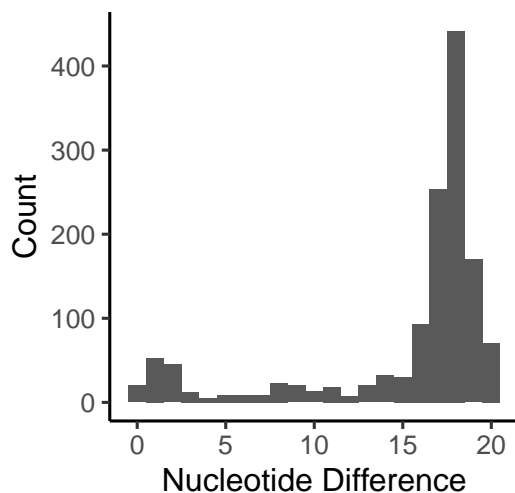


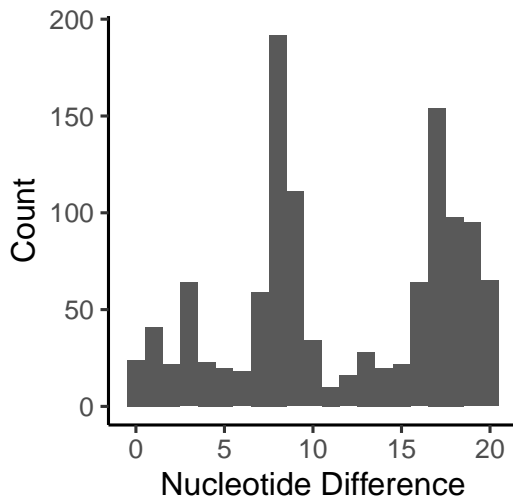
IGHV1-2*02

1690 sequences assigned
20 (1.2%) exact matches, in which:
14 unique CDR3
4 unique J



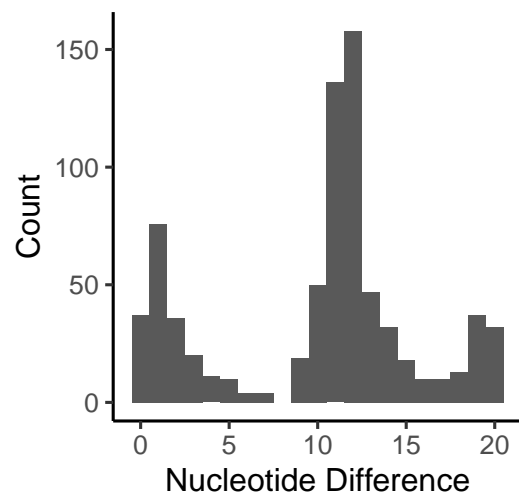
IGHV1-8*01

1428 sequences assigned
24 (1.7%) exact matches, in which:
17 unique CDR3
3 unique J



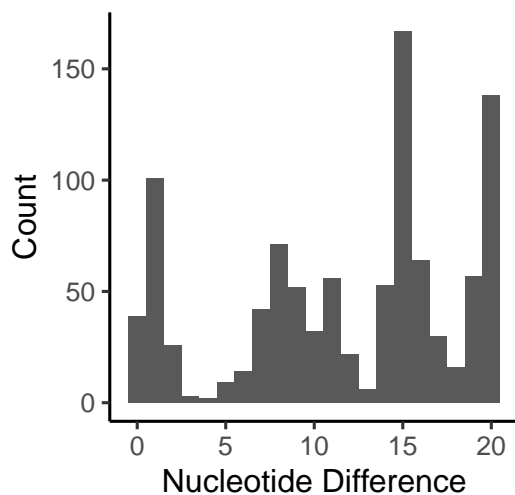
IGHV1-46*01

1117 sequences assigned
37 (3.3%) exact matches, in which:
21 unique CDR3
3 unique J



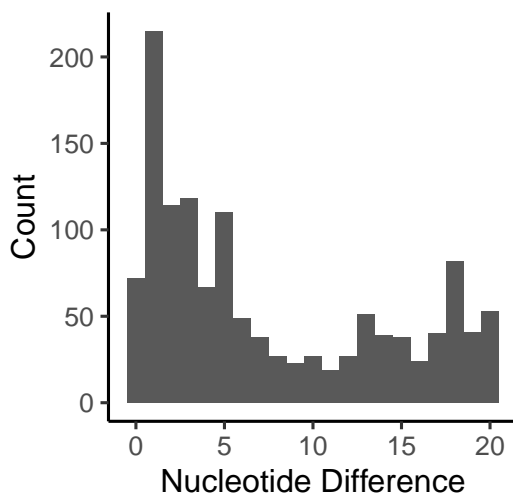
IGHV1-3*01

1337 sequences assigned
39 (2.9%) exact matches, in which:
18 unique CDR3
3 unique J



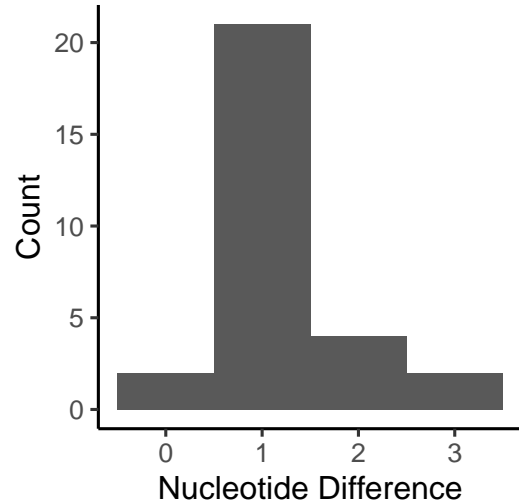
IGHV1-18*01

1945 sequences assigned
72 (3.7%) exact matches, in which:
36 unique CDR3
4 unique J



