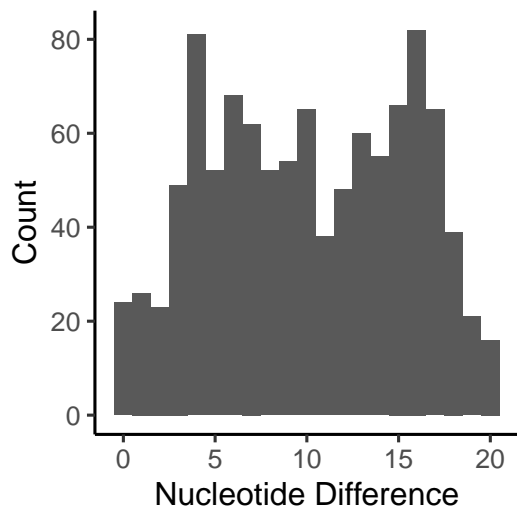


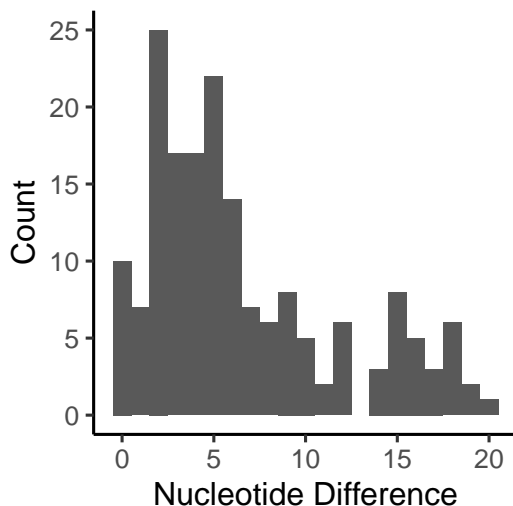
IGHV1-2*02

1124 sequences assigned
24 (2.1%) exact matches, in which:
20 unique CDR3
3 unique J



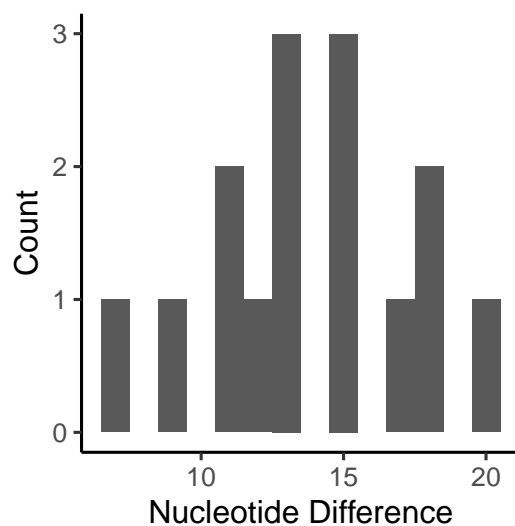
IGHV1-8*03

182 sequences assigned
10 (5.5%) exact matches, in which:
10 unique CDR3
3 unique J



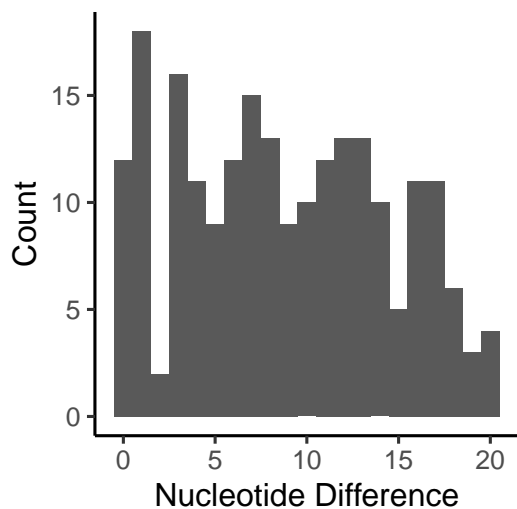
IGHV1-45*02

28 sequences assigned
No exact matches.



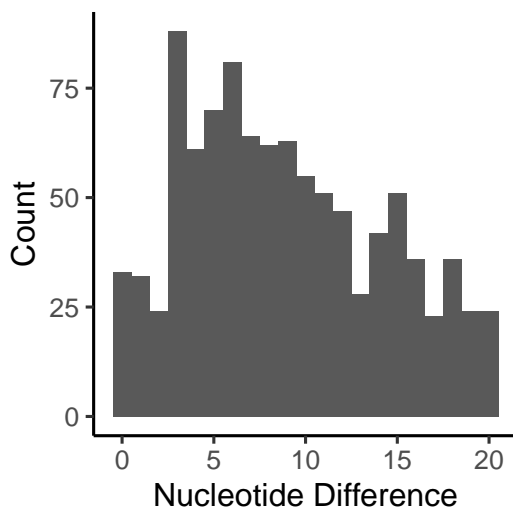
IGHV1-3*01_05

234 sequences assigned
12 (5.1%) exact matches, in which:
7 unique CDR3
3 unique J



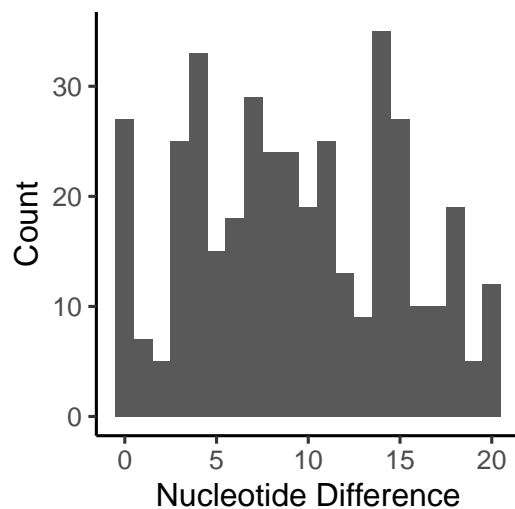
IGHV1-18*04

1116 sequences assigned
33 (3%) exact matches, in which:
26 unique CDR3
4 unique J



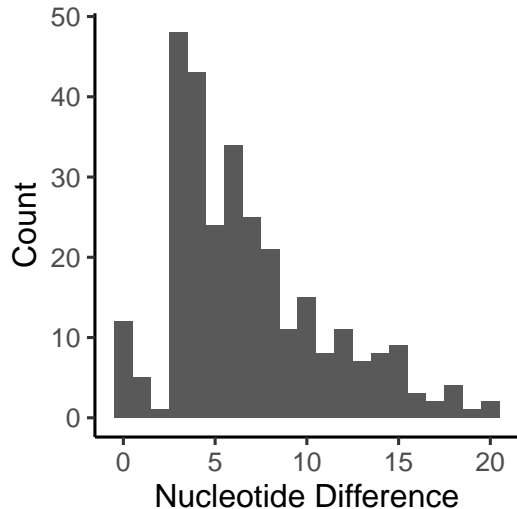
IGHV1-46*01

474 sequences assigned
27 (5.7%) exact matches, in which:
21 unique CDR3
4 unique J



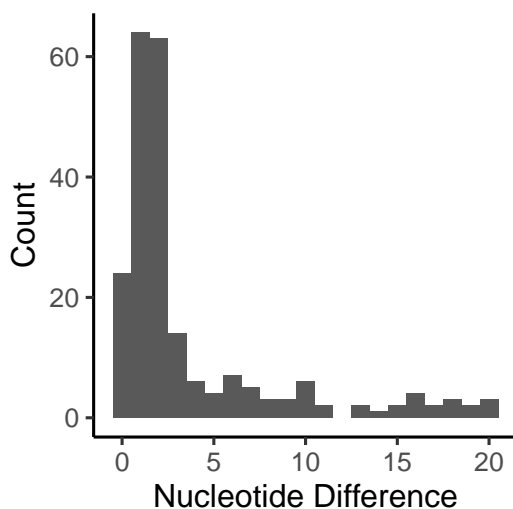
IGHV1-8*01

307 sequences assigned
12 (3.9%) exact matches, in which:
12 unique CDR3
2 unique J



