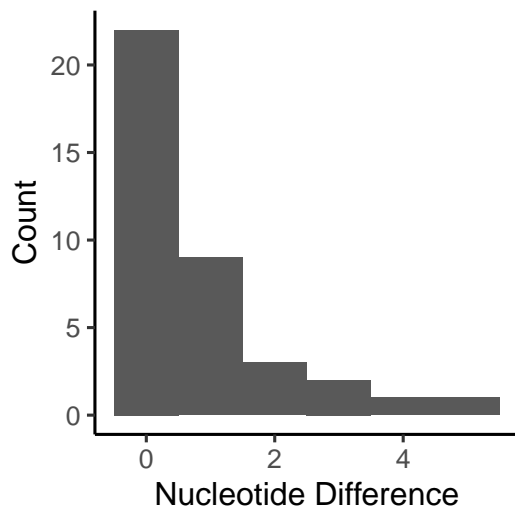


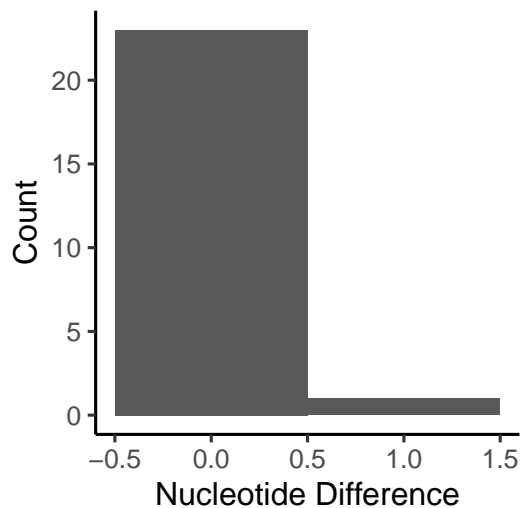
IGHV1-2*02

38 sequences assigned
22 (57.9%) exact matches, in which:
20 unique CDR3
4 unique J



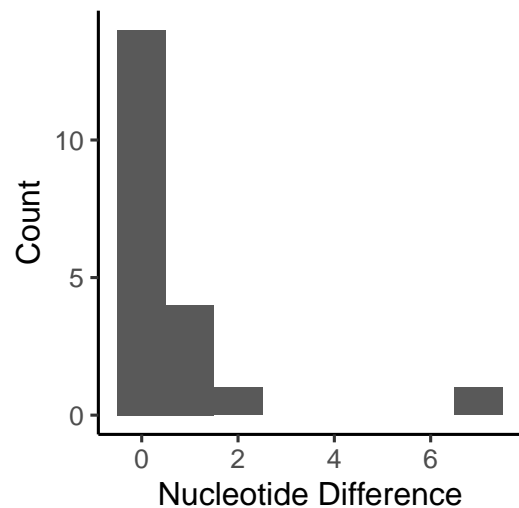
IGHV1-8*01

24 sequences assigned
23 (95.8%) exact matches, in which:
23 unique CDR3
5 unique J



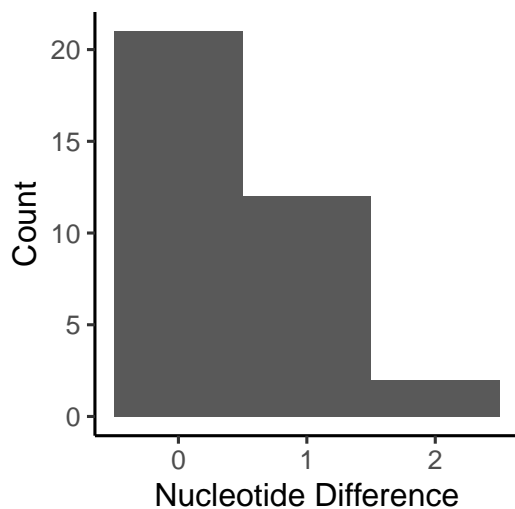
IGHV1-46*03

20 sequences assigned
14 (70%) exact matches, in which:
14 unique CDR3
6 unique J



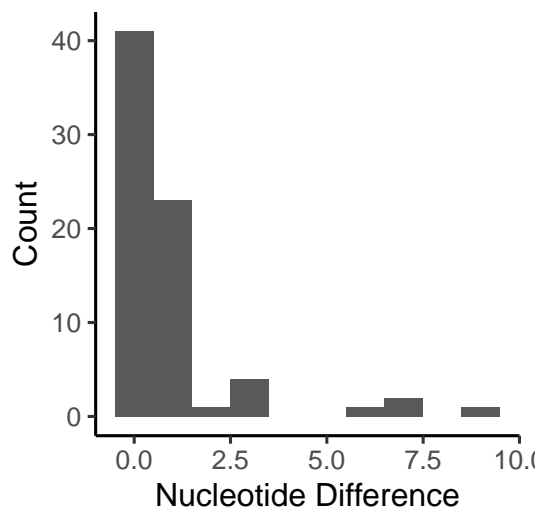
IGHV1-2*06

35 sequences assigned
21 (60%) exact matches, in which:
20 unique CDR3
6 unique J



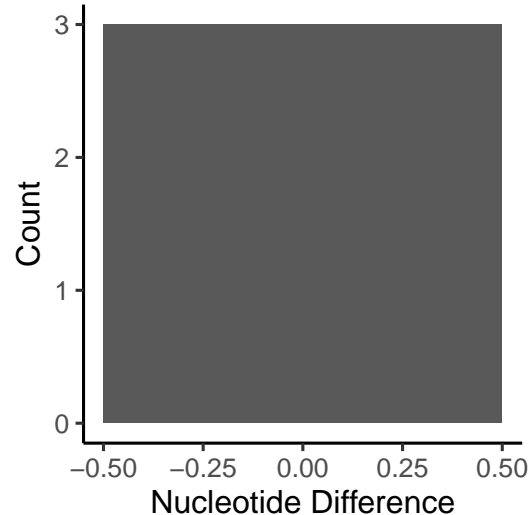
IGHV1-18*01

73 sequences assigned
41 (56.2%) exact matches, in which:
39 unique CDR3
6 unique J



