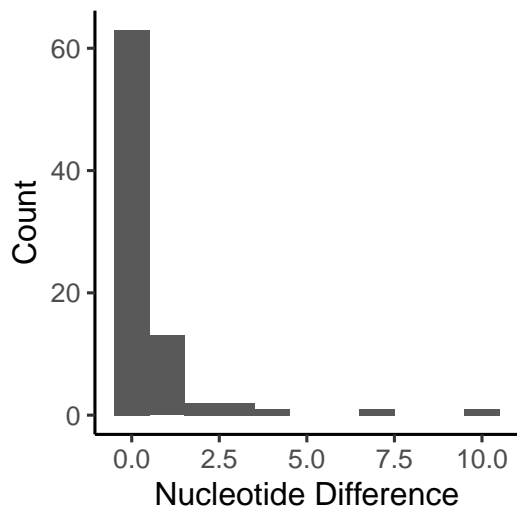


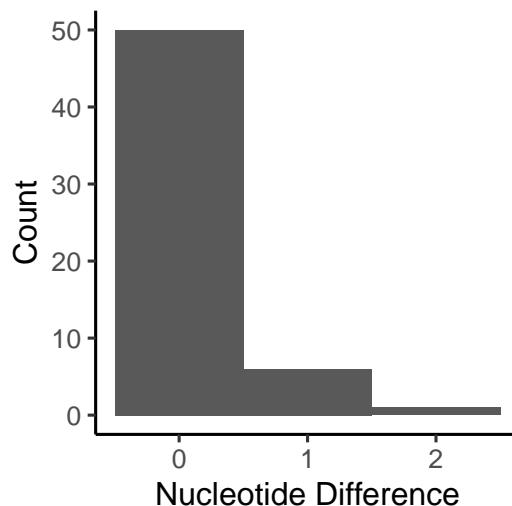
IGHV1-2*02

83 sequences assigned
63 (75.9%) exact matches, in which:
63 unique CDR3
4 unique J



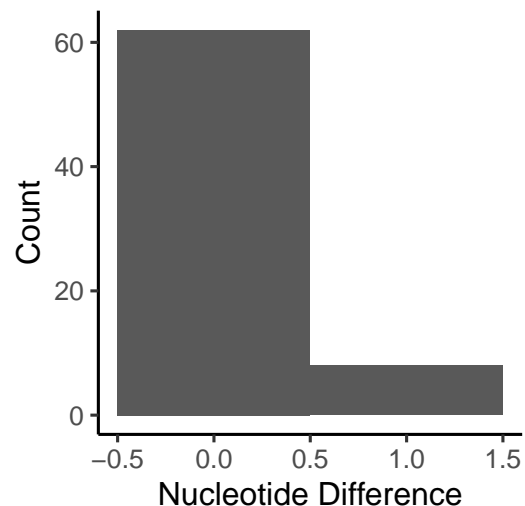
IGHV1-8*01

58 sequences assigned
50 (86.2%) exact matches, in which:
48 unique CDR3
4 unique J



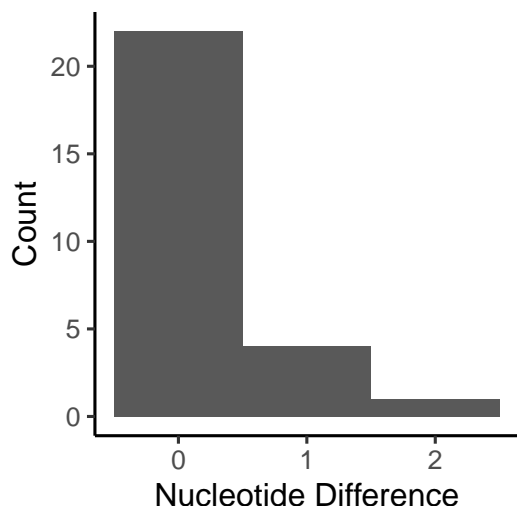
IGHV1-46*01

71 sequences assigned
62 (87.3%) exact matches, in which:
62 unique CDR3
6 unique J



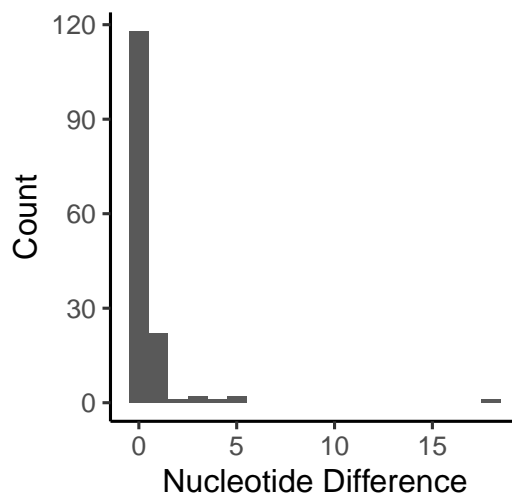
IGHV1-2*04

27 sequences assigned
22 (81.5%) exact matches, in which:
22 unique CDR3
4 unique J



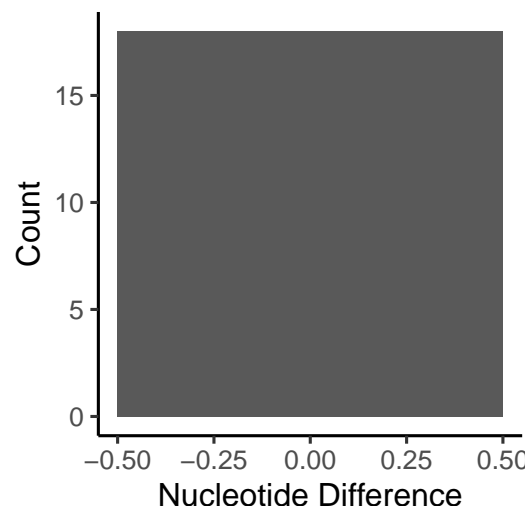
IGHV1-18*01

148 sequences assigned
118 (79.7%) exact matches, in which:
115 unique CDR3
6 unique J



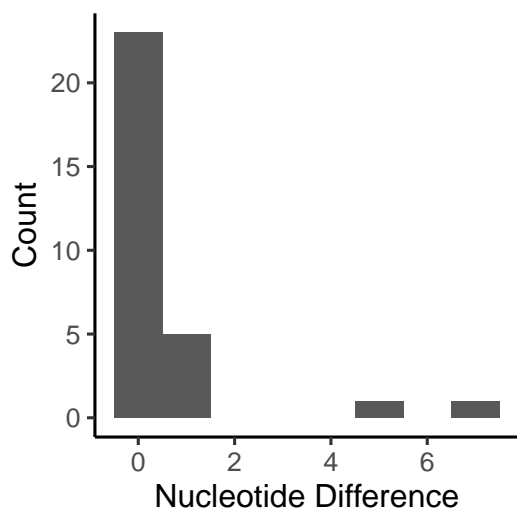
IGHV1-58*01

18 sequences assigned
18 (100%) exact matches, in which:
18 unique CDR3
4 unique J



