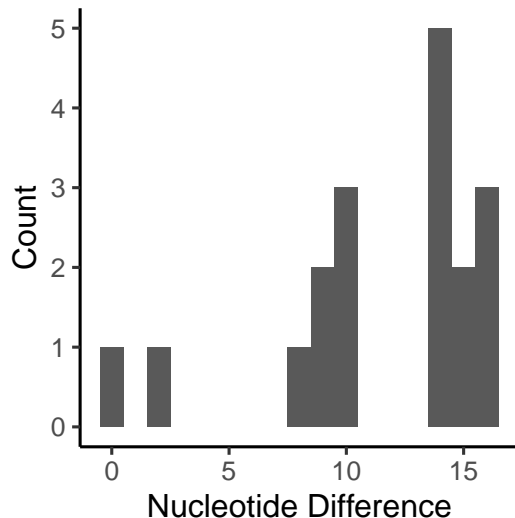


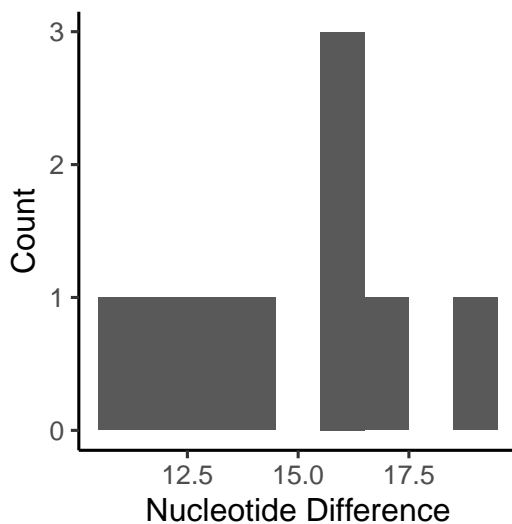
IGHV1-2*02

45 sequences assigned
1 (2.2%) exact matches, in which:
1 unique CDR3
1 unique J



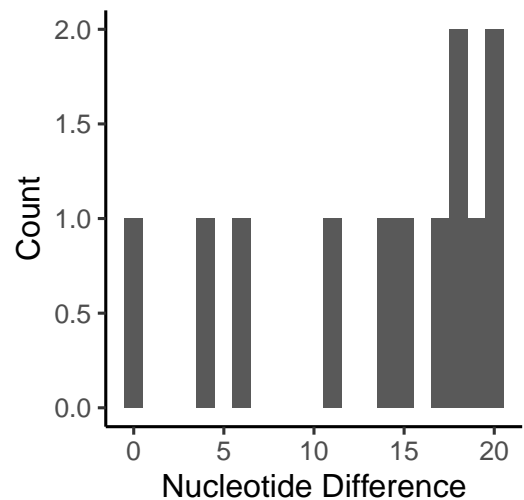
IGHV1-18*01

25 sequences assigned
No exact matches.



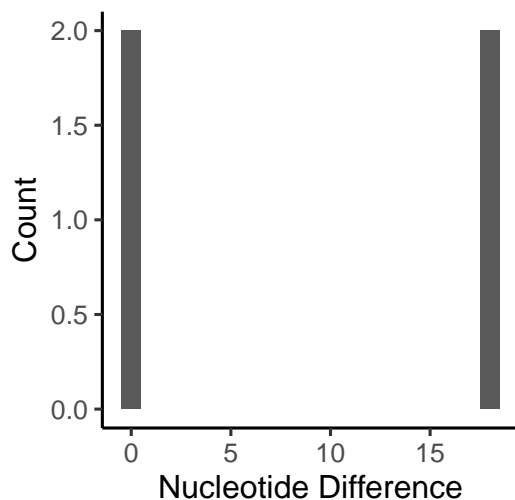
IGHV1-46*01

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



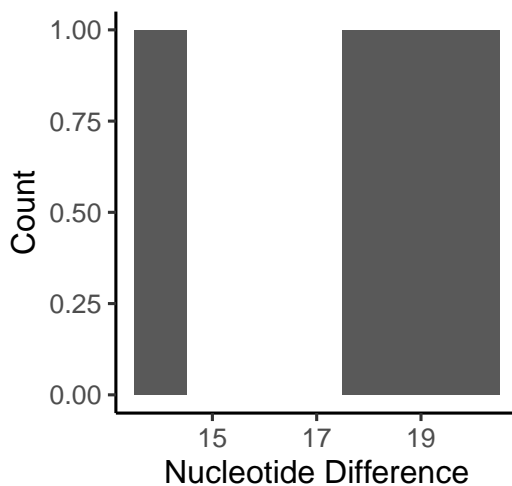
IGHV1-2*04

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



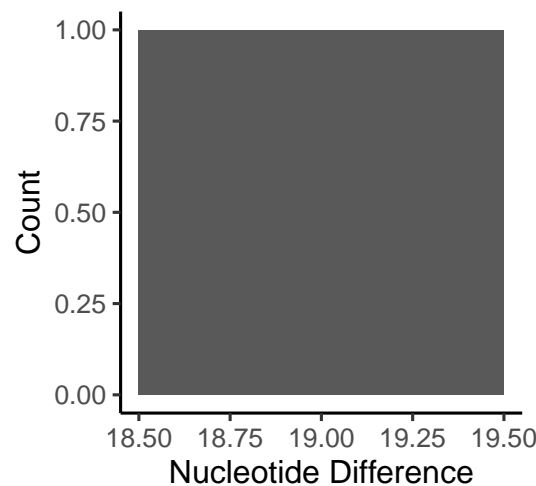
IGHV1-24*01

10 sequences assigned
No exact matches.



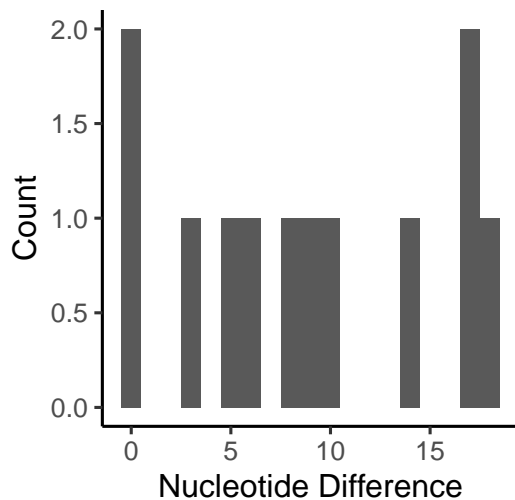
IGHV1-69-2*01

6 sequences assigned
No exact matches.



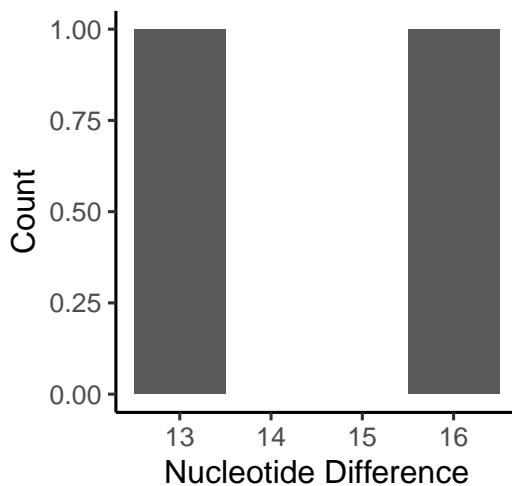
IGHV1-8*03

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



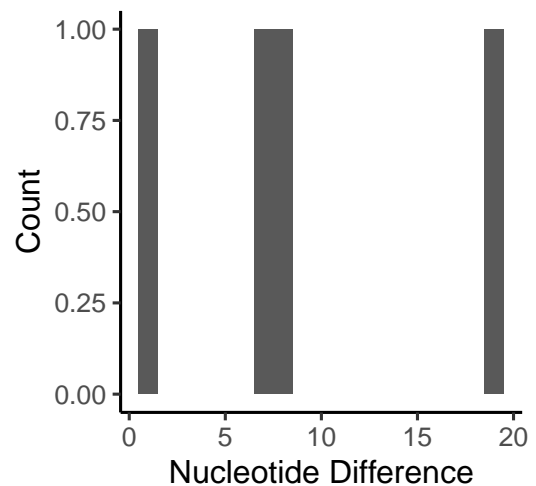
IGHV1-45*02

2 sequences assigned
No exact matches.



