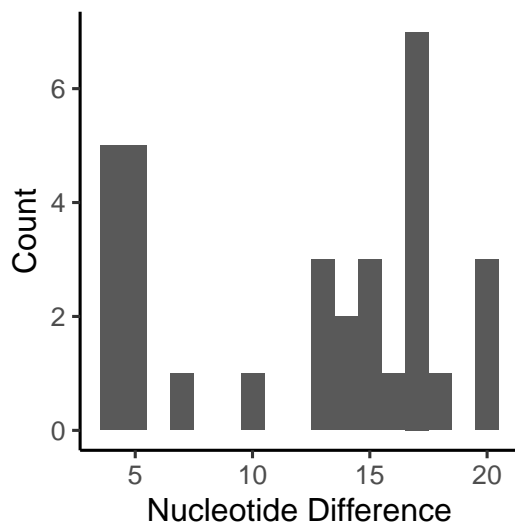


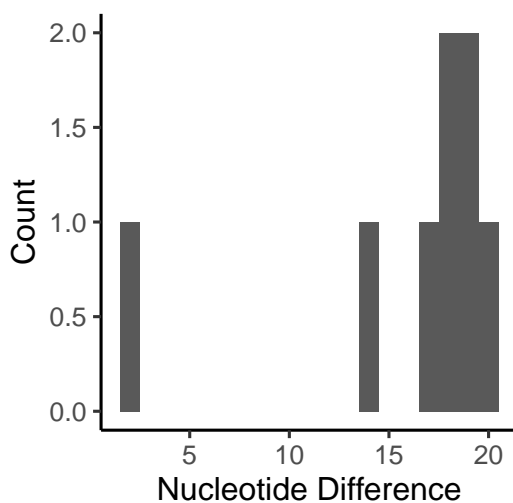
IGHV1-2*02

56 sequences assigned
No exact matches.



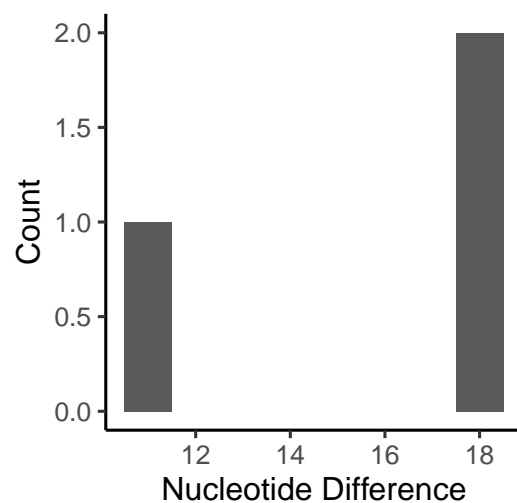
IGHV1-3*01

13 sequences assigned
No exact matches.



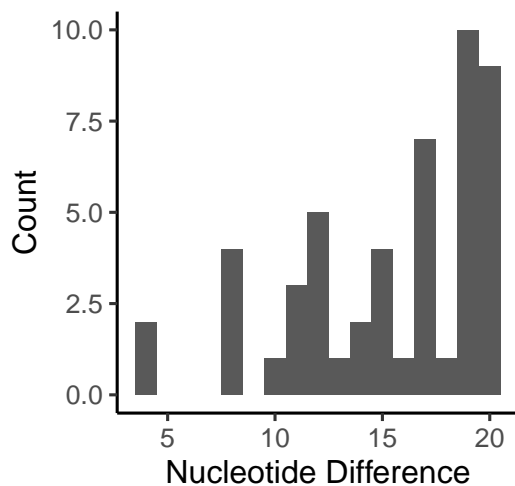
IGHV1-8*02

3 sequences assigned
No exact matches.



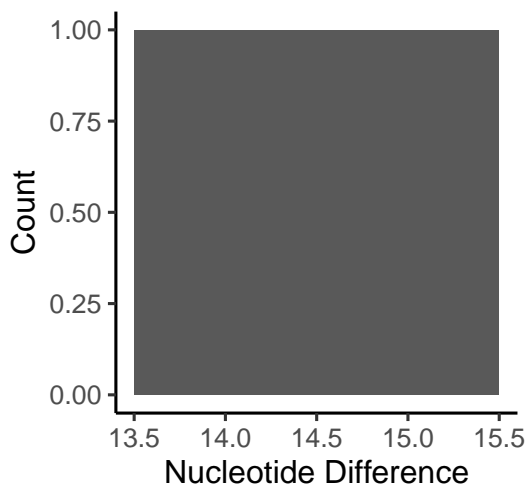
IGHV1-2*04

61 sequences assigned
No exact matches.



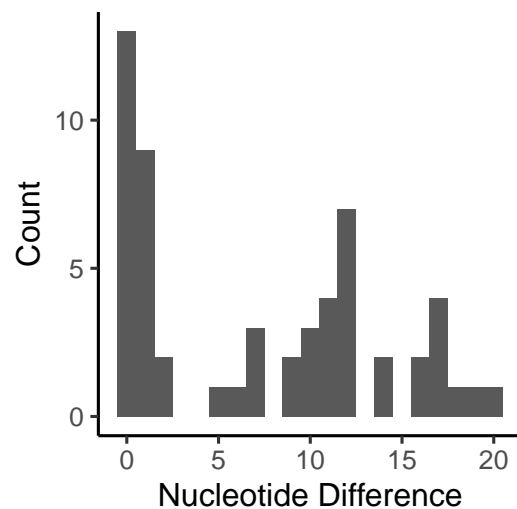
IGHV1-3*04

4 sequences assigned
No exact matches.



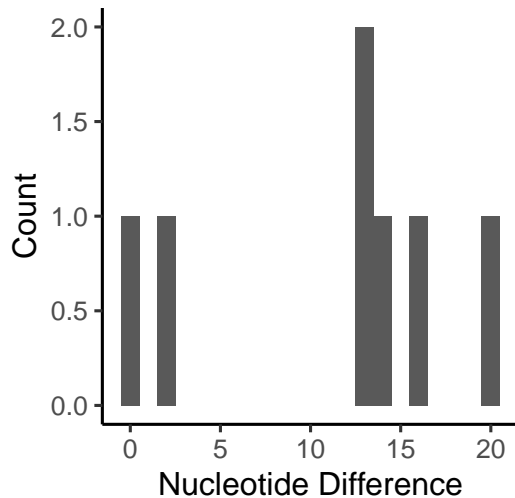
IGHV1-18*01

78 sequences assigned
13 (16.7%) exact matches, in which:
7 unique CDR3
3 unique J