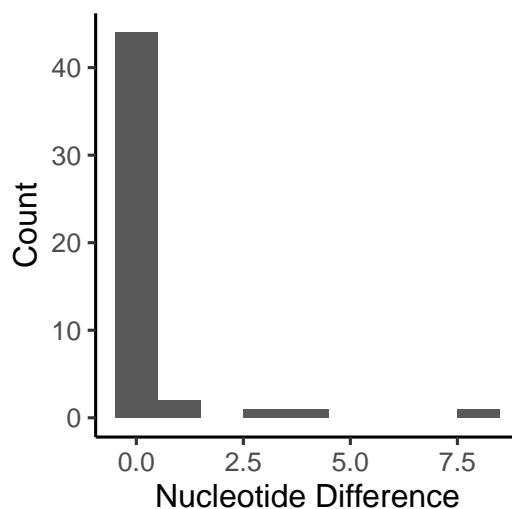
IGHV1-3*01

30 sequences assigned
23 (76.7%) exact matches, in which:
23 unique CDR3
4 unique J



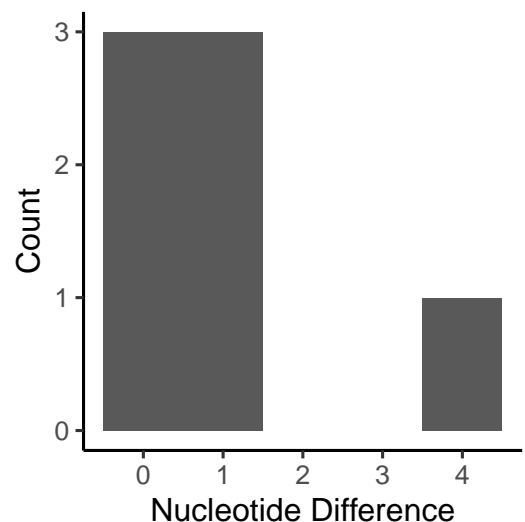
IGHV1-24*01

49 sequences assigned
44 (89.8%) exact matches, in which:
44 unique CDR3
4 unique J



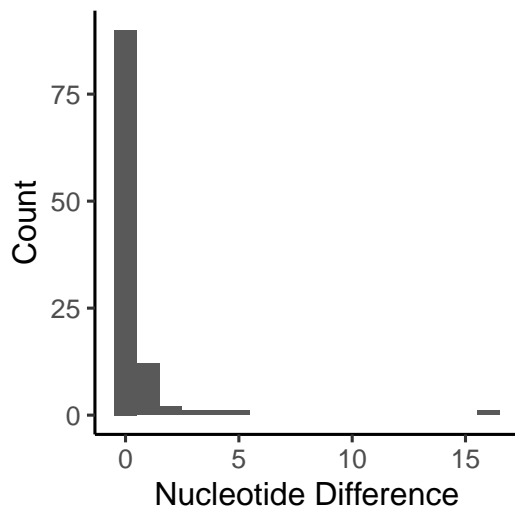
IGHV1-58*02

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



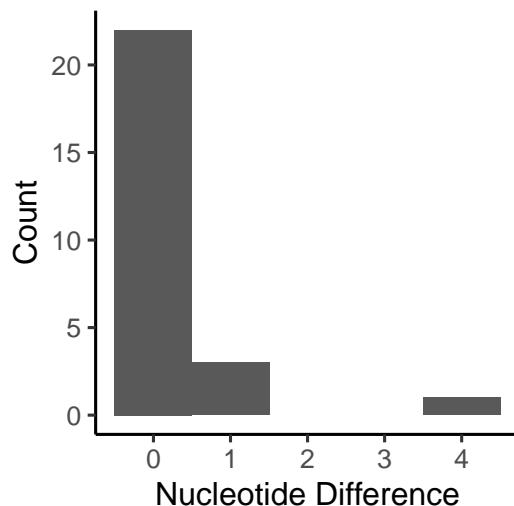
IGHV1-69*04

110 sequences assigned
90 (81.8%) exact matches, in which:
90 unique CDR3
5 unique J



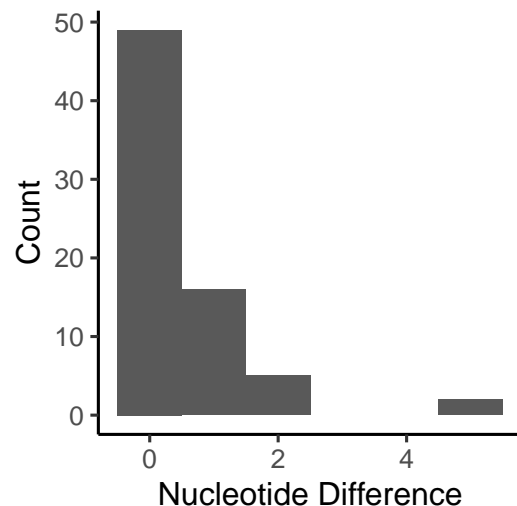
IGHV2-26*01

26 sequences assigned
22 (84.6%) exact matches, in which:
22 unique CDR3
5 unique J



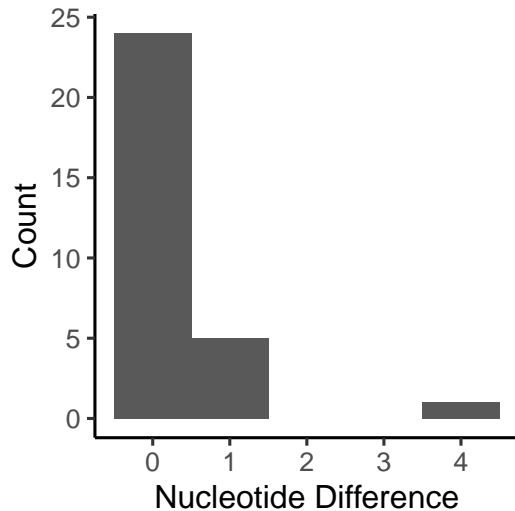
IGHV3-7*01

72 sequences assigned
49 (68.1%) exact matches, in which:
48 unique CDR3
5 unique J



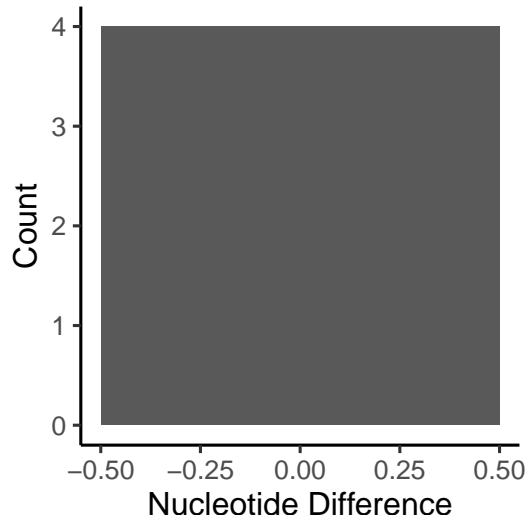
IGHV2-5*01

30 sequences assigned
24 (80%) exact matches, in which:
24 unique CDR3
5 unique J



