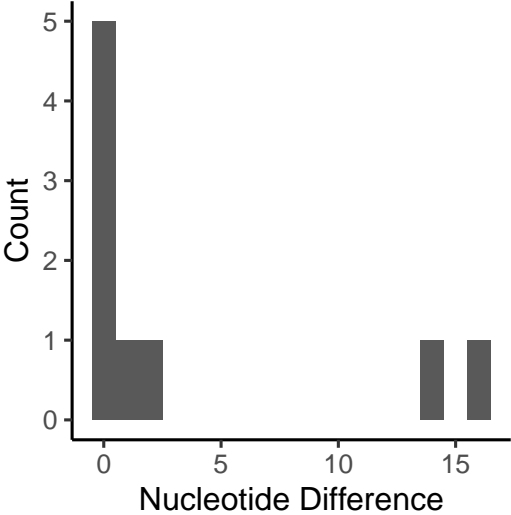


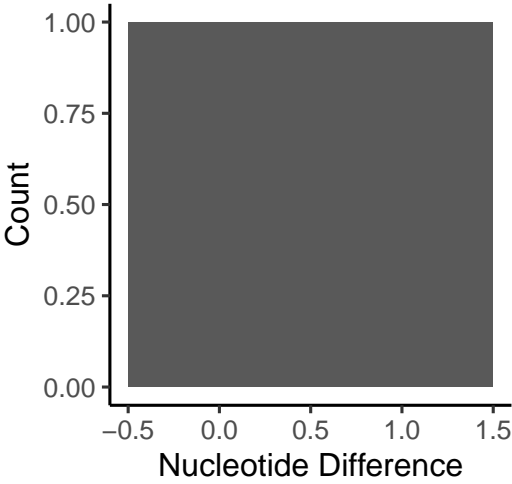
IGHV1-2*02

9 sequences assigned
5 (55.6%) exact matches, in which:
5 unique CDR3
4 unique J



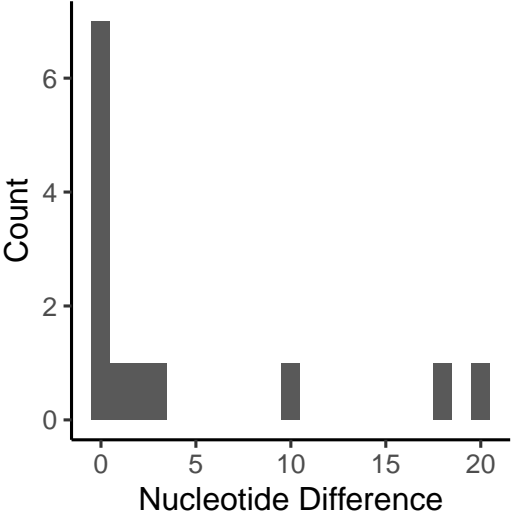
IGHV1-46*01

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



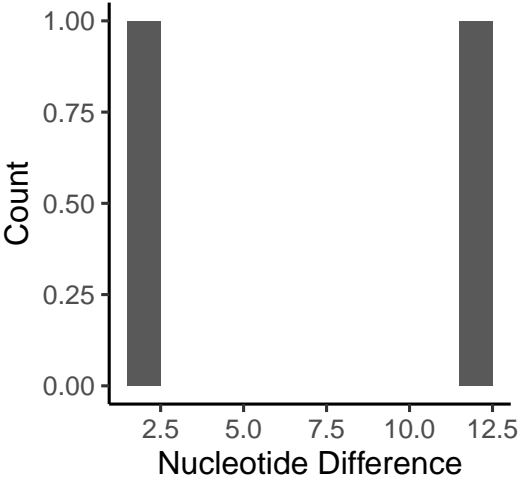
IGHV1-69*12

14 sequences assigned
7 (50%) exact matches, in which:
7 unique CDR3
2 unique J



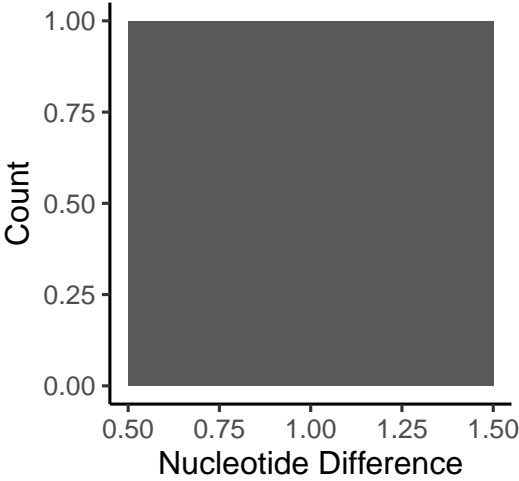
IGHV1-8*02

3 sequences assigned
No exact matches.



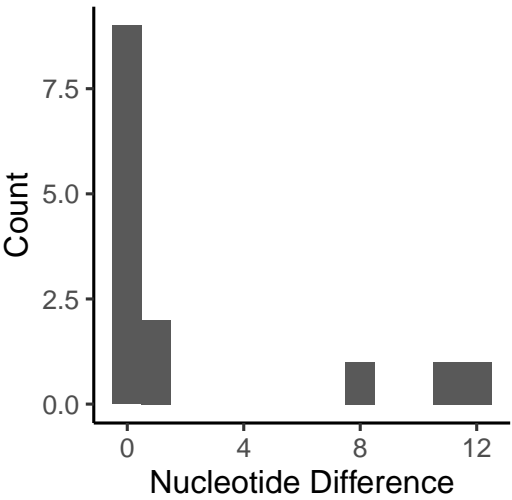
IGHV1-69-2*01

3 sequences assigned
No exact matches.



