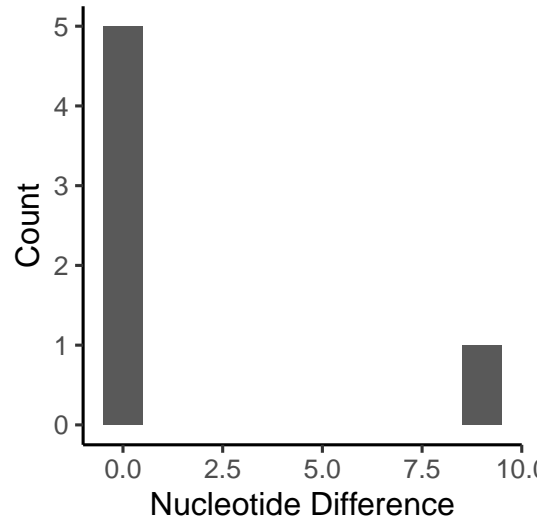


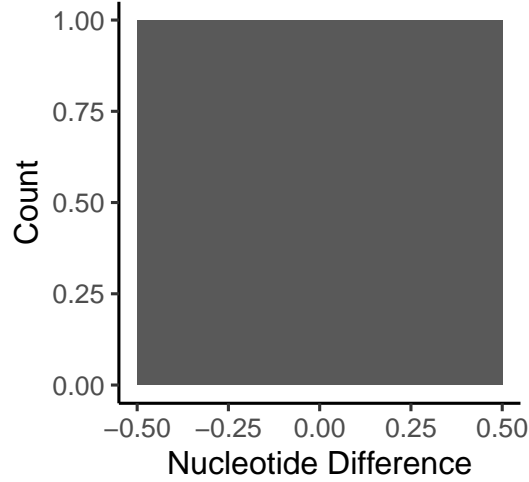
IGHV1–2*04

6 sequences assigned
5 (83.3%) exact matches, in which:
5 unique CDR3
4 unique J



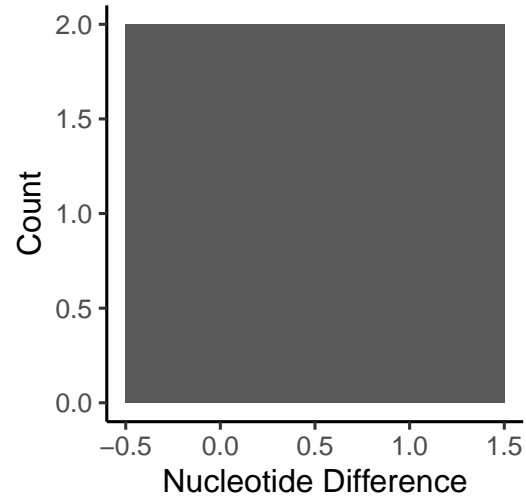
IGHV1–24*01

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



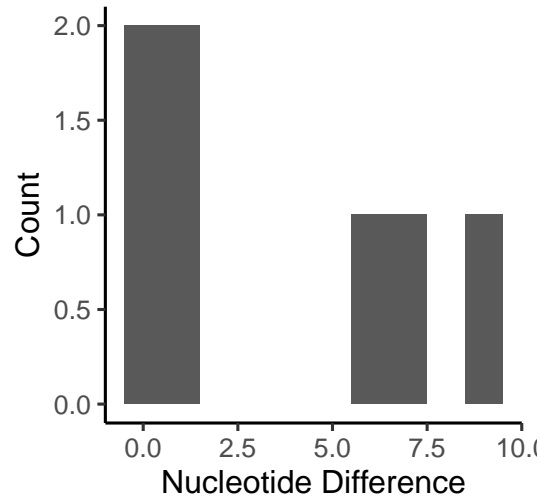
IGHV1–69*02

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



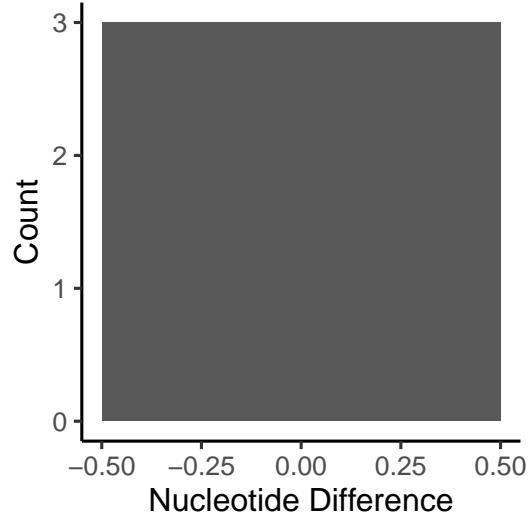
IGHV1–3*01

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



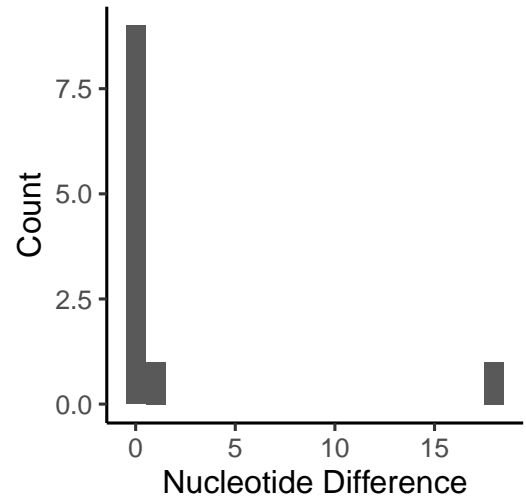
IGHV1–46*01

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



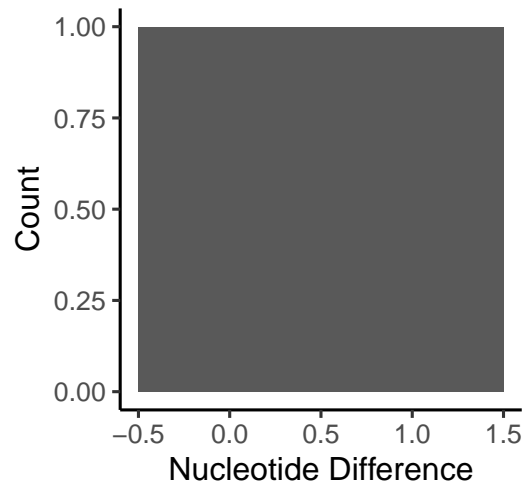
IGHV1–69*06

11 sequences assigned
9 (81.8%) exact matches, in which:
9 unique CDR3
4 unique J



