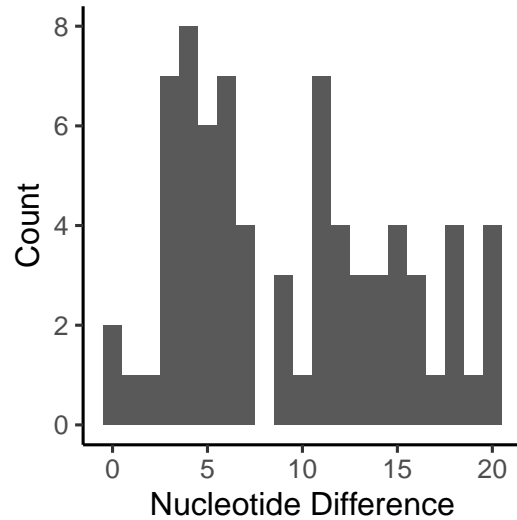


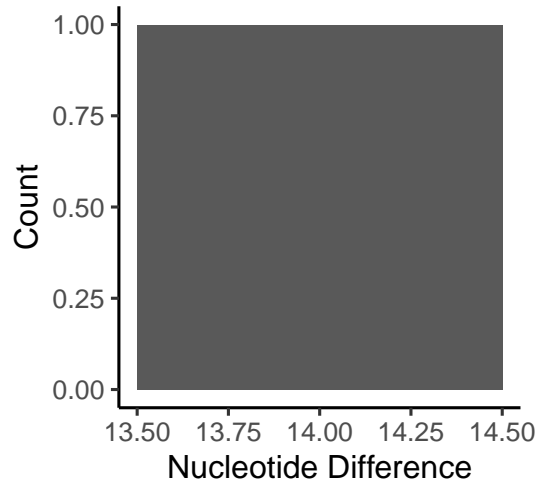
IGHV1-2*04

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



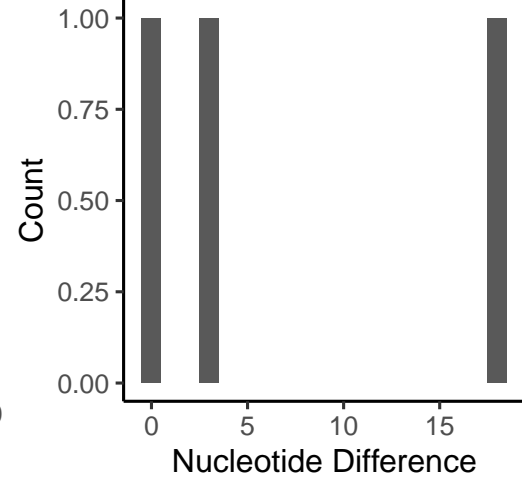
IGHV1-8*01

1 sequences assigned
No exact matches.



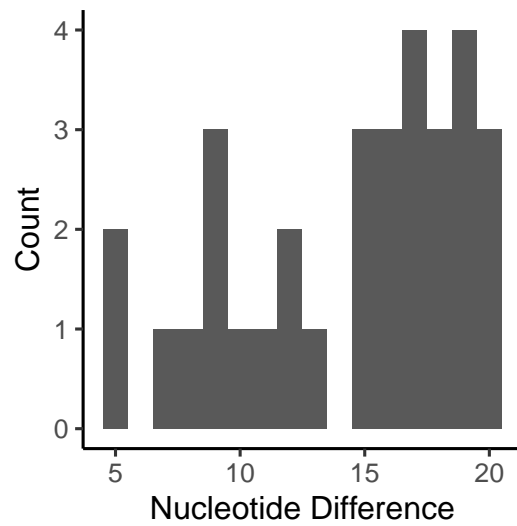
IGHV1-45*02

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



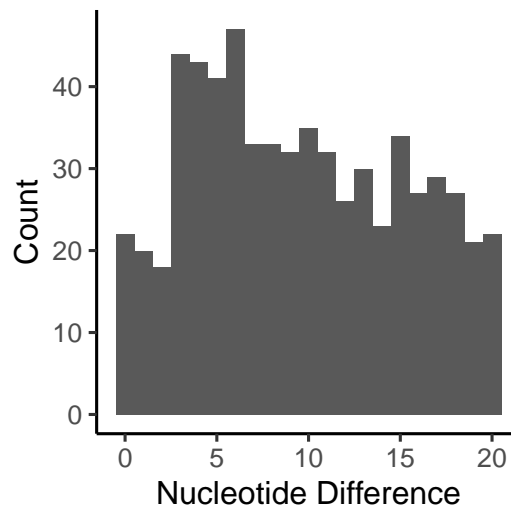
IGHV1-3*04

59 sequences assigned
No exact matches.



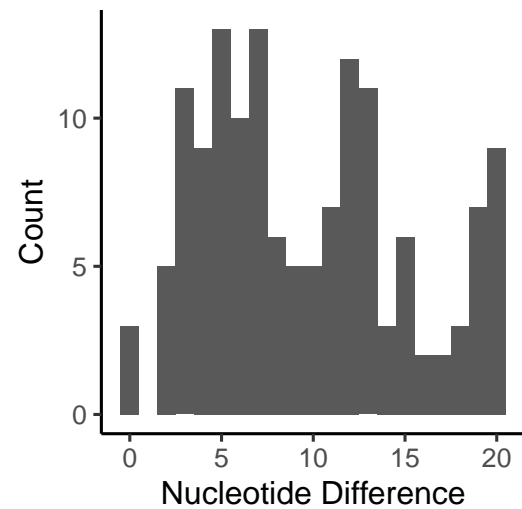
IGHV1-18*04

983 sequences assigned
22 (2.2%) exact matches, in which:
22 unique CDR3
5 unique J



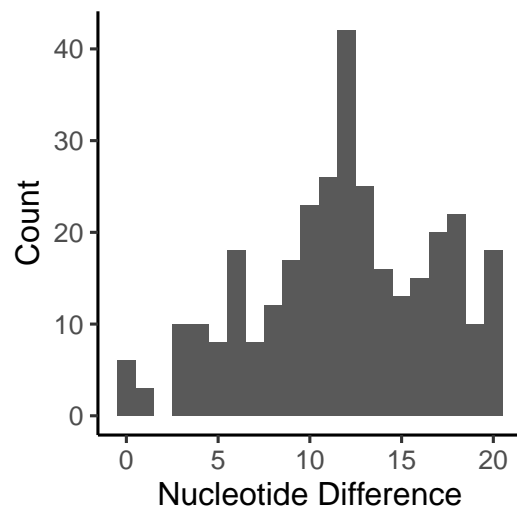
IGHV1-46*01

232 sequences assigned
3 (1.3%) exact matches, in which:
3 unique CDR3
2 unique J



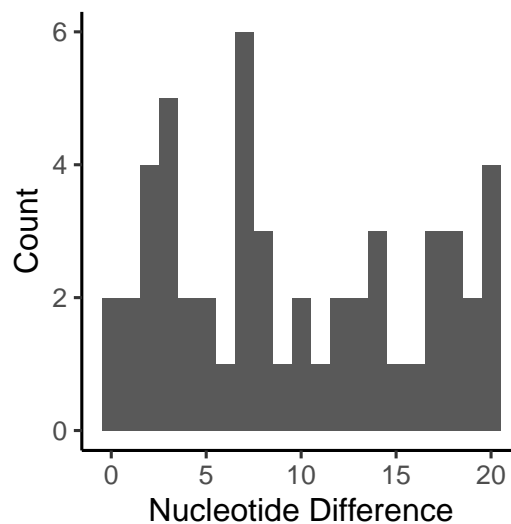
IGHV1-3*01_05

379 sequences assigned
6 (1.6%) exact matches, in which:
6 unique CDR3
2 unique J