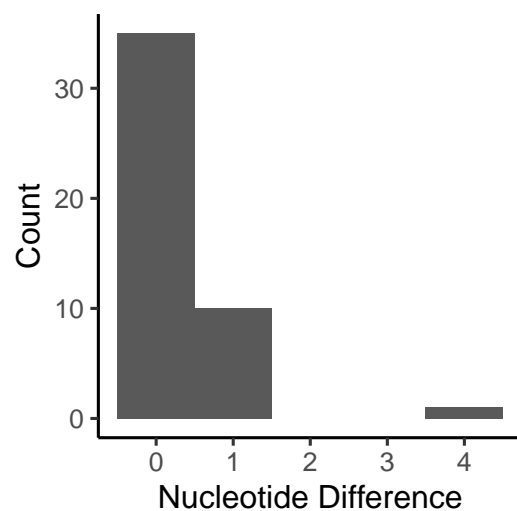
IGHV2-70*01

4 sequences assigned
4 (100%) exact matches, in which:
4 unique CDR3
3 unique J



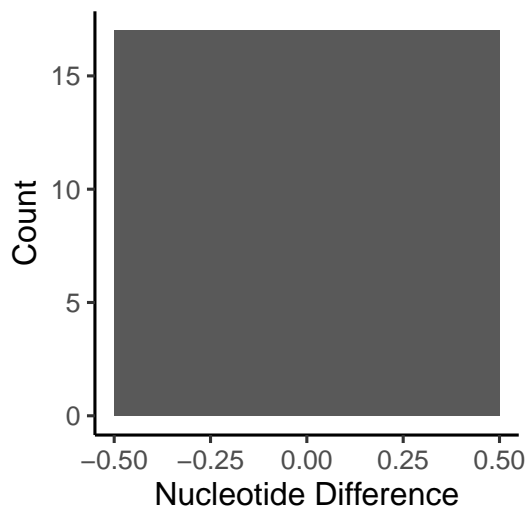
IGHV3-7*03

46 sequences assigned
35 (76.1%) exact matches, in which:
34 unique CDR3
4 unique J



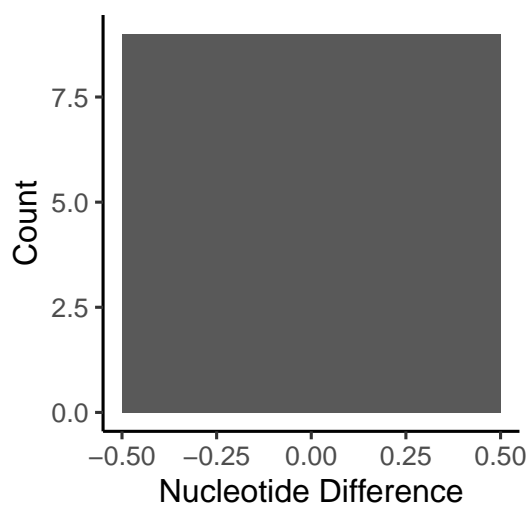
IGHV2-5*02

17 sequences assigned
17 (100%) exact matches, in which:
16 unique CDR3
4 unique J



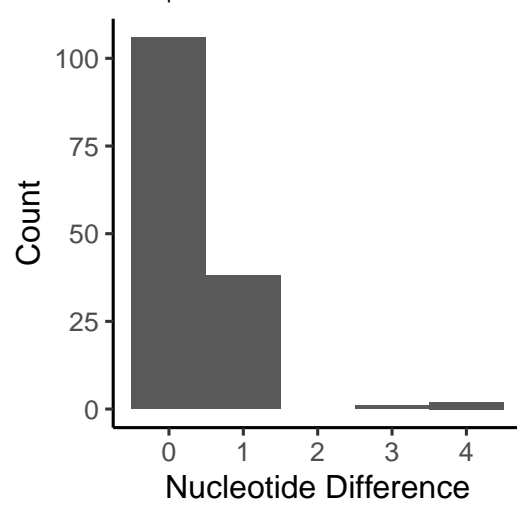
IGHV2-70*15

9 sequences assigned
9 (100%) exact matches, in which:
9 unique CDR3
3 unique J



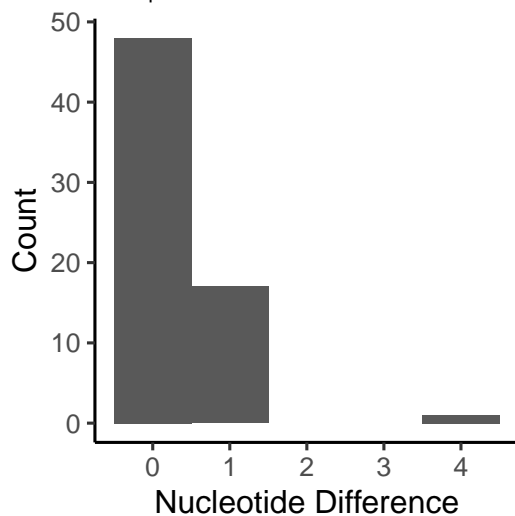
IGHV3-9*01

147 sequences assigned
106 (72.1%) exact matches, in which:
104 unique CDR3
6 unique J



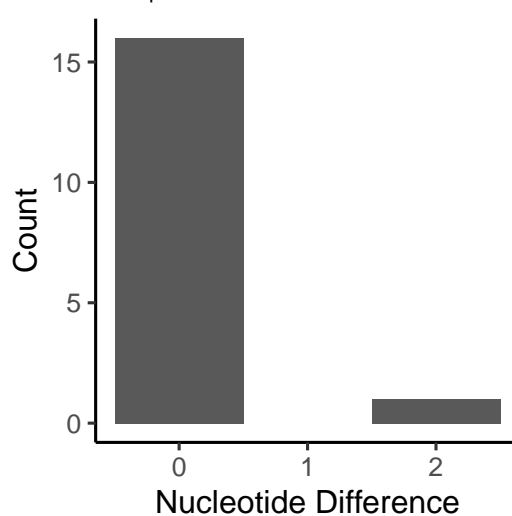
IGHV3-11*01

66 sequences assigned
48 (72.7%) exact matches, in which:
47 unique CDR3
5 unique J



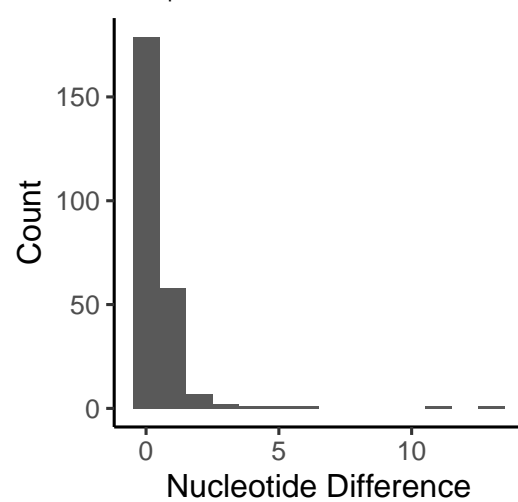
IGHV3-13*04

17 sequences assigned
16 (94.1%) exact matches, in which:
16 unique CDR3
4 unique J



