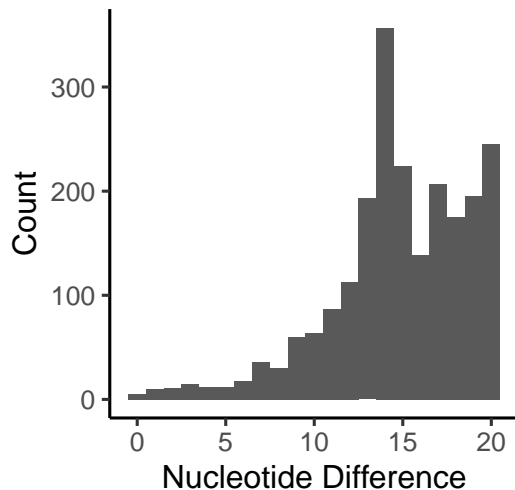


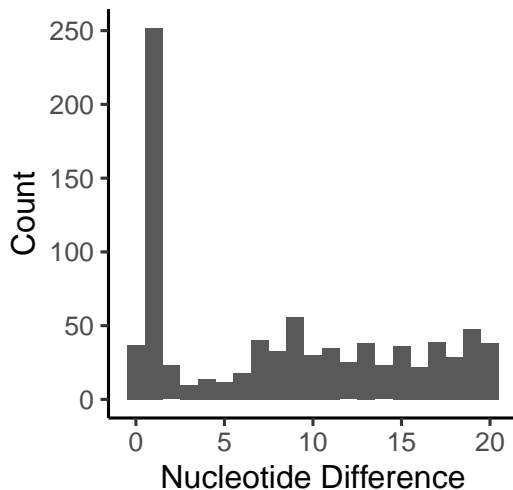
IGHV1-2*02

4377 sequences assigned
5 (0.1%) exact matches, in which:
4 unique CDR3
2 unique J



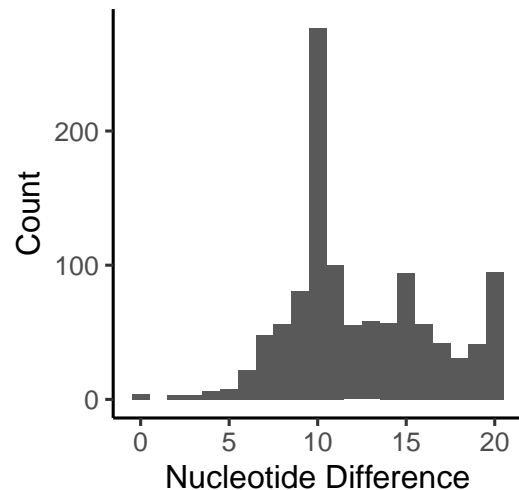
IGHV1-8*01

1148 sequences assigned
37 (3.2%) exact matches, in which:
16 unique CDR3
3 unique J



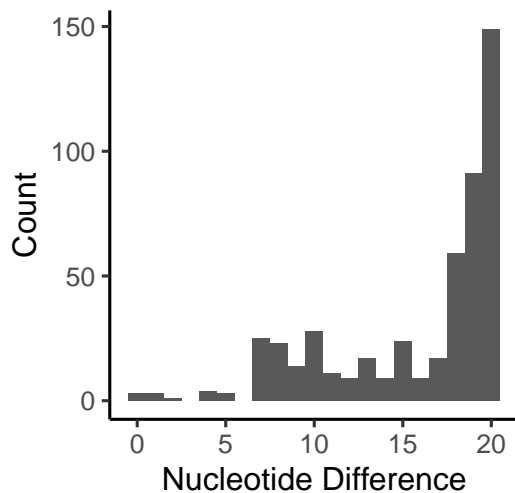
IGHV1-24*01

1371 sequences assigned
4 (0.3%) exact matches, in which:
4 unique CDR3
3 unique J



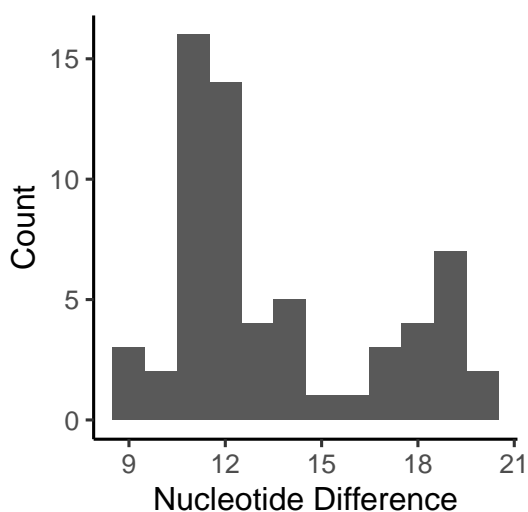
IGHV1-3*01

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



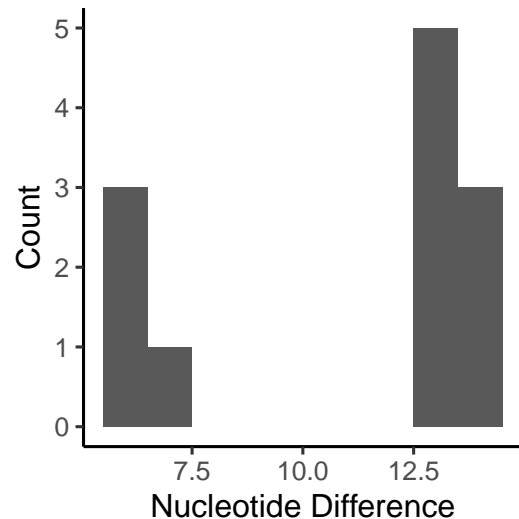
IGHV1-8*02

138 sequences assigned
No exact matches.



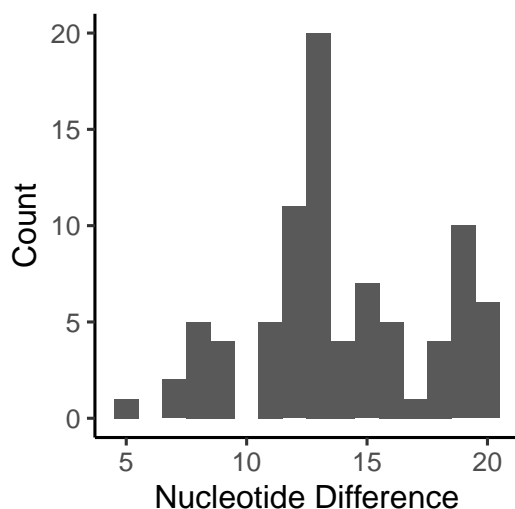
IGHV1-45*02

35 sequences assigned
No exact matches.



