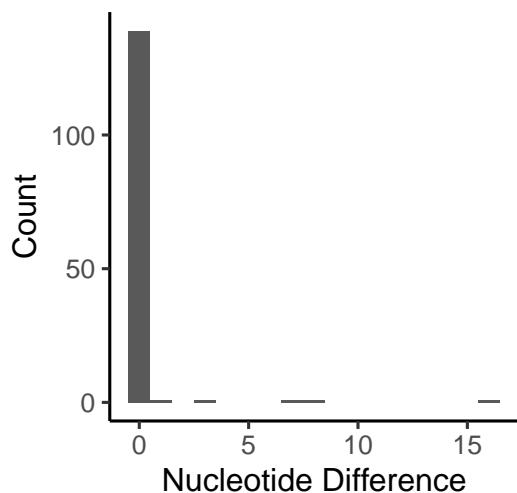


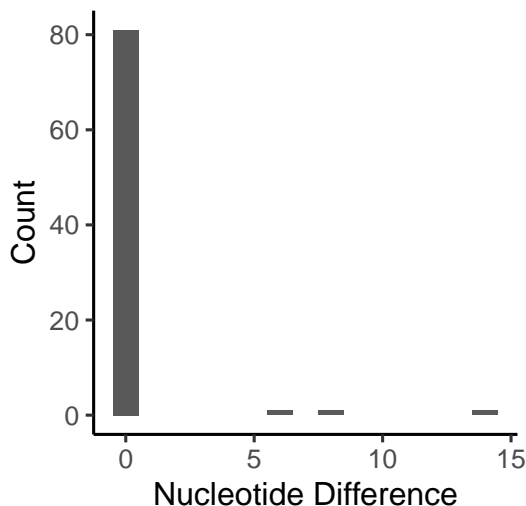
IGHV1-2*02

144 sequences assigned
139 (96.5%) exact matches, in which:
139 unique CDR3
6 unique J



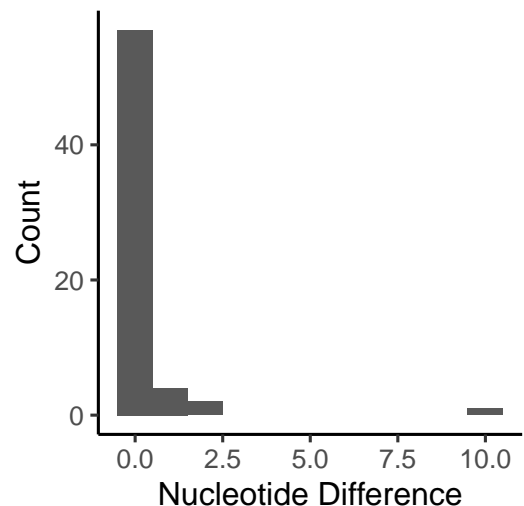
IGHV1-8*01

84 sequences assigned
81 (96.4%) exact matches, in which:
81 unique CDR3
5 unique J



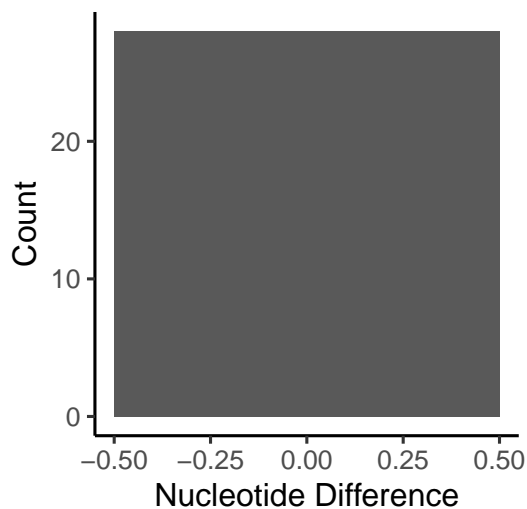
IGHV1-24*01

64 sequences assigned
57 (89.1%) exact matches, in which:
57 unique CDR3
6 unique J



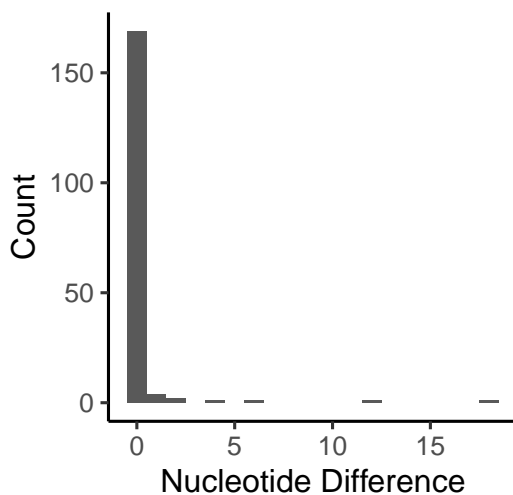
IGHV1-2*04

28 sequences assigned
28 (100%) exact matches, in which:
28 unique CDR3
4 unique J



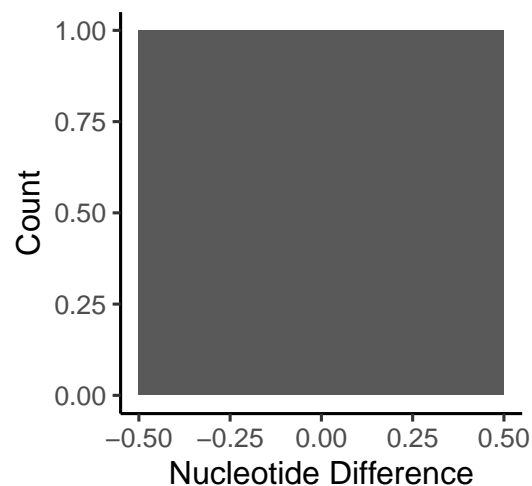
IGHV1-18*01

179 sequences assigned
169 (94.4%) exact matches, in which:
169 unique CDR3
5 unique J



