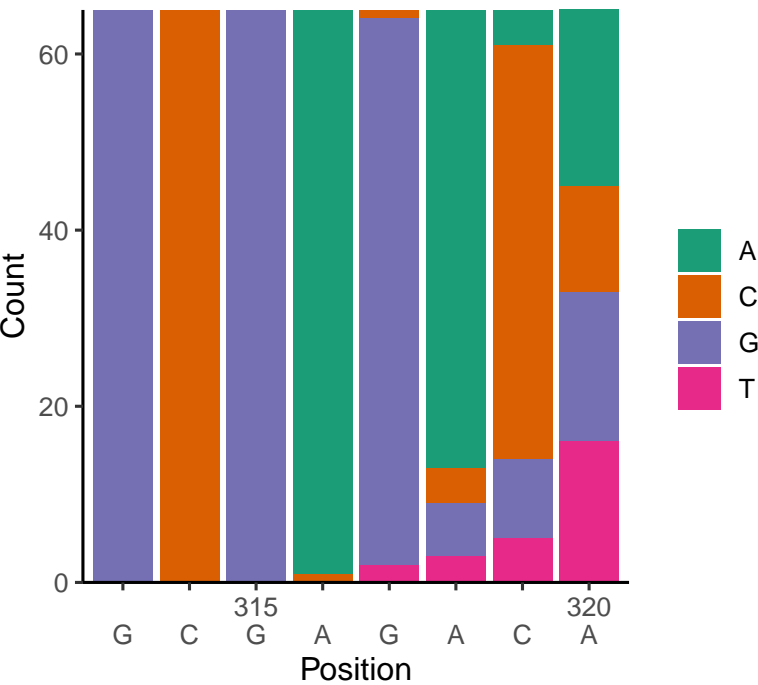


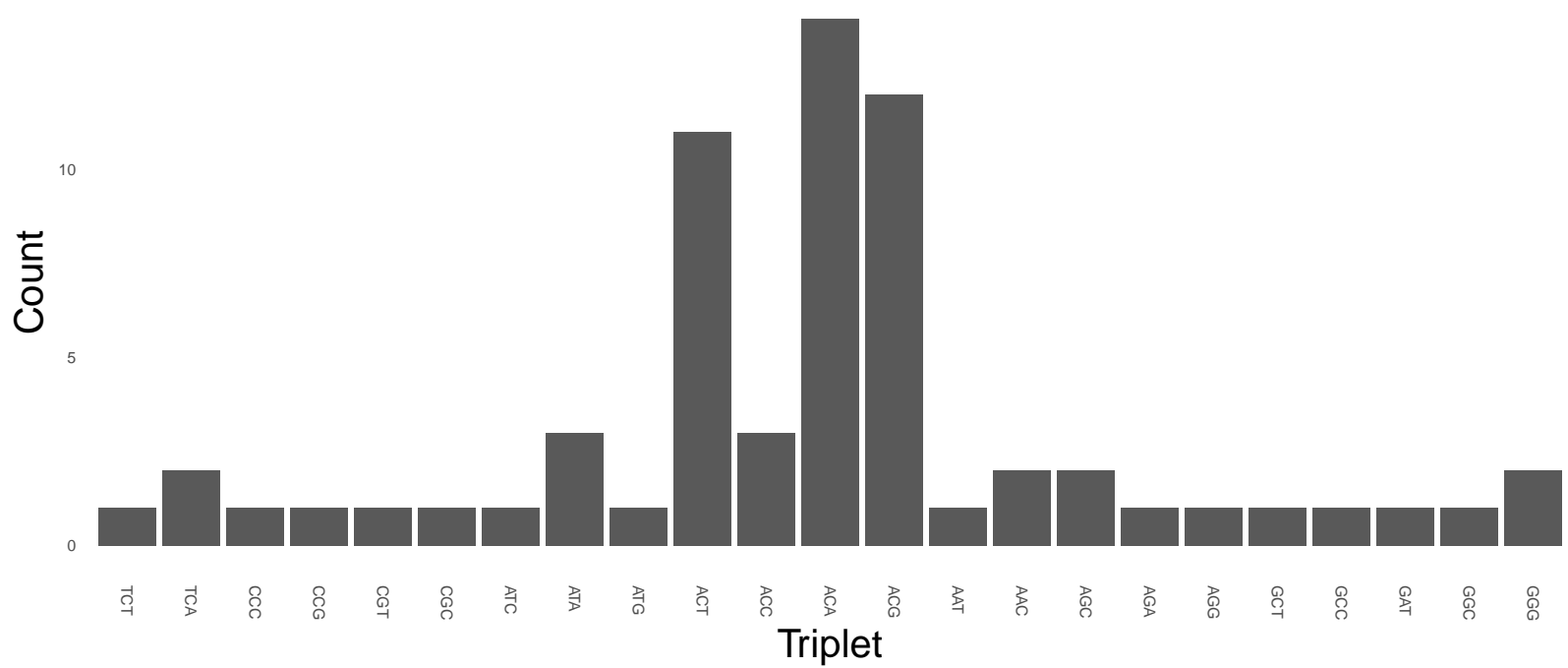
Gene IGHV5-51*01_C45G



Gene IGHV5-51*01_C45G

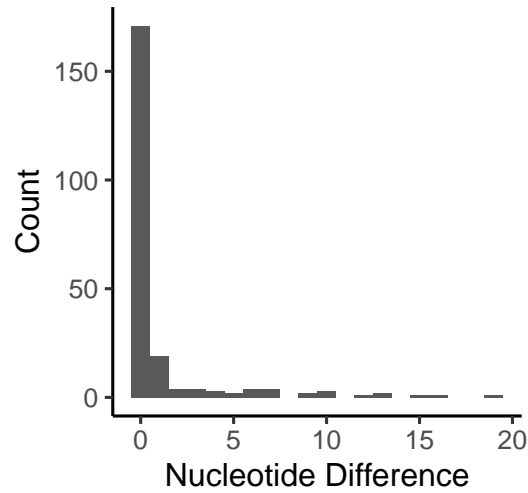


IGHV5-51*01_C45G- Final 3 nucleotides as a triplet



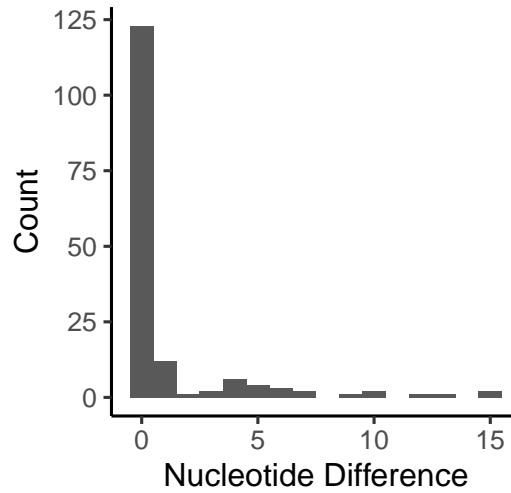
IGHV1–2*02

223 sequences assigned
171 (76.7%) exact matches, in which:
171 unique CDR3
6 unique J



