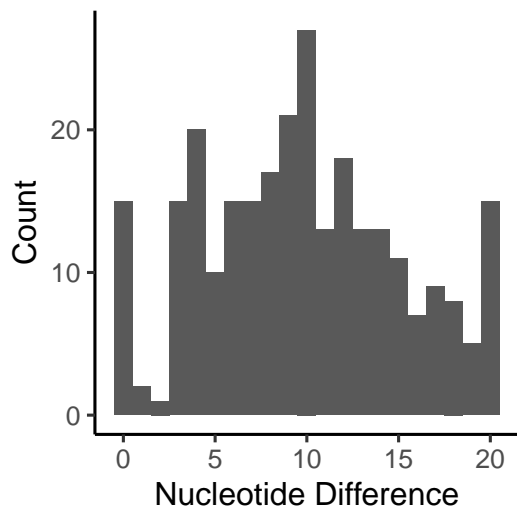


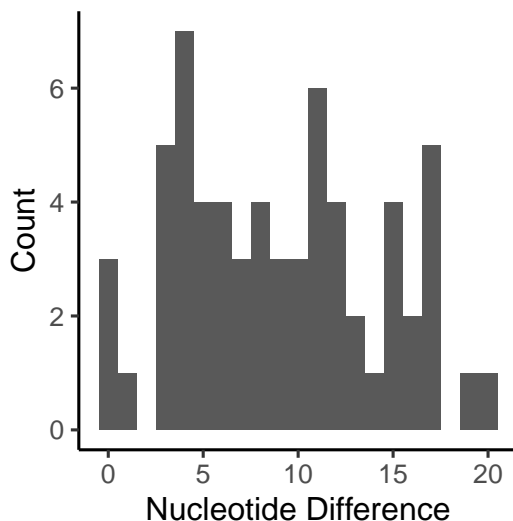
IGHV1-2*02

338 sequences assigned
15 (4.4%) exact matches, in which:
15 unique CDR3
5 unique J



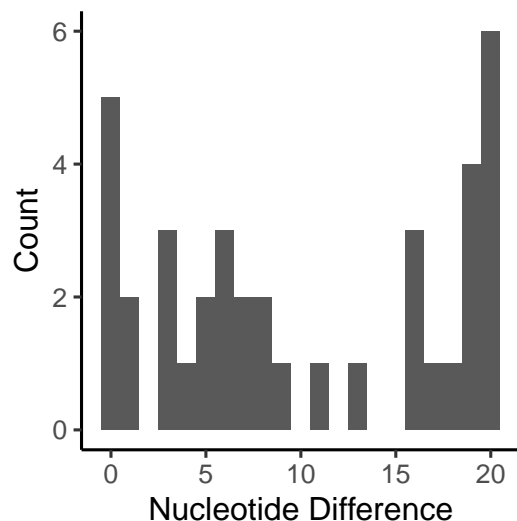
IGHV1-3*01_05

74 sequences assigned
3 (4.1%) exact matches, in which:
3 unique CDR3
3 unique J



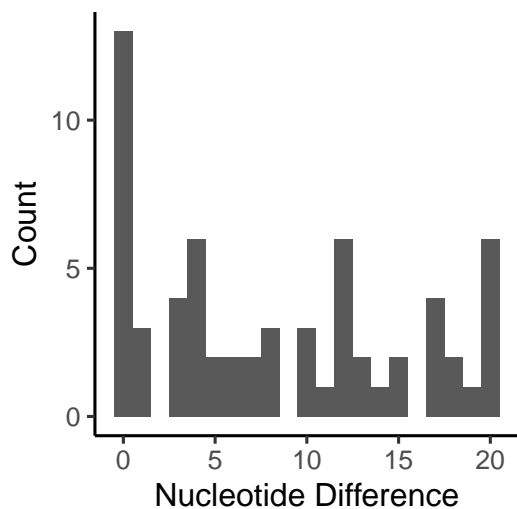
IGHV1-24*01

51 sequences assigned
5 (9.8%) exact matches, in which:
3 unique CDR3
2 unique J



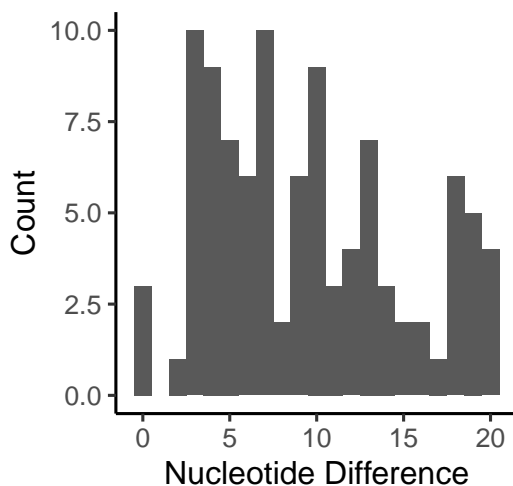
IGHV1-2*04

68 sequences assigned
13 (19.1%) exact matches, in which:
13 unique CDR3
4 unique J



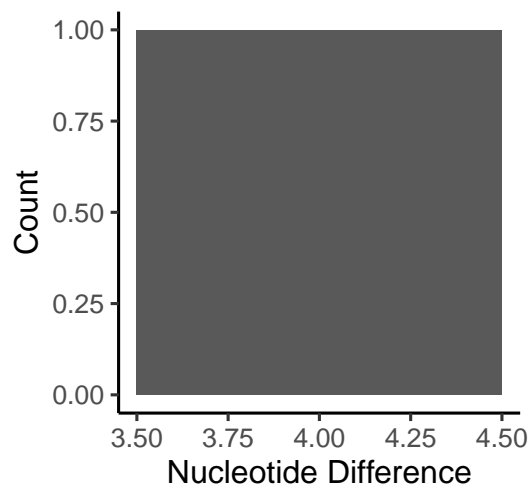
IGHV1-8*01

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



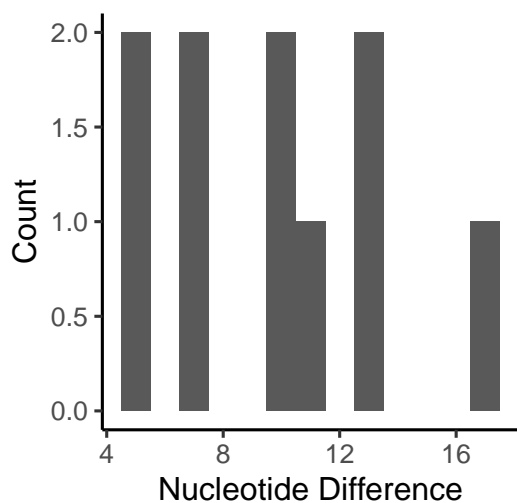
IGHV1-45*02

1 sequences assigned
No exact matches.



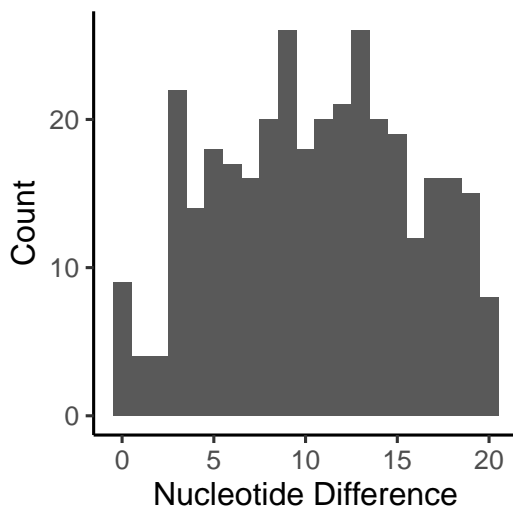
IGHV1-3*04

11 sequences assigned
No exact matches.



