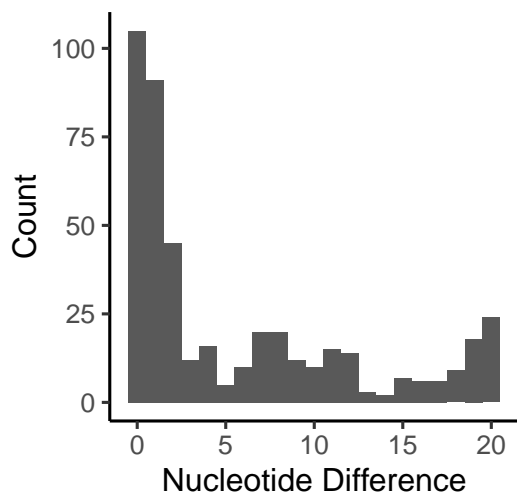


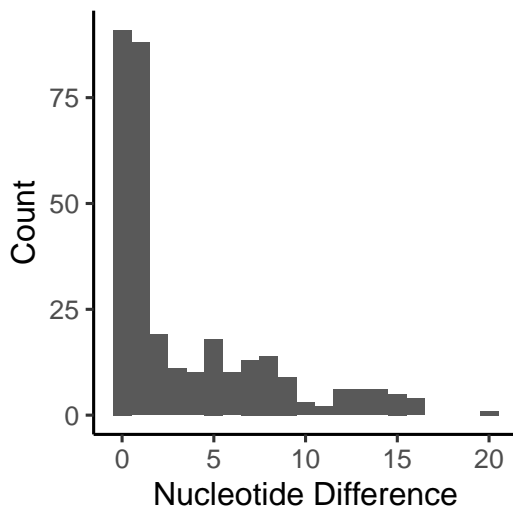
IGHV1-2*02

507 sequences assigned
105 (20.7%) exact matches, in which:
87 unique CDR3
5 unique J



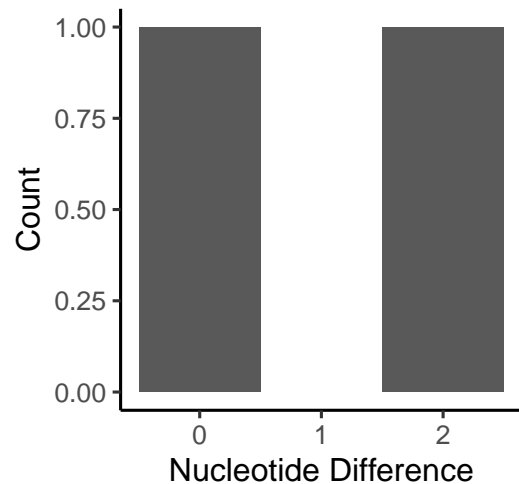
IGHV1-18*01

325 sequences assigned
91 (28%) exact matches, in which:
75 unique CDR3
6 unique J



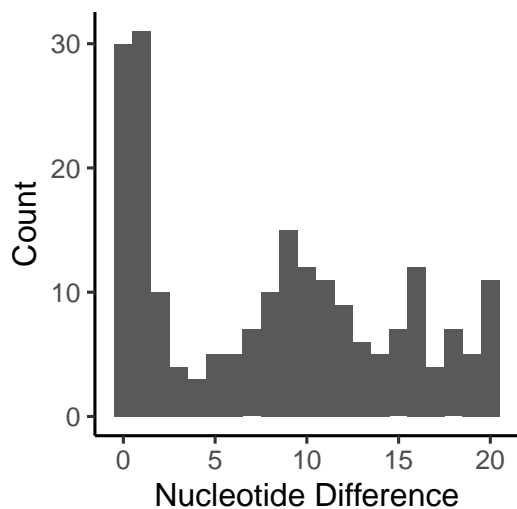
IGHV1-45*02

2 sequences assigned
1 (50%) exact matches, in which:
1 unique CDR3
1 unique J



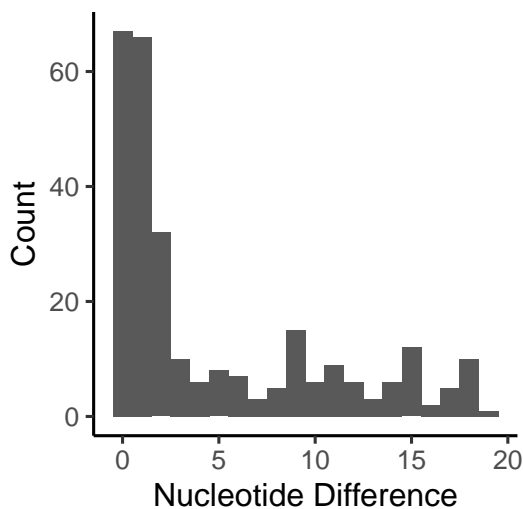
IGHV1-3*01

288 sequences assigned
30 (10.4%) exact matches, in which:
21 unique CDR3
5 unique J



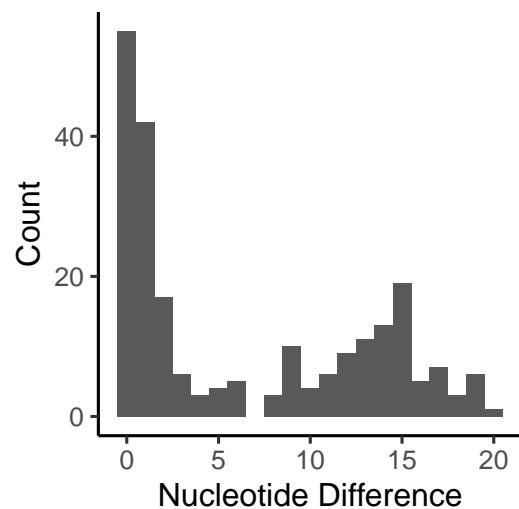
IGHV1-18*04

356 sequences assigned
67 (18.8%) exact matches, in which:
46 unique CDR3
6 unique J



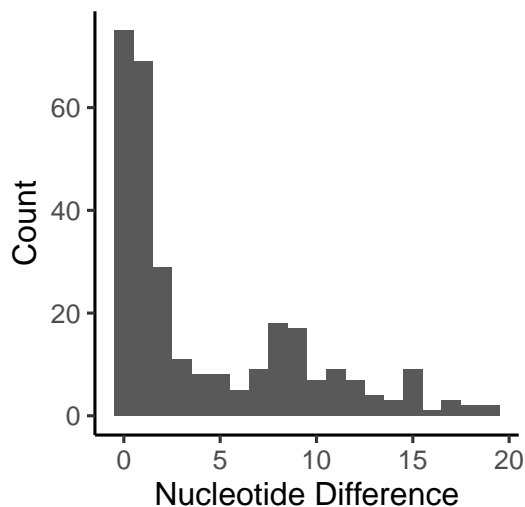
IGHV1-46*01

250 sequences assigned
55 (22%) exact matches, in which:
47 unique CDR3
6 unique J



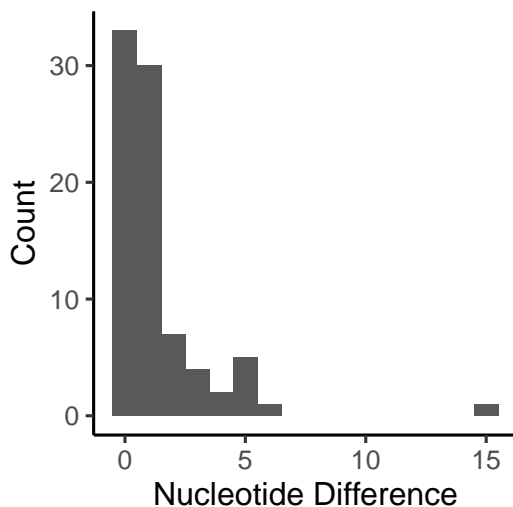
IGHV1-8*03

298 sequences assigned
75 (25.2%) exact matches, in which:
56 unique CDR3
6 unique J



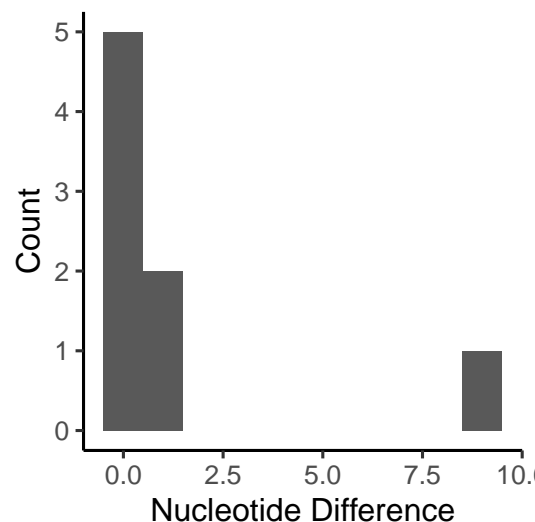
IGHV1-24*01

83 sequences assigned
33 (39.8%) exact matches, in which:
32 unique CDR3
4 unique J



