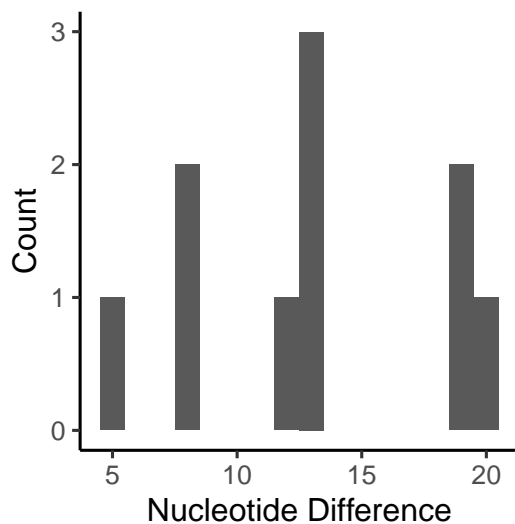


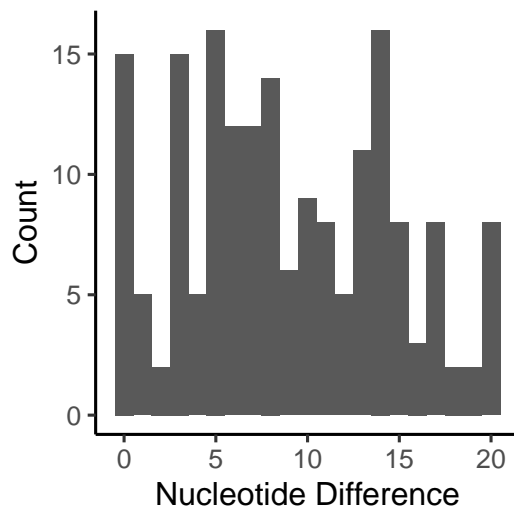
IGHV1-2*02

15 sequences assigned
No exact matches.



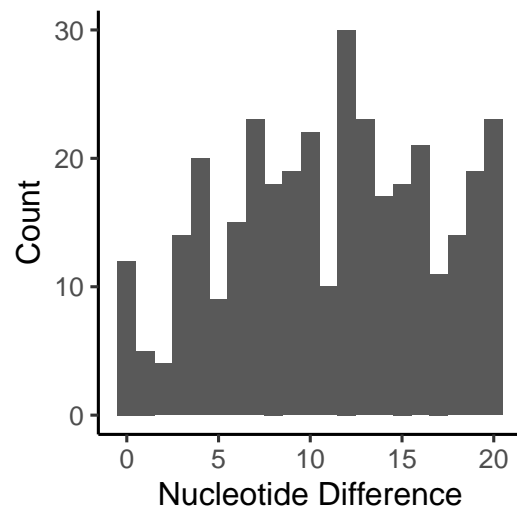
IGHV1-3*01_05

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



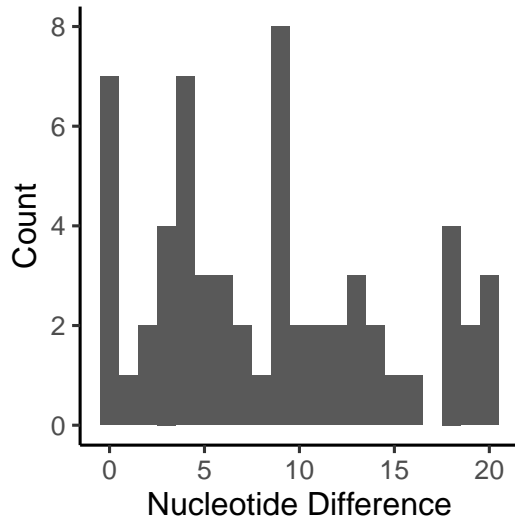
IGHV1-18*04

484 sequences assigned
12 (2.5%) exact matches, in which:
10 unique CDR3
4 unique J



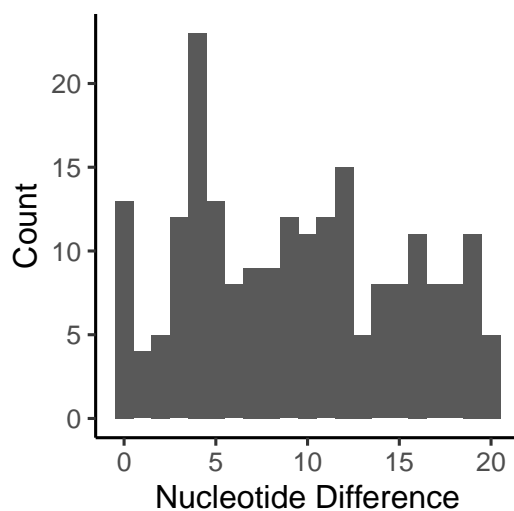
IGHV1-2*04

66 sequences assigned
7 (10.6%) exact matches, in which:
6 unique CDR3
3 unique J



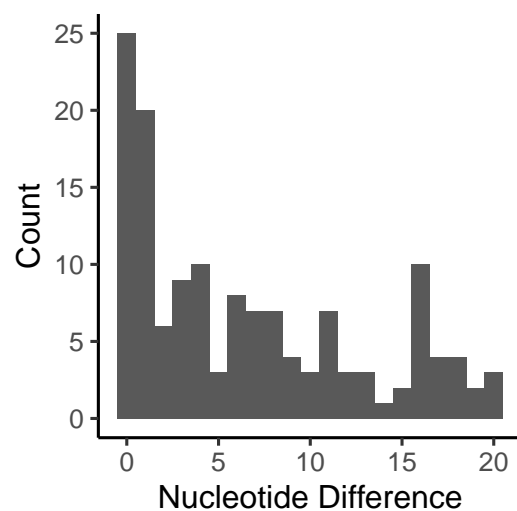
IGHV1-8*01

278 sequences assigned
13 (4.7%) exact matches, in which:
11 unique CDR3
3 unique J



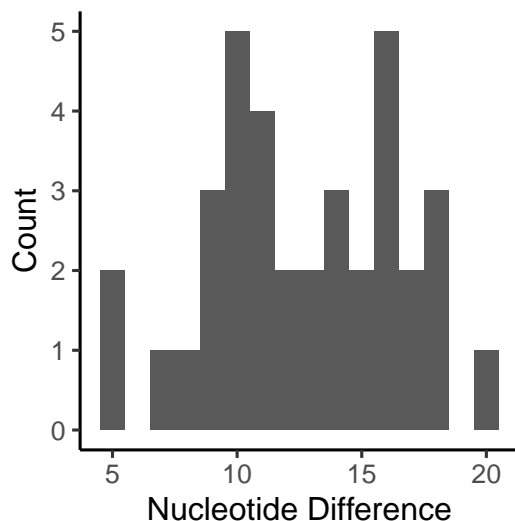
IGHV1-24*01

188 sequences assigned
25 (13.3%) exact matches, in which:
19 unique CDR3
5 unique J



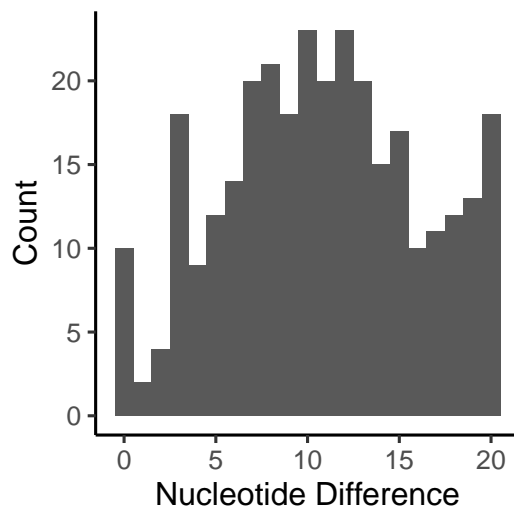
IGHV1-3*04

53 sequences assigned
No exact matches.



