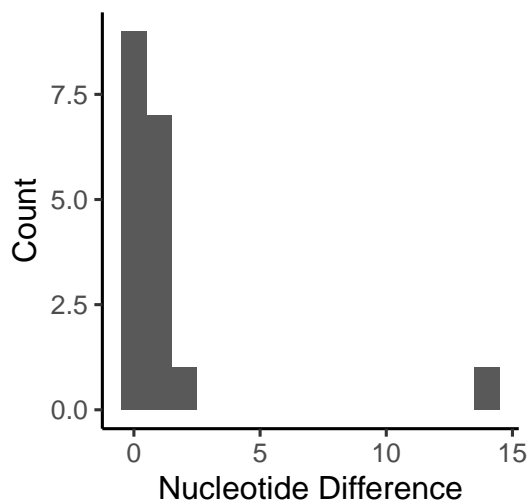


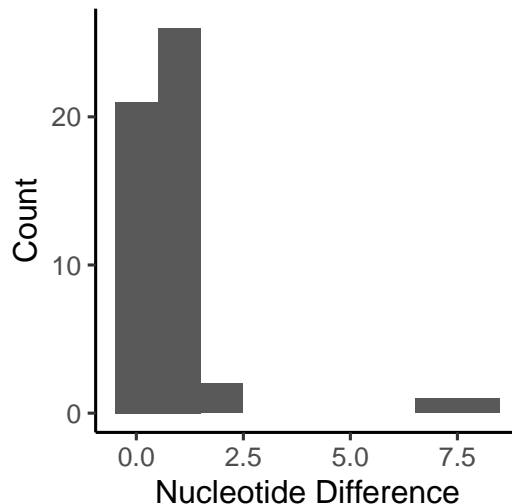
IGHV1-2*04

62 sequences assigned
9 (14.5%) exact matches, in which:
6 unique CDR3
3 unique J



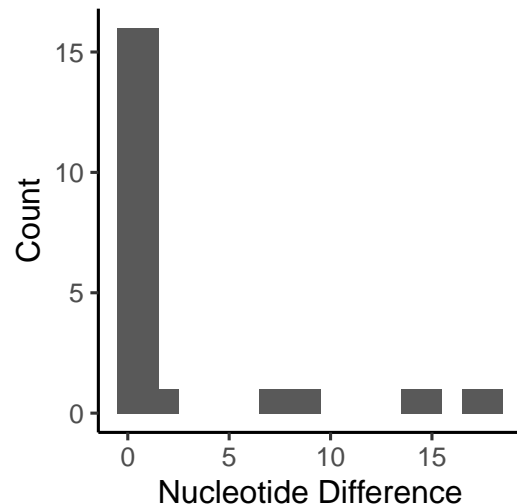
IGHV1-8*01

52 sequences assigned
21 (40.4%) exact matches, in which:
18 unique CDR3
3 unique J



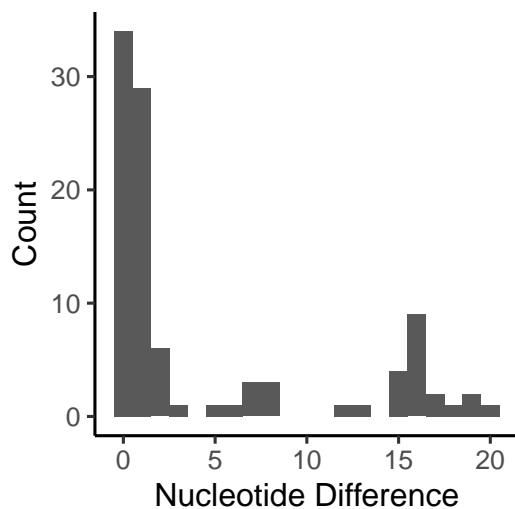
IGHV1-46*01

45 sequences assigned
16 (35.6%) exact matches, in which:
16 unique CDR3
4 unique J



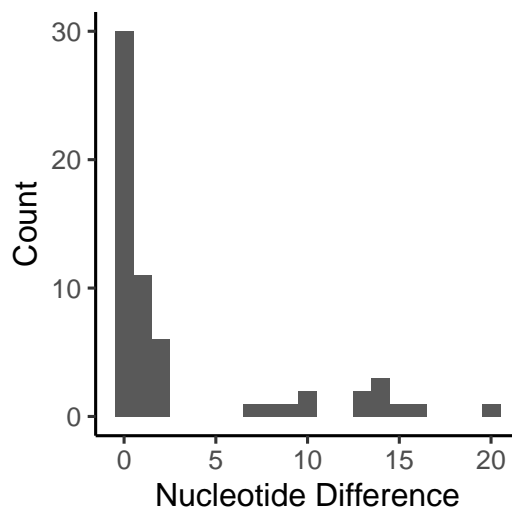
IGHV1-2*02_C135T

111 sequences assigned
34 (30.6%) exact matches, in which:
27 unique CDR3
4 unique J



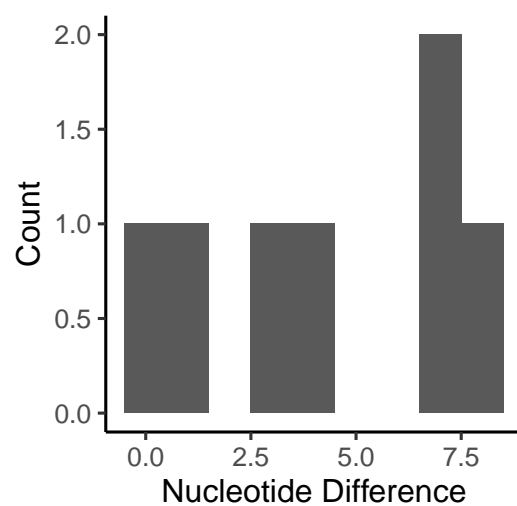
IGHV1-18*01

66 sequences assigned
30 (45.5%) exact matches, in which:
28 unique CDR3
4 unique J



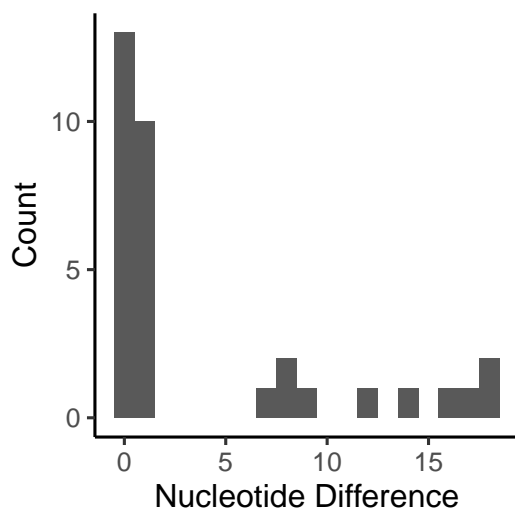
IGHV1-58*01_03

7 sequences assigned
1 (14.3%) exact matches, in which:
1 unique CDR3
1 unique J



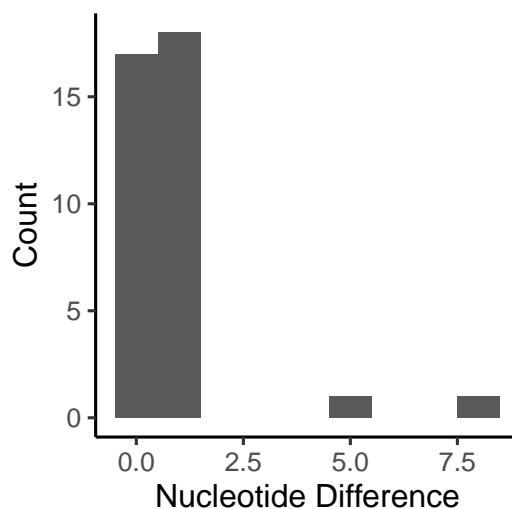
IGHV1-3*01_05

35 sequences assigned
13 (37.1%) exact matches, in which:
12 unique CDR3
4 unique J