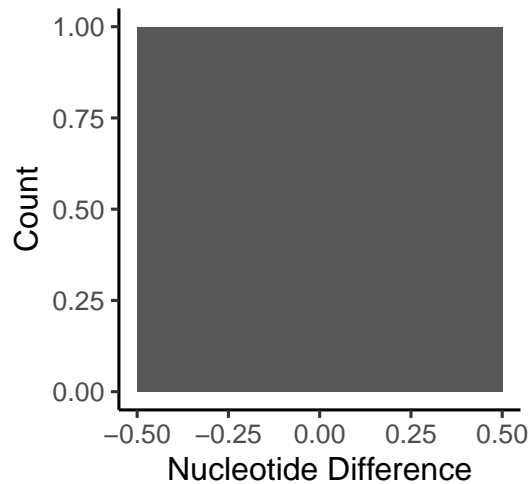
IGHV1–18*04

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



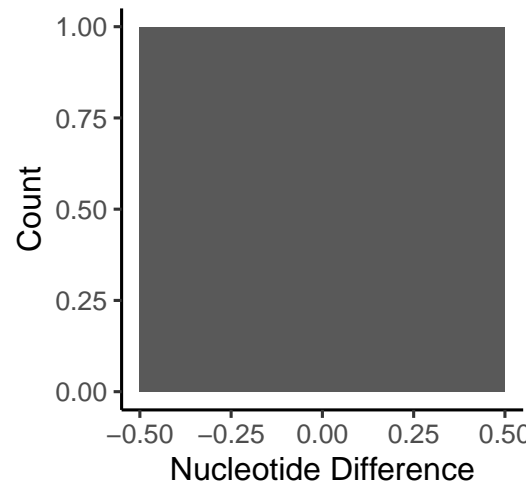
IGHV1–58*02

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



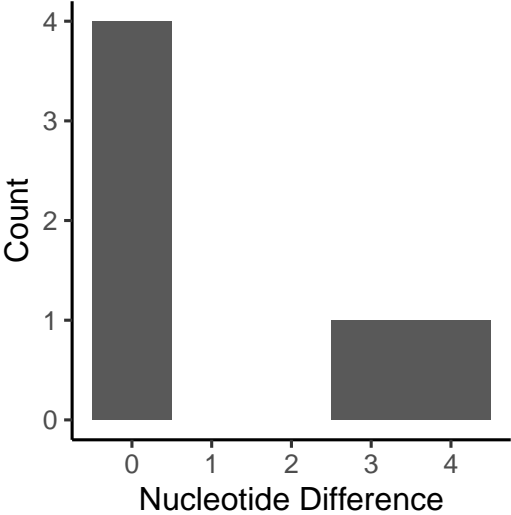
IGHV2–5*02

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



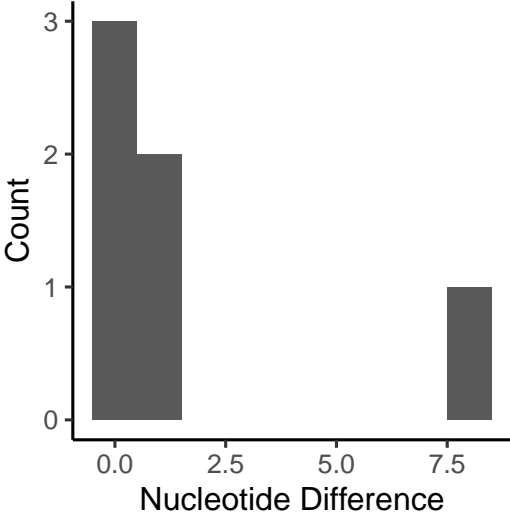
IGHV3-7*03

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



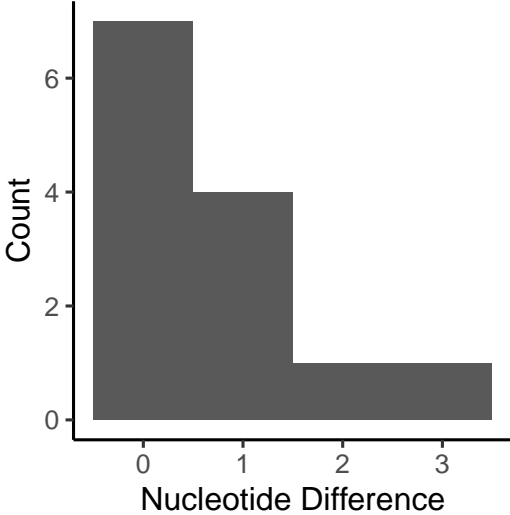
IGHV3-15*01

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



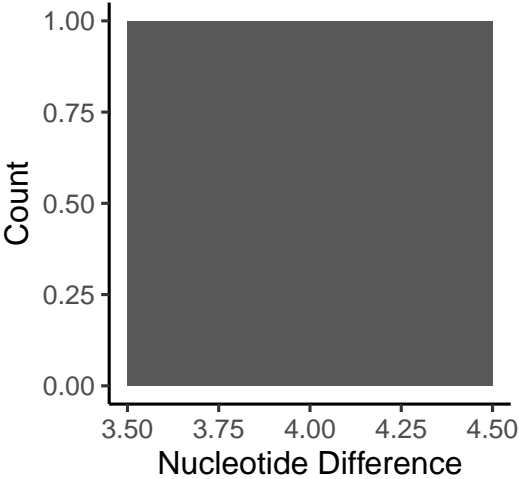
IGHV3-33*01

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



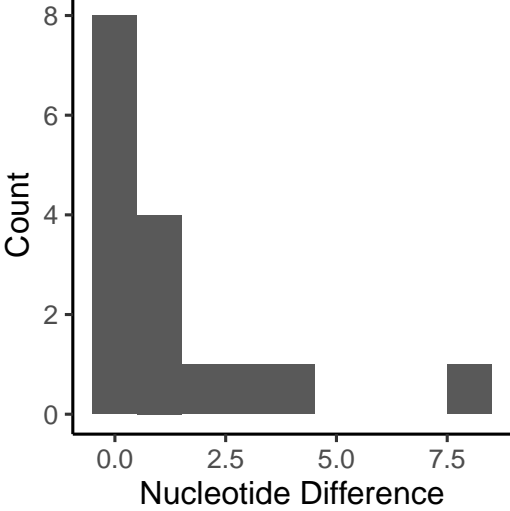
IGHV3-7*04

1 sequences assigned
No exact matches.



