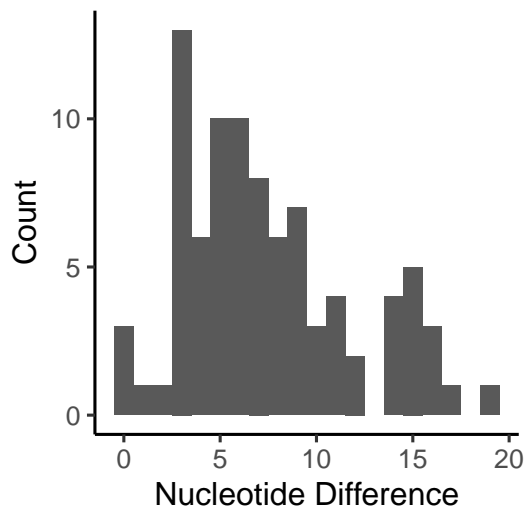


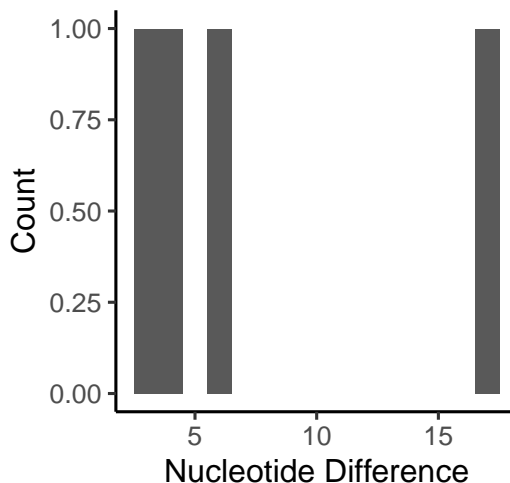
IGHV1-2*02

94 sequences assigned
3 (3.2%) exact matches, in which:
3 unique CDR3
2 unique J



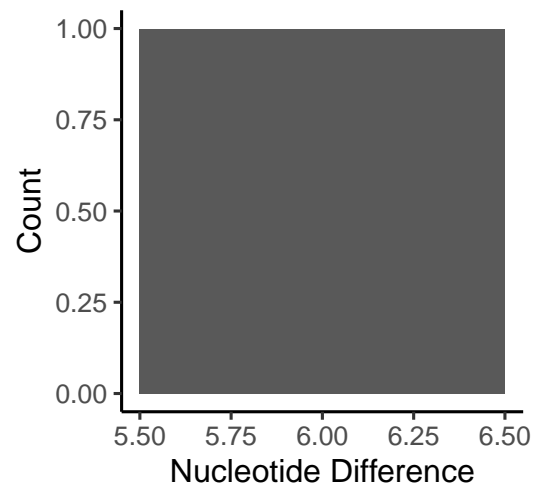
IGHV1-24*01

4 sequences assigned
No exact matches.



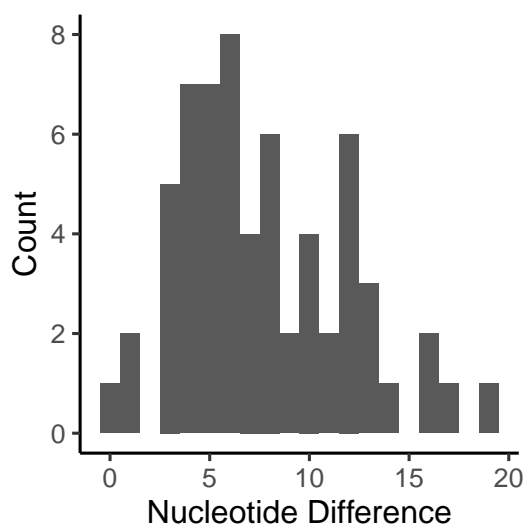
IGHV1-69-2*01

1 sequences assigned
No exact matches.



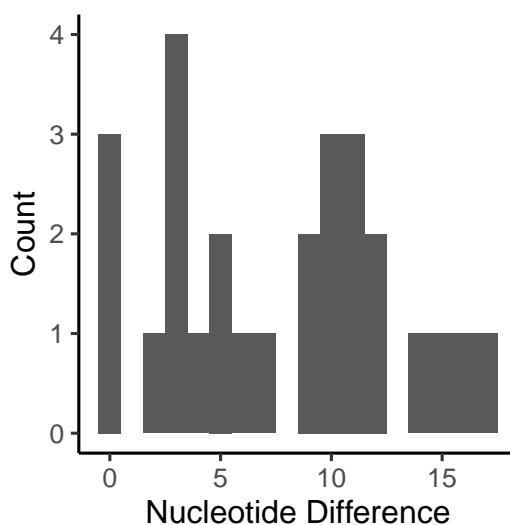
IGHV1-8*01

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



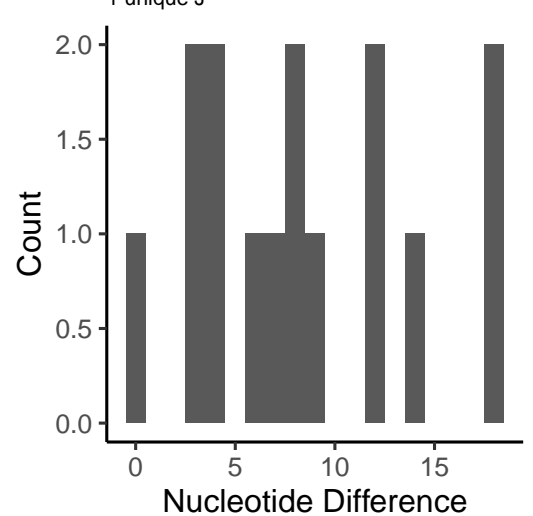
IGHV1-46*01

29 sequences assigned
3 (10.3%) exact matches, in which:
3 unique CDR3
2 unique J



