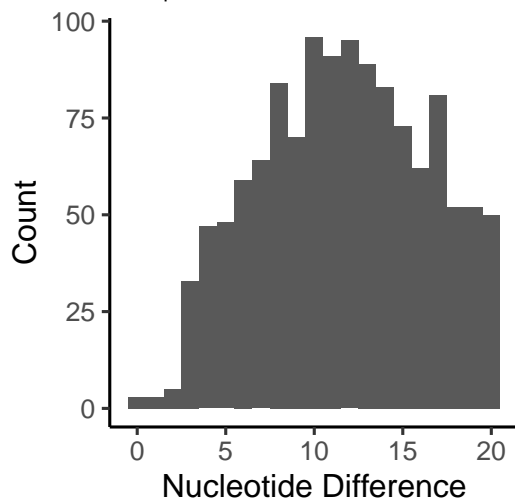


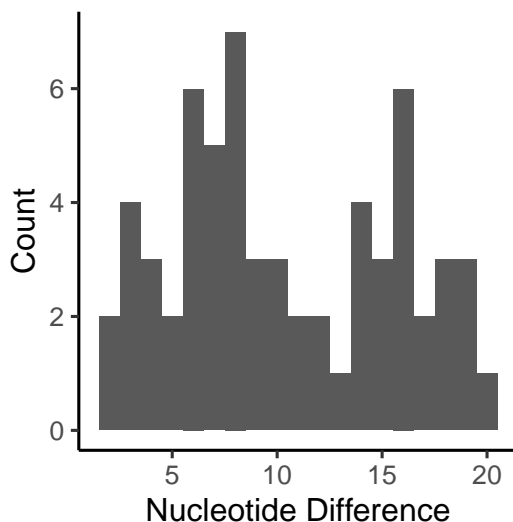
IGHV1-2*02

1549 sequences assigned
3 (0.2%) exact matches, in which:
3 unique CDR3
3 unique J



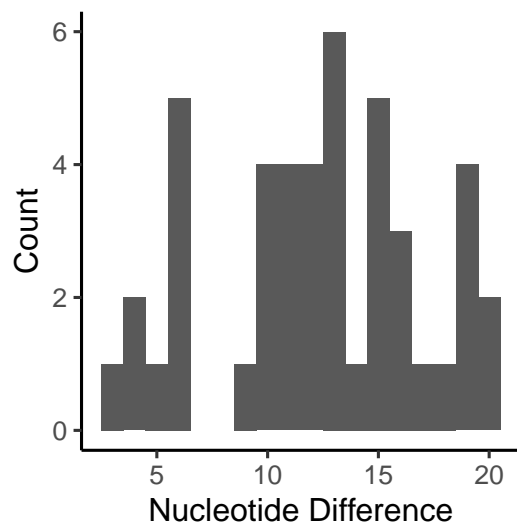
IGHV1-24*01

101 sequences assigned
No exact matches.



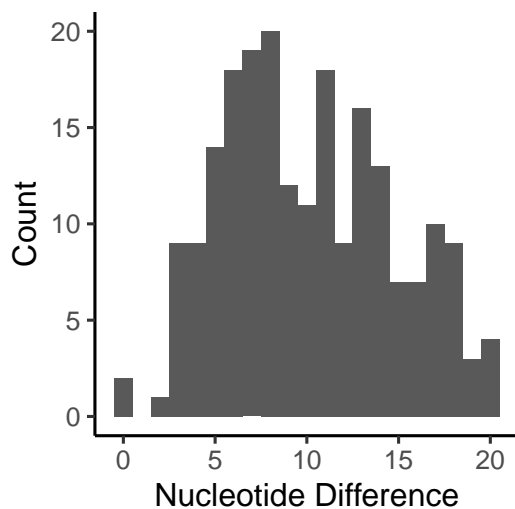
IGHV1-46*03

57 sequences assigned
No exact matches.



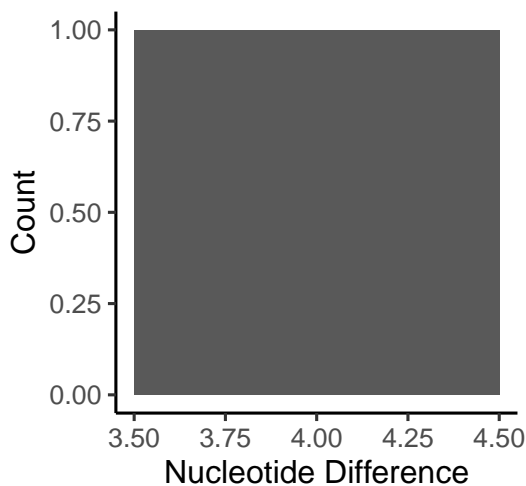
IGHV1-8*01

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



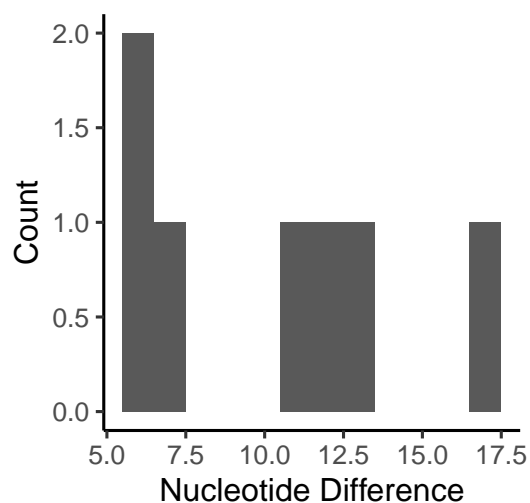
IGHV1-45*02

1 sequences assigned
No exact matches.



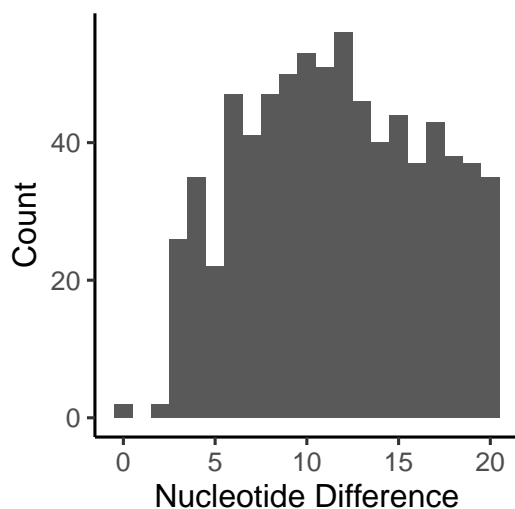
IGHV1-58*02

9 sequences assigned
No exact matches.



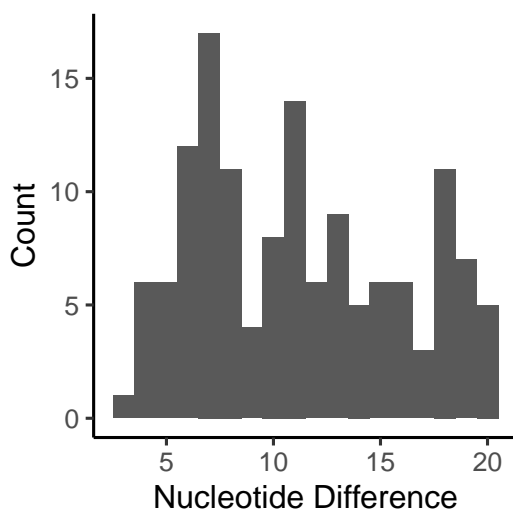
IGHV1-18*01

1016 sequences assigned
2 (0.2%) exact matches, in which:
2 unique CDR3
1 unique J



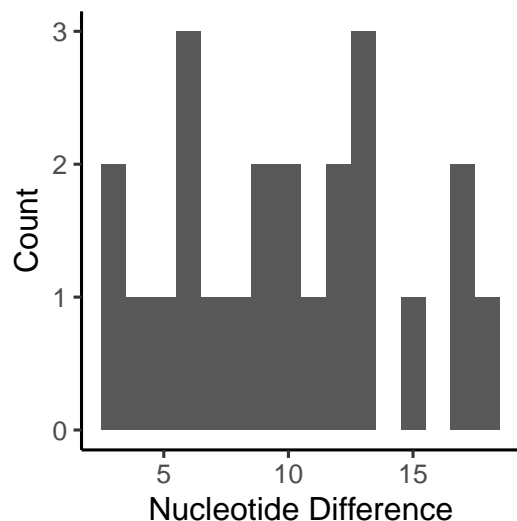
IGHV1-46*01

161 sequences assigned
No exact matches.