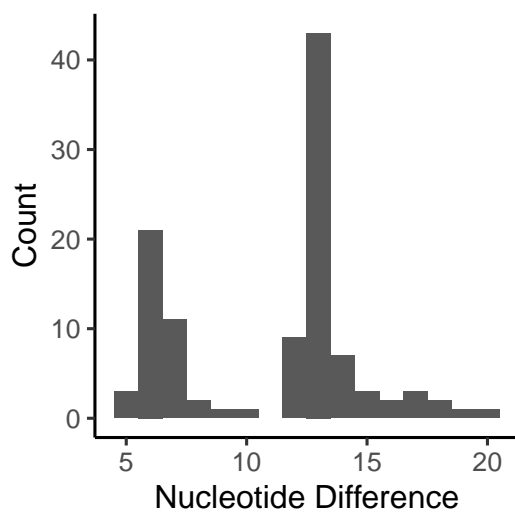
IGHV1-58*01

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



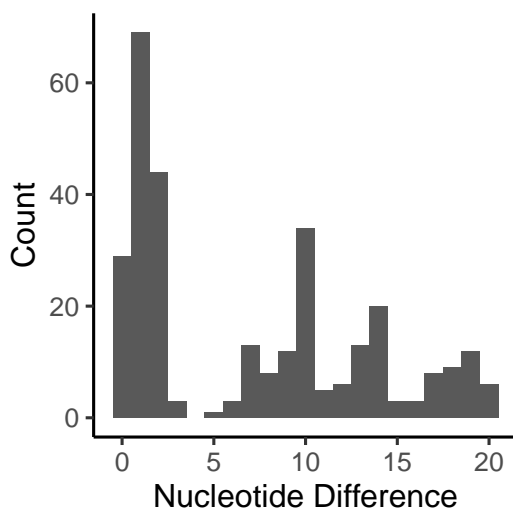
IGHV1-3*04

114 sequences assigned
No exact matches.



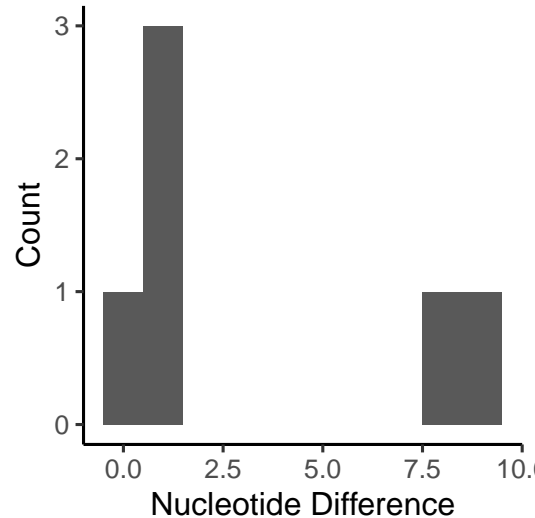
IGHV1-24*01

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



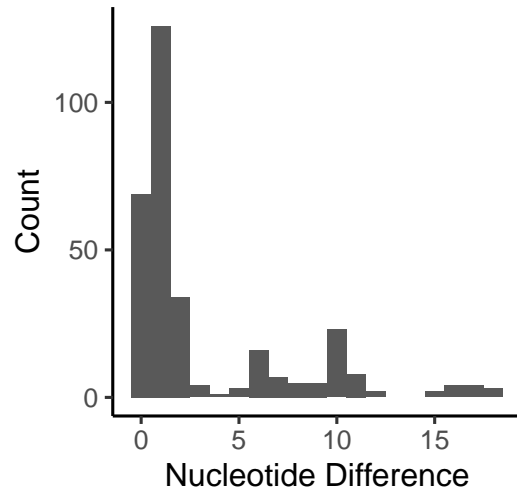
IGHV1-69-2*01

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



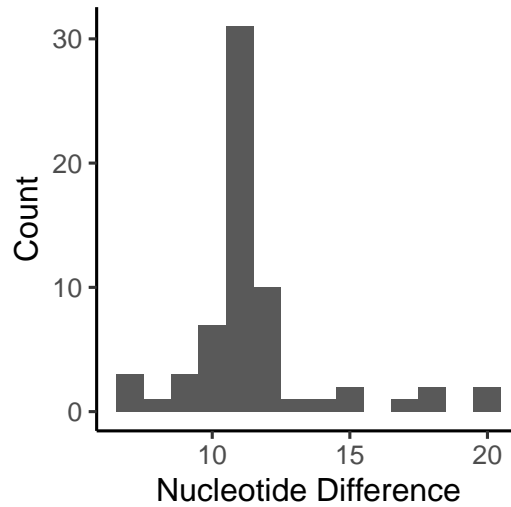
IGHV1–69*06

738 sequences assigned
69 (9.3%) exact matches, in which:
43 unique CDR3
3 unique J



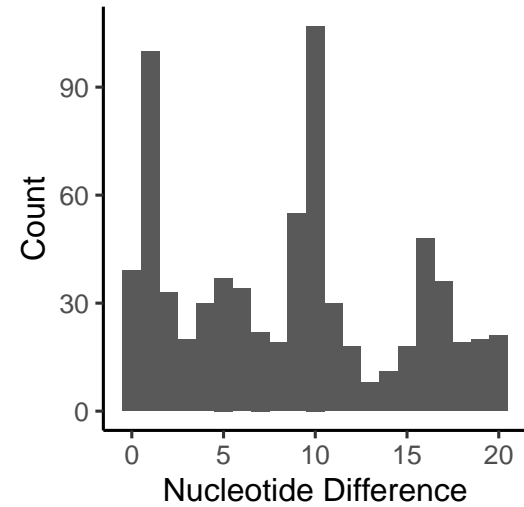
IGHV2–26*01

105 sequences assigned
No exact matches.



