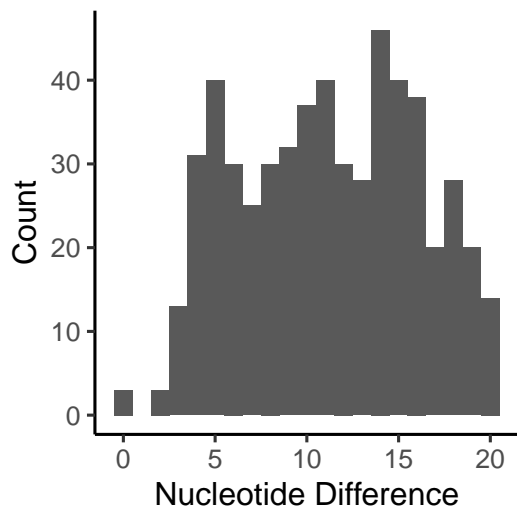


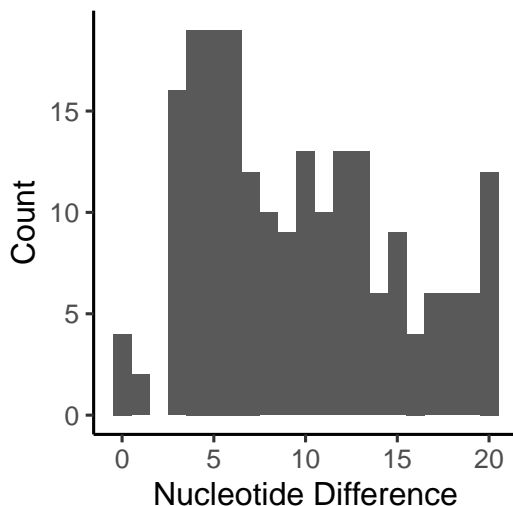
IGHV1-2*02

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



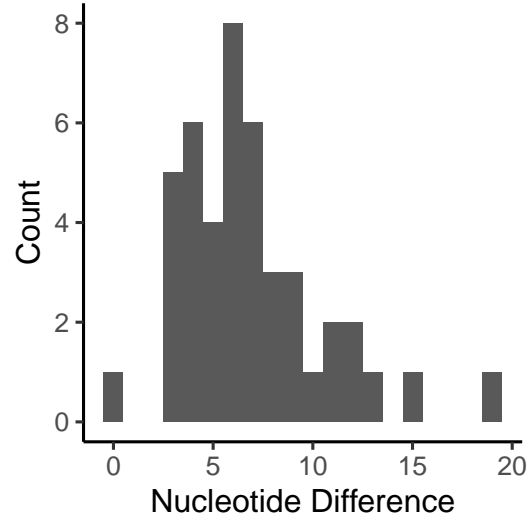
IGHV1-3*01_05

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



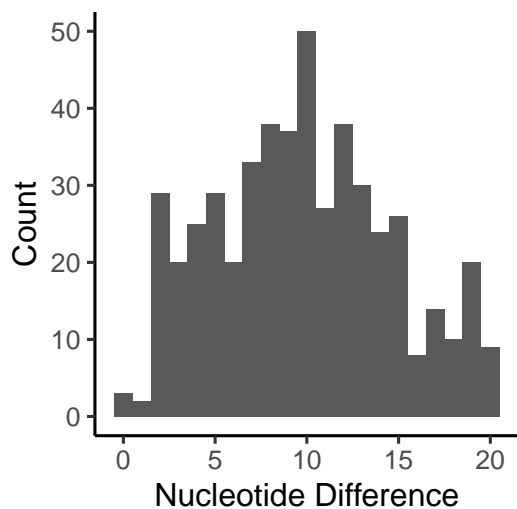
IGHV1-24*01

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



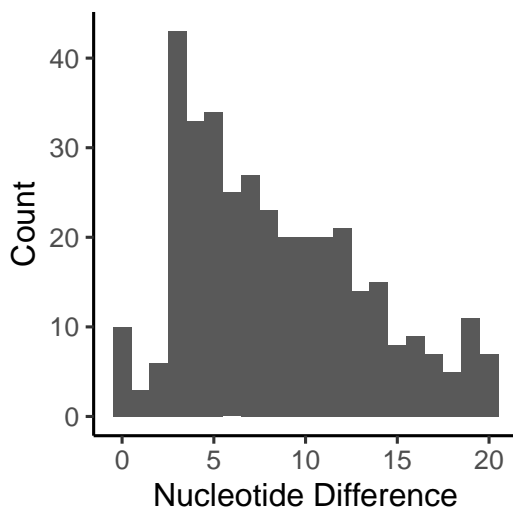
IGHV1-2*06

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



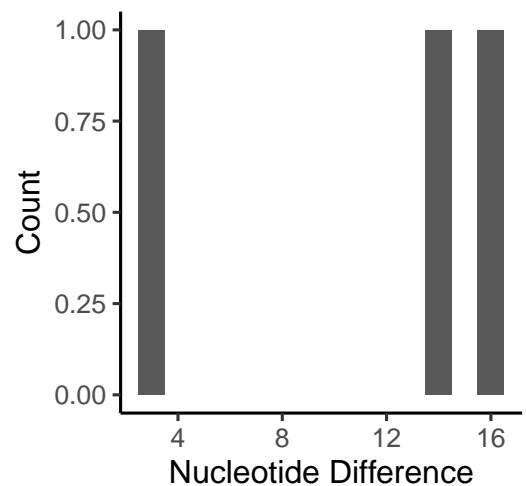
IGHV1-8*01

397 sequences assigned
10 (2.5%) exact matches, in which:
10 unique CDR3
3 unique J



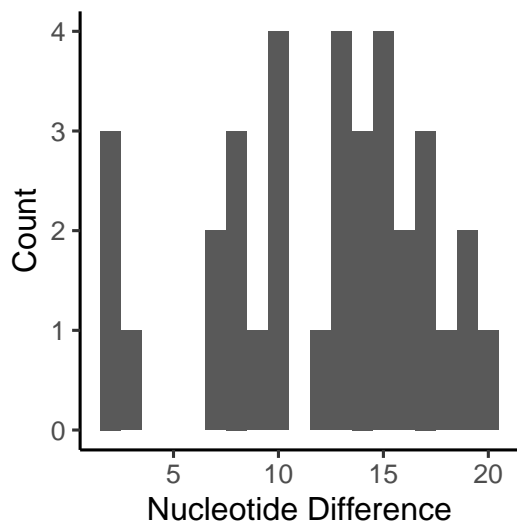
IGHV1-45*02

3 sequences assigned
No exact matches.



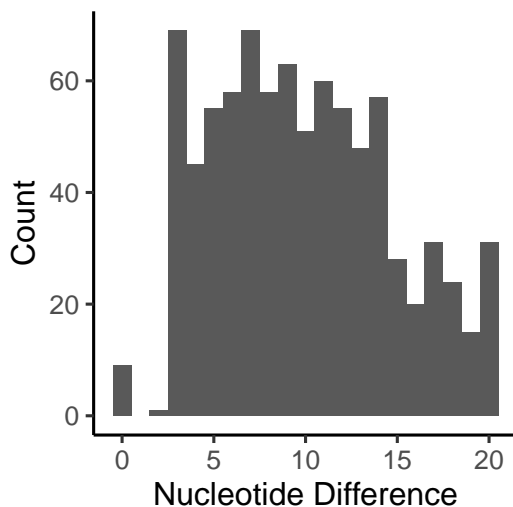
IGHV1-3*04

45 sequences assigned
No exact matches.



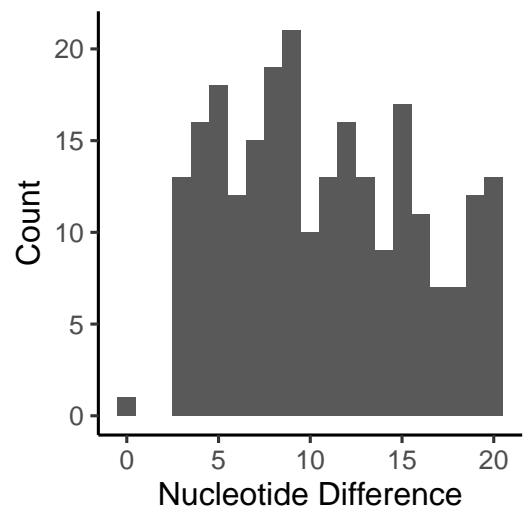
IGHV1-18*01

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



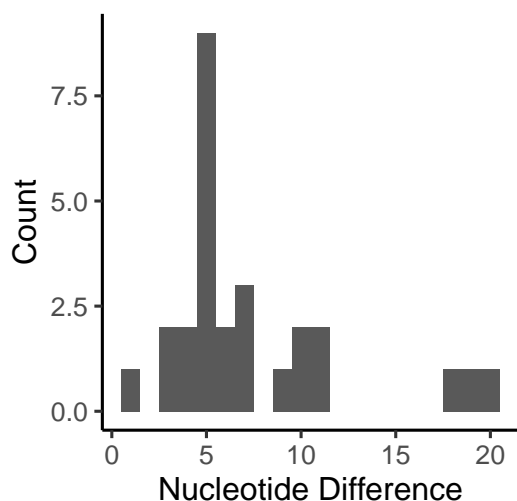
IGHV1-46*01

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



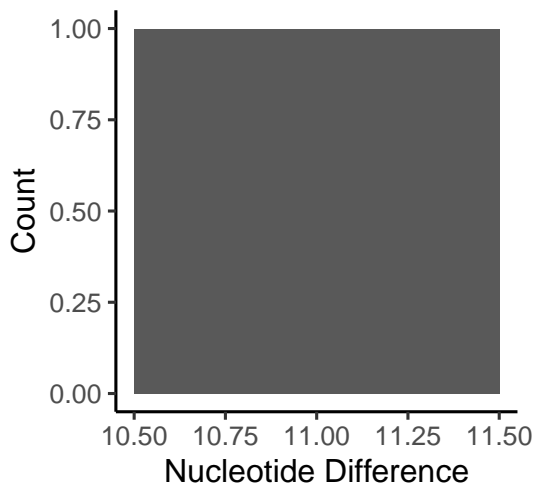
IGHV1-58*02

28 sequences assigned
No exact matches.