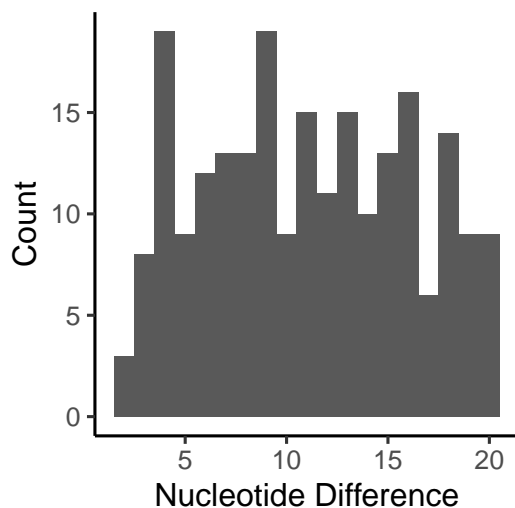
IGHV1-58*01_03

31 sequences assigned
No exact matches.



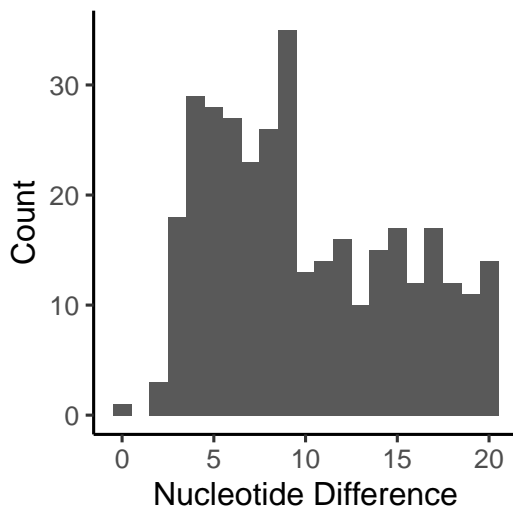
IGHV1-69*01_12_13

381 sequences assigned
No exact matches.



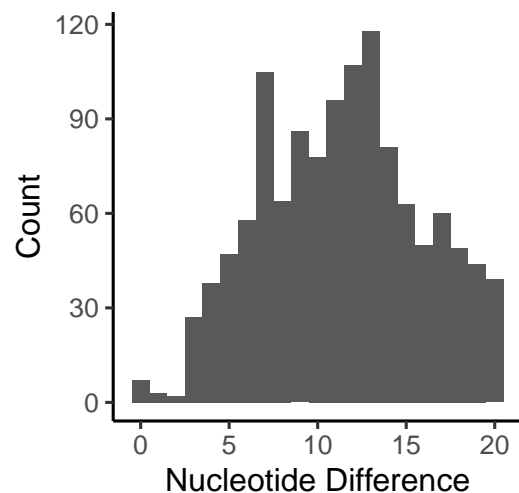
IGHV2-5*02

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



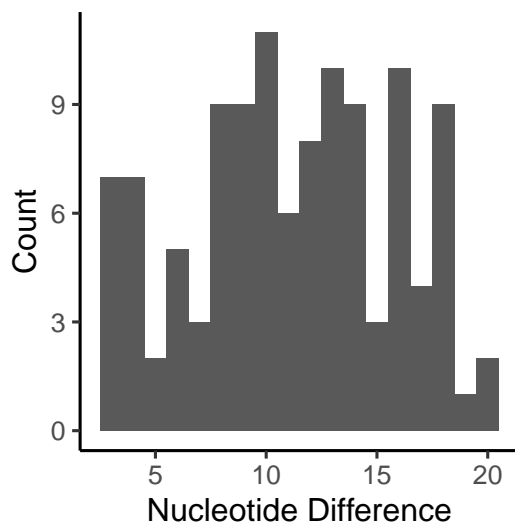
IGHV3-7*01

1460 sequences assigned
7 (0.5%) exact matches, in which:
4 unique CDR3
3 unique J



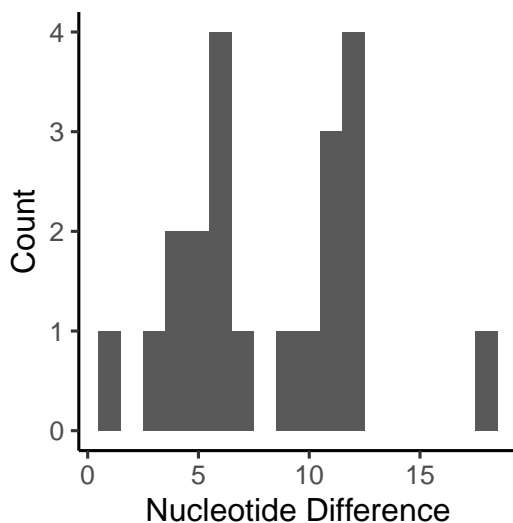
IGHV1-69*06_14

190 sequences assigned
No exact matches.



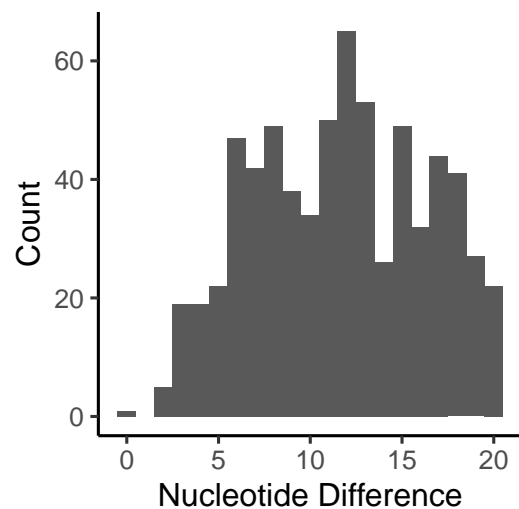
IGHV2-26*01

27 sequences assigned
No exact matches.



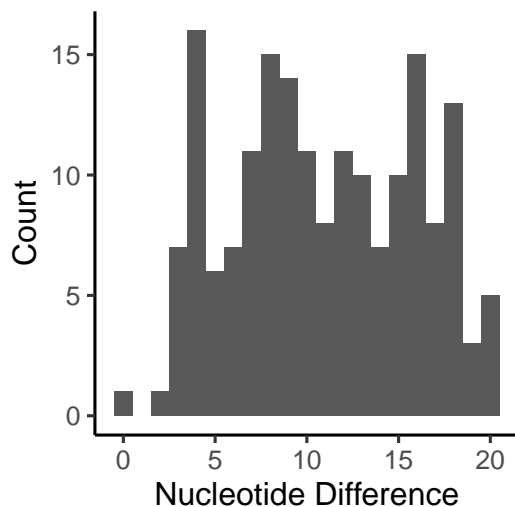
IGHV3-7*04

899 sequences assigned
1 (0.1%) exact matches, in which:
1 unique CDR3
1 unique J



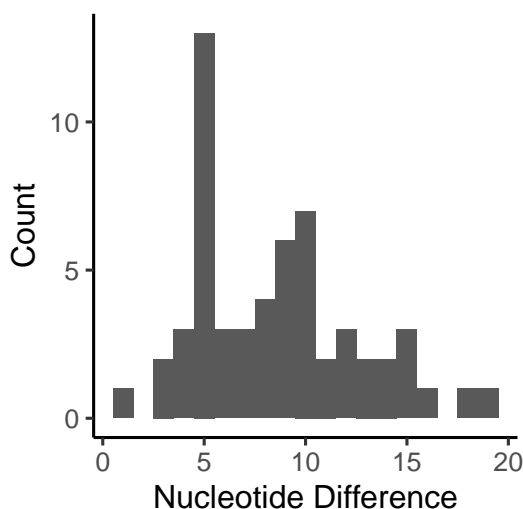
IGHV2-5*01

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



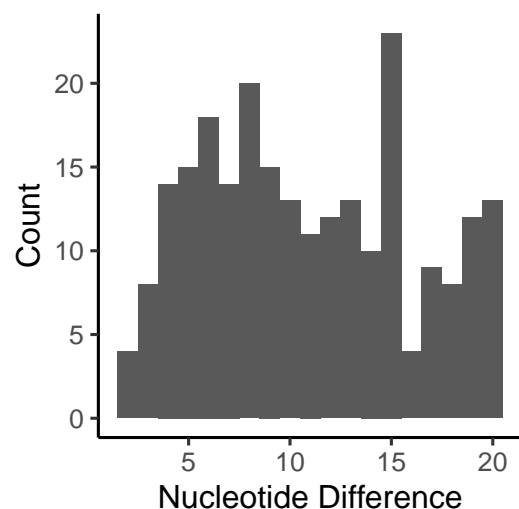
IGHV2-70*01

74 sequences assigned
No exact matches.



