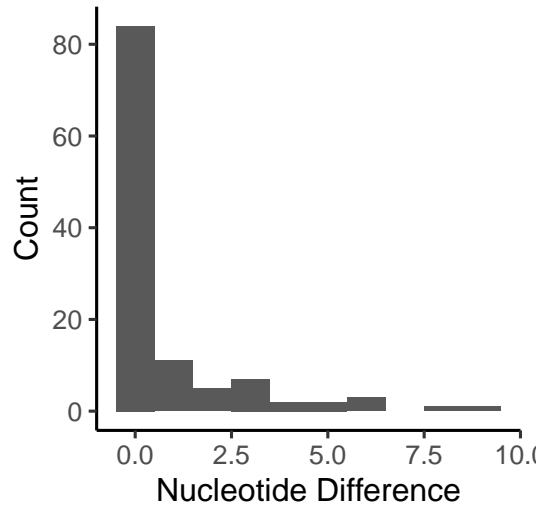
IGHV3-11*01

128 sequences assigned
102 (79.7%) exact matches, in which:
102 unique CDR3
5 unique J



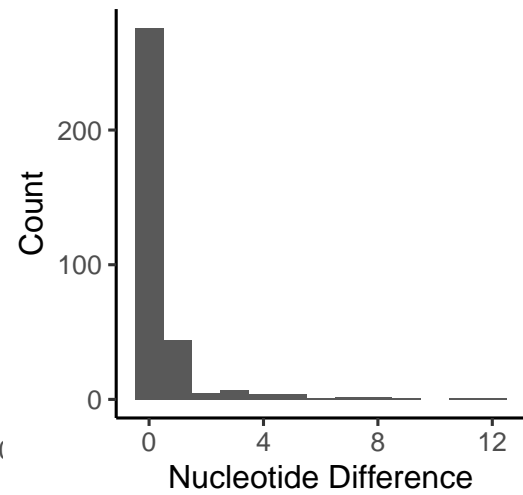
IGHV3-15*07

117 sequences assigned
84 (71.8%) exact matches, in which:
84 unique CDR3
5 unique J



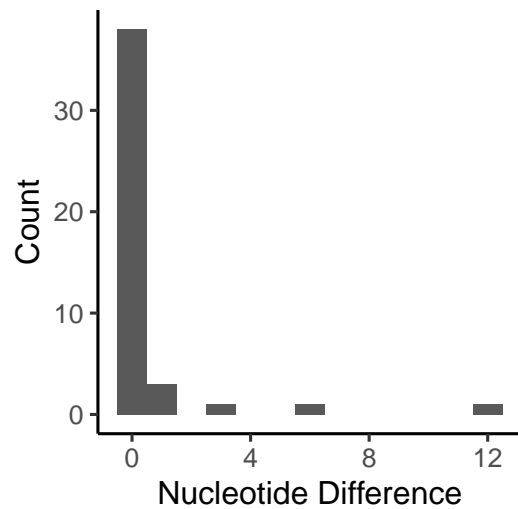
IGHV3-21*01

348 sequences assigned
276 (79.3%) exact matches, in which:
272 unique CDR3
6 unique J



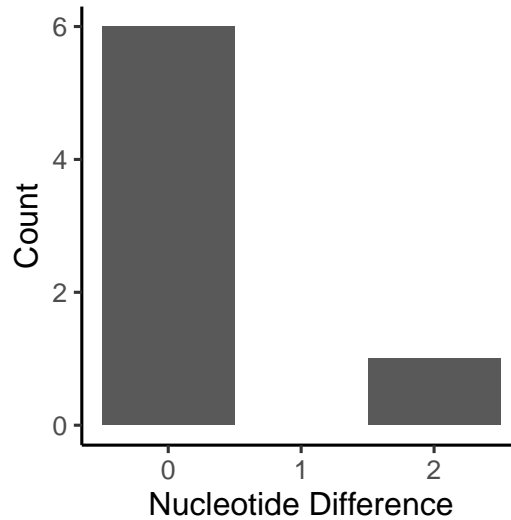
IGHV3-13*01

44 sequences assigned
38 (86.4%) exact matches, in which:
38 unique CDR3
5 unique J