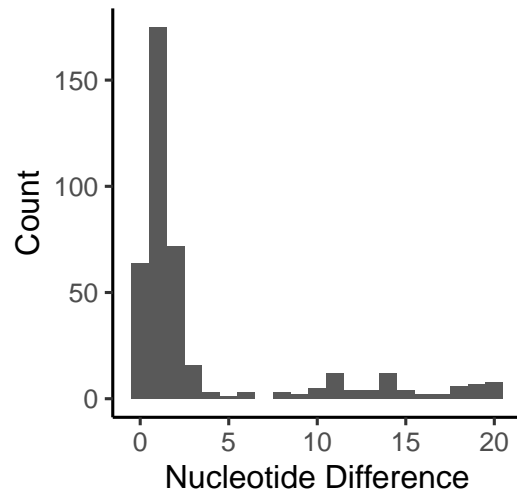
IGHV3–9*01

817 sequences assigned
39 (4.8%) exact matches, in which:
29 unique CDR3
3 unique J



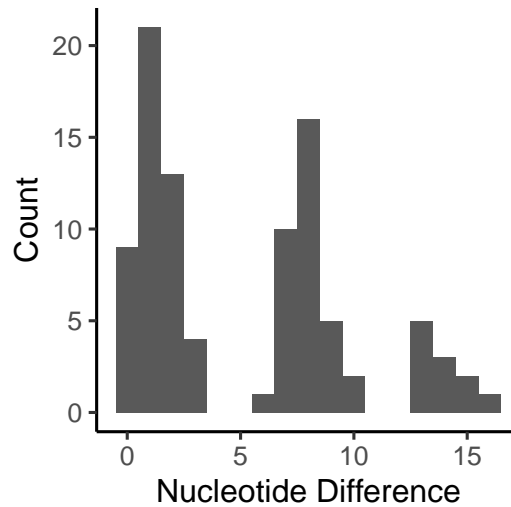
IGHV2–5*01

612 sequences assigned
64 (10.5%) exact matches, in which:
35 unique CDR3
3 unique J



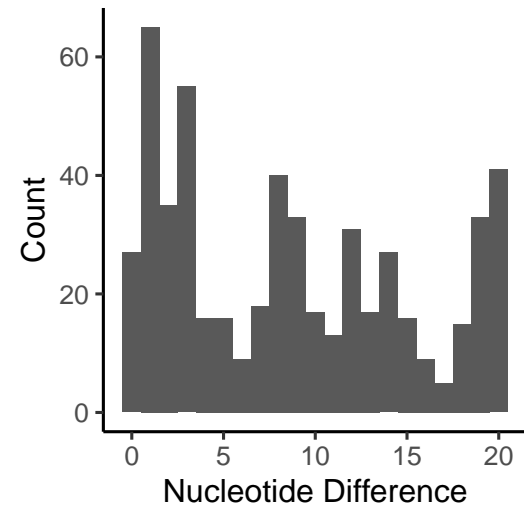
IGHV2–70*01

92 sequences assigned
9 (9.8%) exact matches, in which:
5 unique CDR3
2 unique J



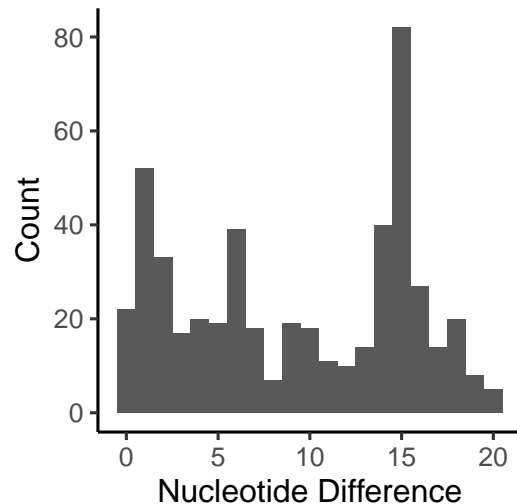
IGHV3–11*01

936 sequences assigned
27 (2.9%) exact matches, in which:
18 unique CDR3
1 unique J



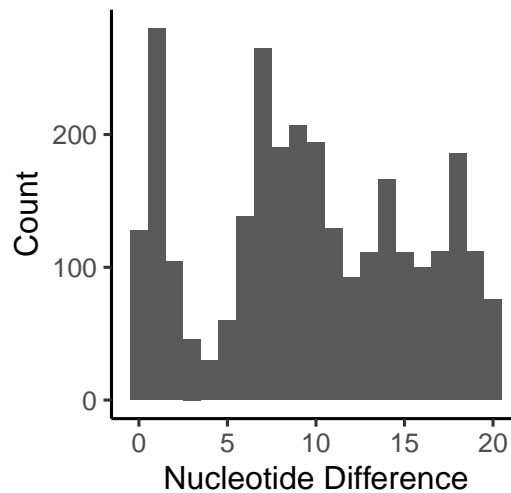
IGHV2–5*02

751 sequences assigned
22 (2.9%) exact matches, in which:
16 unique CDR3
4 unique J



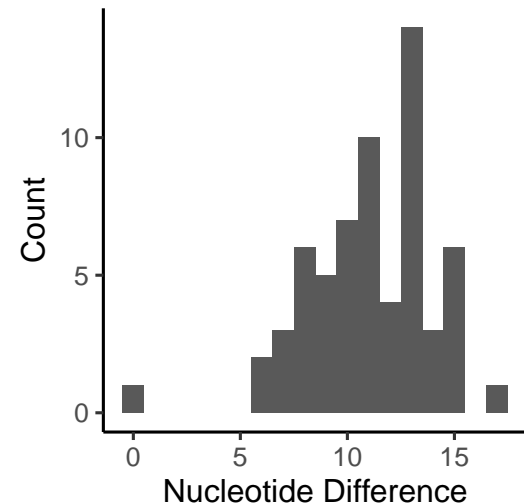
IGHV3–7*01

3758 sequences assigned
128 (3.4%) exact matches, in which:
79 unique CDR3
5 unique J



