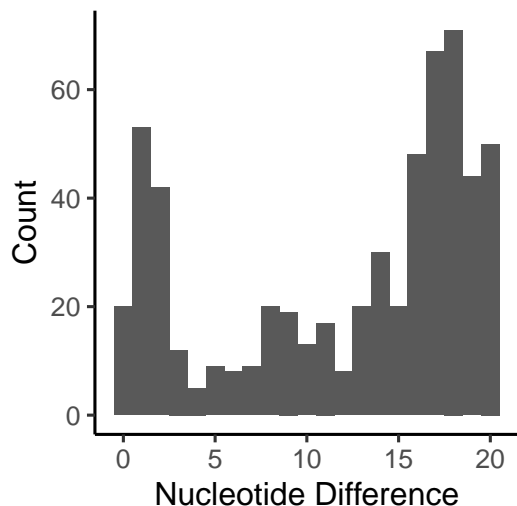


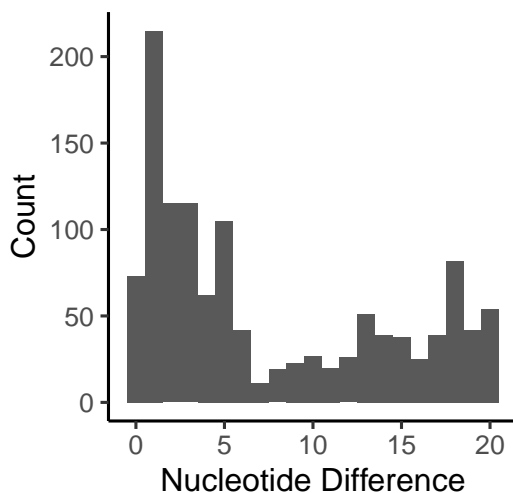
IGHV1-2*02

913 sequences assigned
20 (2.2%) exact matches, in which:
14 unique CDR3
4 unique J



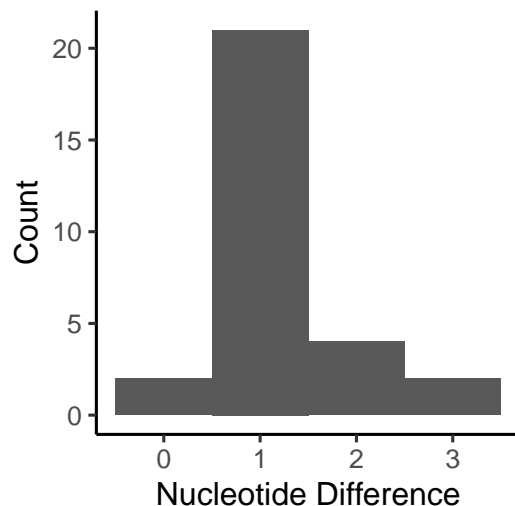
IGHV1-18*01

1897 sequences assigned
73 (3.8%) exact matches, in which:
36 unique CDR3
4 unique J



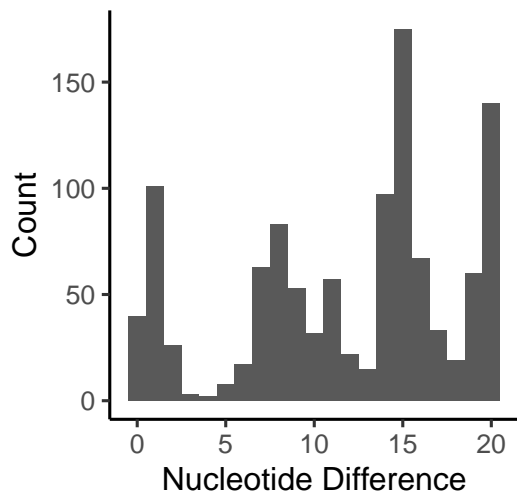
IGHV1-58*01

49 sequences assigned
2 (4.1%) exact matches, in which:
1 unique CDR3
1 unique J



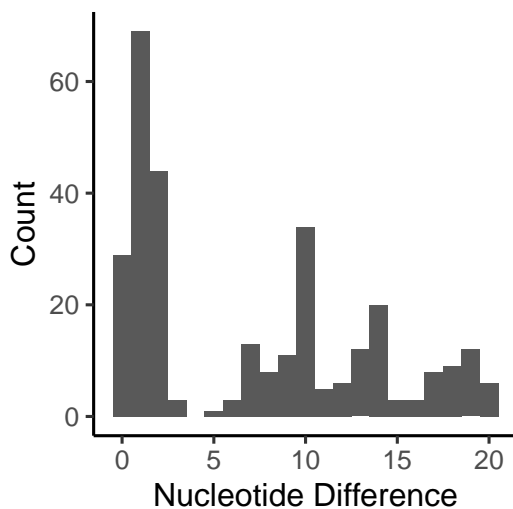
IGHV1-3*01

1602 sequences assigned
40 (2.5%) exact matches, in which:
18 unique CDR3
3 unique J



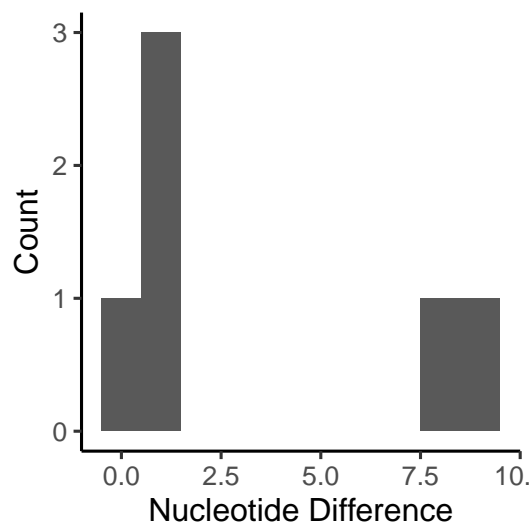
IGHV1-24*01

465 sequences assigned
29 (6.2%) exact matches, in which:
13 unique CDR3
3 unique J