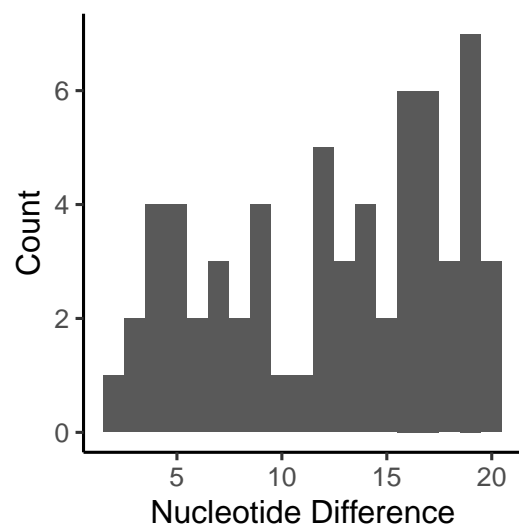
IGHV1-69-2*01

1 sequences assigned
No exact matches.



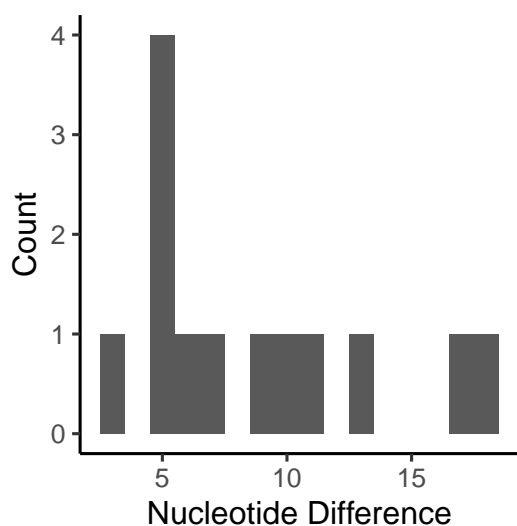
IGHV1-69*04_09

79 sequences assigned
No exact matches.



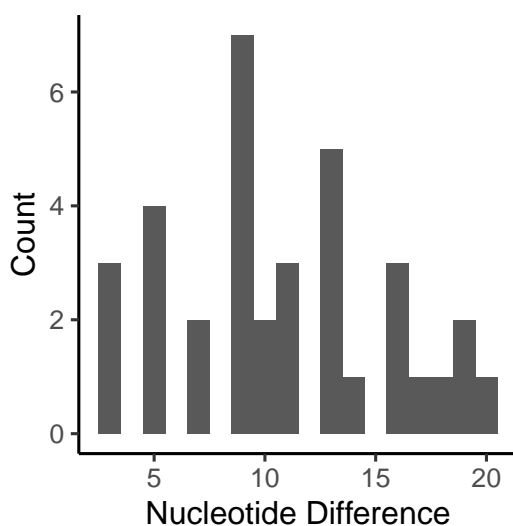
IGHV1-58*01_03

13 sequences assigned
No exact matches.



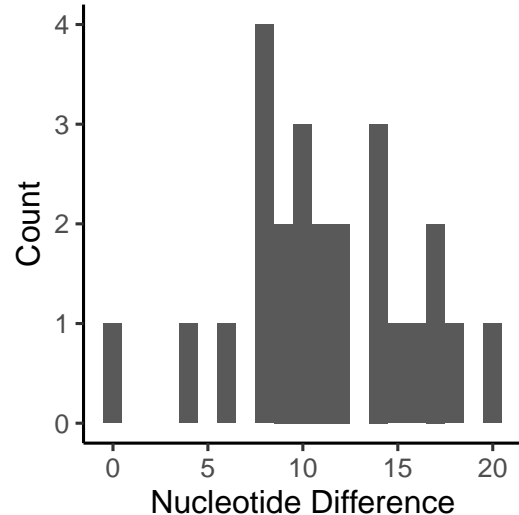
IGHV1-69*02

46 sequences assigned
No exact matches.



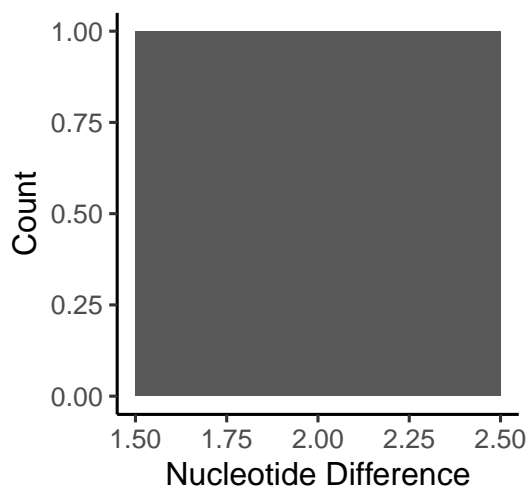
IGHV1-69*06_14

29 sequences assigned
1 (3.4%) exact matches, in which:
1 unique CDR3
1 unique J



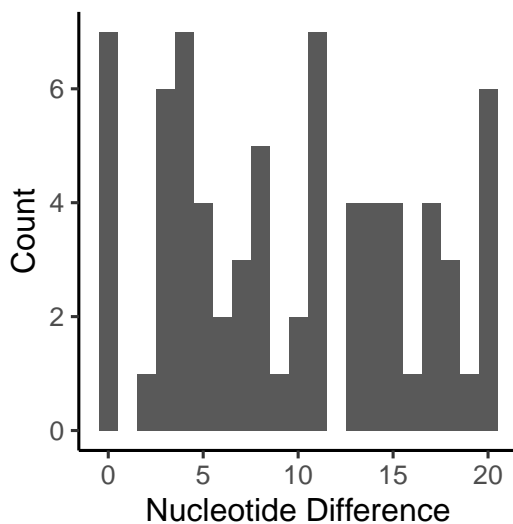
IGHV1-68*02_03

1 sequences assigned
No exact matches.



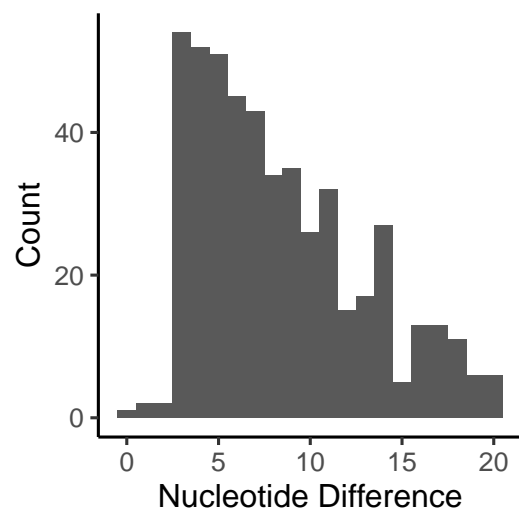
IGHV1-69*01_12_13

93 sequences assigned
7 (7.5%) exact matches, in which:
7 unique CDR3
4 unique J



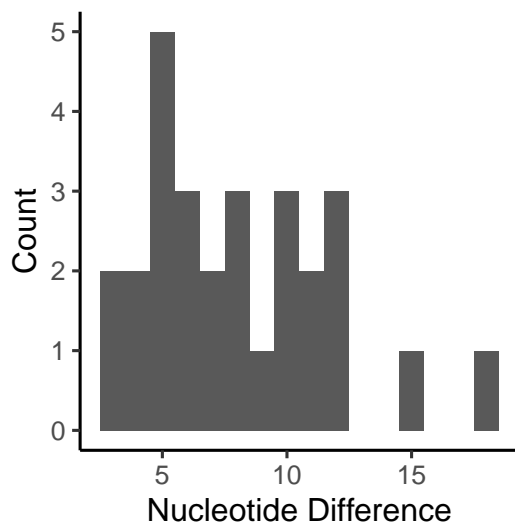
IGHV2-5*02

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



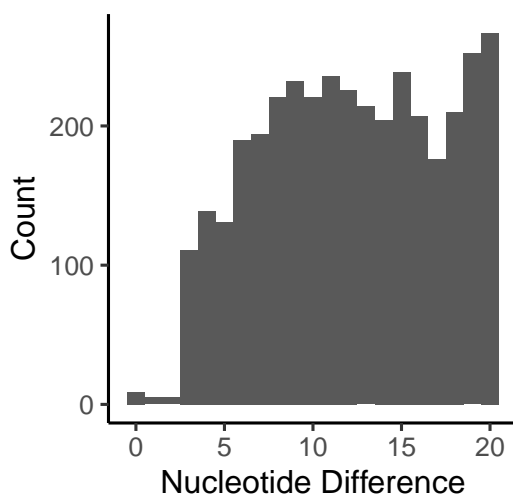
IGHV2-26*01

29 sequences assigned
No exact matches.



