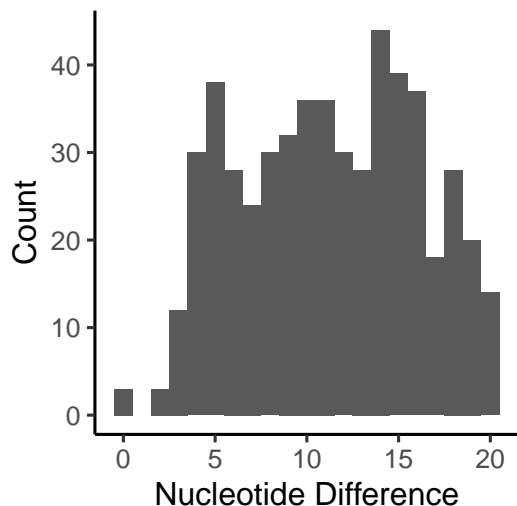


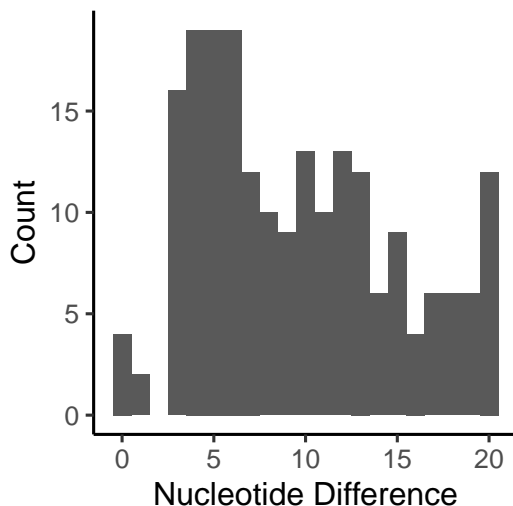
IGHV1-2*02

627 sequences assigned
3 (0.5%) exact matches, in which:
3 unique CDR3
3 unique J



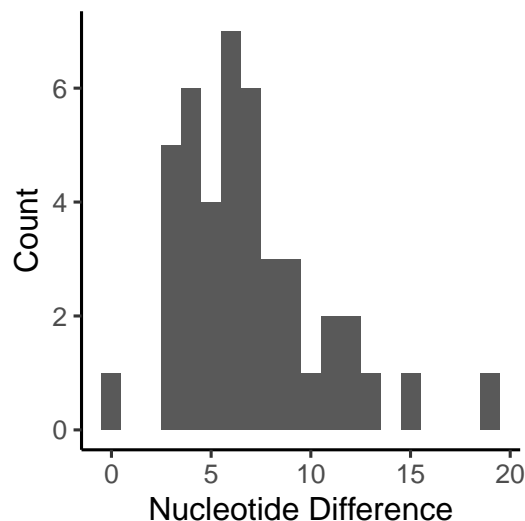
IGHV1-3*01_05

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



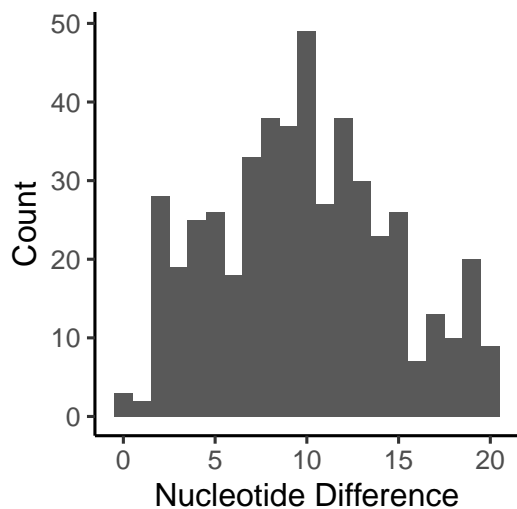
IGHV1-24*01

48 sequences assigned
1 (2.1%) exact matches, in which:
1 unique CDR3
1 unique J



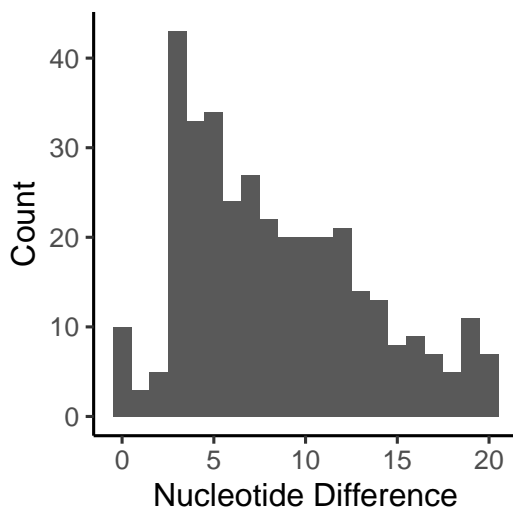
IGHV1-2*06

586 sequences assigned
3 (0.5%) exact matches, in which:
3 unique CDR3
1 unique J



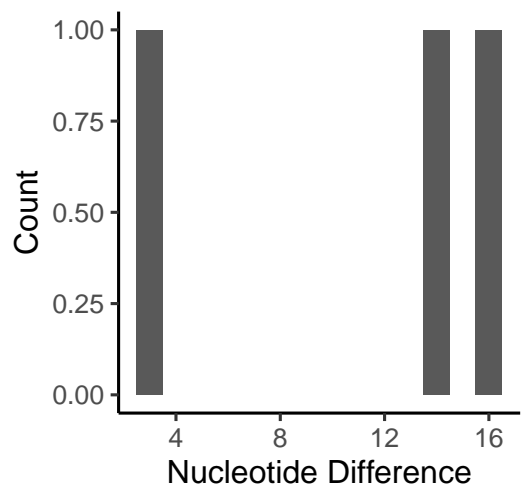
IGHV1-8*01

389 sequences assigned
10 (2.6%) exact matches, in which:
10 unique CDR3
3 unique J



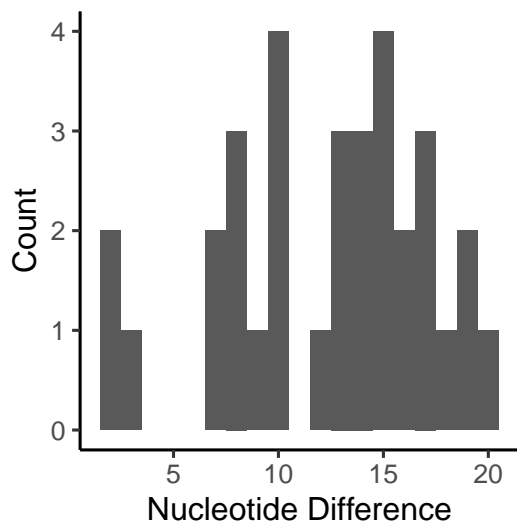
IGHV1-45*02

3 sequences assigned
No exact matches.



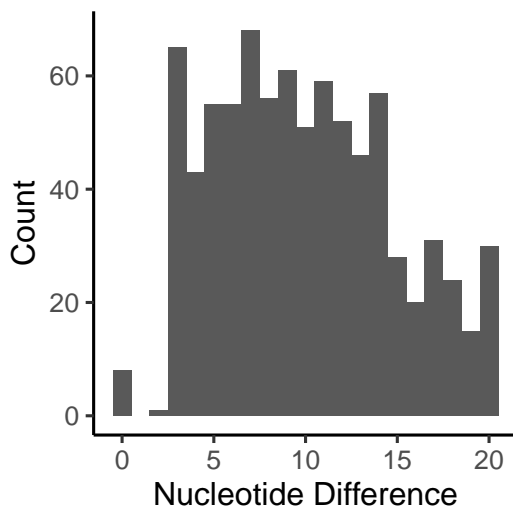
IGHV1-3*04

43 sequences assigned
No exact matches.