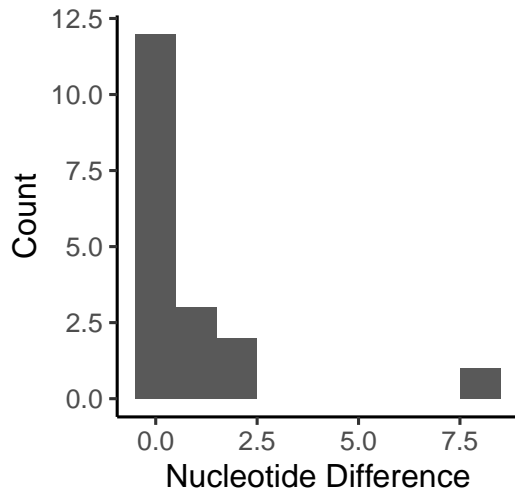
IGHV1-58*02

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



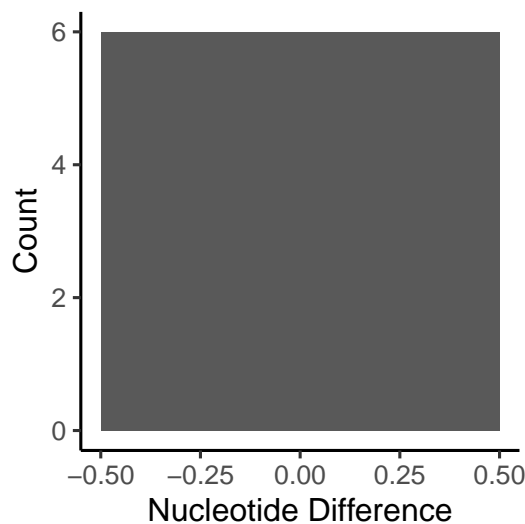
IGHV1-3*01

18 sequences assigned
12 (66.7%) exact matches, in which:
11 unique CDR3
4 unique J



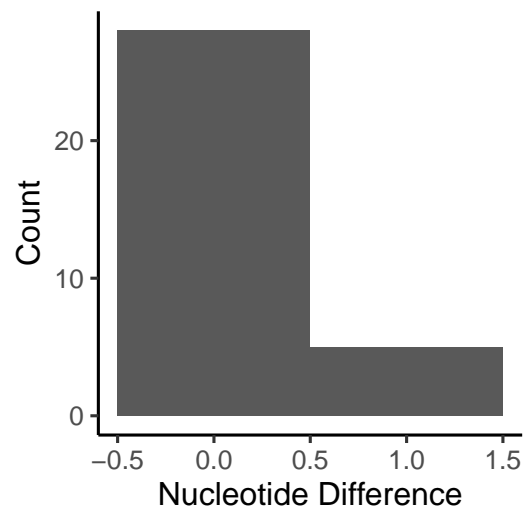
IGHV1-24*01

6 sequences assigned
6 (100%) exact matches, in which:
6 unique CDR3
3 unique J



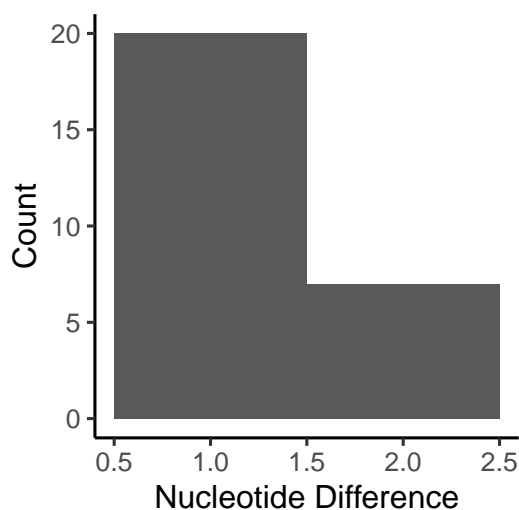
IGHV1-69*02

33 sequences assigned
28 (84.8%) exact matches, in which:
28 unique CDR3
6 unique J



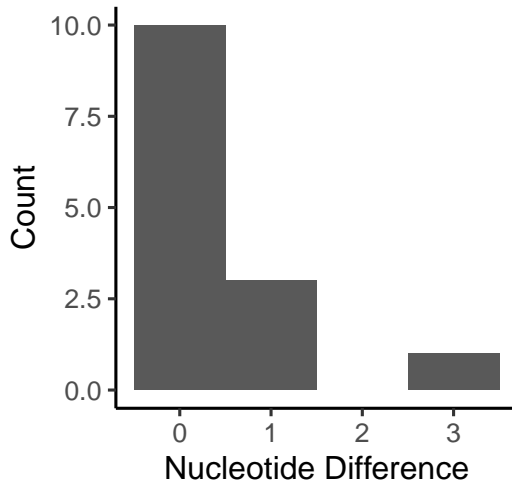
IGHV1-69*08

27 sequences assigned
No exact matches.



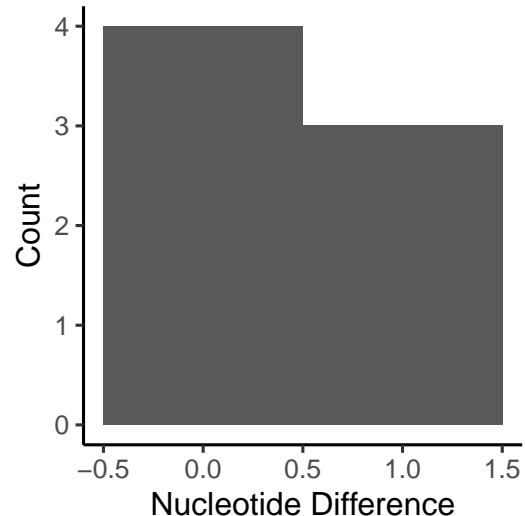
IGHV2-26*01

14 sequences assigned
10 (71.4%) exact matches, in which:
10 unique CDR3
4 unique J



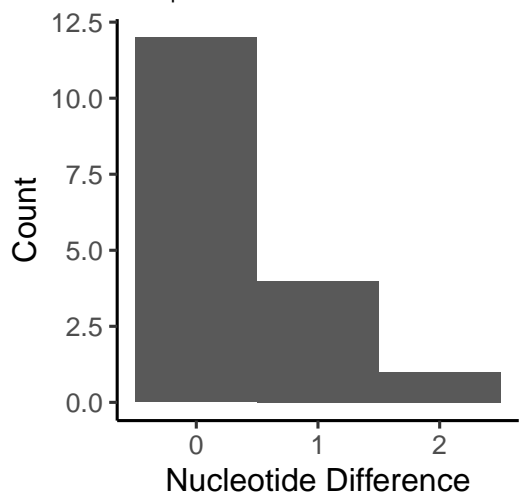
IGHV3-7*04

7 sequences assigned
4 (57.1%) exact matches, in which:
4 unique CDR3
2 unique J



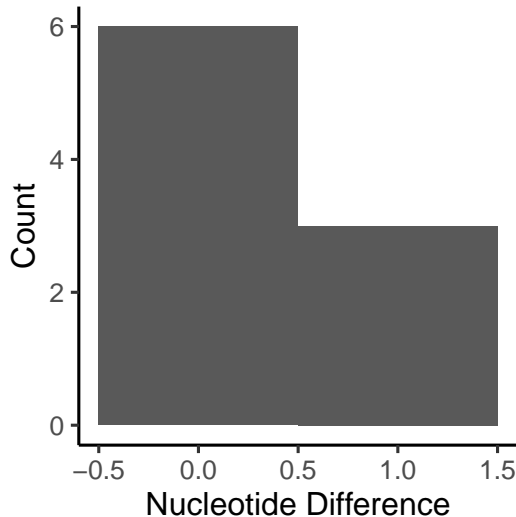
IGHV2-5*01

17 sequences assigned
12 (70.6%) exact matches, in which:
12 unique CDR3
4 unique J



