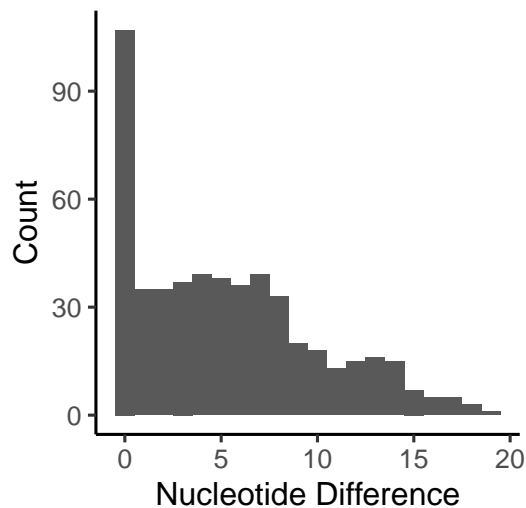


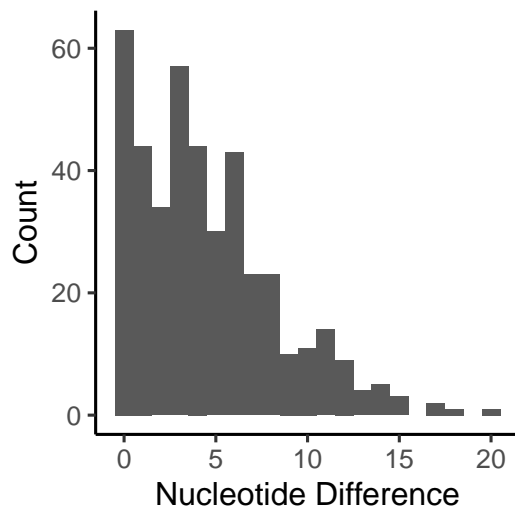
IGHV1-2*02

521 sequences assigned
107 (20.5%) exact matches, in which:
101 unique CDR3
5 unique J



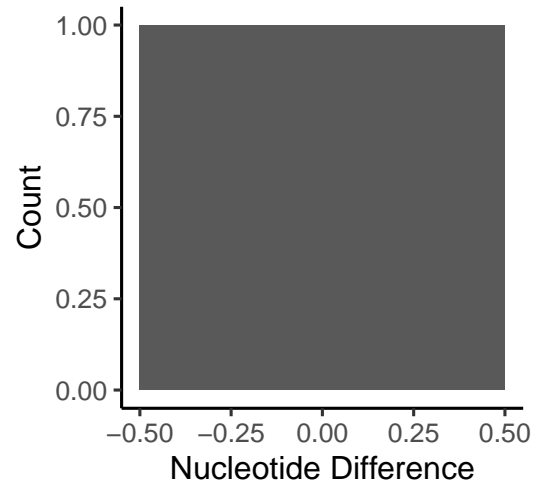
IGHV1-8*01

423 sequences assigned
63 (14.9%) exact matches, in which:
62 unique CDR3
4 unique J



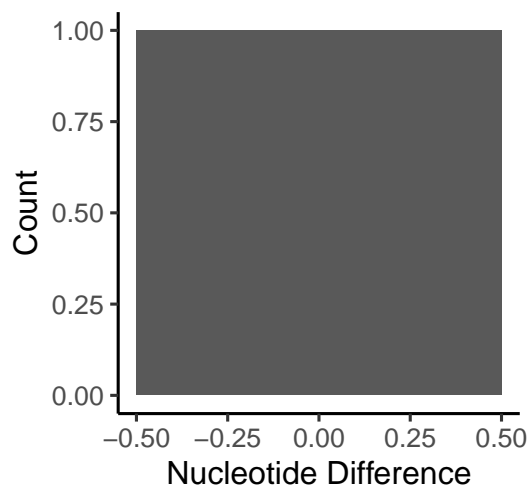
IGHV1-45*02

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



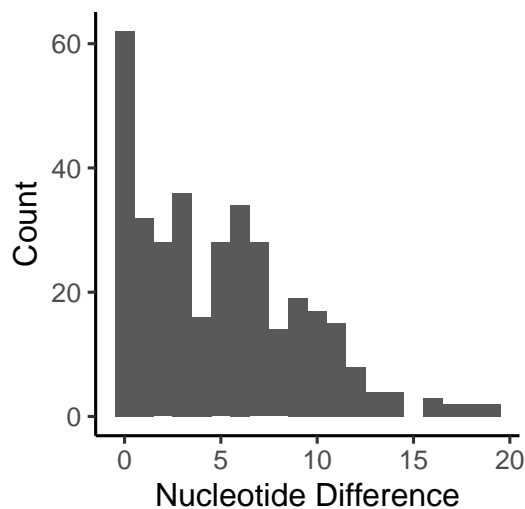
IGHV1-3*02

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



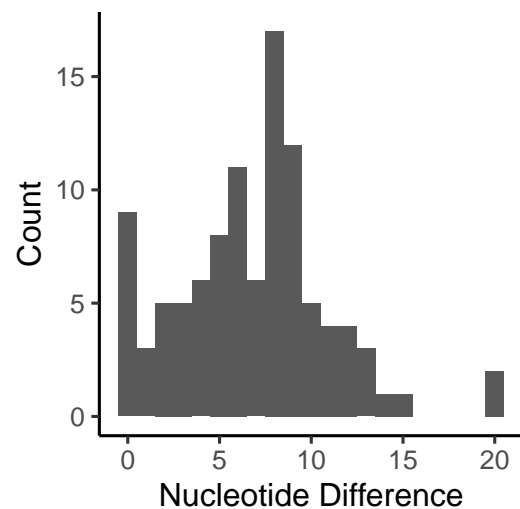
IGHV1-18*01

357 sequences assigned
62 (17.4%) exact matches, in which:
57 unique CDR3
6 unique J



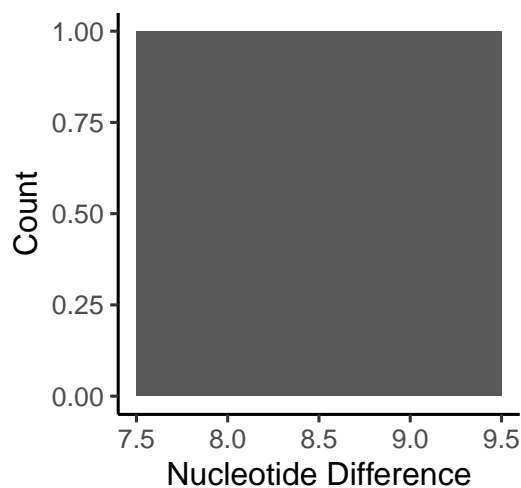
IGHV1-46*01

102 sequences assigned
9 (8.8%) exact matches, in which:
9 unique CDR3
3 unique J



