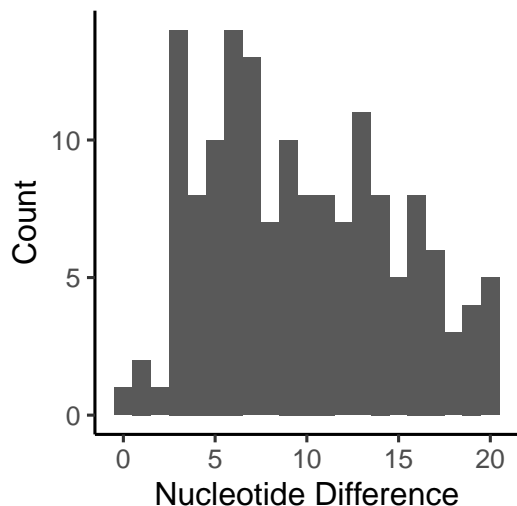


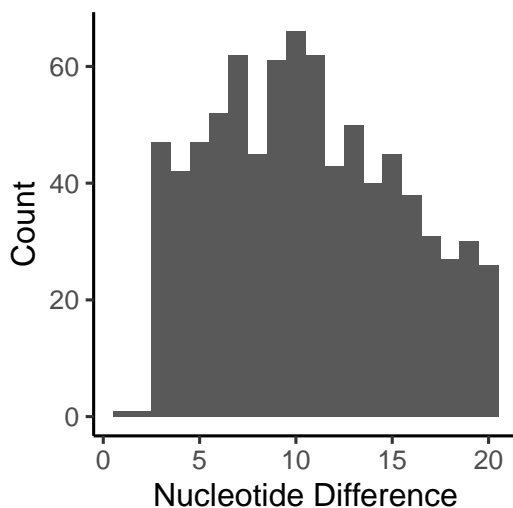
IGHV1-2*04

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



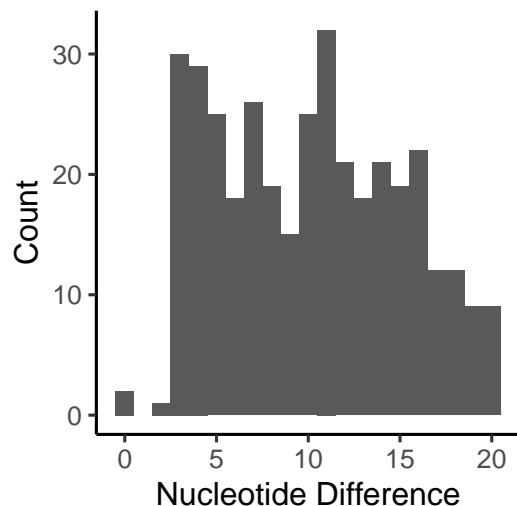
IGHV1-18*01

985 sequences assigned
No exact matches.



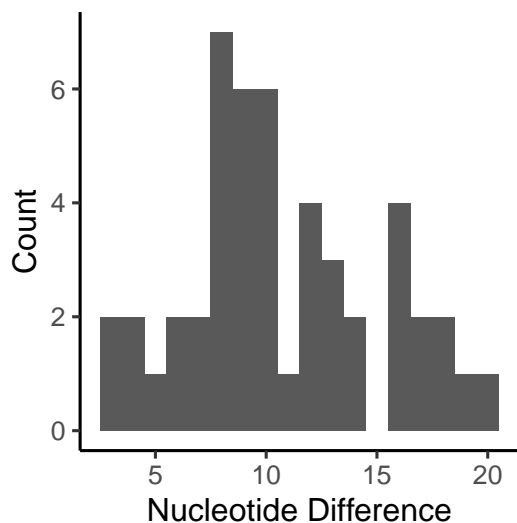
IGHV1-46*01

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



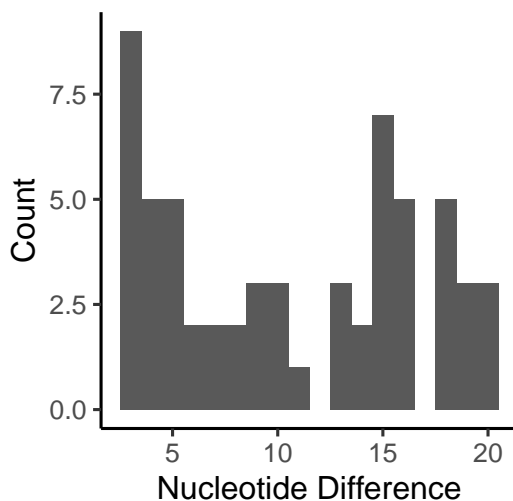
IGHV1-3*04

68 sequences assigned
No exact matches.



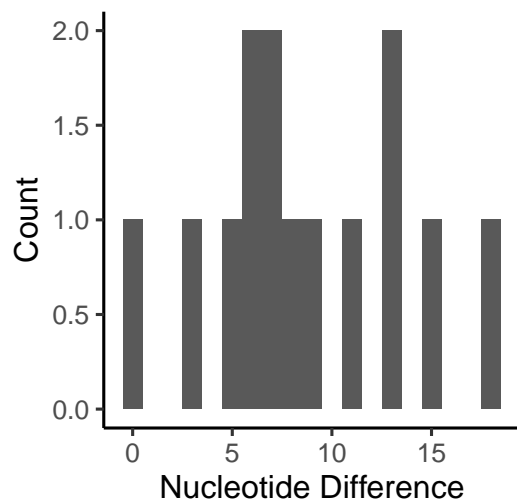
IGHV1-24*01

70 sequences assigned
No exact matches.



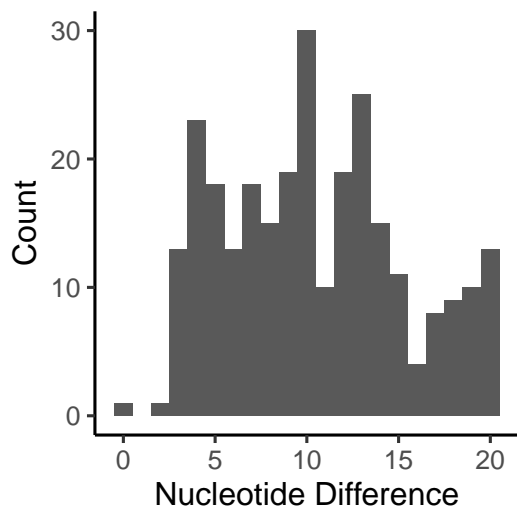
IGHV1-58*02

21 sequences assigned
1 (4.8%) exact matches, in which:
1 unique CDR3
1 unique J



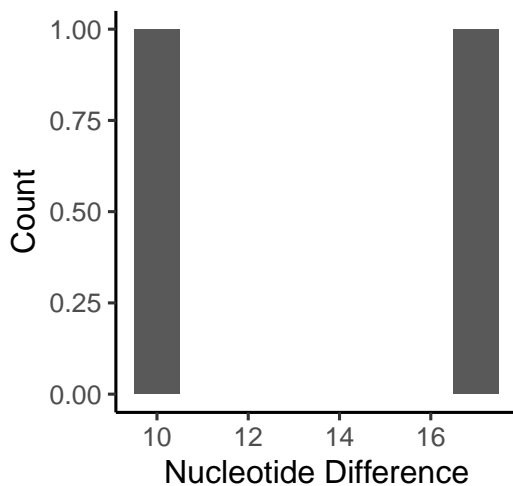
IGHV1-3*01_05

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



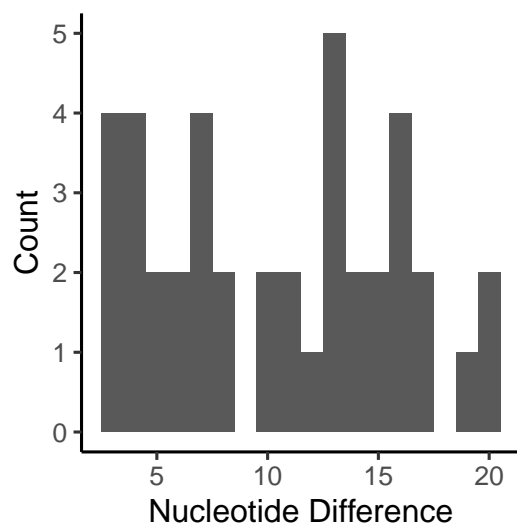
IGHV1-45*02

2 sequences assigned
No exact matches.



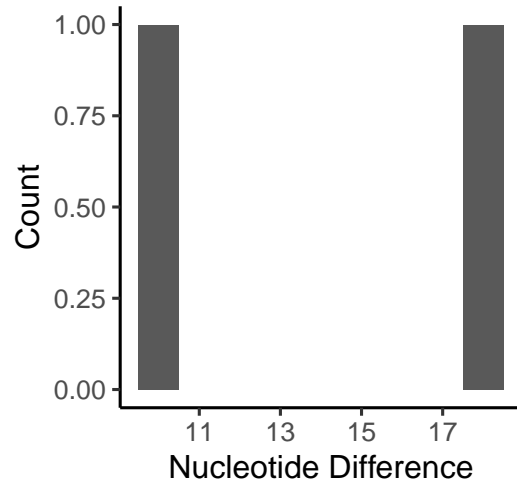
IGHV1-58*01_03

51 sequences assigned
No exact matches.