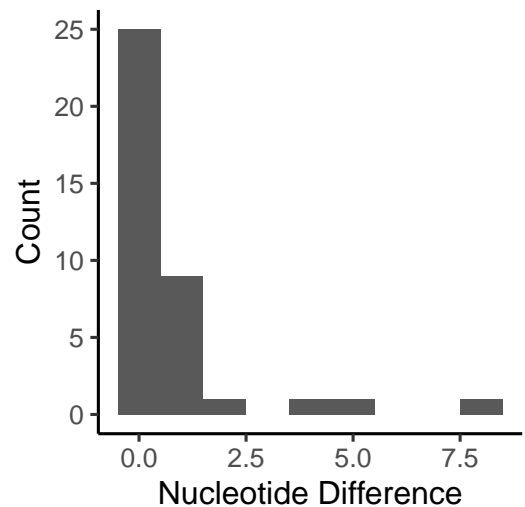
IGHV2-70*15

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



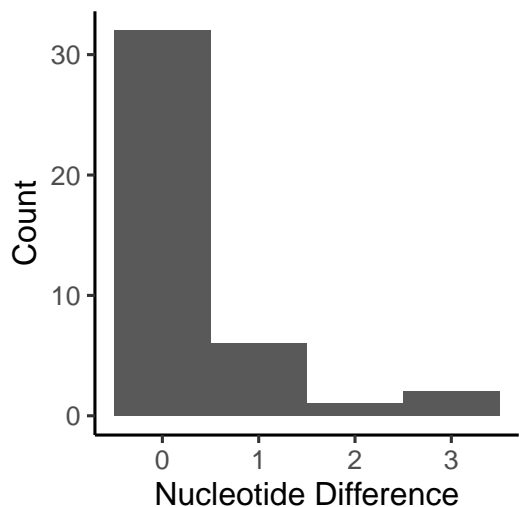
IGHV3-9*01

38 sequences assigned
25 (65.8%) exact matches, in which:
24 unique CDR3
4 unique J



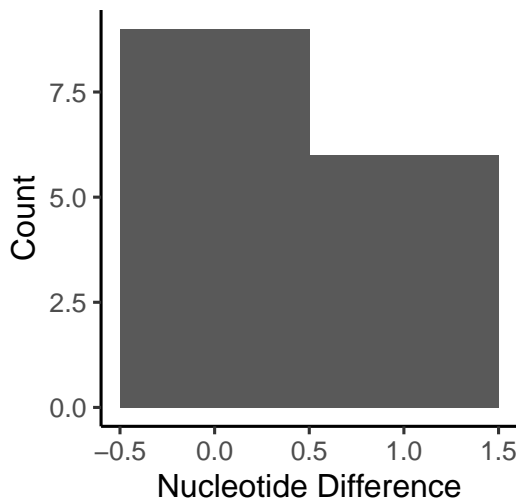
IGHV2-5*02

41 sequences assigned
32 (78%) exact matches, in which:
25 unique CDR3
5 unique J



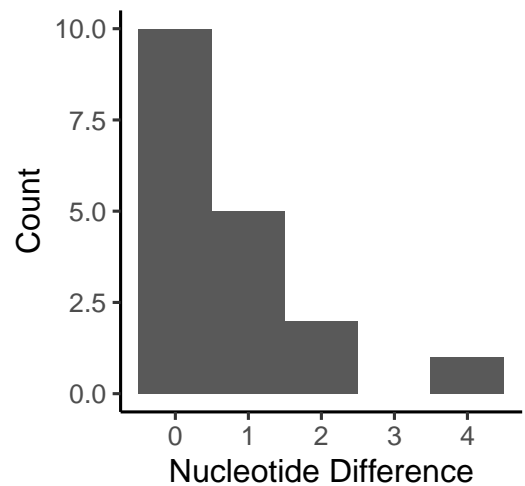
IGHV3-7*01

15 sequences assigned
9 (60%) exact matches, in which:
9 unique CDR3
3 unique J



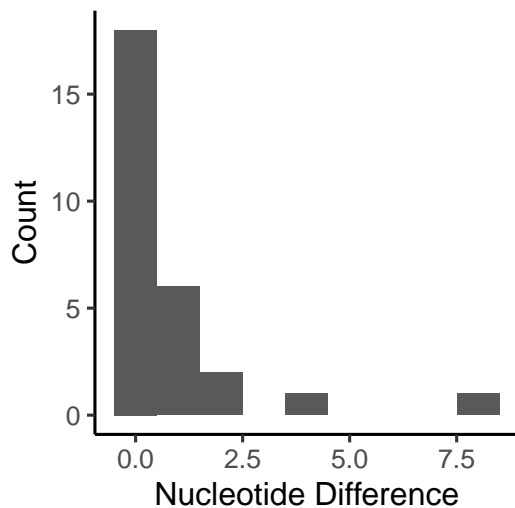
IGHV3-11*01

18 sequences assigned
10 (55.6%) exact matches, in which:
10 unique CDR3
4 unique J



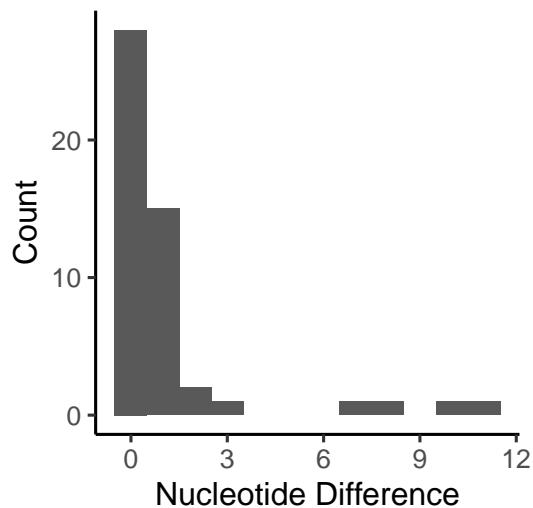
IGHV3-11*05

28 sequences assigned
18 (64.3%) exact matches, in which:
16 unique CDR3
4 unique J



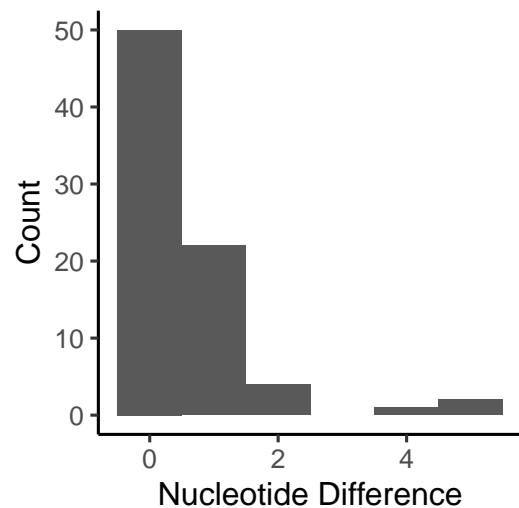
IGHV3-15*01

50 sequences assigned
28 (56%) exact matches, in which:
28 unique CDR3
3 unique J



