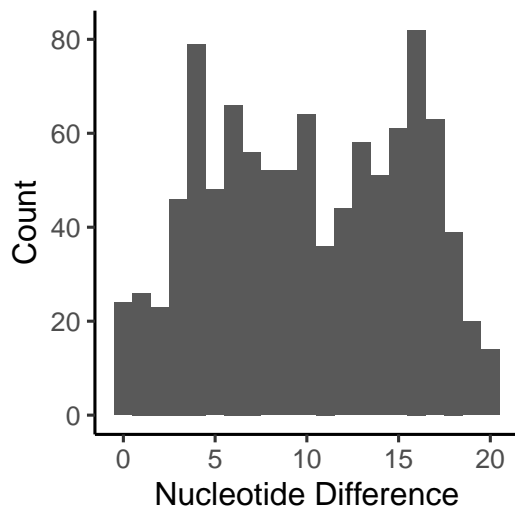


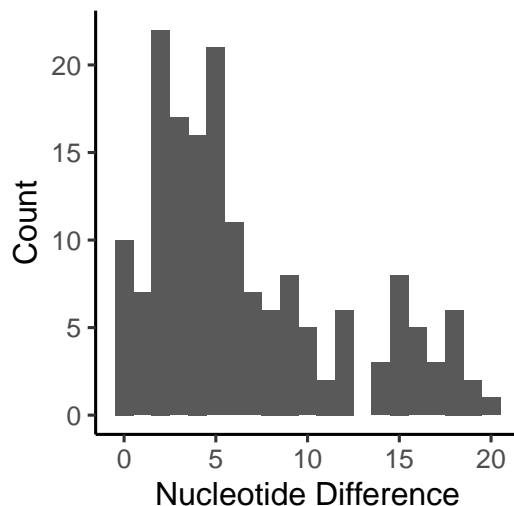
IGHV1-2*02

1079 sequences assigned
24 (2.2%) exact matches, in which:
20 unique CDR3
3 unique J



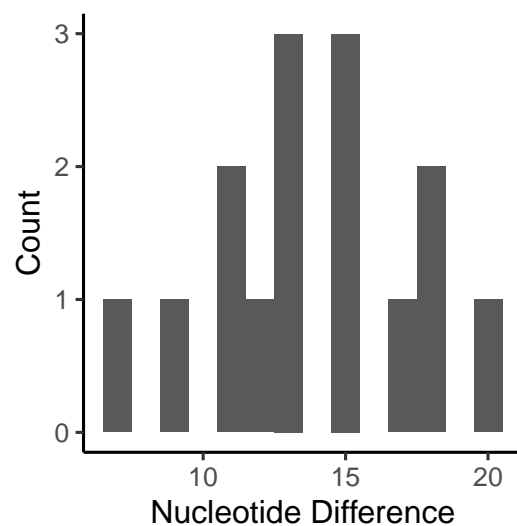
IGHV1-8*03

173 sequences assigned
10 (5.8%) exact matches, in which:
10 unique CDR3
3 unique J



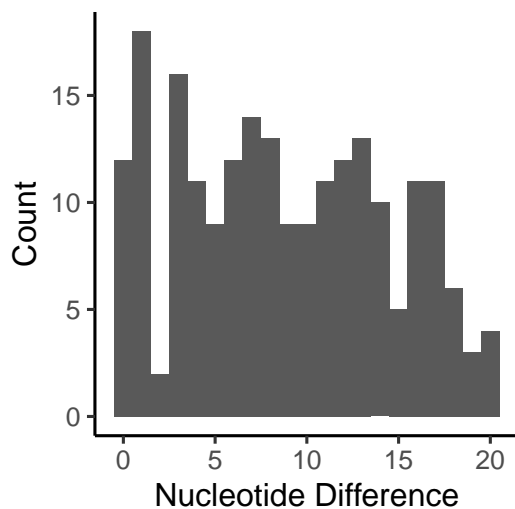
IGHV1-45*02

28 sequences assigned
No exact matches.



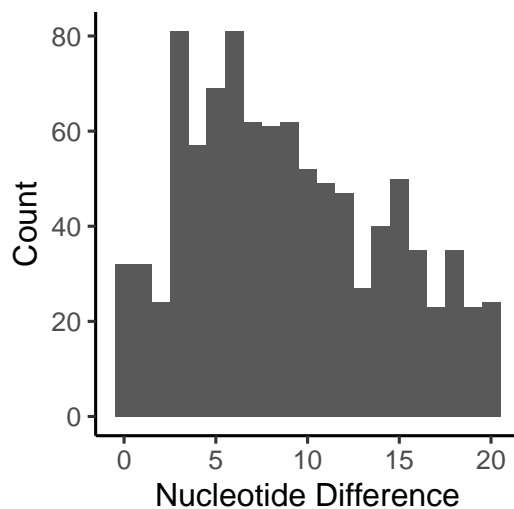
IGHV1-3*01_05

230 sequences assigned
12 (5.2%) exact matches, in which:
7 unique CDR3
3 unique J



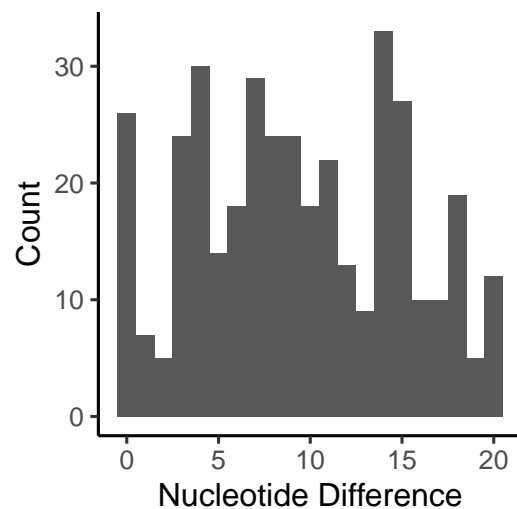
IGHV1-18*04

1087 sequences assigned
32 (2.9%) exact matches, in which:
26 unique CDR3
4 unique J