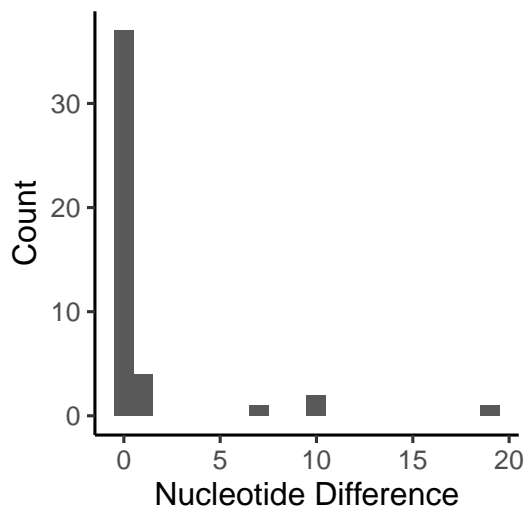
IGHV1-45*02

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



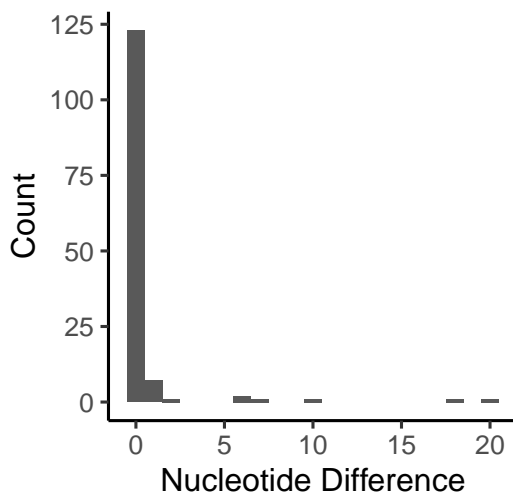
IGHV1-3*01

45 sequences assigned
37 (82.2%) exact matches, in which:
37 unique CDR3
5 unique J



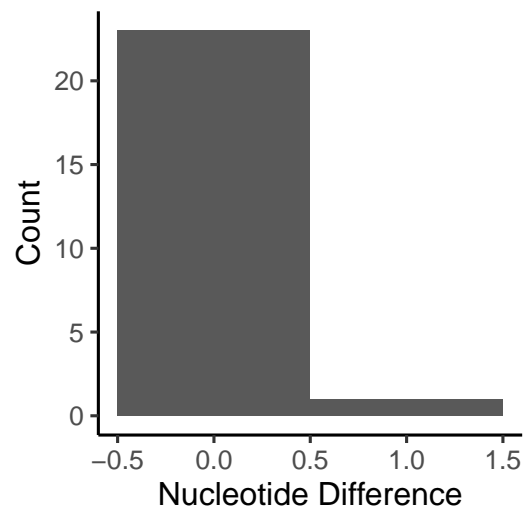
IGHV1-18*04

137 sequences assigned
123 (89.8%) exact matches, in which:
123 unique CDR3
5 unique J



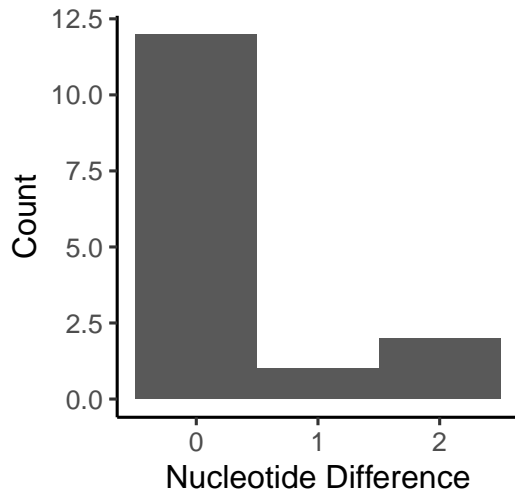
IGHV1-46*01

24 sequences assigned
23 (95.8%) exact matches, in which:
23 unique CDR3
4 unique J



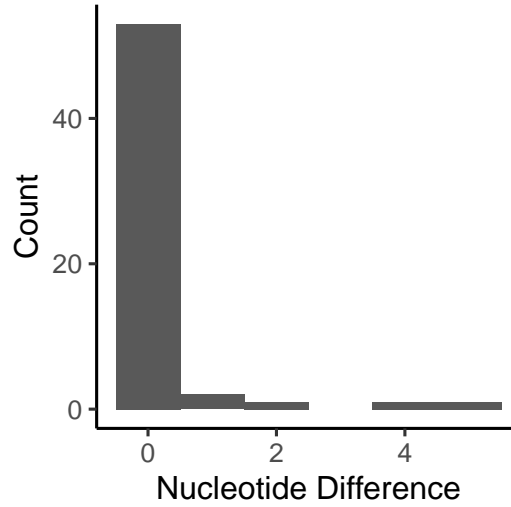
IGHV1-46*03

15 sequences assigned
12 (80%) exact matches, in which:
12 unique CDR3
4 unique J



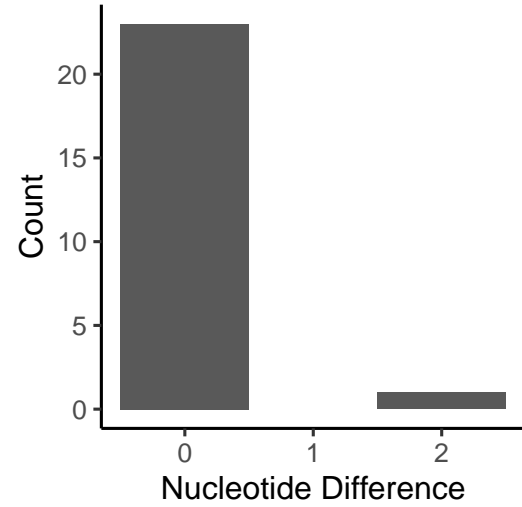
IGHV1-69*02

58 sequences assigned
53 (91.4%) exact matches, in which:
53 unique CDR3
6 unique J



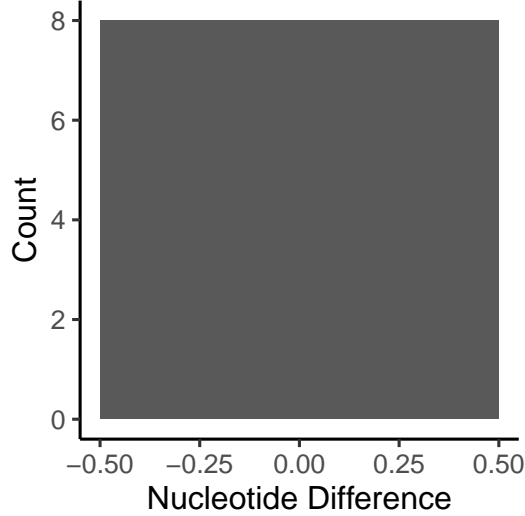
IGHV2-26*01

24 sequences assigned
23 (95.8%) exact matches, in which:
23 unique CDR3
5 unique J