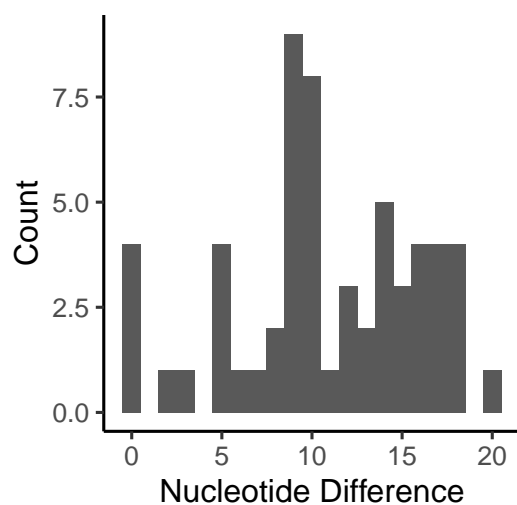
IGHV1-18*01

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



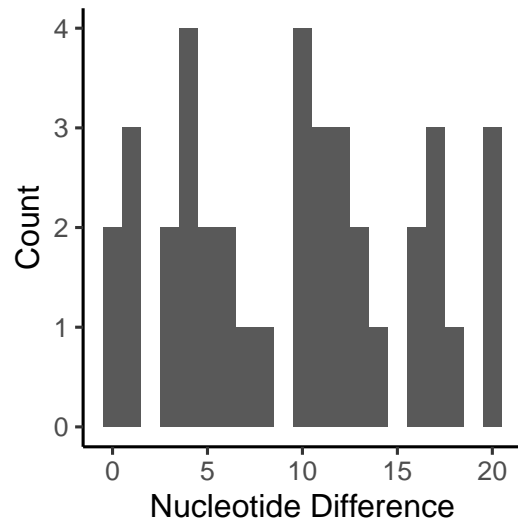
IGHV1-46*01

78 sequences assigned
4 (5.1%) exact matches, in which:
4 unique CDR3
2 unique J



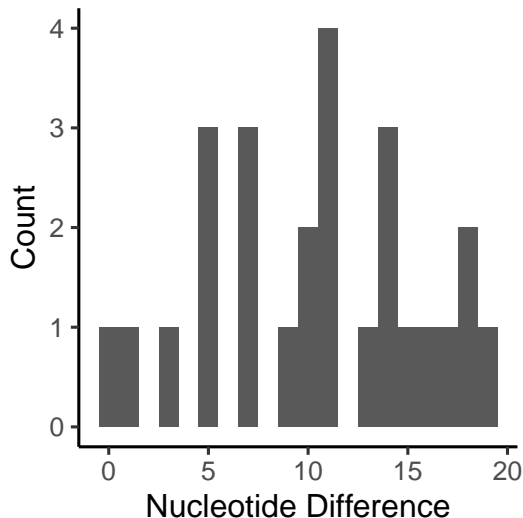
IGHV1-46*03

42 sequences assigned
2 (4.8%) exact matches, in which:
2 unique CDR3
2 unique J



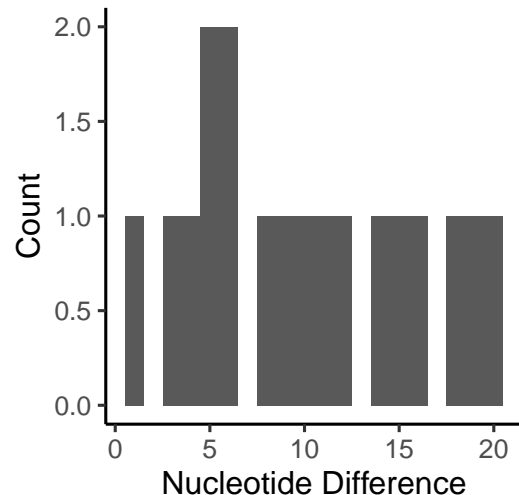
IGHV1-69*02

46 sequences assigned
1 (2.2%) exact matches, in which:
1 unique CDR3
1 unique J



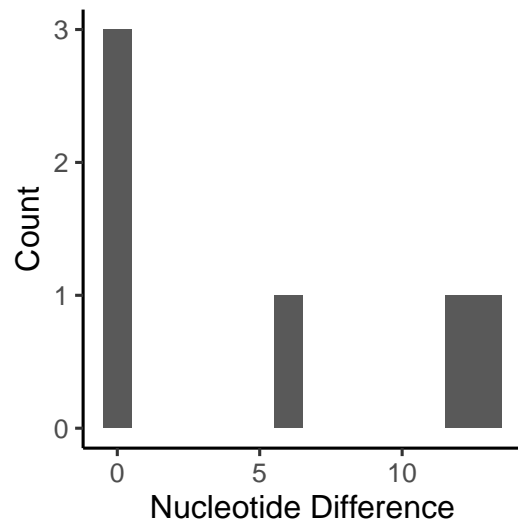
IGHV2-26*01

18 sequences assigned
No exact matches.



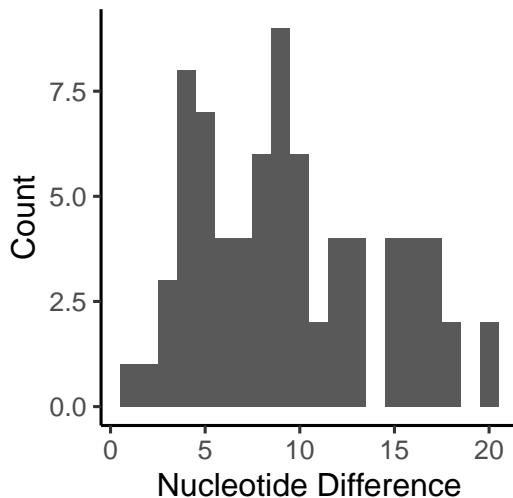
IGHV1-58*02

9 sequences assigned
3 (33.3%) exact matches, in which:
2 unique CDR3
2 unique J



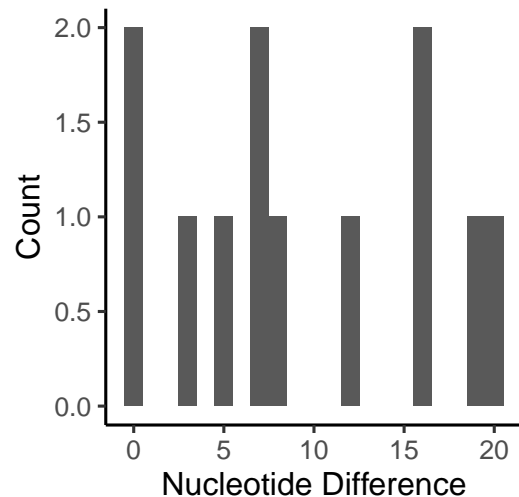
IGHV2-5*01

78 sequences assigned
No exact matches.



