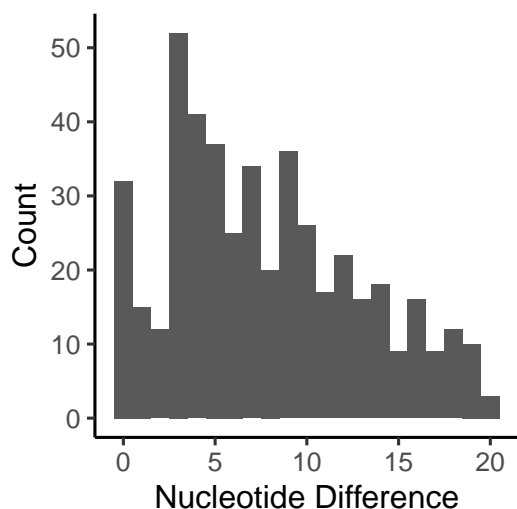


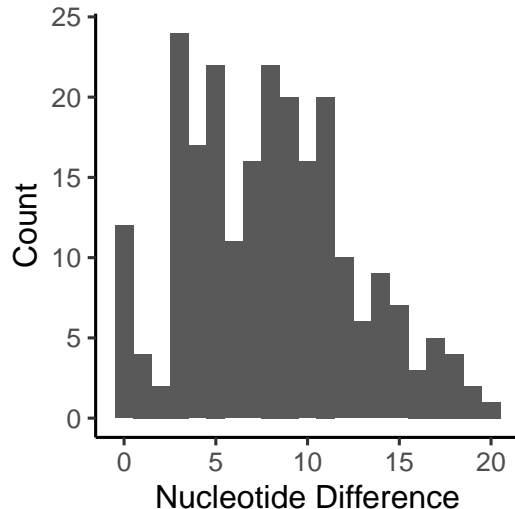
IGHV1-2*02

488 sequences assigned
32 (6.6%) exact matches, in which:
29 unique CDR3
5 unique J



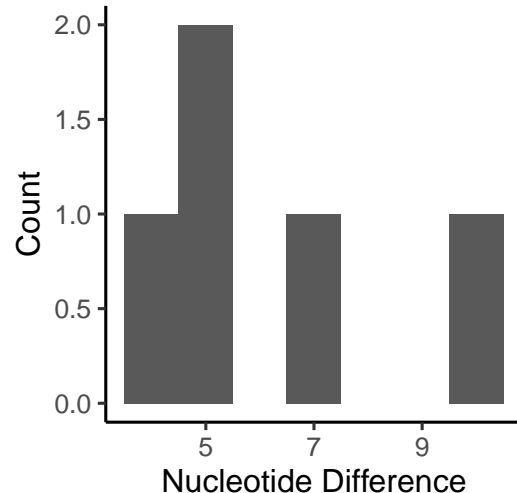
IGHV1-18*01

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



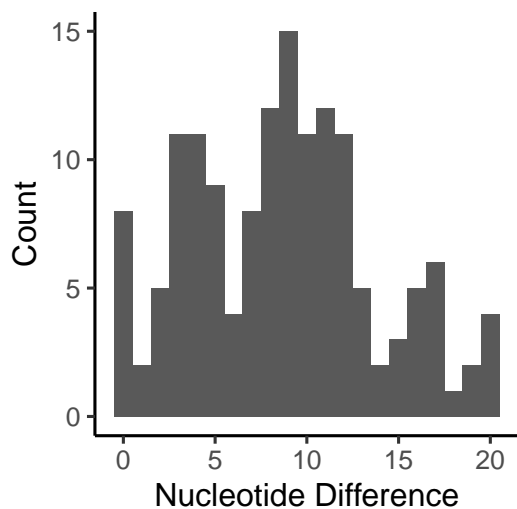
IGHV1-45*02

5 sequences assigned
No exact matches.



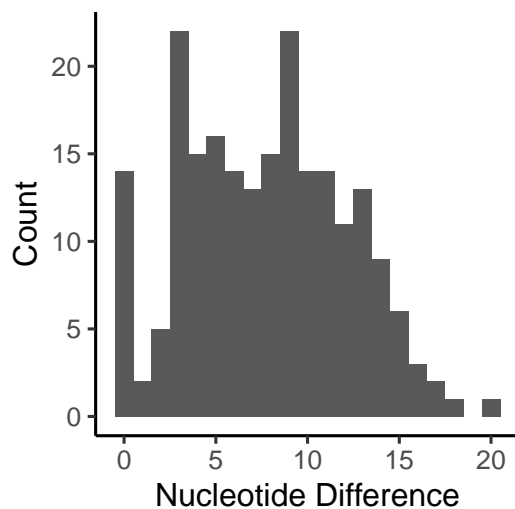
IGHV1-3*01_05

147 sequences assigned
8 (5.4%) exact matches, in which:
8 unique CDR3
4 unique J



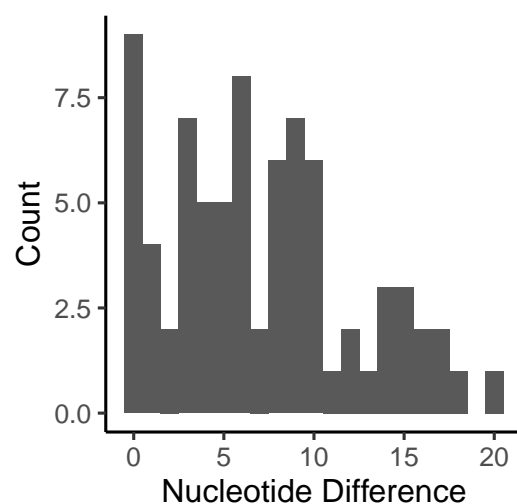
IGHV1-18*04

219 sequences assigned
14 (6.4%) exact matches, in which:
13 unique CDR3
4 unique J



