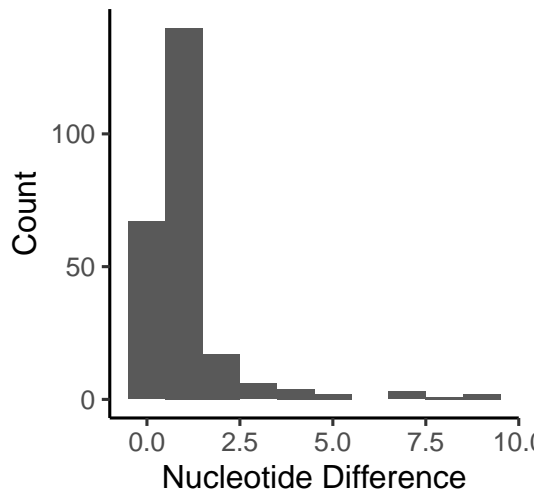


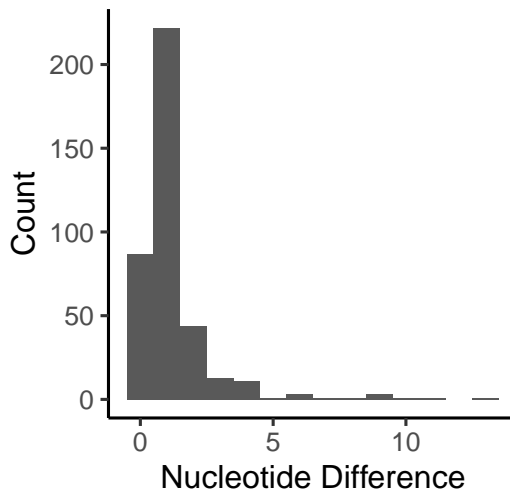
IGHV1-2*02

242 sequences assigned
67 (27.7%) exact matches, in which:
50 unique CDR3
3 unique J



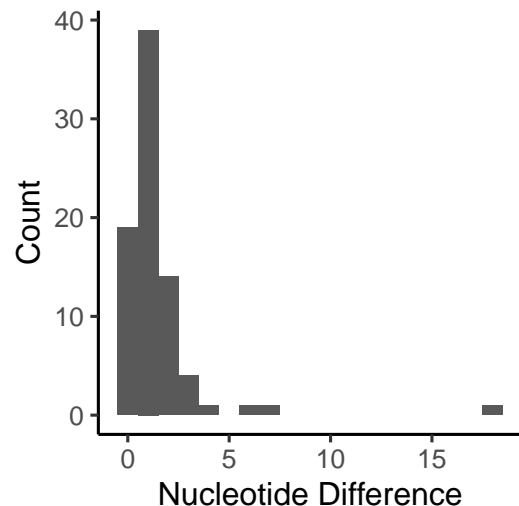
IGHV1-8*01

389 sequences assigned
87 (22.4%) exact matches, in which:
55 unique CDR3
5 unique J



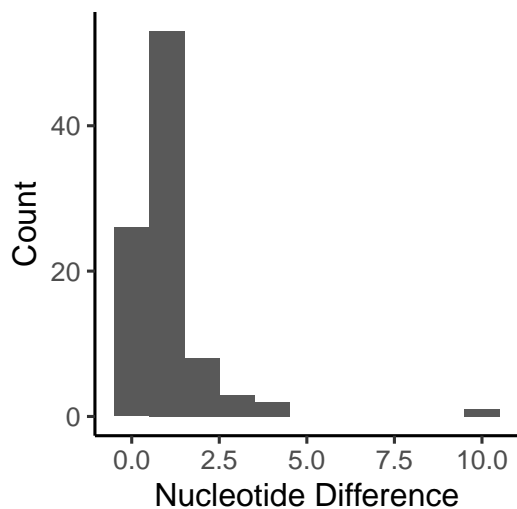
IGHV1-24*01

80 sequences assigned
19 (23.8%) exact matches, in which:
14 unique CDR3
3 unique J



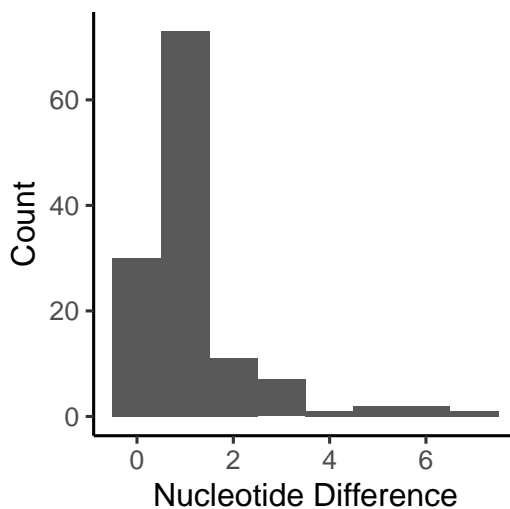
IGHV1-2*04

93 sequences assigned
26 (28%) exact matches, in which:
23 unique CDR3
4 unique J



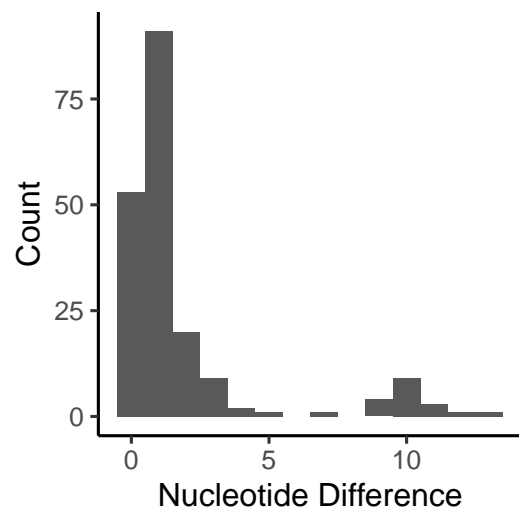
IGHV1-18*01

127 sequences assigned
30 (23.6%) exact matches, in which:
24 unique CDR3
4 unique J



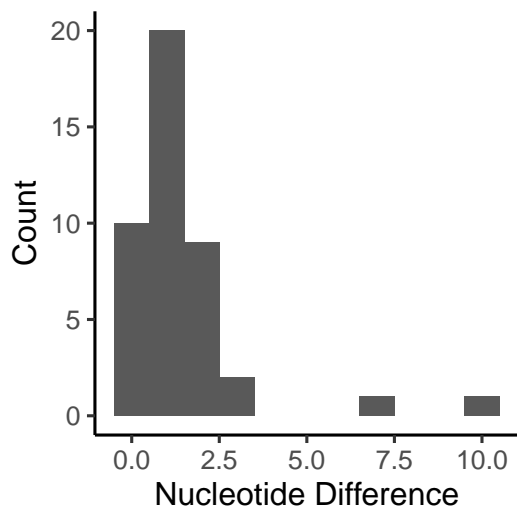
IGHV1-46*01

195 sequences assigned
53 (27.2%) exact matches, in which:
36 unique CDR3
3 unique J



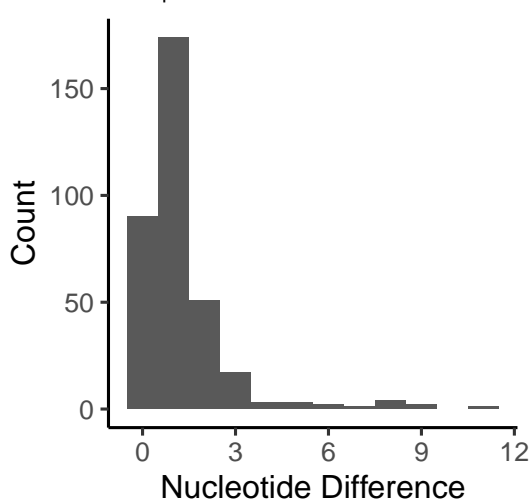
IGHV1-3*01_05

43 sequences assigned
10 (23.3%) exact matches, in which:
6 unique CDR3
3 unique J