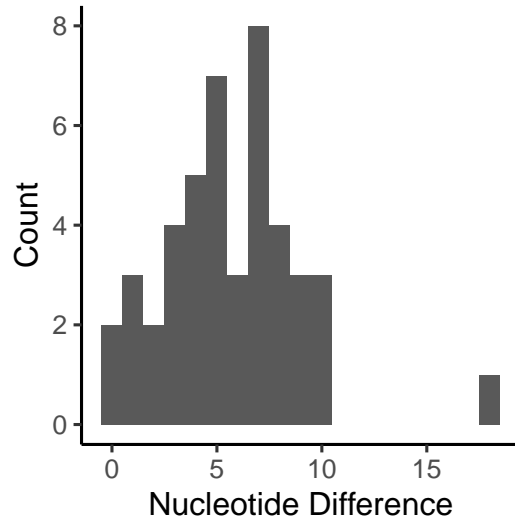
IGHV1-24*01

229 sequences assigned
24 (10.5%) exact matches, in which:
18 unique CDR3
5 unique J



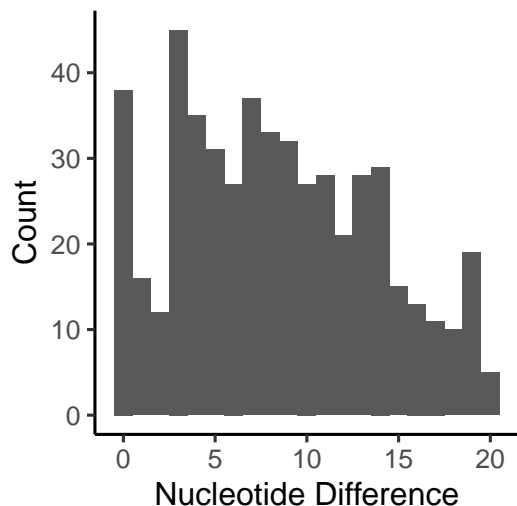
IGHV1-58*01_03

46 sequences assigned
2 (4.3%) exact matches, in which:
2 unique CDR3
1 unique J



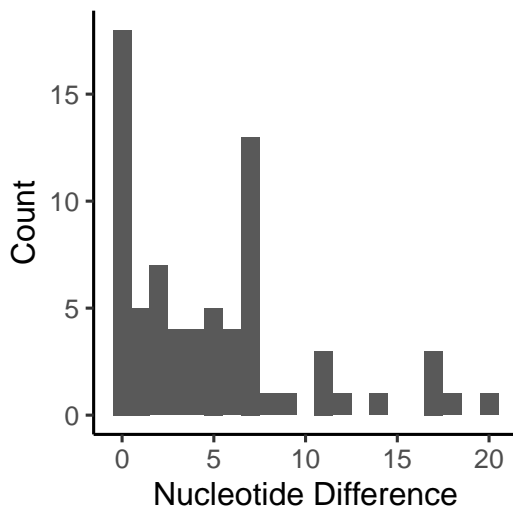
IGHV1-69*01_12_13

598 sequences assigned
38 (6.4%) exact matches, in which:
33 unique CDR3
4 unique J



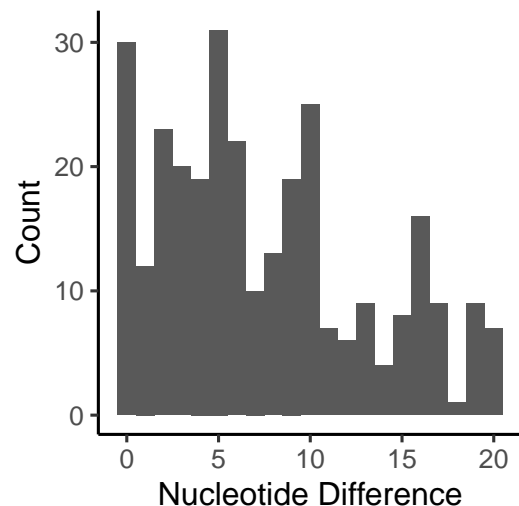
IGHV2-70*01

72 sequences assigned
18 (25%) exact matches, in which:
8 unique CDR3
3 unique J



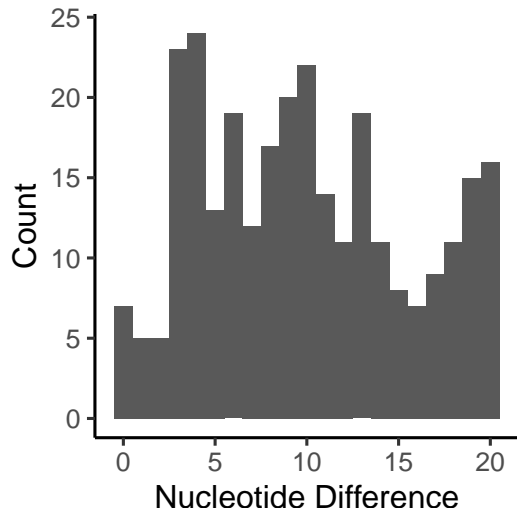
IGHV3-9*01

316 sequences assigned
30 (9.5%) exact matches, in which:
16 unique CDR3
5 unique J



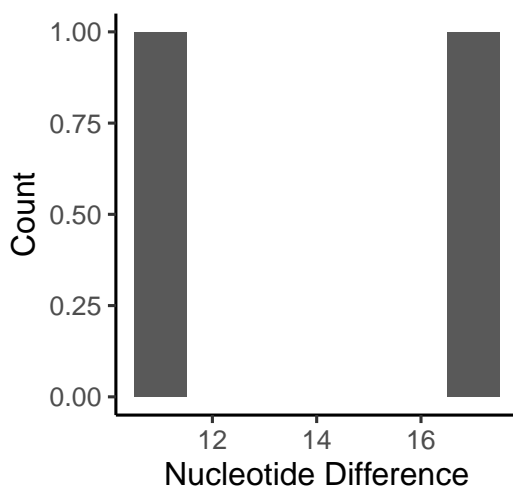
IGHV2-5*01

335 sequences assigned
7 (2.1%) exact matches, in which:
6 unique CDR3
3 unique J



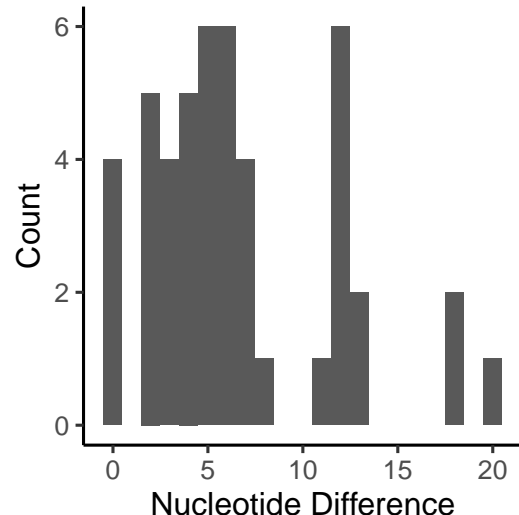
IGHV2-70D*04

2 sequences assigned
No exact matches.