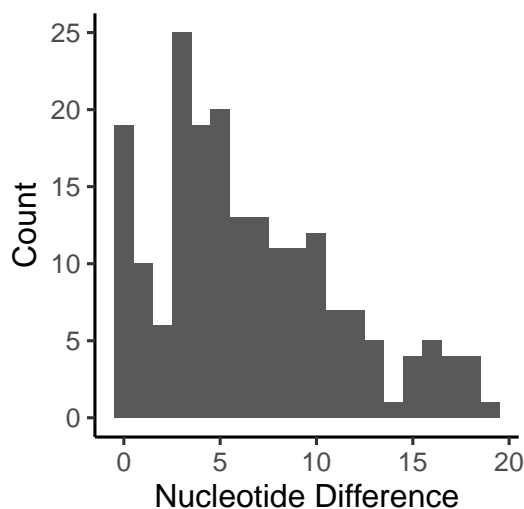
IGHV1-46*01

80 sequences assigned
9 (11.2%) exact matches, in which:
9 unique CDR3
2 unique J



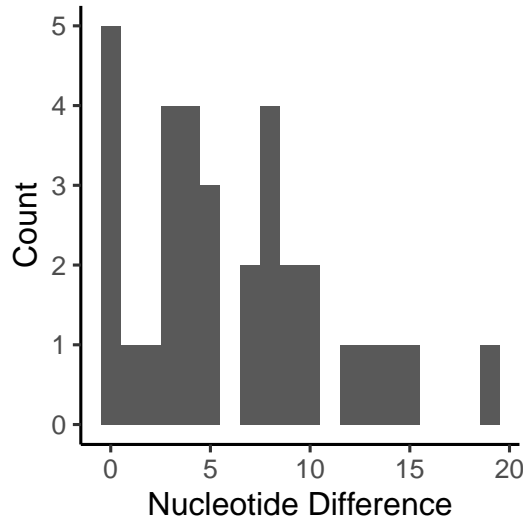
IGHV1-8*01

201 sequences assigned
19 (9.5%) exact matches, in which:
19 unique CDR3
4 unique J



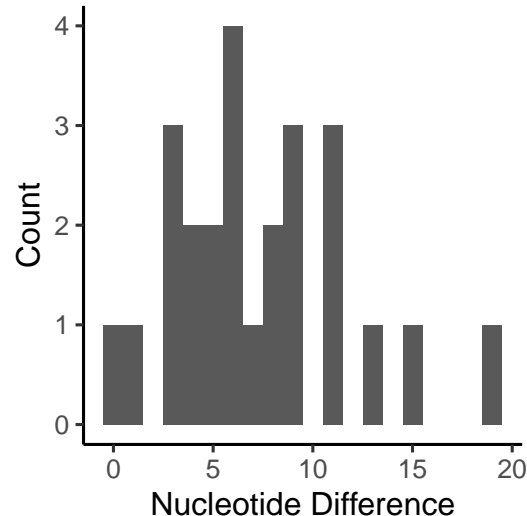
IGHV1-24*01

33 sequences assigned
5 (15.2%) exact matches, in which:
5 unique CDR3
2 unique J



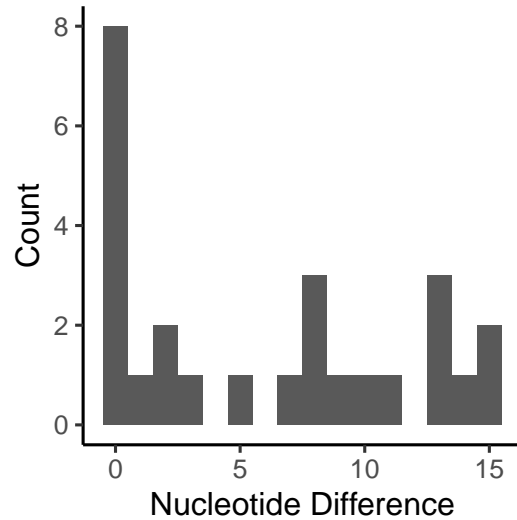
IGHV1-46*03

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



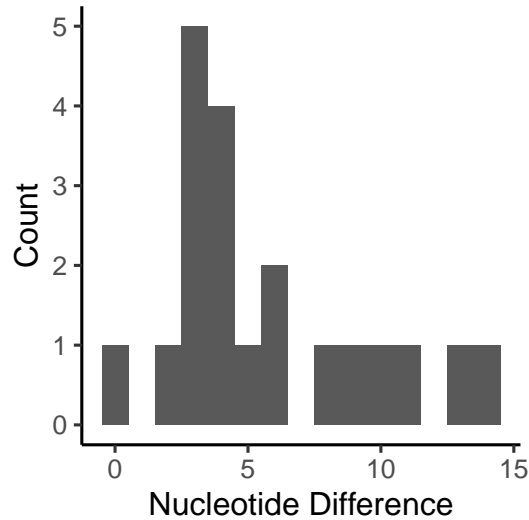
IGHV1-58*01_03

26 sequences assigned
8 (30.8%) exact matches, in which:
7 unique CDR3
3 unique J



