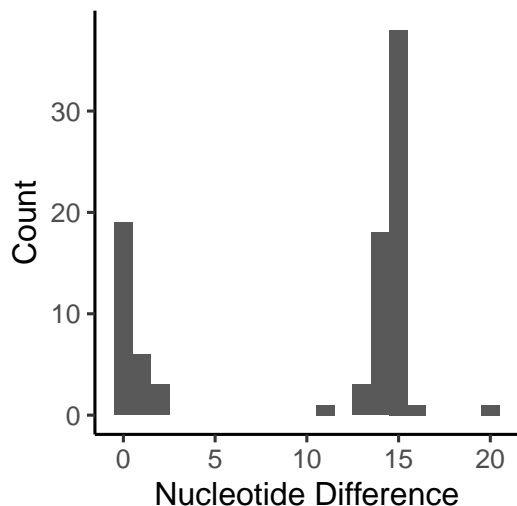


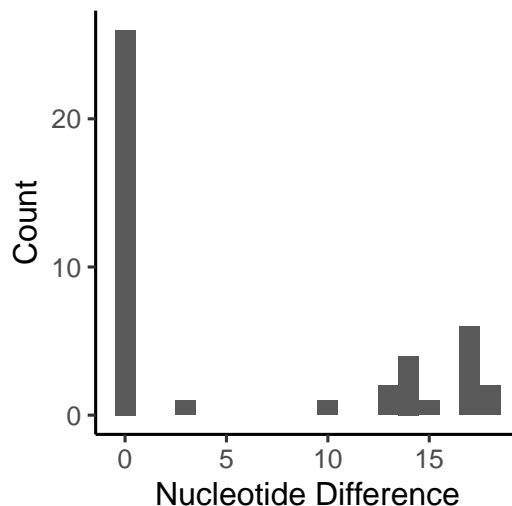
IGHV1-2*04

92 sequences assigned
19 (20.7%) exact matches, in which:
19 unique CDR3
5 unique J



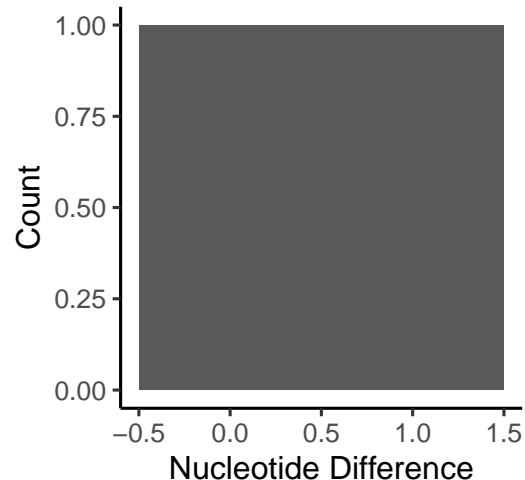
IGHV1-18*01

44 sequences assigned
26 (59.1%) exact matches, in which:
26 unique CDR3
7 unique J



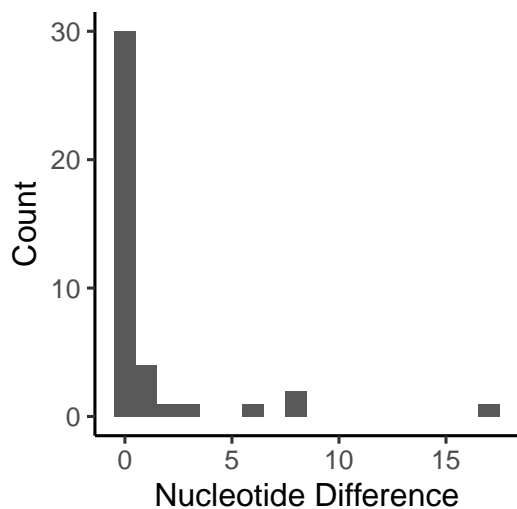
IGHV1-45*02

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



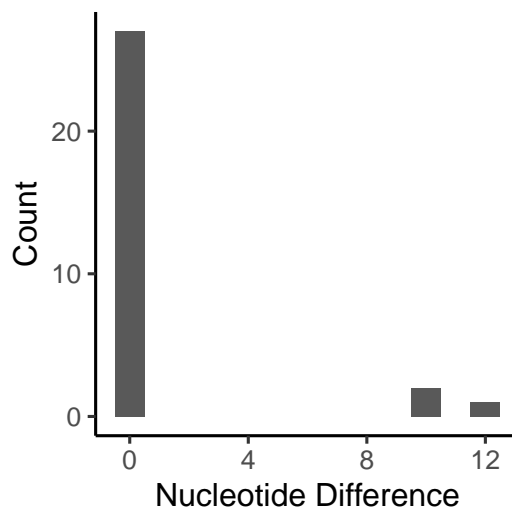
IGHV1-3*01_05

40 sequences assigned
30 (75%) exact matches, in which:
29 unique CDR3
5 unique J



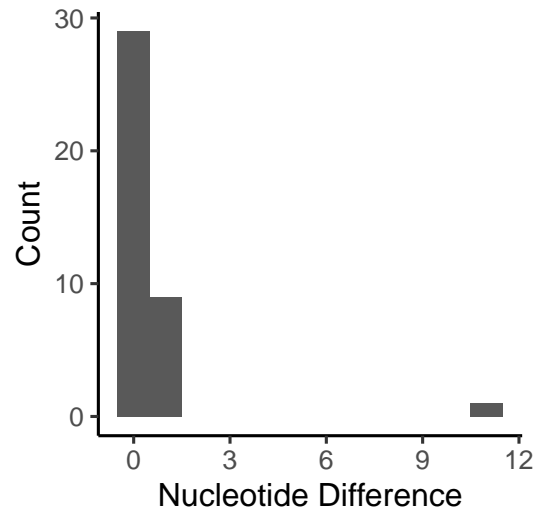
IGHV1-18*04

30 sequences assigned
27 (90%) exact matches, in which:
27 unique CDR3
4 unique J



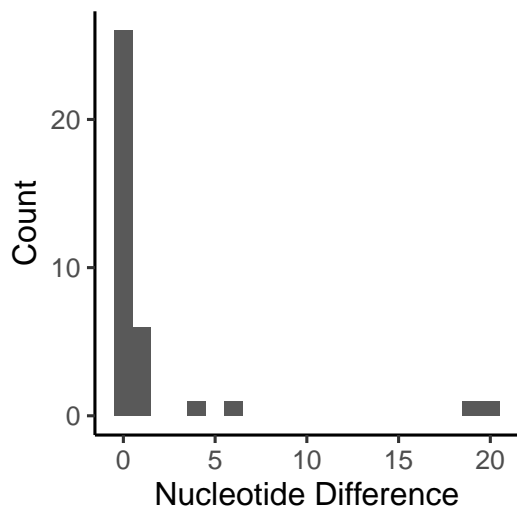
IGHV1-46*01

39 sequences assigned
29 (74.4%) exact matches, in which:
29 unique CDR3
4 unique J



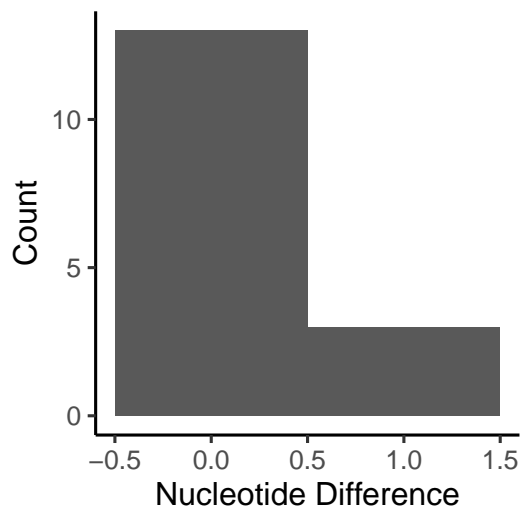
IGHV1-8*01

36 sequences assigned
26 (72.2%) exact matches, in which:
26 unique CDR3
5 unique J