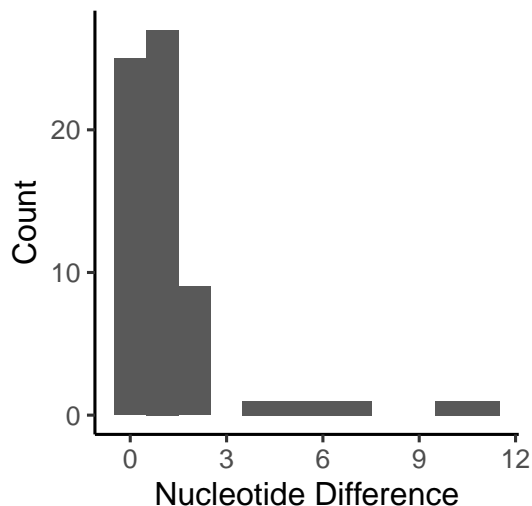
IGHV1-58*02

26 sequences assigned
5 (19.2%) exact matches, in which:
4 unique CDR3
3 unique J



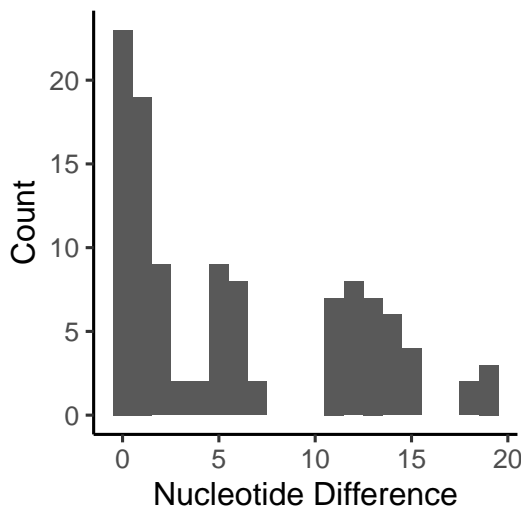
IGHV1-69-2*01

67 sequences assigned
25 (37.3%) exact matches, in which:
22 unique CDR3
5 unique J



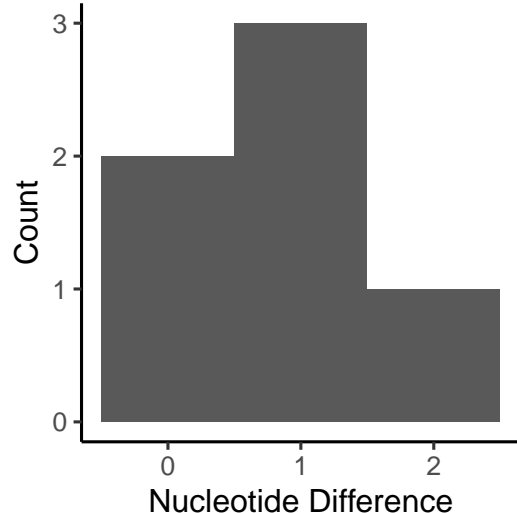
IGHV2-5*01

111 sequences assigned
23 (20.7%) exact matches, in which:
22 unique CDR3
5 unique J



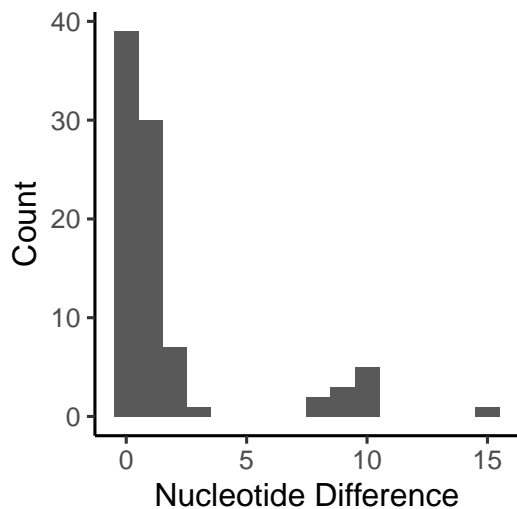
IGHV2-26*02

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



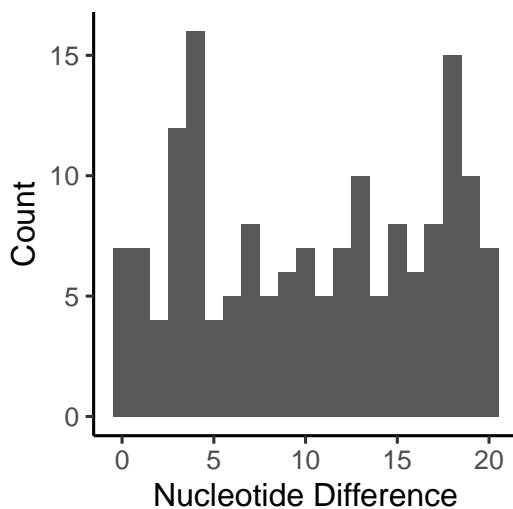
IGHV1-69*09

94 sequences assigned
39 (41.5%) exact matches, in which:
39 unique CDR3
4 unique J



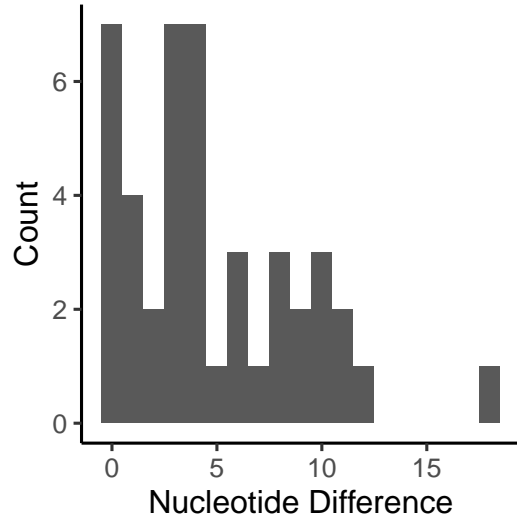
IGHV2-5*02

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



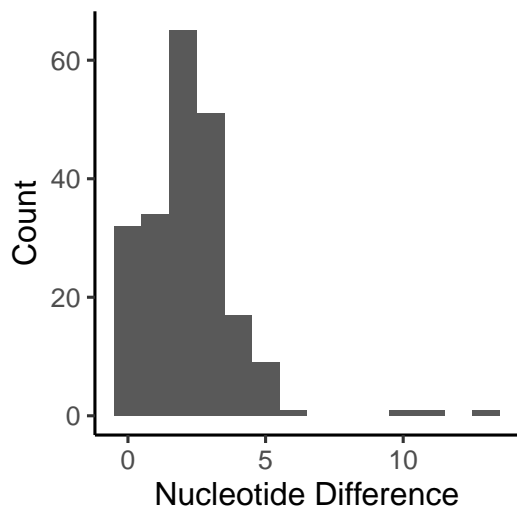
IGHV2-70*15

44 sequences assigned
7 (15.9%) exact matches, in which:
7 unique CDR3
2 unique J



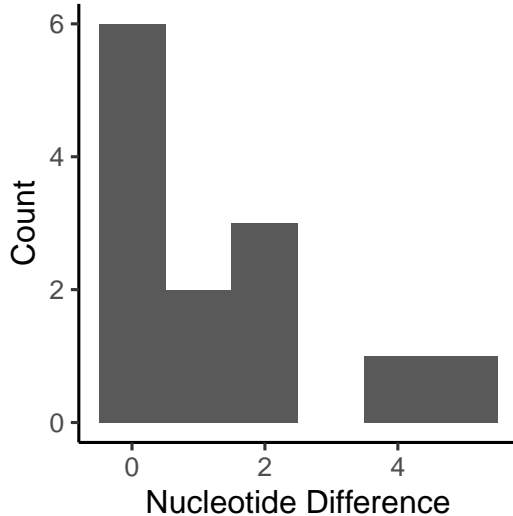
IGHV1-69*10

212 sequences assigned
32 (15.1%) exact matches, in which:
26 unique CDR3
5 unique J