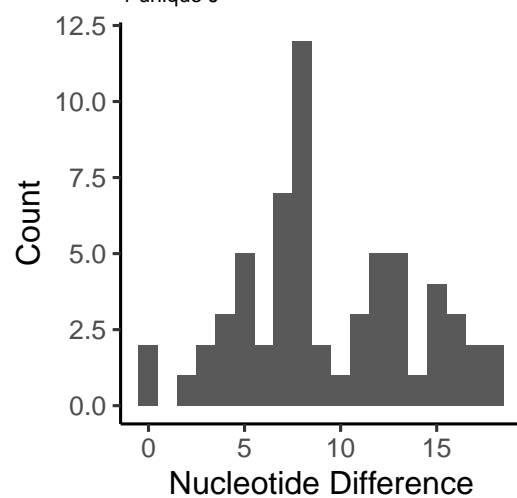
IGHV1-18*01

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



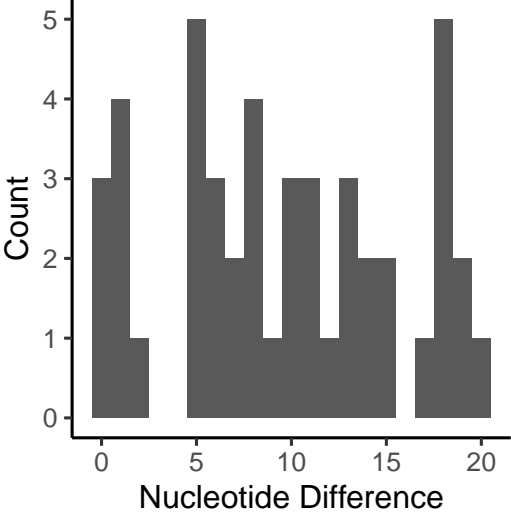
IGHV1-46*01

90 sequences assigned
2 (2.2%) exact matches, in which:
1 unique CDR3
1 unique J



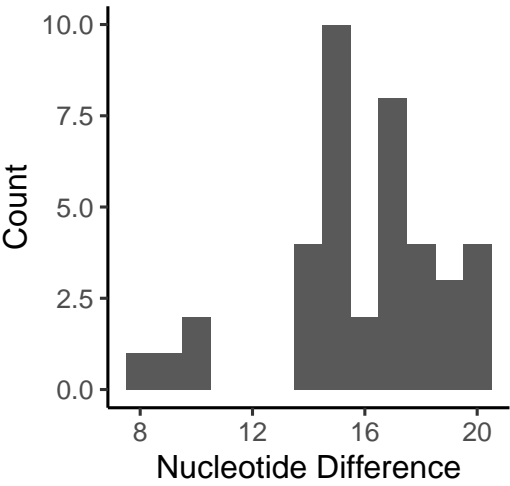
IGHV1-46*03

66 sequences assigned
3 (4.5%) exact matches, in which:
2 unique CDR3
1 unique J



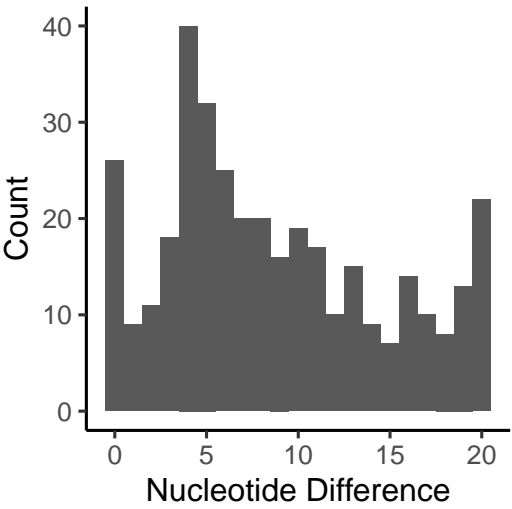
IGHV1-69*08

58 sequences assigned
No exact matches.



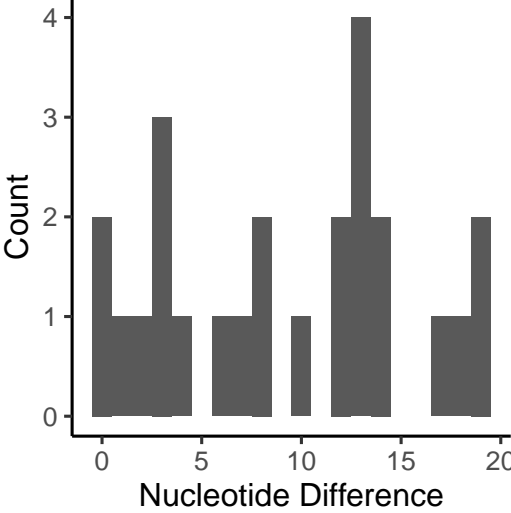
IGHV2-5*02

442 sequences assigned
26 (5.9%) exact matches, in which:
22 unique CDR3
4 unique J



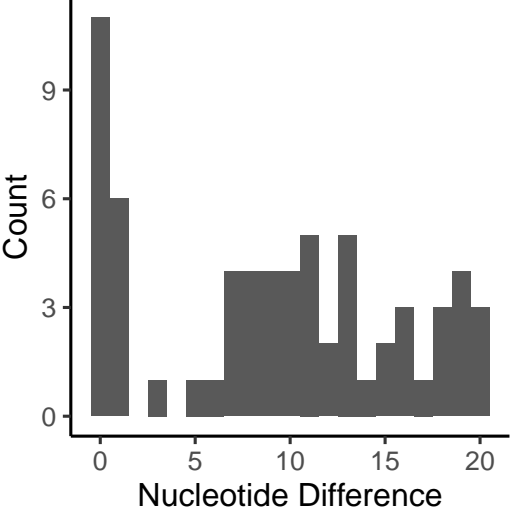
IGHV1-58*02

31 sequences assigned
2 (6.5%) exact matches, in which:
2 unique CDR3
1 unique J



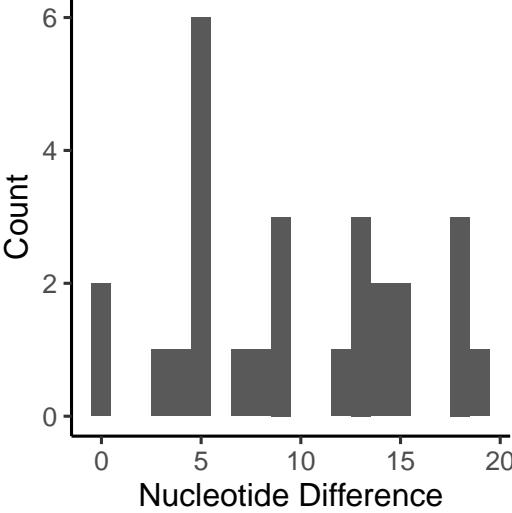
IGHV1-69*04_09

97 sequences assigned
11 (11.3%) exact matches, in which:
8 unique CDR3
2 unique J



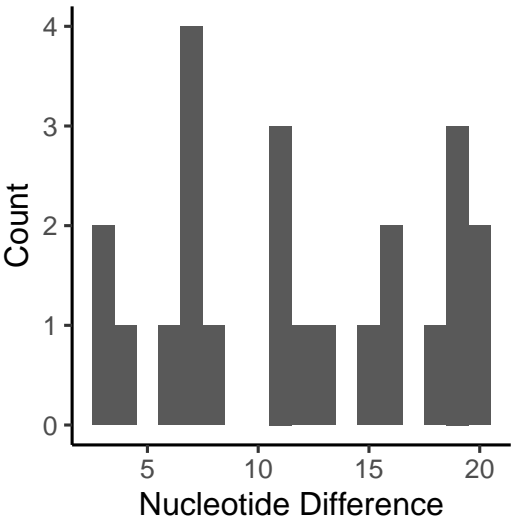
IGHV2-26*01

33 sequences assigned
2 (6.1%) exact matches, in which:
2 unique CDR3
2 unique J



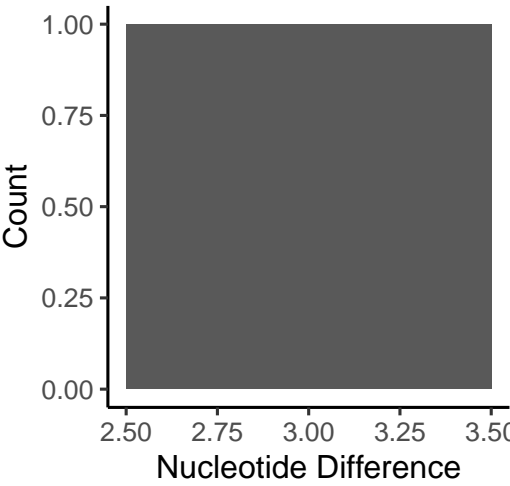
IGHV1-69*02

38 sequences assigned
No exact matches.



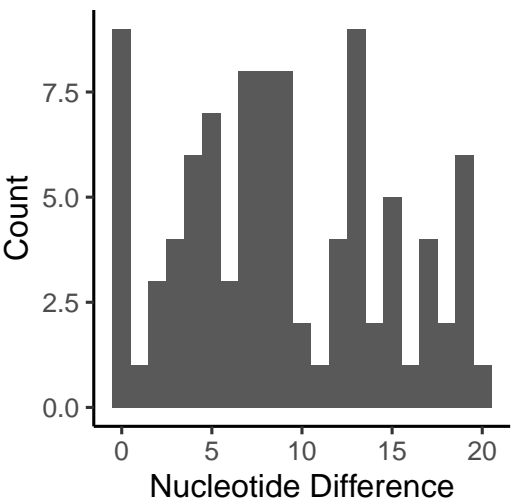
IGHV1-69D*01

1 sequences assigned
No exact matches.