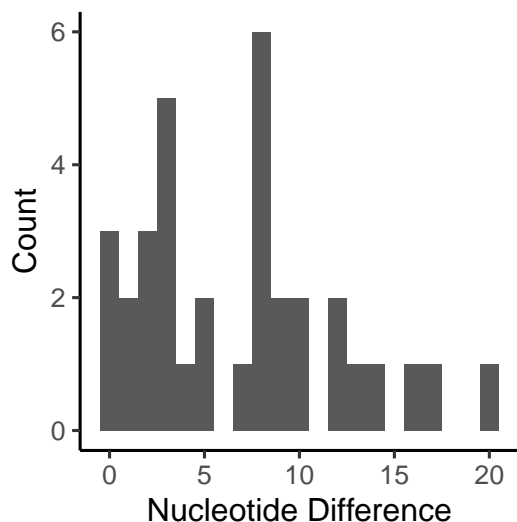
IGHV3-9*03

48 sequences assigned
4 (8.3%) exact matches, in which:
3 unique CDR3
2 unique J



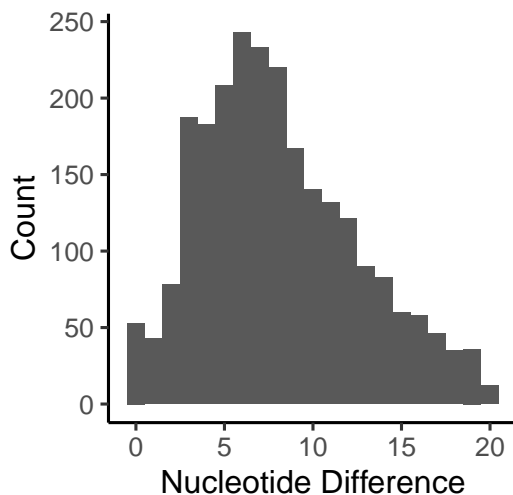
IGHV2-26*01

37 sequences assigned
3 (8.1%) exact matches, in which:
3 unique CDR3
2 unique J



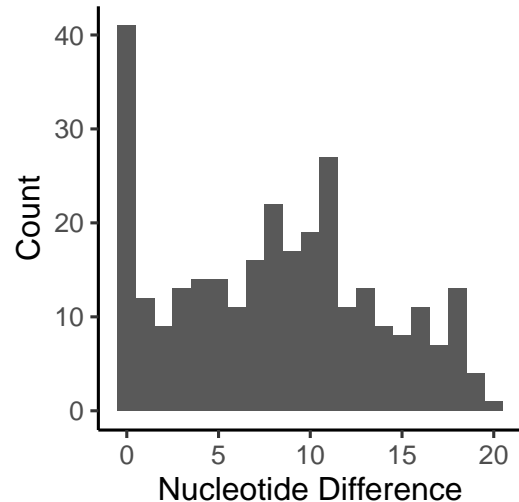
IGHV3-7*01

2489 sequences assigned
53 (2.1%) exact matches, in which:
29 unique CDR3
4 unique J



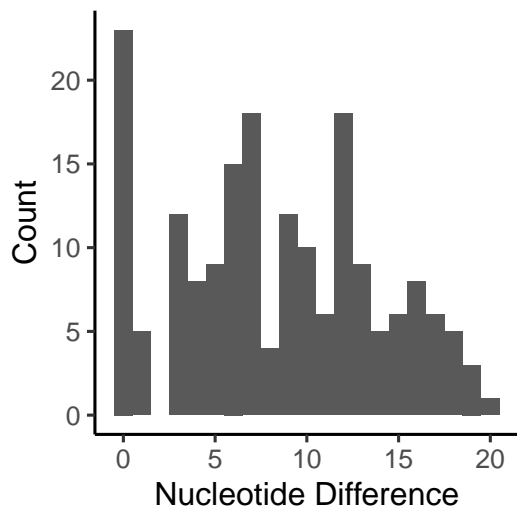
IGHV3-11*01

316 sequences assigned
41 (13%) exact matches, in which:
16 unique CDR3
4 unique J



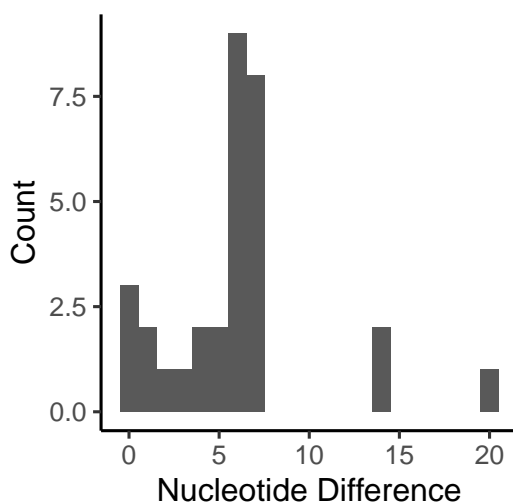
IGHV3-11*04

210 sequences assigned
23 (11%) exact matches, in which:
9 unique CDR3
4 unique J



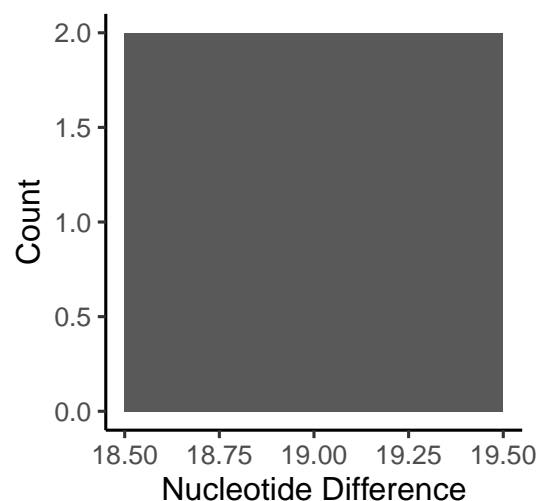
IGHV3-20*01_02

31 sequences assigned
3 (9.7%) exact matches, in which:
1 unique CDR3
1 unique J



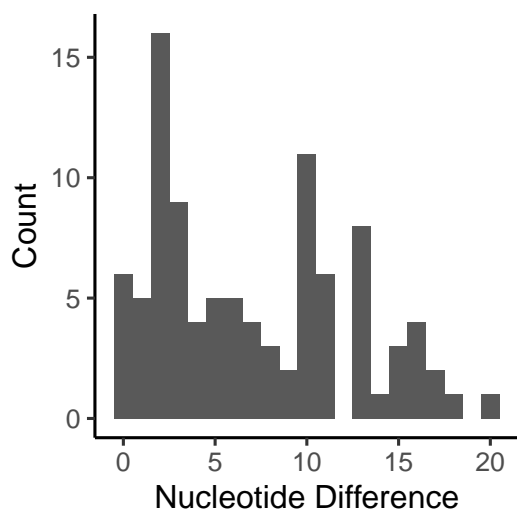
IGHV3-22*01_02

2 sequences assigned
No exact matches.



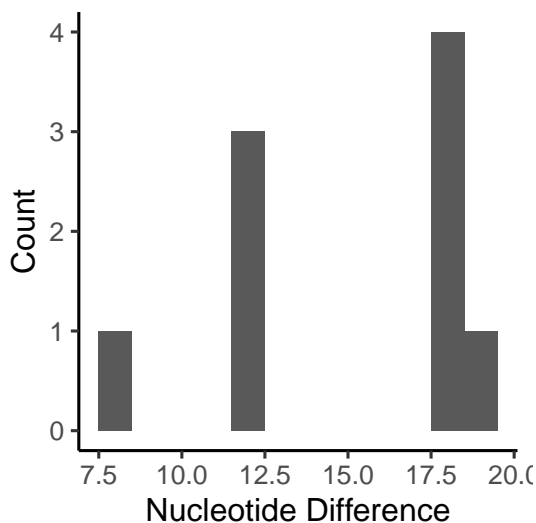
IGHV3-13*01

99 sequences assigned
6 (6.1%) exact matches, in which:
4 unique CDR3
2 unique J



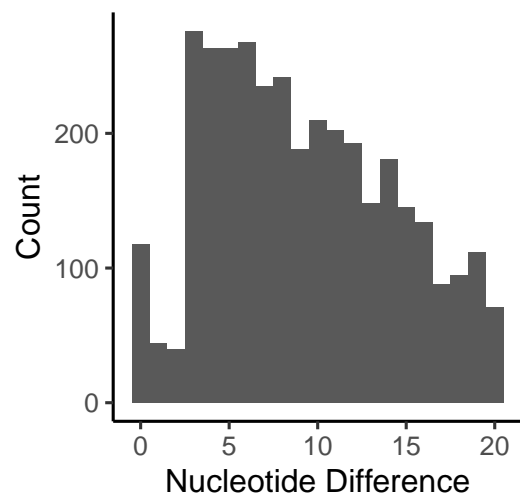
IGHV3-20*03_04

9 sequences assigned
No exact matches.