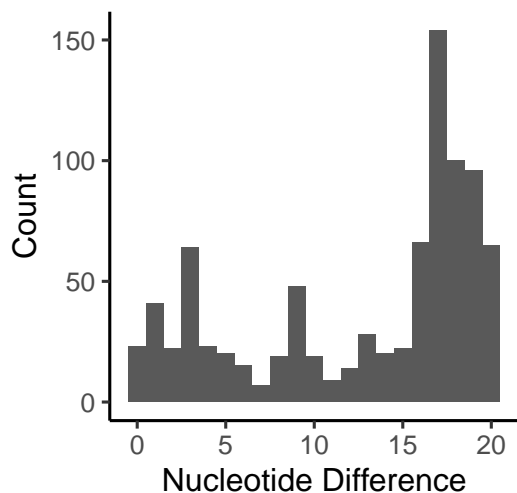
IGHV1-69-2*01

60 sequences assigned
1 (1.7%) exact matches, in which:
1 unique CDR3
1 unique J



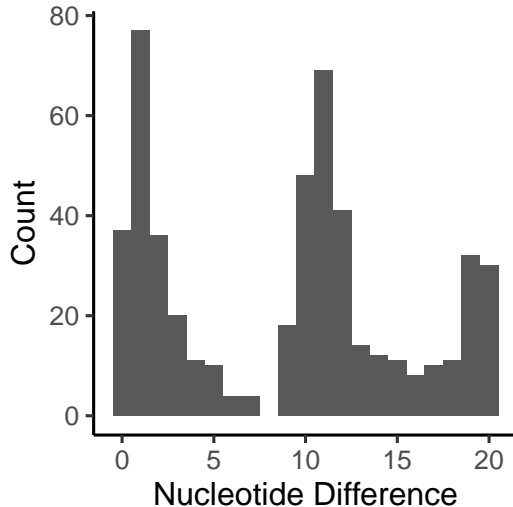
IGHV1-8*01

1118 sequences assigned
23 (2.1%) exact matches, in which:
16 unique CDR3
3 unique J



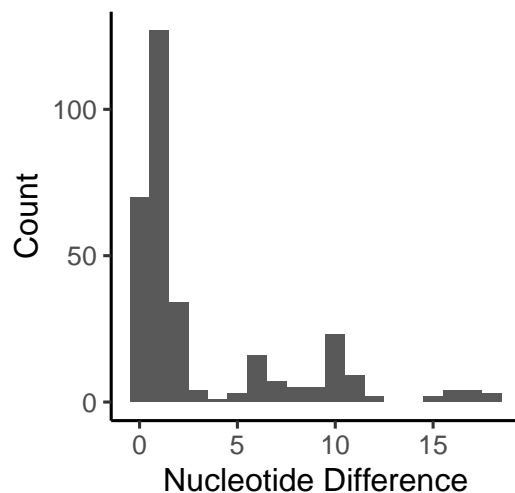
IGHV1-46*01

846 sequences assigned
37 (4.4%) exact matches, in which:
21 unique CDR3
3 unique J



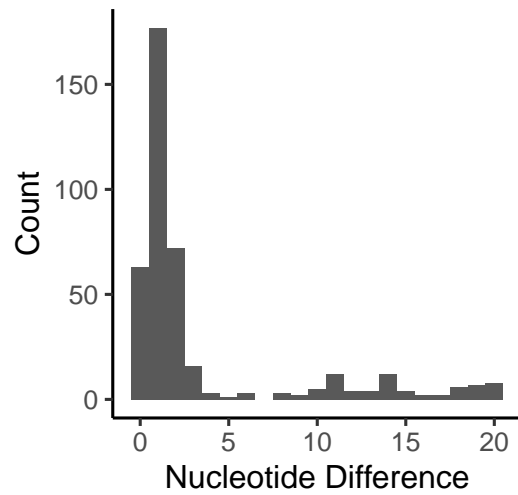
IGHV1-69*06

719 sequences assigned
70 (9.7%) exact matches, in which:
44 unique CDR3
3 unique J



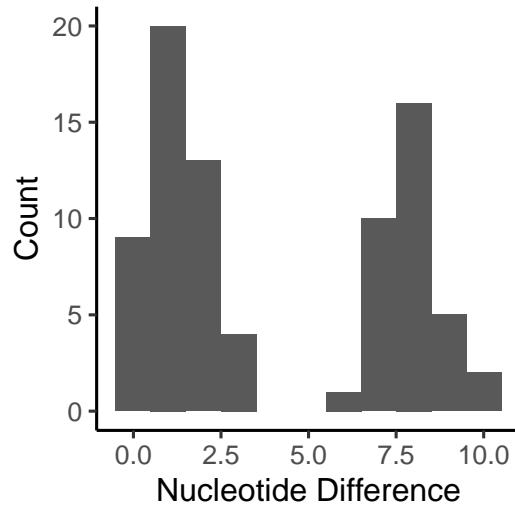
IGHV2-5*01

616 sequences assigned
63 (10.2%) exact matches, in which:
35 unique CDR3
3 unique J



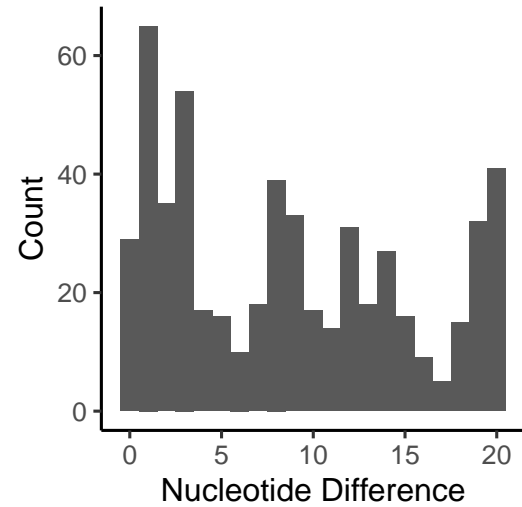
IGHV2-70*01

80 sequences assigned
9 (11.2%) exact matches, in which:
5 unique CDR3
2 unique J