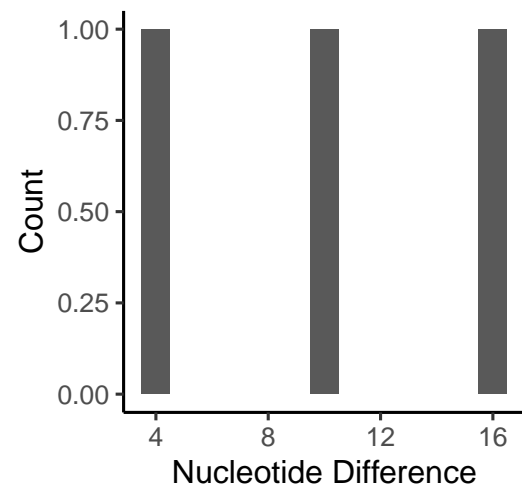
IGHV1-24*01

62 sequences assigned
2 (3.2%) exact matches, in which:
2 unique CDR3
2 unique J



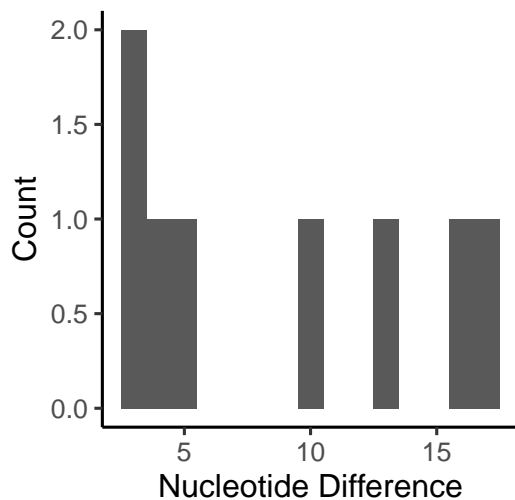
IGHV1-58*02

3 sequences assigned
No exact matches.



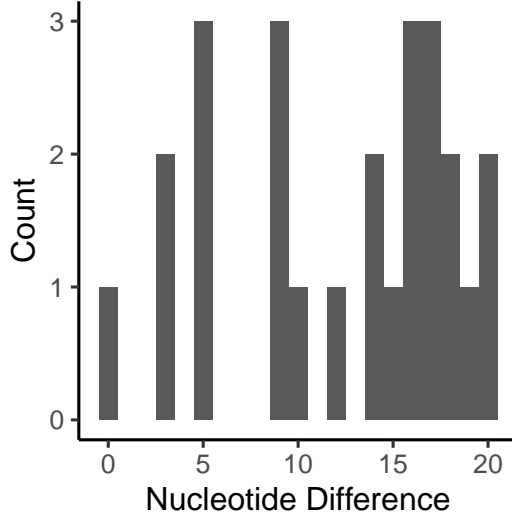
IGHV1-58*01_03

11 sequences assigned
No exact matches.



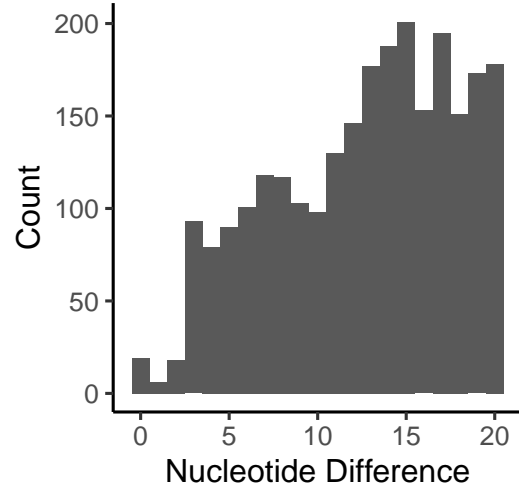
IGHV2-26*01

26 sequences assigned
1 (3.8%) exact matches, in which:
1 unique CDR3
1 unique J



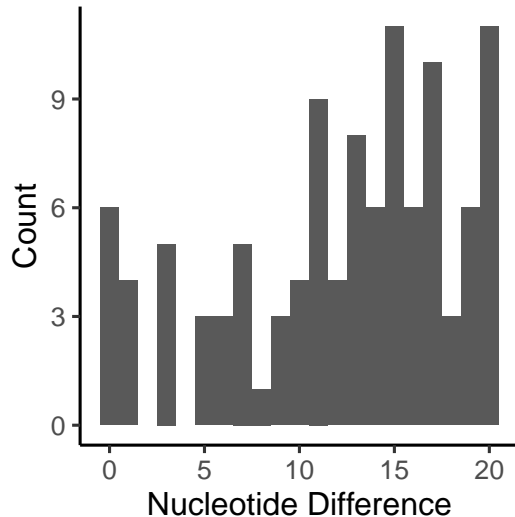
IGHV3-7*03

3638 sequences assigned
19 (0.5%) exact matches, in which:
16 unique CDR3
5 unique J



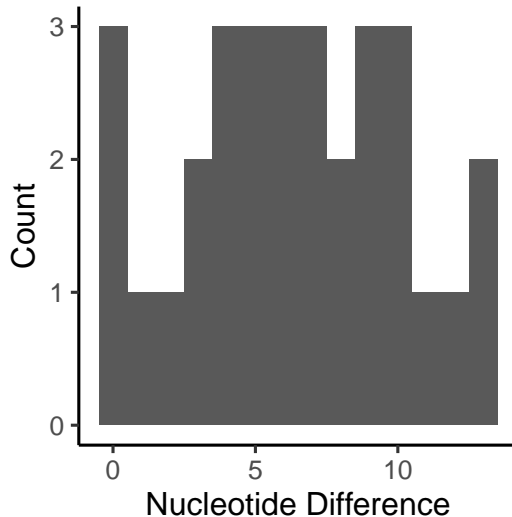
IGHV1-69*04_09

182 sequences assigned
6 (3.3%) exact matches, in which:
5 unique CDR3
2 unique J