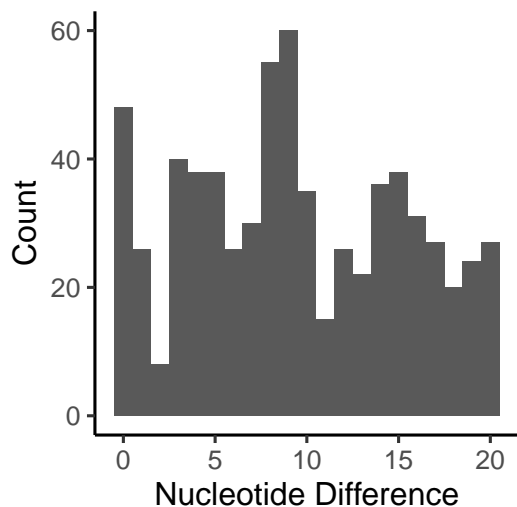
IGHV3-23*01_04

3858 sequences assigned
118 (3.1%) exact matches, in which:
59 unique CDR3
6 unique J



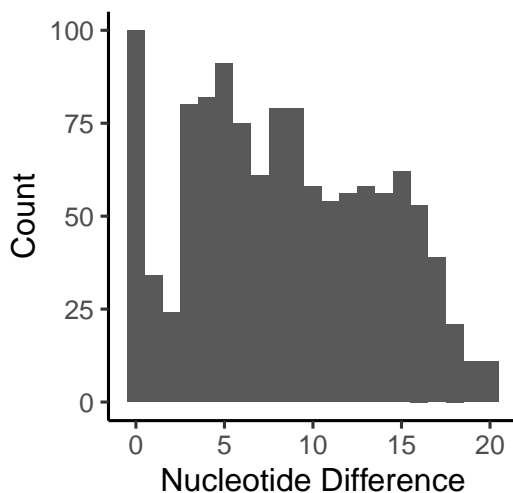
IGHV3-15*01_02

771 sequences assigned
48 (6.2%) exact matches, in which:
19 unique CDR3
3 unique J



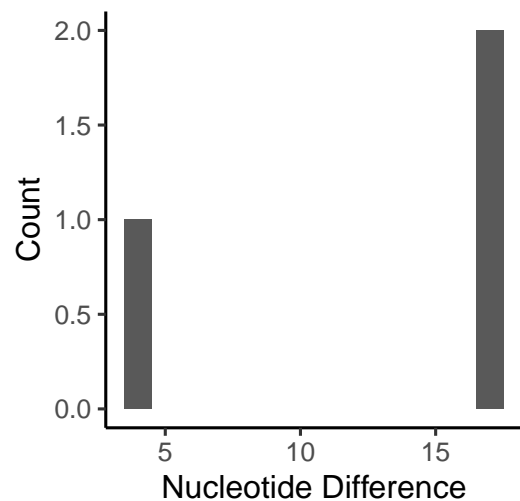
IGHV3-21*01_02

1449 sequences assigned
100 (6.9%) exact matches, in which:
51 unique CDR3
5 unique J



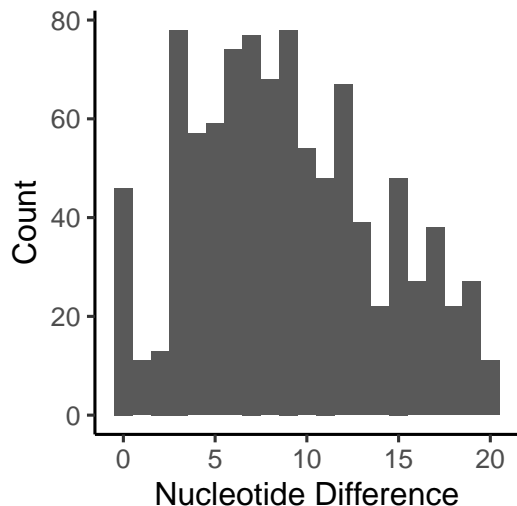
IGHV3-30-3*03

4 sequences assigned
No exact matches.



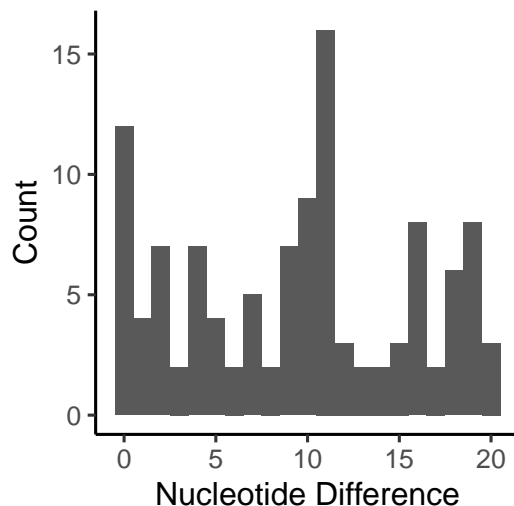
IGHV3-33*01

1070 sequences assigned
46 (4.3%) exact matches, in which:
27 unique CDR3
4 unique J



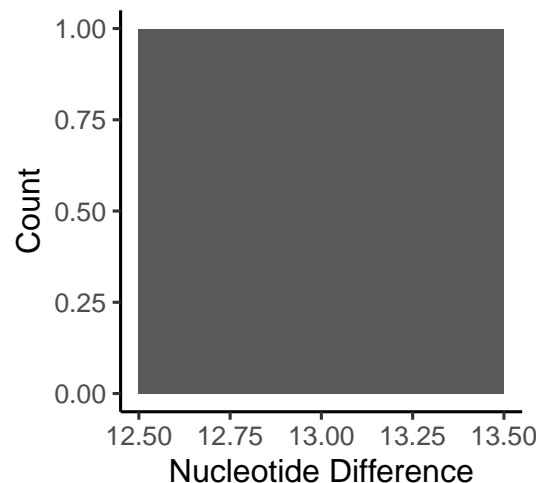
IGHV3-49*03_05

136 sequences assigned
12 (8.8%) exact matches, in which:
6 unique CDR3
3 unique J



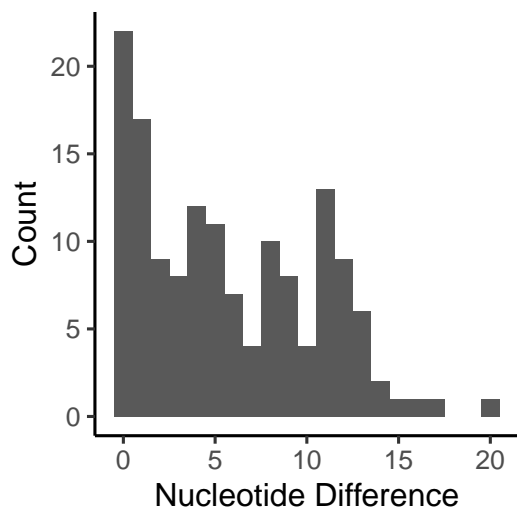
IGHV3-66*04

1 sequences assigned
No exact matches.