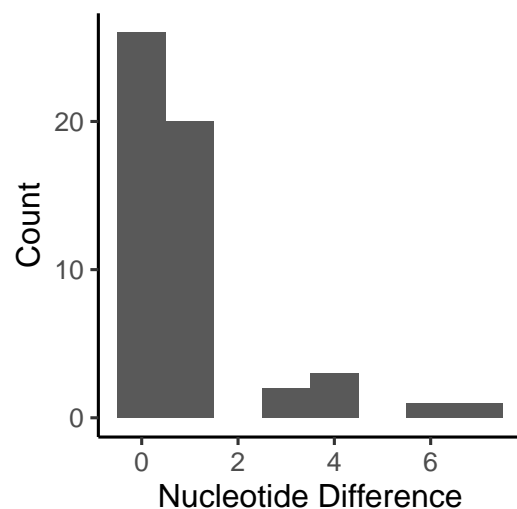
IGHV1-24*01

37 sequences assigned
17 (45.9%) exact matches, in which:
11 unique CDR3
3 unique J



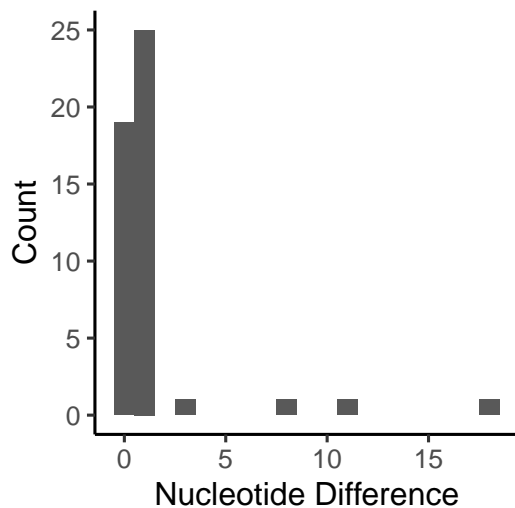
IGHV1-69*01_12_13

57 sequences assigned
26 (45.6%) exact matches, in which:
26 unique CDR3
5 unique J



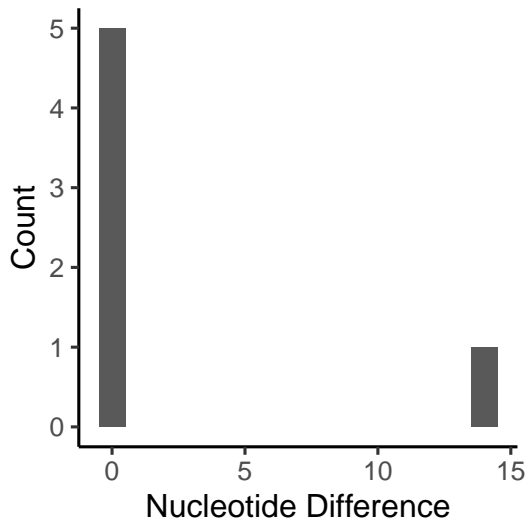
IGHV1-69*04_09

50 sequences assigned
19 (38%) exact matches, in which:
16 unique CDR3
4 unique J



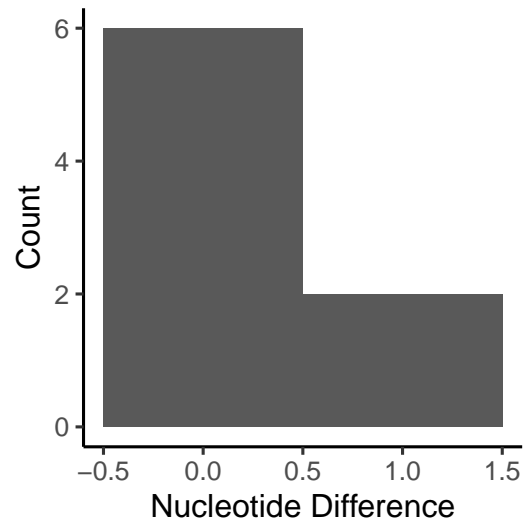
IGHV2-26*01

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



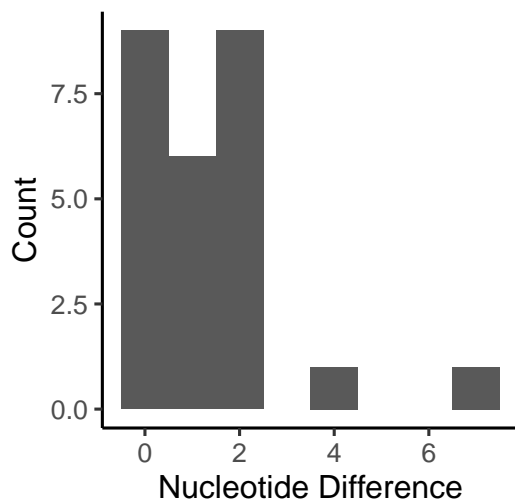
IGHV2-70*11_15

8 sequences assigned
6 (75%) exact matches, in which:
5 unique CDR3
3 unique J



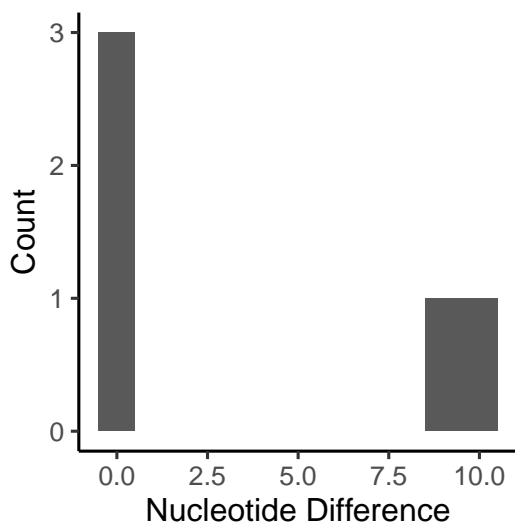
IGHV2-5*01

27 sequences assigned
9 (33.3%) exact matches, in which:
8 unique CDR3
2 unique J