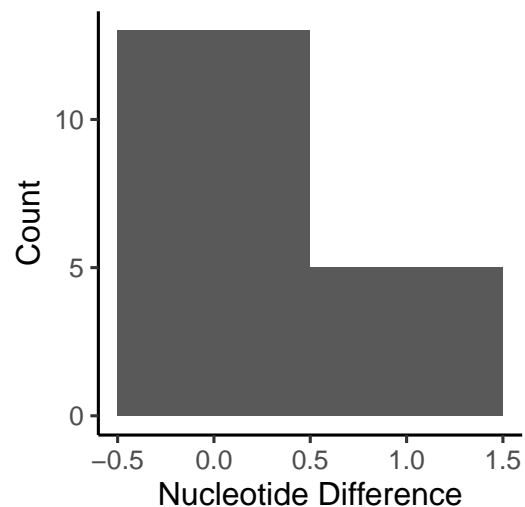
IGHV1-24*01

16 sequences assigned
13 (81.2%) exact matches, in which:
13 unique CDR3
4 unique J



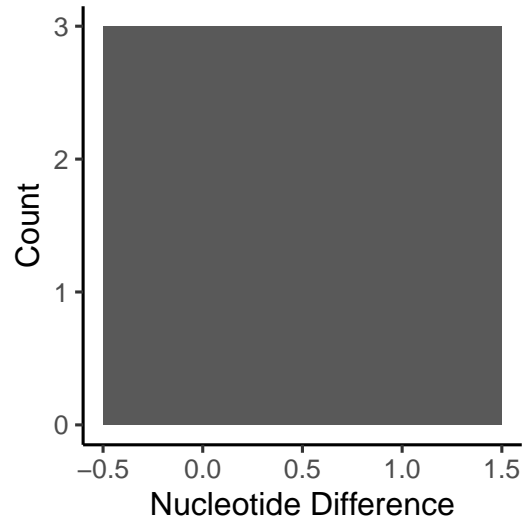
IGHV1-46*03

18 sequences assigned
13 (72.2%) exact matches, in which:
13 unique CDR3
5 unique J



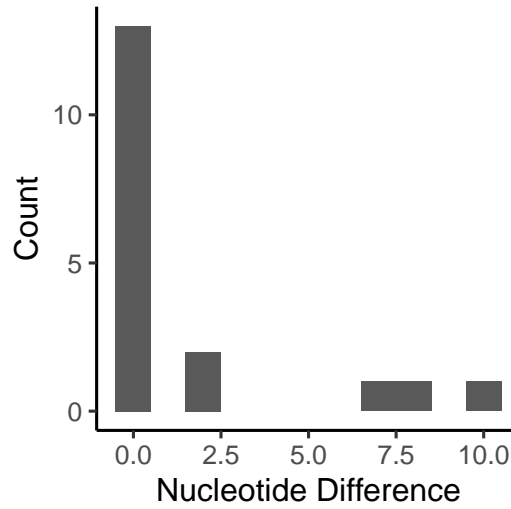
IGHV1-58*01_03

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



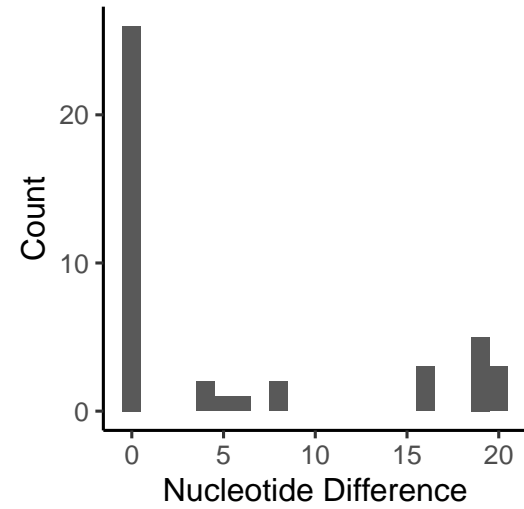
IGHV2-5*02

18 sequences assigned
13 (72.2%) exact matches, in which:
12 unique CDR3
4 unique J



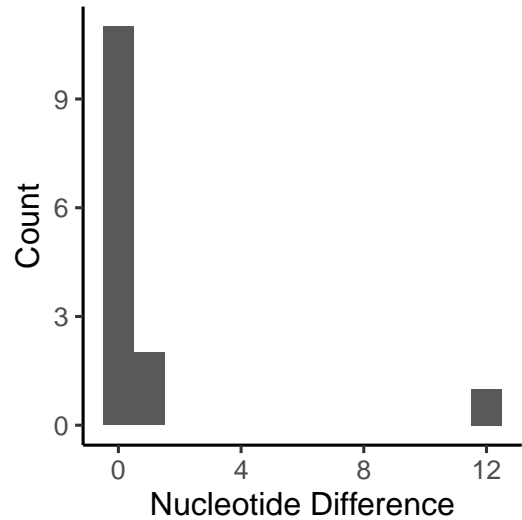
IGHV3-7*03

96 sequences assigned
26 (27.1%) exact matches, in which:
20 unique CDR3
3 unique J



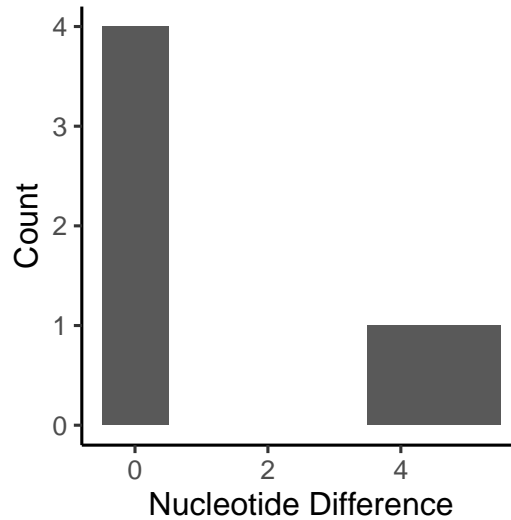
IGHV1-69*02

14 sequences assigned
11 (78.6%) exact matches, in which:
11 unique CDR3
4 unique J



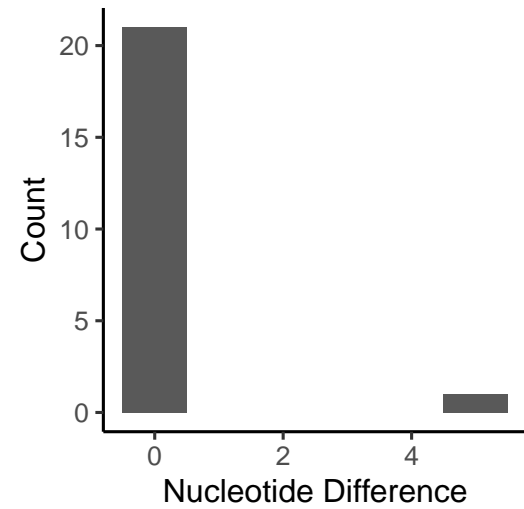
IGHV2-70*11_15

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



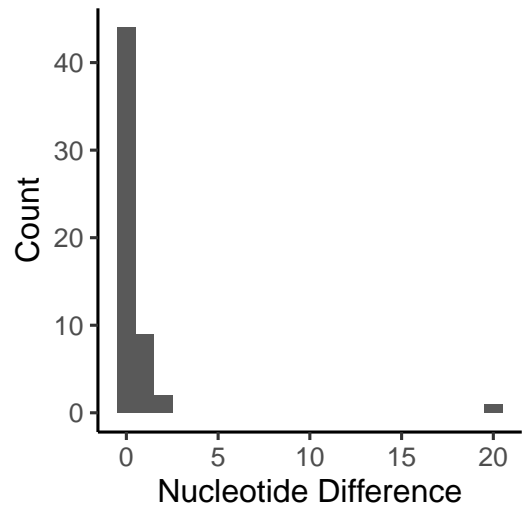
IGHV3-9*01

22 sequences assigned
21 (95.5%) exact matches, in which:
15 unique CDR3
3 unique J