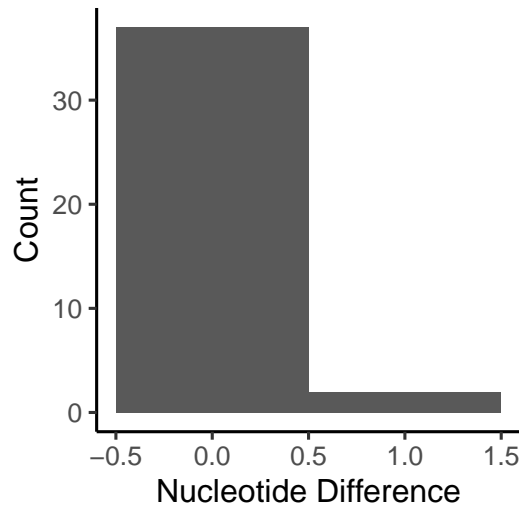
IGHV1-58*01

8 sequences assigned
8 (100%) exact matches, in which:
8 unique CDR3
3 unique J



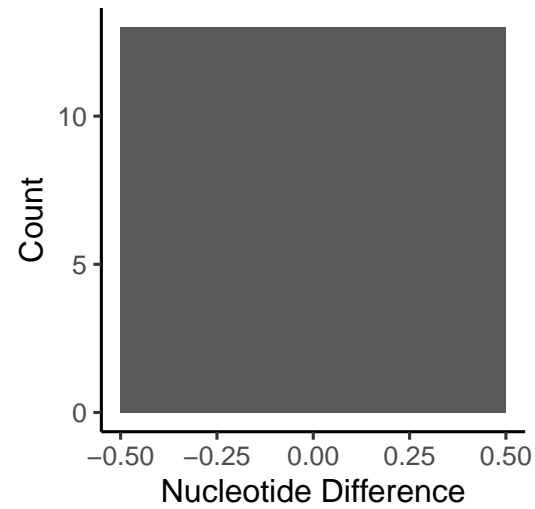
IGHV2-5*01

39 sequences assigned
37 (94.9%) exact matches, in which:
37 unique CDR3
5 unique J



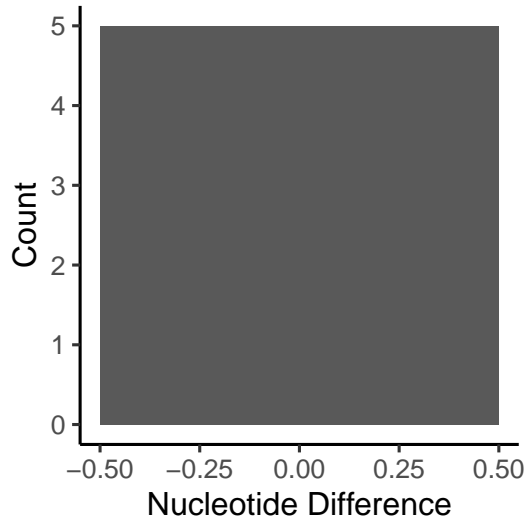
IGHV2-70*01

13 sequences assigned
13 (100%) exact matches, in which:
12 unique CDR3
4 unique J



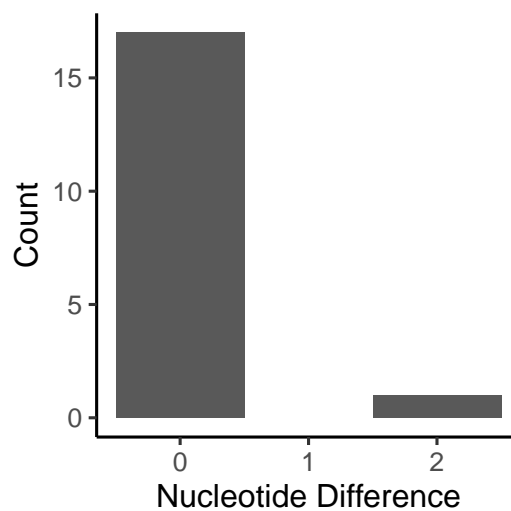
IGHV1-58*02

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



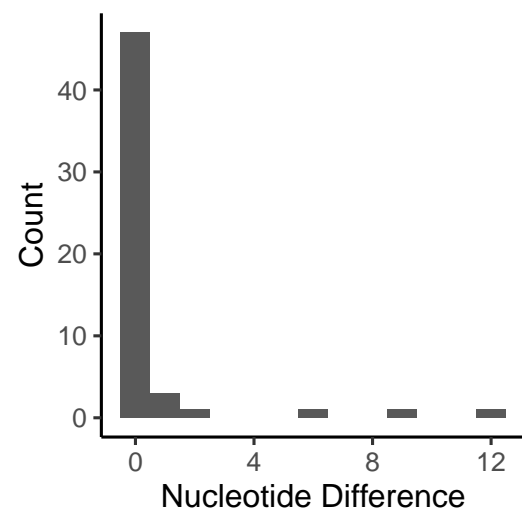
IGHV2-5*02

18 sequences assigned
17 (94.4%) exact matches, in which:
17 unique CDR3
4 unique J



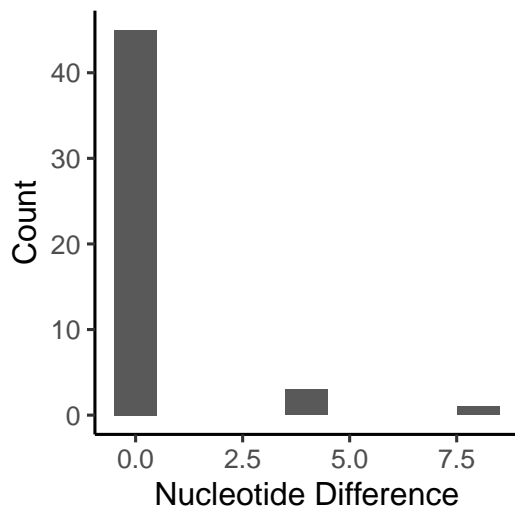
IGHV3-7*01

54 sequences assigned
47 (87%) exact matches, in which:
46 unique CDR3
5 unique J



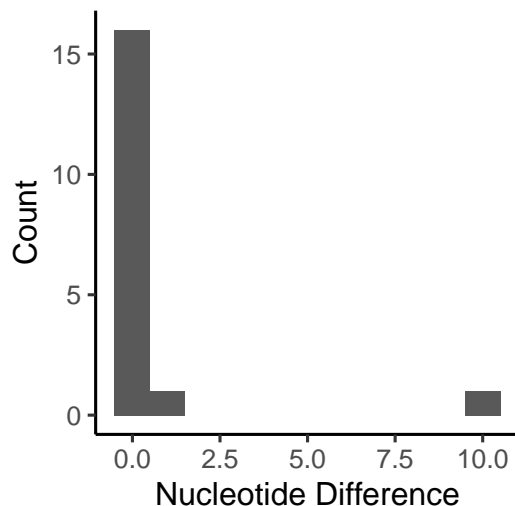
IGHV3-7*03

49 sequences assigned
45 (91.8%) exact matches, in which:
45 unique CDR3
5 unique J



