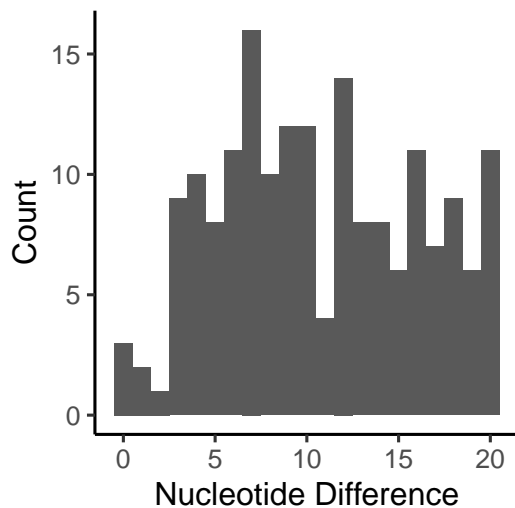


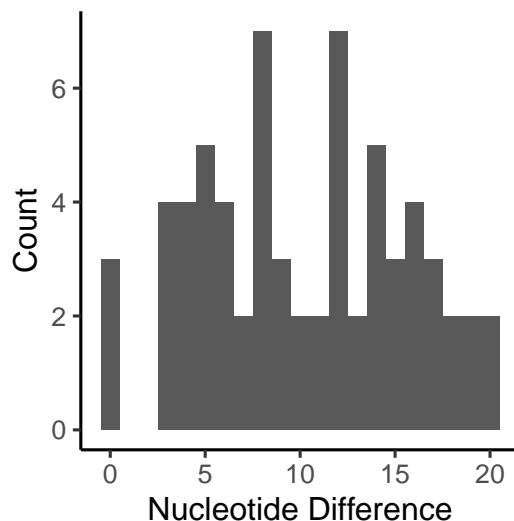
IGHV1-2*02

207 sequences assigned
3 (1.4%) exact matches, in which:
3 unique CDR3
2 unique J



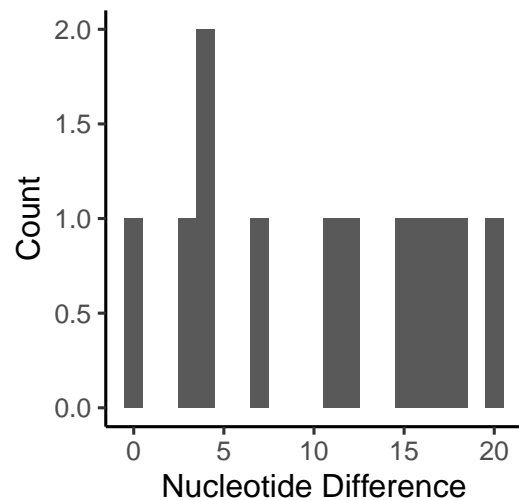
IGHV1-3*01_05

76 sequences assigned
3 (3.9%) exact matches, in which:
3 unique CDR3
2 unique J



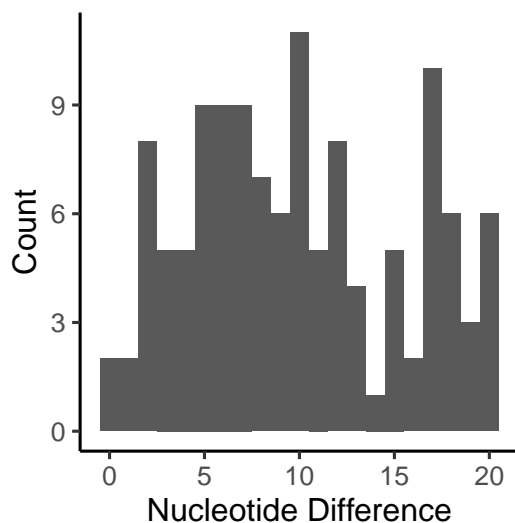
IGHV1-24*01

15 sequences assigned
1 (6.7%) exact matches, in which:
1 unique CDR3
1 unique J



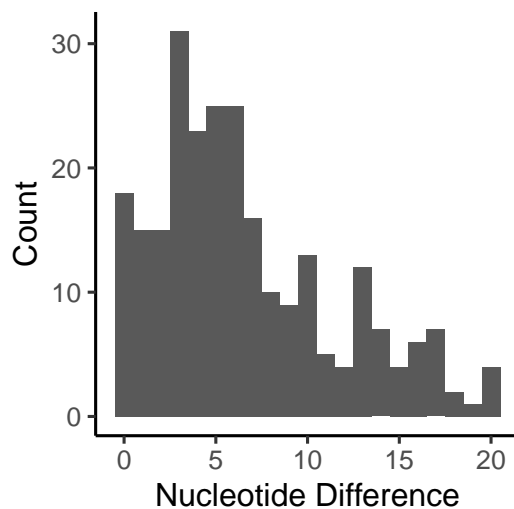
IGHV1-2*06

187 sequences assigned
2 (1.1%) exact matches, in which:
2 unique CDR3
2 unique J



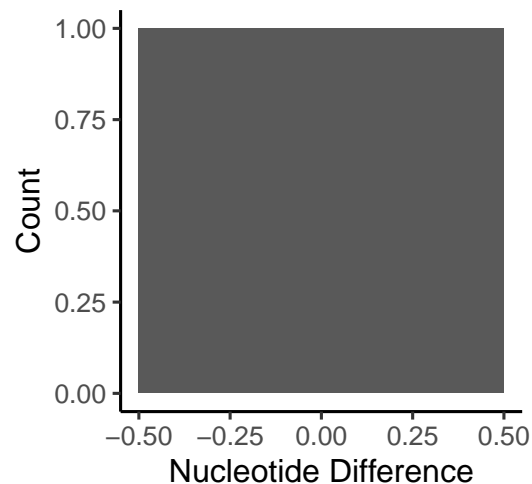
IGHV1-8*01

284 sequences assigned
18 (6.3%) exact matches, in which:
18 unique CDR3
5 unique J



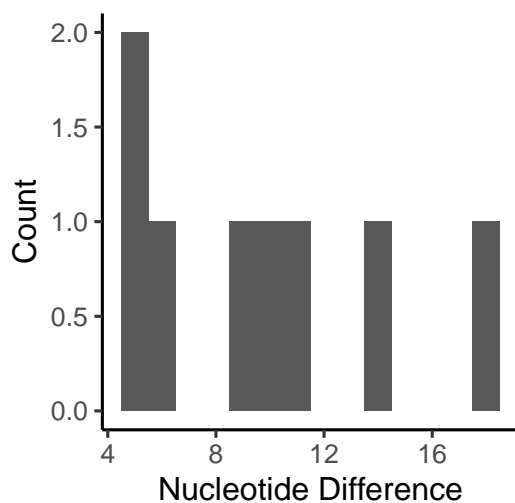
IGHV1-45*02

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



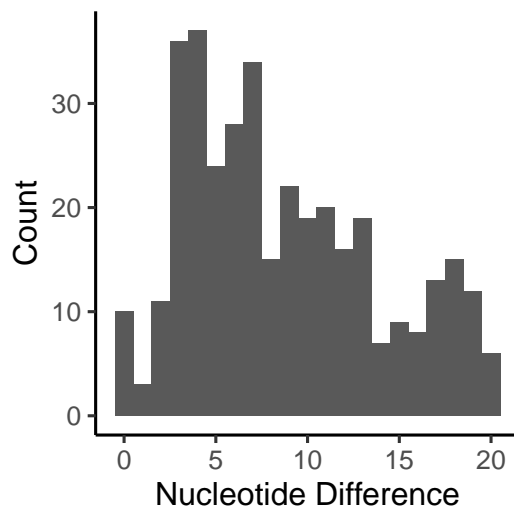
IGHV1-3*04

10 sequences assigned
No exact matches.