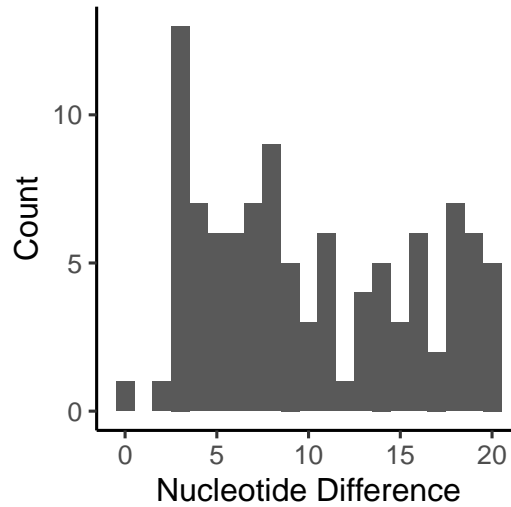
IGHV1-69-2*01

2 sequences assigned
No exact matches.



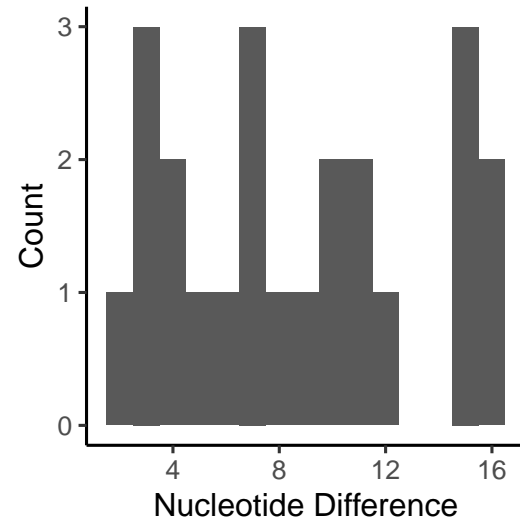
IGHV1-69*06_14

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



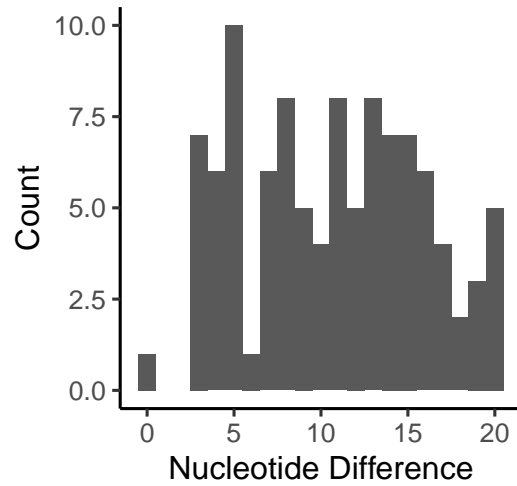
IGHV2-70*01

25 sequences assigned
No exact matches.



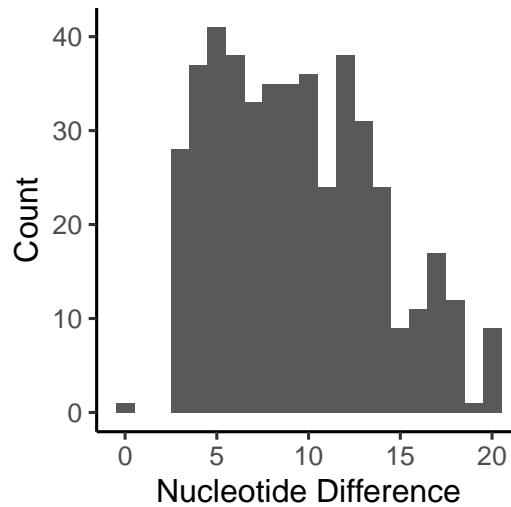
IGHV1-69*01_12_13

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



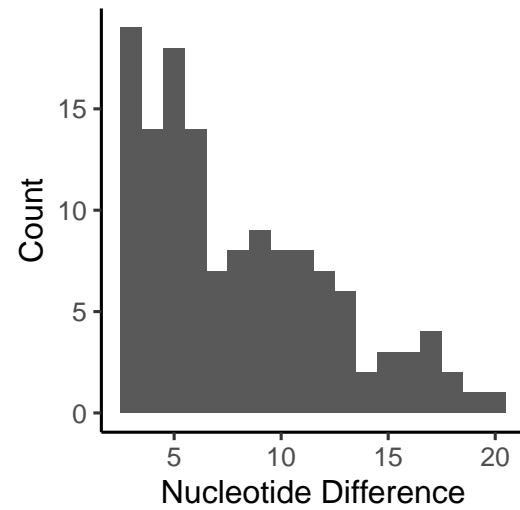
IGHV2-5*02

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



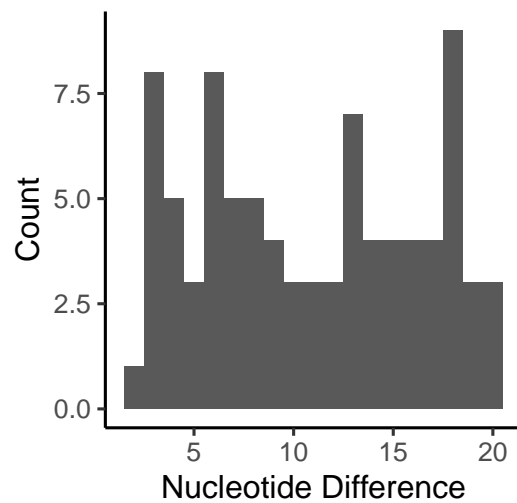
IGHV2-70*11_15

142 sequences assigned
No exact matches.



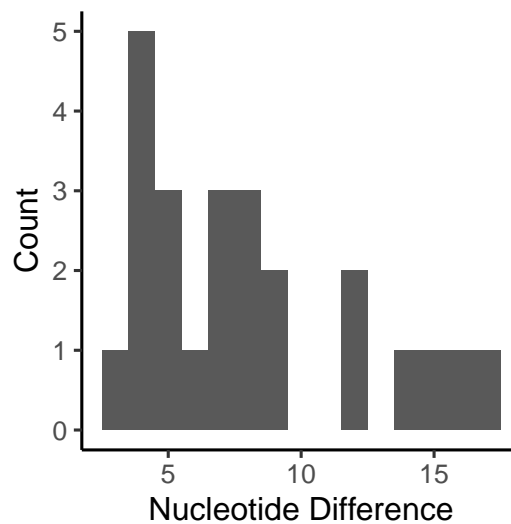
IGHV1-69*04_09

141 sequences assigned
No exact matches.



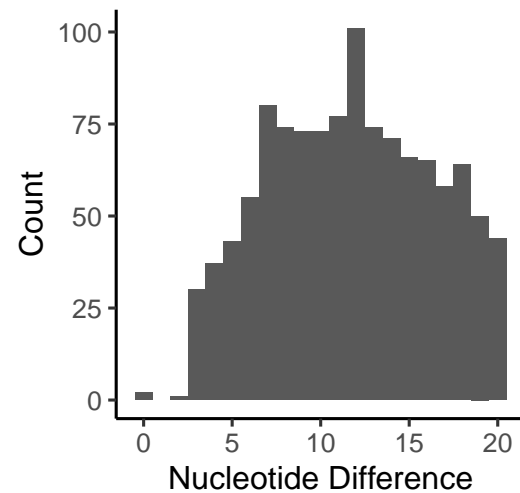
IGHV2-26*01

31 sequences assigned
No exact matches.