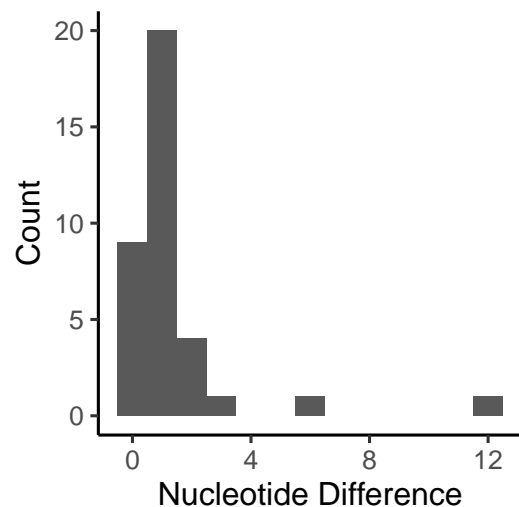
IGHV1-18*04

348 sequences assigned
90 (25.9%) exact matches, in which:
64 unique CDR3
5 unique J



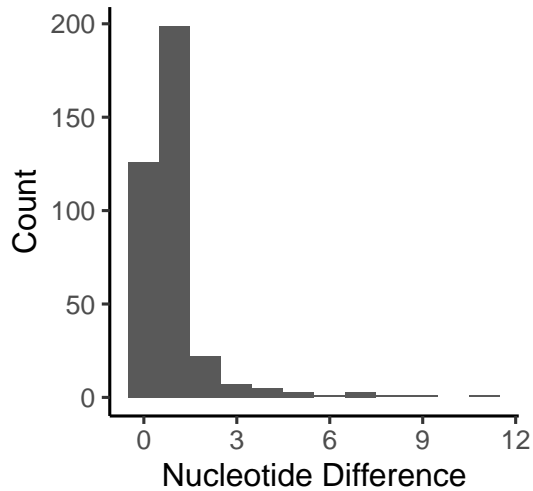
IGHV1-58*01_03

36 sequences assigned
9 (25%) exact matches, in which:
8 unique CDR3
4 unique J



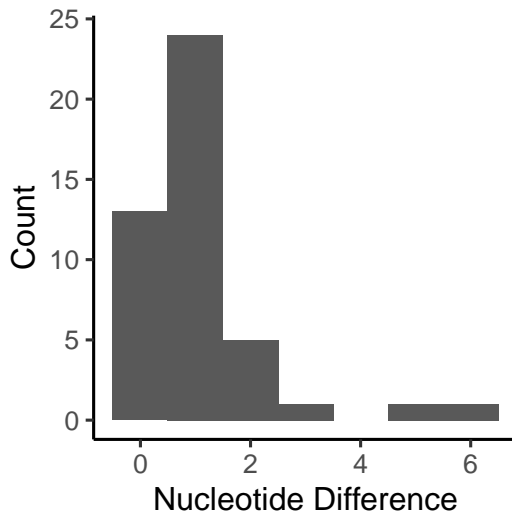
IGHV1–69*01_12_13

369 sequences assigned
126 (34.1%) exact matches, in which:
91 unique CDR3
6 unique J



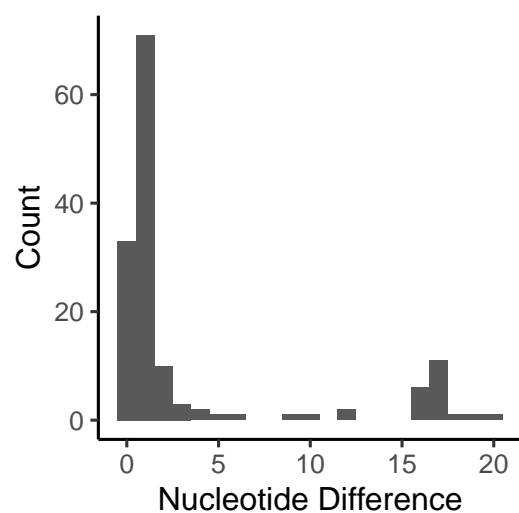
IGHV2–5*02

45 sequences assigned
13 (28.9%) exact matches, in which:
8 unique CDR3
3 unique J



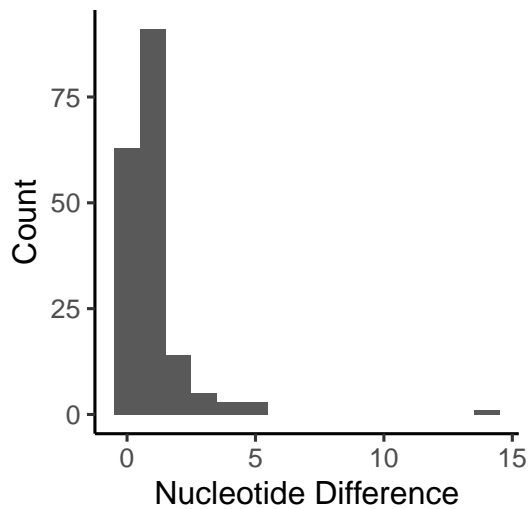
IGHV3–7*01

145 sequences assigned
33 (22.8%) exact matches, in which:
24 unique CDR3
5 unique J



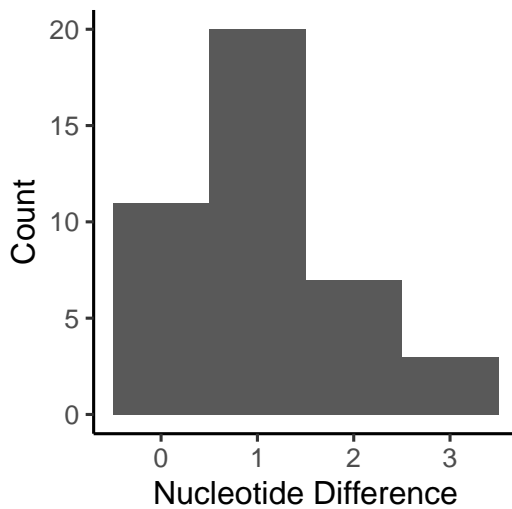
IGHV1–69*06_14

184 sequences assigned
63 (34.2%) exact matches, in which:
48 unique CDR3
5 unique J



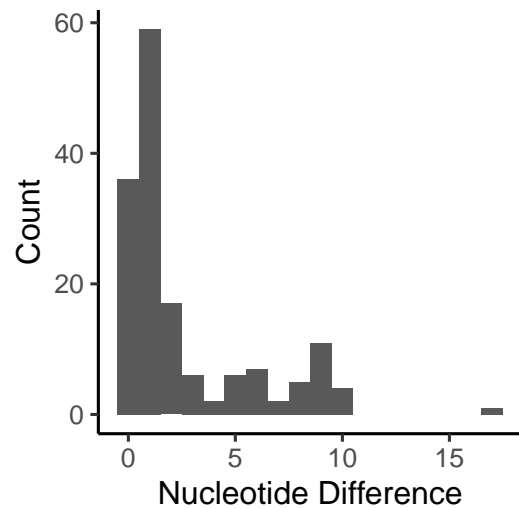
IGHV2–26*01

41 sequences assigned
11 (26.8%) exact matches, in which:
10 unique CDR3
4 unique J