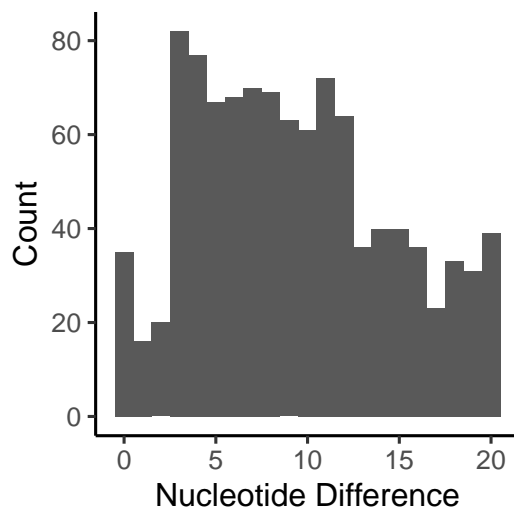
IGHV3-43*01

148 sequences assigned
22 (14.9%) exact matches, in which:
10 unique CDR3
2 unique J



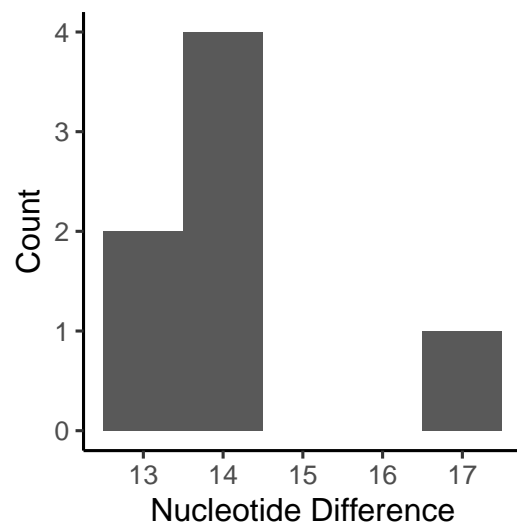
IGHV3-53*01_02

1164 sequences assigned
35 (3%) exact matches, in which:
18 unique CDR3
4 unique J



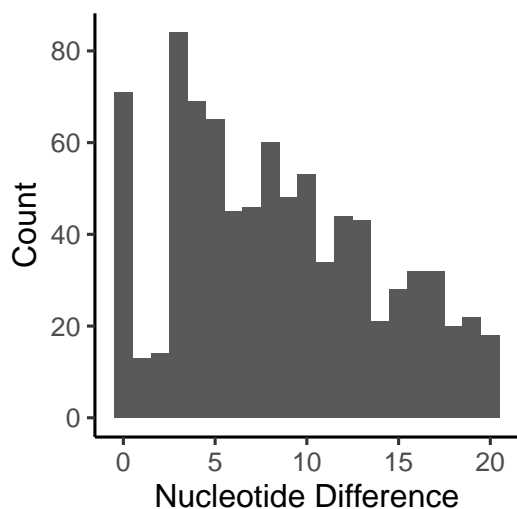
IGHV3-69-1*01

21 sequences assigned
No exact matches.



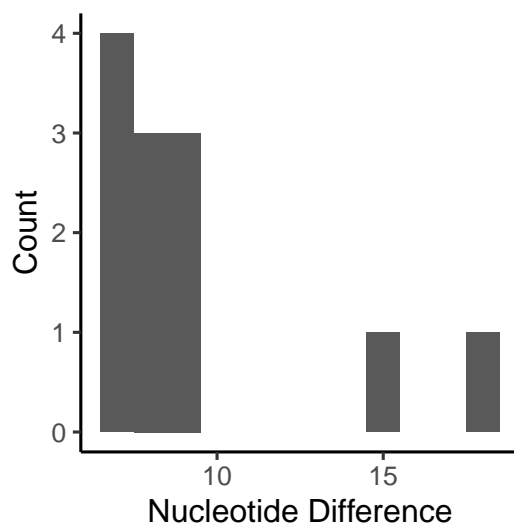
IGHV3-48*02

921 sequences assigned
71 (7.7%) exact matches, in which:
40 unique CDR3
4 unique J



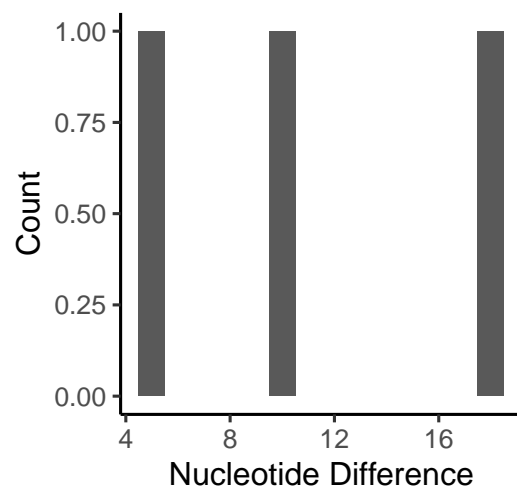
IGHV3-64*02_07

12 sequences assigned
No exact matches.



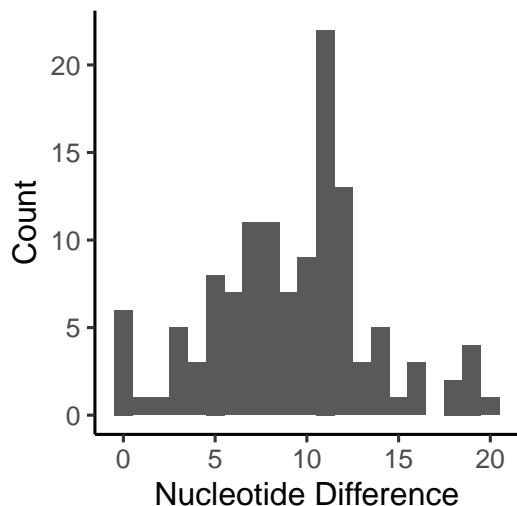
IGHV3-69-1*02

4 sequences assigned
No exact matches.



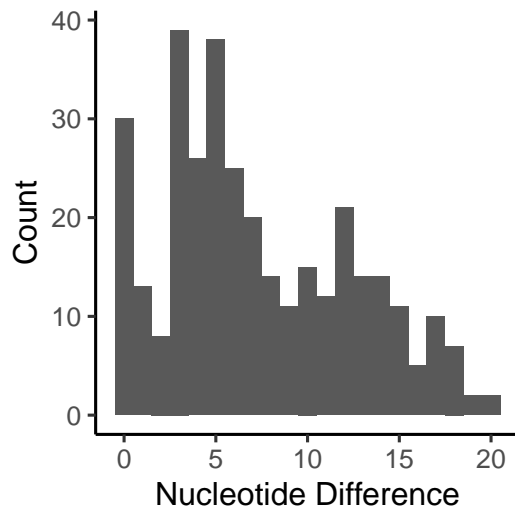
IGHV3-72*01

128 sequences assigned
6 (4.7%) exact matches, in which:
3 unique CDR3
2 unique J



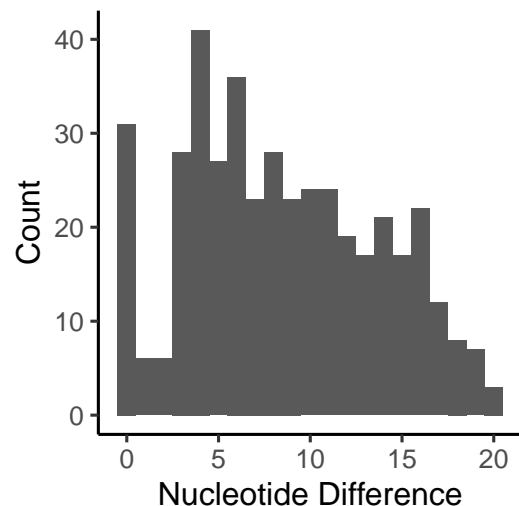
IGHV3-74*01_02

354 sequences assigned
30 (8.5%) exact matches, in which:
17 unique CDR3
3 unique J