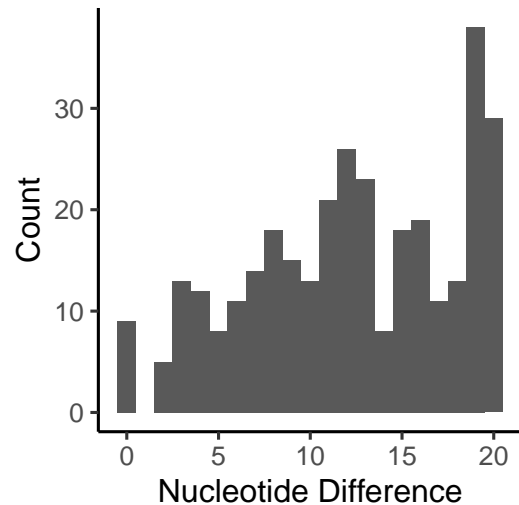
IGHV2-70*01

36 sequences assigned
3 (8.3%) exact matches, in which:
2 unique CDR3
1 unique J



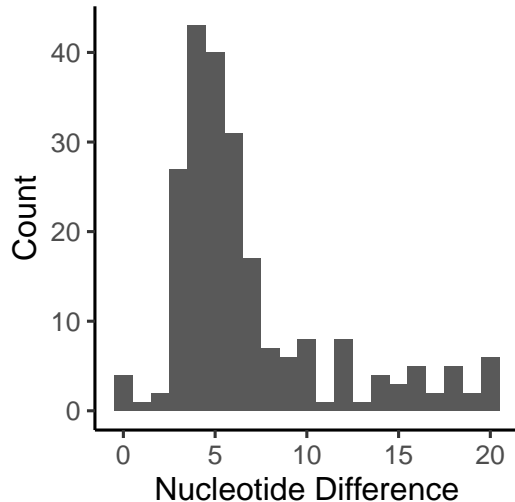
IGHV3-11*06

501 sequences assigned
9 (1.8%) exact matches, in which:
4 unique CDR3
2 unique J



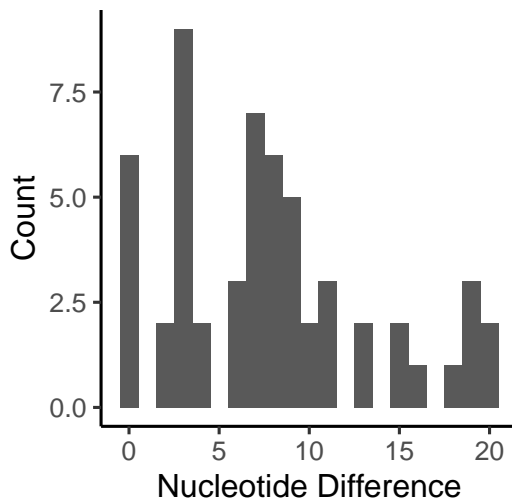
IGHV2-5*02

239 sequences assigned
4 (1.7%) exact matches, in which:
4 unique CDR3
3 unique J



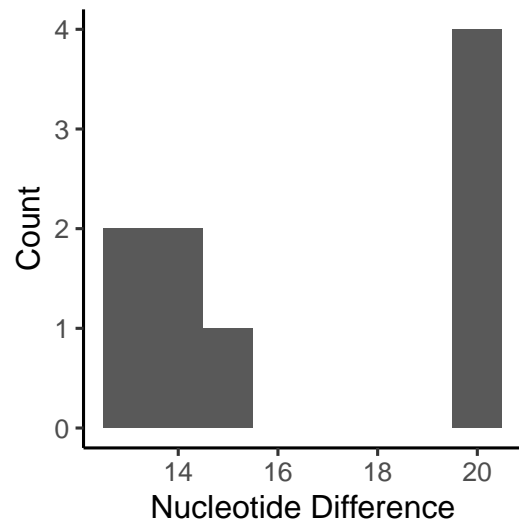
IGHV2-70*11_15

64 sequences assigned
6 (9.4%) exact matches, in which:
5 unique CDR3
2 unique J



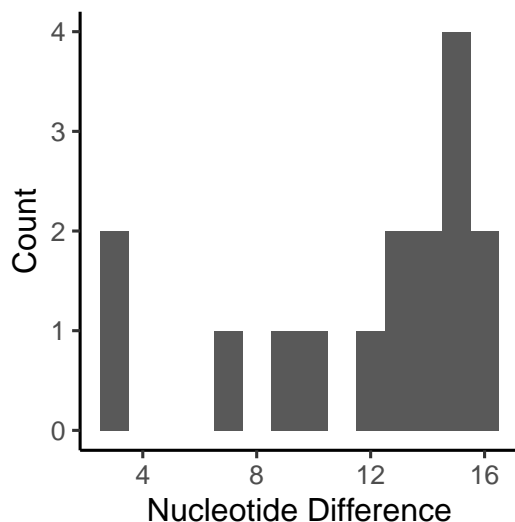
IGHV3-13*01

17 sequences assigned
No exact matches.



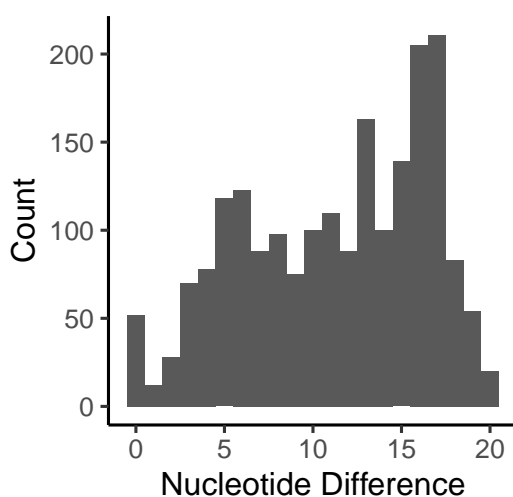
IGHV3-13*05

22 sequences assigned
No exact matches.



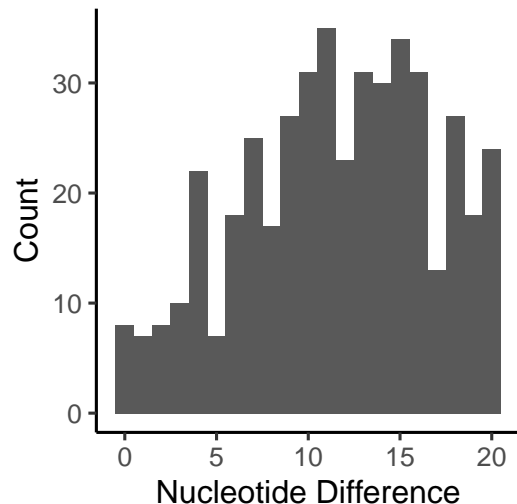
IGHV3-21*01_02

2193 sequences assigned
52 (2.4%) exact matches, in which:
27 unique CDR3
4 unique J



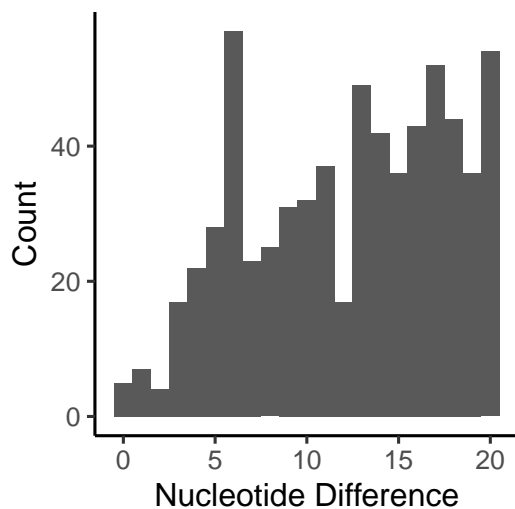
IGHV3-33*01

602 sequences assigned
8 (1.3%) exact matches, in which:
5 unique CDR3
2 unique J