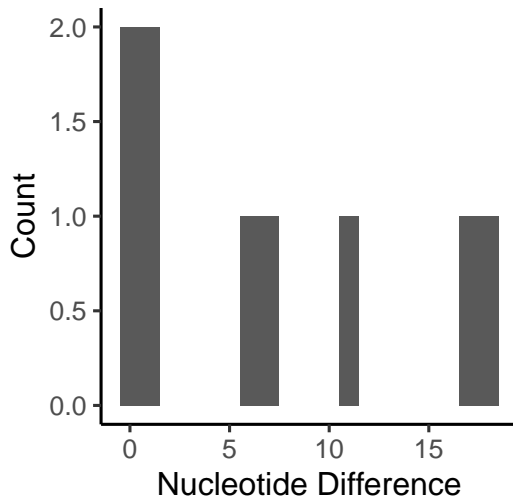
IGHV1-2*06

17 sequences assigned
1 (5.9%) exact matches, in which:
1 unique CDR3
1 unique J



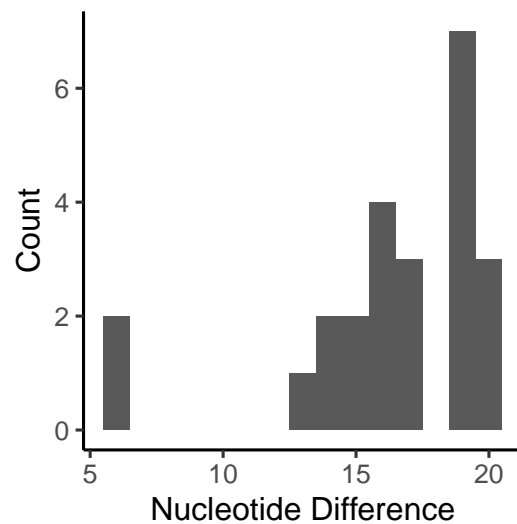
IGHV1-8*01

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



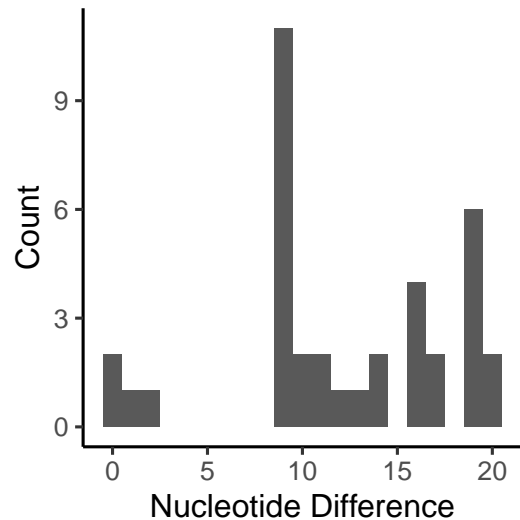
IGHV1-18*04

33 sequences assigned
No exact matches.



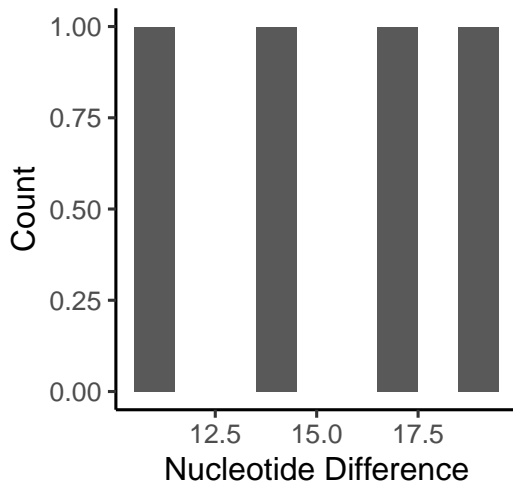
IGHV1–24*01

41 sequences assigned
2 (4.9%) exact matches, in which:
2 unique CDR3
2 unique J



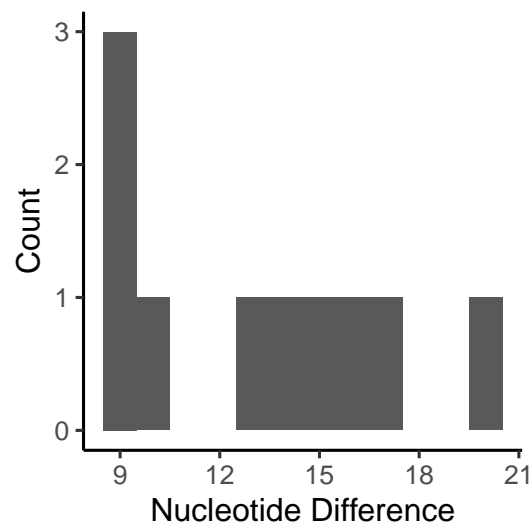
IGHV1–46*03

8 sequences assigned
No exact matches.



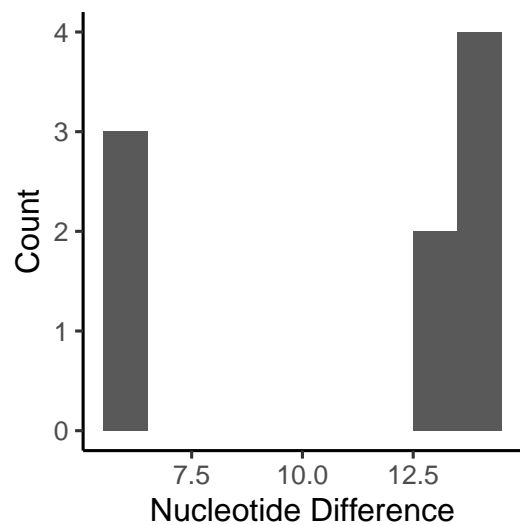
IGHV2–5*02

16 sequences assigned
No exact matches.



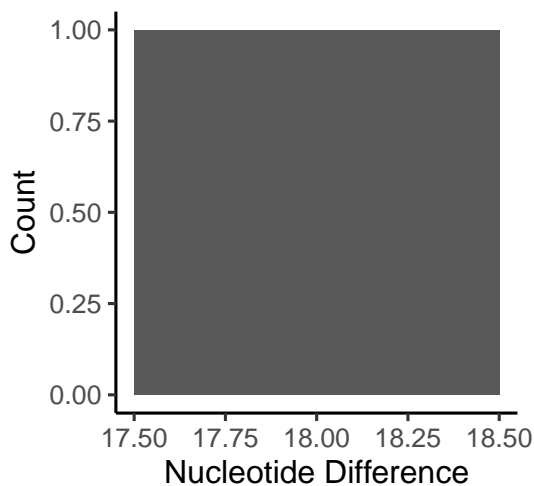
IGHV1–45*02

10 sequences assigned
No exact matches.



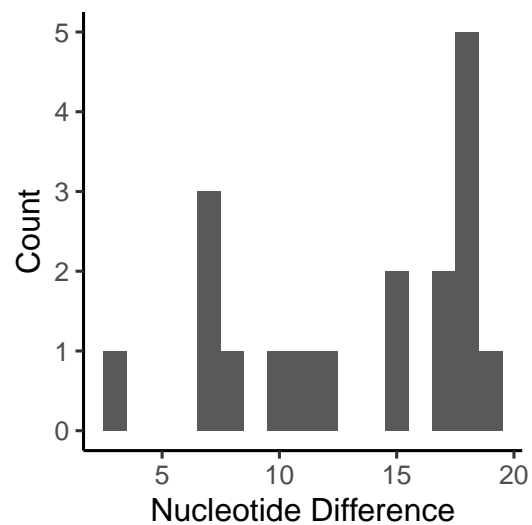
IGHV1–58*01

1 sequences assigned
No exact matches.



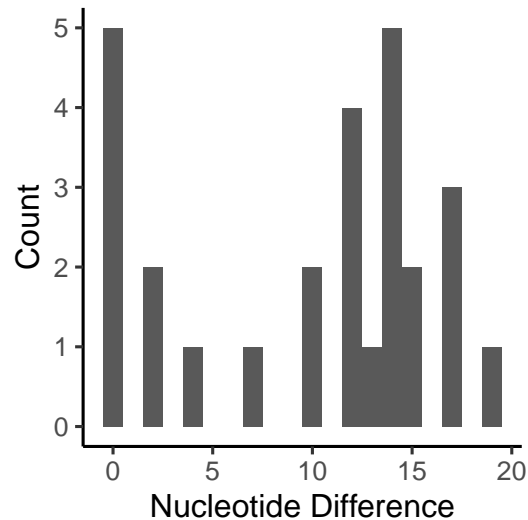
IGHV2–26*01

20 sequences assigned
No exact matches.