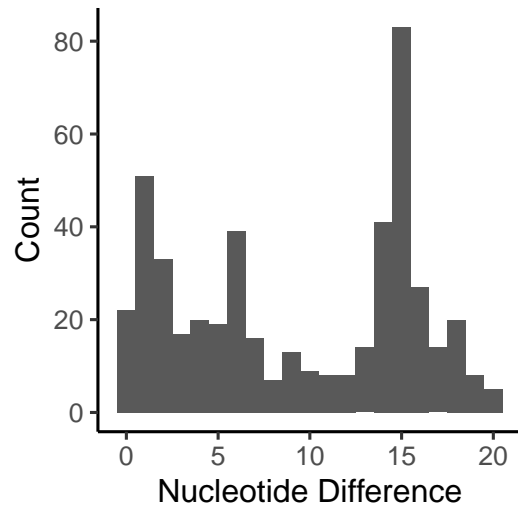
IGHV3-11*01

939 sequences assigned
29 (3.1%) exact matches, in which:
20 unique CDR3
2 unique J



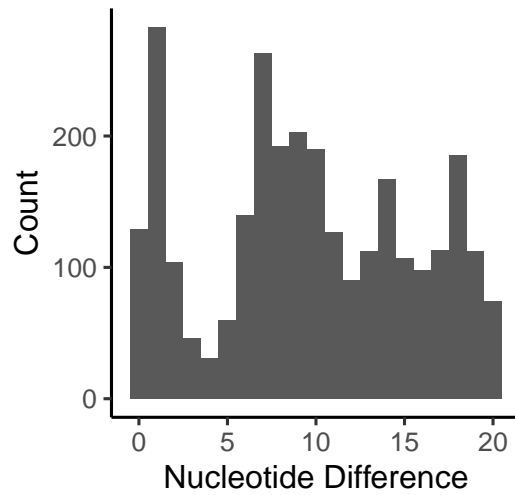
IGHV2-5*02

703 sequences assigned
22 (3.1%) exact matches, in which:
16 unique CDR3
4 unique J



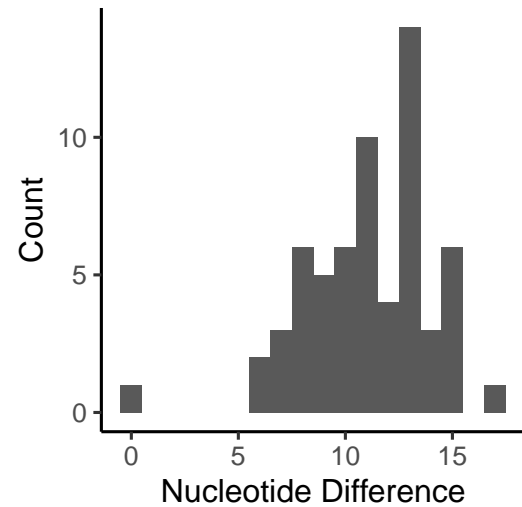
IGHV3-7*01

3745 sequences assigned
129 (3.4%) exact matches, in which:
82 unique CDR3
5 unique J



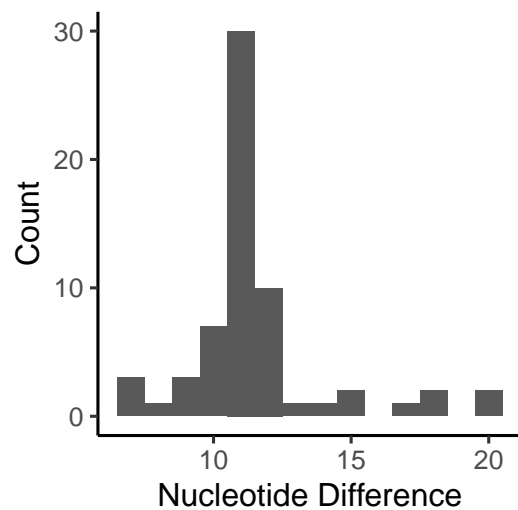
IGHV3-13*01

61 sequences assigned
1 (1.6%) exact matches, in which:
1 unique CDR3
1 unique J



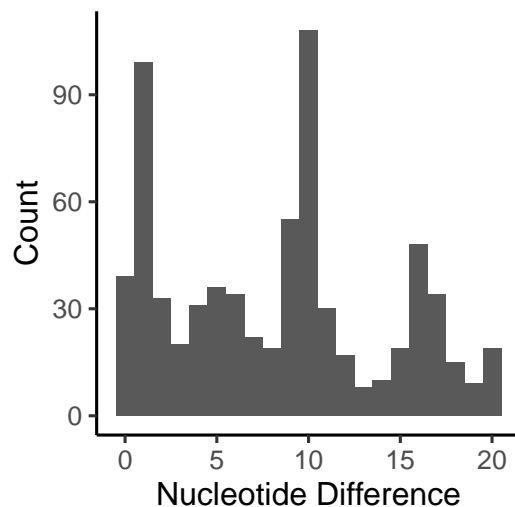
IGHV2-26*01

103 sequences assigned
No exact matches.