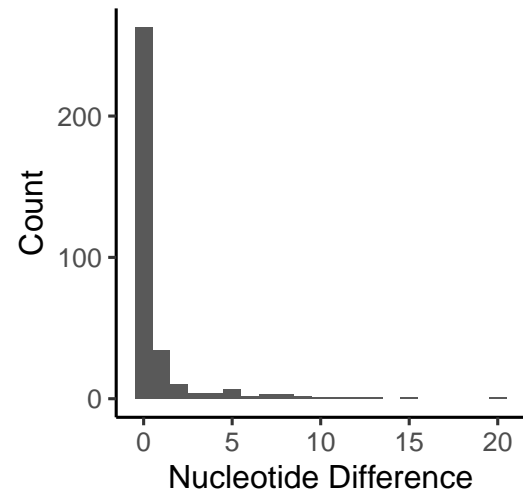
IGHV3-20*01

7 sequences assigned
6 (85.7%) exact matches, in which:
6 unique CDR3
3 unique J



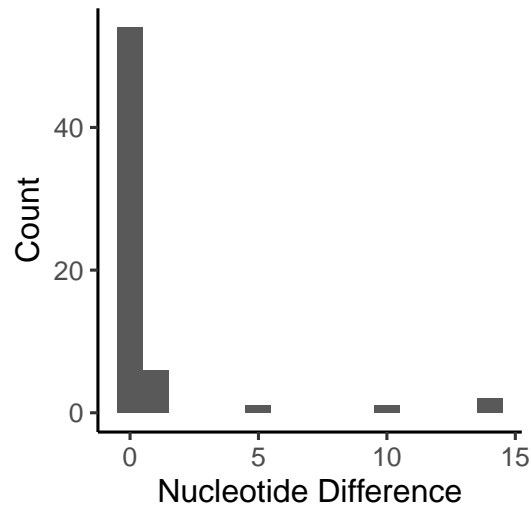
IGHV3-33*01

338 sequences assigned
263 (77.8%) exact matches, in which:
263 unique CDR3
6 unique J



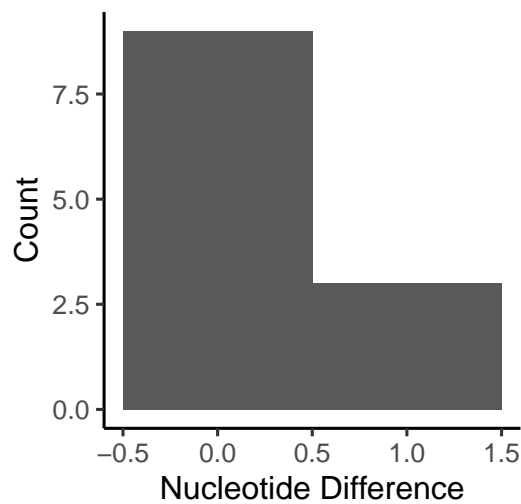
IGHV3-15*01

65 sequences assigned
54 (83.1%) exact matches, in which:
54 unique CDR3
4 unique J