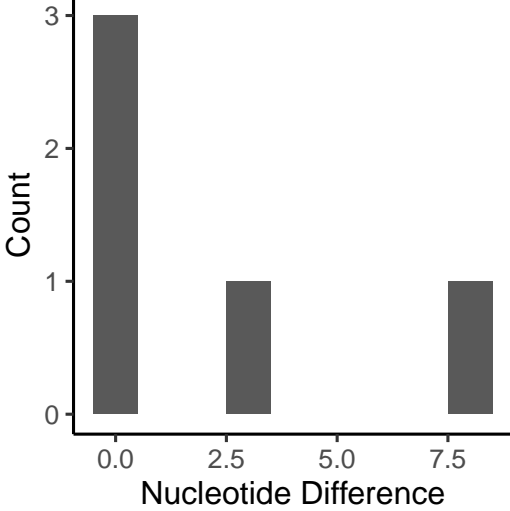
IGHV3-21*01

16 sequences assigned
8 (50%) exact matches, in which:
8 unique CDR3
3 unique J



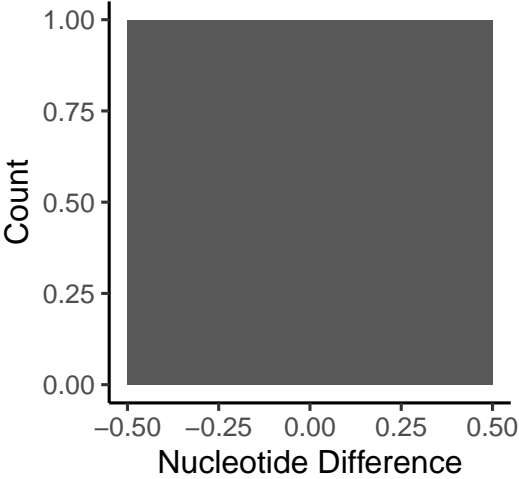
IGHV3-48*02

5 sequences assigned
3 (60%) exact matches, in which:
3 unique CDR3
1 unique J



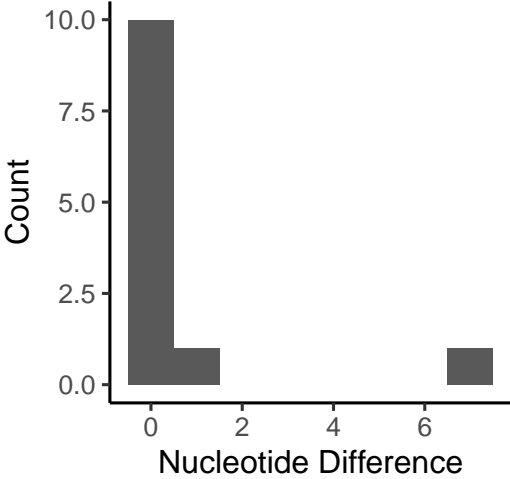
IGHV3-11*06

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



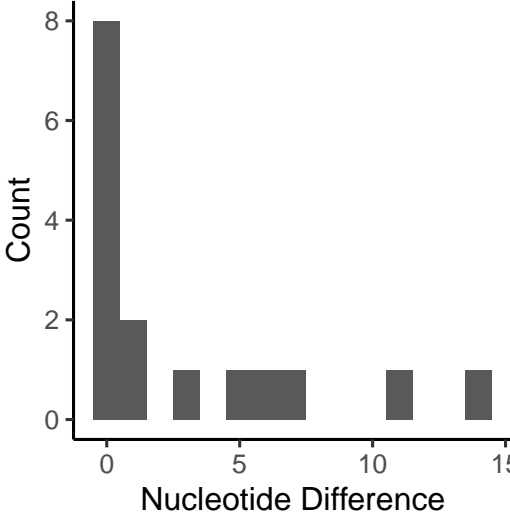
IGHV3-30-3*01

12 sequences assigned
10 (83.3%) exact matches, in which:
10 unique CDR3
2 unique J



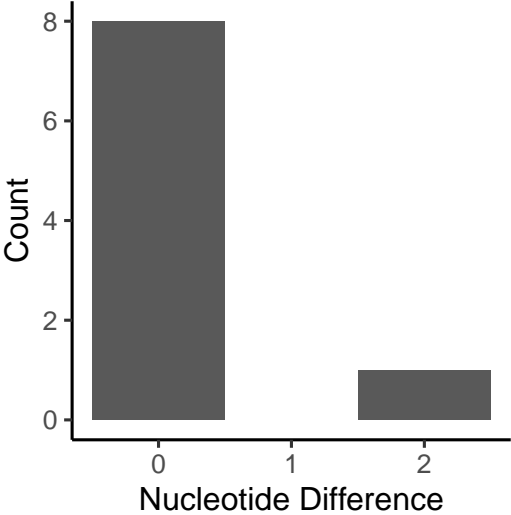
IGHV3-48*03

16 sequences assigned
8 (50%) exact matches, in which:
8 unique CDR3
4 unique J



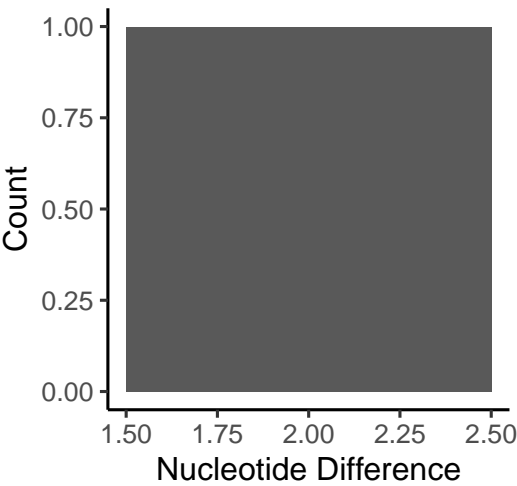
IGHV3-49*04

9 sequences assigned
8 (88.9%) exact matches, in which:
8 unique CDR3
3 unique J



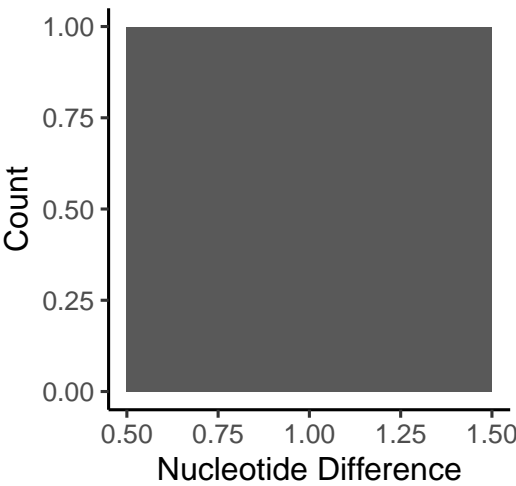
IGHV3-53*02

1 sequences assigned
No exact matches.



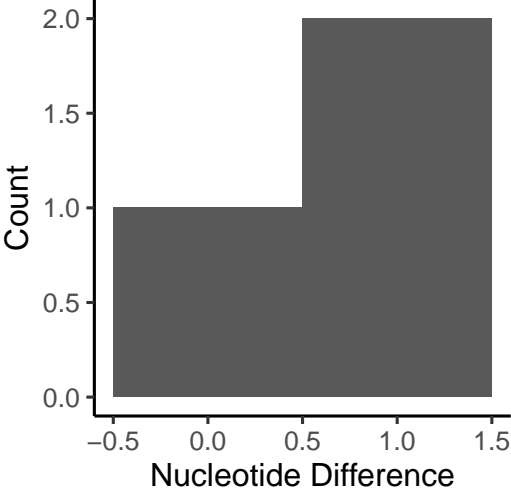
IGHV3-66*02

1 sequences assigned
No exact matches.