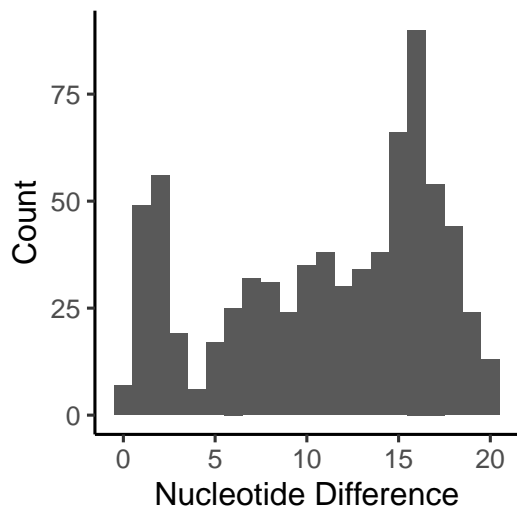
IGHV3–13*01

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



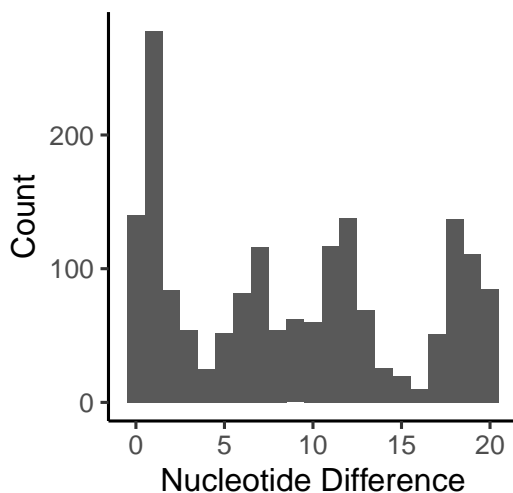
IGHV3-15*01

833 sequences assigned
7 (0.8%) exact matches, in which:
7 unique CDR3
2 unique J



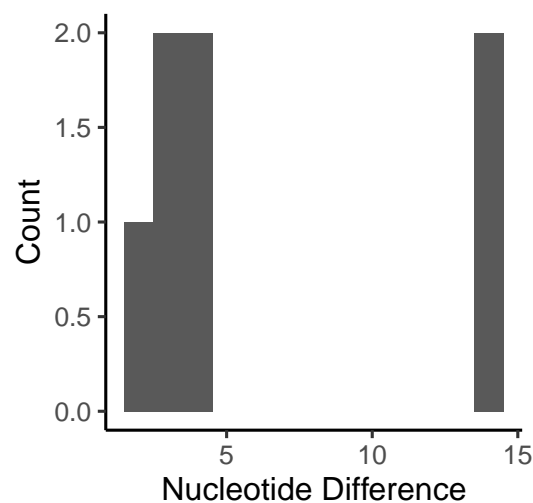
IGHV3-21*01

2175 sequences assigned
140 (6.4%) exact matches, in which:
91 unique CDR3
4 unique J



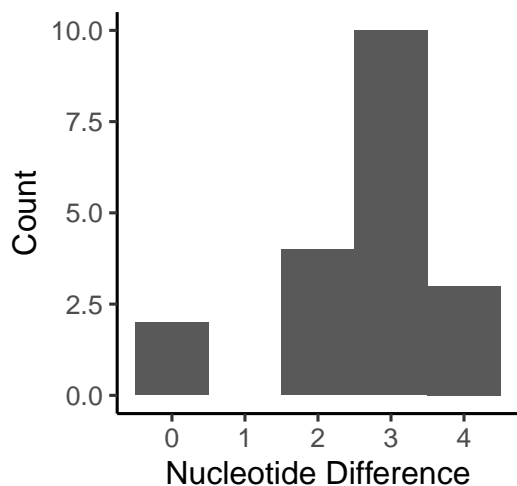
IGHV3-30-3*03

7 sequences assigned
No exact matches.



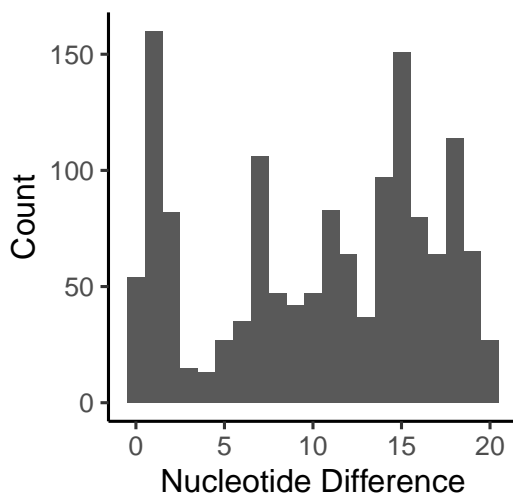
IGHV3-20*01

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



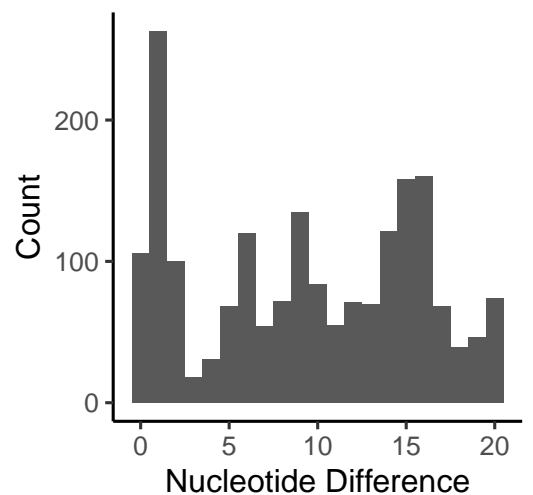
IGHV3-23*04

1974 sequences assigned
54 (2.7%) exact matches, in which:
27 unique CDR3
4 unique J



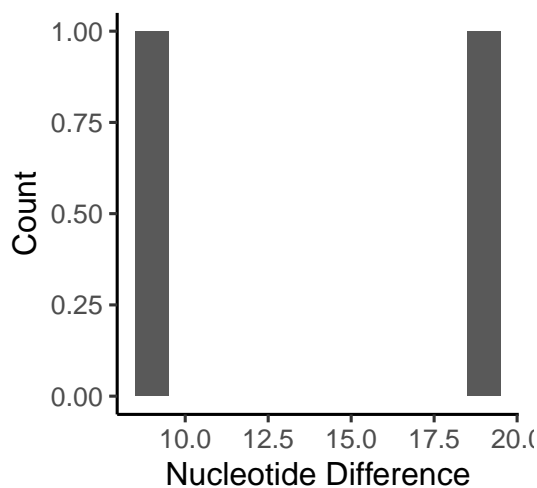
IGHV3-33*01

2777 sequences assigned
106 (3.8%) exact matches, in which:
62 unique CDR3
4 unique J



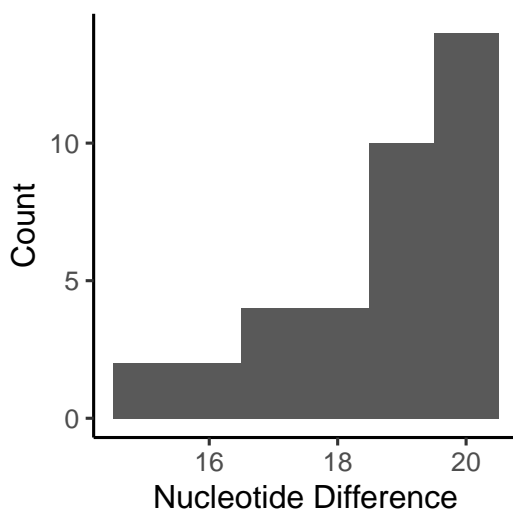
IGHV3-20*04

4 sequences assigned
No exact matches.