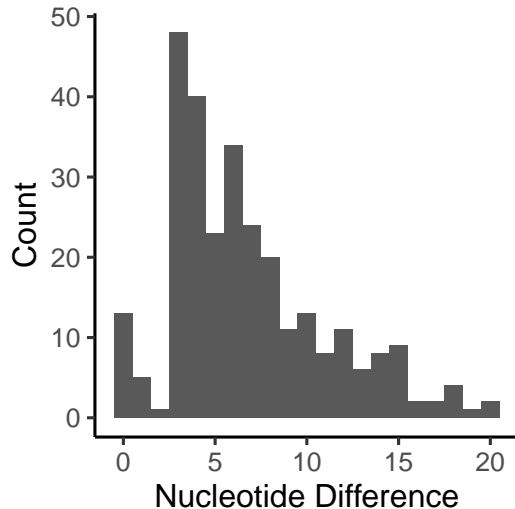
IGHV1-46*01

461 sequences assigned
26 (5.6%) exact matches, in which:
21 unique CDR3
4 unique J



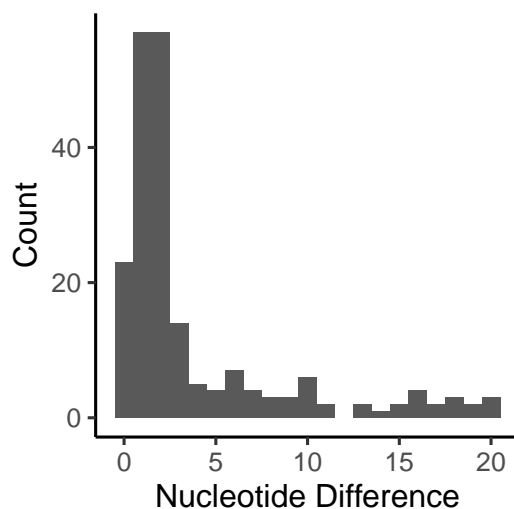
IGHV1-8*01

297 sequences assigned
13 (4.4%) exact matches, in which:
13 unique CDR3
2 unique J



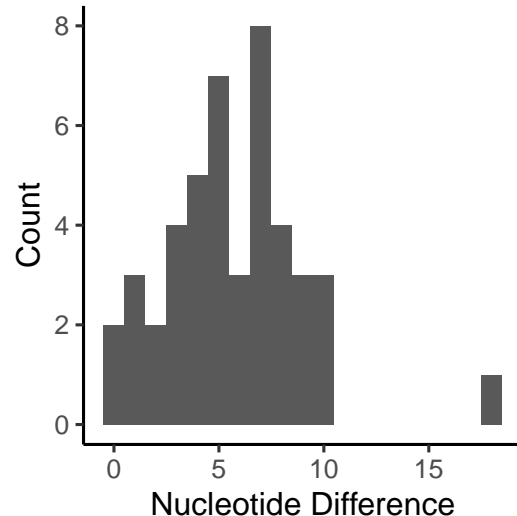
IGHV1-24*01

213 sequences assigned
23 (10.8%) exact matches, in which:
18 unique CDR3
5 unique J



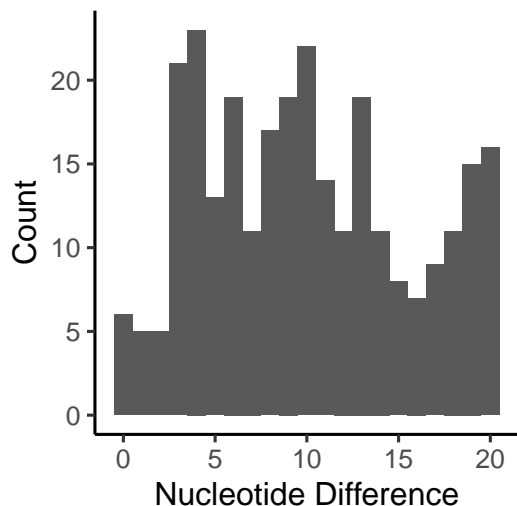
IGHV1-58*01_03

46 sequences assigned
2 (4.3%) exact matches, in which:
2 unique CDR3
1 unique J



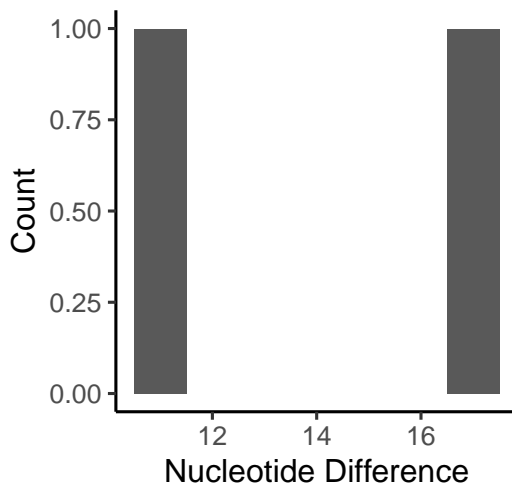
IGHV2-5*01

330 sequences assigned
6 (1.8%) exact matches, in which:
5 unique CDR3
3 unique J



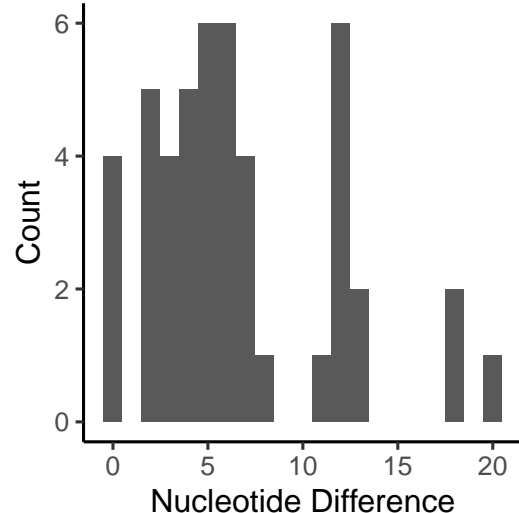
IGHV2-70D*04

2 sequences assigned
No exact matches.