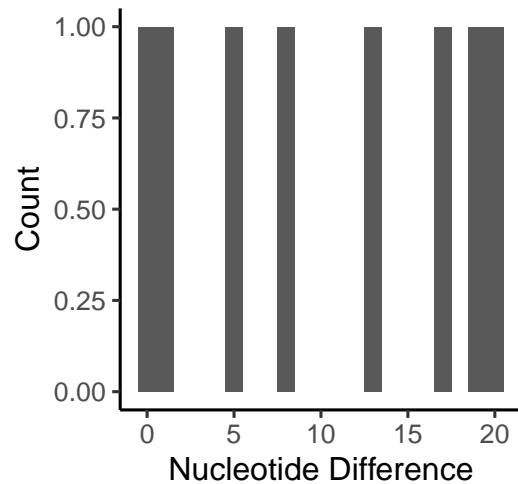
IGHV2-70*01

15 sequences assigned
2 (13.3%) exact matches, in which:
2 unique CDR3
2 unique J



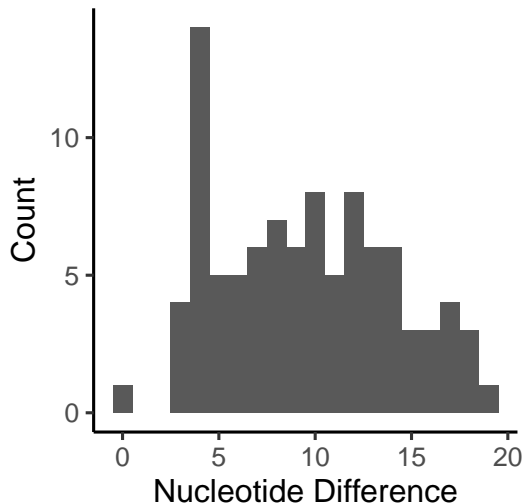
IGHV1-58*01_03

12 sequences assigned
1 (8.3%) exact matches, in which:
1 unique CDR3
1 unique J



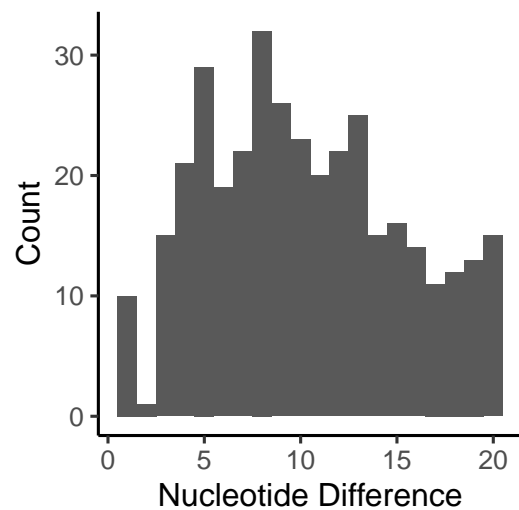
IGHV2-5*02

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



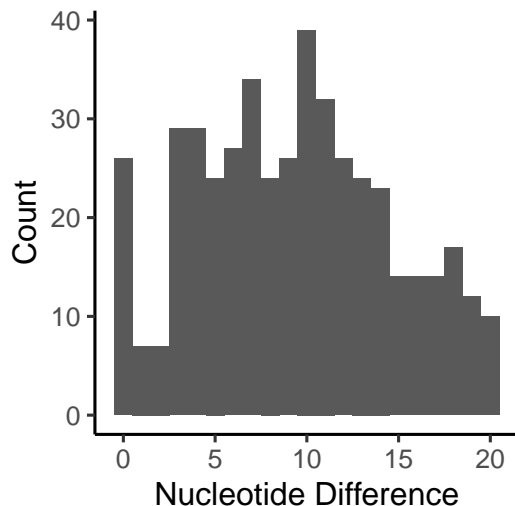
IGHV3-7*01

390 sequences assigned
No exact matches.



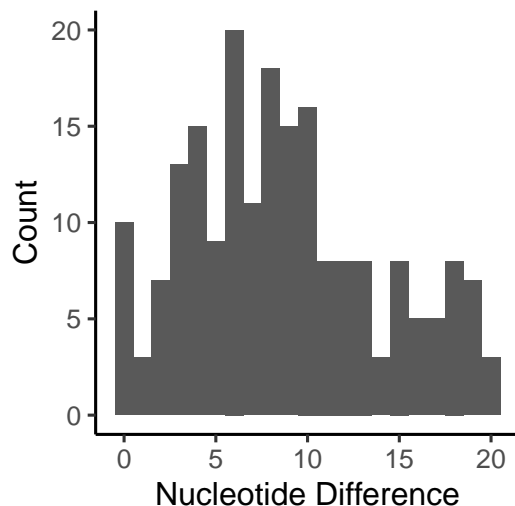
IGHV3-7*03

524 sequences assigned
26 (5%) exact matches, in which:
15 unique CDR3
3 unique J



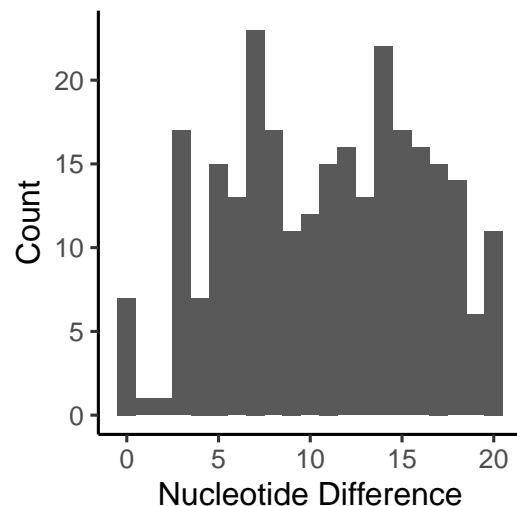
IGHV3-11*03_05

248 sequences assigned
10 (4%) exact matches, in which:
8 unique CDR3
4 unique J



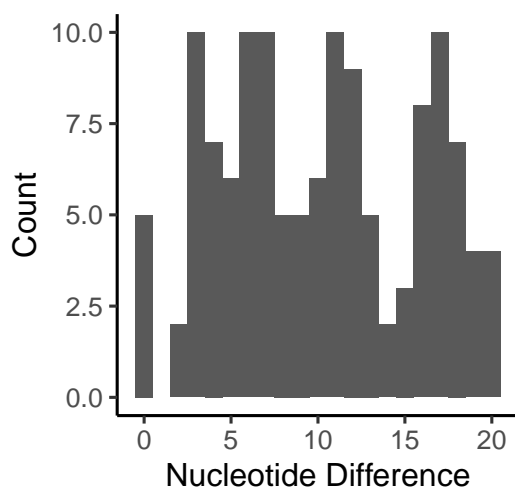
IGHV3-15*01_02

329 sequences assigned
7 (2.1%) exact matches, in which:
5 unique CDR3
2 unique J



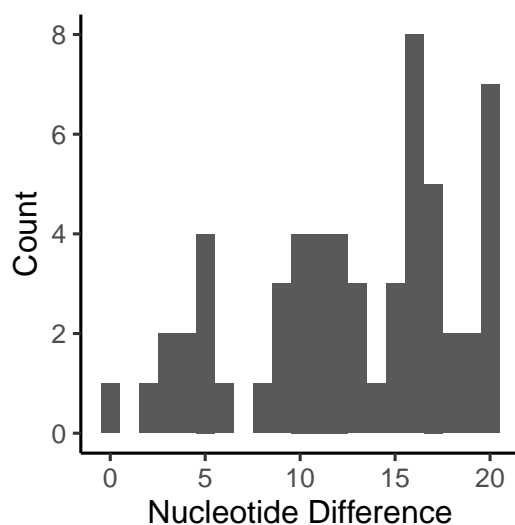
IGHV3-9*01

150 sequences assigned
5 (3.3%) exact matches, in which:
5 unique CDR3
3 unique J