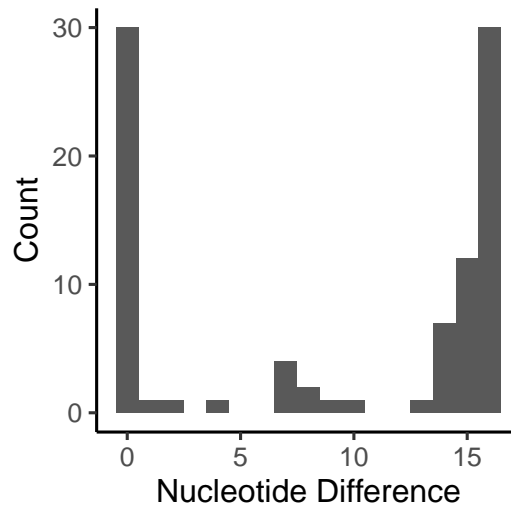
IGHV1-69*04_09

56 sequences assigned
44 (78.6%) exact matches, in which:
44 unique CDR3
6 unique J



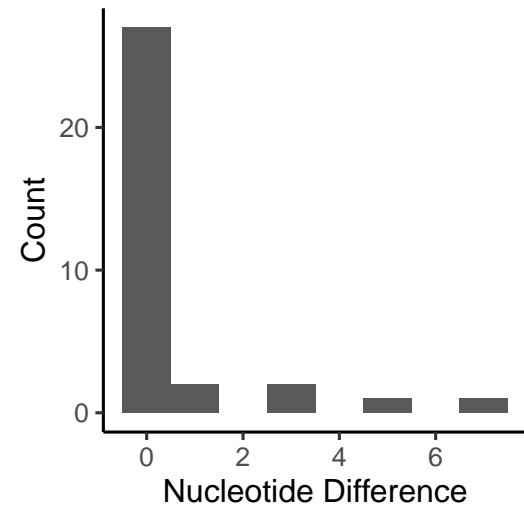
IGHV3-7*01

91 sequences assigned
30 (33%) exact matches, in which:
18 unique CDR3
4 unique J



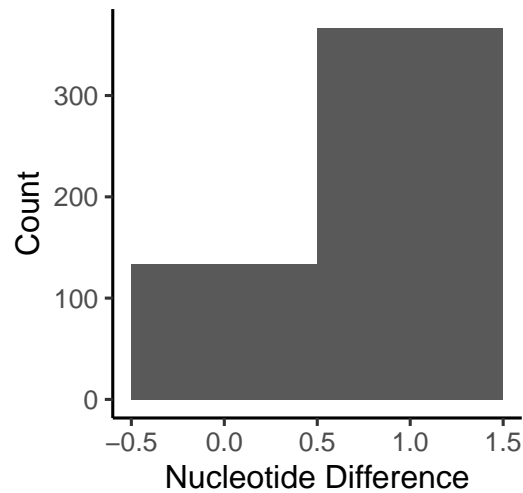
IGHV3-11*01

34 sequences assigned
27 (79.4%) exact matches, in which:
20 unique CDR3
3 unique J



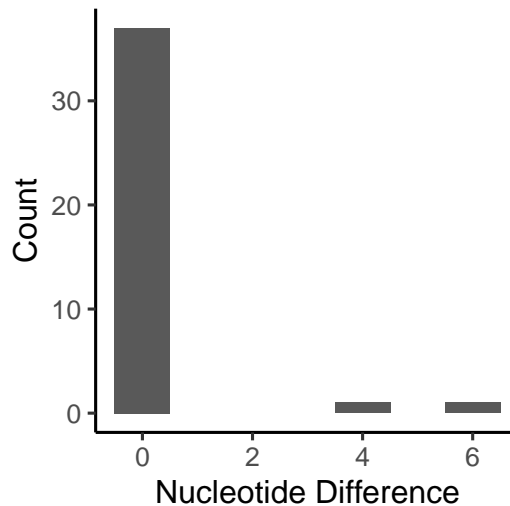
IGHV3-11*06

502 sequences assigned
134 (26.7%) exact matches, in which:
55 unique CDR3
4 unique J



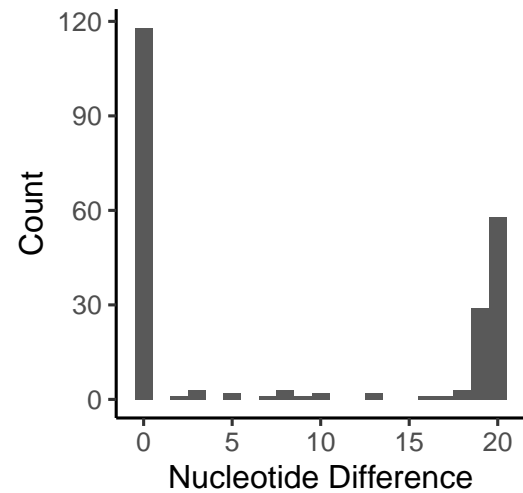
IGHV3-15*01_02

39 sequences assigned
37 (94.9%) exact matches, in which:
24 unique CDR3
4 unique J



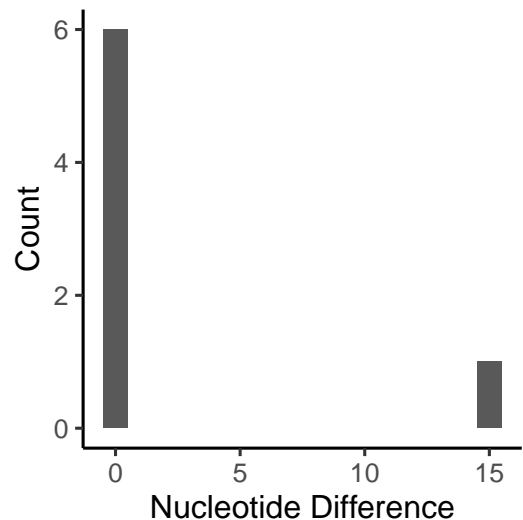
IGHV3-23*01_04

235 sequences assigned
118 (50.2%) exact matches, in which:
79 unique CDR3
6 unique J