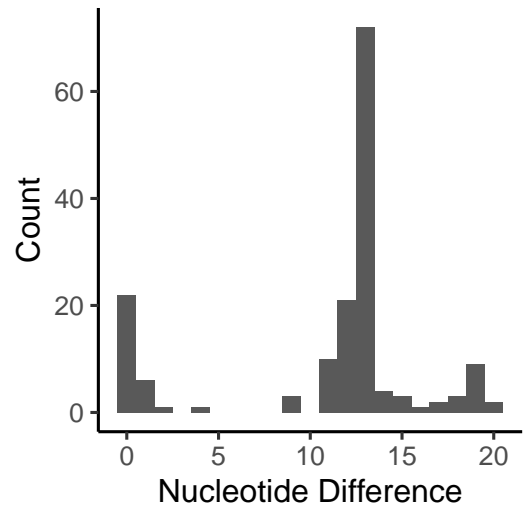
IGHV2-70*01

5 sequences assigned
3 (60%) exact matches, in which:
3 unique CDR3
2 unique J



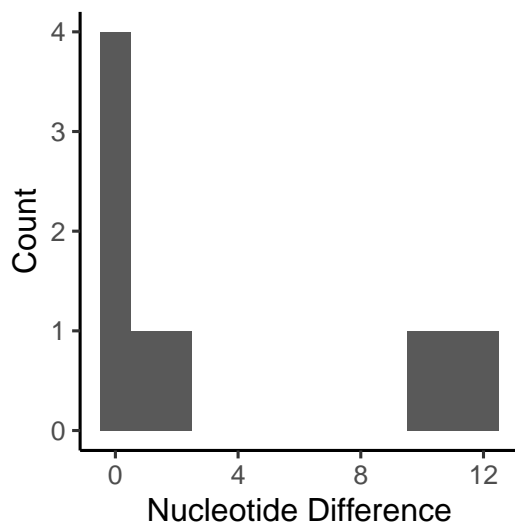
IGHV3-7*01

180 sequences assigned
22 (12.2%) exact matches, in which:
11 unique CDR3
3 unique J



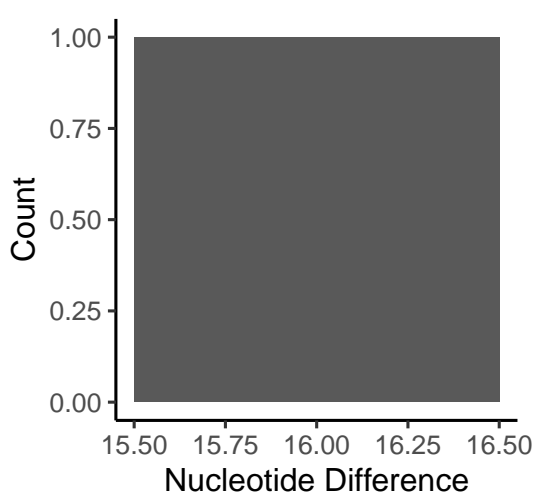
IGHV2-5*02

9 sequences assigned
4 (44.4%) exact matches, in which:
4 unique CDR3
4 unique J



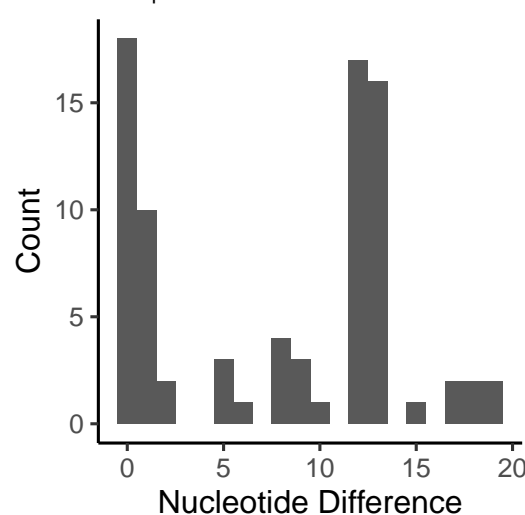
IGHV2-70*20

1 sequences assigned
No exact matches.



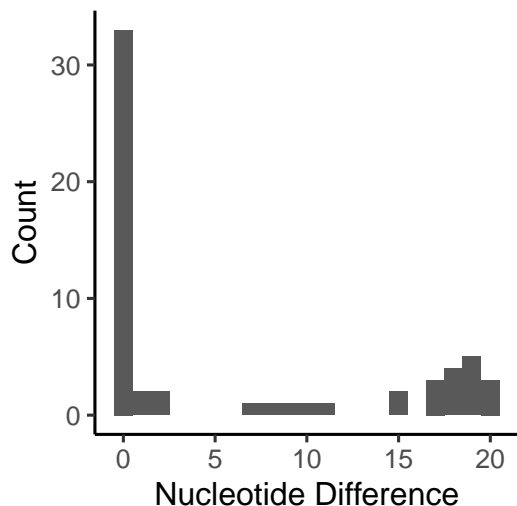
IGHV3-7*04

86 sequences assigned
18 (20.9%) exact matches, in which:
11 unique CDR3
4 unique J



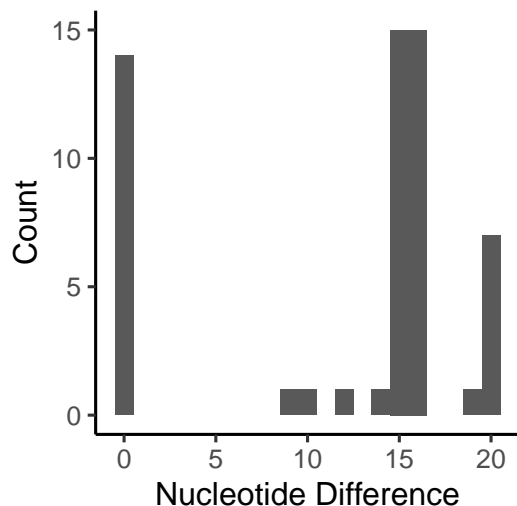
IGHV3-9*01

67 sequences assigned
33 (49.3%) exact matches, in which:
20 unique CDR3
3 unique J



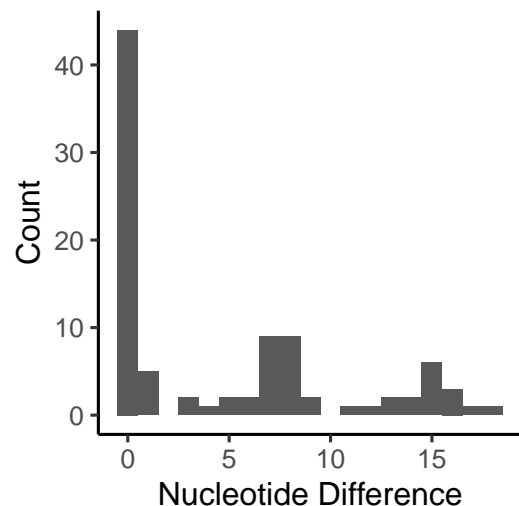
IGHV3-11*03_05

66 sequences assigned
14 (21.2%) exact matches, in which:
7 unique CDR3
4 unique J



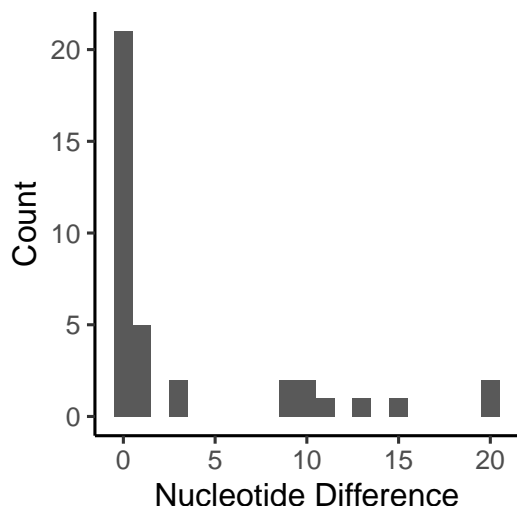
IGHV3-15*01_02

131 sequences assigned
44 (33.6%) exact matches, in which:
28 unique CDR3
5 unique J