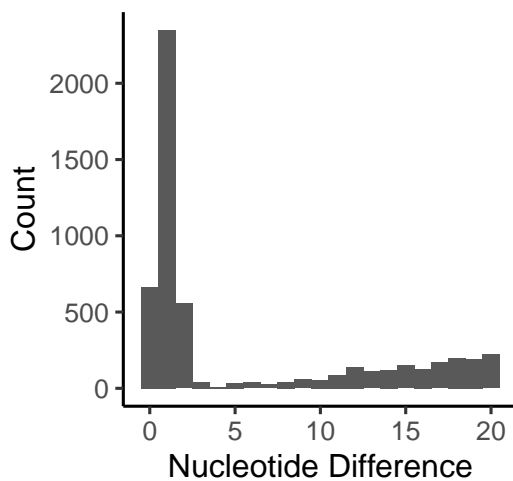
IGHV1-3*04

189 sequences assigned
No exact matches.



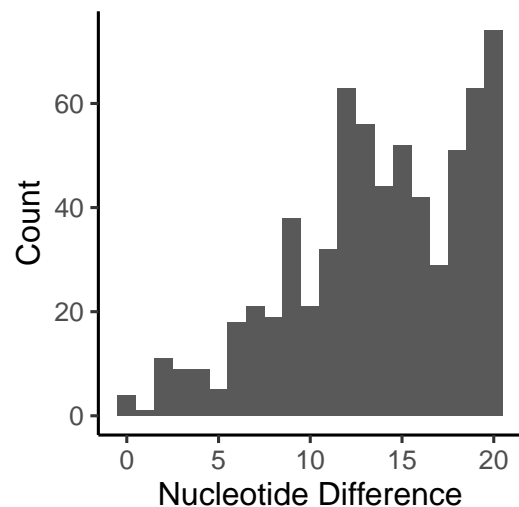
IGHV1-18*01

7473 sequences assigned
665 (8.9%) exact matches, in which:
128 unique CDR3
4 unique J



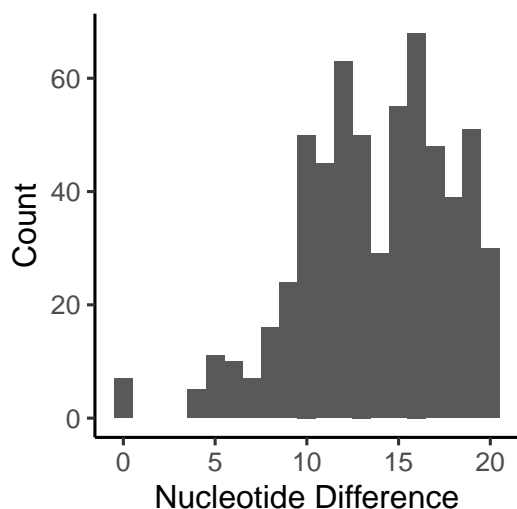
IGHV1-46*01

1756 sequences assigned
4 (0.2%) exact matches, in which:
2 unique CDR3
1 unique J



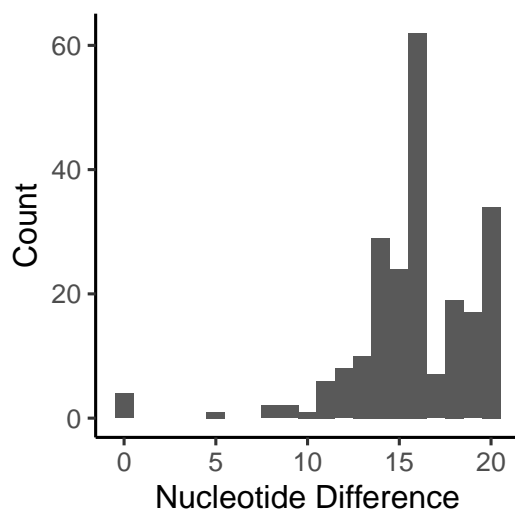
IGHV1-46*03

1184 sequences assigned
7 (0.6%) exact matches, in which:
3 unique CDR3
2 unique J



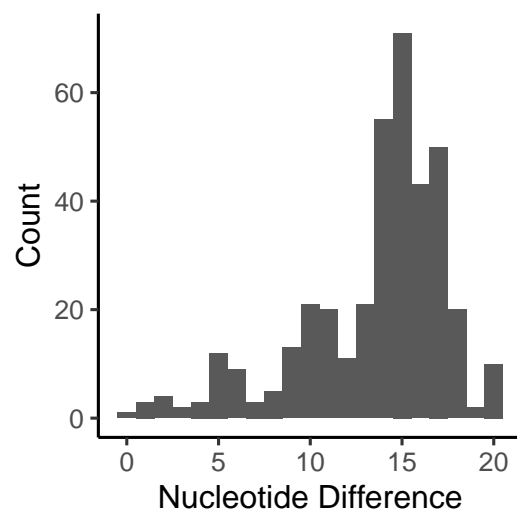
IGHV1-69*02

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



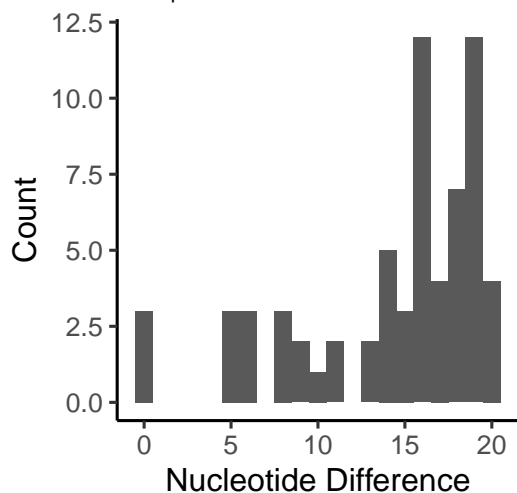
IGHV2-26*01

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



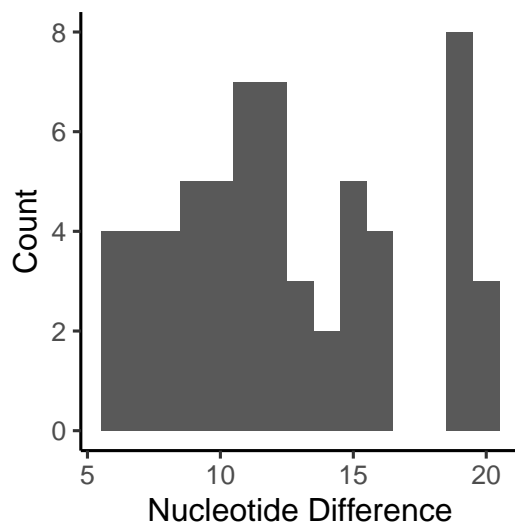
IGHV1-58*01

105 sequences assigned
3 (2.9%) exact matches, in which:
1 unique CDR3
1 unique J