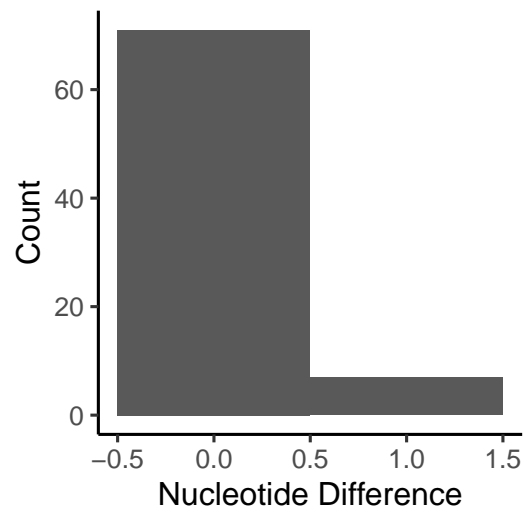
IGHV3-11*06

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



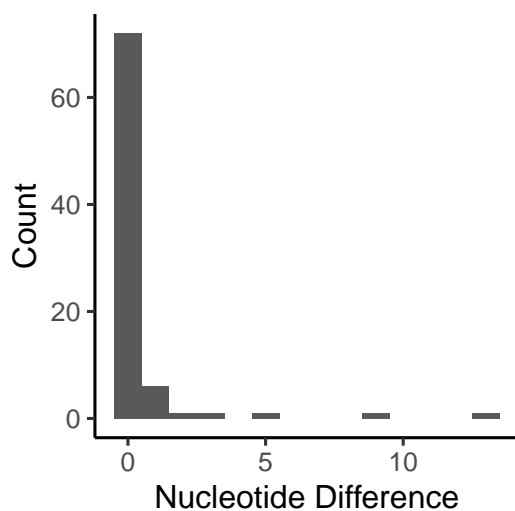
IGHV3-15*01

78 sequences assigned
71 (91%) exact matches, in which:
71 unique CDR3
5 unique J



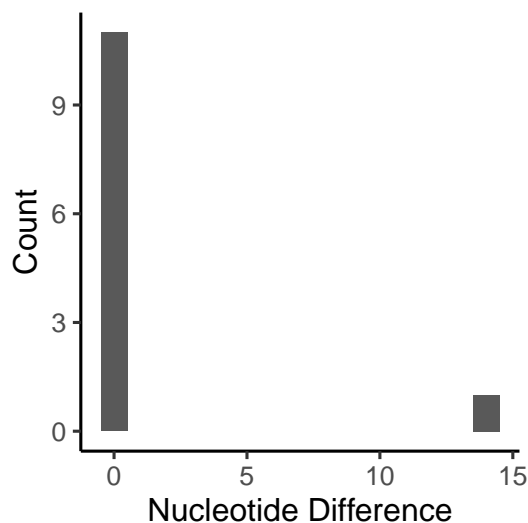
IGHV3-9*01

84 sequences assigned
72 (85.7%) exact matches, in which:
71 unique CDR3
6 unique J



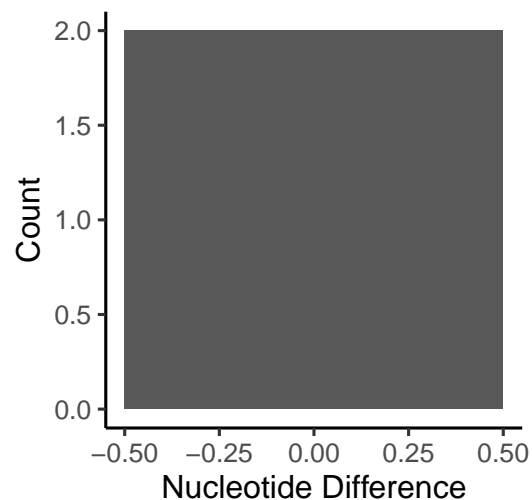
IGHV3-13*01

12 sequences assigned
11 (91.7%) exact matches, in which:
10 unique CDR3
3 unique J



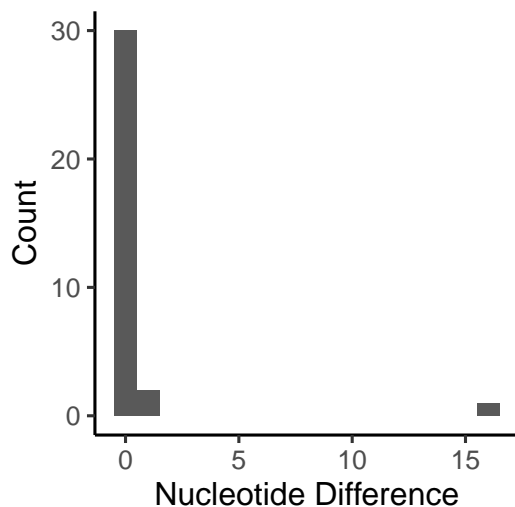
IGHV3-20*01

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



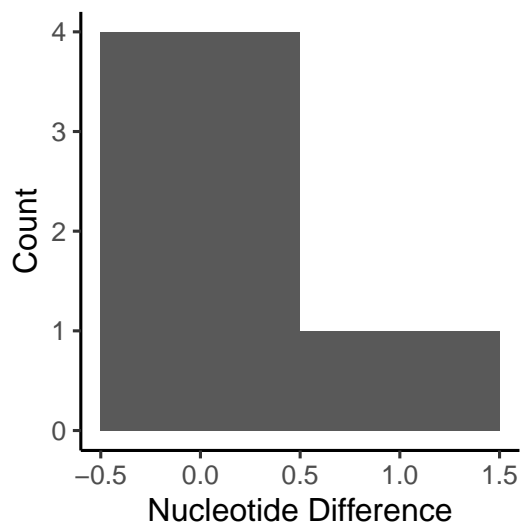
IGHV3-11*01

33 sequences assigned
30 (90.9%) exact matches, in which:
30 unique CDR3
4 unique J



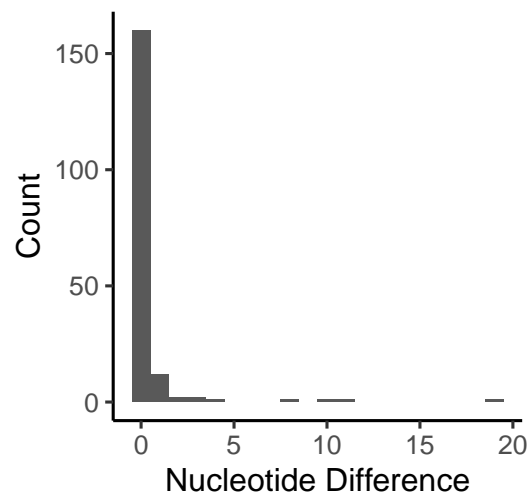
IGHV3-13*05

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



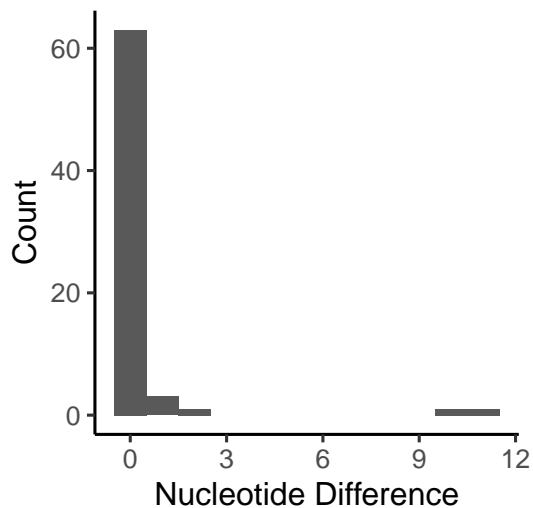
IGHV3-21*01

181 sequences assigned
160 (88.4%) exact matches, in which:
159 unique CDR3
6 unique J