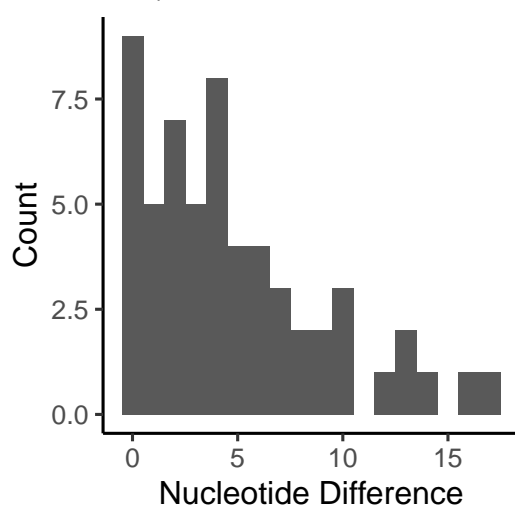
IGHV1-3*01_05

2 sequences assigned
No exact matches.



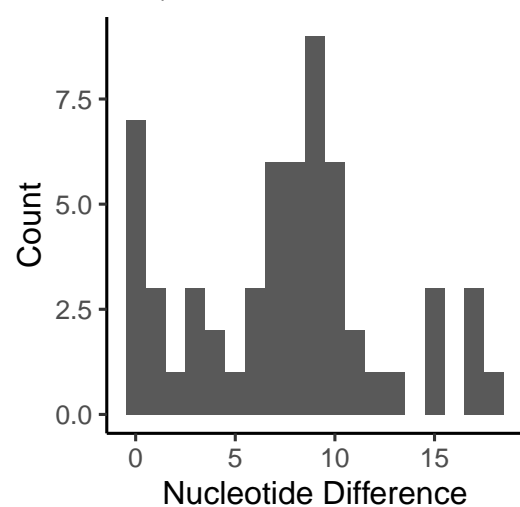
IGHV1-24*01

58 sequences assigned
9 (15.5%) exact matches, in which:
9 unique CDR3
3 unique J



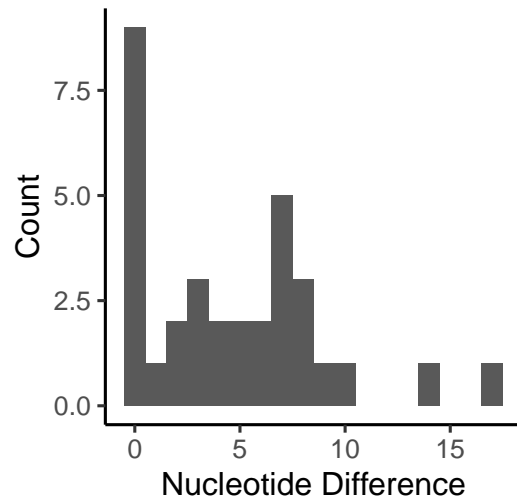
IGHV1-46*03

58 sequences assigned
7 (12.1%) exact matches, in which:
7 unique CDR3
4 unique J



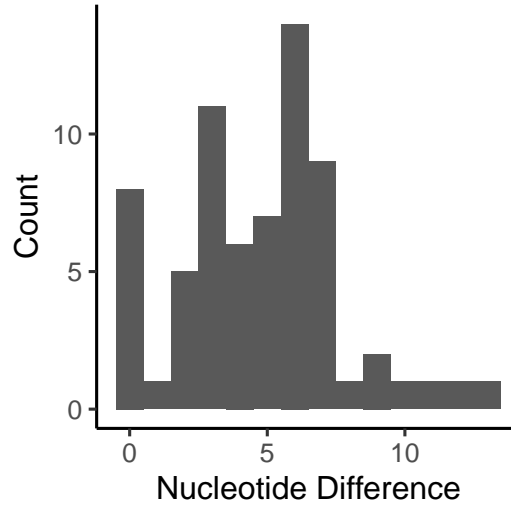
IGHV1-58*01_03

33 sequences assigned
9 (27.3%) exact matches, in which:
9 unique CDR3
3 unique J



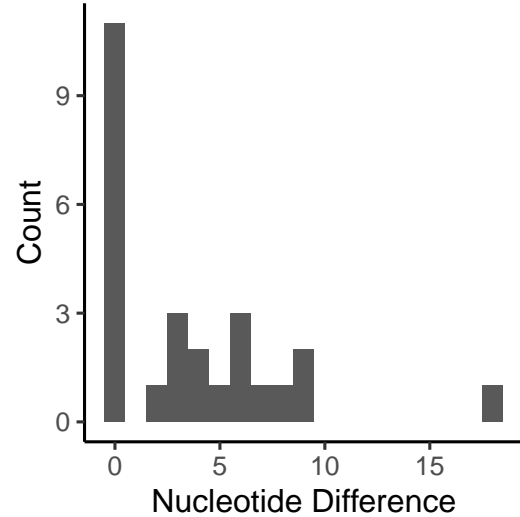
IGHV2-5*01

68 sequences assigned
8 (11.8%) exact matches, in which:
8 unique CDR3
3 unique J



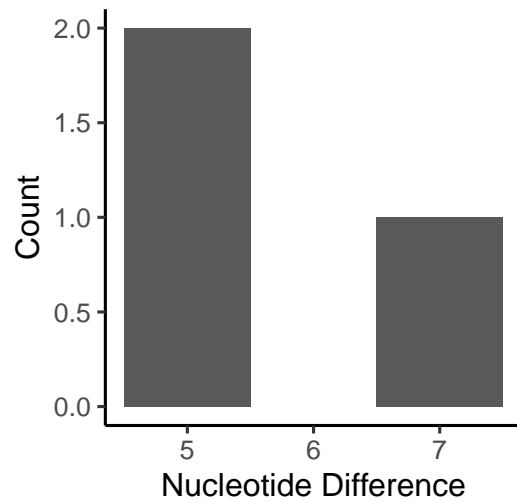
IGHV2-70*01

26 sequences assigned
11 (42.3%) exact matches, in which:
10 unique CDR3
3 unique J



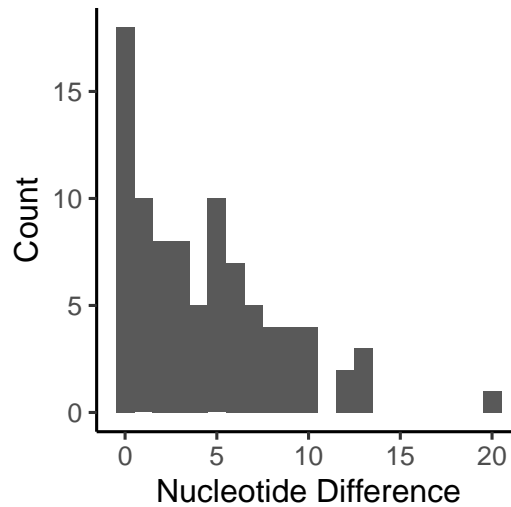
IGHV1-69-2*01

3 sequences assigned
No exact matches.