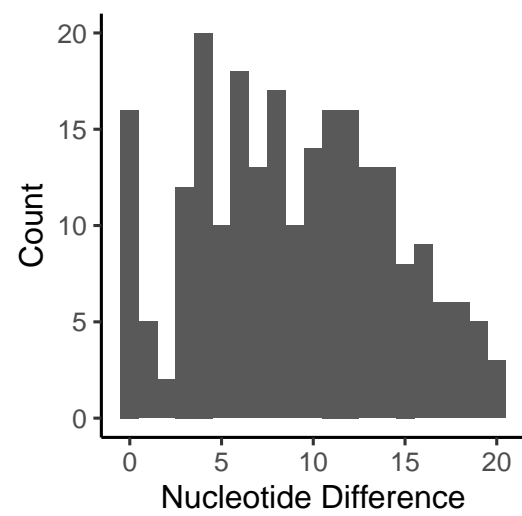
IGHV2-70*01

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



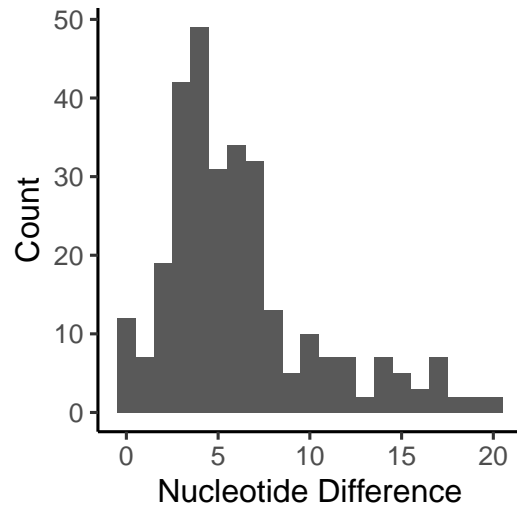
IGHV3-11*01

244 sequences assigned
16 (6.6%) exact matches, in which:
12 unique CDR3
4 unique J



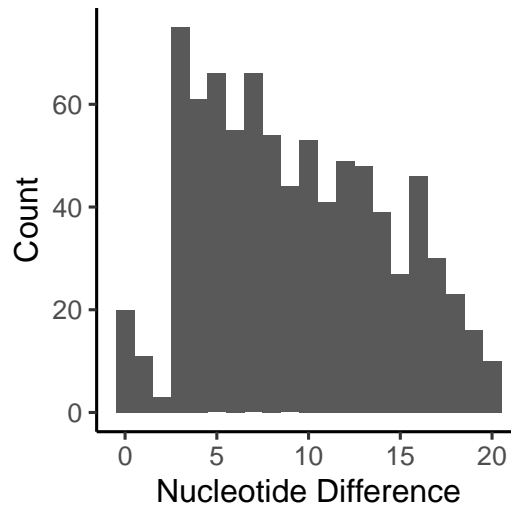
IGHV2-5*01

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



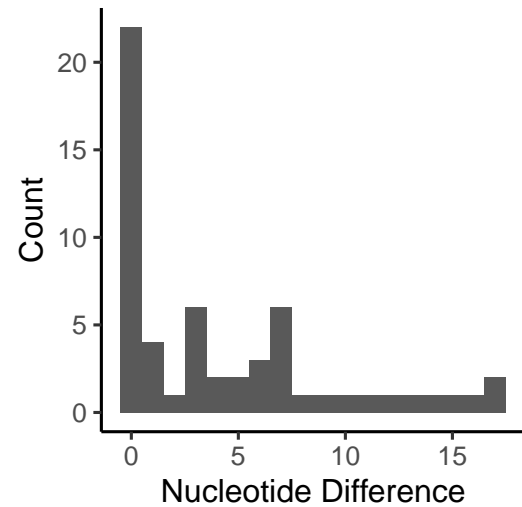
IGHV3-7*01

865 sequences assigned
20 (2.3%) exact matches, in which:
18 unique CDR3
4 unique J



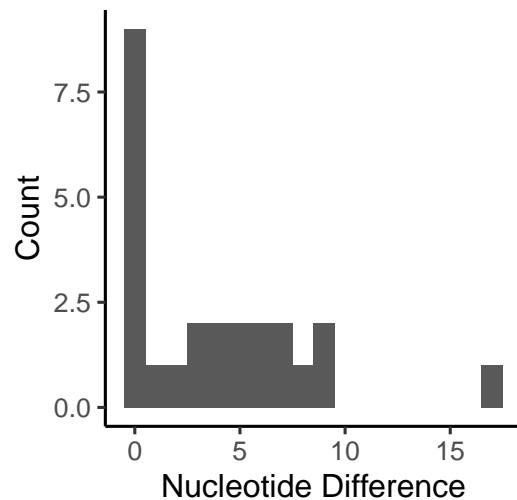
IGHV3-13*01

58 sequences assigned
22 (37.9%) exact matches, in which:
11 unique CDR3
2 unique J