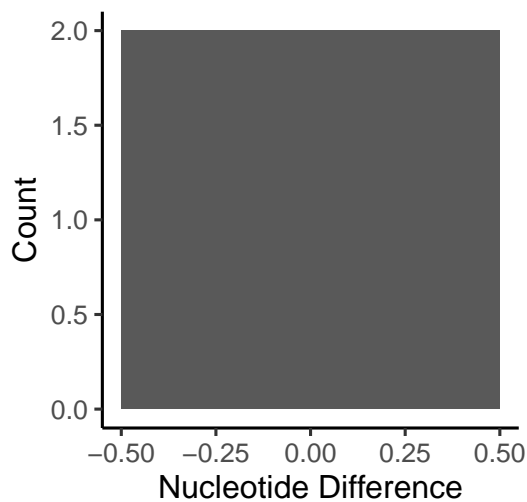
IGHV3-21*01

79 sequences assigned
50 (63.3%) exact matches, in which:
50 unique CDR3
6 unique J



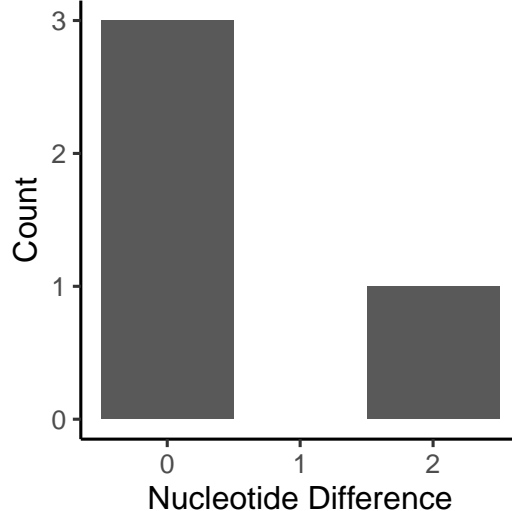
IGHV3-13*01

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



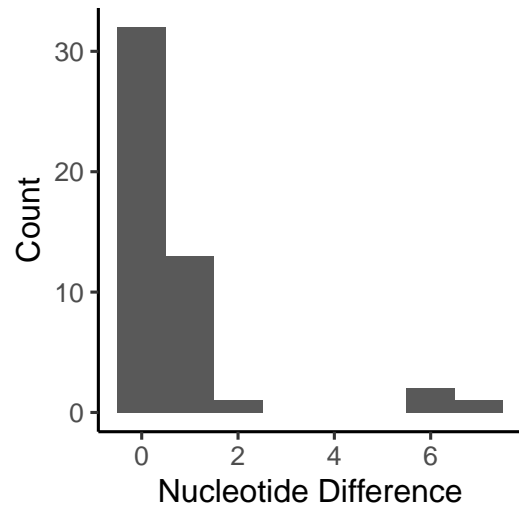
IGHV3-20*01

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



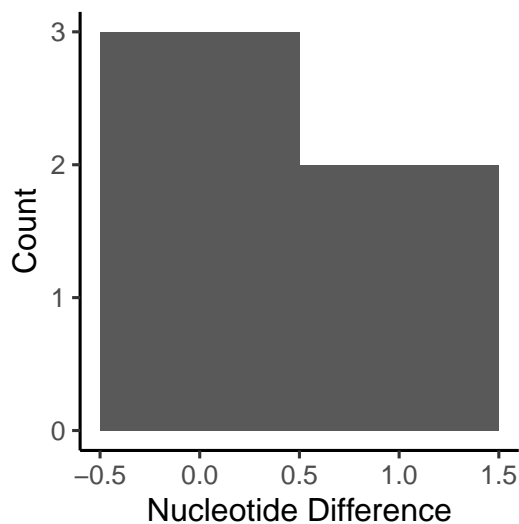
IGHV3-30-3*01

49 sequences assigned
32 (65.3%) exact matches, in which:
31 unique CDR3
4 unique J



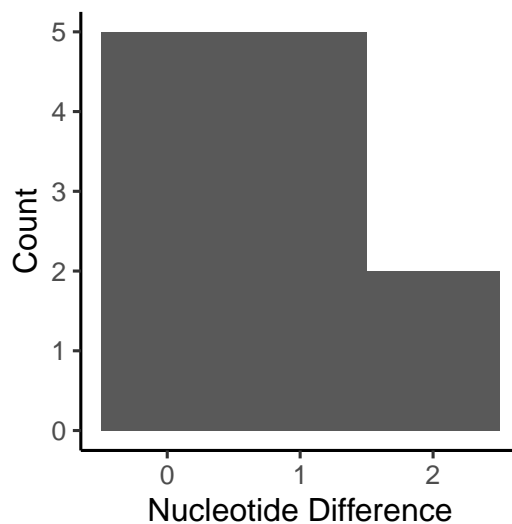
IGHV3-13*04

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



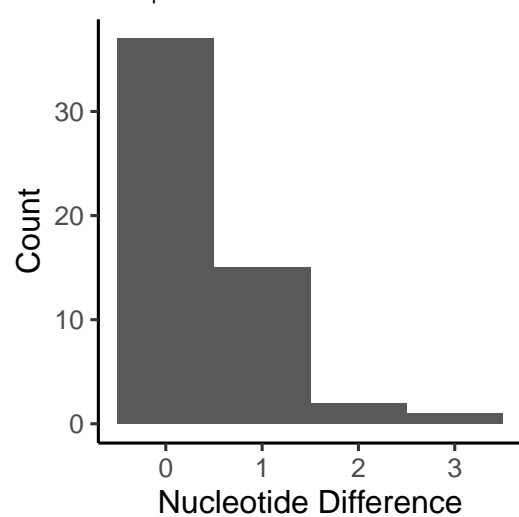
IGHV3-20*04

12 sequences assigned
5 (41.7%) exact matches, in which:
5 unique CDR3
2 unique J



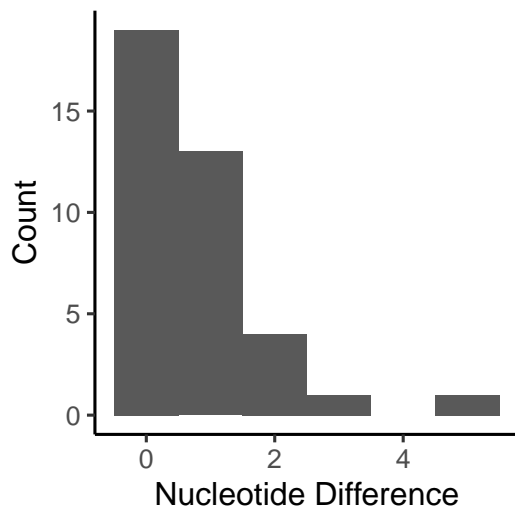
IGHV3-33*01

55 sequences assigned
37 (67.3%) exact matches, in which:
36 unique CDR3
7 unique J