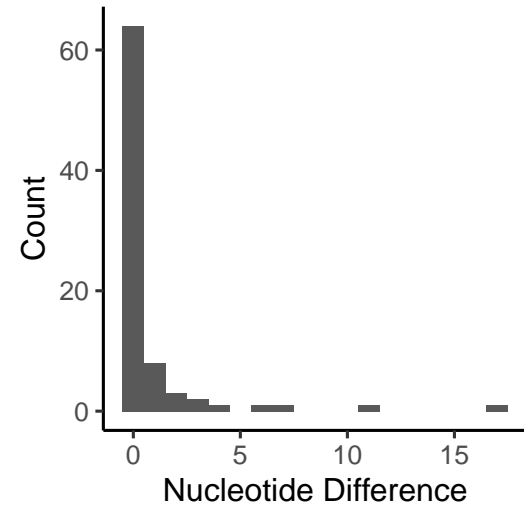
IGHV1–18*01

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



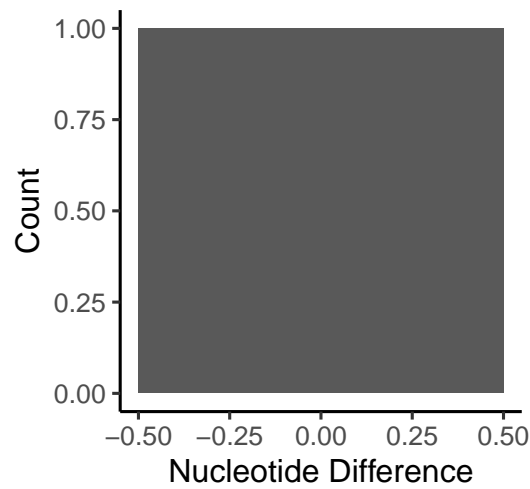
IGHV1–46*01

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



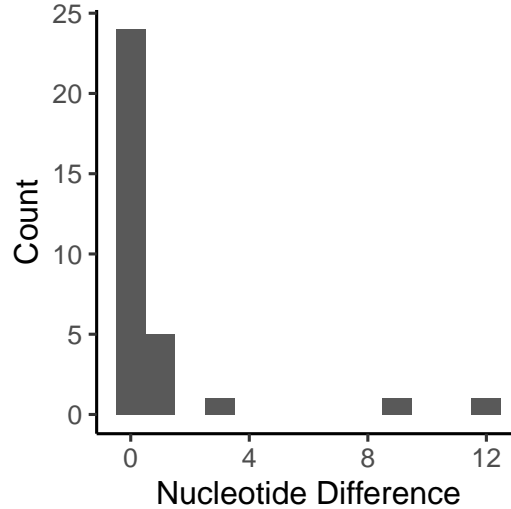
IGHV1–3*02

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



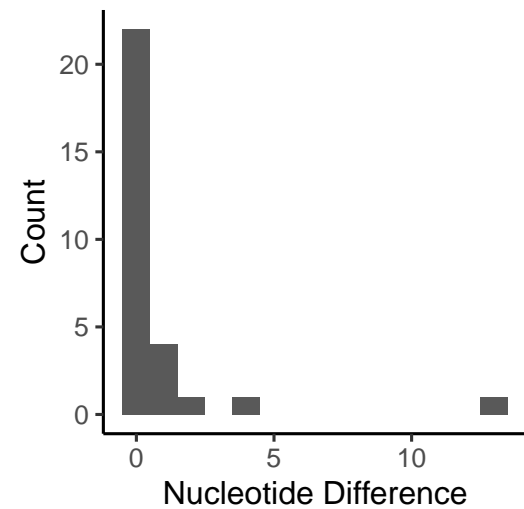
IGHV1–24*01

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



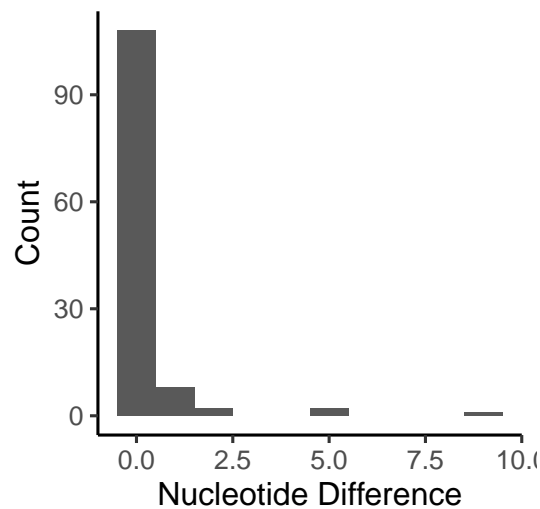
IGHV1–46*03

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



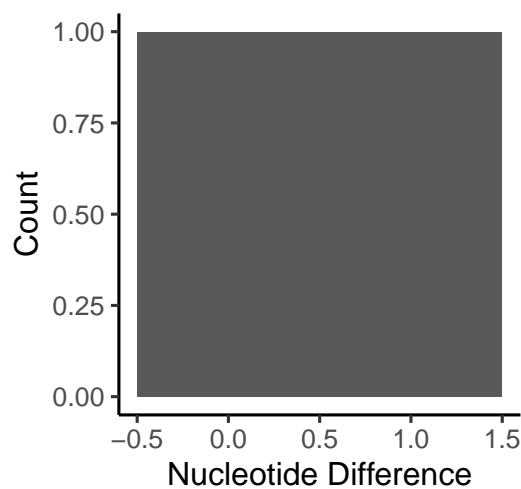
IGHV1–8*01

121 sequences assigned
108 (89.3%) exact matches, in which:
107 unique CDR3
6 unique J



