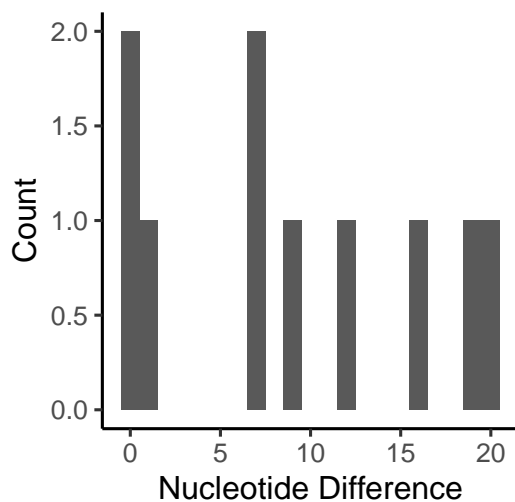


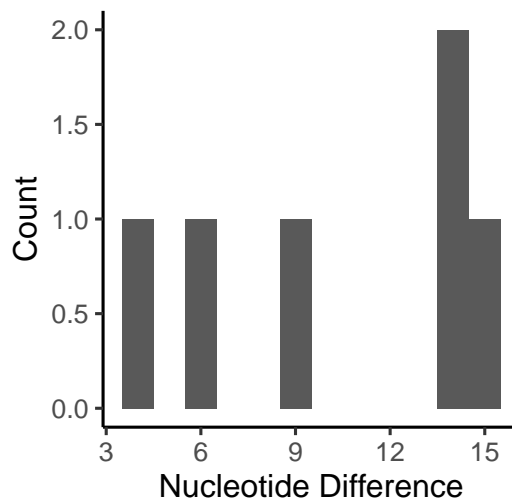
IGHV1-2*02

18 sequences assigned
2 (11.1%) exact matches, in which:
2 unique CDR3
2 unique J



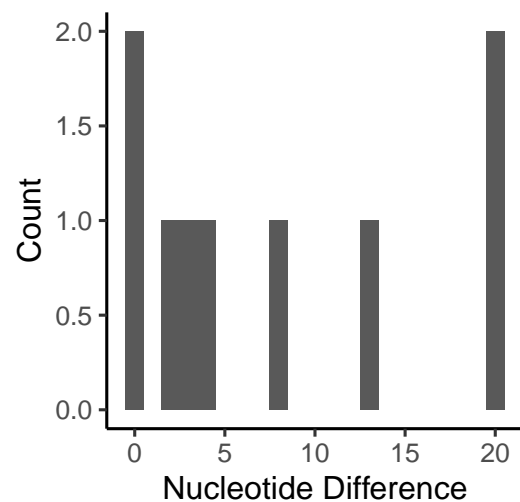
IGHV1-8*01

7 sequences assigned
No exact matches.