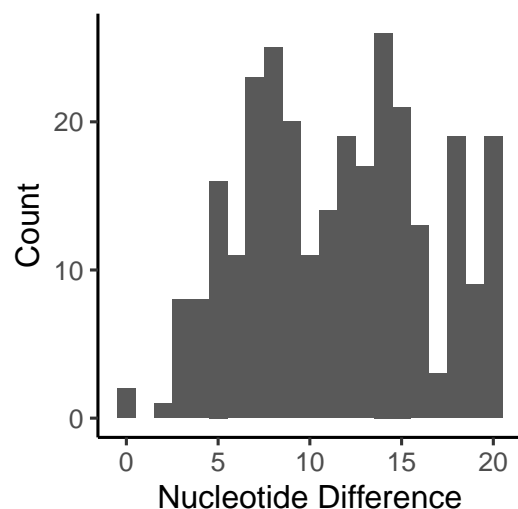
IGHV3-9*01

304 sequences assigned
No exact matches.



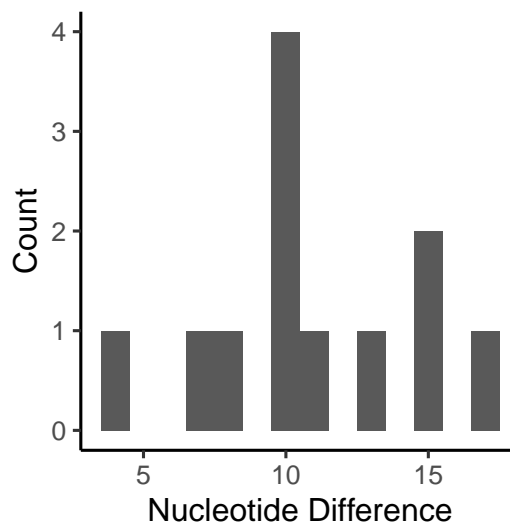
IGHV3-11*01

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



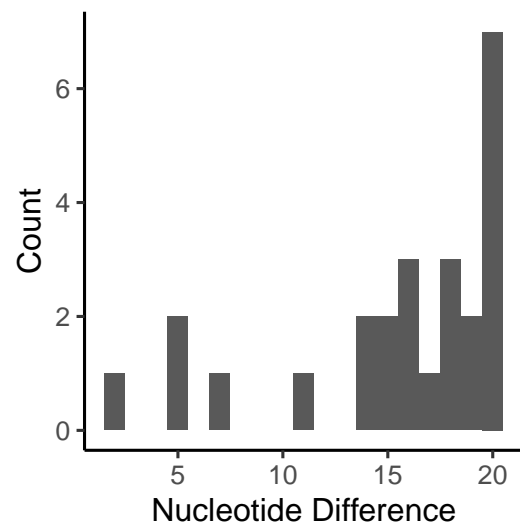
IGHV3-13*05

22 sequences assigned
No exact matches.



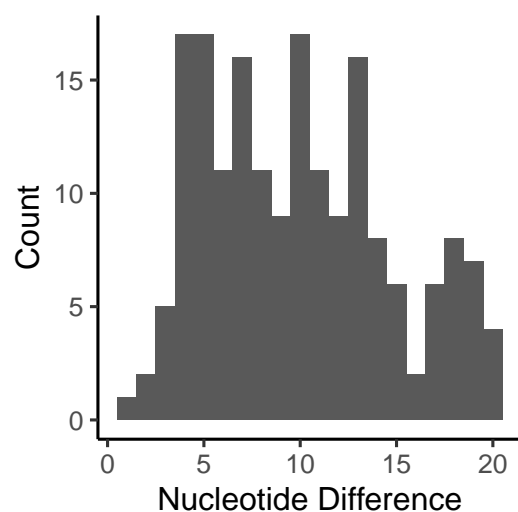
IGHV3-20*03_04

112 sequences assigned
No exact matches.



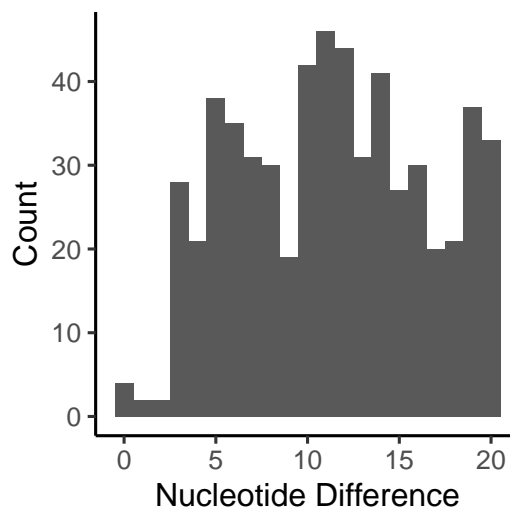
IGHV3-11*06

291 sequences assigned
No exact matches.



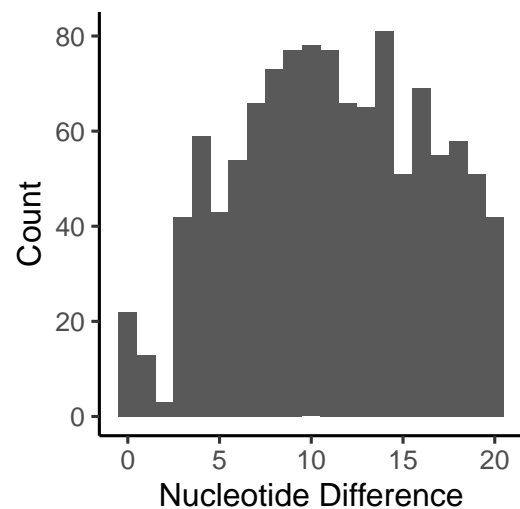
IGHV3-15*01_02

993 sequences assigned
4 (0.4%) exact matches, in which:
1 unique CDR3
1 unique J



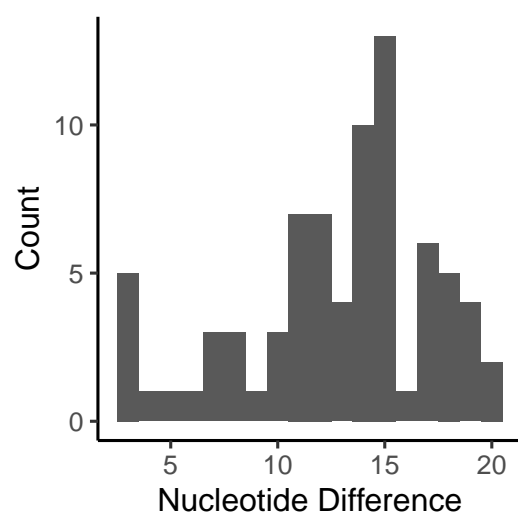
IGHV3-21*01_02

1487 sequences assigned
22 (1.5%) exact matches, in which:
9 unique CDR3
4 unique J



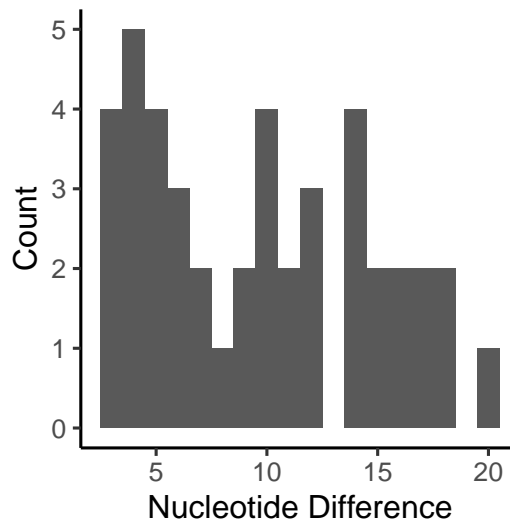
IGHV3-13*01

105 sequences assigned
No exact matches.



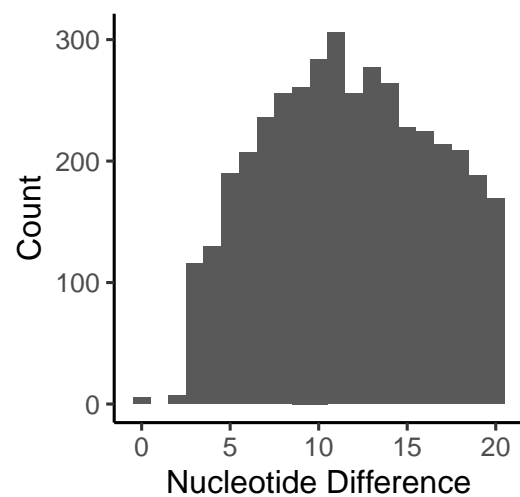
IGHV3-20*01_02

56 sequences assigned
No exact matches.