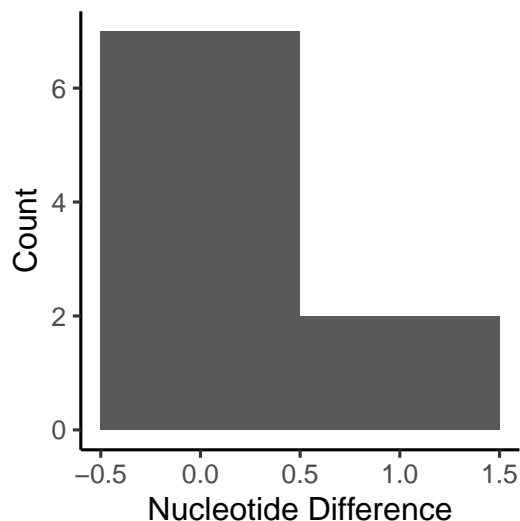
IGHV3-48*01

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



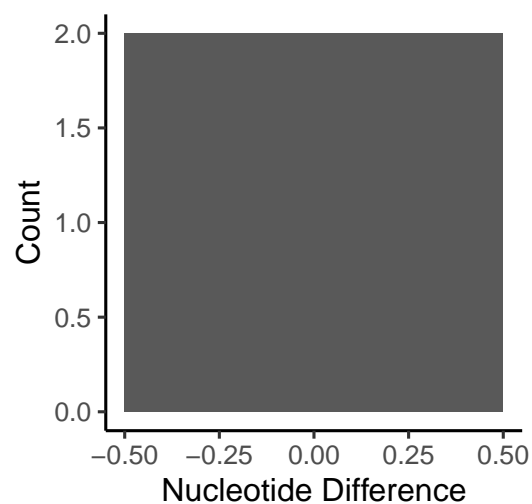
IGHV3-53*04

9 sequences assigned
7 (77.8%) exact matches, in which:
7 unique CDR3
4 unique J



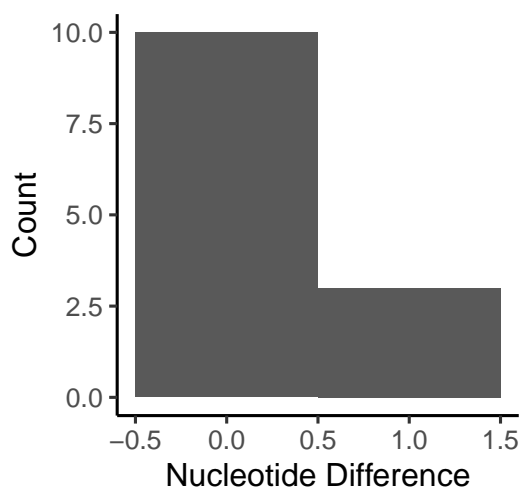
IGHV3-72*01

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



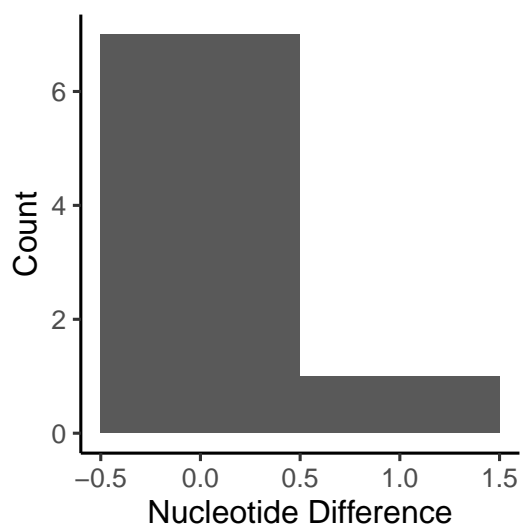
IGHV3-49*03

13 sequences assigned
10 (76.9%) exact matches, in which:
10 unique CDR3
4 unique J



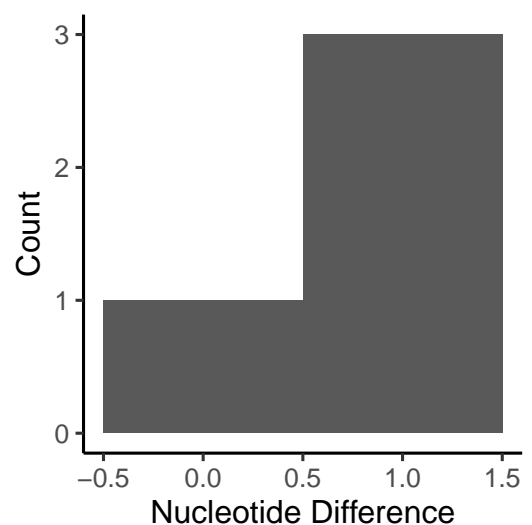
IGHV3-64*01

8 sequences assigned
7 (87.5%) exact matches, in which:
7 unique CDR3
4 unique J



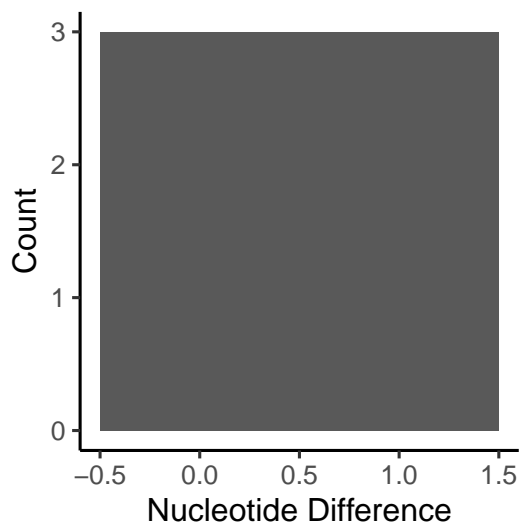
IGHV3-73*01

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



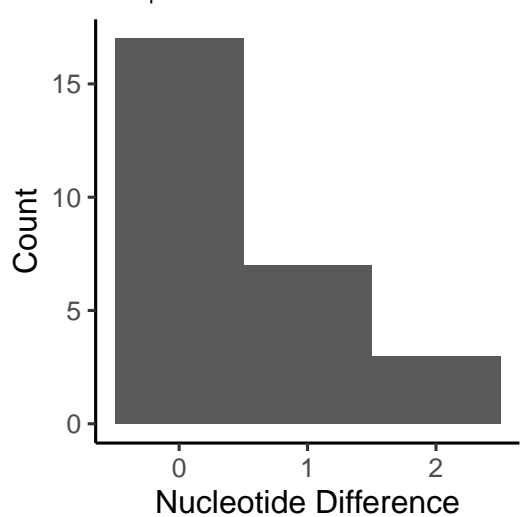
IGHV3-53*02

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



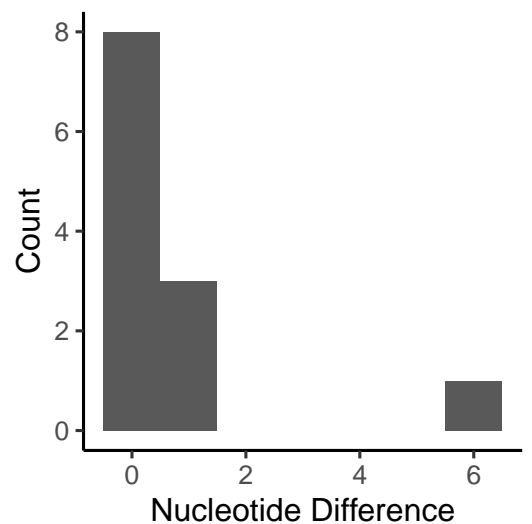
IGHV3-66*01

27 sequences assigned
17 (63%) exact matches, in which:
17 unique CDR3
6 unique J