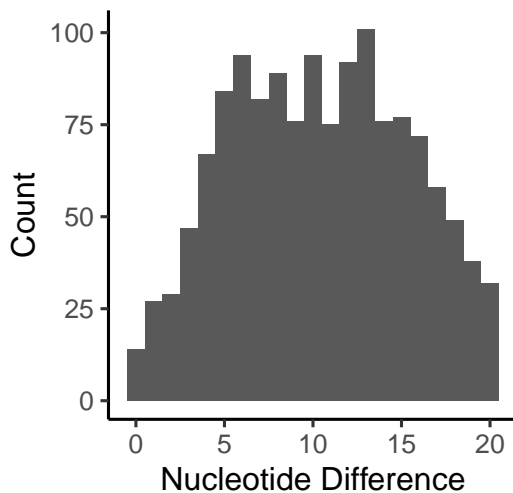
IGHV3-15*01_02

1043 sequences assigned
5 (0.5%) exact matches, in which:
4 unique CDR3
1 unique J



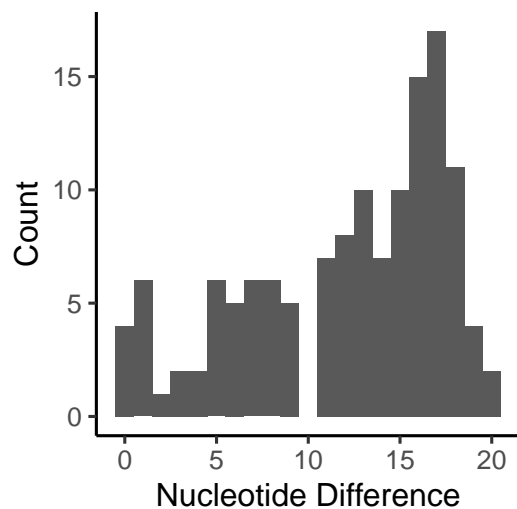
IGHV3-30-3*01

1560 sequences assigned
14 (0.9%) exact matches, in which:
11 unique CDR3
4 unique J



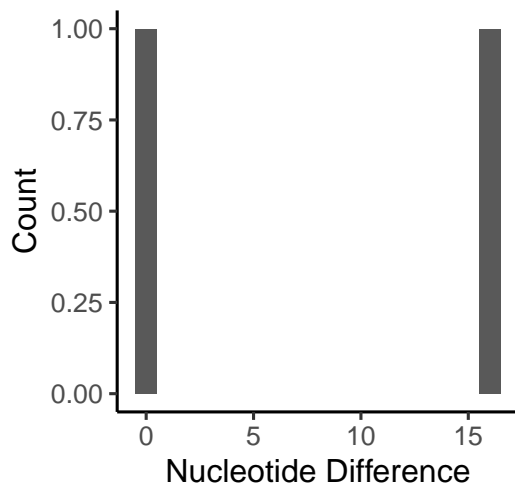
IGHV3-43*01

152 sequences assigned
4 (2.6%) exact matches, in which:
2 unique CDR3
2 unique J



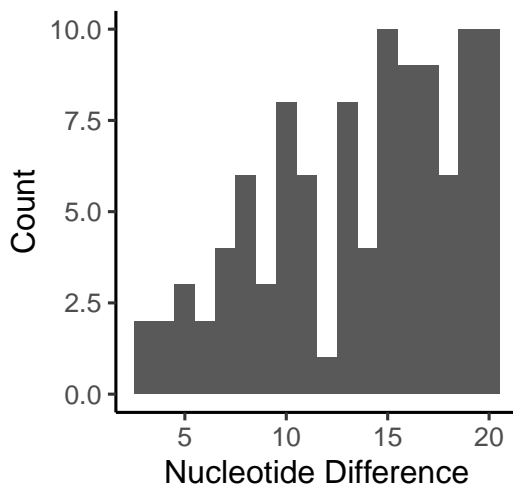
IGHV3-20*01_02

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



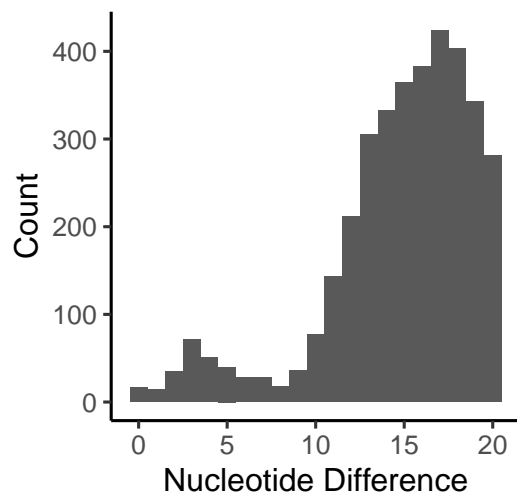
IGHV3-30*04

137 sequences assigned
No exact matches.



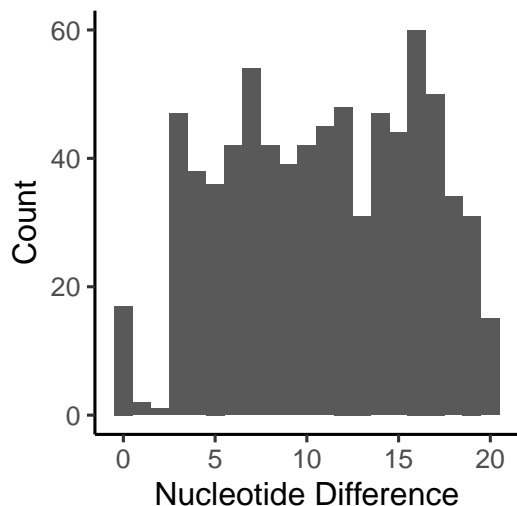
IGHV3-48*02

4927 sequences assigned
17 (0.3%) exact matches, in which:
9 unique CDR3
2 unique J



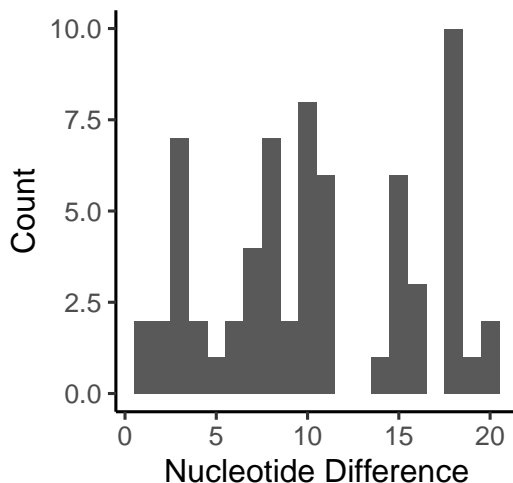
IGHV3-48*04

944 sequences assigned
17 (1.8%) exact matches, in which:
9 unique CDR3
2 unique J



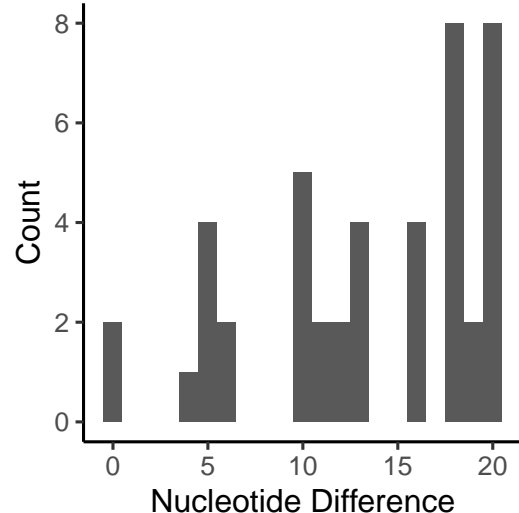
IGHV3-64*01

94 sequences assigned
No exact matches.