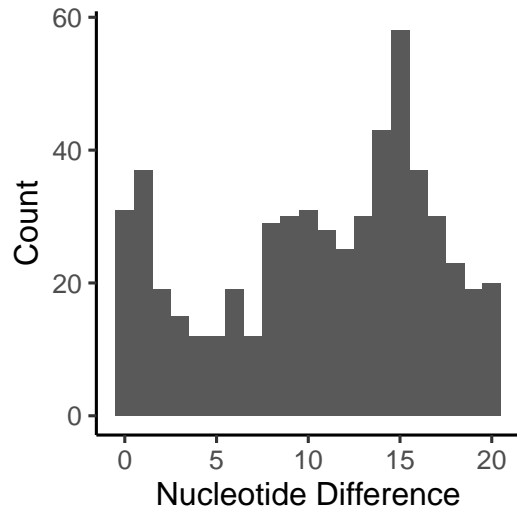
IGHV2-26*01

13 sequences assigned
6 (46.2%) exact matches, in which:
6 unique CDR3
3 unique J



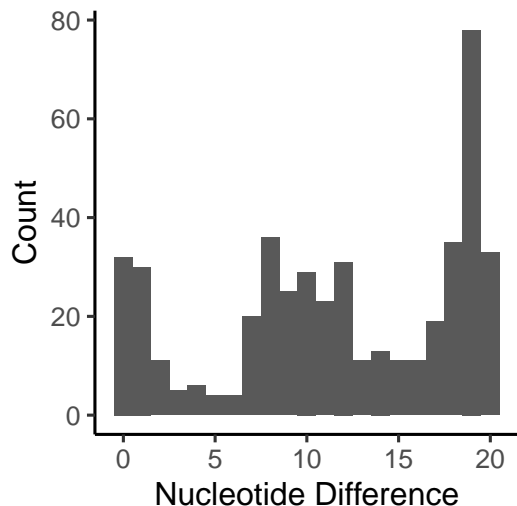
IGHV3-7*01

604 sequences assigned
31 (5.1%) exact matches, in which:
23 unique CDR3
4 unique J



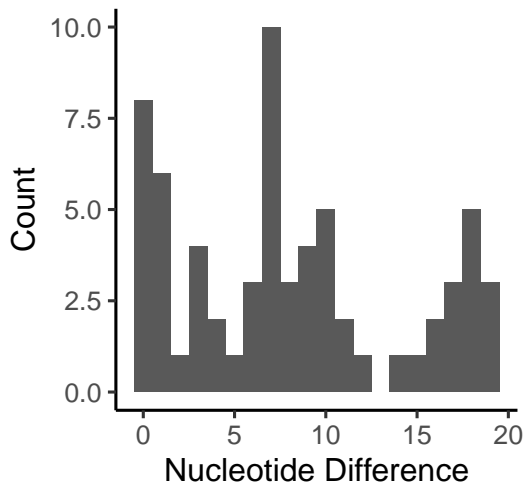
IGHV3-7*03

564 sequences assigned
32 (5.7%) exact matches, in which:
22 unique CDR3
5 unique J



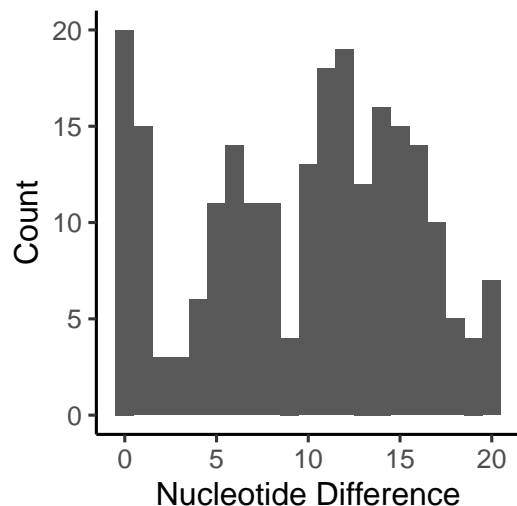
IGHV3-11*06

78 sequences assigned
8 (10.3%) exact matches, in which:
7 unique CDR3
1 unique J



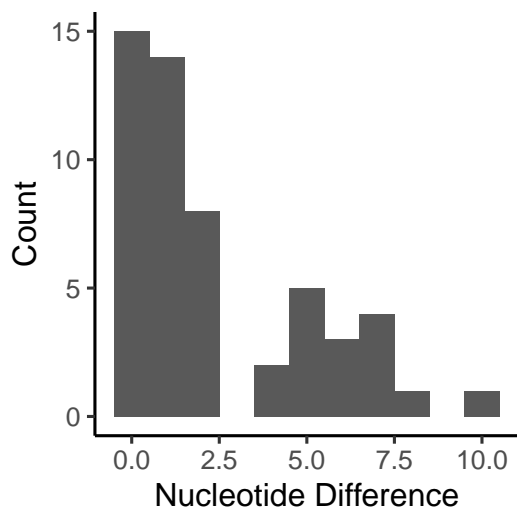
IGHV3-15*01

283 sequences assigned
20 (7.1%) exact matches, in which:
20 unique CDR3
6 unique J



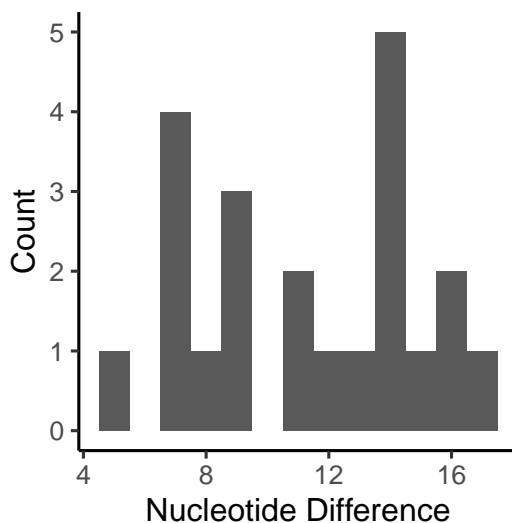
IGHV3-9*03

54 sequences assigned
15 (27.8%) exact matches, in which:
11 unique CDR3
4 unique J



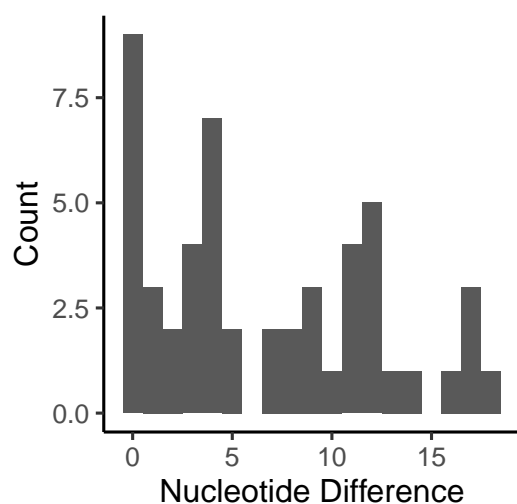
IGHV3-13*01

22 sequences assigned
No exact matches.



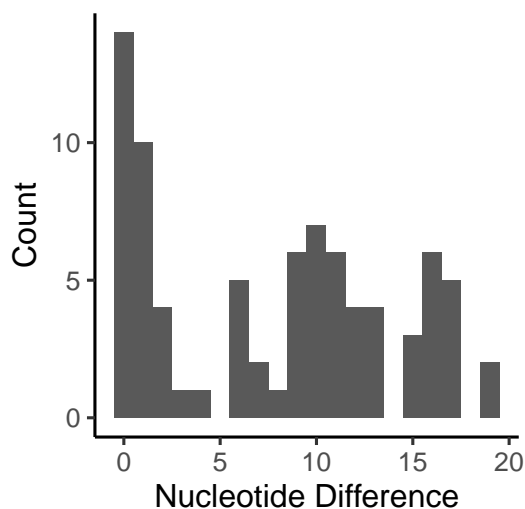
IGHV3-20*04

55 sequences assigned
9 (16.4%) exact matches, in which:
8 unique CDR3
2 unique J



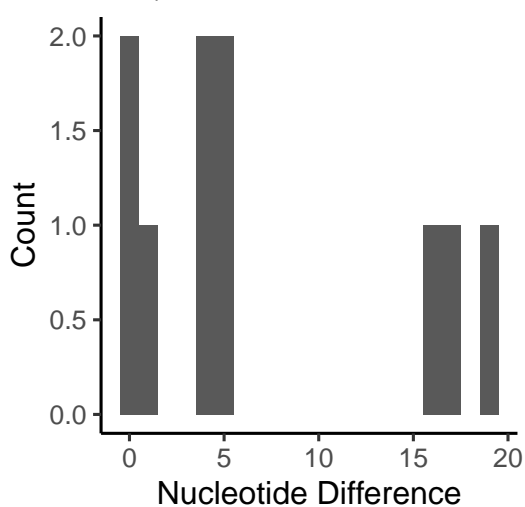
IGHV3-11*04

81 sequences assigned
14 (17.3%) exact matches, in which:
13 unique CDR3
3 unique J