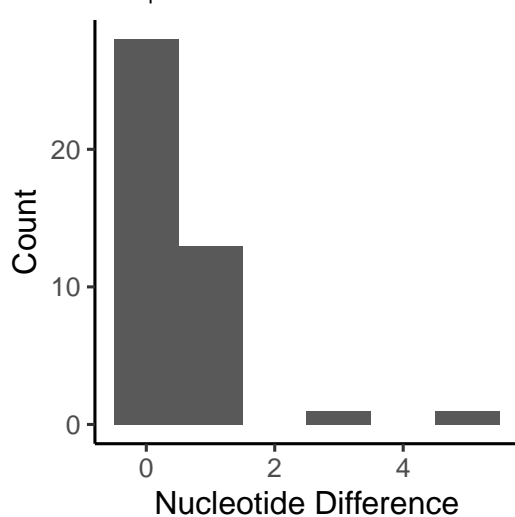
IGHV3-21*01

251 sequences assigned
179 (71.3%) exact matches, in which:
177 unique CDR3
6 unique J



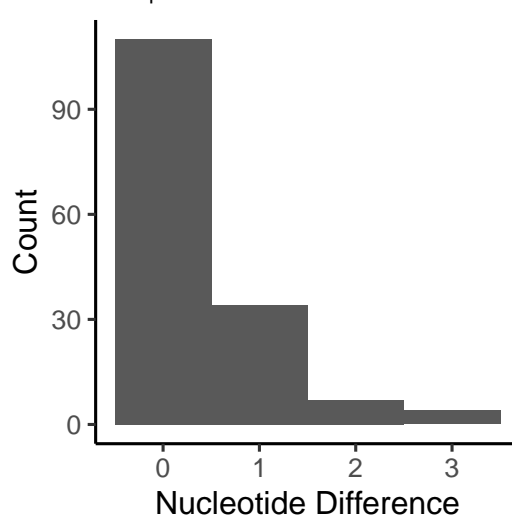
IGHV3-11*05

43 sequences assigned
28 (65.1%) exact matches, in which:
28 unique CDR3
5 unique J



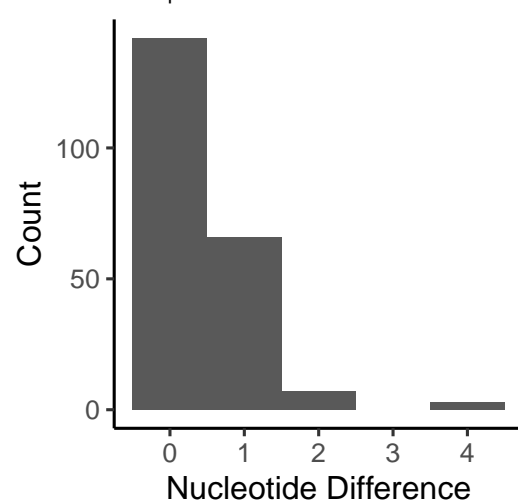
IGHV3-15*01

155 sequences assigned
110 (71%) exact matches, in which:
108 unique CDR3
6 unique J



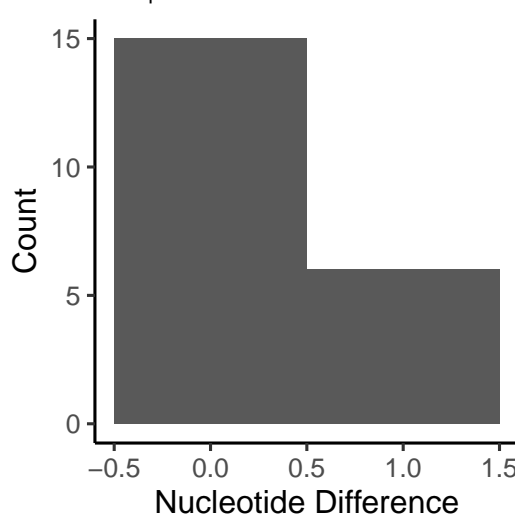
IGHV3-23*04

218 sequences assigned
142 (65.1%) exact matches, in which:
141 unique CDR3
6 unique J



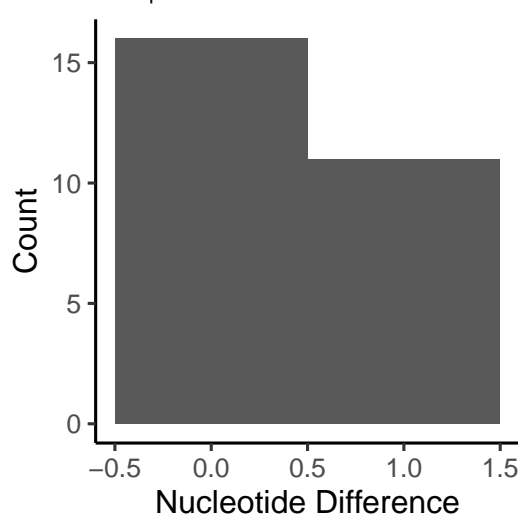
IGHV3-13*01

21 sequences assigned
15 (71.4%) exact matches, in which:
15 unique CDR3
4 unique J



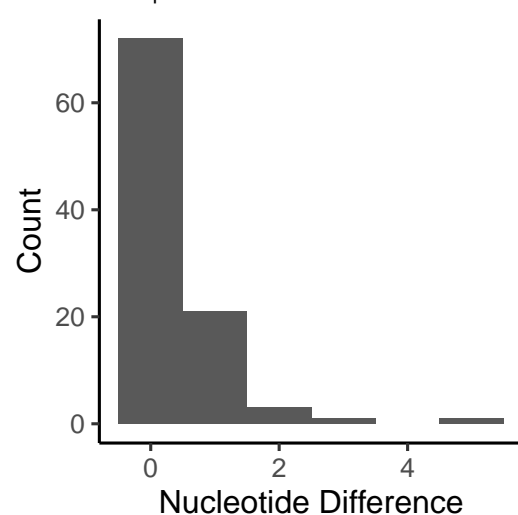
IGHV3-20*04

27 sequences assigned
16 (59.3%) exact matches, in which:
16 unique CDR3
5 unique J



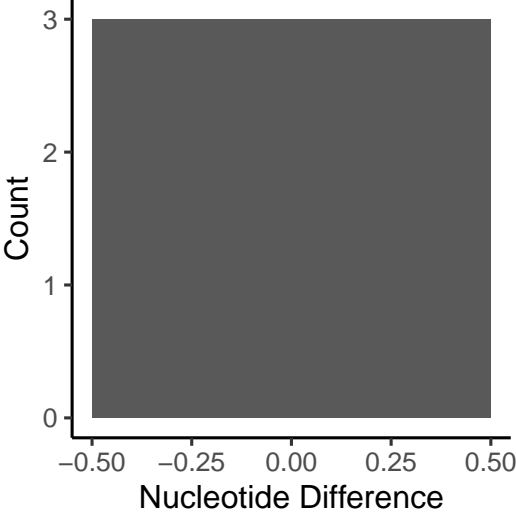
IGHV3-33*01

98 sequences assigned
72 (73.5%) exact matches, in which:
68 unique CDR3
6 unique J