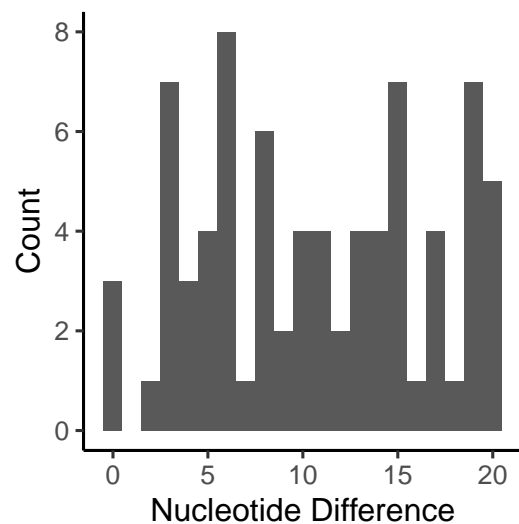
IGHV1-18*01

446 sequences assigned
10 (2.2%) exact matches, in which:
10 unique CDR3
3 unique J



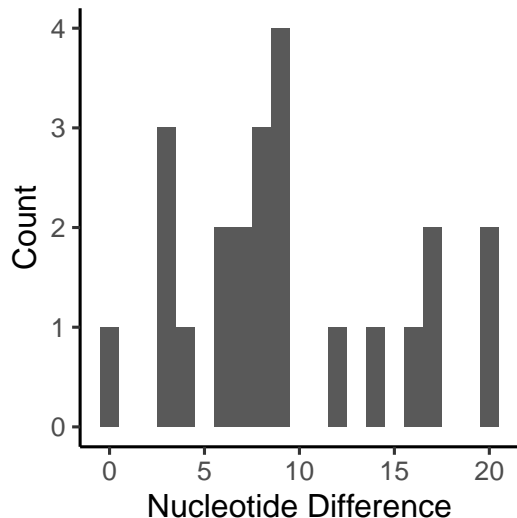
IGHV1-46*01

110 sequences assigned
3 (2.7%) exact matches, in which:
2 unique CDR3
2 unique J



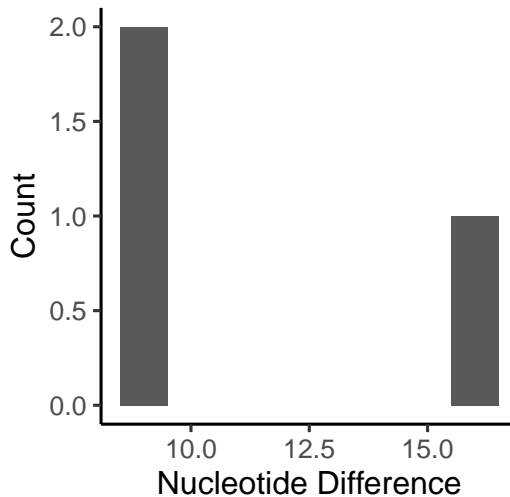
IGHV1-46*03

28 sequences assigned
1 (3.6%) exact matches, in which:
1 unique CDR3
1 unique J



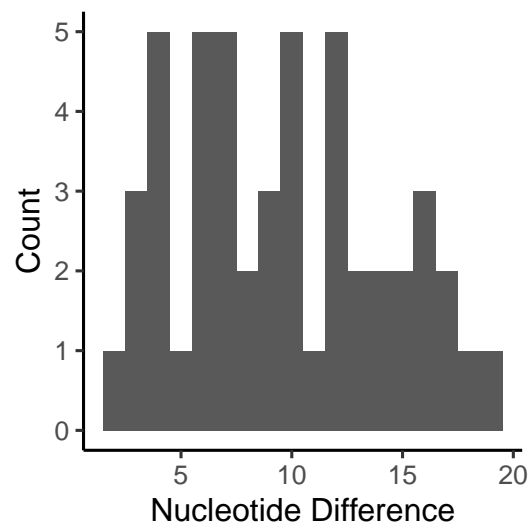
IGHV1-69*02

8 sequences assigned
No exact matches.



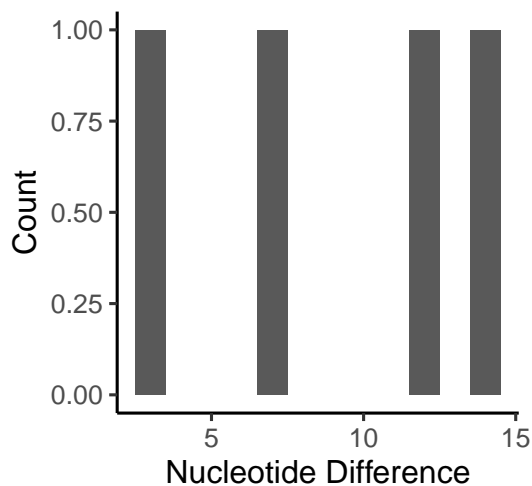
IGHV2-5*01

64 sequences assigned
No exact matches.



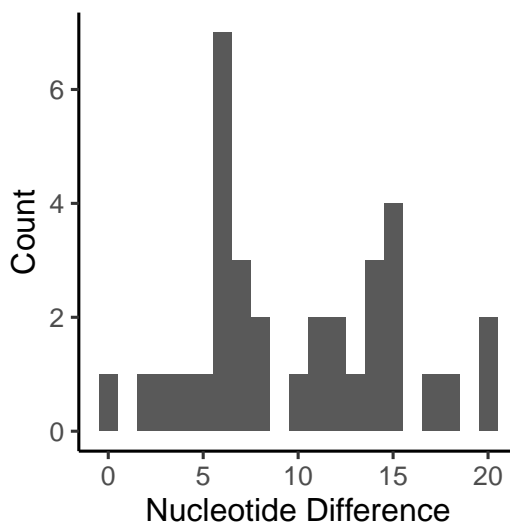
IGHV1-58*02

4 sequences assigned
No exact matches.



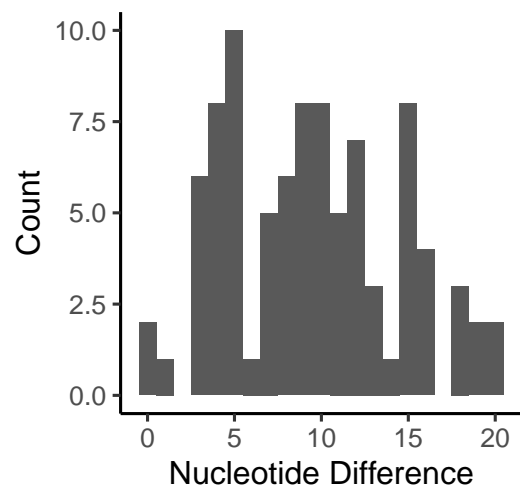
IGHV1-69*01_12_13

46 sequences assigned
1 (2.2%) exact matches, in which:
1 unique CDR3
1 unique J



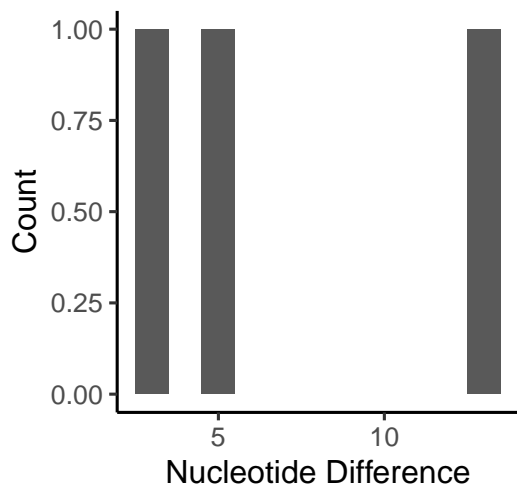
IGHV2-5*02

97 sequences assigned
2 (2.1%) exact matches, in which:
2 unique CDR3
2 unique J



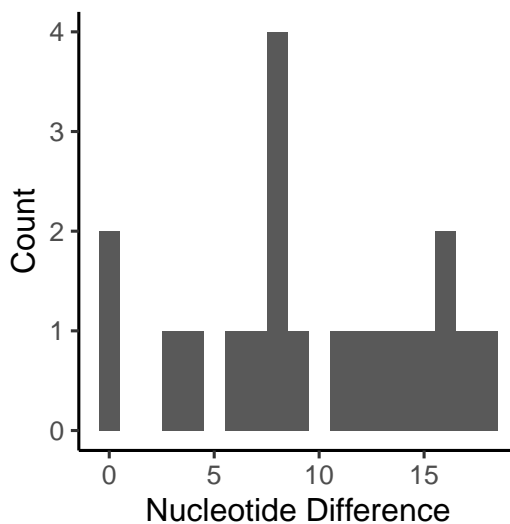
IGHV1-58*01_03

3 sequences assigned
No exact matches.



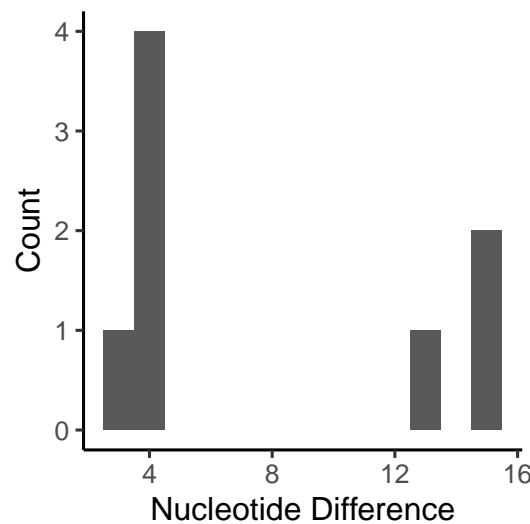
IGHV1-69*04_09

27 sequences assigned
2 (7.4%) exact matches, in which:
2 unique CDR3
1 unique J



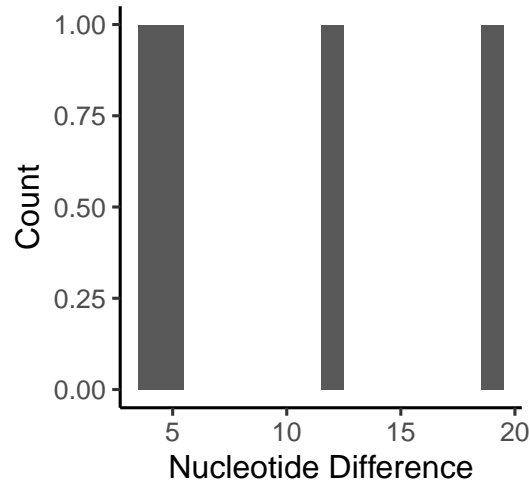
IGHV2-26*01

10 sequences assigned
No exact matches.