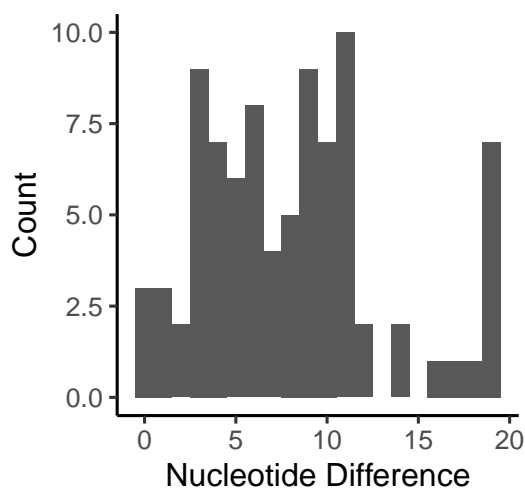
IGHV4-4*07

460 sequences assigned
31 (6.7%) exact matches, in which:
16 unique CDR3
4 unique J



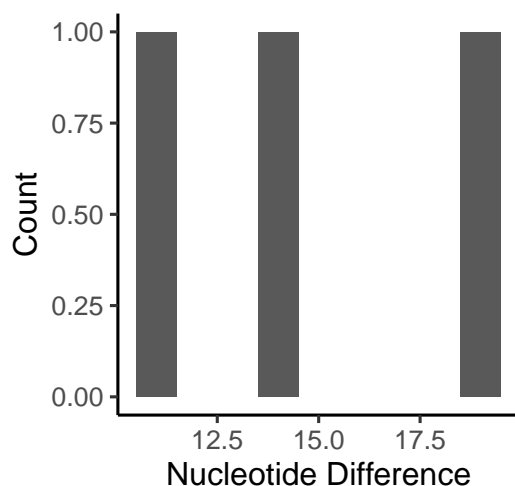
IGHV3-73*01_02

90 sequences assigned
3 (3.3%) exact matches, in which:
2 unique CDR3
1 unique J



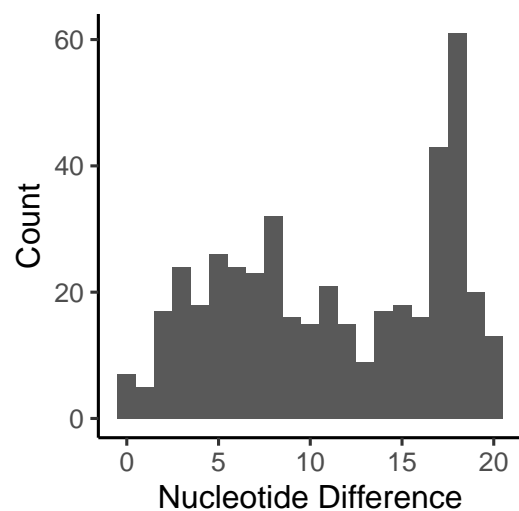
IGHV3-64D*06

3 sequences assigned
No exact matches.



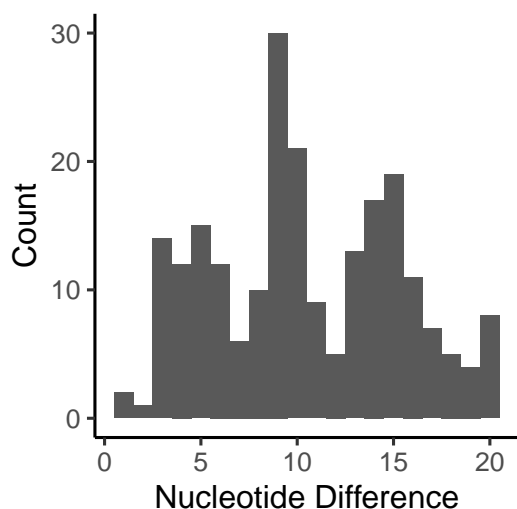
IGHV4-4*02_03

513 sequences assigned
7 (1.4%) exact matches, in which:
5 unique CDR3
2 unique J



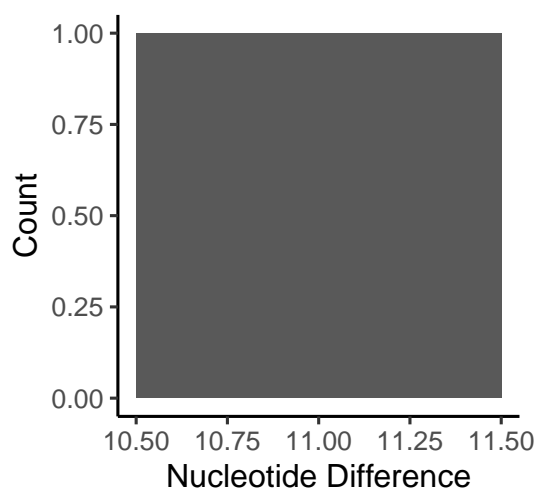
IGHV3-74*03

262 sequences assigned
No exact matches.



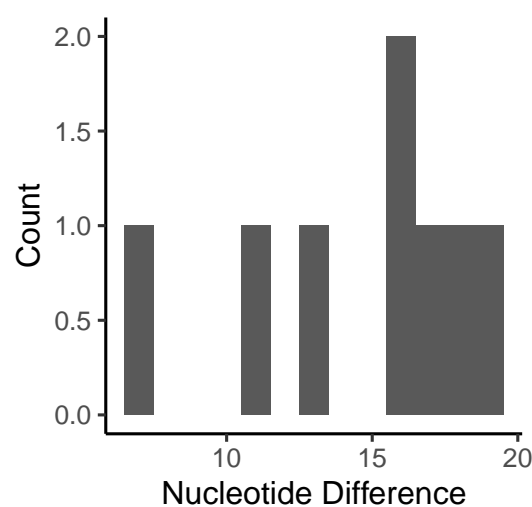
IGHV3-64D*09

1 sequences assigned
No exact matches.



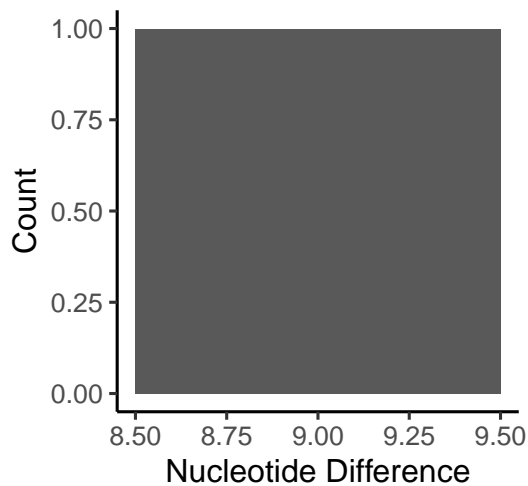
IGHV4-28*01_07

12 sequences assigned
No exact matches.



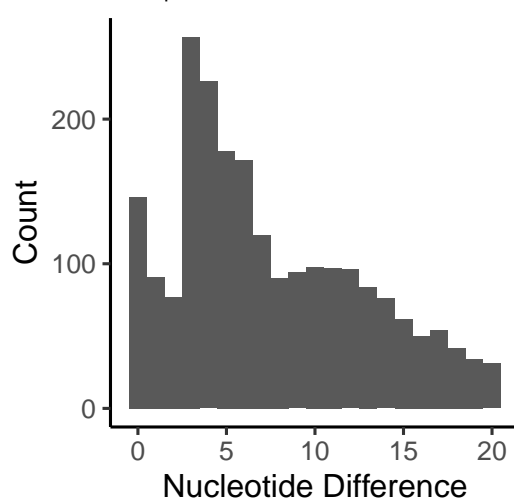
IGHV4-30-4*01

2 sequences assigned
No exact matches.