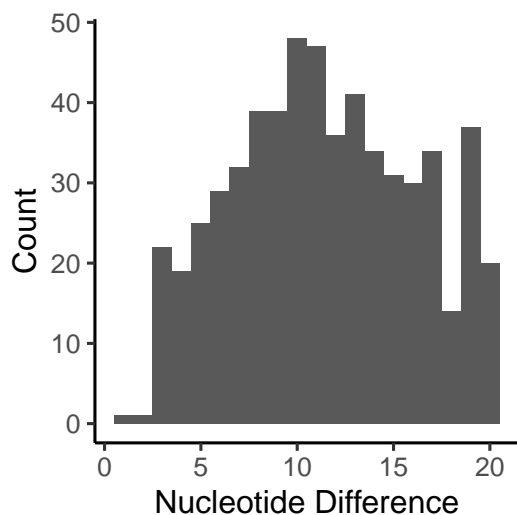
IGHV3-23*01_04

5516 sequences assigned
5 (0.1%) exact matches, in which:
3 unique CDR3
2 unique J



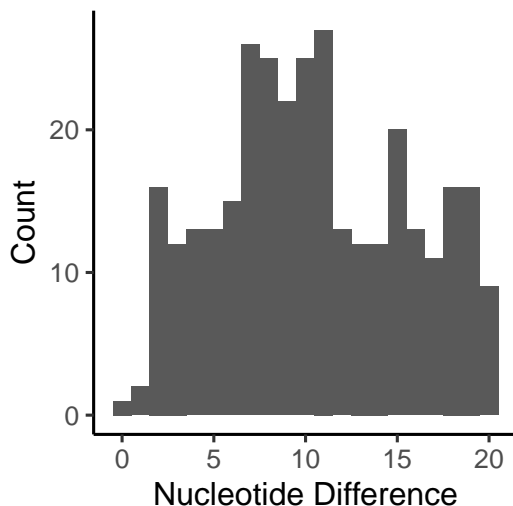
IGHV3-30-3*01

779 sequences assigned
No exact matches.



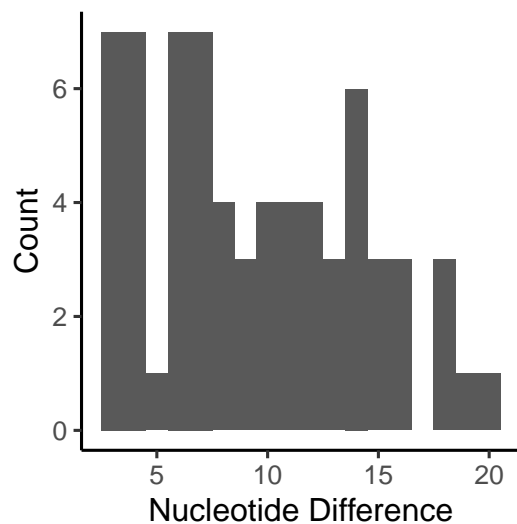
IGHV3-48*01

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



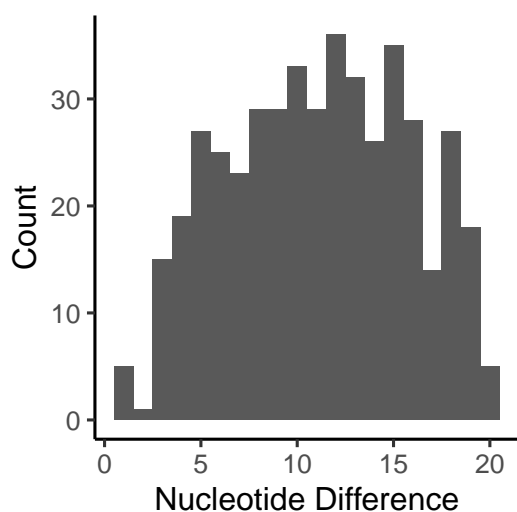
IGHV3-49*03_05

86 sequences assigned
No exact matches.



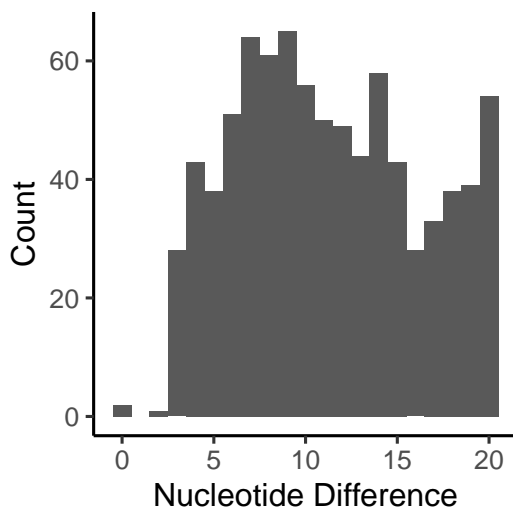
IGHV3-33*01

617 sequences assigned
No exact matches.



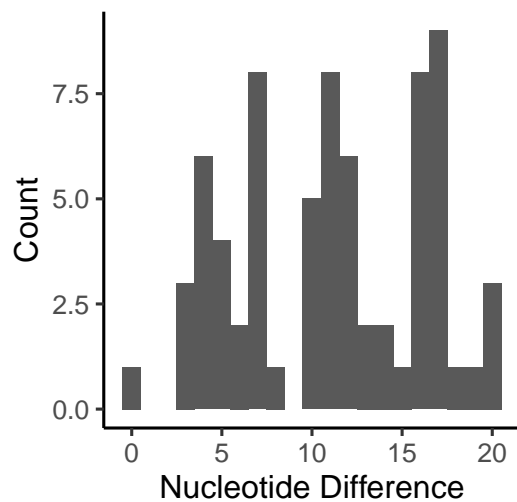
IGHV3-48*03

1056 sequences assigned
2 (0.2%) exact matches, in which:
2 unique CDR3
1 unique J



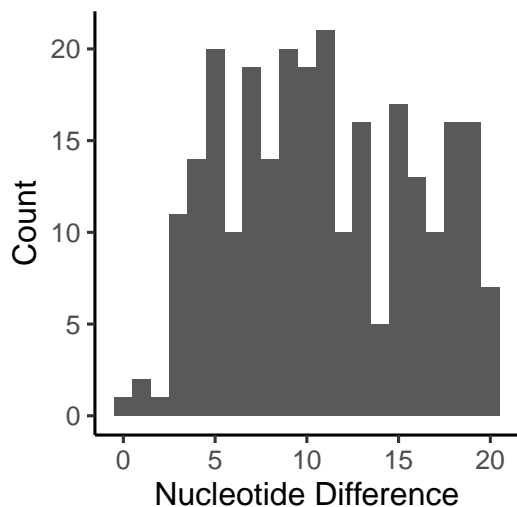
IGHV3-53*04

134 sequences assigned
1 (0.7%) exact matches, in which:
1 unique CDR3
1 unique J



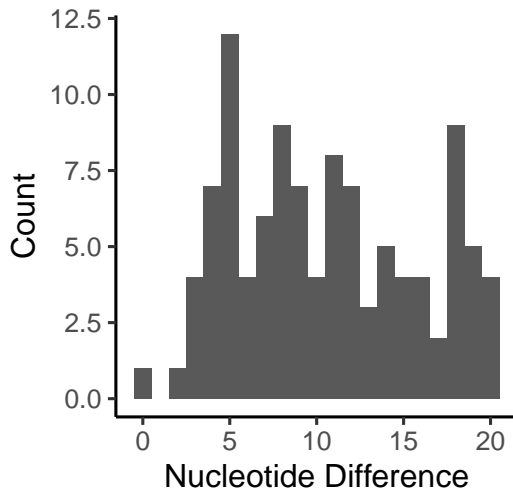
IGHV3-43*02

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



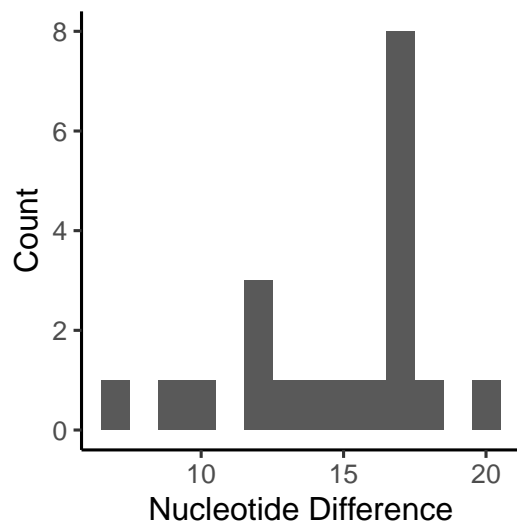
IGHV3-49*04

149 sequences assigned
1 (0.7%) exact matches, in which:
1 unique CDR3
1 unique J