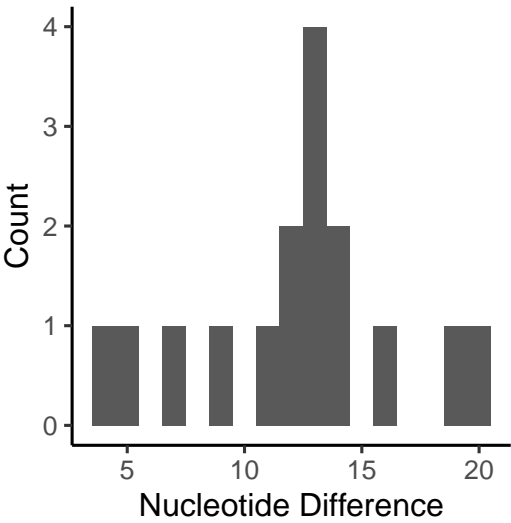
IGHV2-70*11_15

104 sequences assigned
9 (8.7%) exact matches, in which:
7 unique CDR3
3 unique J



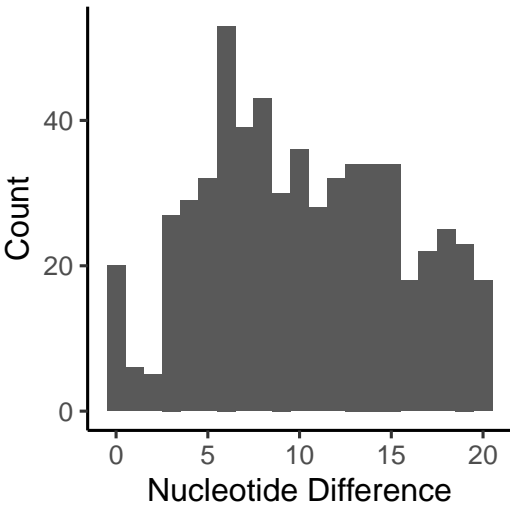
IGHV2-70*16_17

17 sequences assigned
No exact matches.



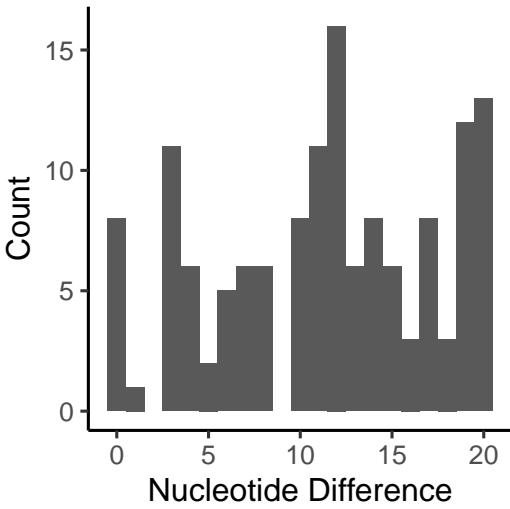
IGHV3-7*03

795 sequences assigned
20 (2.5%) exact matches, in which:
14 unique CDR3
4 unique J



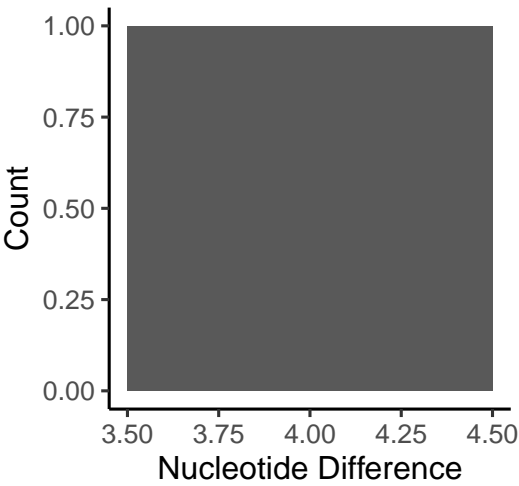
IGHV3-11*06

196 sequences assigned
8 (4.1%) exact matches, in which:
3 unique CDR3
2 unique J



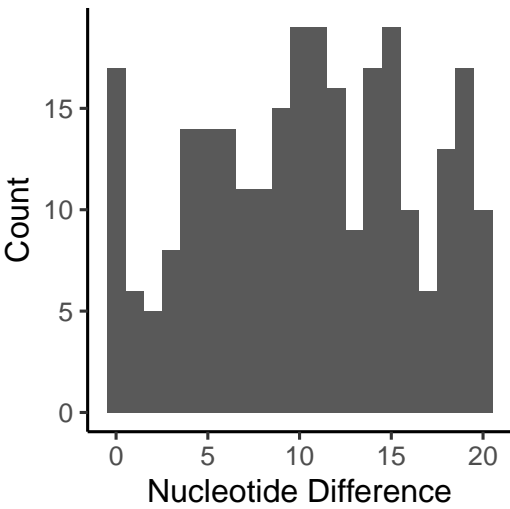
IGHV2-70D*04

1 sequences assigned
No exact matches.



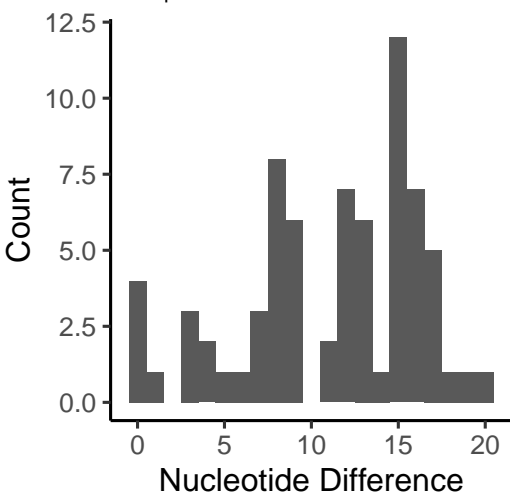
IGHV3-9*01

376 sequences assigned
17 (4.5%) exact matches, in which:
12 unique CDR3
3 unique J



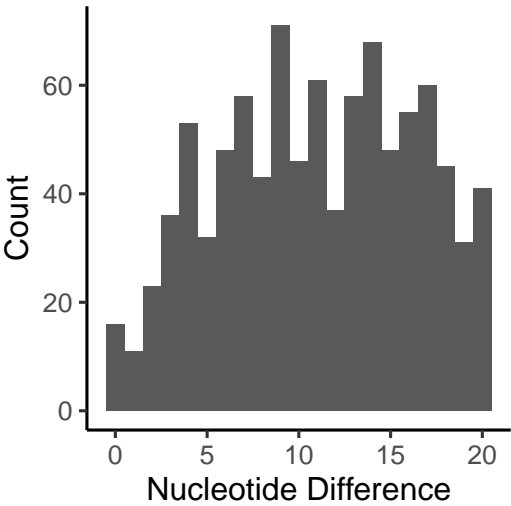
IGHV3-13*01

83 sequences assigned
4 (4.8%) exact matches, in which:
2 unique CDR3
2 unique J



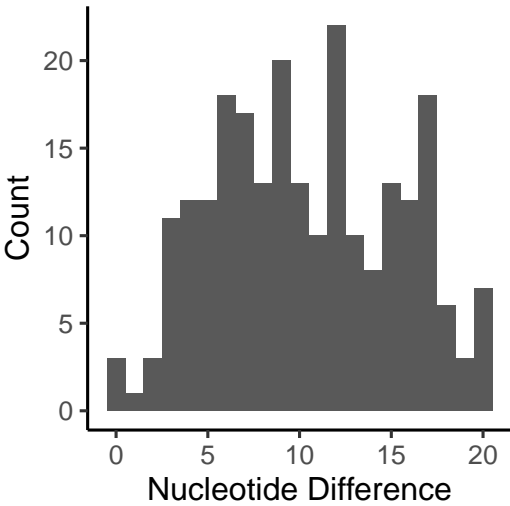
IGHV3-7*01

1258 sequences assigned
16 (1.3%) exact matches, in which:
12 unique CDR3
4 unique J



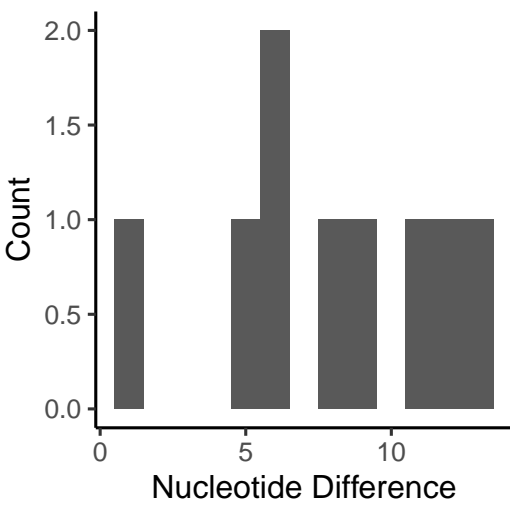
IGHV3-11*01

321 sequences assigned
3 (0.9%) exact matches, in which:
2 unique CDR3
1 unique J



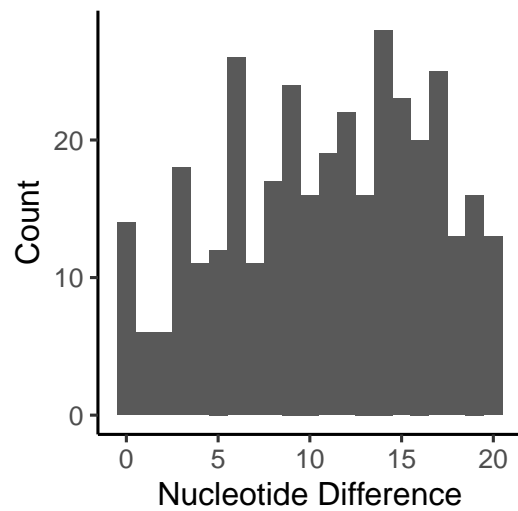
IGHV3-13*05

14 sequences assigned
No exact matches.