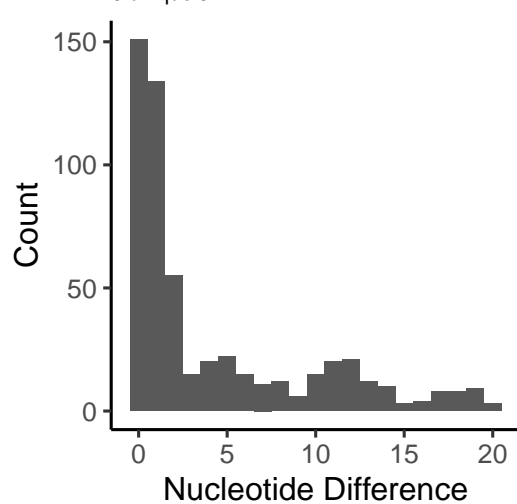
IGHV3-13*05

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



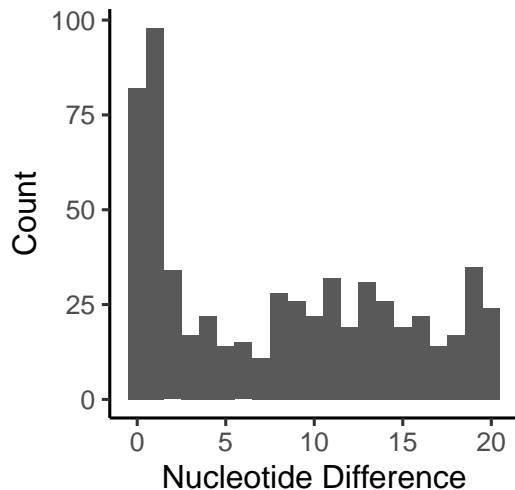
IGHV3-21*01

587 sequences assigned
151 (25.7%) exact matches, in which:
98 unique CDR3
6 unique J



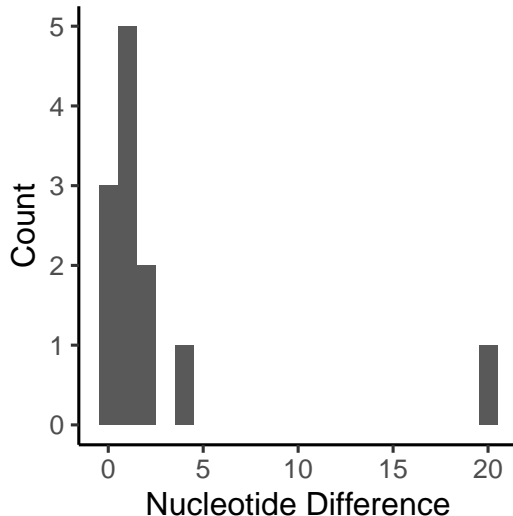
IGHV3-23*04

724 sequences assigned
82 (11.3%) exact matches, in which:
64 unique CDR3
4 unique J



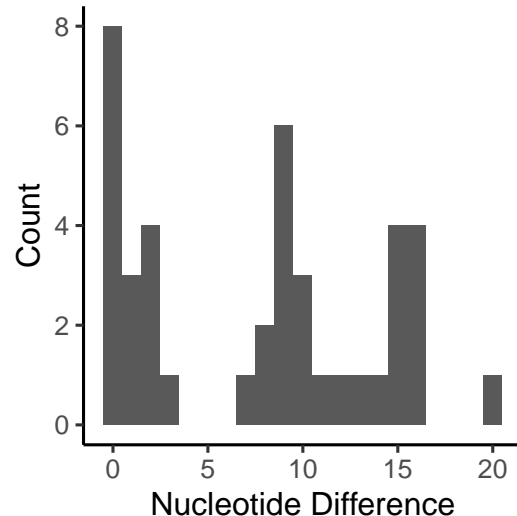
IGHV3-43*01

12 sequences assigned
3 (25%) exact matches, in which:
3 unique CDR3
2 unique J



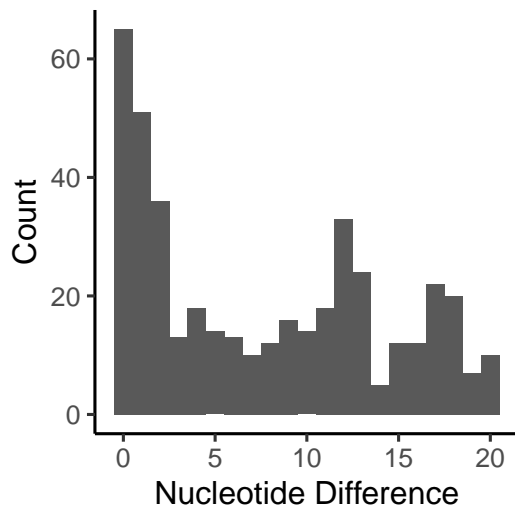
IGHV3-49*03

49 sequences assigned
8 (16.3%) exact matches, in which:
7 unique CDR3
3 unique J



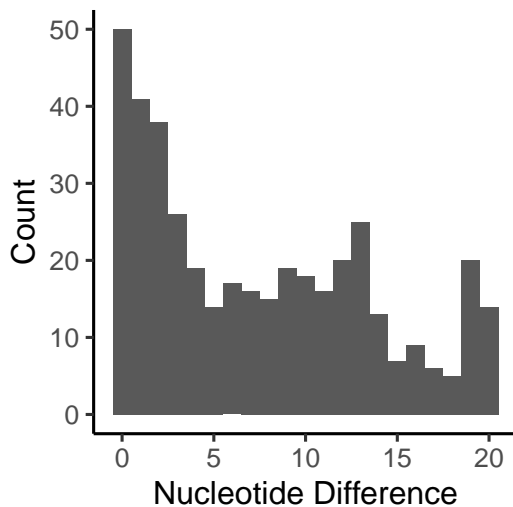
IGHV3-30-3*01

494 sequences assigned
65 (13.2%) exact matches, in which:
47 unique CDR3
4 unique J



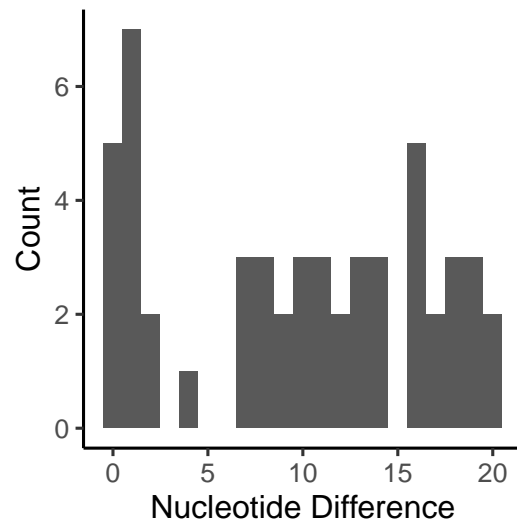
IGHV3-48*03

480 sequences assigned
50 (10.4%) exact matches, in which:
39 unique CDR3
5 unique J



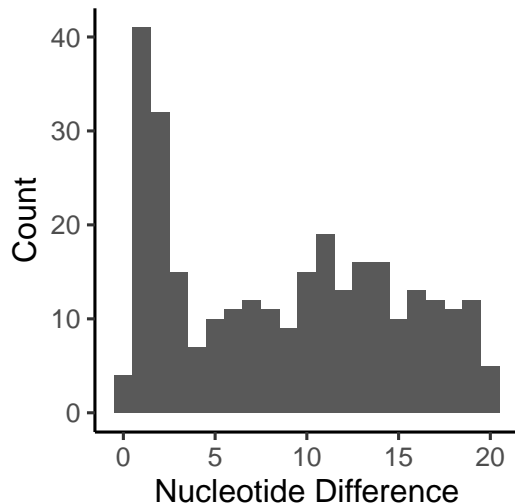
IGHV3-49*04

57 sequences assigned
5 (8.8%) exact matches, in which:
4 unique CDR3
2 unique J



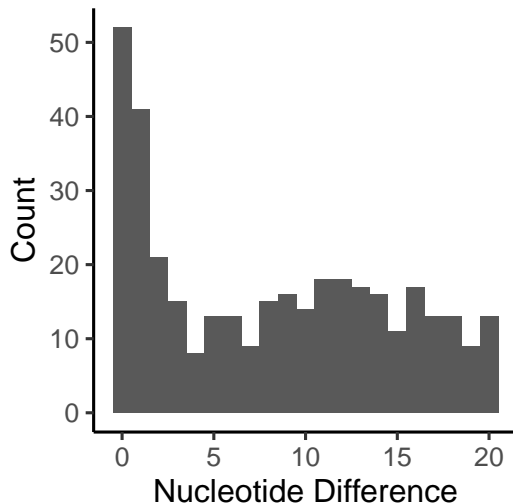
IGHV3-33*01

364 sequences assigned
4 (1.1%) exact matches, in which:
3 unique CDR3
1 unique J