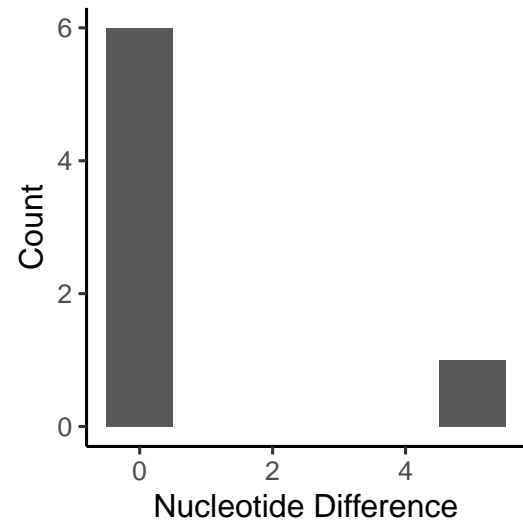
IGHV3-20*04

12 sequences assigned
9 (75%) exact matches, in which:
9 unique CDR3
3 unique J



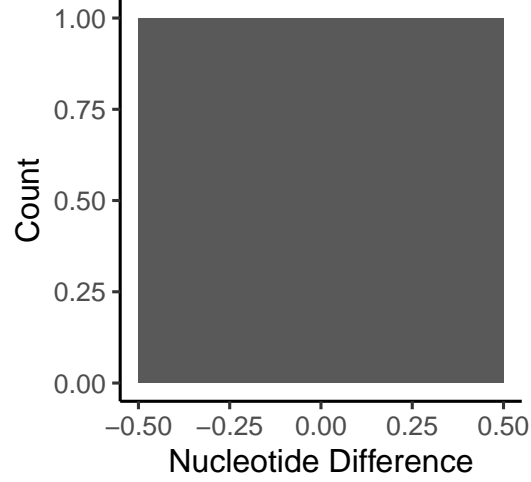
IGHV3-43*01

7 sequences assigned
6 (85.7%) exact matches, in which:
6 unique CDR3
2 unique J



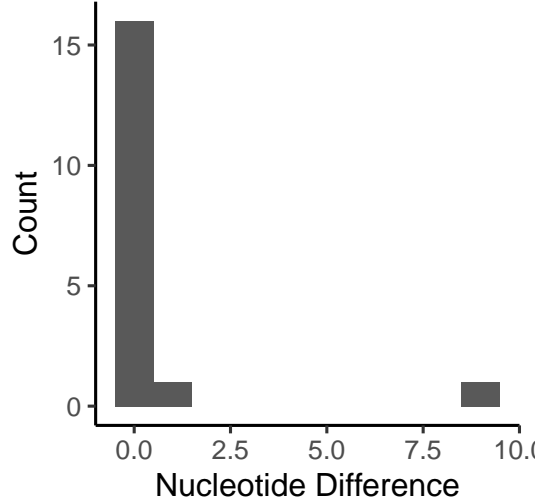
IGHV3-47*02

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



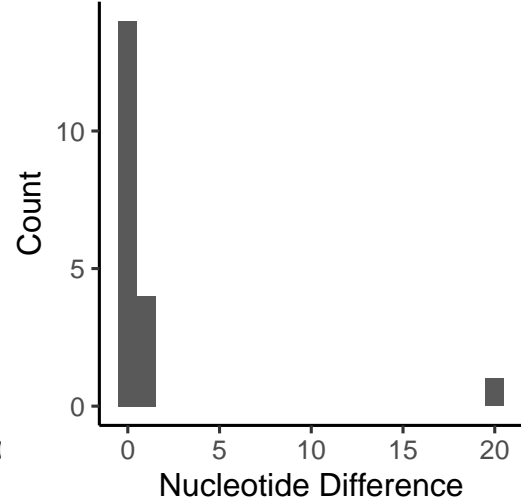
IGHV3-49*03

18 sequences assigned
16 (88.9%) exact matches, in which:
16 unique CDR3
4 unique J



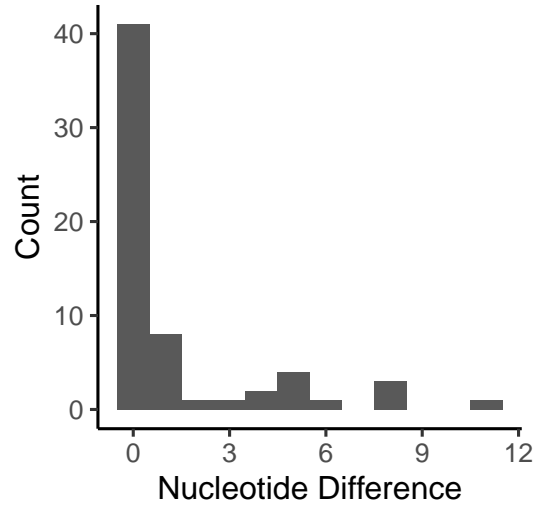
IGHV3-53*02

19 sequences assigned
14 (73.7%) exact matches, in which:
14 unique CDR3
4 unique J



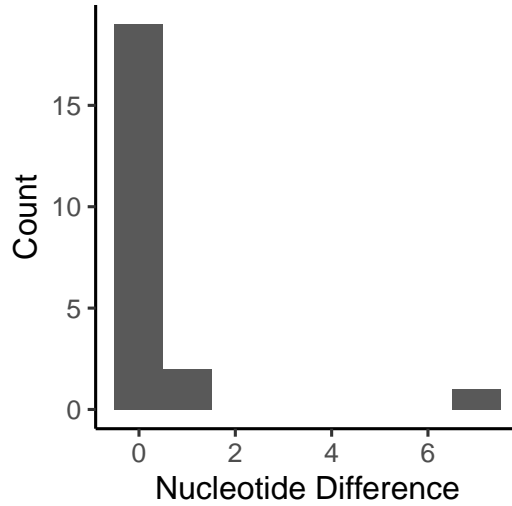
IGHV3-48*01

62 sequences assigned
41 (66.1%) exact matches, in which:
41 unique CDR3
6 unique J