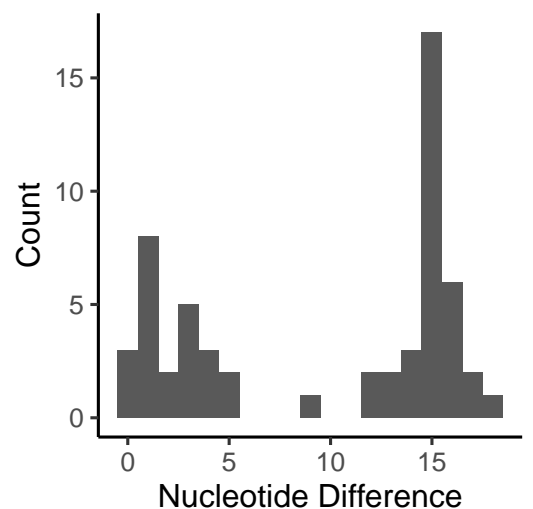
IGHV3-30*03

40 sequences assigned
No exact matches.



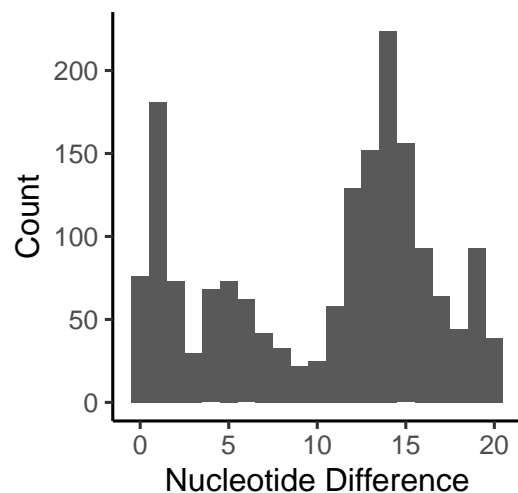
IGHV3-43*01

79 sequences assigned
3 (3.8%) exact matches, in which:
3 unique CDR3
1 unique J



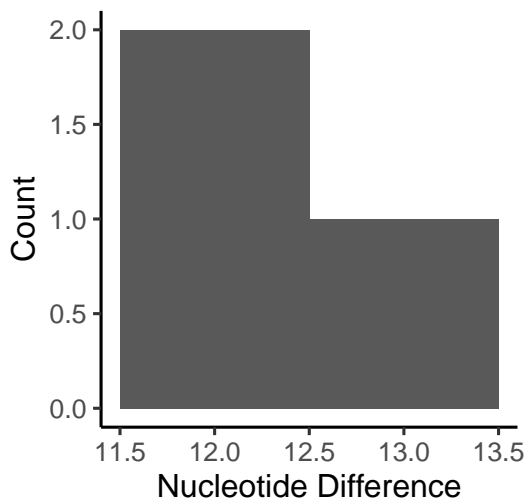
IGHV3-48*02

2108 sequences assigned
76 (3.6%) exact matches, in which:
38 unique CDR3
3 unique J



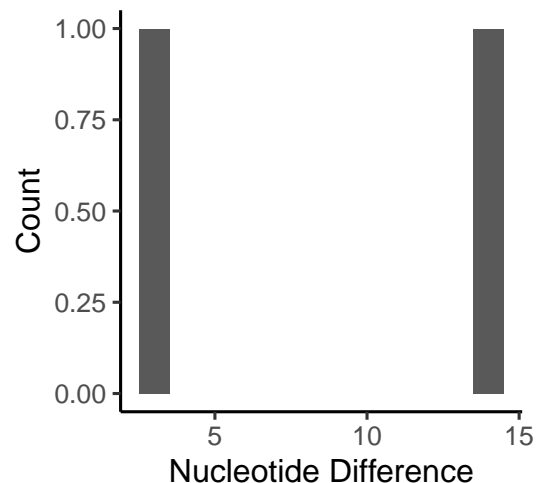
IGHV3-64*02

3 sequences assigned
No exact matches.



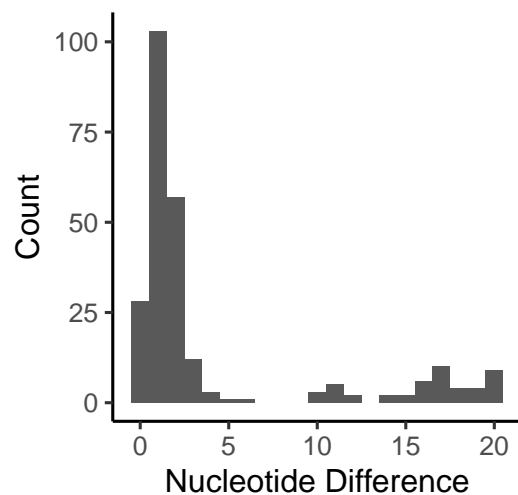
IGHV3-69-1*01

2 sequences assigned
No exact matches.