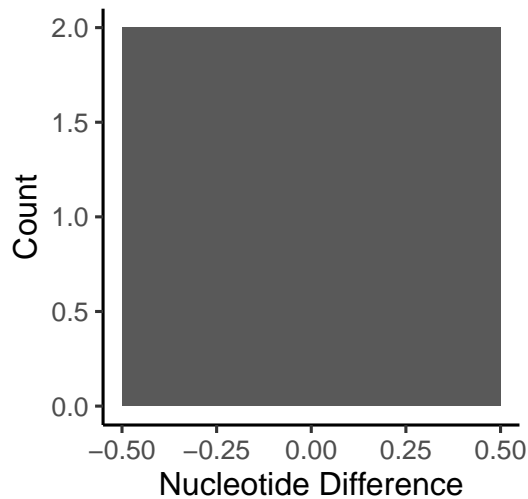
IGHV3-13*01

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



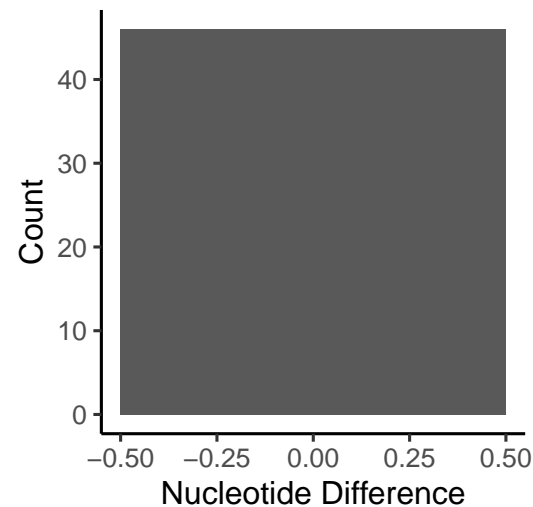
IGHV3-20*01_02

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



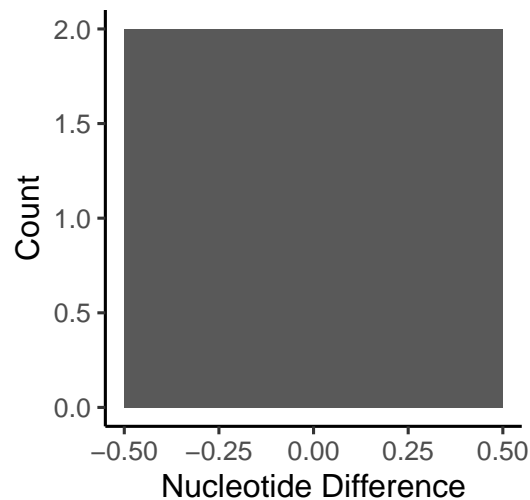
IGHV3-30*01

46 sequences assigned
46 (100%) exact matches, in which:
34 unique CDR3
4 unique J



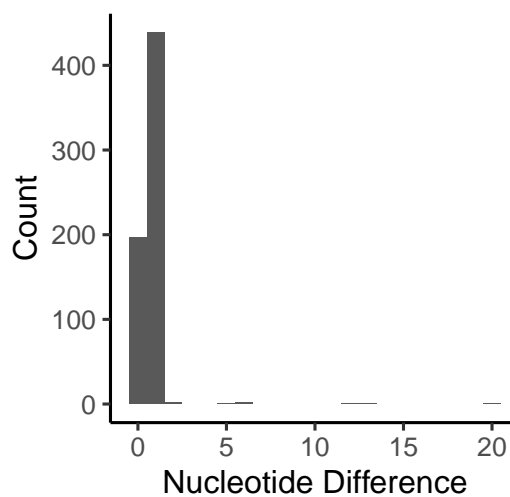
IGHV3-13*05

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



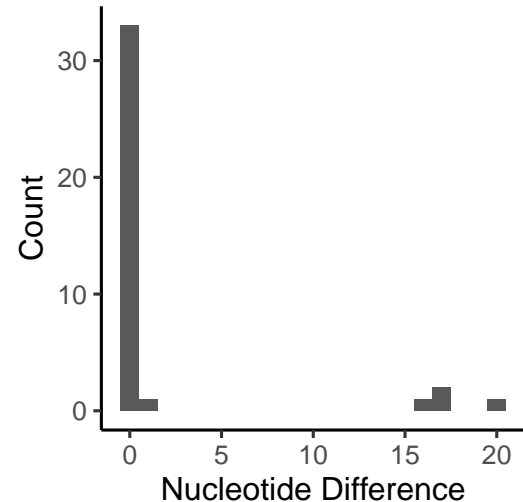
IGHV3-21*01_02

644 sequences assigned
197 (30.6%) exact matches, in which:
80 unique CDR3
6 unique J



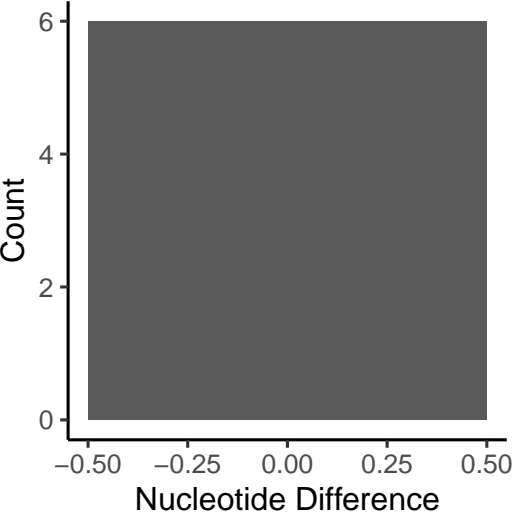
IGHV3-33*01

40 sequences assigned
33 (82.5%) exact matches, in which:
25 unique CDR3
2 unique J



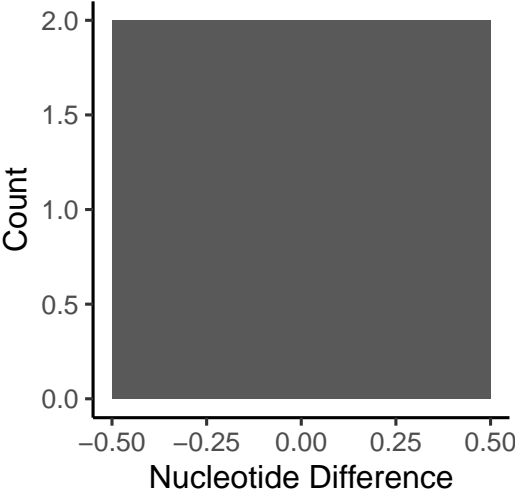
IGHV3-43*01

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



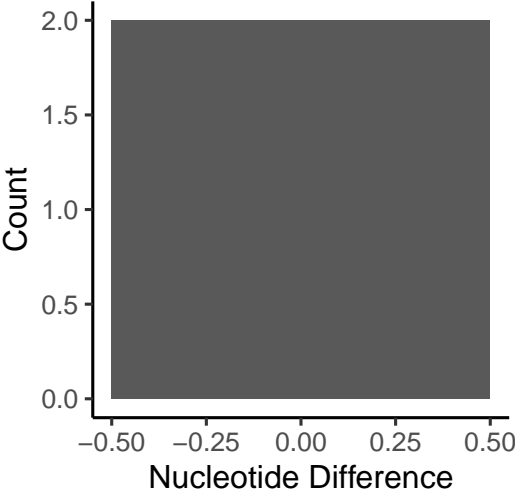
IGHV3-49*03_05

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



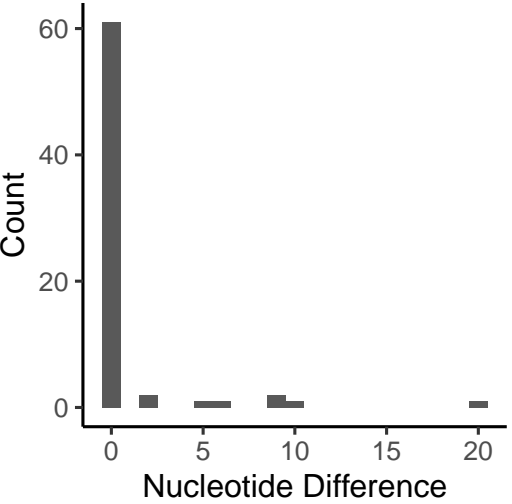
IGHV3-64*02_07

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



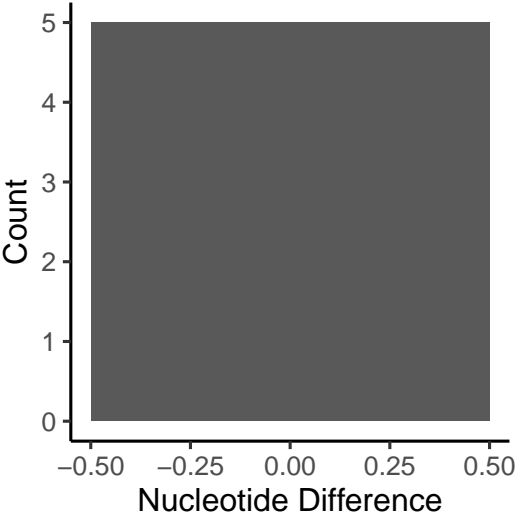
IGHV3-48*02

71 sequences assigned
61 (85.9%) exact matches, in which:
42 unique CDR3
5 unique J