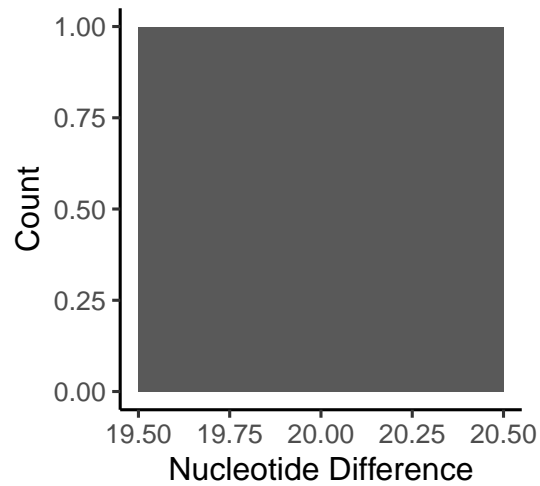
IGHV1-69*04

10 sequences assigned
No exact matches.



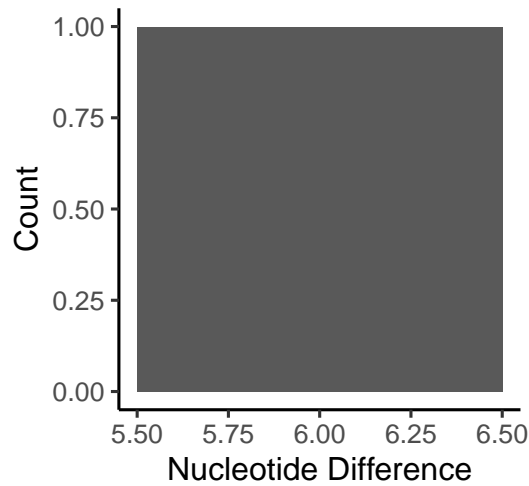
IGHV1-69*11

7 sequences assigned
No exact matches.



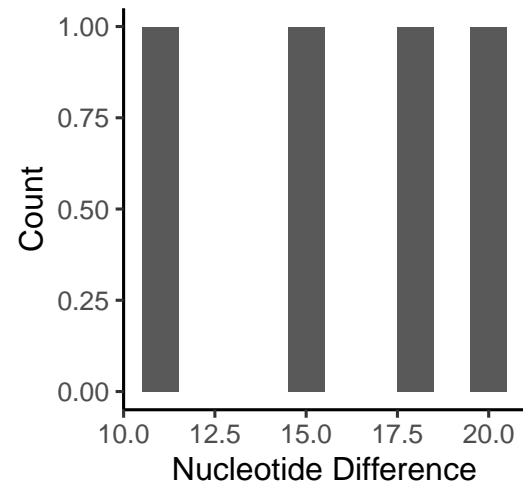
IGHV2-26*01

4 sequences assigned
No exact matches.



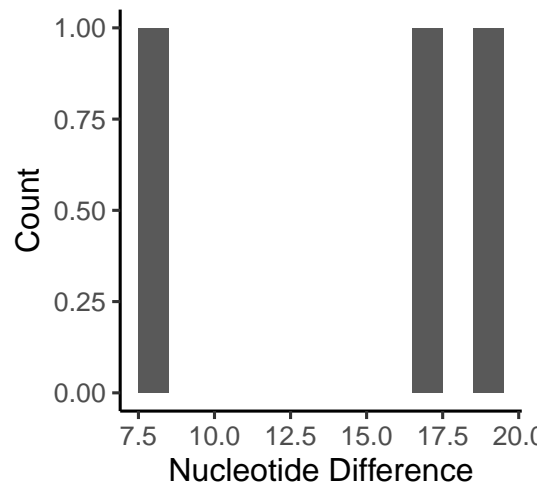
IGHV3-9*01

8 sequences assigned
No exact matches.



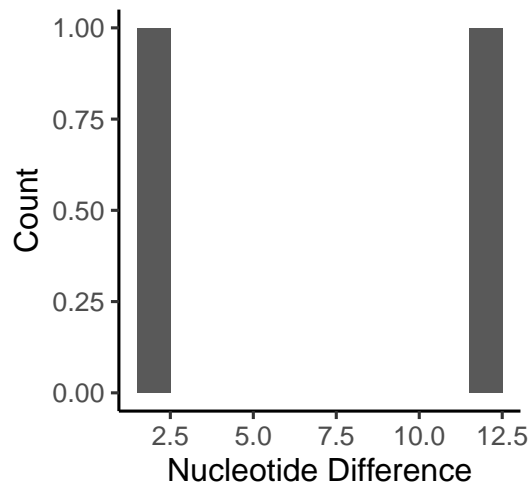
IGHV1-69*14

8 sequences assigned
No exact matches.



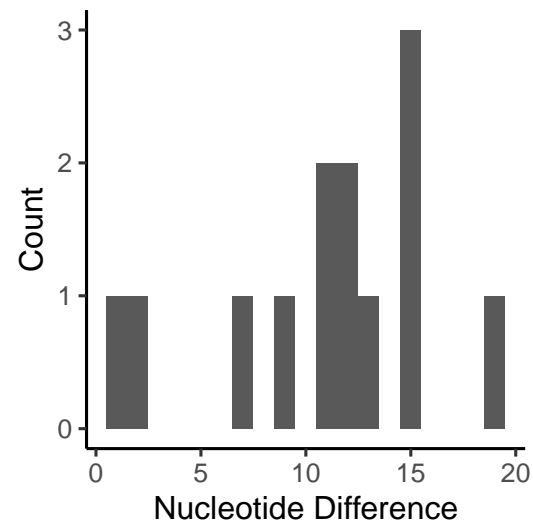
IGHV2-70*15

5 sequences assigned
No exact matches.



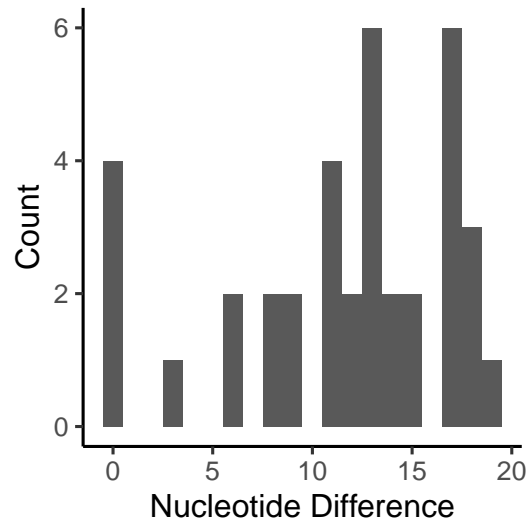
IGHV3-9*03

15 sequences assigned
No exact matches.