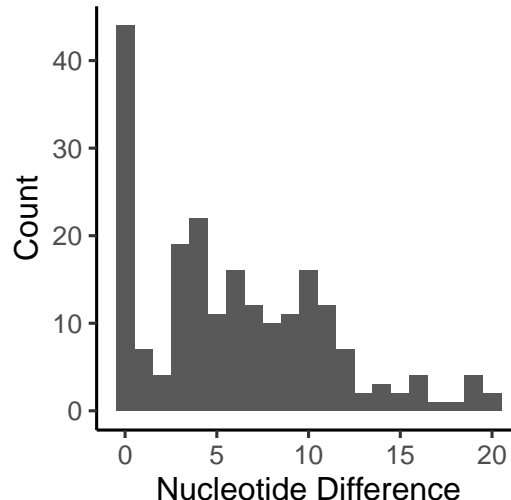
IGHV2-26*01

25 sequences assigned
9 (36%) exact matches, in which:
9 unique CDR3
4 unique J



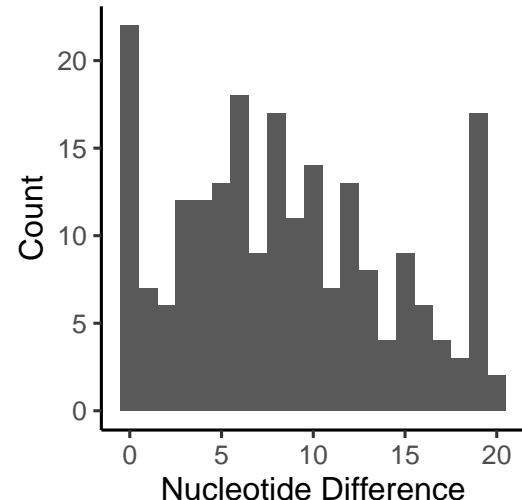
IGHV3-9*01

218 sequences assigned
44 (20.2%) exact matches, in which:
30 unique CDR3
4 unique J



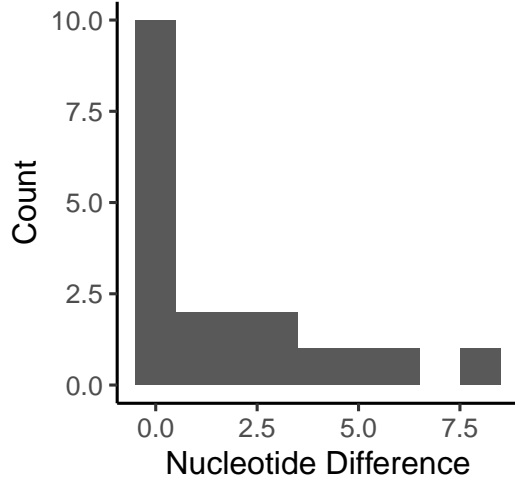
IGHV3-15*01_02

222 sequences assigned
22 (9.9%) exact matches, in which:
14 unique CDR3
3 unique J



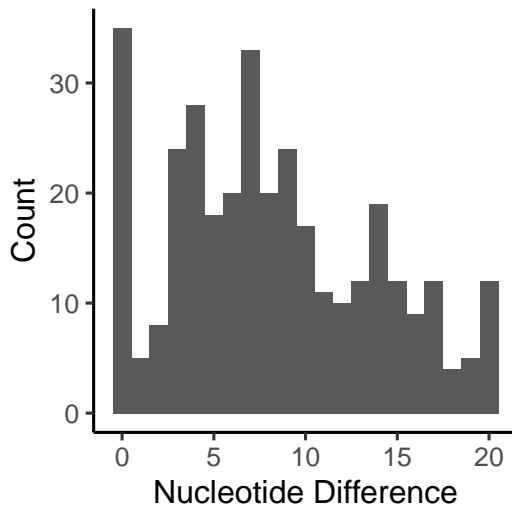
IGHV3-20*01_02

22 sequences assigned
10 (45.5%) exact matches, in which:
6 unique CDR3
3 unique J



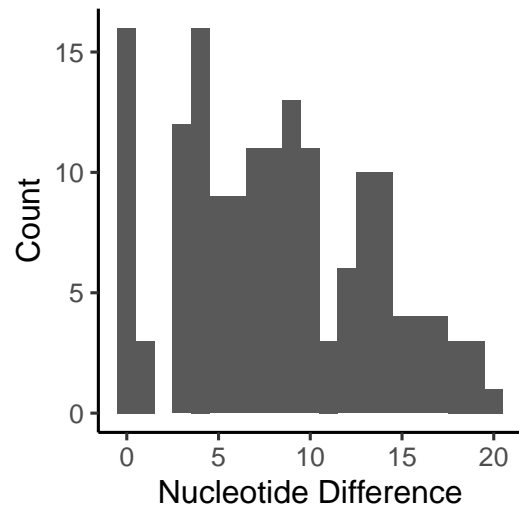
IGHV3-30-3*01

360 sequences assigned
35 (9.7%) exact matches, in which:
23 unique CDR3
4 unique J



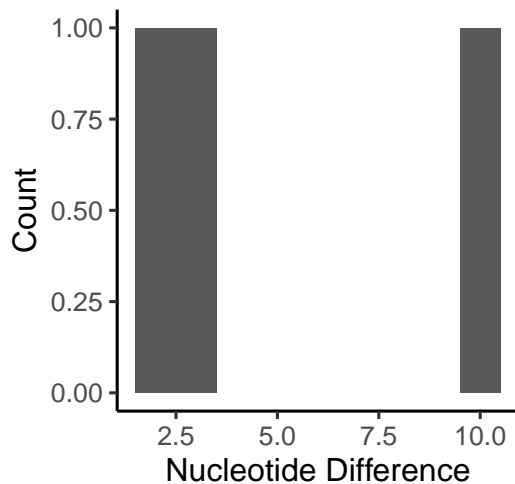
IGHV3-48*01

176 sequences assigned
16 (9.1%) exact matches, in which:
11 unique CDR3
2 unique J



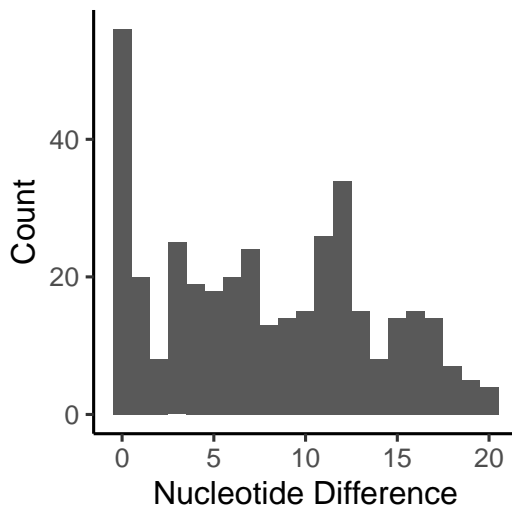
IGHV3-20*03_04

3 sequences assigned
No exact matches.