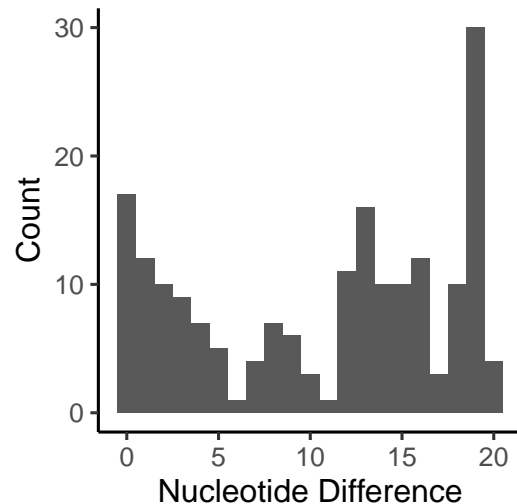
IGHV3-48*04

433 sequences assigned
52 (12%) exact matches, in which:
40 unique CDR3
6 unique J



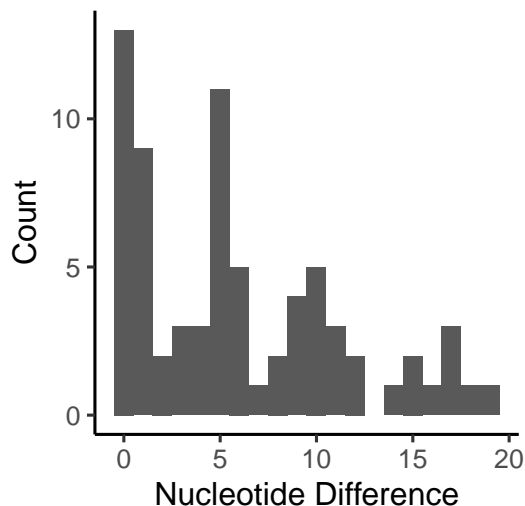
IGHV3-53*02

197 sequences assigned
17 (8.6%) exact matches, in which:
17 unique CDR3
3 unique J



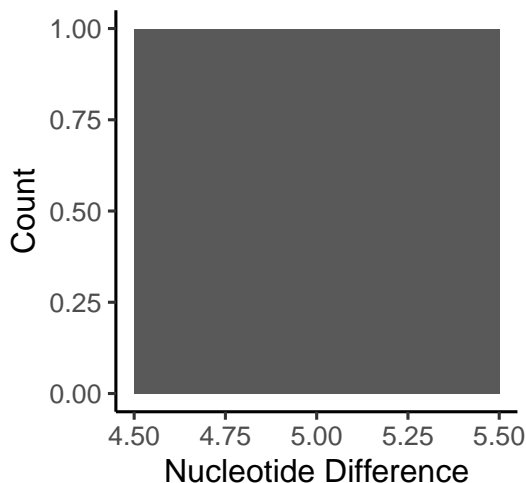
IGHV3-53*04

74 sequences assigned
13 (17.6%) exact matches, in which:
11 unique CDR3
5 unique J



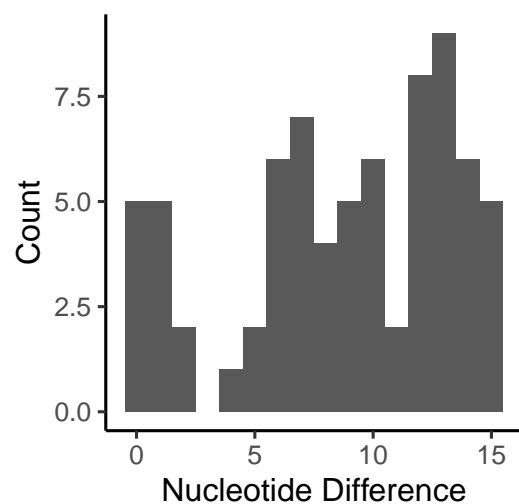
IGHV3-69-1*01

6 sequences assigned
No exact matches.



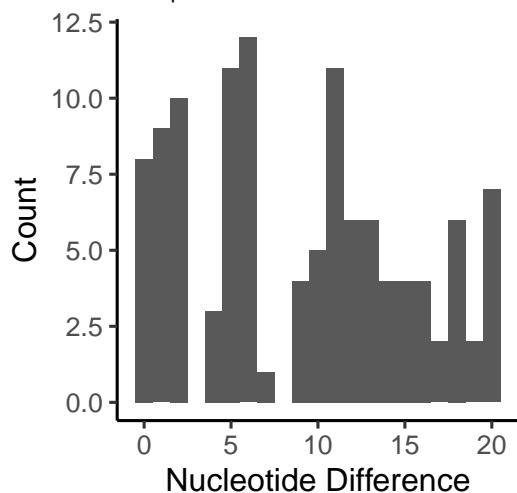
IGHV3-73*02

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



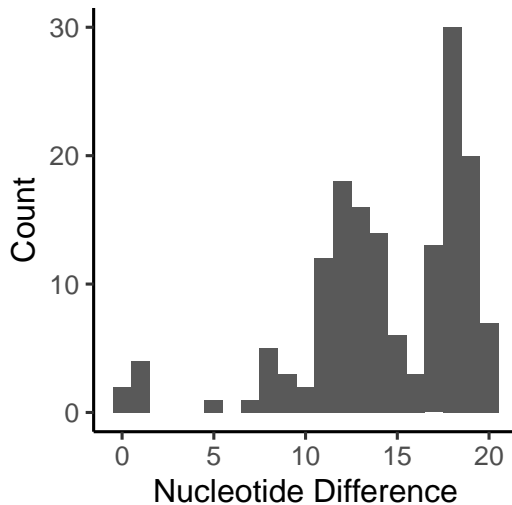
IGHV3-64*01

128 sequences assigned
8 (6.2%) exact matches, in which:
6 unique CDR3
1 unique J



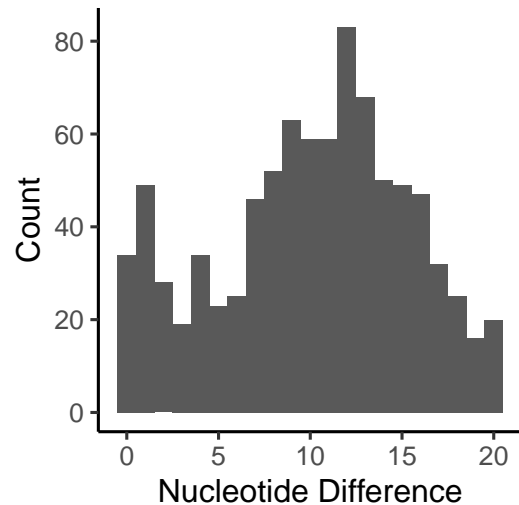
IGHV3-72*01

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



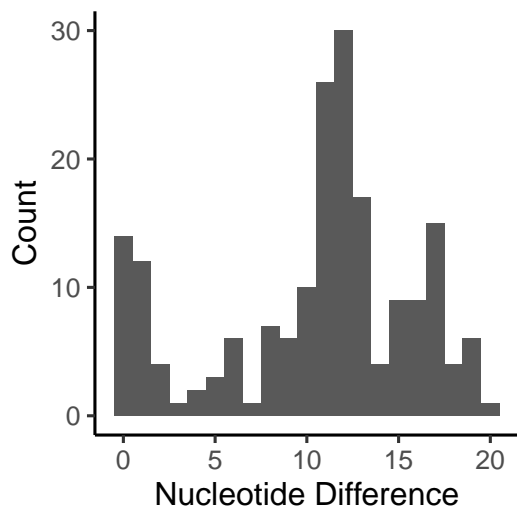
IGHV3-74*01

1049 sequences assigned
34 (3.2%) exact matches, in which:
25 unique CDR3
3 unique J