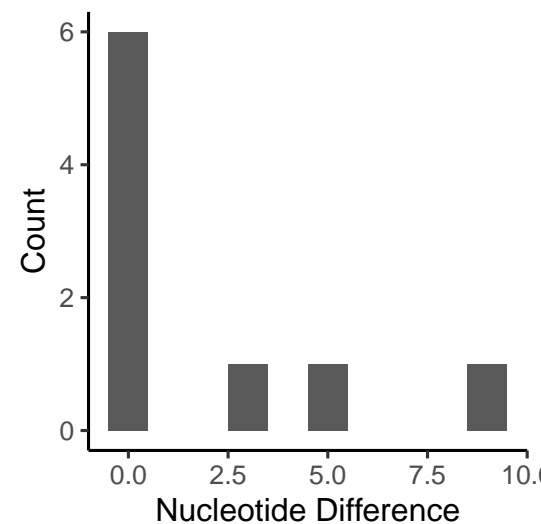
IGHV1–45*02

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



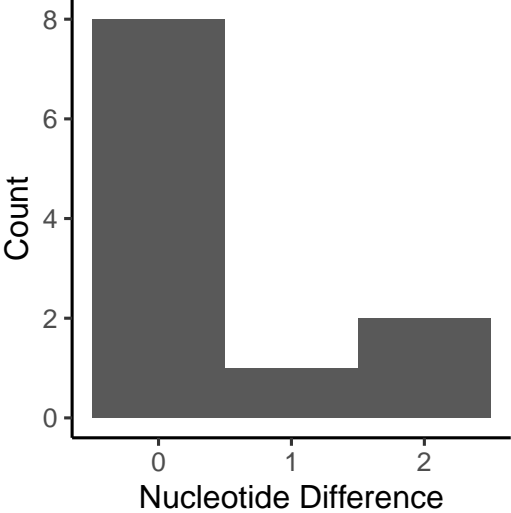
IGHV1–58*01

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



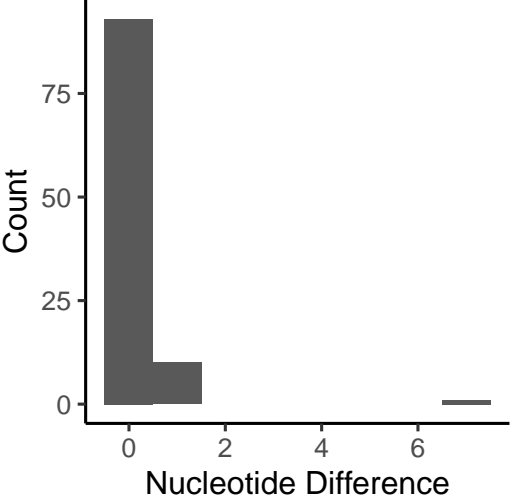
IGHV1-58*02

11 sequences assigned
8 (72.7%) exact matches, in which:
8 unique CDR3
3 unique J