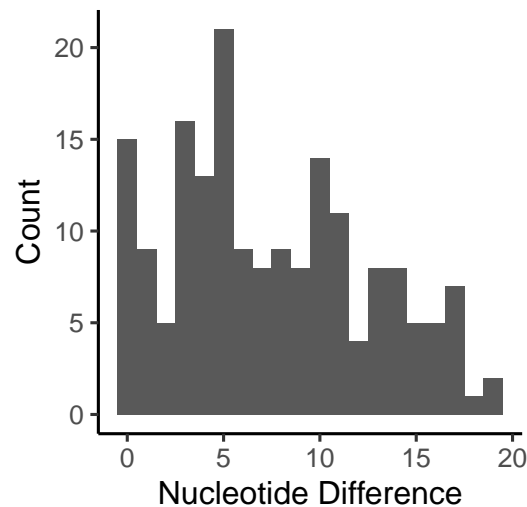
IGHV3-33*01

384 sequences assigned
56 (14.6%) exact matches, in which:
32 unique CDR3
5 unique J



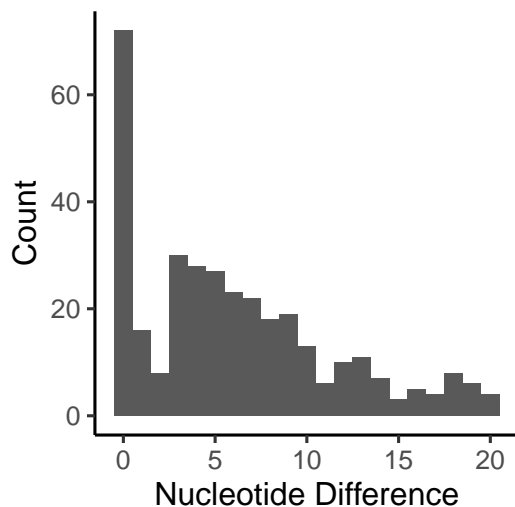
IGHV3-48*02

190 sequences assigned
15 (7.9%) exact matches, in which:
10 unique CDR3
4 unique J



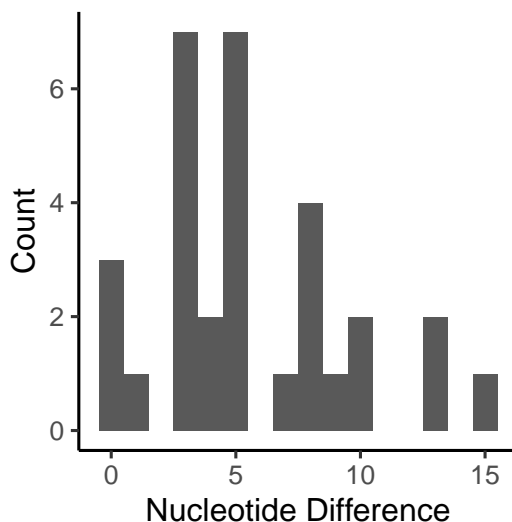
IGHV3-21*01_02

348 sequences assigned
72 (20.7%) exact matches, in which:
43 unique CDR3
4 unique J



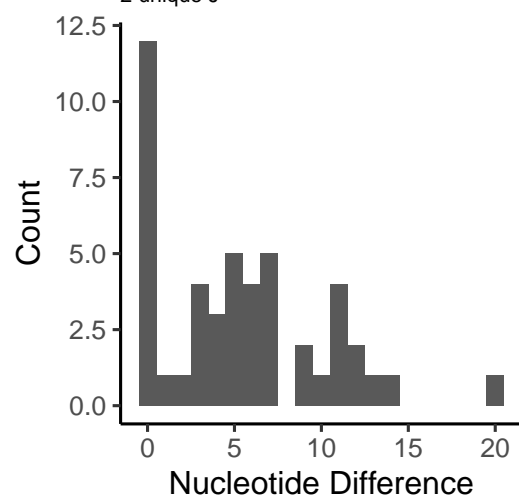
IGHV3-43*01

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



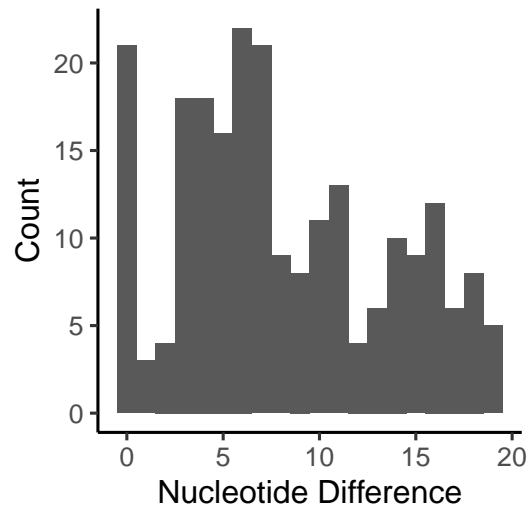
IGHV3-49*03_05

47 sequences assigned
12 (25.5%) exact matches, in which:
7 unique CDR3
2 unique J