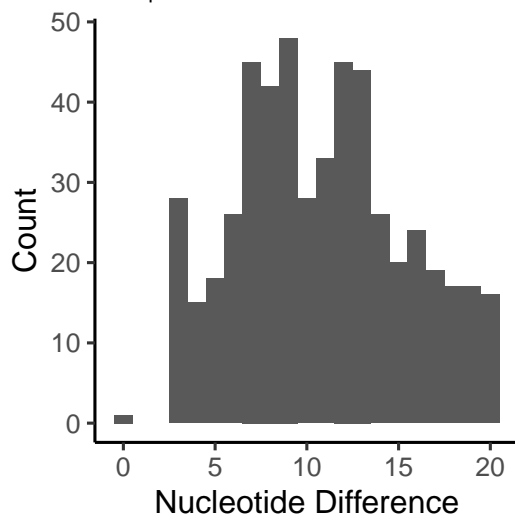
IGHV3-7*03

1366 sequences assigned
2 (0.1%) exact matches, in which:
2 unique CDR3
1 unique J



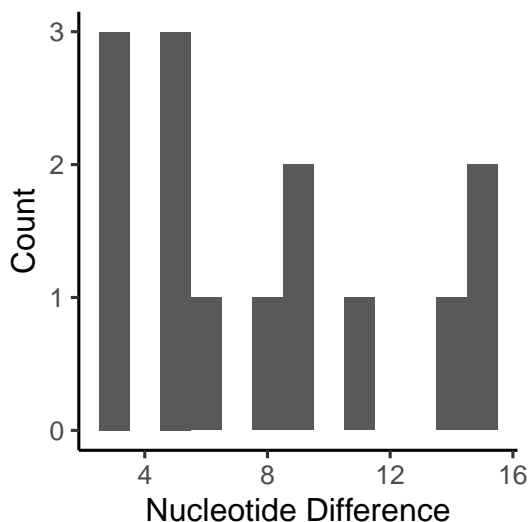
IGHV3-7*04

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



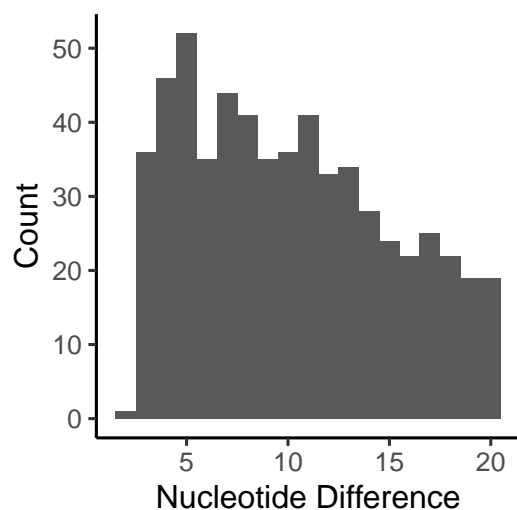
IGHV3-13*05

17 sequences assigned
No exact matches.



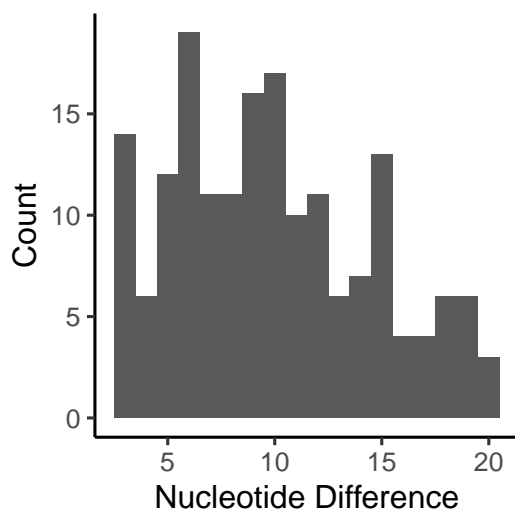
IGHV3-21*01_02

645 sequences assigned
No exact matches.



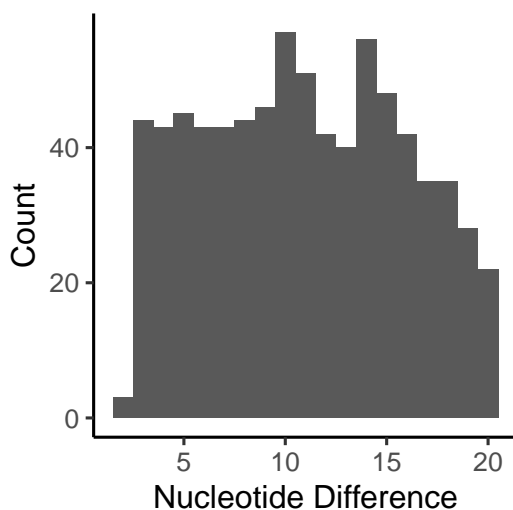
IGHV3-11*06

207 sequences assigned
No exact matches.



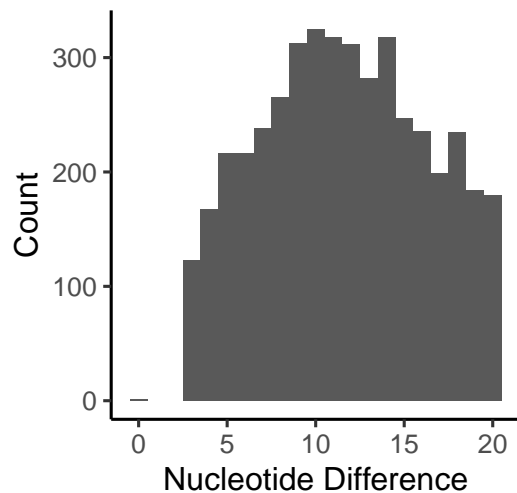
IGHV3-15*07

935 sequences assigned
No exact matches.



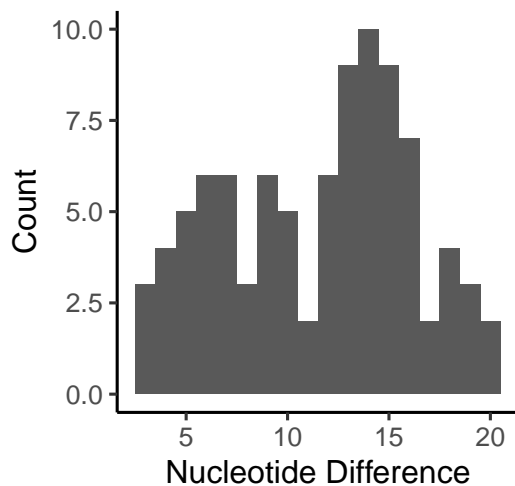
IGHV3-23*01_04

5271 sequences assigned
1 (0%) exact matches, in which:
1 unique CDR3
1 unique J



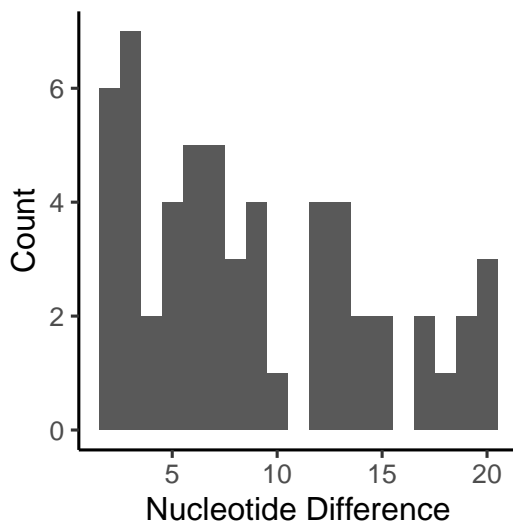
IGHV3-13*01

114 sequences assigned
No exact matches.



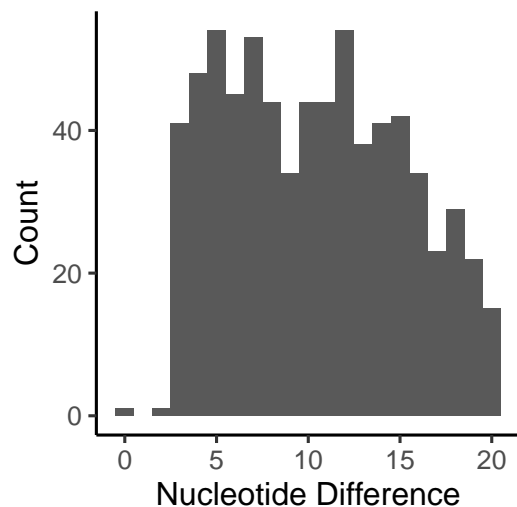
IGHV3-20*03_04

63 sequences assigned
No exact matches.



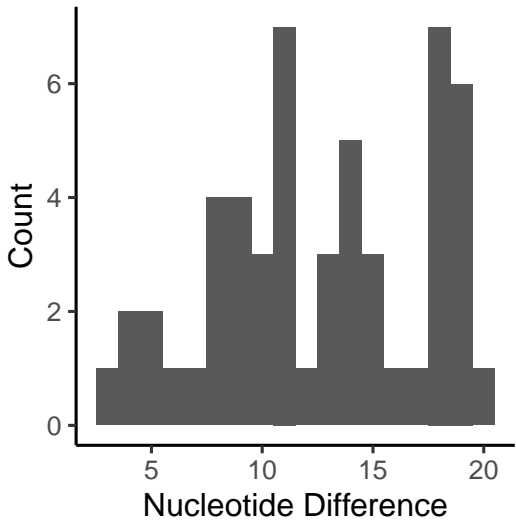
IGHV3-30-3*01

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



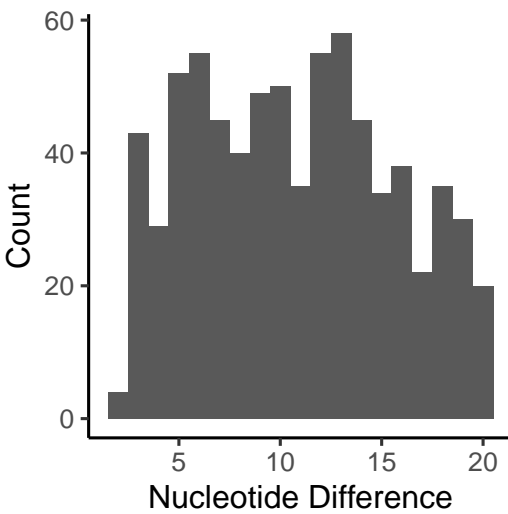
IGHV3-30*04

94 sequences assigned
No exact matches.