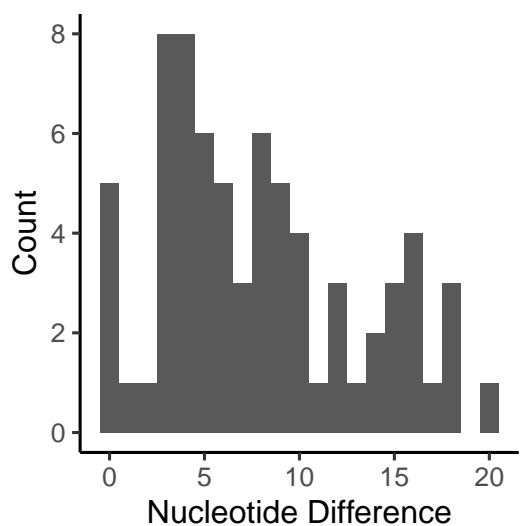
IGHV1-69*01_12_13

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



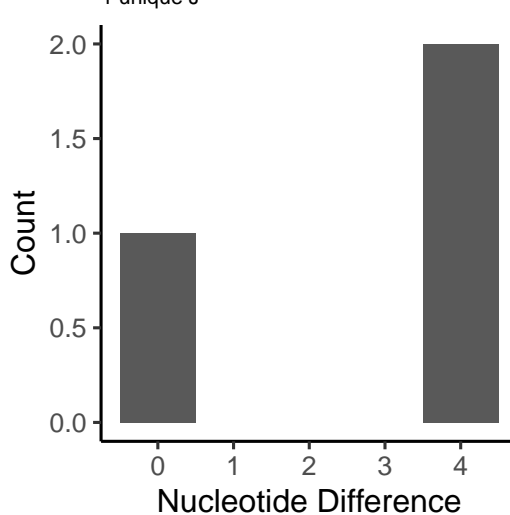
IGHV1-18*01

76 sequences assigned
5 (6.6%) exact matches, in which:
4 unique CDR3
2 unique J



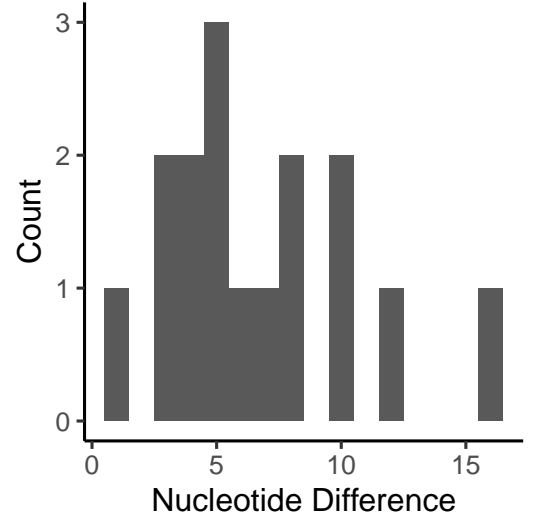
IGHV1-58*01_03

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



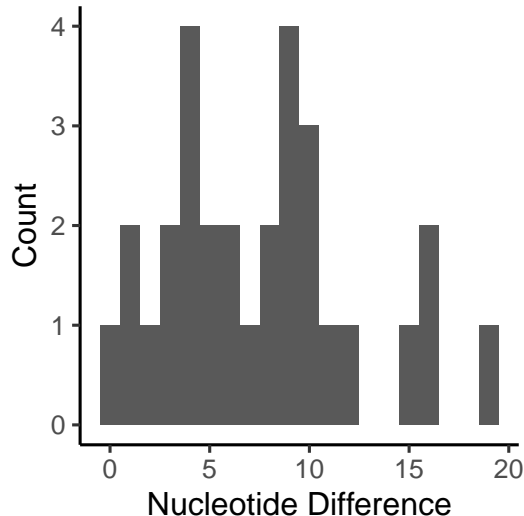
IGHV1-69*06_14

19 sequences assigned
No exact matches.



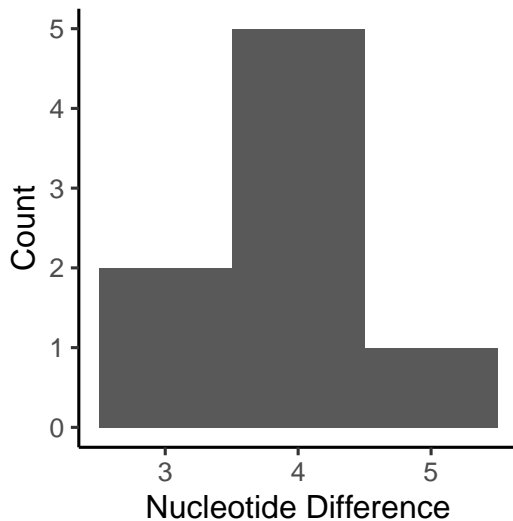
IGHV2-5*01

40 sequences assigned
1 (2.5%) exact matches, in which:
1 unique CDR3
1 unique J



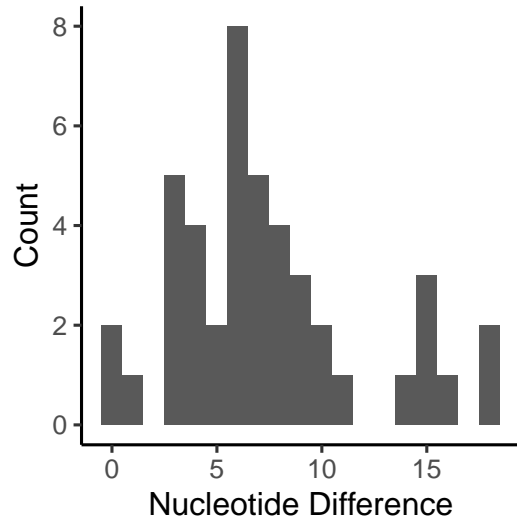
IGHV2-70*04

8 sequences assigned
No exact matches.



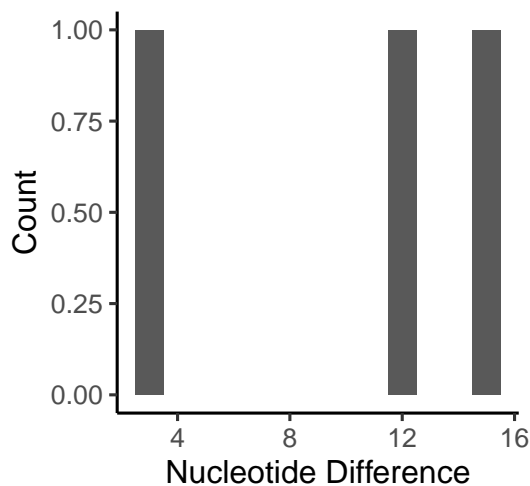
IGHV3-11*01

45 sequences assigned
2 (4.4%) exact matches, in which:
2 unique CDR3
1 unique J



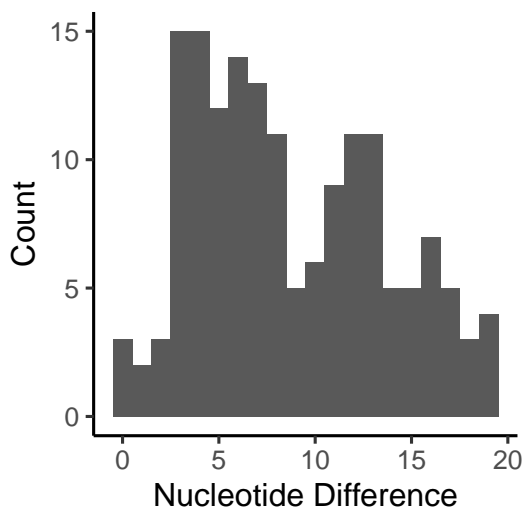
IGHV2-26*01

5 sequences assigned
No exact matches.