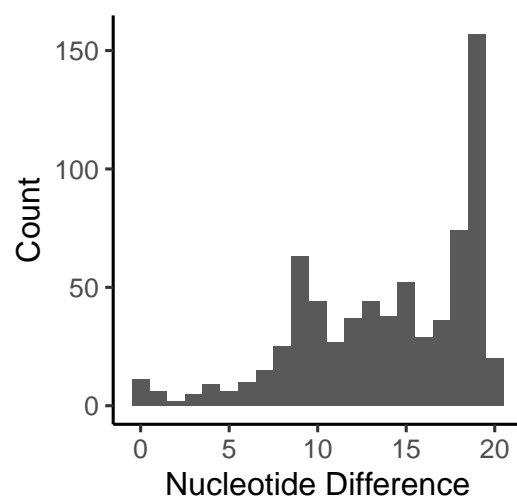
IGHV2-5*01

68 sequences assigned
No exact matches.



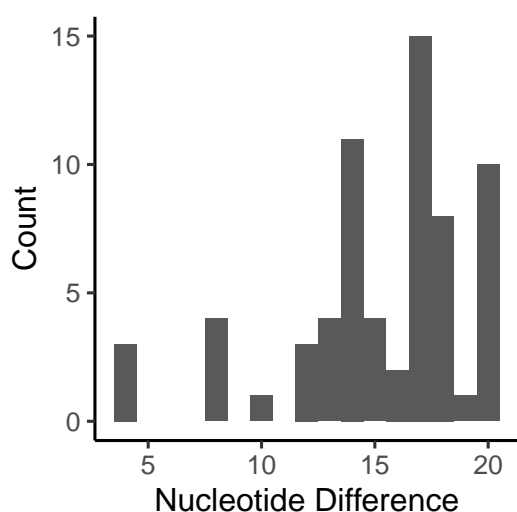
IGHV2-70*01

838 sequences assigned
11 (1.3%) exact matches, in which:
6 unique CDR3
4 unique J



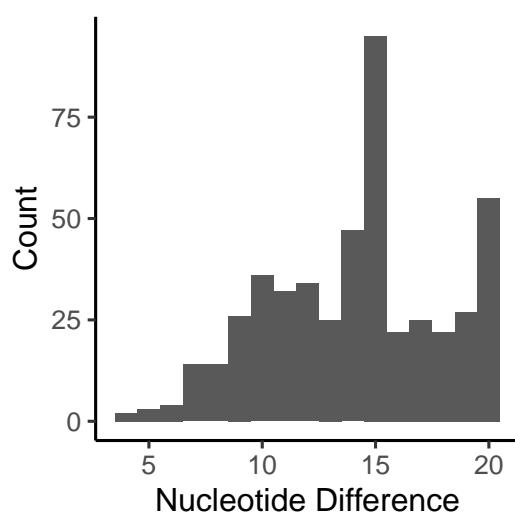
IGHV1-58*02

283 sequences assigned
No exact matches.



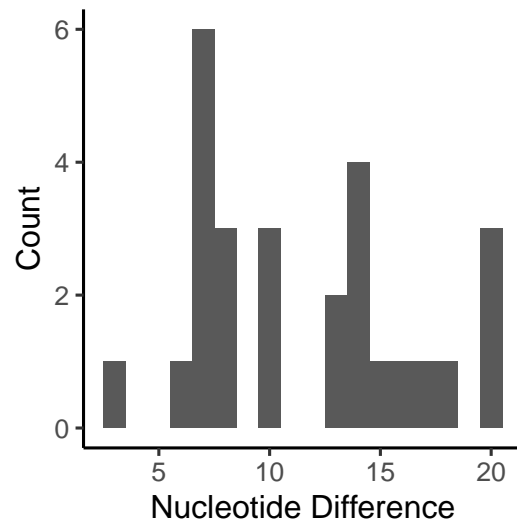
IGHV2-5*02

859 sequences assigned
No exact matches.



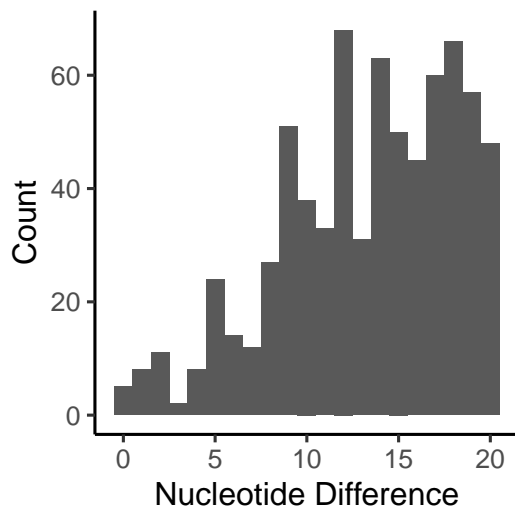
IGHV2-70D*04

27 sequences assigned
No exact matches.



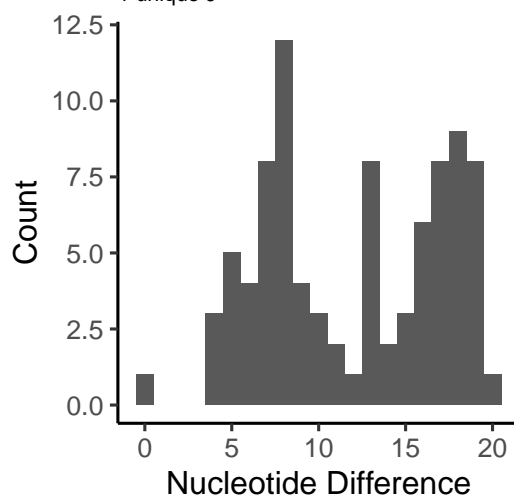
IGHV3-7*01

1073 sequences assigned
5 (0.5%) exact matches, in which:
4 unique CDR3
2 unique J