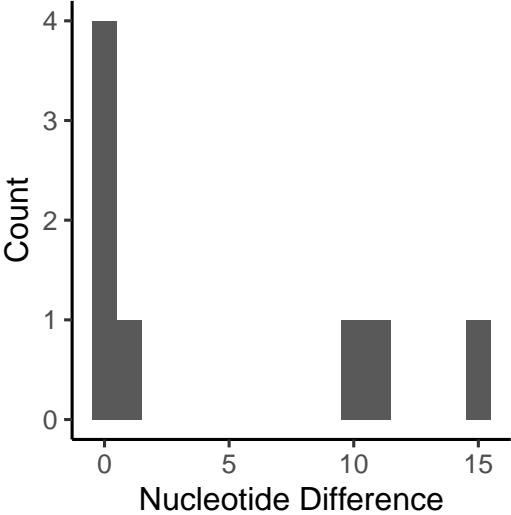
IGHV1-69*15

18 sequences assigned
9 (50%) exact matches, in which:
9 unique CDR3
4 unique J



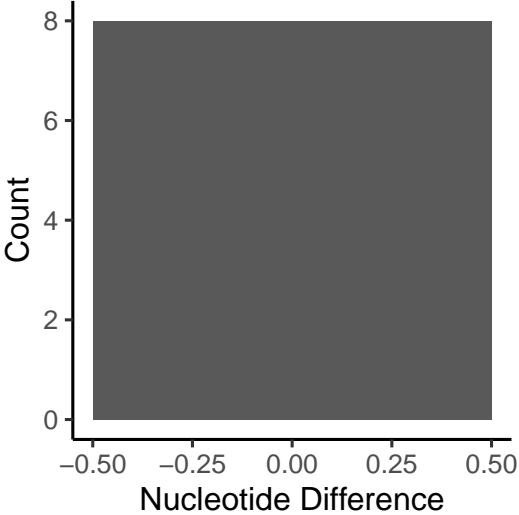
IGHV1-18*01

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



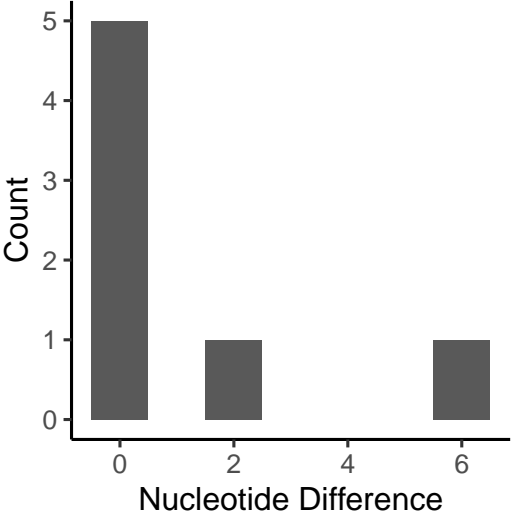
IGHV1-69*05

11 sequences assigned
8 (72.7%) exact matches, in which:
8 unique CDR3
3 unique J



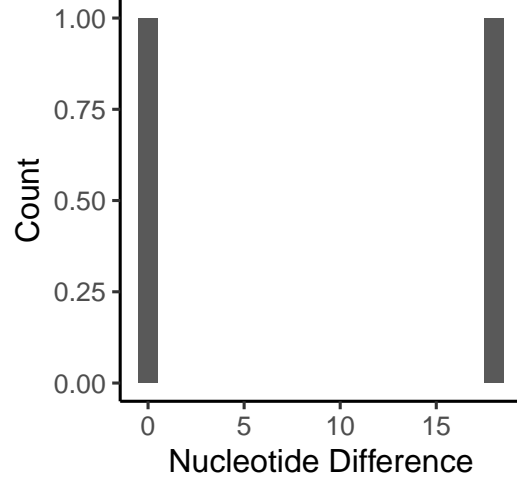
IGHV2-5*02

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



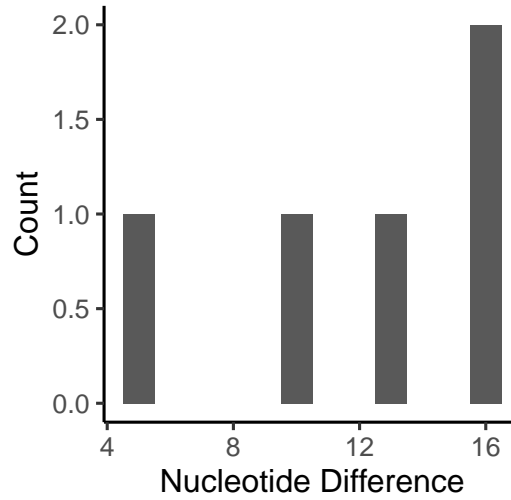
IGHV2–26*01

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



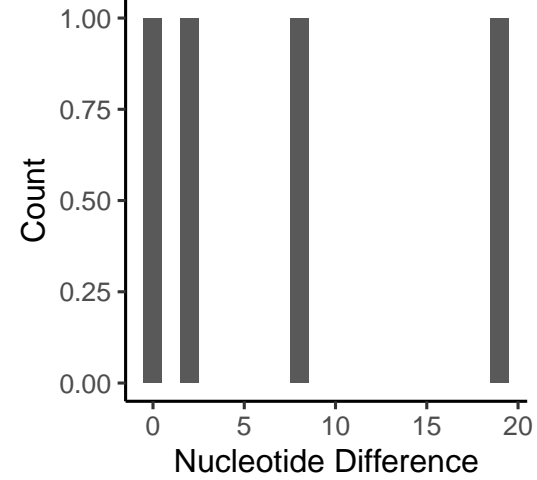
IGHV3–7*05

5 sequences assigned
No exact matches.