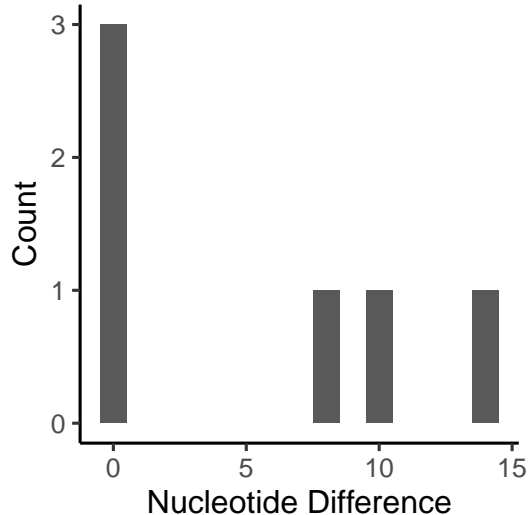
IGHV1-46*01

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



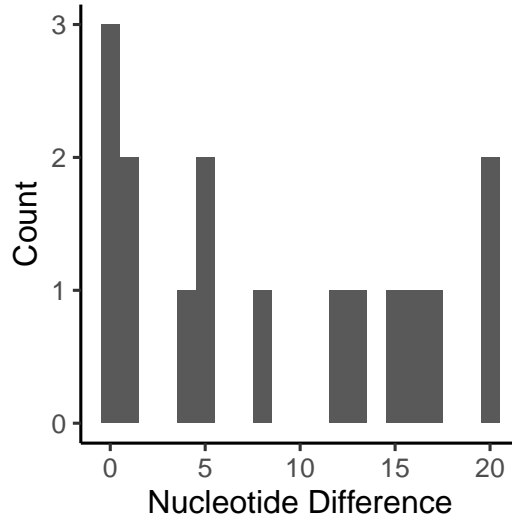
IGHV1-3*01

7 sequences assigned
3 (42.9%) exact matches, in which:
2 unique CDR3
1 unique J



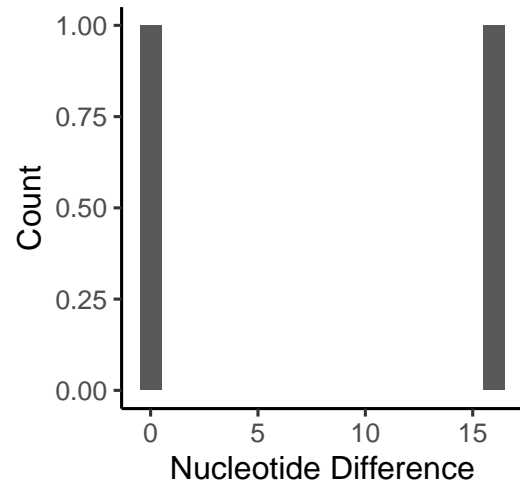
IGHV1-18*01

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



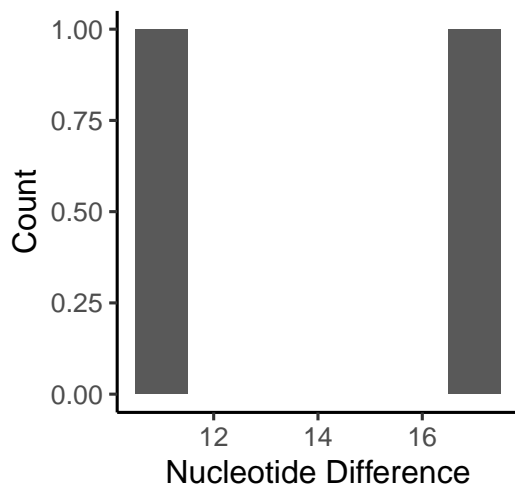
IGHV1-58*02

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



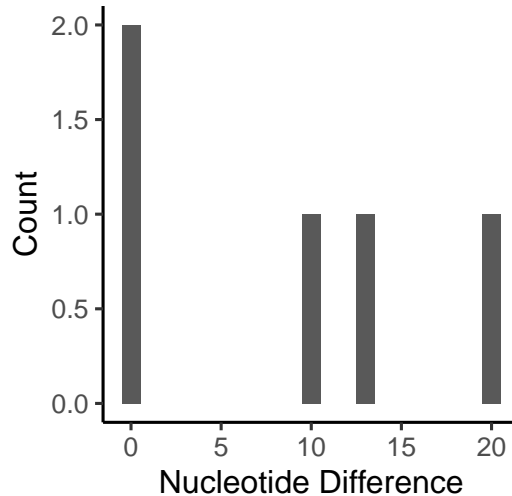
IGHV1-3*04

3 sequences assigned
No exact matches.



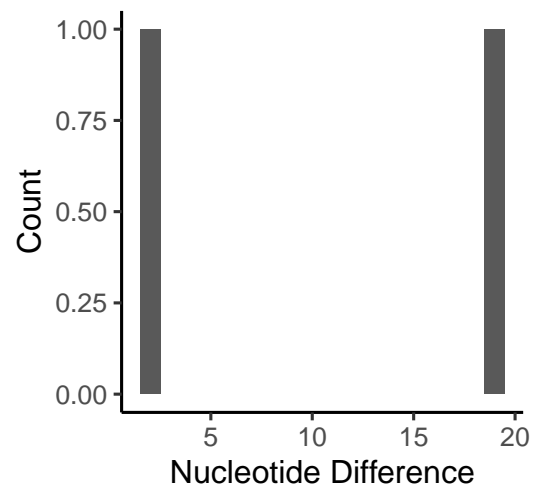
IGHV1-24*01

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



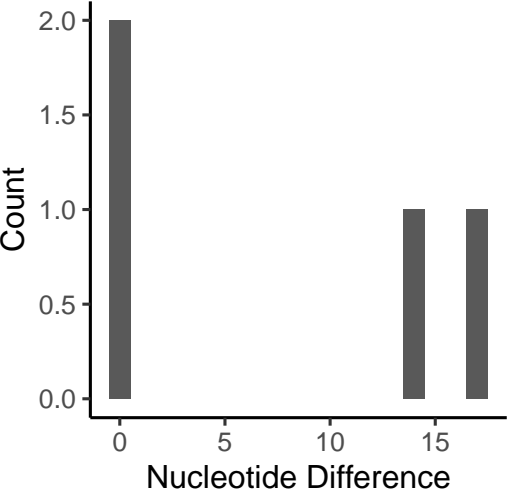
IGHV1-69*04

5 sequences assigned
No exact matches.



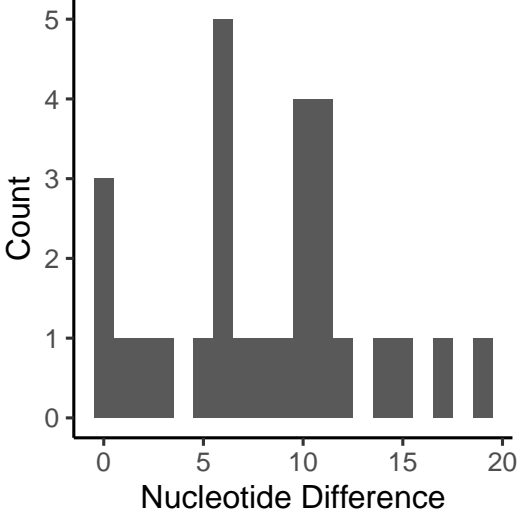
IGHV1-69*06

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



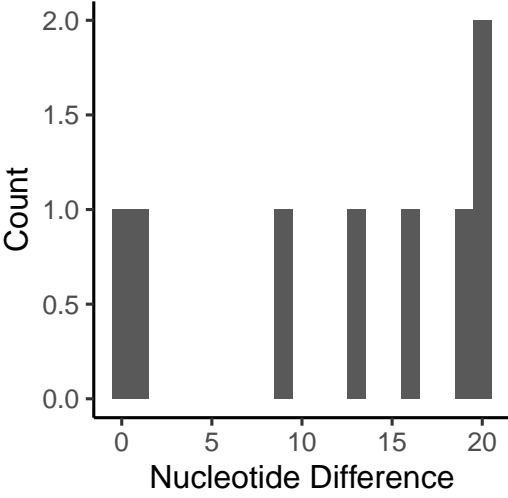
IGHV2-5*02

34 sequences assigned
3 (8.8%) exact matches, in which:
3 unique CDR3
2 unique J



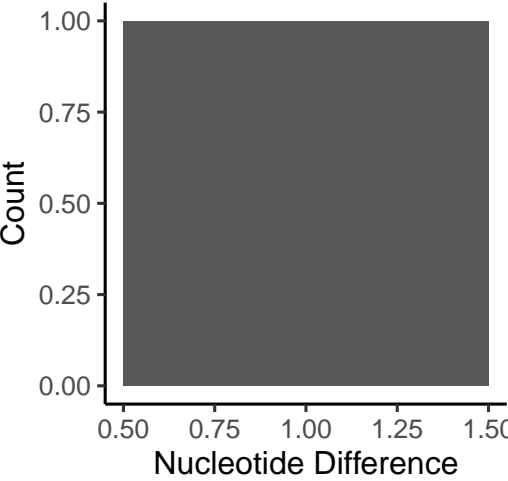
IGHV2-70*15

12 sequences assigned
1 (8.3%) exact matches, in which:
1 unique CDR3
1 unique J



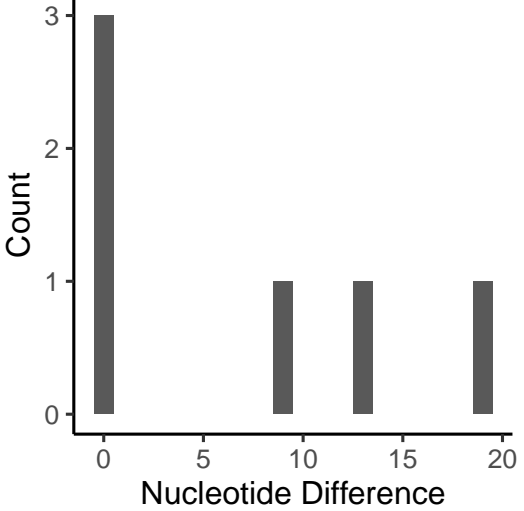
IGHV1-69*08

3 sequences assigned
No exact matches.