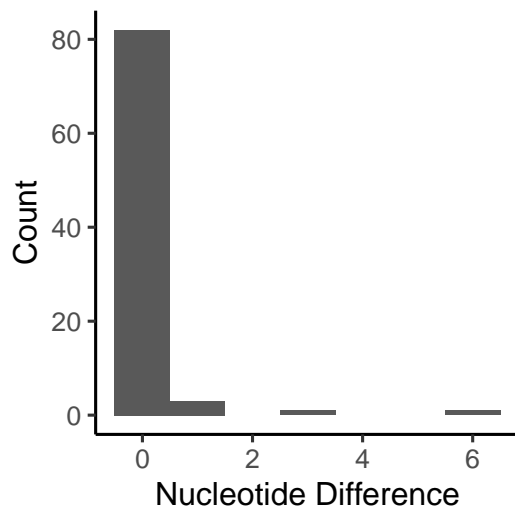
IGHV3-30-3*01

69 sequences assigned
63 (91.3%) exact matches, in which:
63 unique CDR3
5 unique J



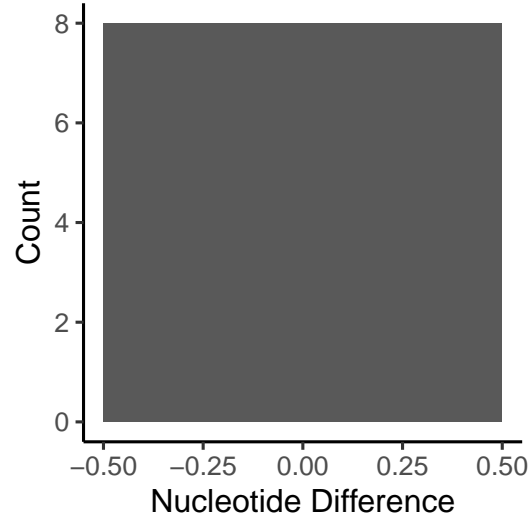
IGHV3-48*01

87 sequences assigned
82 (94.3%) exact matches, in which:
82 unique CDR3
5 unique J



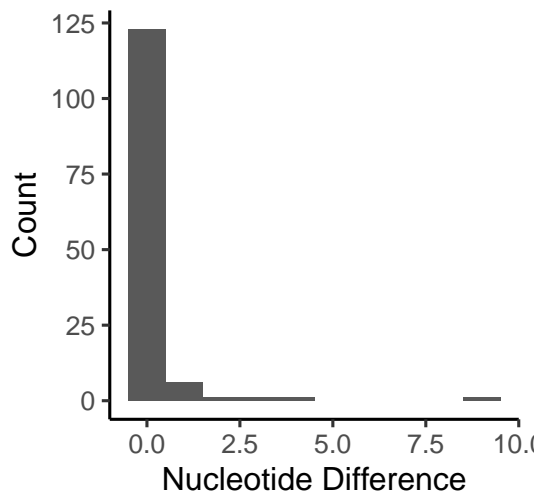
IGHV3-64*01

8 sequences assigned
8 (100%) exact matches, in which:
8 unique CDR3
3 unique J



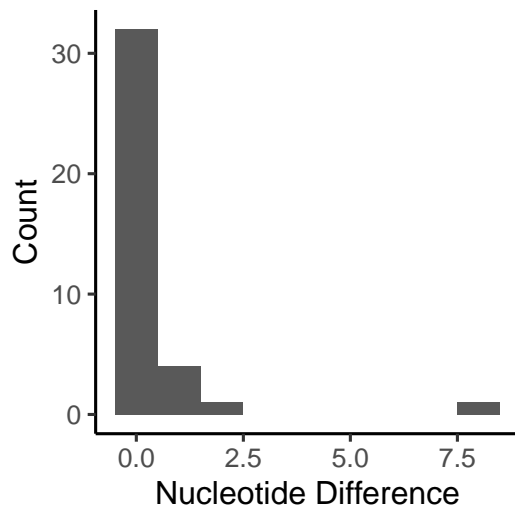
IGHV3-33*01

135 sequences assigned
123 (91.1%) exact matches, in which:
123 unique CDR3
5 unique J



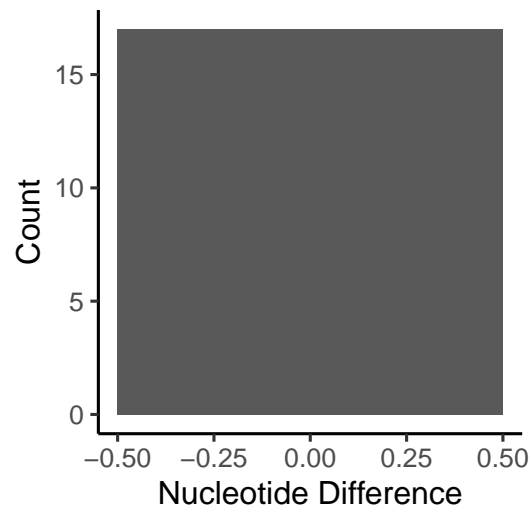
IGHV3-49*03

38 sequences assigned
32 (84.2%) exact matches, in which:
32 unique CDR3
6 unique J