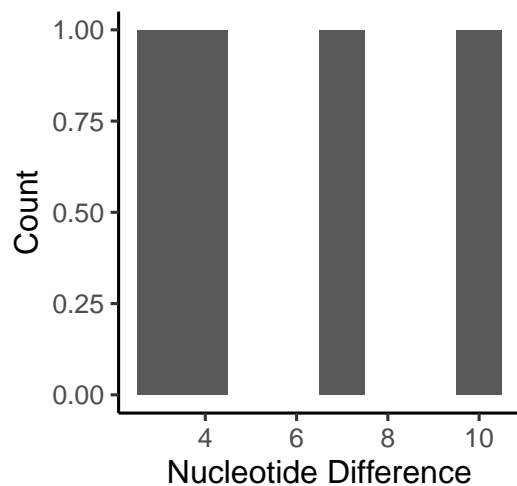
IGHV3-7*01

163 sequences assigned
3 (1.8%) exact matches, in which:
3 unique CDR3
2 unique J



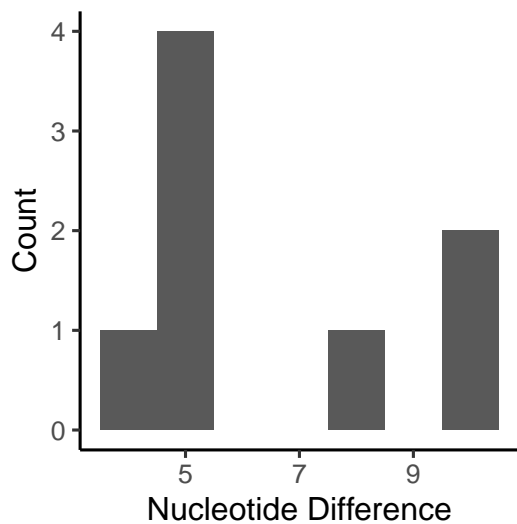
IGHV3-13*01

4 sequences assigned
No exact matches.



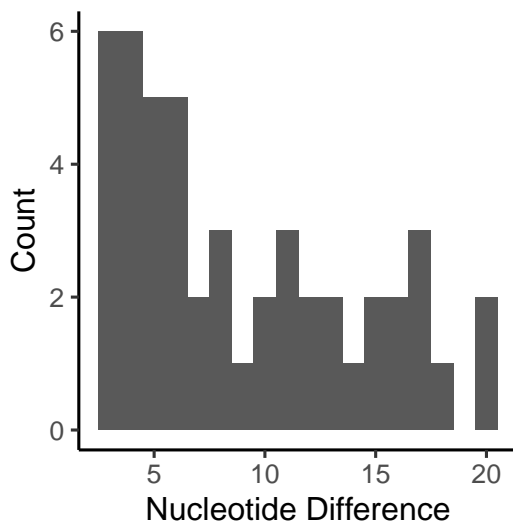
IGHV2-70*01

8 sequences assigned
No exact matches.



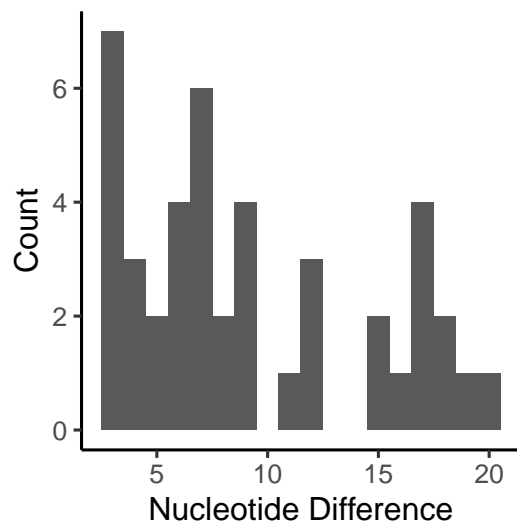
IGHV3-9*01

52 sequences assigned
No exact matches.



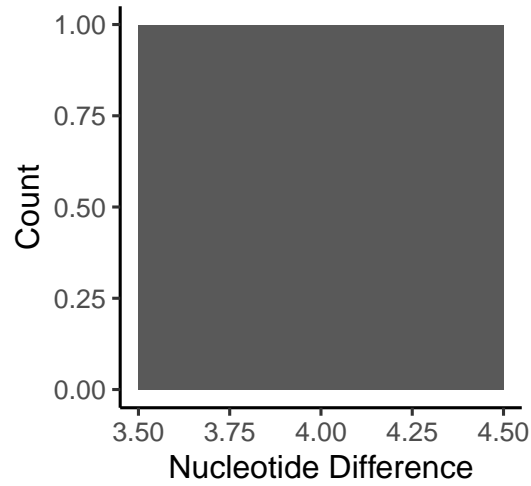
IGHV3-15*01_02

47 sequences assigned
No exact matches.



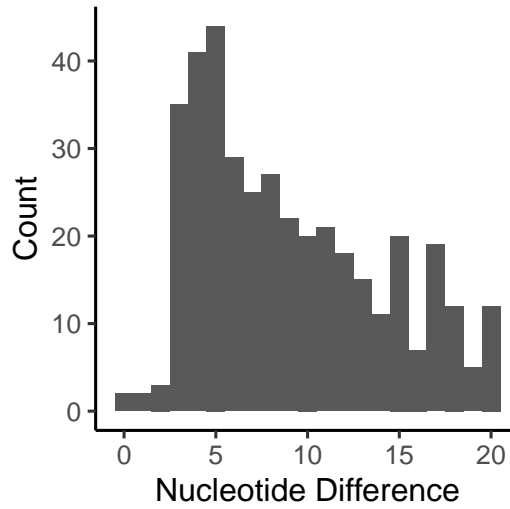
IGHV3-20*01_02

1 sequences assigned
No exact matches.