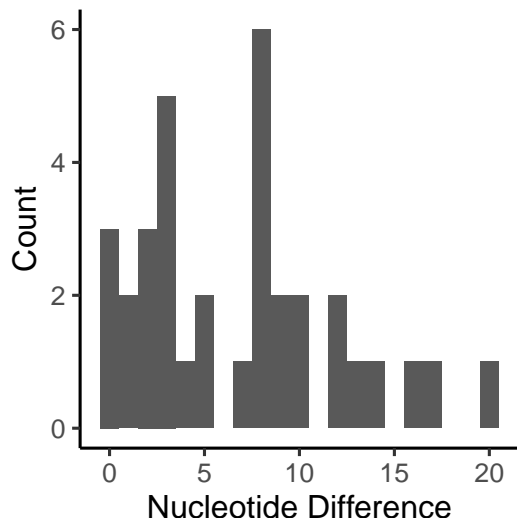
IGHV3-9*03

48 sequences assigned
4 (8.3%) exact matches, in which:
3 unique CDR3
2 unique J



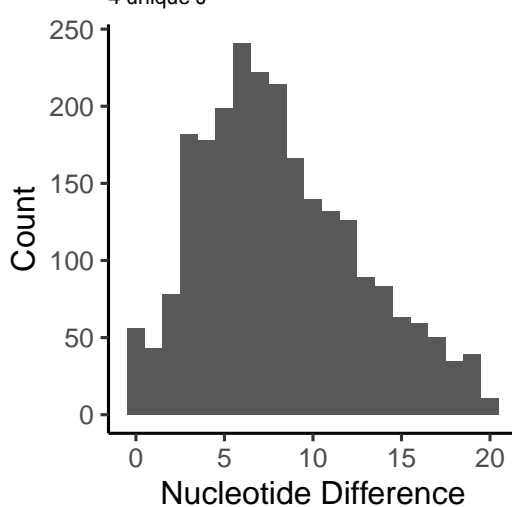
IGHV2-26*01

37 sequences assigned
3 (8.1%) exact matches, in which:
3 unique CDR3
2 unique J



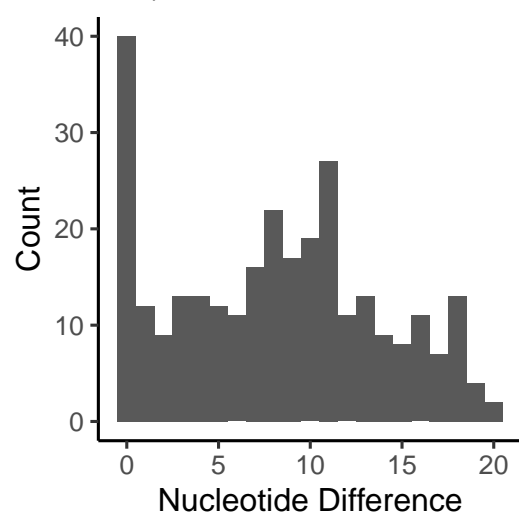
IGHV3-7*01

2468 sequences assigned
56 (2.3%) exact matches, in which:
30 unique CDR3
4 unique J



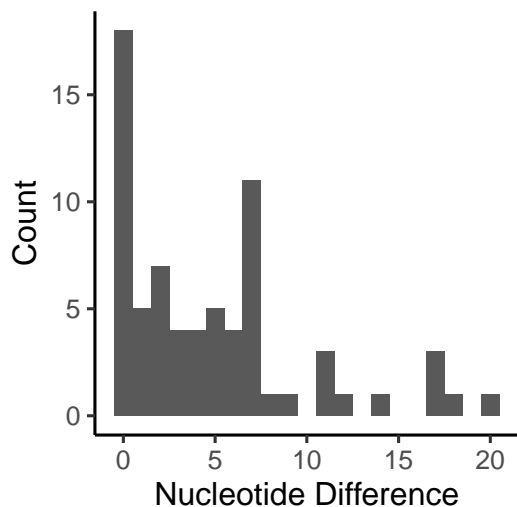
IGHV3-11*01

313 sequences assigned
40 (12.8%) exact matches, in which:
16 unique CDR3
4 unique J



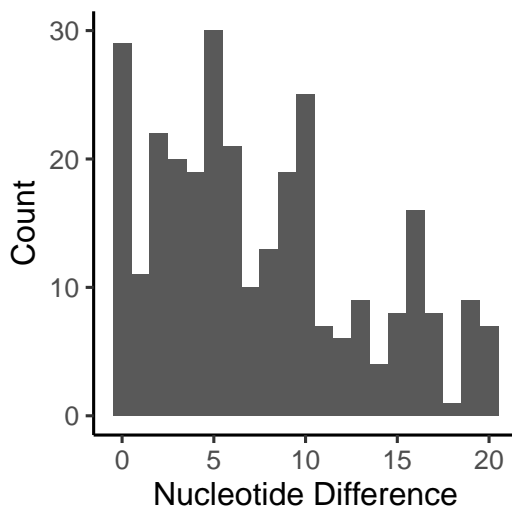
IGHV2-70*01

70 sequences assigned
18 (25.7%) exact matches, in which:
8 unique CDR3
3 unique J



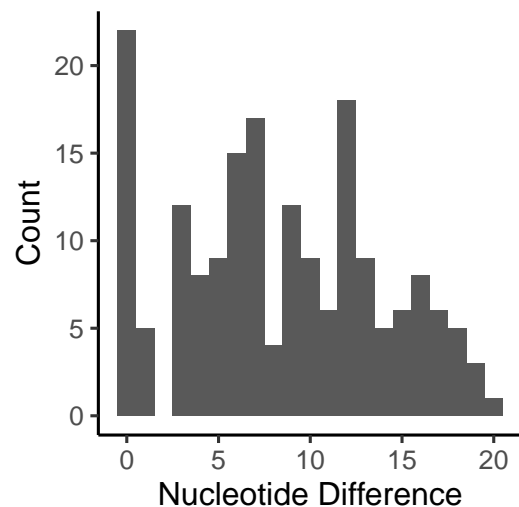
IGHV3-9*01

310 sequences assigned
29 (9.4%) exact matches, in which:
16 unique CDR3
5 unique J



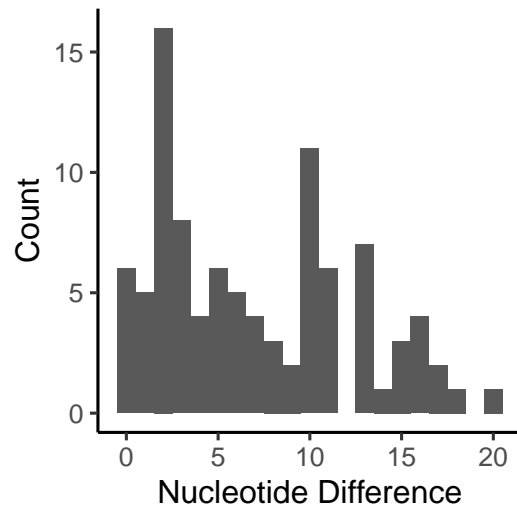
IGHV3-11*04

207 sequences assigned
22 (10.6%) exact matches, in which:
9 unique CDR3
4 unique J