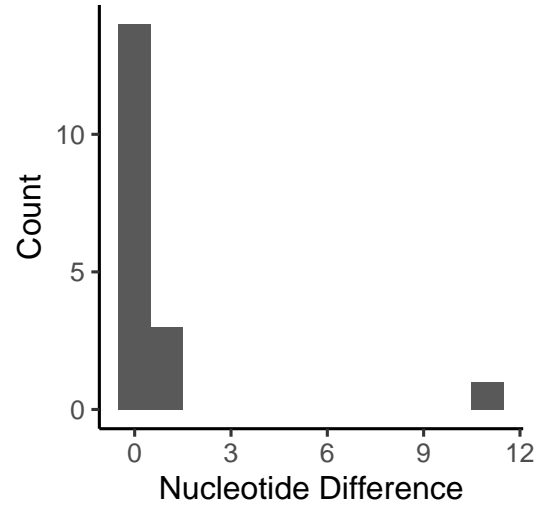
IGHV3-49*05

22 sequences assigned
19 (86.4%) exact matches, in which:
19 unique CDR3
4 unique J



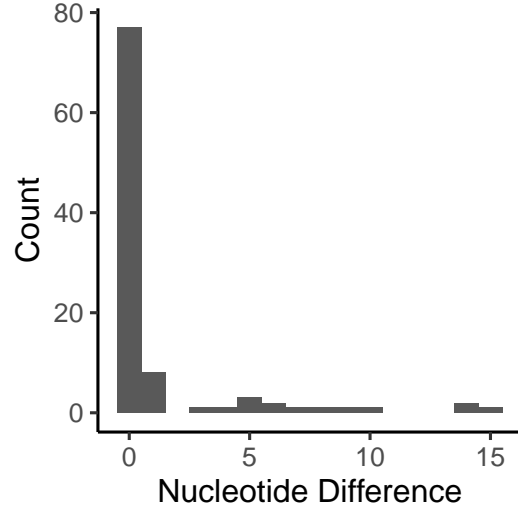
IGHV3-64*01

18 sequences assigned
14 (77.8%) exact matches, in which:
14 unique CDR3
6 unique J



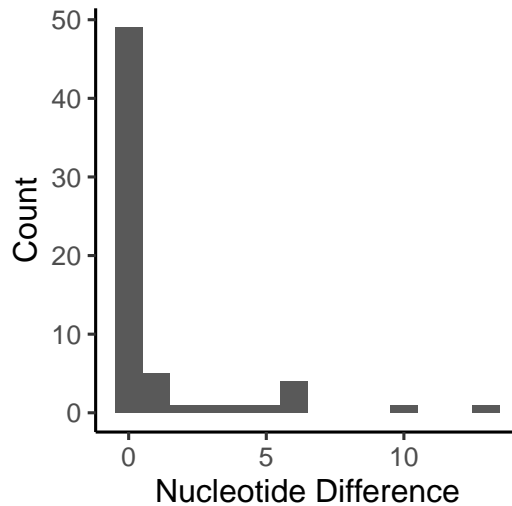
IGHV3-48*02

99 sequences assigned
77 (77.8%) exact matches, in which:
76 unique CDR3
5 unique J



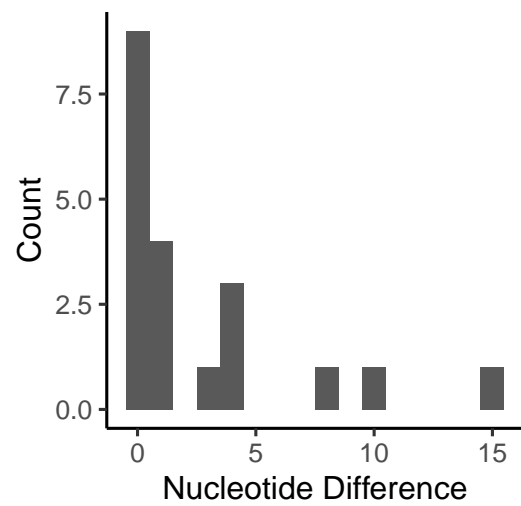
IGHV3-53*01

65 sequences assigned
49 (75.4%) exact matches, in which:
49 unique CDR3
5 unique J