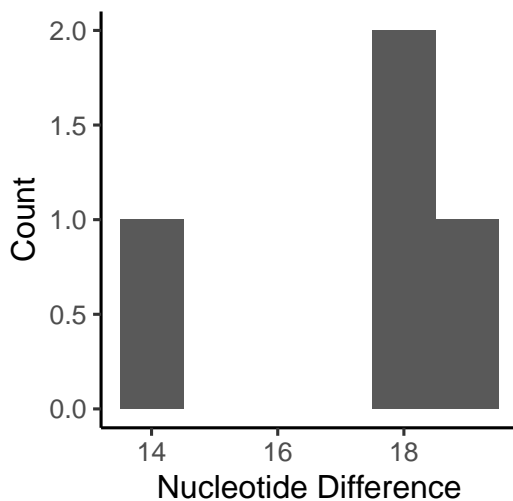
IGHV1–46*01

51 sequences assigned
5 (9.8%) exact matches, in which:
1 unique CDR3
1 unique J



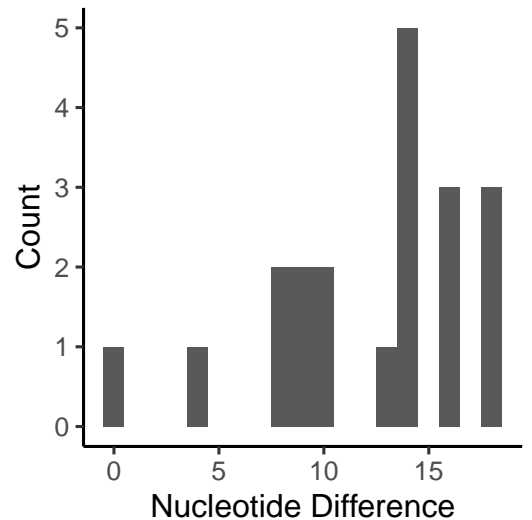
IGHV2–5*01

5 sequences assigned
No exact matches.



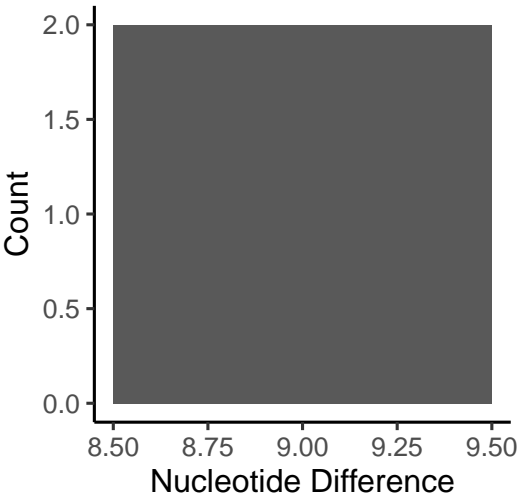
IGHV2–70*01

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



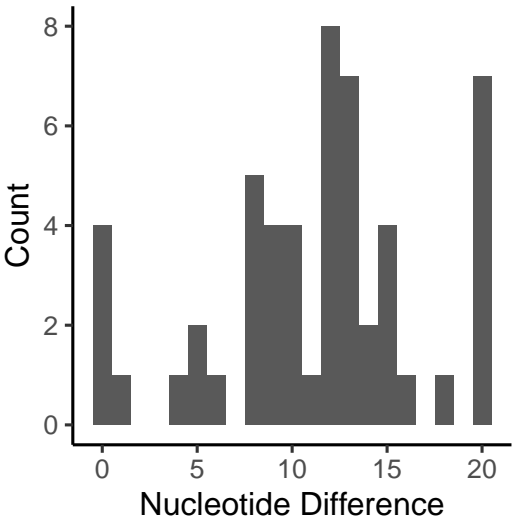
IGHV2-70*13

6 sequences assigned
No exact matches.



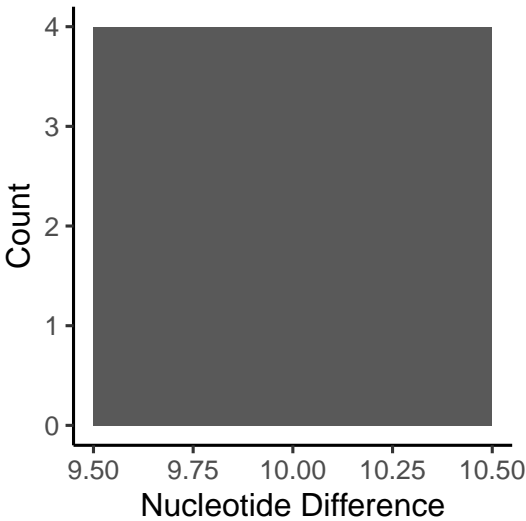
IGHV3-9*01

64 sequences assigned
4 (6.2%) exact matches, in which:
2 unique CDR3
2 unique J



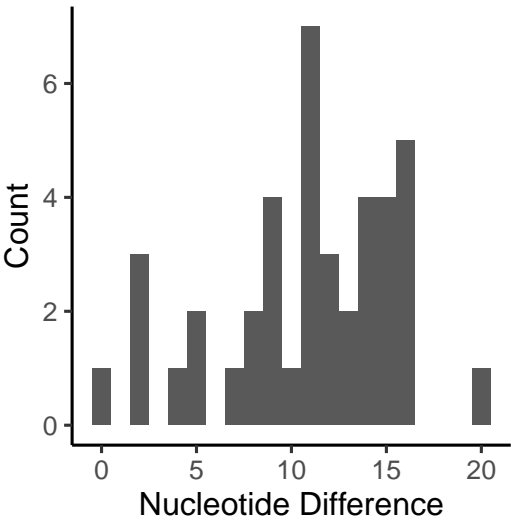
IGHV3-13*05

4 sequences assigned
No exact matches.