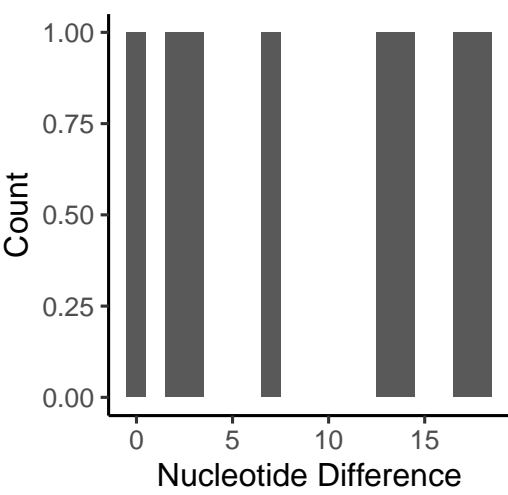
IGHV2-26*01

8 sequences assigned
3 (37.5%) exact matches, in which:
3 unique CDR3
3 unique J



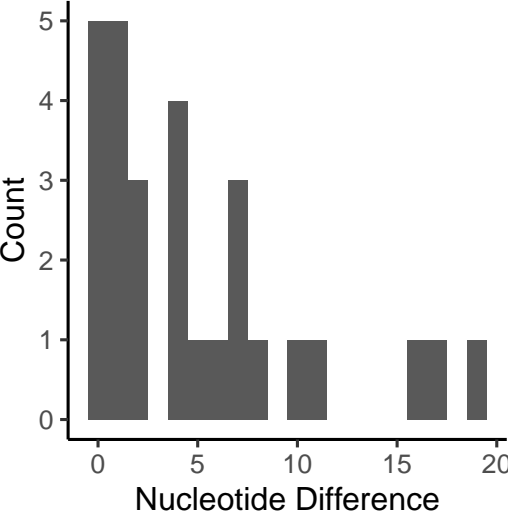
IGHV3-7*01

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



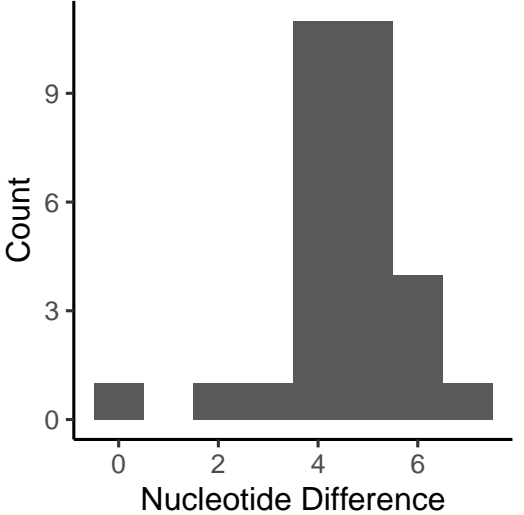
IGHV2-5*01

33 sequences assigned
5 (15.2%) exact matches, in which:
5 unique CDR3
4 unique J



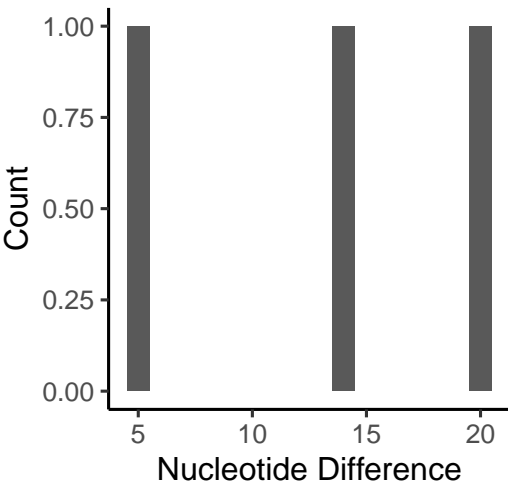
IGHV2-70*01

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



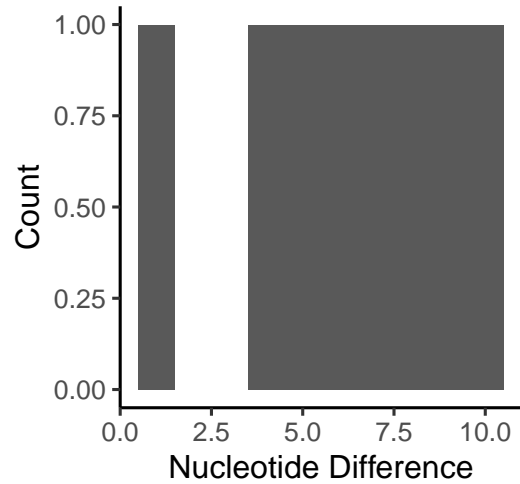
IGHV3-9*01

8 sequences assigned
No exact matches.



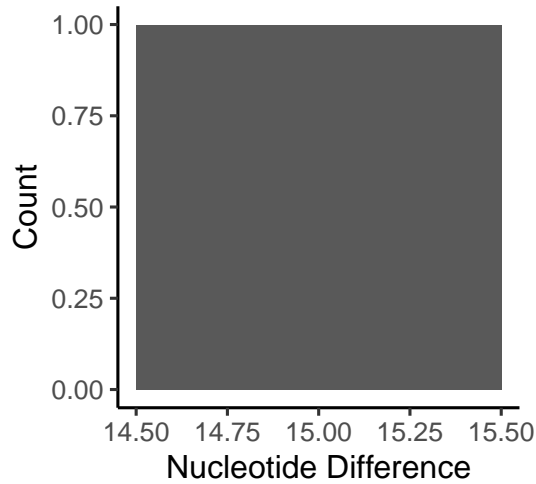
IGHV3-11*01

10 sequences assigned
No exact matches.



