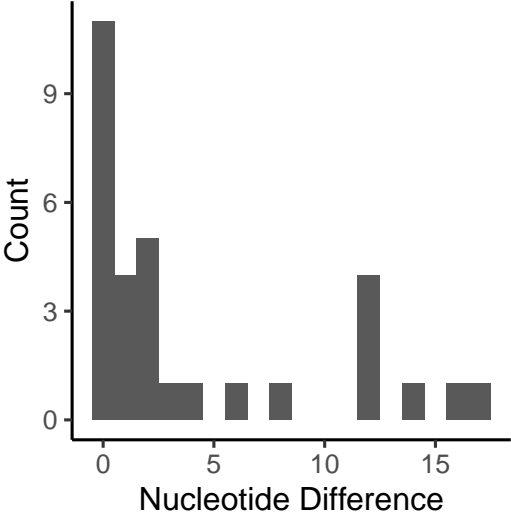


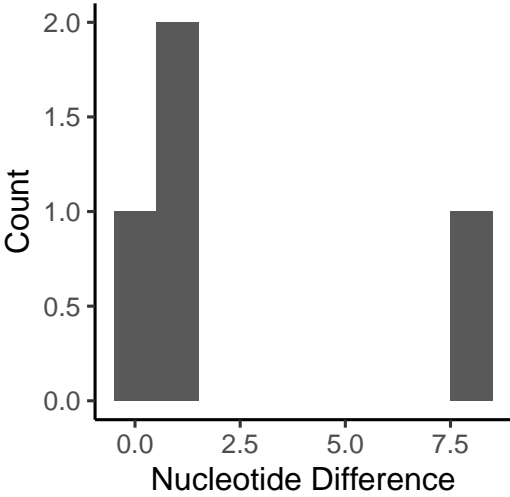
IGHV1-2*02

31 sequences assigned
11 (35.5%) exact matches, in which:
11 unique CDR3
4 unique J



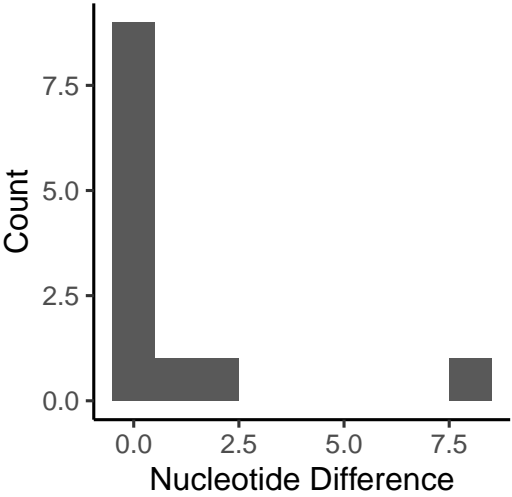
IGHV1-8*01

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



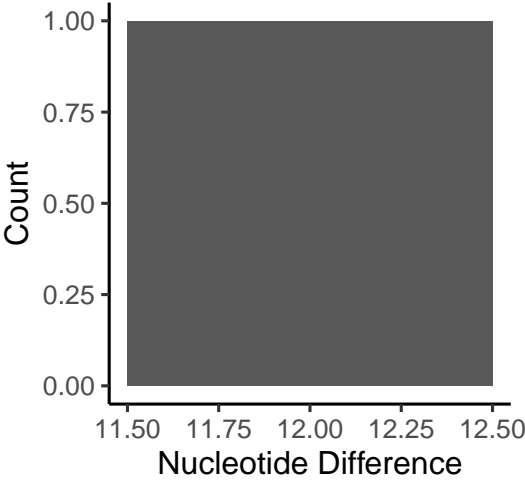
IGHV1-46*03

12 sequences assigned
9 (75%) exact matches, in which:
9 unique CDR3
4 unique J



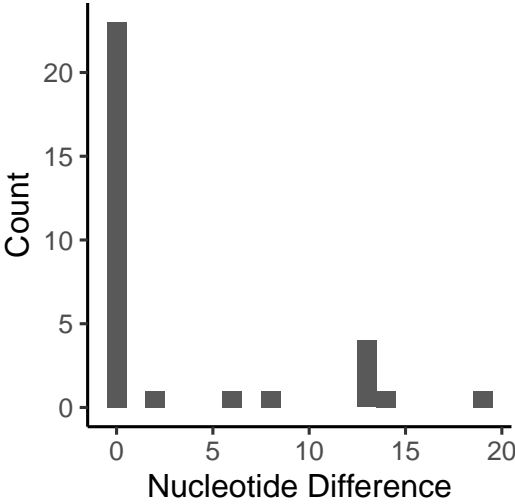
IGHV1-3*04

1 sequences assigned
No exact matches.



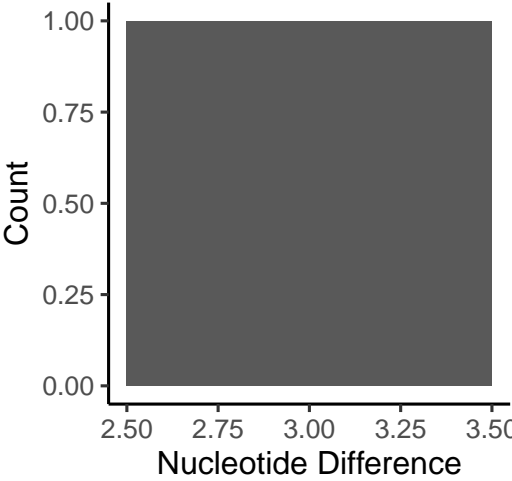
IGHV1-18*01

34 sequences assigned
23 (67.6%) exact matches, in which:
23 unique CDR3
4 unique J



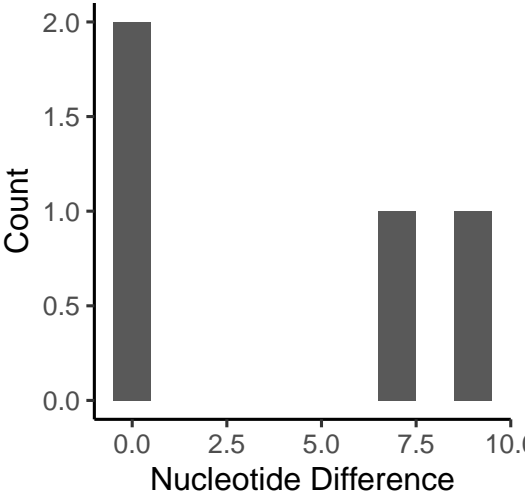
IGHV1-58*01_03

1 sequences assigned
No exact matches.