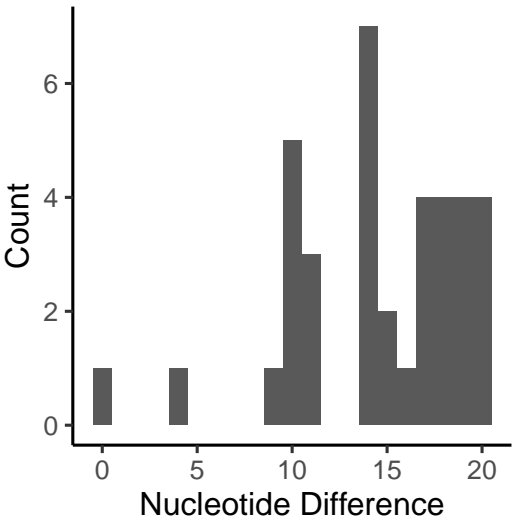
IGHV3-7*01

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



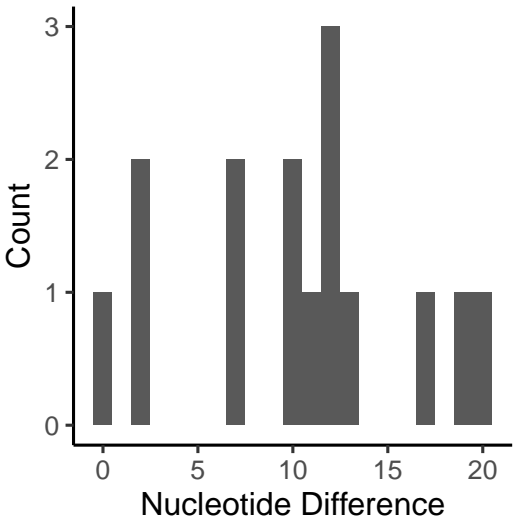
IGHV3-11*01

48 sequences assigned
1 (2.1%) exact matches, in which:
1 unique CDR3
1 unique J



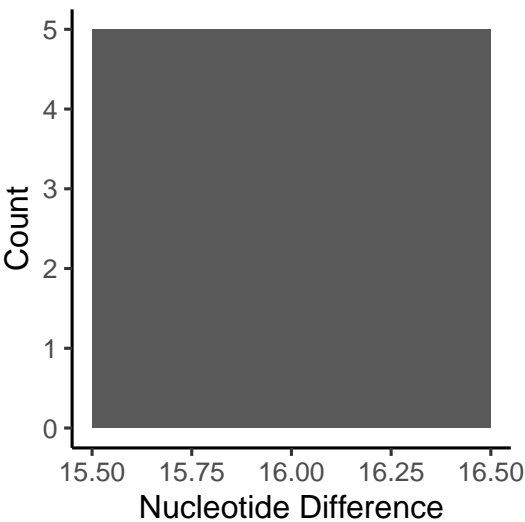
IGHV3-15*01

29 sequences assigned
1 (3.4%) exact matches, in which:
1 unique CDR3
1 unique J



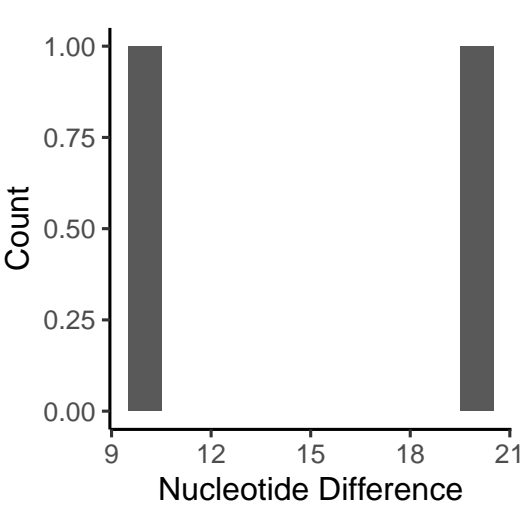
IGHV3-7*03

8 sequences assigned
No exact matches.



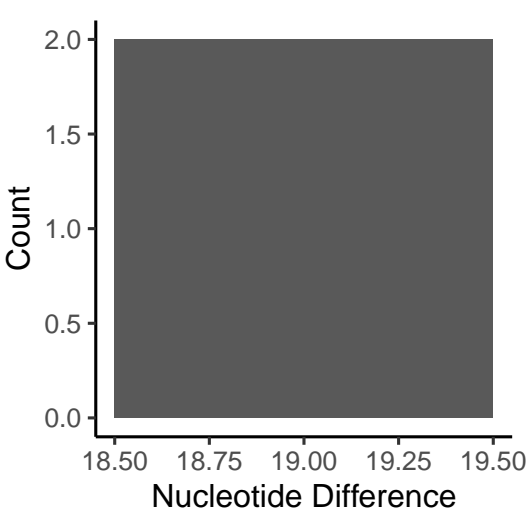
IGHV3-13*01

2 sequences assigned
No exact matches.



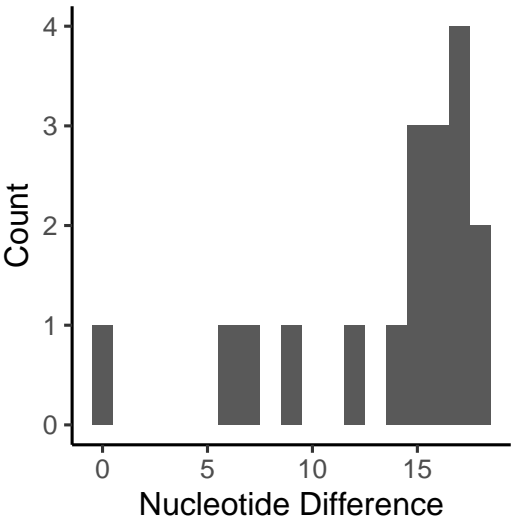
IGHV3-20*01

2 sequences assigned
No exact matches.



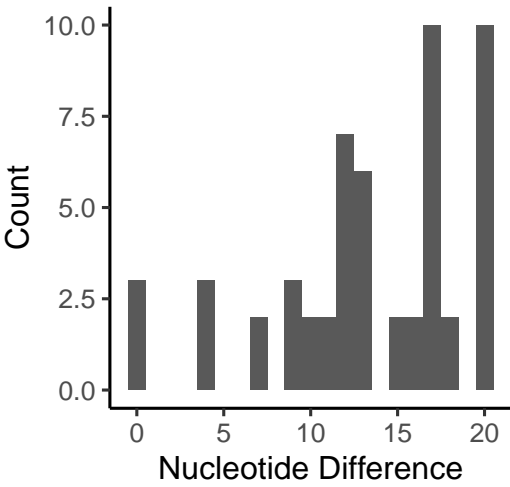
IGHV3-30-3*01

37 sequences assigned
1 (2.7%) exact matches, in which:
1 unique CDR3
1 unique J



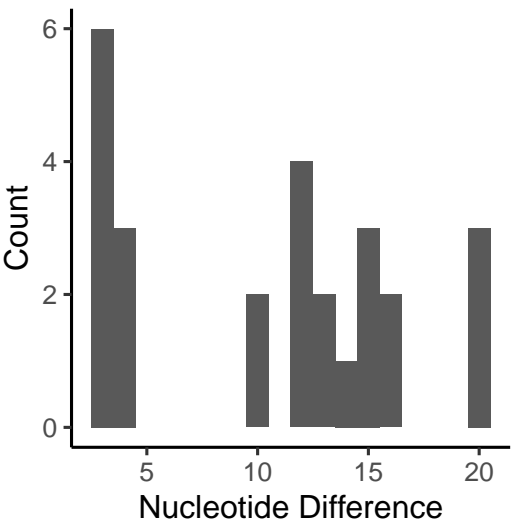
IGHV3-33*01

85 sequences assigned
3 (3.5%) exact matches, in which:
2 unique CDR3
2 unique J



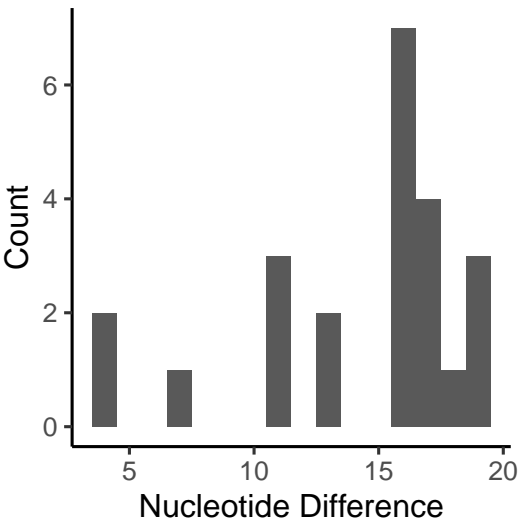
IGHV3-48*02

65 sequences assigned
No exact matches.