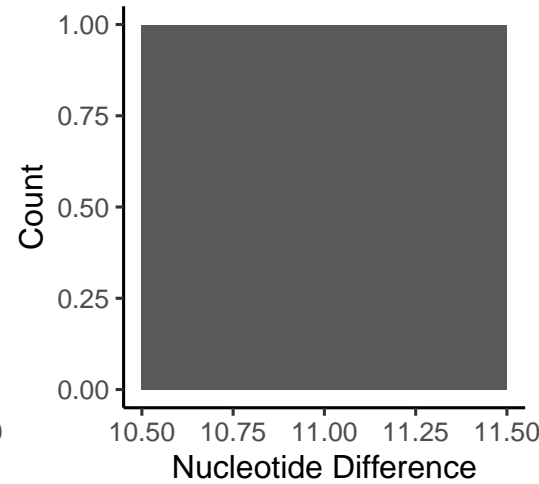
IGHV3-21*02

1 sequences assigned
No exact matches.



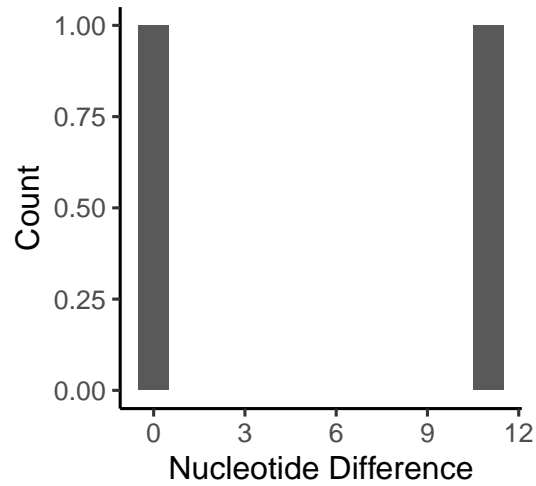
IGHV3-43*01

1 sequences assigned
No exact matches.



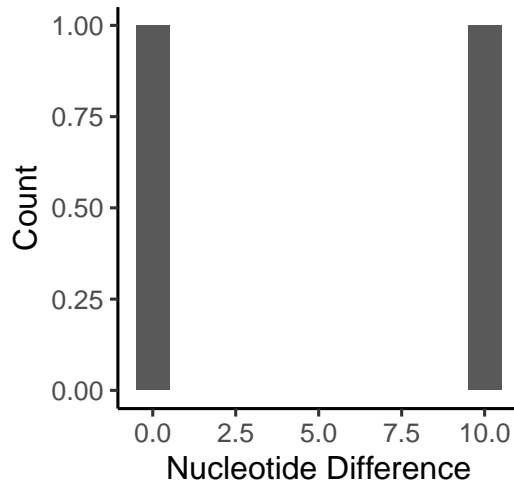
IGHV3-15*01

3 sequences assigned
1 (33.3%) exact matches, in which:
1 unique CDR3
0 unique J



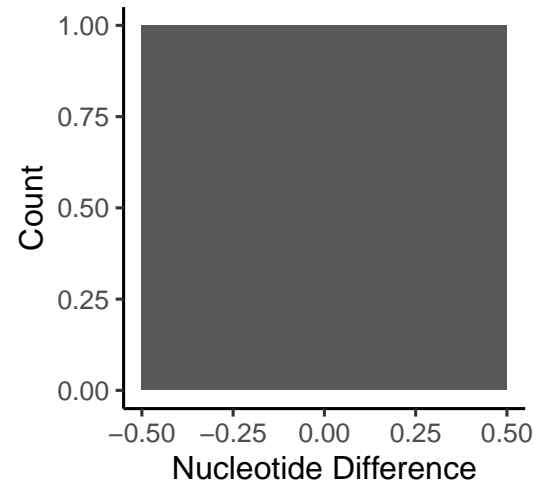
IGHV3-30*01

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



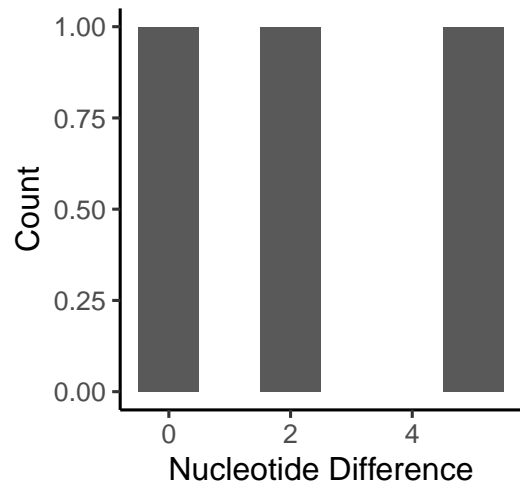
IGHV3-48*01

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



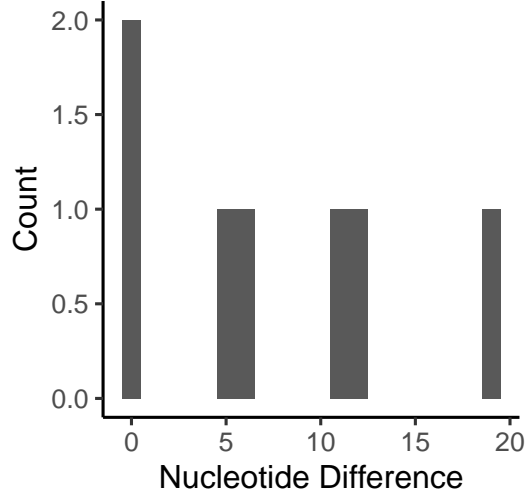
IGHV3-21*01

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



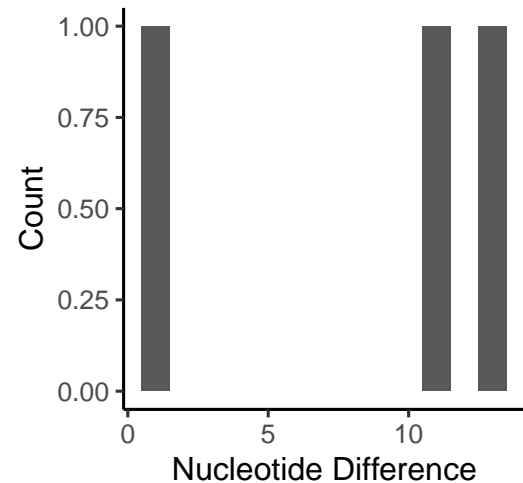
IGHV3-33*01

11 sequences assigned
2 (18.2%) exact matches, in which:
2 unique CDR3
2 unique J