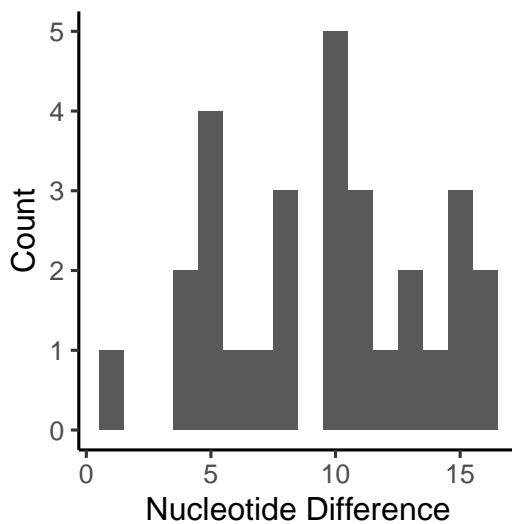
IGHV3-66*01

221 sequences assigned
14 (6.3%) exact matches, in which:
12 unique CDR3
4 unique J



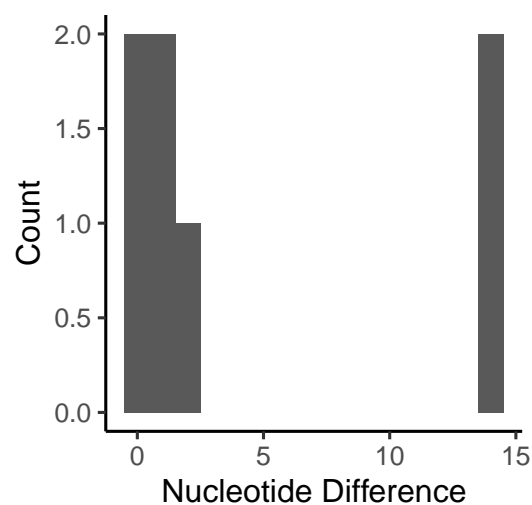
IGHV3-73*01

31 sequences assigned
No exact matches.



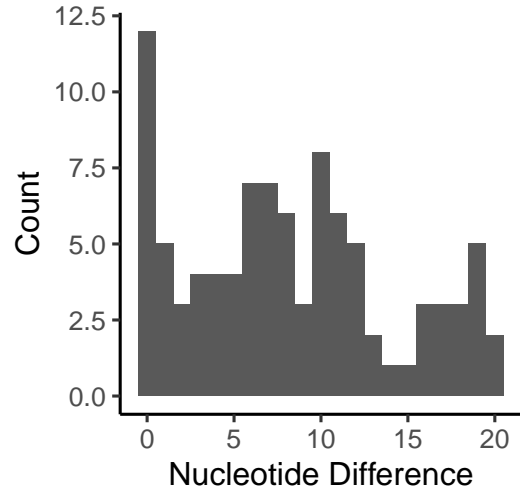
IGHV3-43D*04

7 sequences assigned
2 (28.6%) exact matches, in which:
2 unique CDR3
2 unique J



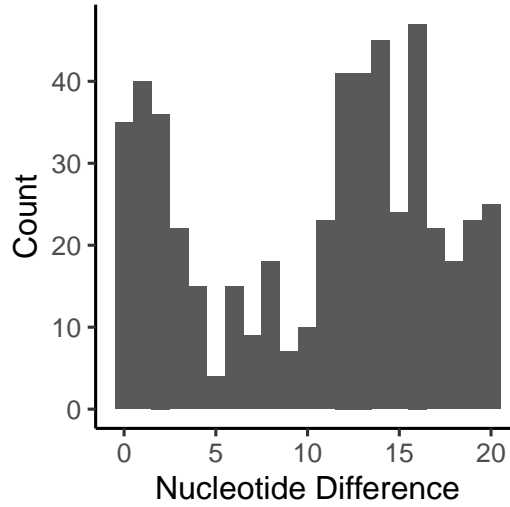
IGHV3-64D*06

102 sequences assigned
12 (11.8%) exact matches, in which:
9 unique CDR3
2 unique J



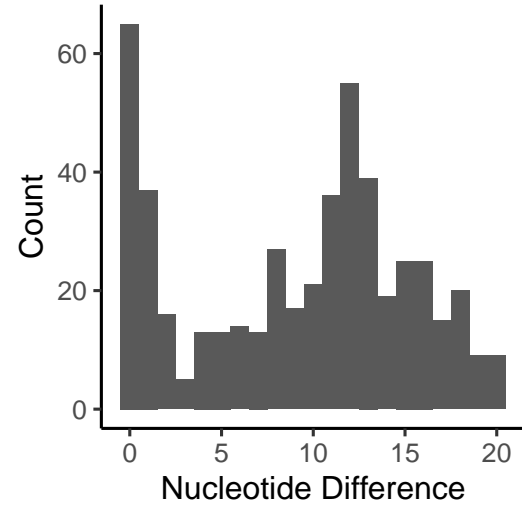
IGHV4-4*07

704 sequences assigned
35 (5%) exact matches, in which:
29 unique CDR3
5 unique J



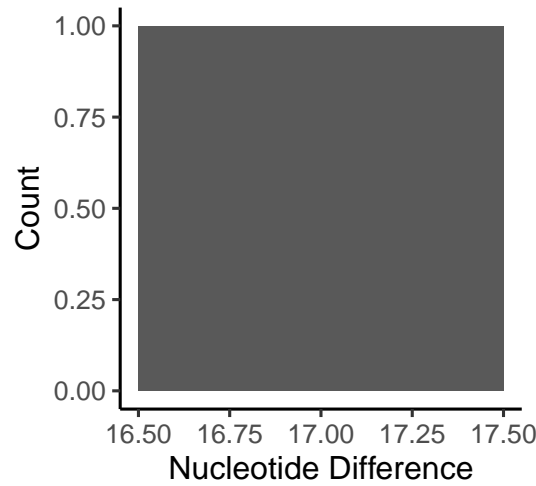
IGHV4-34*01

518 sequences assigned
65 (12.5%) exact matches, in which:
44 unique CDR3
6 unique J



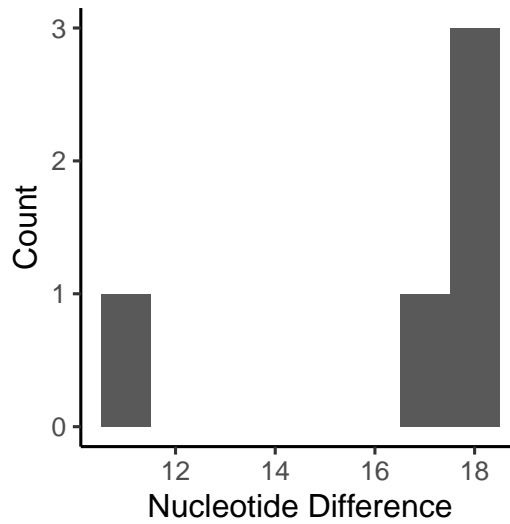
IGHV3-NL1*01

1 sequences assigned
No exact matches.



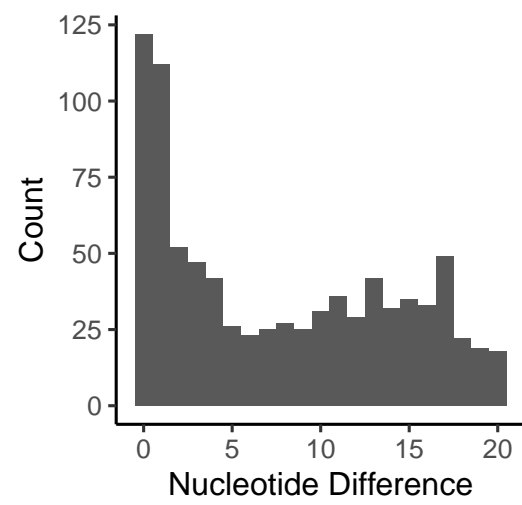
IGHV4-28*07

5 sequences assigned
No exact matches.