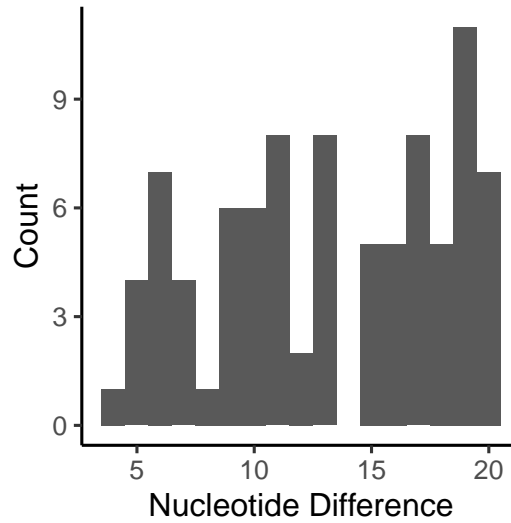
IGHV3-15*01_02

485 sequences assigned
14 (2.9%) exact matches, in which:
9 unique CDR3
4 unique J



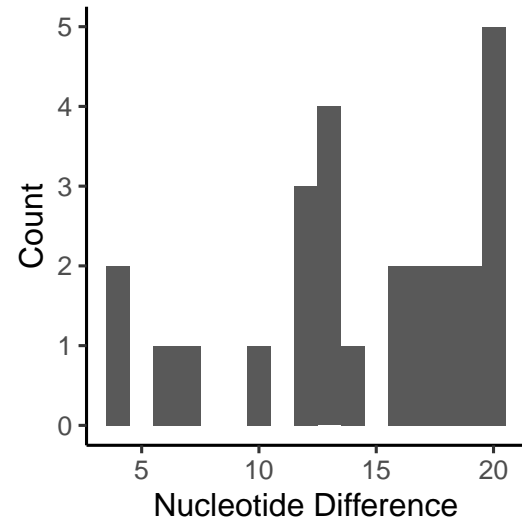
IGHV3-21*06

184 sequences assigned
No exact matches.



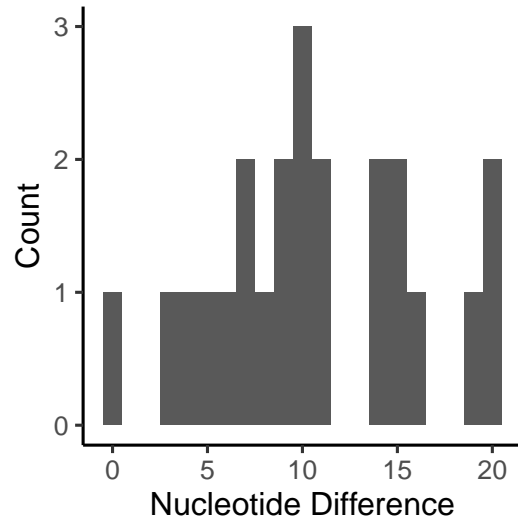
IGHV3-30*04

81 sequences assigned
No exact matches.



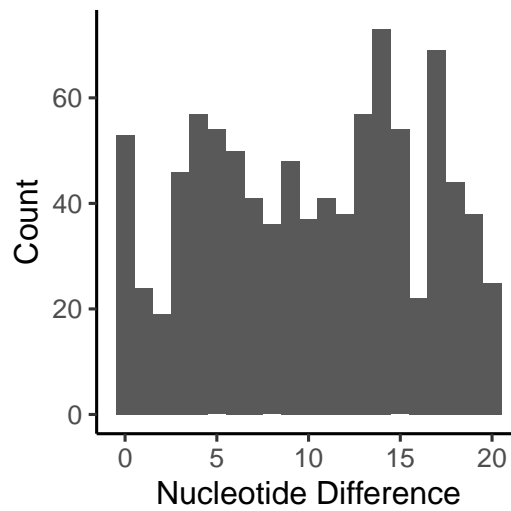
IGHV3-20*01_02

30 sequences assigned
1 (3.3%) exact matches, in which:
1 unique CDR3
1 unique J



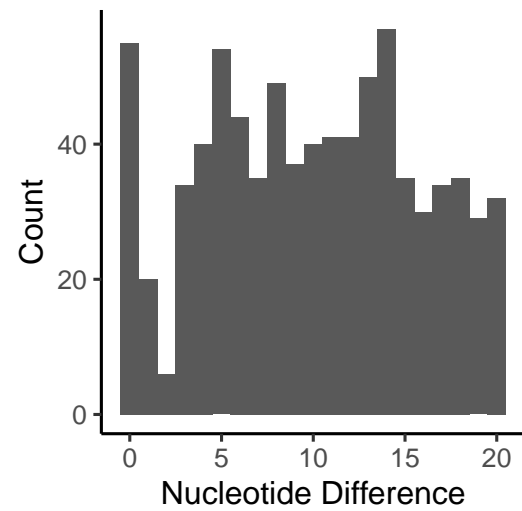
IGHV3-21*01_02

1132 sequences assigned
53 (4.7%) exact matches, in which:
34 unique CDR3
7 unique J



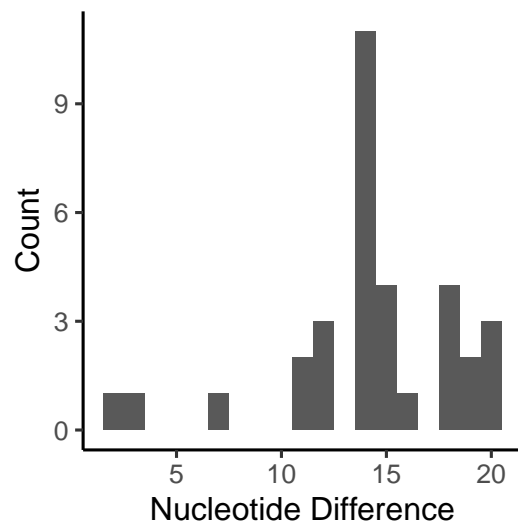
IGHV3-33*01

1003 sequences assigned
55 (5.5%) exact matches, in which:
31 unique CDR3
6 unique J



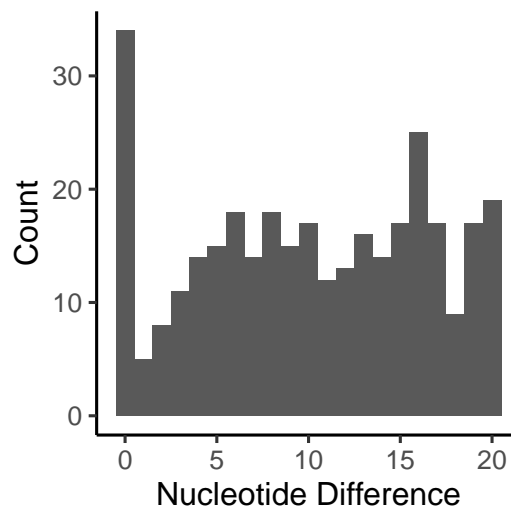
IGHV3-20*03_04

57 sequences assigned
No exact matches.



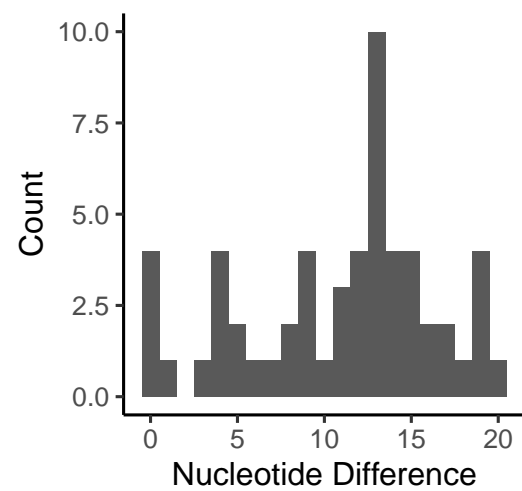
IGHV3-30-3*01

484 sequences assigned
34 (7%) exact matches, in which:
21 unique CDR3
4 unique J