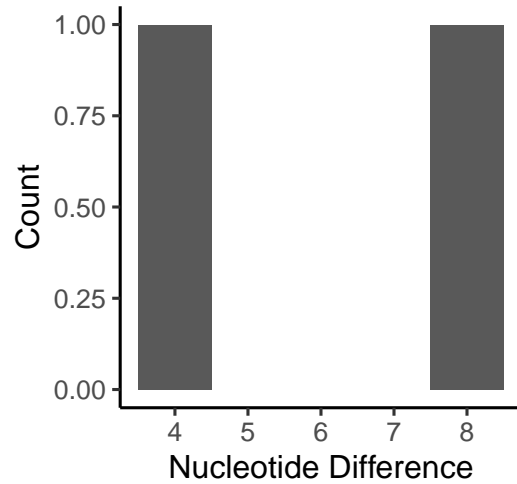
IGHV3-48*02

4 sequences assigned
No exact matches.



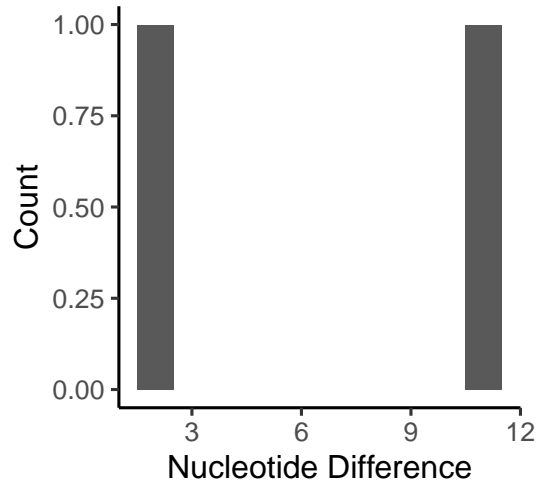
IGHV3-48*03

4 sequences assigned
No exact matches.



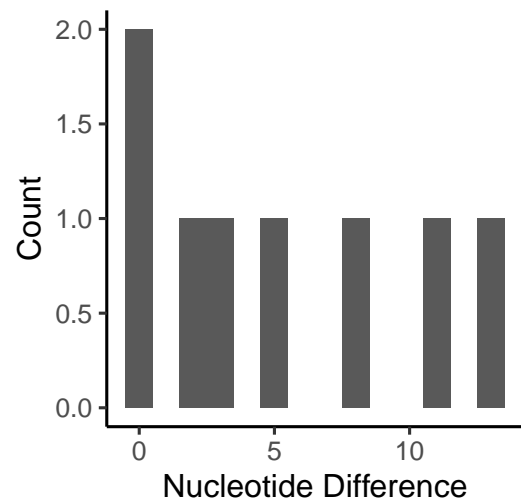
IGHV3-66*02

2 sequences assigned
No exact matches.



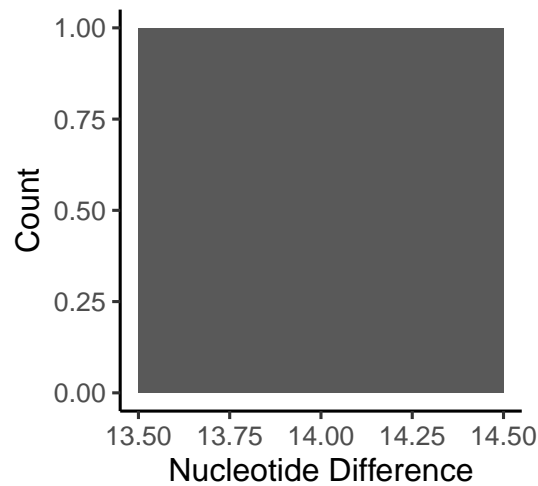
IGHV3-74*01

8 sequences assigned
2 (25%) exact matches, in which:
2 unique CDR3
2 unique J



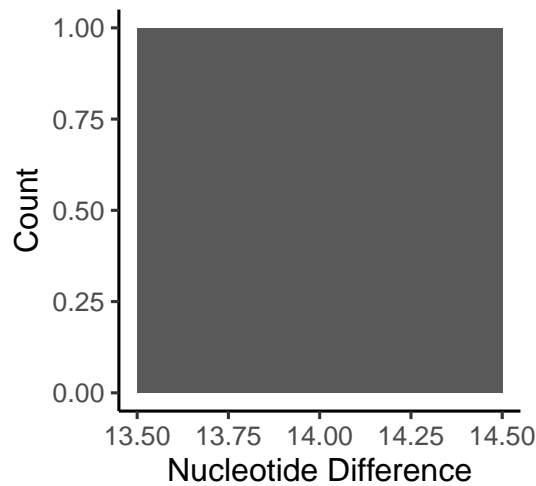
IGHV3-49*04

2 sequences assigned
No exact matches.



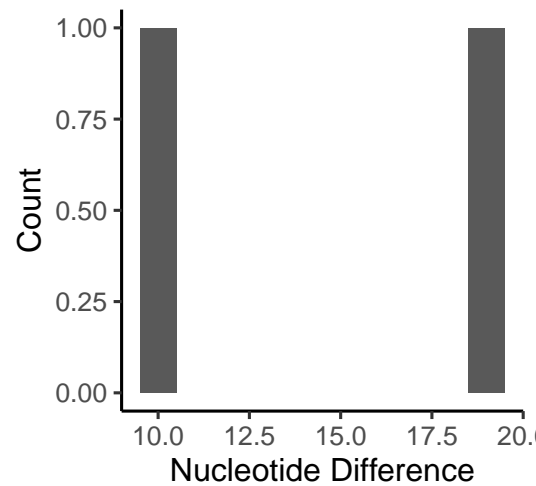
IGHV3-69-1*01

1 sequences assigned
No exact matches.



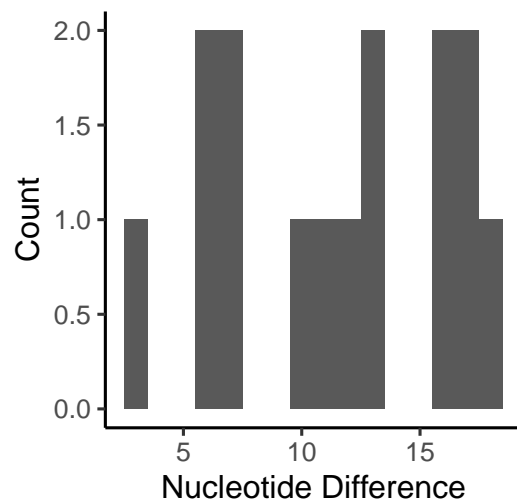
IGHV3-64D*06

2 sequences assigned
No exact matches.