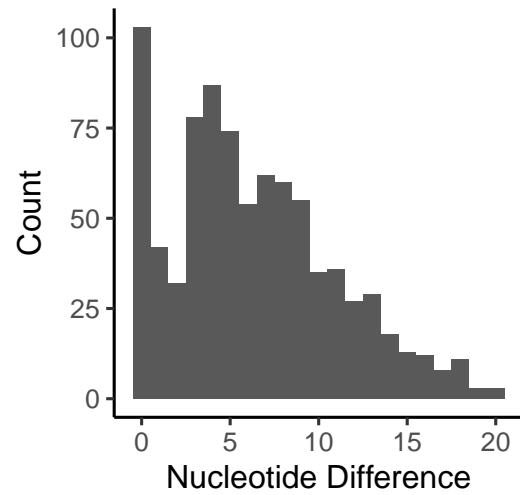
IGHV2-5*02

91 sequences assigned
18 (19.8%) exact matches, in which:
16 unique CDR3
3 unique J



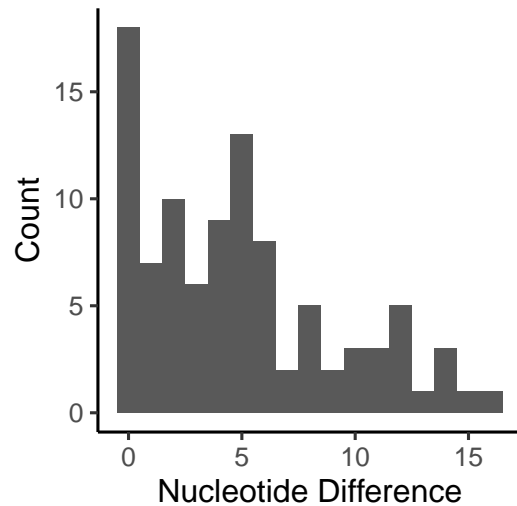
IGHV3-7*01

847 sequences assigned
103 (12.2%) exact matches, in which:
73 unique CDR3
6 unique J



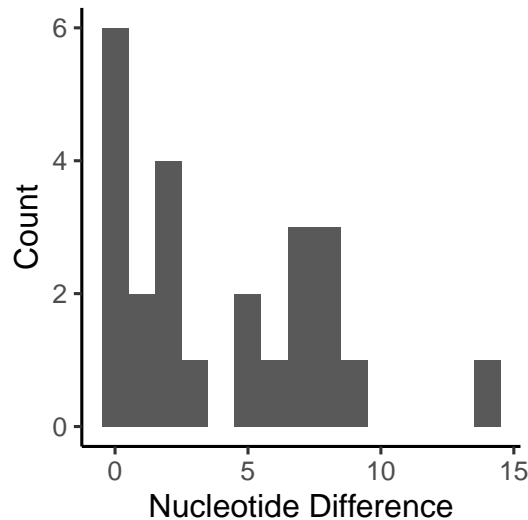
IGHV1-69*06_14

98 sequences assigned
18 (18.4%) exact matches, in which:
18 unique CDR3
4 unique J



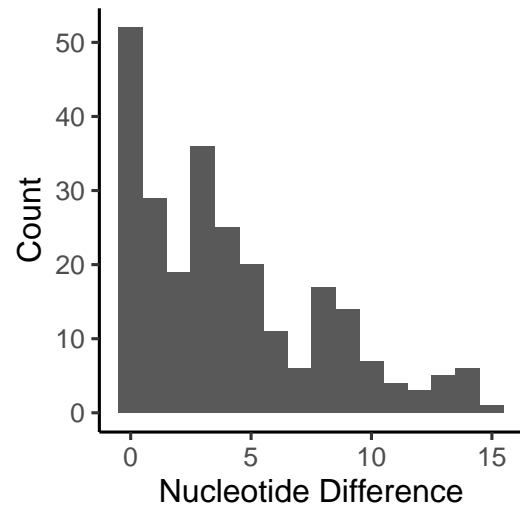
IGHV2-26*01

24 sequences assigned
6 (25%) exact matches, in which:
6 unique CDR3
3 unique J



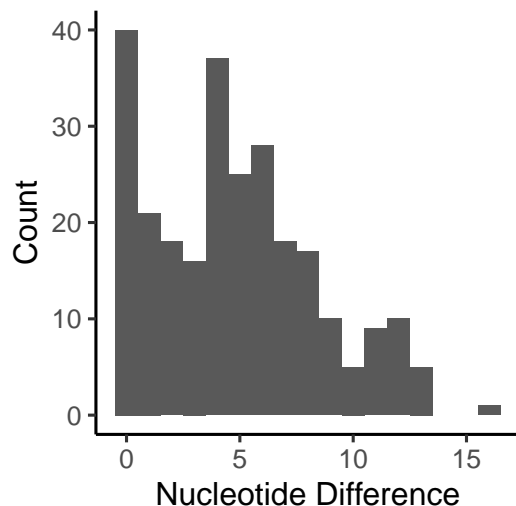
IGHV3-9*01

255 sequences assigned
52 (20.4%) exact matches, in which:
43 unique CDR3
4 unique J



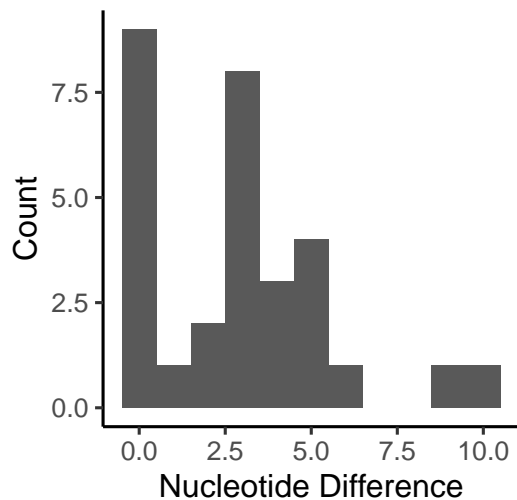
IGHV3-11*01

261 sequences assigned
40 (15.3%) exact matches, in which:
33 unique CDR3
6 unique J