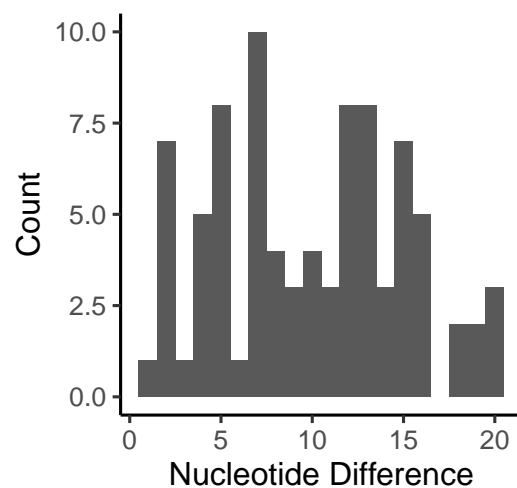
IGHV3-13*01

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



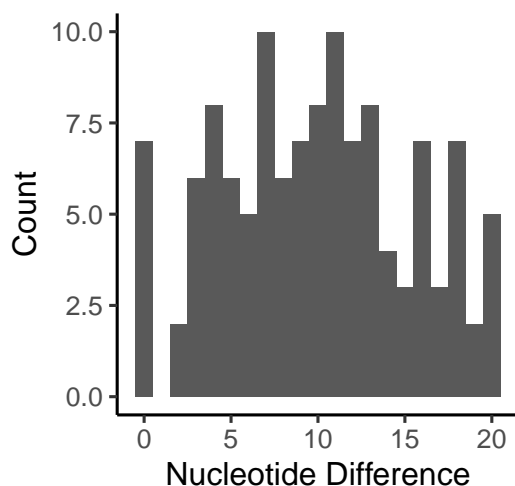
IGHV3-20*03_04

98 sequences assigned
No exact matches.



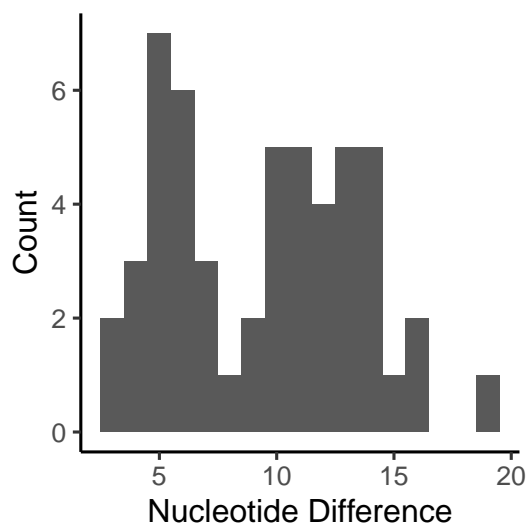
IGHV3-11*01

145 sequences assigned
7 (4.8%) exact matches, in which:
5 unique CDR3
2 unique J



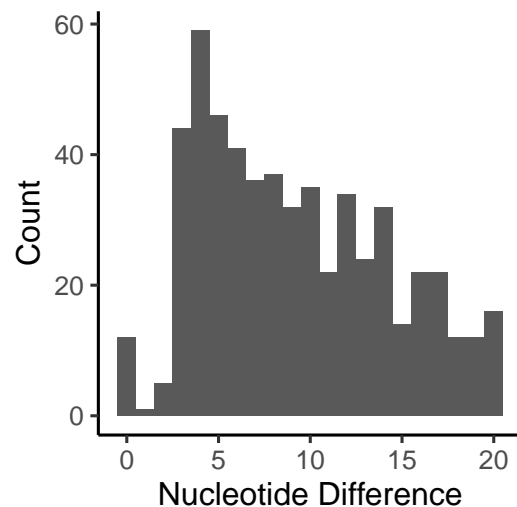
IGHV3-13*04

59 sequences assigned
No exact matches.



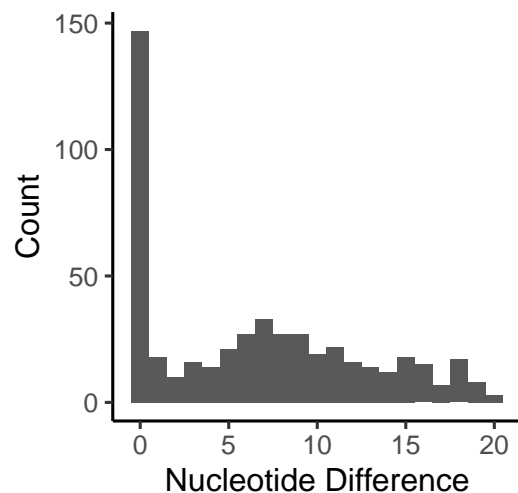
IGHV3-21*01_02

703 sequences assigned
12 (1.7%) exact matches, in which:
9 unique CDR3
4 unique J



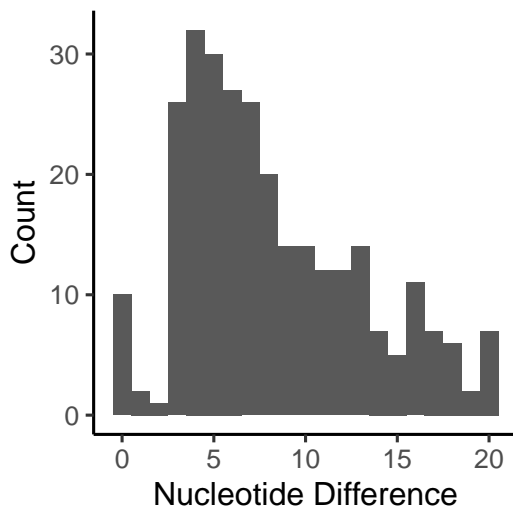
IGHV3-33*01

560 sequences assigned
147 (26.2%) exact matches, in which:
106 unique CDR3
6 unique J



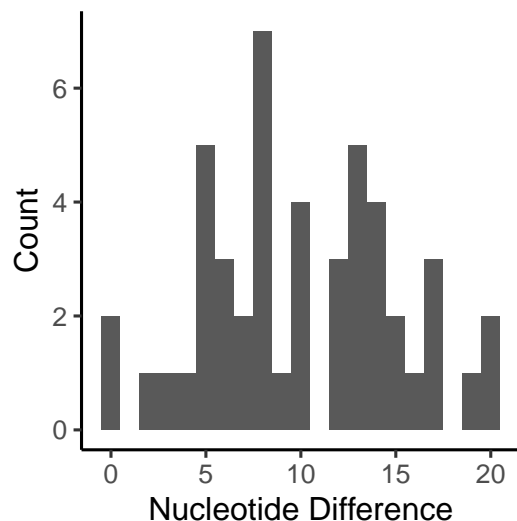
IGHV3-48*01

327 sequences assigned
10 (3.1%) exact matches, in which:
6 unique CDR3
3 unique J



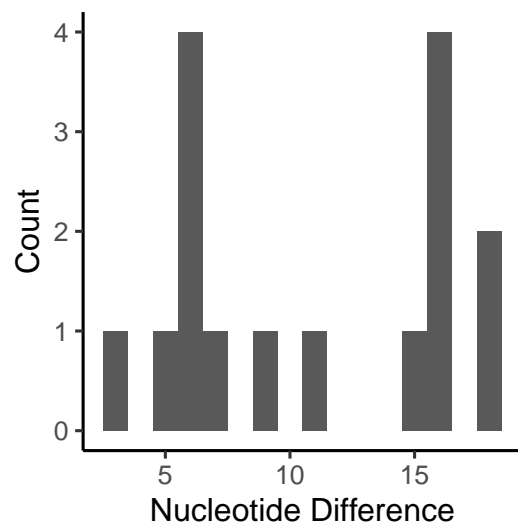
IGHV3-49*03_05

56 sequences assigned
2 (3.6%) exact matches, in which:
2 unique CDR3
2 unique J



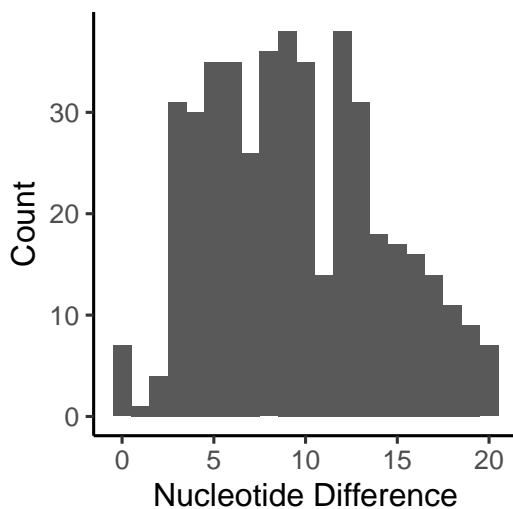
IGHV3-43*01

18 sequences assigned
No exact matches.