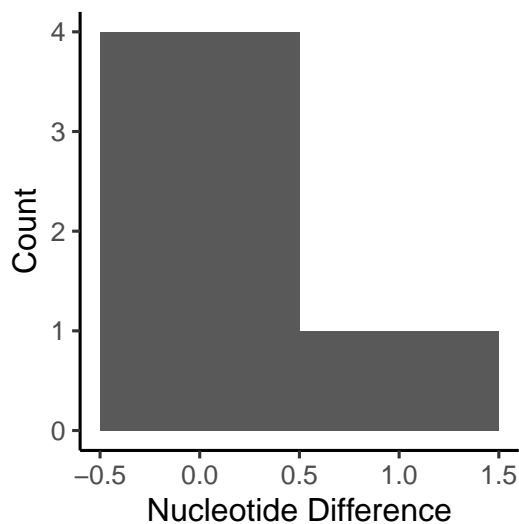
IGHV3-66*02

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



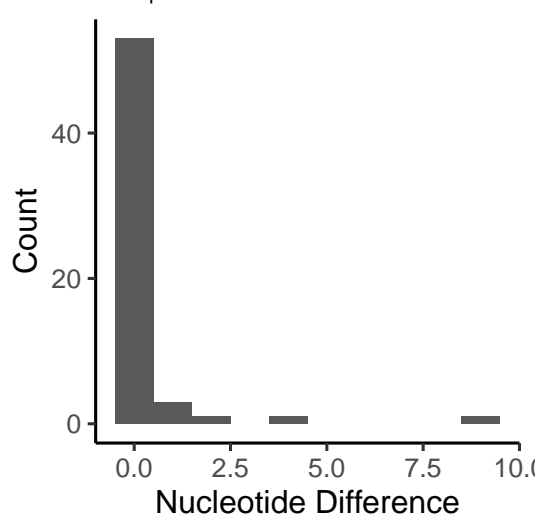
IGHV3-43*01

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



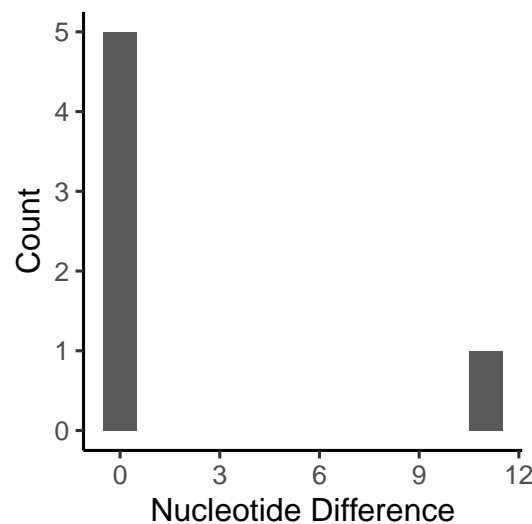
IGHV3-53*02

59 sequences assigned
53 (89.8%) exact matches, in which:
53 unique CDR3
6 unique J



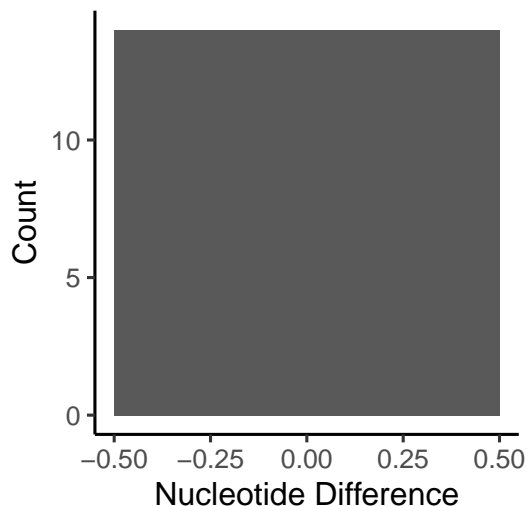
IGHV3-72*01

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



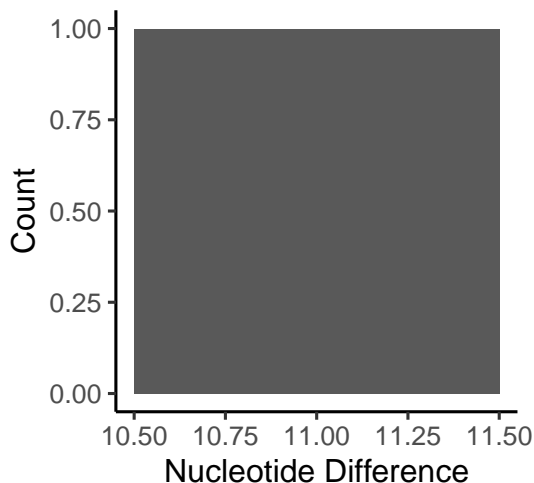
IGHV3-73*01

14 sequences assigned
14 (100%) exact matches, in which:
14 unique CDR3
4 unique J



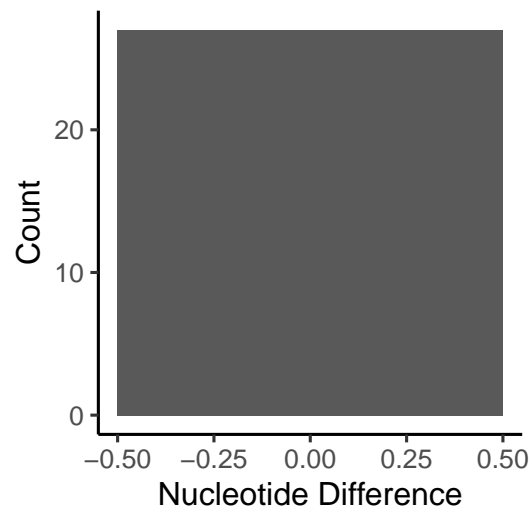
IGHV3-43D*04

1 sequences assigned
No exact matches.



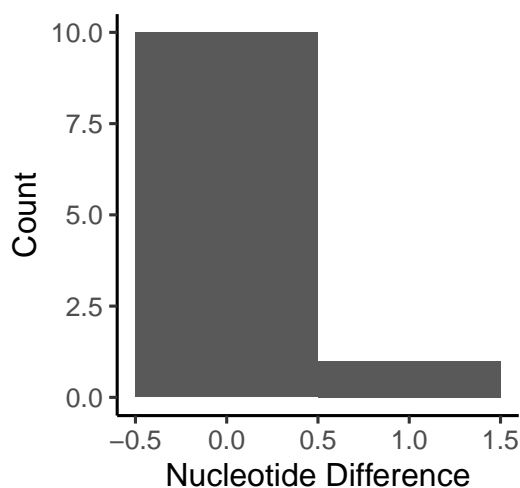
IGHV4-4*07

27 sequences assigned
27 (100%) exact matches, in which:
27 unique CDR3
5 unique J