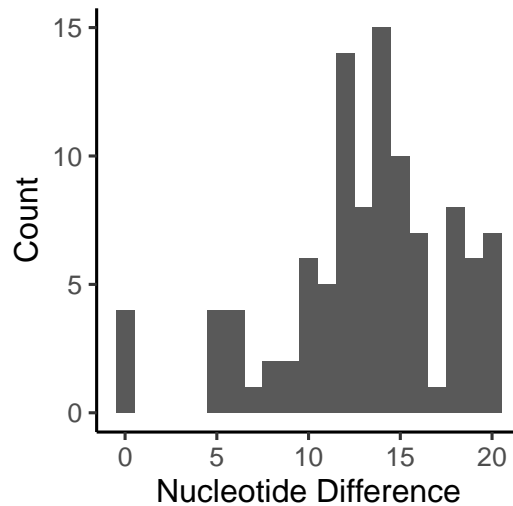
IGHV2-5*01

44 sequences assigned
4 (9.1%) exact matches, in which:
3 unique CDR3
2 unique J



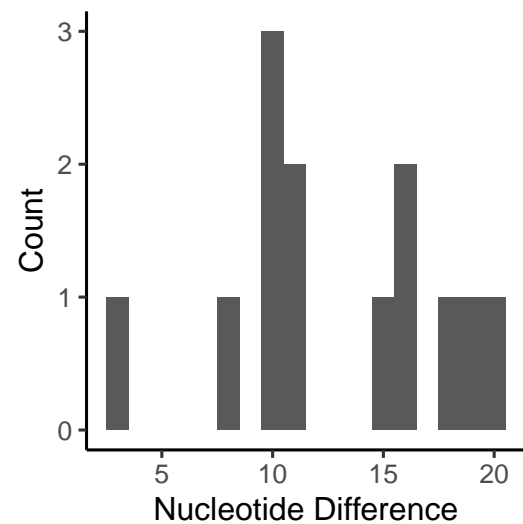
IGHV3-7*01

142 sequences assigned
4 (2.8%) exact matches, in which:
4 unique CDR3
3 unique J



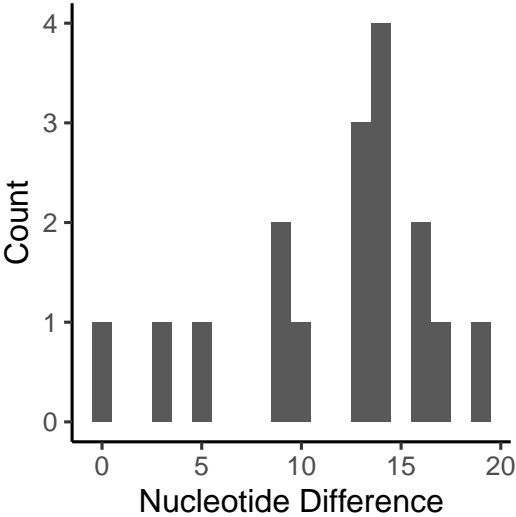
IGHV3-11*04

27 sequences assigned
No exact matches.



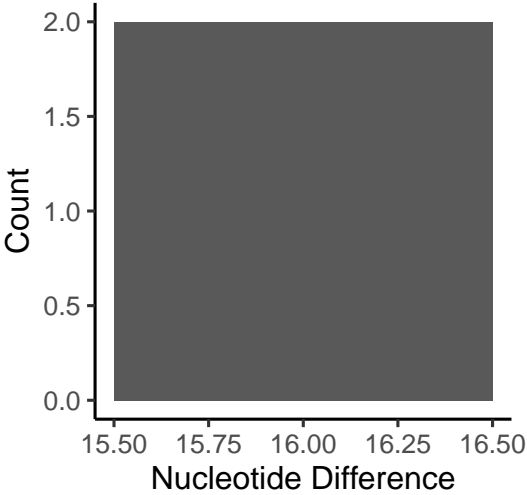
IGHV3-15*01

30 sequences assigned
1 (3.3%) exact matches, in which:
1 unique CDR3
1 unique J



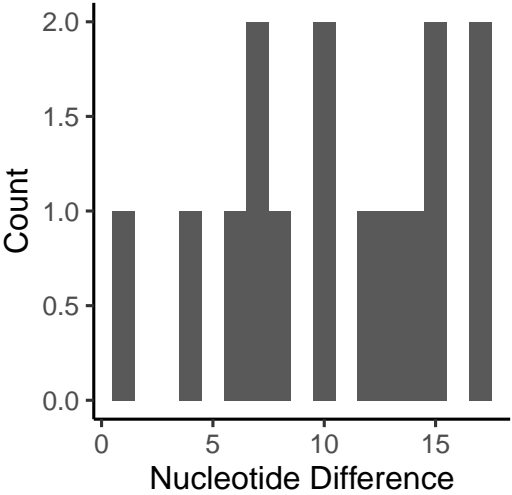
IGHV3-21*02

5 sequences assigned
No exact matches.



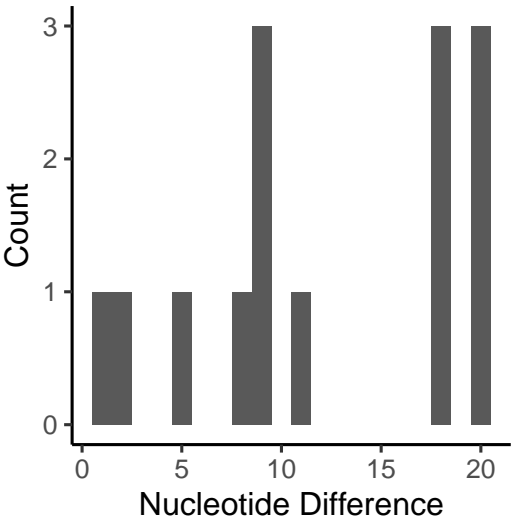
IGHV3-33*06

22 sequences assigned
No exact matches.



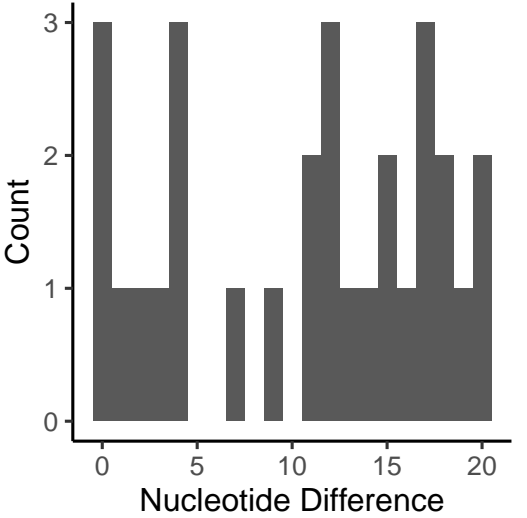
IGHV3-20*04

21 sequences assigned
No exact matches.



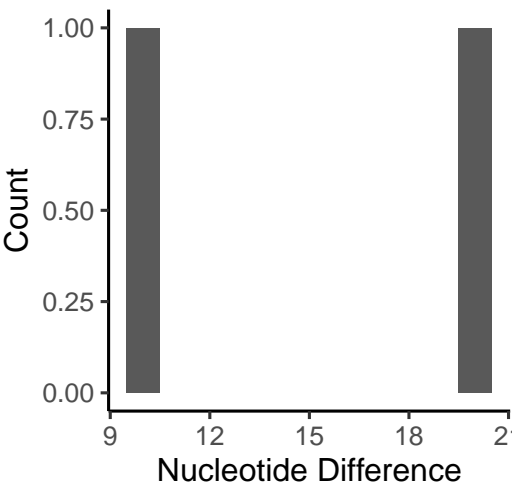
IGHV3-30*01

39 sequences assigned
3 (7.7%) exact matches, in which:
3 unique CDR3
2 unique J



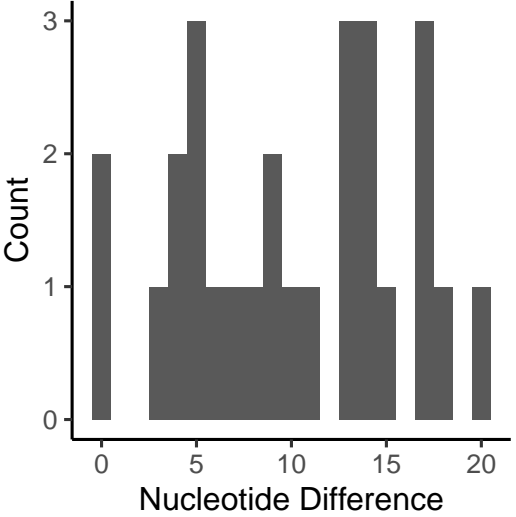
IGHV3-43*01

3 sequences assigned
No exact matches.