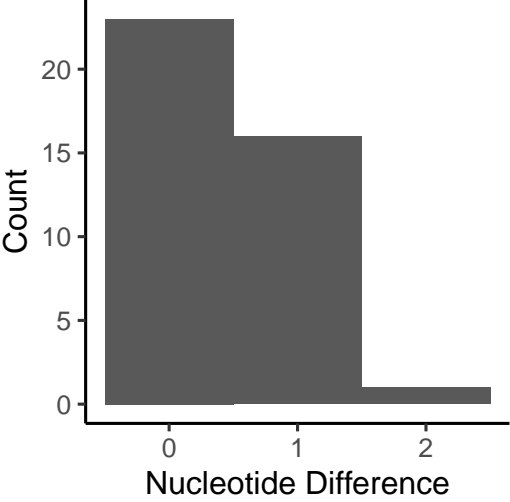
IGHV3-43*01

3 sequences assigned
3 (100%) exact matches, in which:
3 unique CDR3
2 unique J



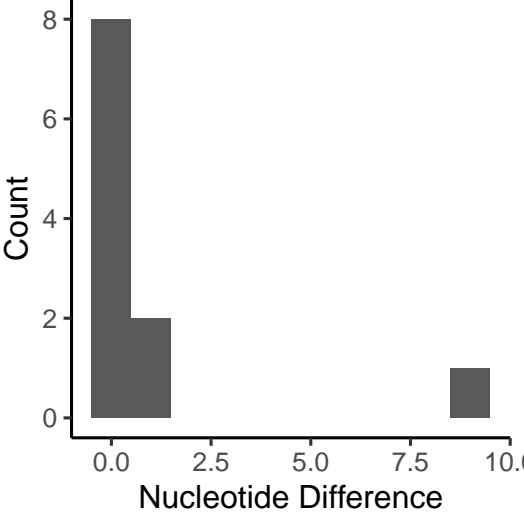
IGHV3-49*03

40 sequences assigned
23 (57.5%) exact matches, in which:
23 unique CDR3
4 unique J



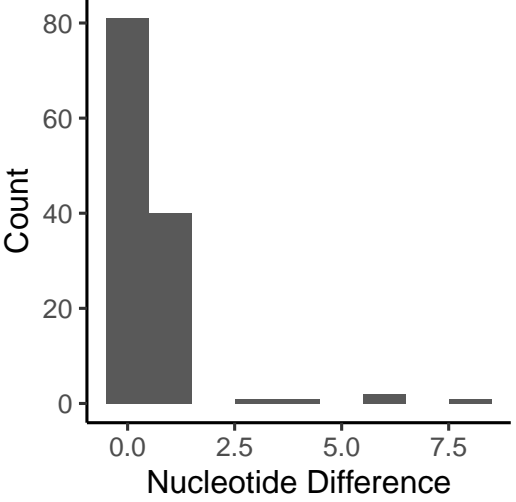
IGHV3-53*04

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



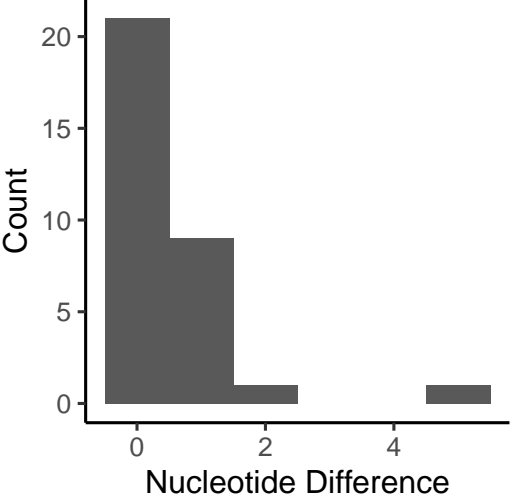
IGHV3-48*03

126 sequences assigned
81 (64.3%) exact matches, in which:
81 unique CDR3
5 unique J



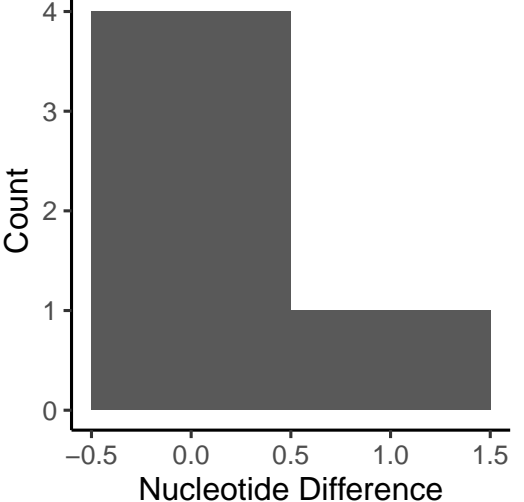
IGHV3-49*04

32 sequences assigned
21 (65.6%) exact matches, in which:
21 unique CDR3
4 unique J



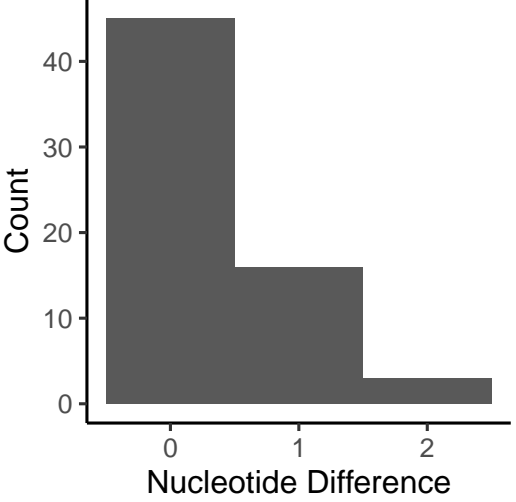
IGHV3-64*01

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



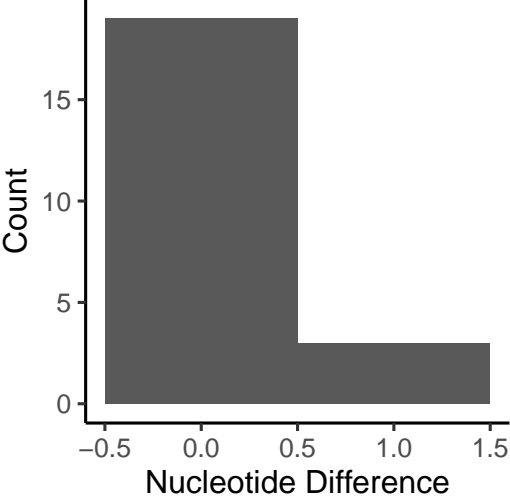
IGHV3-48*04

64 sequences assigned
45 (70.3%) exact matches, in which:
45 unique CDR3
5 unique J



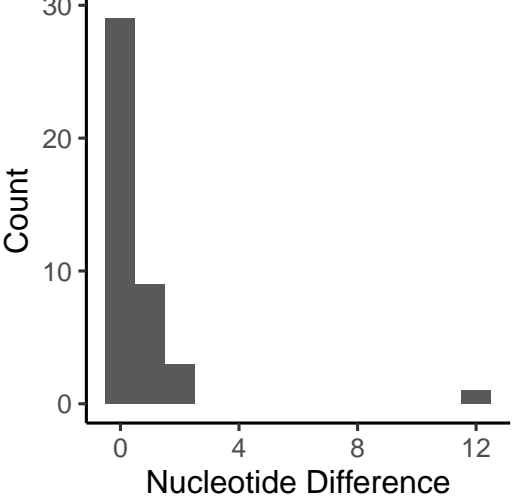
IGHV3-53*02

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



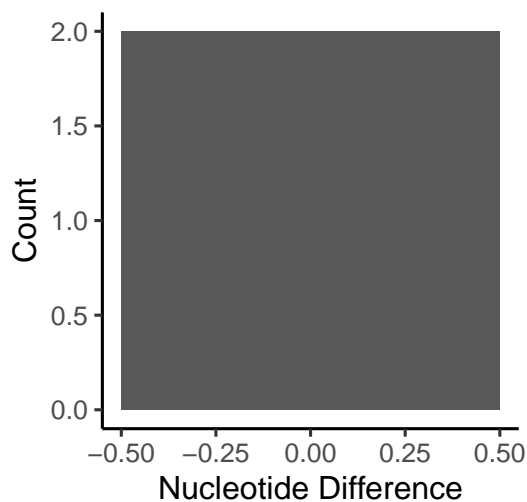
IGHV3-66*02_G303A

42 sequences assigned
29 (69%) exact matches, in which:
29 unique CDR3
5 unique J