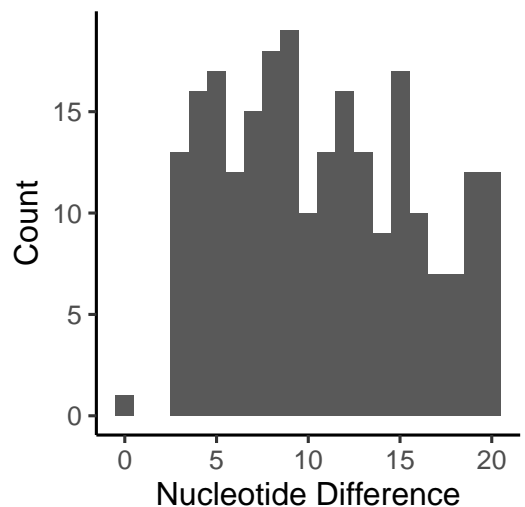
IGHV1-18*01

970 sequences assigned
8 (0.8%) exact matches, in which:
8 unique CDR3
3 unique J



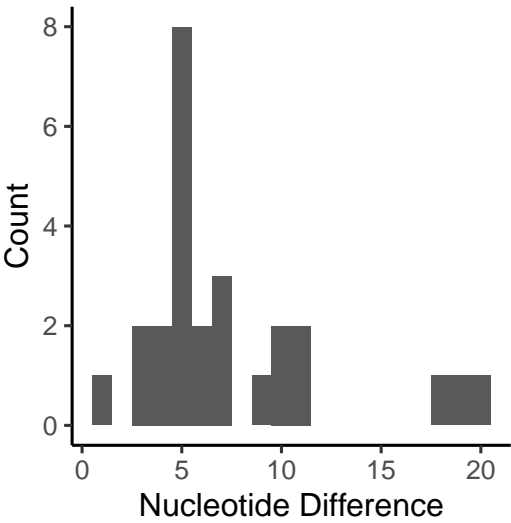
IGHV1-46*01

296 sequences assigned
1 (0.3%) exact matches, in which:
1 unique CDR3
1 unique J



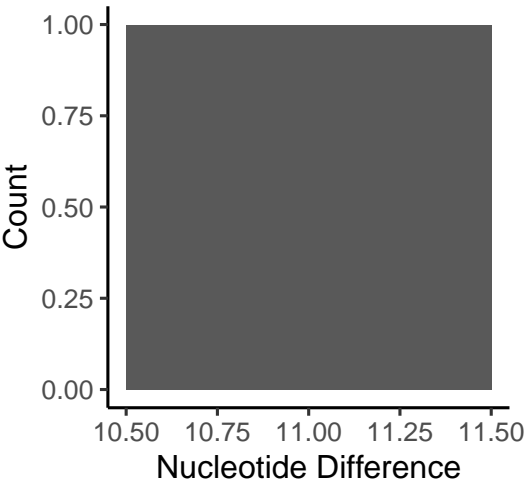
IGHV1-58*02

27 sequences assigned
No exact matches.



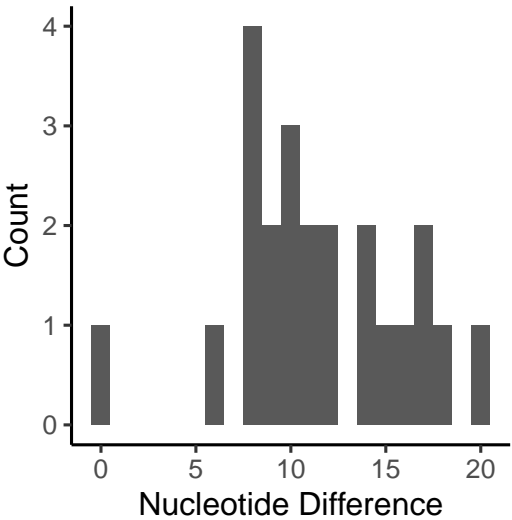
IGHV1-69-2*01

1 sequences assigned
No exact matches.



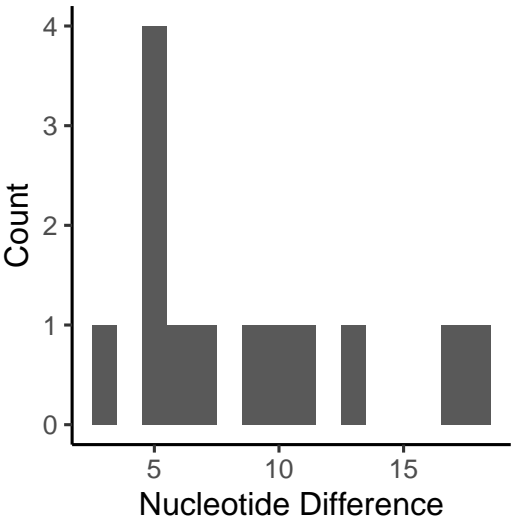
IGHV1-69*06_14

27 sequences assigned
1 (3.7%) exact matches, in which:
1 unique CDR3
1 unique J



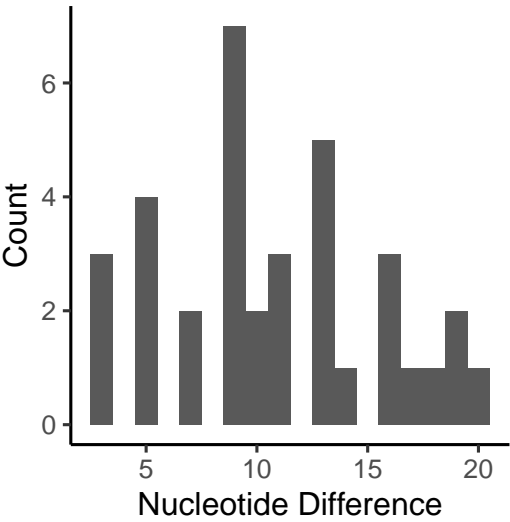
IGHV1-58*01_03

13 sequences assigned
No exact matches.



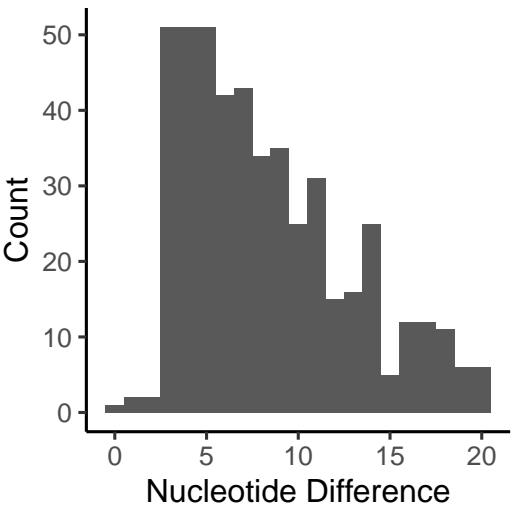
IGHV1-69*02

46 sequences assigned
No exact matches.



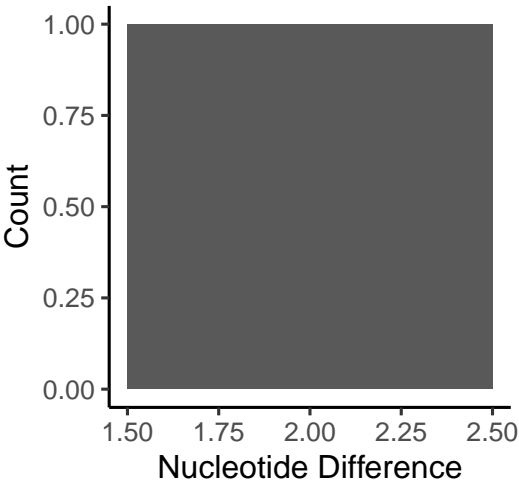
IGHV2-5*02

514 sequences assigned
1 (0.2%) exact matches, in which:
1 unique CDR3
1 unique J



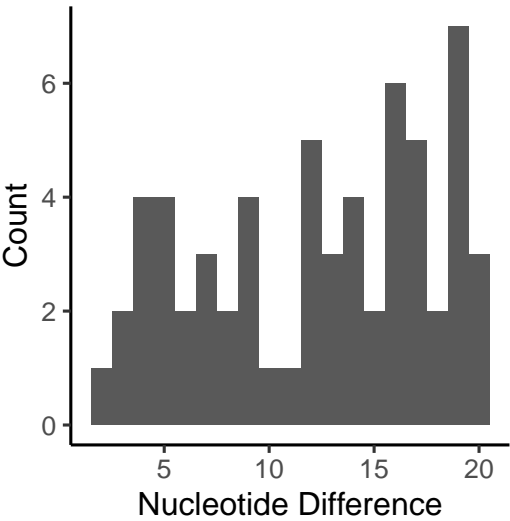
IGHV1-68*02

1 sequences assigned
No exact matches.