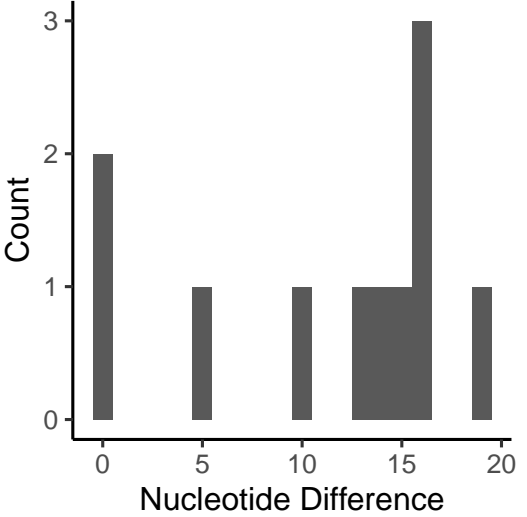
IGHV3-21*01

37 sequences assigned
2 (5.4%) exact matches, in which:
2 unique CDR3
2 unique J



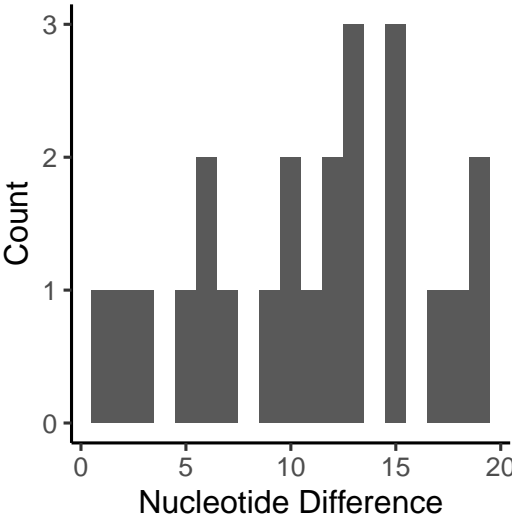
IGHV3-30-3*01

28 sequences assigned
2 (7.1%) exact matches, in which:
2 unique CDR3
1 unique J



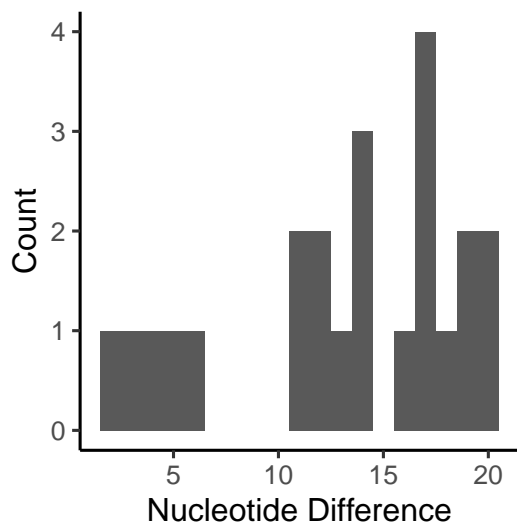
IGHV3-48*03

42 sequences assigned
No exact matches.



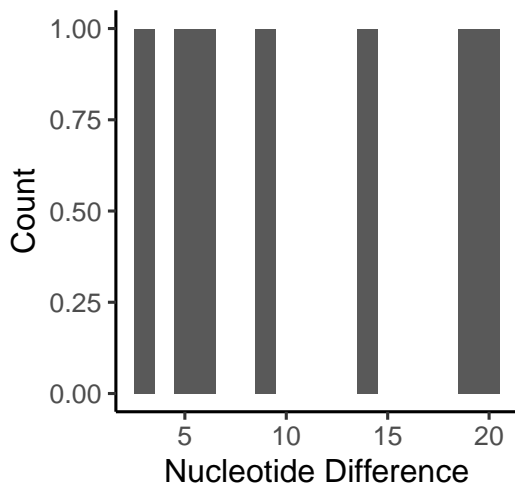
IGHV3-48*04

36 sequences assigned
No exact matches.



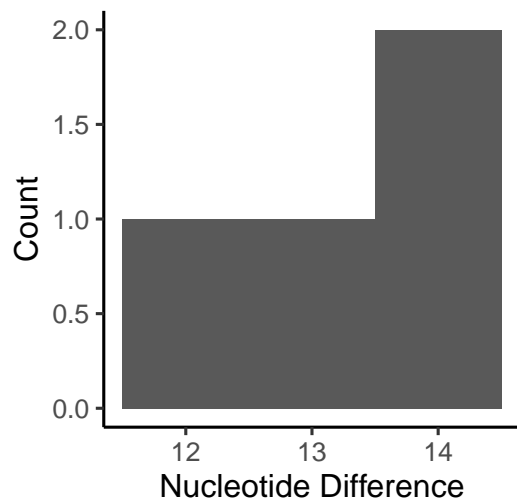
IGHV3-53*01

11 sequences assigned
No exact matches.



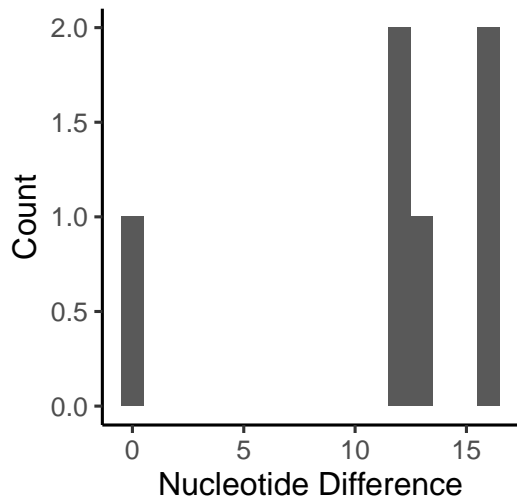
IGHV3-66*02

7 sequences assigned
No exact matches.



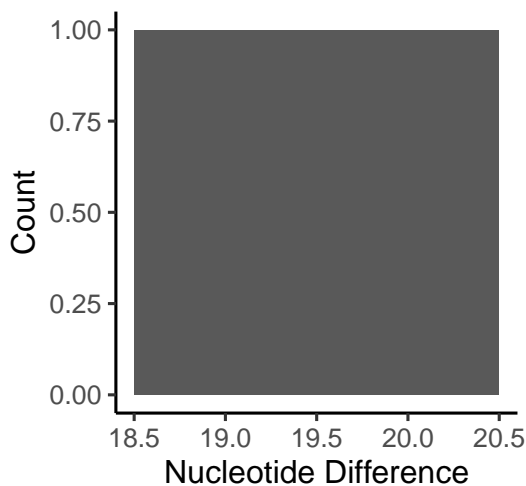
IGHV3-49*03

11 sequences assigned
1 (9.1%) exact matches, in which:
1 unique CDR3
1 unique J



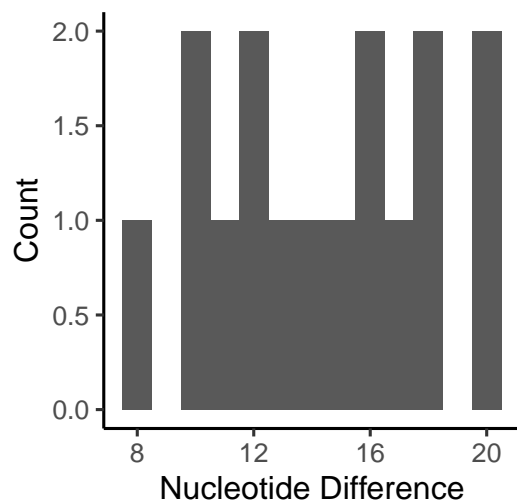
IGHV3-64*01

4 sequences assigned
No exact matches.