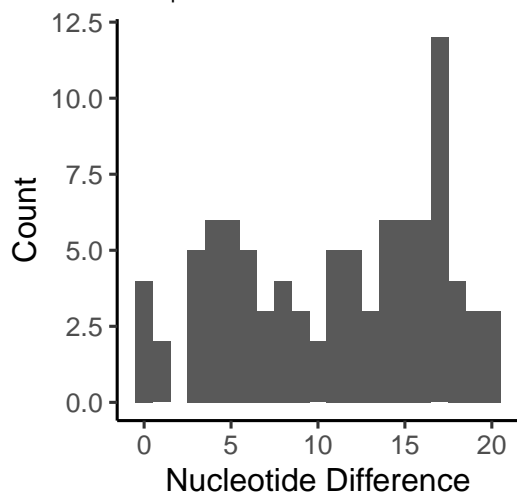
IGHV3-66*04

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



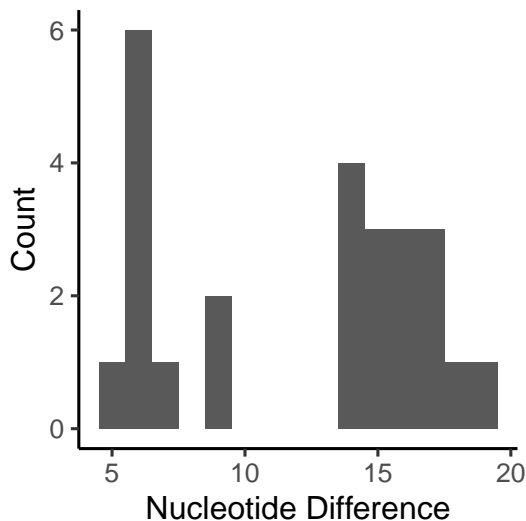
IGHV3-49*03_05

115 sequences assigned
4 (3.5%) exact matches, in which:
3 unique CDR3
1 unique J



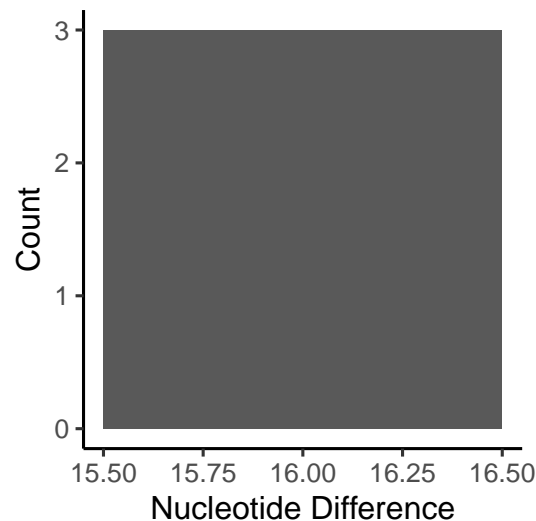
IGHV3-64*02_07

30 sequences assigned
No exact matches.



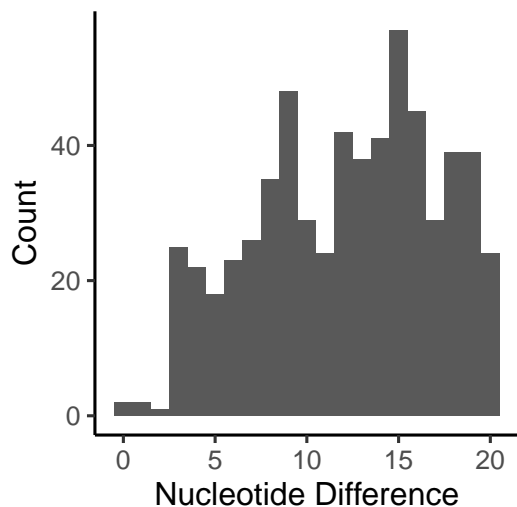
IGHV3-69-1*02

6 sequences assigned
No exact matches.



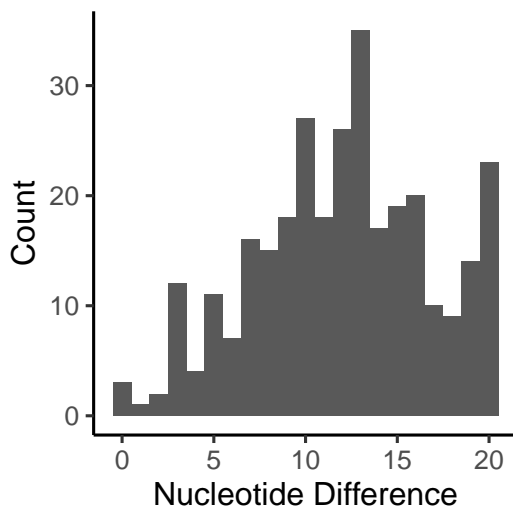
IGHV3-53*01_02

774 sequences assigned
2 (0.3%) exact matches, in which:
2 unique CDR3
2 unique J



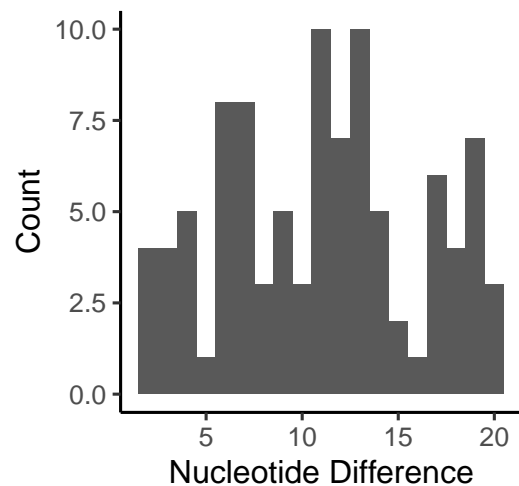
IGHV3-66*01

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



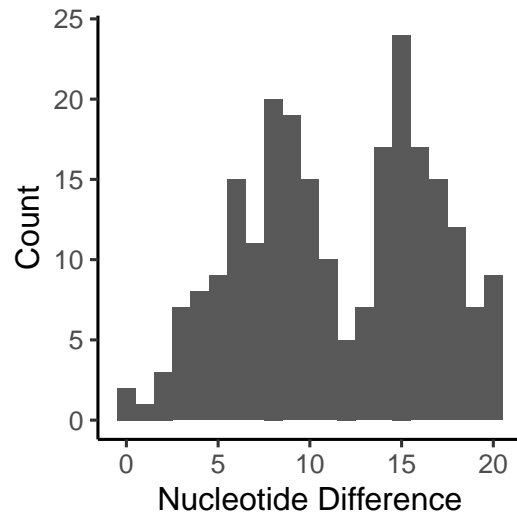
IGHV3-72*01

123 sequences assigned
No exact matches.