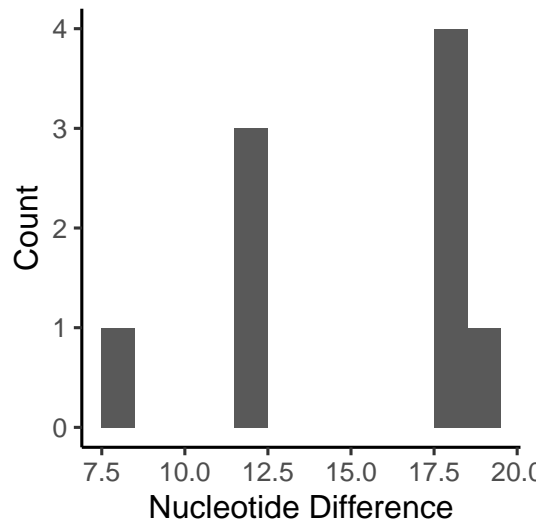
IGHV3-13*01

98 sequences assigned
6 (6.1%) exact matches, in which:
4 unique CDR3
2 unique J



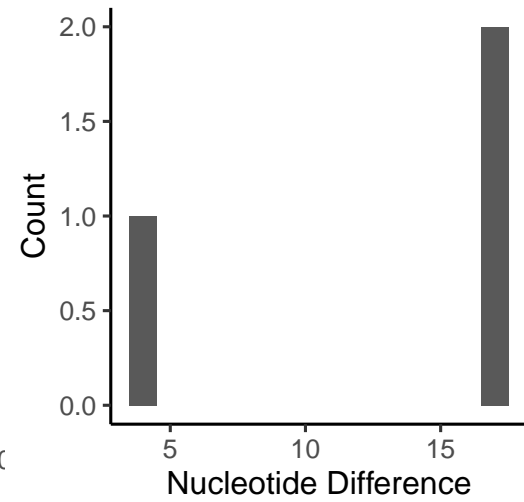
IGHV3-20*03_04

9 sequences assigned
No exact matches.



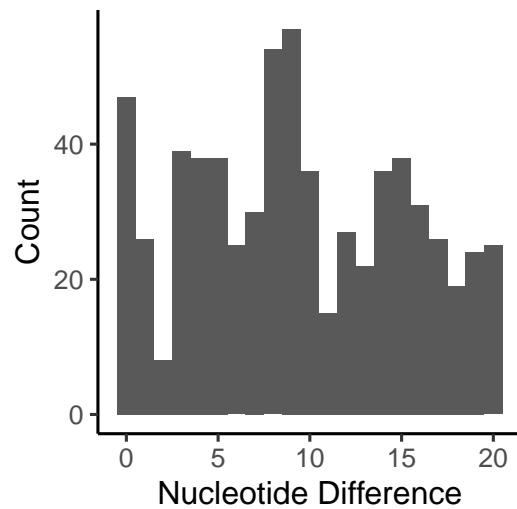
IGHV3-30-3*03

4 sequences assigned
No exact matches.



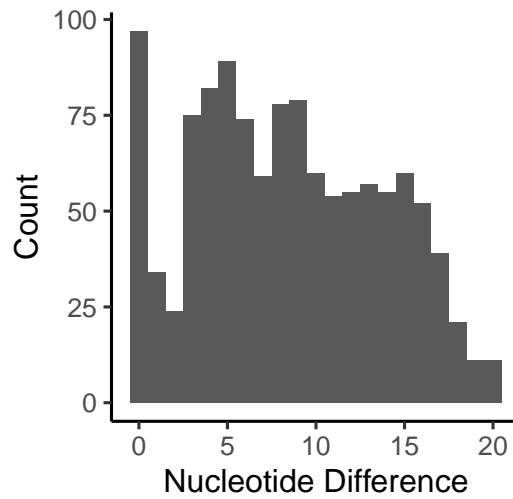
IGHV3-15*01_02

761 sequences assigned
47 (6.2%) exact matches, in which:
19 unique CDR3
3 unique J



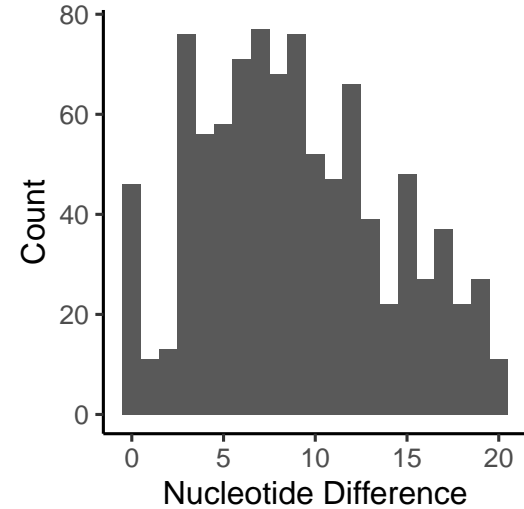
IGHV3-21*01_02

1427 sequences assigned
97 (6.8%) exact matches, in which:
50 unique CDR3
5 unique J



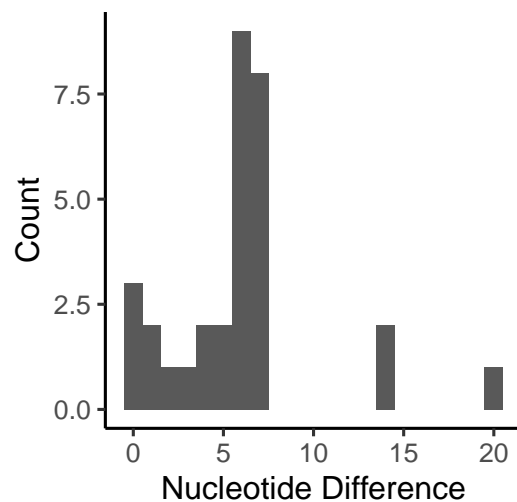
IGHV3-33*01

1053 sequences assigned
46 (4.4%) exact matches, in which:
27 unique CDR3
4 unique J