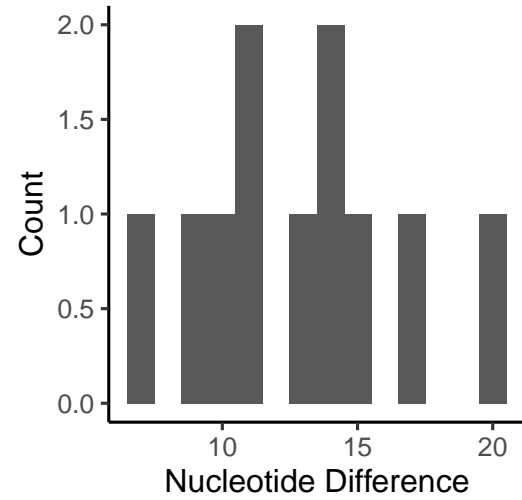
IGHV3-23*01_04

416 sequences assigned
2 (0.5%) exact matches, in which:
2 unique CDR3
2 unique J



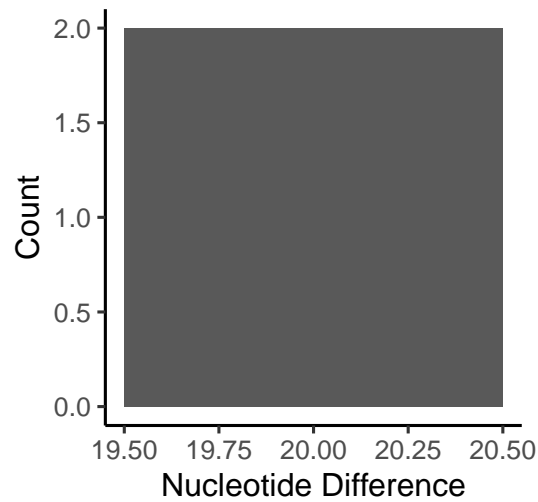
IGHV3-30*04

15 sequences assigned
No exact matches.



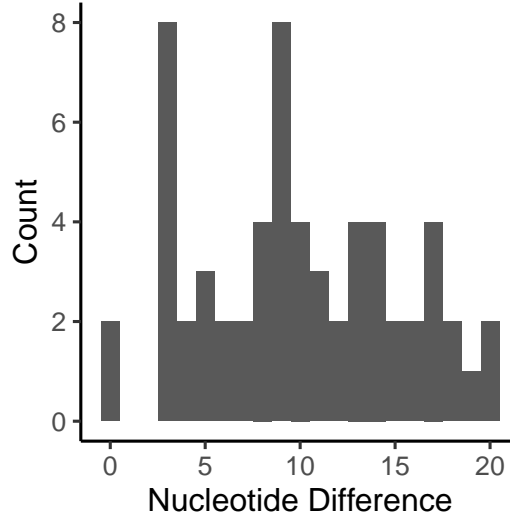
IGHV3-20*03_04

2 sequences assigned
No exact matches.



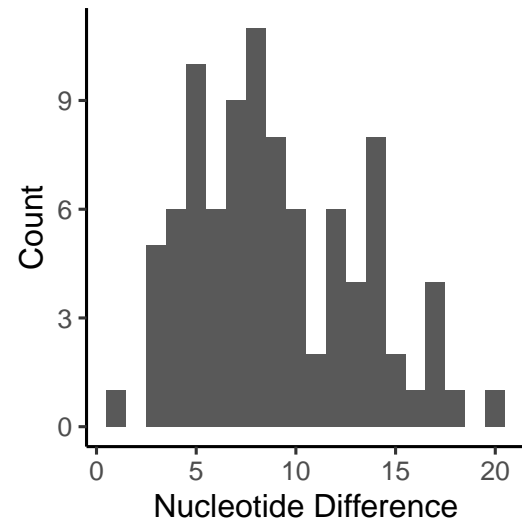
IGHV3-30-3*01

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



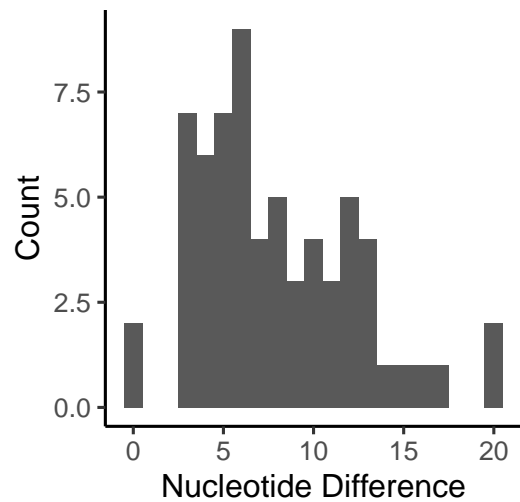
IGHV3-30*18

96 sequences assigned
No exact matches.



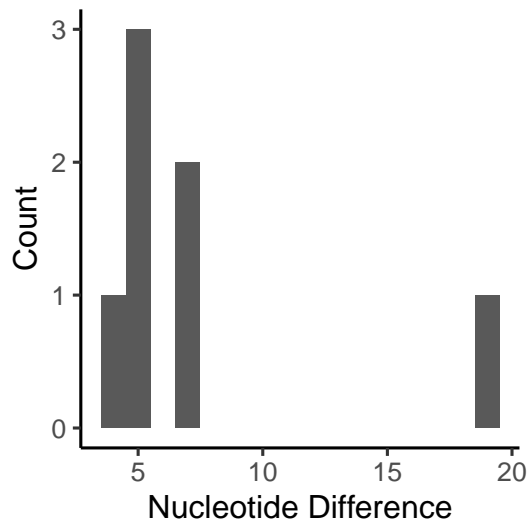
IGHV3-21*01_02

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



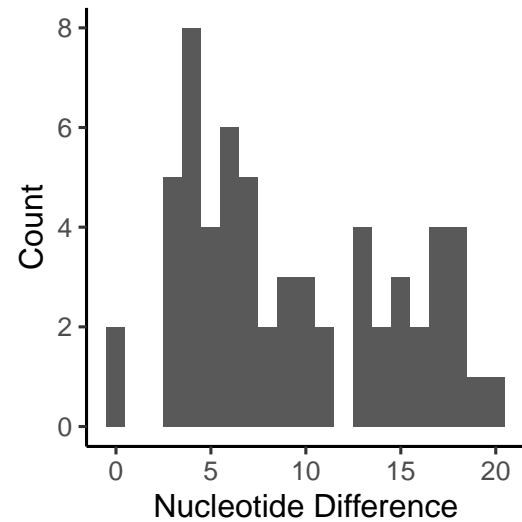
IGHV3-30*03

13 sequences assigned
No exact matches.