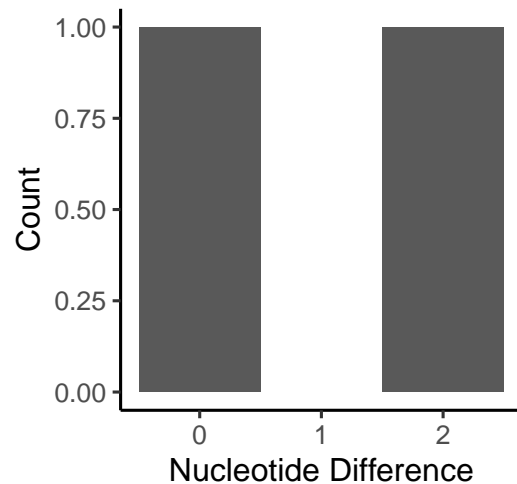
IGHV3-20*01_02

30 sequences assigned
9 (30%) exact matches, in which:
6 unique CDR3
3 unique J



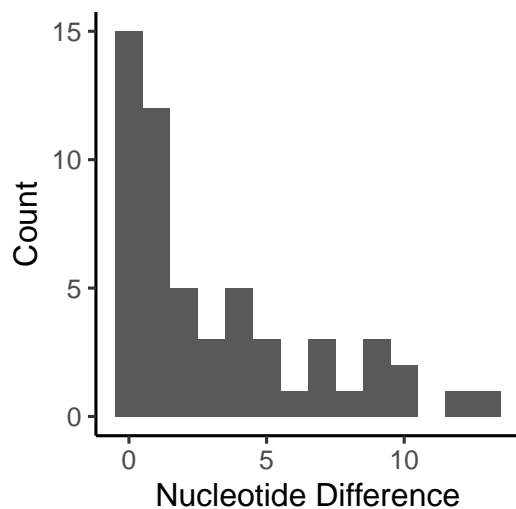
IGHV3-30-3*01

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



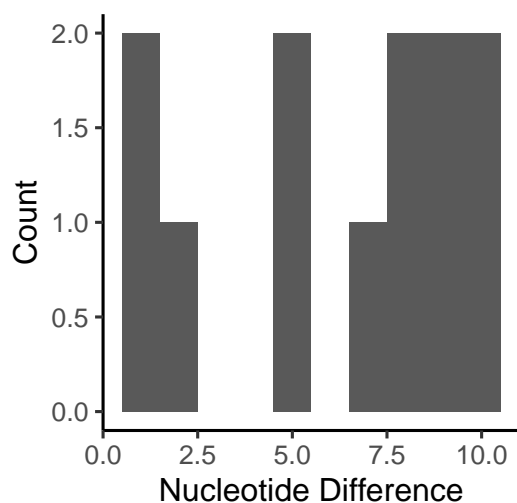
IGHV3-13*01

55 sequences assigned
15 (27.3%) exact matches, in which:
11 unique CDR3
5 unique J



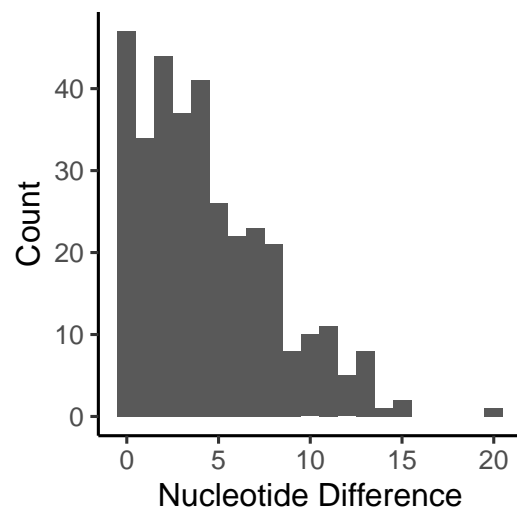
IGHV3-20*03_04

12 sequences assigned
No exact matches.



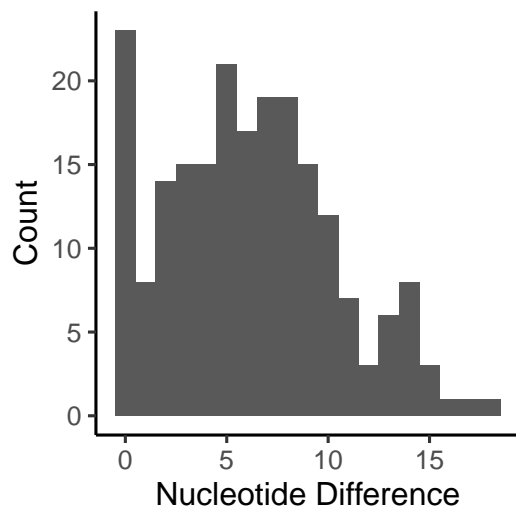
IGHV3-30*03

344 sequences assigned
47 (13.7%) exact matches, in which:
33 unique CDR3
4 unique J



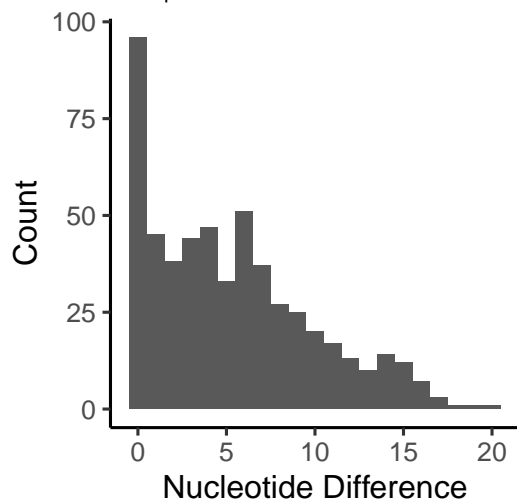
IGHV3-15*01_02

209 sequences assigned
23 (11%) exact matches, in which:
15 unique CDR3
3 unique J



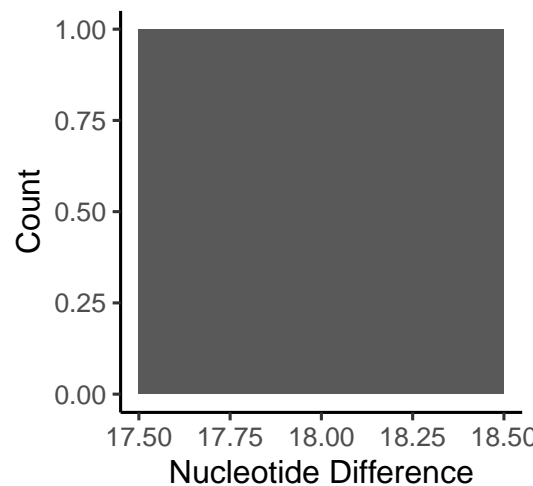
IGHV3-21*01_02

543 sequences assigned
96 (17.7%) exact matches, in which:
76 unique CDR3
6 unique J



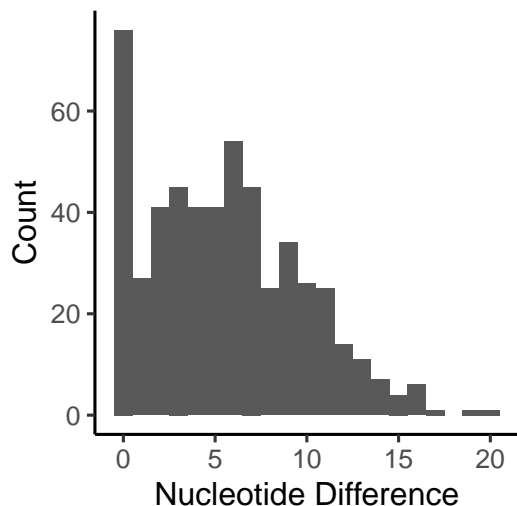
IGHV3-30-3*03

1 sequences assigned
No exact matches.