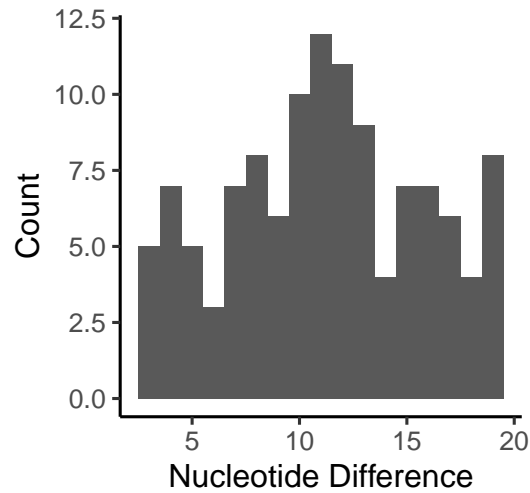
IGHV3-53*05

34 sequences assigned
No exact matches.



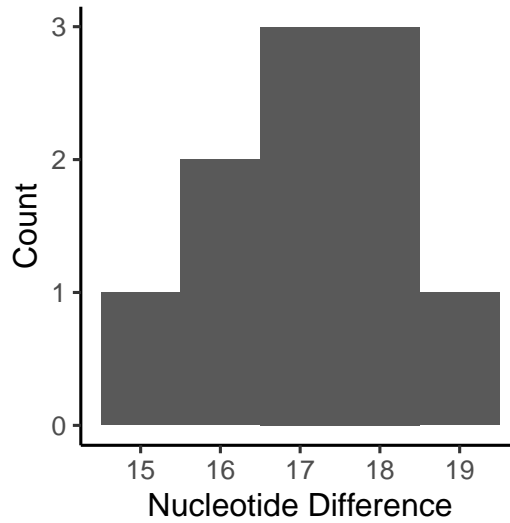
IGHV3-53*01_02

138 sequences assigned
No exact matches.



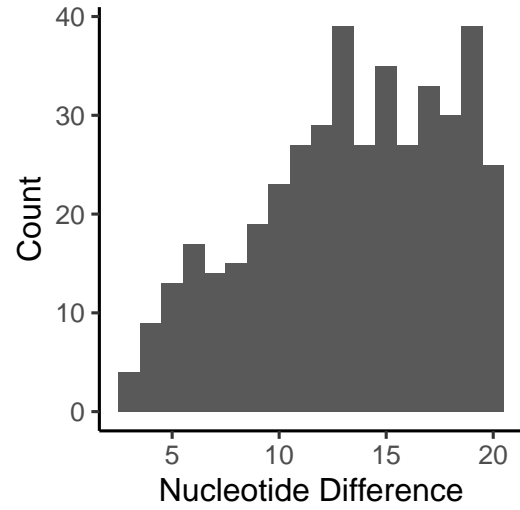
IGHV3-69-1*01

19 sequences assigned
No exact matches.



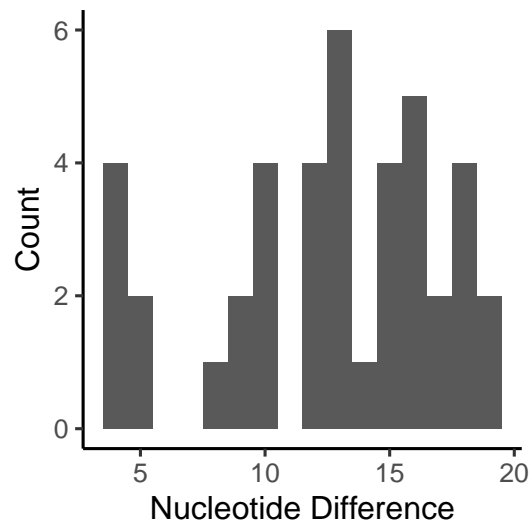
IGHV3-74*03

572 sequences assigned
No exact matches.



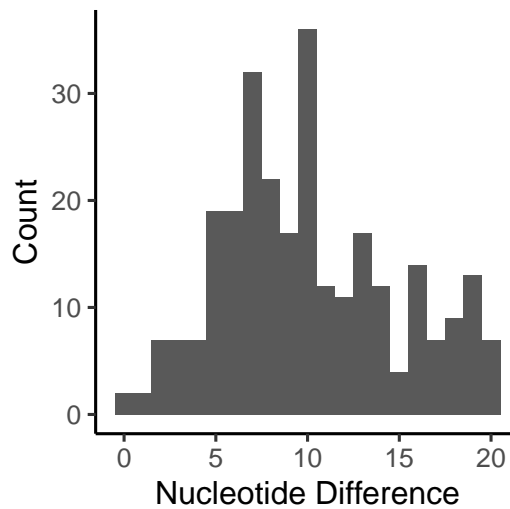
IGHV3-64*02_07

45 sequences assigned
No exact matches.



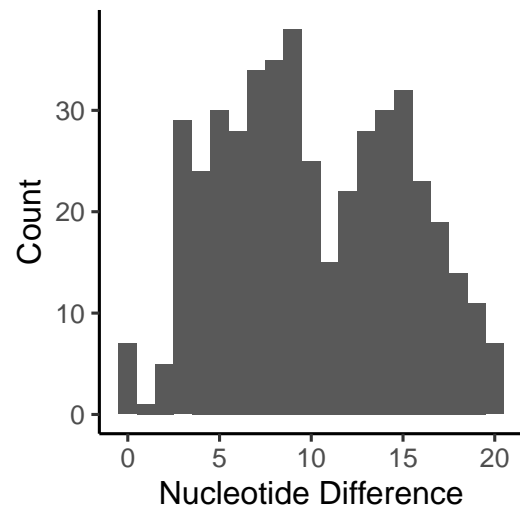
IGHV3-72*01

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



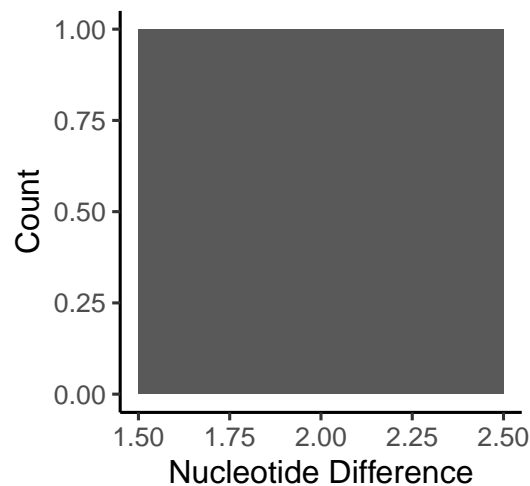
IGHV3-74*01_02

595 sequences assigned
7 (1.2%) exact matches, in which:
4 unique CDR3
2 unique J



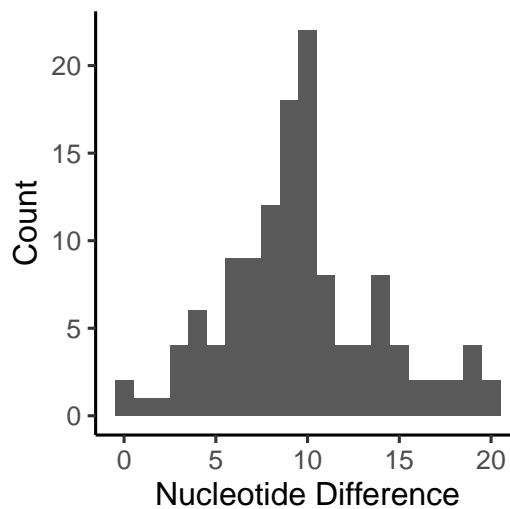
IGHV3-66*04

1 sequences assigned
No exact matches.