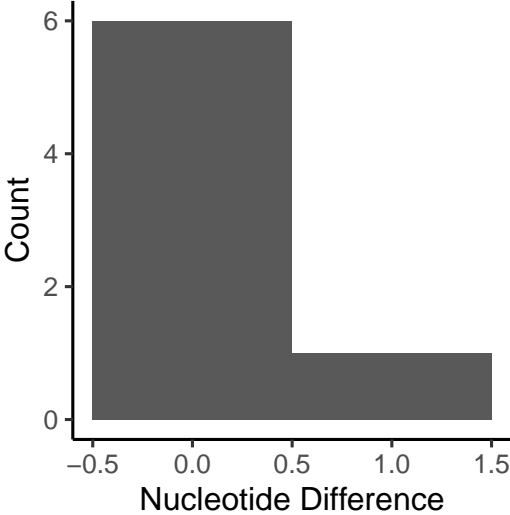
IGHV1-3*01_05

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



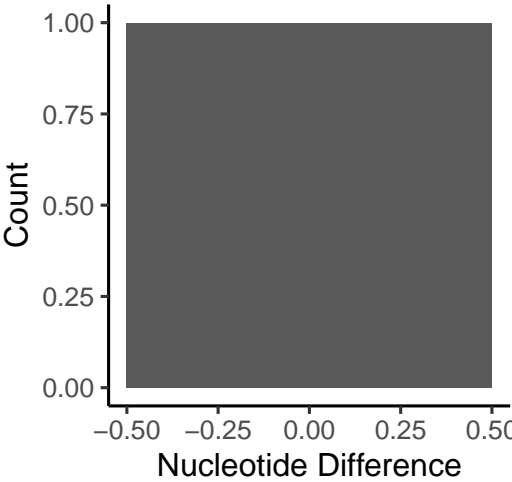
IGHV1-24*01

7 sequences assigned
6 (85.7%) exact matches, in which:
6 unique CDR3
2 unique J



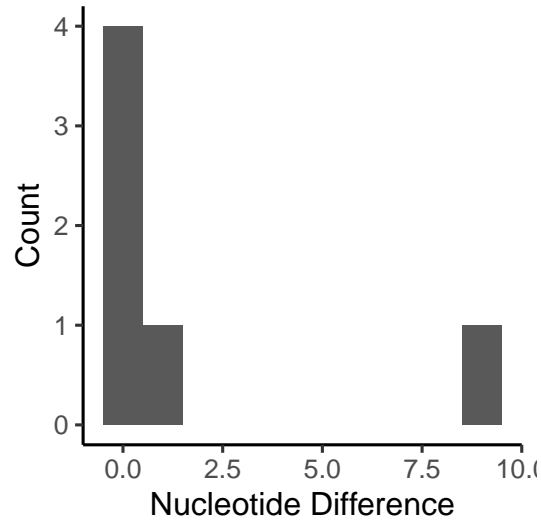
IGHV1-69-2*01

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



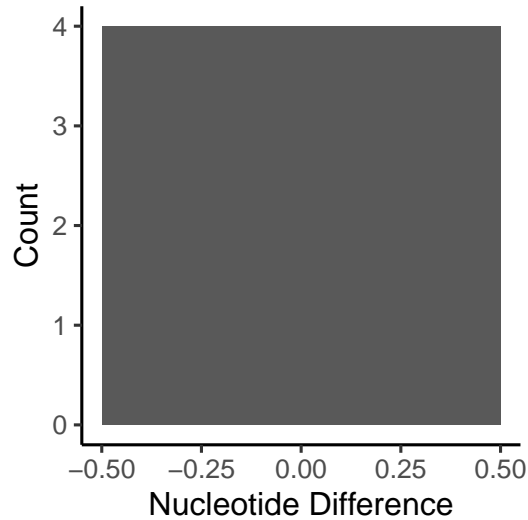
IGHV1-69*02

6 sequences assigned
4 (66.7%) exact matches, in which:
4 unique CDR3
3 unique J



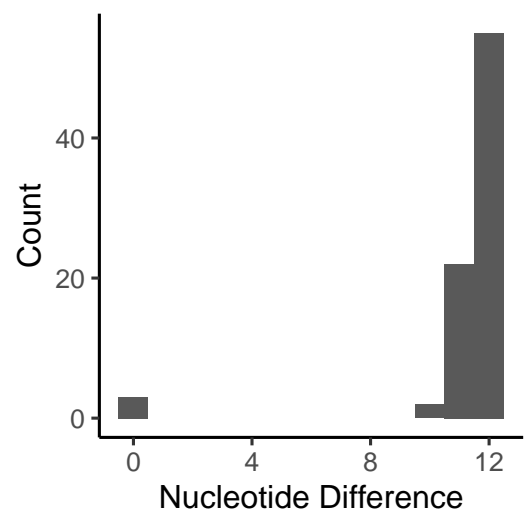
IGHV2-5*02

4 sequences assigned
4 (100%) exact matches, in which:
4 unique CDR3
1 unique J



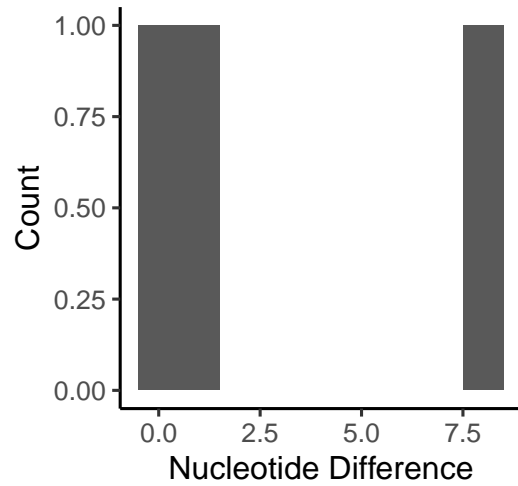
IGHV3-7*04

82 sequences assigned
3 (3.7%) exact matches, in which:
3 unique CDR3
