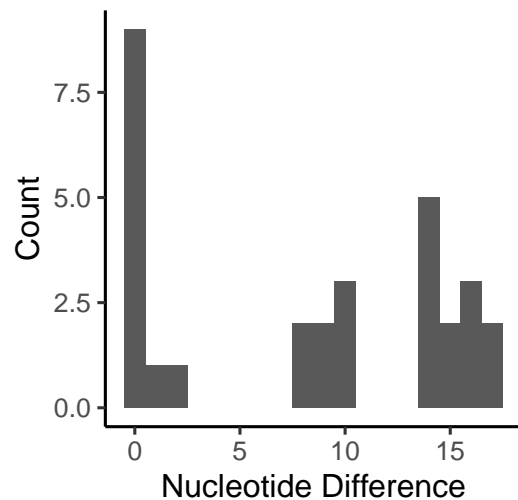


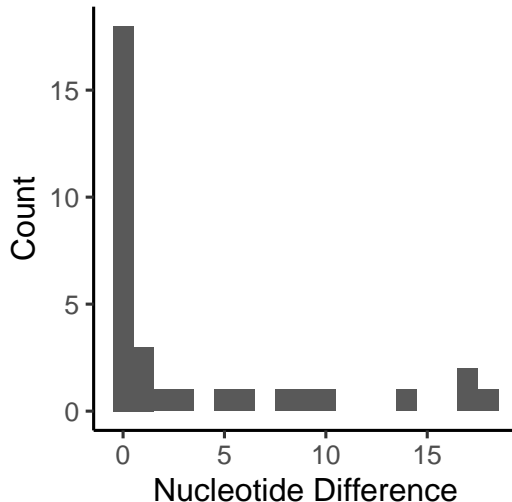
IGHV1-2*02

58 sequences assigned
9 (15.5%) exact matches, in which:
9 unique CDR3
3 unique J



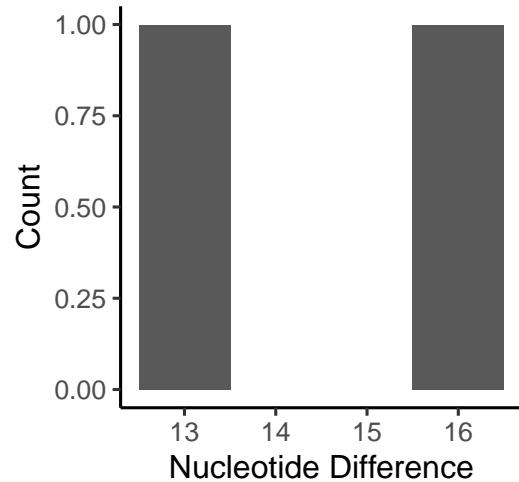
IGHV1-8*03

40 sequences assigned
18 (45%) exact matches, in which:
18 unique CDR3
5 unique J



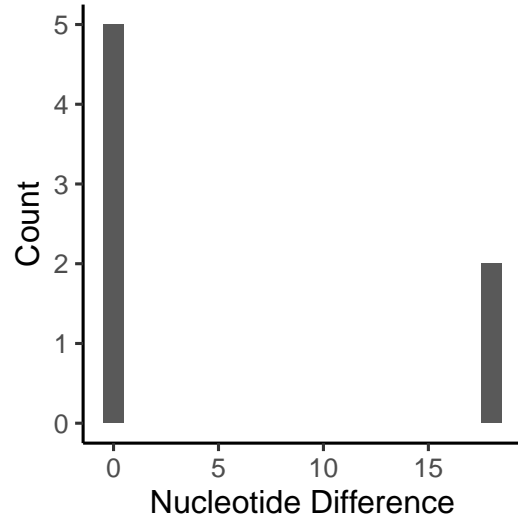
IGHV1-45*02

2 sequences assigned
No exact matches.



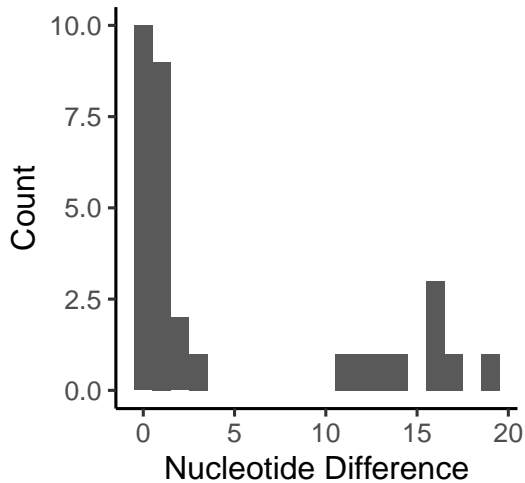
IGHV1-2*04

10 sequences assigned
5 (50%) exact matches, in which:
5 unique CDR3
3 unique J



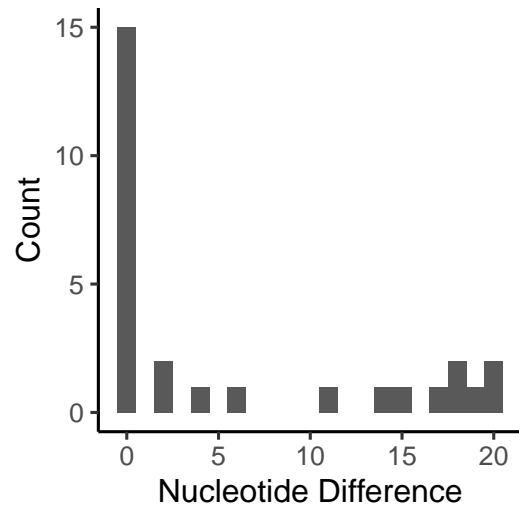
IGHV1-18*01

51 sequences assigned
10 (19.6%) exact matches, in which:
10 unique CDR3
4 unique J



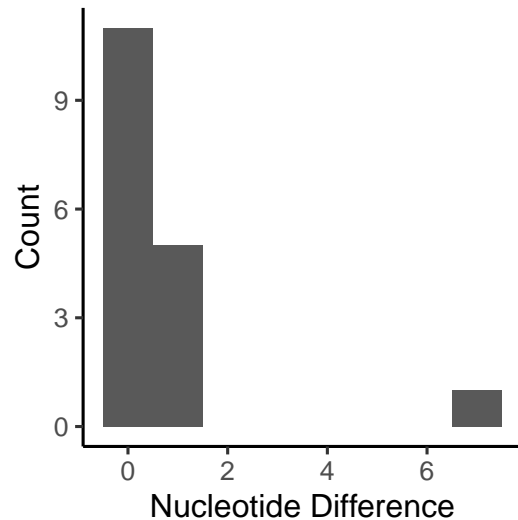
IGHV1-46*01

41 sequences assigned
15 (36.6%) exact matches, in which:
15 unique CDR3
5 unique J



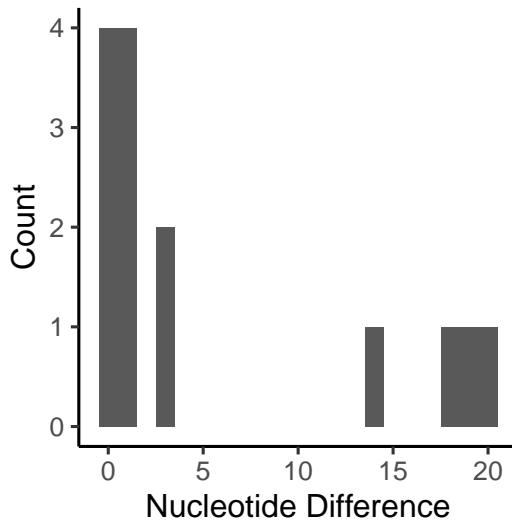
IGHV1-3*01

25 sequences assigned
11 (44%) exact matches, in which:
10 unique CDR3
3 unique J