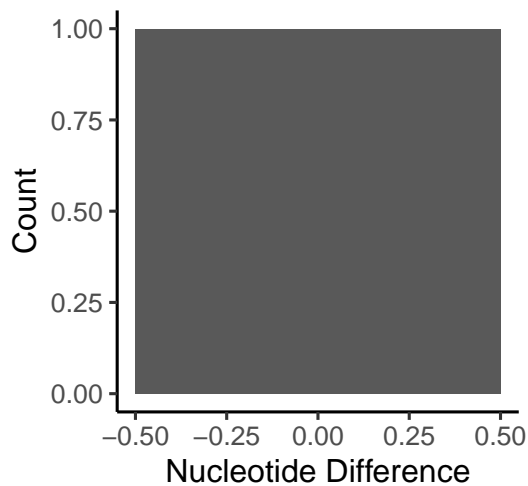
IGHV3–7*03

156 sequences assigned
36 (23.1%) exact matches, in which:
27 unique CDR3
3 unique J



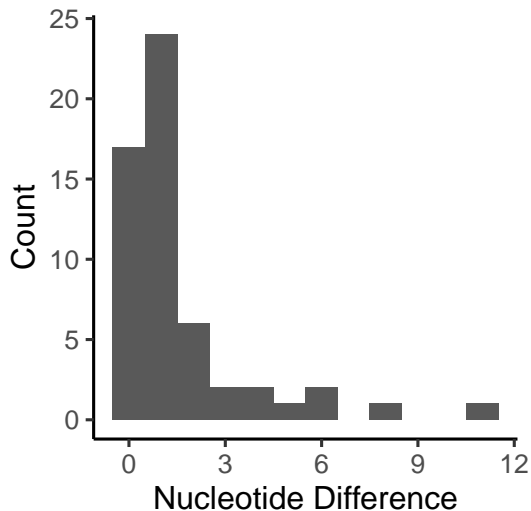
IGHV2–5*01

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



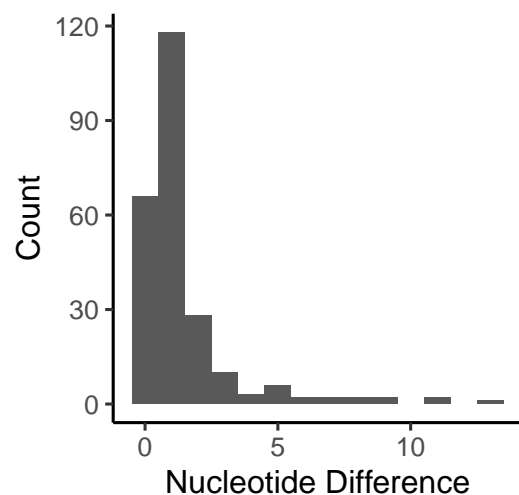
IGHV2–70*11_15

56 sequences assigned
17 (30.4%) exact matches, in which:
10 unique CDR3
3 unique J



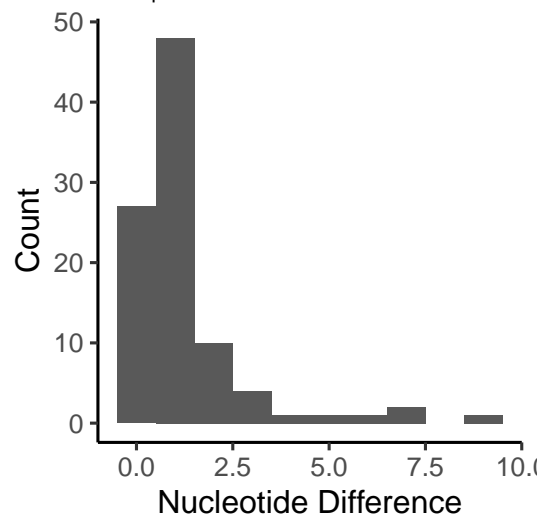
IGHV3–9*01

242 sequences assigned
66 (27.3%) exact matches, in which:
50 unique CDR3
5 unique J



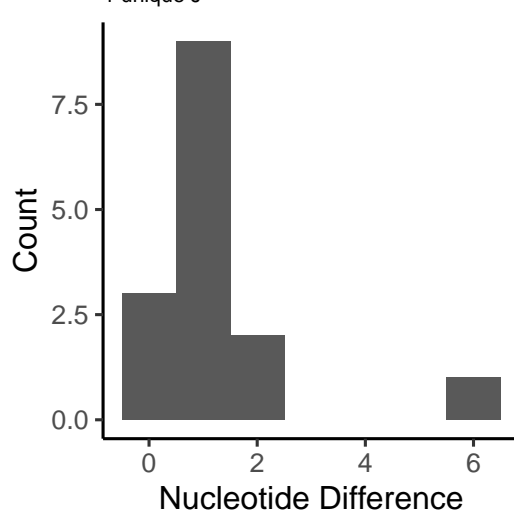
IGHV3-11*01

95 sequences assigned
27 (28.4%) exact matches, in which:
23 unique CDR3
4 unique J



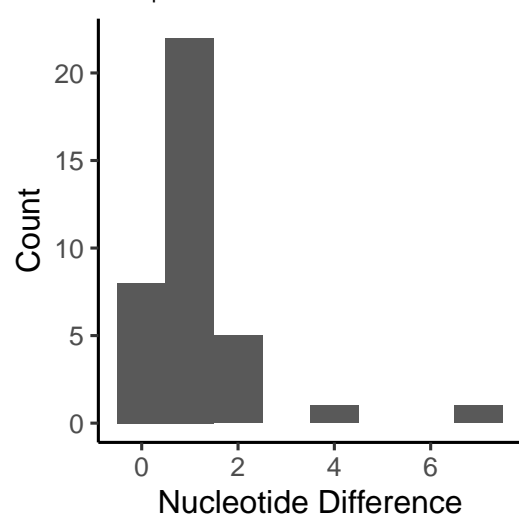
IGHV3-13*05

15 sequences assigned
3 (20%) exact matches, in which:
3 unique CDR3
1 unique J



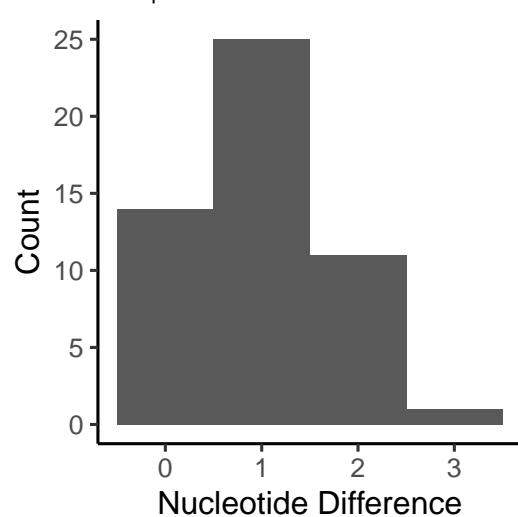
IGHV3-20*03_04

37 sequences assigned
8 (21.6%) exact matches, in which:
6 unique CDR3
2 unique J



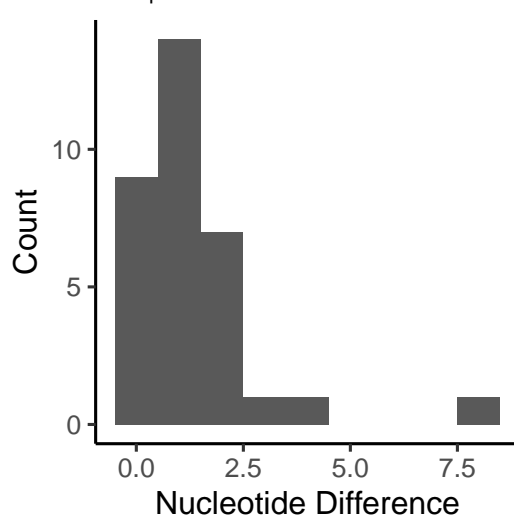
IGHV3-11*06

51 sequences assigned
14 (27.5%) exact matches, in which:
12 unique CDR3
3 unique J