2 unique J



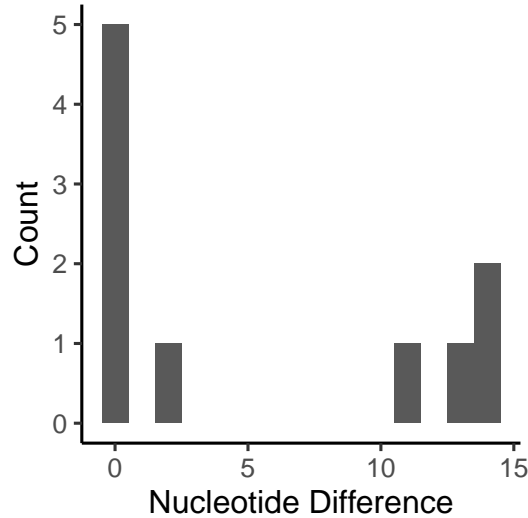
IGHV1-69*01_12_13

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



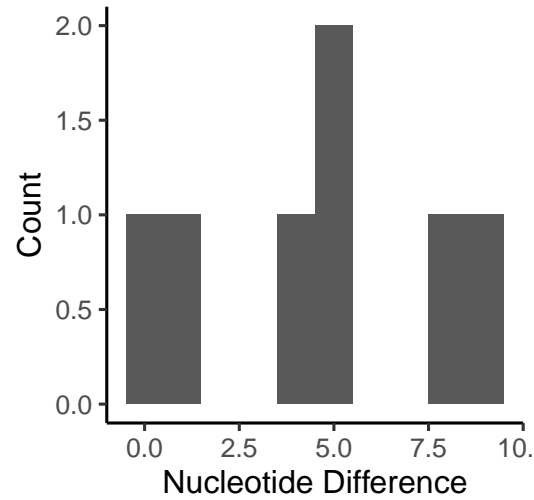
IGHV3-7*01

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



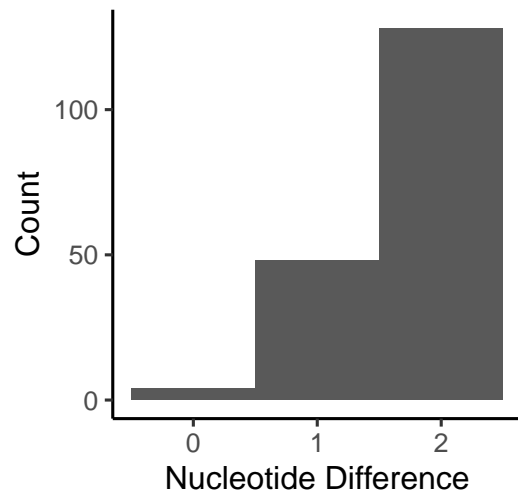
IGHV3-9*01

7 sequences assigned
1 (14.3%) exact matches, in which:
1 unique CDR3
1 unique J



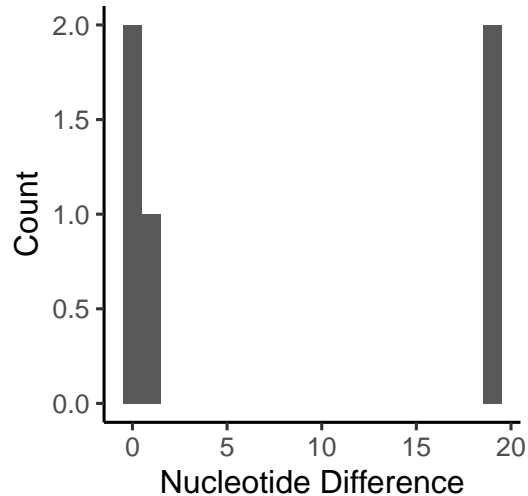
IGHV1-69*04_09

180 sequences assigned
4 (2.2%) exact matches, in which:
4 unique CDR3
3 unique J



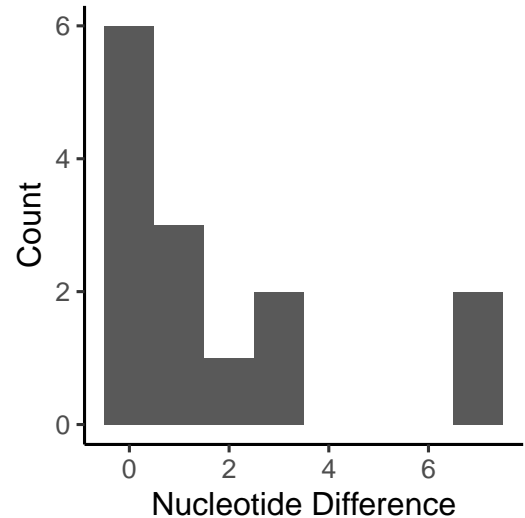
IGHV3-7*03

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



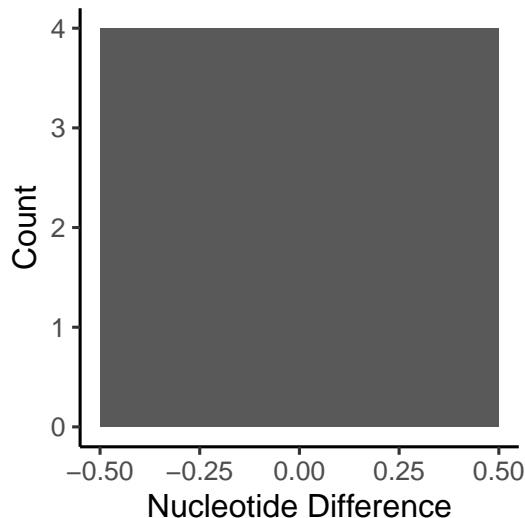
IGHV3-11*01

14 sequences assigned
6 (42.9%) exact matches, in which:
4 unique CDR3
2 unique J