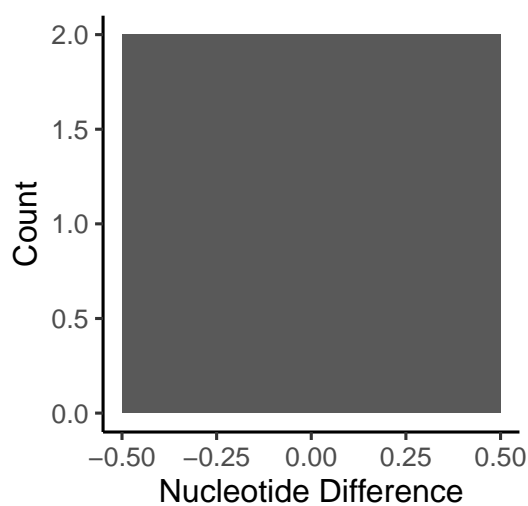
IGHV3-11*01

49 sequences assigned
21 (42.9%) exact matches, in which:
11 unique CDR3
3 unique J



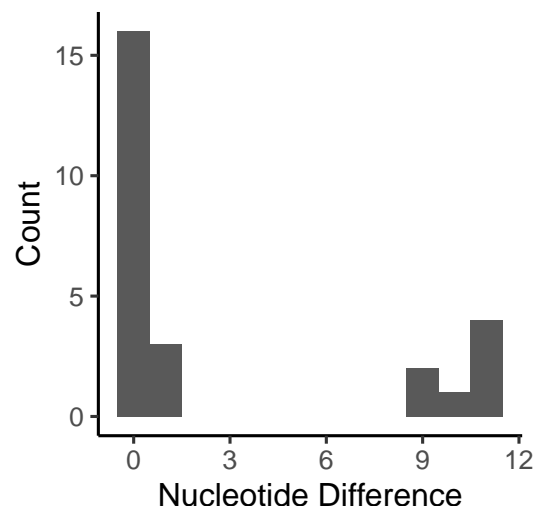
IGHV3-13*01

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



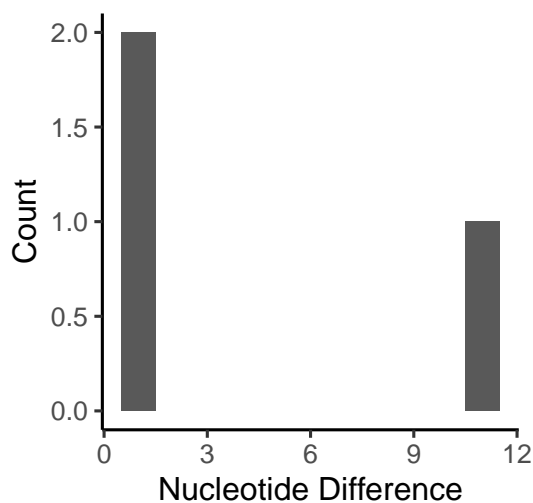
IGHV3-20*03_04

26 sequences assigned
16 (61.5%) exact matches, in which:
12 unique CDR3
3 unique J



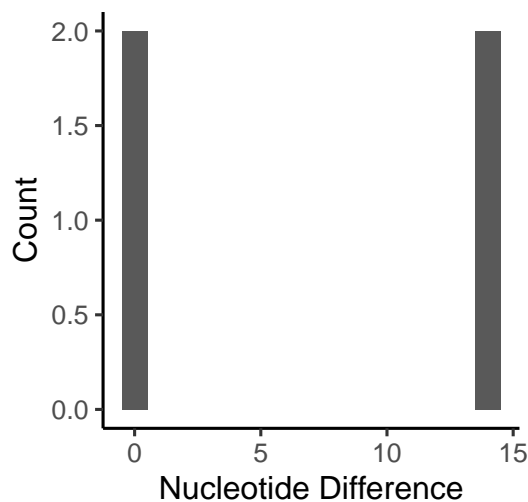
IGHV3-11*06

6 sequences assigned
No exact matches.



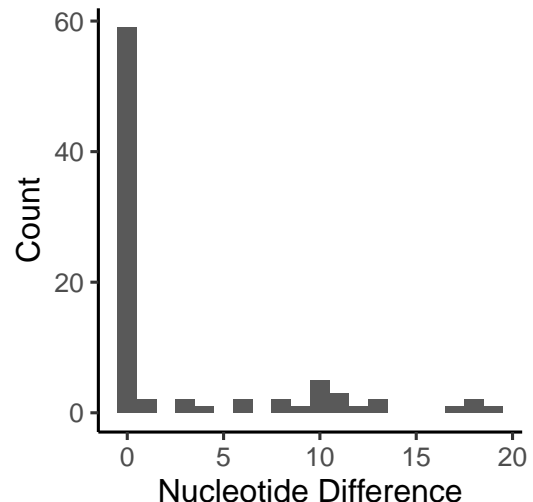
IGHV3-13*04

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



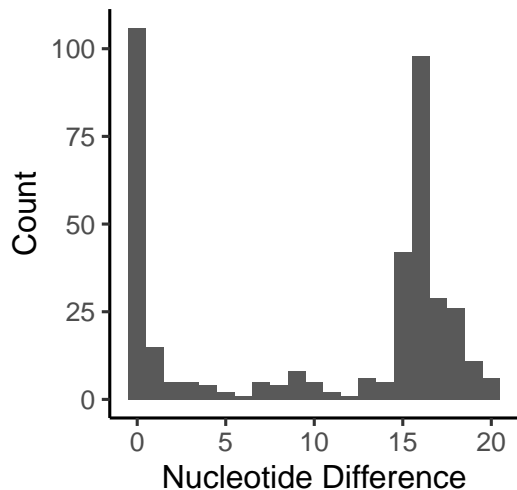
IGHV3-21*01_02

84 sequences assigned
59 (70.2%) exact matches, in which:
34 unique CDR3
4 unique J



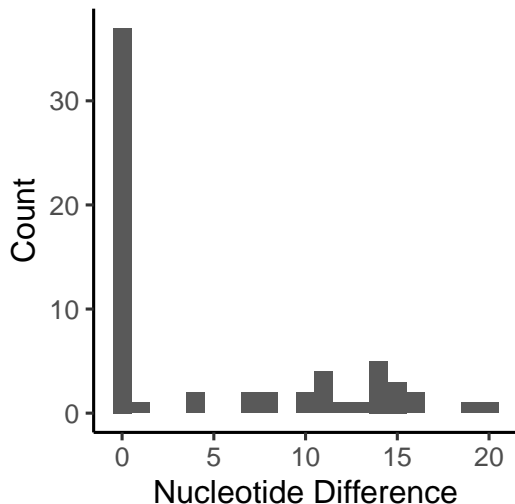
IGHV3-23*01_04

505 sequences assigned
106 (21%) exact matches, in which:
59 unique CDR3
5 unique J