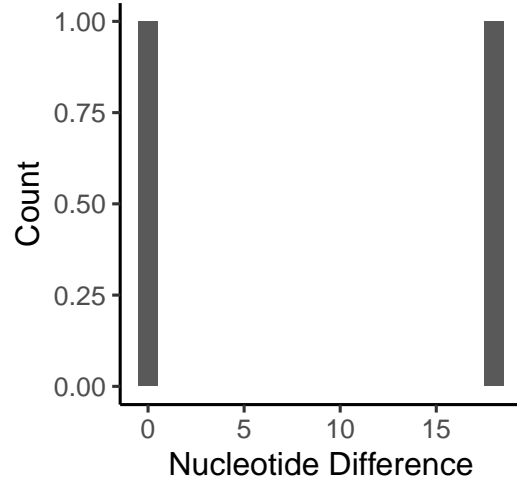
IGHV3–11*05

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



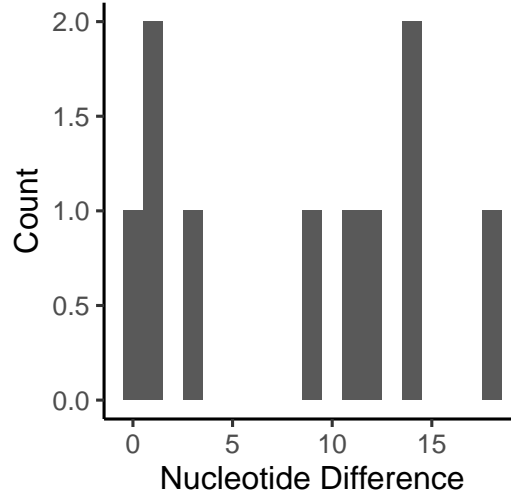
IGHV2–70*15

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



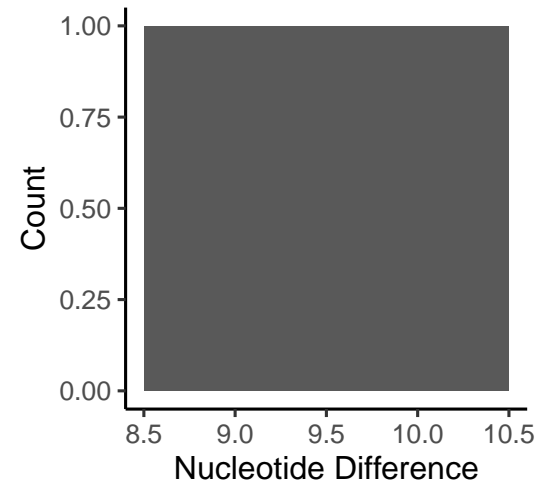
IGHV3–9*01

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



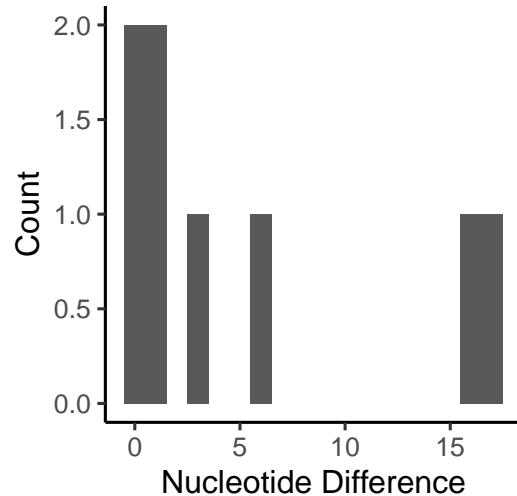
IGHV3–13*01

3 sequences assigned
No exact matches.



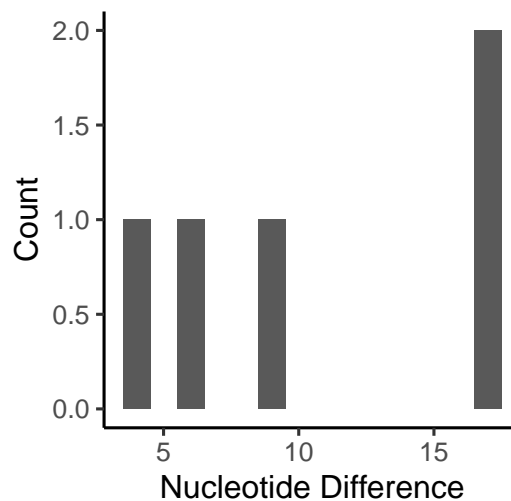
IGHV3–7*04

9 sequences assigned
2 (22.2%) exact matches, in which:
2 unique CDR3
2 unique J



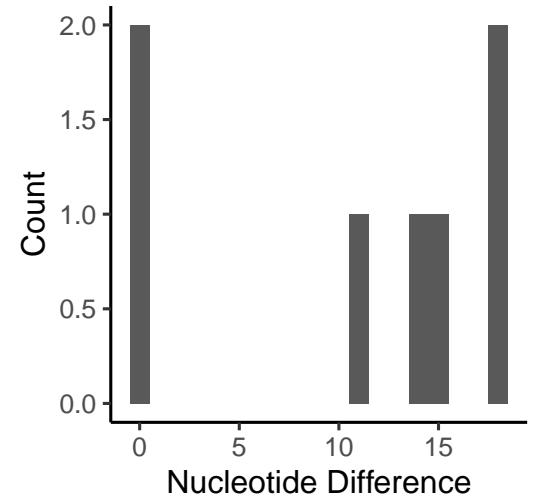
IGHV3–11*04

5 sequences assigned
No exact matches.