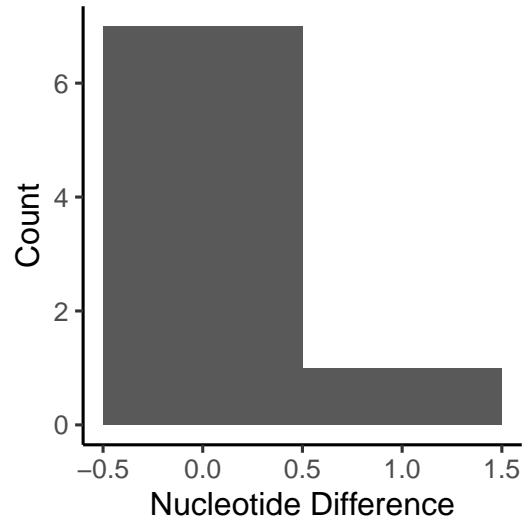
IGHV3-74*01

12 sequences assigned
8 (66.7%) exact matches, in which:
7 unique CDR3
3 unique J



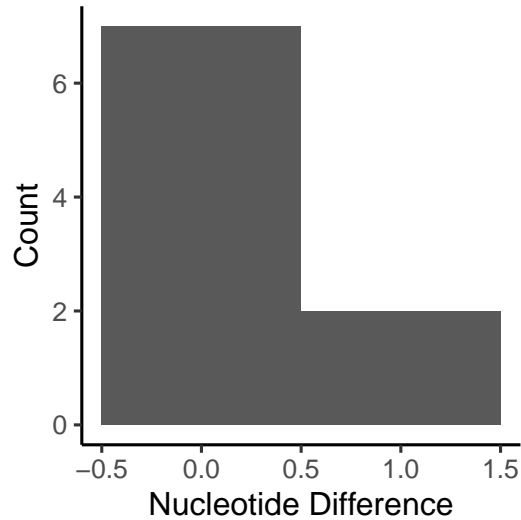
IGHV3-64D*06

8 sequences assigned
7 (87.5%) exact matches, in which:
7 unique CDR3
2 unique J



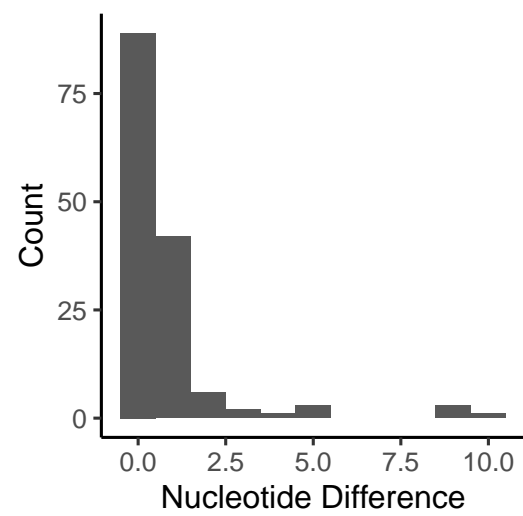
IGHV4-30-2*01

9 sequences assigned
7 (77.8%) exact matches, in which:
7 unique CDR3
5 unique J



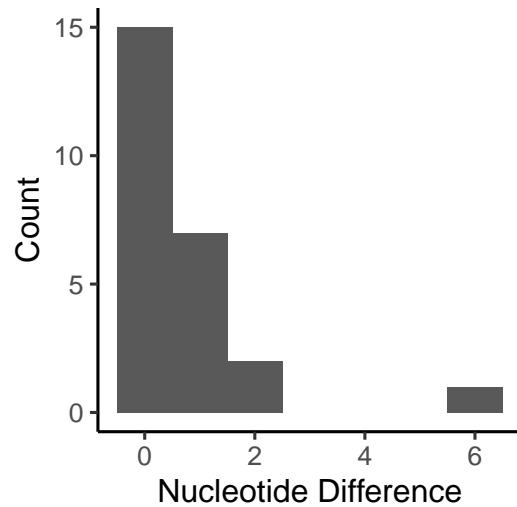
IGHV4-39*01

147 sequences assigned
89 (60.5%) exact matches, in which:
84 unique CDR3
7 unique J



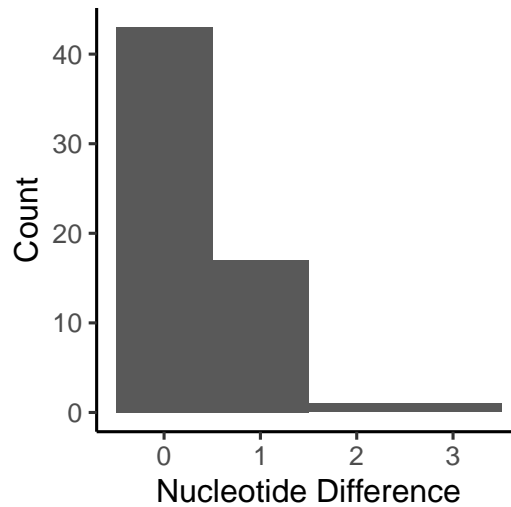
IGHV4-4*02

25 sequences assigned
15 (60%) exact matches, in which:
15 unique CDR3
5 unique J



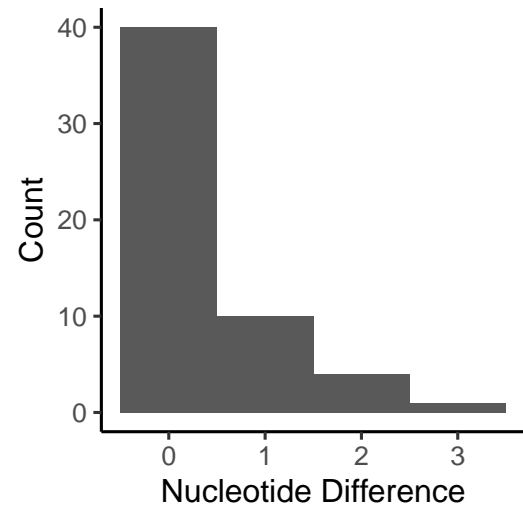
IGHV4-31*03

62 sequences assigned
43 (69.4%) exact matches, in which:
41 unique CDR3
7 unique J