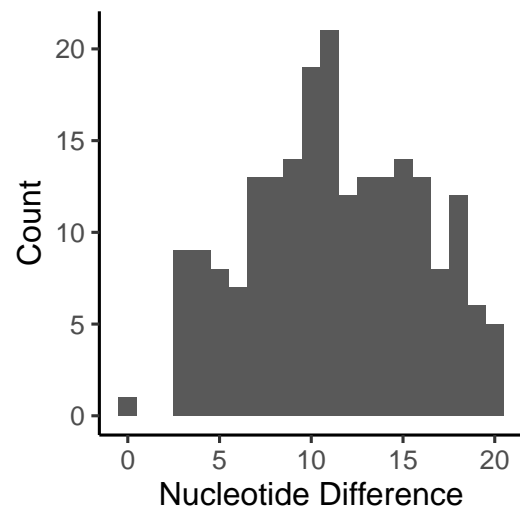
IGHV3-73*01_02

157 sequences assigned
2 (1.3%) exact matches, in which:
1 unique CDR3
0 unique J



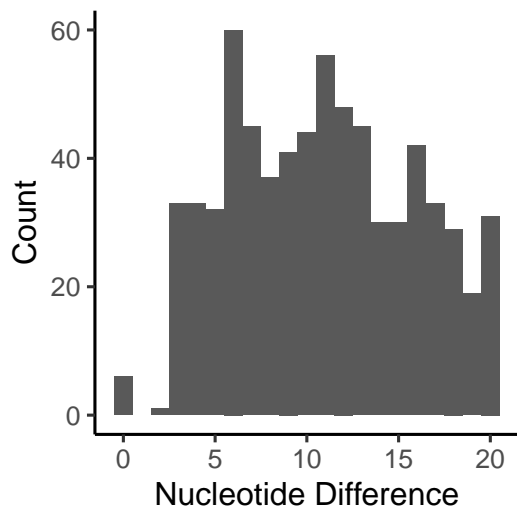
IGHV3-64D*06

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



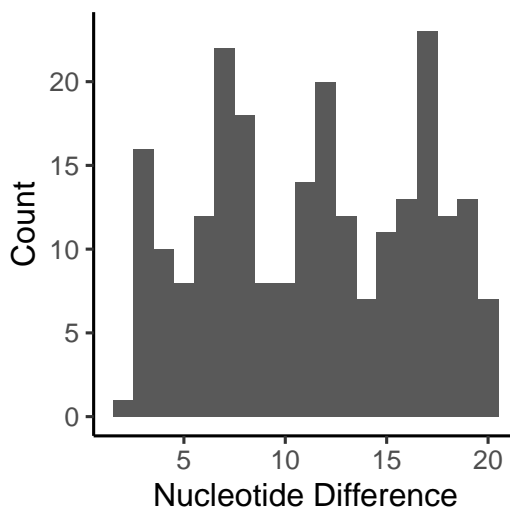
IGHV4-4*07

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



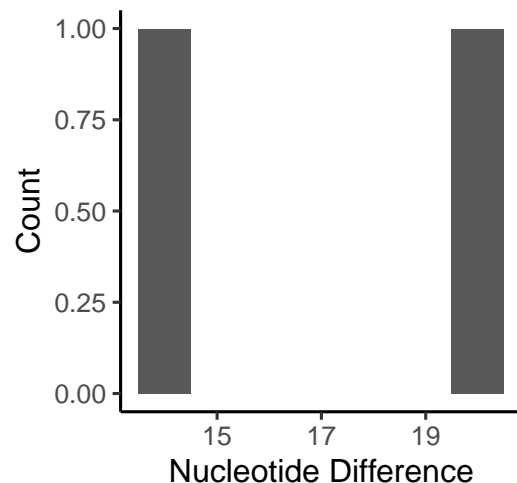
IGHV4-30-2*01

415 sequences assigned
No exact matches.



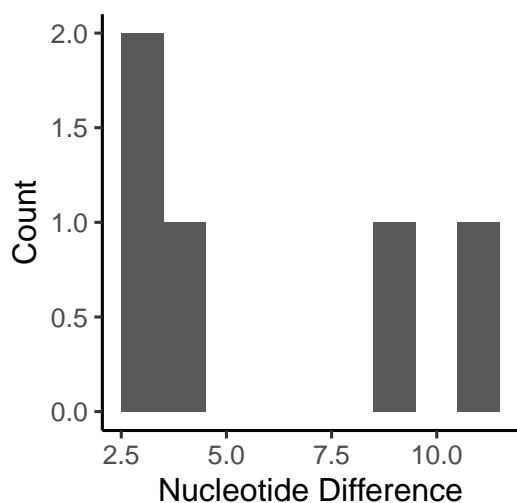
IGHV4-38-2*02

14 sequences assigned
No exact matches.



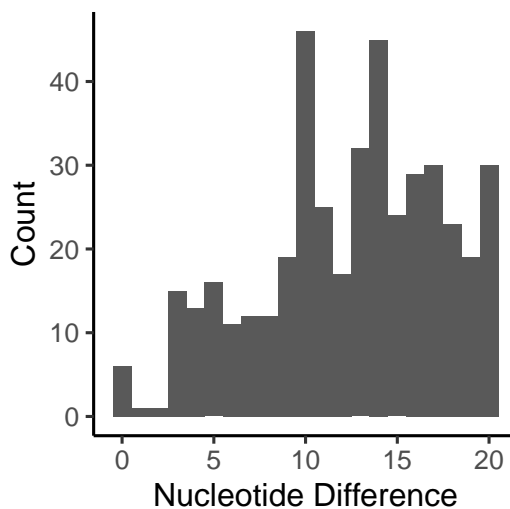
IGHV4-28*01_07

6 sequences assigned
No exact matches.



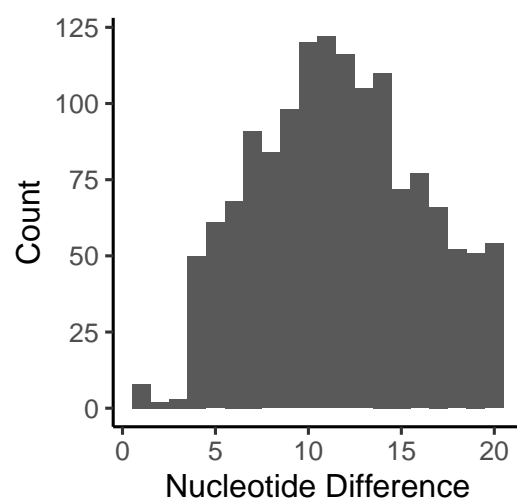
IGHV4-31*02

568 sequences assigned
6 (1.1%) exact matches, in which:
3 unique CDR3
1 unique J



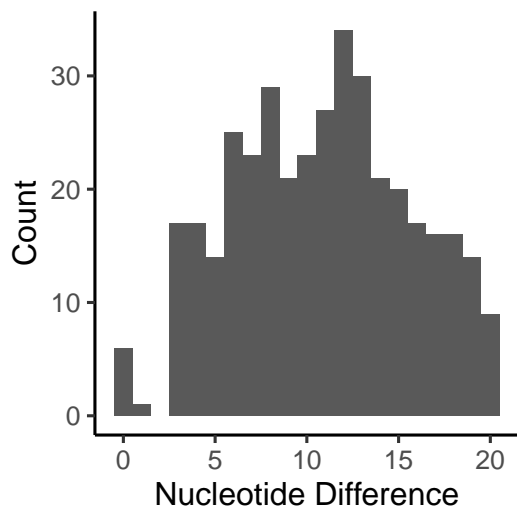
IGHV4-39*02

1833 sequences assigned
No exact matches.