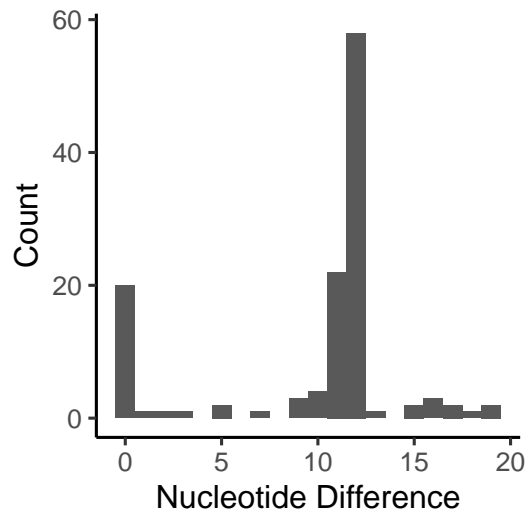
IGHV3-33*01

78 sequences assigned
37 (47.4%) exact matches, in which:
25 unique CDR3
4 unique J



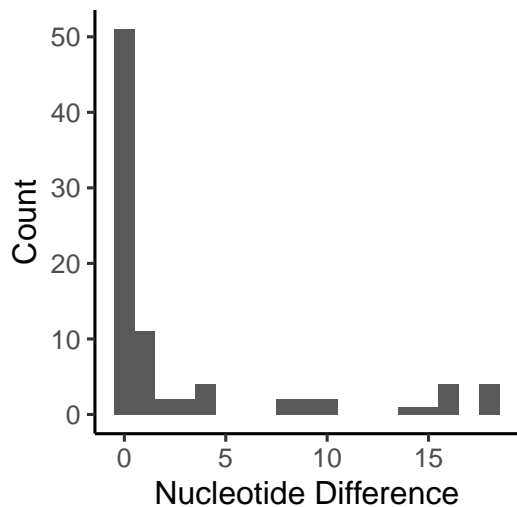
IGHV3-48*03

131 sequences assigned
20 (15.3%) exact matches, in which:
13 unique CDR3
3 unique J



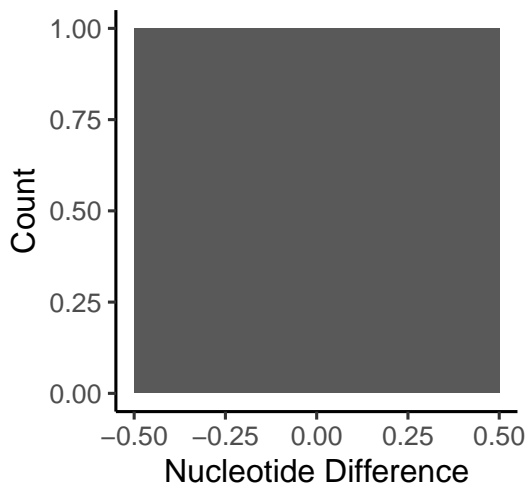
IGHV3-30*01

90 sequences assigned
51 (56.7%) exact matches, in which:
29 unique CDR3
4 unique J



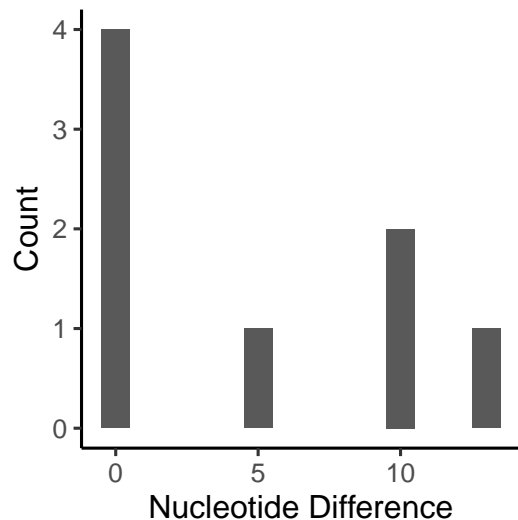
IGHV3-43*01

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



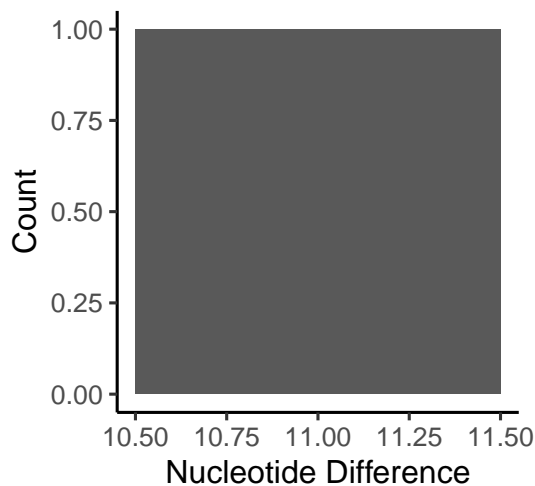
IGHV3-49*04

19 sequences assigned
4 (21.1%) exact matches, in which:
3 unique CDR3
2 unique J



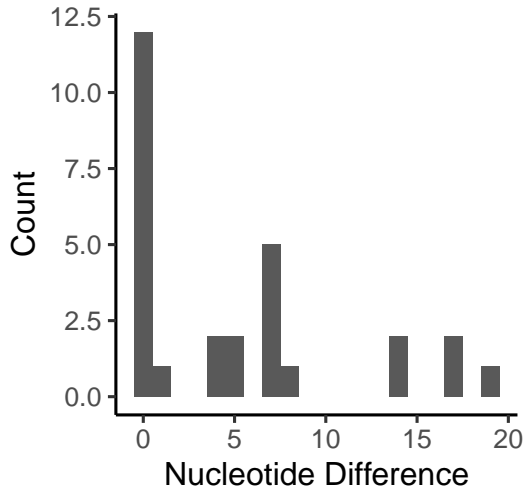
IGHV3-30-3*03

5 sequences assigned
No exact matches.



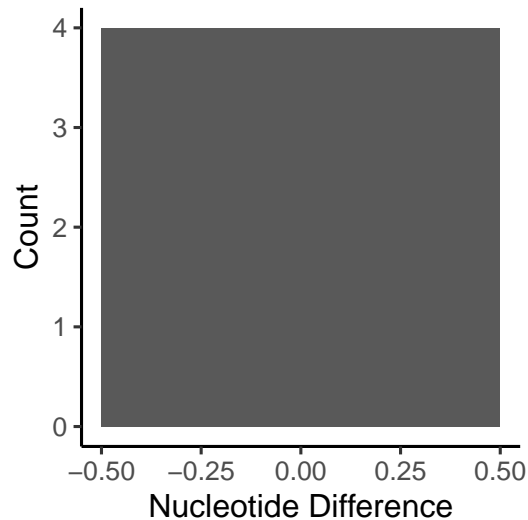
IGHV3-48*02

38 sequences assigned
12 (31.6%) exact matches, in which:
7 unique CDR3
3 unique J