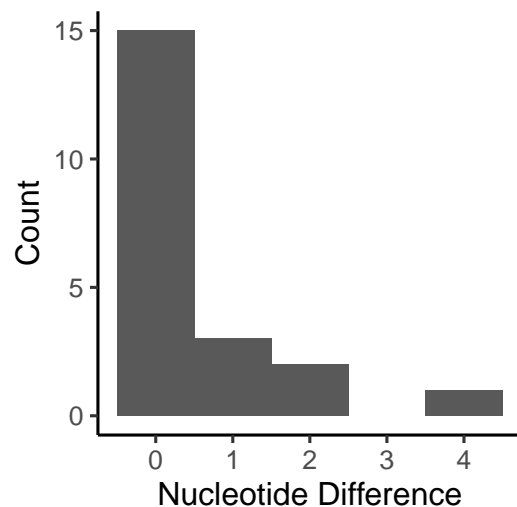
IGHV4-59*01

55 sequences assigned
40 (72.7%) exact matches, in which:
40 unique CDR3
6 unique J



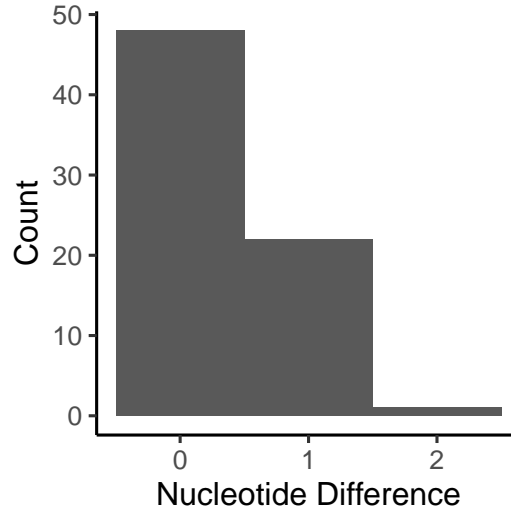
IGHV4-4*07

21 sequences assigned
15 (71.4%) exact matches, in which:
14 unique CDR3
5 unique J



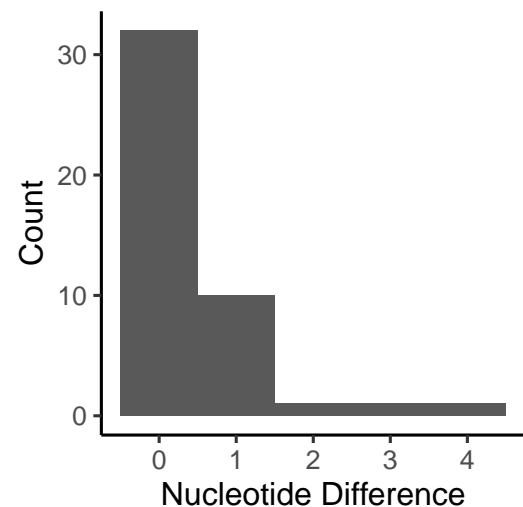
IGHV4-34*01

71 sequences assigned
48 (67.6%) exact matches, in which:
47 unique CDR3
7 unique J



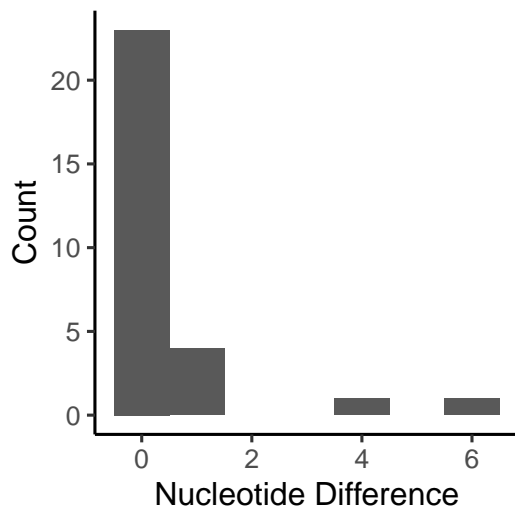
IGHV4-59*08

45 sequences assigned
32 (71.1%) exact matches, in which:
32 unique CDR3
6 unique J



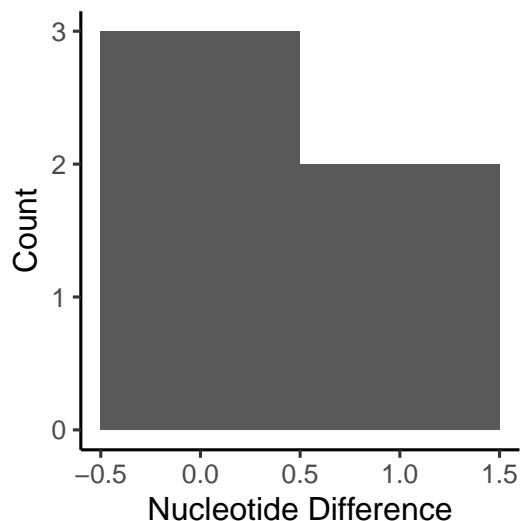
IGHV5-10-1*01

29 sequences assigned
23 (79.3%) exact matches, in which:
21 unique CDR3
5 unique J