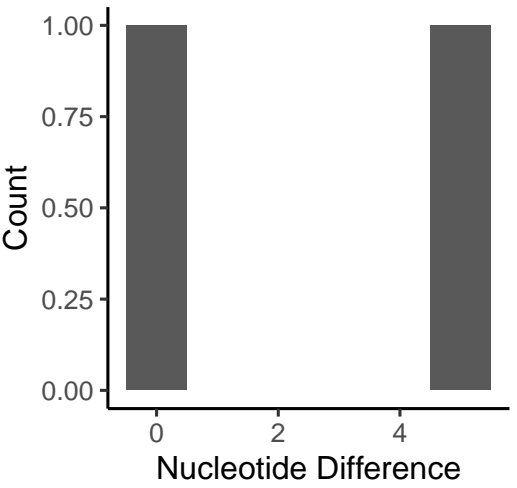
IGHV3-49*05

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



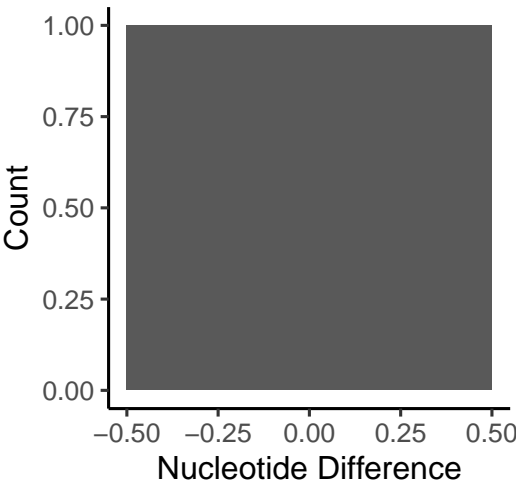
IGHV3-64*01

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



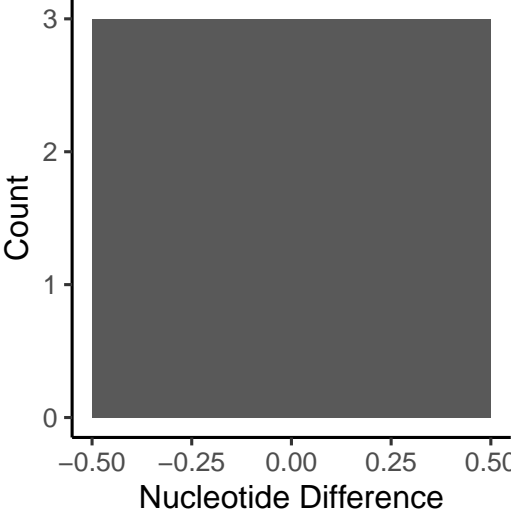
IGHV3-72*01

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



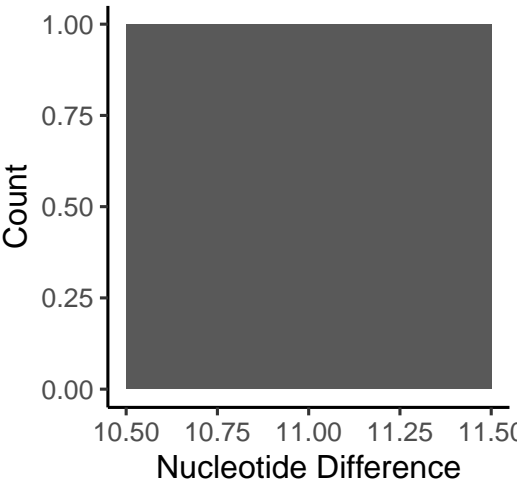
IGHV3-53*01

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



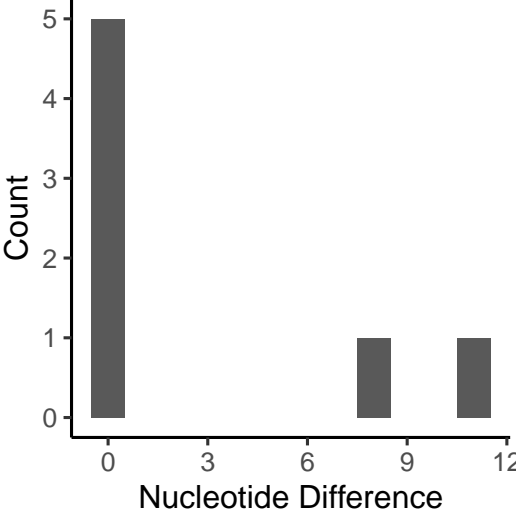
IGHV3-64*07

1 sequences assigned
No exact matches.



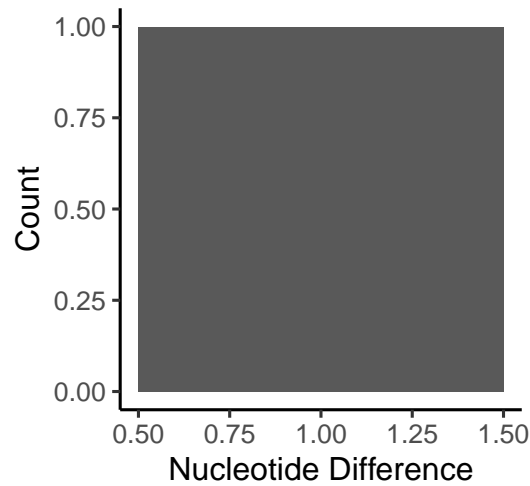
IGHV3-74*01

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



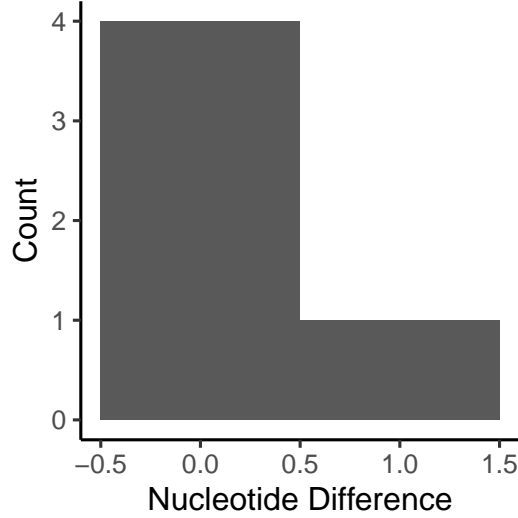
IGHV3-43D*04

1 sequences assigned
No exact matches.