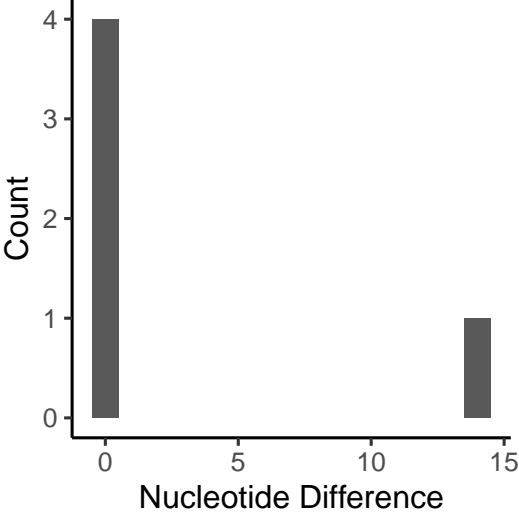
IGHV3–15*01

9 sequences assigned
2 (22.2%) exact matches, in which:
2 unique CDR3
1 unique J



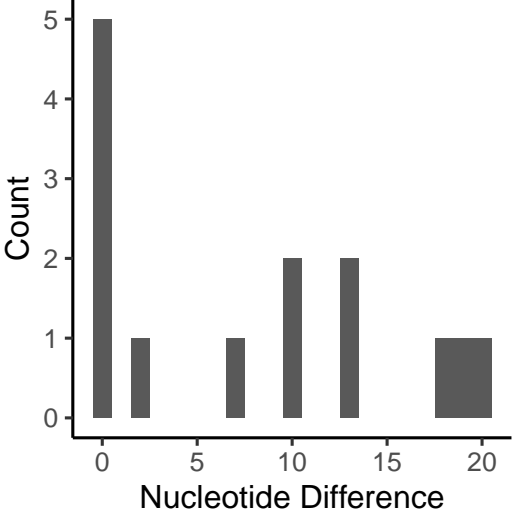
IGHV3-20*04

5 sequences assigned
4 (80%) exact matches, in which:
4 unique CDR3
3 unique J



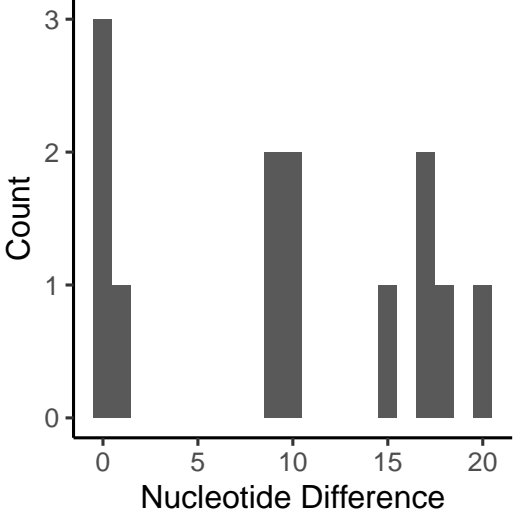
IGHV3-33*01

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



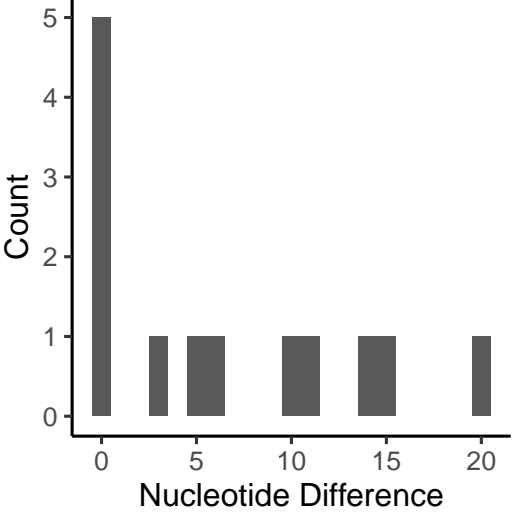
IGHV3-48*01

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



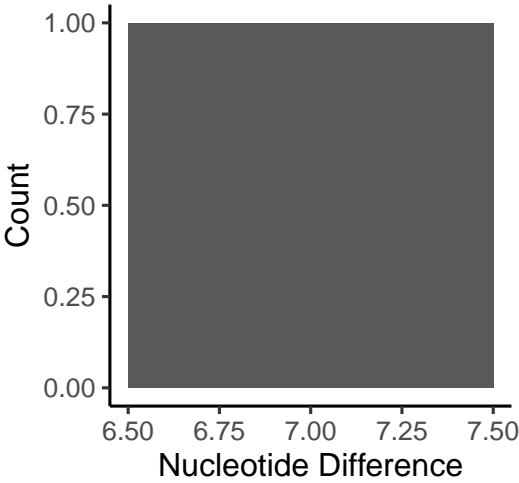
IGHV3-21*01

16 sequences assigned
5 (31.2%) exact matches, in which:
5 unique CDR3
2 unique J



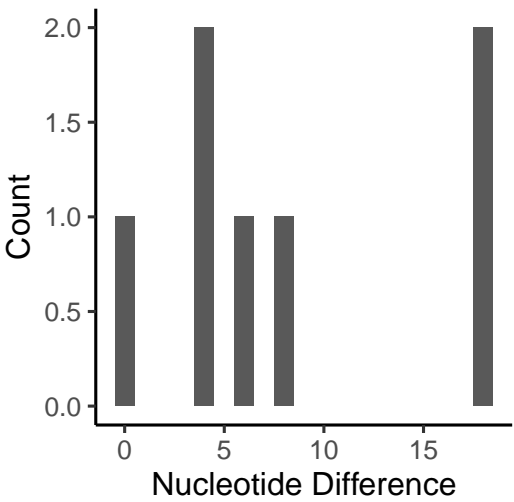
IGHV3-33*03

2 sequences assigned
No exact matches.