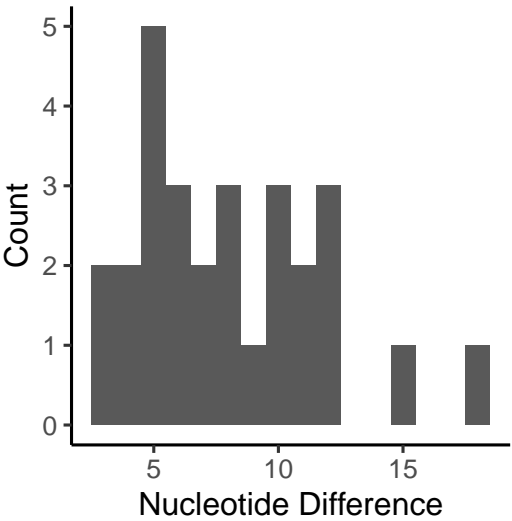
IGHV1-69*04_09

76 sequences assigned
No exact matches.



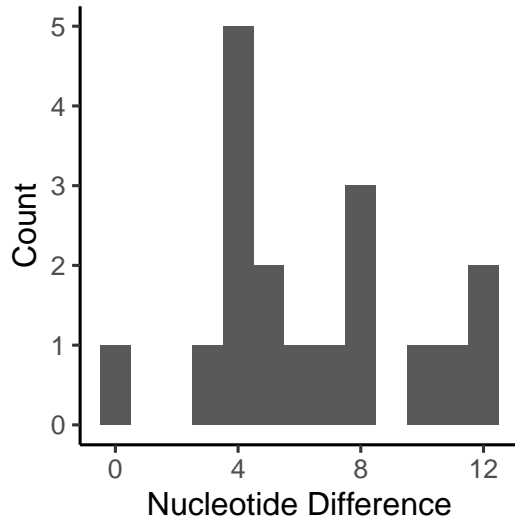
IGHV2-26*01

29 sequences assigned
No exact matches.



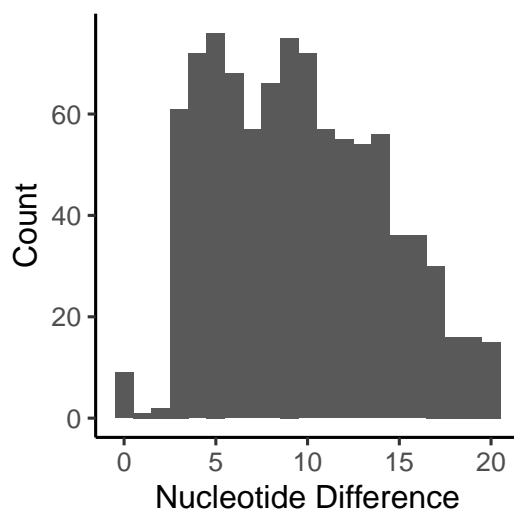
IGHV2-70*01

19 sequences assigned
1 (5.3%) exact matches, in which:
1 unique CDR3
1 unique J



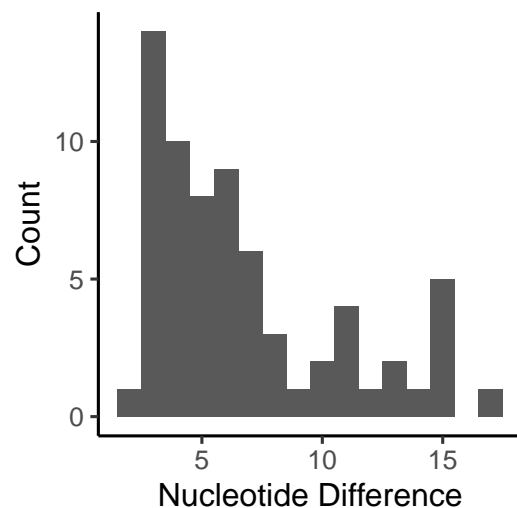
IGHV3-11*01

1014 sequences assigned
9 (0.9%) exact matches, in which:
8 unique CDR3
3 unique J



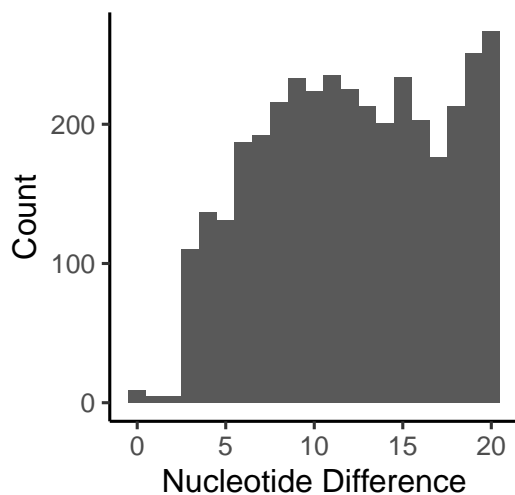
IGHV3-20*01_02

68 sequences assigned
No exact matches.



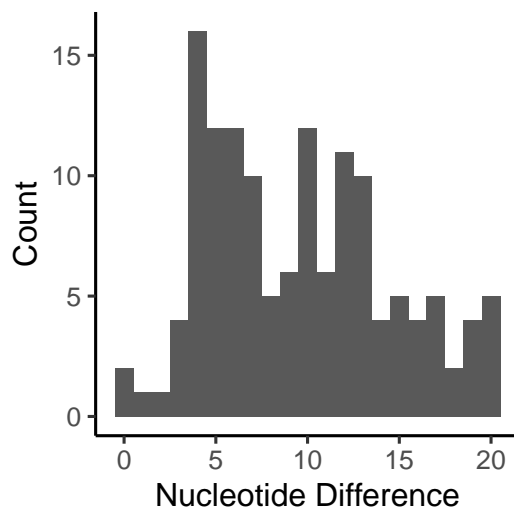
IGHV3-7*01

4708 sequences assigned
9 (0.2%) exact matches, in which:
8 unique CDR3
3 unique J



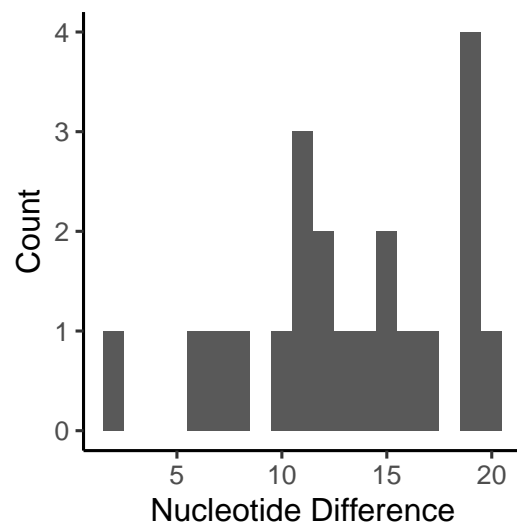
IGHV3-13*01

163 sequences assigned
2 (1.2%) exact matches, in which:
1 unique CDR3
1 unique J



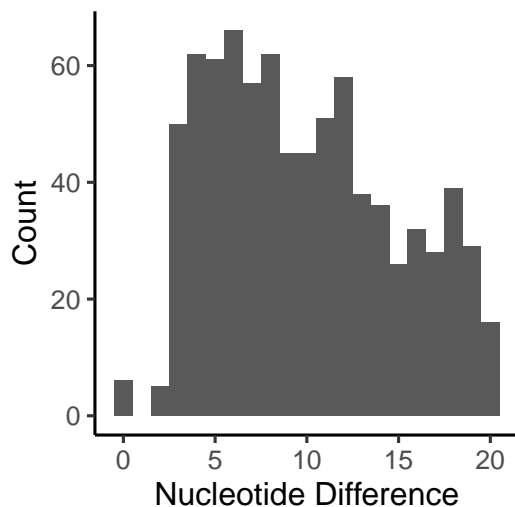
IGHV3-20*03_04

23 sequences assigned
No exact matches.