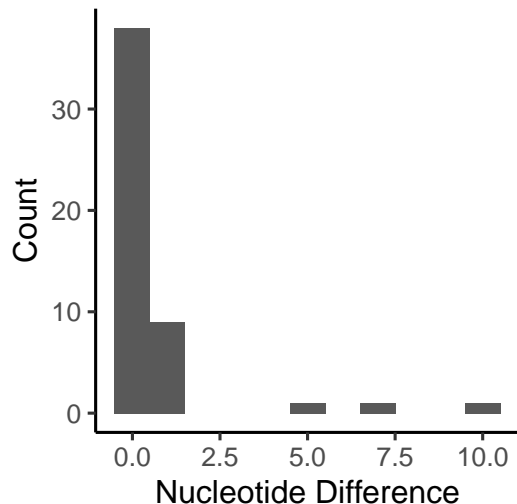
IGHV3-72*01

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



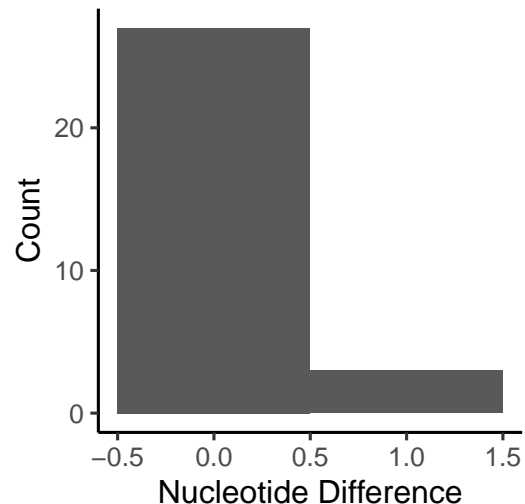
IGHV3-74*01

50 sequences assigned
38 (76%) exact matches, in which:
35 unique CDR3
5 unique J



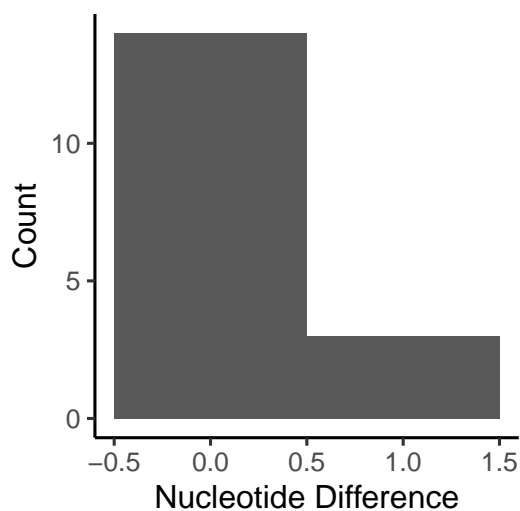
IGHV3-64D*06

30 sequences assigned
27 (90%) exact matches, in which:
25 unique CDR3
6 unique J



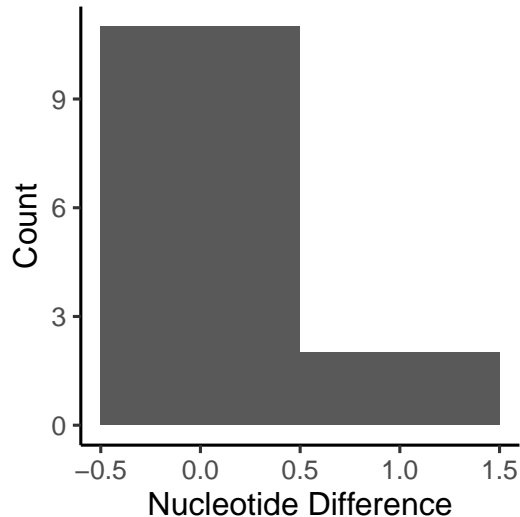
IGHV3-73*01

17 sequences assigned
14 (82.4%) exact matches, in which:
14 unique CDR3
4 unique J



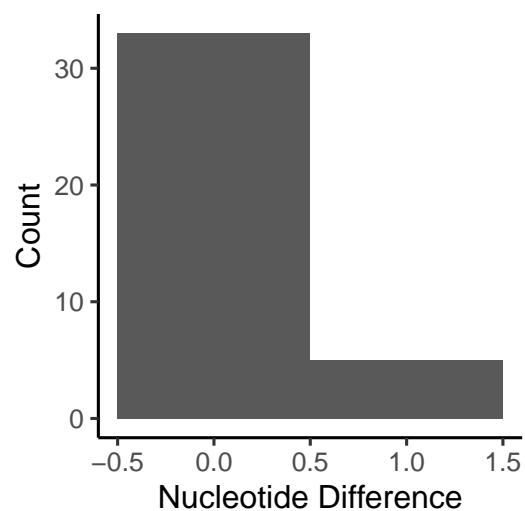
IGHV3-43D*03

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



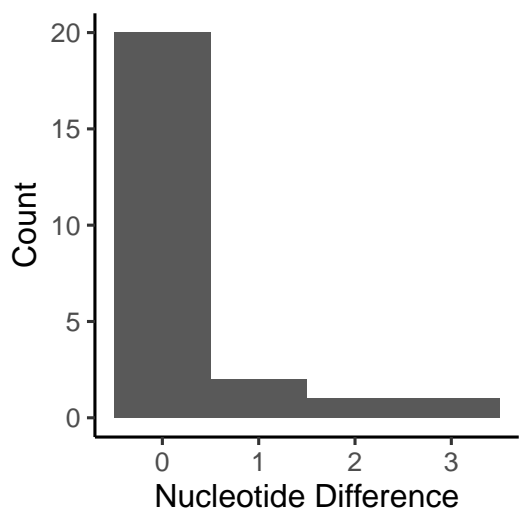
IGHV4-4*02

38 sequences assigned
33 (86.8%) exact matches, in which:
33 unique CDR3
6 unique J



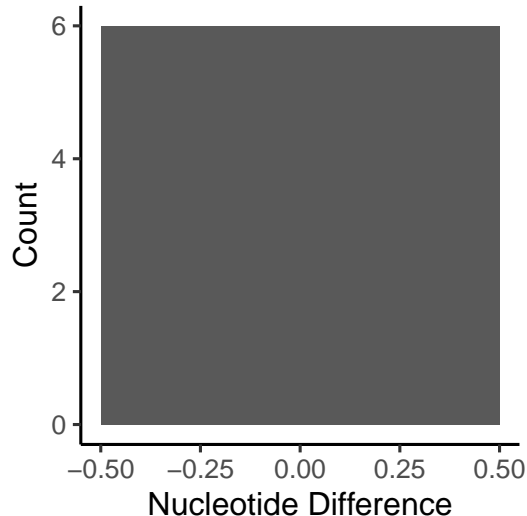
IGHV3-73*02

24 sequences assigned
20 (83.3%) exact matches, in which:
20 unique CDR3
3 unique J