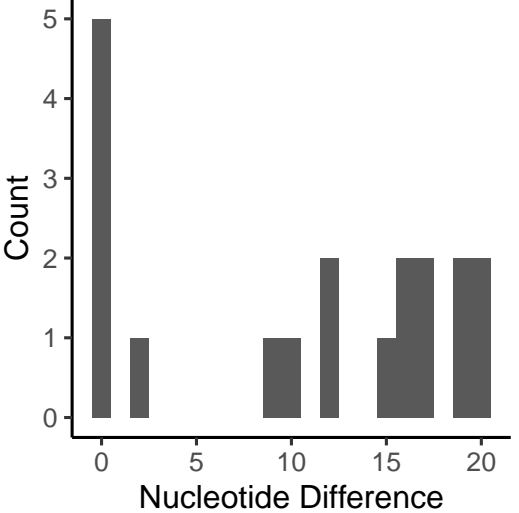
IGHV3-48*04

8 sequences assigned
1 (12.5%) exact matches, in which:
1 unique CDR3
1 unique J



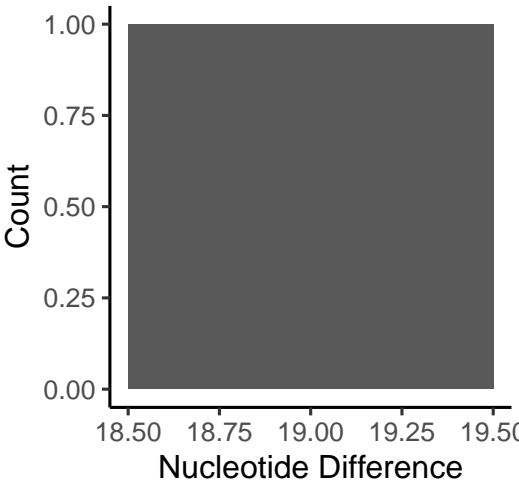
IGHV3-23*04

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



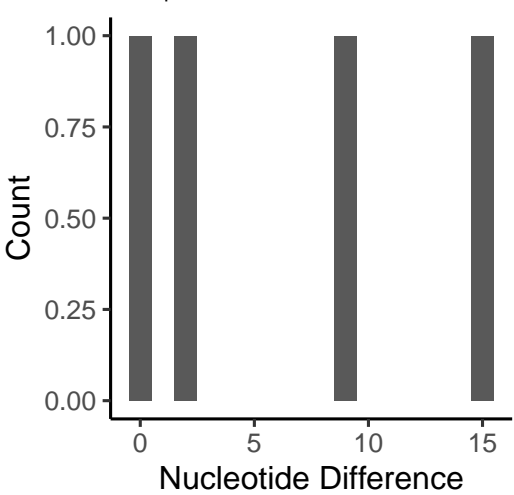
IGHV3-43*01

6 sequences assigned
No exact matches.



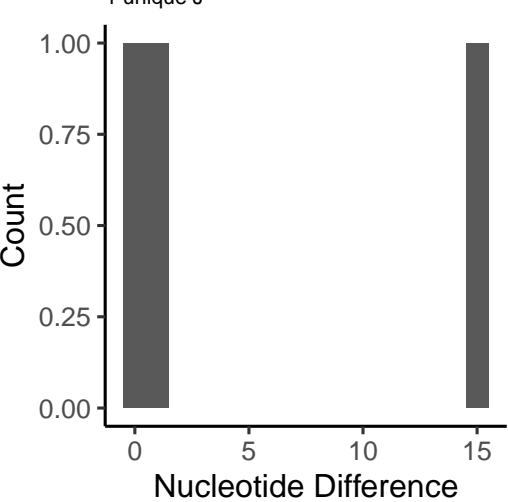
IGHV3-49*04

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



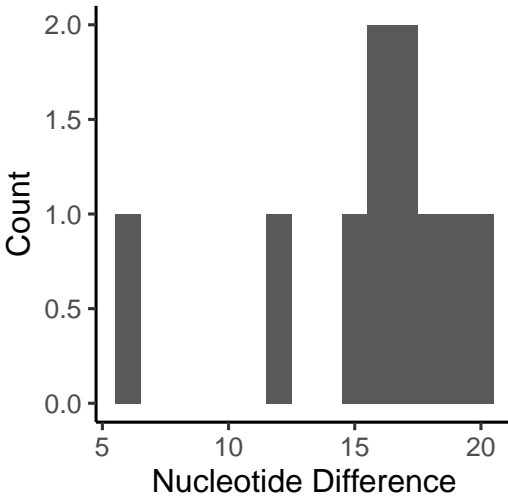
IGHV3-53*02

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



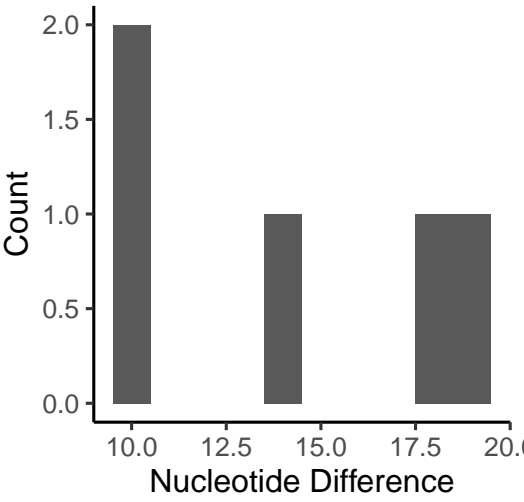
IGHV3-72*01

10 sequences assigned
No exact matches.



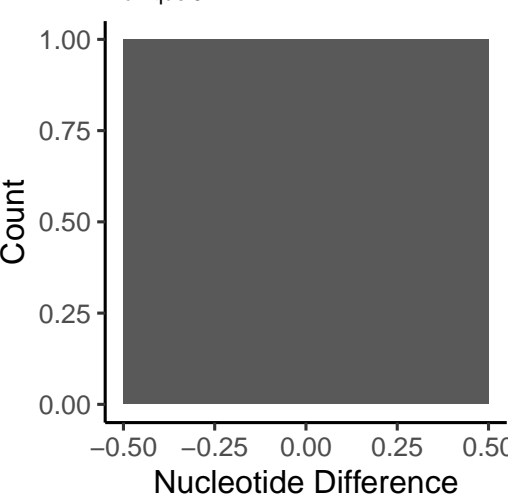
IGHV3-74*01

5 sequences assigned
No exact matches.