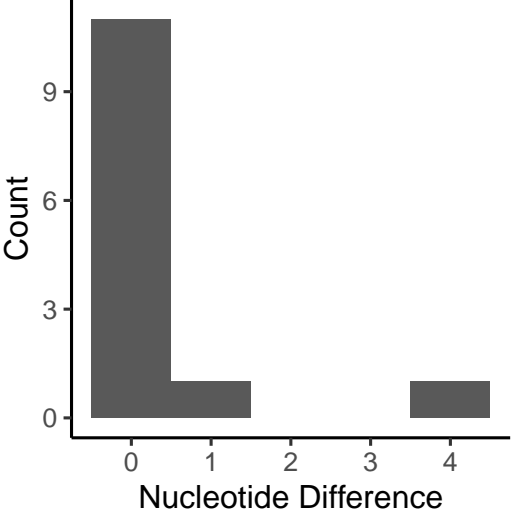
IGHV1-69*10

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



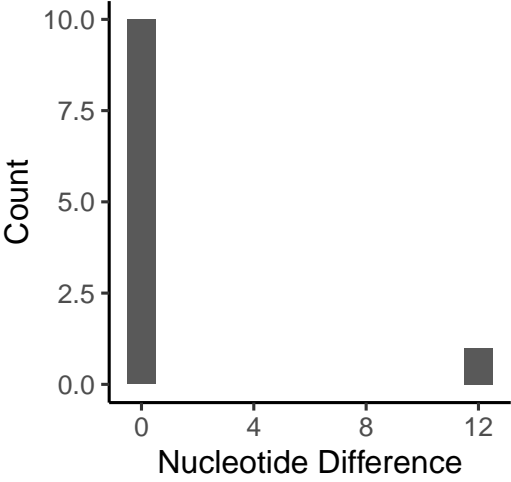
IGHV2-70*01

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



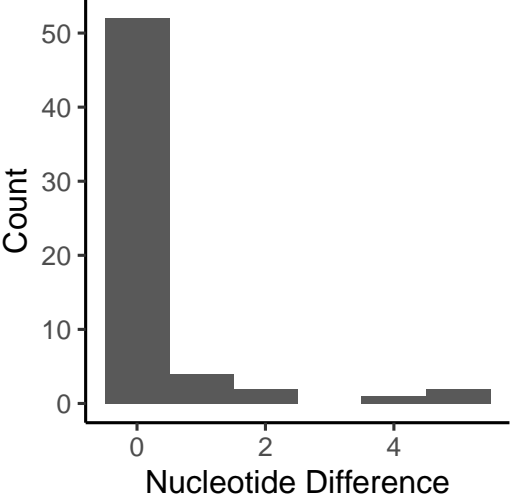
IGHV1-69-2*01

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



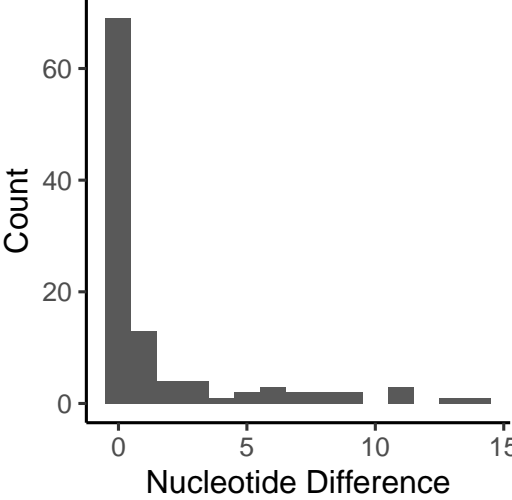
IGHV2-5*01

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



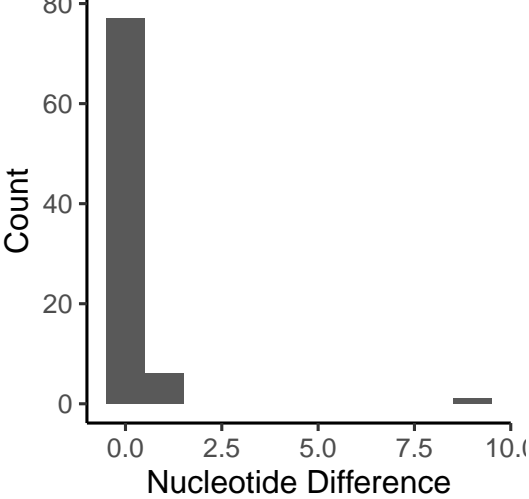
IGHV3-7*01

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



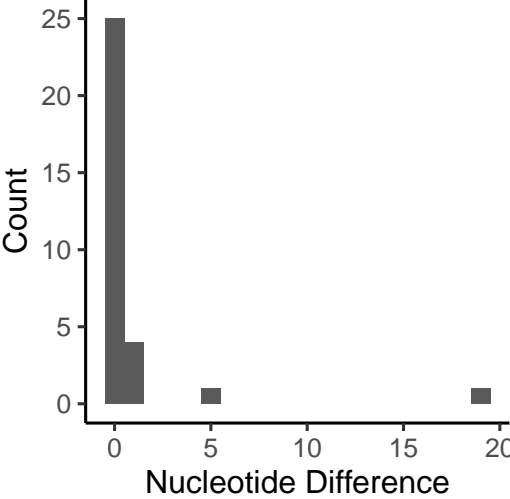
IGHV1-69*06

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



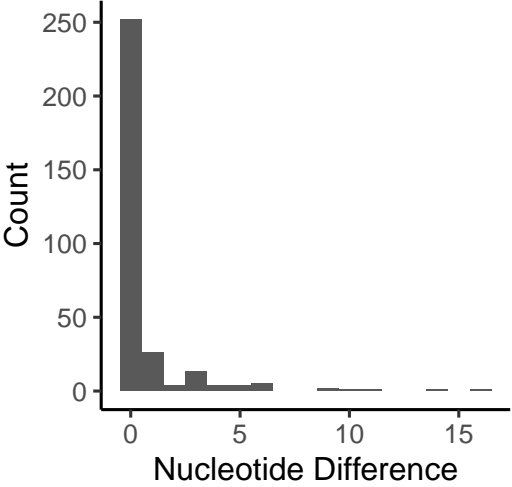
IGHV2-26*01

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



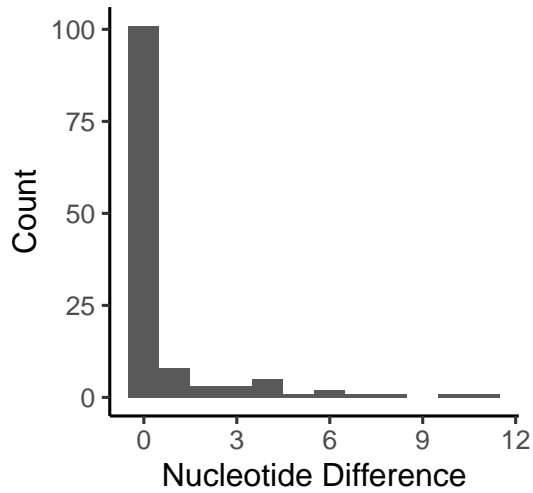
IGHV3-9*01

314 sequences assigned
252 (80.3%) exact matches, in which:
251 unique CDR3
6 unique J



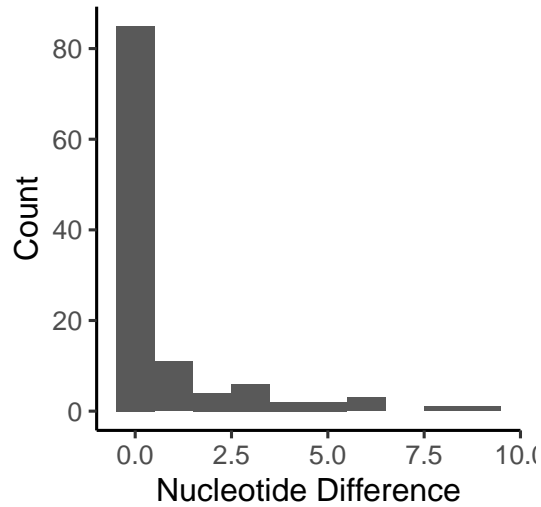
IGHV3-11*01

127 sequences assigned
101 (79.5%) exact matches, in which:
101 unique CDR3
5 unique J



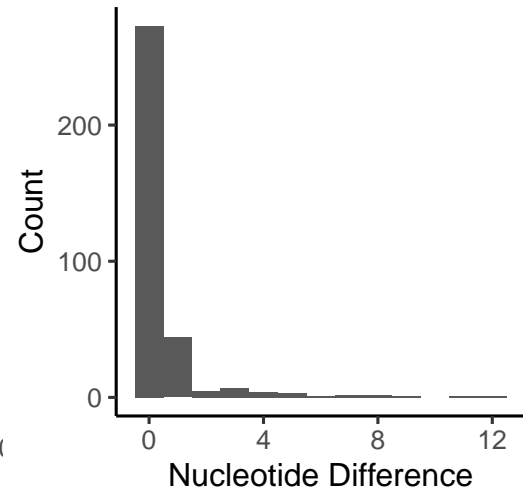
IGHV3-15*07

116 sequences assigned
85 (73.3%) exact matches, in which:
85 unique CDR3
5 unique J



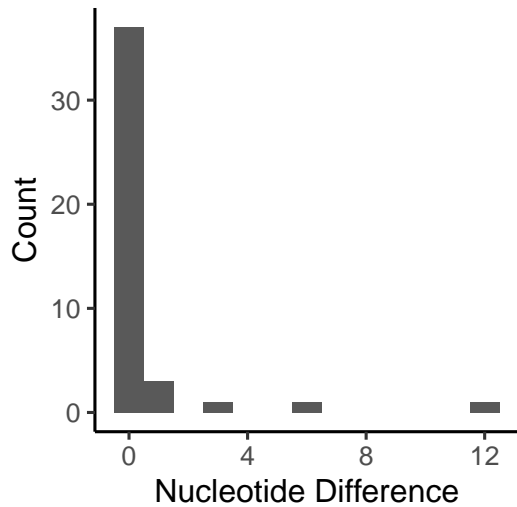
IGHV3-21*01

344 sequences assigned
273 (79.4%) exact matches, in which:
272 unique CDR3
6 unique J