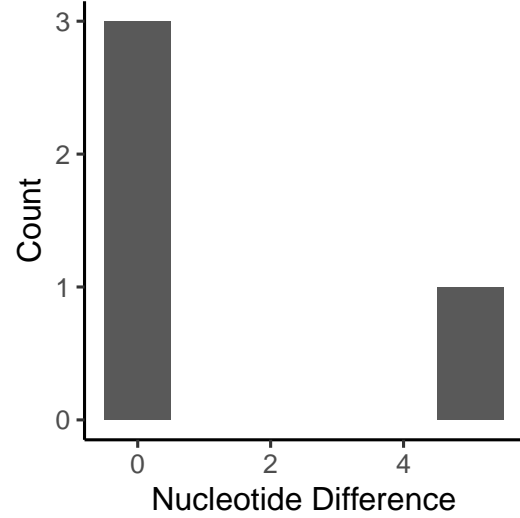
IGHV4-30-4*01

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



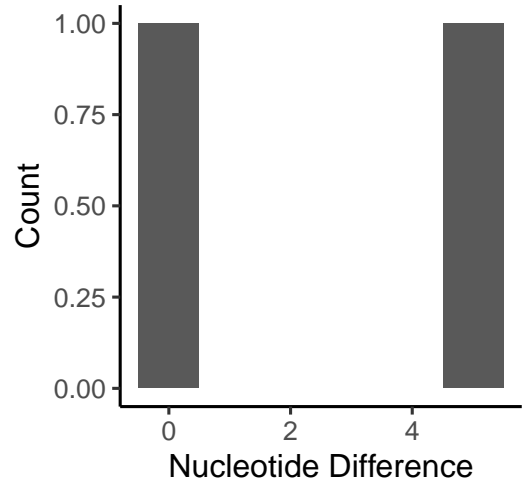
IGHV4-38-2*01

4 sequences assigned
3 (75%) exact matches, in which:
3 unique CDR3
3 unique J



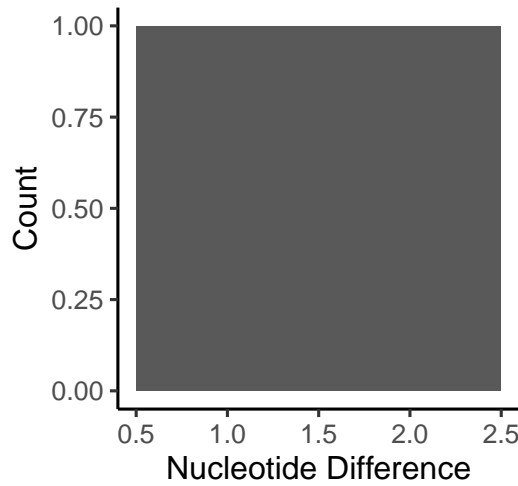
IGHV3-64D*09

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



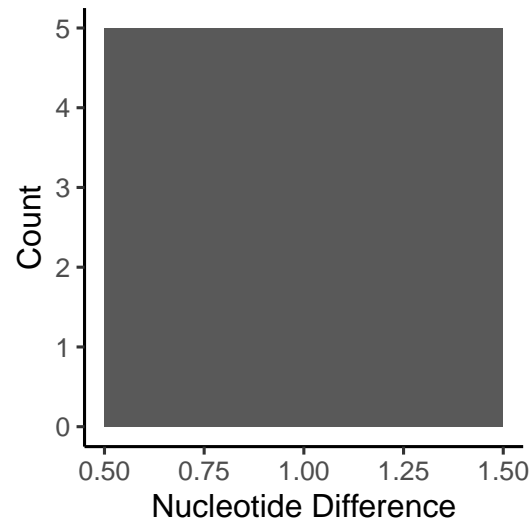
IGHV4-31*03

2 sequences assigned
No exact matches.



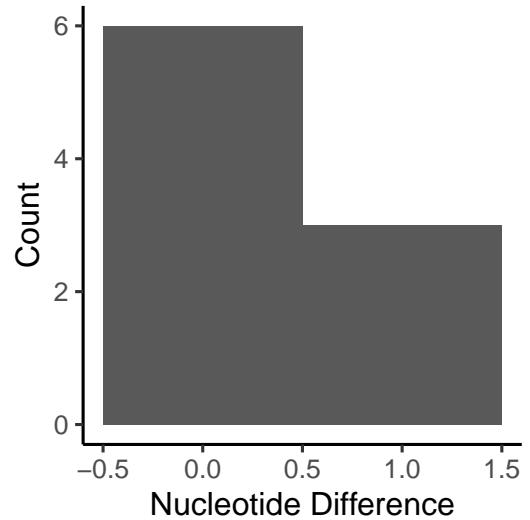
IGHV4-38-2*02

5 sequences assigned
No exact matches.