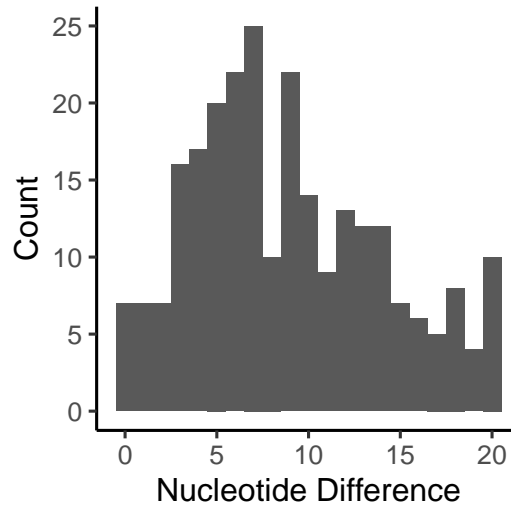
IGHV2-70*01

5 sequences assigned
No exact matches.



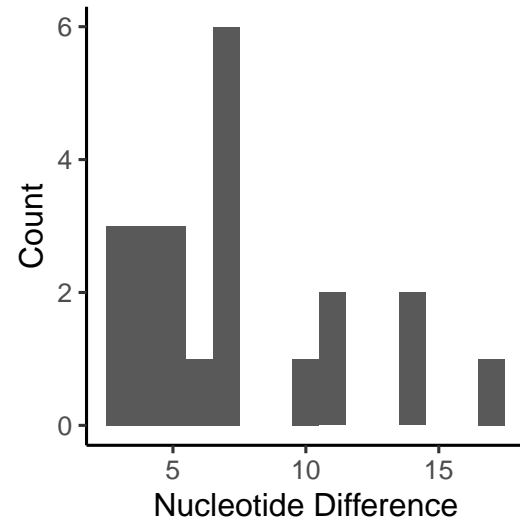
IGHV3-11*01

313 sequences assigned
7 (2.2%) exact matches, in which:
6 unique CDR3
3 unique J



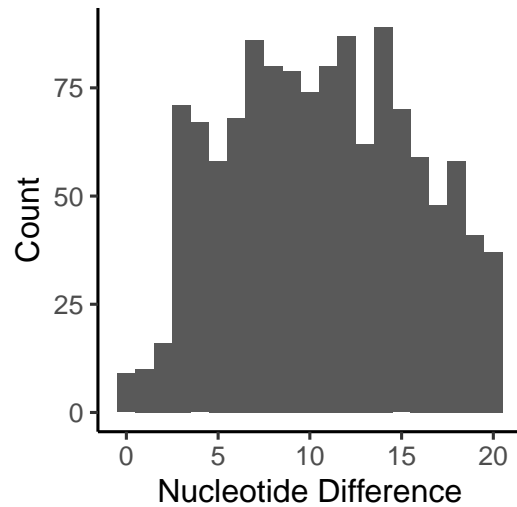
IGHV3-20*01_02

22 sequences assigned
No exact matches.



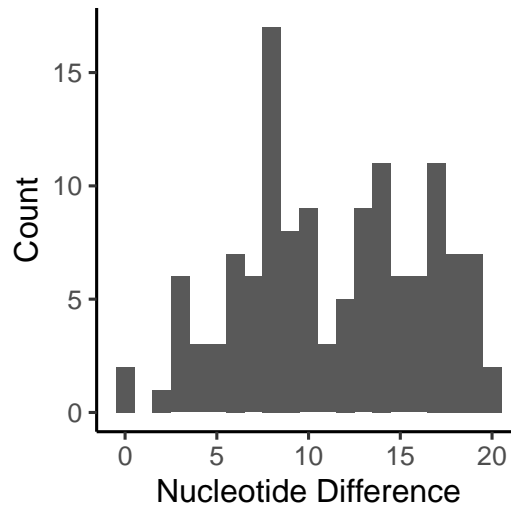
IGHV3-7*01

1432 sequences assigned
9 (0.6%) exact matches, in which:
7 unique CDR3
4 unique J



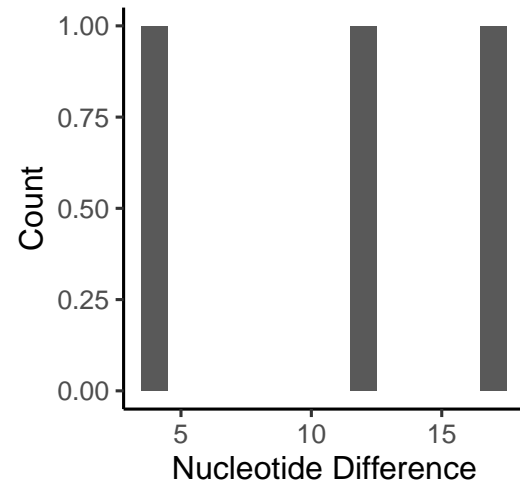
IGHV3-13*01

144 sequences assigned
2 (1.4%) exact matches, in which:
2 unique CDR3
2 unique J



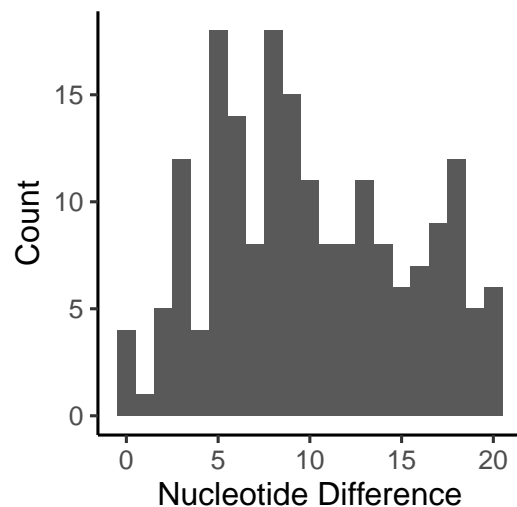
IGHV3-20*03_04

5 sequences assigned
No exact matches.



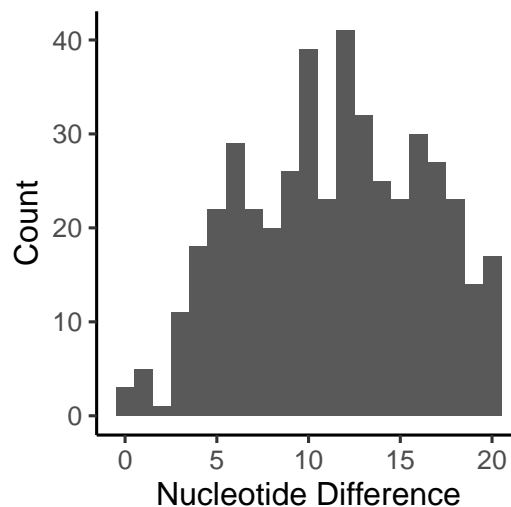
IGHV3-9*01

247 sequences assigned
4 (1.6%) exact matches, in which:
4 unique CDR3
3 unique J



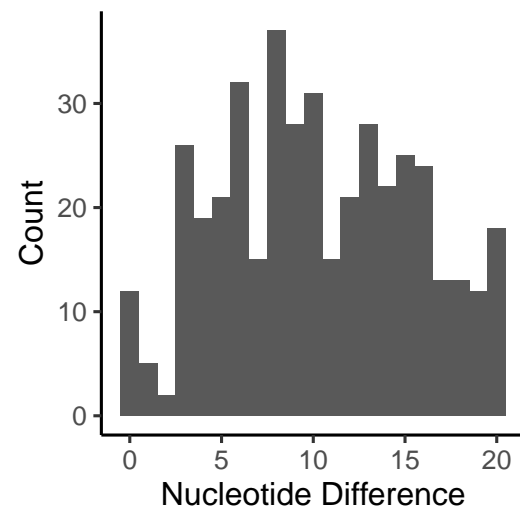
IGHV3-15*01_02

536 sequences assigned
3 (0.6%) exact matches, in which:
3 unique CDR3
3 unique J