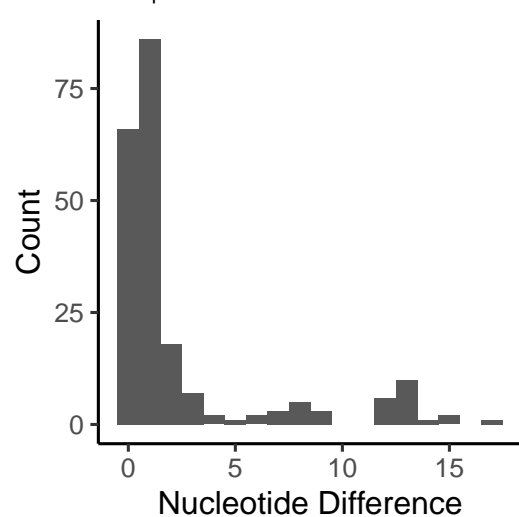
IGHV3-15*07

33 sequences assigned
9 (27.3%) exact matches, in which:
8 unique CDR3
4 unique J



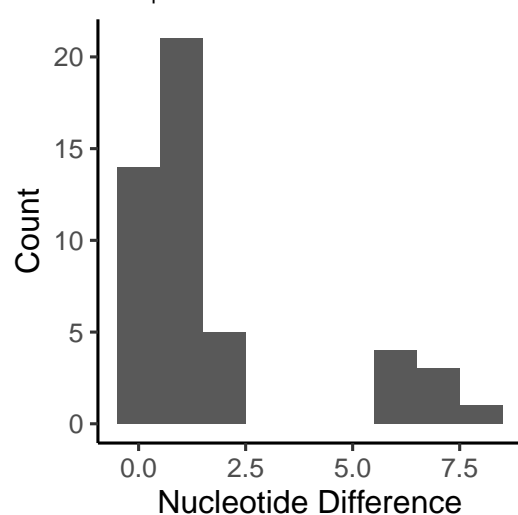
IGHV3-21*01_02

214 sequences assigned
66 (30.8%) exact matches, in which:
48 unique CDR3
6 unique J



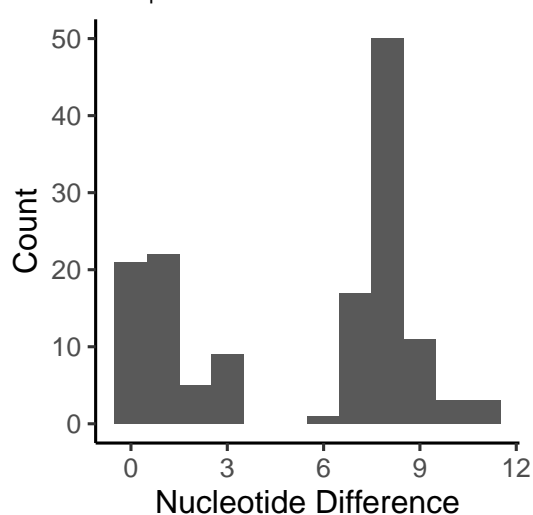
IGHV3-13*01

48 sequences assigned
14 (29.2%) exact matches, in which:
9 unique CDR3
3 unique J



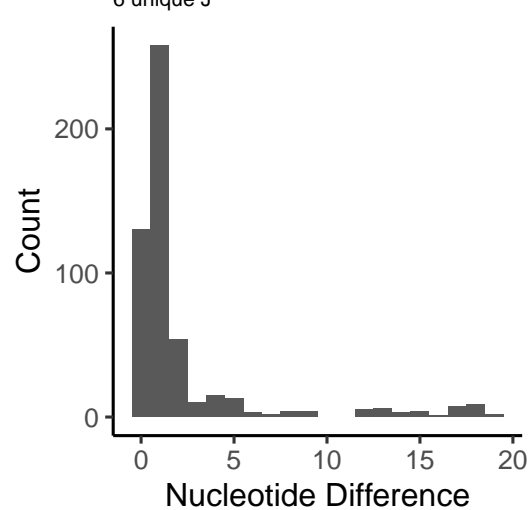
IGHV3-15*01_02

144 sequences assigned
21 (14.6%) exact matches, in which:
15 unique CDR3
3 unique J



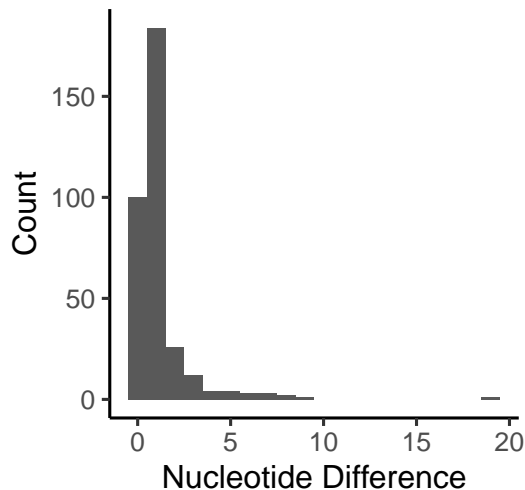
IGHV3-23*01_04

536 sequences assigned
130 (24.3%) exact matches, in which:
94 unique CDR3
6 unique J



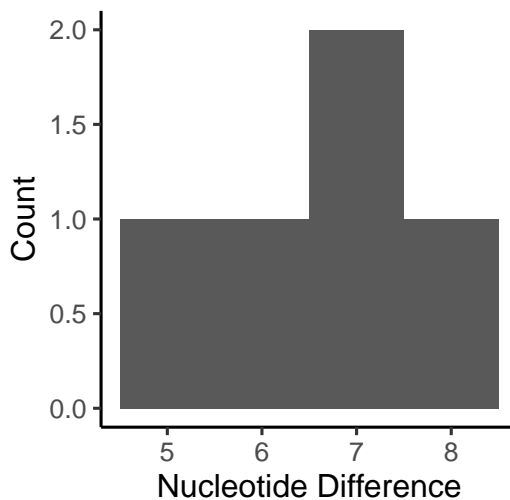
IGHV3-30-3*01

340 sequences assigned
100 (29.4%) exact matches, in which:
70 unique CDR3
5 unique J



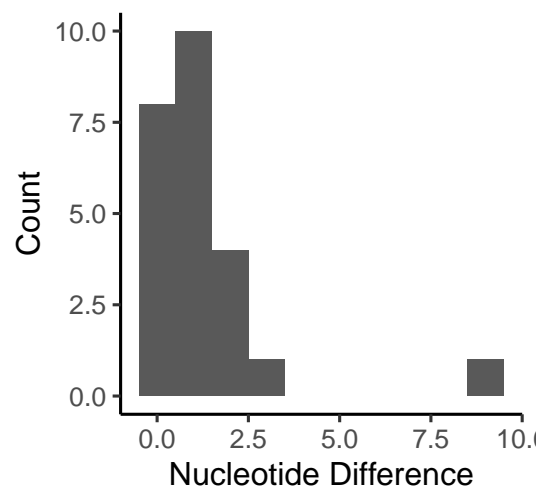
IGHV3-48*01

5 sequences assigned
No exact matches.