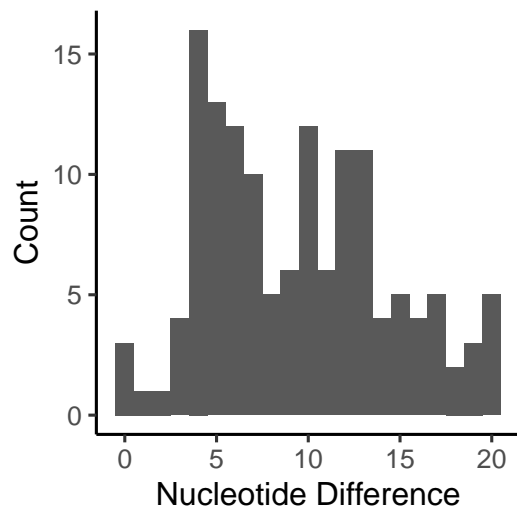
IGHV3-7*01

4710 sequences assigned
9 (0.2%) exact matches, in which:
8 unique CDR3
3 unique J



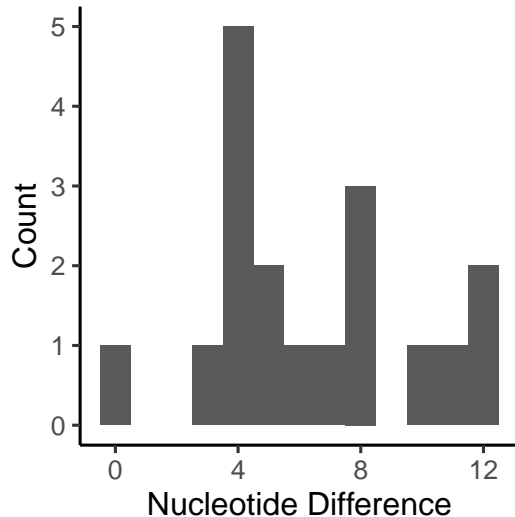
IGHV3-13*01

167 sequences assigned
3 (1.8%) exact matches, in which:
2 unique CDR3
2 unique J



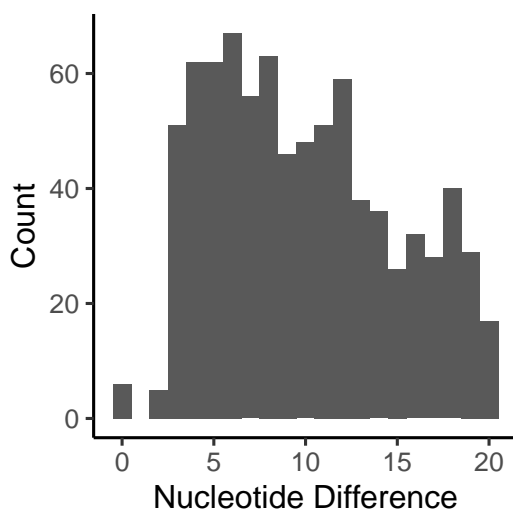
IGHV2-70*01

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



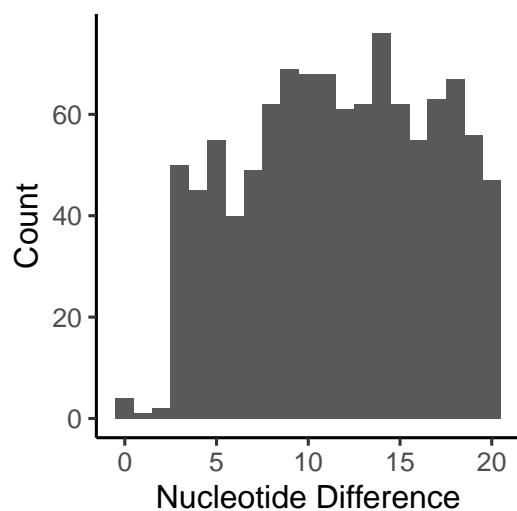
IGHV3-9*01

930 sequences assigned
6 (0.6%) exact matches, in which:
6 unique CDR3
2 unique J



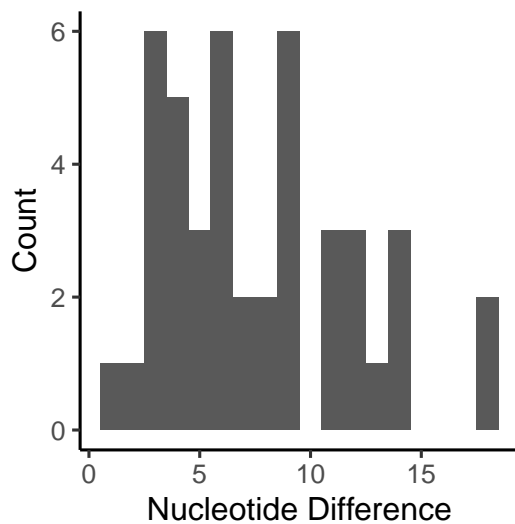
IGHV3-15*01_02

1285 sequences assigned
4 (0.3%) exact matches, in which:
4 unique CDR3
3 unique J



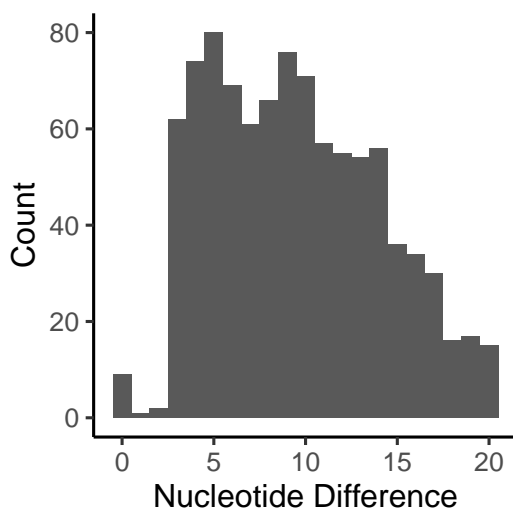
IGHV2-70*04

46 sequences assigned
No exact matches.



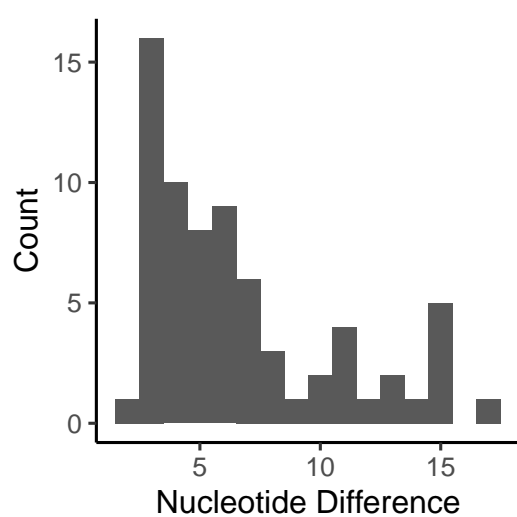
IGHV3-11*01

1023 sequences assigned
9 (0.9%) exact matches, in which:
8 unique CDR3
3 unique J



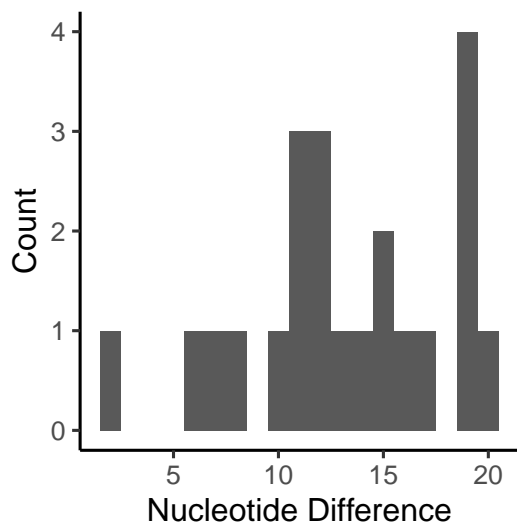
IGHV3-20*01_02

70 sequences assigned
No exact matches.



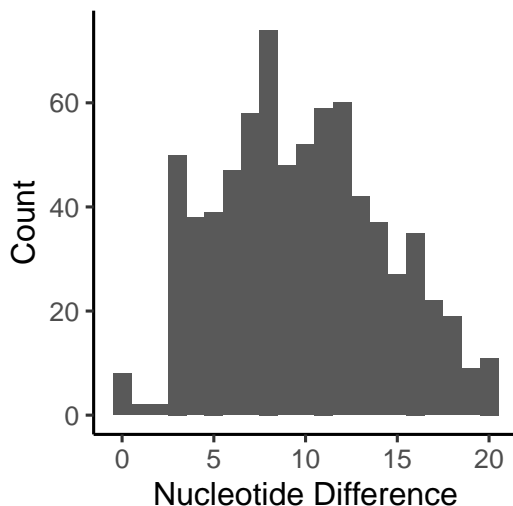
IGHV3-20*03_04

24 sequences assigned
No exact matches.