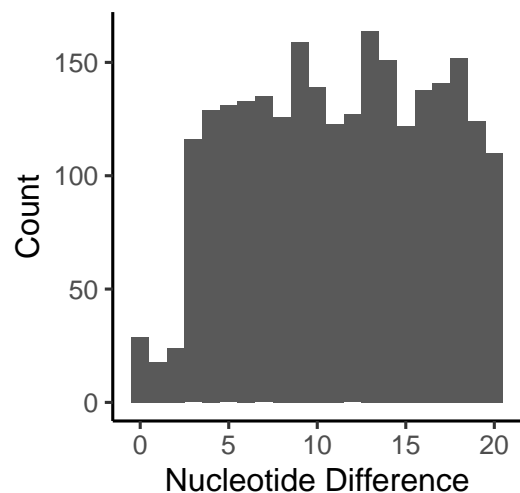
IGHV3-21*01_02

498 sequences assigned
12 (2.4%) exact matches, in which:
10 unique CDR3
3 unique J



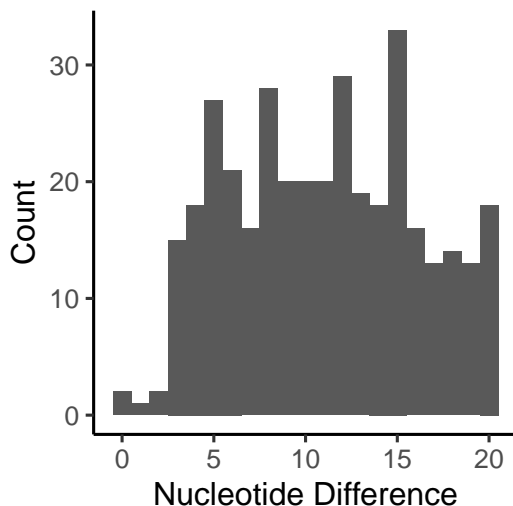
IGHV3-23*01_04

3258 sequences assigned
29 (0.9%) exact matches, in which:
26 unique CDR3
5 unique J



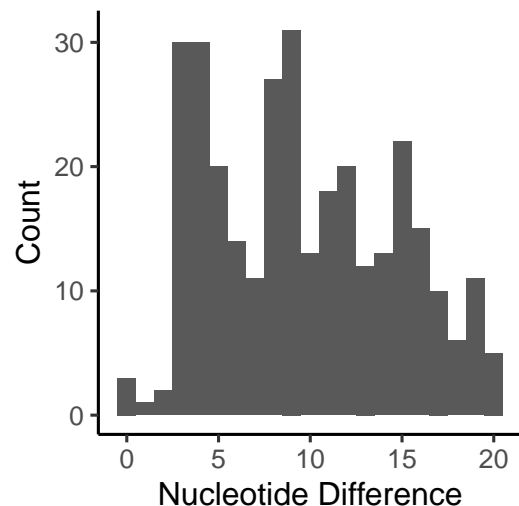
IGHV3-33*01

461 sequences assigned
2 (0.4%) exact matches, in which:
2 unique CDR3
1 unique J



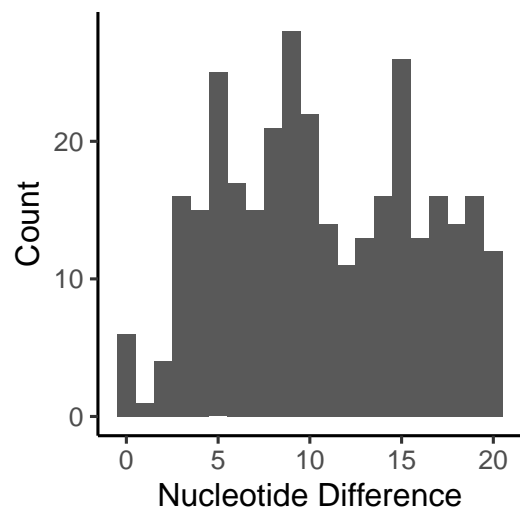
IGHV3-48*02

370 sequences assigned
3 (0.8%) exact matches, in which:
2 unique CDR3
2 unique J



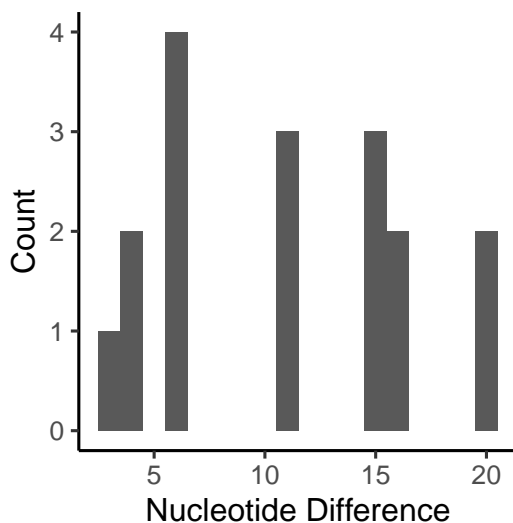
IGHV3-30-3*01

419 sequences assigned
6 (1.4%) exact matches, in which:
6 unique CDR3
3 unique J



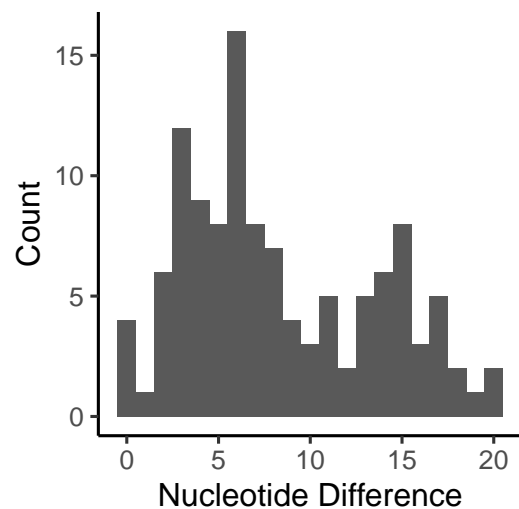
IGHV3-43*01

27 sequences assigned
No exact matches.



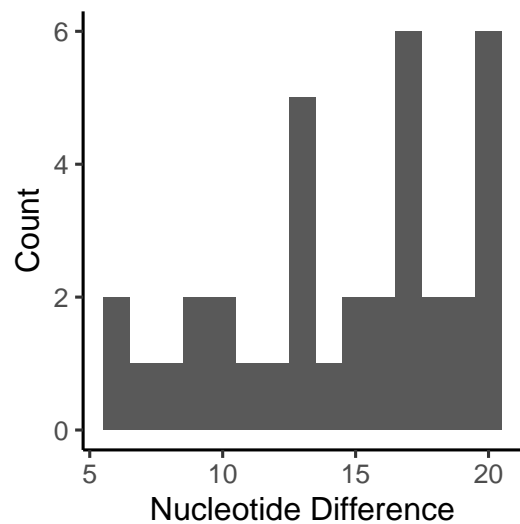
IGHV3-49*03_05

140 sequences assigned
4 (2.9%) exact matches, in which:
4 unique CDR3
2 unique J



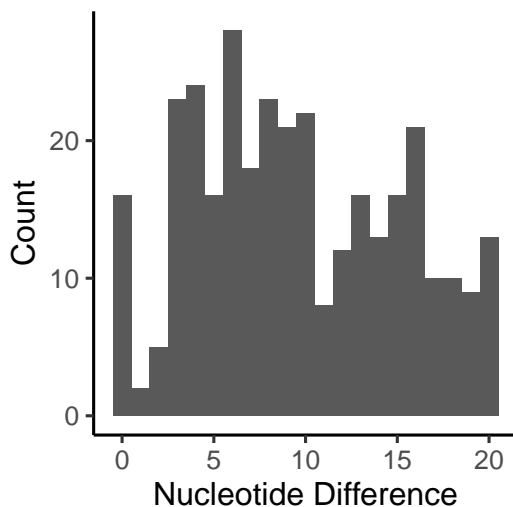
IGHV3-30*04

49 sequences assigned
No exact matches.