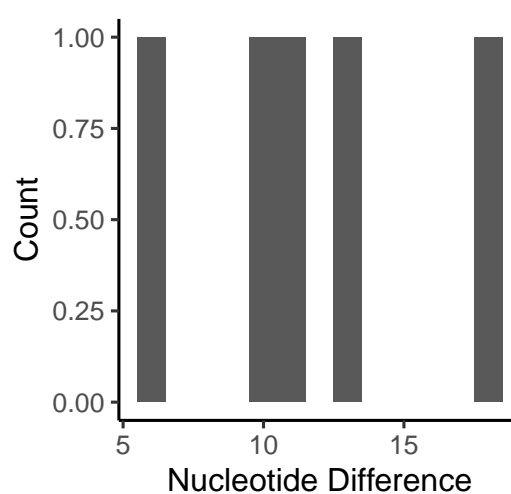
IGHV3-53*01

18 sequences assigned
No exact matches.



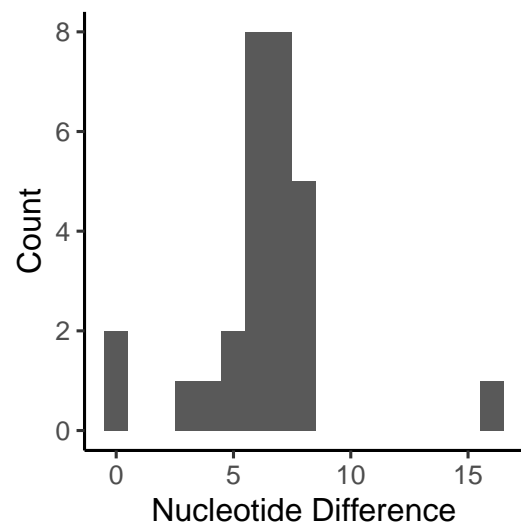
IGHV3-72*01

6 sequences assigned
No exact matches.



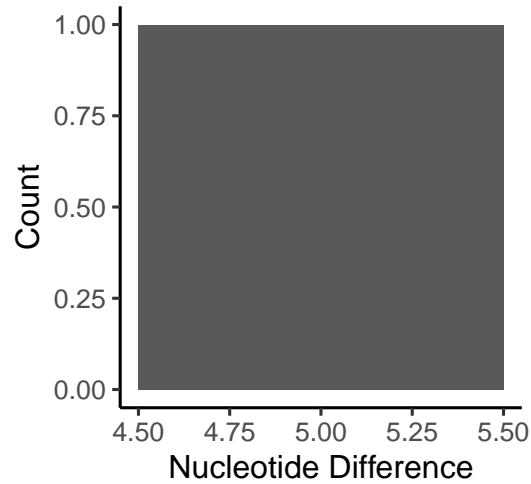
IGHV4-4*02

33 sequences assigned
2 (6.1%) exact matches, in which:
2 unique CDR3
1 unique J



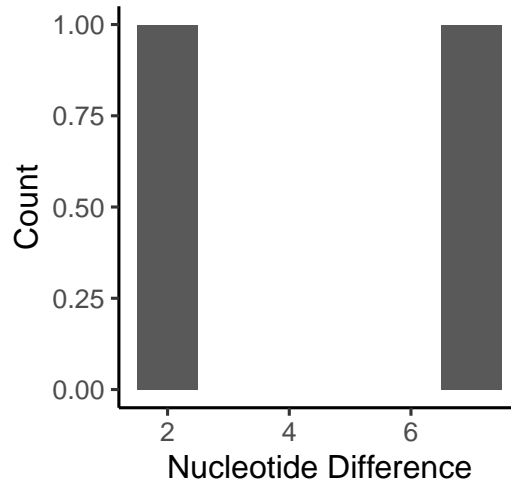
IGHV4-4*07

2 sequences assigned
No exact matches.



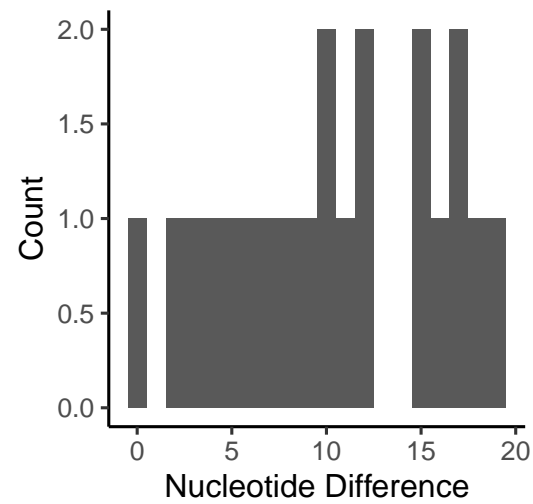
IGHV4-34*02

14 sequences assigned
No exact matches.