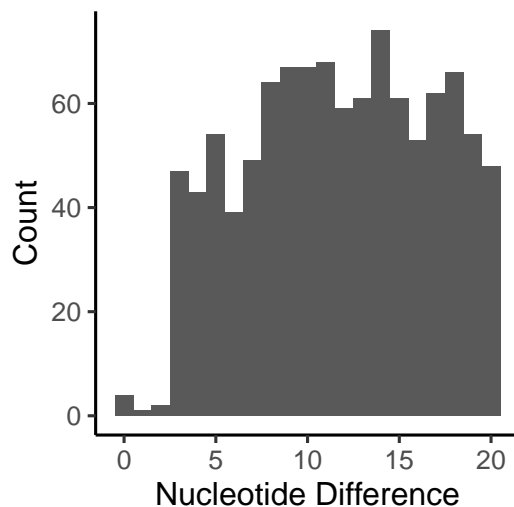
IGHV3-9*01

917 sequences assigned
6 (0.7%) exact matches, in which:
6 unique CDR3
2 unique J



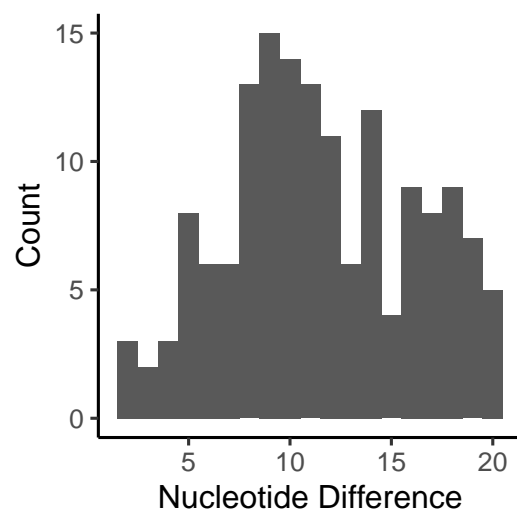
IGHV3-15*01_02

1263 sequences assigned
4 (0.3%) exact matches, in which:
4 unique CDR3
3 unique J



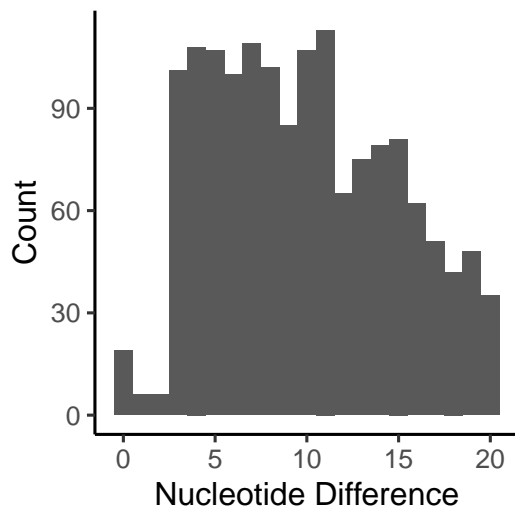
IGHV3-21*06

179 sequences assigned
No exact matches.



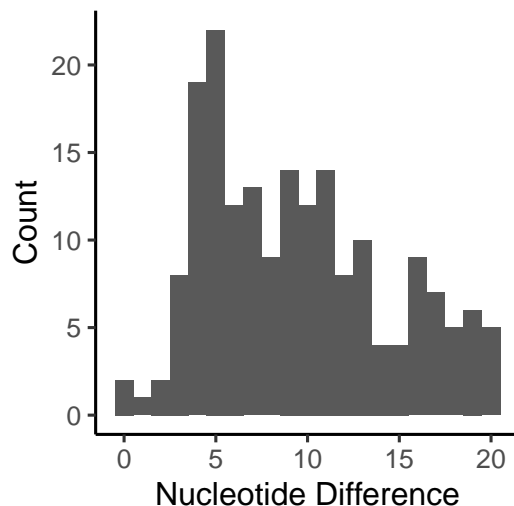
IGHV3-21*01_02

1695 sequences assigned
19 (1.1%) exact matches, in which:
16 unique CDR3
3 unique J



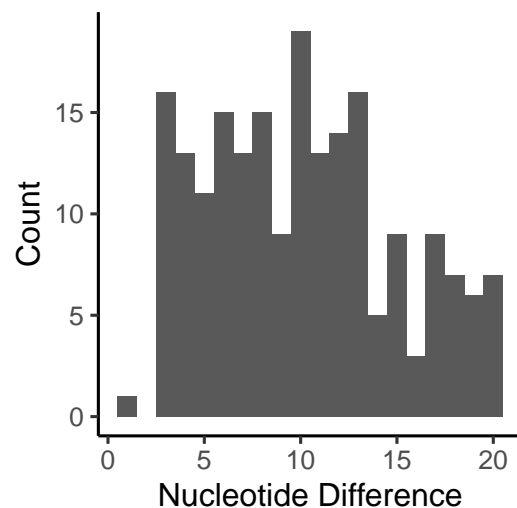
IGHV3-43*02

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



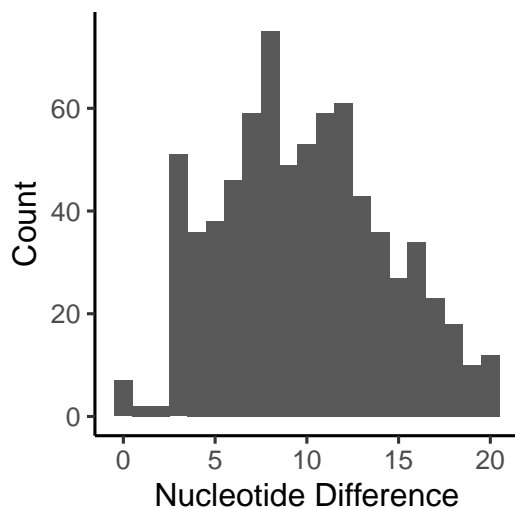
IGHV3-49*04

227 sequences assigned
No exact matches.



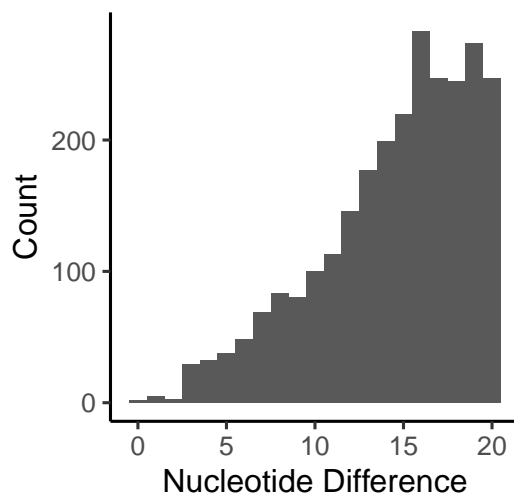
IGHV3-30-3*01

855 sequences assigned
7 (0.8%) exact matches, in which:
6 unique CDR3
3 unique J



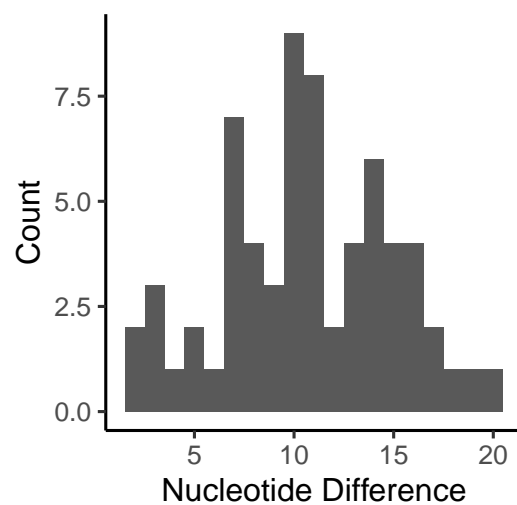
IGHV3-48*01

4039 sequences assigned
2 (0%) exact matches, in which:
2 unique CDR3
2 unique J



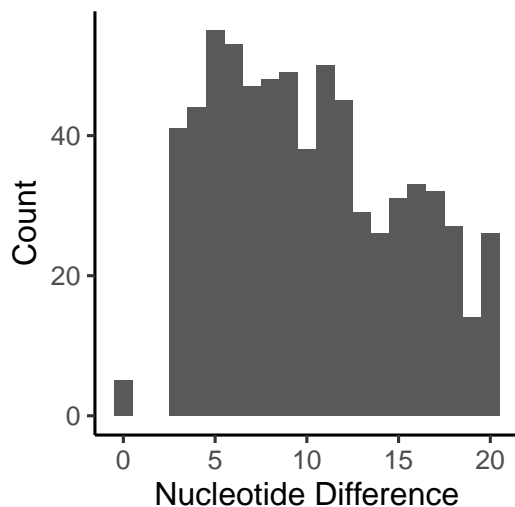
IGHV3-49*03_05

95 sequences assigned
No exact matches.