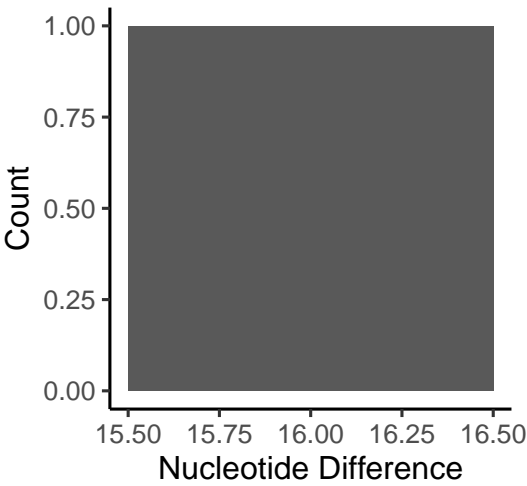
IGHV3-30*01

24 sequences assigned
No exact matches.



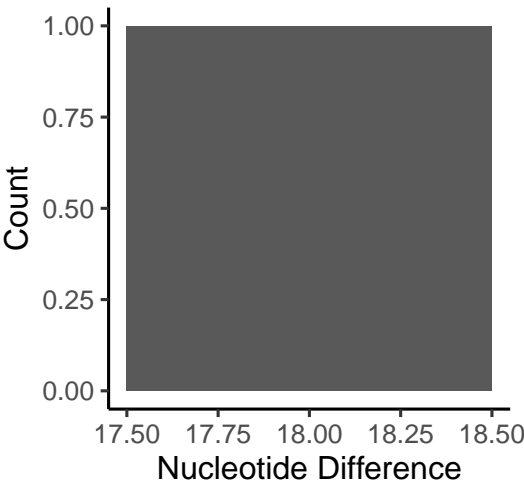
IGHV3-43*01

3 sequences assigned
No exact matches.



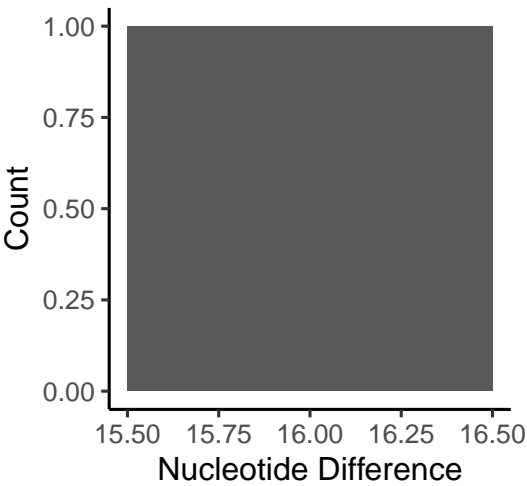
IGHV3-49*03

1 sequences assigned
No exact matches.



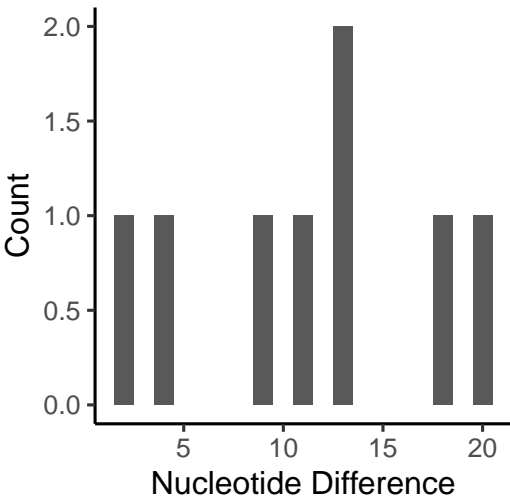
IGHV3-30*04

3 sequences assigned
No exact matches.



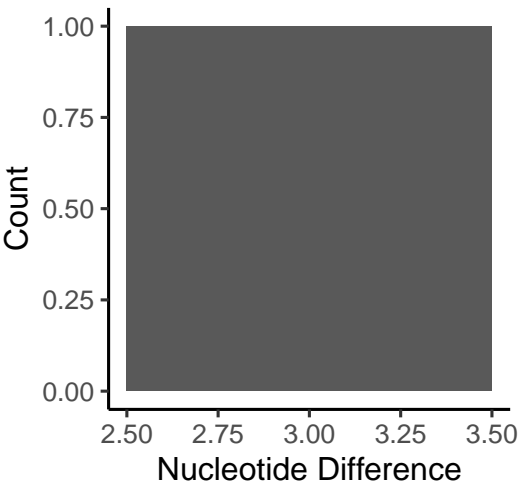
IGHV3-48*01

8 sequences assigned
No exact matches.



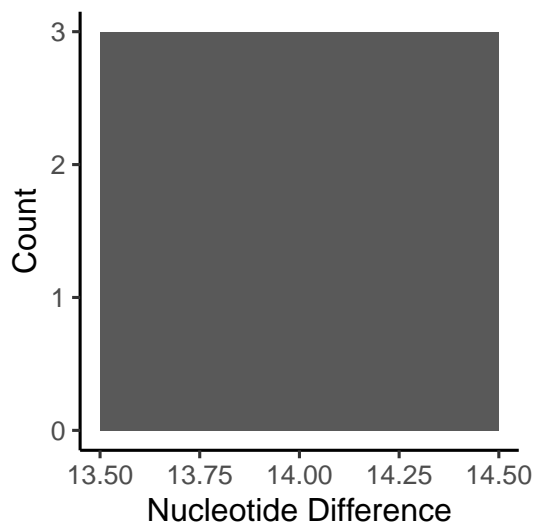
IGHV3-49*04

1 sequences assigned
No exact matches.



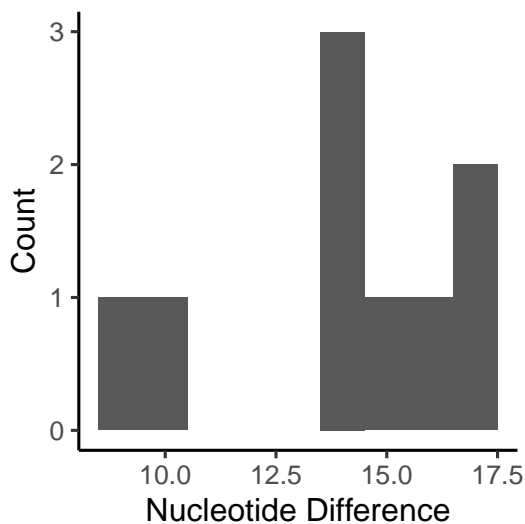
IGHV3-49*05

3 sequences assigned
No exact matches.



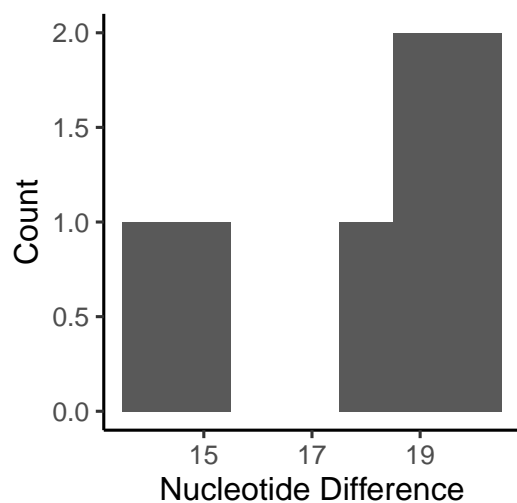
IGHV3-72*01

12 sequences assigned
No exact matches.