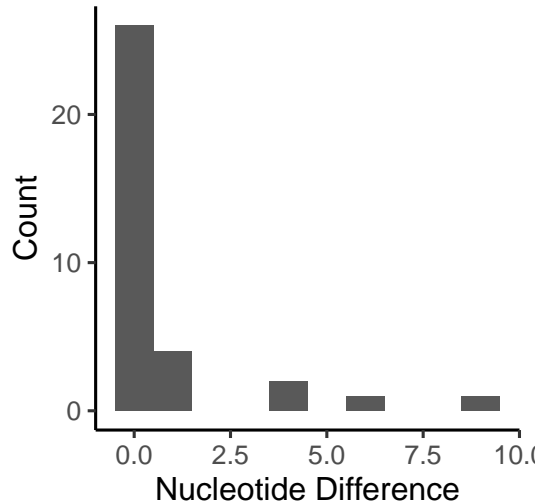
IGHV4-4*02

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



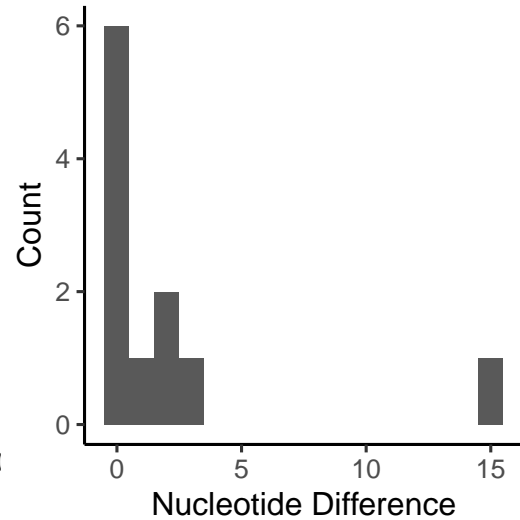
IGHV4-34*01

34 sequences assigned
26 (76.5%) exact matches, in which:
26 unique CDR3
6 unique J



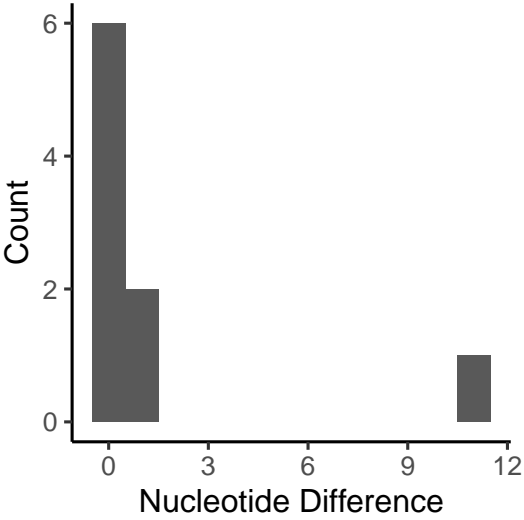
IGHV4-39*07

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



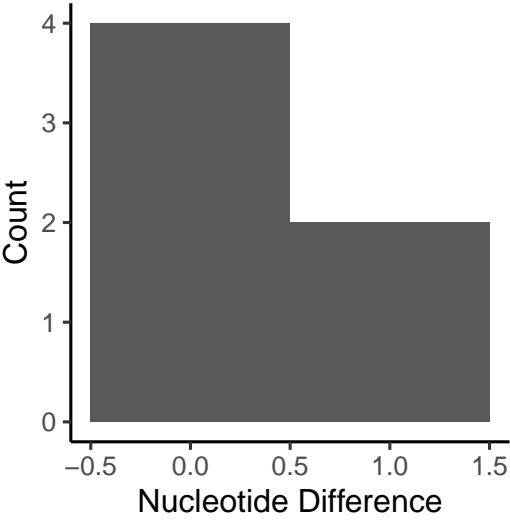
IGHV4-59*01

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



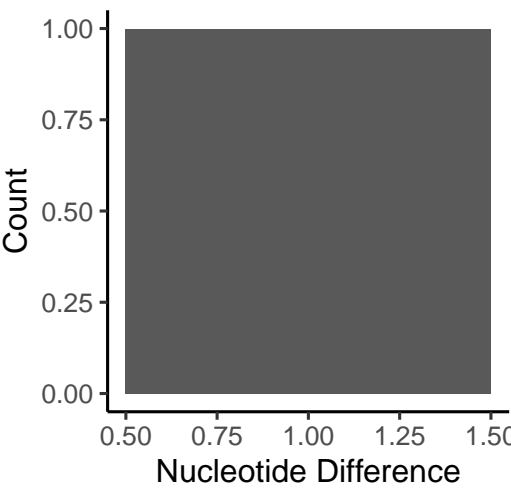
IGHV5-10-1*03

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



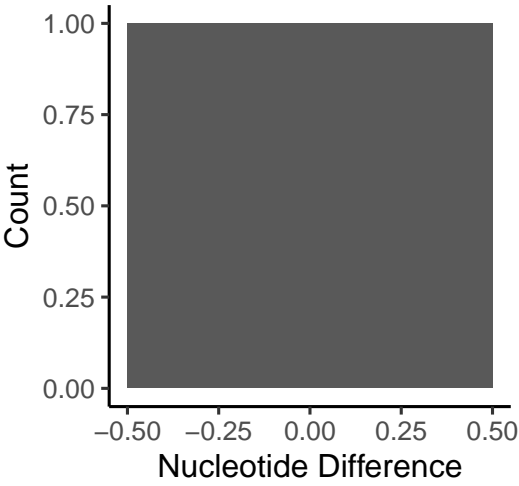
IGHV7-4-1*01

1 sequences assigned
No exact matches.