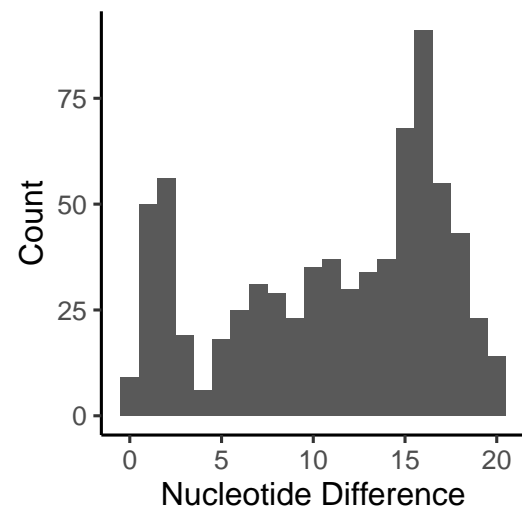
IGHV3-9*01

795 sequences assigned
39 (4.9%) exact matches, in which:
29 unique CDR3
3 unique J



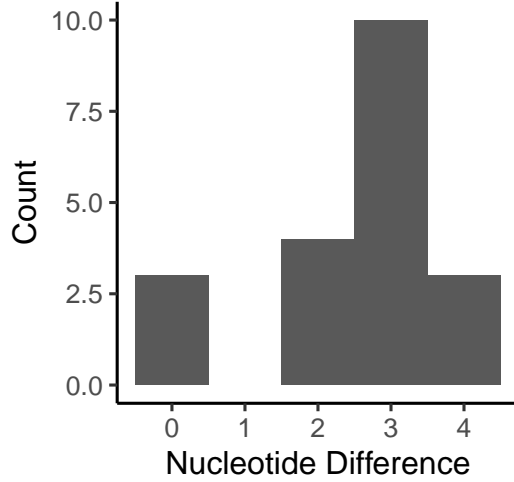
IGHV3-15*01

833 sequences assigned
9 (1.1%) exact matches, in which:
9 unique CDR3
2 unique J



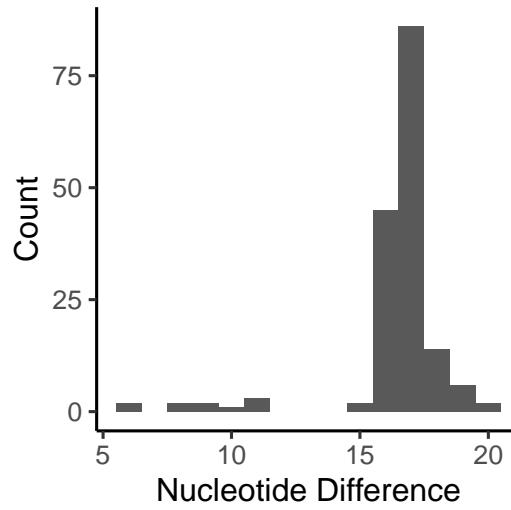
IGHV3-20*01

20 sequences assigned
3 (15%) exact matches, in which:
2 unique CDR3
2 unique J



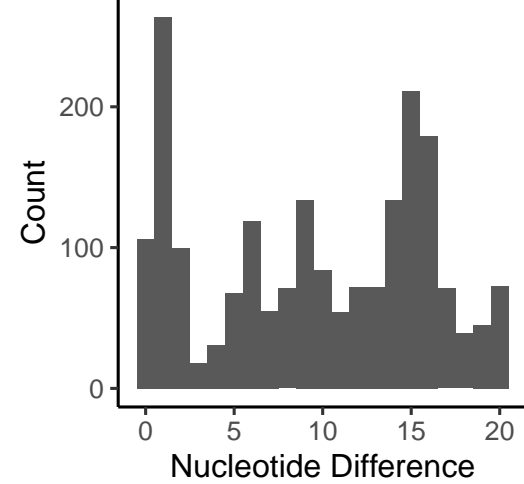
IGHV3-21*06

177 sequences assigned
No exact matches.



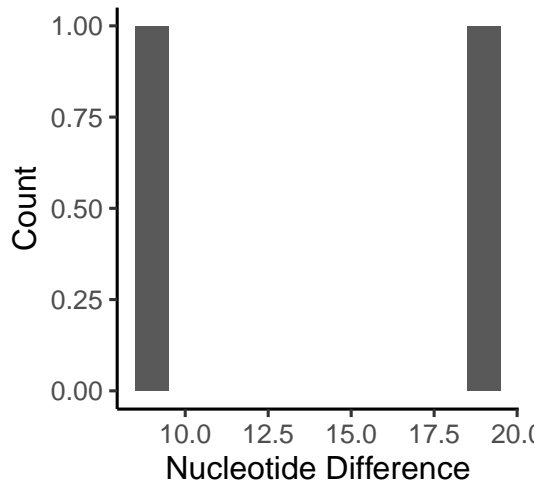
IGHV3-33*01

2868 sequences assigned
106 (3.7%) exact matches, in which:
63 unique CDR3
4 unique J



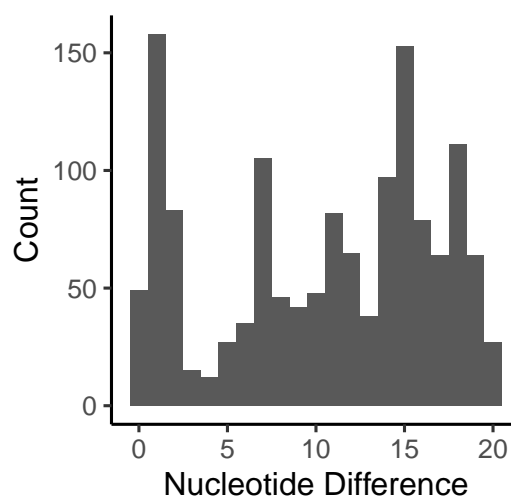
IGHV3-20*04

4 sequences assigned
No exact matches.