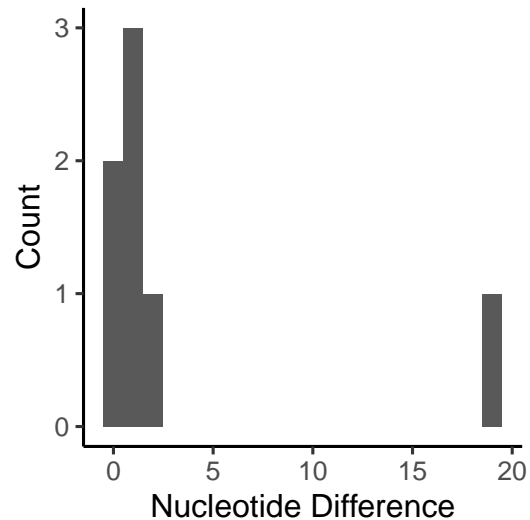
IGHV1-24*01

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



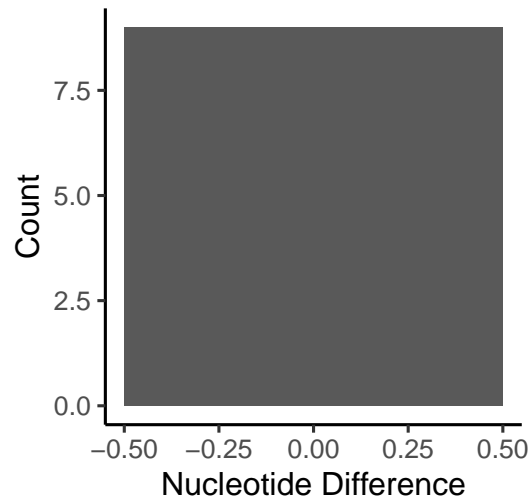
IGHV1-69-2*01

12 sequences assigned
2 (16.7%) exact matches, in which:
2 unique CDR3
1 unique J



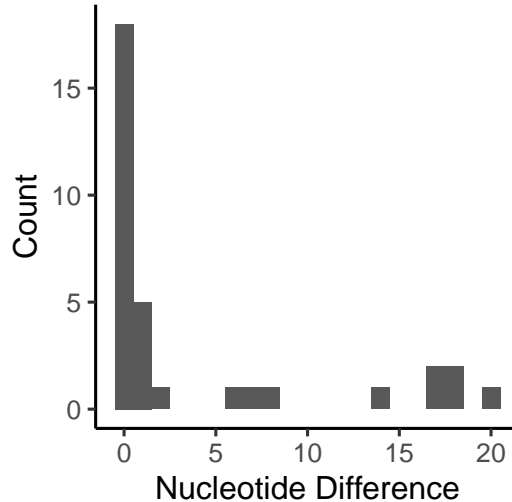
IGHV1-69*02

13 sequences assigned
9 (69.2%) exact matches, in which:
9 unique CDR3
4 unique J



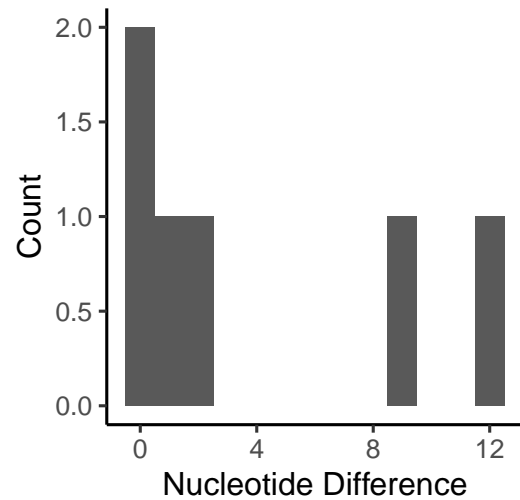
IGHV1-69*04_A163G

42 sequences assigned
18 (42.9%) exact matches, in which:
17 unique CDR3
4 unique J



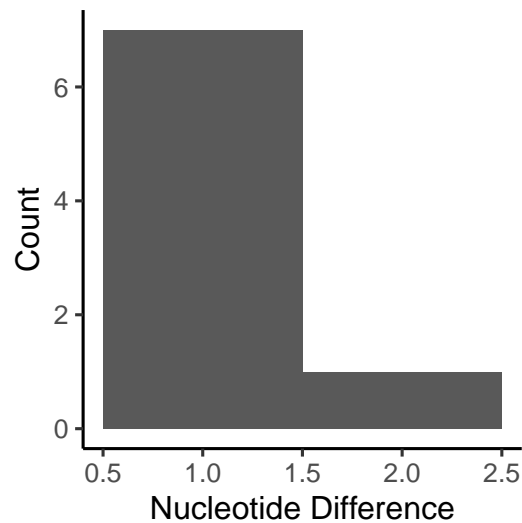
IGHV2-70*15

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



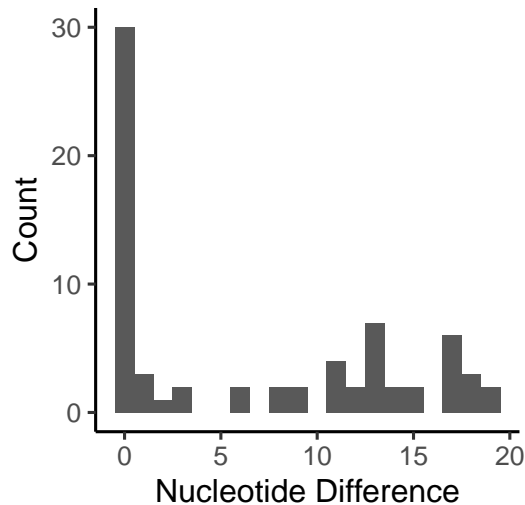
IGHV1-69*08

9 sequences assigned
No exact matches.



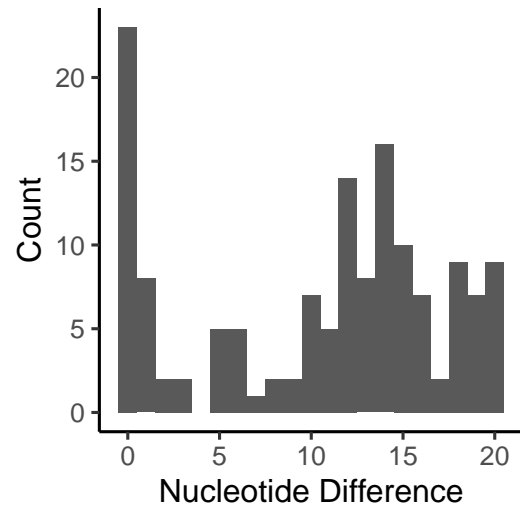
IGHV2-5*01

78 sequences assigned
30 (38.5%) exact matches, in which:
29 unique CDR3
4 unique J



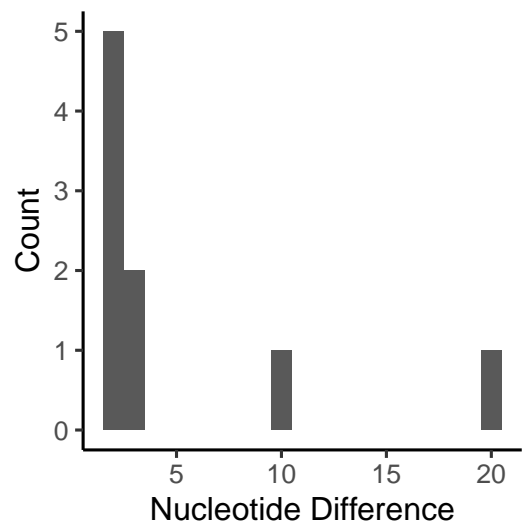
IGHV3-7*01

192 sequences assigned
23 (12%) exact matches, in which:
23 unique CDR3
6 unique J



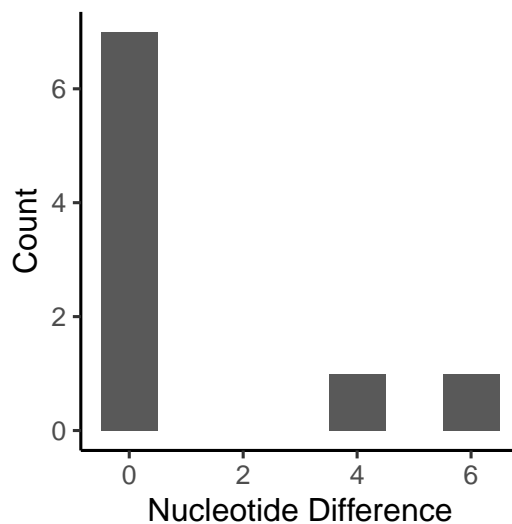
IGHV1-69*11

19 sequences assigned
No exact matches.