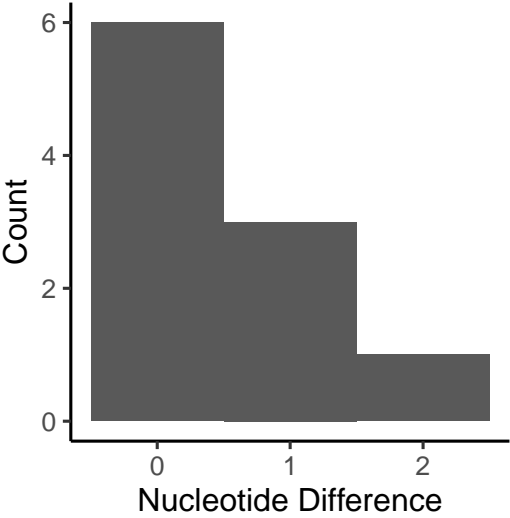
IGHV4-61*01

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



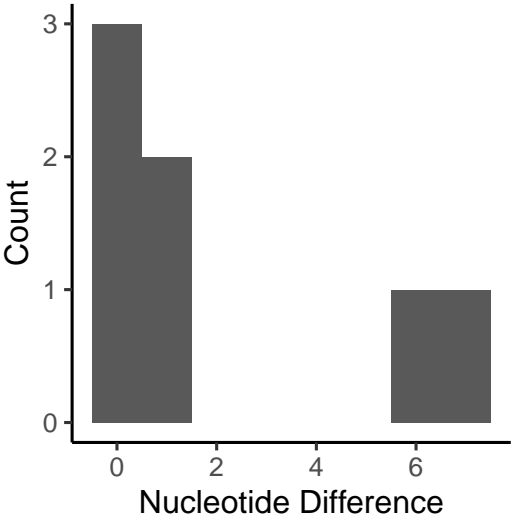
IGHV5-51*01

10 sequences assigned
6 (60%) exact matches, in which:
6 unique CDR3
3 unique J



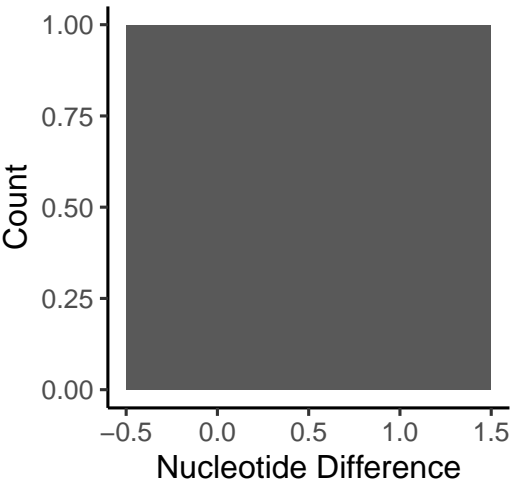
IGHV4-61*02

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

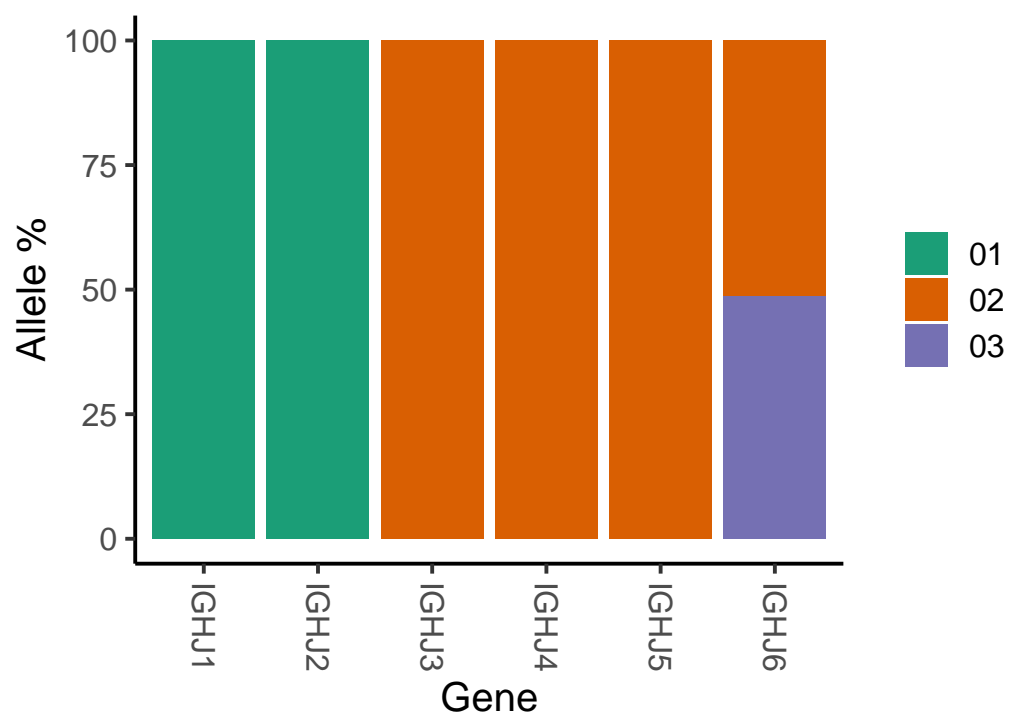


IGHV6-1*01

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



Allele Usage



Sequence Count by IGHJ6 allele usage



[illegible]