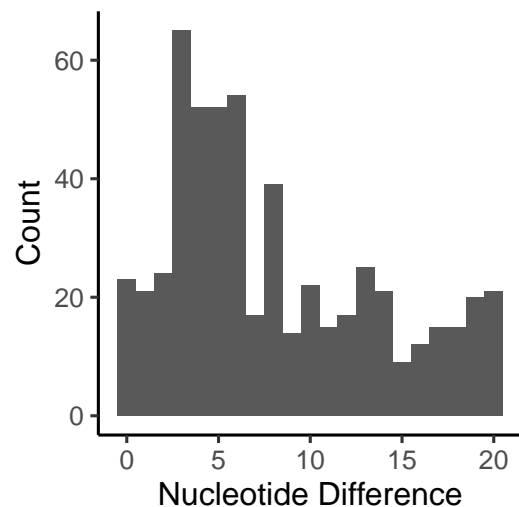
IGHV3-48*01

376 sequences assigned
16 (4.3%) exact matches, in which:
9 unique CDR3
3 unique J



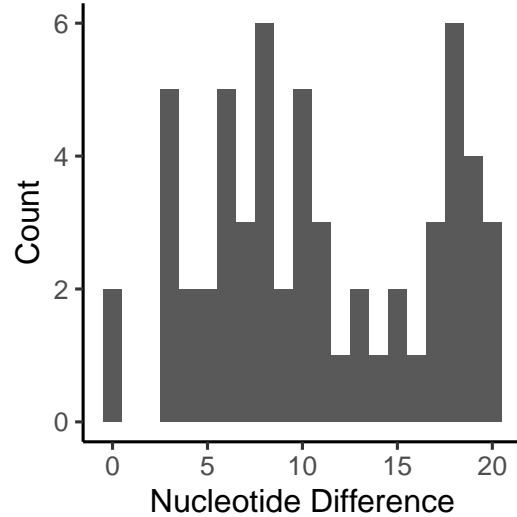
IGHV3-53*01_02

638 sequences assigned
23 (3.6%) exact matches, in which:
18 unique CDR3
6 unique J



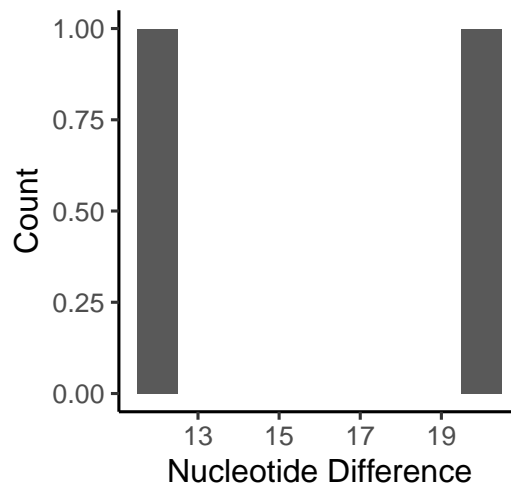
IGHV3-64*01

59 sequences assigned
2 (3.4%) exact matches, in which:
1 unique CDR3
1 unique J



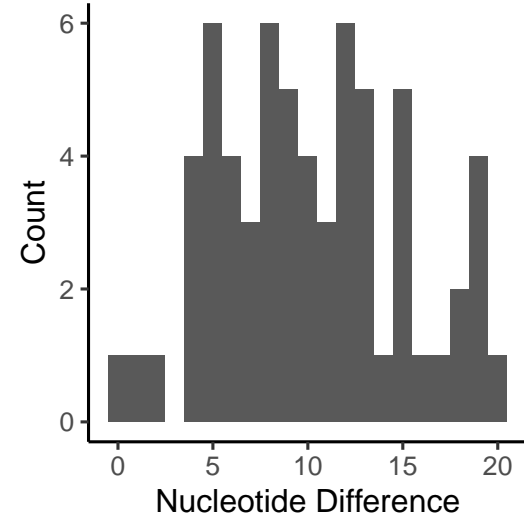
IGHV3-69-1*01

2 sequences assigned
No exact matches.



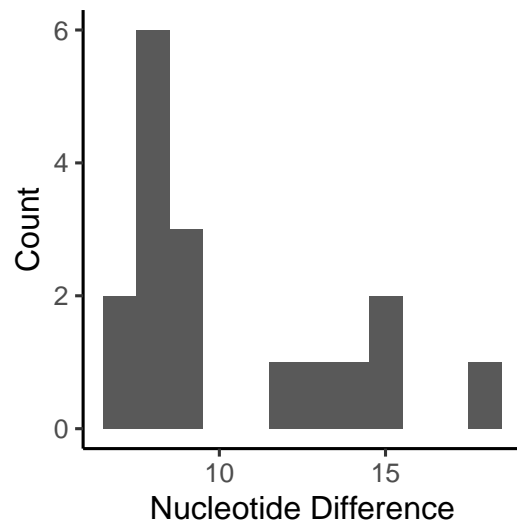
IGHV3-73*01_02

72 sequences assigned
1 (1.4%) exact matches, in which:
1 unique CDR3
1 unique J



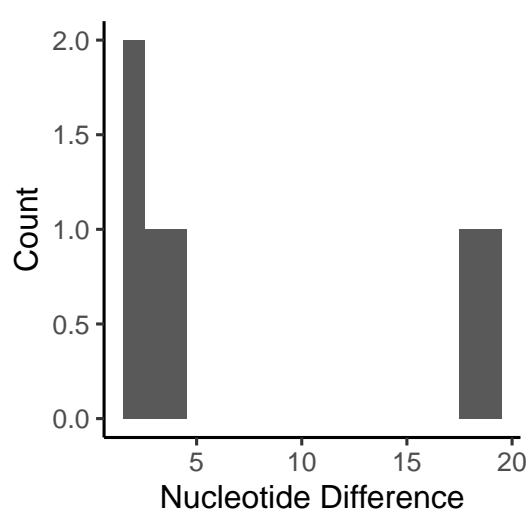
IGHV3-64*02_07

19 sequences assigned
No exact matches.



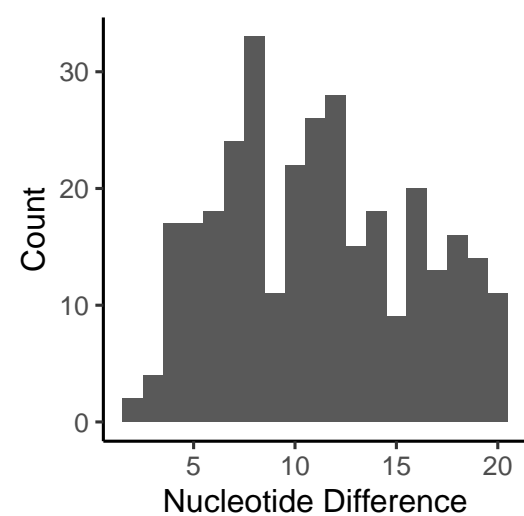
IGHV3-69-1*02

10 sequences assigned
No exact matches.



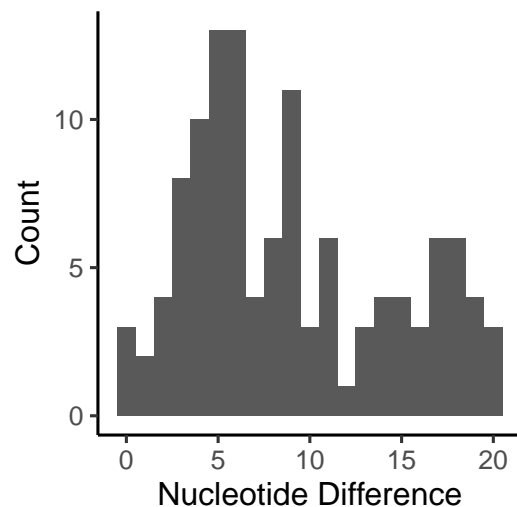
IGHV3-74*03

367 sequences assigned
No exact matches.



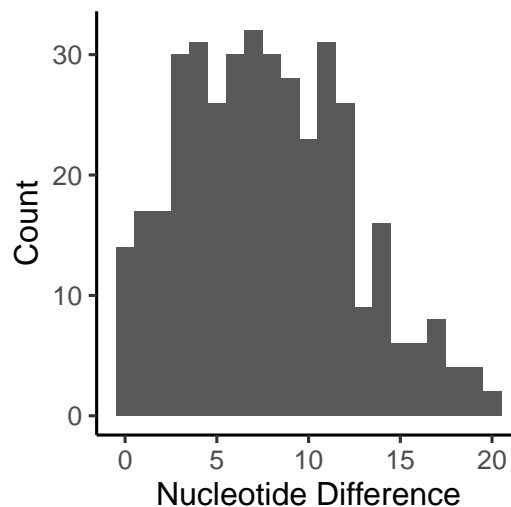
IGHV3-66*02

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



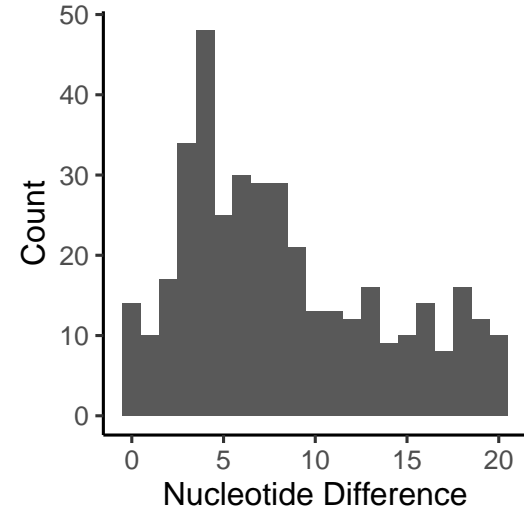
IGHV3-72*01

402 sequences assigned
14 (3.5%) exact matches, in which:
10 unique CDR3
4 unique J