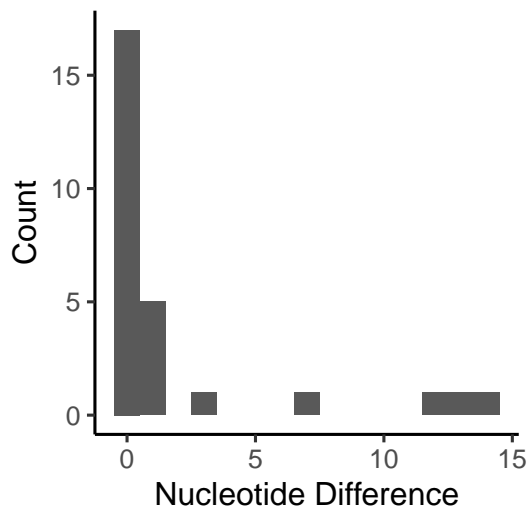
IGHV3-72*01

20 sequences assigned
9 (45%) exact matches, in which:
9 unique CDR3
2 unique J



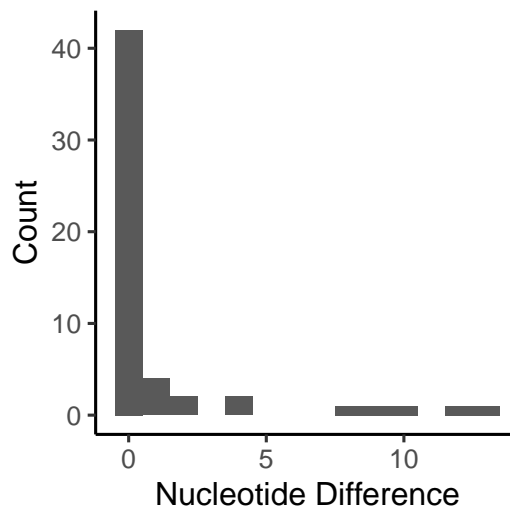
IGHV3-73*01

27 sequences assigned
17 (63%) exact matches, in which:
17 unique CDR3
5 unique J



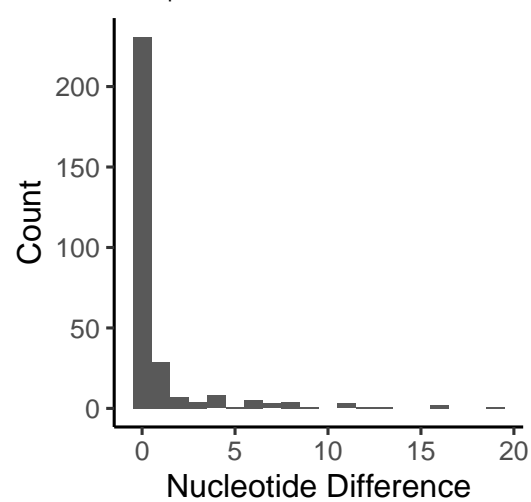
IGHV4-4*07

55 sequences assigned
42 (76.4%) exact matches, in which:
42 unique CDR3
5 unique J



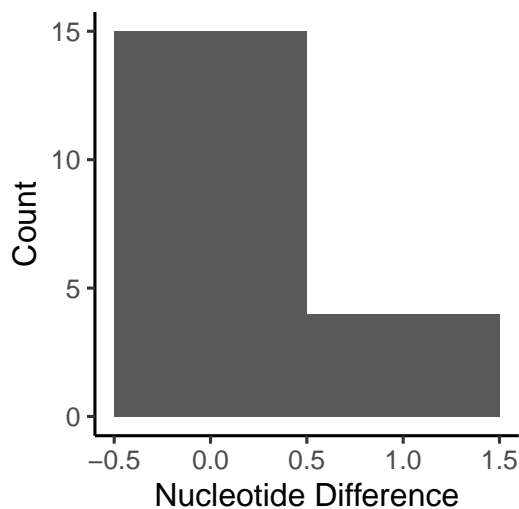
IGHV4-39*01

301 sequences assigned
231 (76.7%) exact matches, in which:
230 unique CDR3
6 unique J