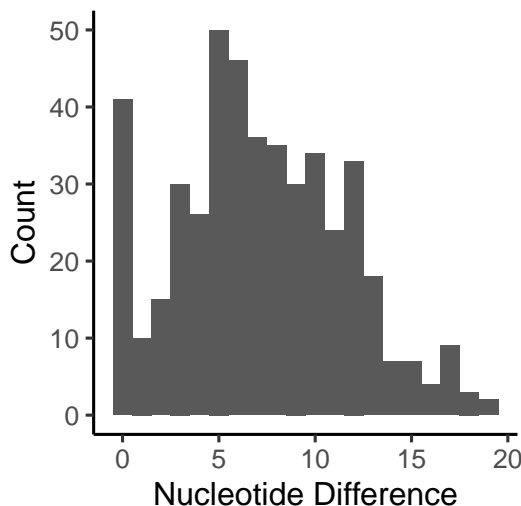
IGHV3-33*01

525 sequences assigned
76 (14.5%) exact matches, in which:
58 unique CDR3
5 unique J



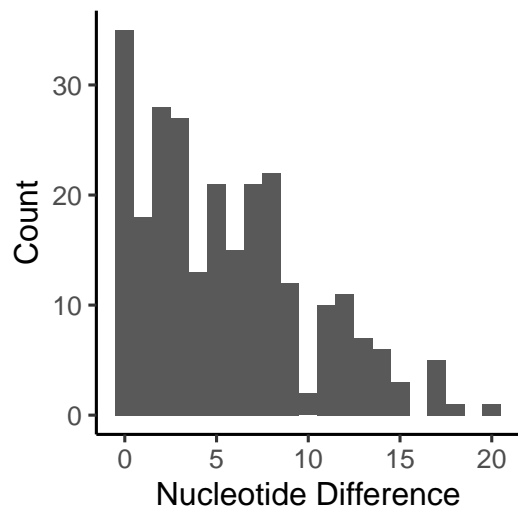
IGHV3-48*02

463 sequences assigned
41 (8.9%) exact matches, in which:
30 unique CDR3
4 unique J



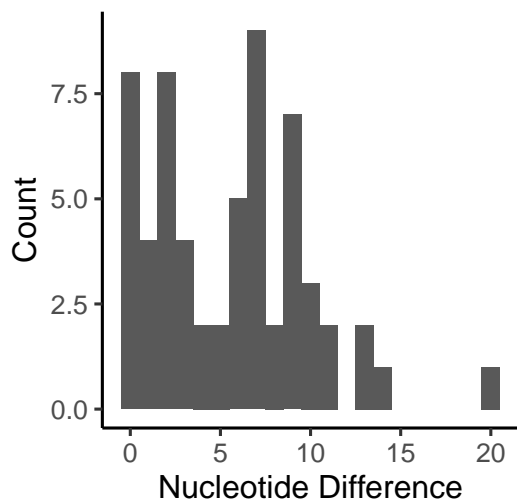
IGHV3-53*01_02

259 sequences assigned
35 (13.5%) exact matches, in which:
30 unique CDR3
5 unique J



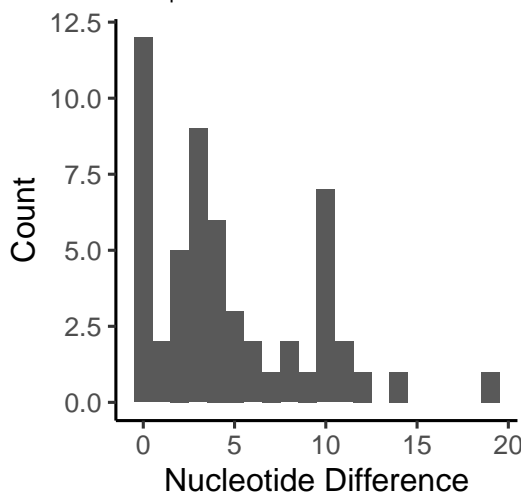
IGHV3-43*01

60 sequences assigned
8 (13.3%) exact matches, in which:
7 unique CDR3
3 unique J



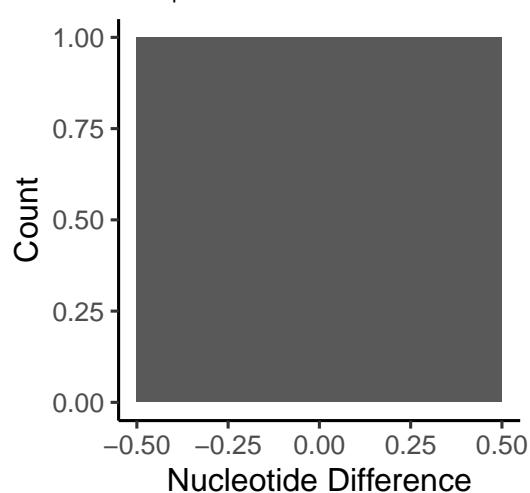
IGHV3-49*03_05

57 sequences assigned
12 (21.1%) exact matches, in which:
10 unique CDR3
3 unique J