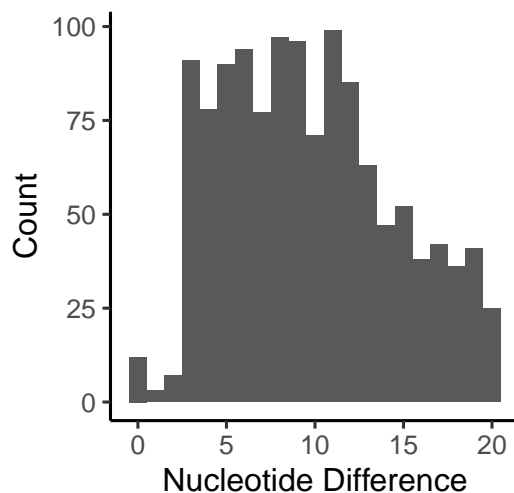
IGHV3-33*01

792 sequences assigned
5 (0.6%) exact matches, in which:
5 unique CDR3
2 unique J



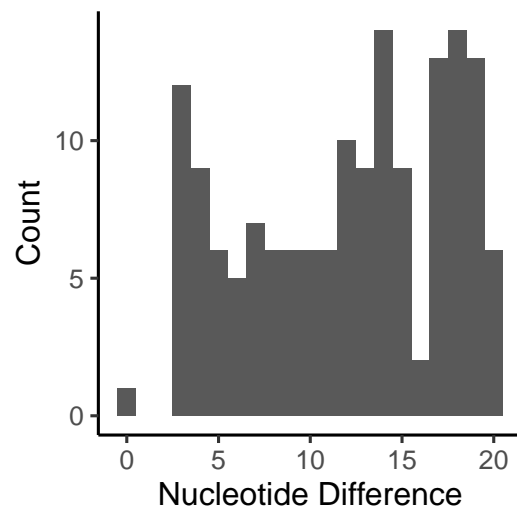
IGHV3-48*03

1381 sequences assigned
12 (0.9%) exact matches, in which:
10 unique CDR3
1 unique J



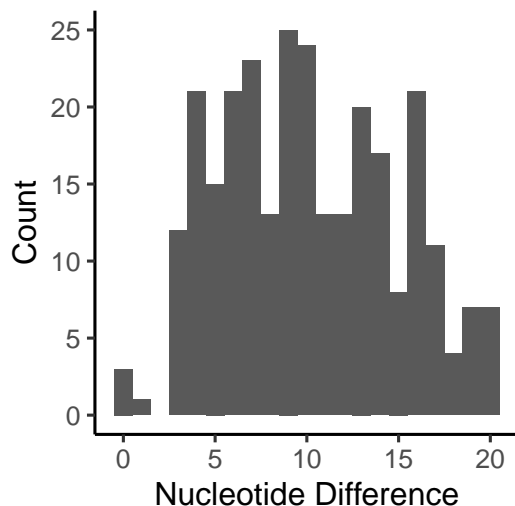
IGHV3-53*04

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



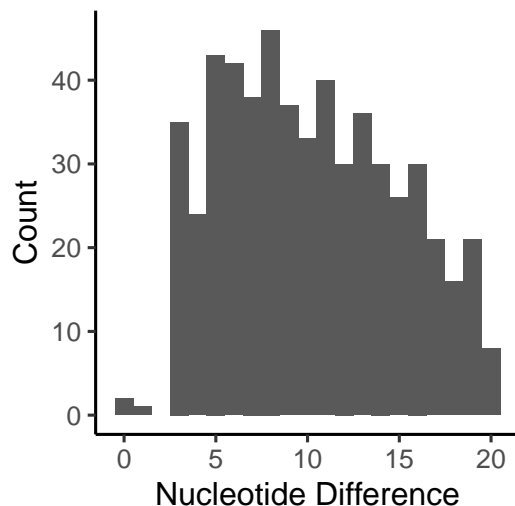
IGHV3-53*01_02

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



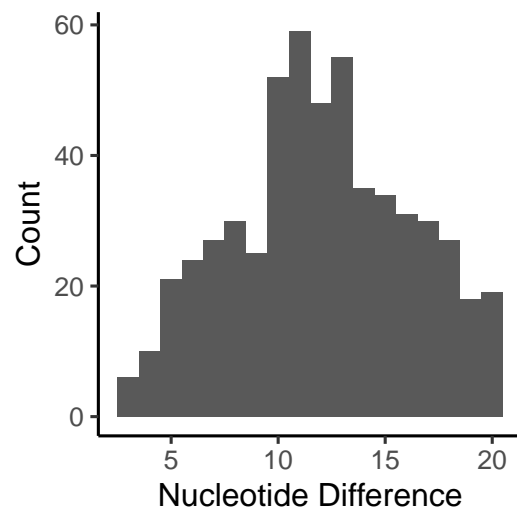
IGHV3-66*02

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



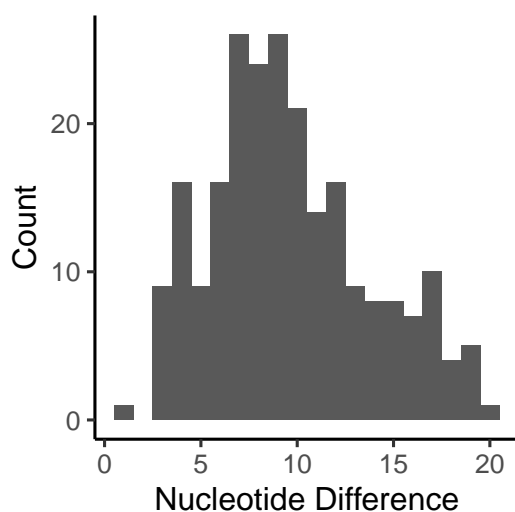
IGHV3-72*01

604 sequences assigned
No exact matches.



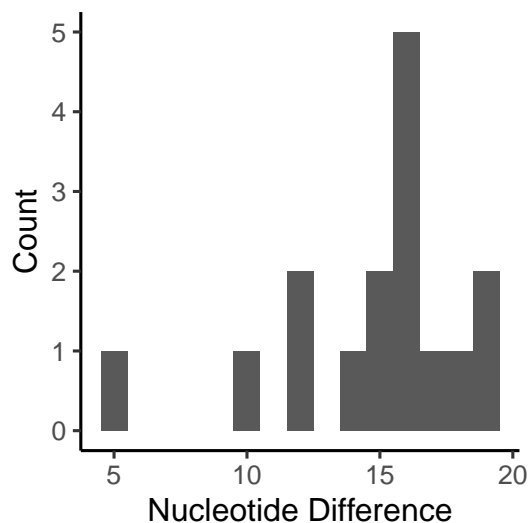
IGHV3-64*01

262 sequences assigned
No exact matches.