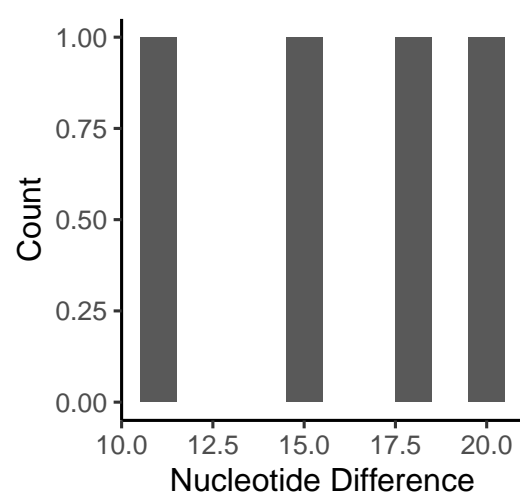
IGHV2-26*01

12 sequences assigned
7 (58.3%) exact matches, in which:
7 unique CDR3
4 unique J



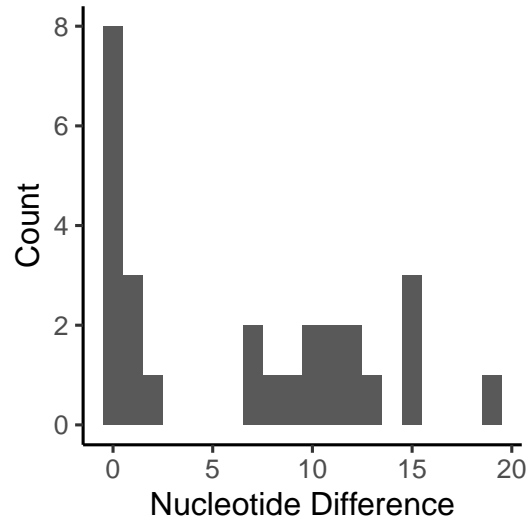
IGHV3-9*01

8 sequences assigned
No exact matches.



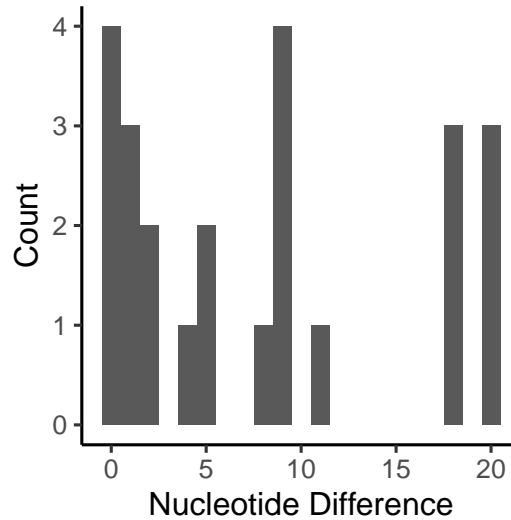
IGHV3-9*03

29 sequences assigned
8 (27.6%) exact matches, in which:
8 unique CDR3
2 unique J



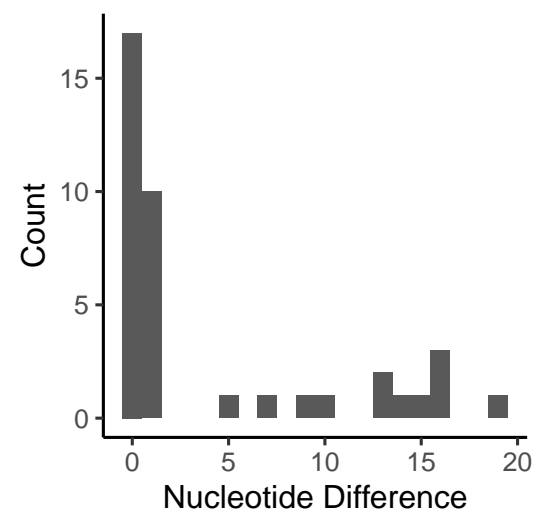
IGHV3-20*04

31 sequences assigned
4 (12.9%) exact matches, in which:
4 unique CDR3
3 unique J



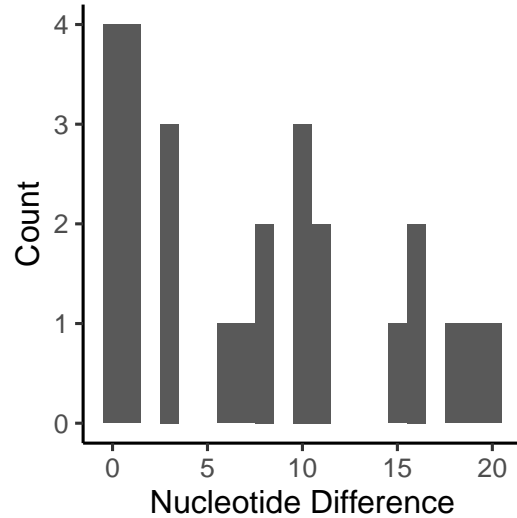
IGHV3-30-3*01

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



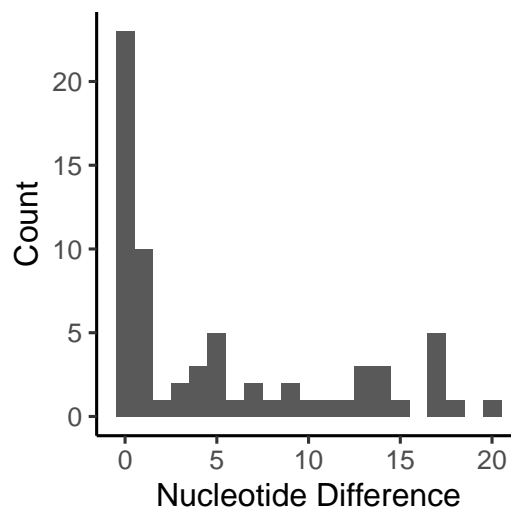
IGHV3-11*04

42 sequences assigned
4 (9.5%) exact matches, in which:
4 unique CDR3
2 unique J



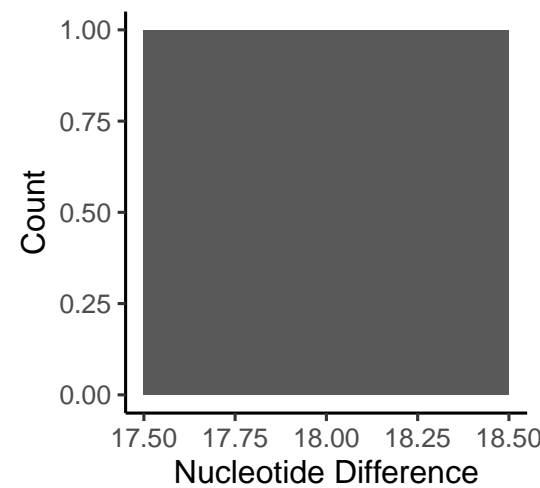
IGHV3-21*01

83 sequences assigned
23 (27.7%) exact matches, in which:
23 unique CDR3
4 unique J



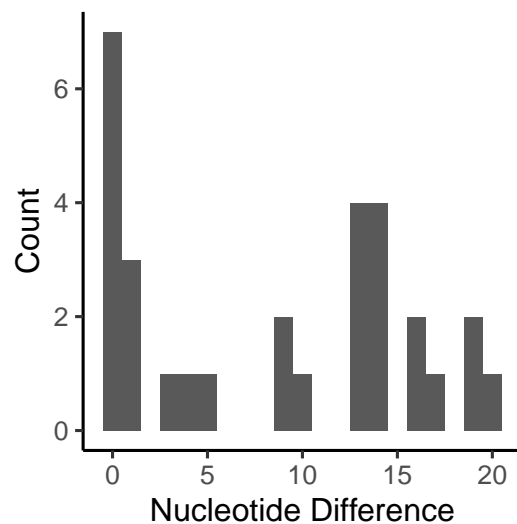
IGHV3-30-3*03

10 sequences assigned
No exact matches.