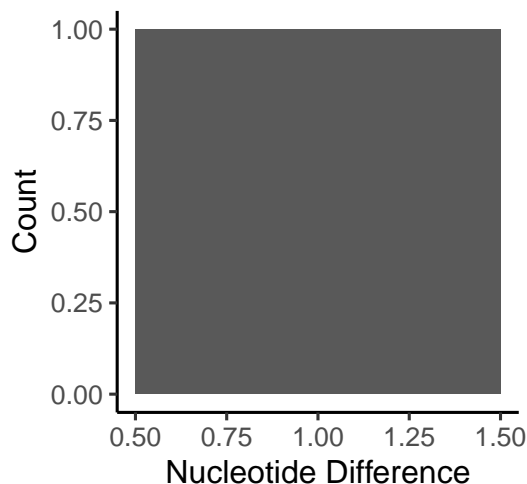
IGHV3-64*02_07

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



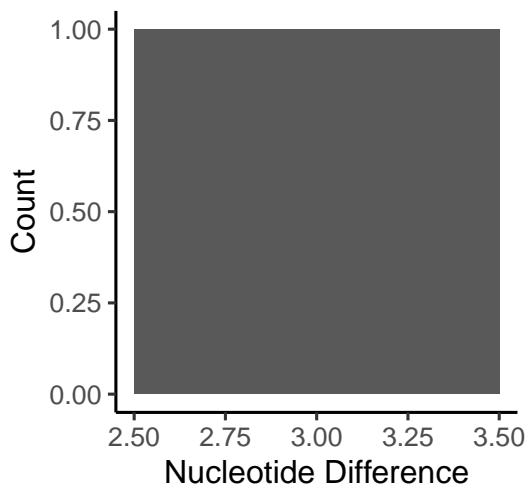
IGHV3-47*02

1 sequences assigned
No exact matches.



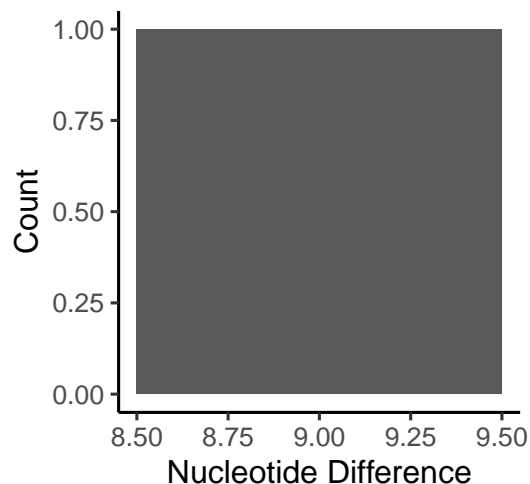
IGHV3-52*01_03

1 sequences assigned
No exact matches.



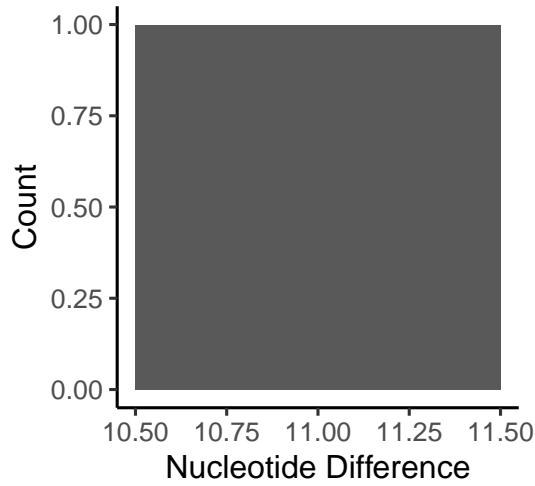
IGHV3-66*01

2 sequences assigned
No exact matches.



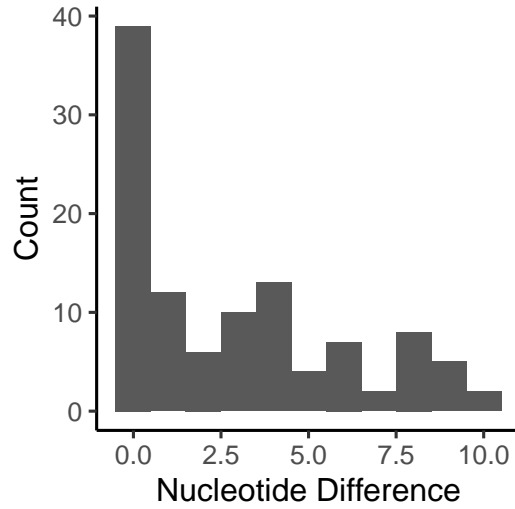
IGHV3-69-1*01

1 sequences assigned
No exact matches.



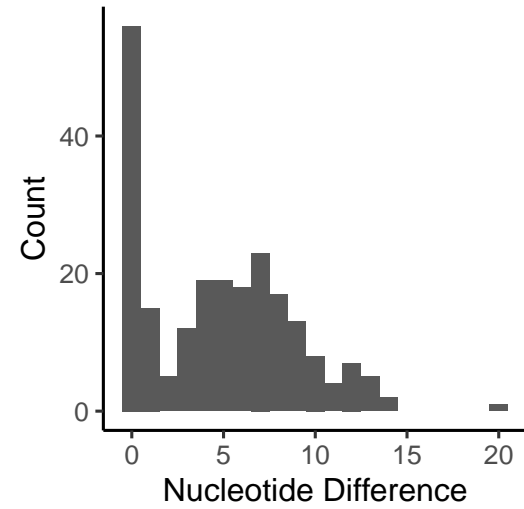
IGHV3-73*01_02

108 sequences assigned
39 (36.1%) exact matches, in which:
24 unique CDR3
4 unique J



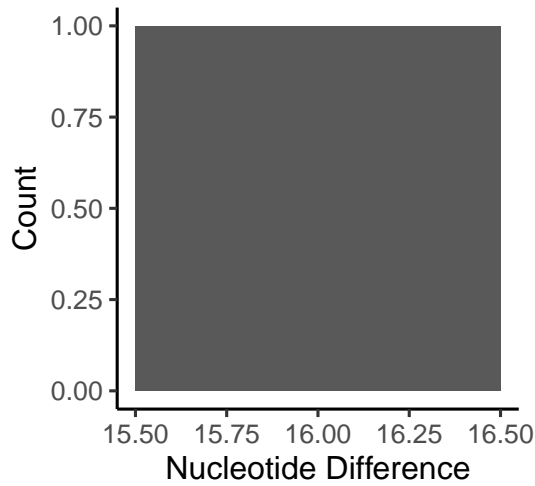
IGHV4-4*07

224 sequences assigned
56 (25%) exact matches, in which:
36 unique CDR3
4 unique J



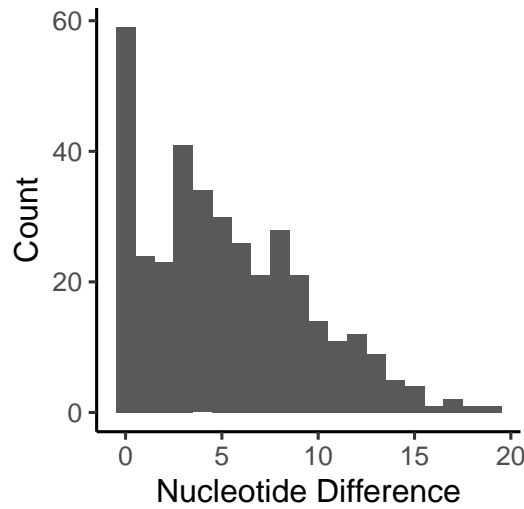
IGHV3-69-1*02

1 sequences assigned
No exact matches.