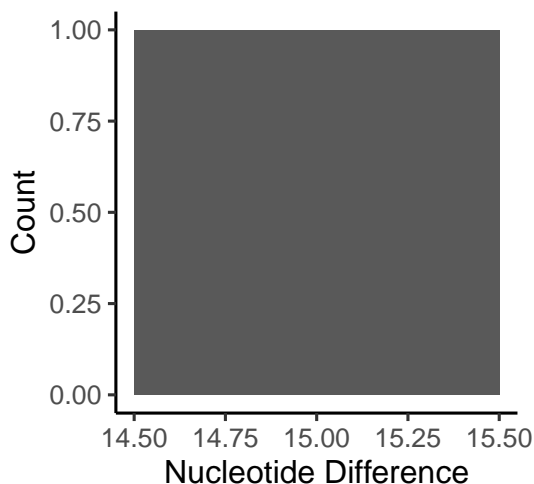
IGHV3-49*05

305 sequences assigned
28 (9.2%) exact matches, in which:
16 unique CDR3
2 unique J



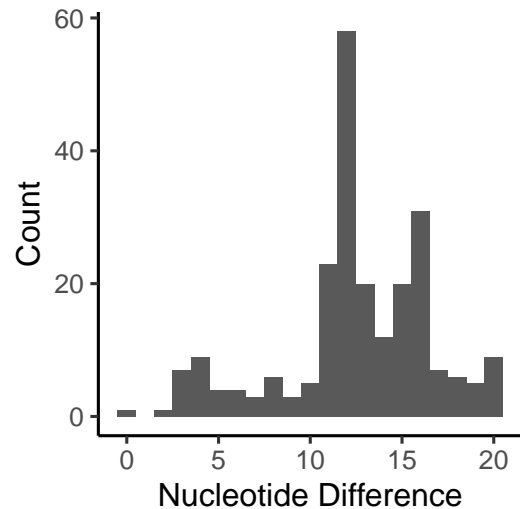
IGHV3-66*03

1 sequences assigned
No exact matches.



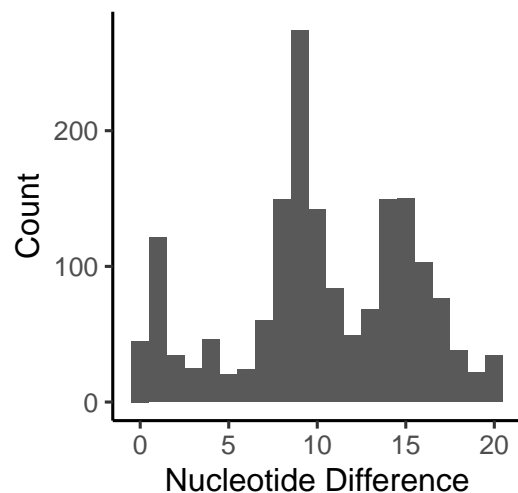
IGHV3-72*01

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



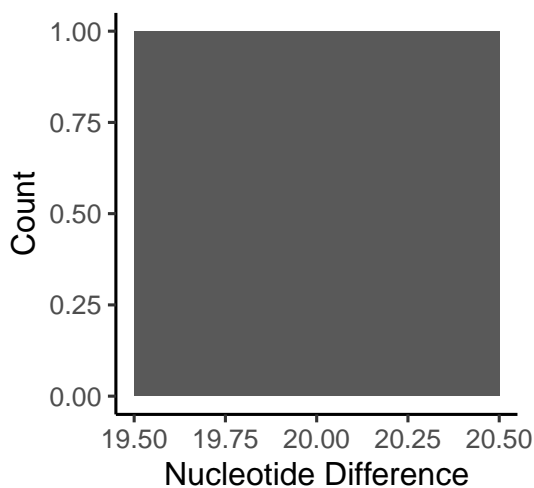
IGHV3-53*01

2458 sequences assigned
45 (1.8%) exact matches, in which:
28 unique CDR3
5 unique J



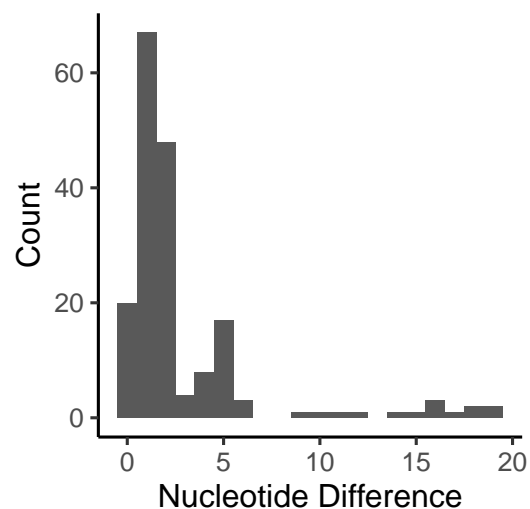
IGHV3-66*04

1 sequences assigned
No exact matches.



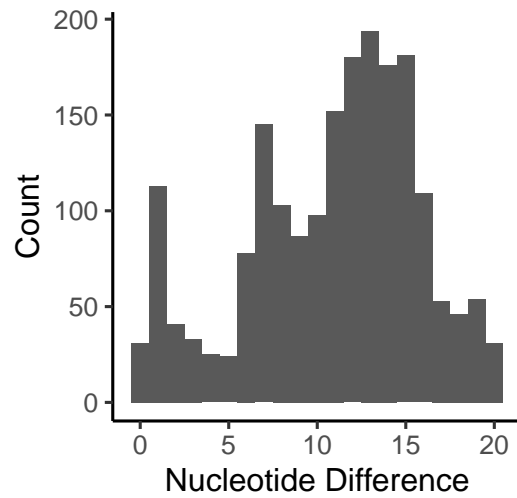
IGHV3-73*02

193 sequences assigned
20 (10.4%) exact matches, in which:
13 unique CDR3
2 unique J



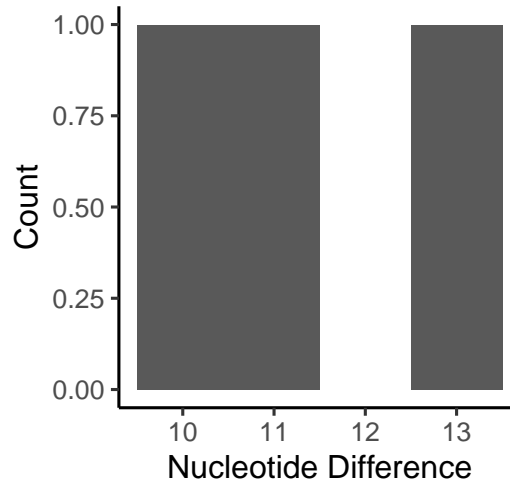
IGHV3-74*01

2295 sequences assigned
31 (1.4%) exact matches, in which:
19 unique CDR3
3 unique J