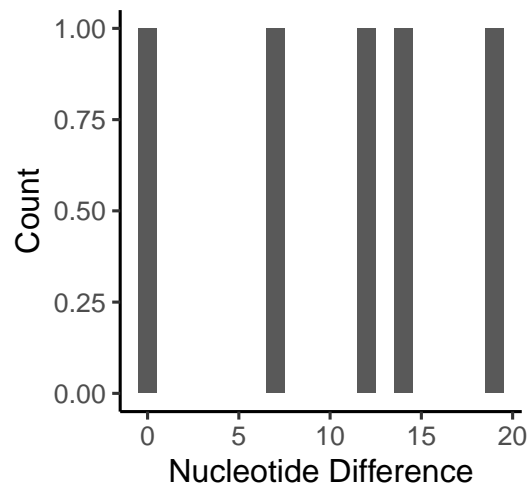
IGHV4-39*01

39 sequences assigned
1 (2.6%) exact matches, in which:
1 unique CDR3
1 unique J



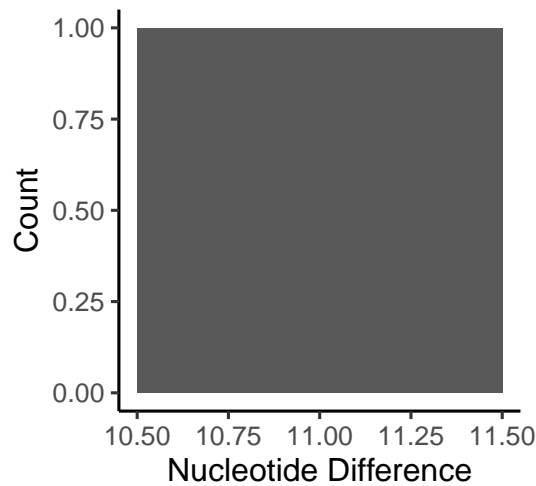
IGHV4-31*03

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



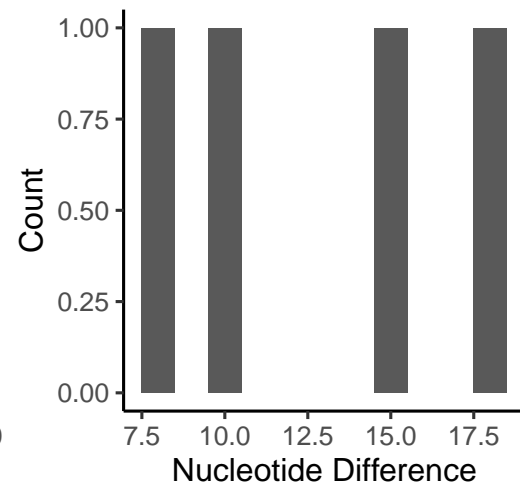
IGHV4-38-2*01

1 sequences assigned
No exact matches.



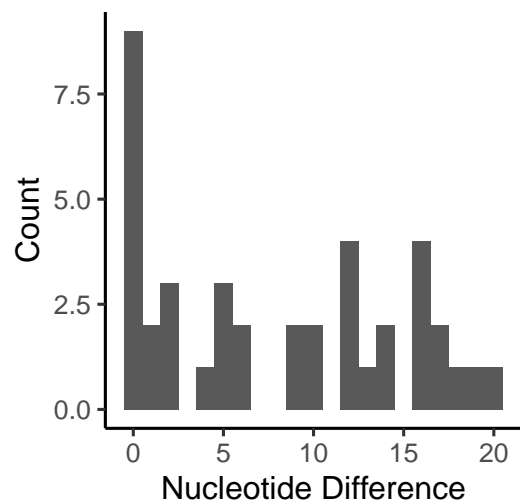
IGHV4-39*02

4 sequences assigned
No exact matches.



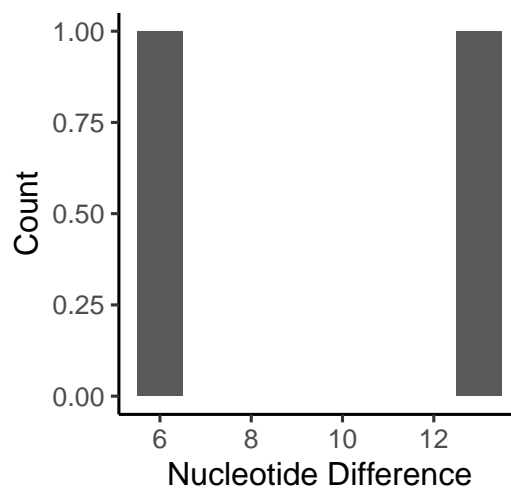
IGHV4-34*01

51 sequences assigned
9 (17.6%) exact matches, in which:
9 unique CDR3
4 unique J



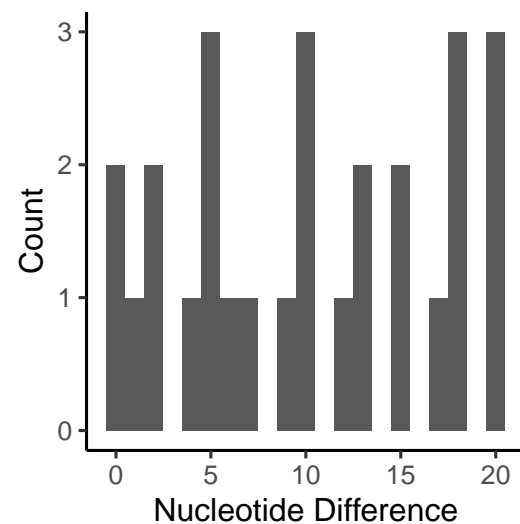
IGHV4-38-2*02

2 sequences assigned
No exact matches.



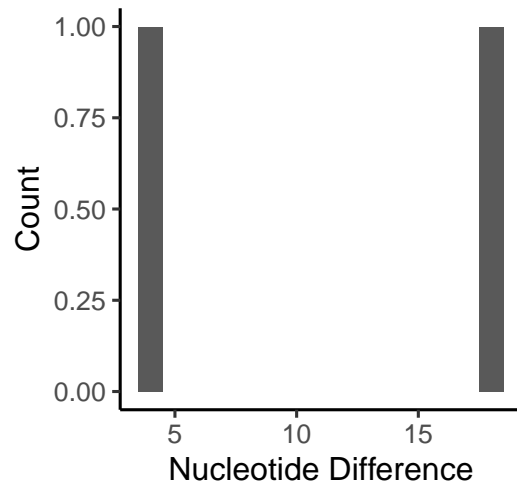
IGHV4-59*01

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



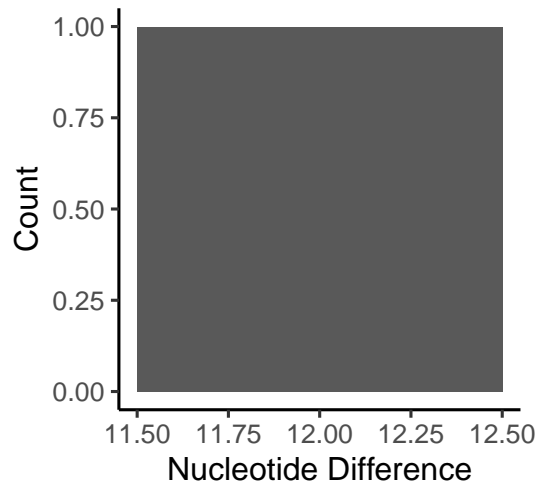
IGHV4-61*01

3 sequences assigned
No exact matches.