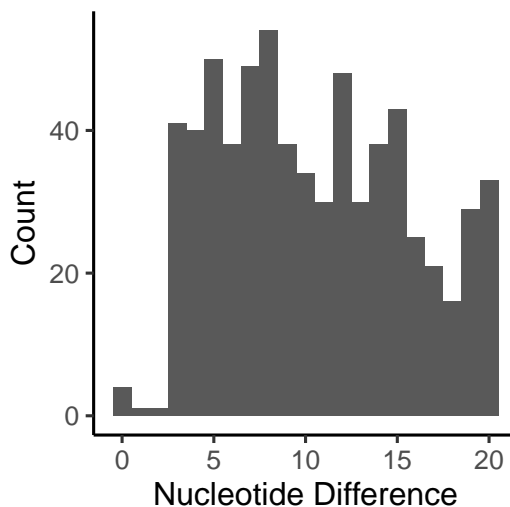
IGHV4-30-4*01

549 sequences assigned
6 (1.1%) exact matches, in which:
3 unique CDR3
3 unique J



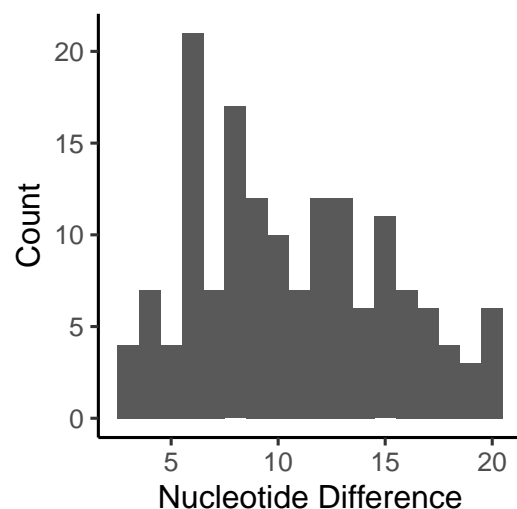
IGHV4-34*01_02

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



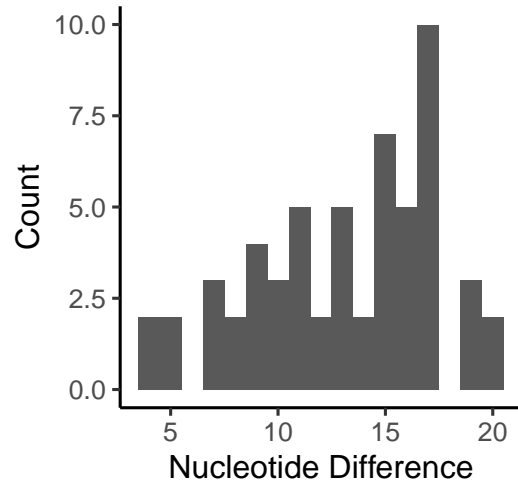
IGHV4-39*01_05

267 sequences assigned
No exact matches.



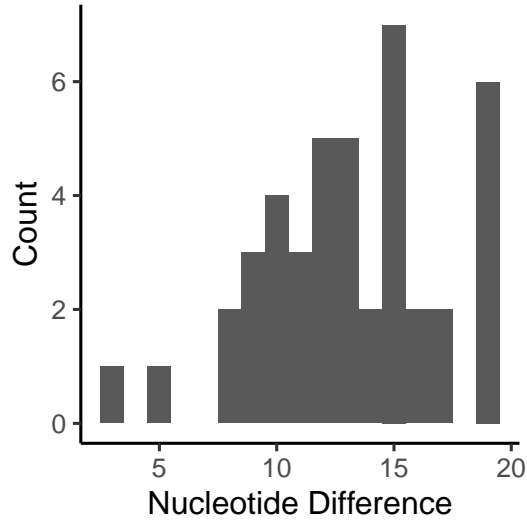
IGHV4-59*02

122 sequences assigned
No exact matches.



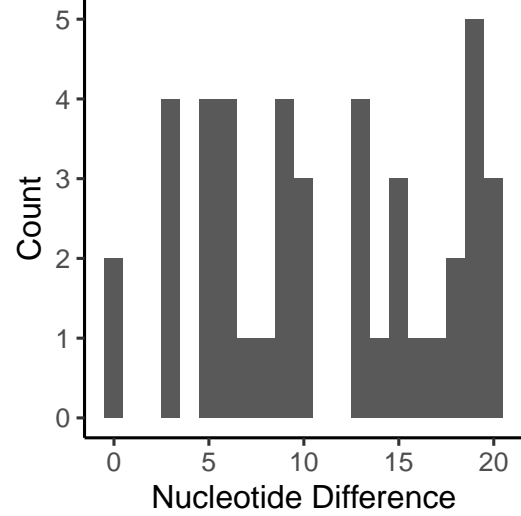
IGHV4-59*13

70 sequences assigned
No exact matches.



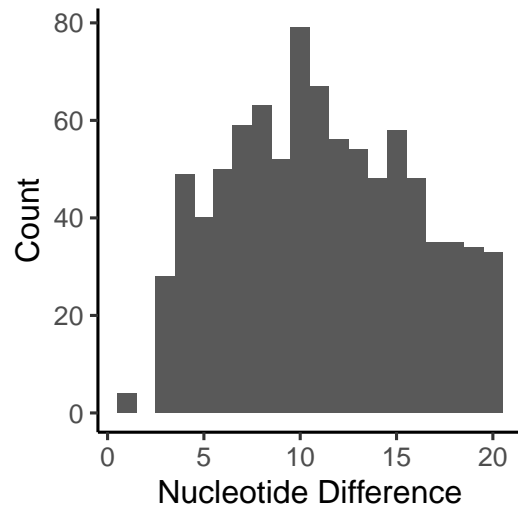
IGHV5-10-1*01_03

86 sequences assigned
2 (2.3%) exact matches, in which:
2 unique CDR3
2 unique J



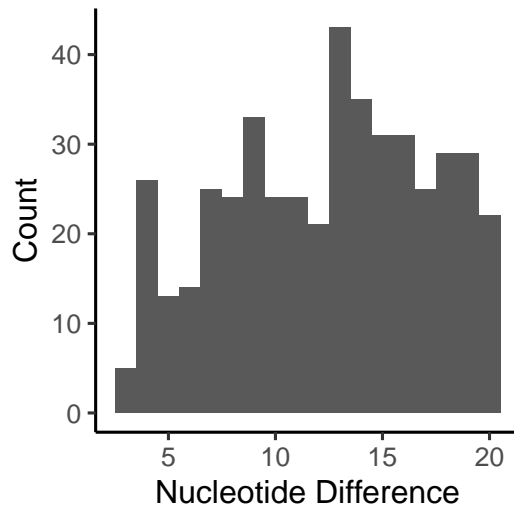
IGHV4-59*01_07

1062 sequences assigned
No exact matches.



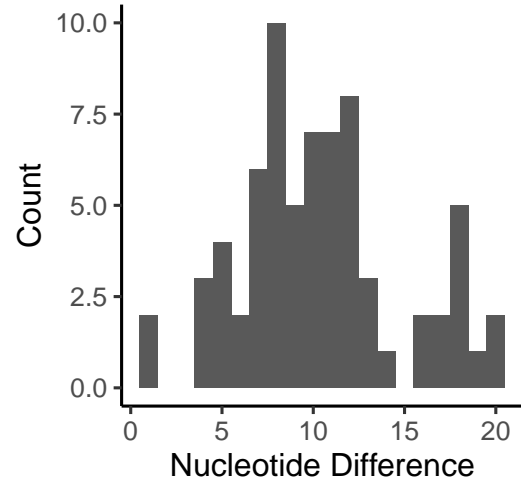
IGHV4-61*01

582 sequences assigned
No exact matches.



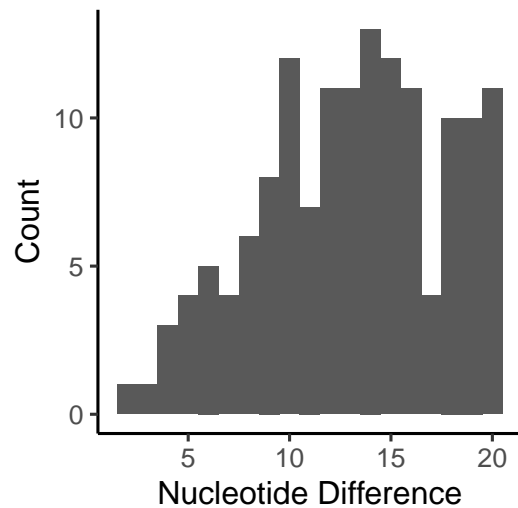
IGHV5-51*07

82 sequences assigned
No exact matches.



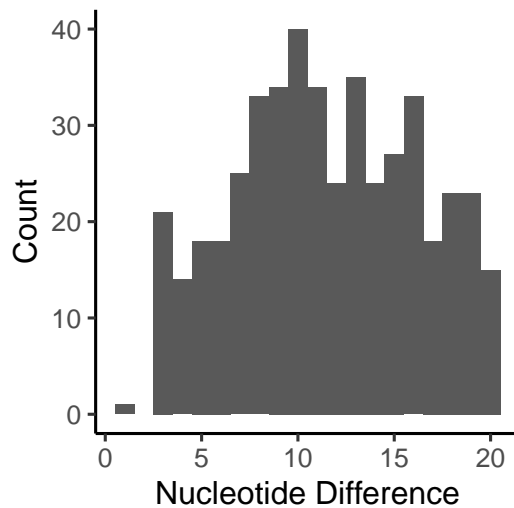
IGHV4-59*11

227 sequences assigned
No exact matches.