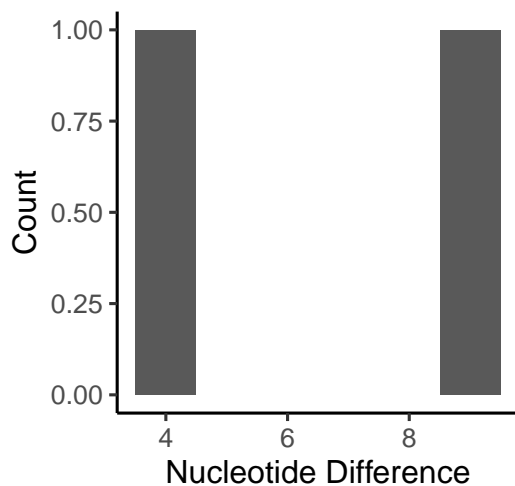
IGHV3-74*03

7 sequences assigned
No exact matches.



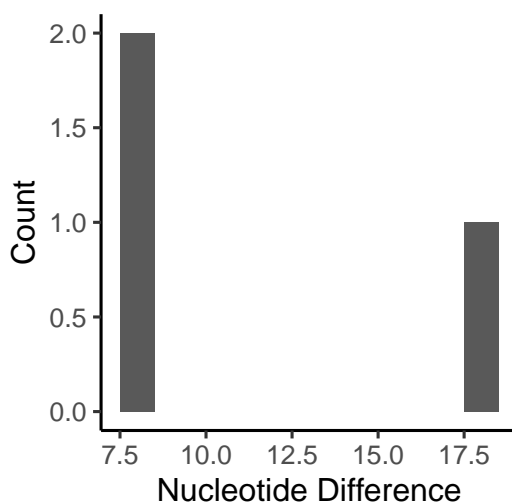
IGHV3-64*01

2 sequences assigned
No exact matches.



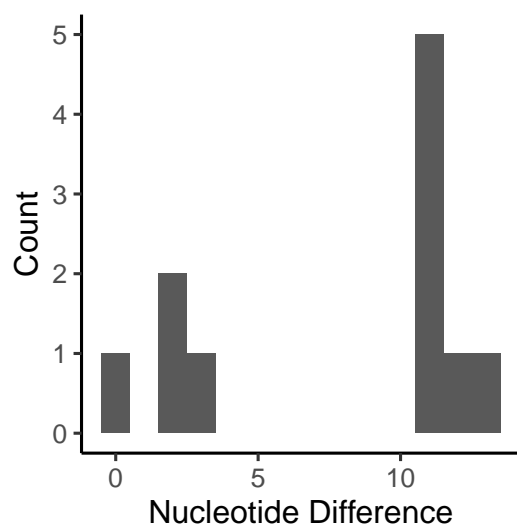
IGHV3-73*01

11 sequences assigned
No exact matches.



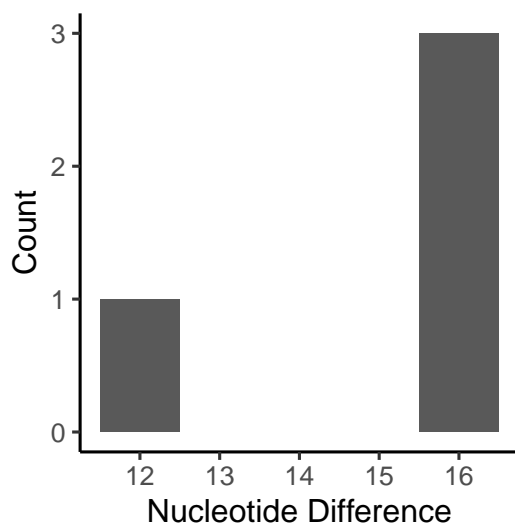
IGHV3-43D*03

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



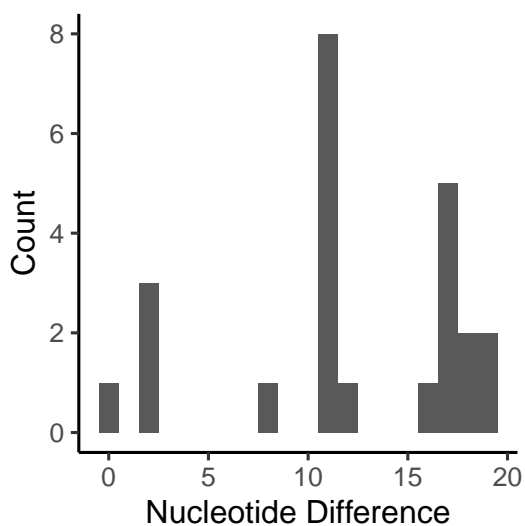
IGHV3-66*02

6 sequences assigned
No exact matches.



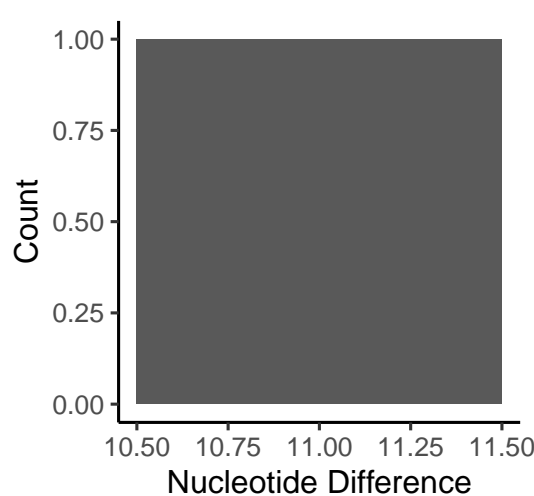
IGHV3-74*01

52 sequences assigned
1 (1.9%) exact matches, in which:
1 unique CDR3
1 unique J



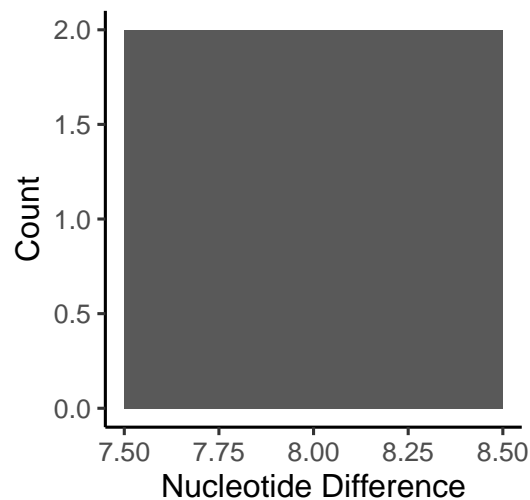
IGHV3-43D*04

1 sequences assigned
No exact matches.



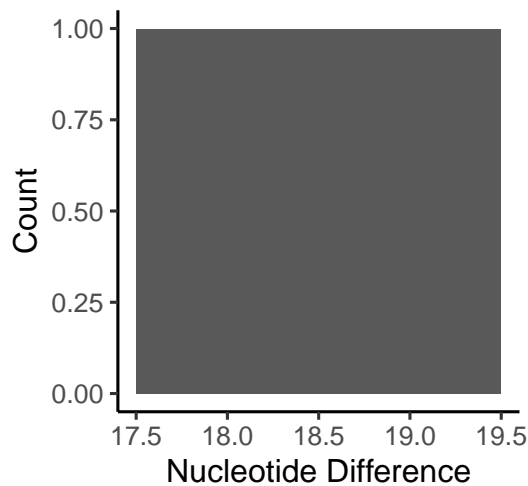
IGHV3-64D*09

2 sequences assigned
No exact matches.