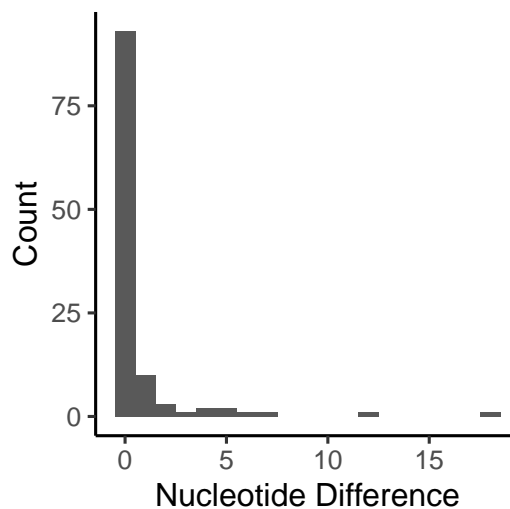
IGHV3-73*02

19 sequences assigned
15 (78.9%) exact matches, in which:
14 unique CDR3
3 unique J



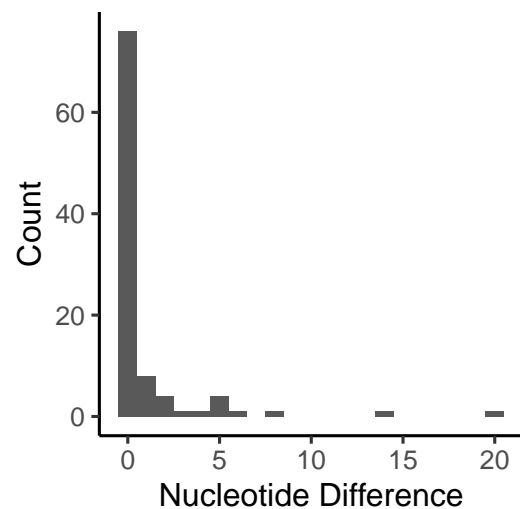
IGHV4-31*03

115 sequences assigned
93 (80.9%) exact matches, in which:
92 unique CDR3
6 unique J



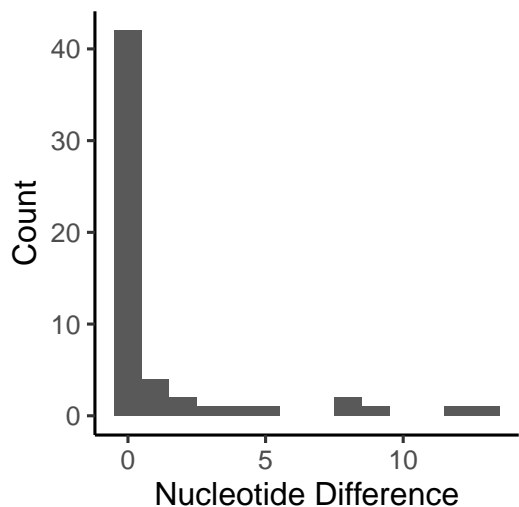
IGHV4-59*01

98 sequences assigned
76 (77.6%) exact matches, in which:
76 unique CDR3
5 unique J



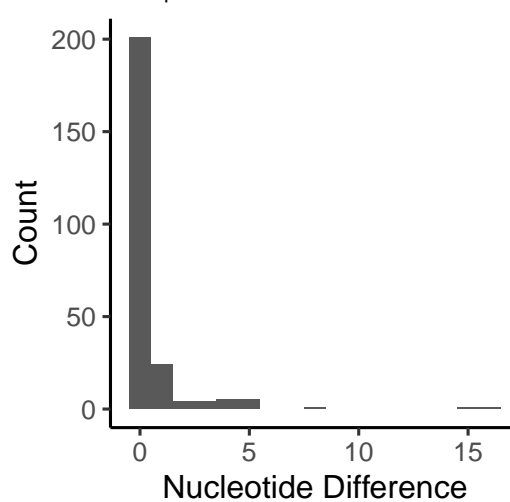
IGHV3-74*01

57 sequences assigned
42 (73.7%) exact matches, in which:
42 unique CDR3
5 unique J