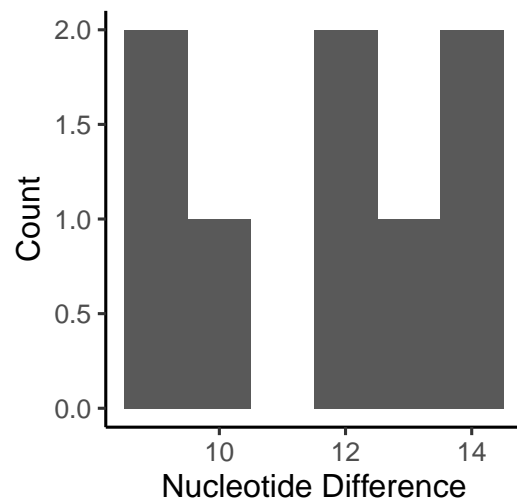
IGHV3-13*01

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



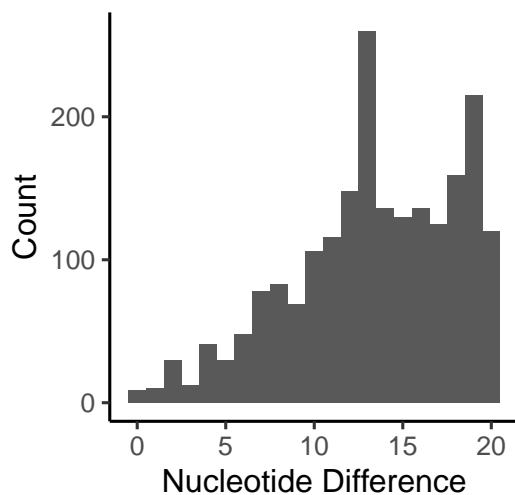
IGHV3-20*04

10 sequences assigned
No exact matches.



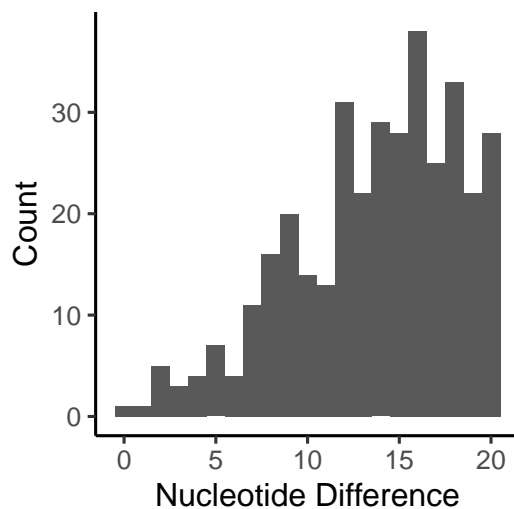
IGHV3-9*01

3077 sequences assigned
9 (0.3%) exact matches, in which:
7 unique CDR3
2 unique J



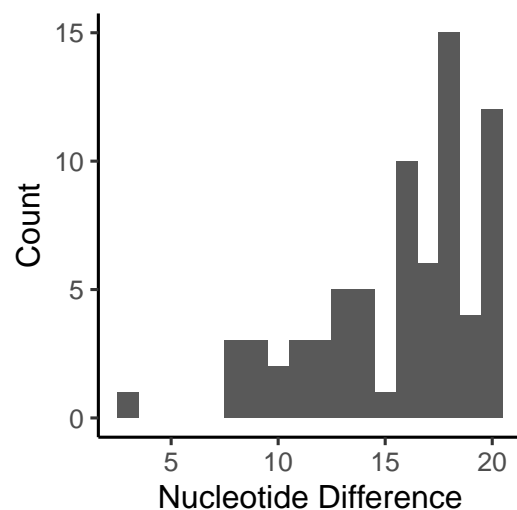
IGHV3-15*01

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



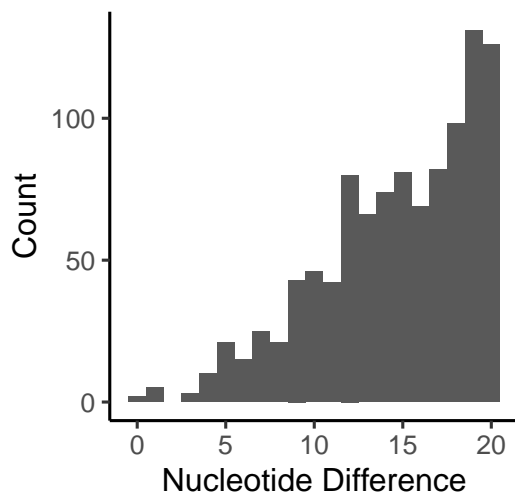
IGHV3-21*06

179 sequences assigned
No exact matches.



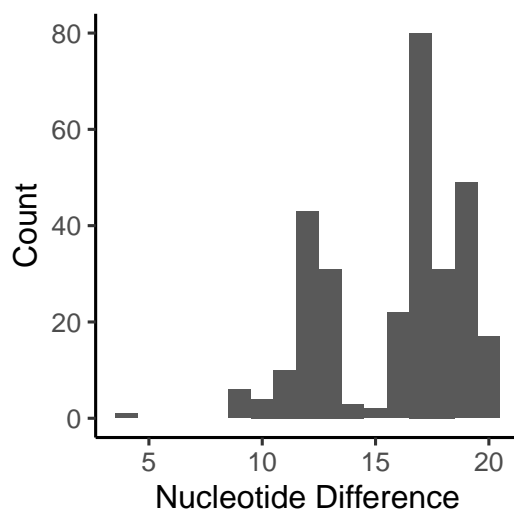
IGHV3-11*01

1887 sequences assigned
2 (0.1%) exact matches, in which:
2 unique CDR3
2 unique J



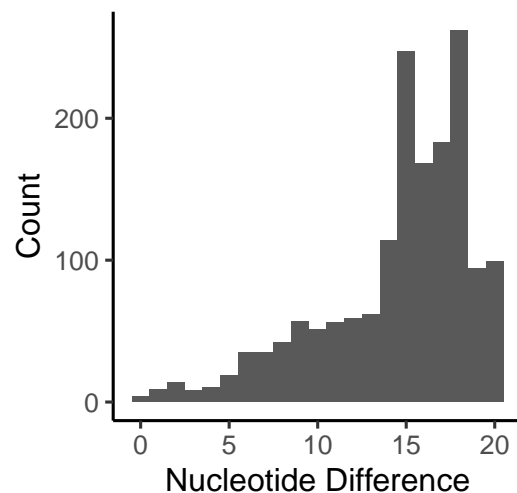
IGHV3-20*01

325 sequences assigned
No exact matches.