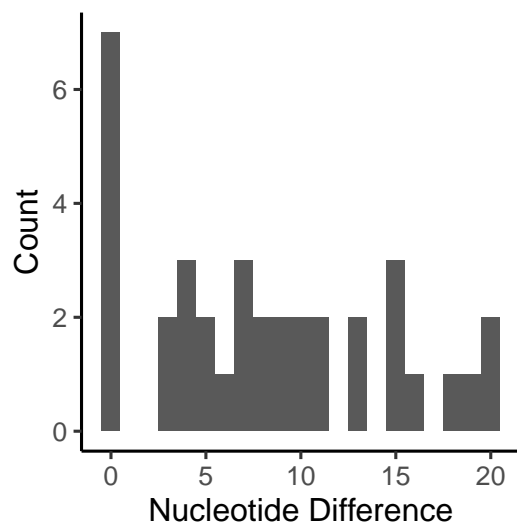
IGHV3-48*03

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



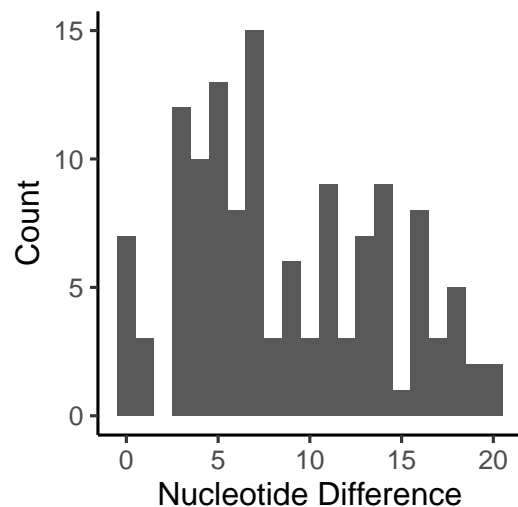
IGHV3-53*04

40 sequences assigned
7 (17.5%) exact matches, in which:
5 unique CDR3
2 unique J



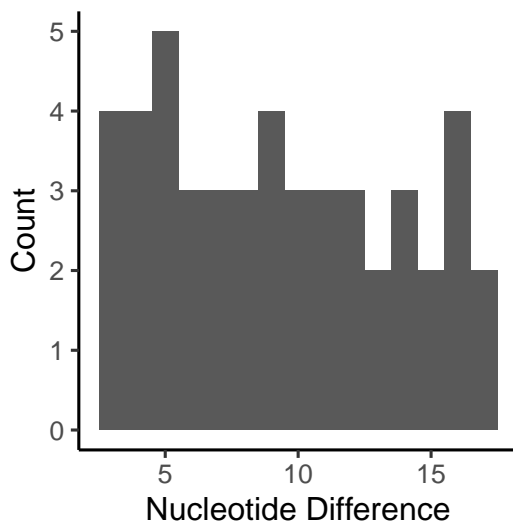
IGHV3-43*02

154 sequences assigned
7 (4.5%) exact matches, in which:
3 unique CDR3
2 unique J



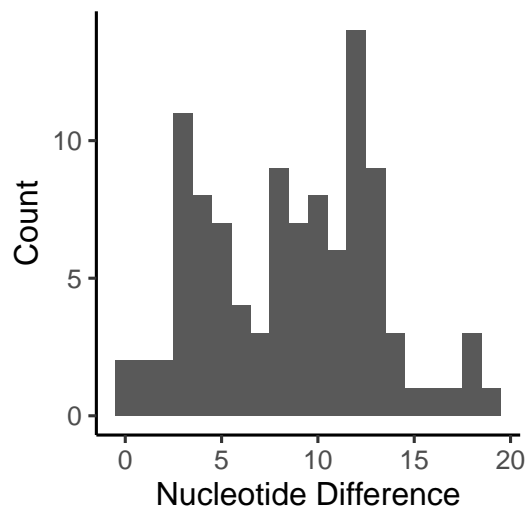
IGHV3-49*04

62 sequences assigned
No exact matches.



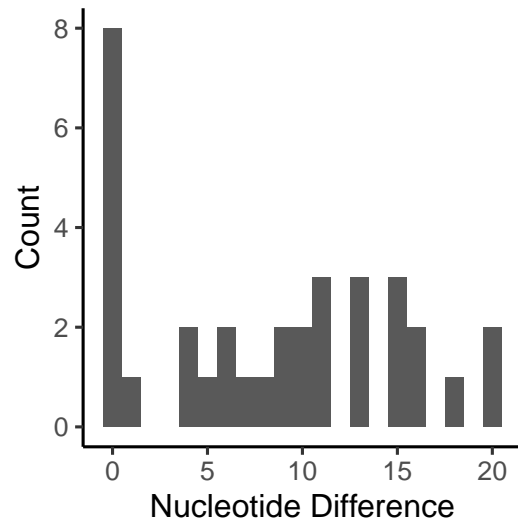
IGHV3-53*01_02

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



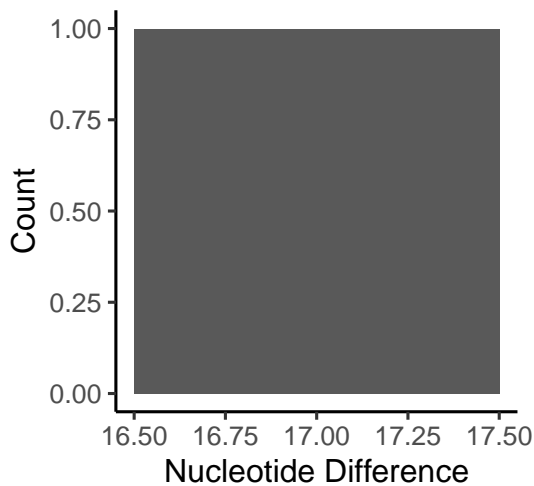
IGHV3-64*01

36 sequences assigned
8 (22.2%) exact matches, in which:
5 unique CDR3
1 unique J



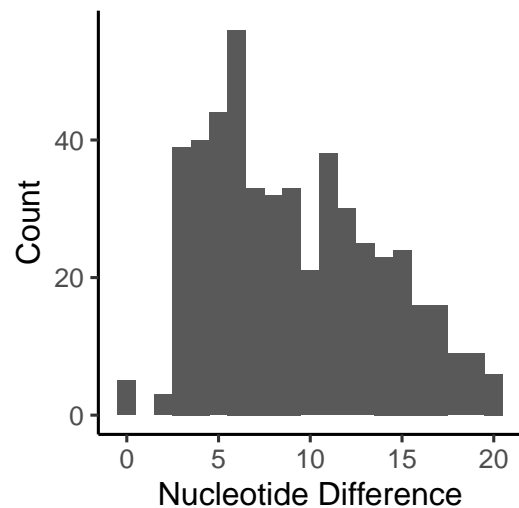
IGHV3-69-1*01

2 sequences assigned
No exact matches.