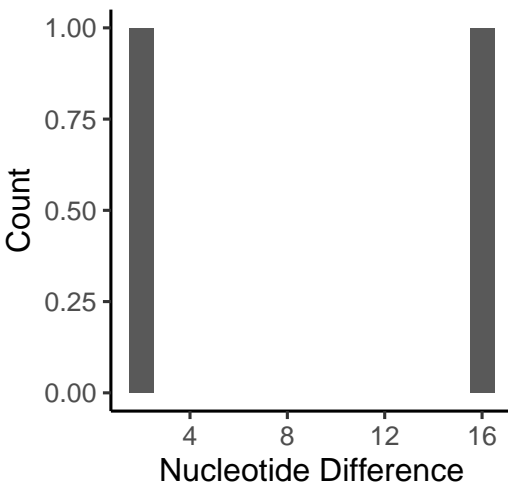
IGHV3-64*01

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



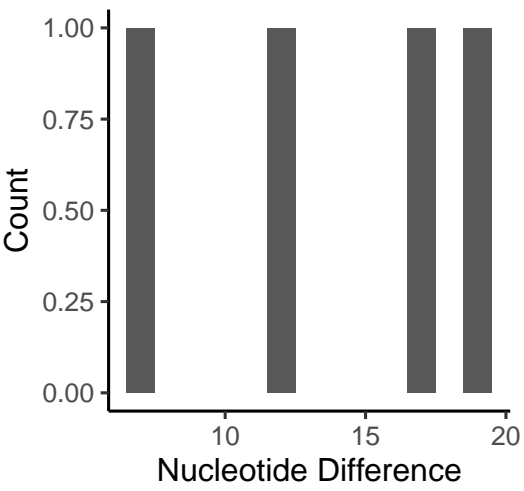
IGHV3-73*01

3 sequences assigned
No exact matches.



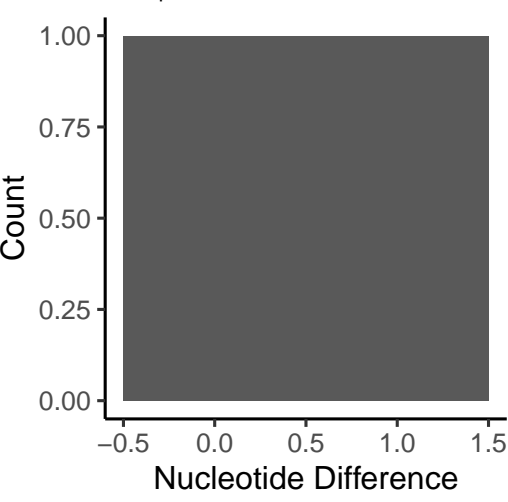
IGHV3-74*02

11 sequences assigned
No exact matches.



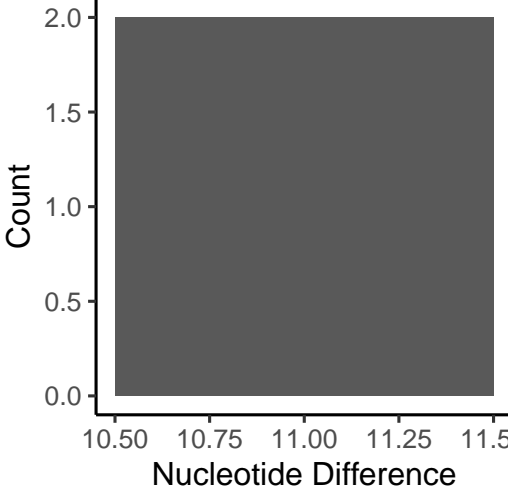
IGHV3-66*02

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



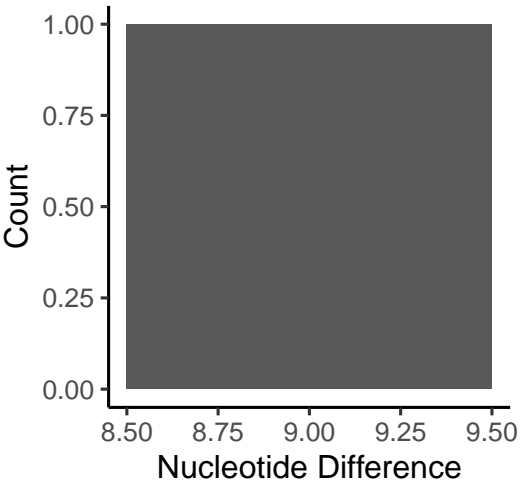
IGHV3-73*02

2 sequences assigned
No exact matches.



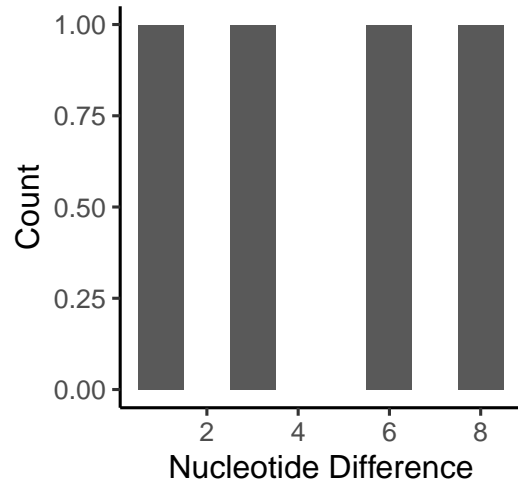
IGHV3-64D*09

1 sequences assigned
No exact matches.



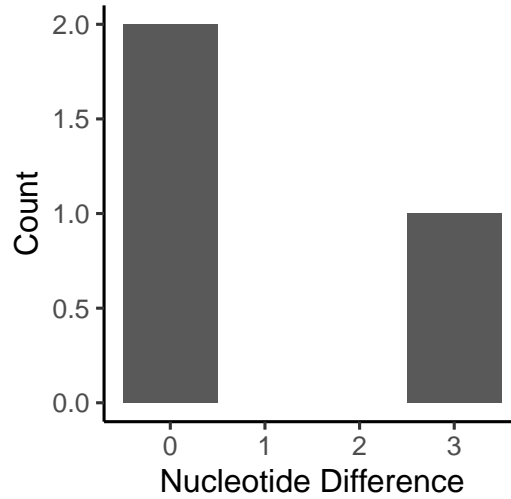
IGHV4-4*02

4 sequences assigned
No exact matches.