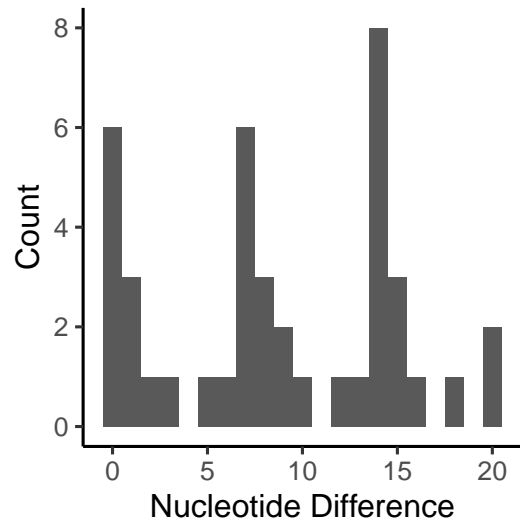
IGHV4-38-2*01

928 sequences assigned
122 (13.1%) exact matches, in which:
87 unique CDR3
5 unique J



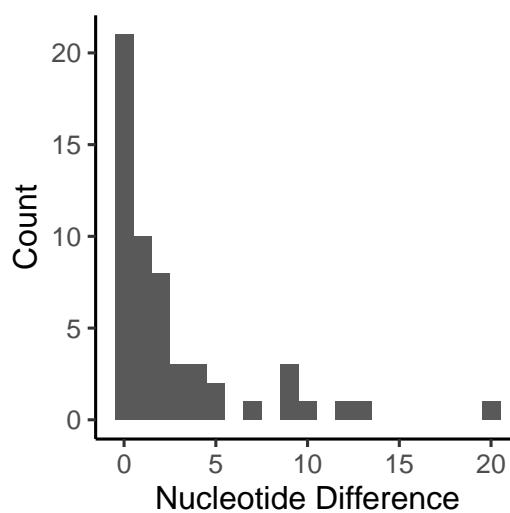
IGHV4-4*02

54 sequences assigned
6 (11.1%) exact matches, in which:
5 unique CDR3
4 unique J



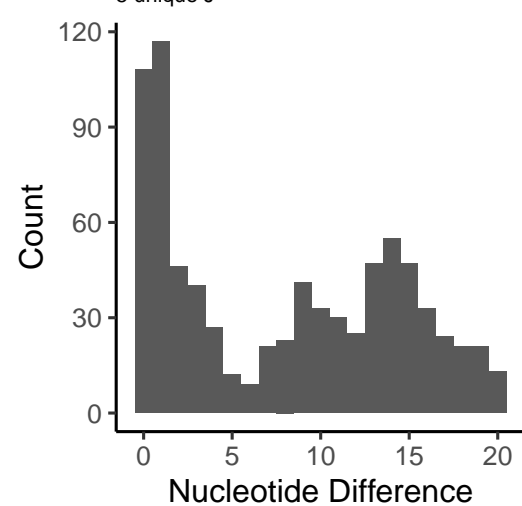
IGHV4-30-4*08

55 sequences assigned
21 (38.2%) exact matches, in which:
18 unique CDR3
3 unique J



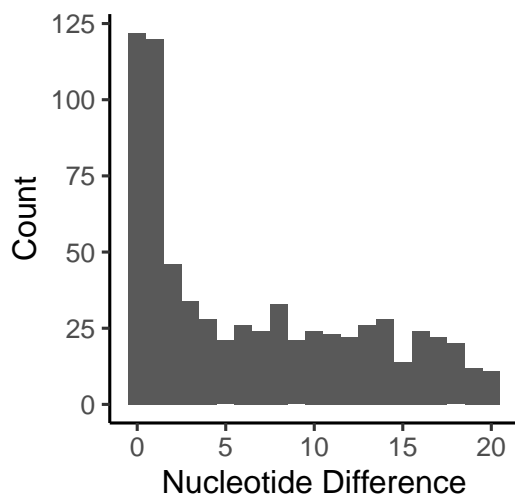
IGHV4-39*01

872 sequences assigned
108 (12.4%) exact matches, in which:
77 unique CDR3
5 unique J



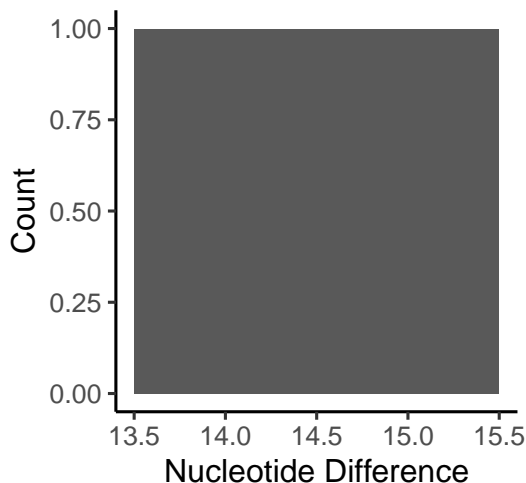
IGHV4–39*07

791 sequences assigned
122 (15.4%) exact matches, in which:
103 unique CDR3
6 unique J



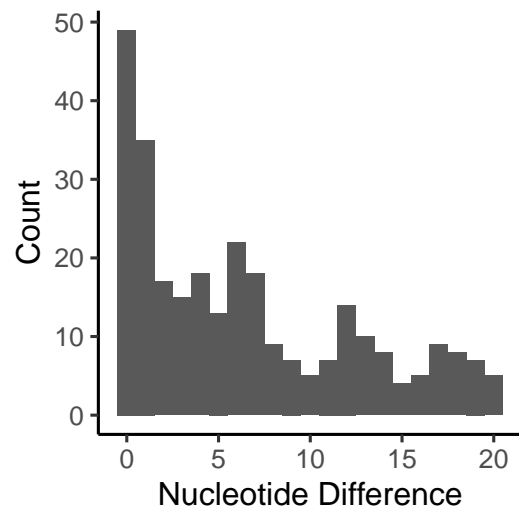
IGHV4–61*01

2 sequences assigned
No exact matches.



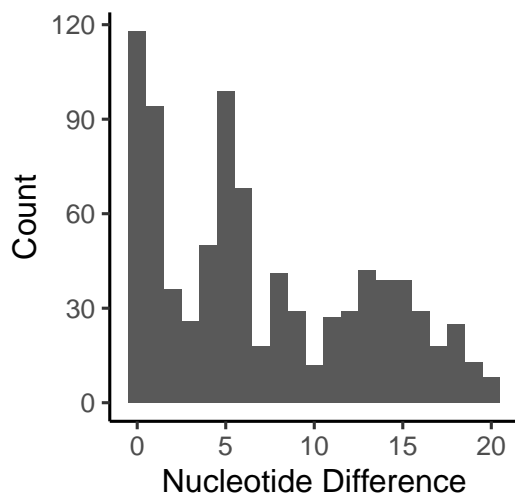
IGHV6–1*01

310 sequences assigned
49 (15.8%) exact matches, in which:
38 unique CDR3
6 unique J



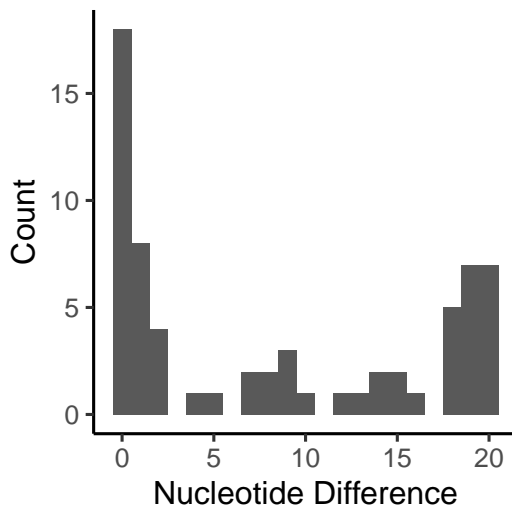
IGHV4–59*01

930 sequences assigned
118 (12.7%) exact matches, in which:
86 unique CDR3
7 unique J



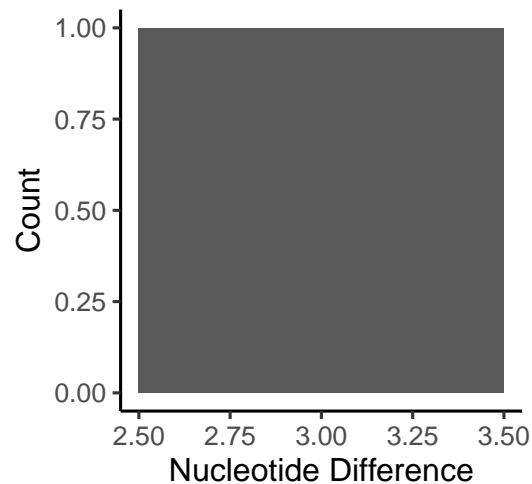
IGHV5–10–1*03

67 sequences assigned
18 (26.9%) exact matches, in which:
16 unique CDR3
5 unique J



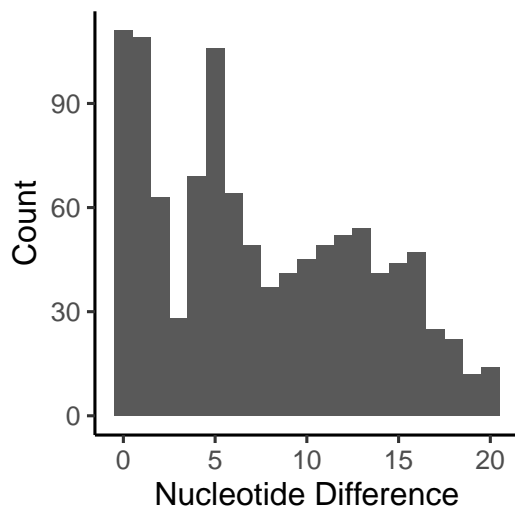
IGHV7–4–1*01

1 sequences assigned
No exact matches.