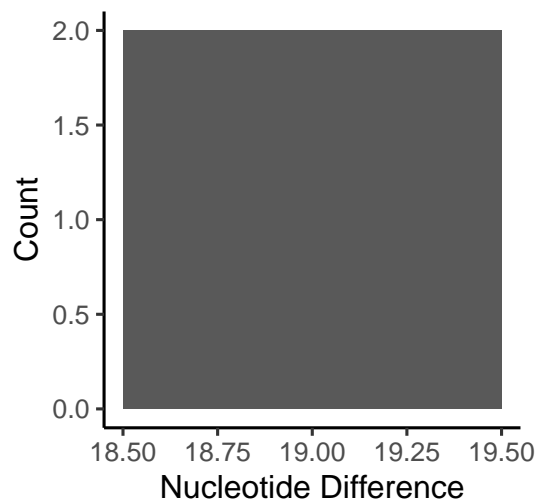
IGHV3-20*01_02

31 sequences assigned
3 (9.7%) exact matches, in which:
1 unique CDR3
1 unique J



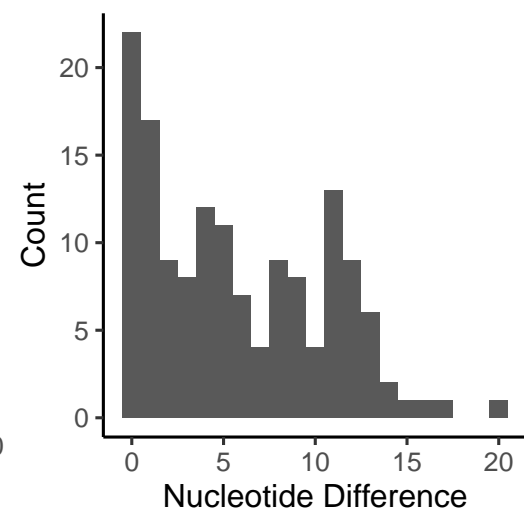
IGHV3-22*01_02

2 sequences assigned
No exact matches.



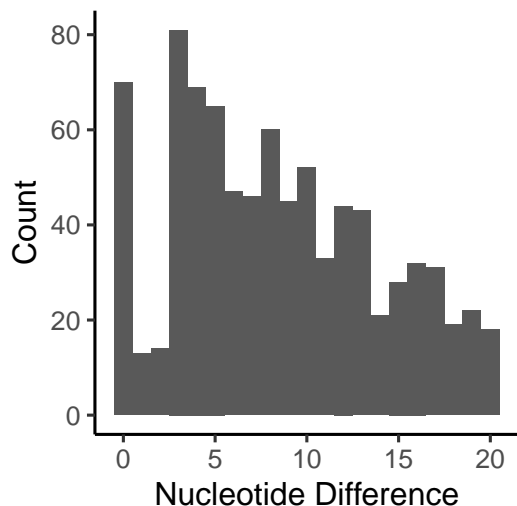
IGHV3-43*01

147 sequences assigned
22 (15%) exact matches, in which:
10 unique CDR3
2 unique J



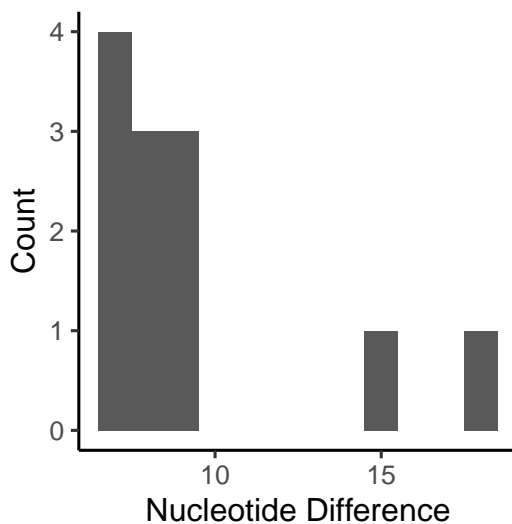
IGHV3-48*02

912 sequences assigned
70 (7.7%) exact matches, in which:
39 unique CDR3
4 unique J



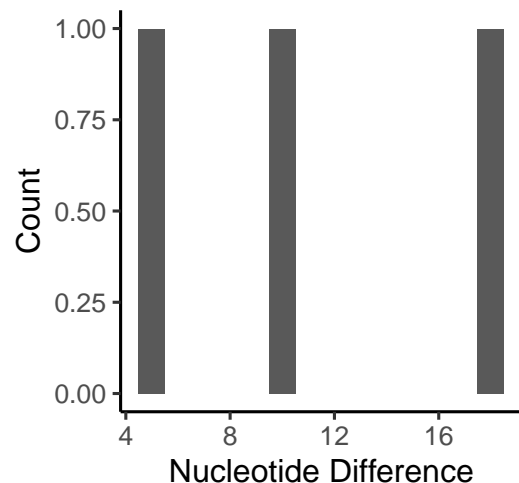
IGHV3-64*02_07

12 sequences assigned
No exact matches.



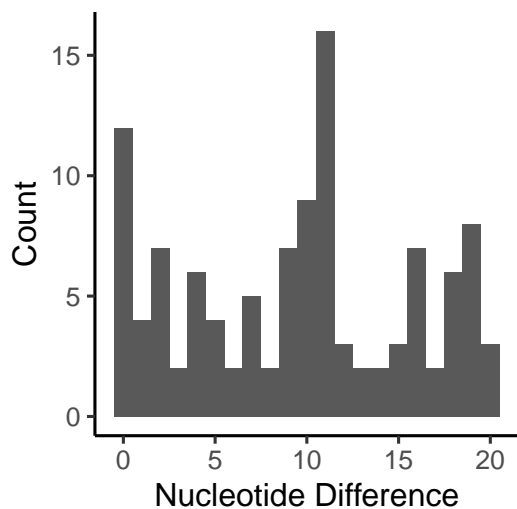
IGHV3-69-1*02

4 sequences assigned
No exact matches.