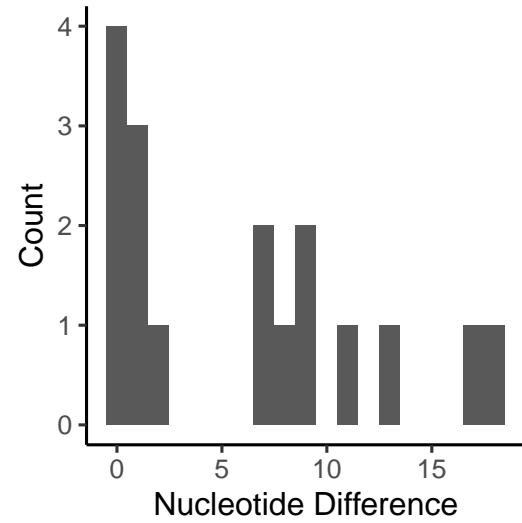
IGHV4-31*03

3 sequences assigned
2 (66.7%) exact matches, in which:
2 unique CDR3
2 unique J



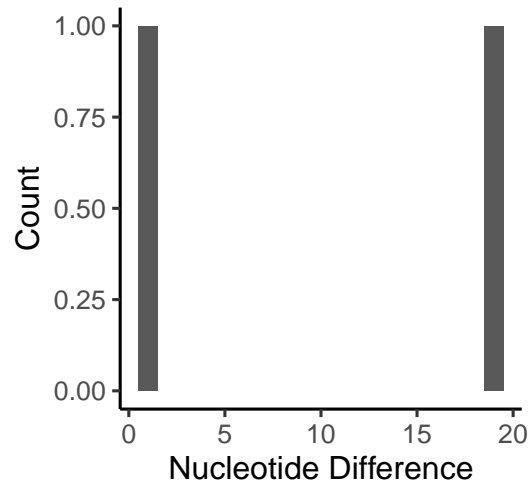
IGHV4-39*01

26 sequences assigned
4 (15.4%) exact matches, in which:
4 unique CDR3
3 unique J



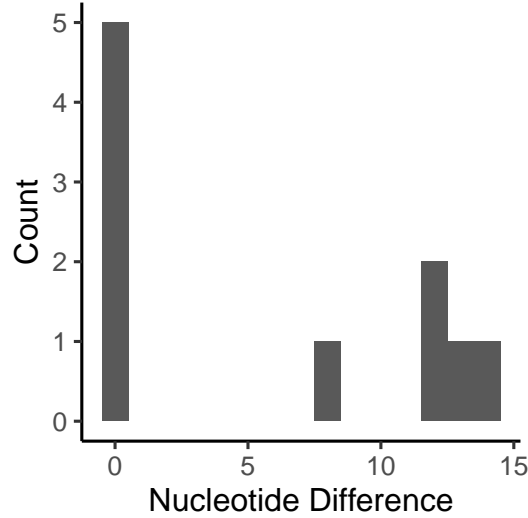
IGHV4-4*07

3 sequences assigned
No exact matches.



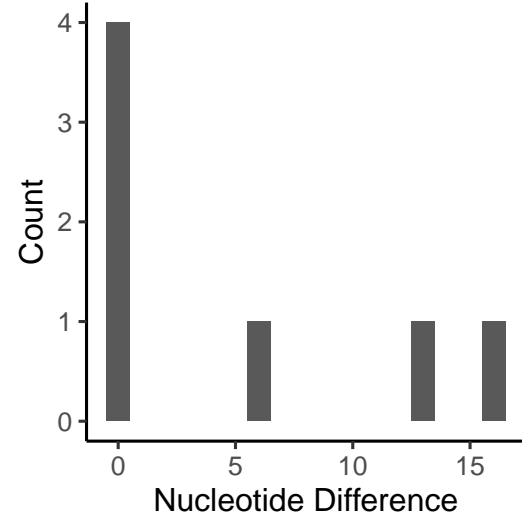
IGHV4-34*01

11 sequences assigned
5 (45.5%) exact matches, in which:
5 unique CDR3
3 unique J