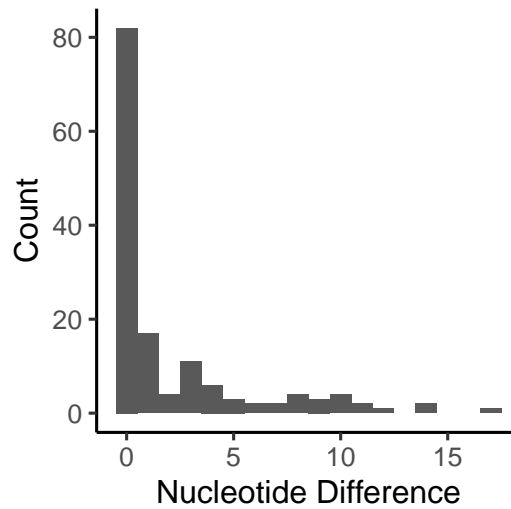
IGHV3-53*01_02

229 sequences assigned
21 (9.2%) exact matches, in which:
16 unique CDR3
5 unique J



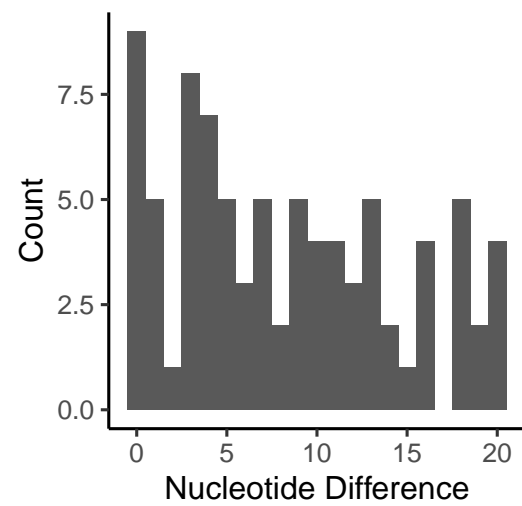
IGHV3-73*01_02

144 sequences assigned
82 (56.9%) exact matches, in which:
49 unique CDR3
4 unique J



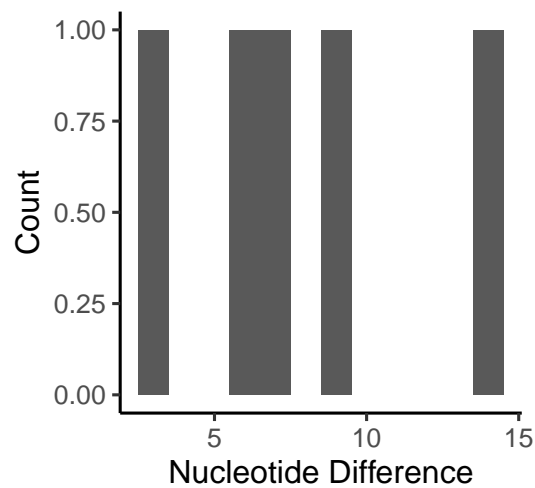
IGHV4-4*07

87 sequences assigned
9 (10.3%) exact matches, in which:
6 unique CDR3
3 unique J



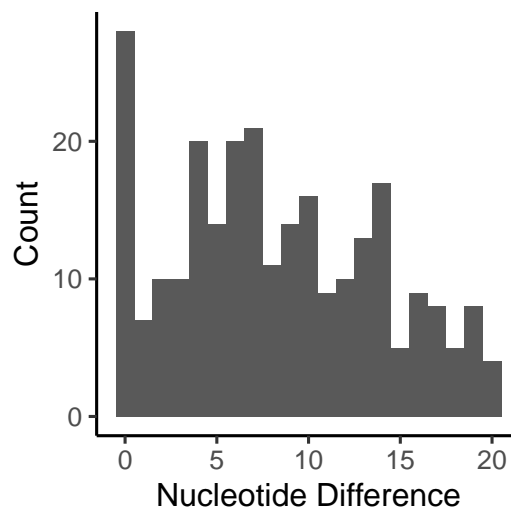
IGHV3-64*02_07

5 sequences assigned
No exact matches.



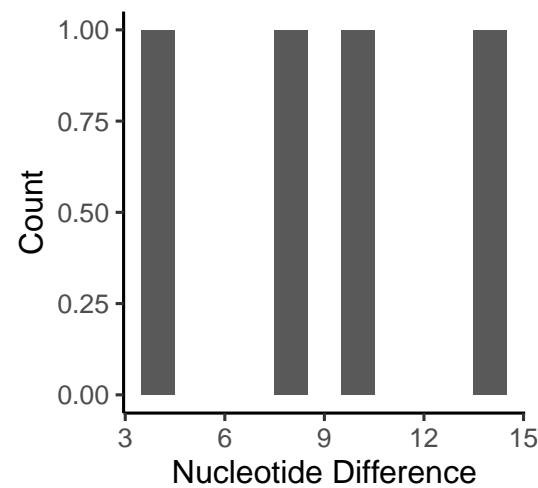
IGHV3-74*01_02

273 sequences assigned
28 (10.3%) exact matches, in which:
15 unique CDR3
4 unique J



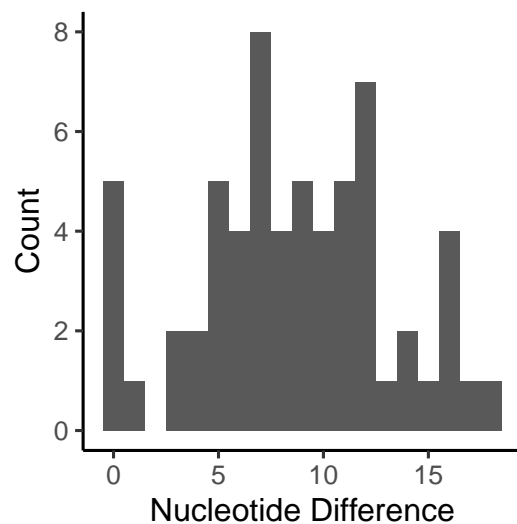
IGHV4-28*01_07

4 sequences assigned
No exact matches.