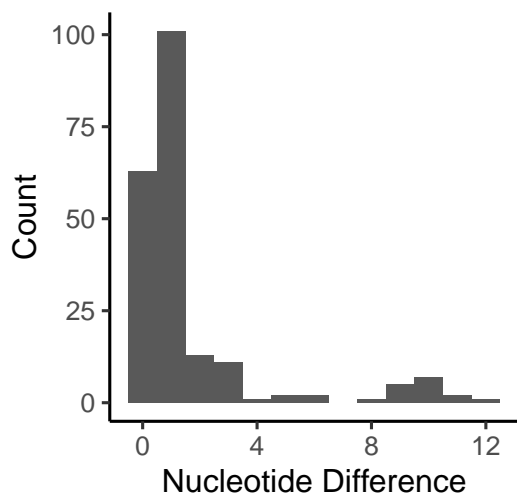
IGHV3-49*03_05

24 sequences assigned
8 (33.3%) exact matches, in which:
6 unique CDR3
3 unique J



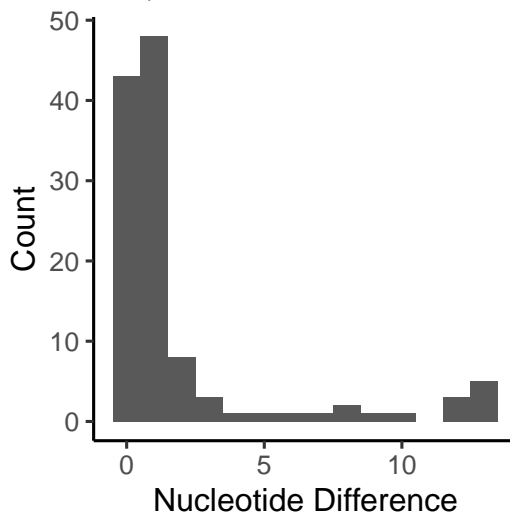
IGHV3-33*01

209 sequences assigned
63 (30.1%) exact matches, in which:
45 unique CDR3
4 unique J



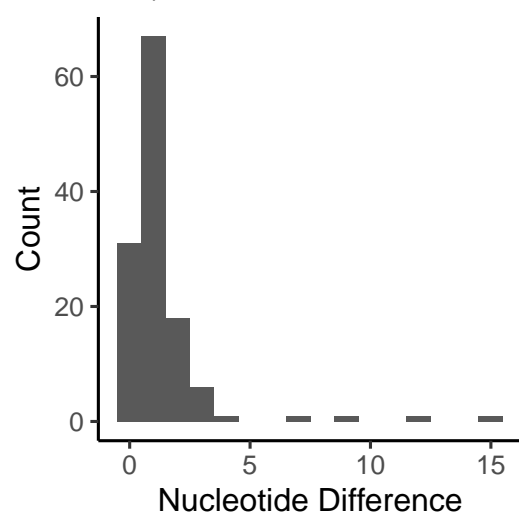
IGHV3-48*02

118 sequences assigned
43 (36.4%) exact matches, in which:
31 unique CDR3
5 unique J



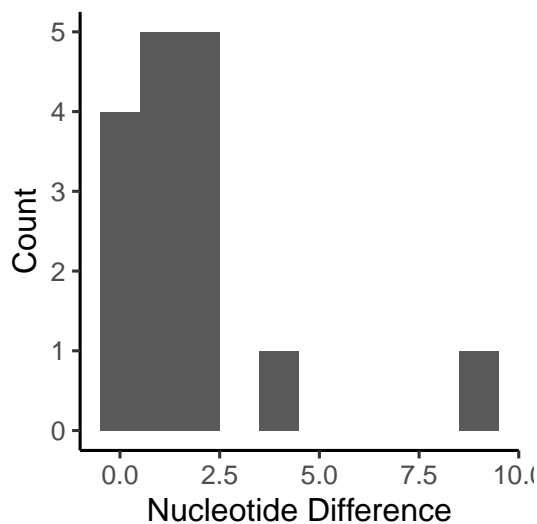
IGHV3-53*01_02

127 sequences assigned
31 (24.4%) exact matches, in which:
22 unique CDR3
5 unique J



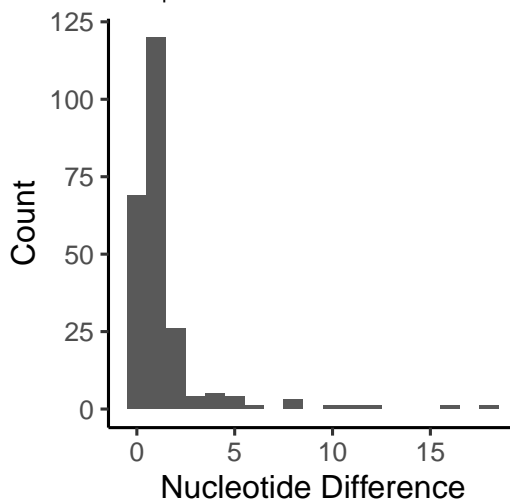
IGHV3-43*01

16 sequences assigned
4 (25%) exact matches, in which:
3 unique CDR3
2 unique J



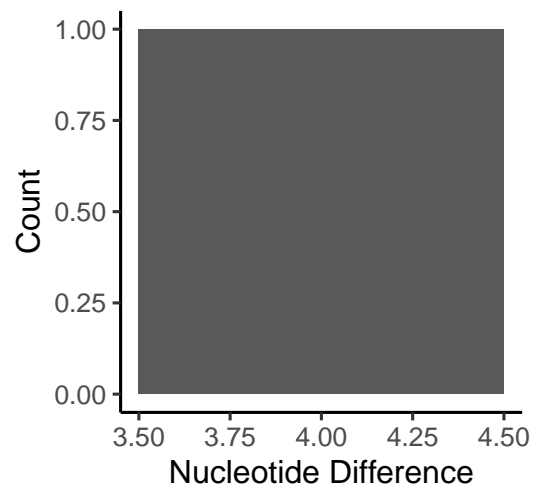
IGHV3-48*04

237 sequences assigned
69 (29.1%) exact matches, in which:
46 unique CDR3
5 unique J



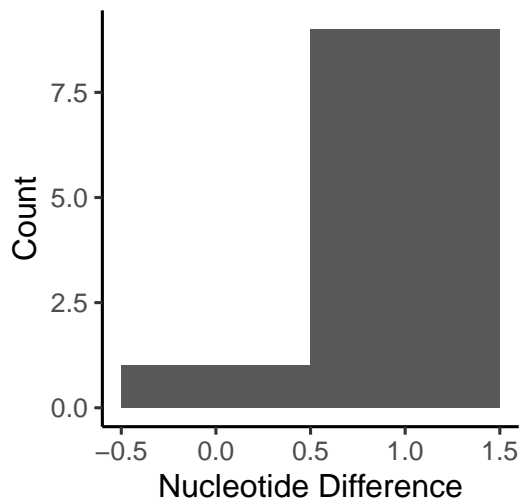
IGHV3-64*04

1 sequences assigned
No exact matches.