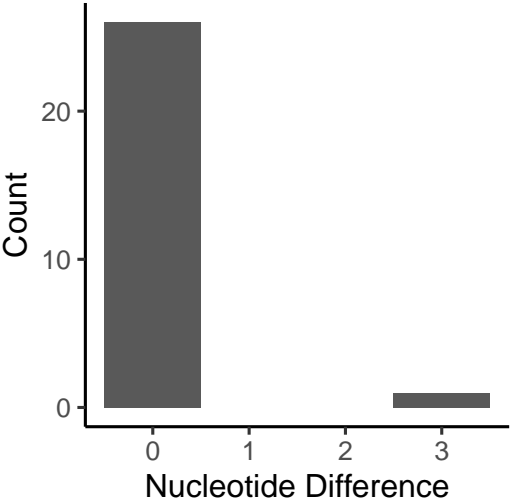
IGHV3-53*04

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



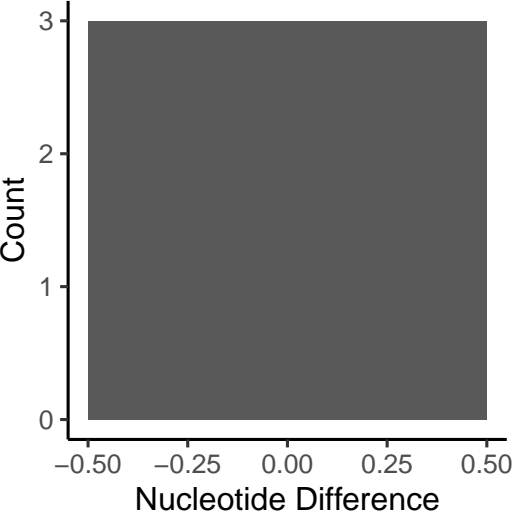
IGHV3-66*01

27 sequences assigned
26 (96.3%) exact matches, in which:
17 unique CDR3
4 unique J



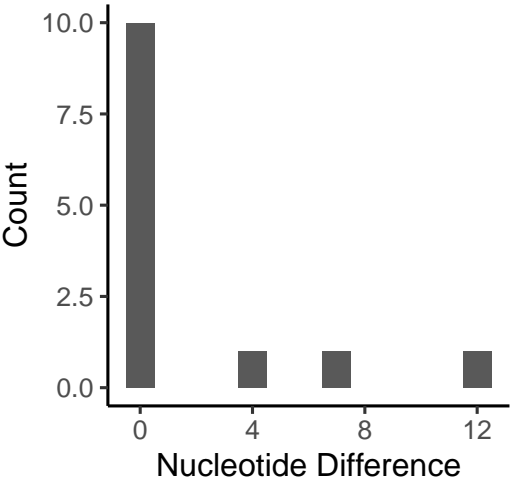
IGHV3-49*04

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



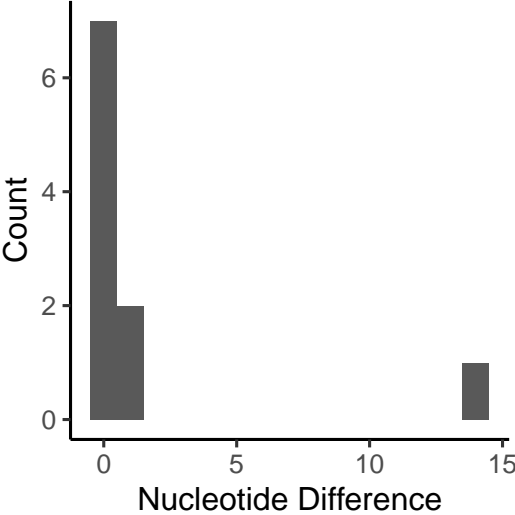
IGHV3-53*01_02

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



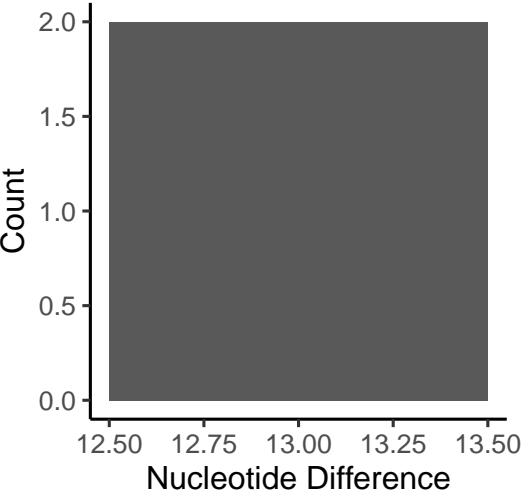
IGHV3-66*02

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



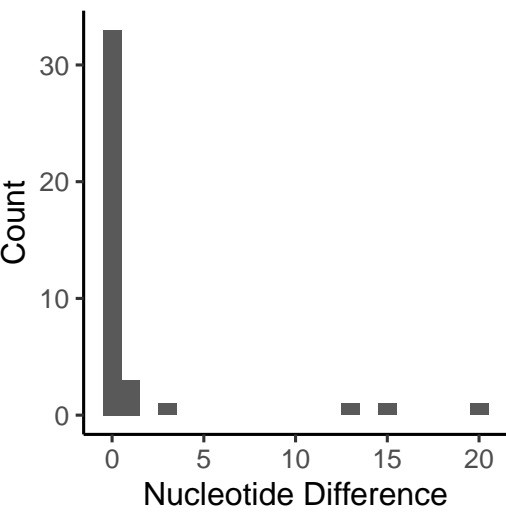
IGHV3-69-1*01

2 sequences assigned
No exact matches.



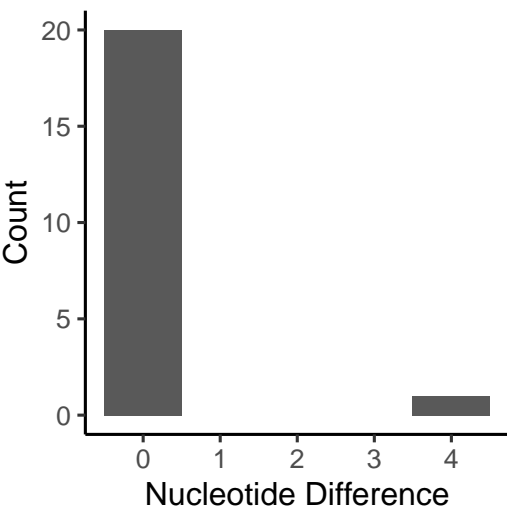
IGHV3-74*01_02

44 sequences assigned
33 (75%) exact matches, in which:
22 unique CDR3
5 unique J



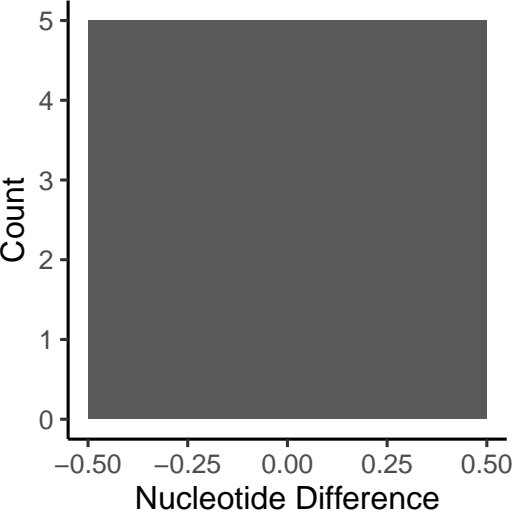
IGHV4-4*02_03

21 sequences assigned
20 (95.2%) exact matches, in which:
20 unique CDR3
4 unique J