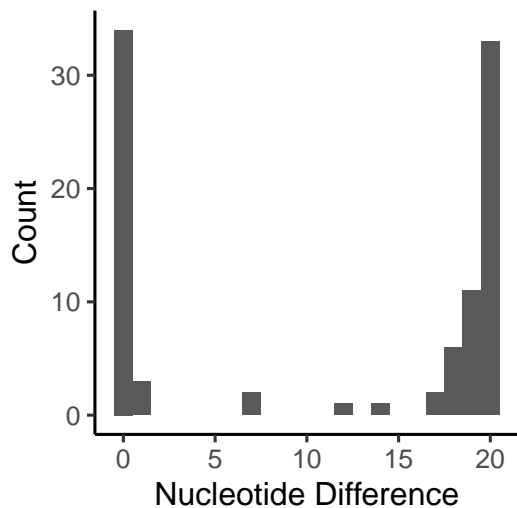
IGHV3-49*03_05

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



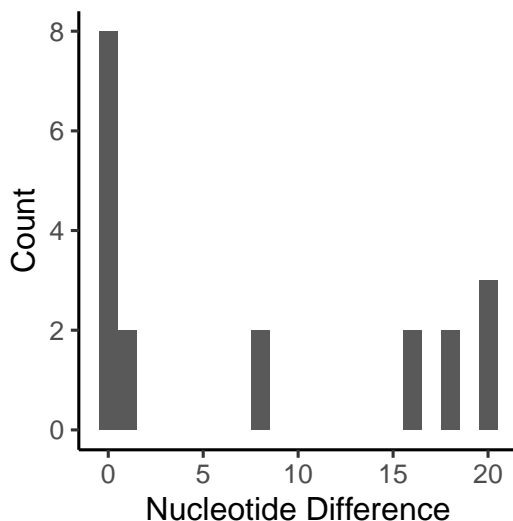
IGHV3–53*01_02

399 sequences assigned
34 (8.5%) exact matches, in which:
19 unique CDR3
3 unique J



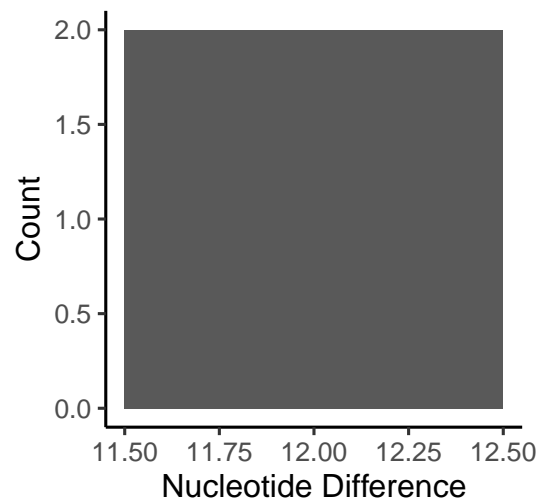
IGHV3–73*01_02

21 sequences assigned
8 (38.1%) exact matches, in which:
4 unique CDR3
2 unique J



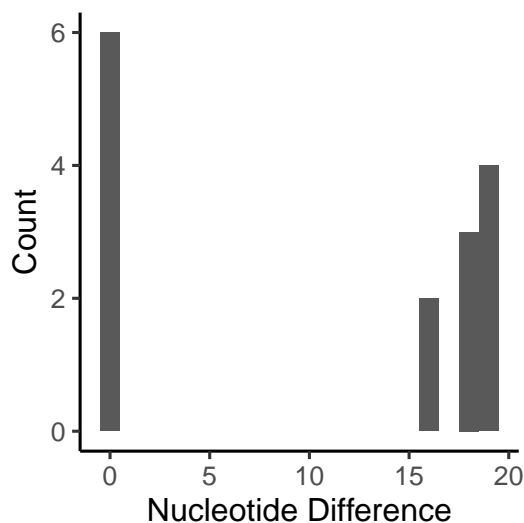
IGHV3–43D*04

2 sequences assigned
No exact matches.



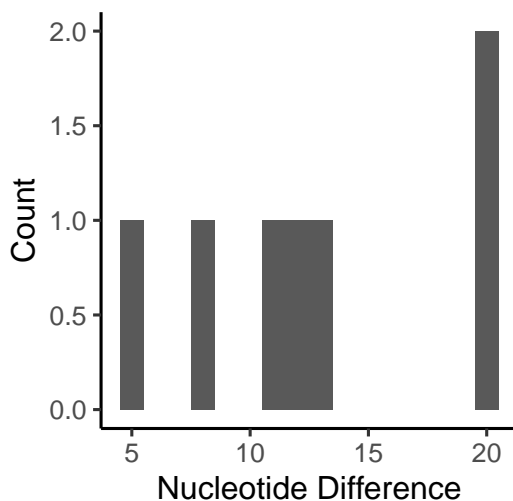
IGHV3–66*01

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



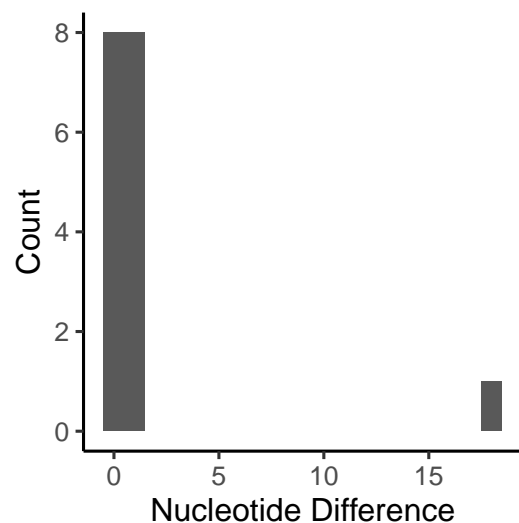
IGHV3–74*03

11 sequences assigned
No exact matches.



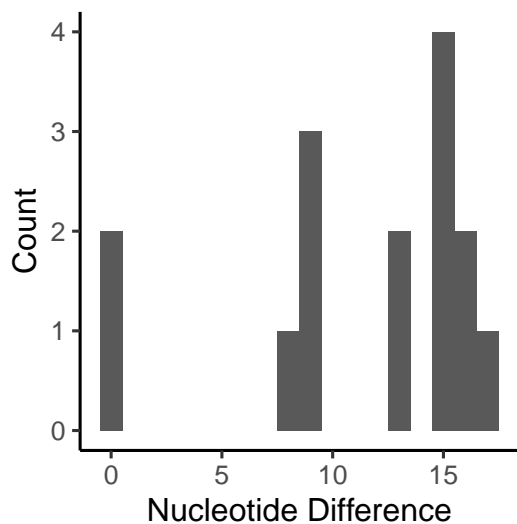
IGHV3–64D*06

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



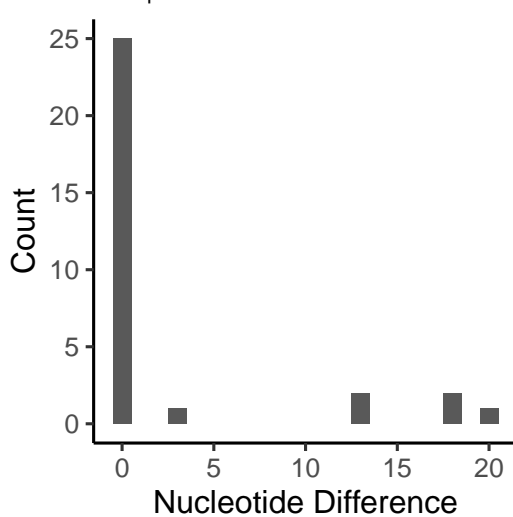
IGHV3–72*01

17 sequences assigned
2 (11.8%) exact matches, in which:
2 unique CDR3
1 unique J