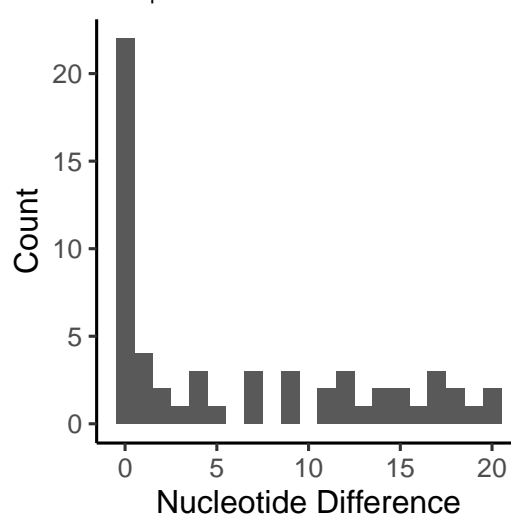
IGHV3-15*01

43 sequences assigned
7 (16.3%) exact matches, in which:
7 unique CDR3
3 unique J



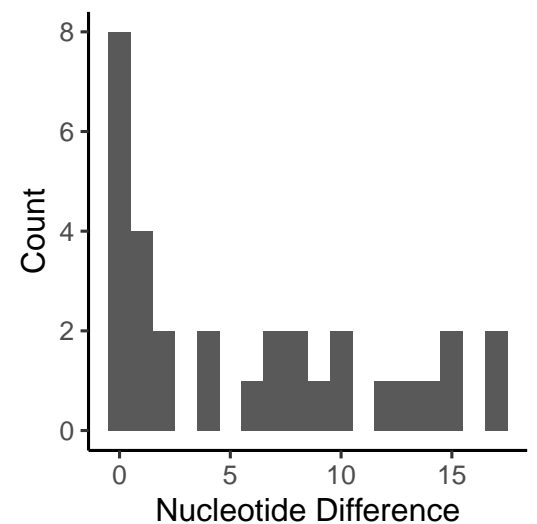
IGHV3-30*01

68 sequences assigned
22 (32.4%) exact matches, in which:
22 unique CDR3
4 unique J



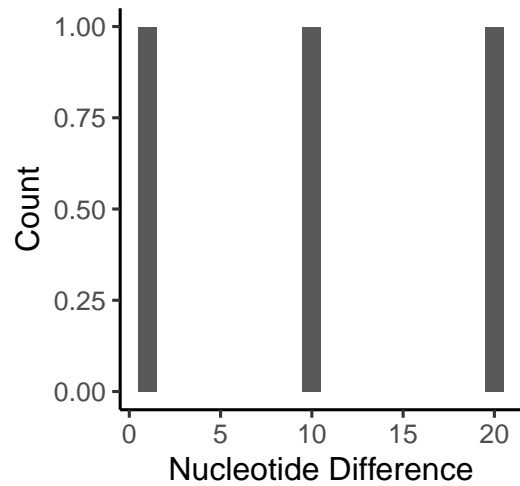
IGHV3-33*06

38 sequences assigned
8 (21.1%) exact matches, in which:
8 unique CDR3
4 unique J



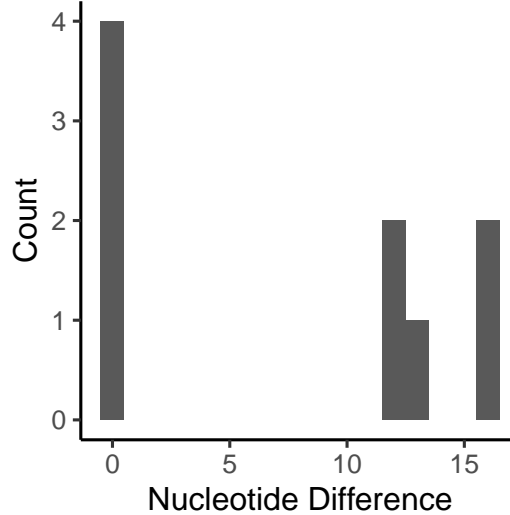
IGHV3-43*01

5 sequences assigned
No exact matches.



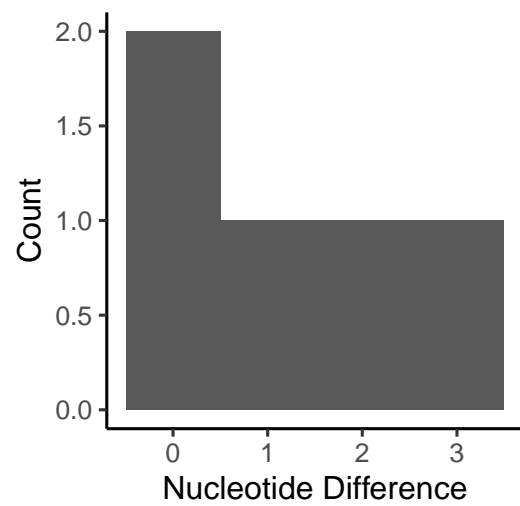
IGHV3-49*03

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



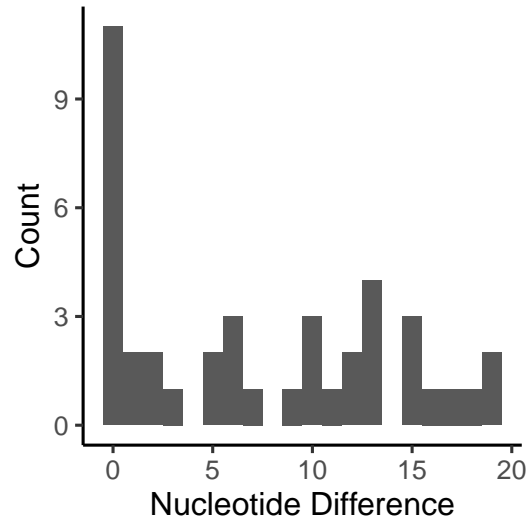
IGHV3-53*04

5 sequences assigned
2 (40%) exact matches, in which:
2 unique CDR3
2 unique J



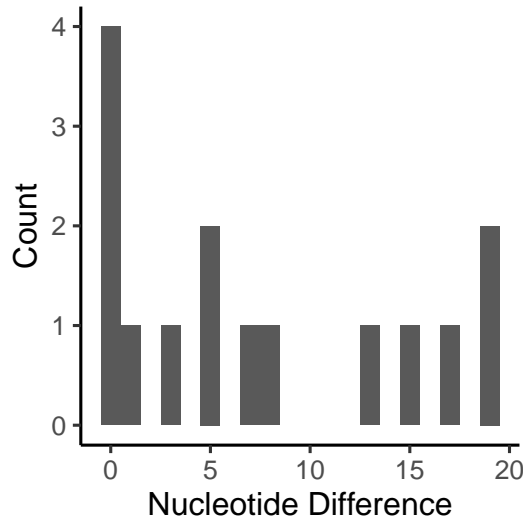
IGHV3-48*03

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



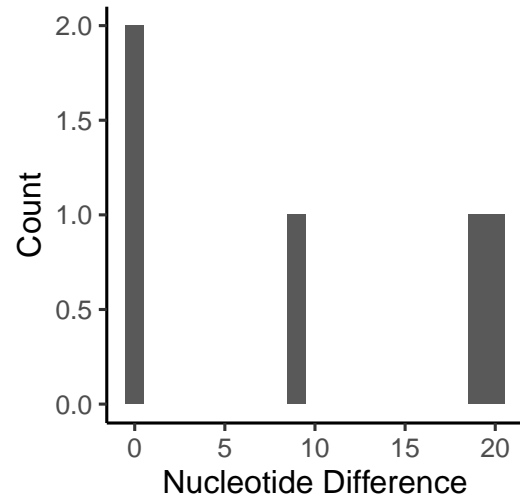
IGHV3-49*04

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



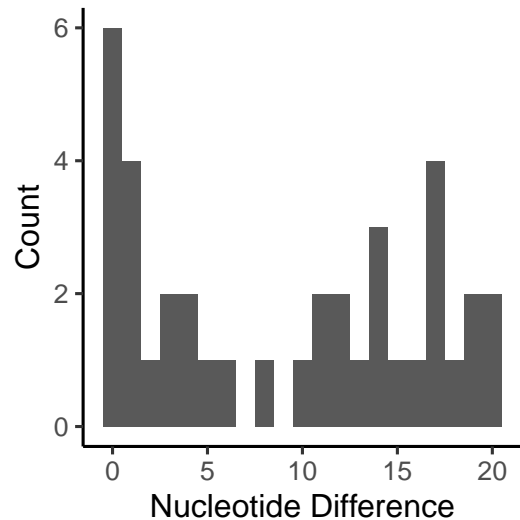
IGHV3-64*01

7 sequences assigned
2 (28.6%) exact matches, in which:
2 unique CDR3
1 unique J



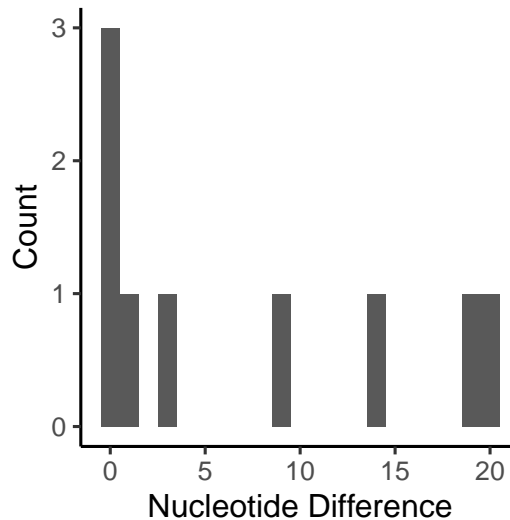
IGHV3-48*04

53 sequences assigned
6 (11.3%) exact matches, in which:
6 unique CDR3
4 unique J