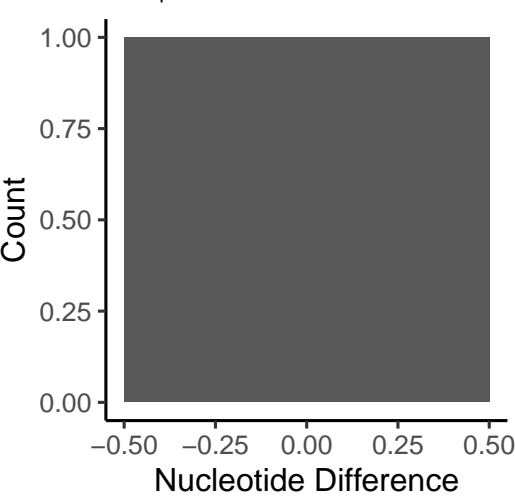
IGHV3-72*01

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



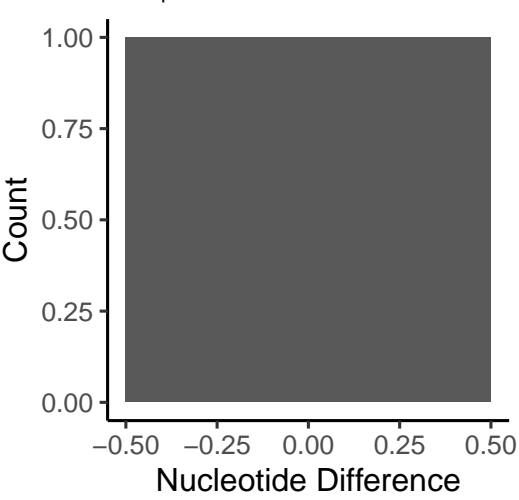
IGHV3-43D*03

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



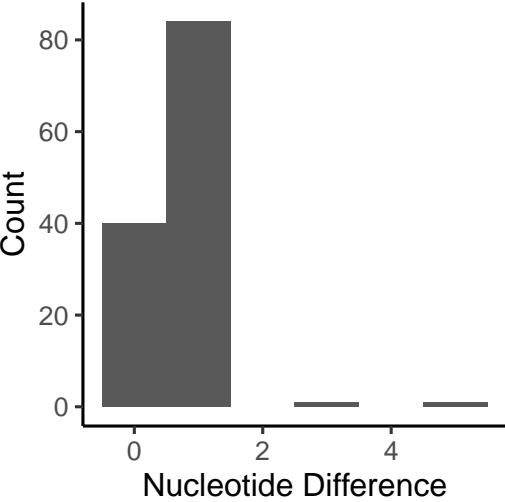
IGHV4-28*02_05

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



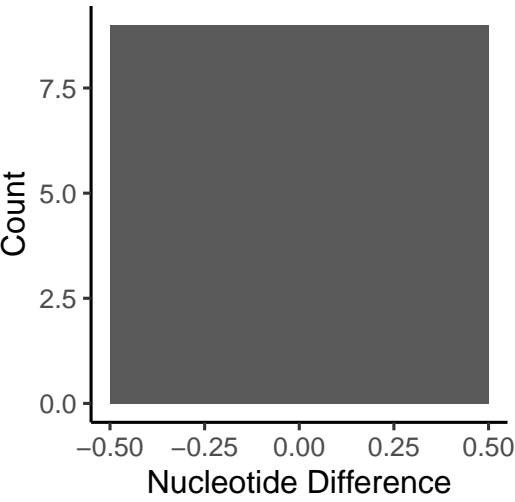
IGHV3-73*01_02

126 sequences assigned
40 (31.7%) exact matches, in which:
20 unique CDR3
3 unique J



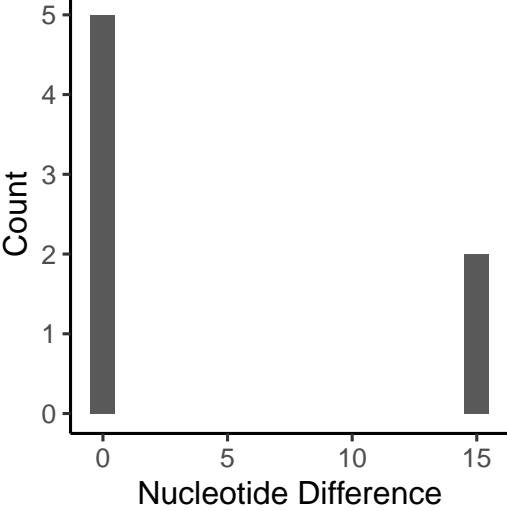
IGHV3-64D*06

25 sequences assigned
9 (36%) exact matches, in which:
7 unique CDR3
4 unique J



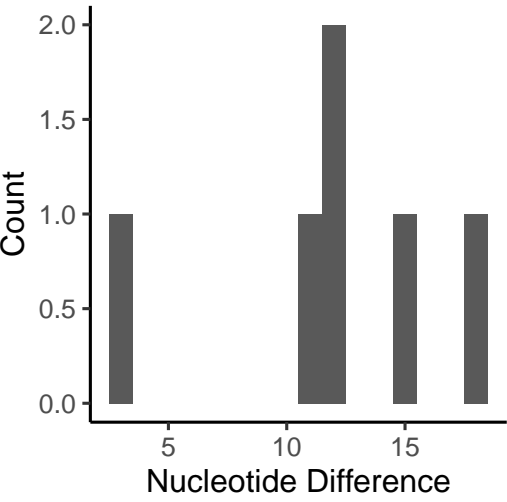
IGHV4-31*01

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



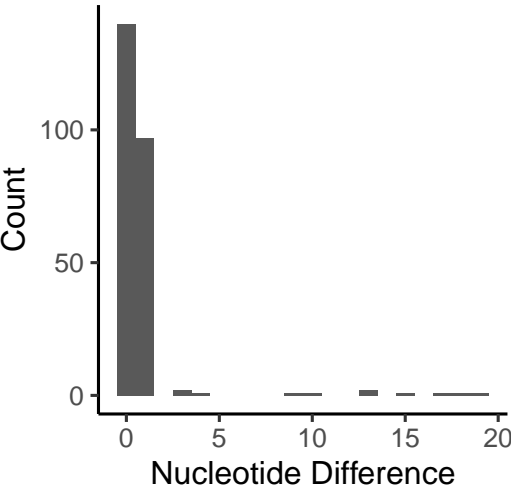
IGHV4-31*02

7 sequences assigned
No exact matches.



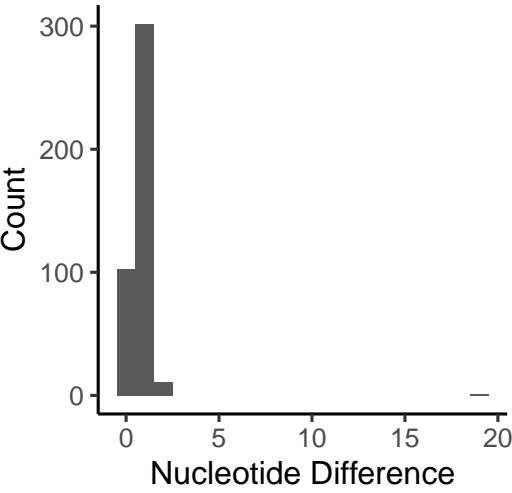
IGHV4-39*02_C258G

253 sequences assigned
140 (55.3%) exact matches, in which:
122 unique CDR3
5 unique J



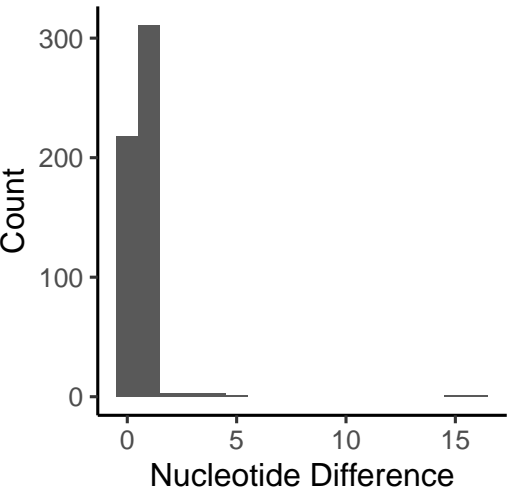
IGHV4-61*01

417 sequences assigned
103 (24.7%) exact matches, in which:
61 unique CDR3
4 unique J