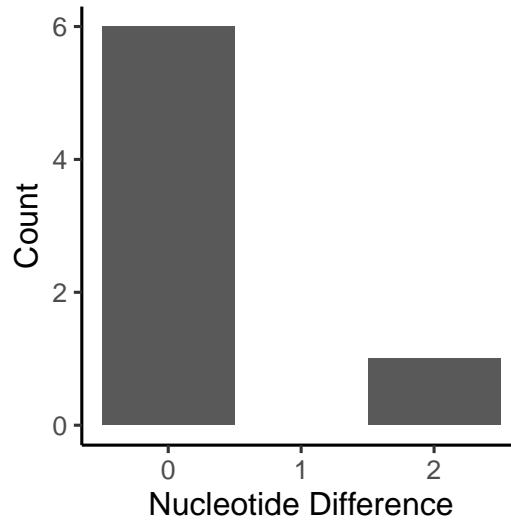
IGHV3-13*01

43 sequences assigned
37 (86%) exact matches, in which:
37 unique CDR3
5 unique J



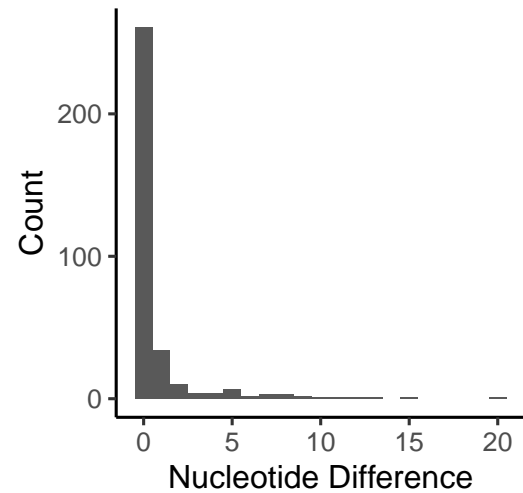
IGHV3-20*01

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



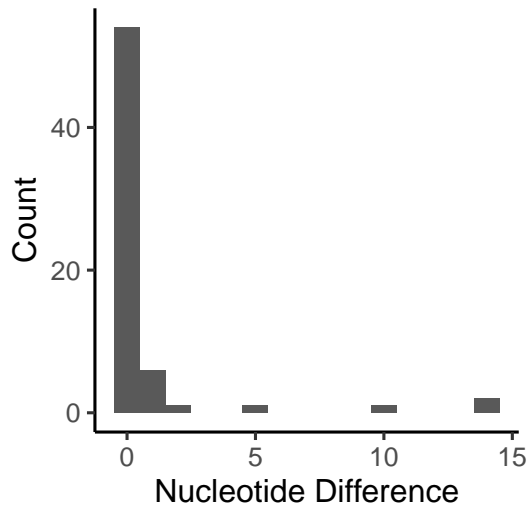
IGHV3-33*01

336 sequences assigned
261 (77.7%) exact matches, in which:
261 unique CDR3
6 unique J



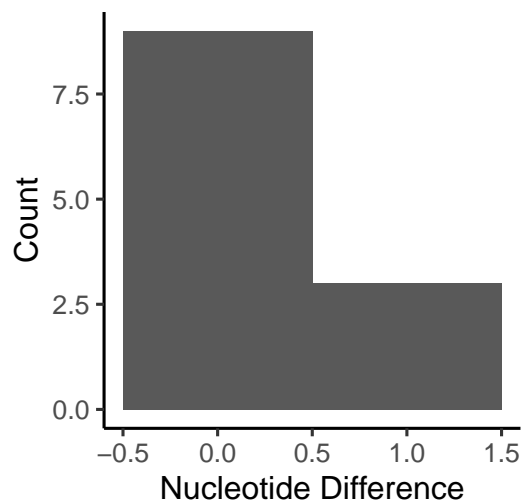
IGHV3-15*01

66 sequences assigned
54 (81.8%) exact matches, in which:
54 unique CDR3
4 unique J