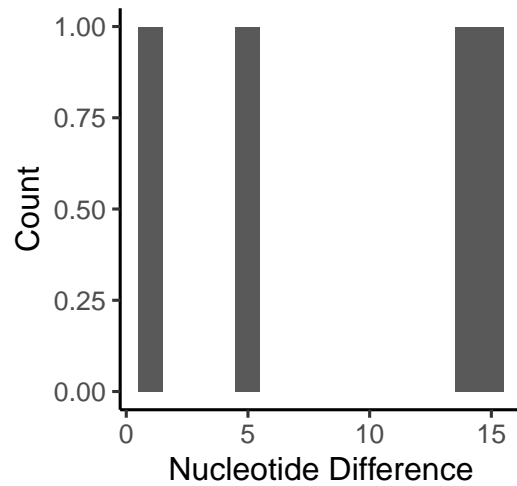
IGHV3-33*01

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



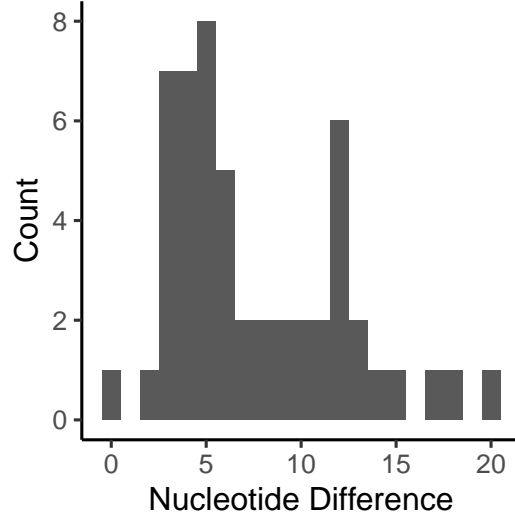
IGHV3-43*01

4 sequences assigned
No exact matches.



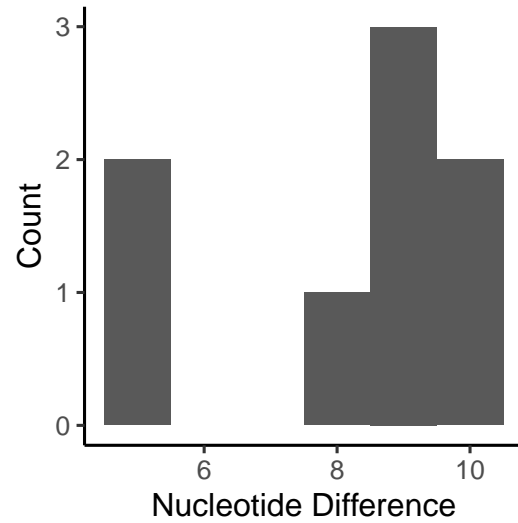
IGHV3-53*01_02

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



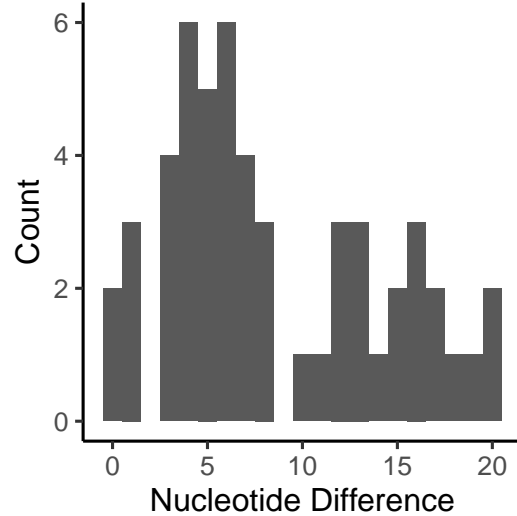
IGHV3-73*01_02

8 sequences assigned
No exact matches.



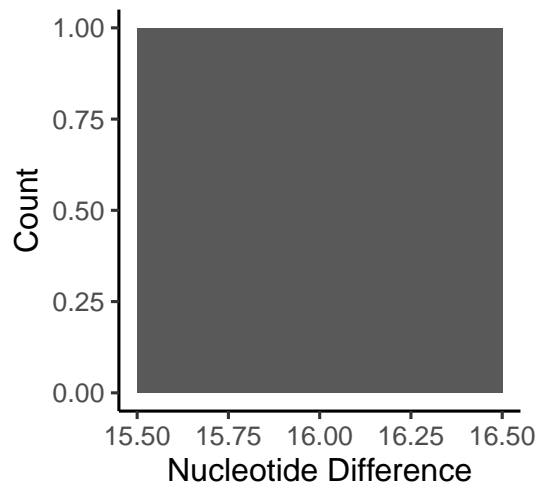
IGHV3-48*02

62 sequences assigned
2 (3.2%) exact matches, in which:
2 unique CDR3
1 unique J



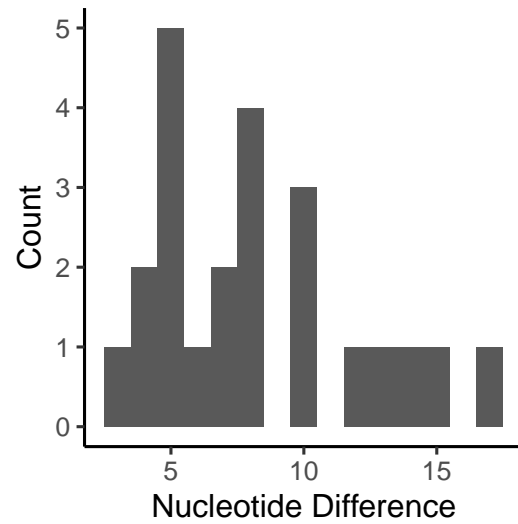
IGHV3-64*02_07

1 sequences assigned
No exact matches.



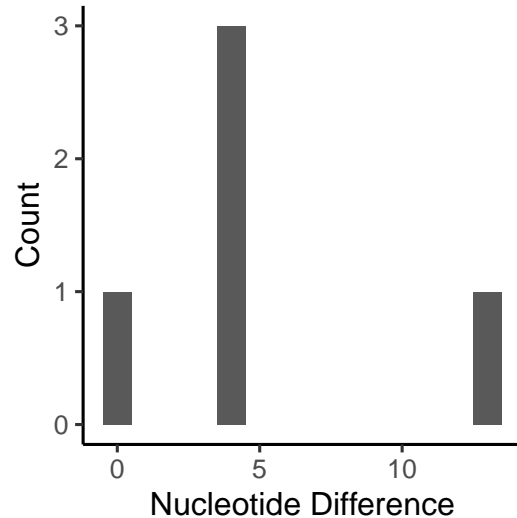
IGHV3-74*03

25 sequences assigned
No exact matches.