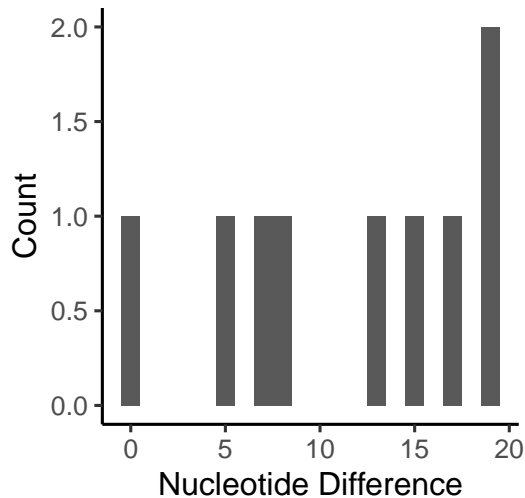
IGHV3-72*01

27 sequences assigned
No exact matches.



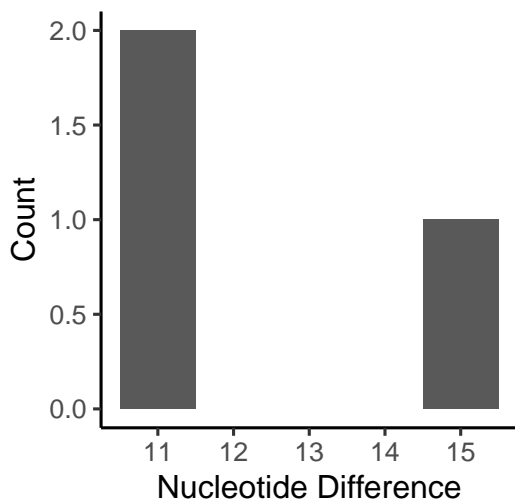
IGHV3-49*04

15 sequences assigned
1 (6.7%) exact matches, in which:
1 unique CDR3
1 unique J



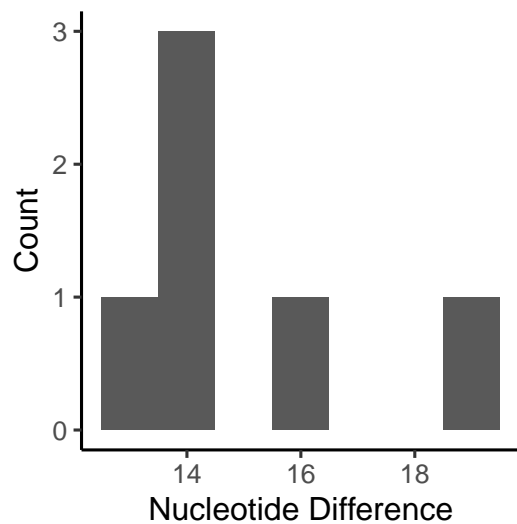
IGHV3-64*07

3 sequences assigned
No exact matches.



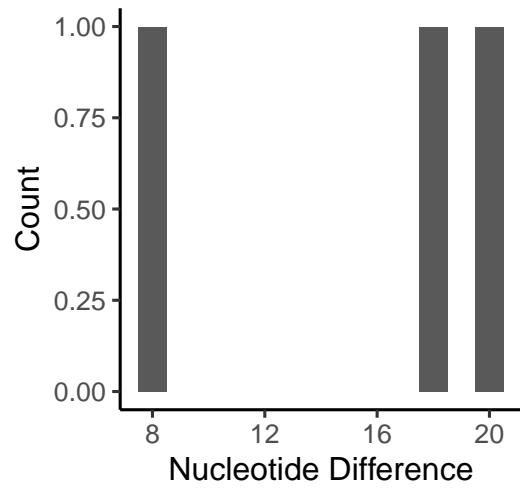
IGHV3-73*01

10 sequences assigned
No exact matches.



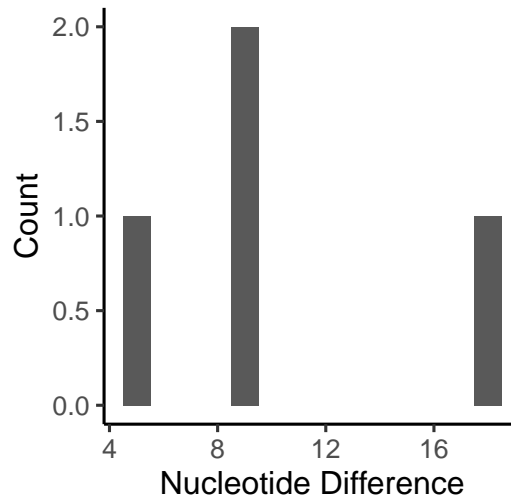
IGHV3-74*01

7 sequences assigned
No exact matches.



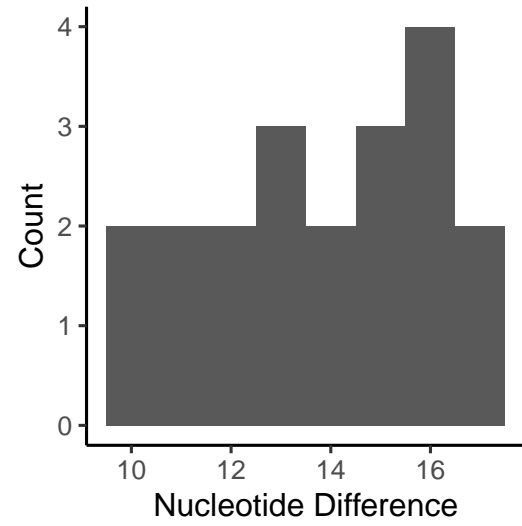
IGHV3-43D*04

5 sequences assigned
No exact matches.



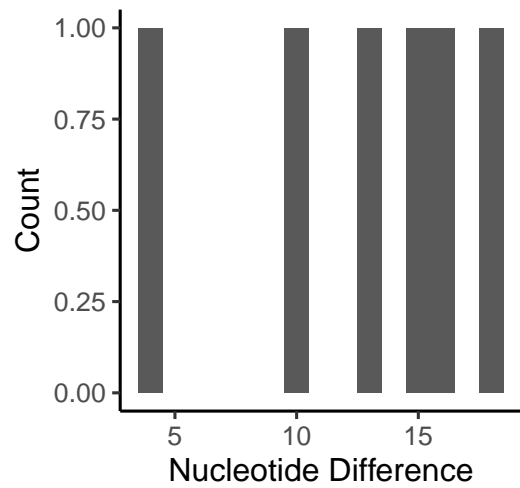
IGHV4-28*01

21 sequences assigned
No exact matches.



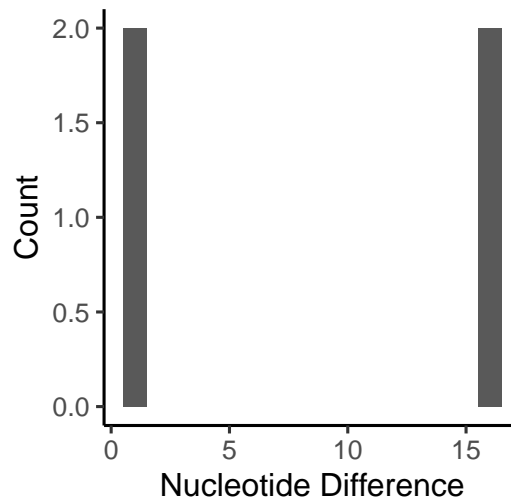
IGHV3-74*02

7 sequences assigned
No exact matches.



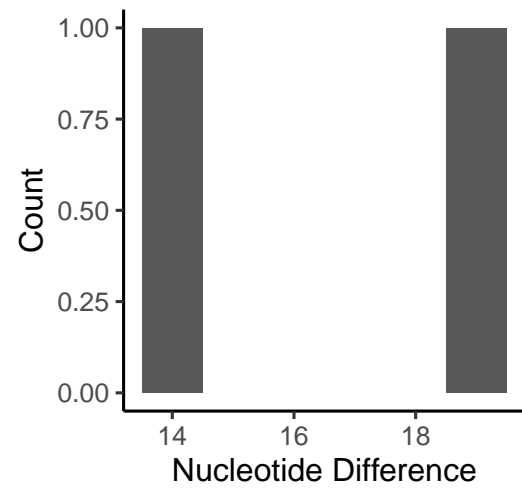
IGHV4-4*02

12 sequences assigned
No exact matches.