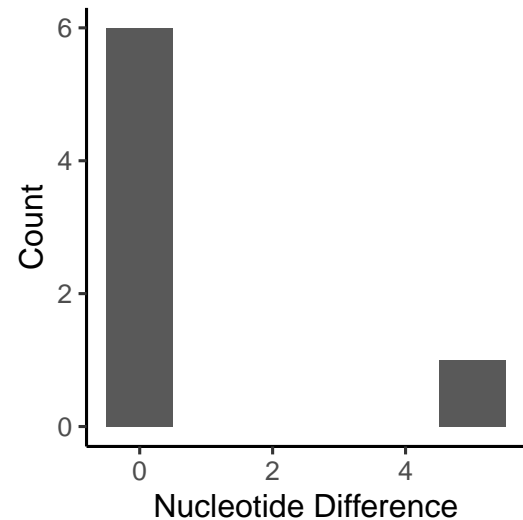
IGHV3-20*04

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



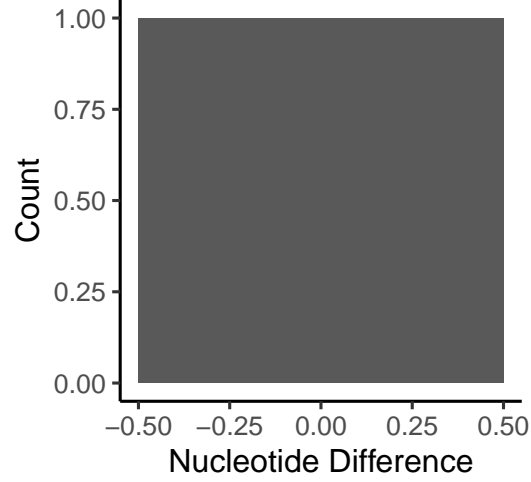
IGHV3-43*01

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



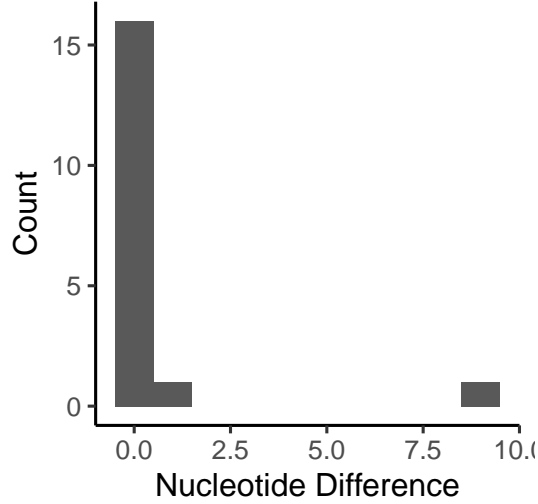
IGHV3-47*02

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



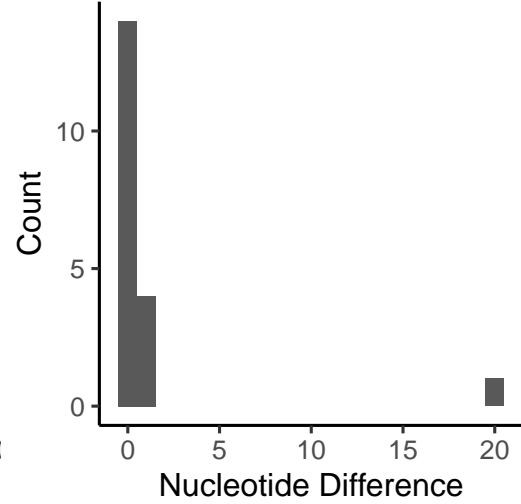
IGHV3-49*03

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



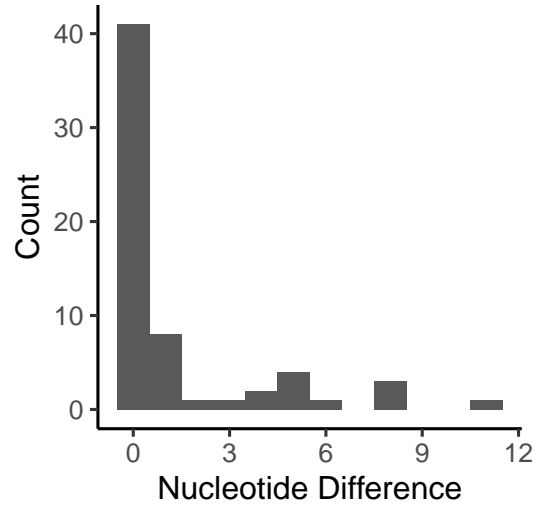
IGHV3-53*02

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



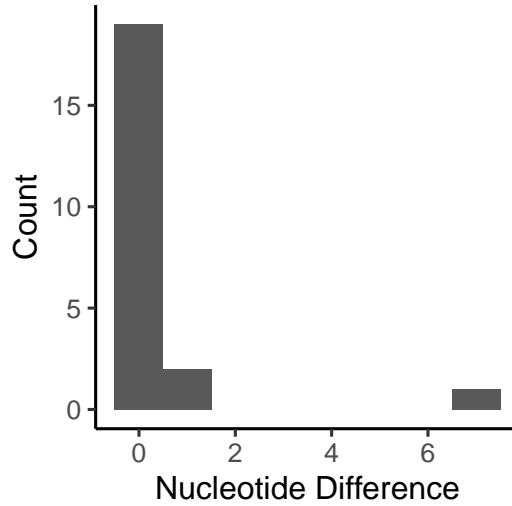
IGHV3-48*01

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



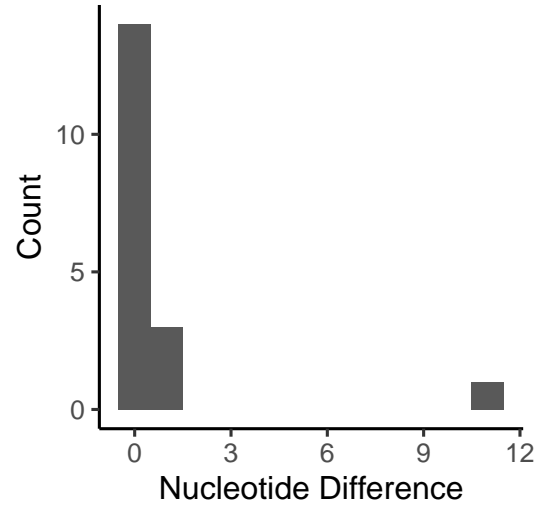
IGHV3-49*05

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



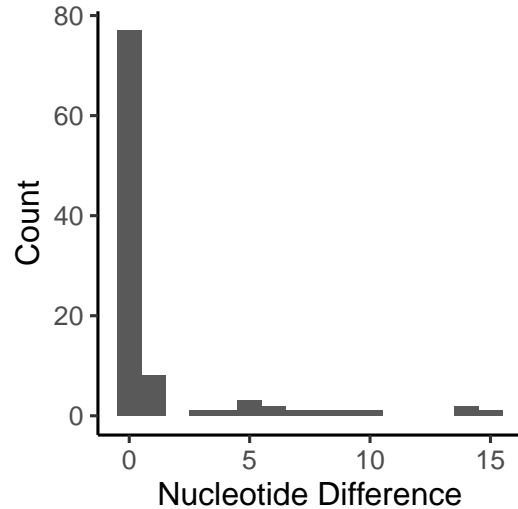
IGHV3-64*01

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



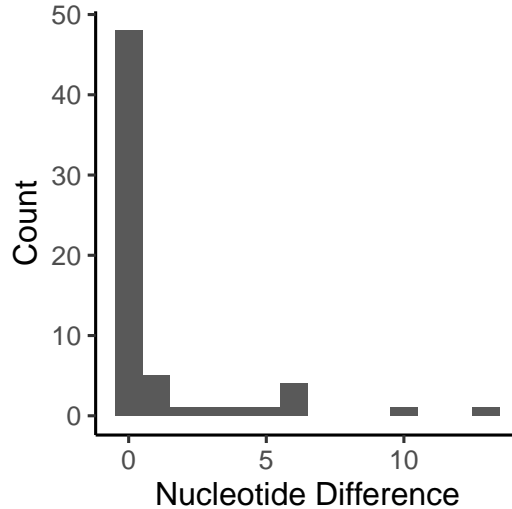
IGHV3-48*02

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



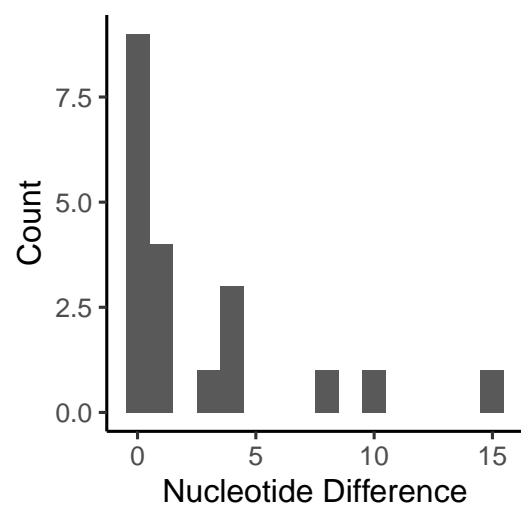
IGHV3-53*01

64 sequences assigned
48 (75%) exact matches, in which:
48 unique CDR3
5 unique J