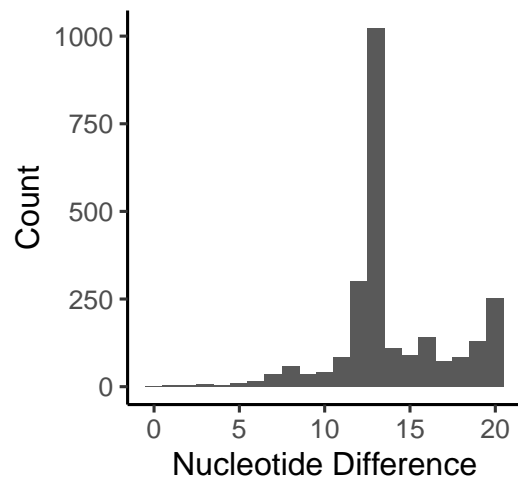
IGHV3-30-3*01

3227 sequences assigned
4 (0.1%) exact matches, in which:
3 unique CDR3
2 unique J



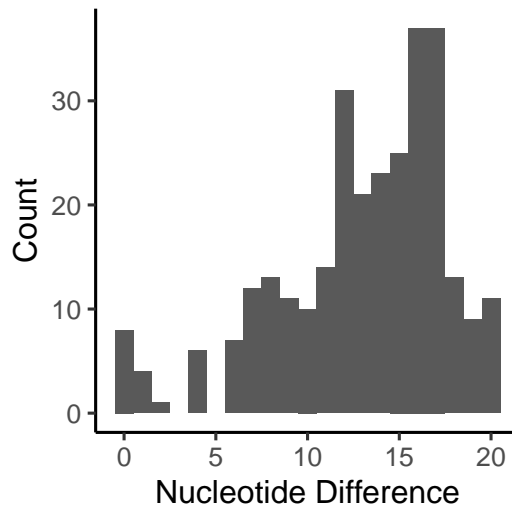
IGHV3-33*01

2953 sequences assigned
1 (0%) exact matches, in which:
1 unique CDR3
1 unique J



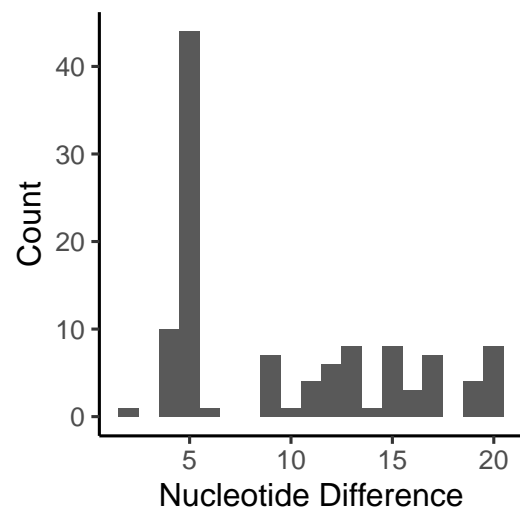
IGHV3-48*02

373 sequences assigned
8 (2.1%) exact matches, in which:
4 unique CDR3
2 unique J



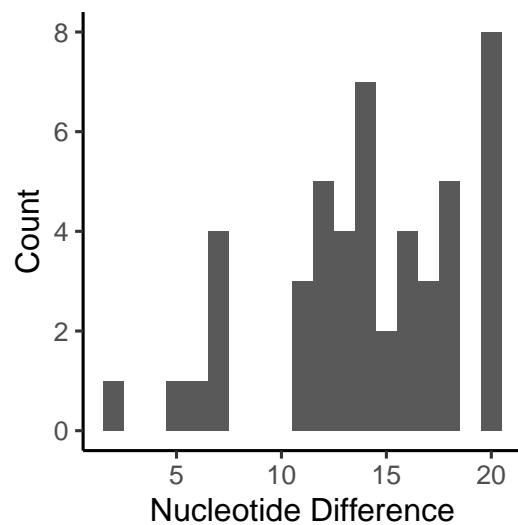
IGHV3-64*01

161 sequences assigned
No exact matches.



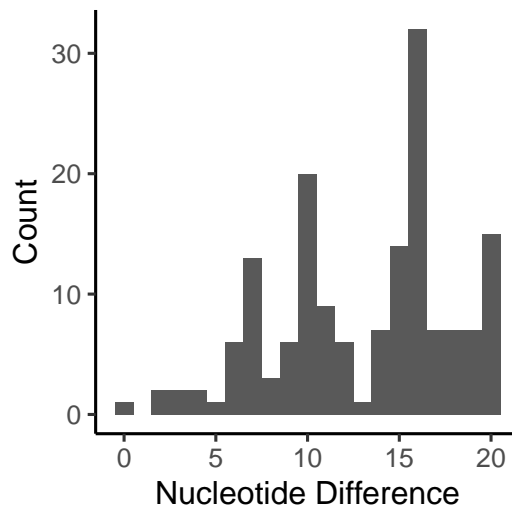
IGHV3-43*01

132 sequences assigned
No exact matches.