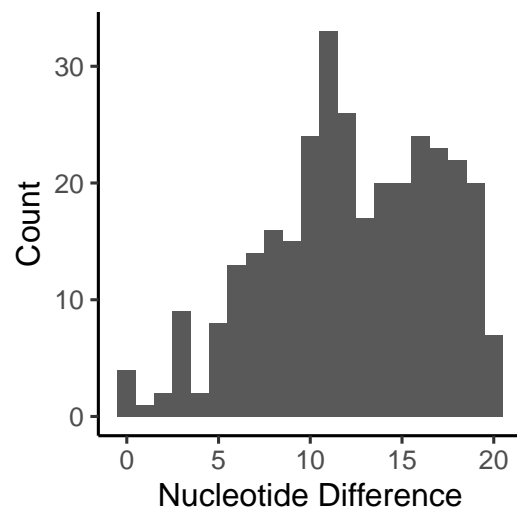
IGHV3-69-1*01

104 sequences assigned
No exact matches.



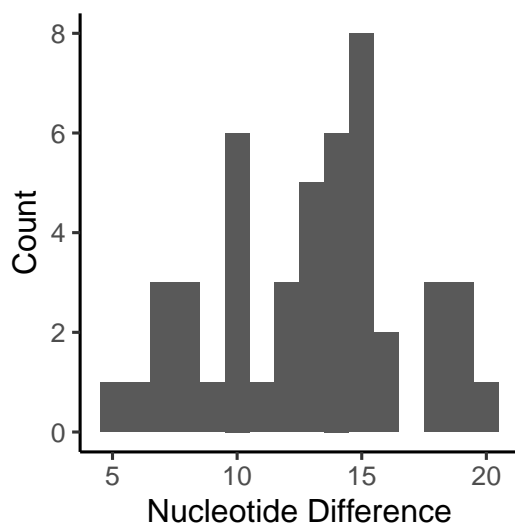
IGHV3-73*01_02

348 sequences assigned
4 (1.1%) exact matches, in which:
4 unique CDR3
3 unique J



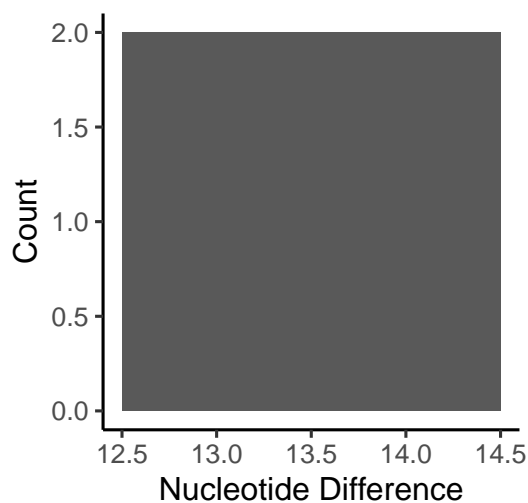
IGHV3-64*02_07

105 sequences assigned
No exact matches.



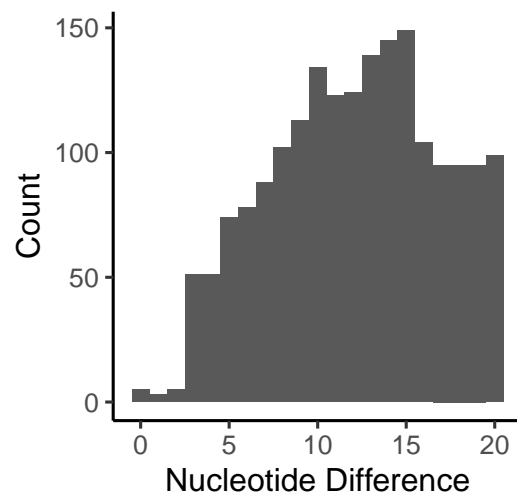
IGHV3-69-1*02

16 sequences assigned
No exact matches.



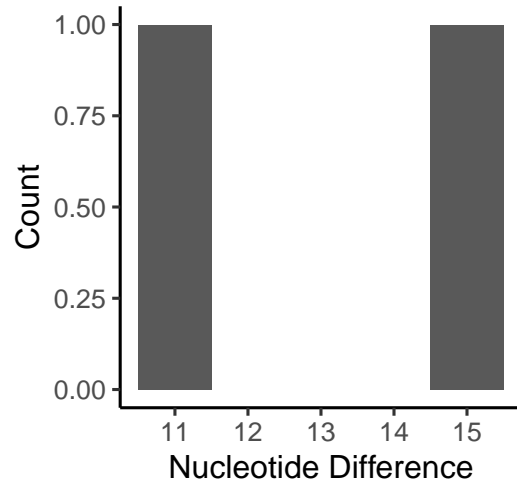
IGHV3-74*01_02

2198 sequences assigned
5 (0.2%) exact matches, in which:
5 unique CDR3
3 unique J



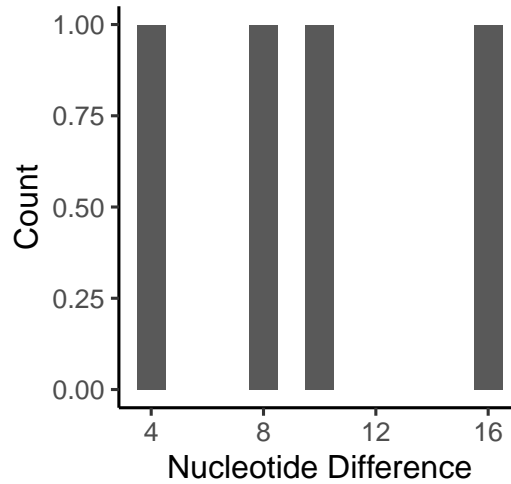
IGHV3-43D*03

3 sequences assigned
No exact matches.



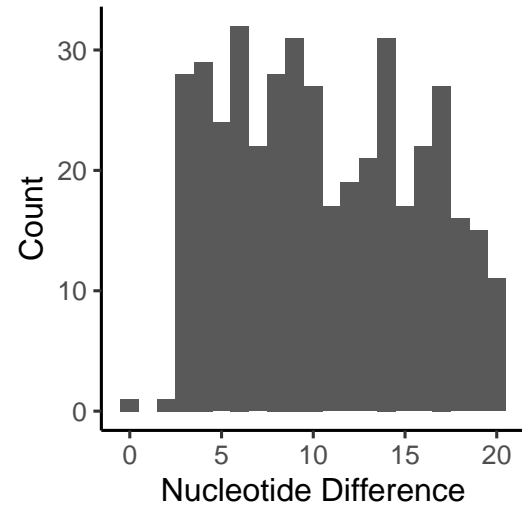
IGHV4-28*01_07

4 sequences assigned
No exact matches.



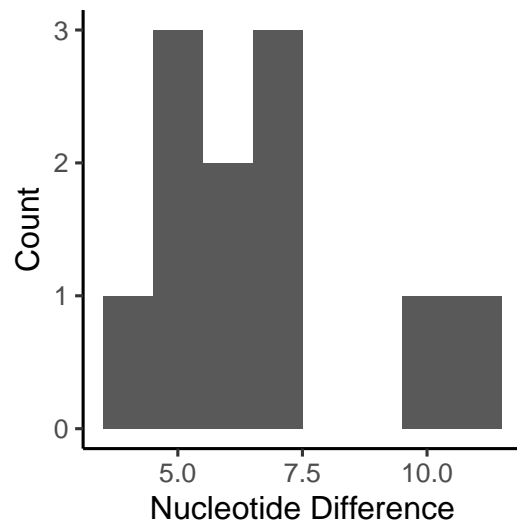
IGHV4-31*03_04

490 sequences assigned
1 (0.2%) exact matches, in which:
1 unique CDR3
1 unique J



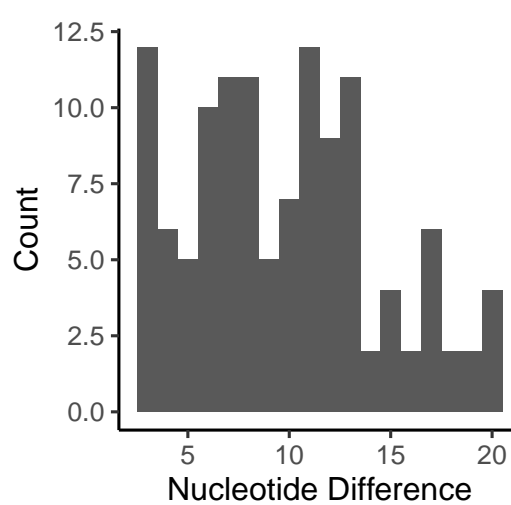
IGHV3-43D*04

12 sequences assigned
No exact matches.