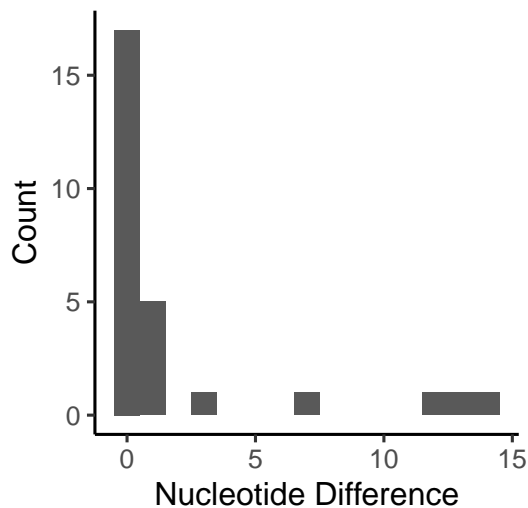
IGHV3-72*01

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



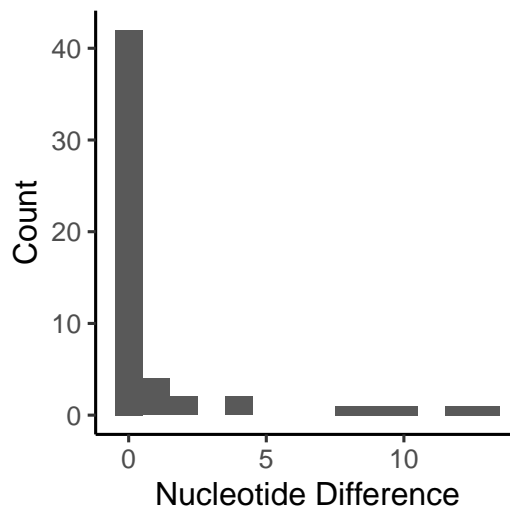
IGHV3-73*01

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



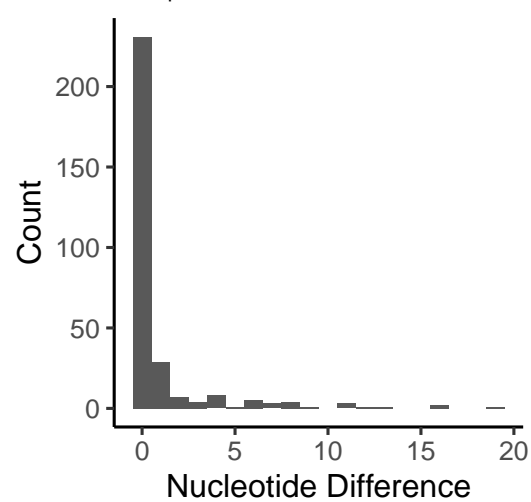
IGHV4-4*07

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



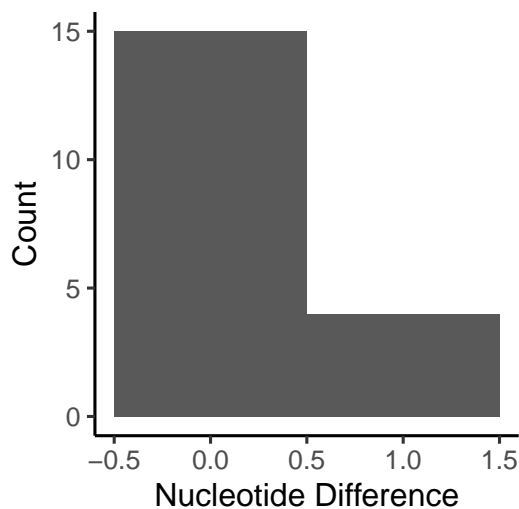
IGHV4-39*01

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



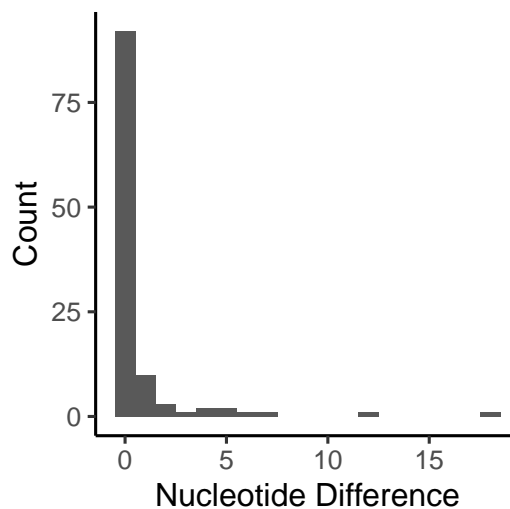
IGHV3-73*02

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



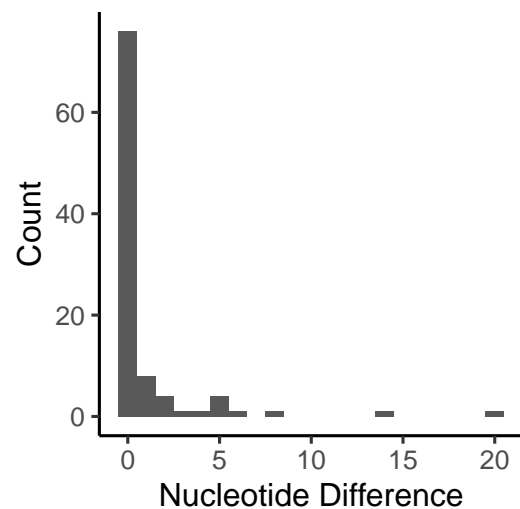
IGHV4-31*03

114 sequences assigned
92 (80.7%) exact matches, in which:
91 unique CDR3
6 unique J