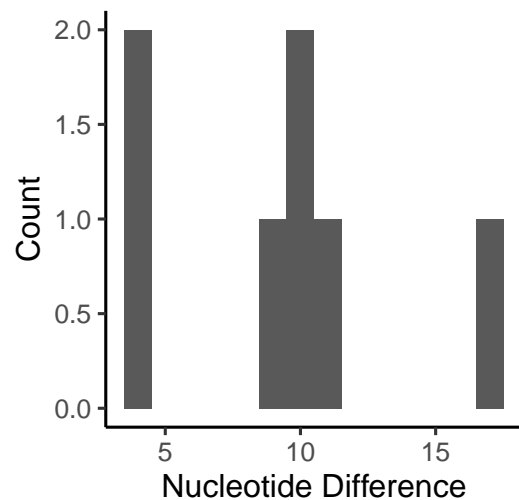
IGHV4-34*01_02

2392 sequences assigned
146 (6.1%) exact matches, in which:
85 unique CDR3
6 unique J



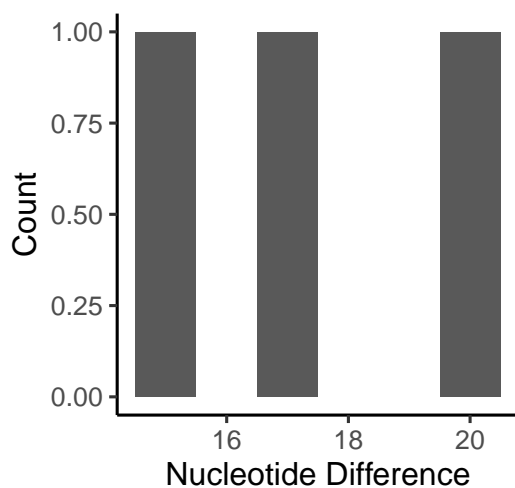
IGHV4-39*07

12 sequences assigned
No exact matches.



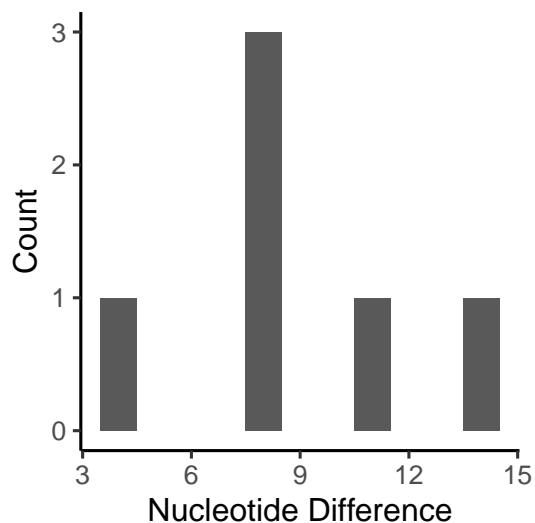
IGHV4-30-2*03

5 sequences assigned
No exact matches.



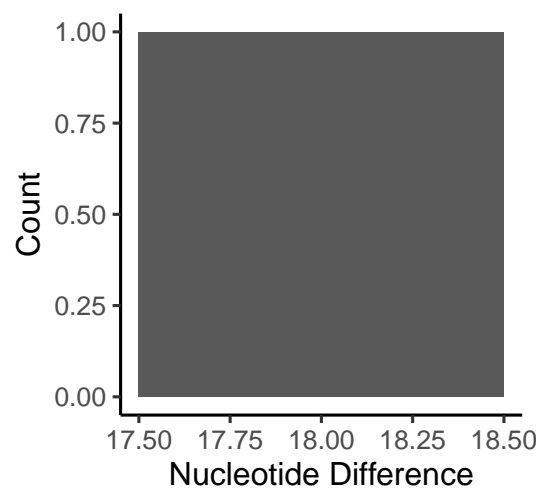
IGHV4-38-2*02

9 sequences assigned
No exact matches.



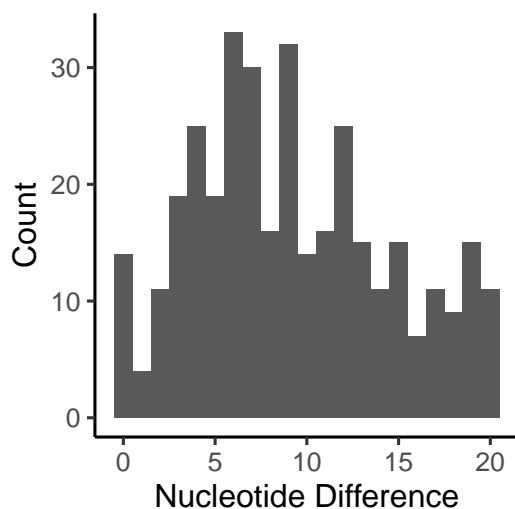
IGHV4-55*07

1 sequences assigned
No exact matches.



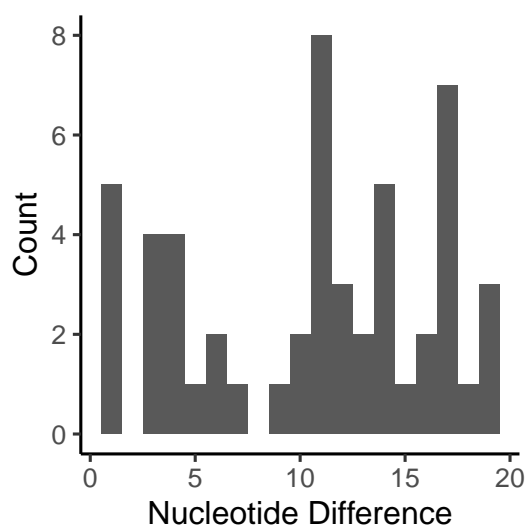
IGHV4-31*02

398 sequences assigned
14 (3.5%) exact matches, in which:
10 unique CDR3
4 unique J



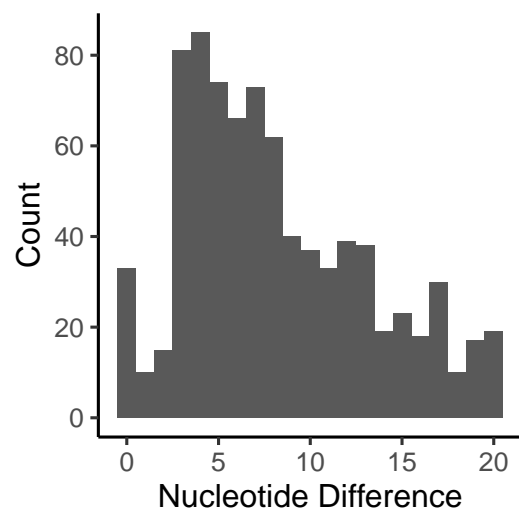
IGHV4-39*02

75 sequences assigned
No exact matches.