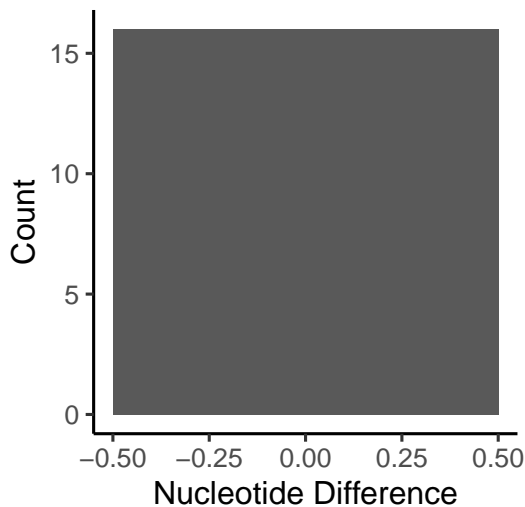
IGHV3-73*02

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



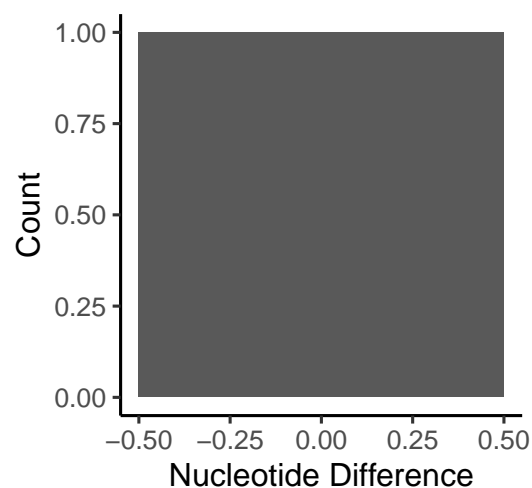
IGHV3-64D*06

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



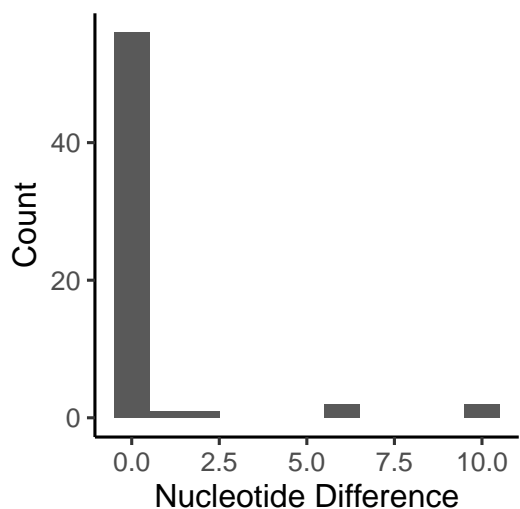
IGHV4-28*01

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



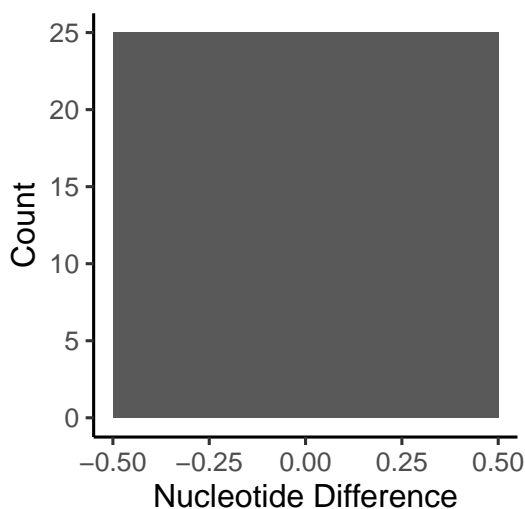
IGHV3-74*01

63 sequences assigned
56 (88.9%) exact matches, in which:
55 unique CDR3
5 unique J



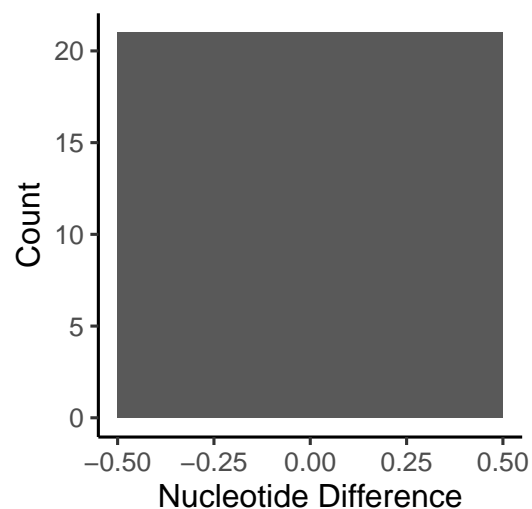
IGHV4-4*02

25 sequences assigned
25 (100%) exact matches, in which:
24 unique CDR3
5 unique J



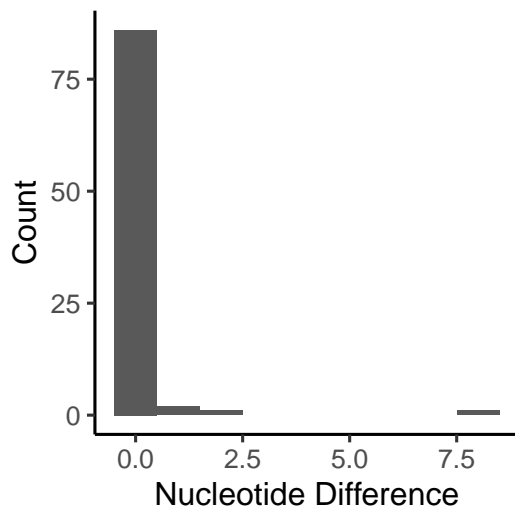
IGHV4-30-2*01

21 sequences assigned
21 (100%) exact matches, in which:
21 unique CDR3
4 unique J



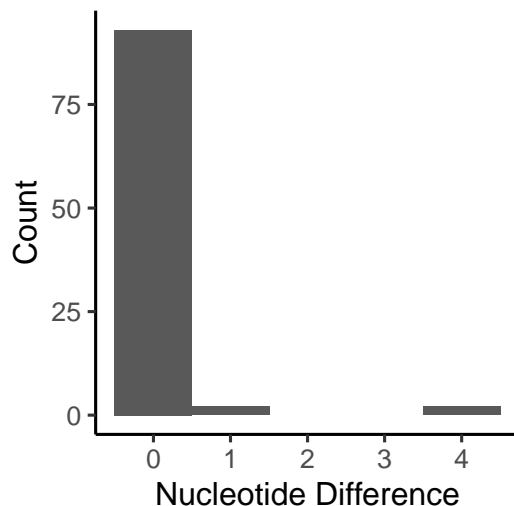
IGHV4-31*03

90 sequences assigned
86 (95.6%) exact matches, in which:
86 unique CDR3
6 unique J



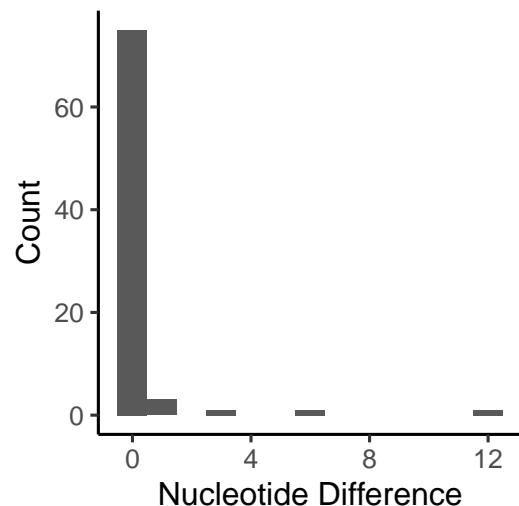
IGHV4-59*01

98 sequences assigned
93 (94.9%) exact matches, in which:
93 unique CDR3
6 unique J