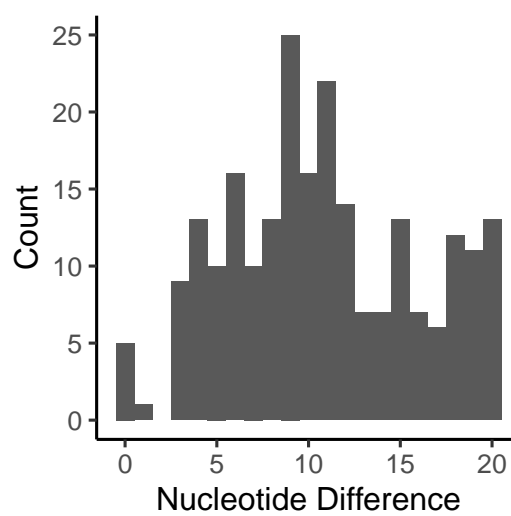
IGHV3-73*01_02

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



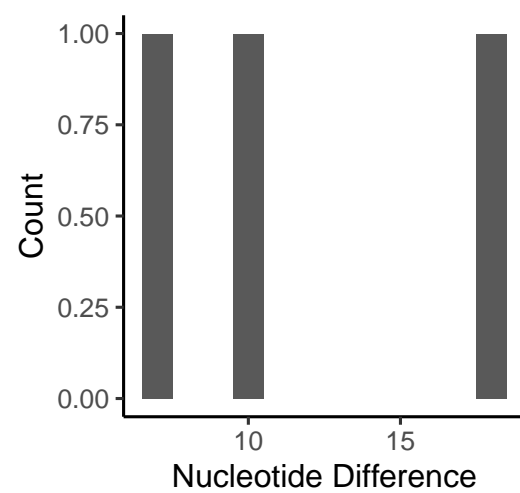
IGHV3-64D*06

471 sequences assigned
5 (1.1%) exact matches, in which:
5 unique CDR3
3 unique J



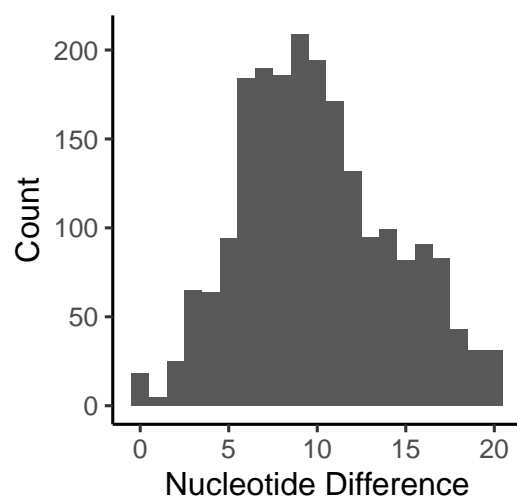
IGHV4-28*03

3 sequences assigned
No exact matches.



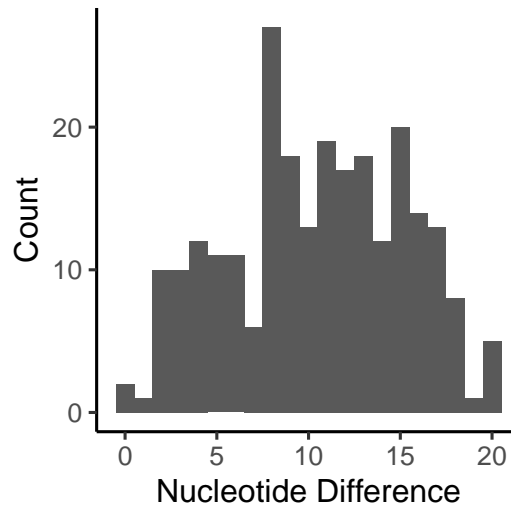
IGHV3-74*01_02

2226 sequences assigned
18 (0.8%) exact matches, in which:
11 unique CDR3
4 unique J



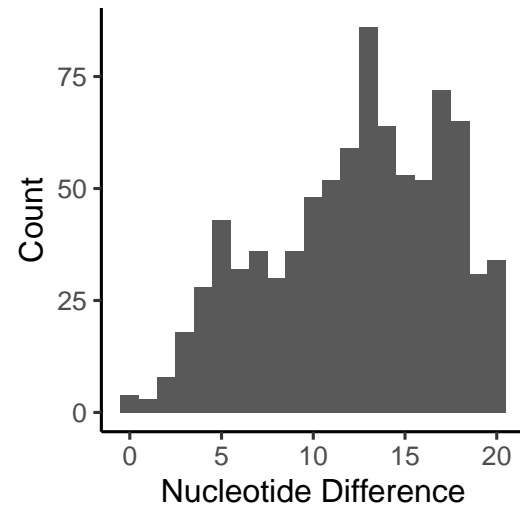
IGHV3-64D*09

290 sequences assigned
2 (0.7%) exact matches, in which:
1 unique CDR3
1 unique J



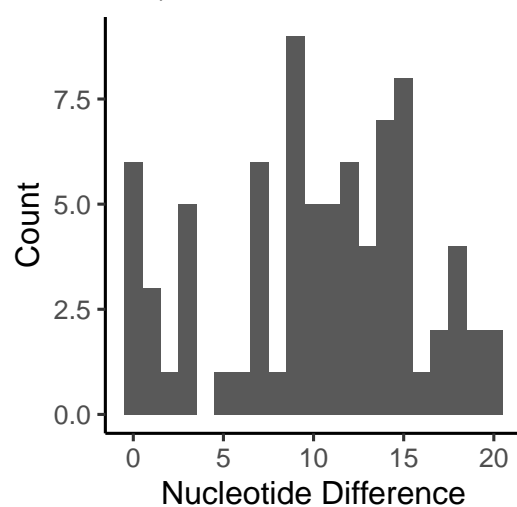
IGHV4-30-4*01

948 sequences assigned
4 (0.4%) exact matches, in which:
3 unique CDR3
1 unique J



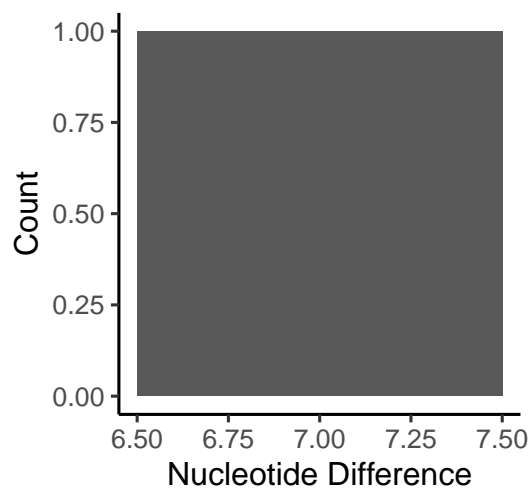
IGHV3-43D*03

88 sequences assigned
6 (6.8%) exact matches, in which:
3 unique CDR3
1 unique J



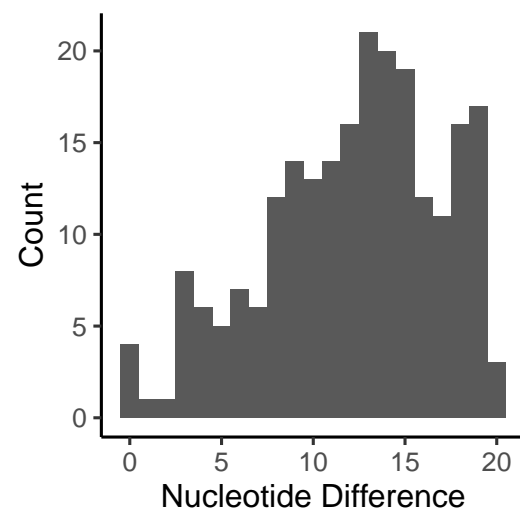
IGHV3-NL1*01

3 sequences assigned
No exact matches.