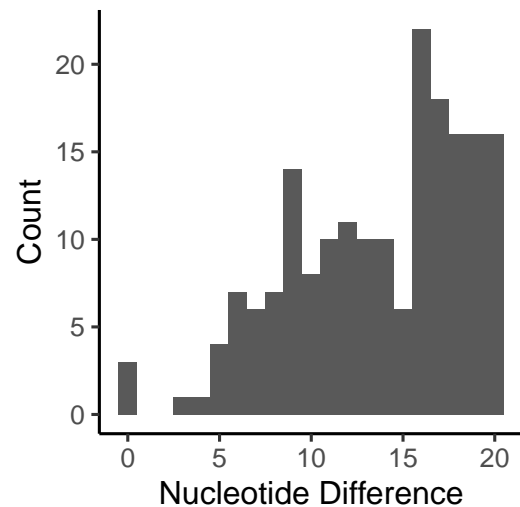
IGHV3-49*03

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



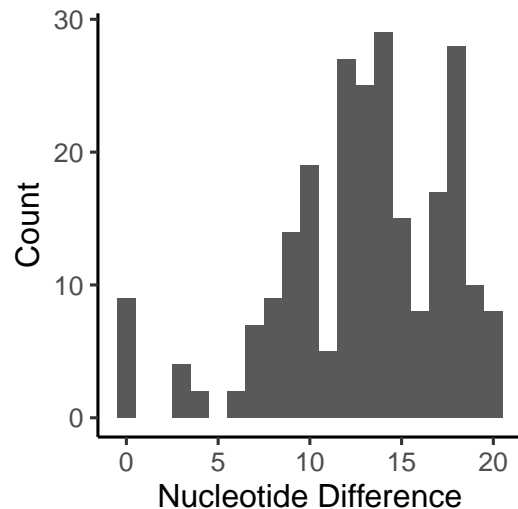
IGHV3-66*02

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



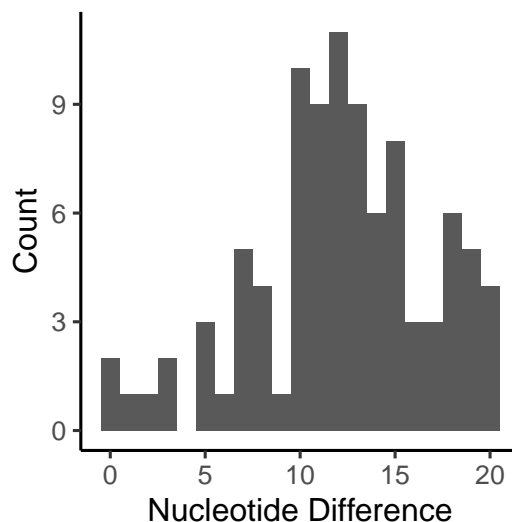
IGHV3-48*01

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



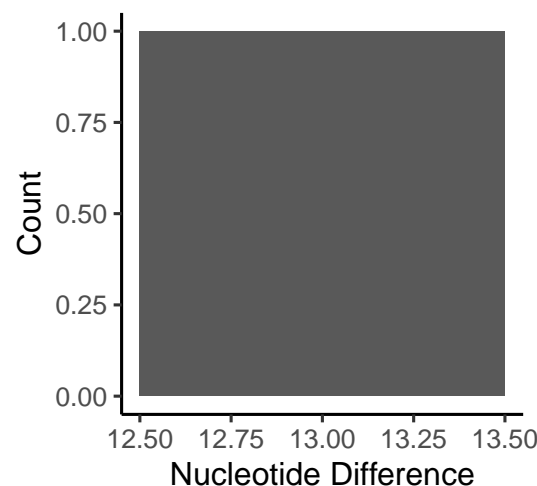
IGHV3-49*05

148 sequences assigned
2 (1.4%) exact matches, in which:
1 unique CDR3
1 unique J



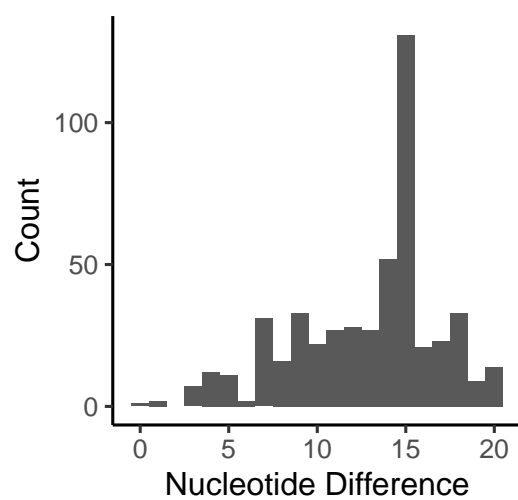
IGHV3-69-1*02

1 sequences assigned
No exact matches.



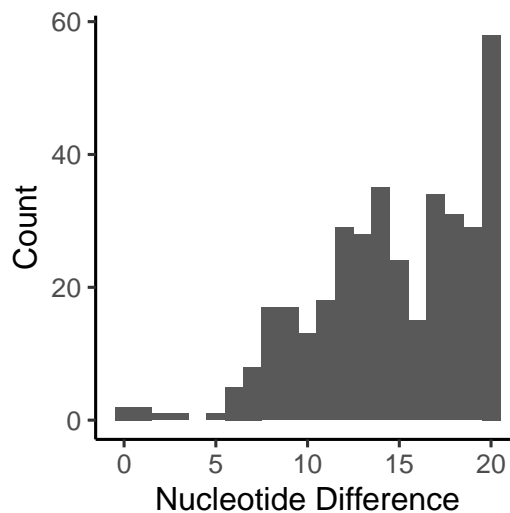
IGHV3-72*01

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



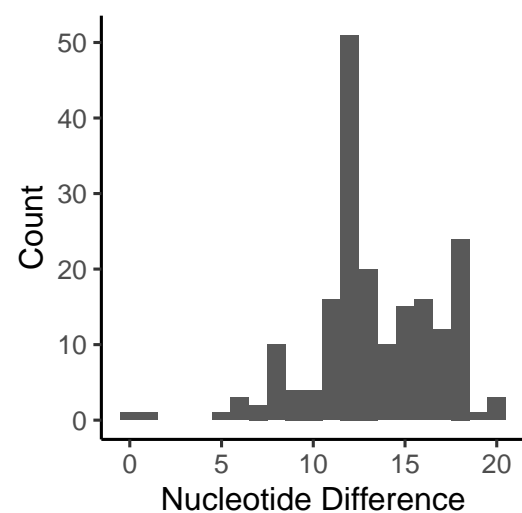
IGHV4-4*02

866 sequences assigned
2 (0.2%) exact matches, in which:
2 unique CDR3
2 unique J



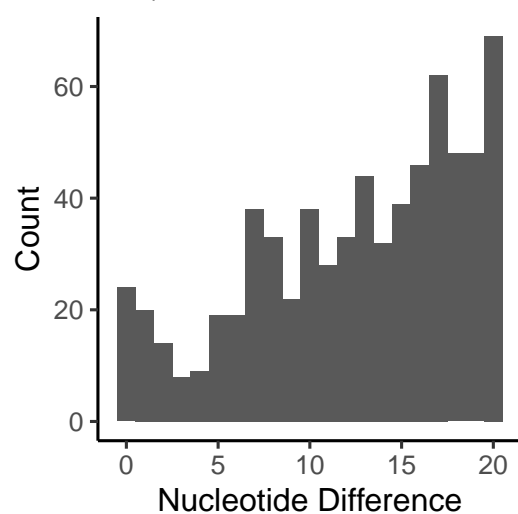
IGHV4-30-2*01

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



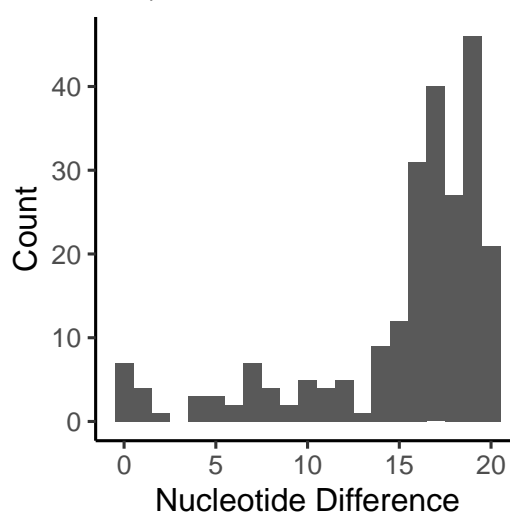
IGHV3-74*01

988 sequences assigned
24 (2.4%) exact matches, in which:
13 unique CDR3
4 unique J