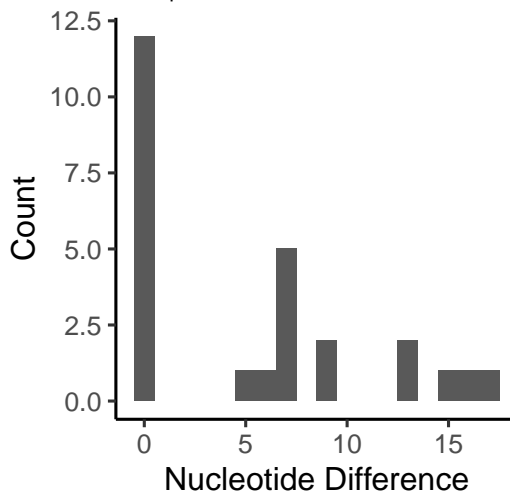
IGHV3-11*06

4 sequences assigned
4 (100%) exact matches, in which:
3 unique CDR3
2 unique J



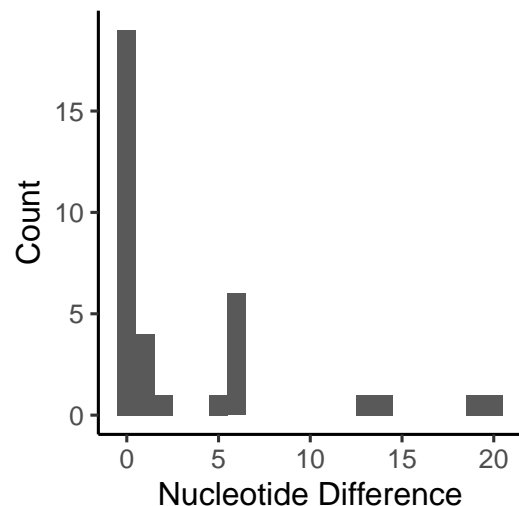
IGHV3-21*01_02

26 sequences assigned
12 (46.2%) exact matches, in which:
7 unique CDR3
2 unique J



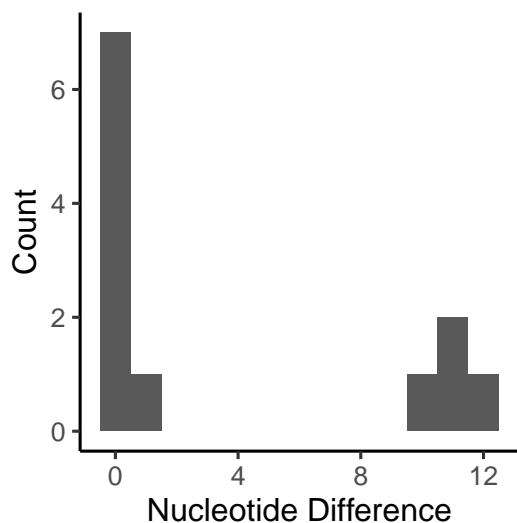
IGHV3-33*01

38 sequences assigned
19 (50%) exact matches, in which:
15 unique CDR3
3 unique J



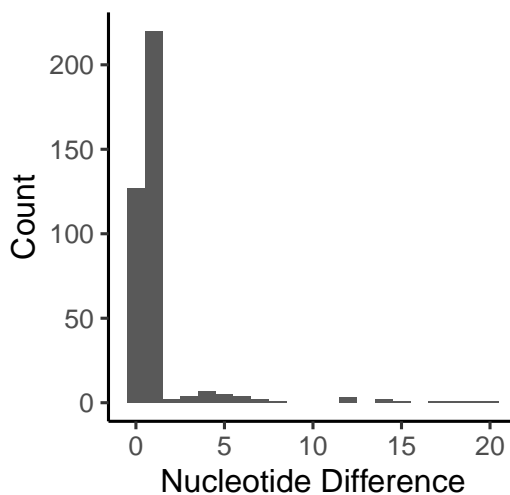
IGHV3-15*01_02

13 sequences assigned
7 (53.8%) exact matches, in which:
5 unique CDR3
2 unique J



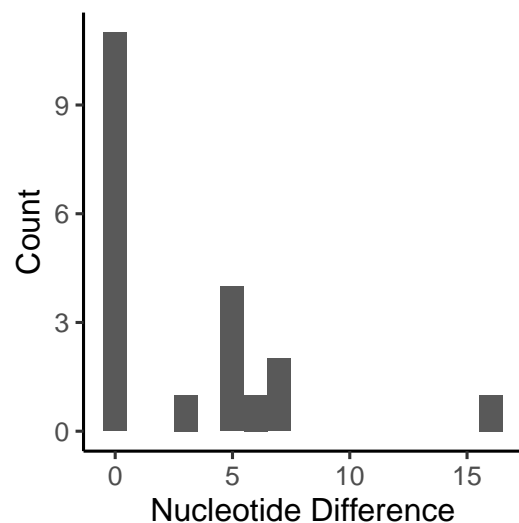
IGHV3-23*01_04

398 sequences assigned
127 (31.9%) exact matches, in which:
68 unique CDR3
5 unique J