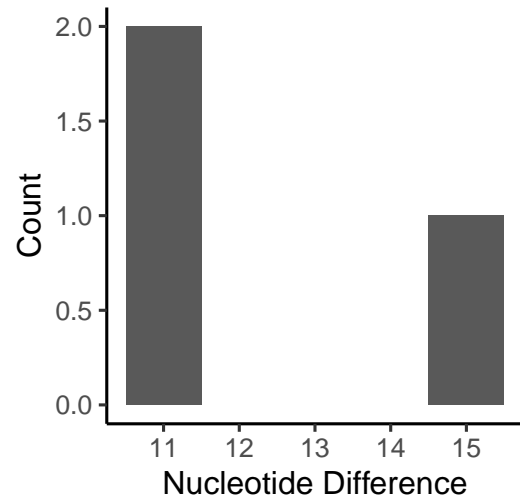
IGHV3-53*01

13 sequences assigned
3 (23.1%) exact matches, in which:
3 unique CDR3
2 unique J



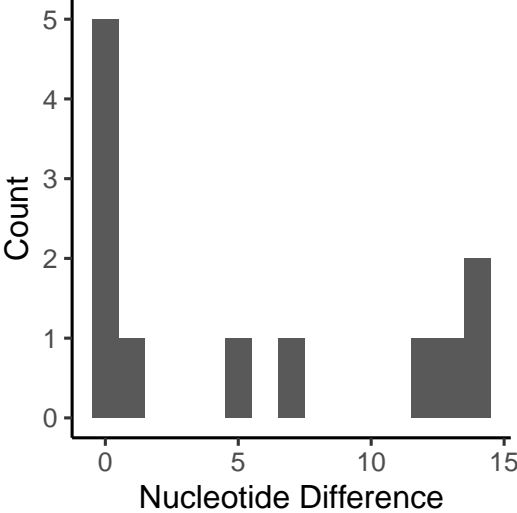
IGHV3-64*07

3 sequences assigned
No exact matches.



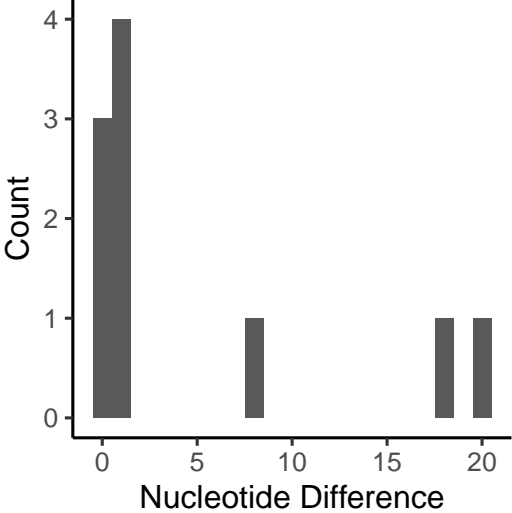
IGHV3-66*02

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



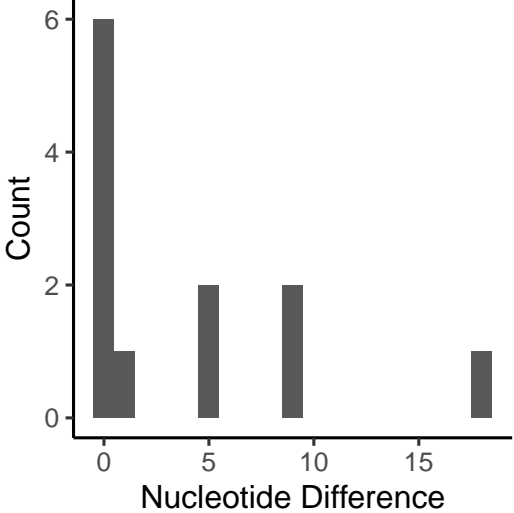
IGHV3-74*01

14 sequences assigned
3 (21.4%) exact matches, in which:
3 unique CDR3
3 unique J



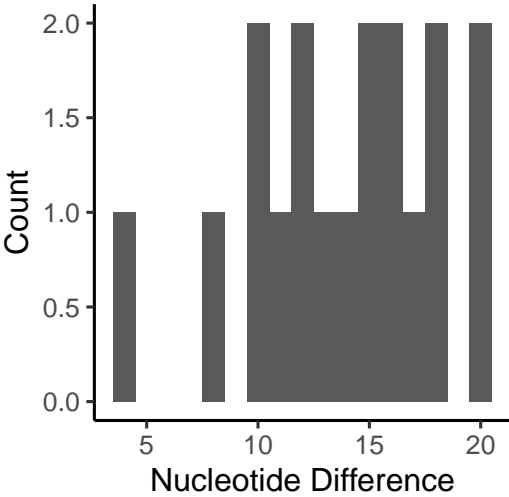
IGHV3-43D*04

13 sequences assigned
6 (46.2%) exact matches, in which:
6 unique CDR3
1 unique J



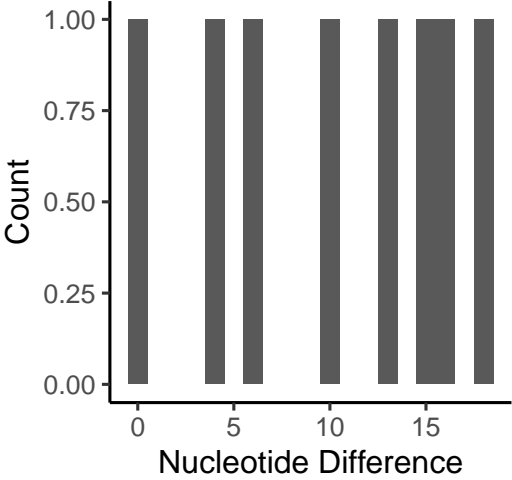
IGHV3-72*01

29 sequences assigned
No exact matches.



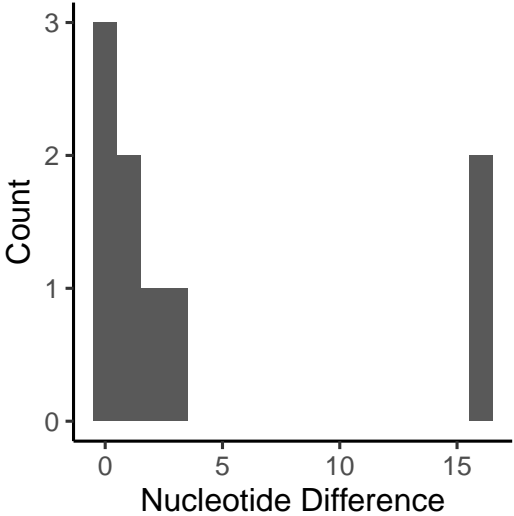
IGHV3-74*02

9 sequences assigned
1 (11.1%) exact matches, in which:
1 unique CDR3
1 unique J



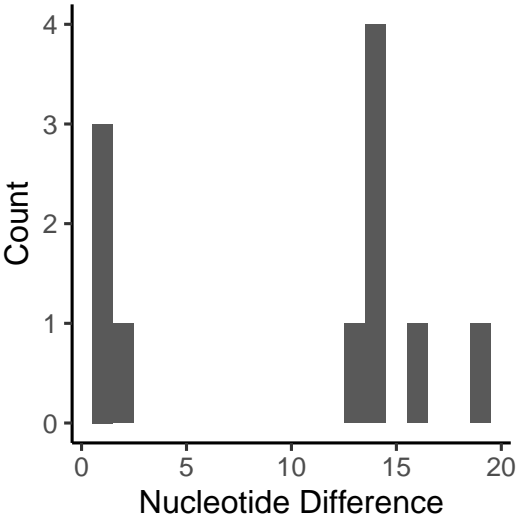
IGHV4-4*02

17 sequences assigned
3 (17.6%) exact matches, in which:
3 unique CDR3
3 unique J



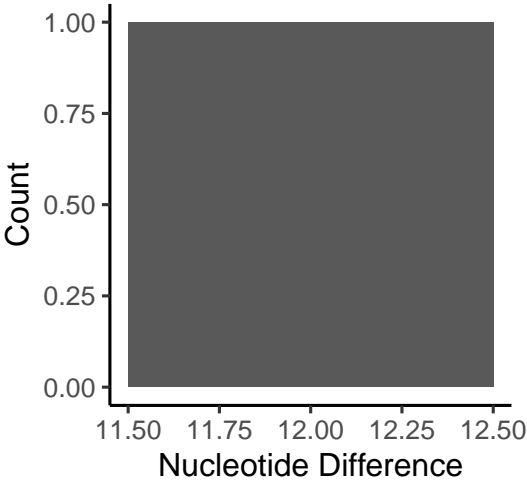
IGHV3-73*01

15 sequences assigned
No exact matches.