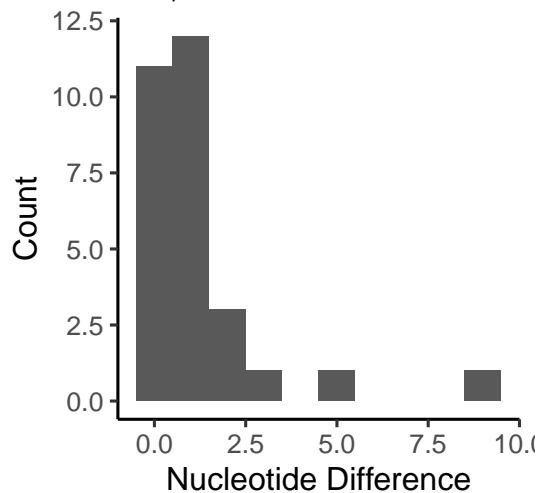
IGHV3-64*02_07

10 sequences assigned
1 (10%) exact matches, in which:
1 unique CDR3
1 unique J



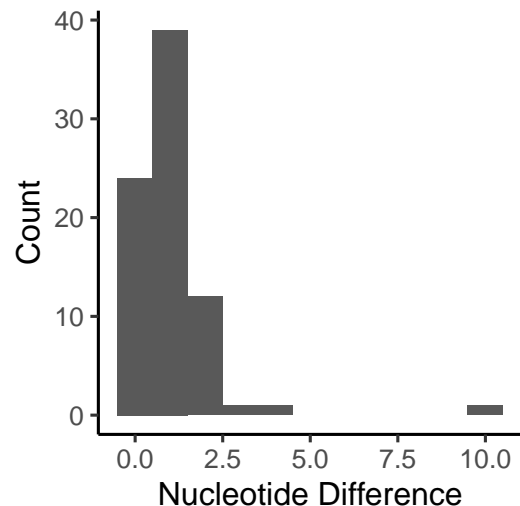
IGHV3-73*01_02

29 sequences assigned
11 (37.9%) exact matches, in which:
10 unique CDR3
2 unique J



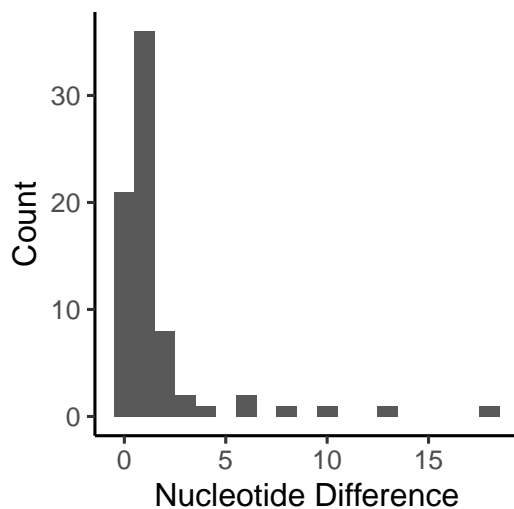
IGHV3-64D*09

78 sequences assigned
24 (30.8%) exact matches, in which:
17 unique CDR3
4 unique J



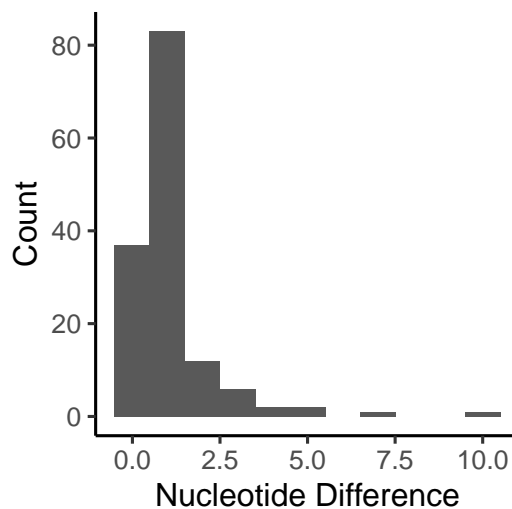
IGHV3-66*01

75 sequences assigned
21 (28%) exact matches, in which:
14 unique CDR3
3 unique J



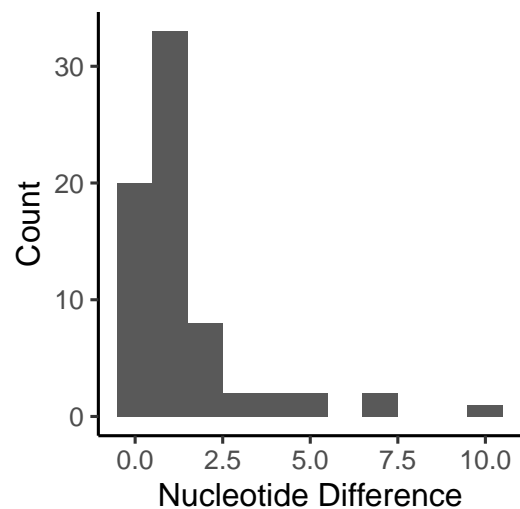
IGHV3-74*01_02

144 sequences assigned
37 (25.7%) exact matches, in which:
27 unique CDR3
2 unique J



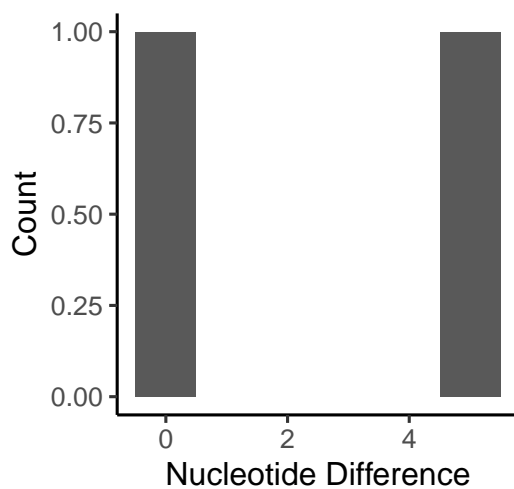
IGHV4-4*07

70 sequences assigned
20 (28.6%) exact matches, in which:
14 unique CDR3
4 unique J



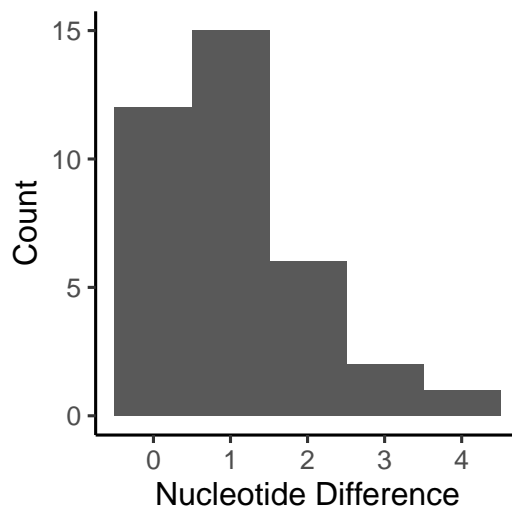
IGHV3-72*01

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



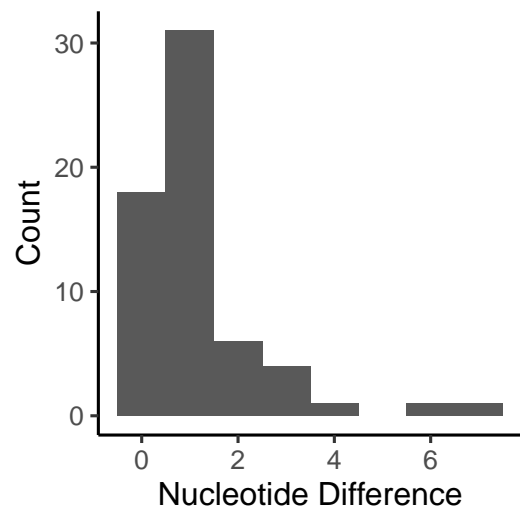
IGHV3-43D*03

36 sequences assigned
12 (33.3%) exact matches, in which:
9 unique CDR3
3 unique J



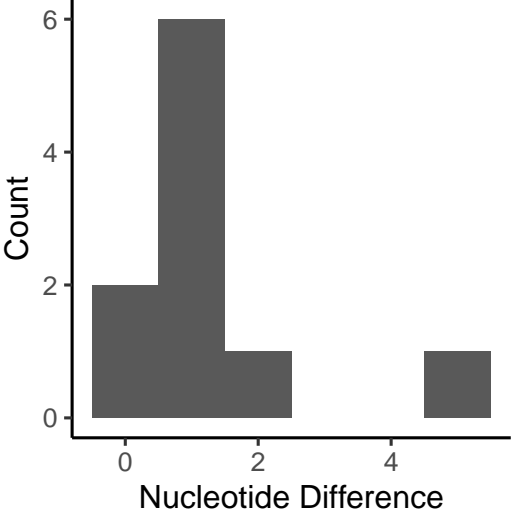
IGHV4-4*02_03

62 sequences assigned
18 (29%) exact matches, in which:
15 unique CDR3
4 unique J