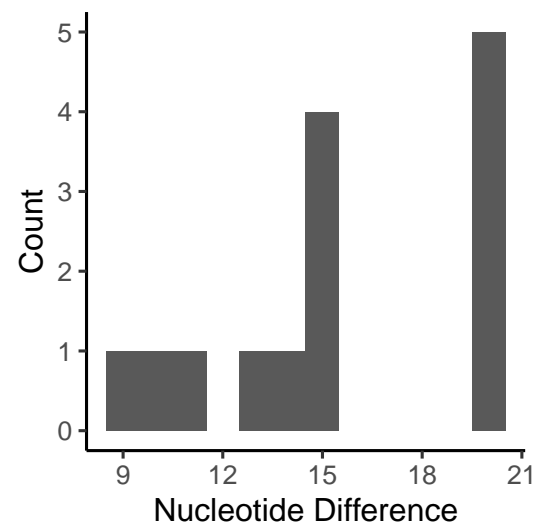
IGHV4-4*07

521 sequences assigned
7 (1.3%) exact matches, in which:
6 unique CDR3
3 unique J



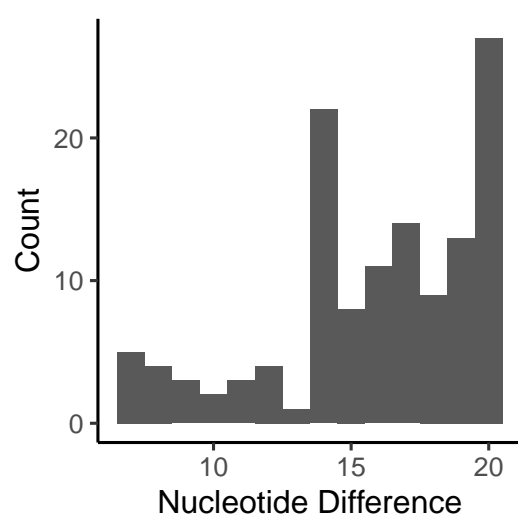
IGHV4-30-2*06

28 sequences assigned
No exact matches.



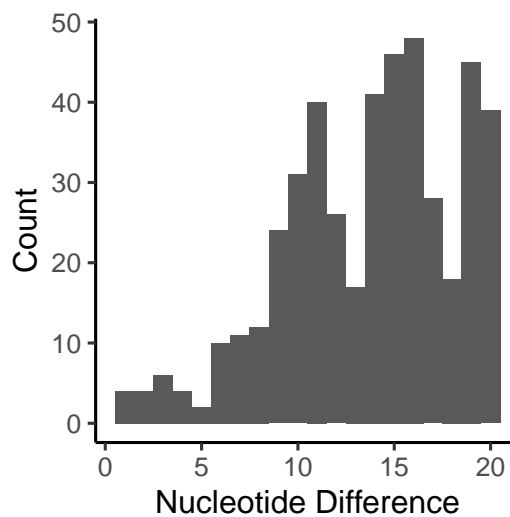
IGHV3-74*03

298 sequences assigned
No exact matches.



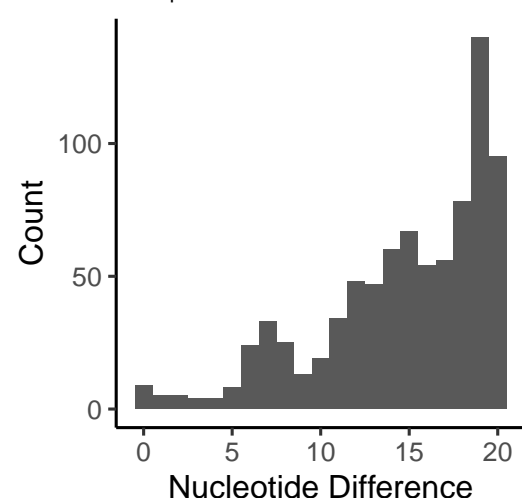
IGHV4-30-4*01

665 sequences assigned
No exact matches.



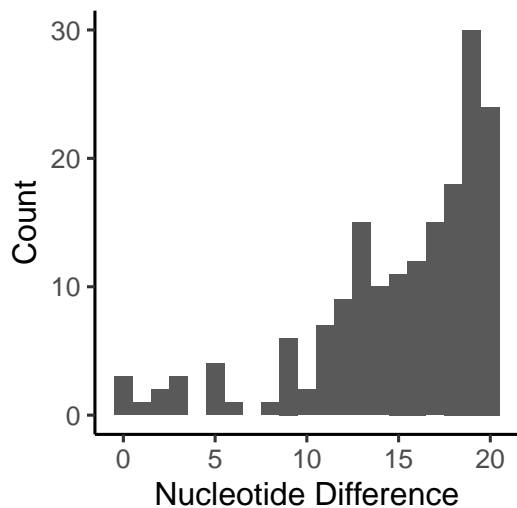
IGHV4-31*03

1260 sequences assigned
9 (0.7%) exact matches, in which:
6 unique CDR3
2 unique J