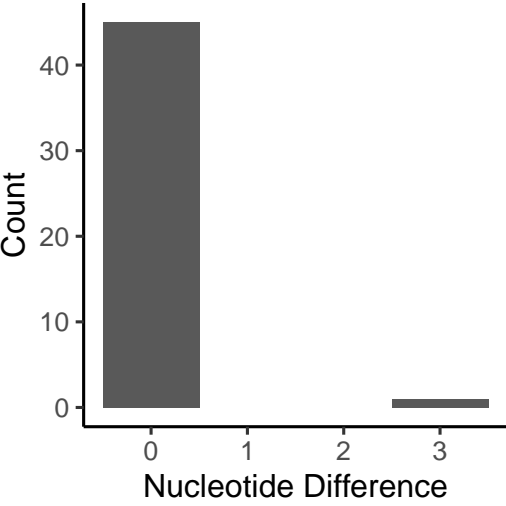
IGHV4-34*01_02

543 sequences assigned
218 (40.1%) exact matches, in which:
165 unique CDR3
6 unique J



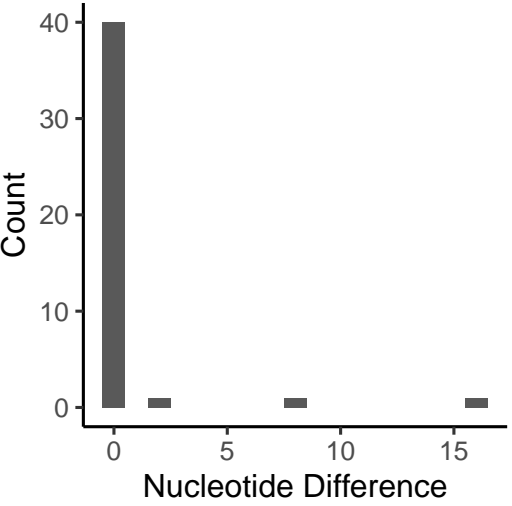
IGHV4-59*01_07

48 sequences assigned
45 (93.8%) exact matches, in which:
45 unique CDR3
5 unique J



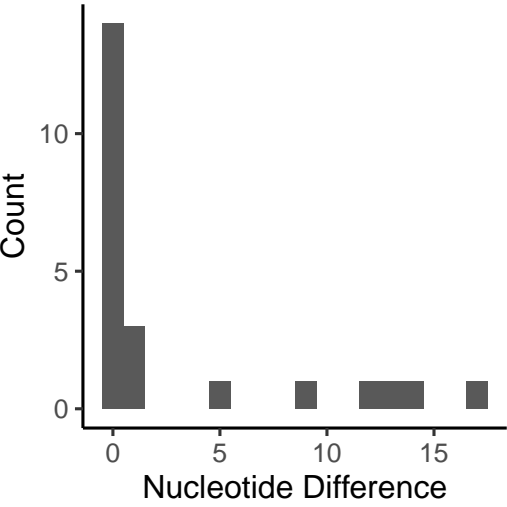
IGHV4-61*02

45 sequences assigned
40 (88.9%) exact matches, in which:
39 unique CDR3
5 unique J



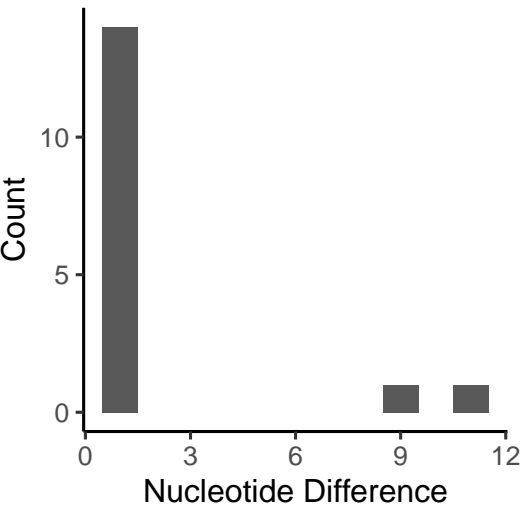
IGHV4-38-2*02

23 sequences assigned
14 (60.9%) exact matches, in which:
14 unique CDR3
6 unique J



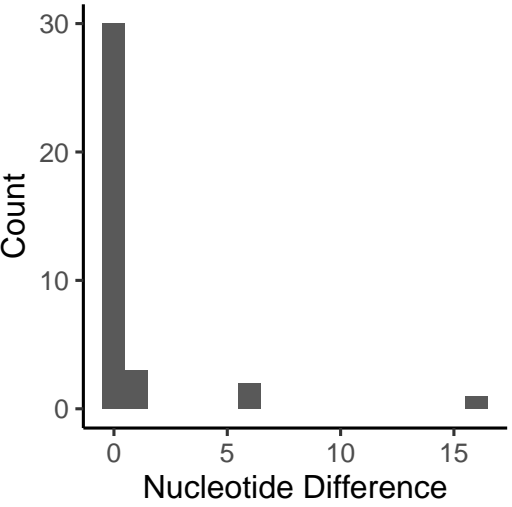
IGHV4-59*11

16 sequences assigned
No exact matches.



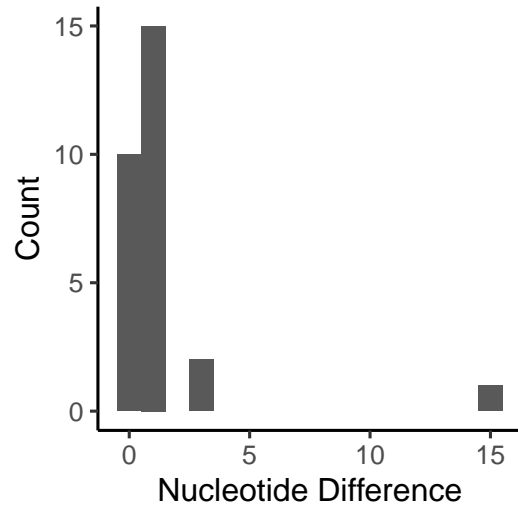
IGHV5-10-1*01_03

36 sequences assigned
30 (83.3%) exact matches, in which:
28 unique CDR3
4 unique J



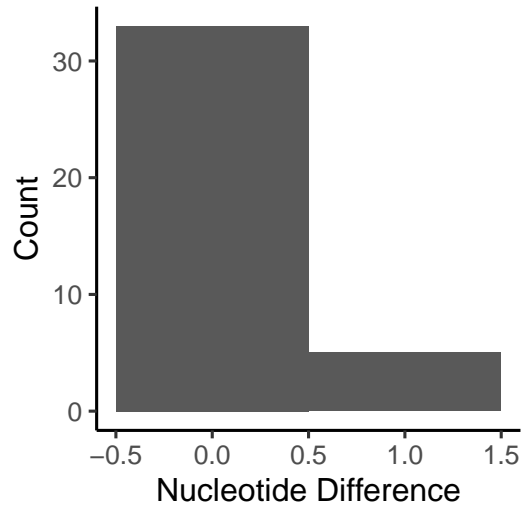
IGHV5-51*07

28 sequences assigned
10 (35.7%) exact matches, in which:
10 unique CDR3
5 unique J



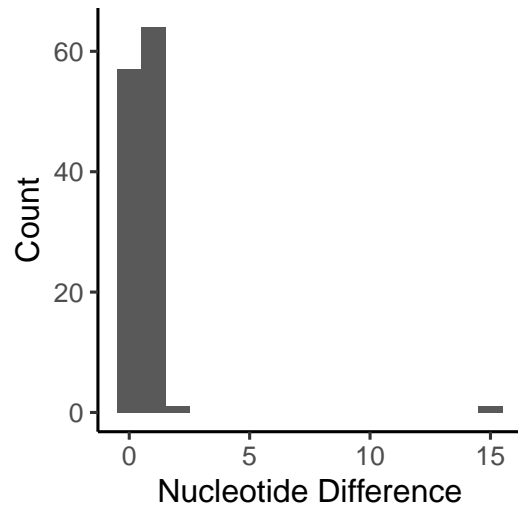
IGHV7-4-1*02

38 sequences assigned
33 (86.8%) exact matches, in which:
33 unique CDR3
5 unique J