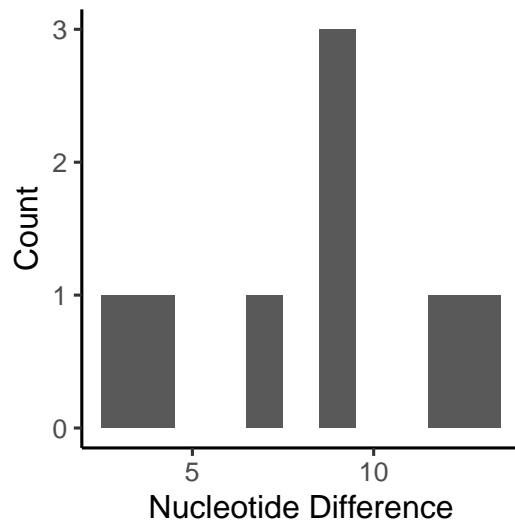
IGHV3-49*03_05

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



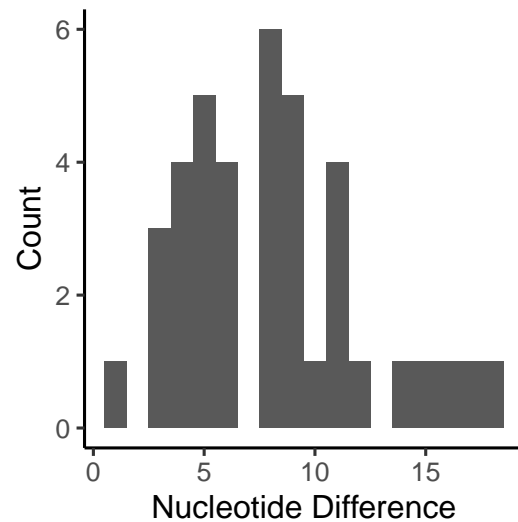
IGHV3-72*01

9 sequences assigned
No exact matches.



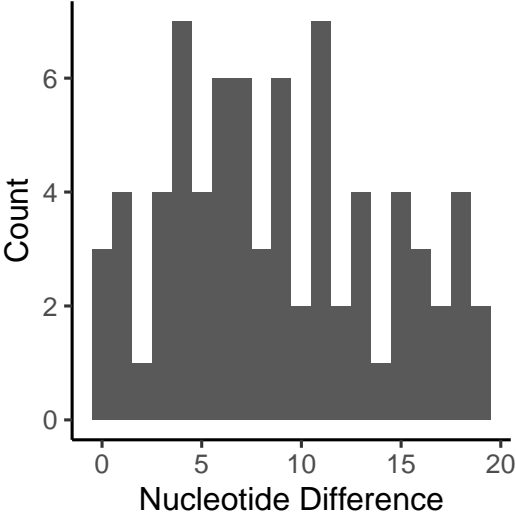
IGHV3-74*01_02

42 sequences assigned
No exact matches.



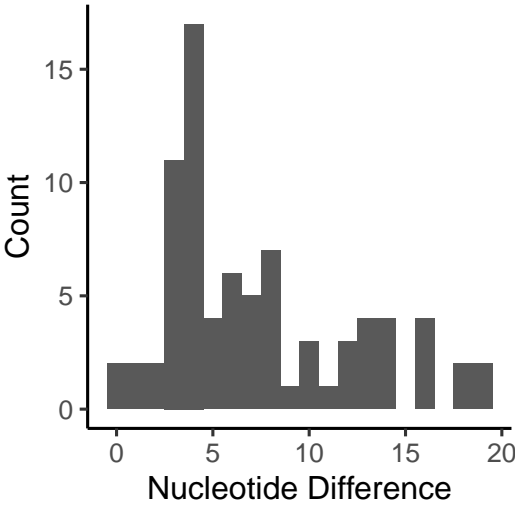
IGHV4-4*07

76 sequences assigned
3 (3.9%) exact matches, in which:
1 unique CDR3
1 unique J



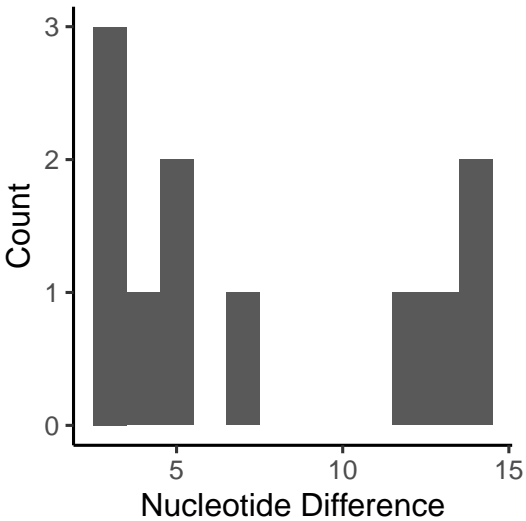
IGHV4-31*02

93 sequences assigned
2 (2.2%) exact matches, in which:
1 unique CDR3
1 unique J



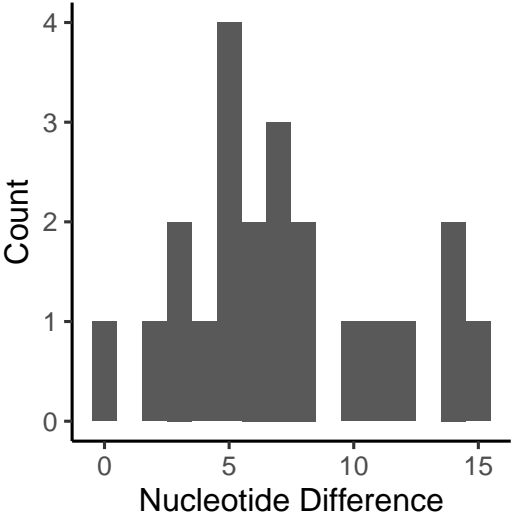
IGHV4-39*01_05

14 sequences assigned
No exact matches.