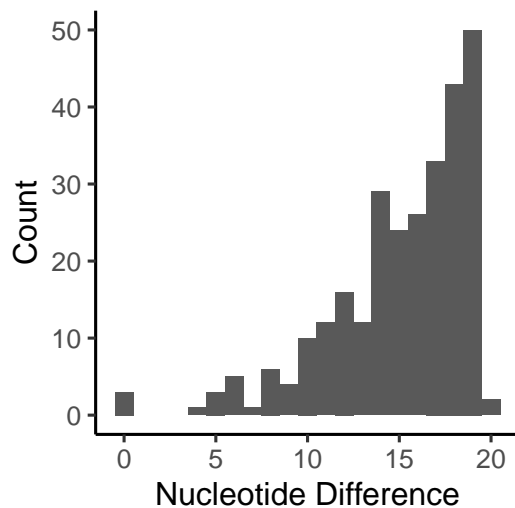
IGHV4-39*01

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



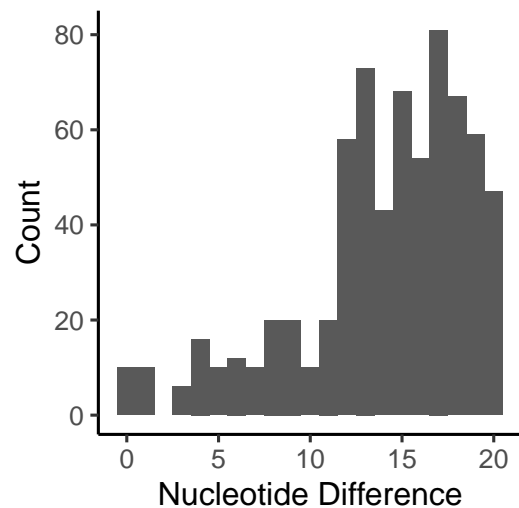
IGHV4-61*01

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



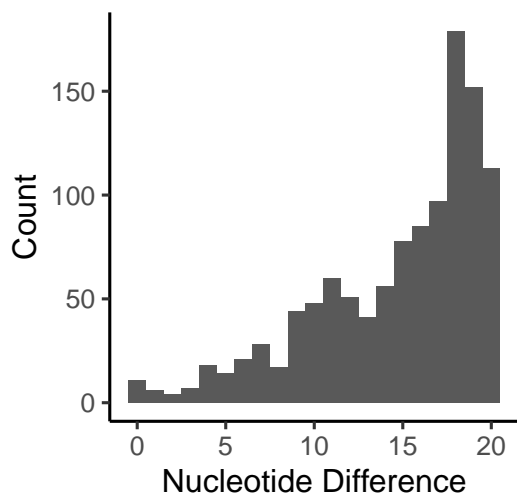
IGHV5-51*03

1244 sequences assigned
10 (0.8%) exact matches, in which:
5 unique CDR3
3 unique J



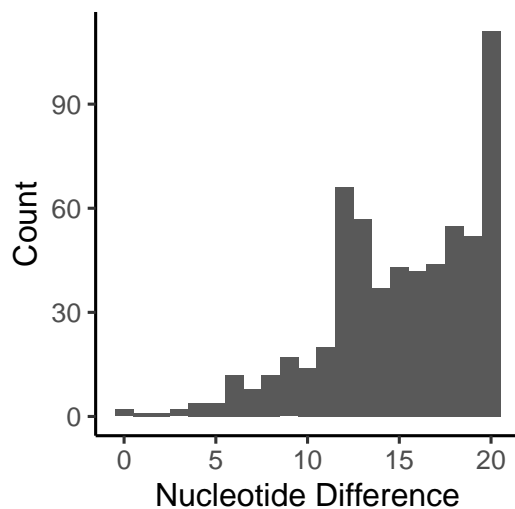
IGHV4-59*01

1761 sequences assigned
11 (0.6%) exact matches, in which:
8 unique CDR3
3 unique J



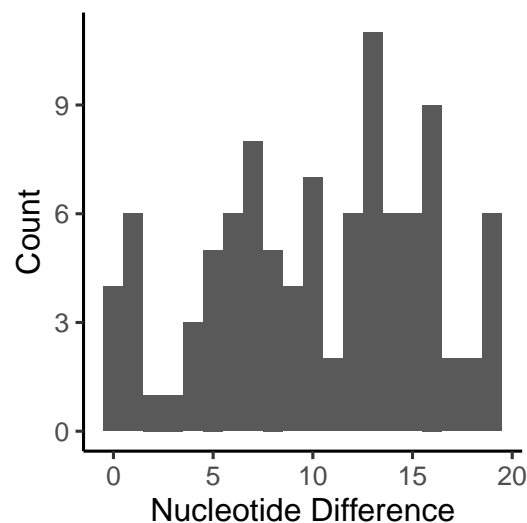
IGHV4-61*02

1272 sequences assigned
2 (0.2%) exact matches, in which:
2 unique CDR3
1 unique J



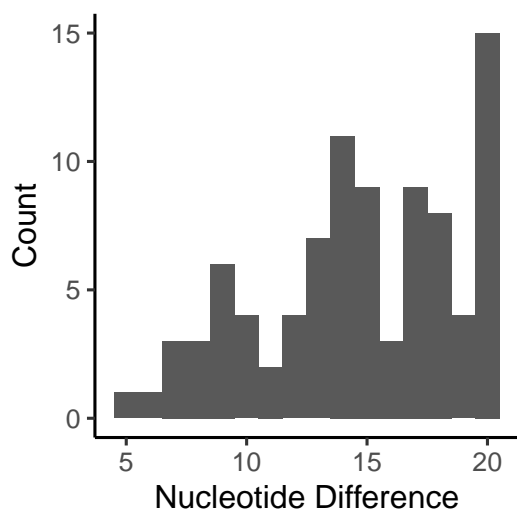
IGHV6-1*01

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



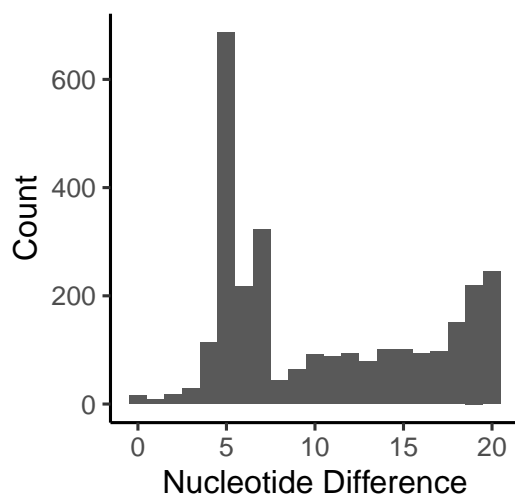
IGHV4-59*11

178 sequences assigned
No exact matches.



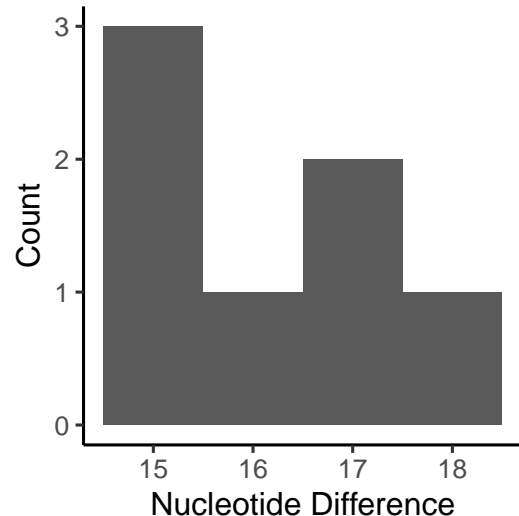
IGHV5-51*01

3632 sequences assigned
15 (0.4%) exact matches, in which:
9 unique CDR3
3 unique J



IGHV7-4-1*01

30 sequences assigned
No exact matches.



IGHV7-4-1*02

5 sequences assigned
No exact matches.