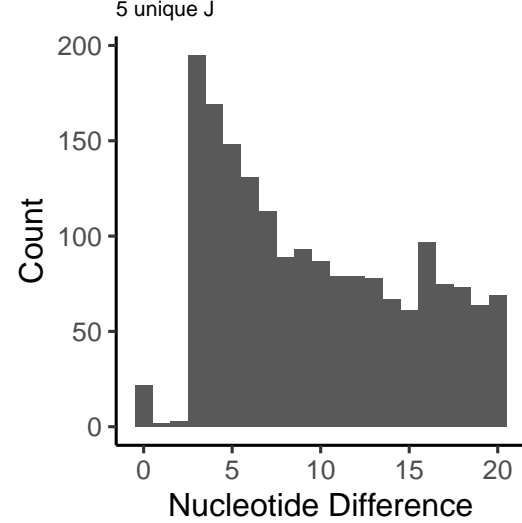
IGHV4-30-2*01

139 sequences assigned
No exact matches.



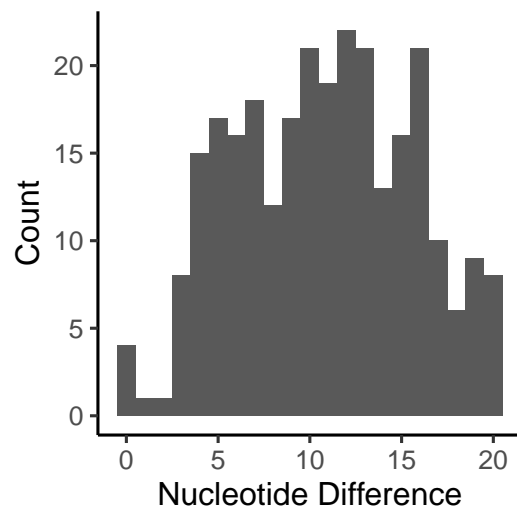
IGHV4-34*01_02

2317 sequences assigned
22 (0.9%) exact matches, in which:
19 unique CDR3
5 unique J



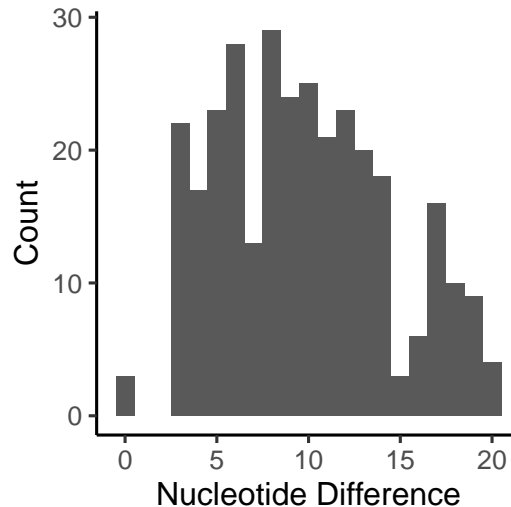
IGHV4-4*07

346 sequences assigned
4 (1.2%) exact matches, in which:
4 unique CDR3
1 unique J



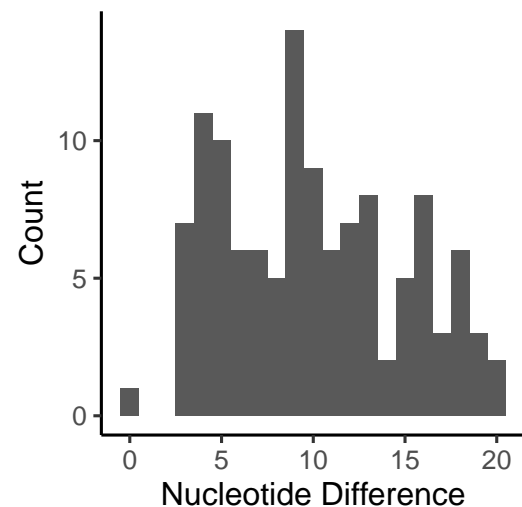
IGHV4-30-4*01

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



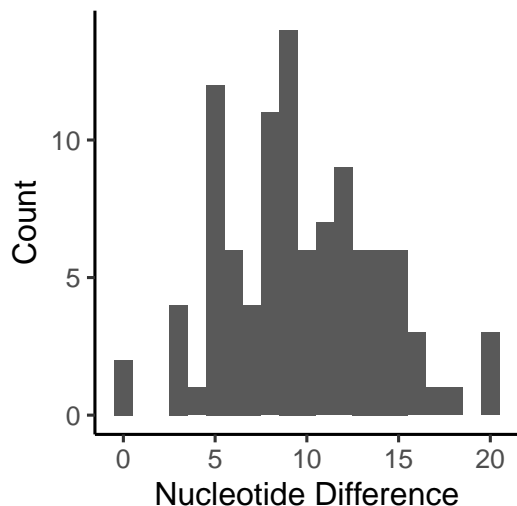
IGHV4-38-2*01

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



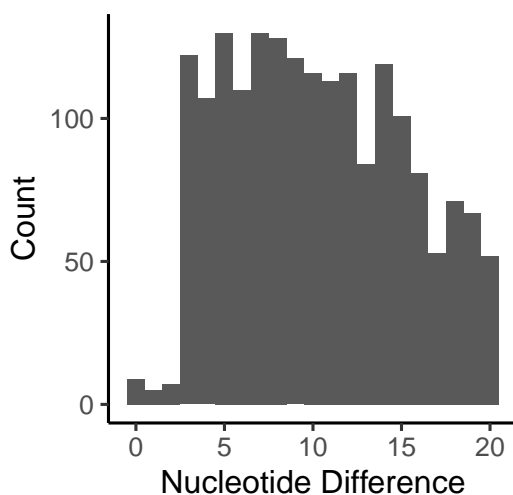
IGHV4-38-2*02

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



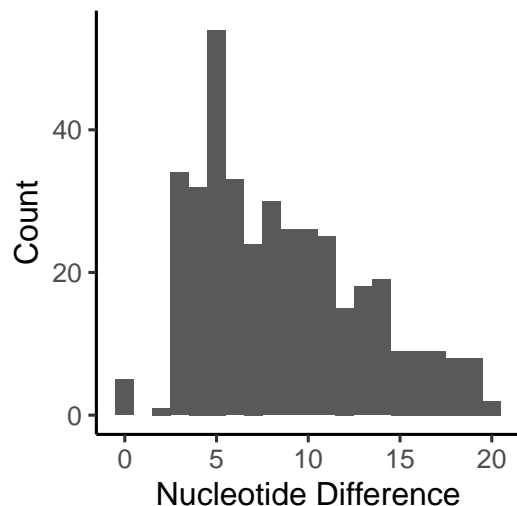
IGHV4-59*01_07

2152 sequences assigned
9 (0.4%) exact matches, in which:
9 unique CDR3
5 unique J