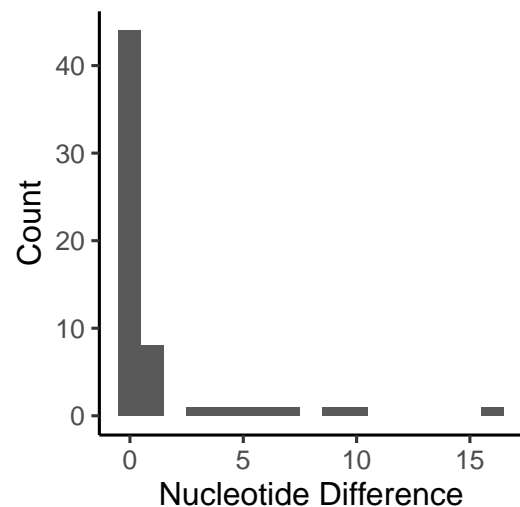
IGHV4-34*01

247 sequences assigned
201 (81.4%) exact matches, in which:
199 unique CDR3
6 unique J



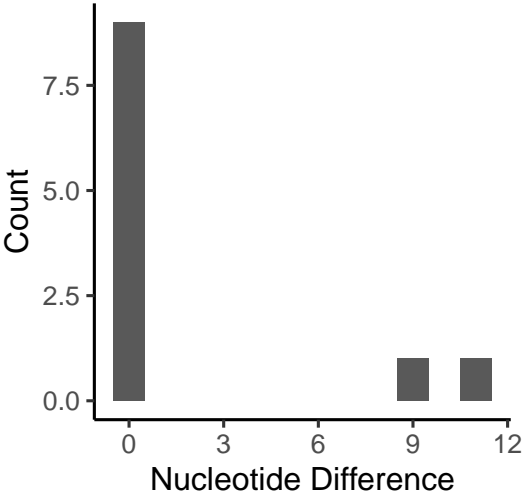
IGHV4-59*08

60 sequences assigned
44 (73.3%) exact matches, in which:
44 unique CDR3
6 unique J



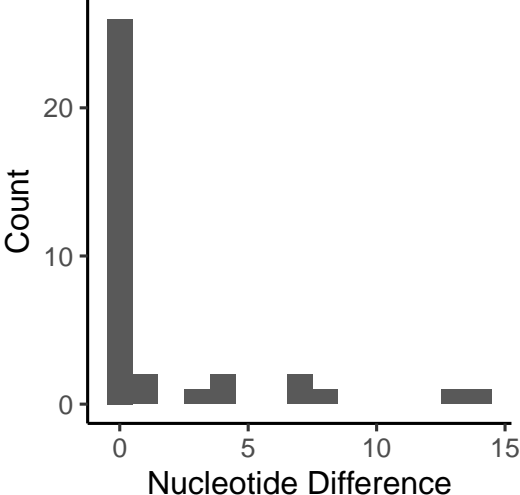
IGHV4-61*01

11 sequences assigned
9 (81.8%) exact matches, in which:
9 unique CDR3
3 unique J



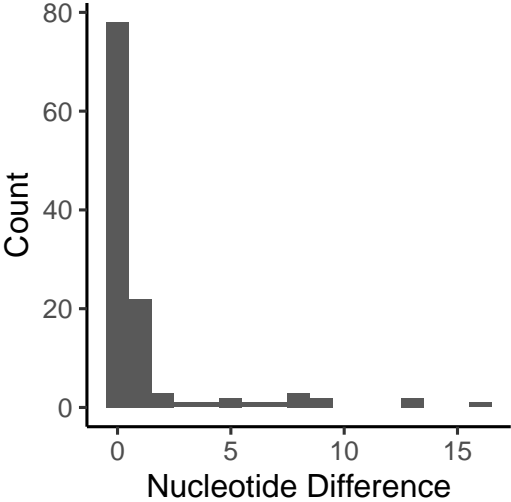
IGHV6-1*01

36 sequences assigned
26 (72.2%) exact matches, in which:
26 unique CDR3
4 unique J



IGHV5-51*01

117 sequences assigned
78 (66.7%) exact matches, in which:
76 unique CDR3
5 unique J



IGHV5-51*03

51 sequences assigned
38 (74.5%) exact matches, in which:
38 unique CDR3
5 unique J