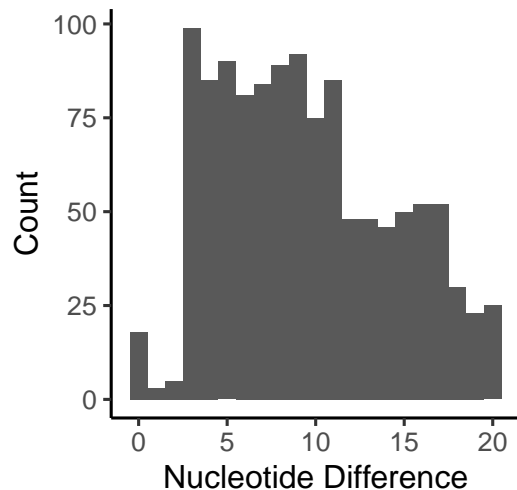
IGHV3-30-3*01

848 sequences assigned
8 (0.9%) exact matches, in which:
7 unique CDR3
4 unique J



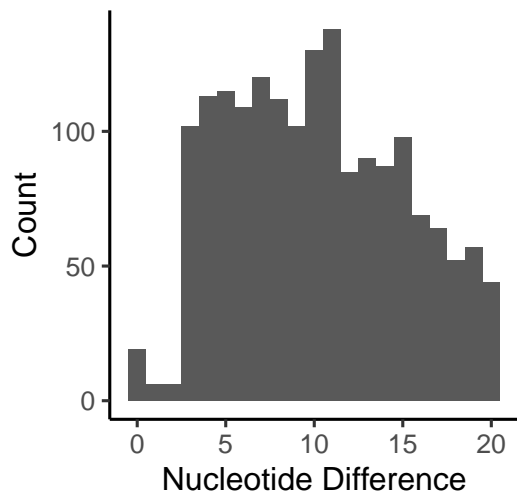
IGHV3-30*18

1318 sequences assigned
18 (1.4%) exact matches, in which:
17 unique CDR3
5 unique J



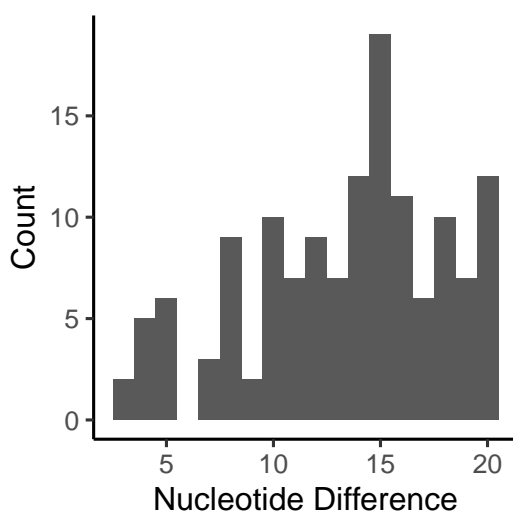
IGHV3-21*01_02

1980 sequences assigned
19 (1%) exact matches, in which:
16 unique CDR3
3 unique J



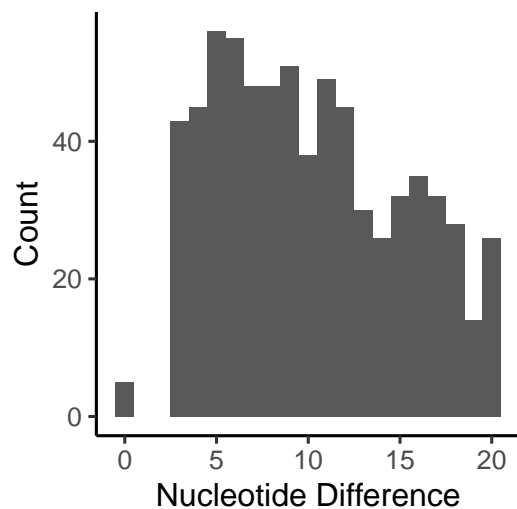
IGHV3-30*03

194 sequences assigned
No exact matches.



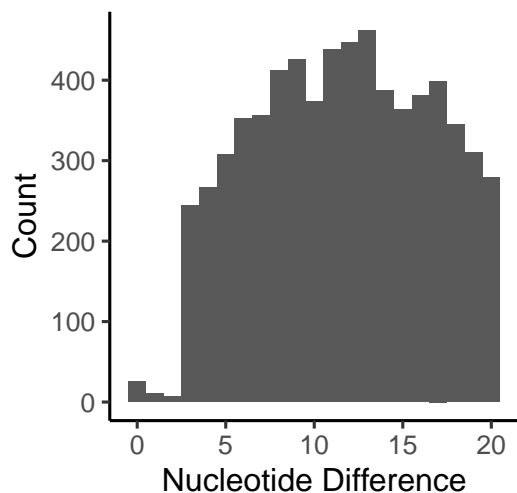
IGHV3-33*01

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



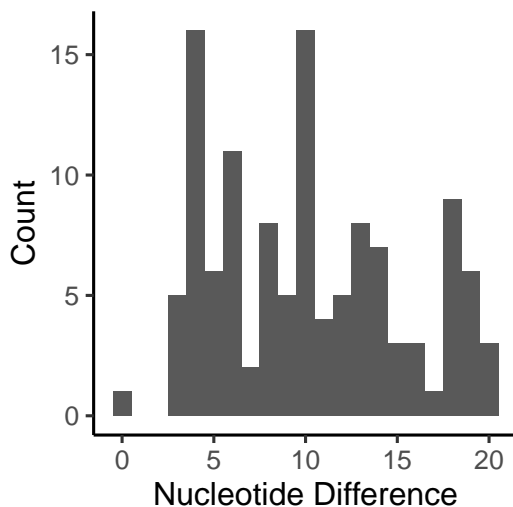
IGHV3-23*01_04

7991 sequences assigned
26 (0.3%) exact matches, in which:
23 unique CDR3
5 unique J



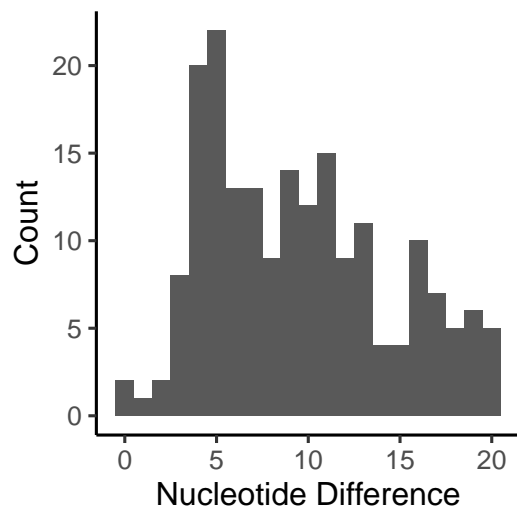
IGHV3-30*04

154 sequences assigned
1 (0.6%) exact matches, in which:
1 unique CDR3
1 unique J



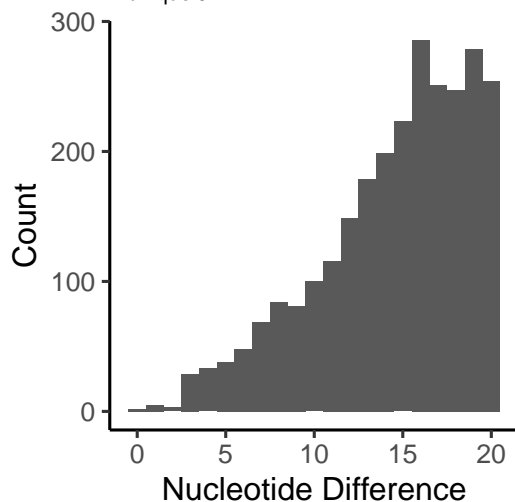
IGHV3-43*02

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



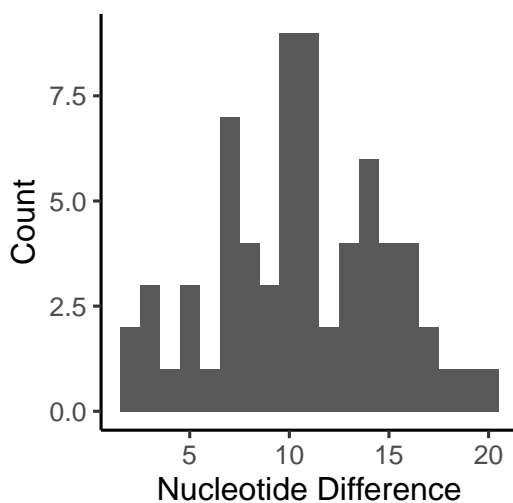
IGHV3-48*01

4095 sequences assigned
2 (0%) exact matches, in which:
2 unique CDR3
2 unique J



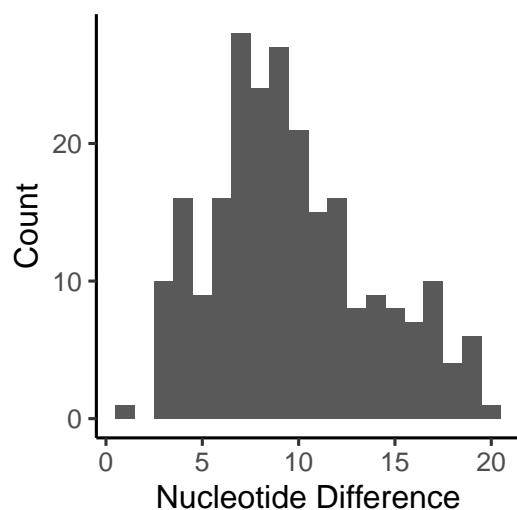
IGHV3-49*03_05

99 sequences assigned
No exact matches.



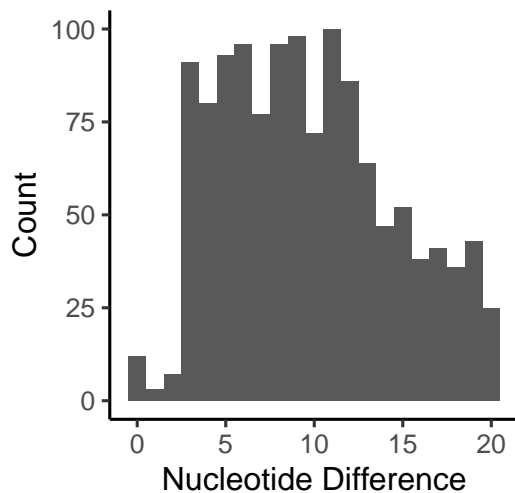
IGHV3-64*01

268 sequences assigned
No exact matches.