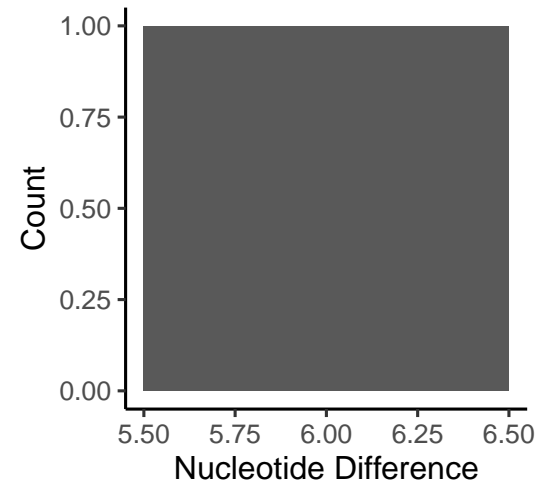
IGHV3-74*01_02

369 sequences assigned
59 (16%) exact matches, in which:
39 unique CDR3
4 unique J



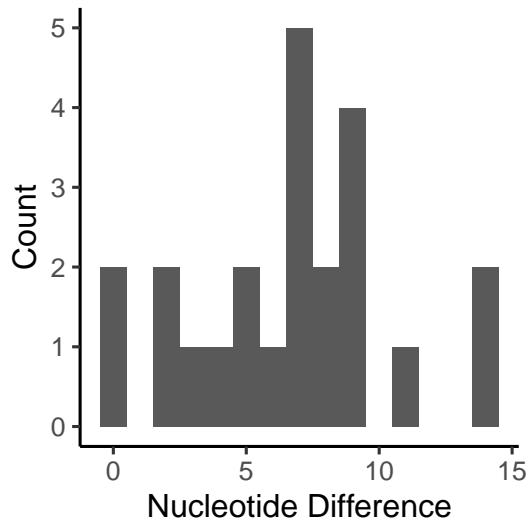
IGHV4-30-4*01

1 sequences assigned
No exact matches.



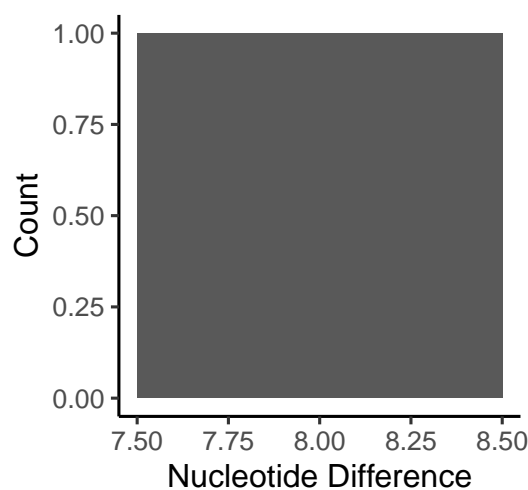
IGHV3-72*01

23 sequences assigned
2 (8.7%) exact matches, in which:
1 unique CDR3
1 unique J



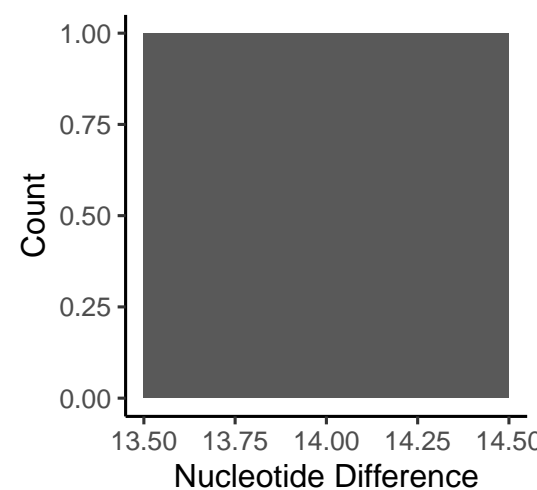
IGHV3-64D*09

2 sequences assigned
No exact matches.



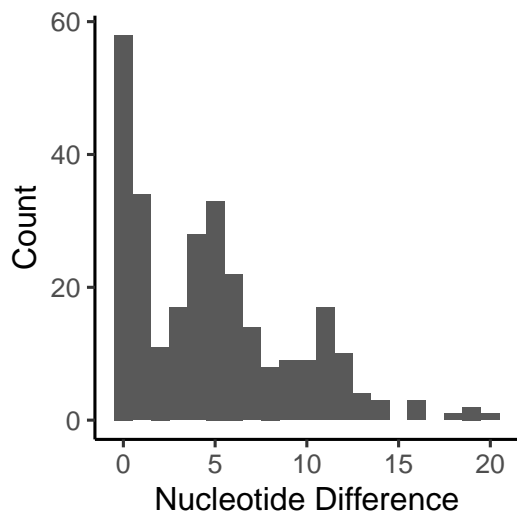
IGHV4-30-2*01

2 sequences assigned
No exact matches.



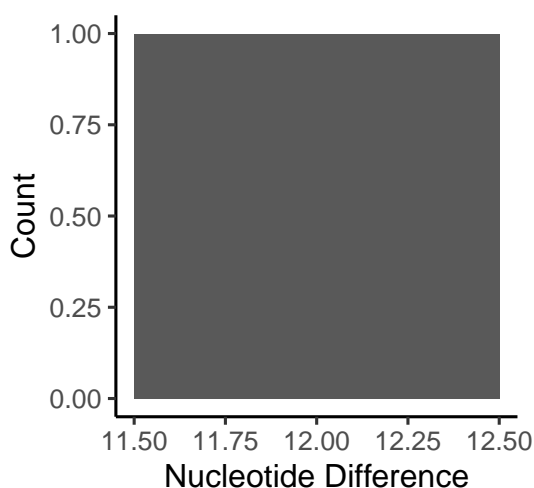
IGHV4-31*03_04

285 sequences assigned
58 (20.4%) exact matches, in which:
44 unique CDR3
5 unique J



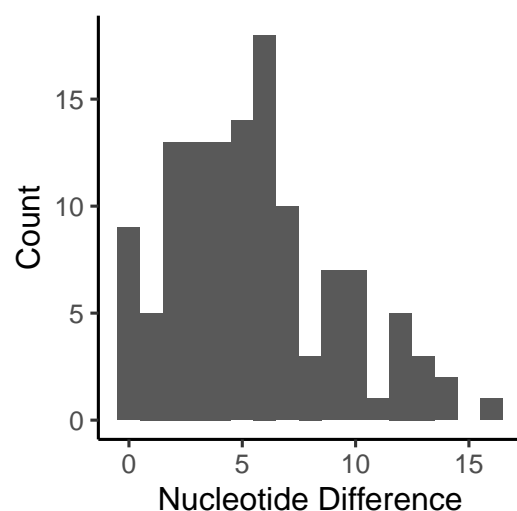
IGHV4-55*09

1 sequences assigned
No exact matches.