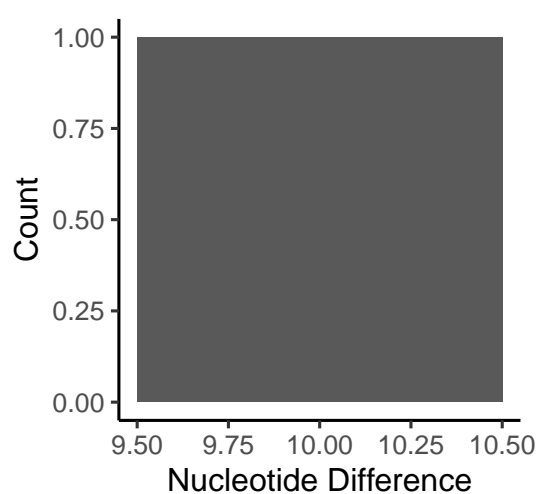
IGHV3-72*01

62 sequences assigned
5 (8.1%) exact matches, in which:
2 unique CDR3
2 unique J



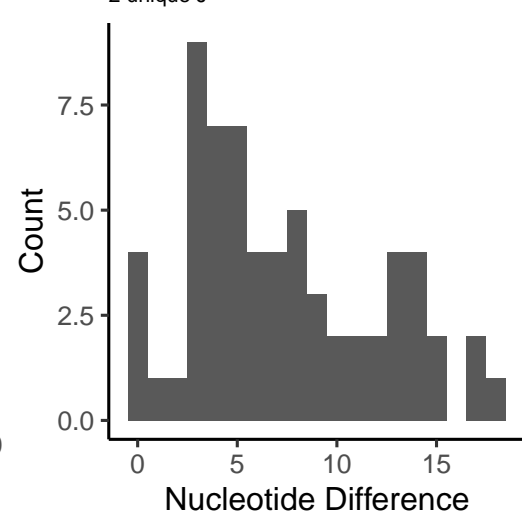
IGHV3-NL1*01

1 sequences assigned
No exact matches.



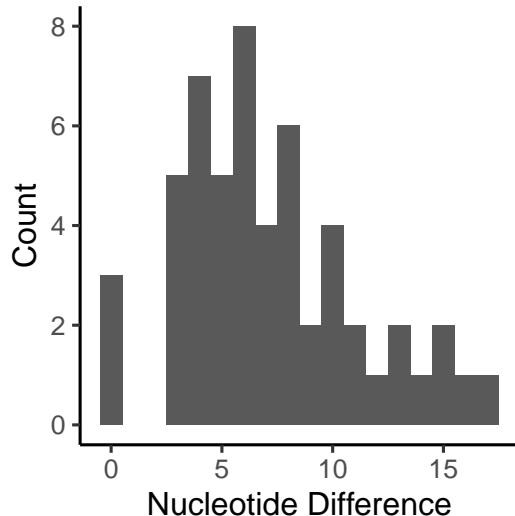
IGHV4-30-4*01

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



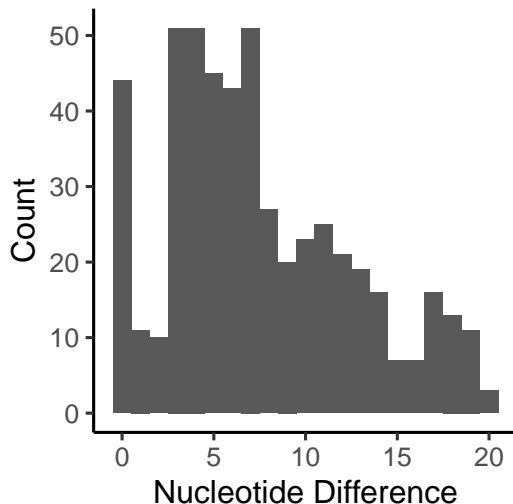
IGHV4-30-2*01

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



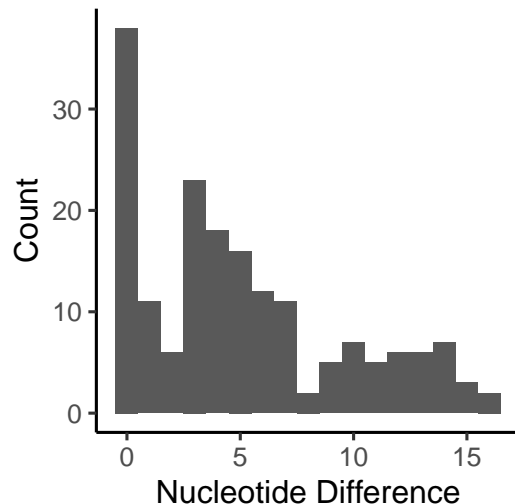
IGHV4-39*01_05

545 sequences assigned
44 (8.1%) exact matches, in which:
31 unique CDR3
4 unique J