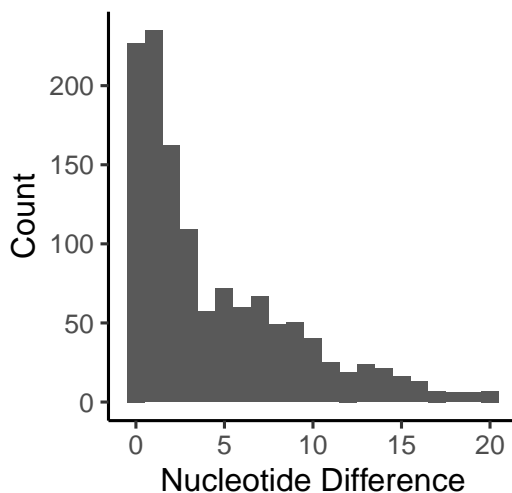
IGHV4–59*08

1185 sequences assigned
111 (9.4%) exact matches, in which:
75 unique CDR3
7 unique J

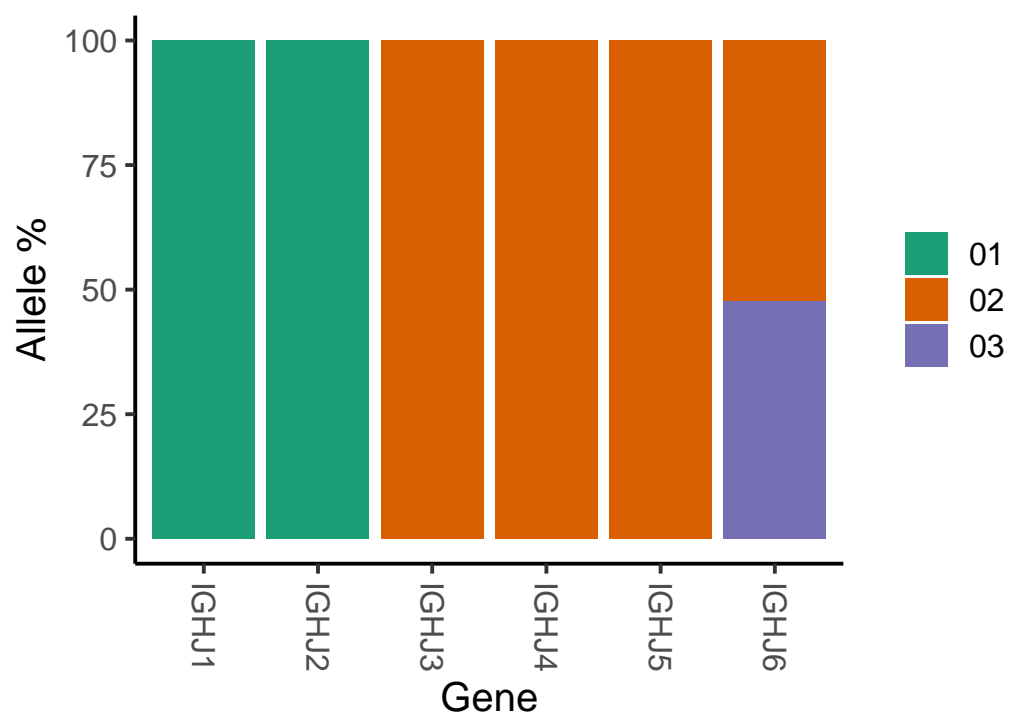


IGHV5–51*01

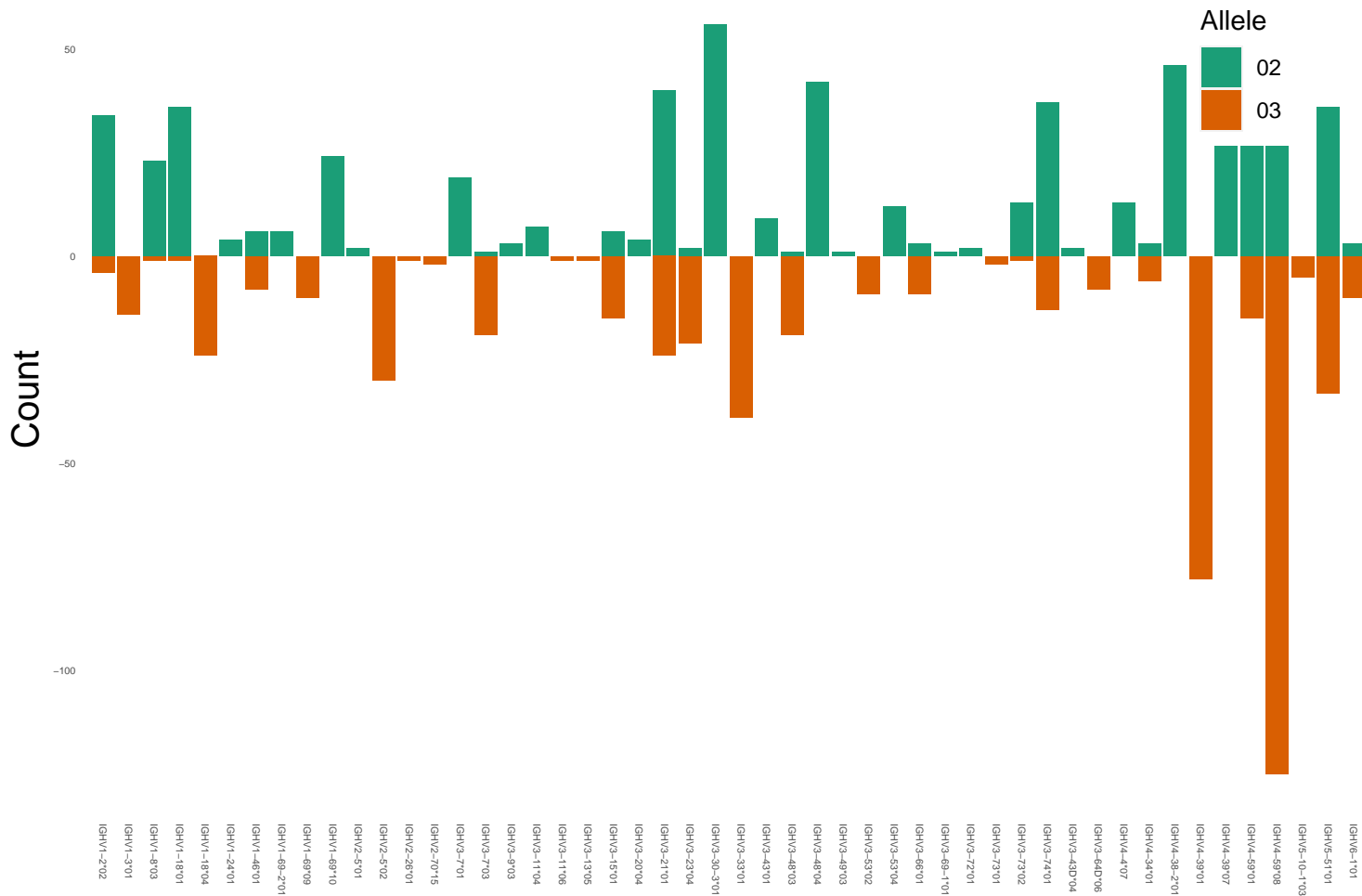
1304 sequences assigned
227 (17.4%) exact matches, in which:
166 unique CDR3
7 unique J



Allele Usage



Sequence Count by IGHJ6 allele usage



Warning – no inferred sequences found.

Warning – no inferred sequences found.

Warning – no inferred sequences found.

Warning – no inferred sequences found.

Warning – no inferred sequences found.