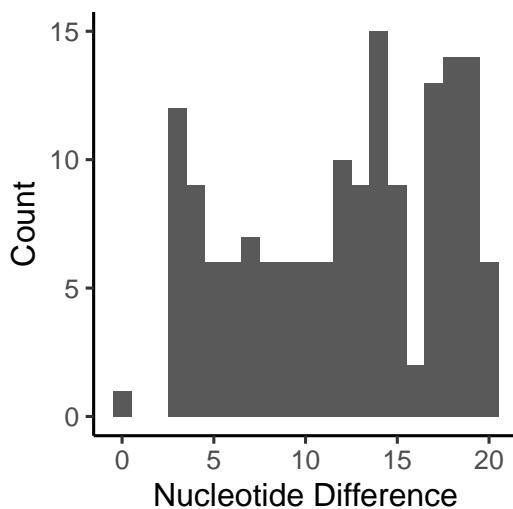
IGHV3-48*03

1396 sequences assigned
12 (0.9%) exact matches, in which:
10 unique CDR3
1 unique J



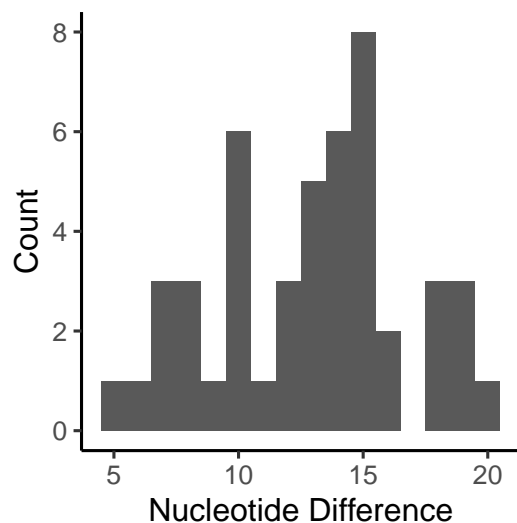
IGHV3-53*04

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



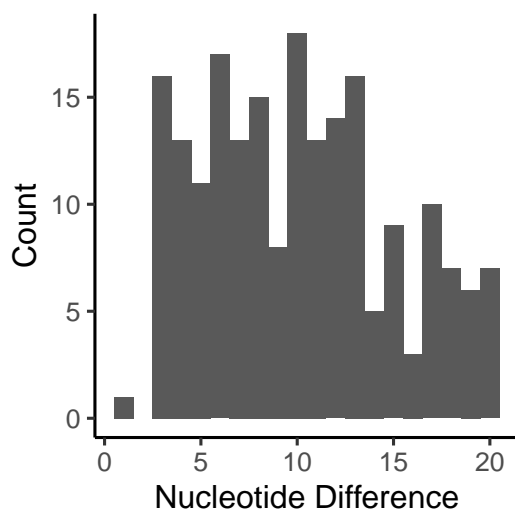
IGHV3-64*02_07

105 sequences assigned
No exact matches.



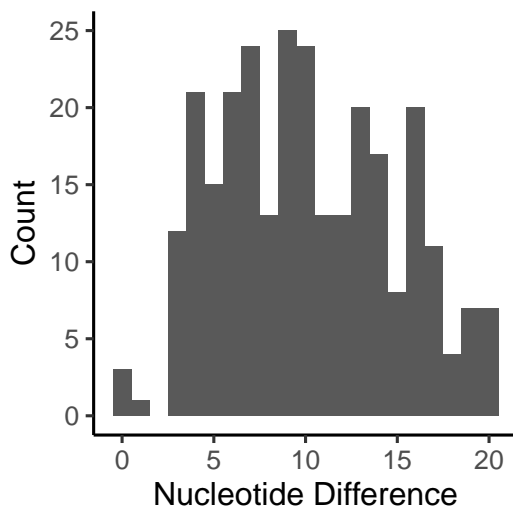
IGHV3-49*04

228 sequences assigned
No exact matches.



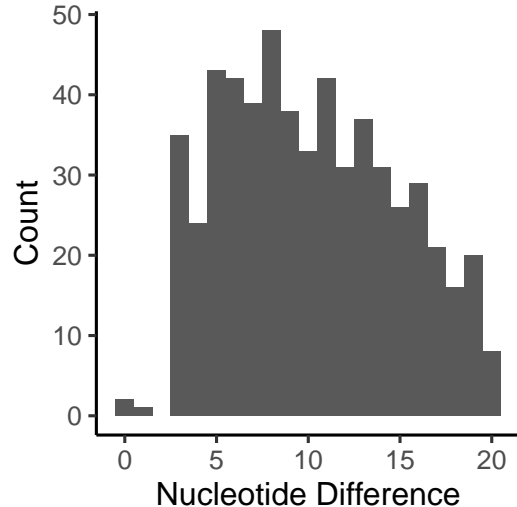
IGHV3-53*01_02

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



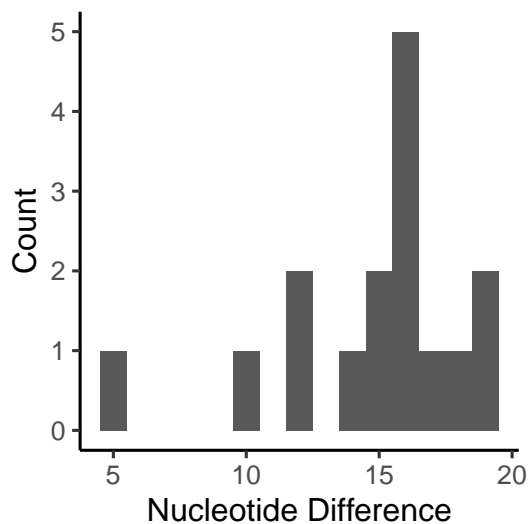
IGHV3-66*02

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



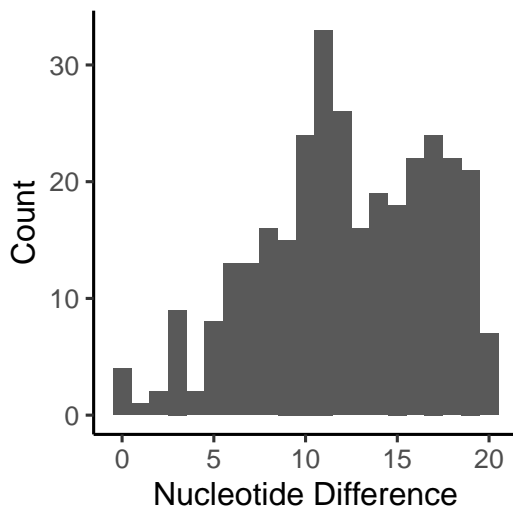
IGHV3-69-1*01

104 sequences assigned
No exact matches.



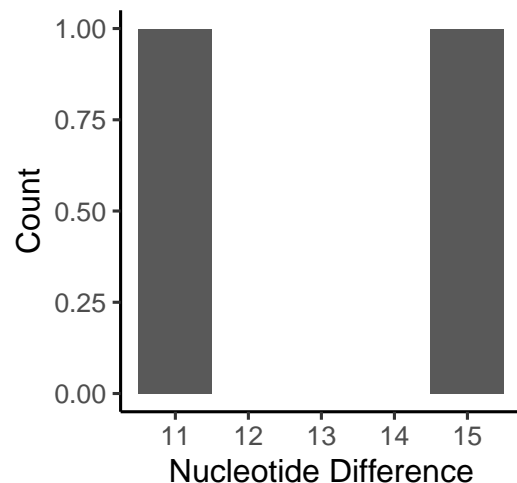
IGHV3-73*01_02

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



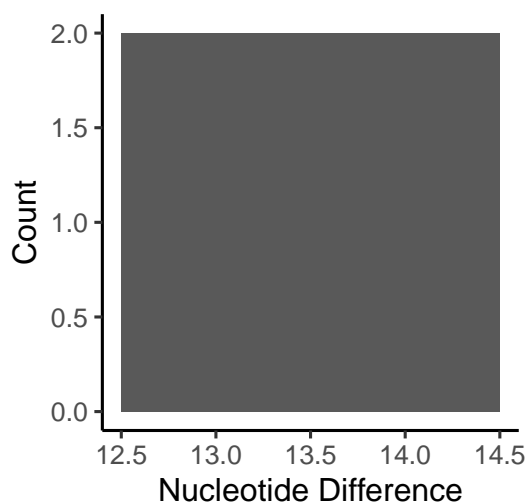
IGHV3-43D*03

3 sequences assigned
No exact matches.



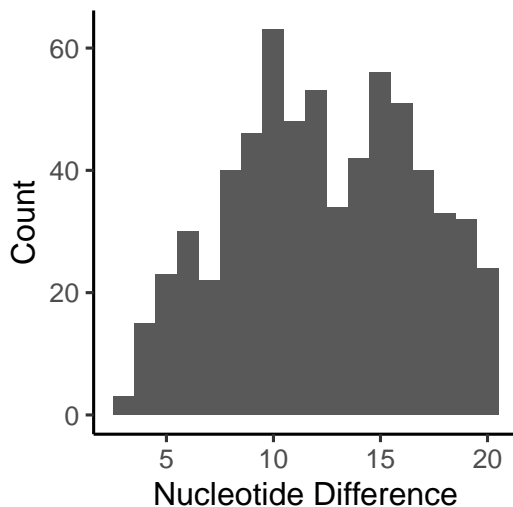
IGHV3-69-1*02

16 sequences assigned
No exact matches.