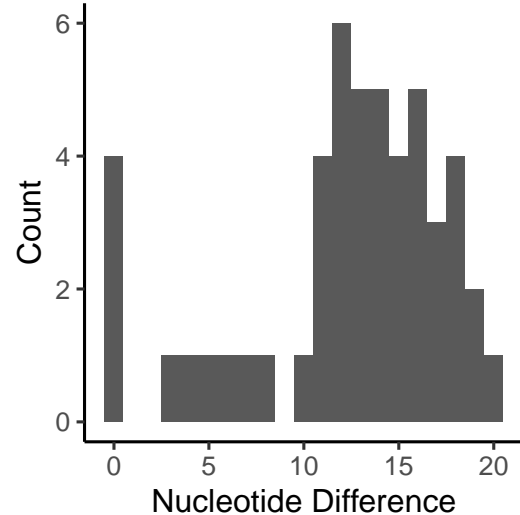
IGHV4-30-2*01

3 sequences assigned
No exact matches.



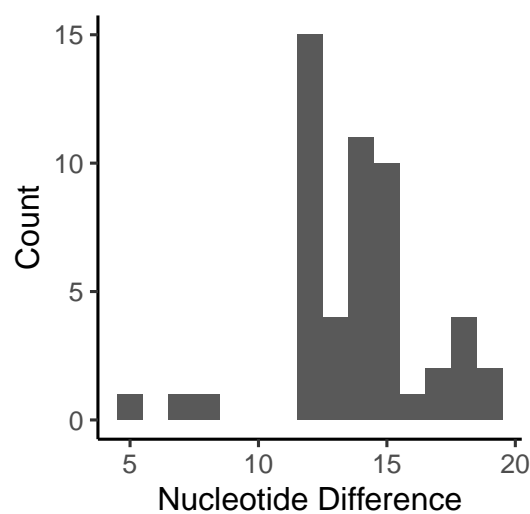
IGHV4-39*01

87 sequences assigned
4 (4.6%) exact matches, in which:
4 unique CDR3
2 unique J



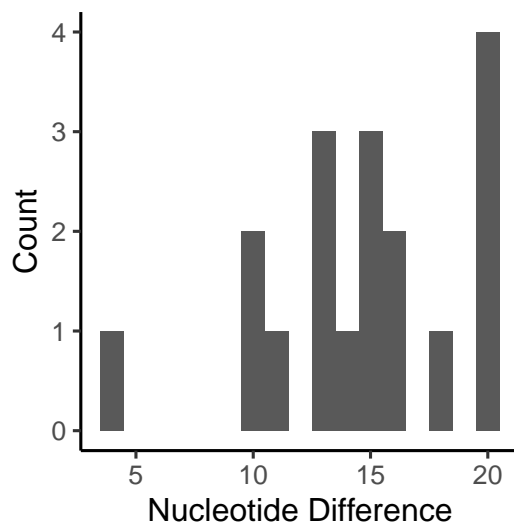
IGHV4-4*02

63 sequences assigned
No exact matches.



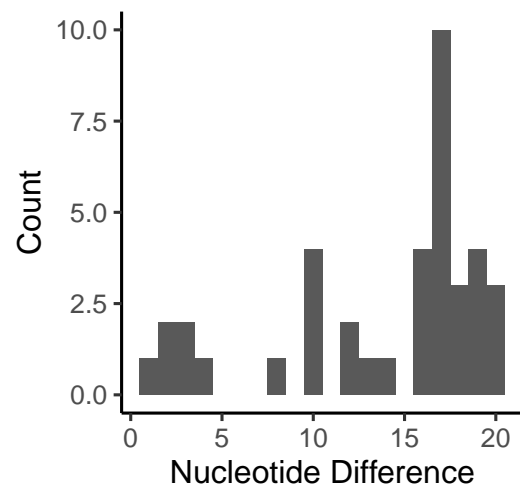
IGHV4-30-4*01

24 sequences assigned
No exact matches.



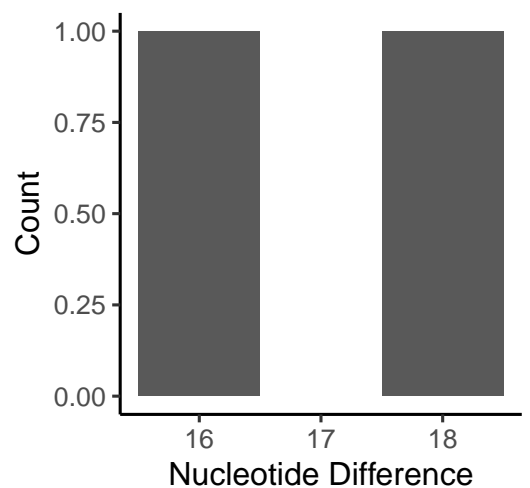
IGHV4-59*01

68 sequences assigned
No exact matches.



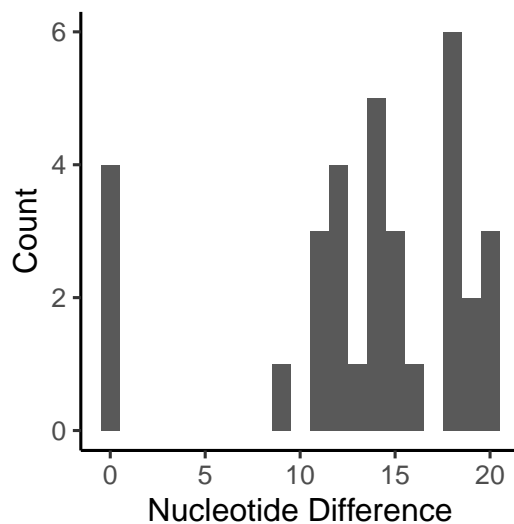
IGHV4-4*07

7 sequences assigned
No exact matches.