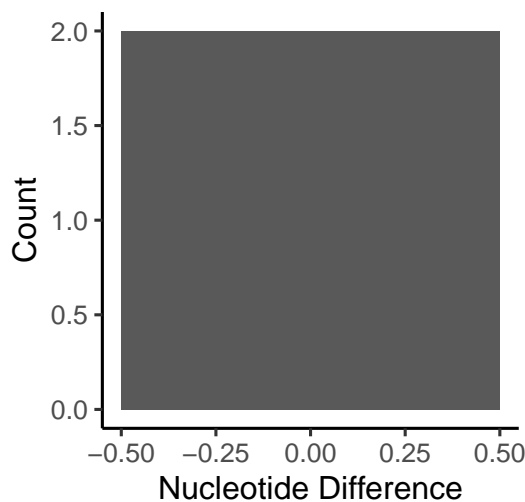
IGHV3-48*01

20 sequences assigned
11 (55%) exact matches, in which:
8 unique CDR3
5 unique J



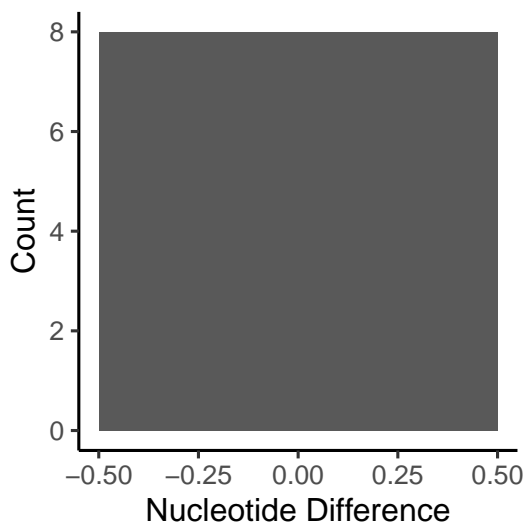
IGHV3-20*01_02

2 sequences assigned
2 (100%) exact matches, in which:
2 unique CDR3
2 unique J



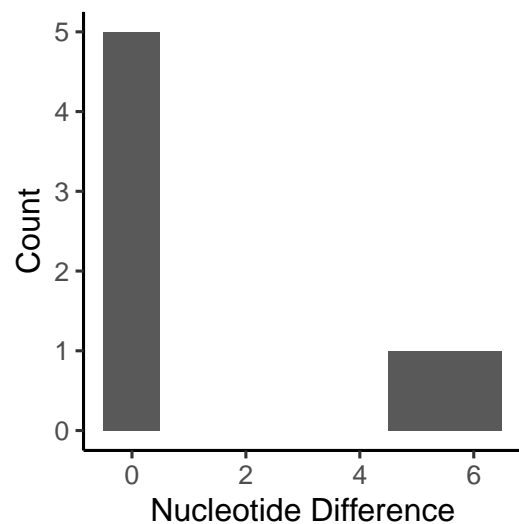
IGHV3-30-3*01

8 sequences assigned
8 (100%) exact matches, in which:
5 unique CDR3
4 unique J



IGHV3-49*03_05

7 sequences assigned
5 (71.4%) exact matches, in which:
3 unique CDR3
2 unique J



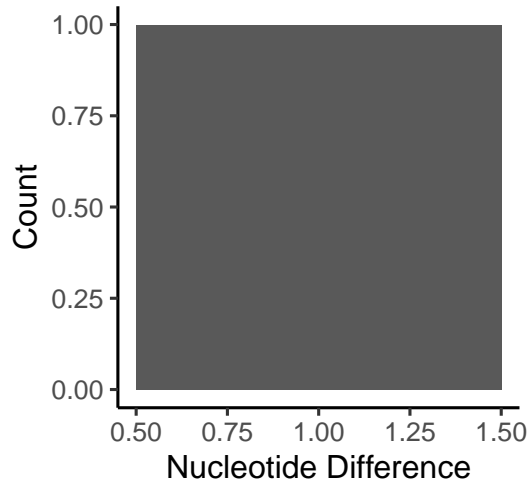
IGHV3-52*02

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



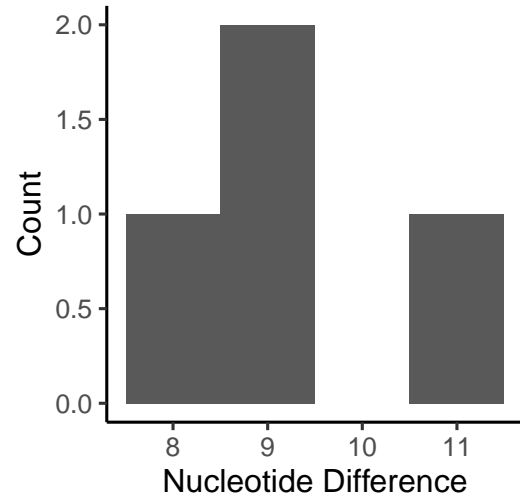
IGHV3-66*03

1 sequences assigned
No exact matches.



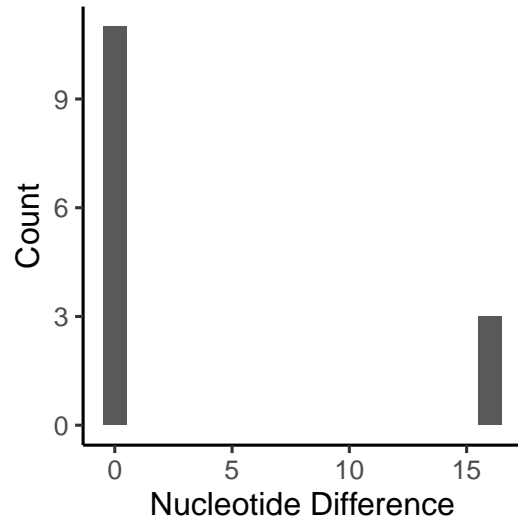
IGHV3-74*03

4 sequences assigned
No exact matches.



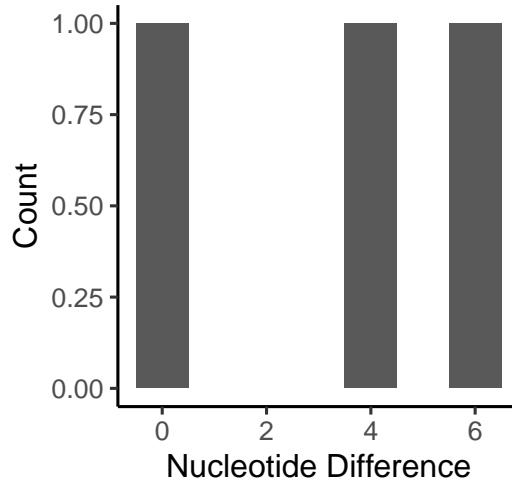
IGHV3-53*01_02

16 sequences assigned
11 (68.8%) exact matches, in which:
8 unique CDR3
4 unique J



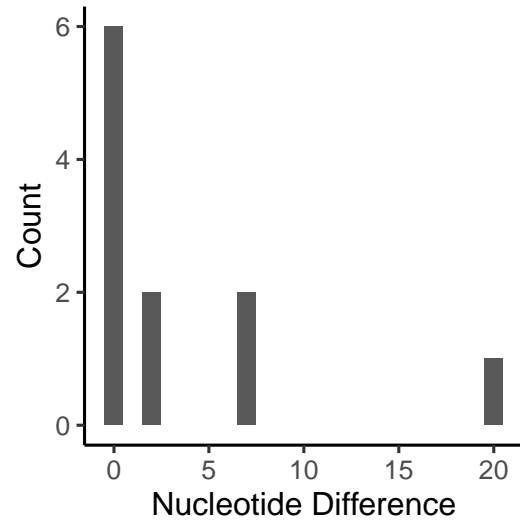
IGHV3-72*01

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



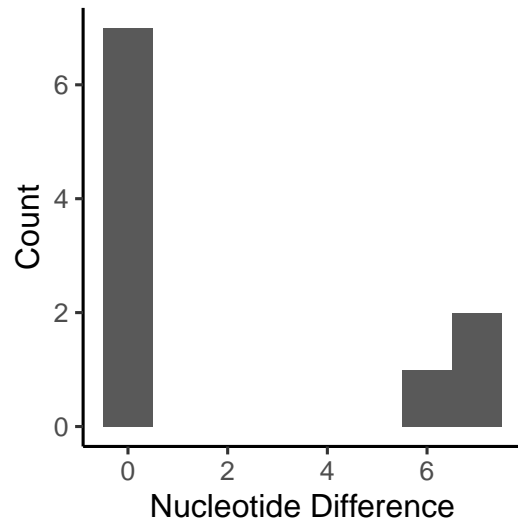
IGHV3-74*01_02

11 sequences assigned
6 (54.5%) exact matches, in which:
5 unique CDR3
2 unique J