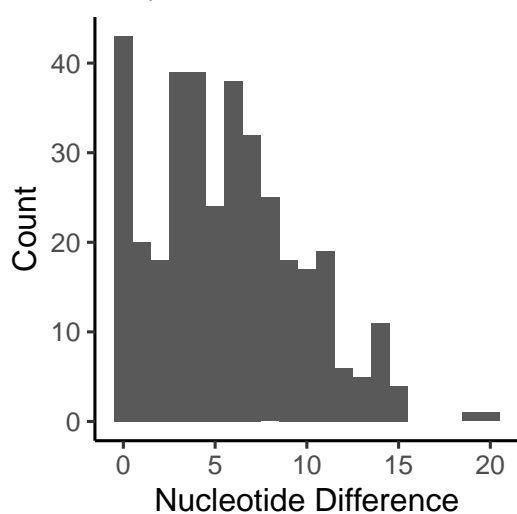
IGHV4-61*01

125 sequences assigned
9 (7.2%) exact matches, in which:
7 unique CDR3
4 unique J



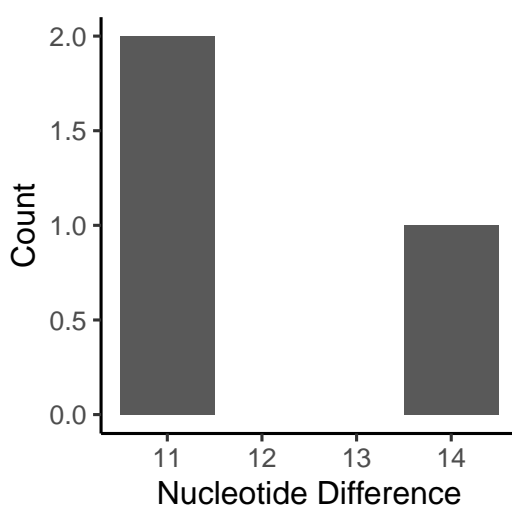
IGHV4-34*01_02

364 sequences assigned
43 (11.8%) exact matches, in which:
38 unique CDR3
4 unique J



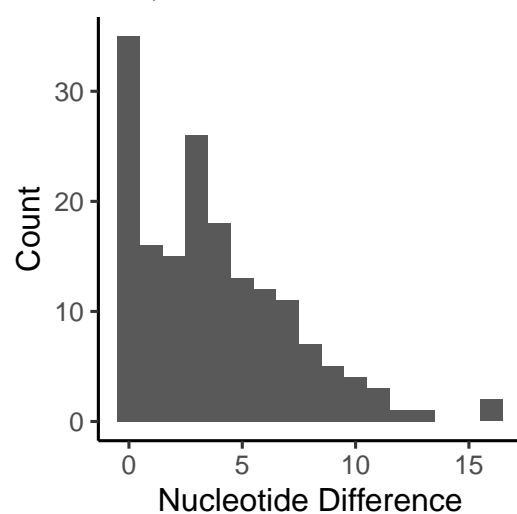
IGHV4-55*02_04_08

5 sequences assigned
No exact matches.



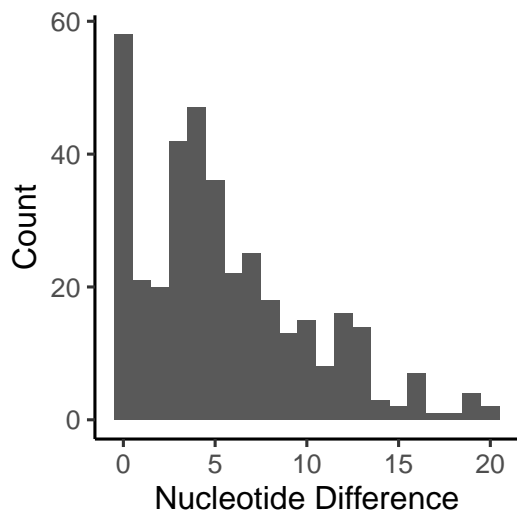
IGHV5-51*01_03

169 sequences assigned
35 (20.7%) exact matches, in which:
33 unique CDR3
5 unique J



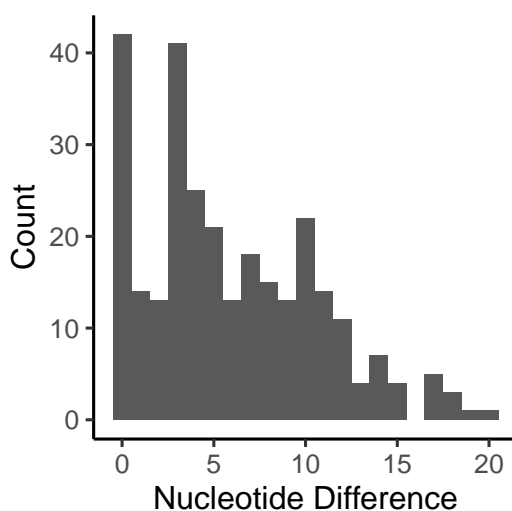
IGHV4-39*01_05

383 sequences assigned
58 (15.1%) exact matches, in which:
41 unique CDR3
5 unique J



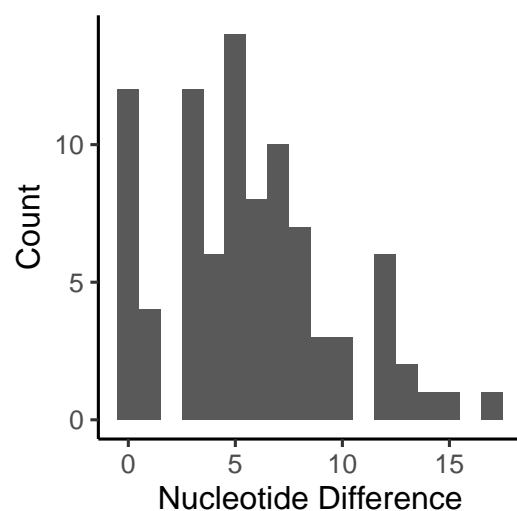
IGHV4-59*01_07

289 sequences assigned
42 (14.5%) exact matches, in which:
35 unique CDR3
6 unique J



IGHV6-1*01_02

90 sequences assigned
12 (13.3%) exact matches, in which:
12 unique CDR3
5 unique J





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) 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.

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.