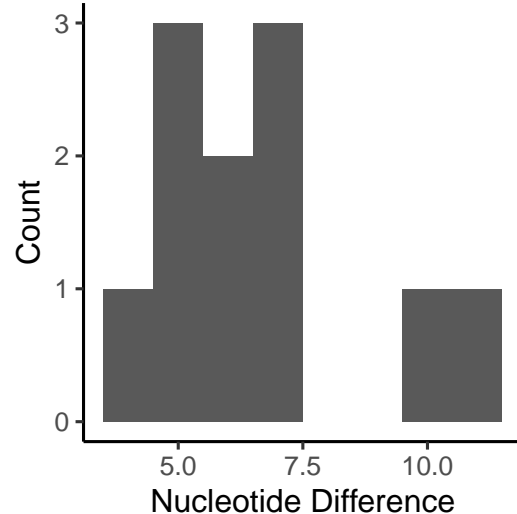
IGHV3-74*03

801 sequences assigned
No exact matches.



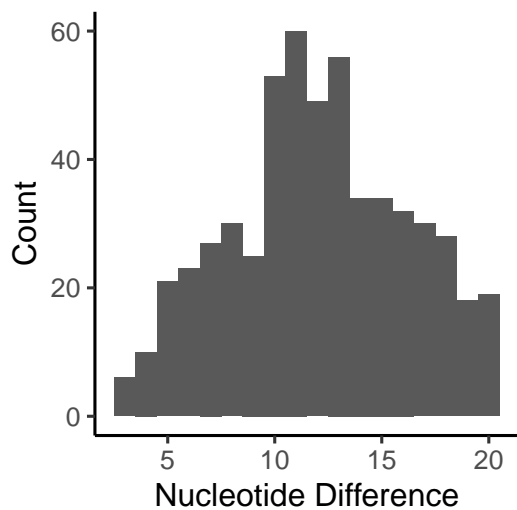
IGHV3-43D*04

12 sequences assigned
No exact matches.



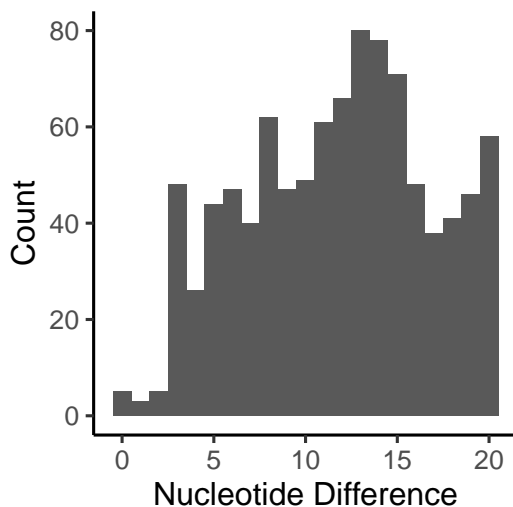
IGHV3-72*01

609 sequences assigned
No exact matches.



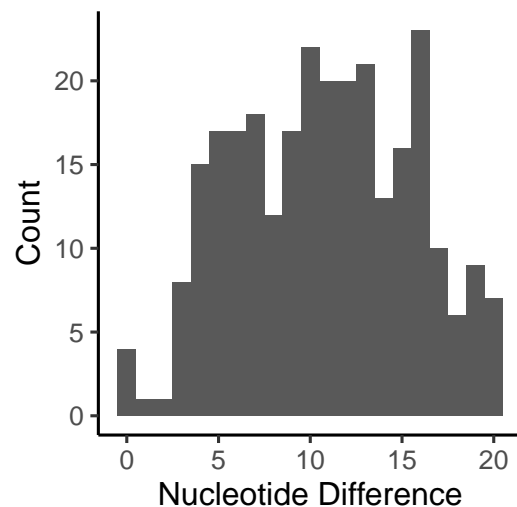
IGHV3-74*01_02

1093 sequences assigned
5 (0.5%) exact matches, in which:
5 unique CDR3
3 unique J



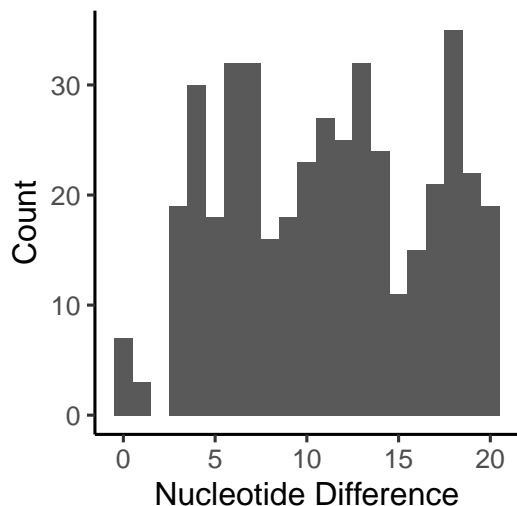
IGHV4-4*07

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



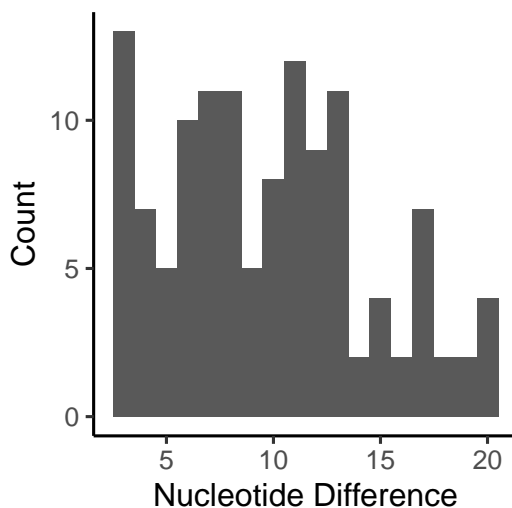
IGHV4-4*02_03

495 sequences assigned
7 (1.4%) exact matches, in which:
7 unique CDR3
4 unique J



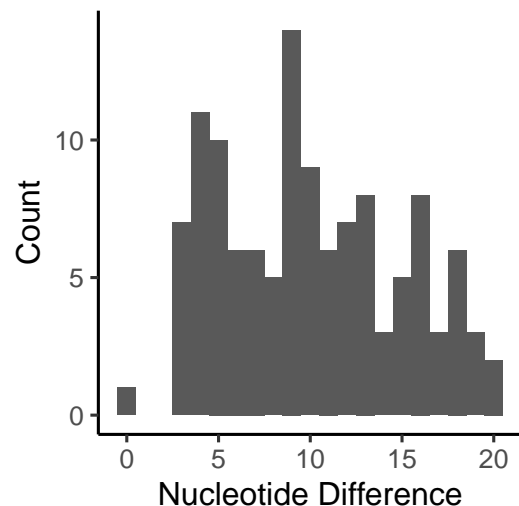
IGHV4-30-2*01

143 sequences assigned
No exact matches.



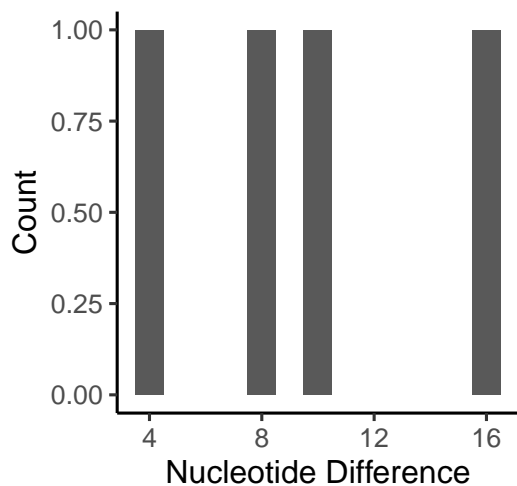
IGHV4-38-2*01

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



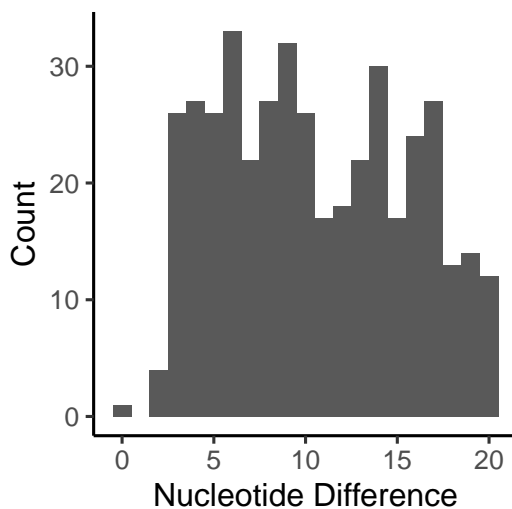
IGHV4-28*01_07

4 sequences assigned
No exact matches.