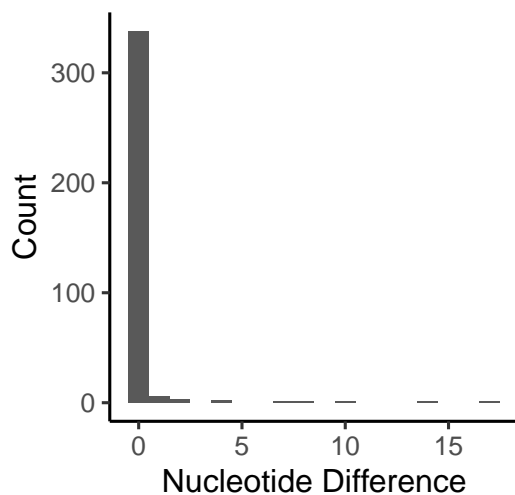
IGHV5-10-1*03

81 sequences assigned
75 (92.6%) exact matches, in which:
74 unique CDR3
6 unique J



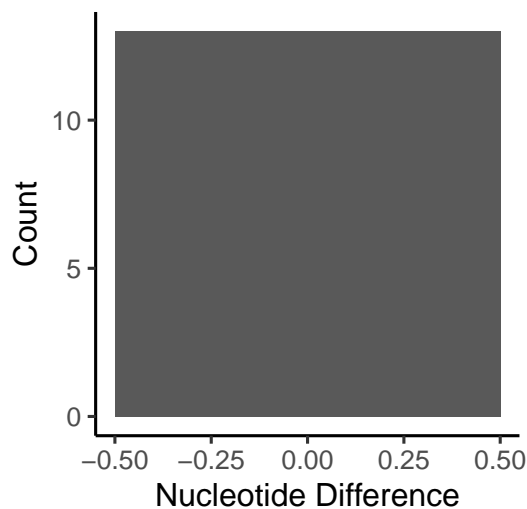
IGHV4-34*01

354 sequences assigned
338 (95.5%) exact matches, in which:
337 unique CDR3
6 unique J



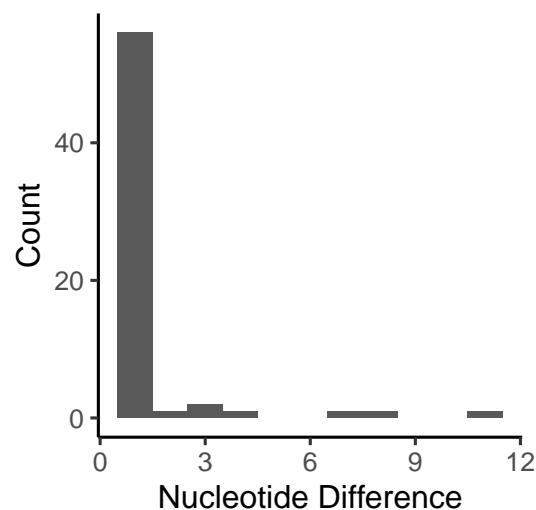
IGHV4-61*01

13 sequences assigned
13 (100%) exact matches, in which:
13 unique CDR3
2 unique J



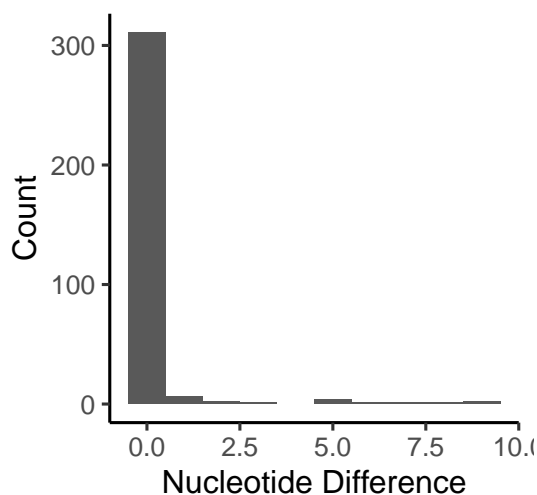
IGHV5-51*01

63 sequences assigned
No exact matches.



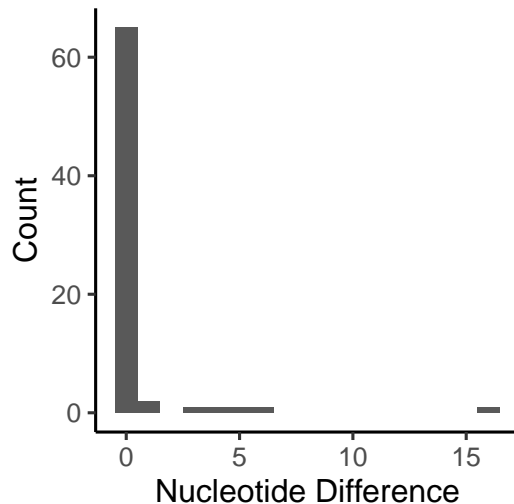
IGHV4-39*01

329 sequences assigned
311 (94.5%) exact matches, in which:
310 unique CDR3
6 unique J



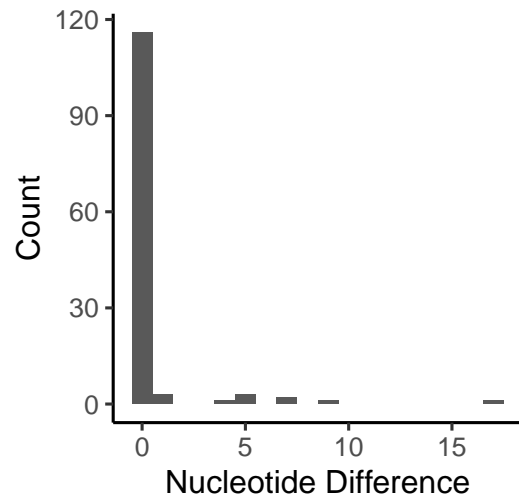
IGHV4-61*02

72 sequences assigned
65 (90.3%) exact matches, in which:
65 unique CDR3
6 unique J



IGHV5-51*03

127 sequences assigned
116 (91.3%) exact matches, in which:
115 unique CDR3
6 unique J



IGHV6-1*01

60 sequences assigned
59 (98.3%) exact matches, in which:
59 unique CDR3
5 unique J