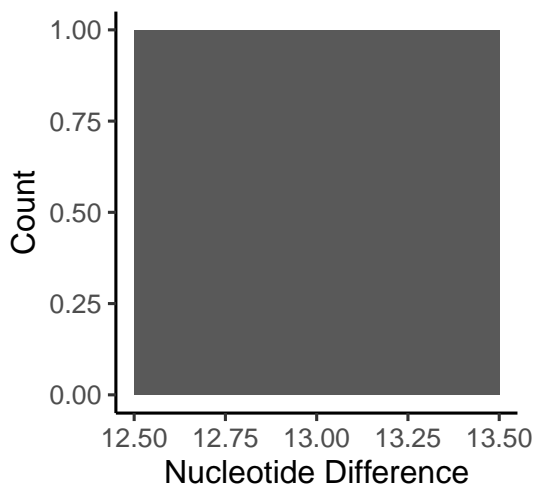
IGHV3-49*03_05

134 sequences assigned
12 (9%) exact matches, in which:
6 unique CDR3
3 unique J



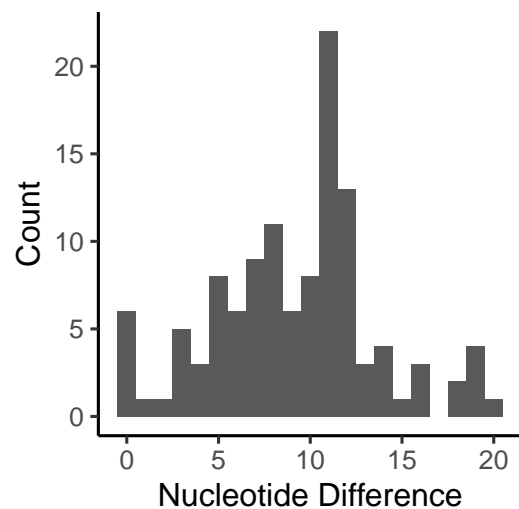
IGHV3-66*04

1 sequences assigned
No exact matches.



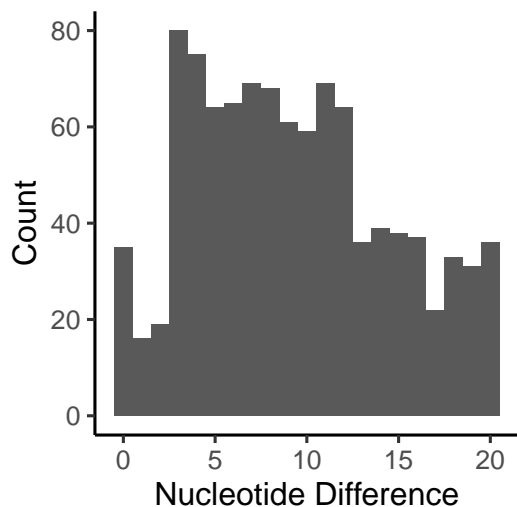
IGHV3-72*01

122 sequences assigned
6 (4.9%) exact matches, in which:
3 unique CDR3
2 unique J



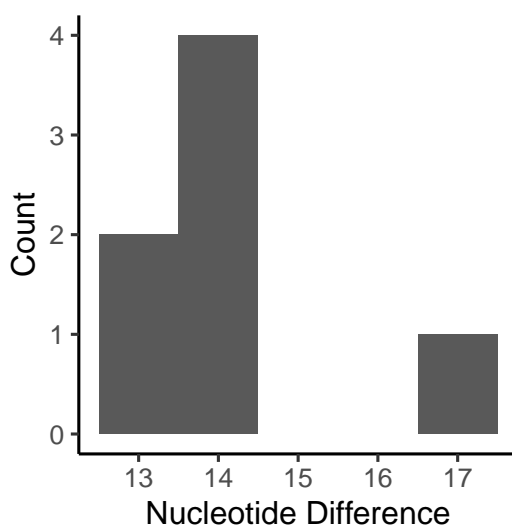
IGHV3-53*01_02

1136 sequences assigned
35 (3.1%) exact matches, in which:
19 unique CDR3
4 unique J



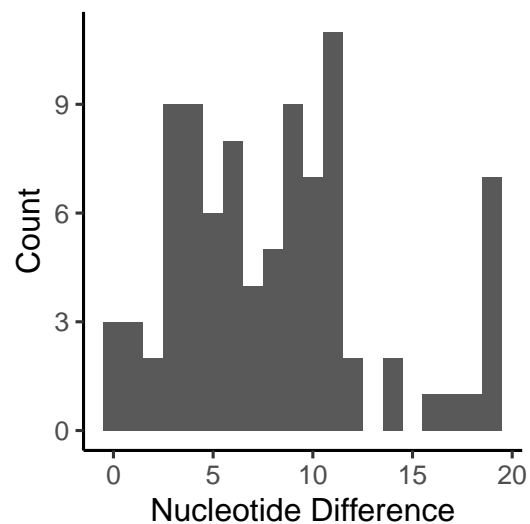
IGHV3-69-1*01

21 sequences assigned
No exact matches.



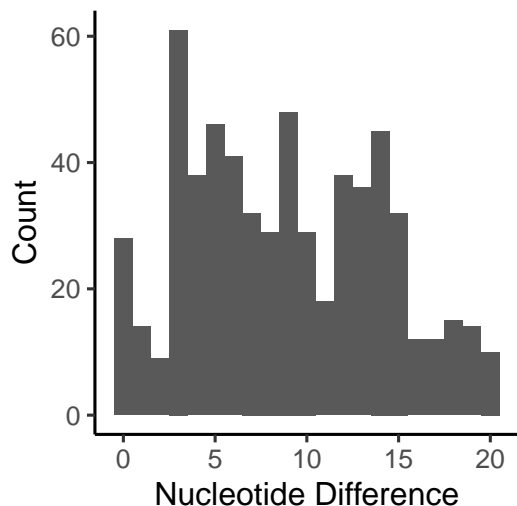
IGHV3-73*01_02

93 sequences assigned
3 (3.2%) exact matches, in which:
2 unique CDR3
1 unique J



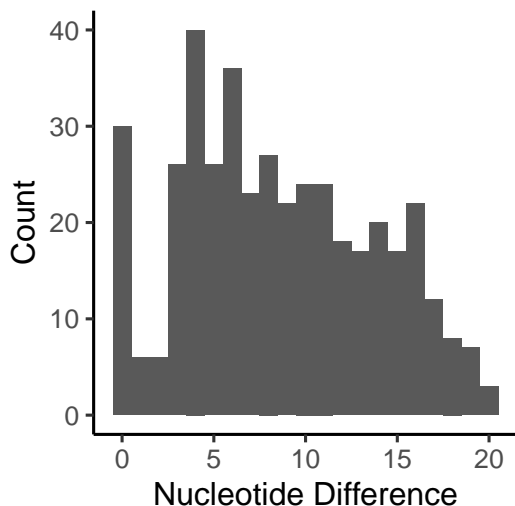
IGHV3-74*01_02

675 sequences assigned
28 (4.1%) exact matches, in which:
17 unique CDR3
3 unique J