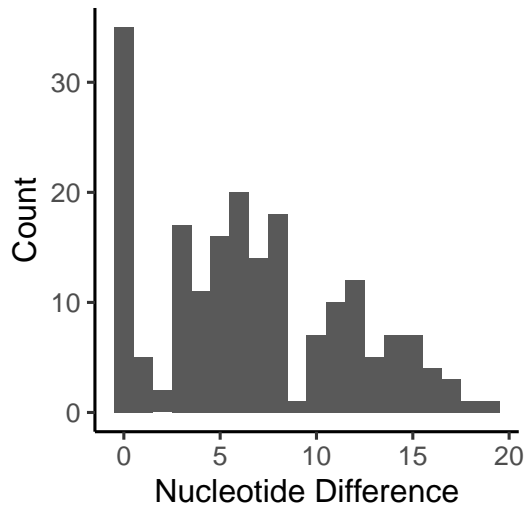
IGHV5-51*01_03

178 sequences assigned
38 (21.3%) exact matches, in which:
34 unique CDR3
4 unique J



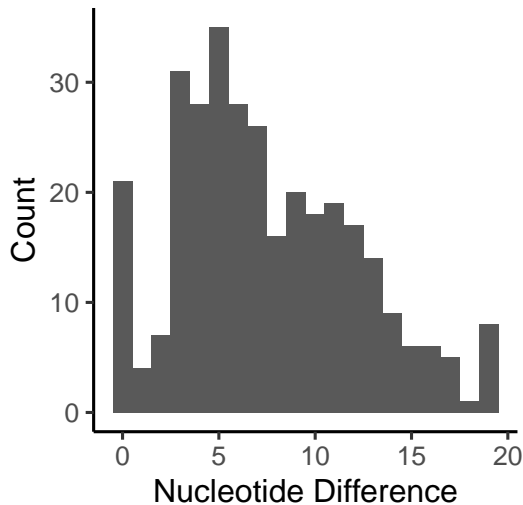
IGHV4-31*03_04

210 sequences assigned
35 (16.7%) exact matches, in which:
24 unique CDR3
5 unique J



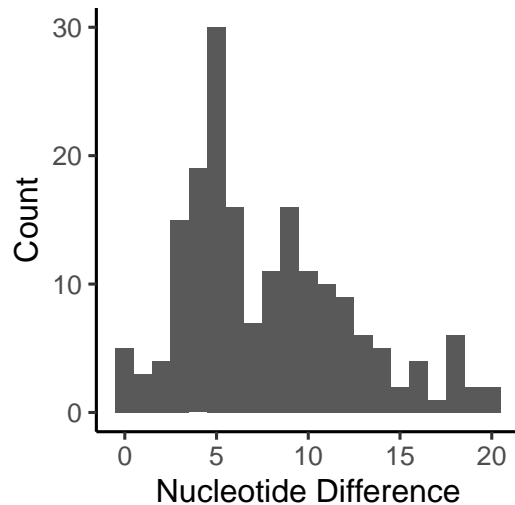
IGHV4-59*01_07

326 sequences assigned
21 (6.4%) exact matches, in which:
20 unique CDR3
4 unique J



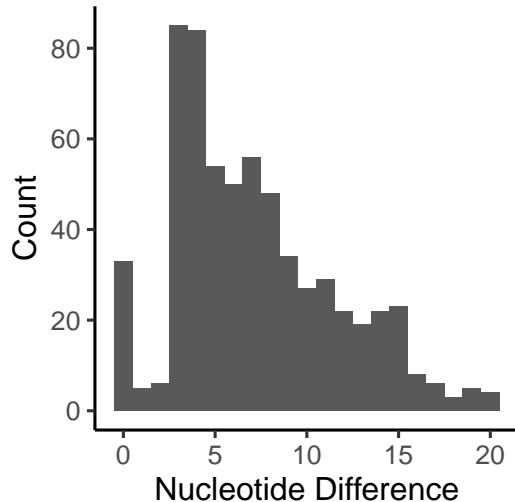
IGHV6-1*01_02

187 sequences assigned
5 (2.7%) exact matches, in which:
5 unique CDR3
2 unique J



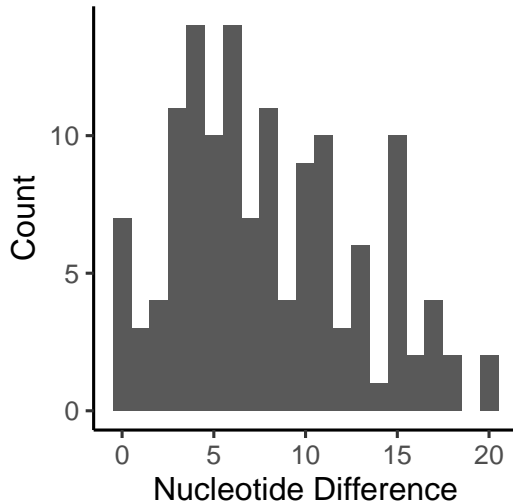
IGHV4-34*01_02

647 sequences assigned
33 (5.1%) exact matches, in which:
31 unique CDR3
5 unique J



IGHV4-61*01

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





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.

Warning – no inferred sequences found.

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

Warning – no inferred sequences found.

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

Warning – no inferred sequences found.

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_G88A are not listed in the genotype and will be ignored.

Warning – no inferred sequences found.

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

Warning – no inferred sequences found.

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.

Novel sequence(s)IGHV5–51*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)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.

Novel sequence(s)IGHV1–69*04_09_G112AIGHV4–59*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.

Warning – no inferred sequences found.