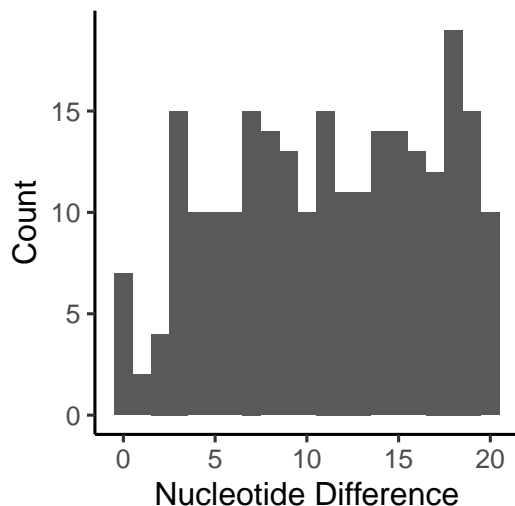
IGHV4-30-2*01

309 sequences assigned
4 (1.3%) exact matches, in which:
4 unique CDR3
2 unique J



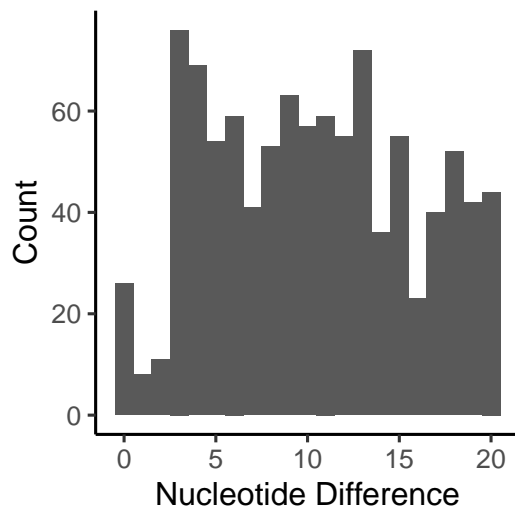
IGHV4-31*03_04

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



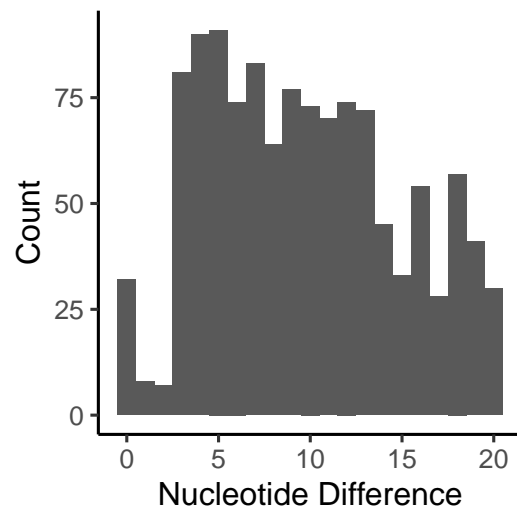
IGHV4-39*07

1393 sequences assigned
26 (1.9%) exact matches, in which:
17 unique CDR3
4 unique J



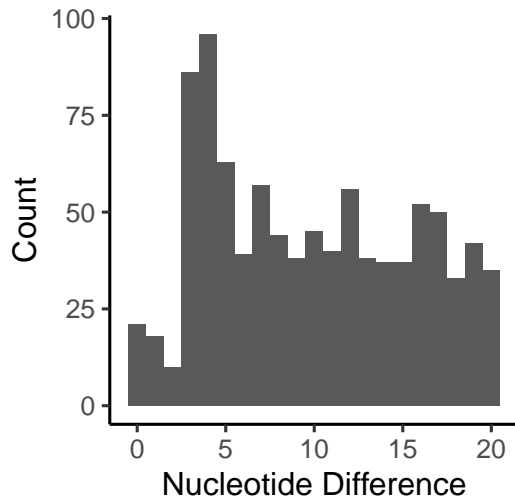
IGHV4-59*01_07

1510 sequences assigned
32 (2.1%) exact matches, in which:
25 unique CDR3
6 unique J



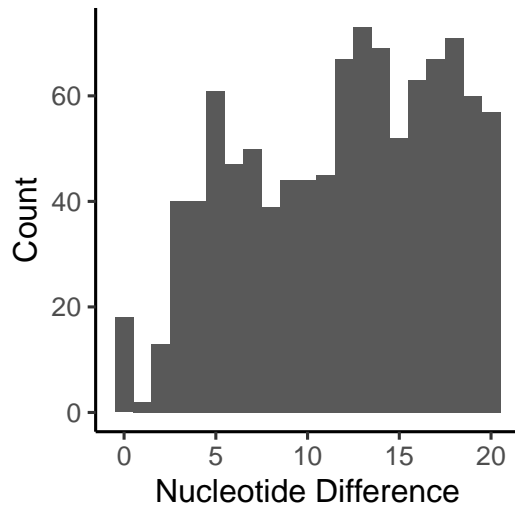
IGHV4-34*01_02

1416 sequences assigned
21 (1.5%) exact matches, in which:
18 unique CDR3
4 unique J



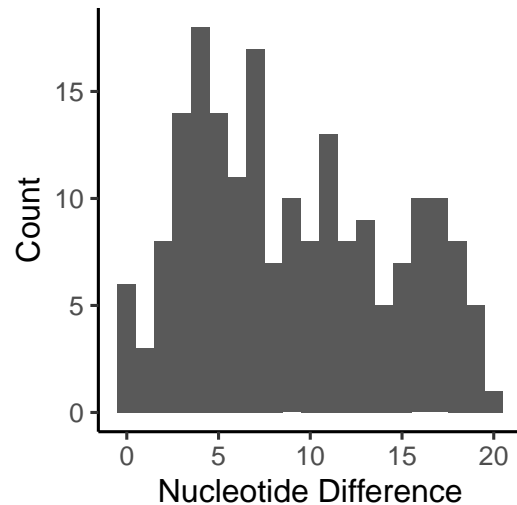
IGHV4-39*01_05

1471 sequences assigned
18 (1.2%) exact matches, in which:
14 unique CDR3
5 unique J



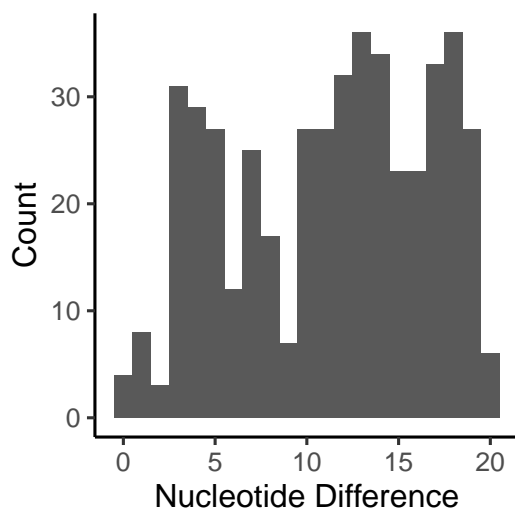
IGHV4-61*01

265 sequences assigned
6 (2.3%) exact matches, in which:
5 unique CDR3
2 unique J