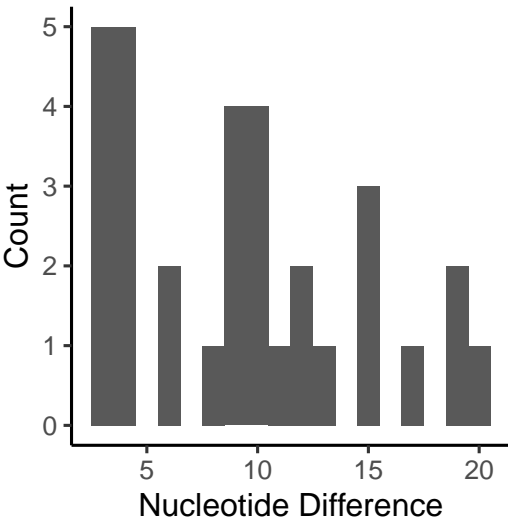
IGHV3-48*02

837 sequences assigned
No exact matches.



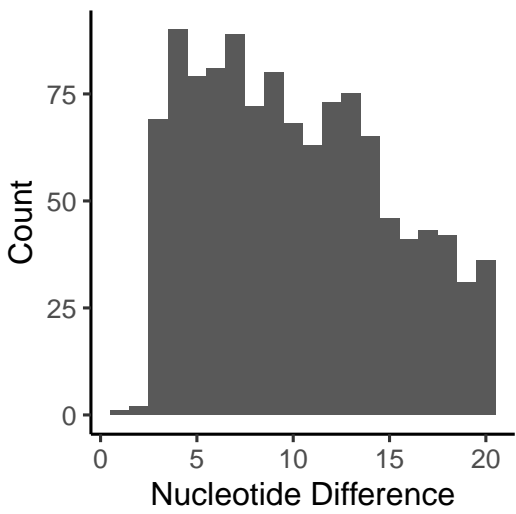
IGHV3-49*03_05

35 sequences assigned
No exact matches.



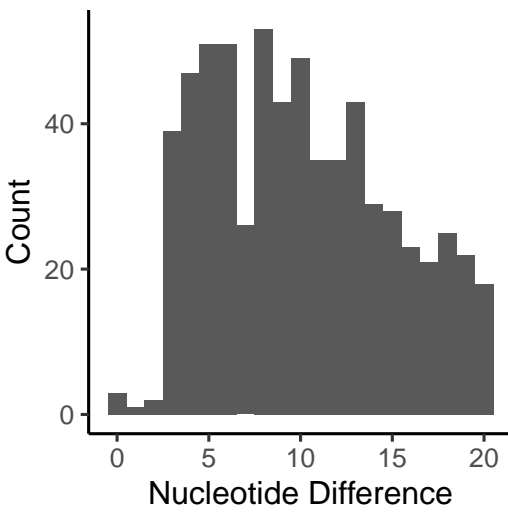
IGHV3-33*01

1365 sequences assigned
No exact matches.



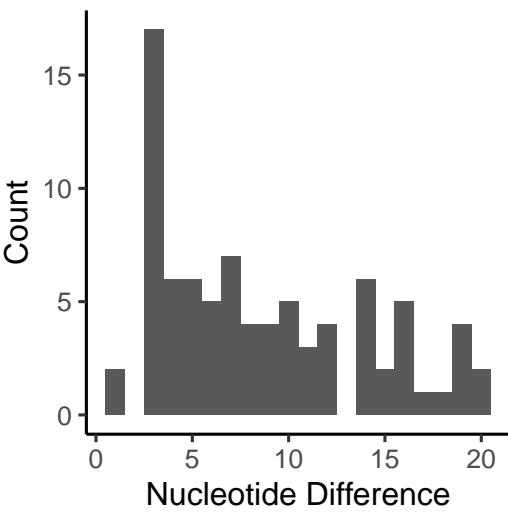
IGHV3-48*03

746 sequences assigned
3 (0.4%) exact matches, in which:
3 unique CDR3
1 unique J



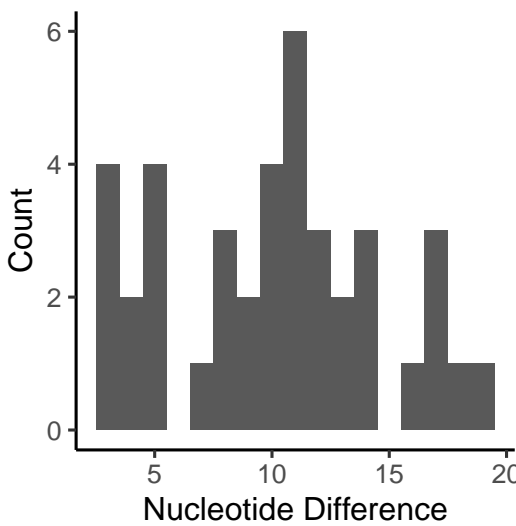
IGHV3-53*04

99 sequences assigned
No exact matches.



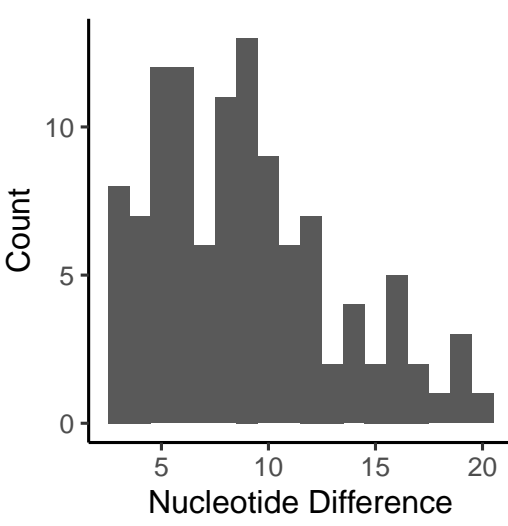
IGHV3-43*01

51 sequences assigned
No exact matches.



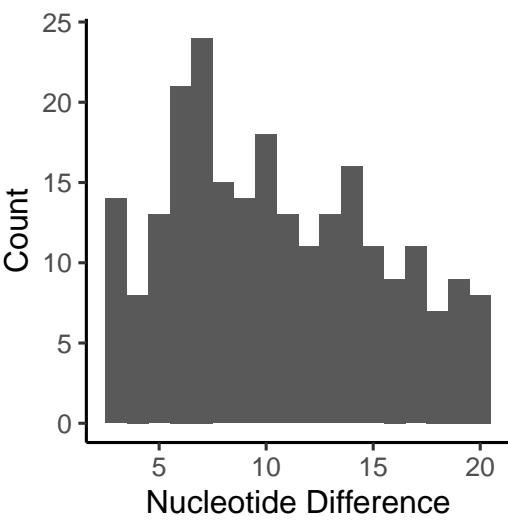
IGHV3-49*04

131 sequences assigned
No exact matches.



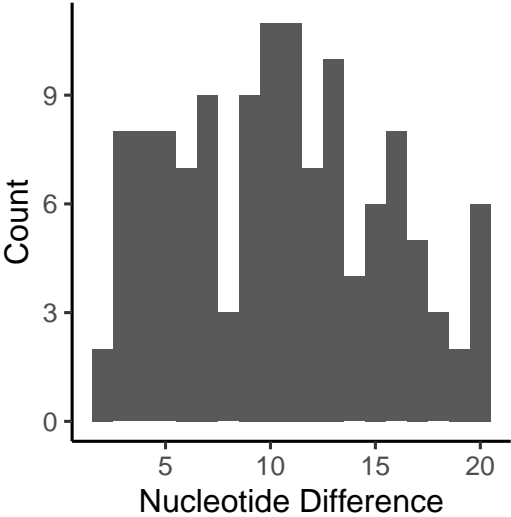
IGHV3-53*01_02

284 sequences assigned
No exact matches.



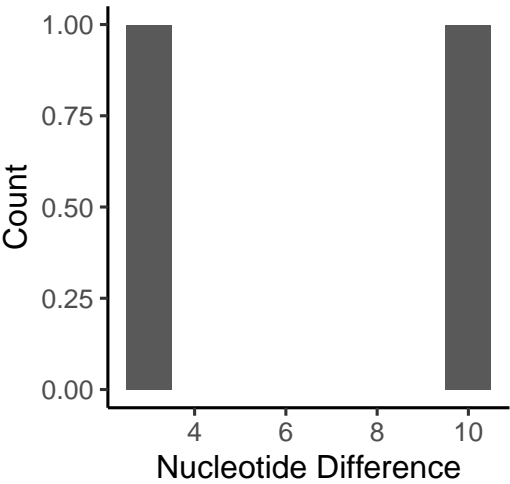
IGHV3-64*01

139 sequences assigned
No exact matches.