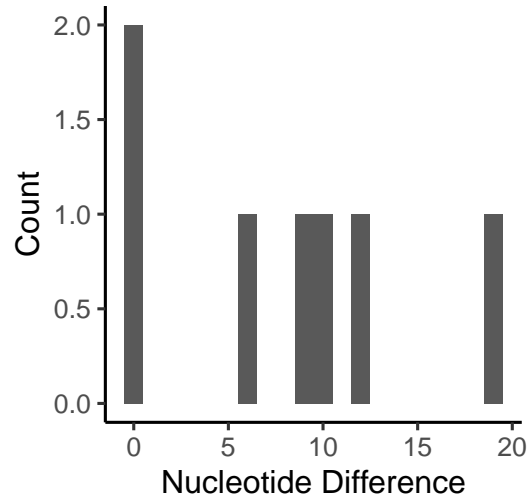
IGHV4-59*01

10 sequences assigned
4 (40%) exact matches, in which:
4 unique CDR3
2 unique J



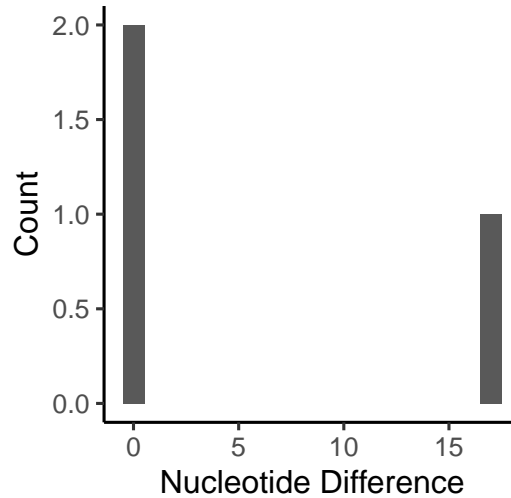
IGHV4-4*09

9 sequences assigned
2 (22.2%) exact matches, in which:
2 unique CDR3
2 unique J



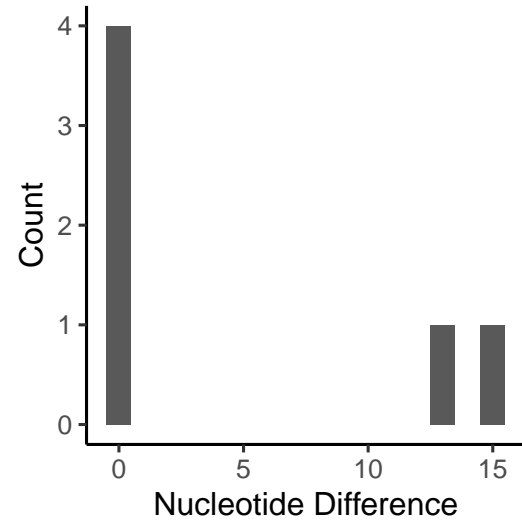
IGHV4-38-2*01

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



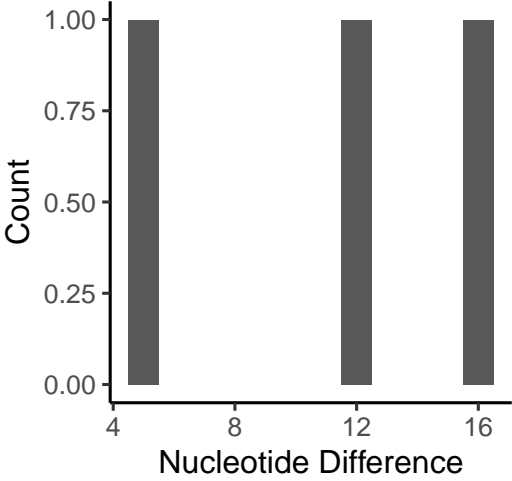
IGHV4-59*11

11 sequences assigned
4 (36.4%) exact matches, in which:
4 unique CDR3
3 unique J



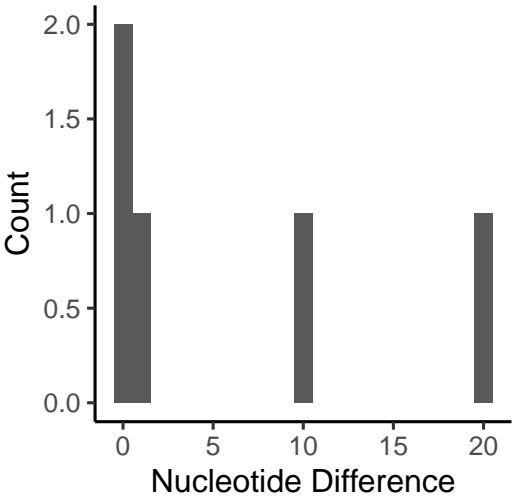
IGHV4-61*02

7 sequences assigned
No exact matches.



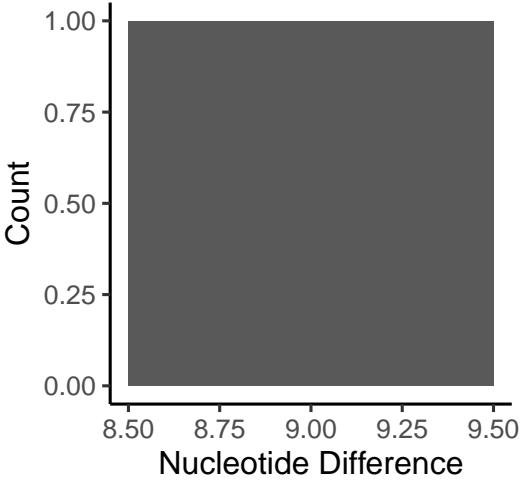
IGHV5-51*03

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



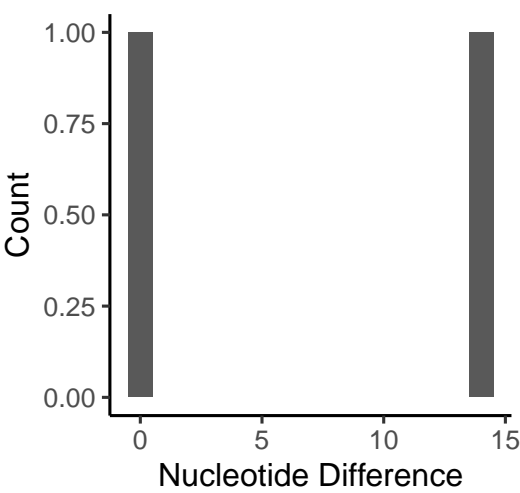
IGHV5-10-1*01

4 sequences assigned
No exact matches.



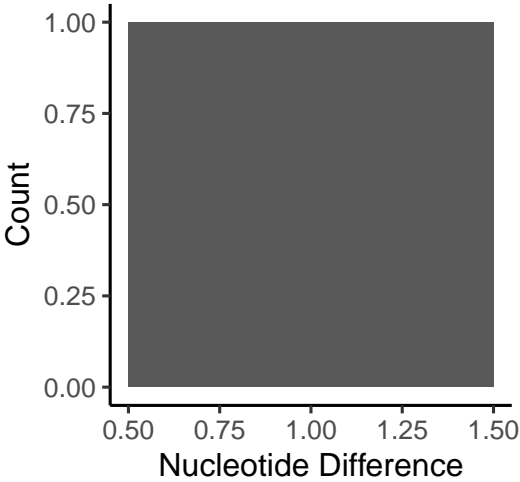
IGHV6-1*01

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



IGHV5-51*01

1 sequences assigned
No exact matches.





[illegible]