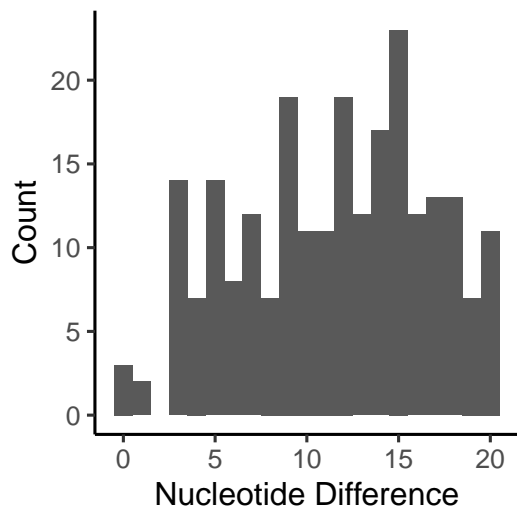
IGHV3-43*01

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



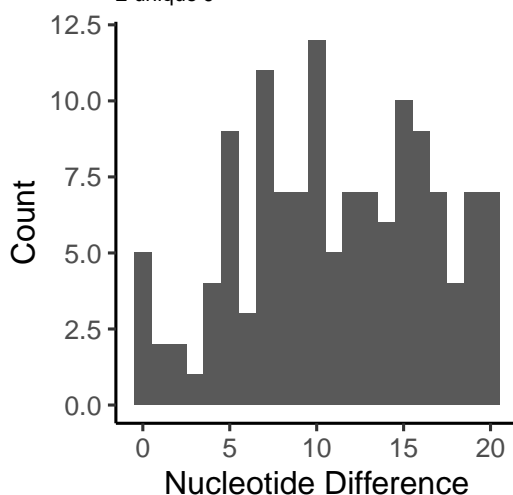
IGHV3-43*02

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



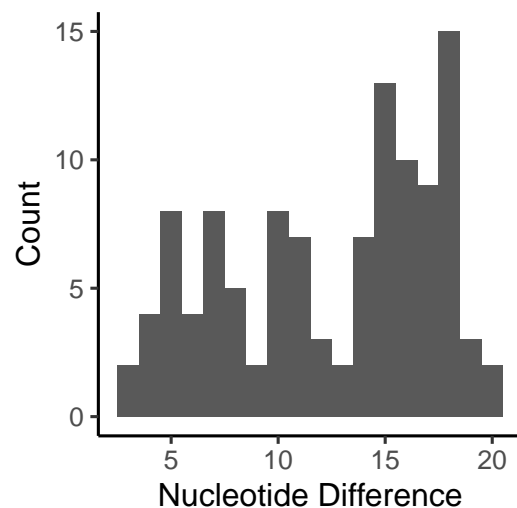
IGHV3-49*04

226 sequences assigned
5 (2.2%) exact matches, in which:
3 unique CDR3
2 unique J



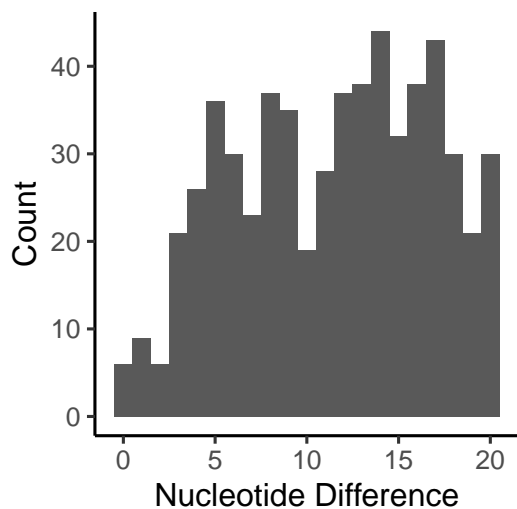
IGHV3-53*01_02

179 sequences assigned
No exact matches.



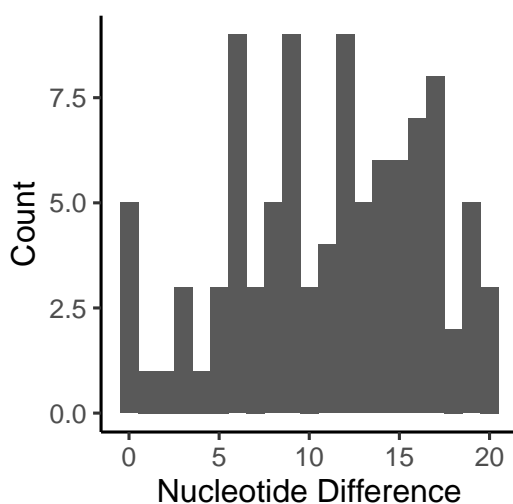
IGHV3-48*01

761 sequences assigned
6 (0.8%) exact matches, in which:
4 unique CDR3
3 unique J



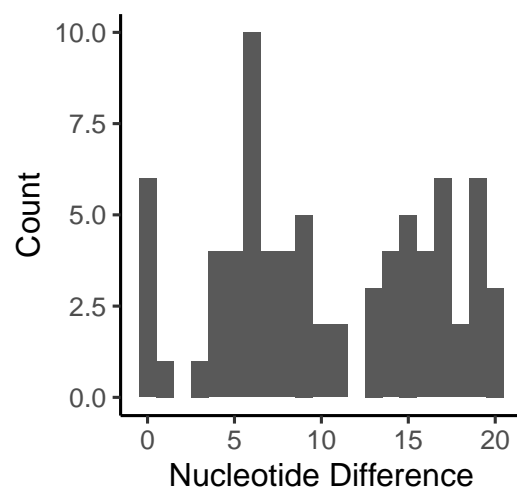
IGHV3-49*03_05

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



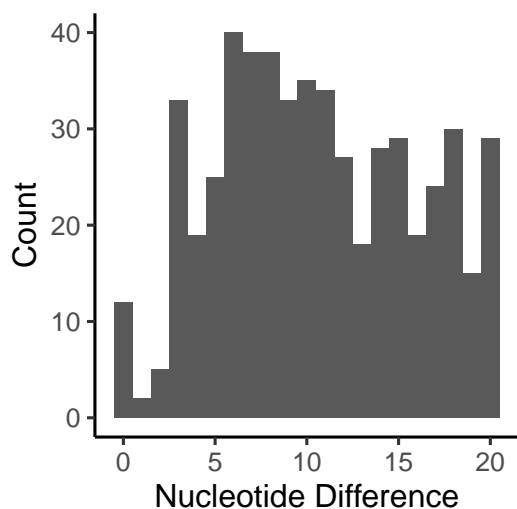
IGHV3-64*01

106 sequences assigned
6 (5.7%) exact matches, in which:
3 unique CDR3
3 unique J



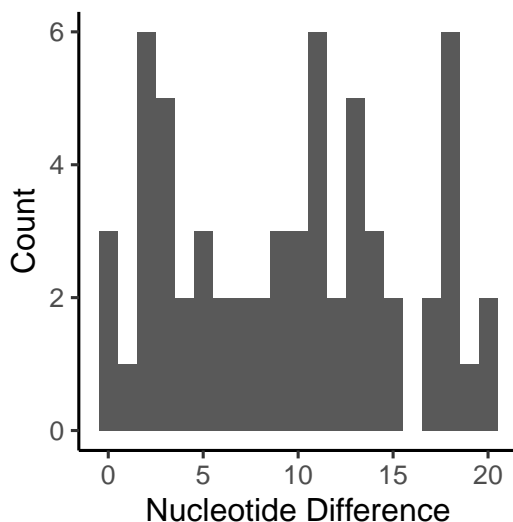
IGHV3-48*03

694 sequences assigned
12 (1.7%) exact matches, in which:
8 unique CDR3
3 unique J



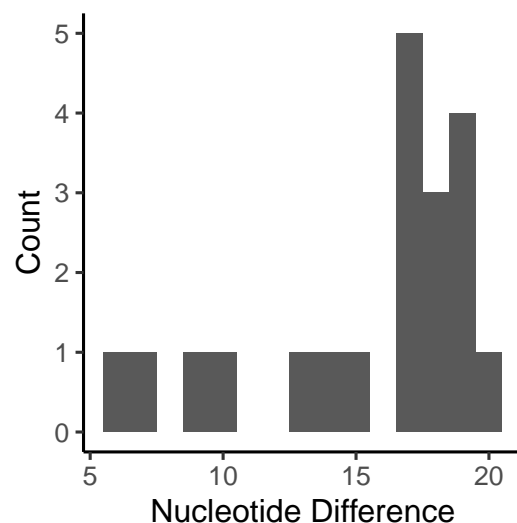
IGHV3-53*04

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



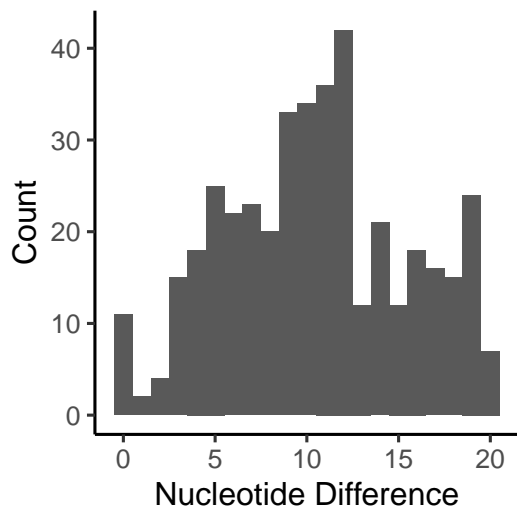
IGHV3-64*02_07

34 sequences assigned
No exact matches.