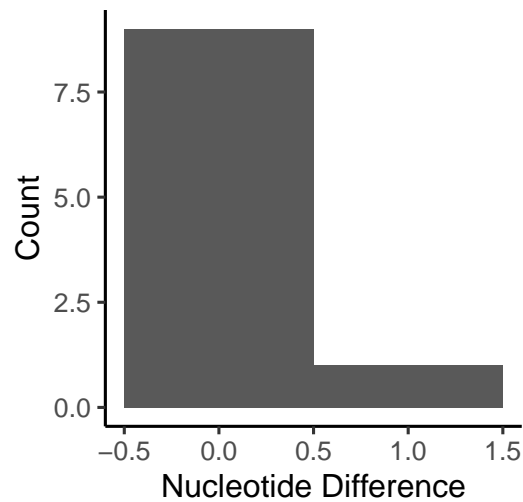
IGHV5-51*01_03

123 sequences assigned
57 (46.3%) exact matches, in which:
46 unique CDR3
5 unique J

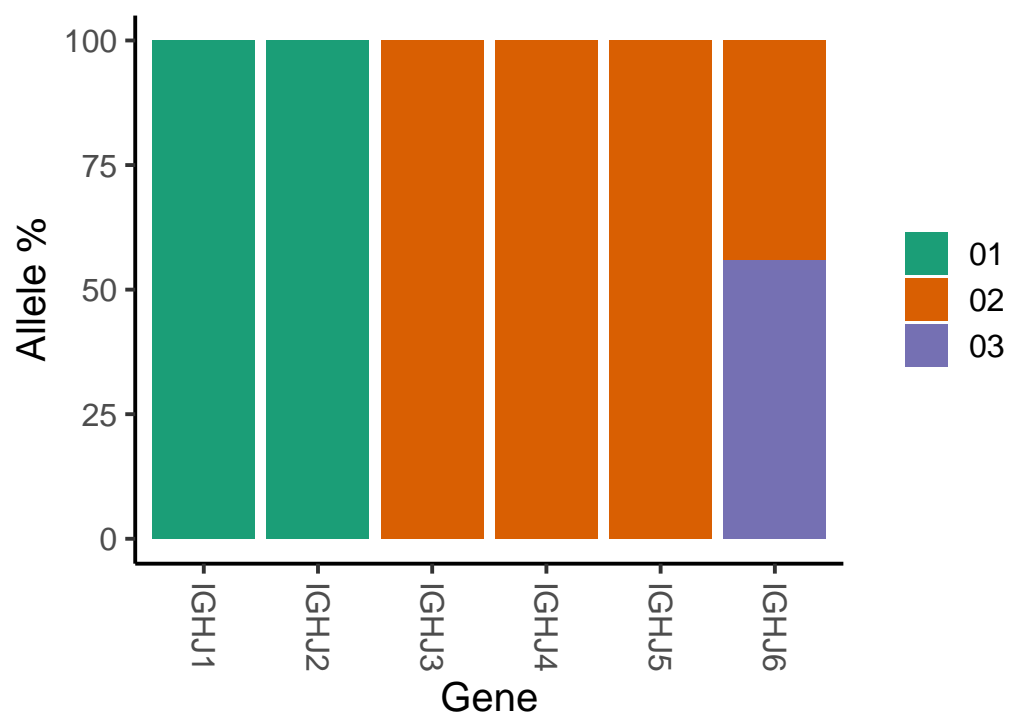


IGHV6-1*01_02

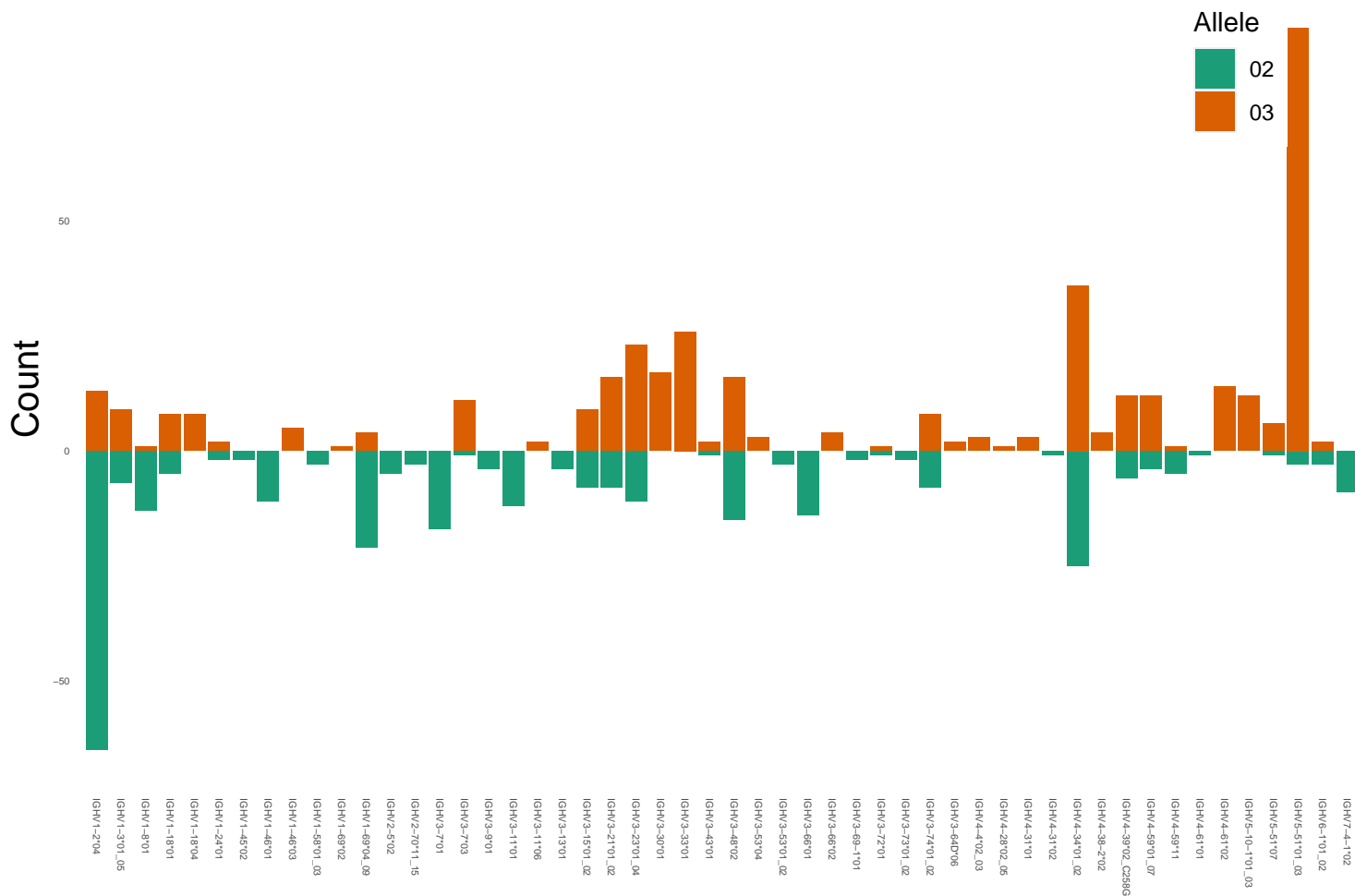
10 sequences assigned
9 (90%) exact matches, in which:
9 unique CDR3
4 unique J



Allele Usage



Sequence Count by IGHJ6 allele usage



Warning – no inferred sequences found.