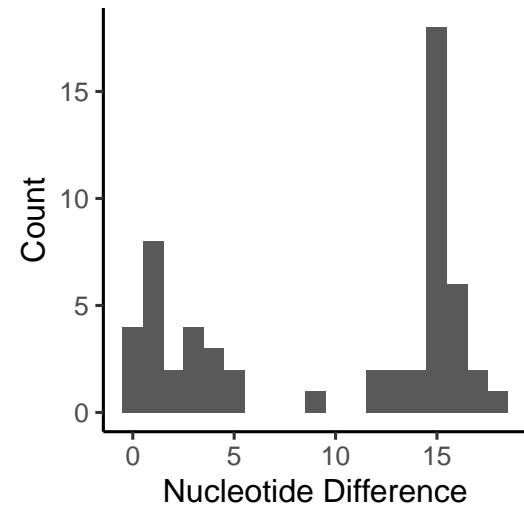
IGHV3-23*04

1965 sequences assigned
49 (2.5%) exact matches, in which:
26 unique CDR3
4 unique J



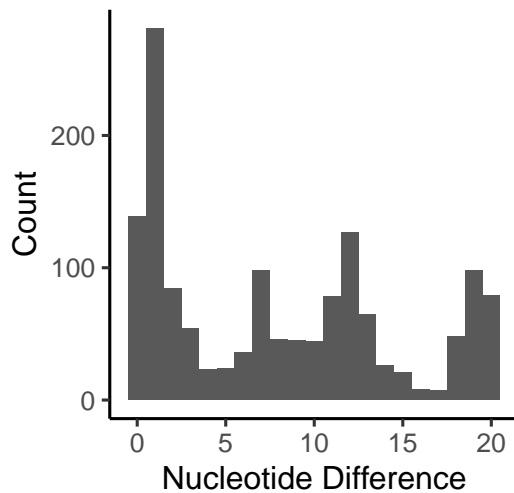
IGHV3-43*01

80 sequences assigned
4 (5%) exact matches, in which:
4 unique CDR3
1 unique J



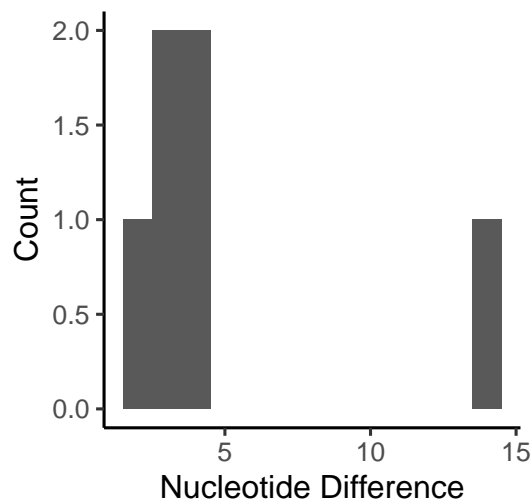
IGHV3-21*01

1811 sequences assigned
139 (7.7%) exact matches, in which:
93 unique CDR3
4 unique J



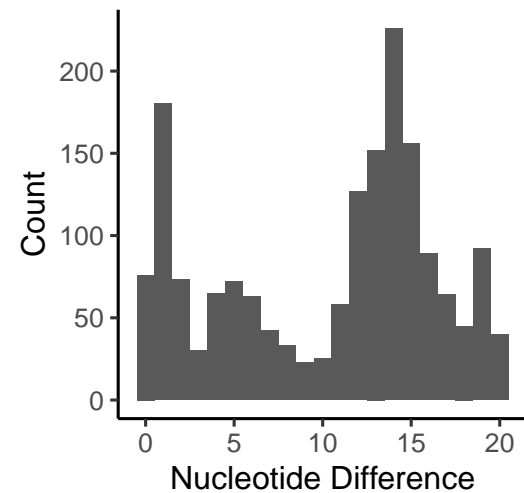
IGHV3-30-3*03

6 sequences assigned
No exact matches.



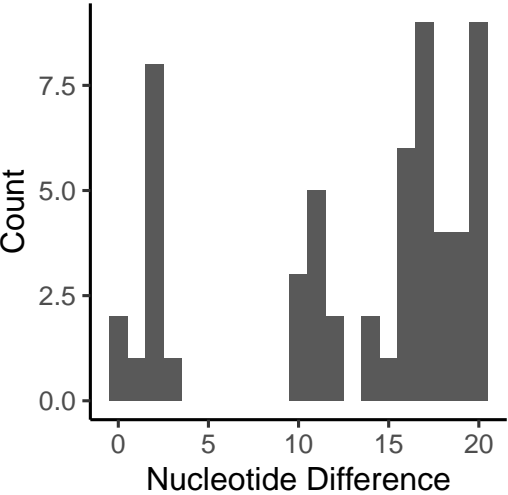
IGHV3-48*02

2105 sequences assigned
76 (3.6%) exact matches, in which:
38 unique CDR3
3 unique J



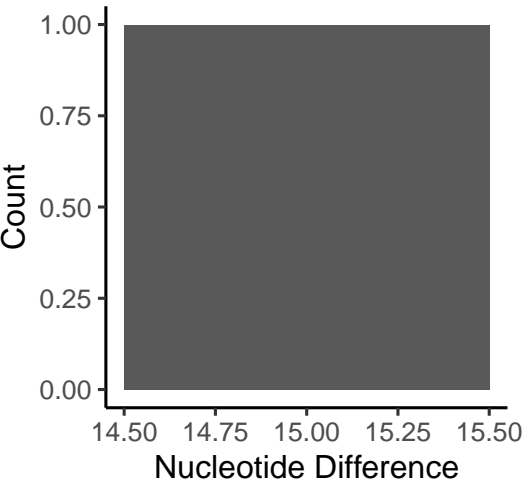
IGHV3-49*05

108 sequences assigned
2 (1.9%) exact matches, in which:
1 unique CDR3
1 unique J



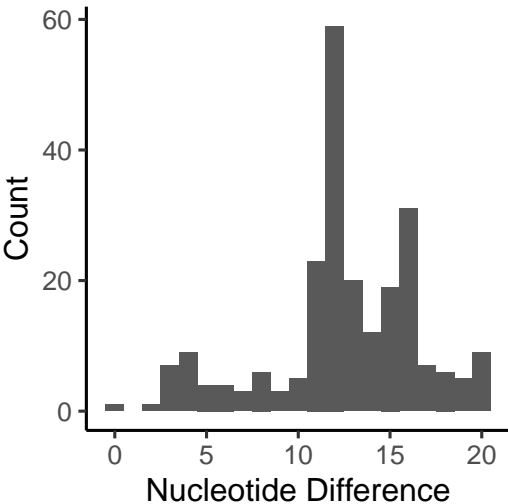
IGHV3-66*03

1 sequences assigned
No exact matches.