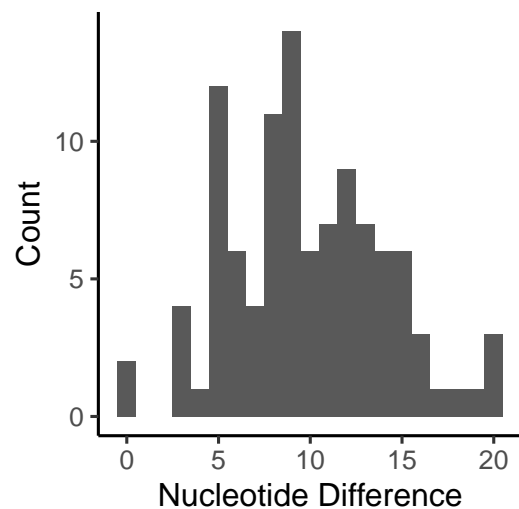
IGHV4-31*02

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



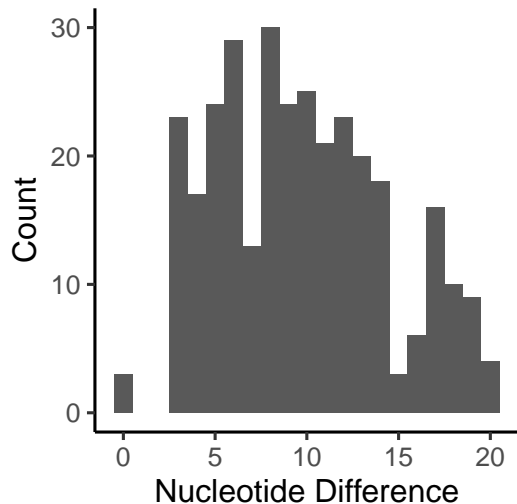
IGHV4-38-2*02

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



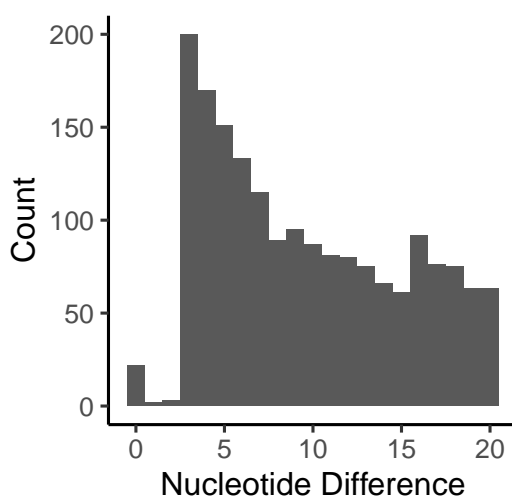
IGHV4-30-4*01

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



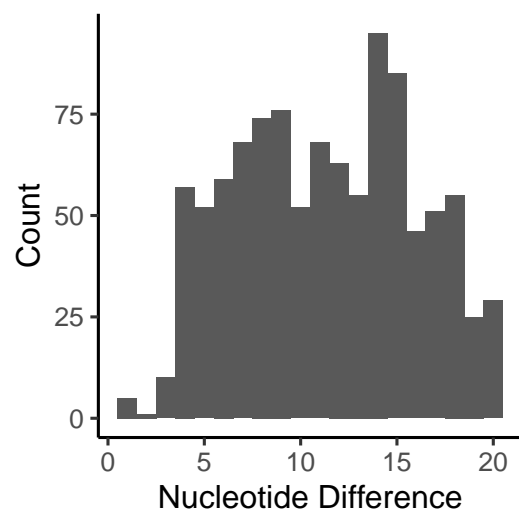
IGHV4-34*01_02

2325 sequences assigned
22 (0.9%) exact matches, in which:
19 unique CDR3
5 unique J



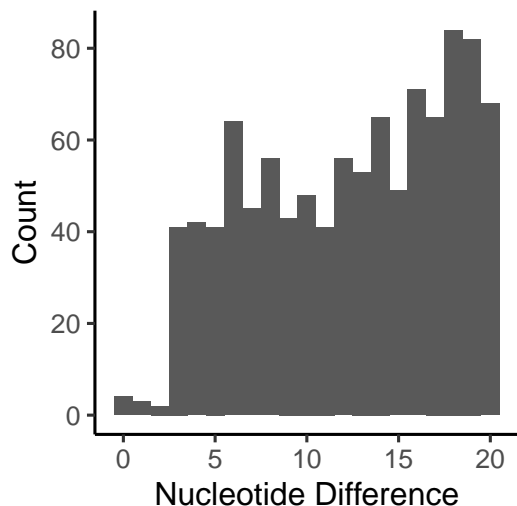
IGHV4-39*02

1801 sequences assigned
No exact matches.



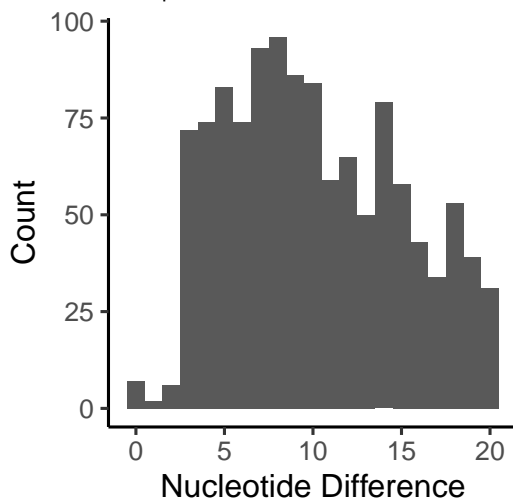
IGHV4-39*07

1926 sequences assigned
4 (0.2%) exact matches, in which:
4 unique CDR3
3 unique J



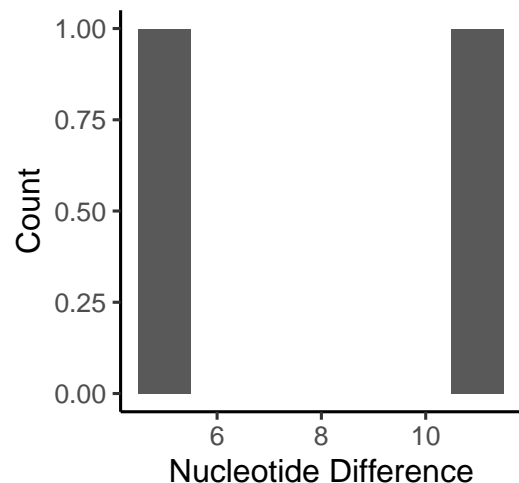
IGHV4-59*01_07

1358 sequences assigned
7 (0.5%) exact matches, in which:
7 unique CDR3
4 unique J



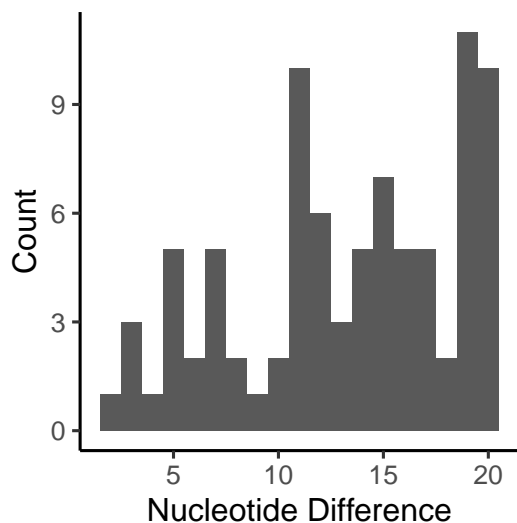
IGHV4/OR15-8*01

2 sequences assigned
No exact matches.



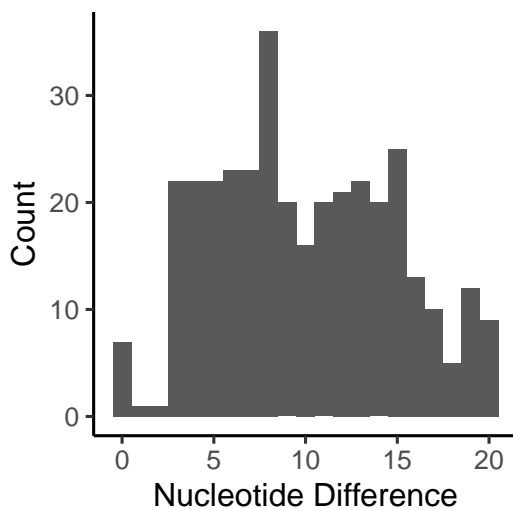
IGHV4-59*02

125 sequences assigned
No exact matches.



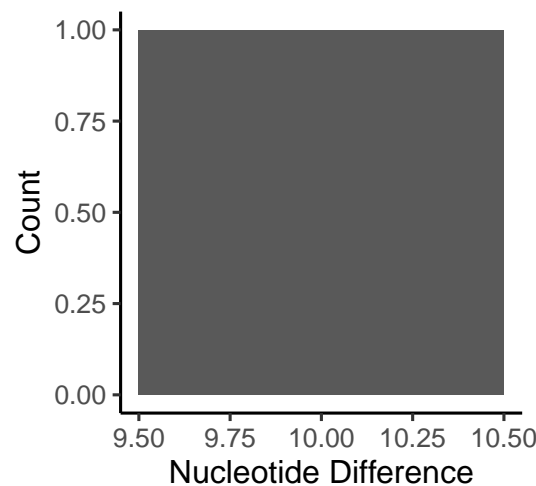
IGHV4-61*01

414 sequences assigned
7 (1.7%) exact matches, in which:
6 unique CDR3
3 unique J



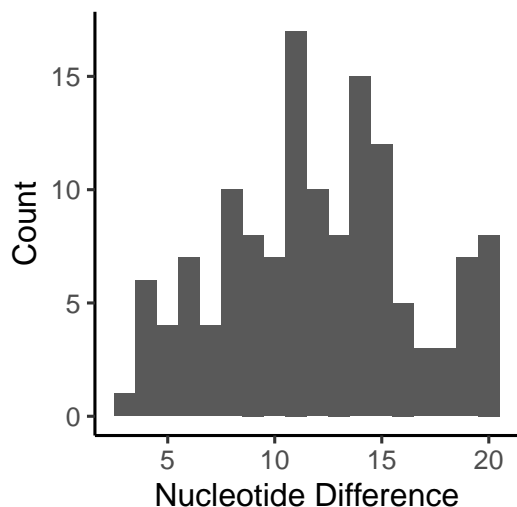
IGHV4/OR15-8*02

2 sequences assigned
No exact matches.



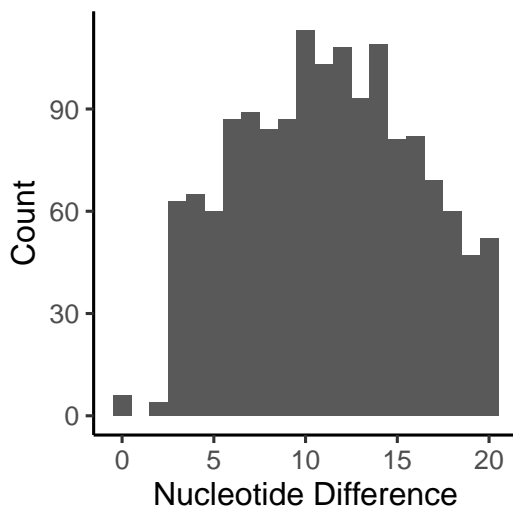
IGHV4-59*11

174 sequences assigned
No exact matches.