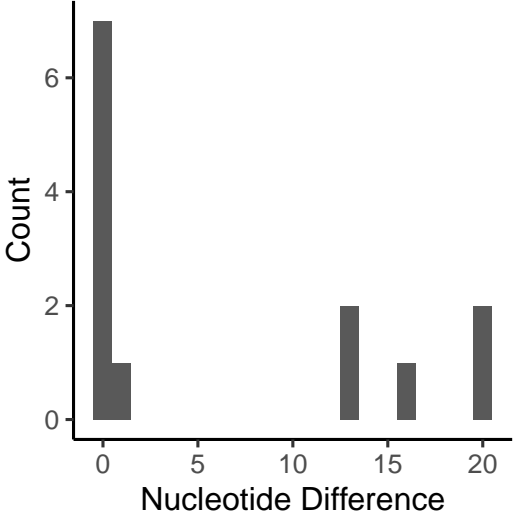
IGHV3-74*03

2 sequences assigned
No exact matches.



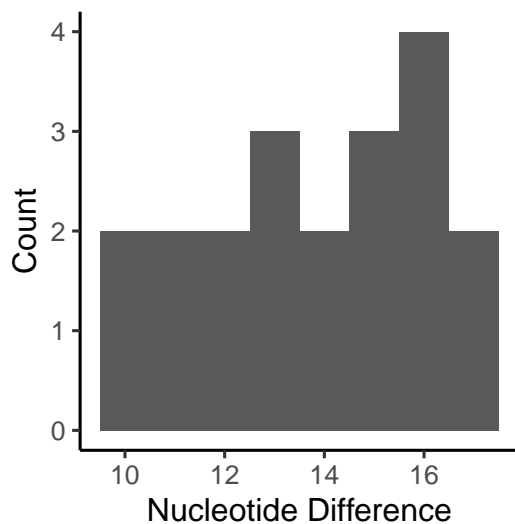
IGHV4-4*07

23 sequences assigned
7 (30.4%) exact matches, in which:
7 unique CDR3
5 unique J



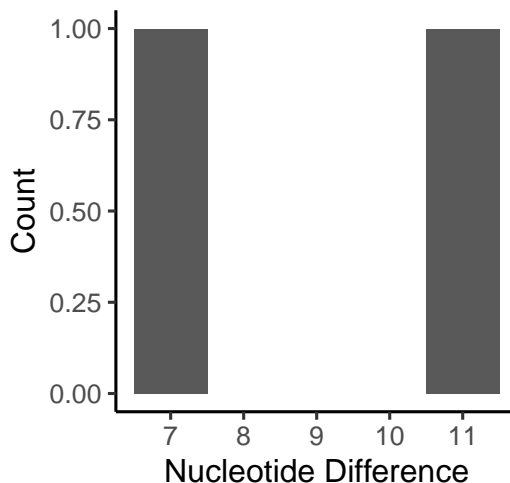
IGHV4-28*01

21 sequences assigned
No exact matches.



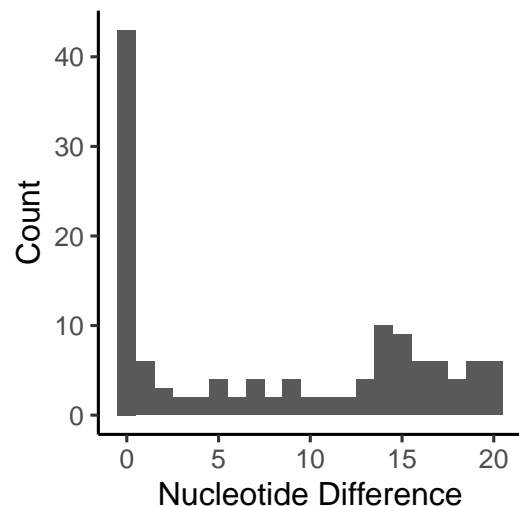
IGHV4-31*01

3 sequences assigned
No exact matches.



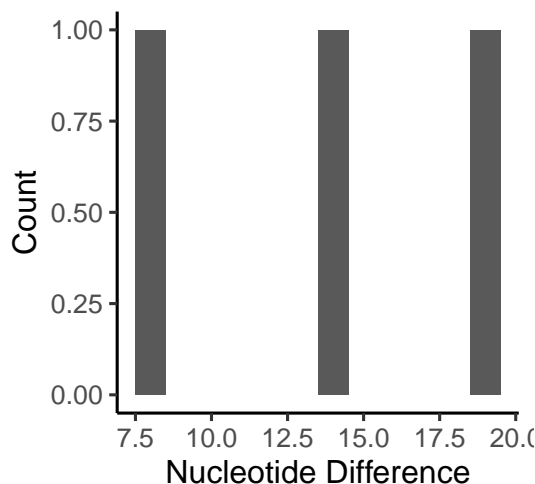
IGHV4-38-2*01

170 sequences assigned
43 (25.3%) exact matches, in which:
43 unique CDR3
6 unique J



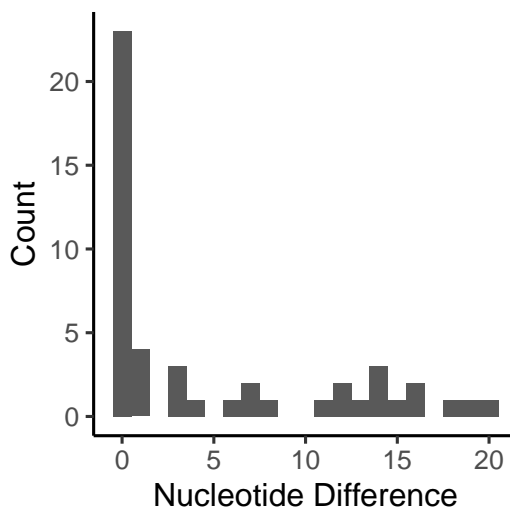
IGHV4-30-4*01

5 sequences assigned
No exact matches.



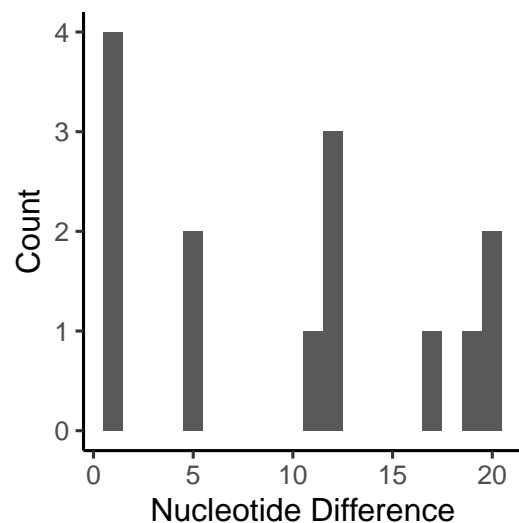
IGHV4-34*01

65 sequences assigned
23 (35.4%) exact matches, in which:
23 unique CDR3
5 unique J



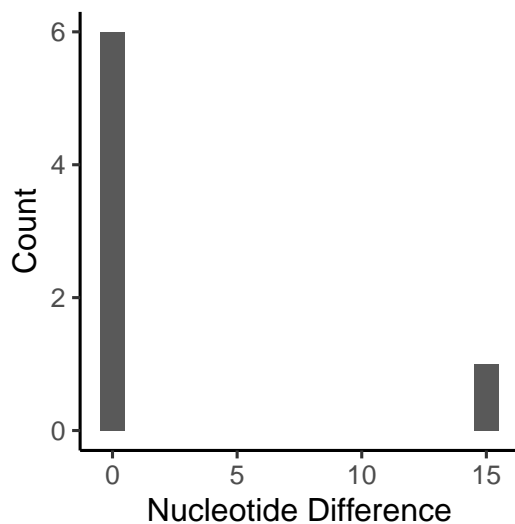
IGHV4-38-2*02

34 sequences assigned
No exact matches.