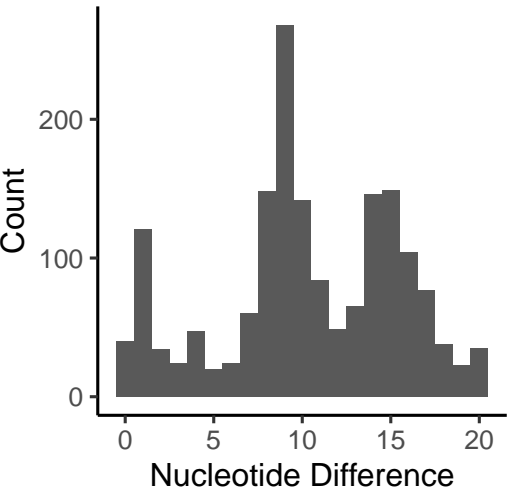
IGHV3-72*01

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



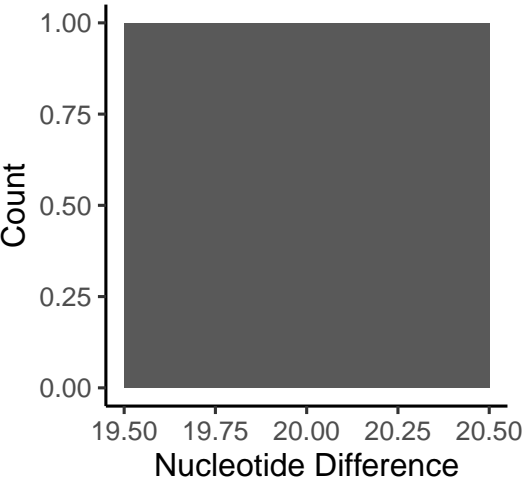
IGHV3-53*01

2444 sequences assigned
40 (1.6%) exact matches, in which:
27 unique CDR3
5 unique J



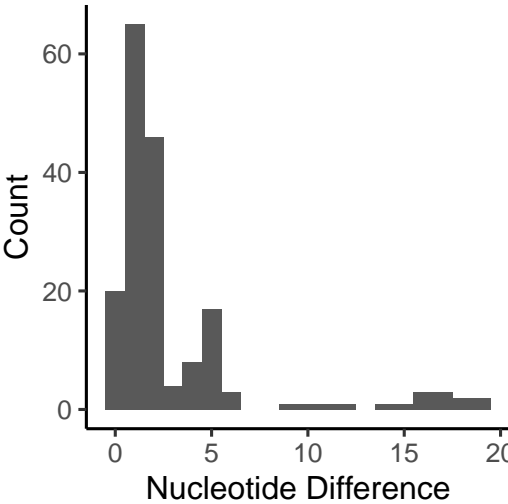
IGHV3-66*04

1 sequences assigned
No exact matches.



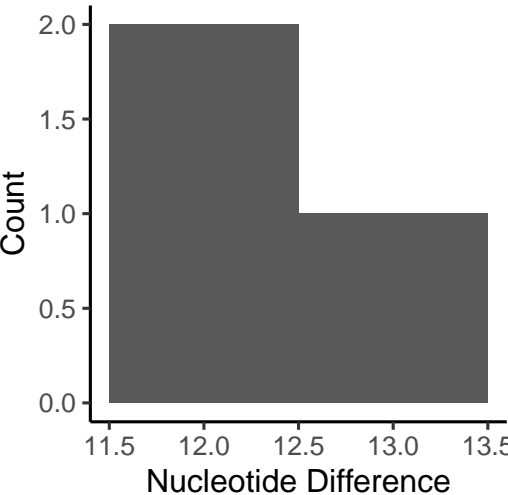
IGHV3-73*02

191 sequences assigned
20 (10.5%) exact matches, in which:
13 unique CDR3
2 unique J



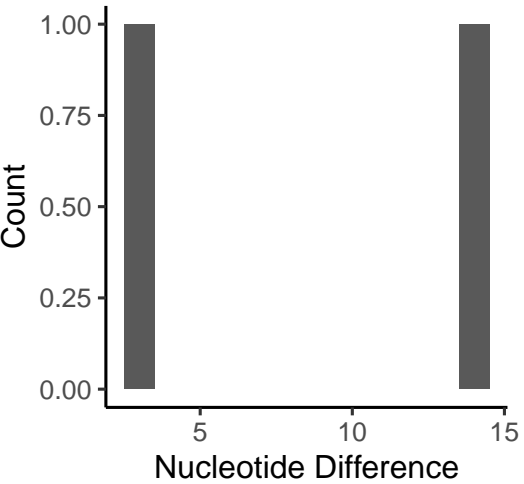
IGHV3-64*02

3 sequences assigned
No exact matches.



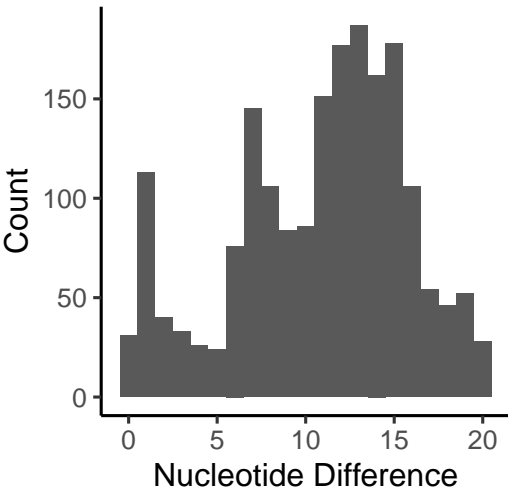
IGHV3-69-1*01

2 sequences assigned
No exact matches.