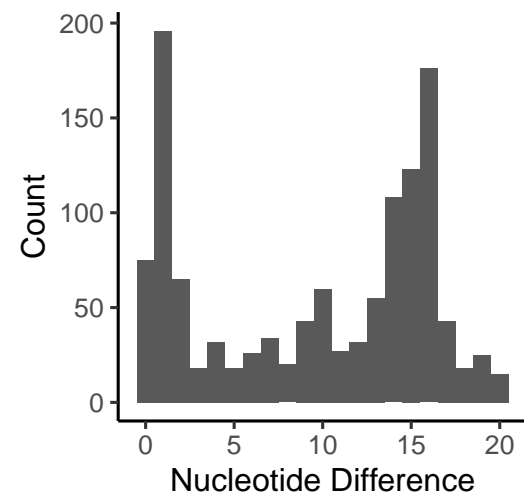
IGHV4-28*01

4 sequences assigned
No exact matches.



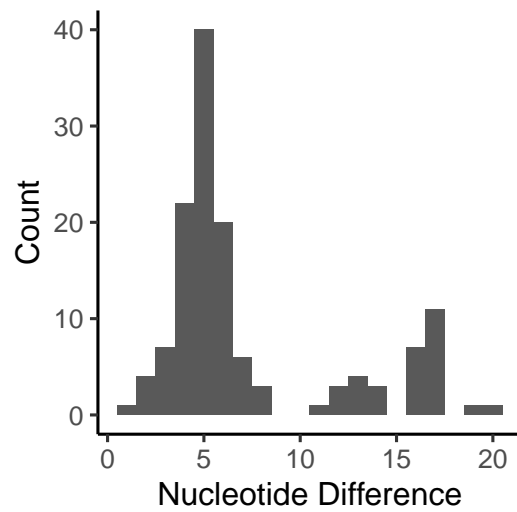
IGHV4-34*01

1704 sequences assigned
75 (4.4%) exact matches, in which:
54 unique CDR3
3 unique J



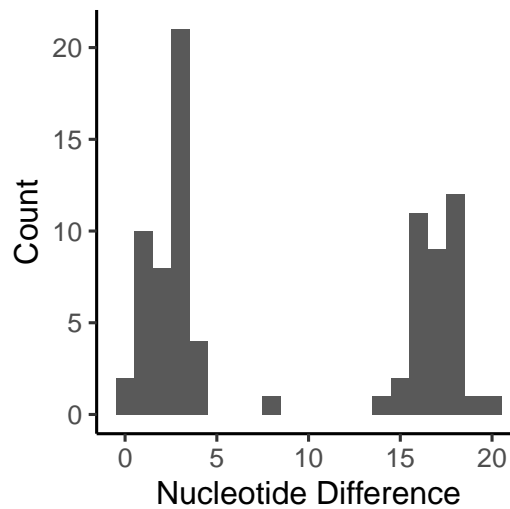
IGHV4-4*02

228 sequences assigned
No exact matches.



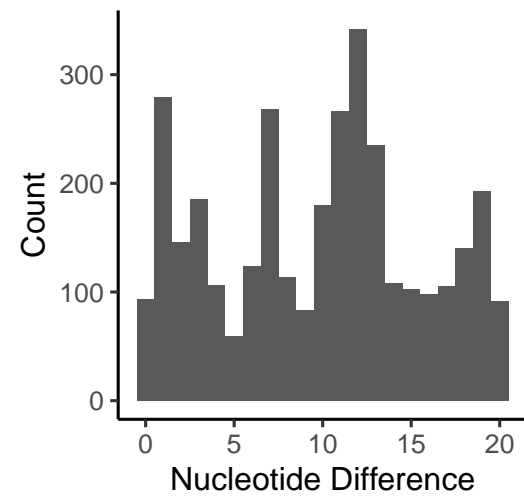
IGHV4-30-2*01

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



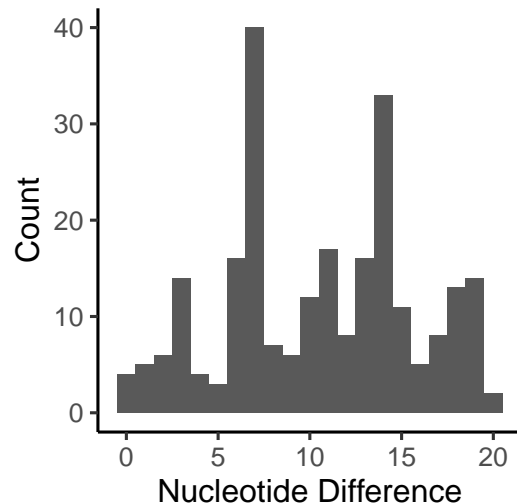
IGHV4-39*01

3989 sequences assigned
93 (2.3%) exact matches, in which:
57 unique CDR3
5 unique J



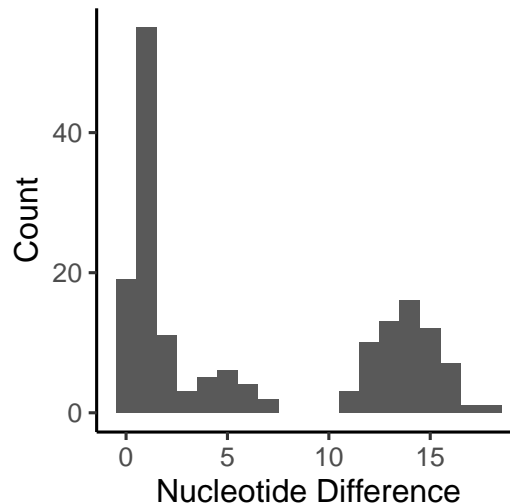
IGHV4-4*07

296 sequences assigned
4 (1.4%) exact matches, in which:
4 unique CDR3
1 unique J