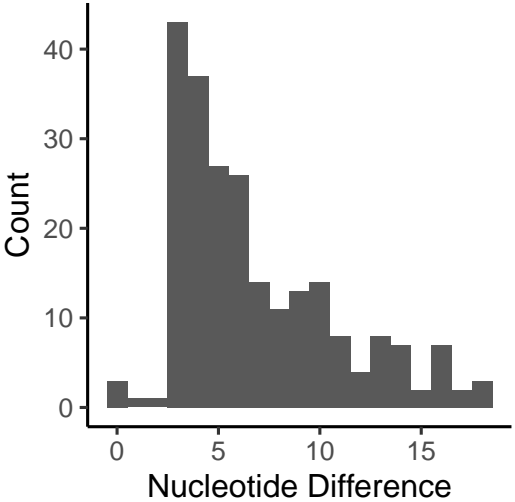
IGHV4-30-2*01

27 sequences assigned
1 (3.7%) exact matches, in which:
1 unique CDR3
1 unique J



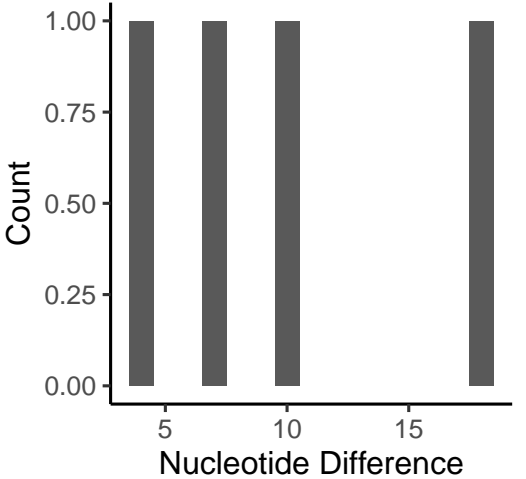
IGHV4-34*01_02

242 sequences assigned
3 (1.2%) exact matches, in which:
1 unique CDR3
1 unique J



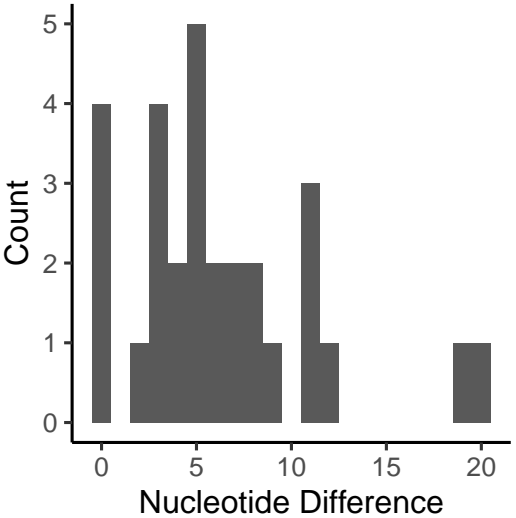
IGHV4-59*11

6 sequences assigned
No exact matches.



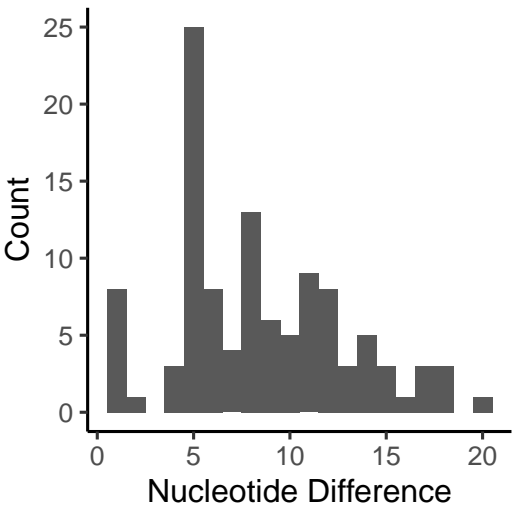
IGHV4-30-4*01

33 sequences assigned
4 (12.1%) exact matches, in which:
3 unique CDR3
2 unique J



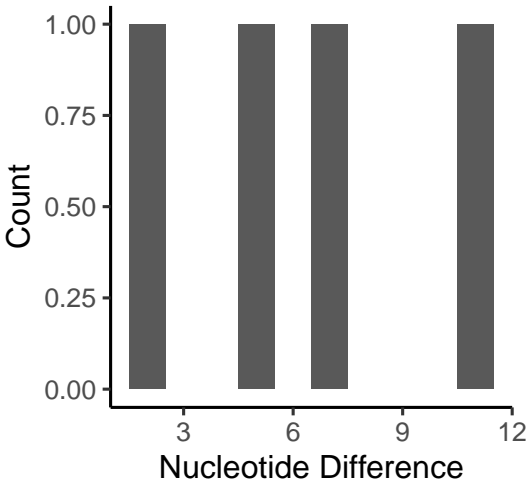
IGHV4-39*02

119 sequences assigned
No exact matches.



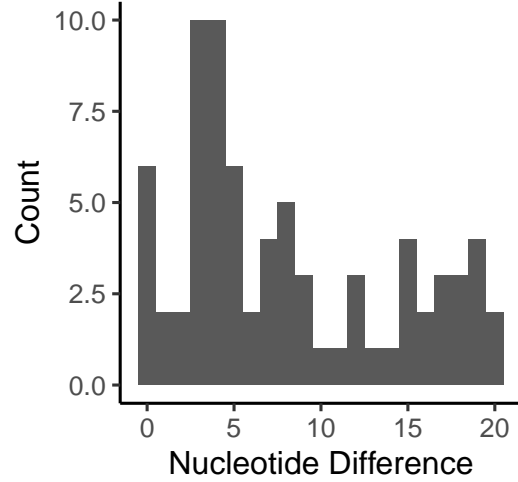
IGHV4-59*12

5 sequences assigned
No exact matches.