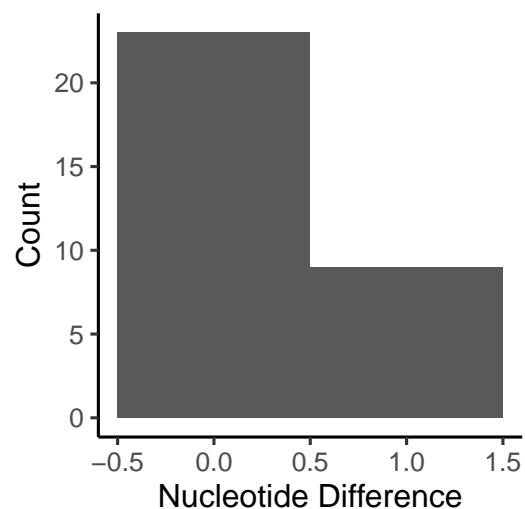
IGHV3-43D*04

6 sequences assigned
6 (100%) exact matches, in which:
6 unique CDR3
3 unique J



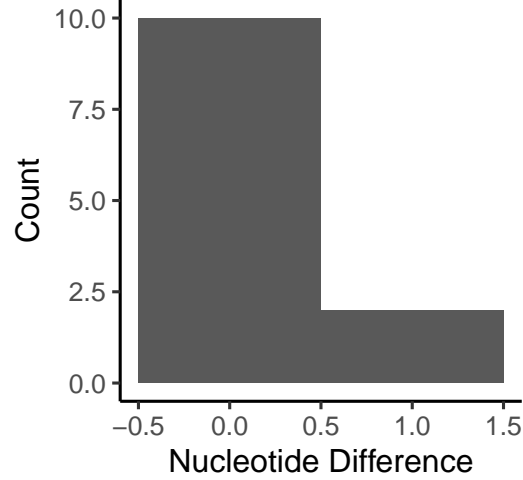
IGHV4-4*07

33 sequences assigned
23 (69.7%) exact matches, in which:
23 unique CDR3
4 unique J



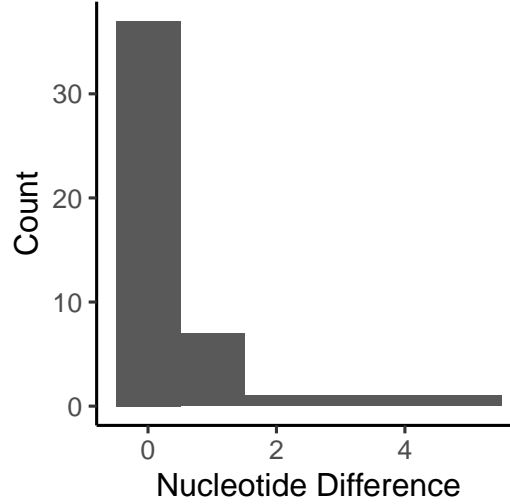
IGHV4-30-2*01

12 sequences assigned
10 (83.3%) exact matches, in which:
10 unique CDR3
5 unique J



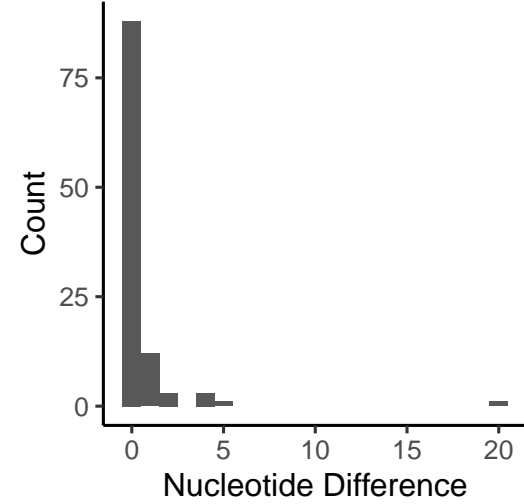
IGHV4-38-2*01

49 sequences assigned
37 (75.5%) exact matches, in which:
36 unique CDR3
5 unique J



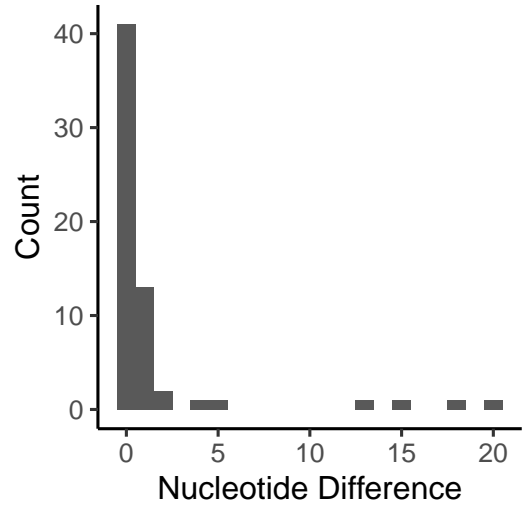
IGHV4-59*01

108 sequences assigned
88 (81.5%) exact matches, in which:
86 unique CDR3
5 unique J



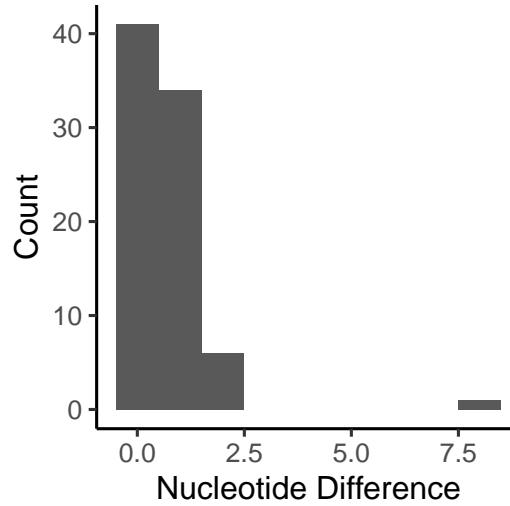
IGHV4-31*03

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



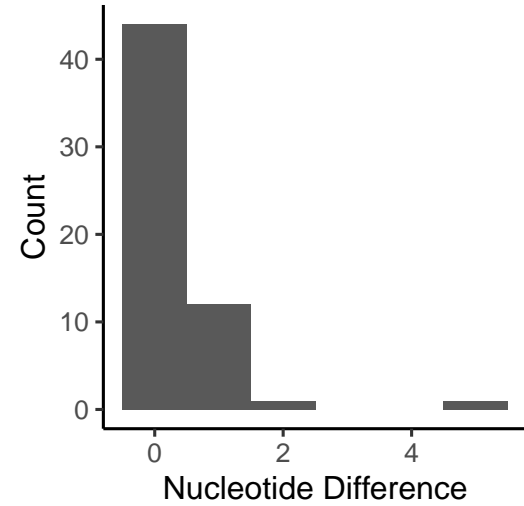
IGHV4-38-2*02

89 sequences assigned
41 (46.1%) exact matches, in which:
41 unique CDR3
4 unique J