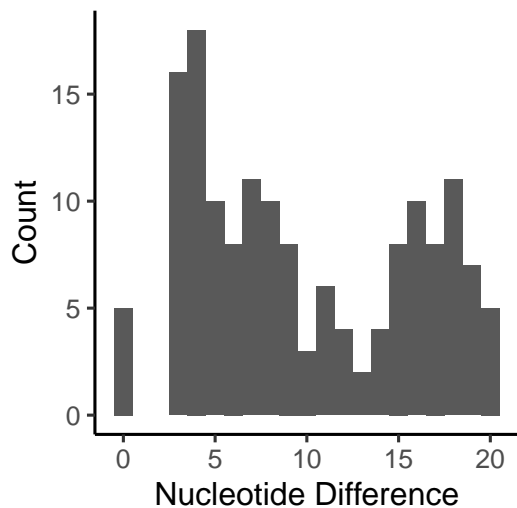
IGHV3-74*01_02

441 sequences assigned
14 (3.2%) exact matches, in which:
10 unique CDR3
3 unique J



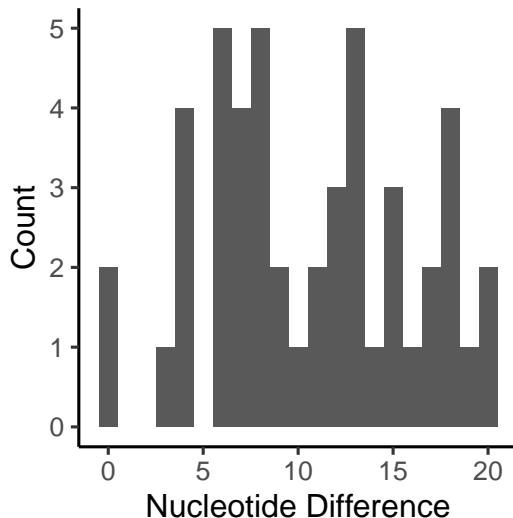
IGHV4-4*07

202 sequences assigned
5 (2.5%) exact matches, in which:
4 unique CDR3
2 unique J



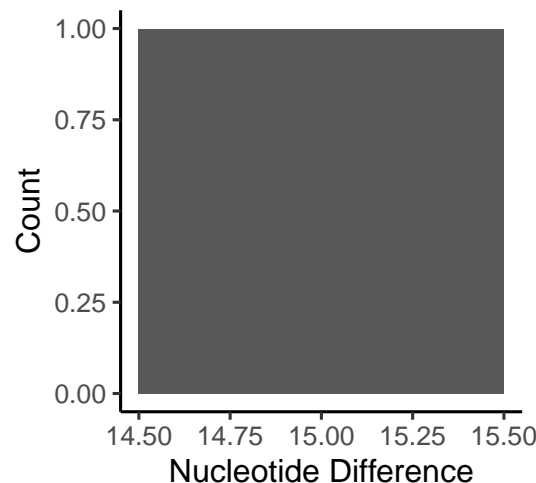
IGHV4-30-2*01

64 sequences assigned
2 (3.1%) exact matches, in which:
1 unique CDR3
1 unique J



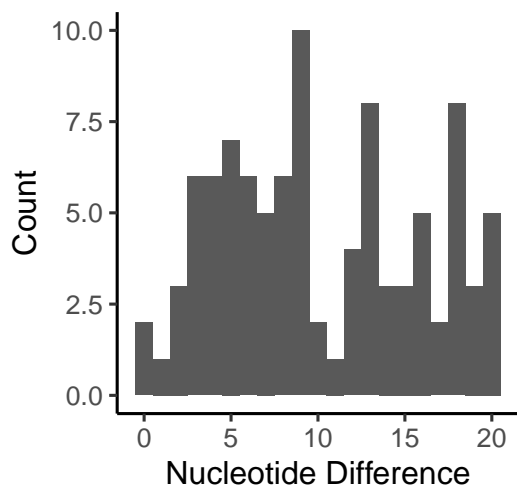
IGHV4-38-2*02

1 sequences assigned
No exact matches.



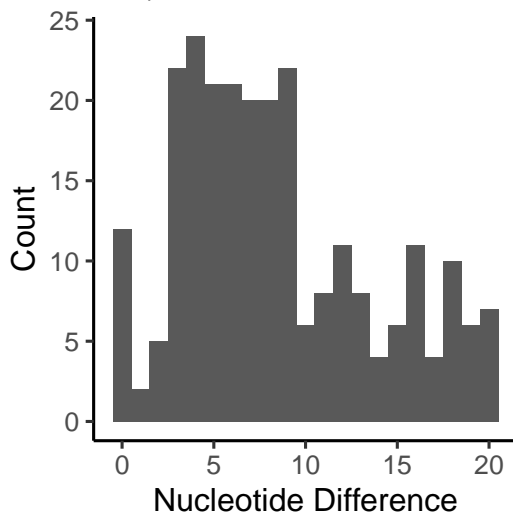
IGHV4-4*02_03

165 sequences assigned
2 (1.2%) exact matches, in which:
2 unique CDR3
2 unique J



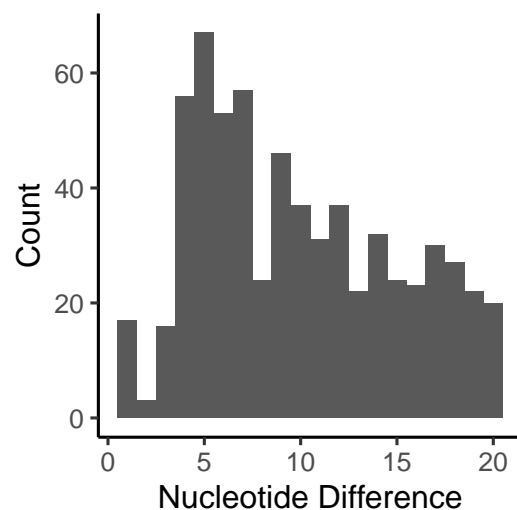
IGHV4-31*02

307 sequences assigned
12 (3.9%) exact matches, in which:
10 unique CDR3
5 unique J



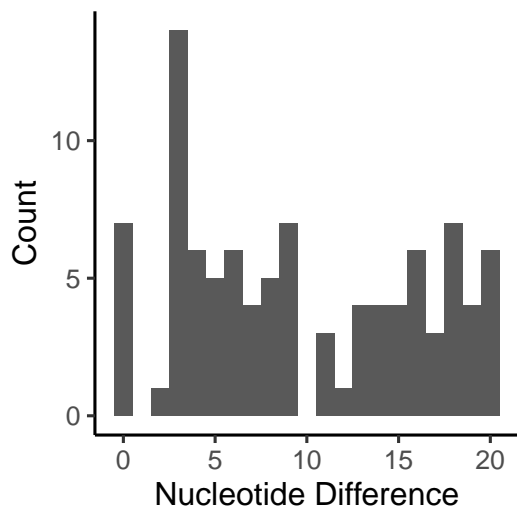
IGHV4-39*02

813 sequences assigned
No exact matches.



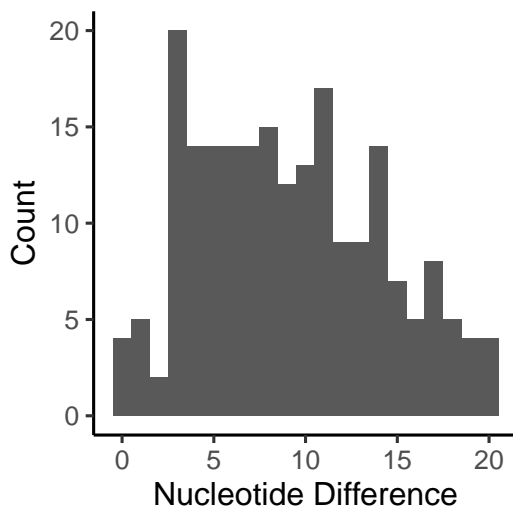
IGHV4-30-4*01

142 sequences assigned
7 (4.9%) exact matches, in which:
6 unique CDR3
4 unique J



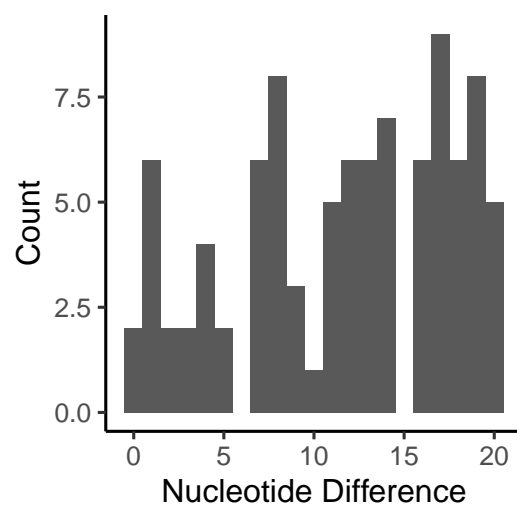
IGHV4-34*01_02

260 sequences assigned
4 (1.5%) exact matches, in which:
3 unique CDR3
3 unique J