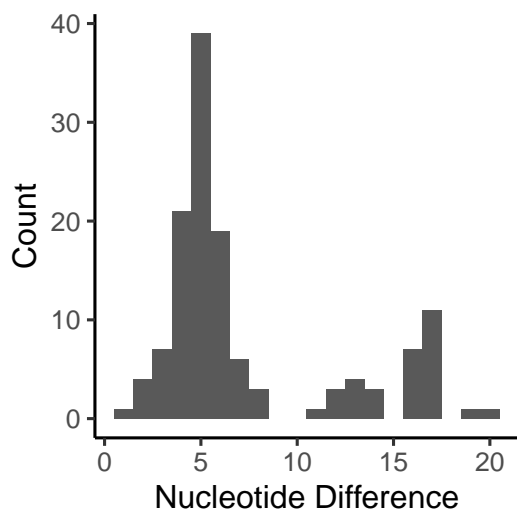
IGHV3-74*01

2105 sequences assigned
31 (1.5%) exact matches, in which:
19 unique CDR3
3 unique J



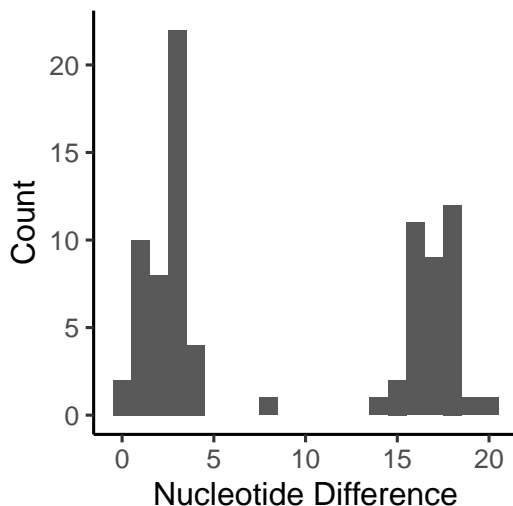
IGHV4-4*02

225 sequences assigned
No exact matches.



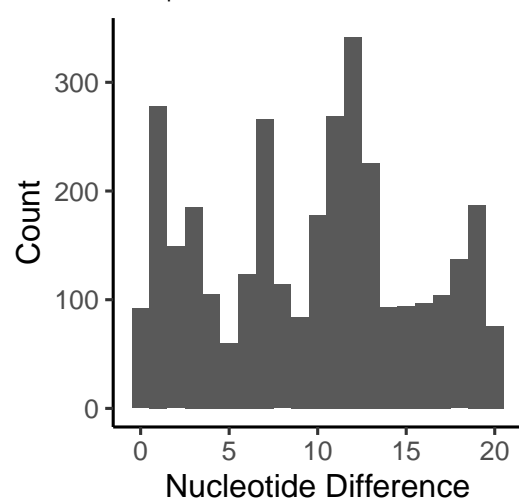
IGHV4-30-2*01

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



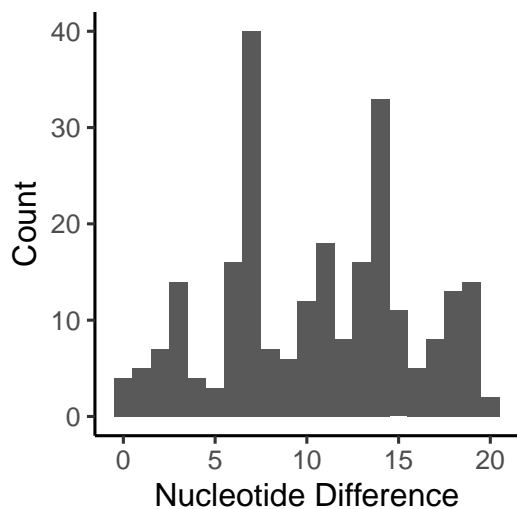
IGHV4-39*01

3905 sequences assigned
92 (2.4%) exact matches, in which:
56 unique CDR3
6 unique J



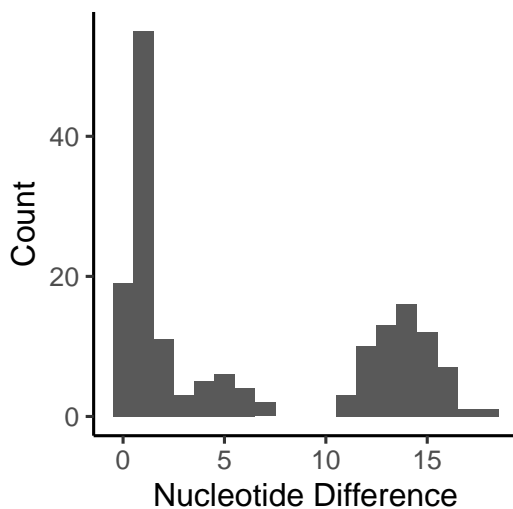
IGHV4-4*07

297 sequences assigned
4 (1.3%) exact matches, in which:
4 unique CDR3
1 unique J



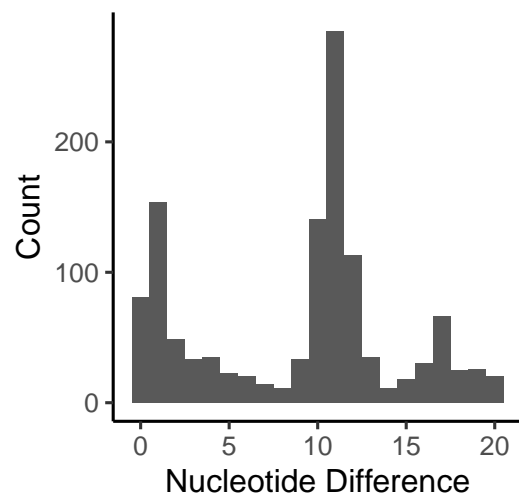
IGHV4-31*03

224 sequences assigned
19 (8.5%) exact matches, in which:
10 unique CDR3
3 unique J