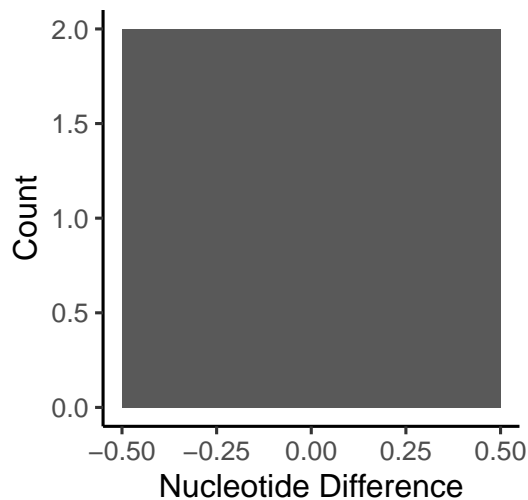
IGHV3-66*02

10 sequences assigned
7 (70%) exact matches, in which:
4 unique CDR3
2 unique J



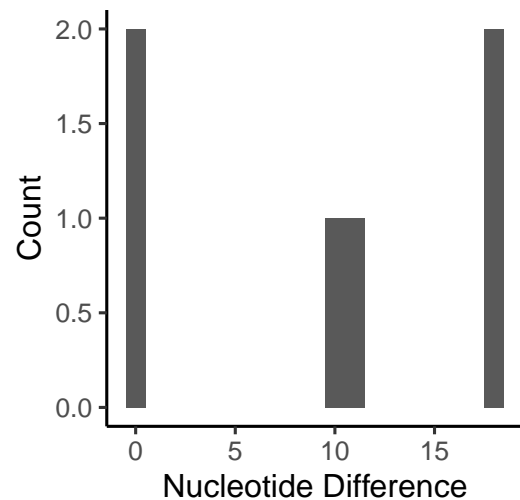
IGHV3-73*01_02

2 sequences assigned
2 (100%) exact matches, in which:
2 unique CDR3
2 unique J



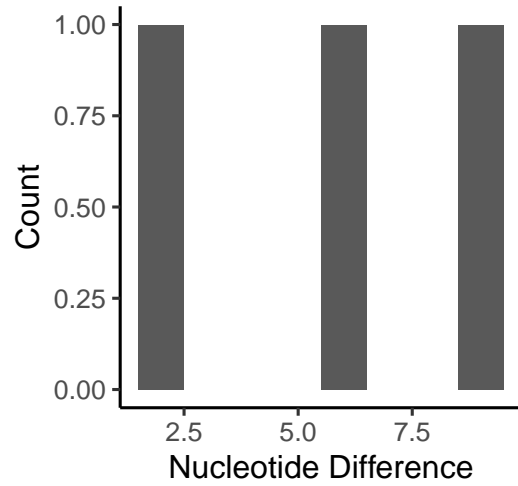
IGHV3-64D*09

6 sequences assigned
2 (33.3%) exact matches, in which:
2 unique CDR3
1 unique J



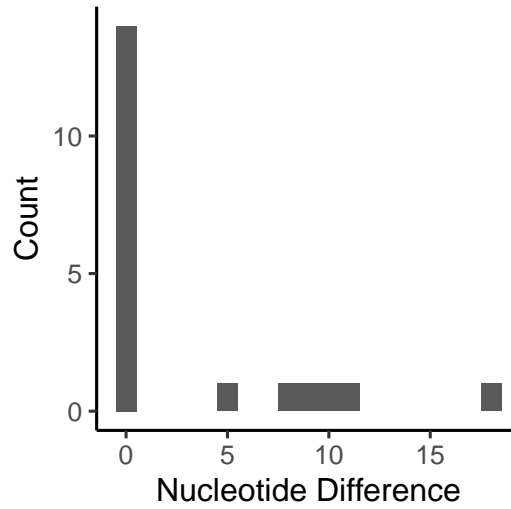
IGHV4-4*07

4 sequences assigned
No exact matches.



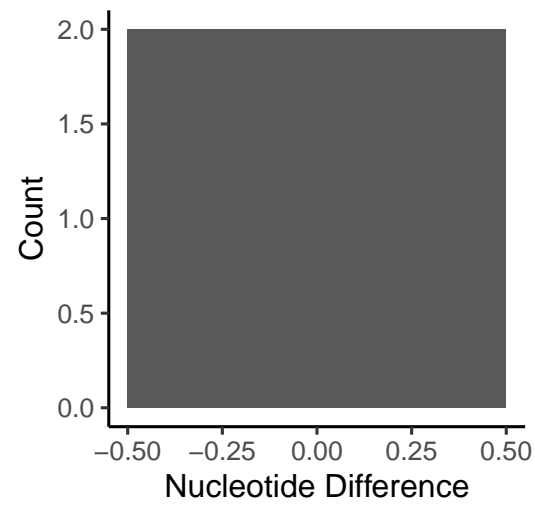
IGHV4-31*02

21 sequences assigned
14 (66.7%) exact matches, in which:
14 unique CDR3
5 unique J