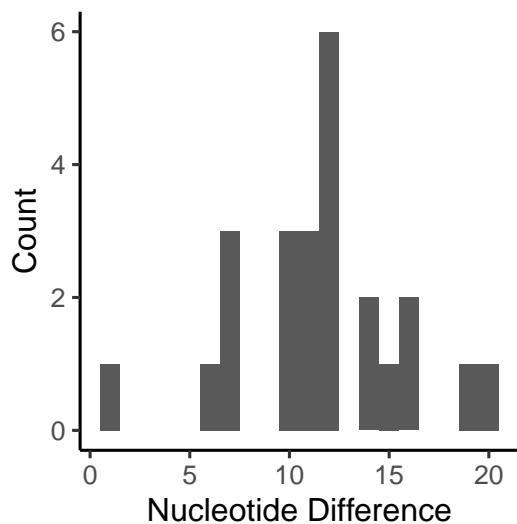
IGHV4-39*01_05

126 sequences assigned
2 (1.6%) exact matches, in which:
2 unique CDR3
2 unique J



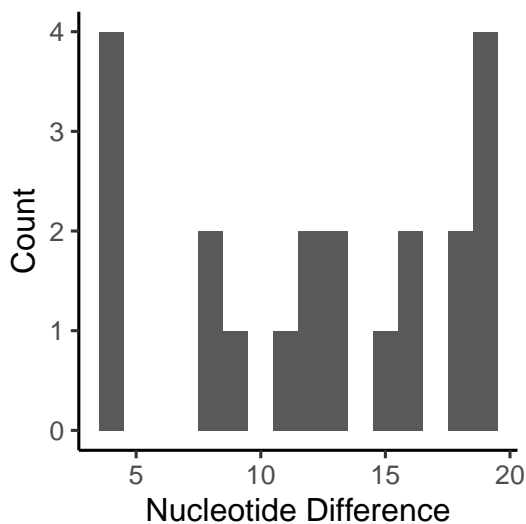
IGHV4-59*02

34 sequences assigned
No exact matches.



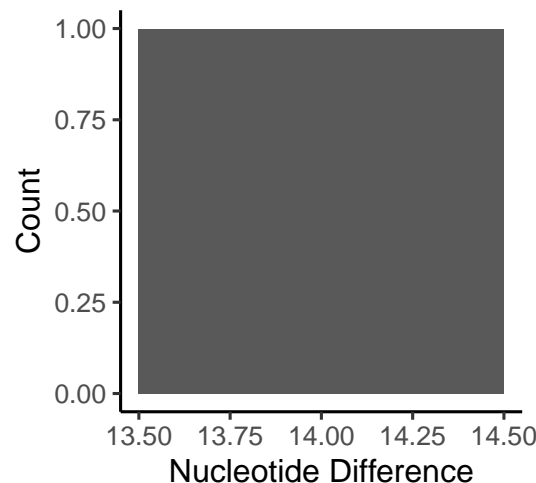
IGHV4-59*13

25 sequences assigned
No exact matches.



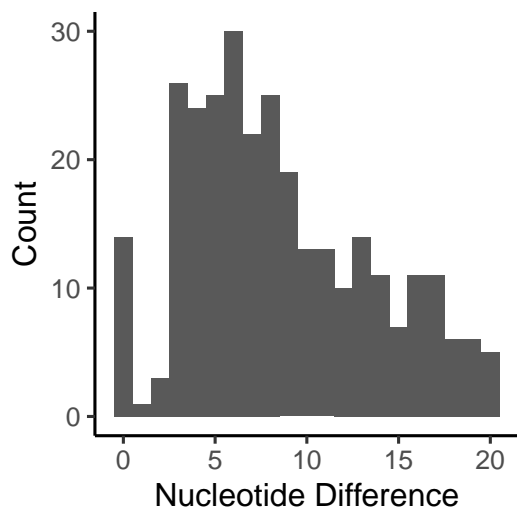
IGHV4/OR15-8*02

3 sequences assigned
No exact matches.



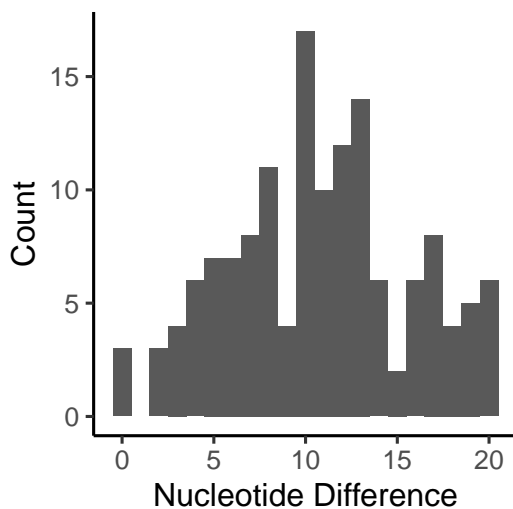
IGHV4-59*01_07

354 sequences assigned
14 (4%) exact matches, in which:
12 unique CDR3
5 unique J



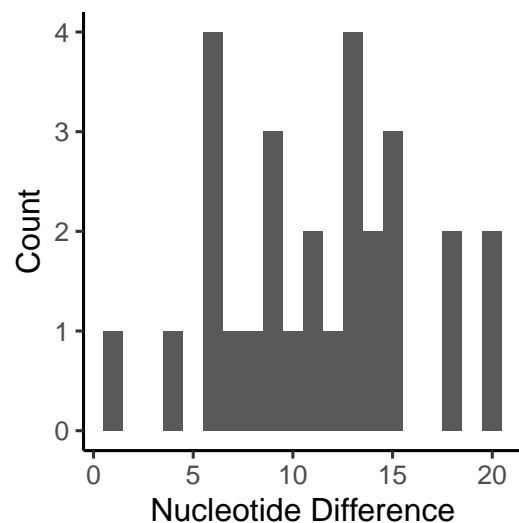
IGHV4-61*01

176 sequences assigned
3 (1.7%) exact matches, in which:
3 unique CDR3
1 unique J



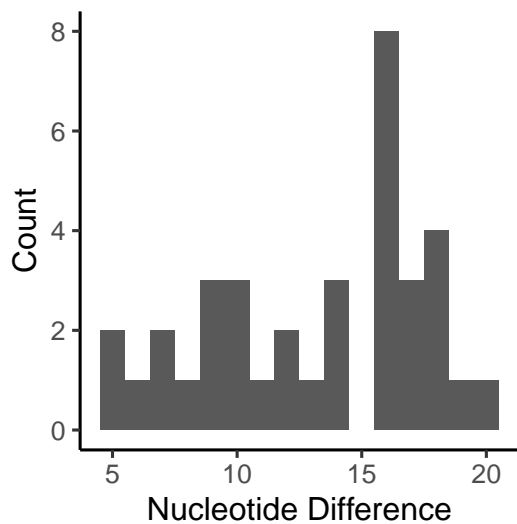
IGHV5-51*07

33 sequences assigned
No exact matches.



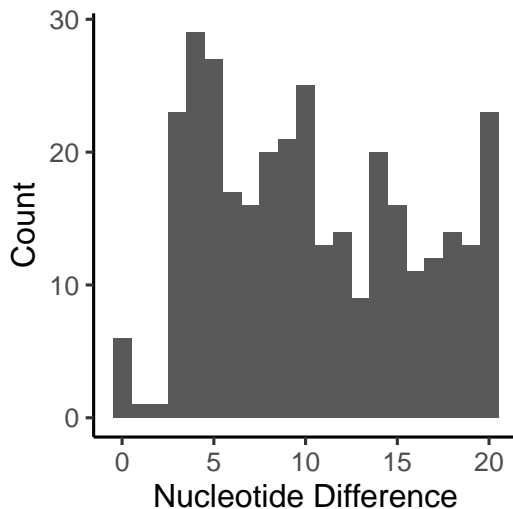
IGHV4-59*11

51 sequences assigned
No exact matches.