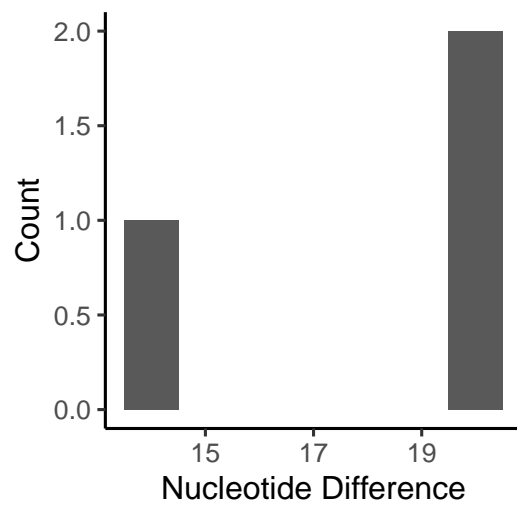
IGHV5-51*03

1 sequences assigned
No exact matches.



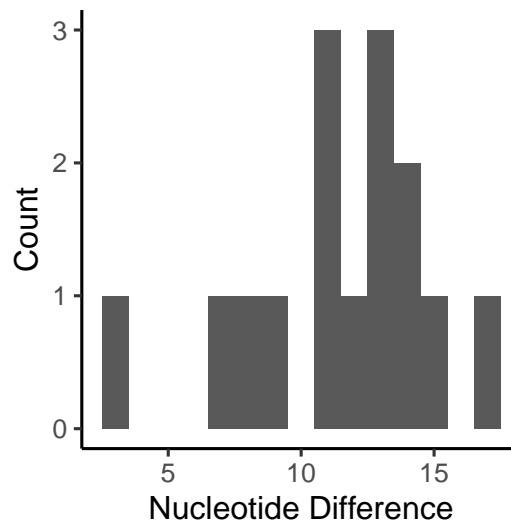
IGHV4-61*02

11 sequences assigned
No exact matches.



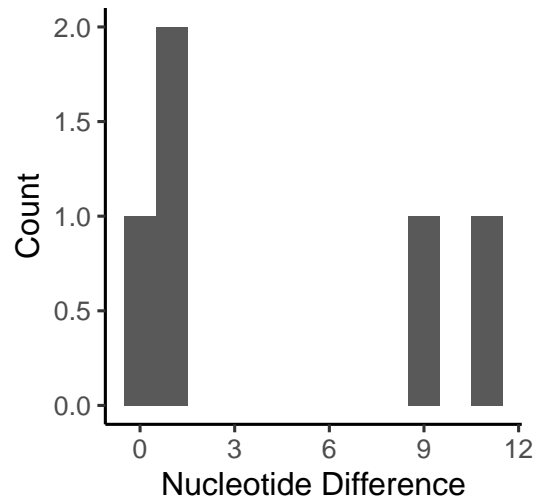
IGHV6-1*01

15 sequences assigned
No exact matches.



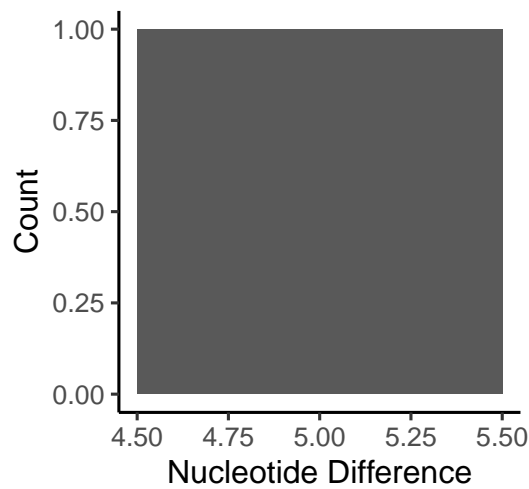
IGHV5-51*01

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

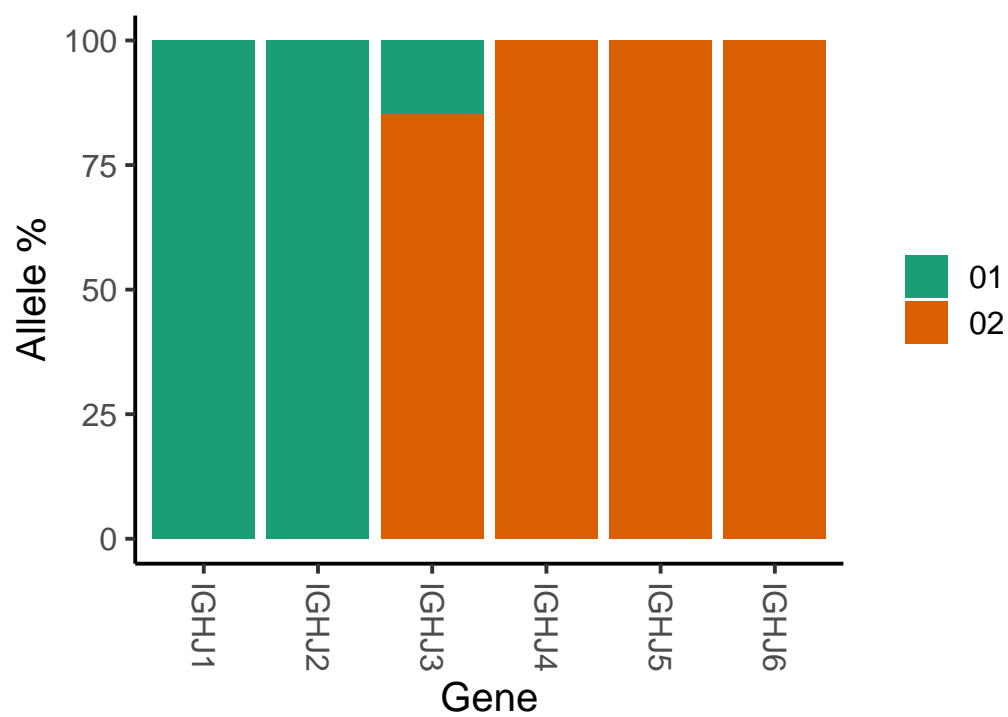


IGHV7-4-1*02

2 sequences assigned
No exact matches.



Allele Usage



Warning – no inferred sequences found.