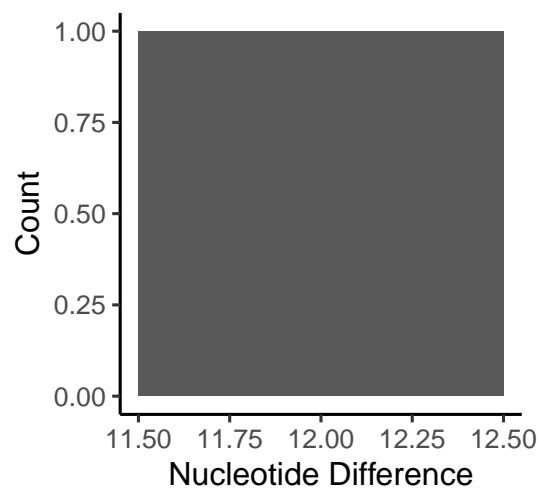
IGHV4-30-4*01

4 sequences assigned
No exact matches.



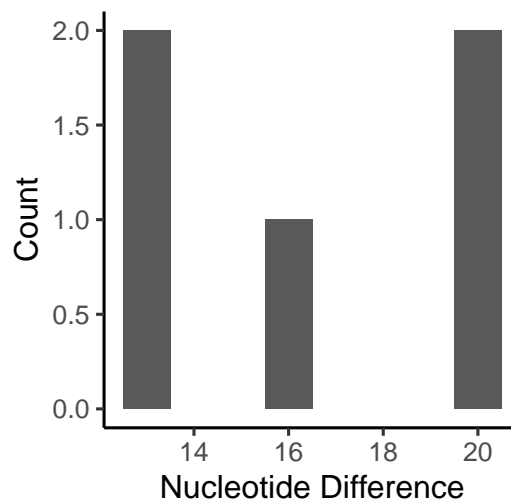
IGHV3-74*03

2 sequences assigned
No exact matches.



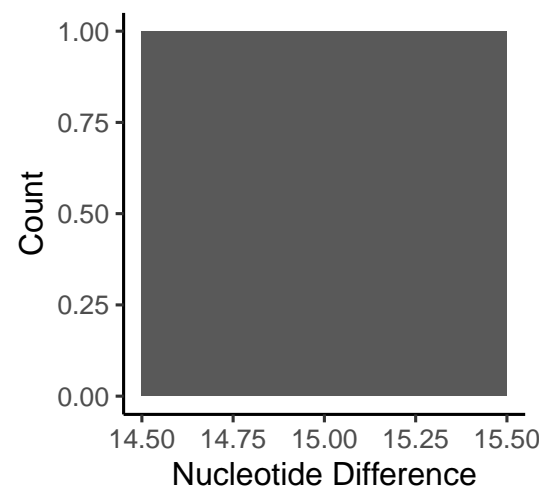
IGHV4-4*07

14 sequences assigned
No exact matches.



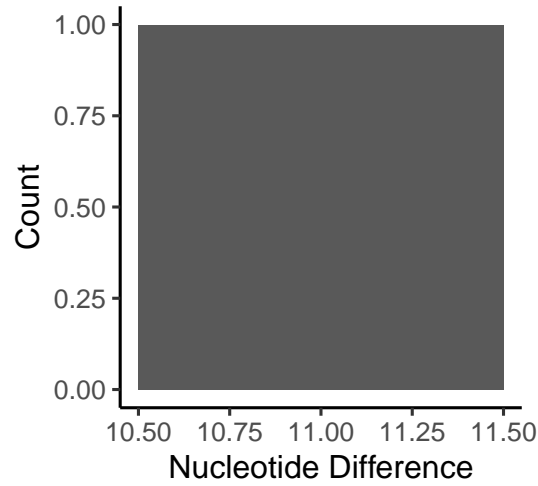
IGHV4-30-4*08

2 sequences assigned
No exact matches.



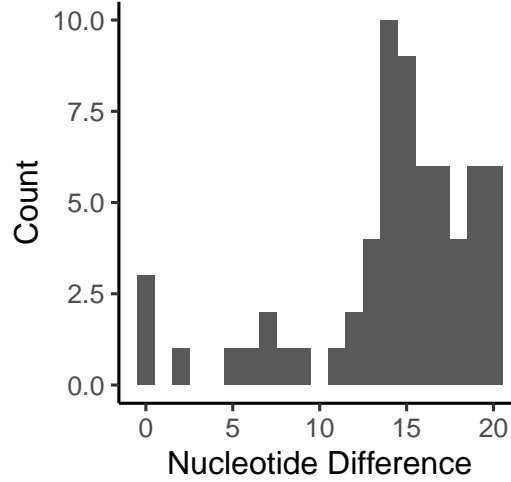
IGHV4-31*01

2 sequences assigned
No exact matches.



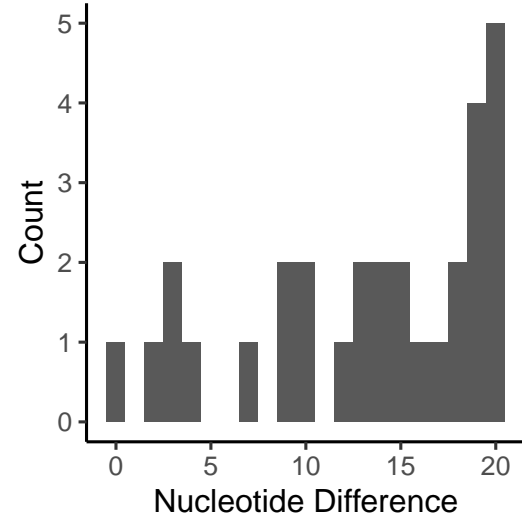
IGHV4-38-2*01

105 sequences assigned
3 (2.9%) exact matches, in which:
3 unique CDR3
2 unique J



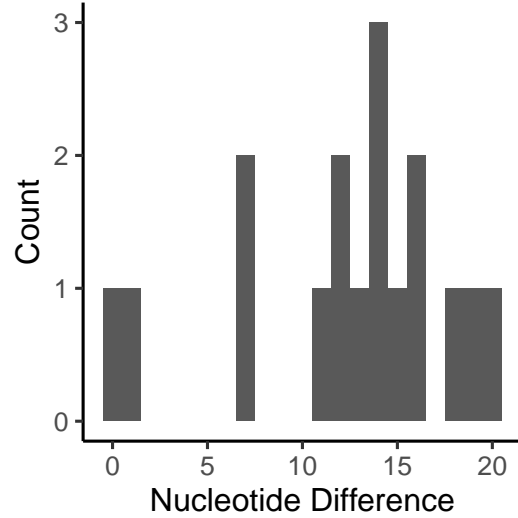
IGHV4-39*07

64 sequences assigned
1 (1.6%) exact matches, in which:
1 unique CDR3
1 unique J



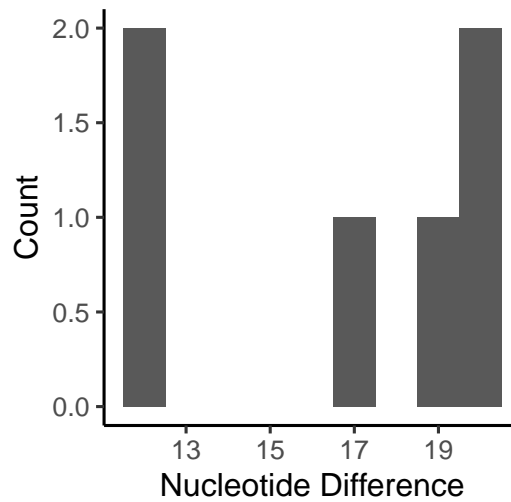
IGHV4-34*01

34 sequences assigned
1 (2.9%) exact matches, in which:
1 unique CDR3
1 unique J



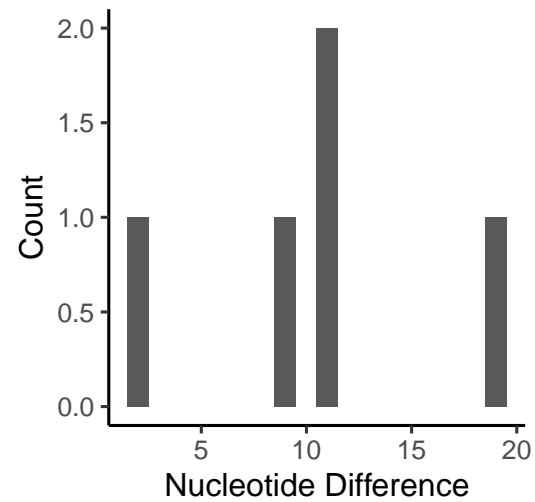
IGHV4-38-2*02

28 sequences assigned
No exact matches.