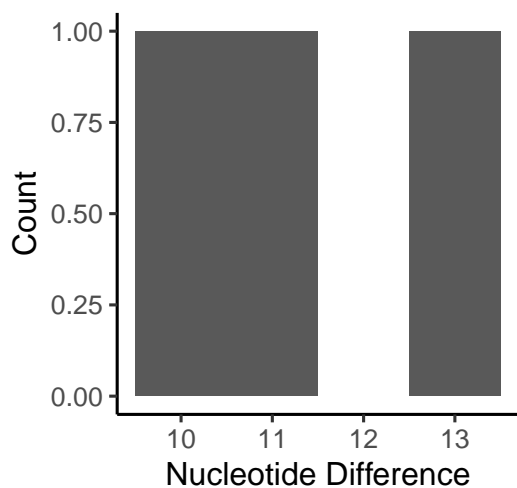
IGHV4-59*01

1663 sequences assigned
81 (4.9%) exact matches, in which:
37 unique CDR3
4 unique J



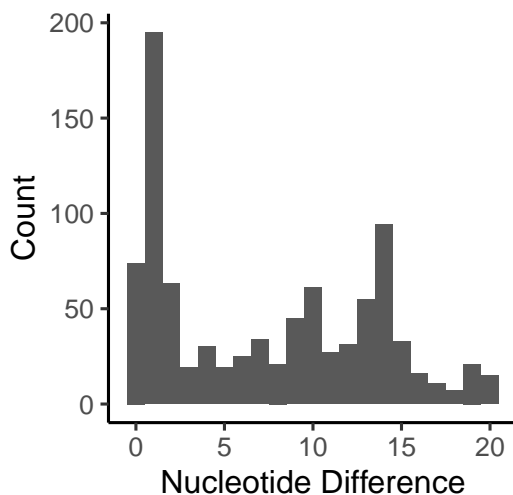
IGHV4-28*01

3 sequences assigned
No exact matches.



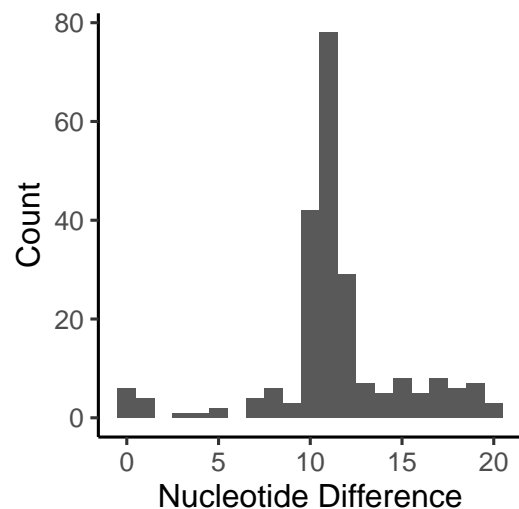
IGHV4-34*01

1313 sequences assigned
74 (5.6%) exact matches, in which:
52 unique CDR3
3 unique J



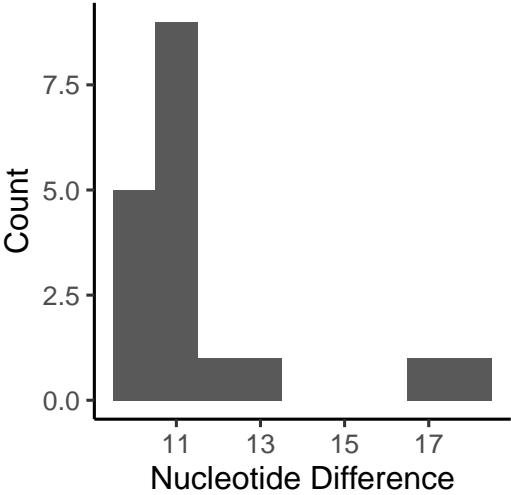
IGHV4-61*01

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



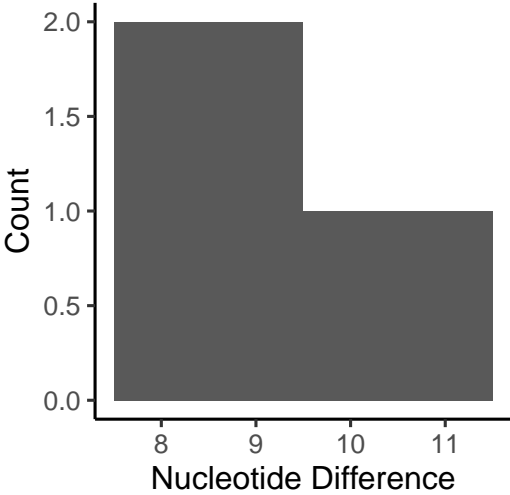
IGHV4-61*08

34 sequences assigned
No exact matches.



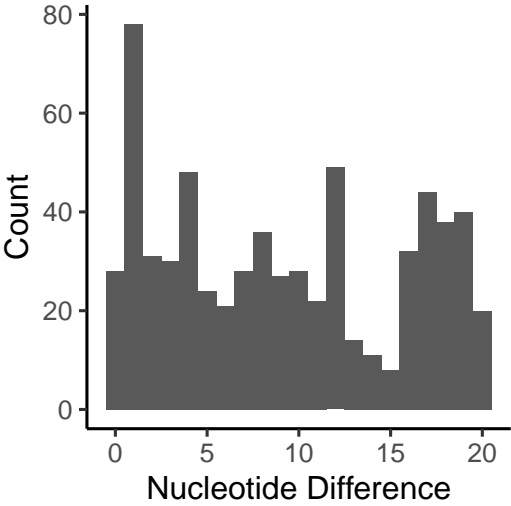
IGHV7-4-1*01

6 sequences assigned
No exact matches.



IGHV5-51*01

1355 sequences assigned
28 (2.1%) exact matches, in which:
16 unique CDR3
5 unique J



IGHV6-1*01

1441 sequences assigned
45 (3.1%) exact matches, in which:
20 unique CDR3
3 unique J