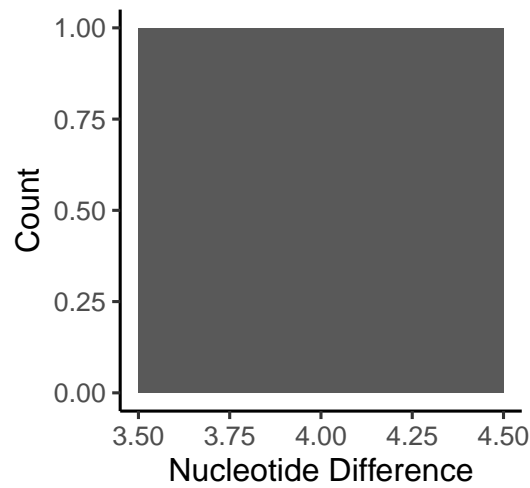
IGHV4-59*09

2 sequences assigned
2 (100%) exact matches, in which:
2 unique CDR3
1 unique J



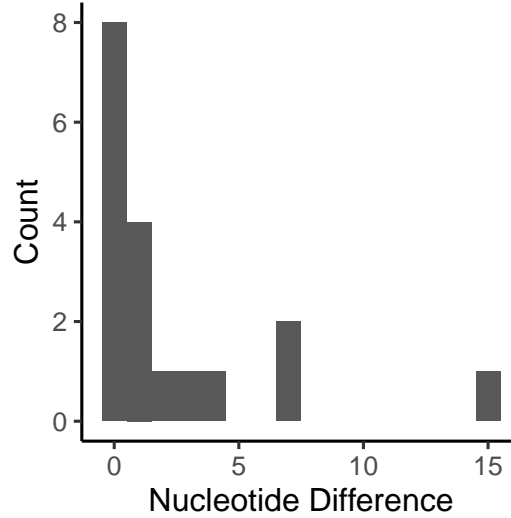
IGHV4-30-4*01

1 sequences assigned
No exact matches.



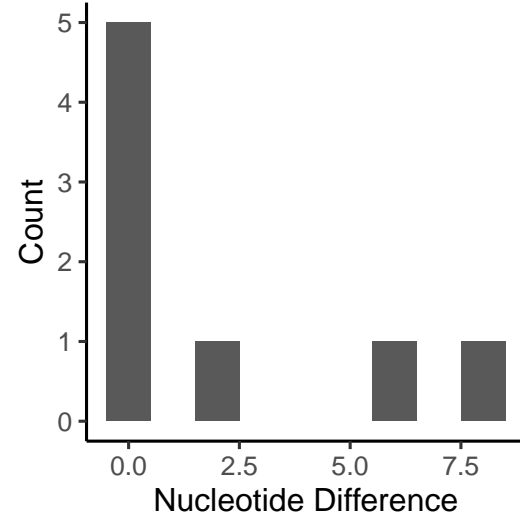
IGHV4-34*01_02

20 sequences assigned
8 (40%) exact matches, in which:
8 unique CDR3
4 unique J



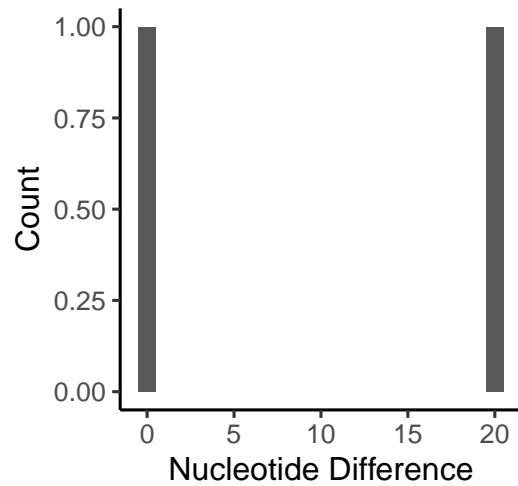
IGHV4-59*01_07

42 sequences assigned
5 (11.9%) exact matches, in which:
5 unique CDR3
2 unique J



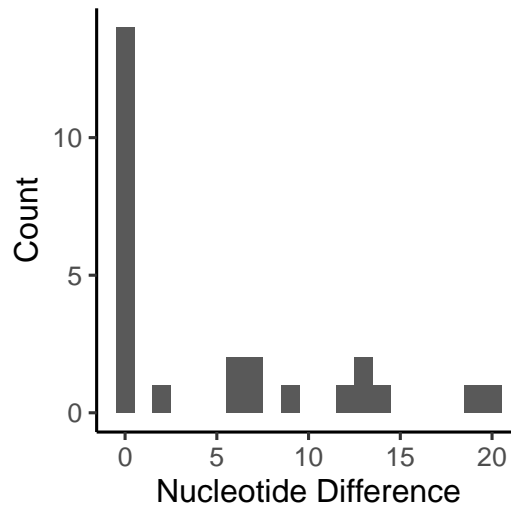
IGHV4-30-2*01

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



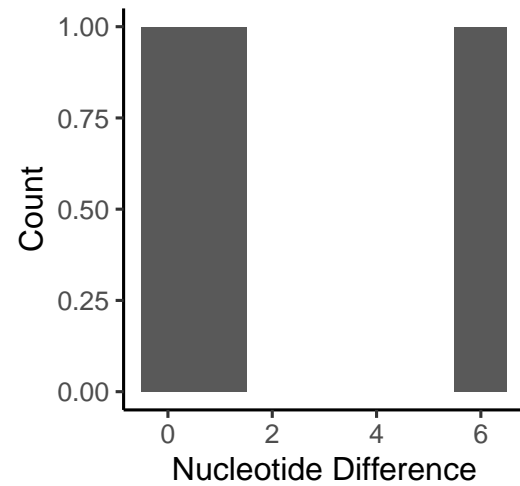
IGHV4-39*02_C258G

26 sequences assigned
14 (53.8%) exact matches, in which:
14 unique CDR3
3 unique J