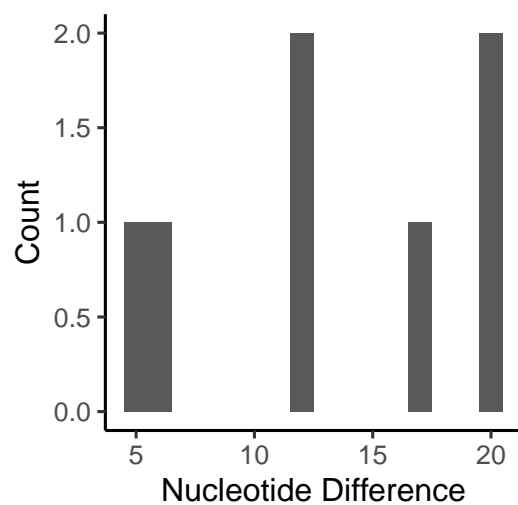
IGHV3-74*01_02

550 sequences assigned
5 (0.9%) exact matches, in which:
3 unique CDR3
3 unique J



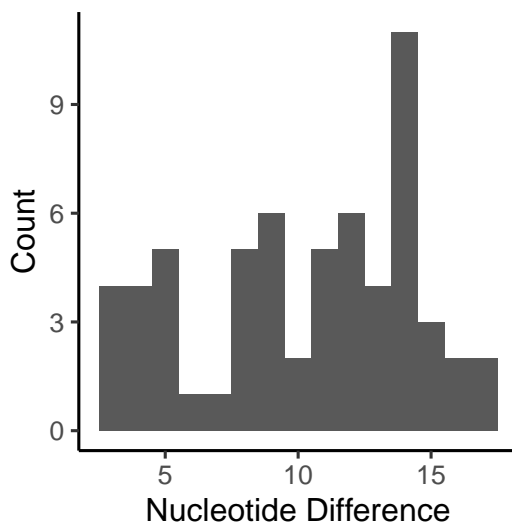
IGHV3-64*02_07

8 sequences assigned
No exact matches.



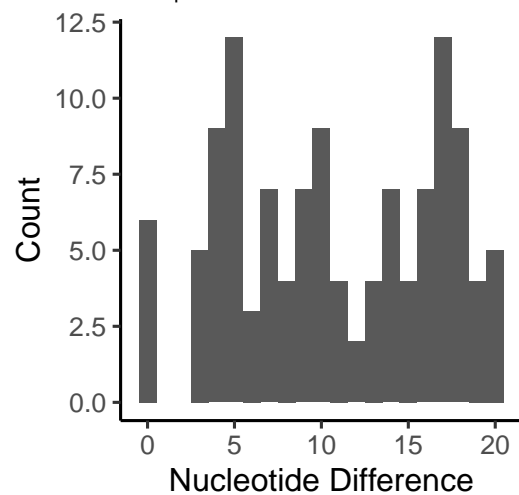
IGHV3-72*01

63 sequences assigned
No exact matches.



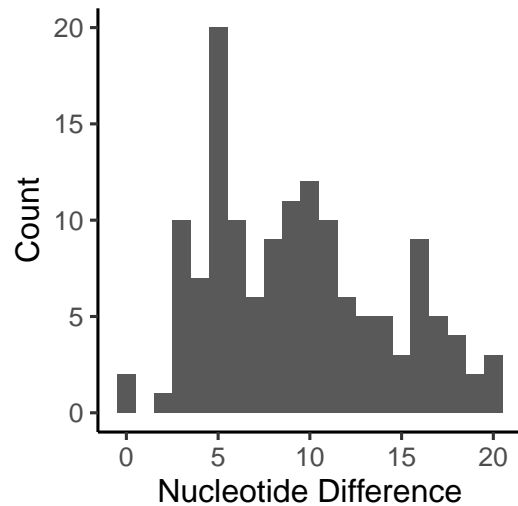
IGHV3-64D*06

183 sequences assigned
6 (3.3%) exact matches, in which:
5 unique CDR3
2 unique J



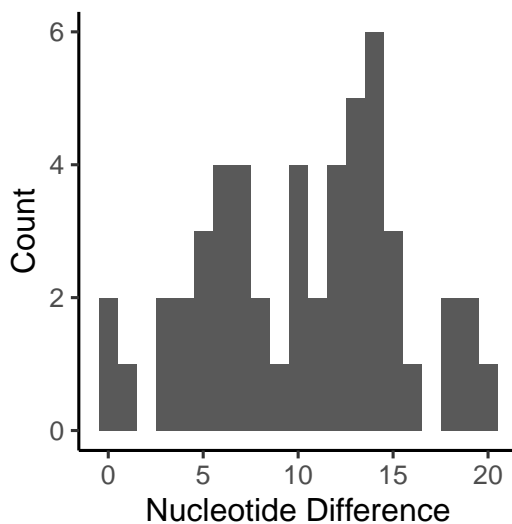
IGHV3-66*02

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



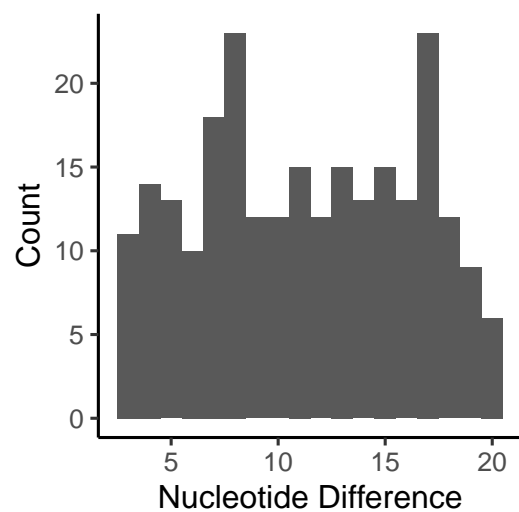
IGHV3-73*01_02

59 sequences assigned
2 (3.4%) exact matches, in which:
2 unique CDR3
2 unique J



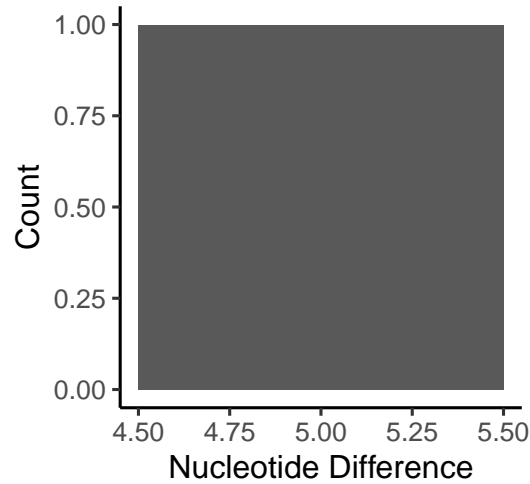
IGHV4-4*07

280 sequences assigned
No exact matches.



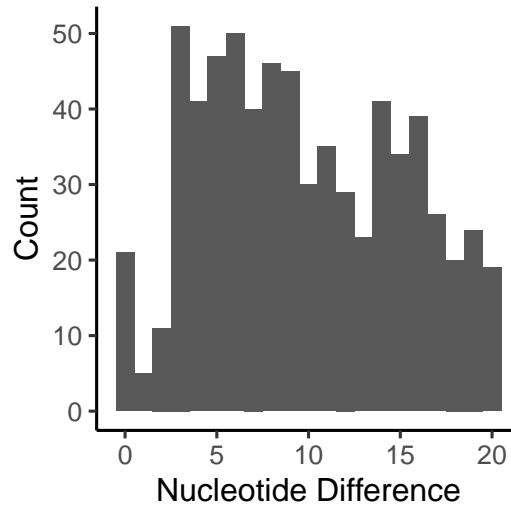
IGHV4-28*01_07

3 sequences assigned
No exact matches.