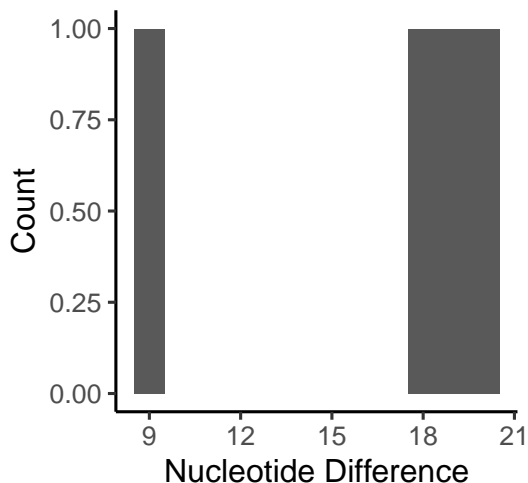
IGHV3-66*01

485 sequences assigned
11 (2.3%) exact matches, in which:
4 unique CDR3
2 unique J



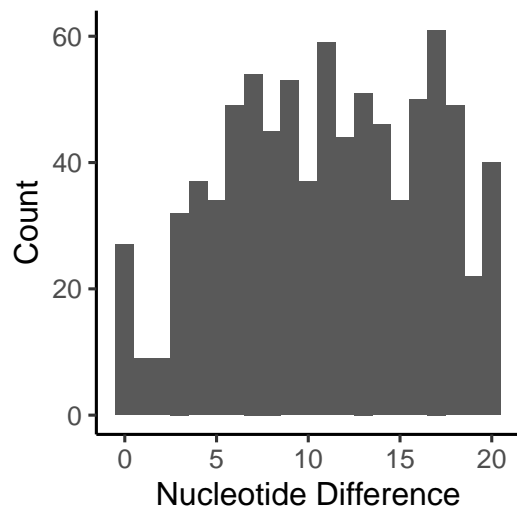
IGHV3-69-1*02

5 sequences assigned
No exact matches.



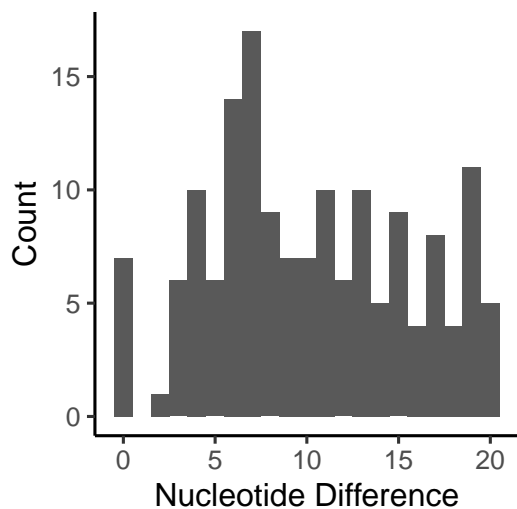
IGHV3-74*01_02

1185 sequences assigned
27 (2.3%) exact matches, in which:
14 unique CDR3
5 unique J



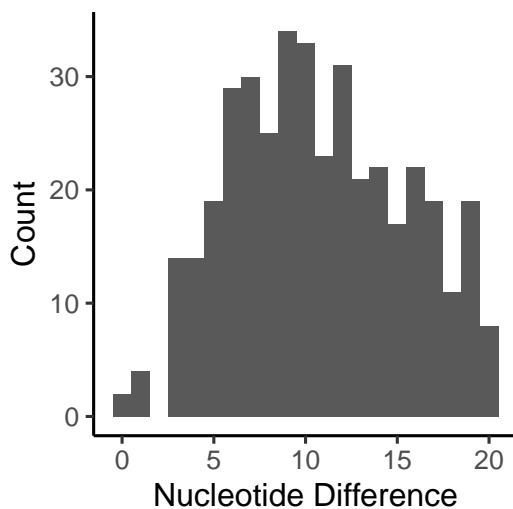
IGHV3-66*02

251 sequences assigned
7 (2.8%) exact matches, in which:
6 unique CDR3
3 unique J



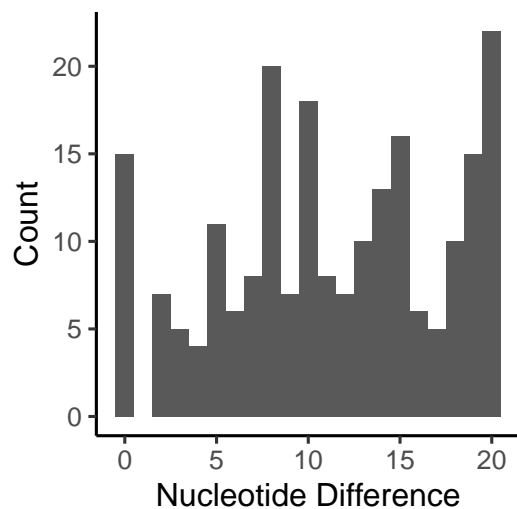
IGHV3-72*01

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



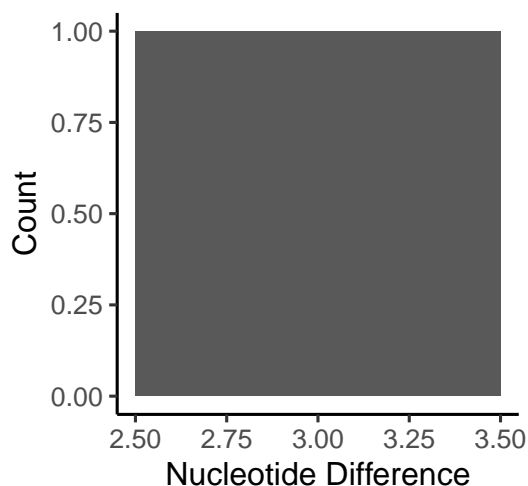
IGHV3-64D*09

349 sequences assigned
15 (4.3%) exact matches, in which:
7 unique CDR3
4 unique J



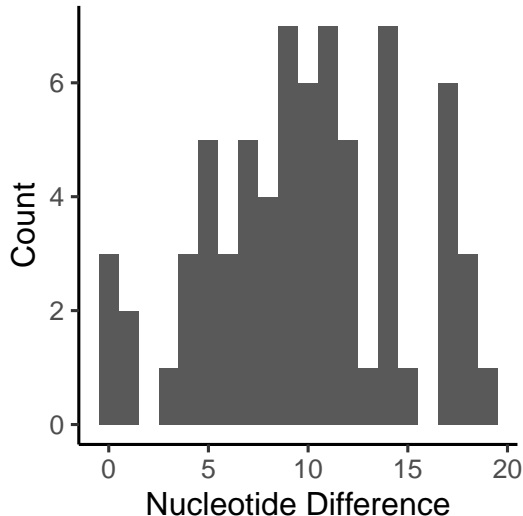
IGHV3-69-1*01

5 sequences assigned
No exact matches.



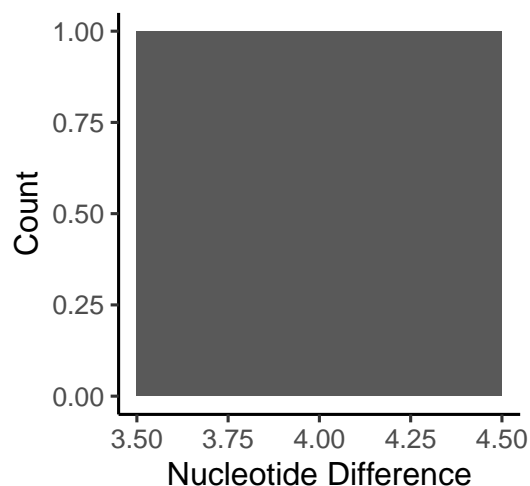
IGHV3-73*01_02

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



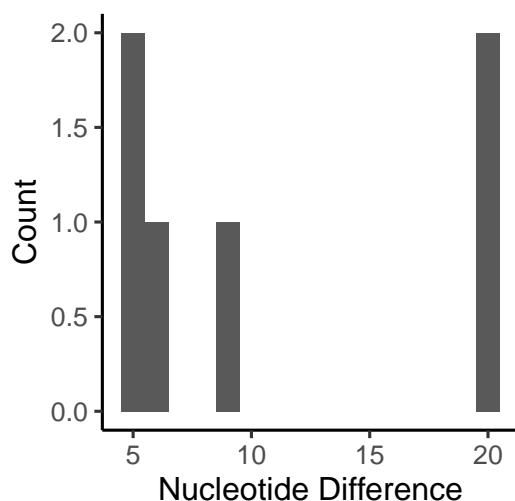
IGHV3-NL1*01

1 sequences assigned
No exact matches.