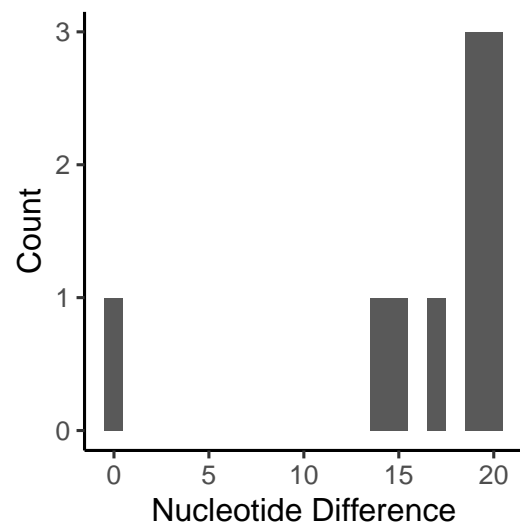
IGHV4-31*03

47 sequences assigned
4 (8.5%) exact matches, in which:
3 unique CDR3
2 unique J



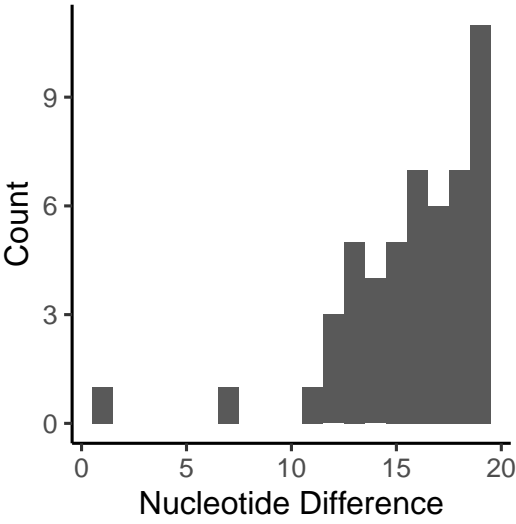
IGHV4-61*01

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



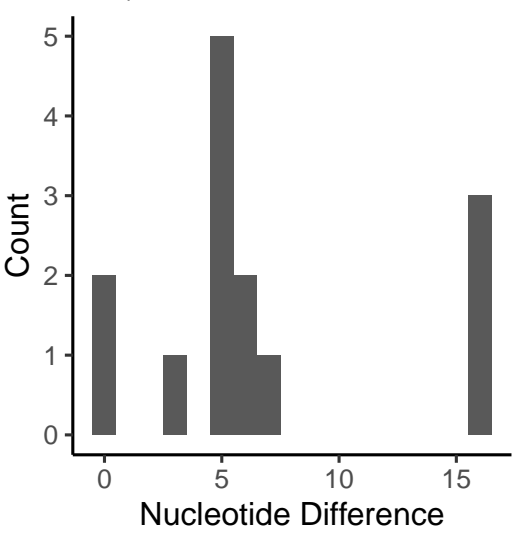
IGHV4-61*02

74 sequences assigned
No exact matches.



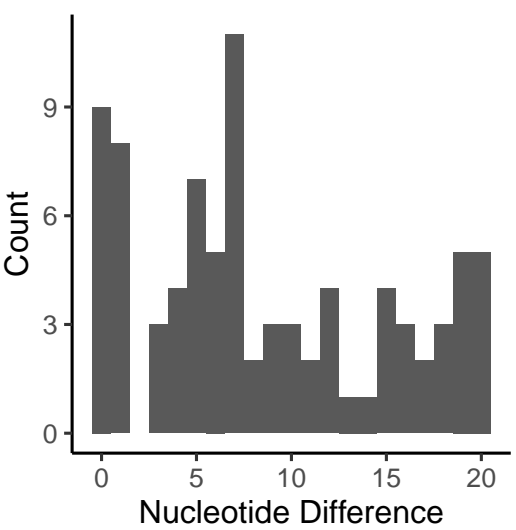
IGHV6-1*01

14 sequences assigned
2 (14.3%) exact matches, in which:
2 unique CDR3
2 unique J



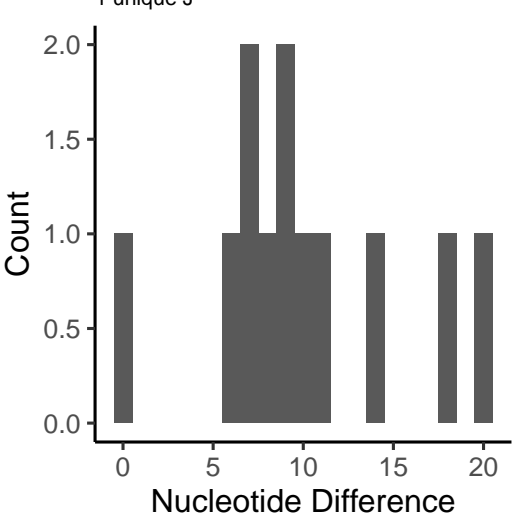
IGHV5-51*01

93 sequences assigned
9 (9.7%) exact matches, in which:
4 unique CDR3
3 unique J



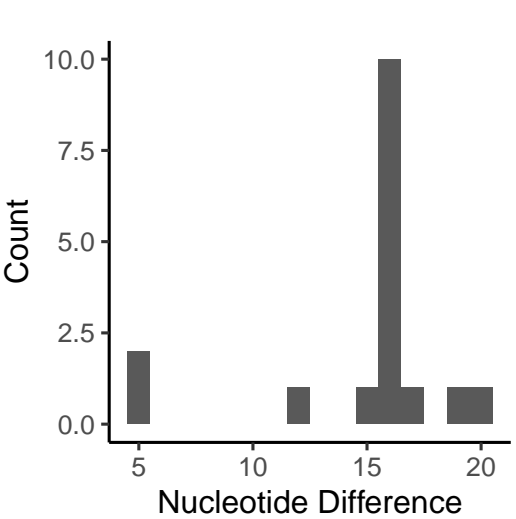
IGHV7-4-1*02

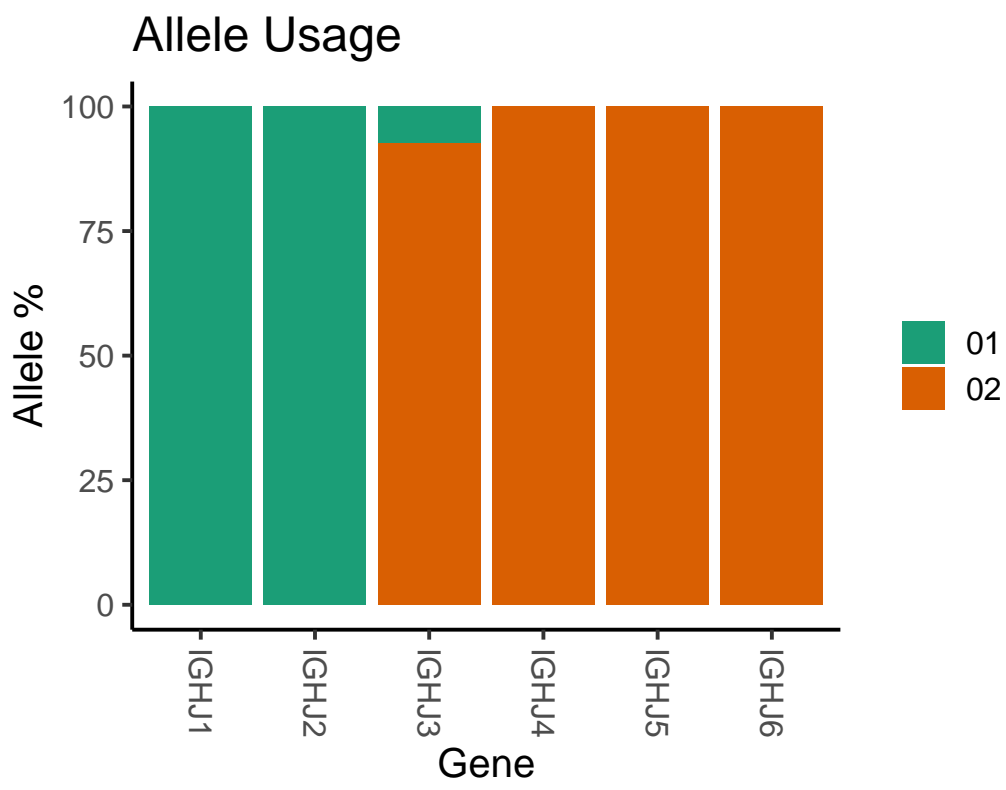
14 sequences assigned
1 (7.1%) exact matches, in which:
1 unique CDR3
1 unique J



IGHV5-51*03

25 sequences assigned
No exact matches.





[illegible]