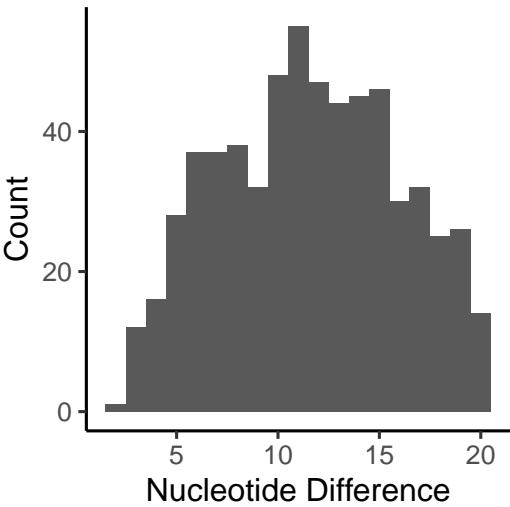
IGHV3-69-1*01

5 sequences assigned
No exact matches.



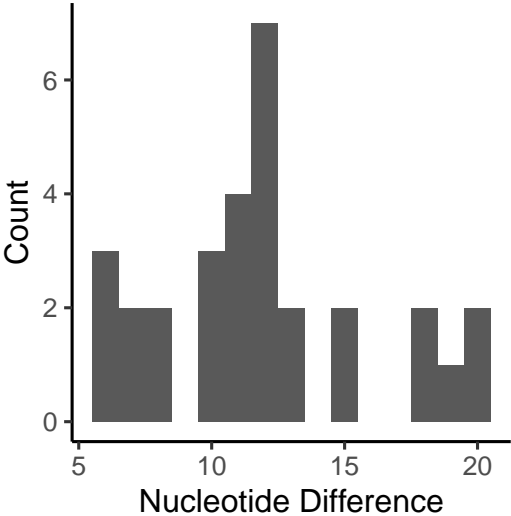
IGHV3-74*03

692 sequences assigned
No exact matches.



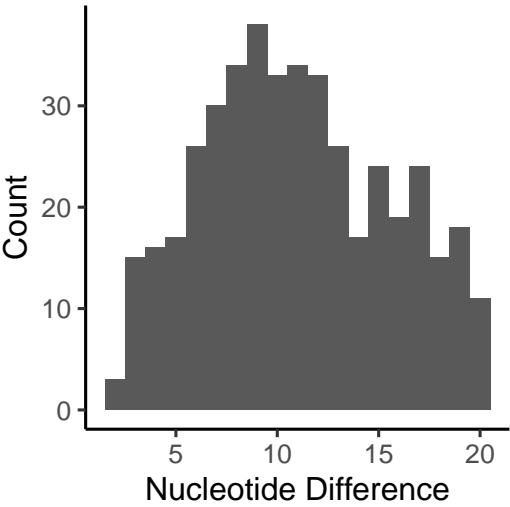
IGHV3-64*02_07

35 sequences assigned
No exact matches.



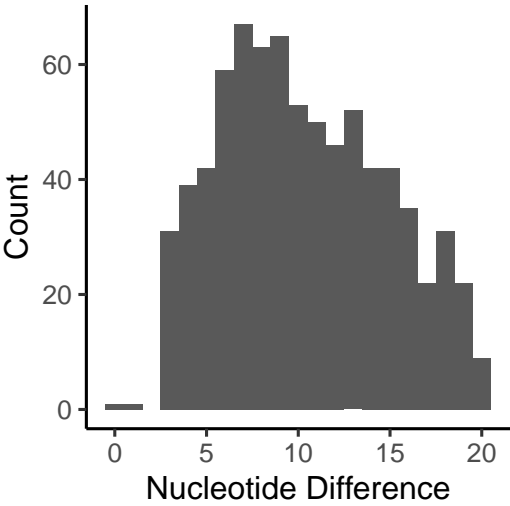
IGHV3-72*01

475 sequences assigned
No exact matches.



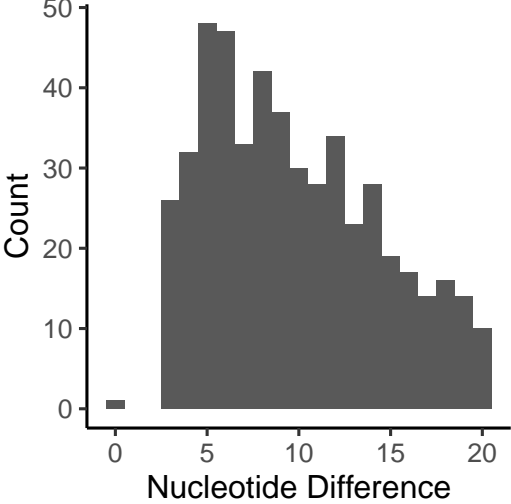
IGHV3-74*01_02

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



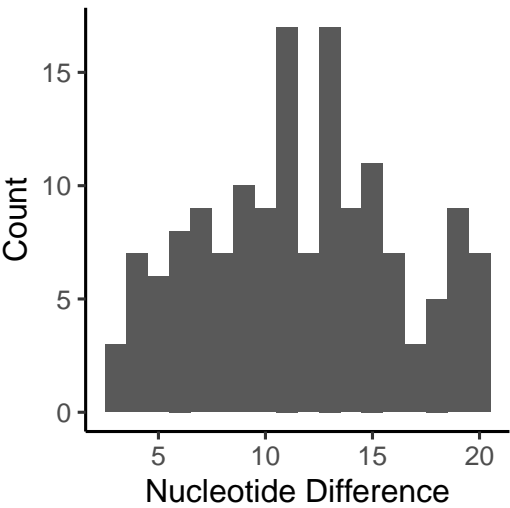
IGHV3-66*01

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



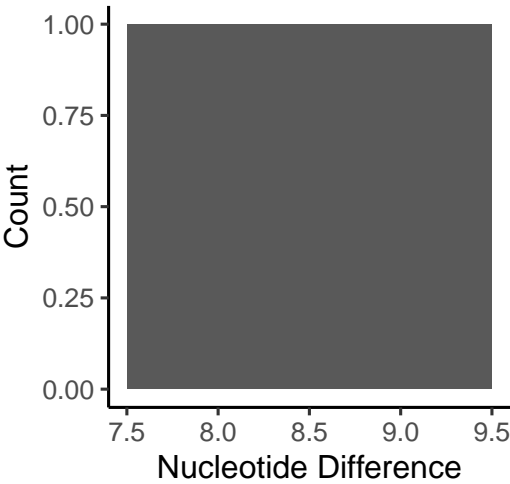
IGHV3-73*01_02

163 sequences assigned
No exact matches.



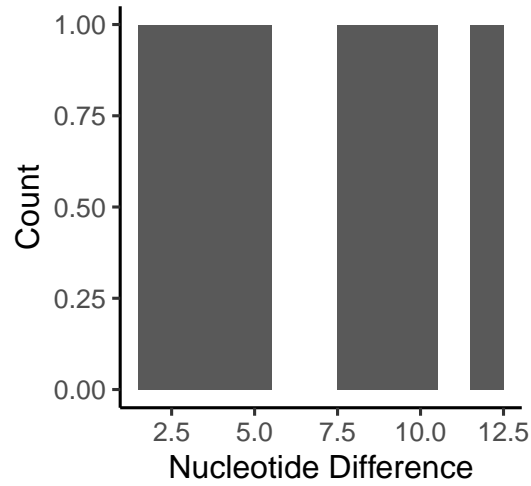
IGHV3-43D*03

2 sequences assigned
No exact matches.



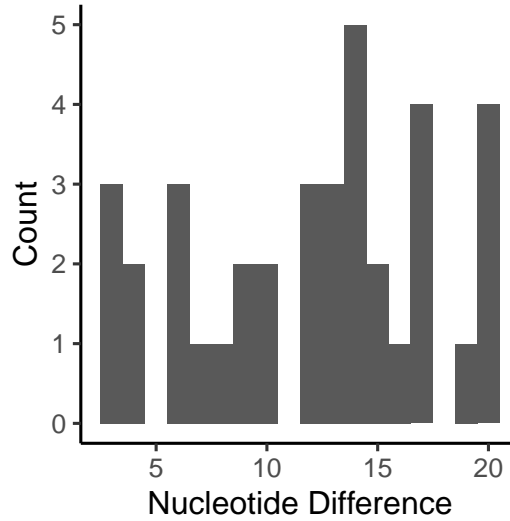
IGHV3-43D*04

11 sequences assigned
No exact matches.