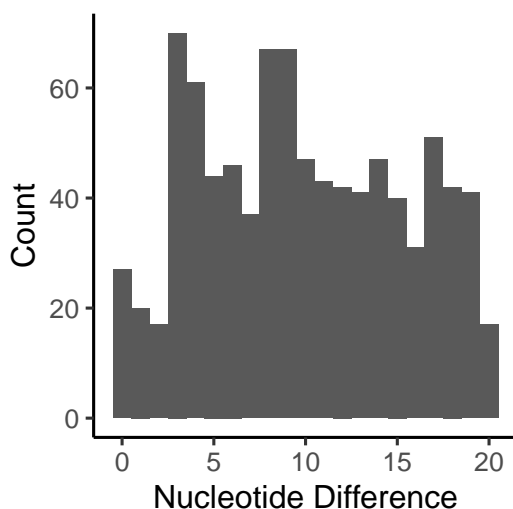
IGHV4-28*01_07

6 sequences assigned
No exact matches.



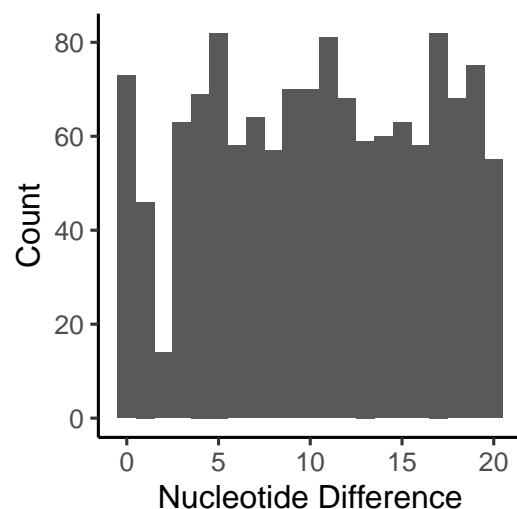
IGHV4-34*01_02

1225 sequences assigned
27 (2.2%) exact matches, in which:
15 unique CDR3
6 unique J



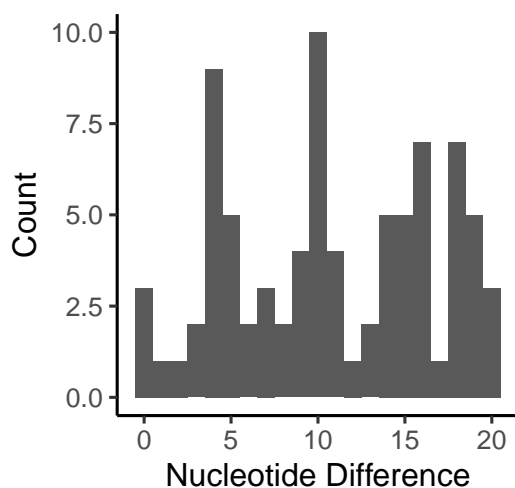
IGHV4-59*01_07

1863 sequences assigned
73 (3.9%) exact matches, in which:
40 unique CDR3
5 unique J



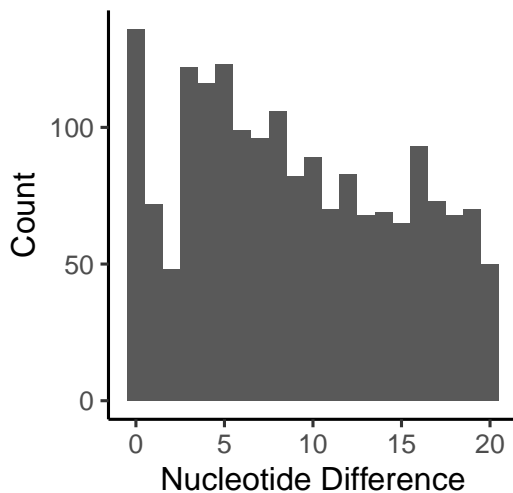
IGHV4-30-2*01

119 sequences assigned
3 (2.5%) exact matches, in which:
2 unique CDR3
1 unique J



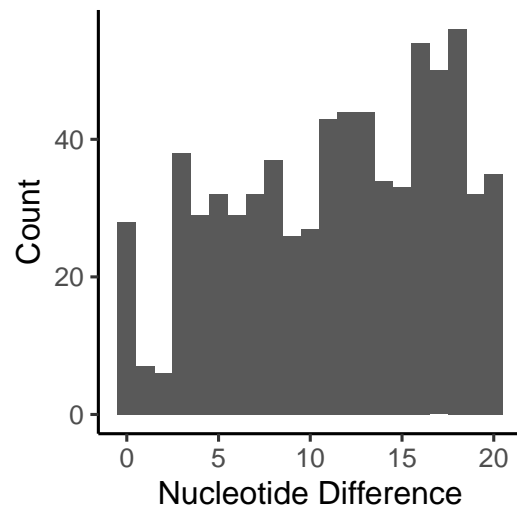
IGHV4-39*01_05

2346 sequences assigned
136 (5.8%) exact matches, in which:
81 unique CDR3
7 unique J



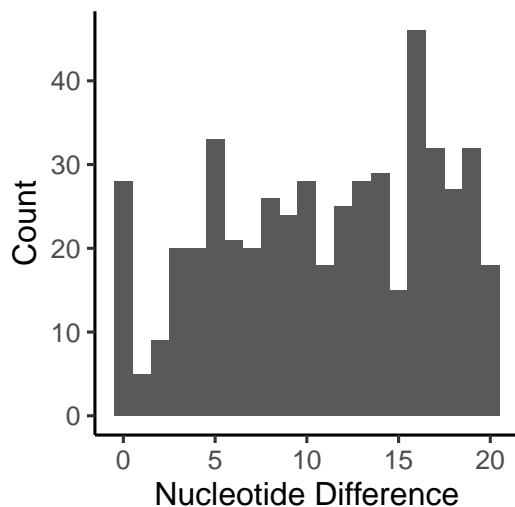
IGHV4-61*02

1070 sequences assigned
28 (2.6%) exact matches, in which:
20 unique CDR3
5 unique J



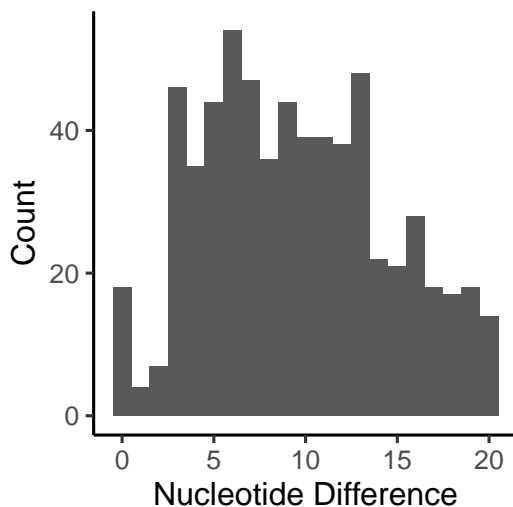
IGHV4-31*03_04

791 sequences assigned
28 (3.5%) exact matches, in which:
18 unique CDR3
4 unique J



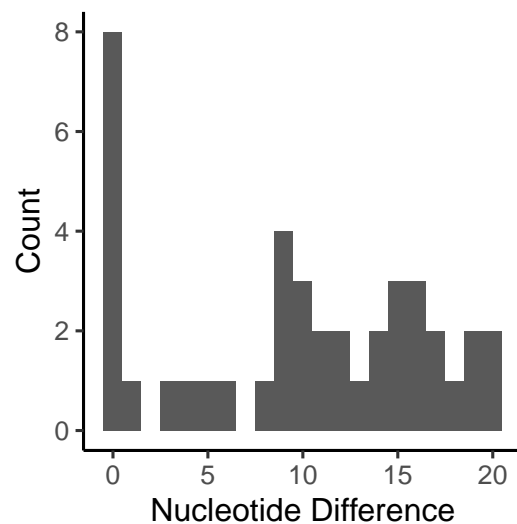
IGHV4-59*08

837 sequences assigned
18 (2.2%) exact matches, in which:
14 unique CDR3
5 unique J



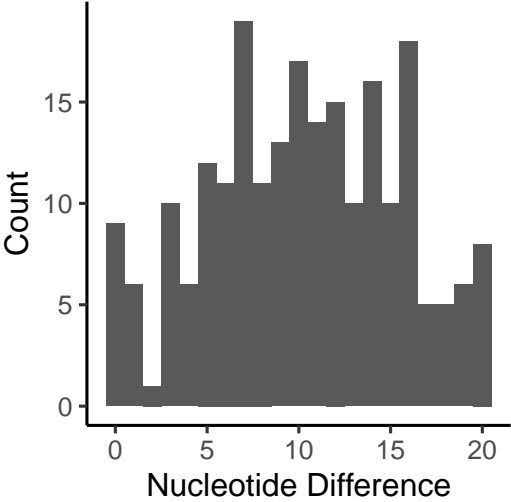
IGHV5-10-1*01_03

57 sequences assigned
8 (14%) exact matches, in which:
7 unique CDR3
4 unique J



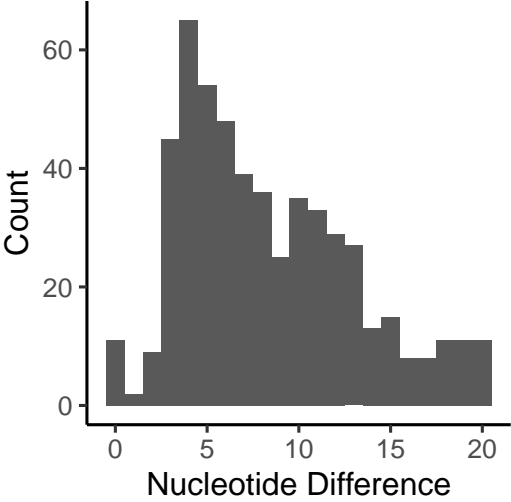
IGHV5-51*01_03

270 sequences assigned
9 (3.3%) exact matches, in which:
9 unique CDR3
5 unique J