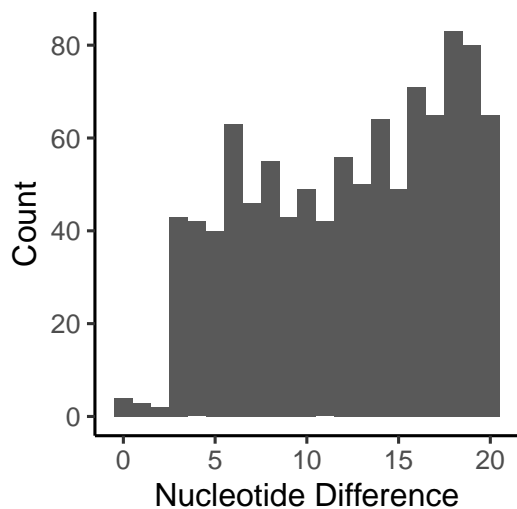
IGHV5-51*01_03

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



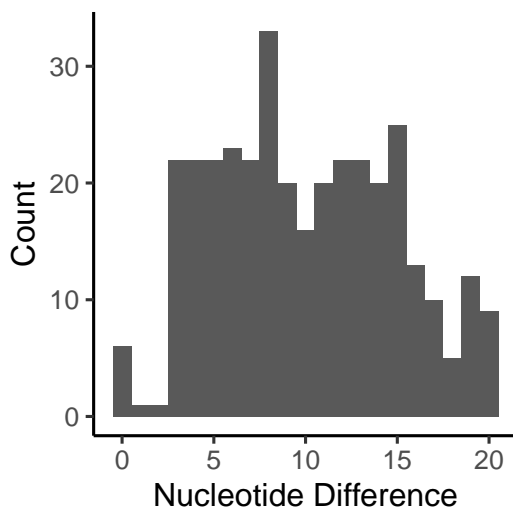
IGHV4-39*07

1896 sequences assigned
4 (0.2%) exact matches, in which:
4 unique CDR3
3 unique J



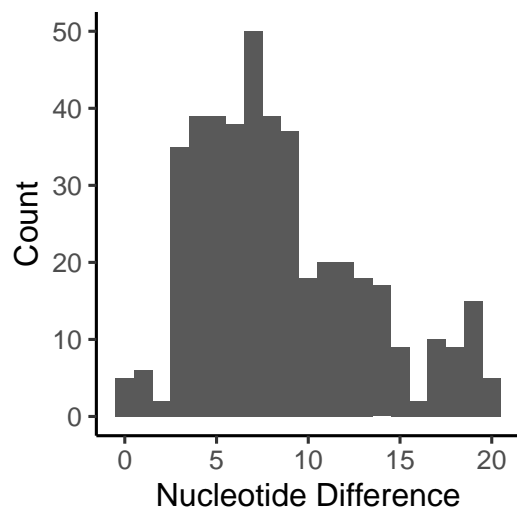
IGHV4-61*01

411 sequences assigned
6 (1.5%) exact matches, in which:
5 unique CDR3
3 unique J



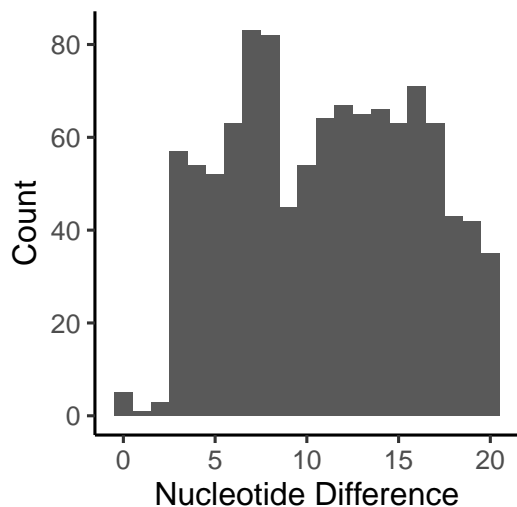
IGHV6-1*01_02

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



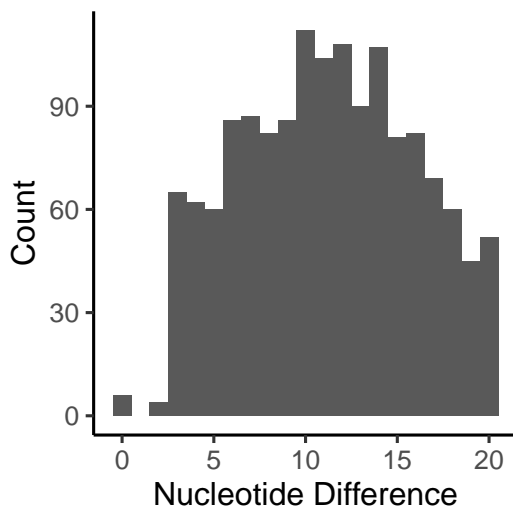
IGHV4-39*01_05

1860 sequences assigned
5 (0.3%) exact matches, in which:
5 unique CDR3
2 unique J



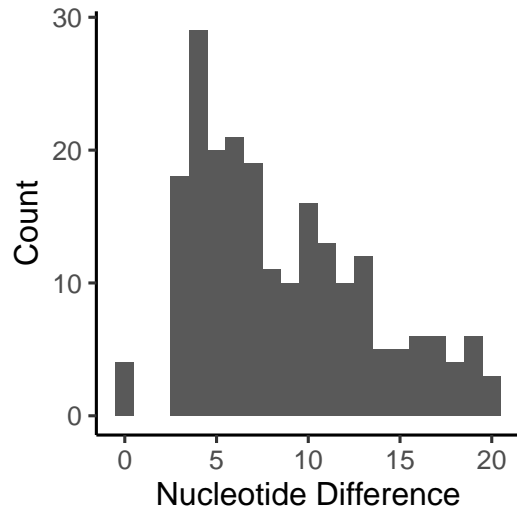
IGHV4-61*02

1645 sequences assigned
6 (0.4%) exact matches, in which:
5 unique CDR3
3 unique J

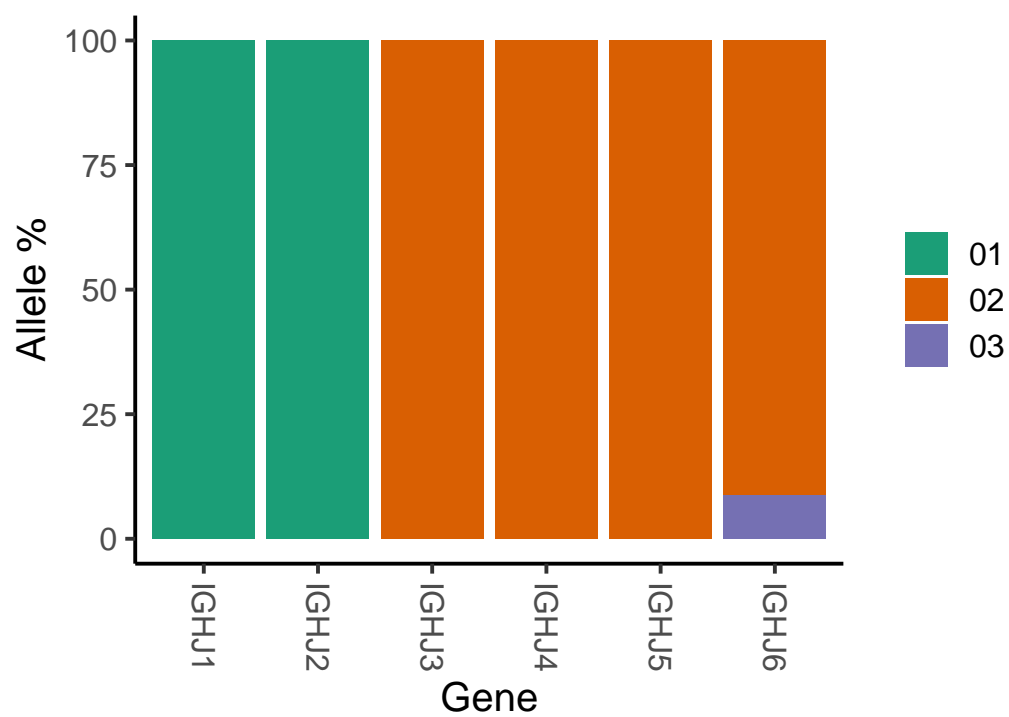


IGHV7-4-1*02

257 sequences assigned
4 (1.6%) exact matches, in which:
4 unique CDR3
2 unique J



Allele Usage



Novel sequence(s)IGHV1-38*02_G88A are not listed in the genotype and will be ignored.

Warning – no inferred sequences found.

Novel sequence(s)IGHV3-11*06_T300CIGHV4-38-2*02_A70GIGHV4-39*02_C258GIGHV5-51*07_A128G are not listed in the genotype and will be ignored.

Warning – no inferred sequences found.

Novel sequence(s)IGHV4-39*02_C258GIGHV4-59*02_G88AIGHV5-51*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.

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)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.