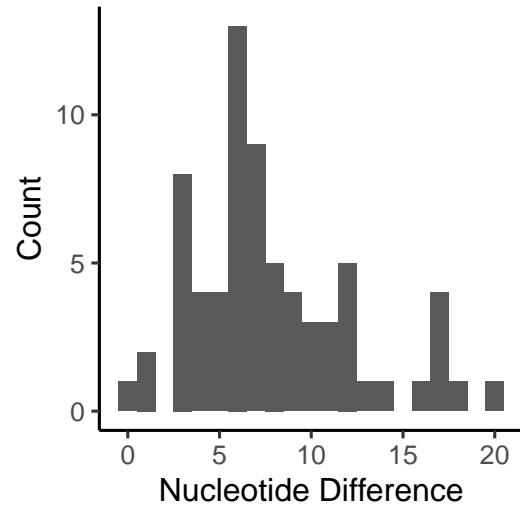
IGHV4-28*01_07

43 sequences assigned
No exact matches.



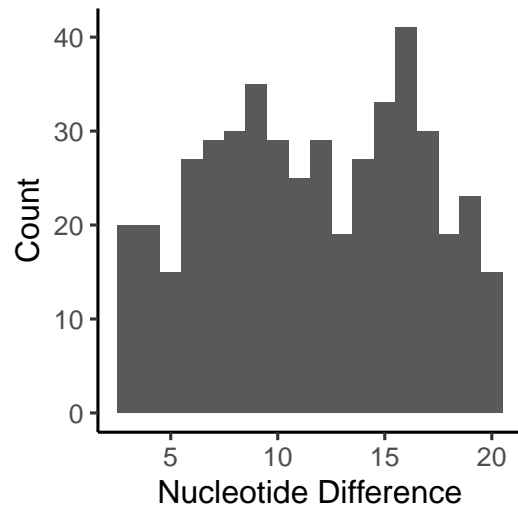
IGHV4-31*01

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



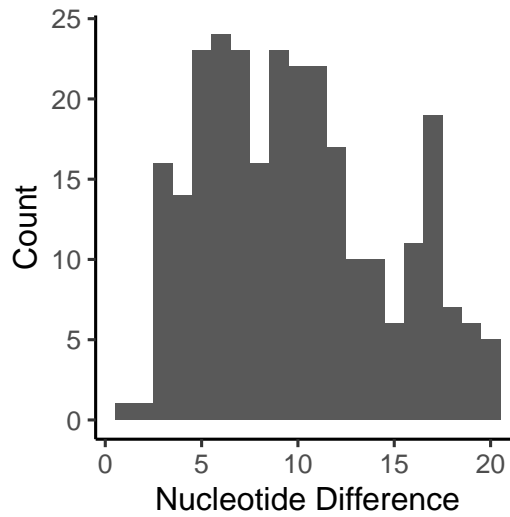
IGHV3-64D*06

548 sequences assigned
No exact matches.



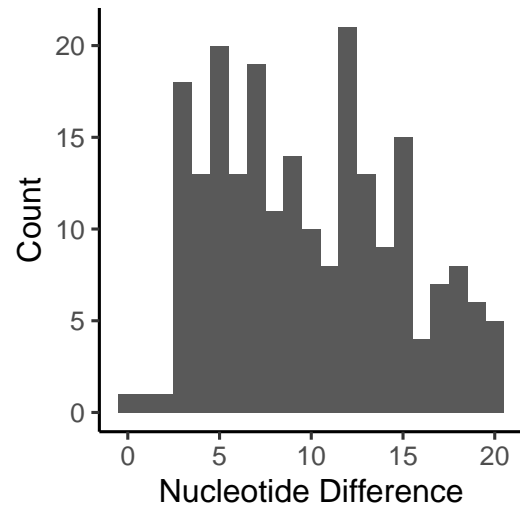
IGHV4-30-2*01

437 sequences assigned
No exact matches.



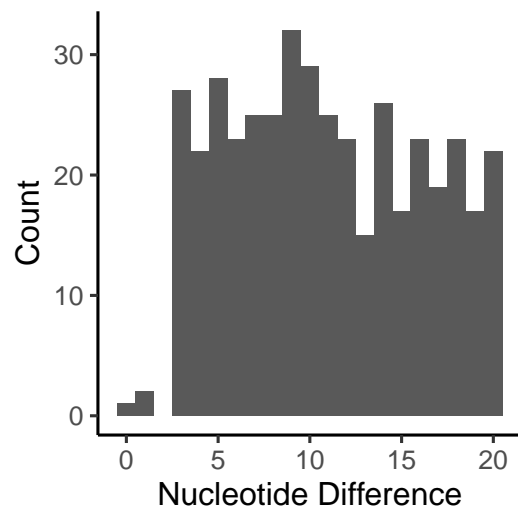
IGHV4-31*02

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



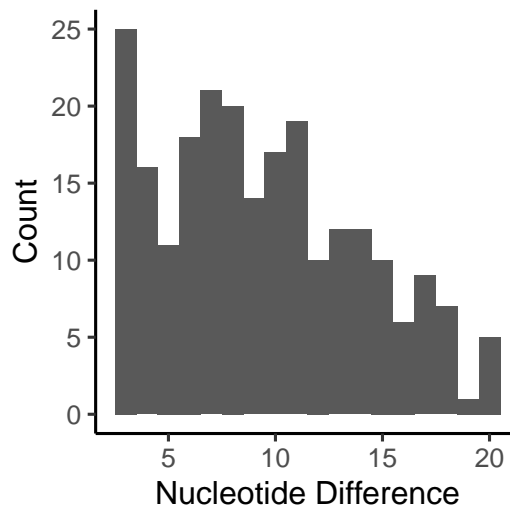
IGHV4-4*02_03

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



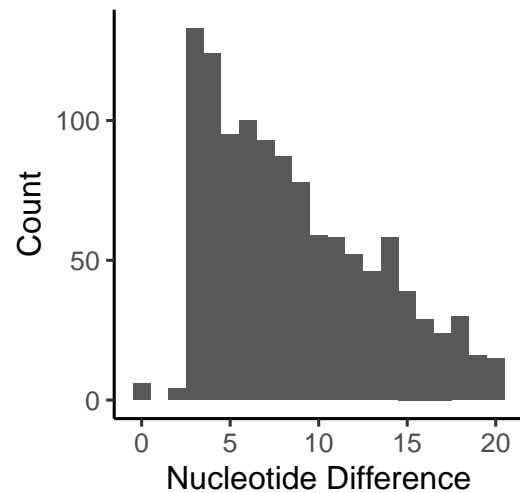
IGHV4-30-4*01

267 sequences assigned
No exact matches.



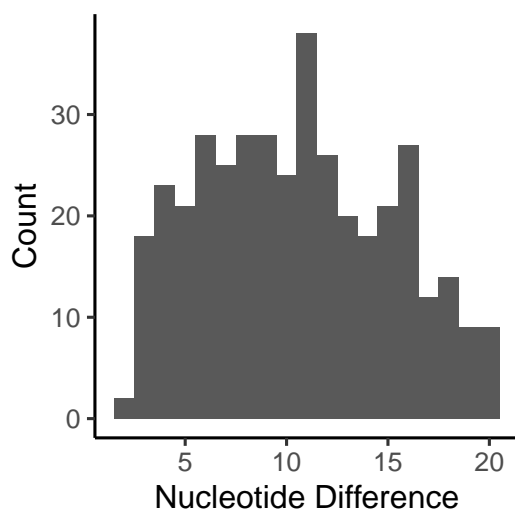
IGHV4-34*01_02

1293 sequences assigned
6 (0.5%) exact matches, in which:
4 unique CDR3
2 unique J



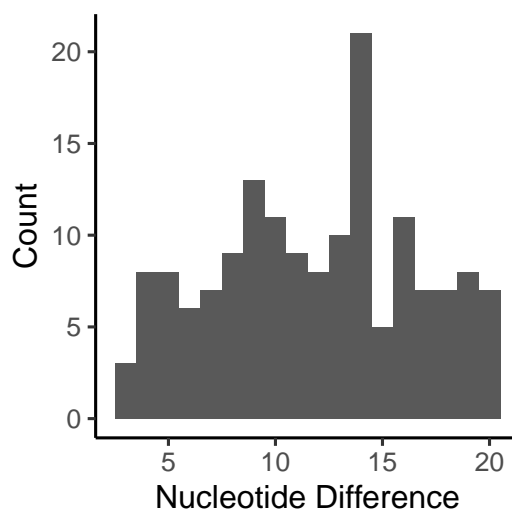
IGHV4-38-2*01

429 sequences assigned
No exact matches.