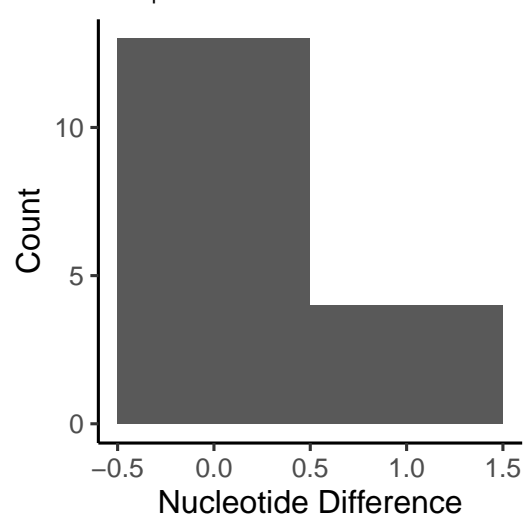
IGHV3–74*01_02

32 sequences assigned
25 (78.1%) exact matches, in which:
14 unique CDR3
5 unique J



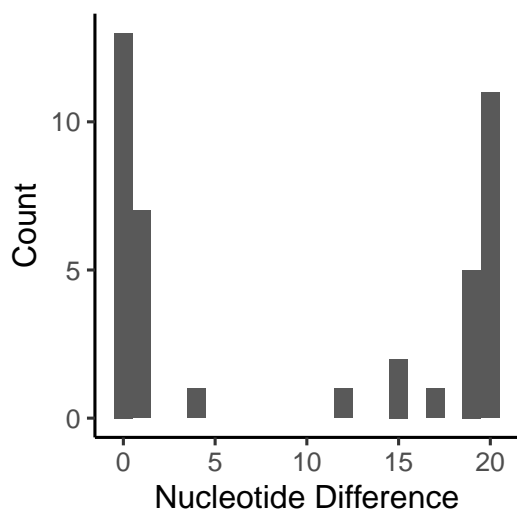
IGHV4–4*07

19 sequences assigned
13 (68.4%) exact matches, in which:
10 unique CDR3
4 unique J



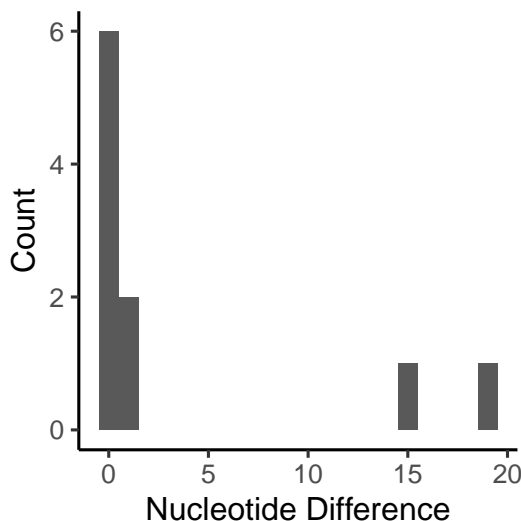
IGHV4-4*02_03

59 sequences assigned
13 (22%) exact matches, in which:
10 unique CDR3
3 unique J



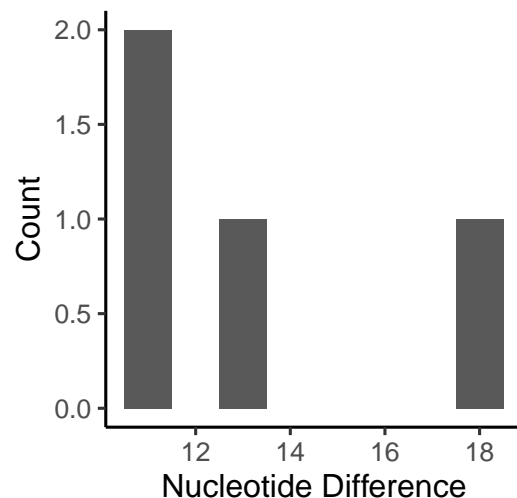
IGHV4-38-2*01

11 sequences assigned
6 (54.5%) exact matches, in which:
5 unique CDR3
3 unique J



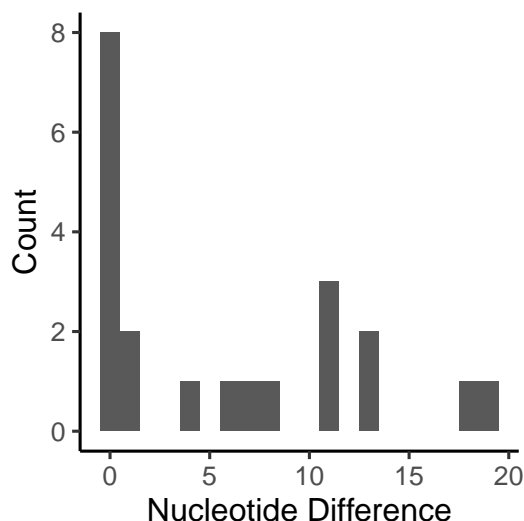
IGHV4-59*11

4 sequences assigned
No exact matches.



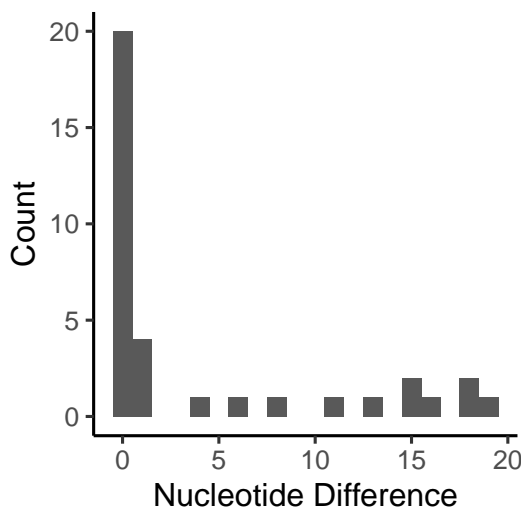
IGHV4-31*02

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



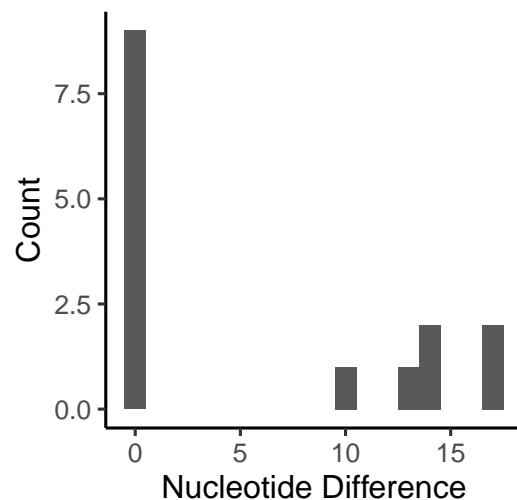
IGHV4-39*02_C258G

42 sequences assigned
20 (47.6%) exact matches, in which:
17 unique CDR3
5 unique J