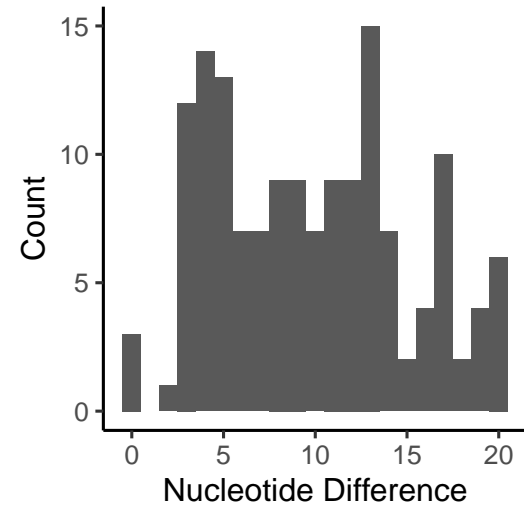
IGHV4-34*01_02

817 sequences assigned
21 (2.6%) exact matches, in which:
13 unique CDR3
5 unique J



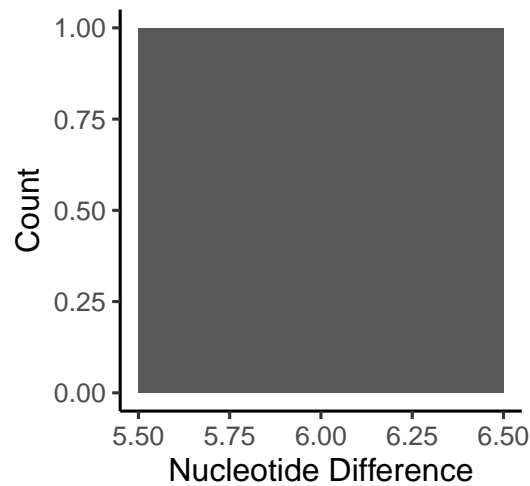
IGHV4-61*01

203 sequences assigned
3 (1.5%) exact matches, in which:
2 unique CDR3
2 unique J



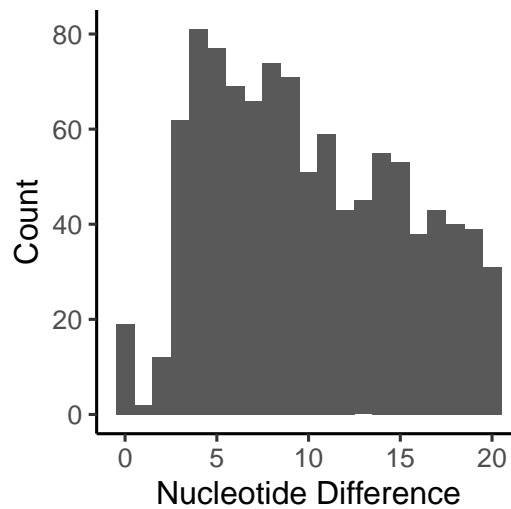
IGHV4-28*02_05

2 sequences assigned
No exact matches.



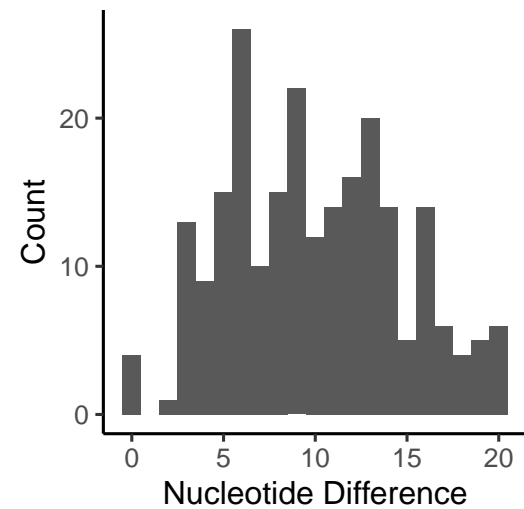
IGHV4-39*01_05

1328 sequences assigned
19 (1.4%) exact matches, in which:
14 unique CDR3
5 unique J



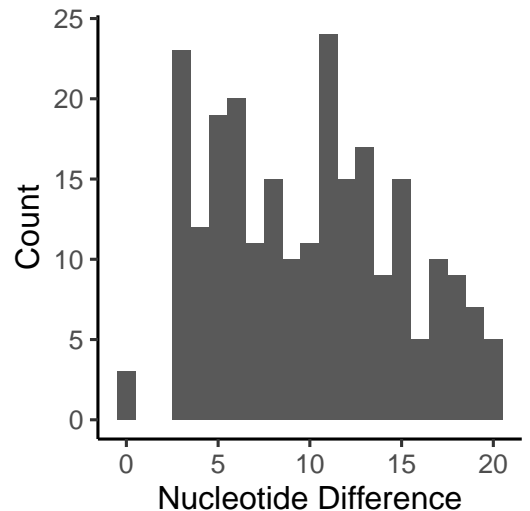
IGHV4-61*02

281 sequences assigned
4 (1.4%) exact matches, in which:
3 unique CDR3
2 unique J



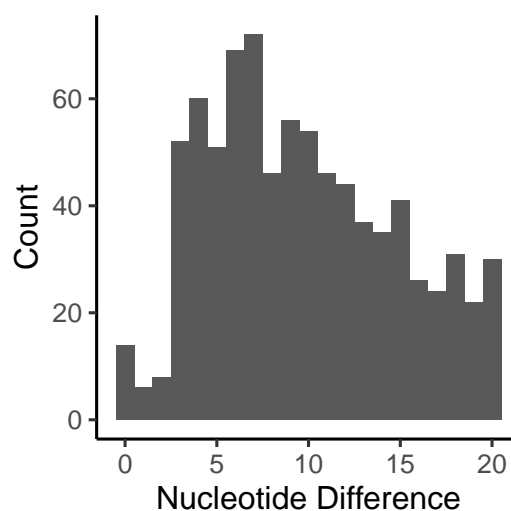
IGHV4-31*03_04

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



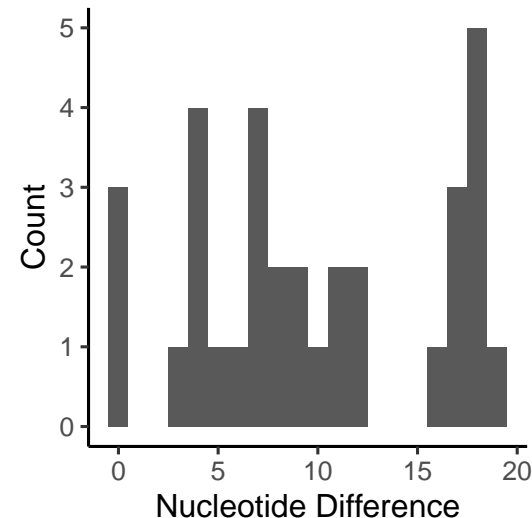
IGHV4-59*01_07

1060 sequences assigned
14 (1.3%) exact matches, in which:
9 unique CDR3
3 unique J