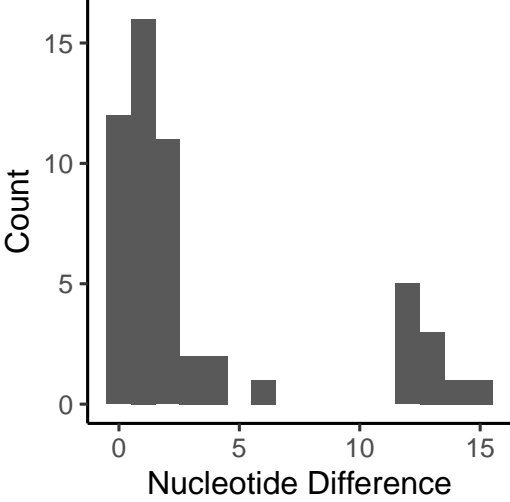
IGHV4-28*01_07

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



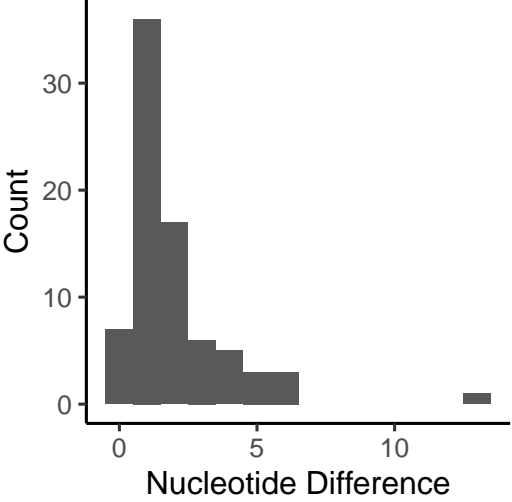
IGHV4-31*02

56 sequences assigned
12 (21.4%) exact matches, in which:
11 unique CDR3
5 unique J



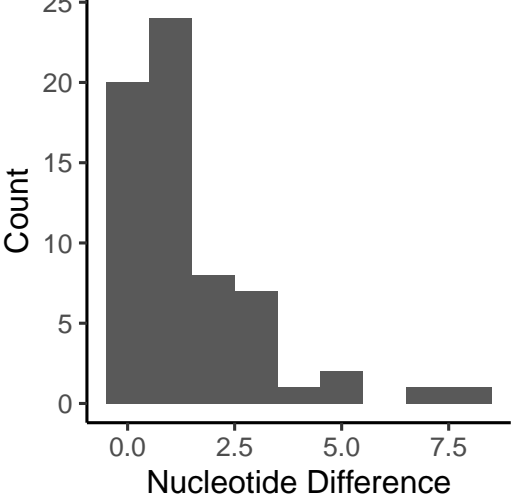
IGHV4-38-2*02

78 sequences assigned
7 (9%) exact matches, in which:
5 unique CDR3
4 unique J



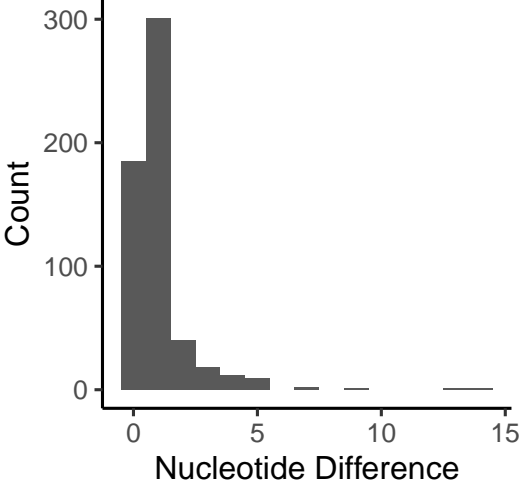
IGHV4-30-2*01

65 sequences assigned
20 (30.8%) exact matches, in which:
16 unique CDR3
5 unique J



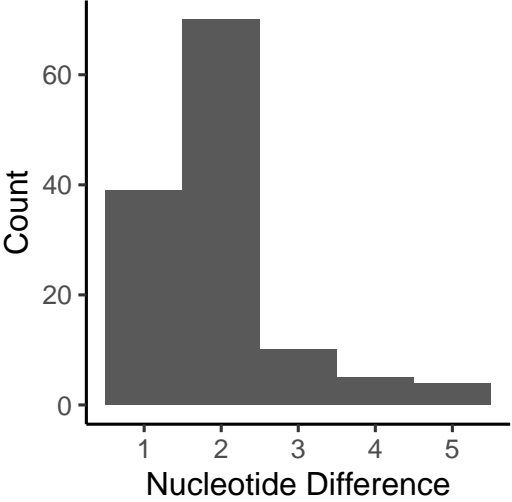
IGHV4-34*01_02

570 sequences assigned
185 (32.5%) exact matches, in which:
117 unique CDR3
6 unique J



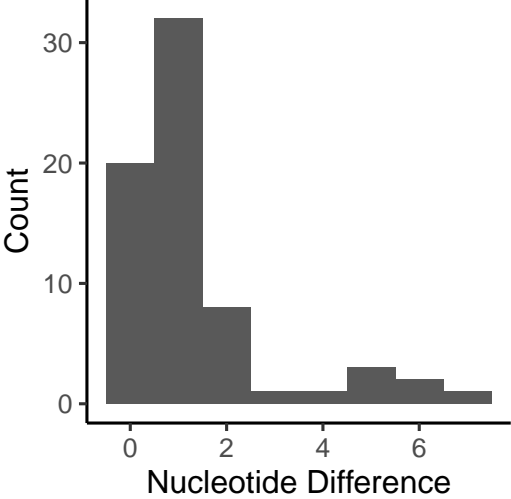
IGHV4-39*02

128 sequences assigned
No exact matches.



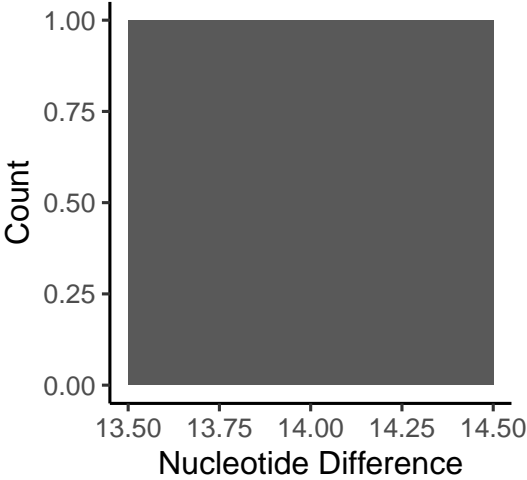
IGHV4-30-4*01

68 sequences assigned
20 (29.4%) exact matches, in which:
13 unique CDR3
4 unique J



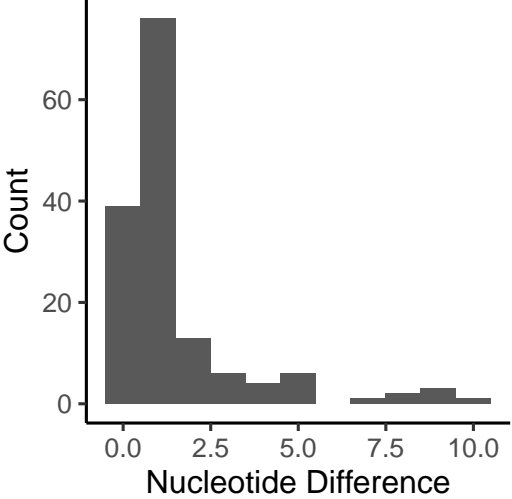
IGHV4-38-2*01

1 sequences assigned
No exact matches.