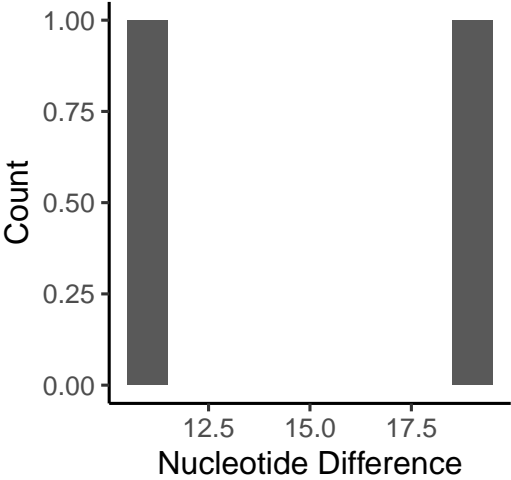
IGHV6-1*01_02

570 sequences assigned
11 (1.9%) exact matches, in which:
11 unique CDR3
4 unique J

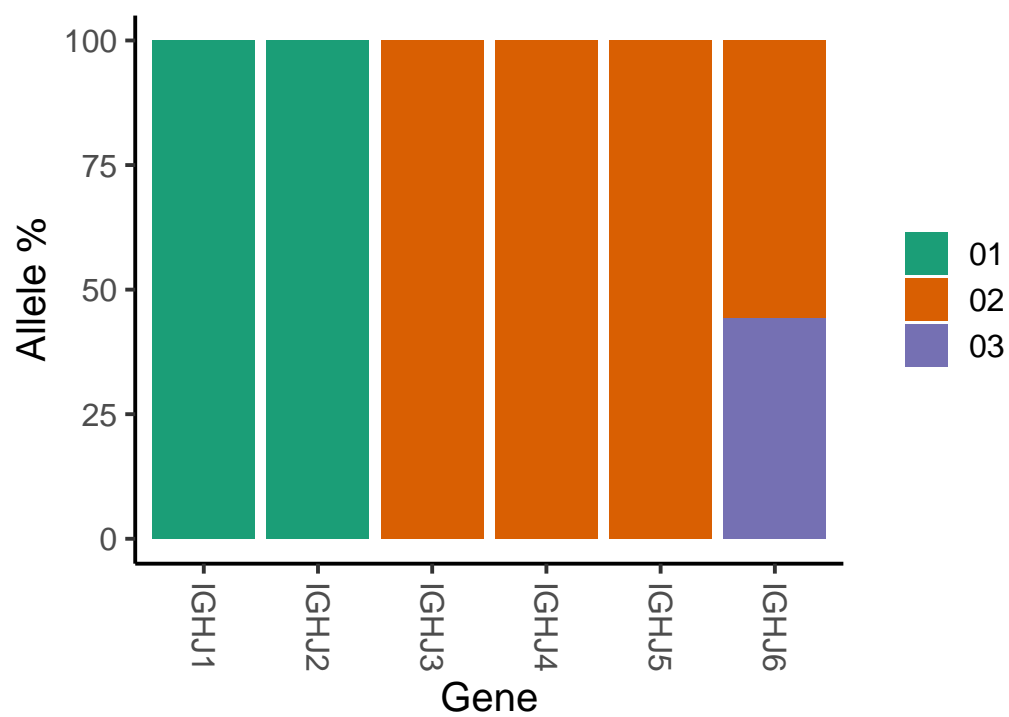


IGHV7-4-1*01

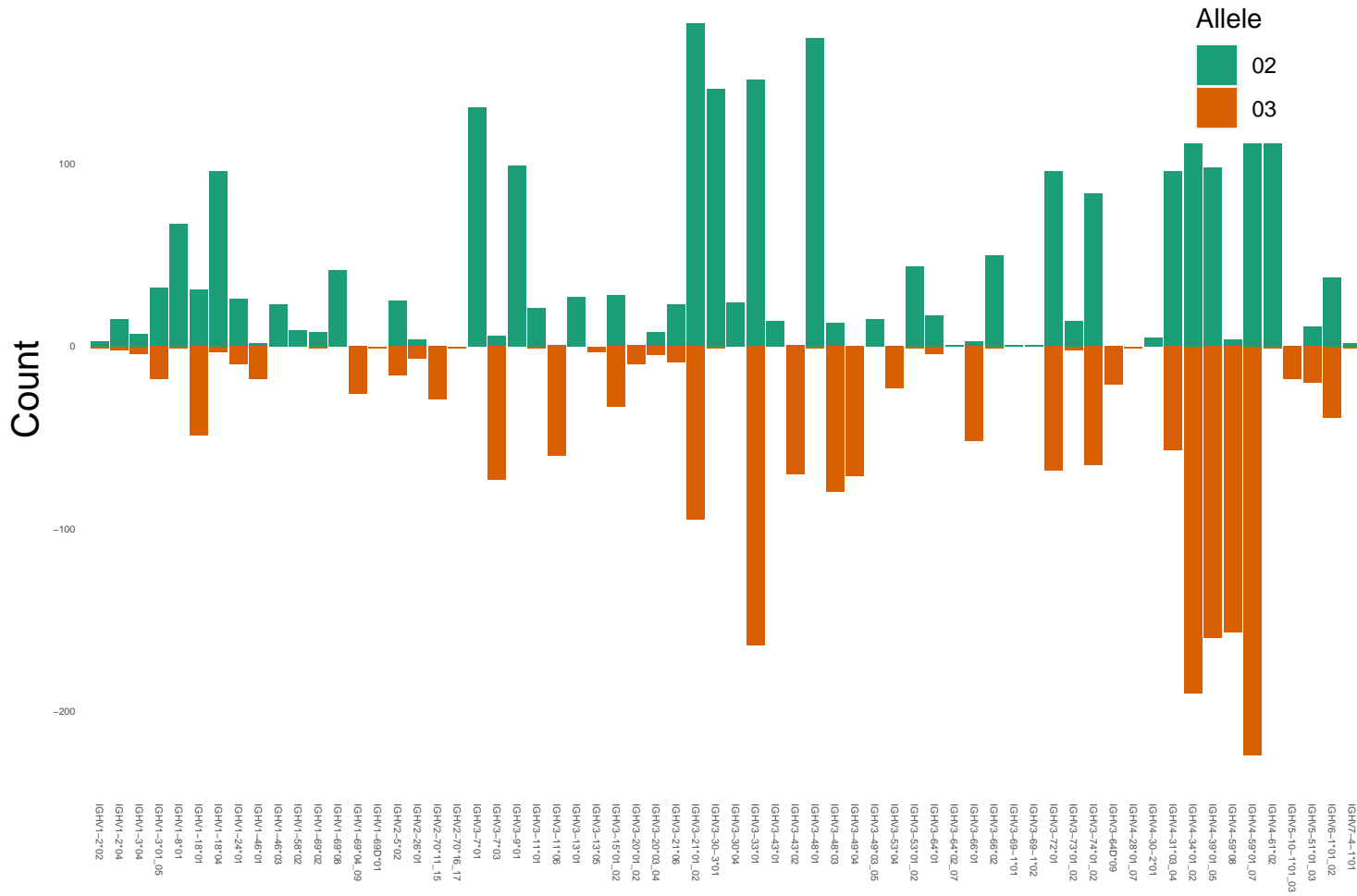
3 sequences assigned
No exact matches.



Allele Usage



Sequence Count by IGHJ6 allele usage



Novel sequence(s)IGHV4-59*02_G88AIGHV5-51*07_A128G are not listed in the genotype and will be ignored.

Novel sequence(s)IGHV4-59*02_G88AIGHV5-51*07_A128G are not listed in the genotype and will be ignored.

Novel sequence(s)IGHV5-51*07_A128G are not listed in the genotype and will be ignored.

Warning – no inferred sequences found.

Warning – no inferred sequences found.

Novel sequence(s)IGHV4-39*02_C258GIGHV5-51*07_A128G are not listed in the genotype and will be ignored.

Warning – no inferred sequences found.

Novel sequence(s)IGHV5-51*07_A128G are not listed in the genotype and will be ignored.

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Novel sequence(s)IGHV4-59*02_G88AIGHV5-51*07_A128G are not listed in the genotype and will be ignored.

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