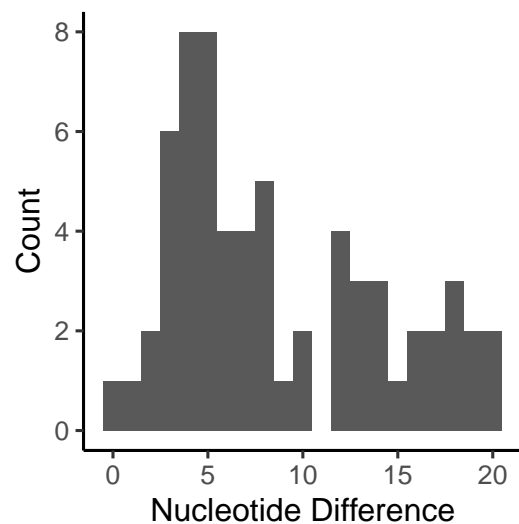
IGHV4-61*02

420 sequences assigned
6 (1.4%) exact matches, in which:
6 unique CDR3
4 unique J



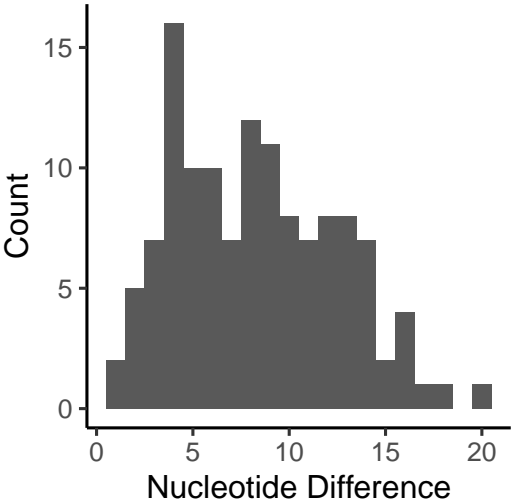
IGHV5-51*01_03

83 sequences assigned
1 (1.2%) exact matches, in which:
1 unique CDR3
1 unique J



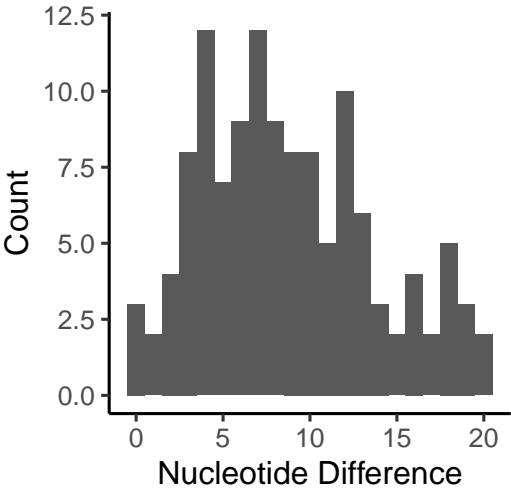
IGHV6-1*01_02

140 sequences assigned
No exact matches.

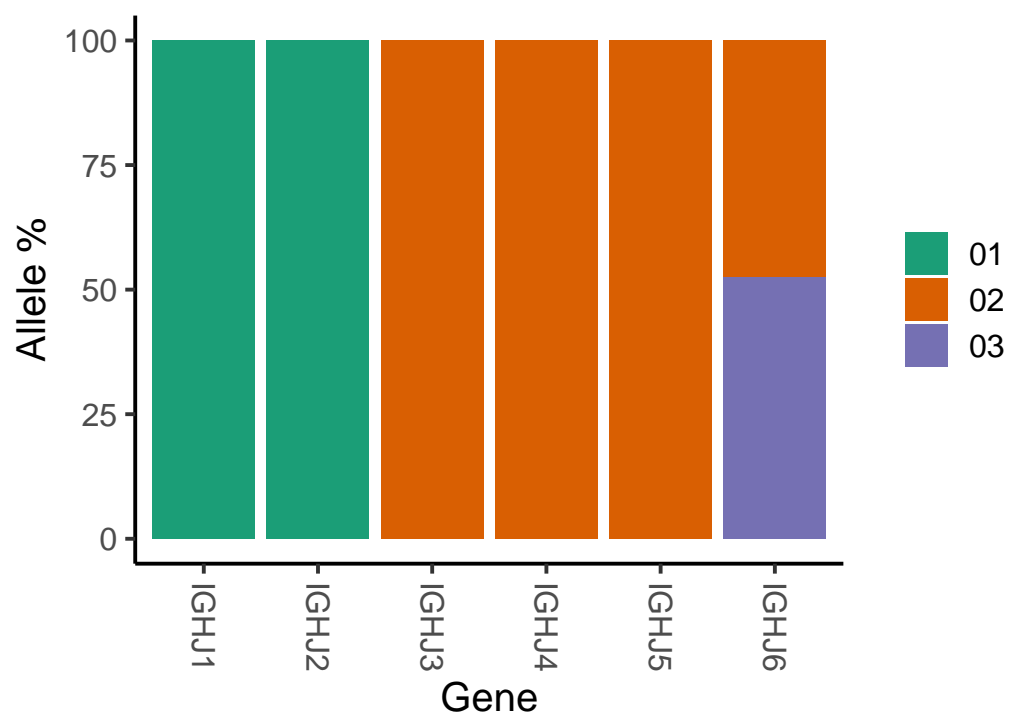


IGHV7-4-1*02

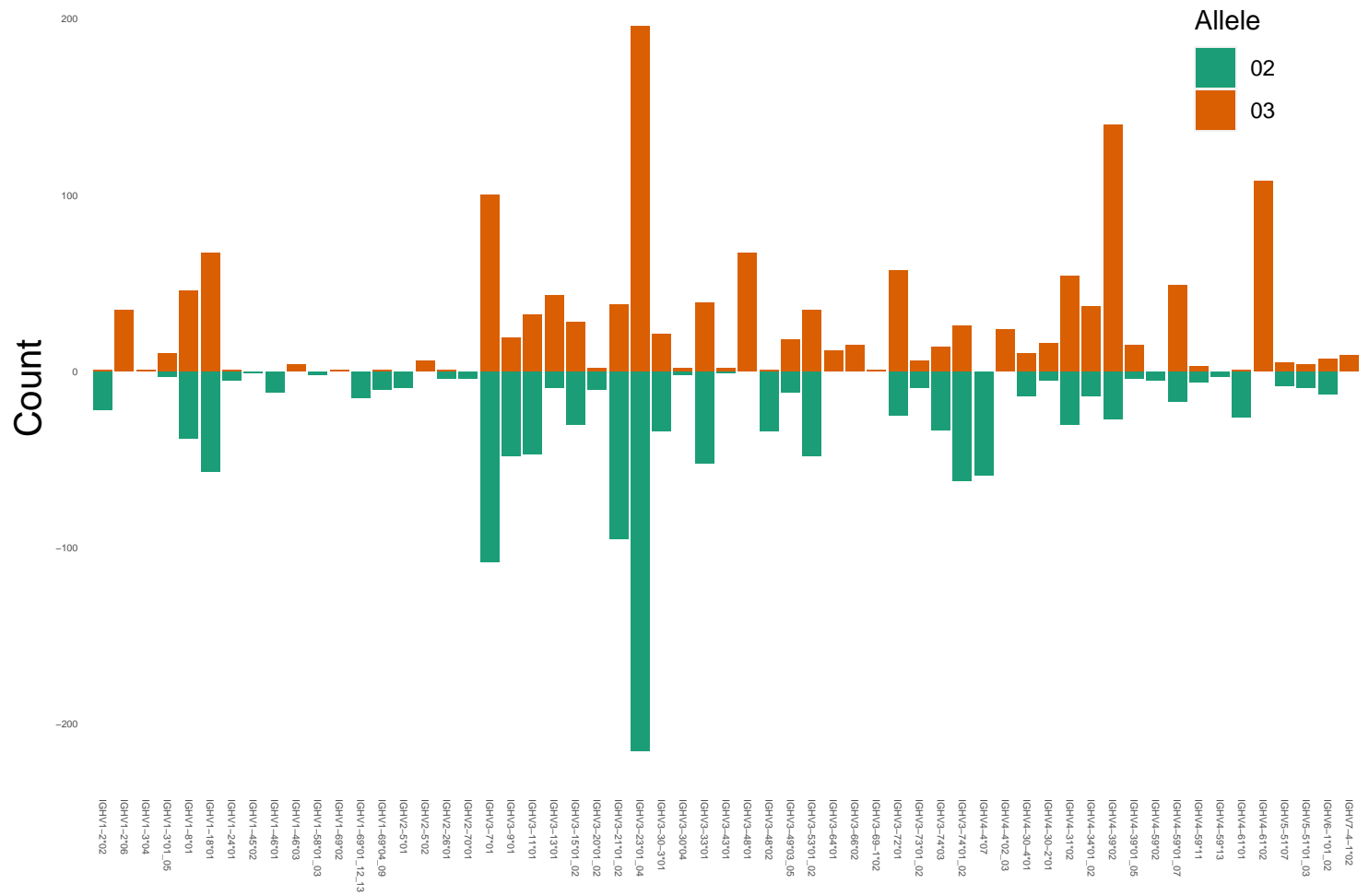
132 sequences assigned
3 (2.3%) exact matches, in which:
3 unique CDR3
1 unique J



Allele Usage



Sequence Count byIGHJ6 allele usage



Warning – no inferred sequences found.