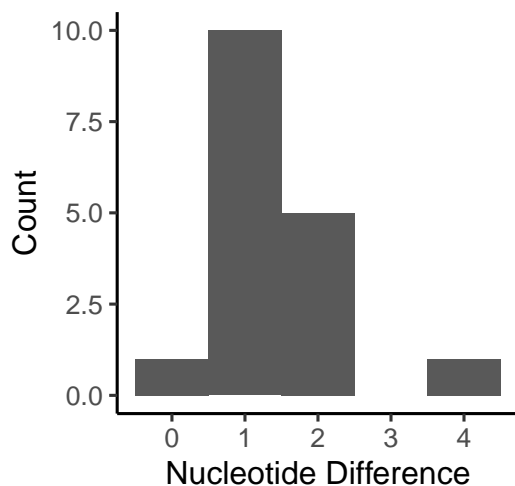
IGHV6-1*01

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



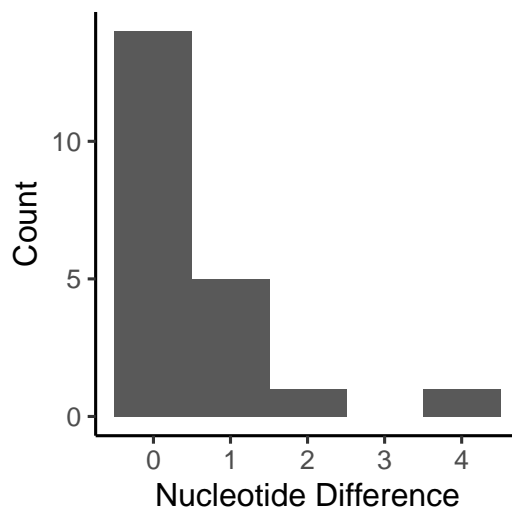
IGHV5-51*01

17 sequences assigned
1 (5.9%) exact matches, in which:
1 unique CDR3
1 unique J



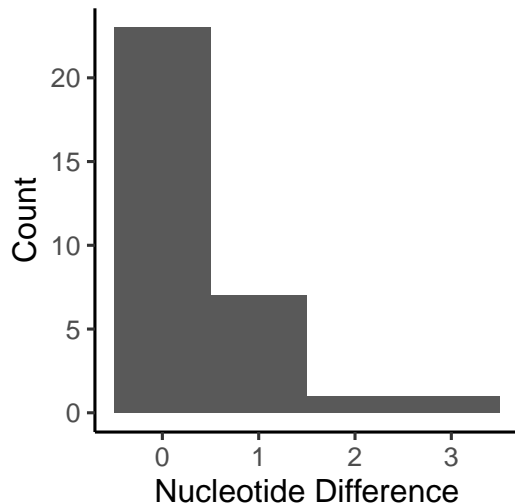
IGHV7-4-1*02

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

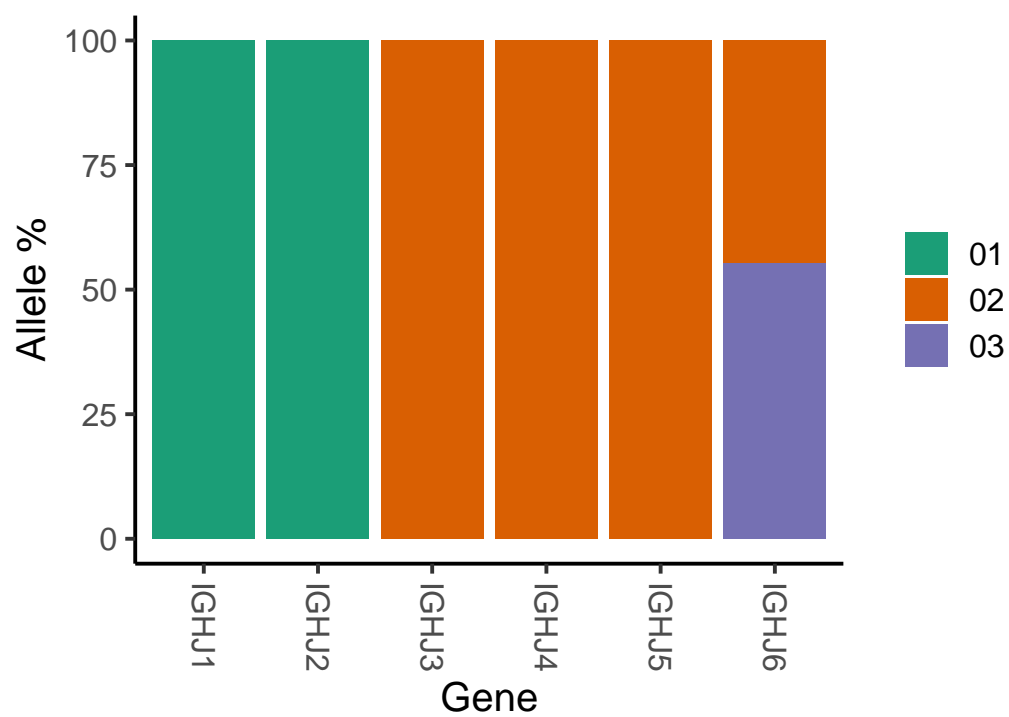


IGHV5-51*03

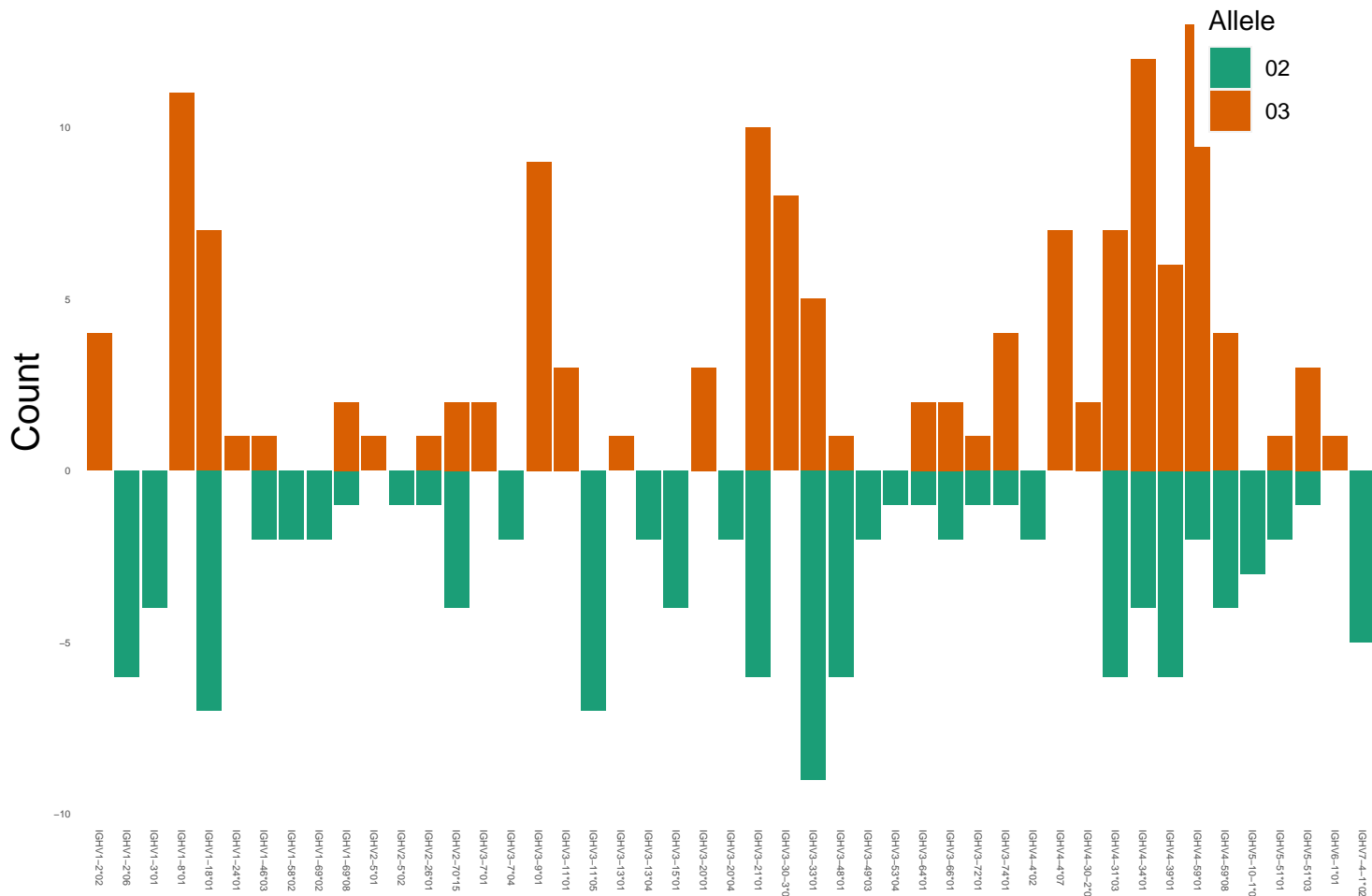
32 sequences assigned
23 (71.9%) exact matches, in which:
23 unique CDR3
5 unique J



Allele Usage



Sequence Count by IGHJ6 allele usage



Warning – no inferred sequences found.