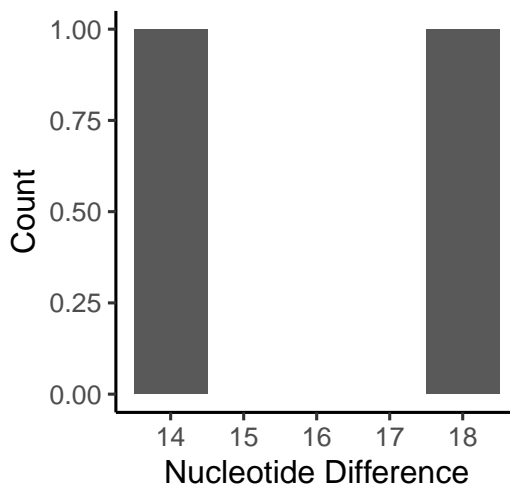
IGHV4-30-4*08

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



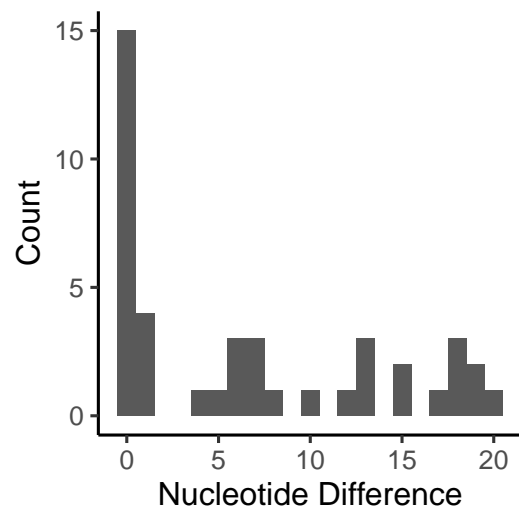
IGHV4-34*02

12 sequences assigned
No exact matches.



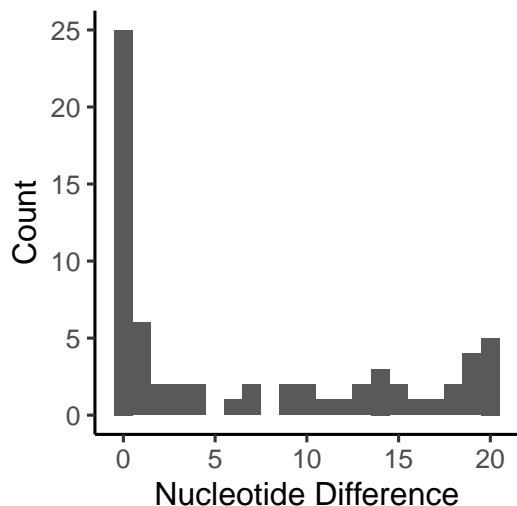
IGHV4-39*01

70 sequences assigned
15 (21.4%) exact matches, in which:
14 unique CDR3
5 unique J



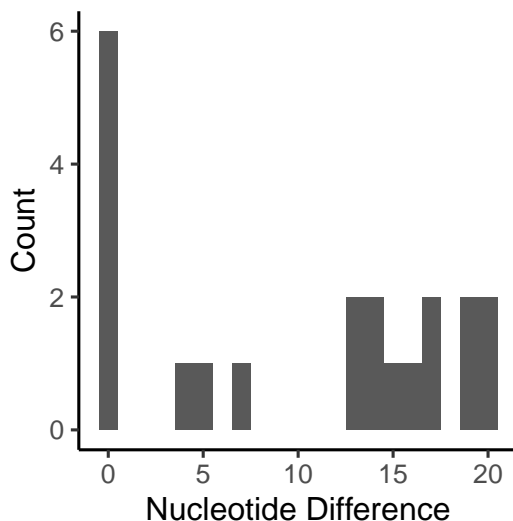
IGHV4-39*07

103 sequences assigned
25 (24.3%) exact matches, in which:
25 unique CDR3
5 unique J



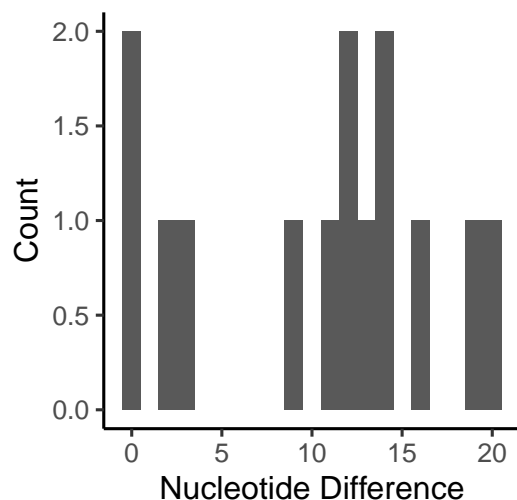
IGHV4-59*11

34 sequences assigned
6 (17.6%) exact matches, in which:
6 unique CDR3
4 unique J



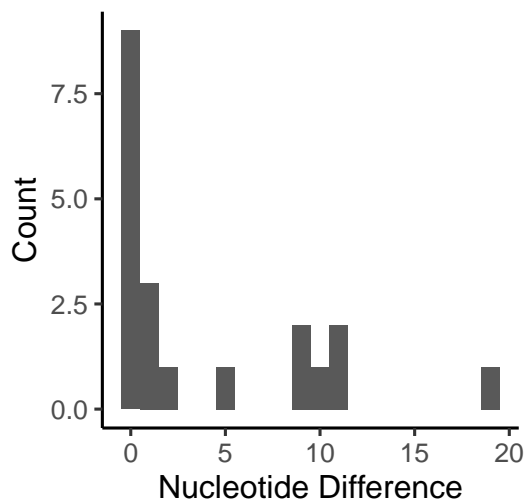
IGHV5-51*03

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



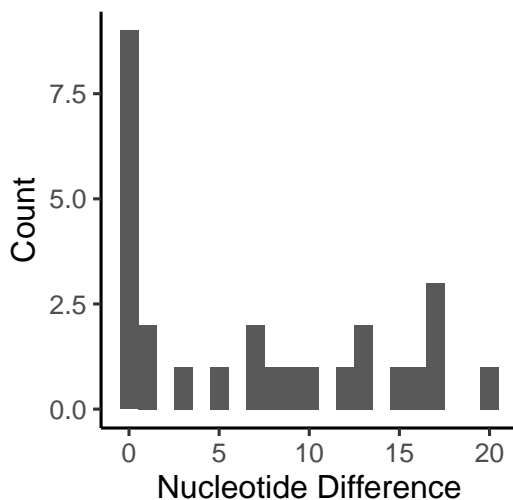
IGHV4-59*01

28 sequences assigned
9 (32.1%) exact matches, in which:
9 unique CDR3
4 unique J



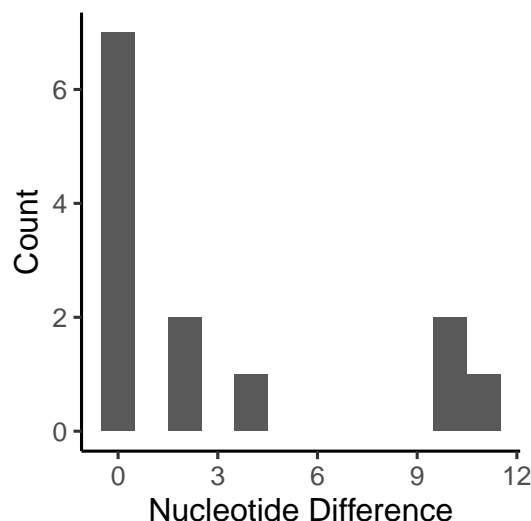
IGHV4-61*02

42 sequences assigned
9 (21.4%) exact matches, in which:
9 unique CDR3
3 unique J



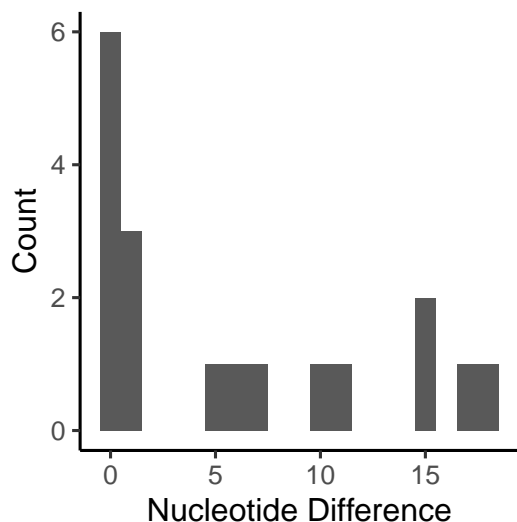
IGHV6-1*01

17 sequences assigned
7 (41.2%) exact matches, in which:
7 unique CDR3
3 unique J