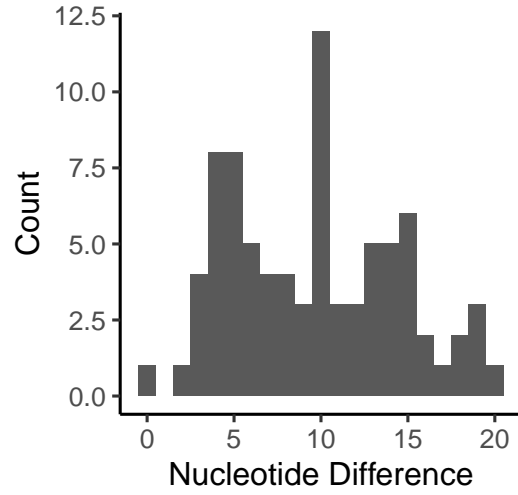
IGHV4-59*01_07

911 sequences assigned
33 (3.6%) exact matches, in which:
23 unique CDR3
5 unique J



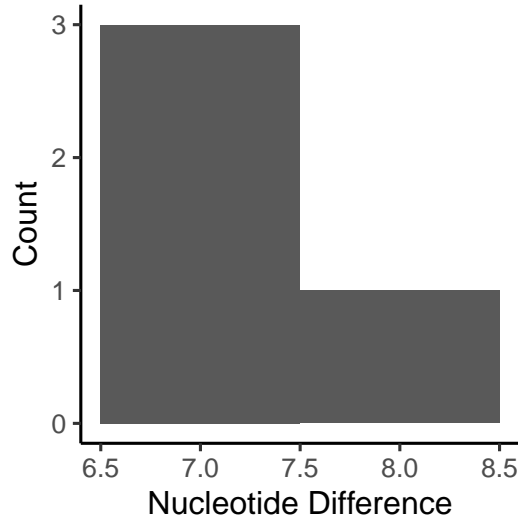
IGHV4-59*11

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



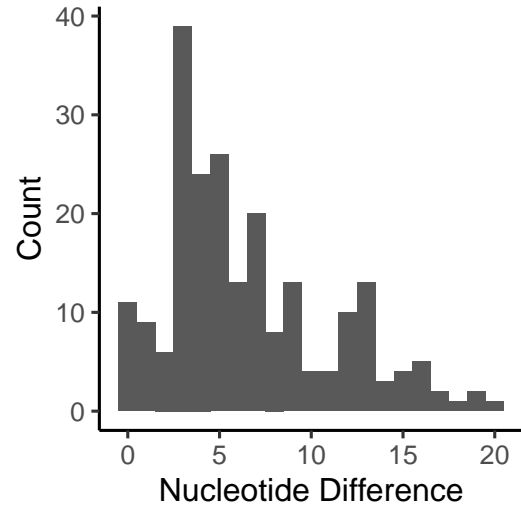
IGHV4/OR15-8*01

8 sequences assigned
No exact matches.



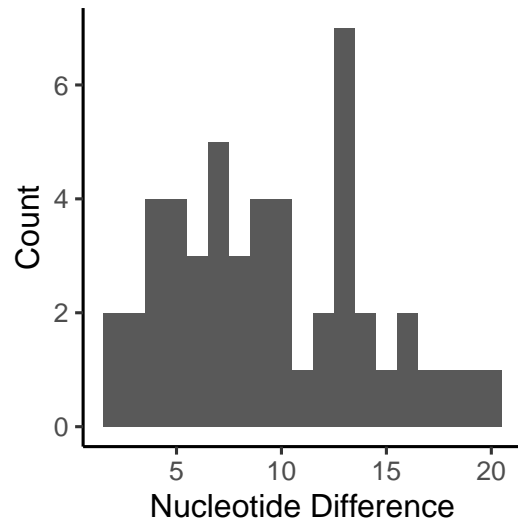
IGHV5-51*01_03

224 sequences assigned
11 (4.9%) exact matches, in which:
11 unique CDR3
3 unique J



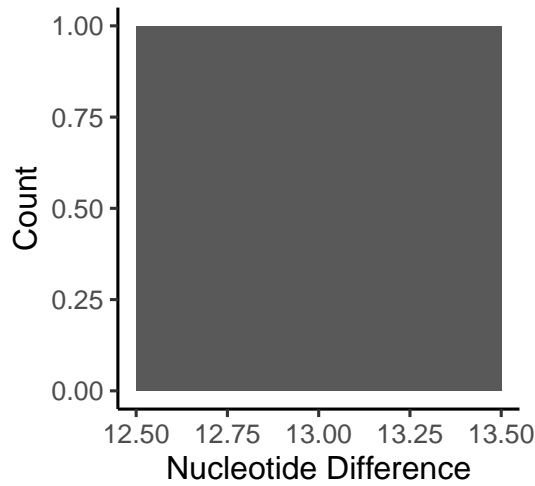
IGHV4-59*13

64 sequences assigned
No exact matches.



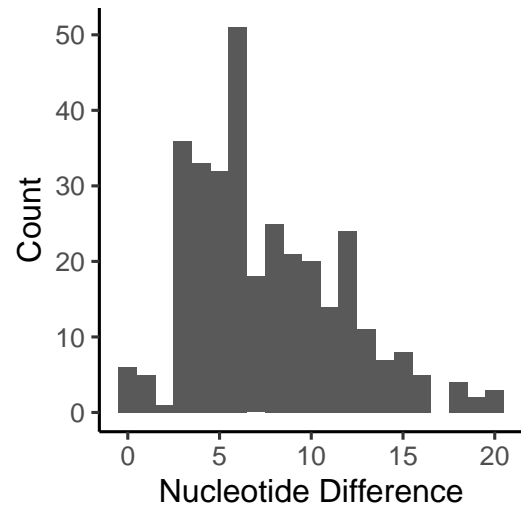
IGHV4/OR15-8*03

1 sequences assigned
No exact matches.



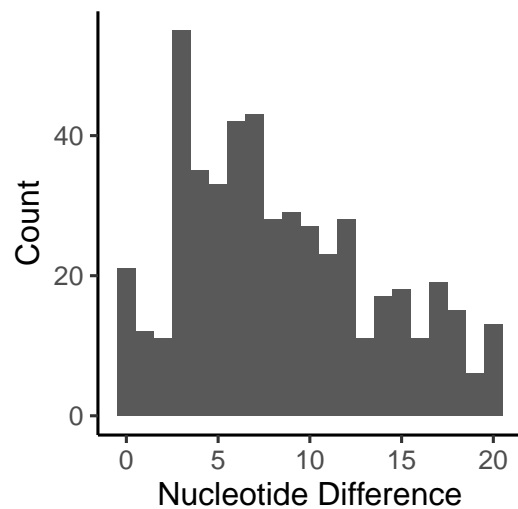
IGHV6-1*01_02

354 sequences assigned
6 (1.7%) exact matches, in which:
6 unique CDR3
2 unique J



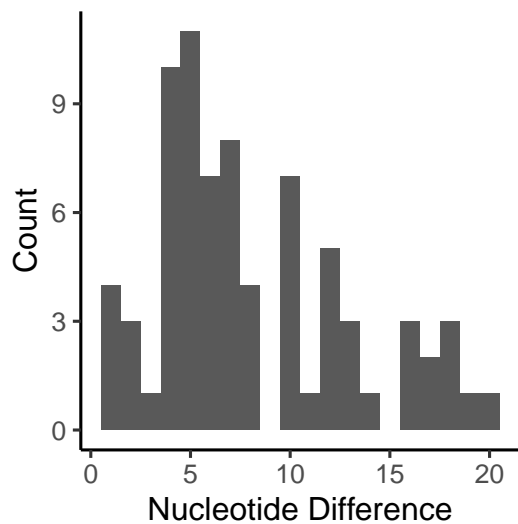
IGHV4-61*01

565 sequences assigned
21 (3.7%) exact matches, in which:
12 unique CDR3
3 unique J



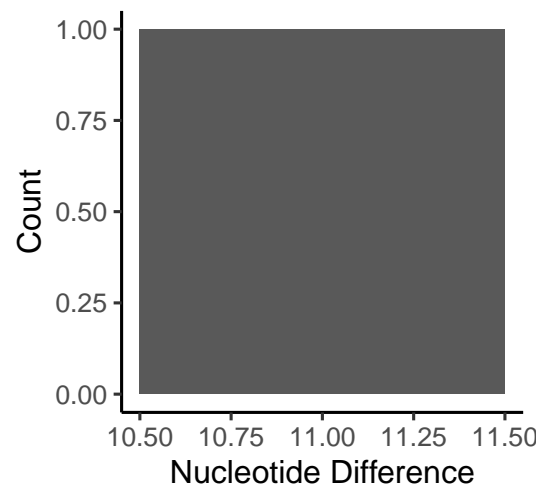
IGHV5-51*07

79 sequences assigned
No exact matches.



IGHV3/OR16-6*02

1 sequences assigned
No exact matches.





[illegible]