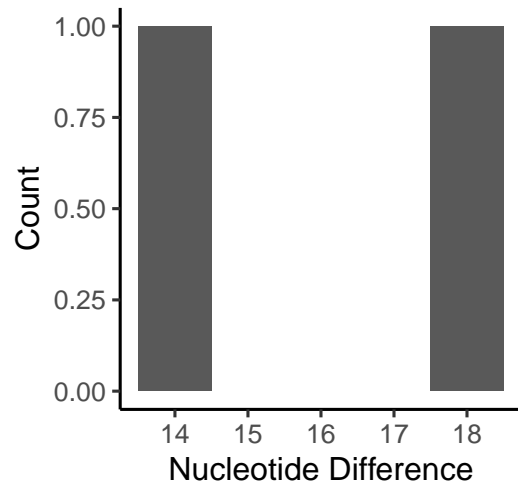
IGHV4-59*01

13 sequences assigned
No exact matches.



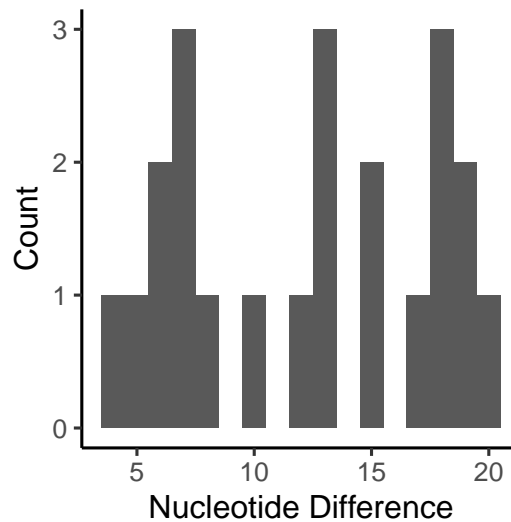
IGHV4-34*02

11 sequences assigned
No exact matches.



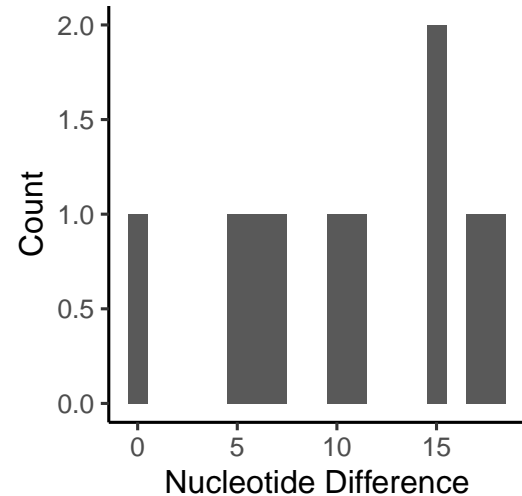
IGHV4-39*01

50 sequences assigned
No exact matches.



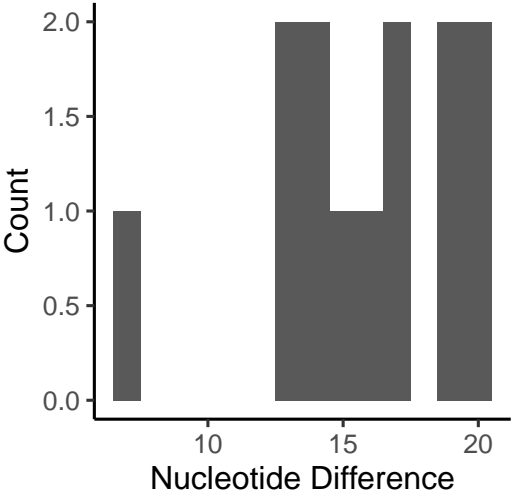
IGHV4-59*08

19 sequences assigned
1 (5.3%) exact matches, in which:
1 unique CDR3
1 unique J



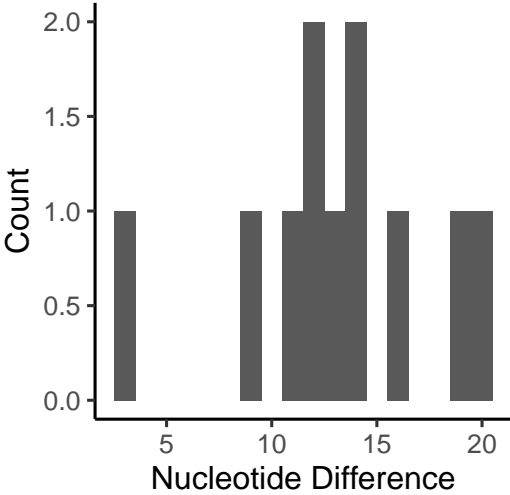
IGHV4-59*11

26 sequences assigned
No exact matches.



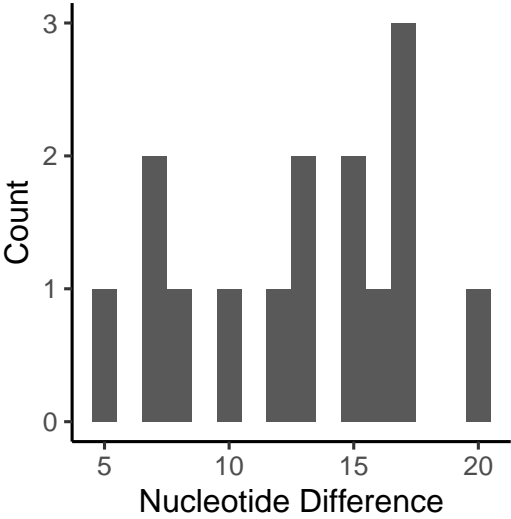
IGHV5-51*03

14 sequences assigned
No exact matches.



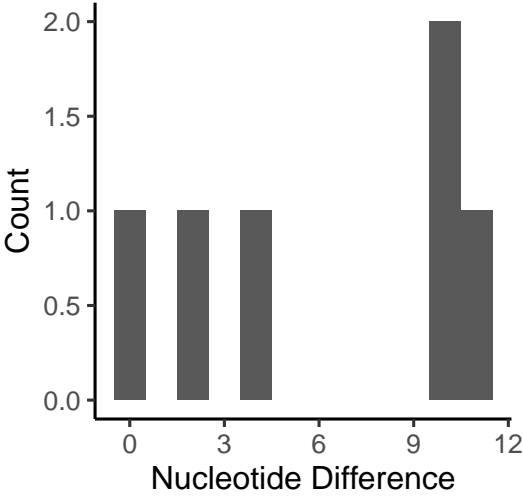
IGHV4-61*02

30 sequences assigned
No exact matches.