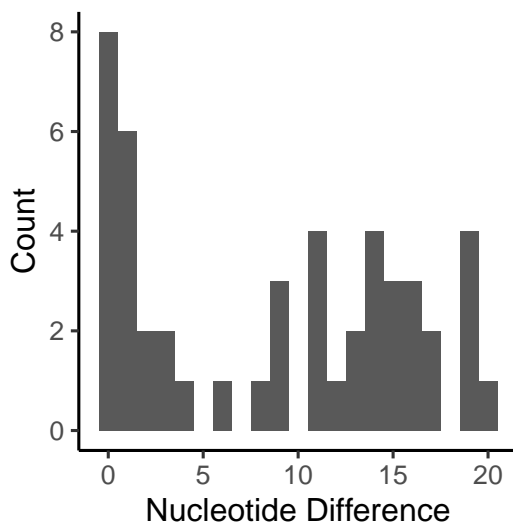
IGHV4-59*08

27 sequences assigned
6 (22.2%) exact matches, in which:
6 unique CDR3
3 unique J



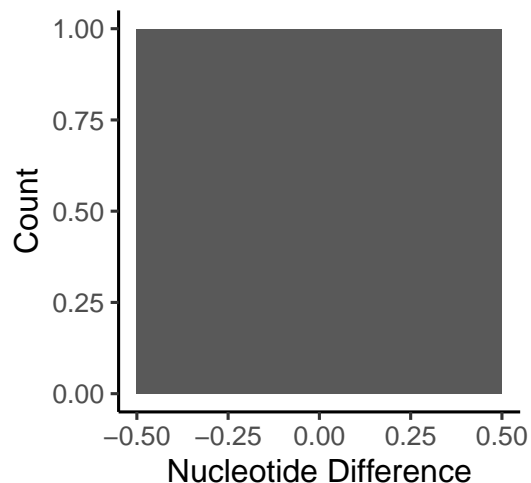
IGHV5-51*01

60 sequences assigned
8 (13.3%) exact matches, in which:
8 unique CDR3
2 unique J

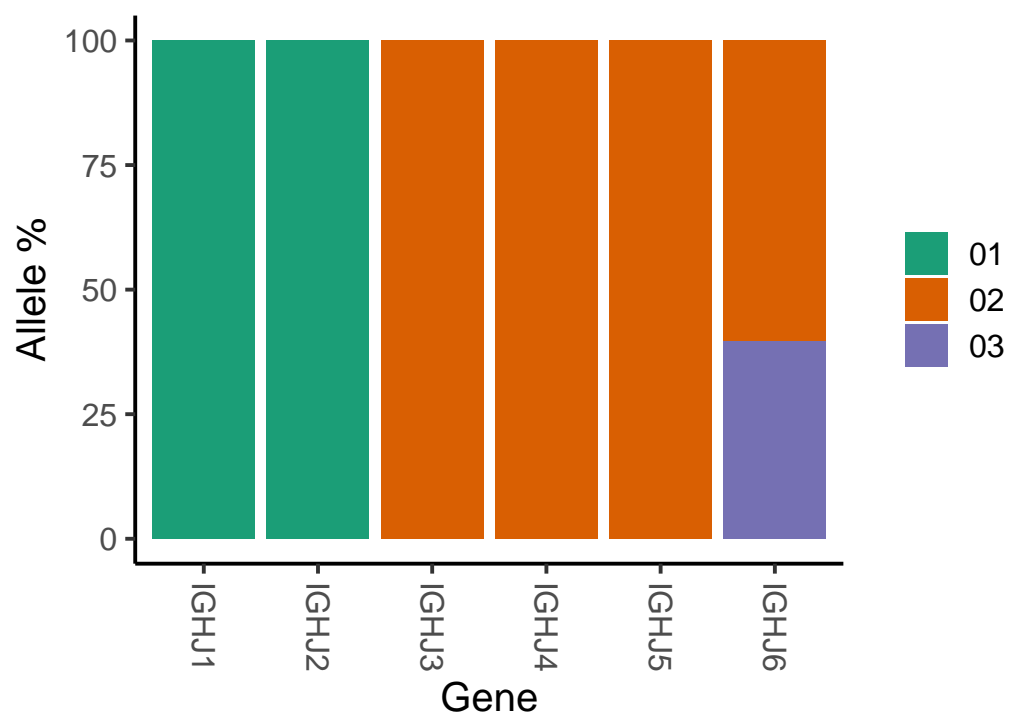


IGHV7-4-1*01

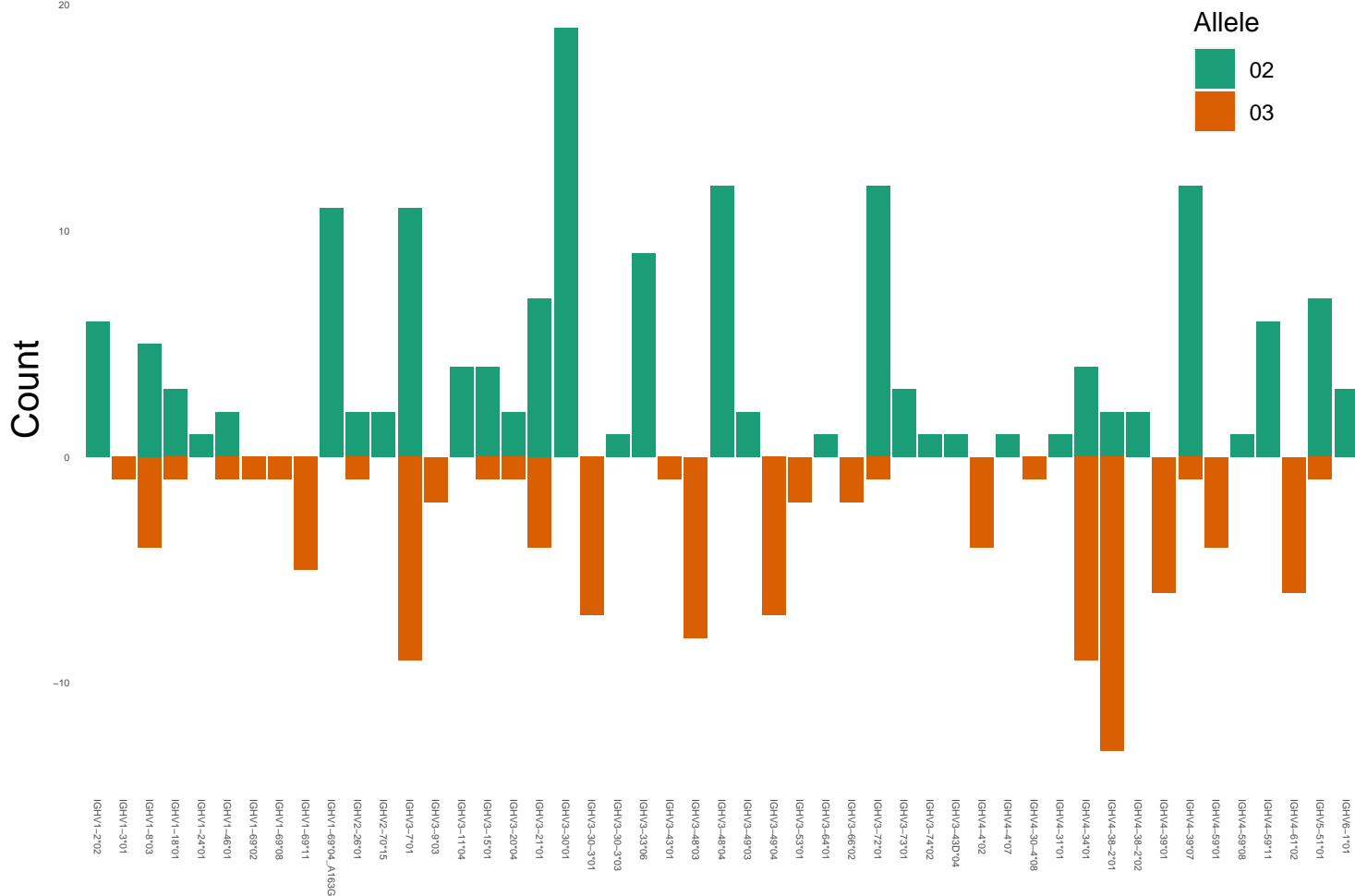
1 sequences assigned
1 (100%) exact matches, in which:
1 unique CDR3
1 unique J



Allele Usage



Sequence Count by IGHJ6 allele usage



Warning – no inferred sequences found.