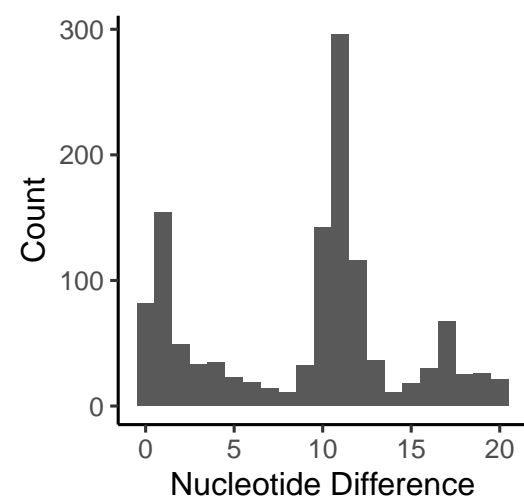
IGHV4-31*03

249 sequences assigned
19 (7.6%) exact matches, in which:
10 unique CDR3
3 unique J



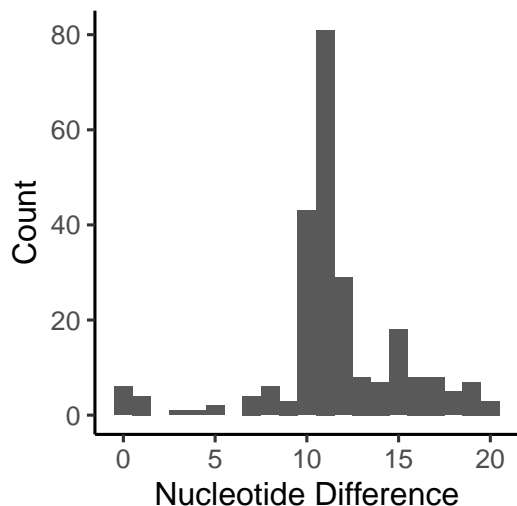
IGHV4-59*01

1679 sequences assigned
82 (4.9%) exact matches, in which:
37 unique CDR3
4 unique J



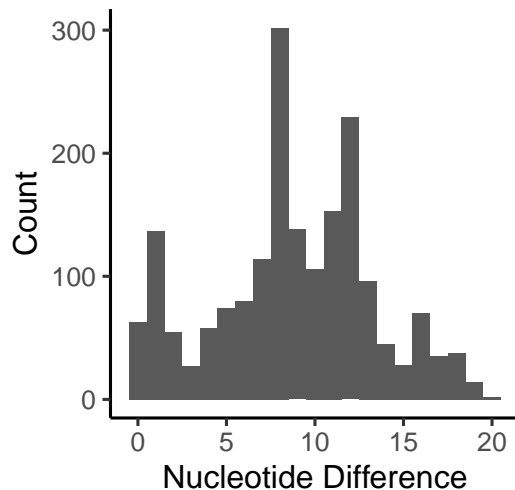
IGHV4-61*01

322 sequences assigned
6 (1.9%) exact matches, in which:
4 unique CDR3
3 unique J



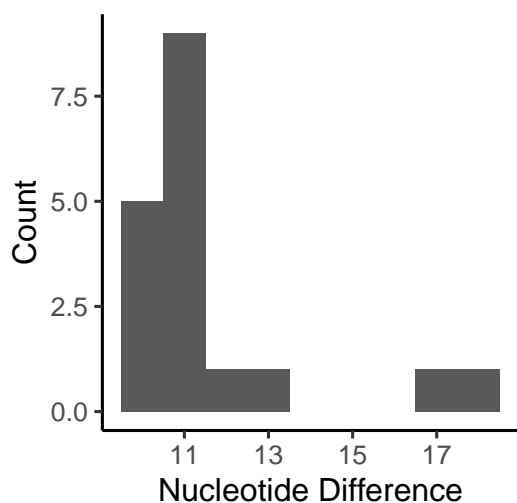
IGHV6-1*01

1900 sequences assigned
63 (3.3%) exact matches, in which:
27 unique CDR3
3 unique J



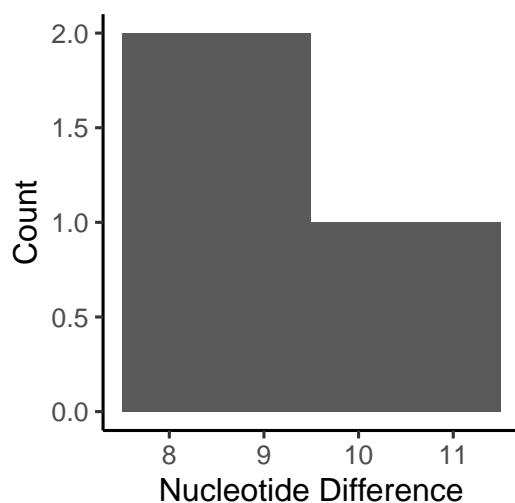
IGHV4-61*08

34 sequences assigned
No exact matches.



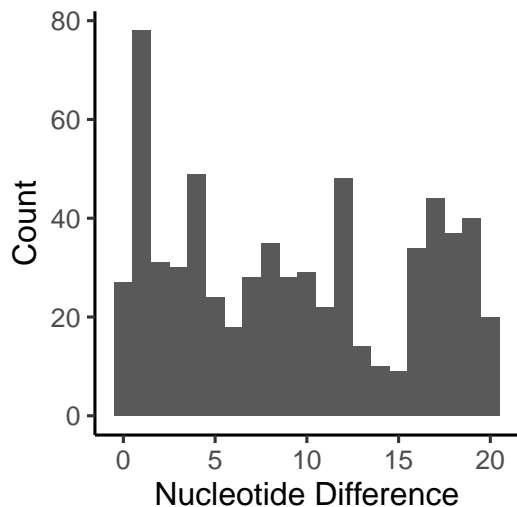
IGHV7-4-1*01

6 sequences assigned
No exact matches.



IGHV5-51*01

1348 sequences assigned
27 (2%) exact matches, in which:
15 unique CDR3
5 unique J





Warning – no inferred sequences found.