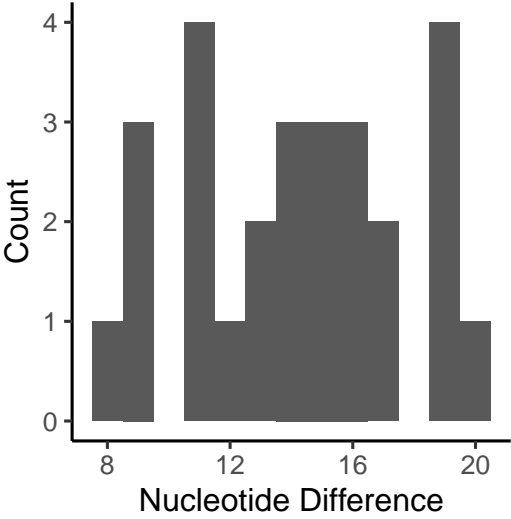
IGHV6-1*01

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



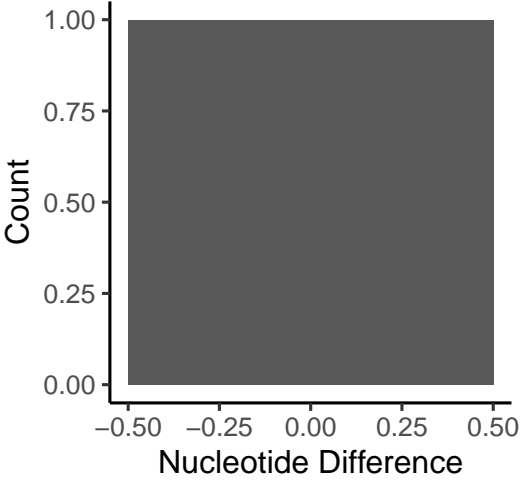
IGHV5-51*01

36 sequences assigned
No exact matches.

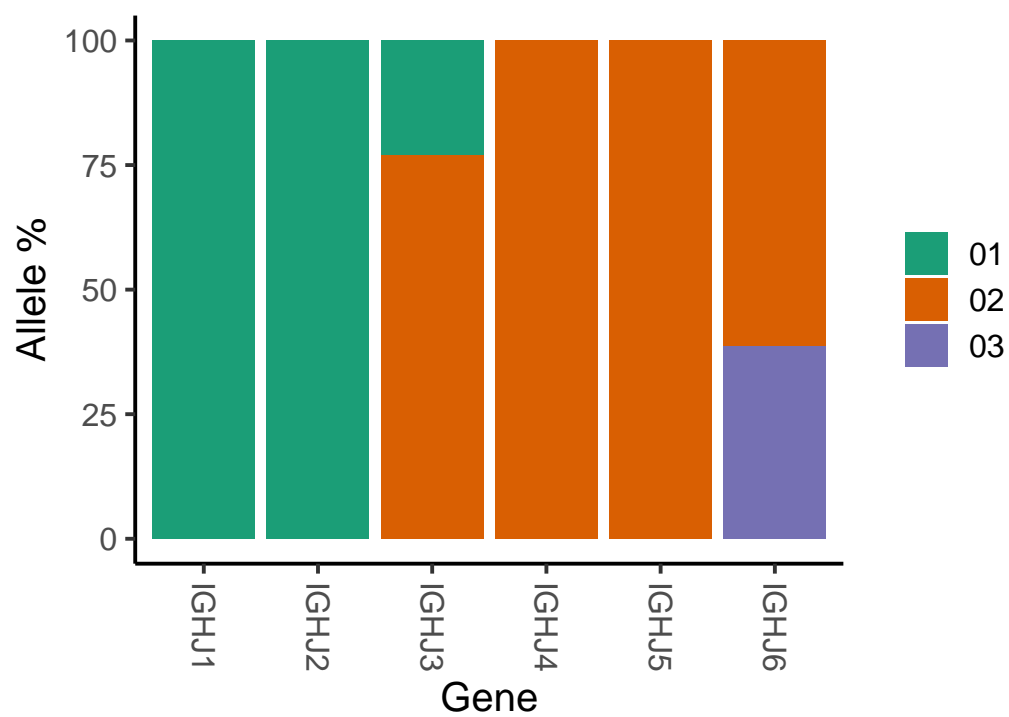


IGHV7-4-1*01

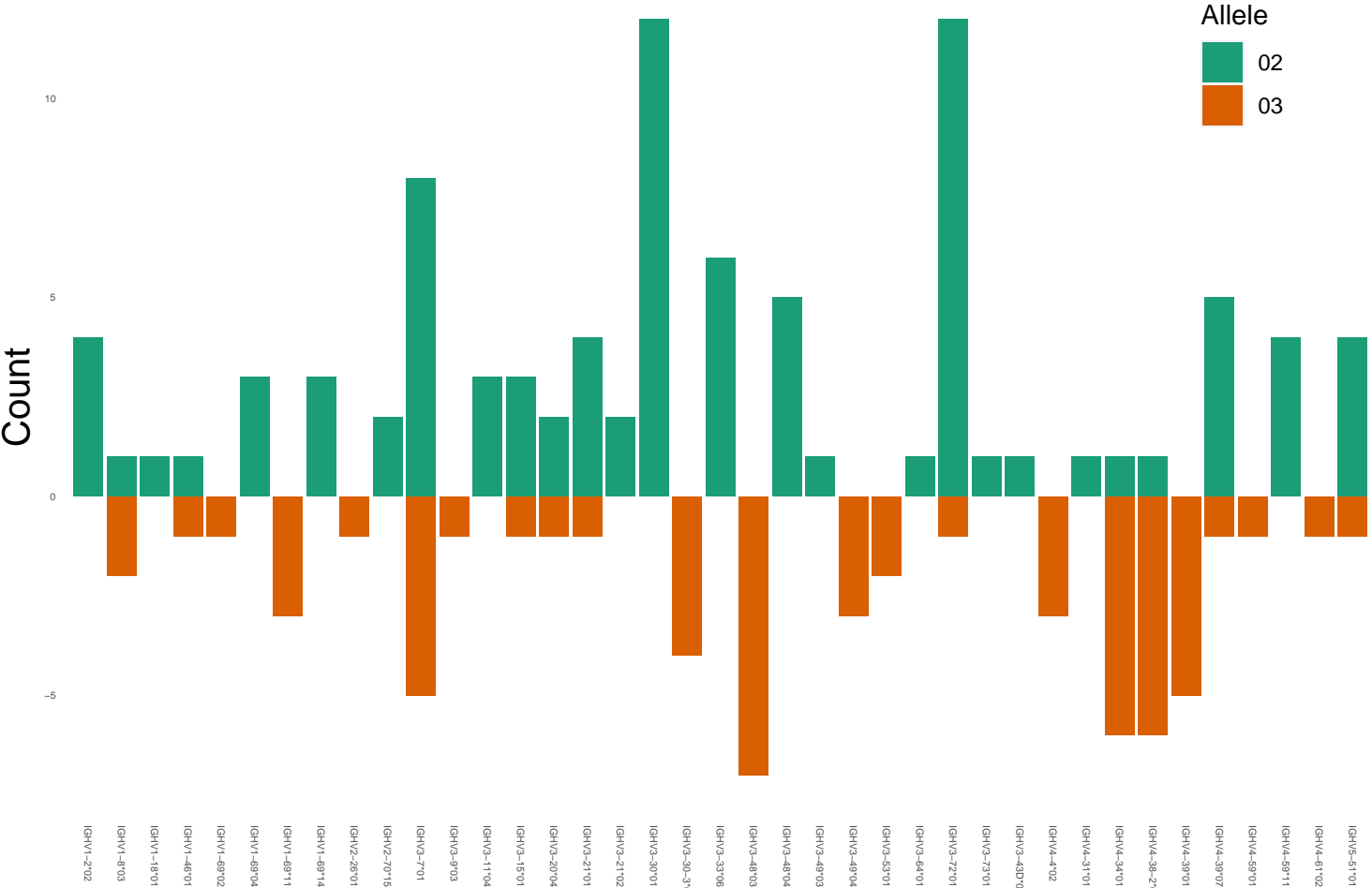
1 sequences assigned
1 (100%) exact matches, in which:
1 unique CDR3
1 unique J



Allele Usage



Sequence Count by IGHJ6 allele usage



Warning – no inferred sequences found.