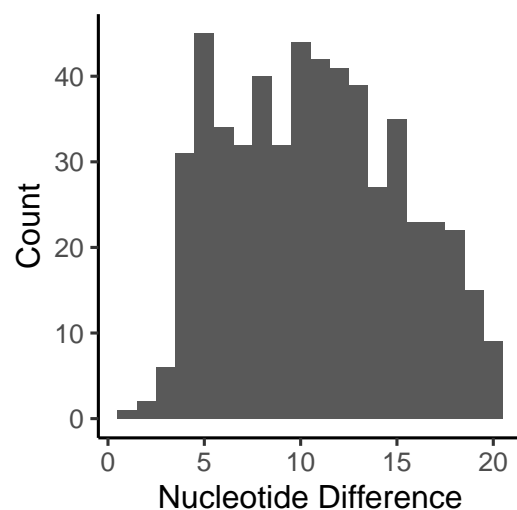
IGHV4-39*01_05

179 sequences assigned
No exact matches.



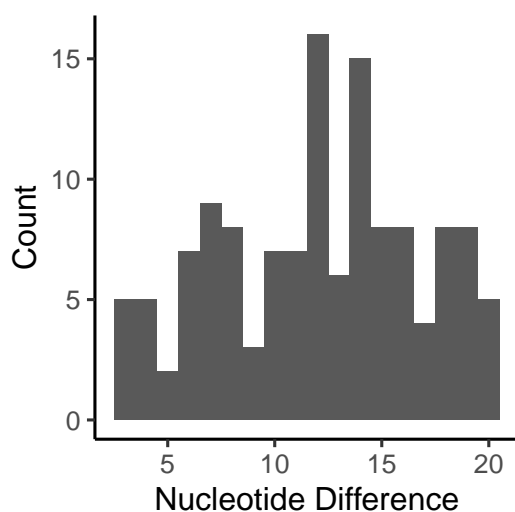
IGHV4-59*11

641 sequences assigned
No exact matches.



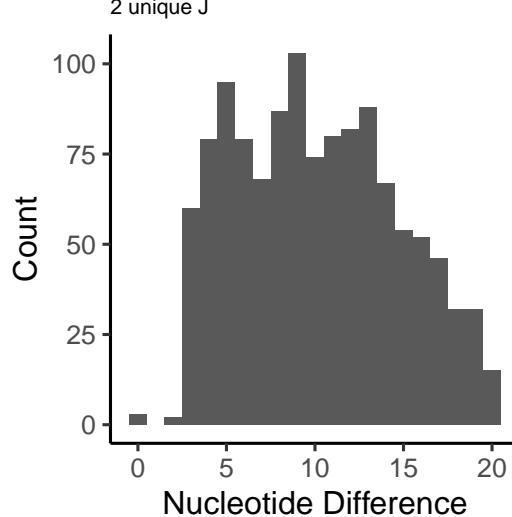
IGHV4-38-2*02

167 sequences assigned
No exact matches.



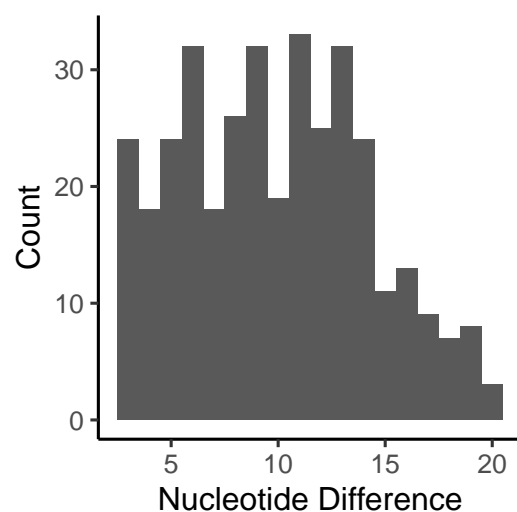
IGHV4-59*08

1382 sequences assigned
3 (0.2%) exact matches, in which:
3 unique CDR3
2 unique J



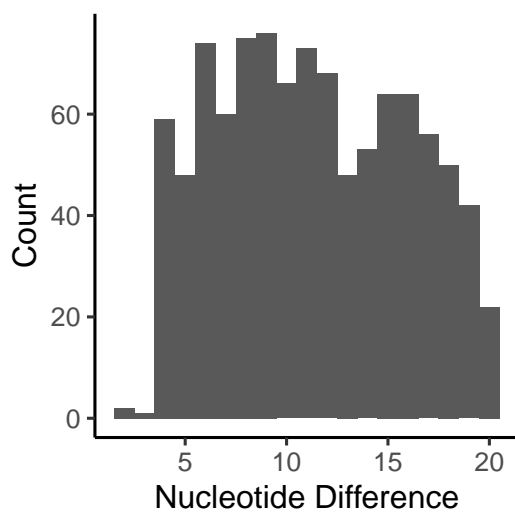
IGHV4-61*01

389 sequences assigned
No exact matches.



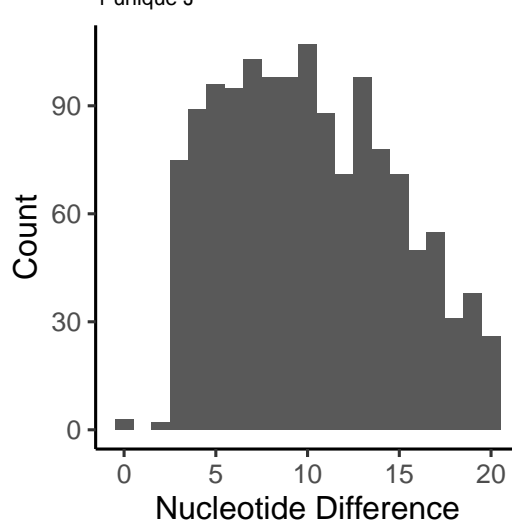
IGHV4-39*02

1165 sequences assigned
No exact matches.



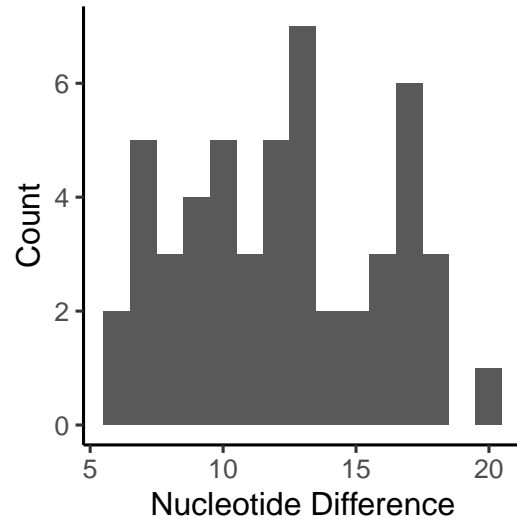
IGHV4-59*01_07

1527 sequences assigned
3 (0.2%) exact matches, in which:
1 unique CDR3
1 unique J



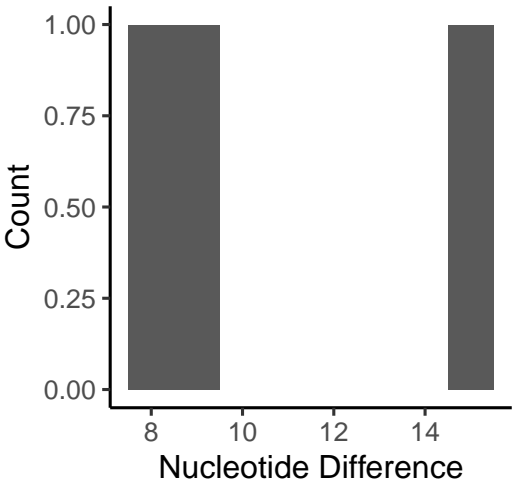
IGHV4-61*08

70 sequences assigned
No exact matches.



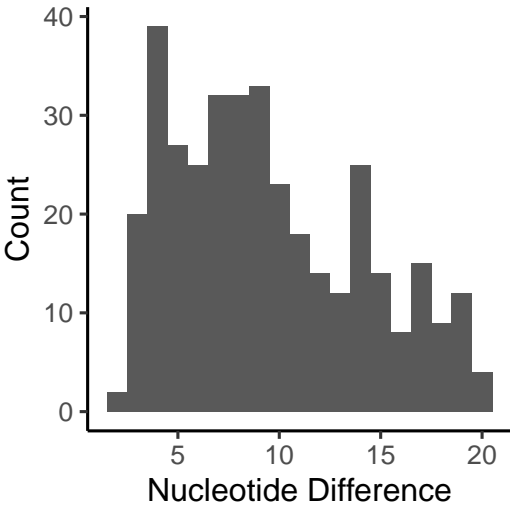
IGHV4/OR15-8*01

3 sequences assigned
No exact matches.



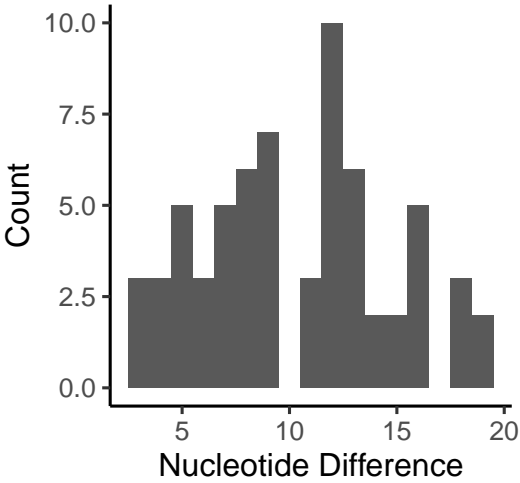
IGHV5-51*01_03

408 sequences assigned
No exact matches.