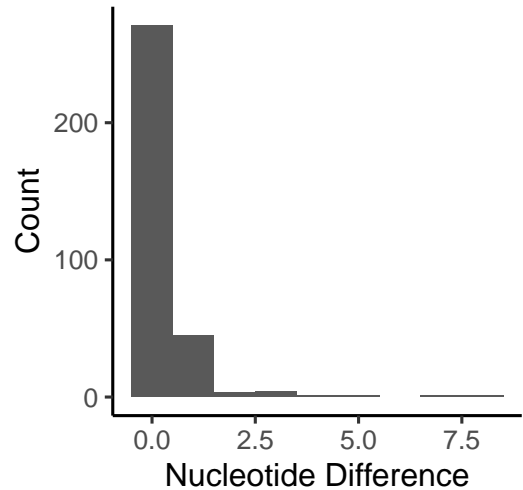
IGHV4-59*08

58 sequences assigned
44 (75.9%) exact matches, in which:
44 unique CDR3
5 unique J



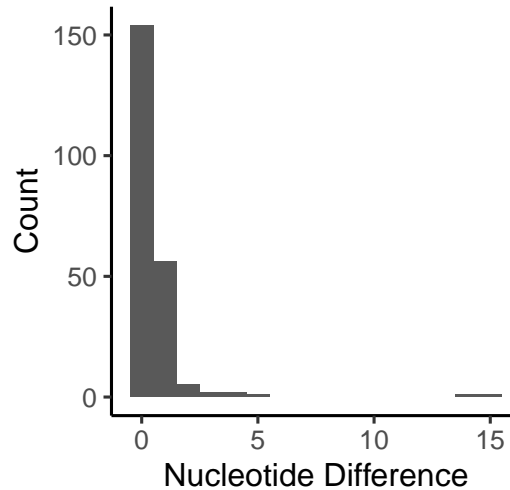
IGHV4-34*01

327 sequences assigned
271 (82.9%) exact matches, in which:
268 unique CDR3
6 unique J



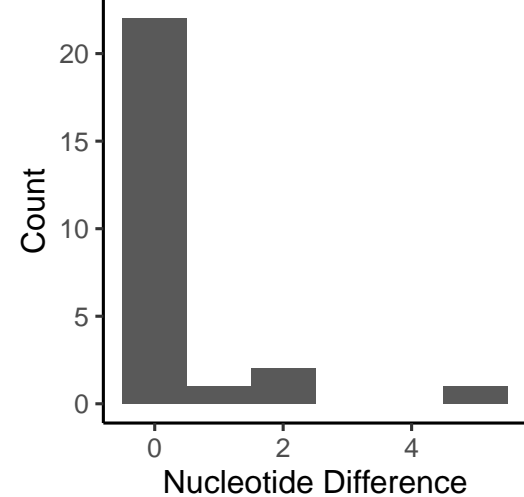
IGHV4-39*07

228 sequences assigned
154 (67.5%) exact matches, in which:
151 unique CDR3
5 unique J



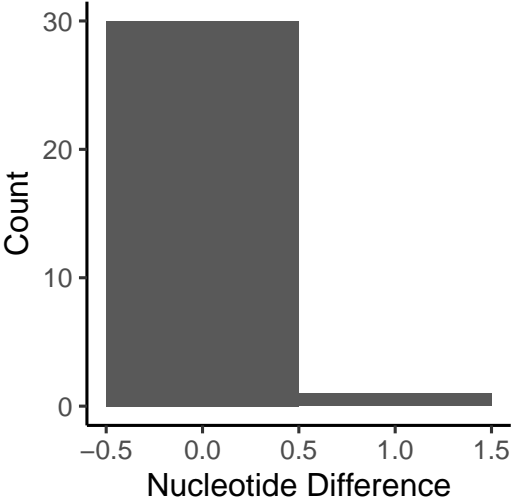
IGHV4-61*01

26 sequences assigned
22 (84.6%) exact matches, in which:
21 unique CDR3
4 unique J



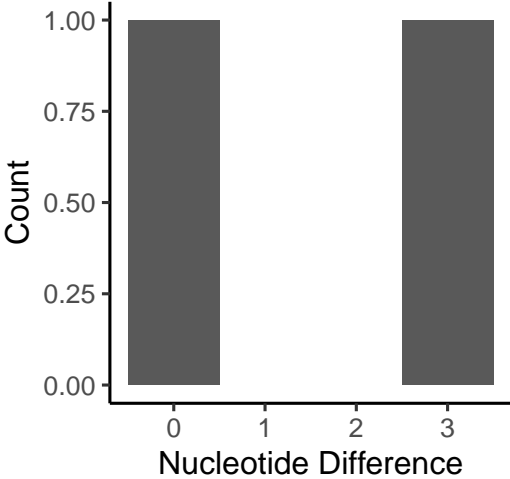
IGHV5-10-1*01

31 sequences assigned
30 (96.8%) exact matches, in which:
30 unique CDR3
5 unique J



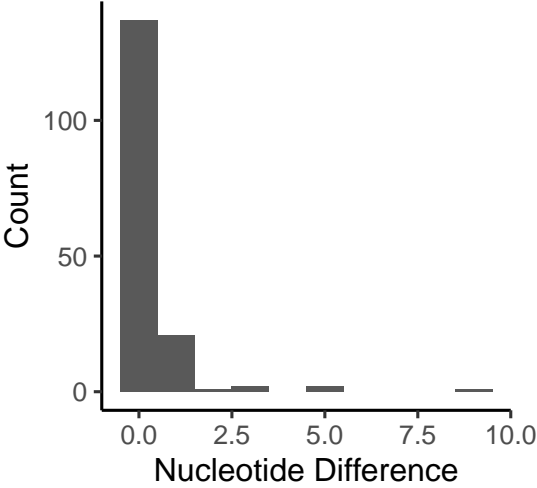
IGHV7-4-1*02

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



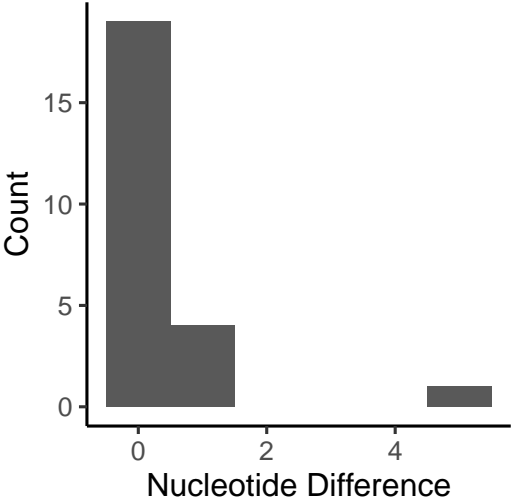
IGHV5-51*01

165 sequences assigned
137 (83%) exact matches, in which:
136 unique CDR3
6 unique J



IGHV6-1*01

24 sequences assigned
19 (79.2%) exact matches, in which:
19 unique CDR3
4 unique J





Warning – no inferred sequences found.