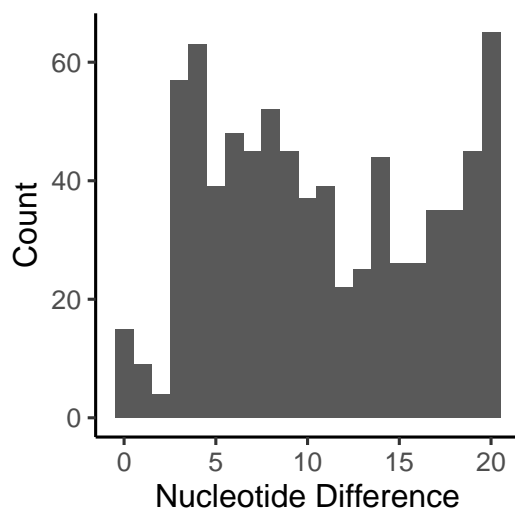
IGHV4-38-2*02

607 sequences assigned
4 (0.7%) exact matches, in which:
2 unique CDR3
2 unique J



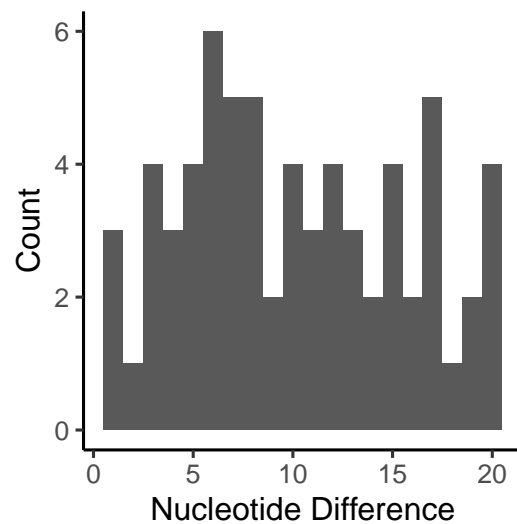
IGHV4-59*08

1241 sequences assigned
15 (1.2%) exact matches, in which:
7 unique CDR3
4 unique J



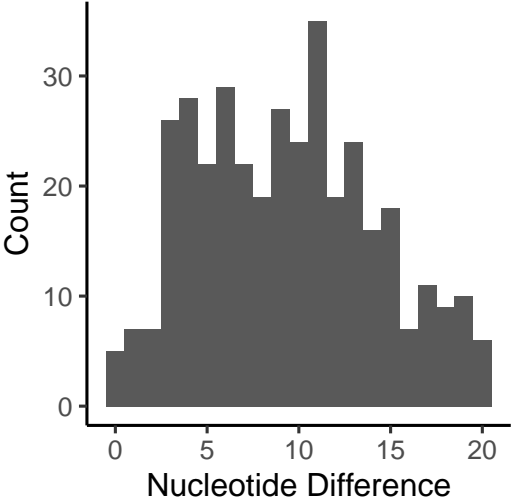
IGHV5-10-1*01_03

81 sequences assigned
No exact matches.



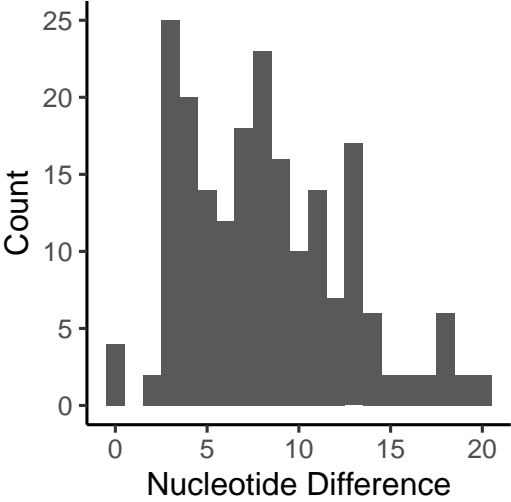
IGHV5-51*01_03

400 sequences assigned
5 (1.2%) exact matches, in which:
5 unique CDR3
3 unique J



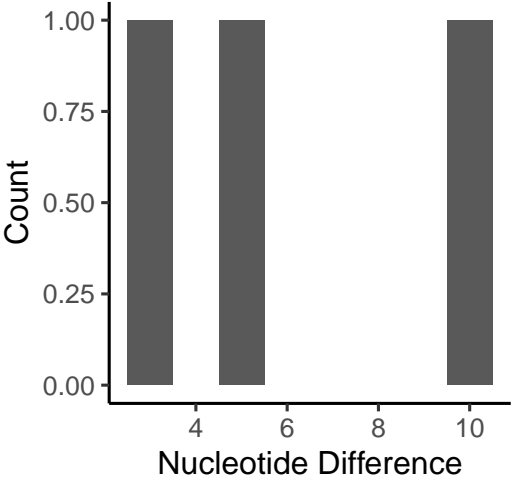
IGHV6-1*01_02

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



IGHV7-4-1*02

3 sequences assigned
No exact matches.





Warning – no inferred sequences found.

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

Warning – no inferred sequences found.

Novel sequence(s) IGHV4–59*02_G88A IGHV5–51*07_A128G are not listed in the genotype and will be ignored.

Warning – no inferred sequences found.

Novel sequence(s) IGHV4–59*02_G88A IGHV5–51*07_A128G are not listed in the genotype and will be ignored.

Warning – no inferred sequences found.

Novel sequence(s) IGHV4–59*02_G88A IGHV5–51*07_A128G are not listed in the genotype and will be ignored.

Novel sequence(s) IGHV4–59*02_G88A are not listed in the genotype and will be ignored.

Warning – no inferred sequences found.

Novel sequence(s) IGHV4–59*02_G88A IGHV5–51*07_A128G are not listed in the genotype and will be ignored.

Warning – no inferred sequences found.

Novel sequence(s) IGHV4–59*02_G88A IGHV5–51*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.

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

Novel sequence(s) IGHV4–59*02_G88A IGHV5–51*07_A128G are not listed in the genotype and will be ignored.

Novel sequence(s) IGHV4–59*02_G88A IGHV5–51*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.

Novel sequence(s) IGHV1–69*04_09_G112A IGHV4–59*02_G88A IGHV5–51*07_A128G are not listed in the genotype and will be ignored.

Novel sequence(s) IGHV4–59*02_G88A IGHV5–51*07_A128G are not listed in the genotype and will be ignored.

Warning – no inferred sequences found.

Novel sequence(s) IGHV4–59*02_G88A IGHV5–51*07_A128G are not listed in the genotype and will be ignored.

Novel sequence(s) IGHV4–59*02_G88A are not listed in the genotype and will be ignored.

Novel sequence(s) IGHV4–59*02_G88A are not listed in the genotype and will be ignored.

Novel sequence(s) IGHV4–59*02_G88A IGHV5–51*07_A128G are not listed in the genotype and will be ignored.

Novel sequence(s) IGHV4–59*02_G88A IGHV5–51*07_A128G are not listed in the genotype and will be ignored.

Warning – no inferred sequences found.

Warning – no inferred sequences found.

Warning – no inferred sequences found.

Novel sequence(s) IGHV4–59*02_G88A IGHV5–51*07_A128G are not listed in the genotype and will be ignored.

Warning – no inferred sequences found.