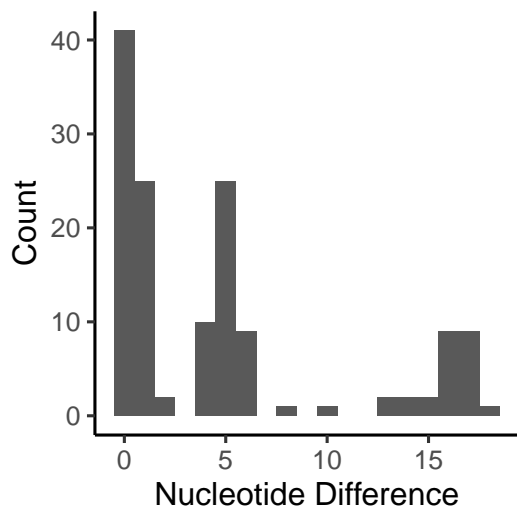
IGHV4-61*01

16 sequences assigned
9 (56.2%) exact matches, in which:
8 unique CDR3
4 unique J



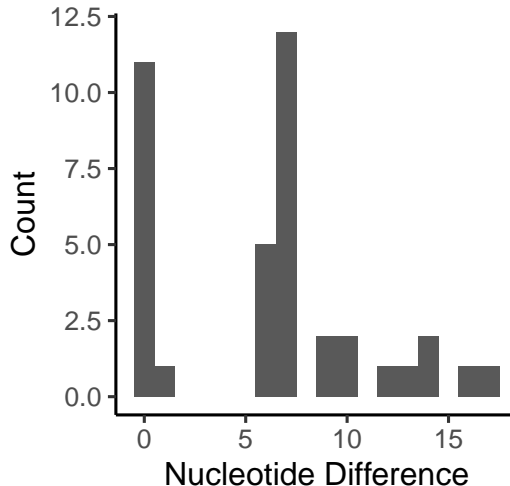
IGHV4-34*01_02

146 sequences assigned
41 (28.1%) exact matches, in which:
35 unique CDR3
5 unique J



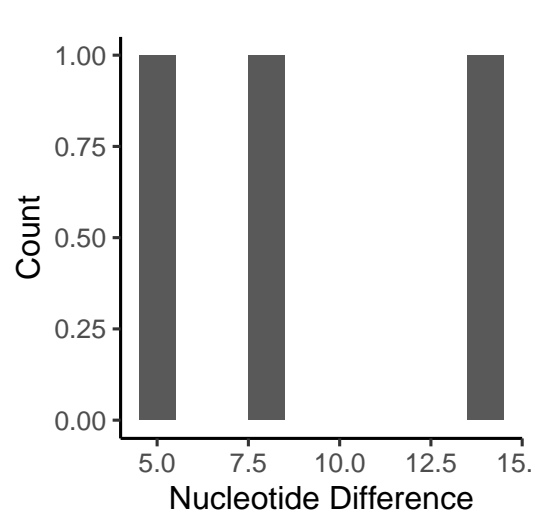
IGHV4-59*01_07

45 sequences assigned
11 (24.4%) exact matches, in which:
11 unique CDR3
3 unique J



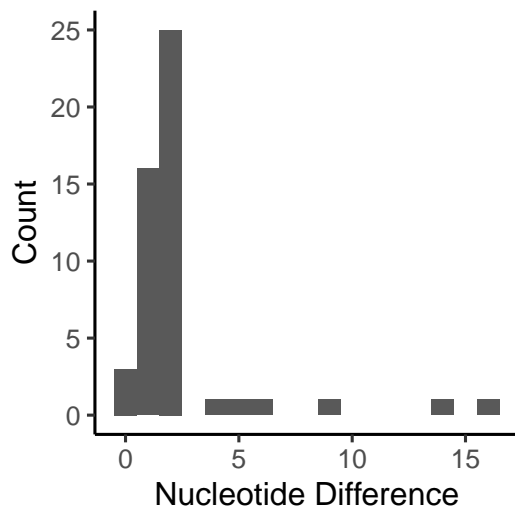
IGHV4-61*08

5 sequences assigned
No exact matches.



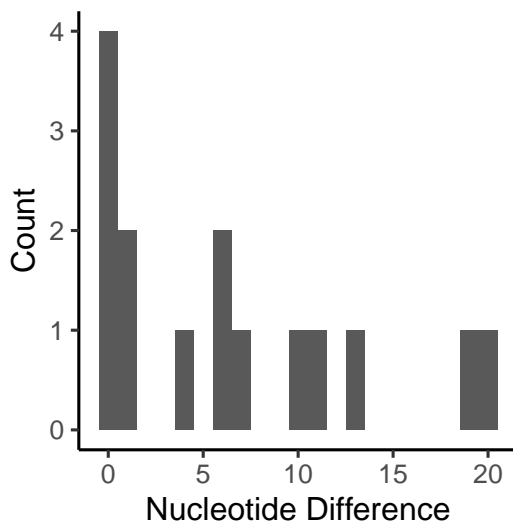
IGHV5-10-1*01_03

52 sequences assigned
3 (5.8%) exact matches, in which:
3 unique CDR3
2 unique J



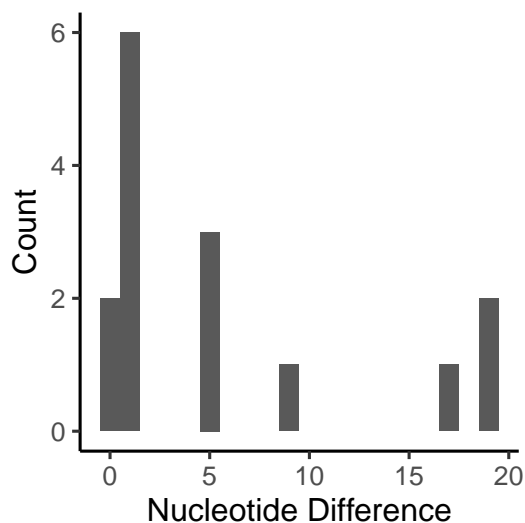
IGHV6-1*01_02

15 sequences assigned
4 (26.7%) exact matches, in which:
4 unique CDR3
3 unique J



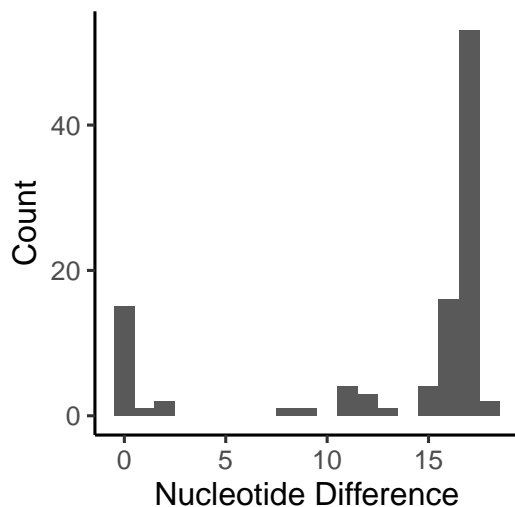
IGHV5-51*07

16 sequences assigned
2 (12.5%) exact matches, in which:
1 unique CDR3
1 unique J



IGHV5-51*01_03

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





Warning – no inferred sequences found.