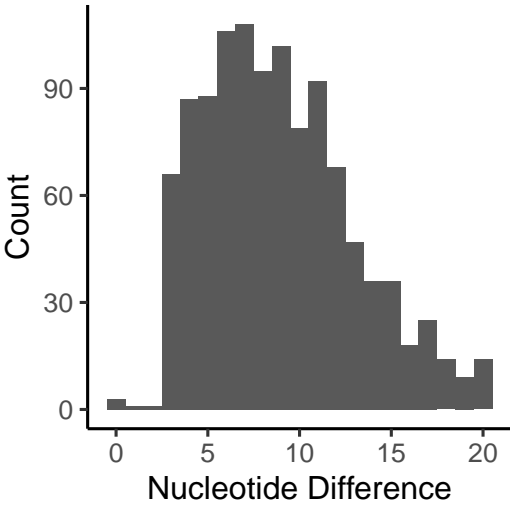
IGHV5-10-1*01_03

77 sequences assigned
No exact matches.



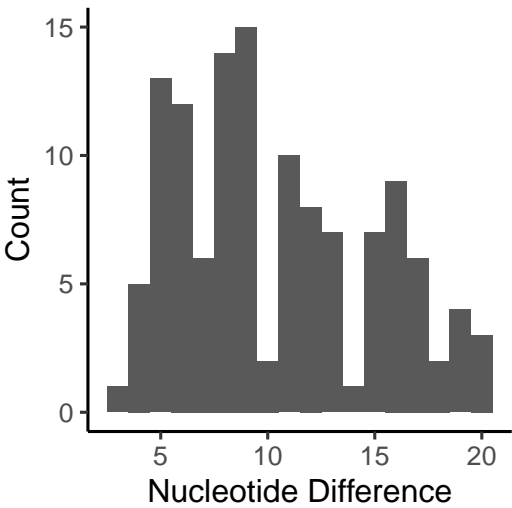
IGHV6-1*01_02

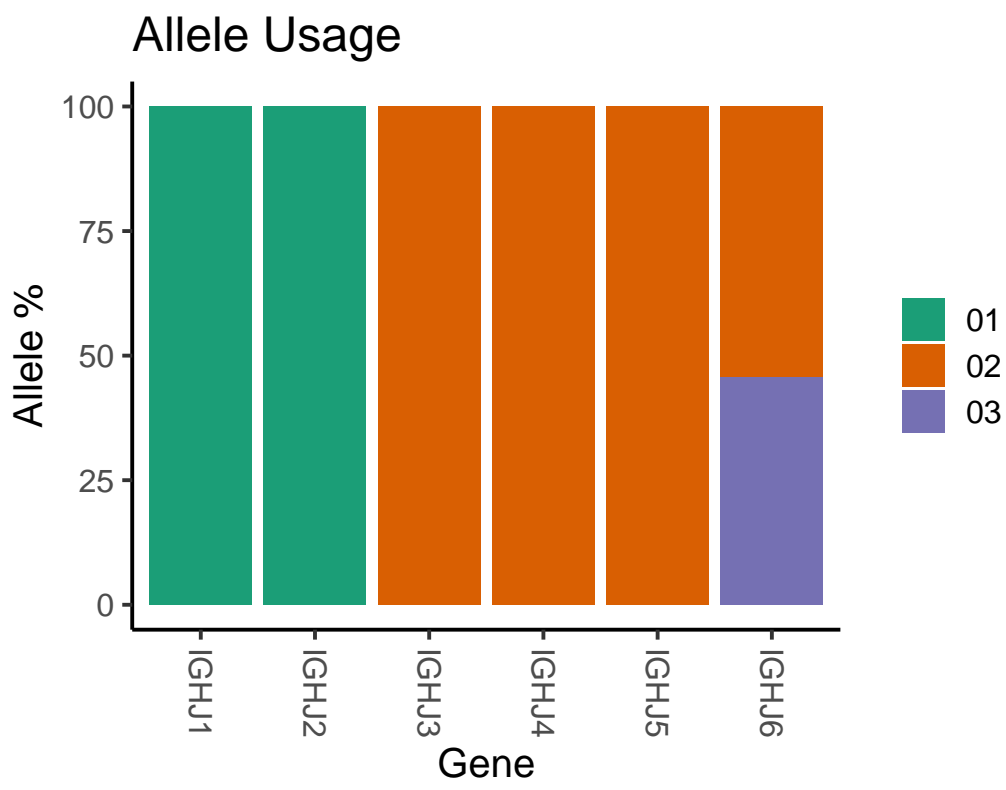
1145 sequences assigned
3 (0.3%) exact matches, in which:
3 unique CDR3
2 unique J



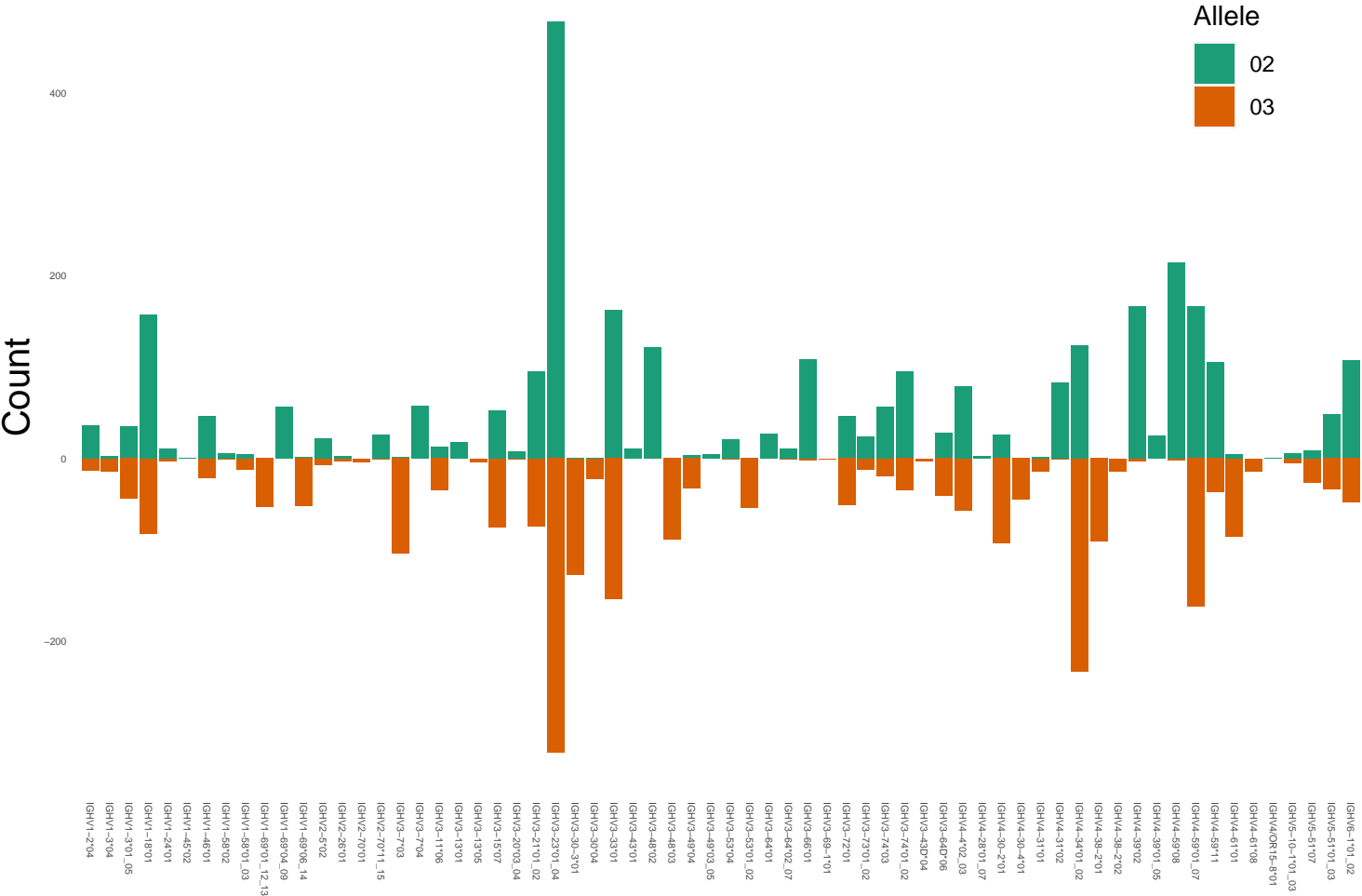
IGHV5-51*07

133 sequences assigned
No exact matches.





Sequence Count by IGHJ6 allele usage



[illegible]