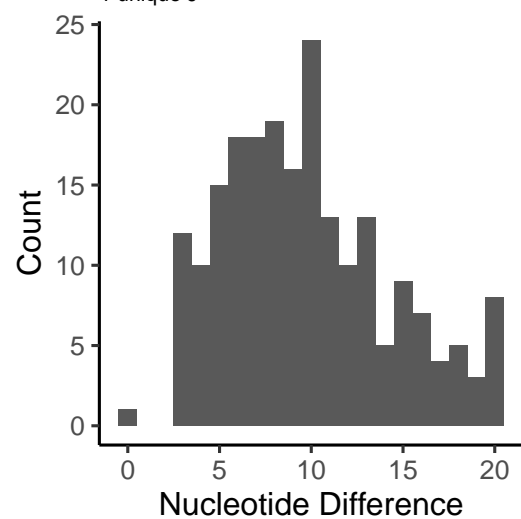
IGHV4-61*02

721 sequences assigned
No exact matches.



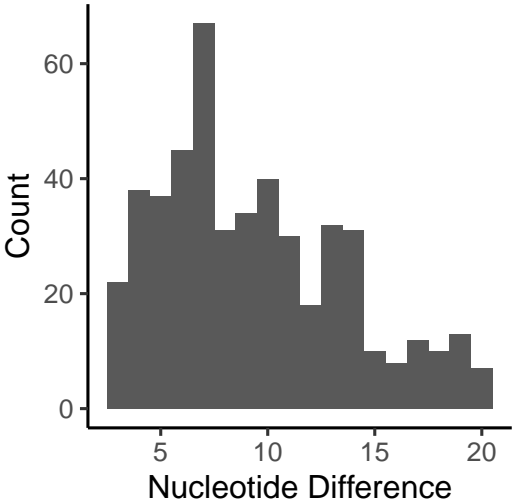
IGHV5-51*01_03

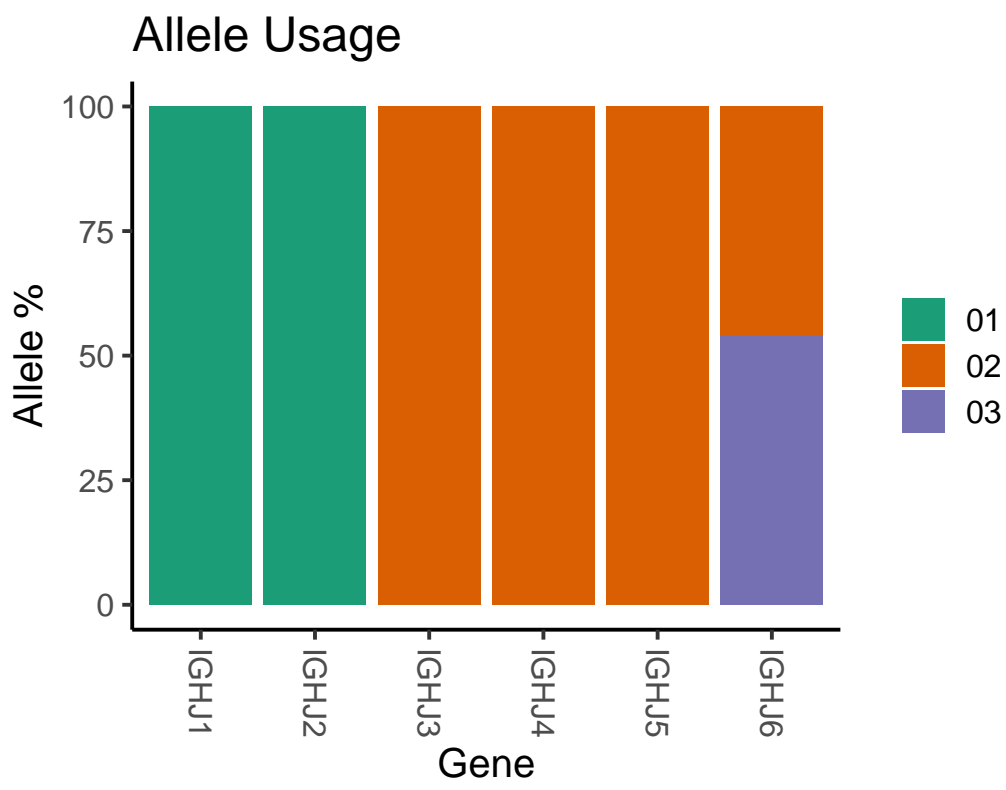
250 sequences assigned
1 (0.4%) exact matches, in which:
1 unique CDR3
1 unique J



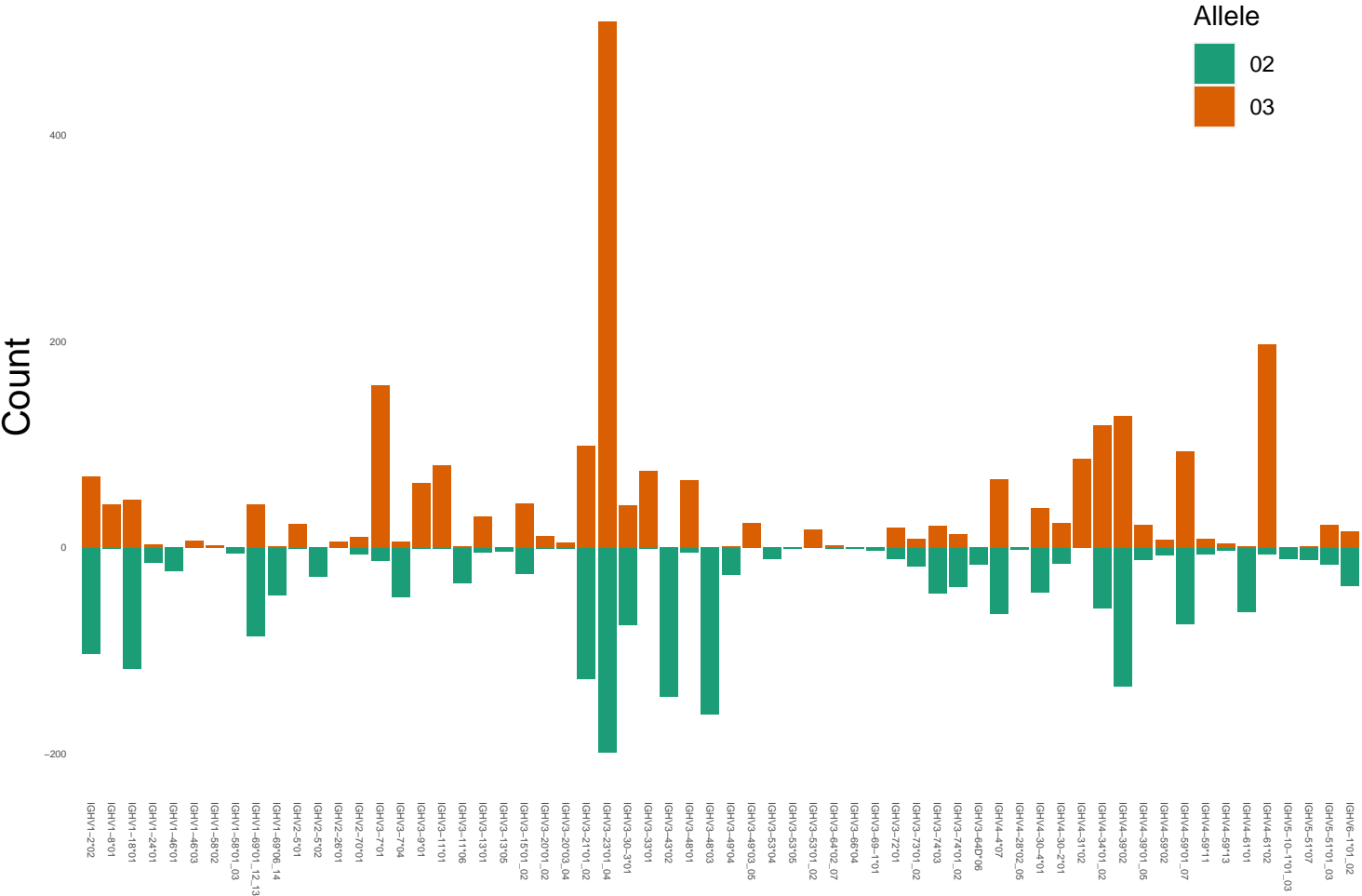
IGHV6-1*01_02

514 sequences assigned
No exact matches.





Sequence Count by IGHJ6 allele usage



[illegible]