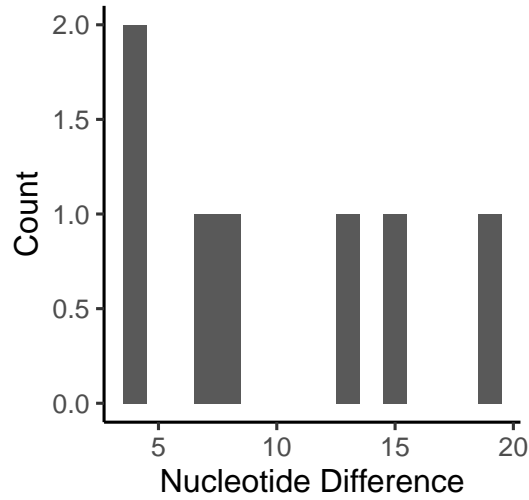
IGHV4-59*01_07

77 sequences assigned
6 (7.8%) exact matches, in which:
5 unique CDR3
3 unique J



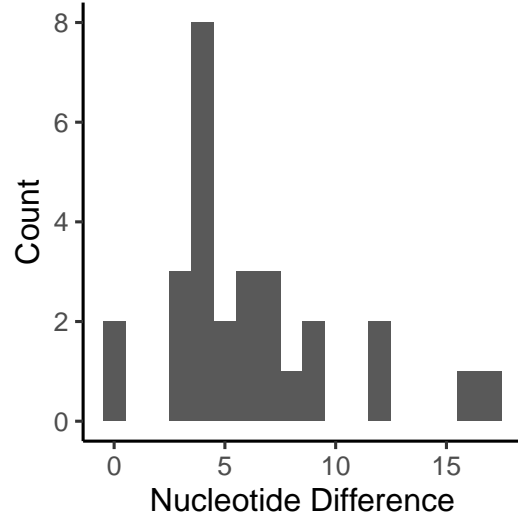
IGHV5-51*07

8 sequences assigned
No exact matches.



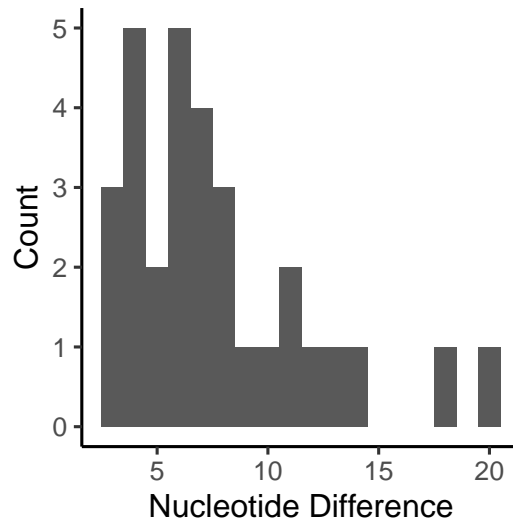
IGHV4-61*01

31 sequences assigned
2 (6.5%) exact matches, in which:
2 unique CDR3
1 unique J



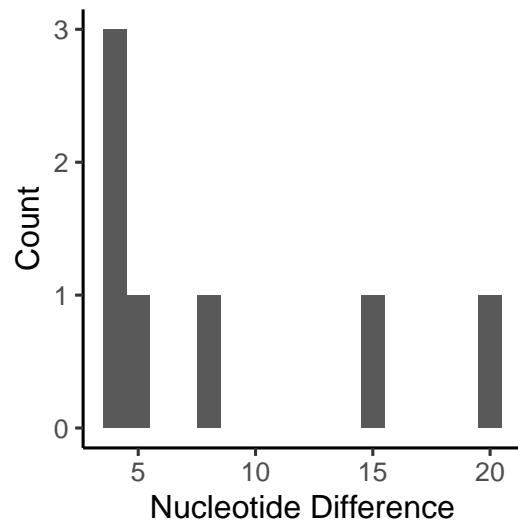
IGHV5-51*01_03

31 sequences assigned
No exact matches.



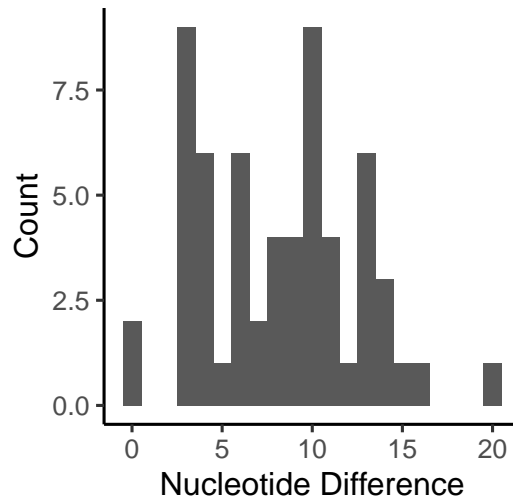
IGHV4-61*08

7 sequences assigned
No exact matches.

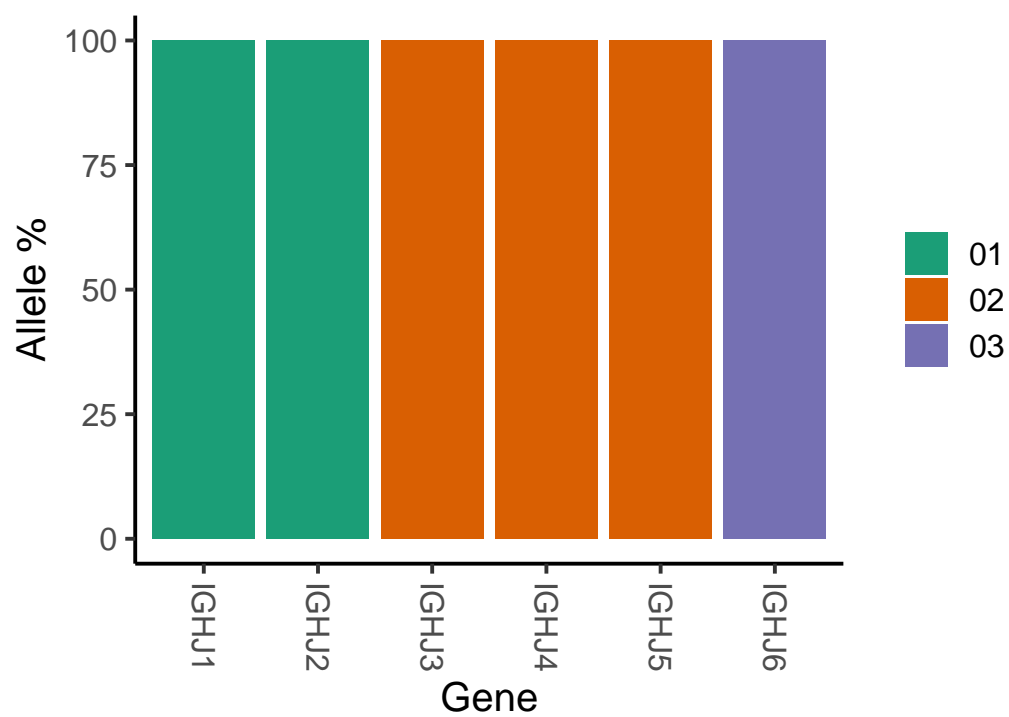


IGHV6-1*01_02

60 sequences assigned
2 (3.3%) exact matches, in which:
1 unique CDR3
1 unique J



Allele Usage



Warning – no inferred sequences found.