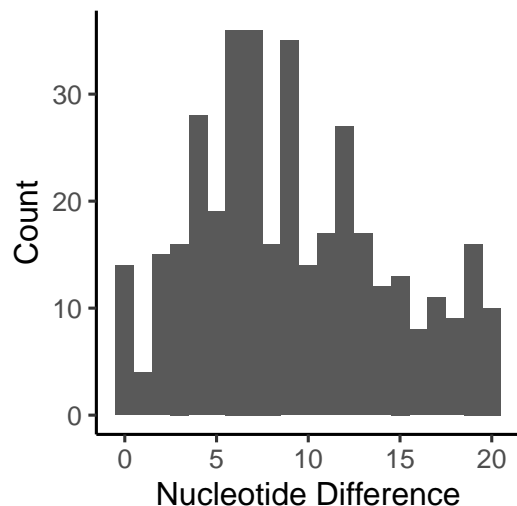
IGHV4-4*07

451 sequences assigned
30 (6.7%) exact matches, in which:
16 unique CDR3
4 unique J



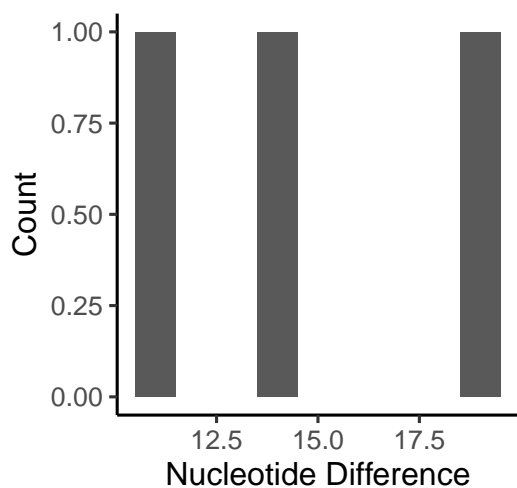
IGHV4-31*03_04

423 sequences assigned
14 (3.3%) exact matches, in which:
9 unique CDR3
4 unique J



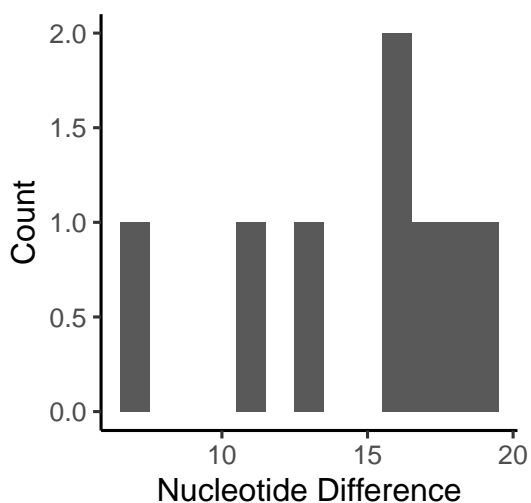
IGHV3-64D*06

3 sequences assigned
No exact matches.



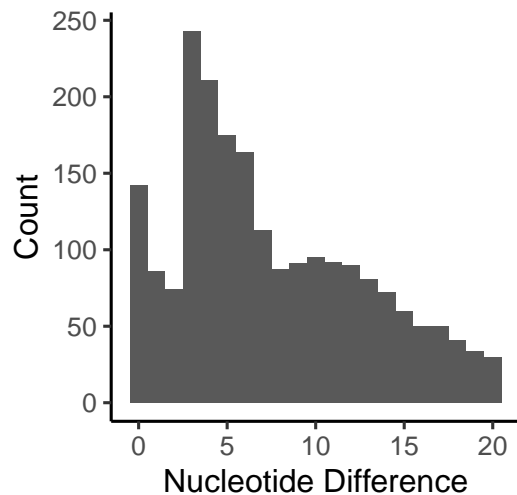
IGHV4-28*01_07

12 sequences assigned
No exact matches.



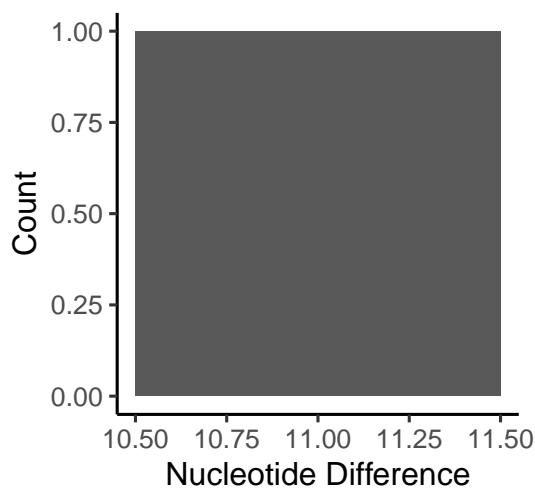
IGHV4-34*01_02

2294 sequences assigned
142 (6.2%) exact matches, in which:
84 unique CDR3
6 unique J



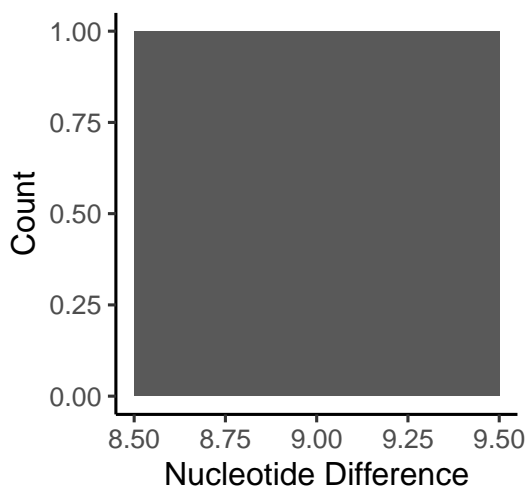
IGHV3-64D*09

1 sequences assigned
No exact matches.



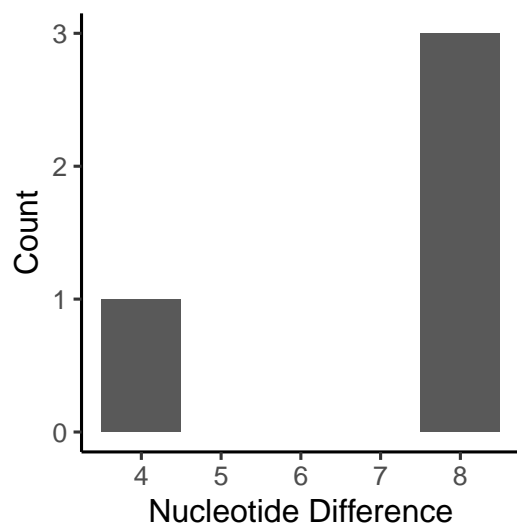
IGHV4-30-4*01

1 sequences assigned
No exact matches.