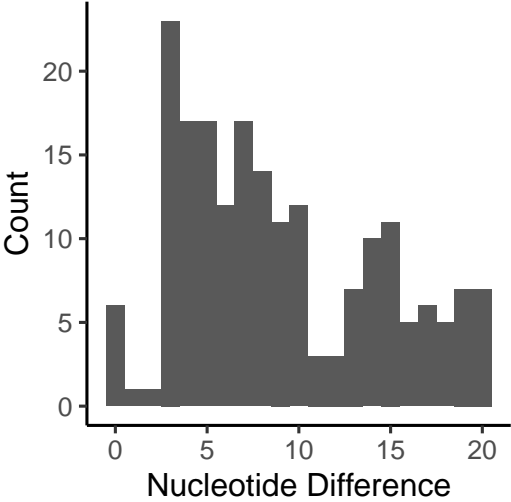
IGHV5-10-1*01_03

42 sequences assigned
3 (7.1%) exact matches, in which:
3 unique CDR3
2 unique J



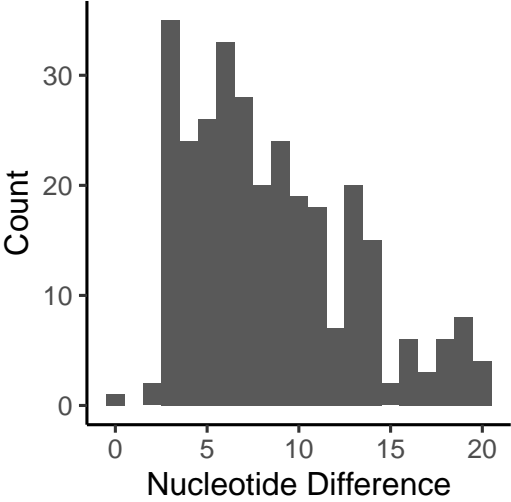
IGHV5-51*01_03

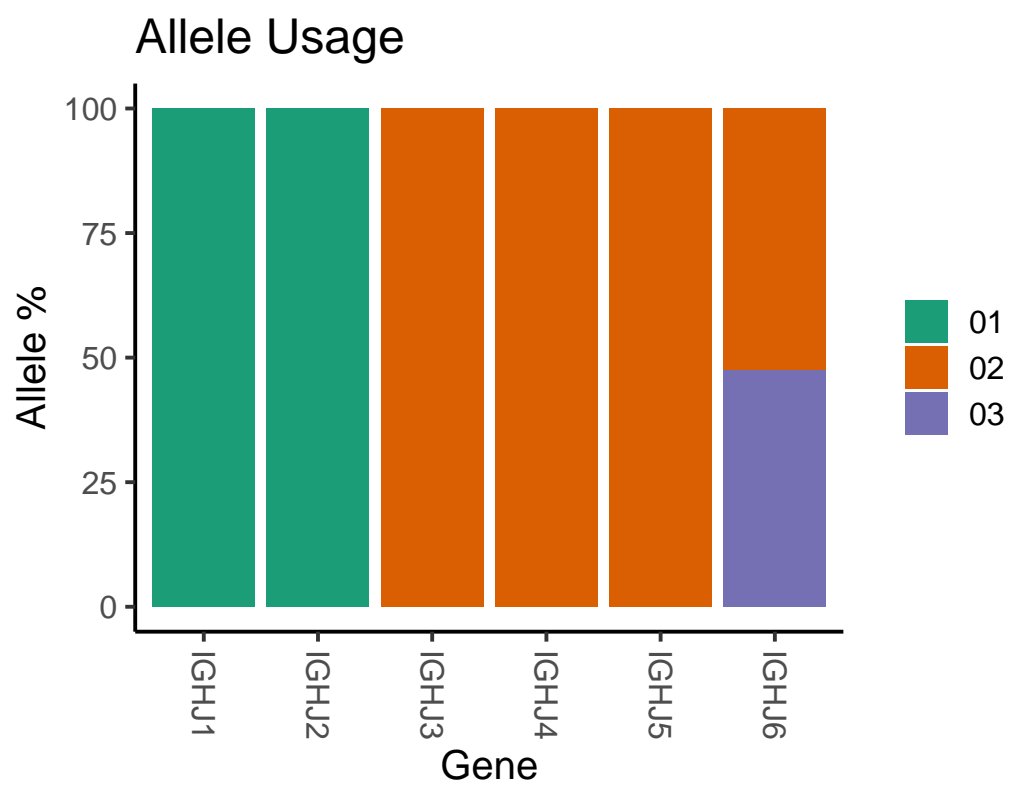
208 sequences assigned
6 (2.9%) exact matches, in which:
5 unique CDR3
3 unique J



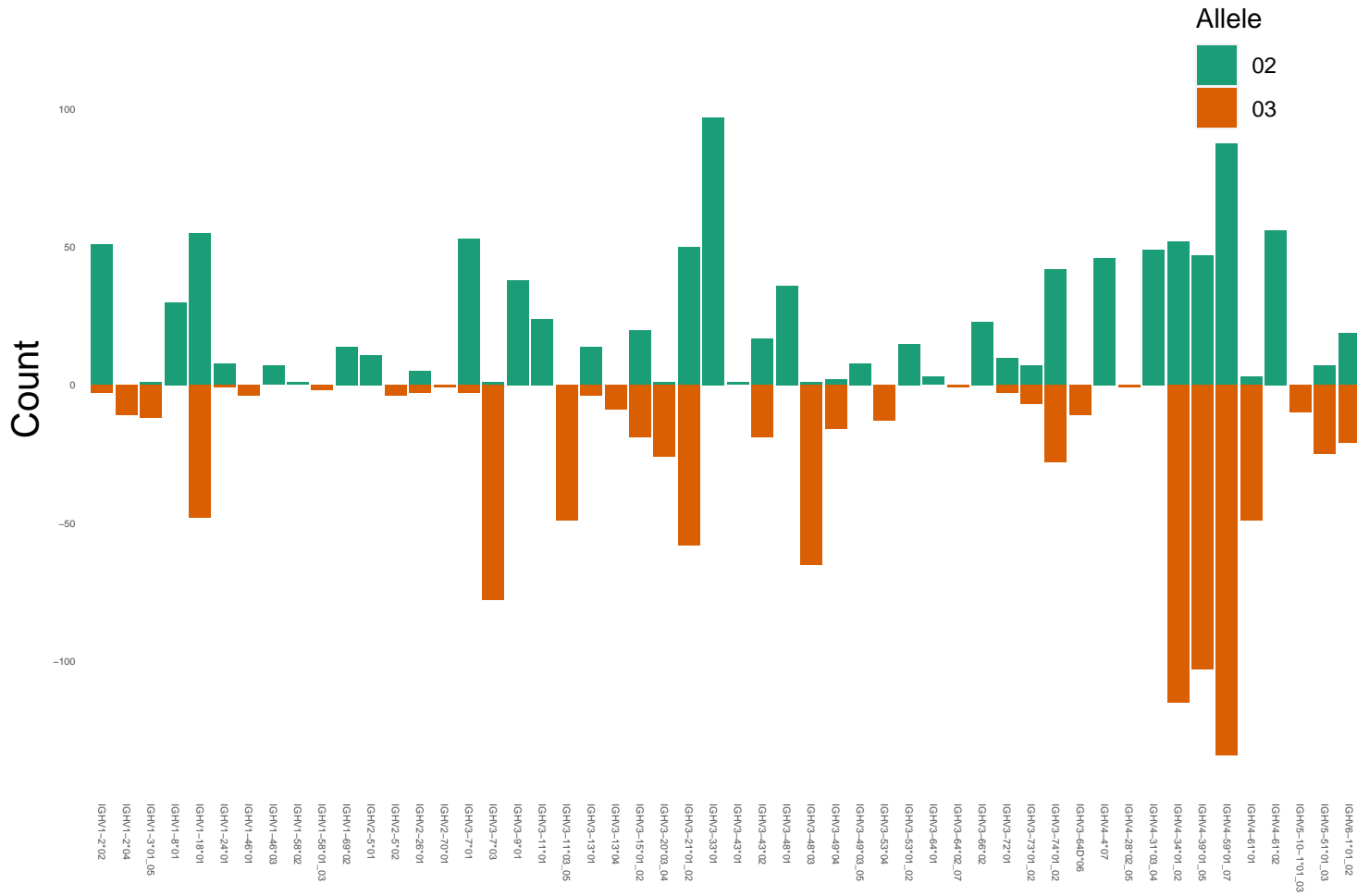
IGHV6-1*01_02

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





Sequence Count by IGHJ6 allele usage



Warning – no inferred sequences found.