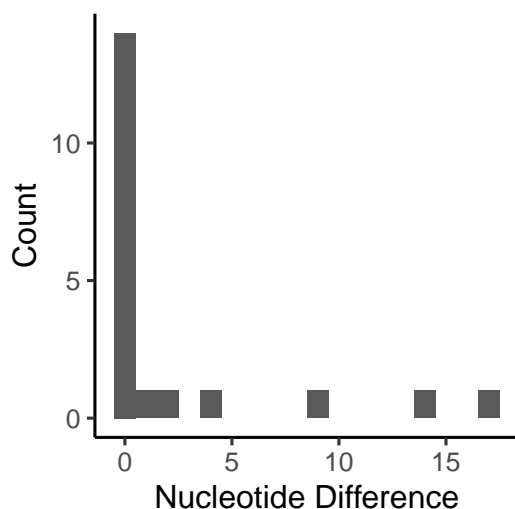
IGHV4-59*11

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



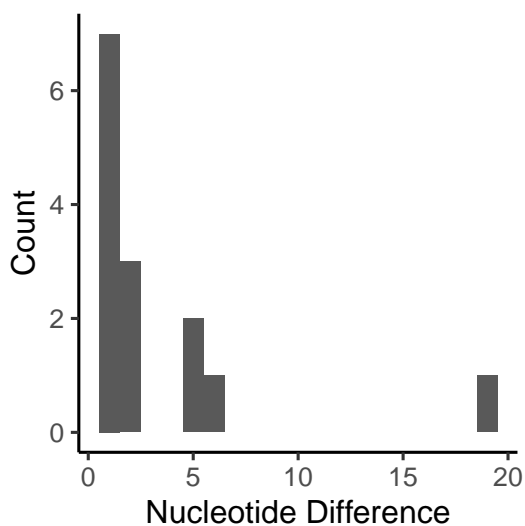
IGHV4-61*02

229 sequences assigned
14 (6.1%) exact matches, in which:
14 unique CDR3
4 unique J



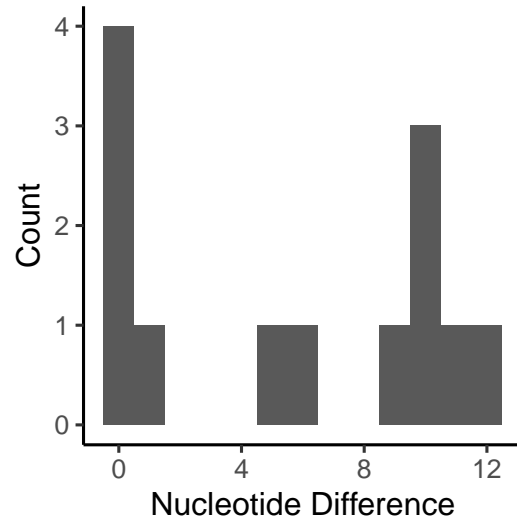
IGHV5-51*07

14 sequences assigned
No exact matches.



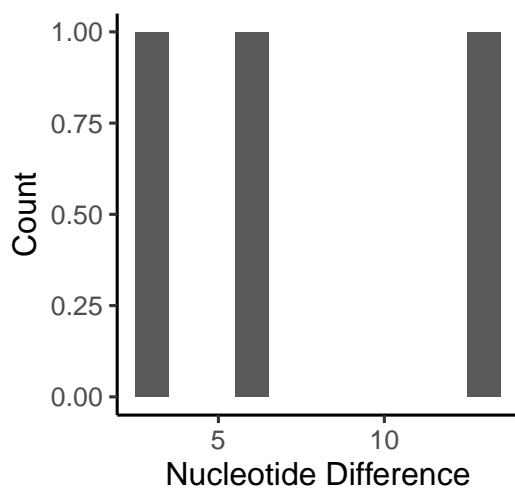
IGHV7-4-1*02

13 sequences assigned
4 (30.8%) exact matches, in which:
4 unique CDR3
3 unique J



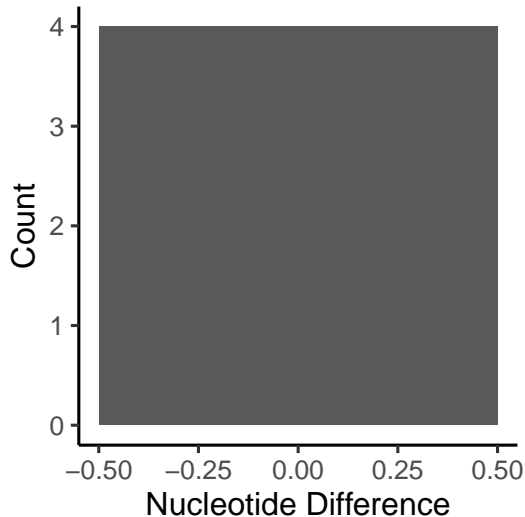
IGHV4-61*09

3 sequences assigned
No exact matches.



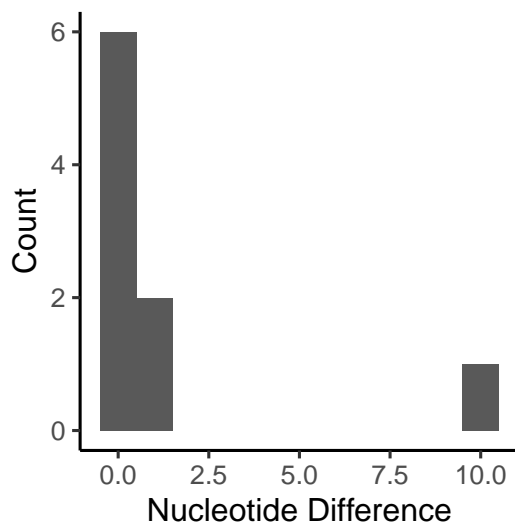
IGHV5-51*01_03

4 sequences assigned
4 (100%) exact matches, in which:
4 unique CDR3
2 unique J



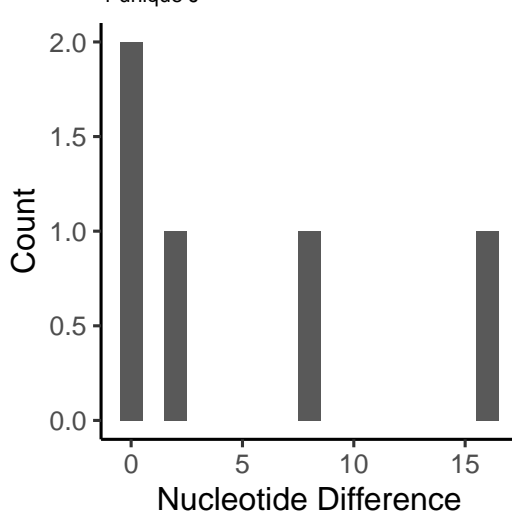
IGHV5-10-1*01_03

9 sequences assigned
6 (66.7%) exact matches, in which:
6 unique CDR3
3 unique J



IGHV6-1*01_02

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





Warning – no inferred sequences found.