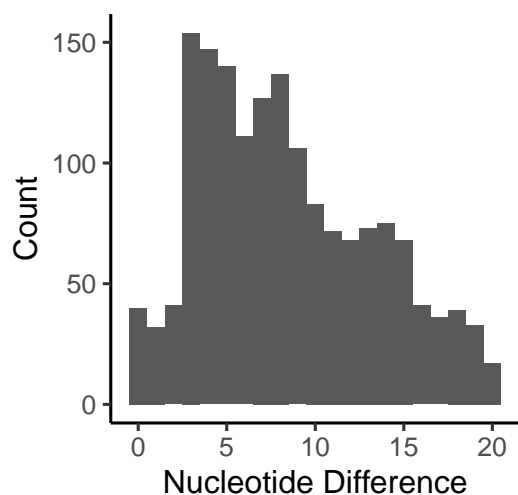
IGHV4-38-2*02

5 sequences assigned
No exact matches.



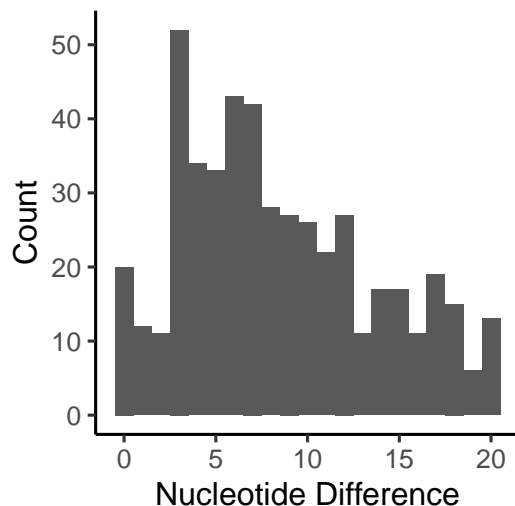
IGHV4-39*01_05

1869 sequences assigned
40 (2.1%) exact matches, in which:
25 unique CDR3
4 unique J



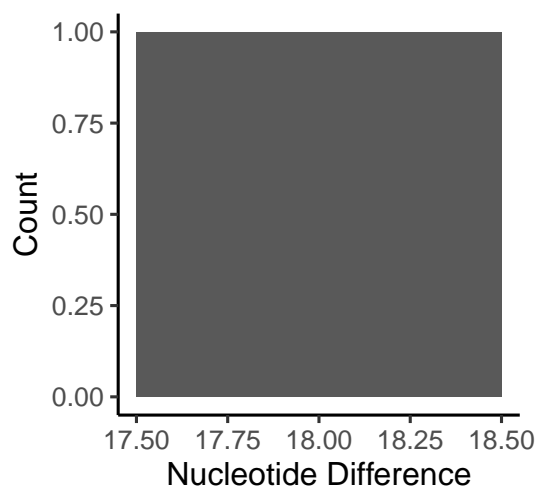
IGHV4-61*01

554 sequences assigned
20 (3.6%) exact matches, in which:
11 unique CDR3
3 unique J



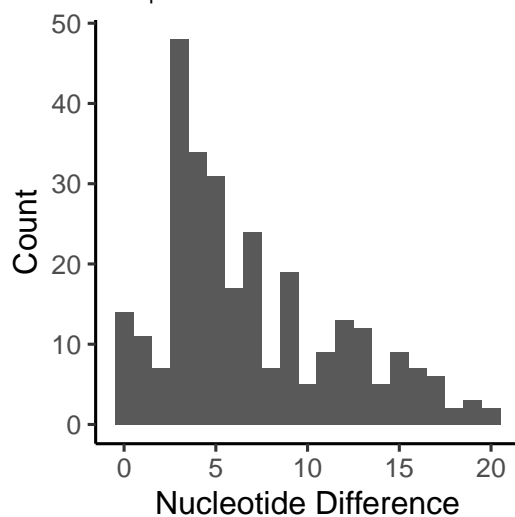
IGHV4-55*07

1 sequences assigned
No exact matches.



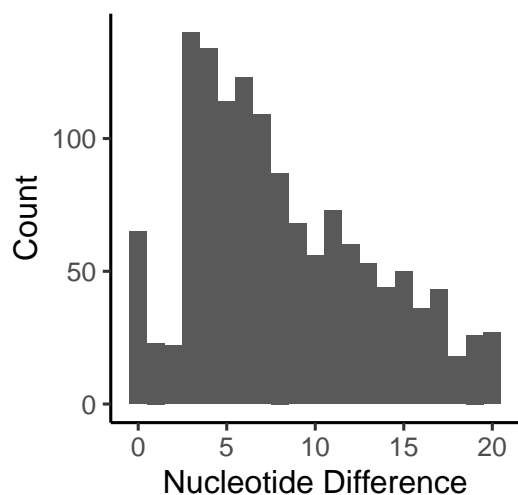
IGHV5-51*01_03

294 sequences assigned
14 (4.8%) exact matches, in which:
14 unique CDR3
4 unique J



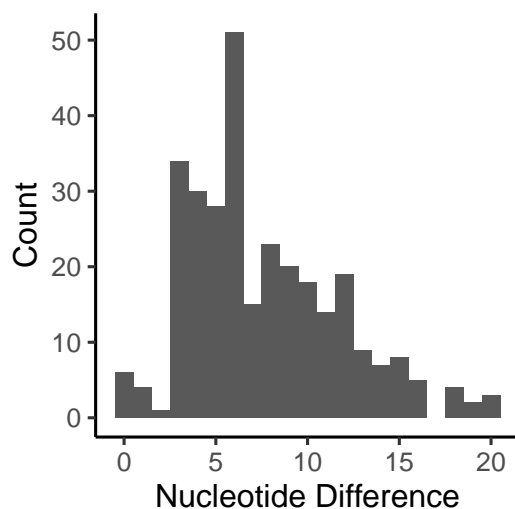
IGHV4-59*01_07

1524 sequences assigned
65 (4.3%) exact matches, in which:
44 unique CDR3
6 unique J



IGHV6-1*01_02

326 sequences assigned
6 (1.8%) exact matches, in which:
6 unique CDR3
2 unique J





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_C258G IGHV5-51*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.

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.