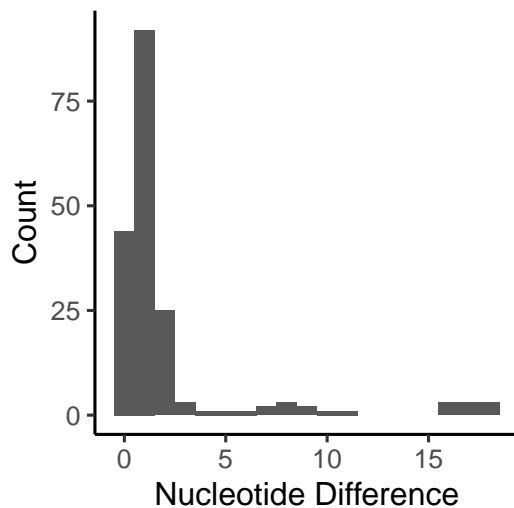
IGHV4-39*07

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



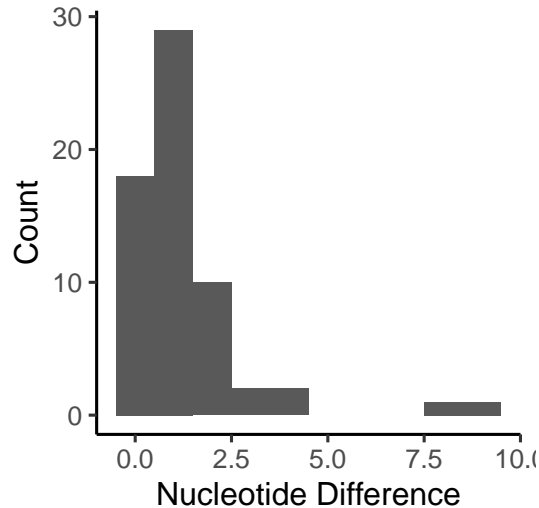
IGHV4-59*01_07

185 sequences assigned
44 (23.8%) exact matches, in which:
33 unique CDR3
4 unique J



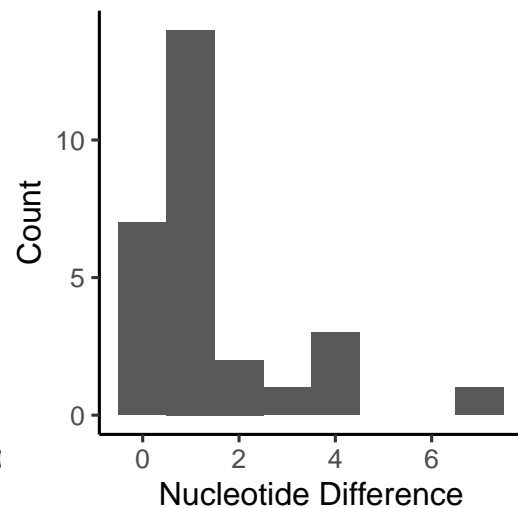
IGHV5-10-1*01_03

63 sequences assigned
18 (28.6%) exact matches, in which:
11 unique CDR3
3 unique J



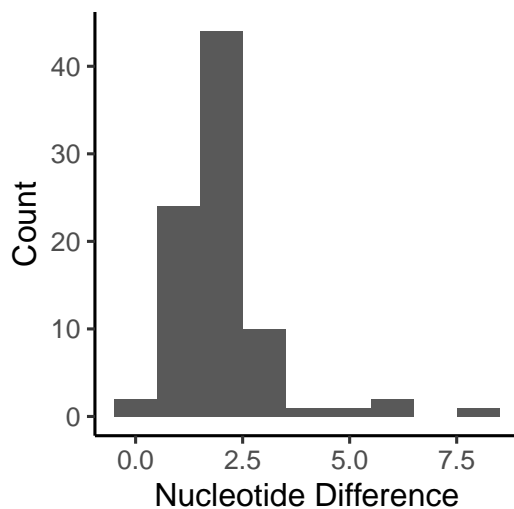
IGHV6-1*01_02

28 sequences assigned
7 (25%) exact matches, in which:
5 unique CDR3
2 unique J



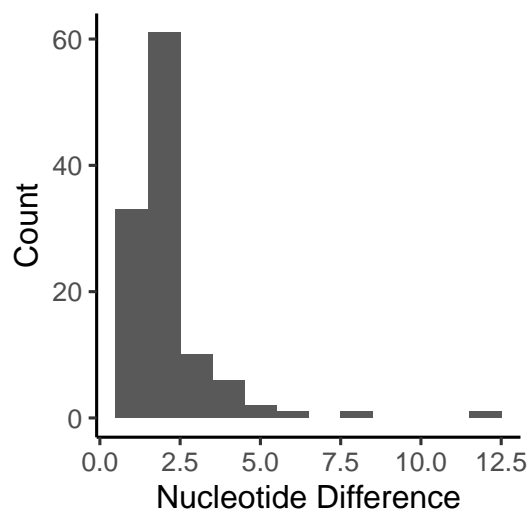
IGHV4-59*12

85 sequences assigned
2 (2.4%) exact matches, in which:
2 unique CDR3
1 unique J



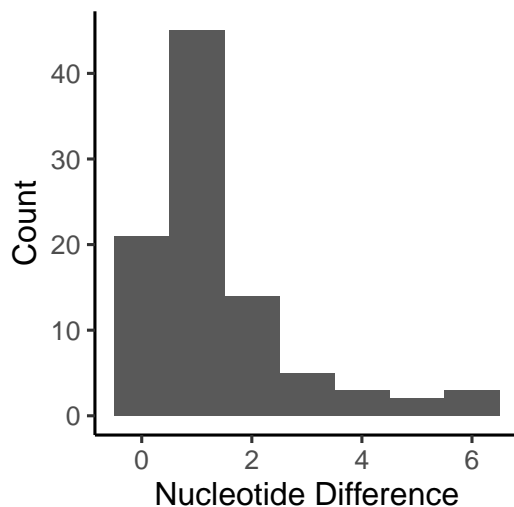
IGHV5-51*07

115 sequences assigned
No exact matches.



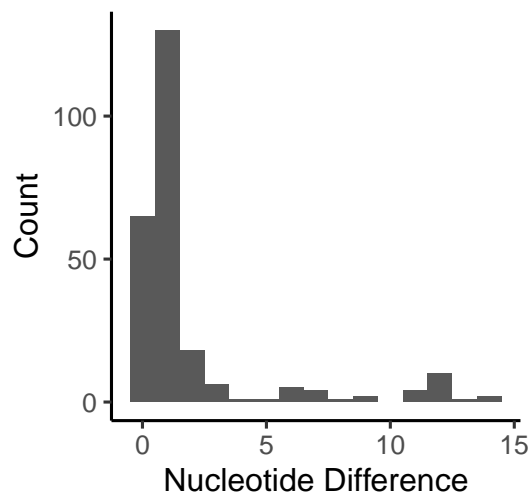
IGHV4-61*01

93 sequences assigned
21 (22.6%) exact matches, in which:
17 unique CDR3
4 unique J



IGHV5-51*01_03

250 sequences assigned
65 (26%) exact matches, in which:
50 unique CDR3
5 unique J





Warning – no inferred sequences found.

Warning – no inferred sequences found.

Warning – no inferred sequences found.

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