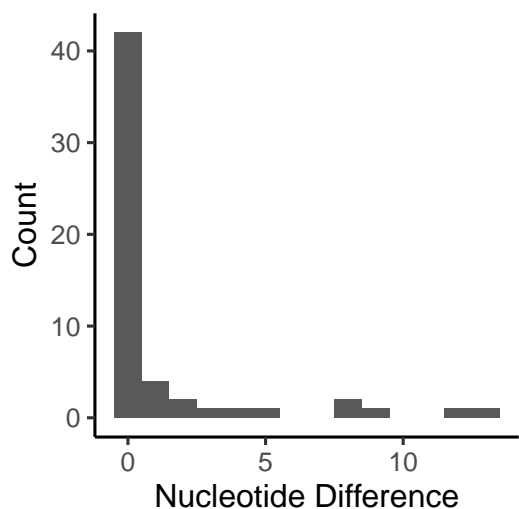
IGHV4-59*01

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



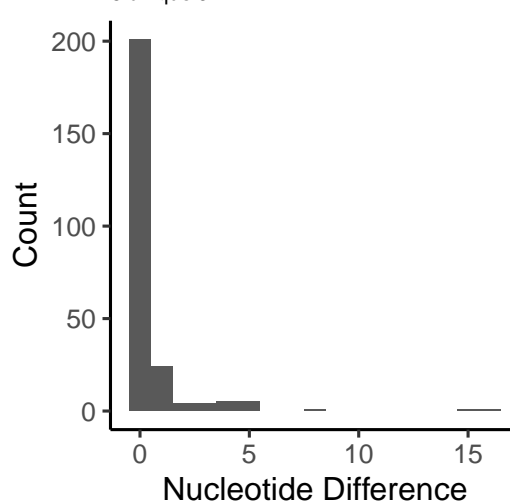
IGHV3-74*01

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



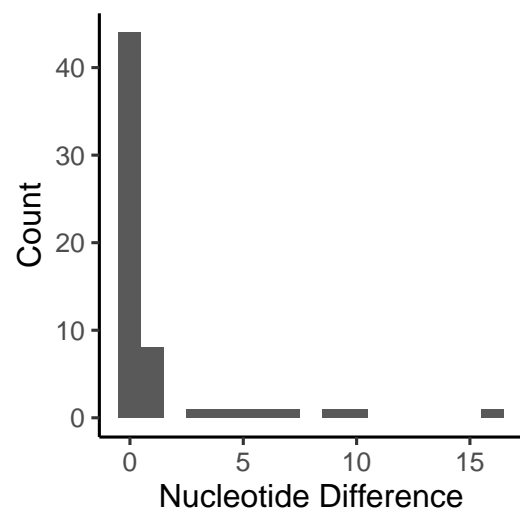
IGHV4-34*01

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



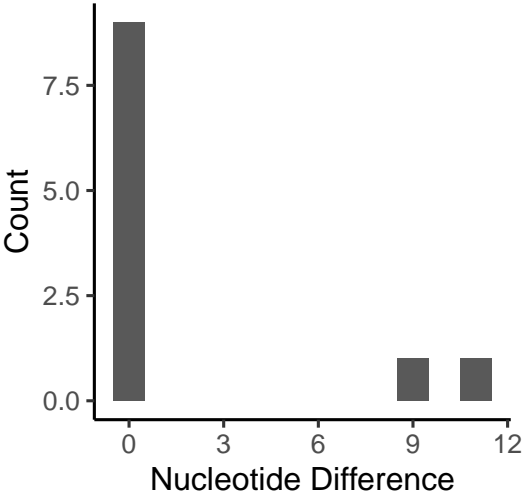
IGHV4-59*08

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



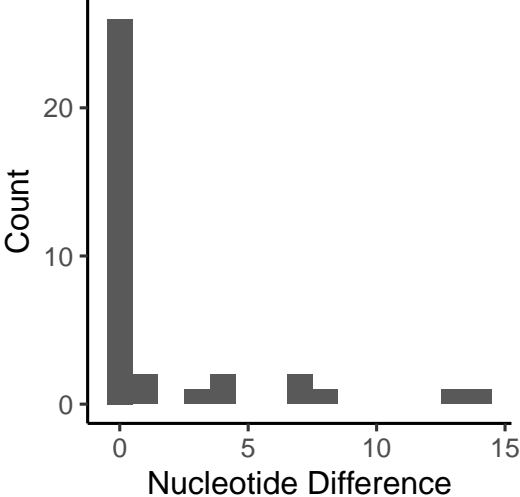
IGHV4-61*01

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



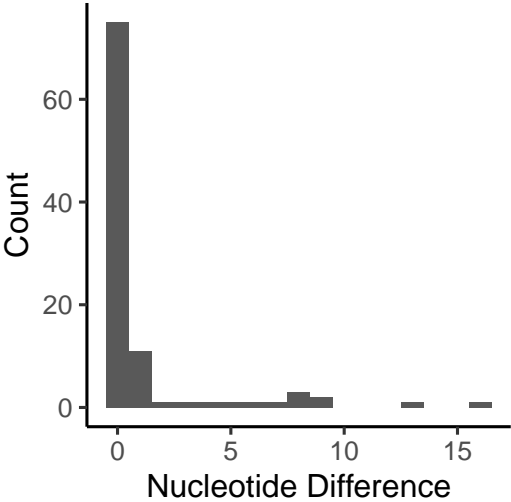
IGHV6-1*01

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



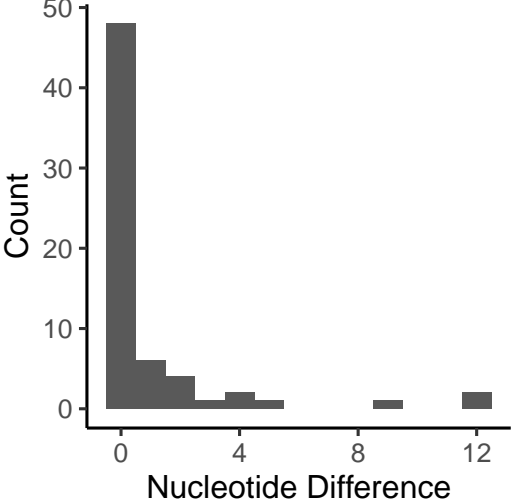
IGHV5-51*01

99 sequences assigned
75 (75.8%) exact matches, in which:
75 unique CDR3
5 unique J



IGHV5-51*01_C45G

65 sequences assigned
48 (73.8%) exact matches, in which:
48 unique CDR3
5 unique J





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