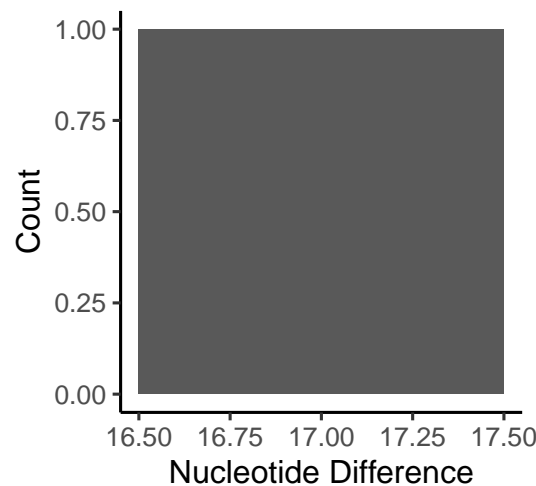
IGHV4-61*02

1657 sequences assigned
6 (0.4%) exact matches, in which:
5 unique CDR3
3 unique J



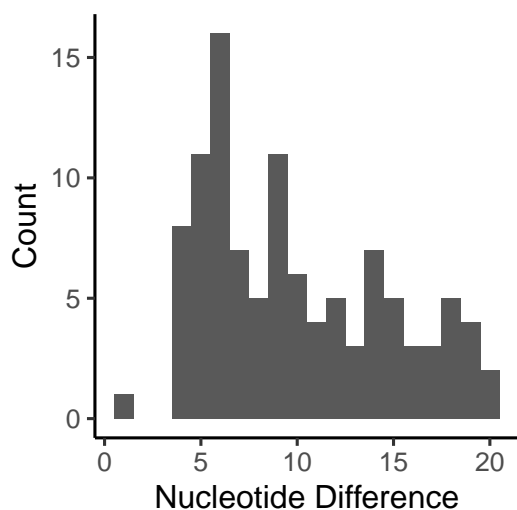
IGHV4/OR15-8*03

1 sequences assigned
No exact matches.



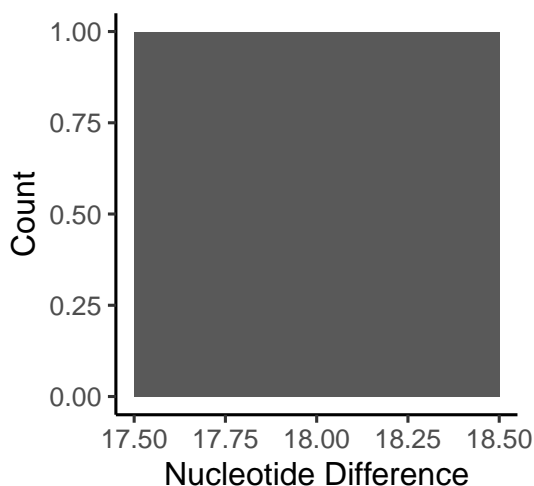
IGHV5-51*07

114 sequences assigned
No exact matches.



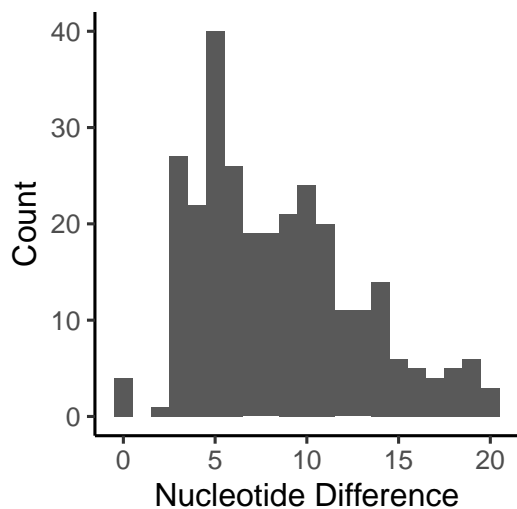
IGHV3/OR16-9*01

1 sequences assigned
No exact matches.



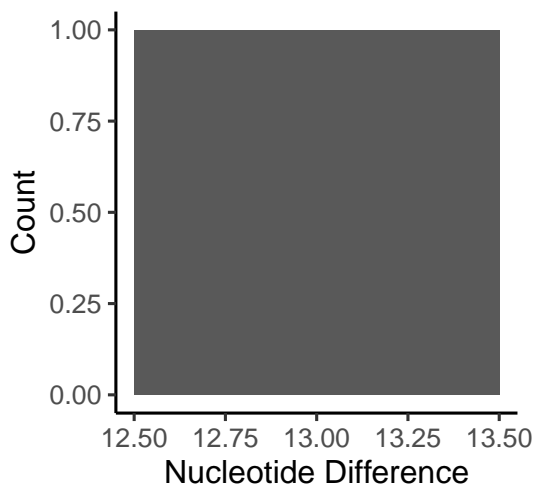
IGHV5-51*01_03

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



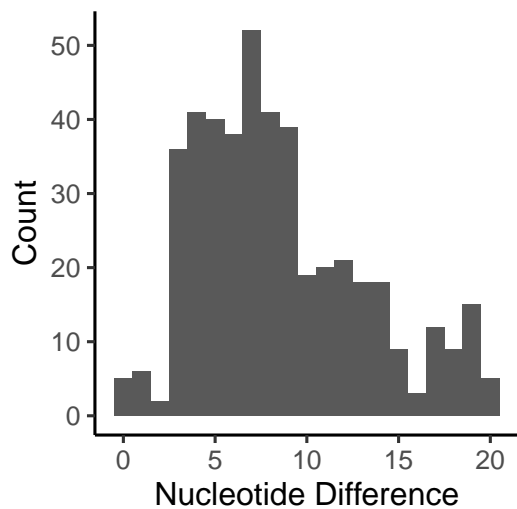
IGHV3/OR16-13*01

1 sequences assigned
No exact matches.



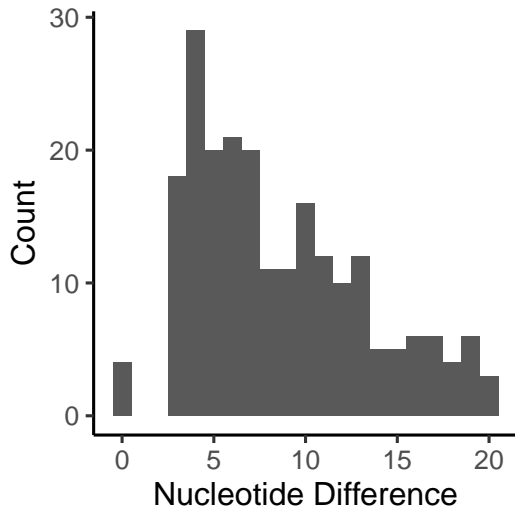
IGHV6-1*01_02

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

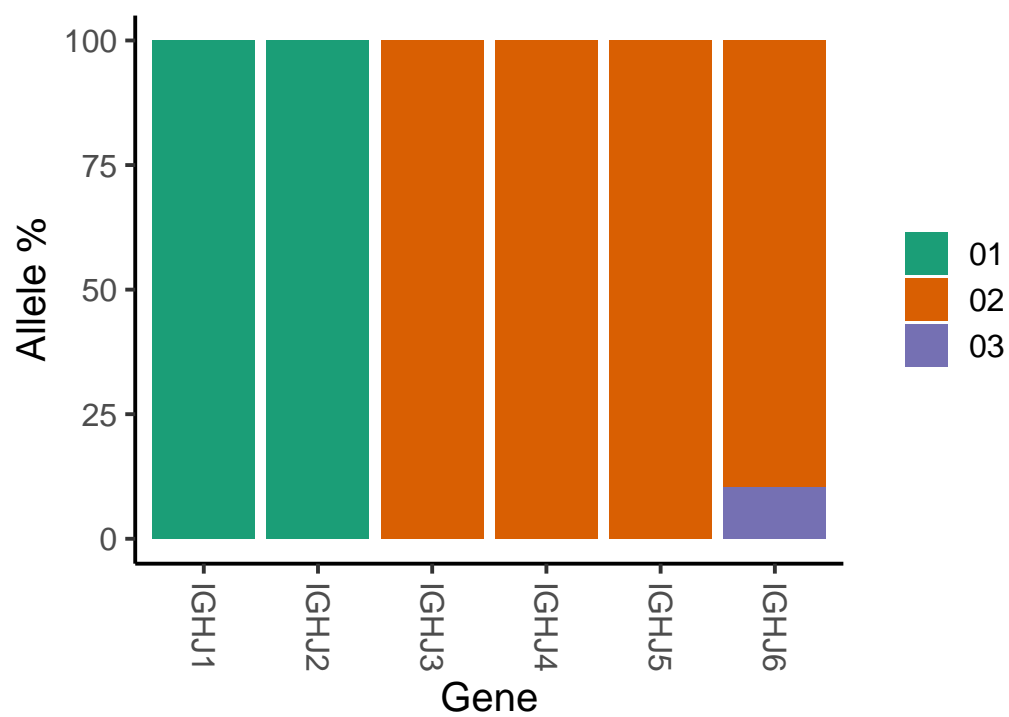


IGHV7-4-1*02

260 sequences assigned
4 (1.5%) exact matches, in which:
4 unique CDR3
2 unique J



Allele Usage



Warning – no inferred sequences found.