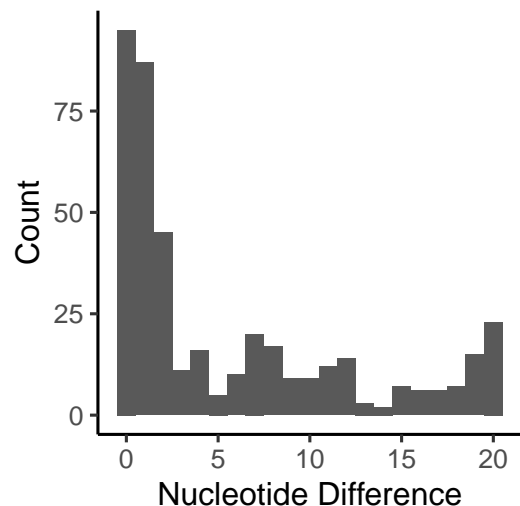


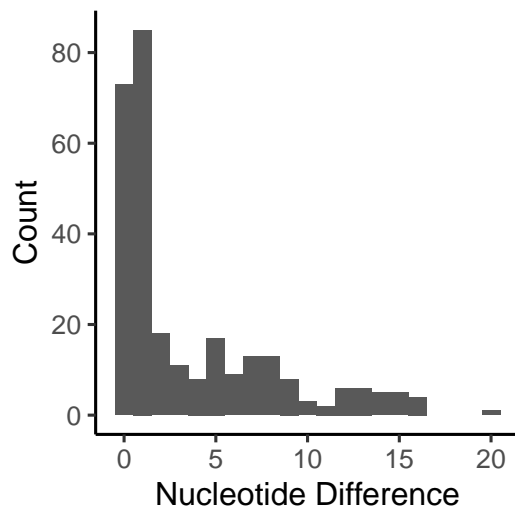
IGHV1-2*02

466 sequences assigned
95 (20.4%) exact matches, in which:
81 unique CDR3
5 unique J



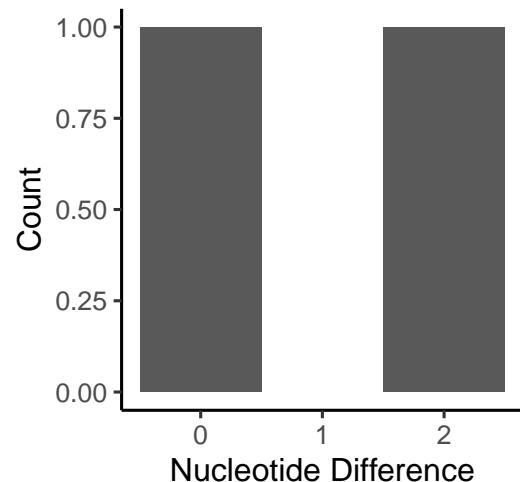
IGHV1-18*01

295 sequences assigned
73 (24.7%) exact matches, in which:
64 unique CDR3
6 unique J



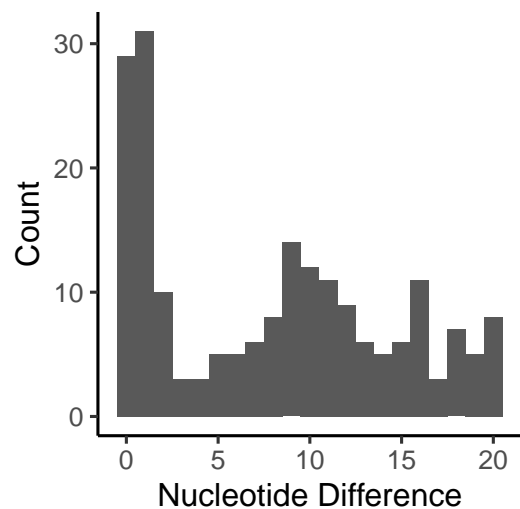
IGHV1-45*02

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



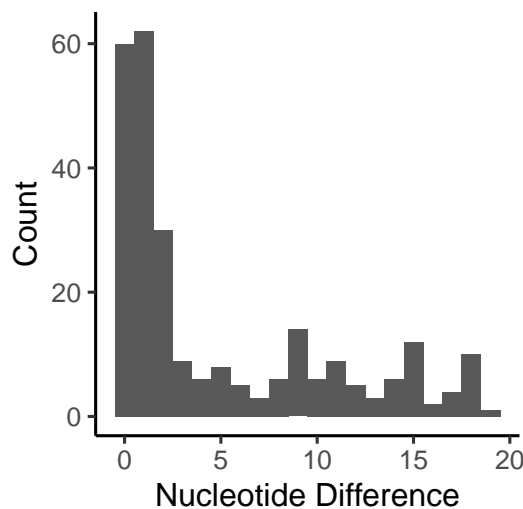
IGHV1-3*01

275 sequences assigned
29 (10.5%) exact matches, in which:
19 unique CDR3
4 unique J



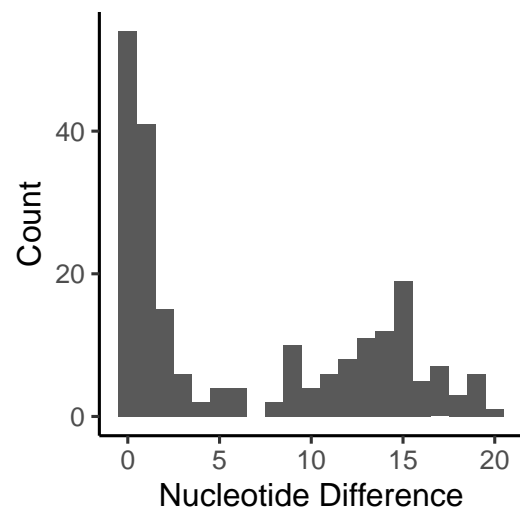
IGHV1-18*04

335 sequences assigned
60 (17.9%) exact matches, in which:
42 unique CDR3
6 unique J



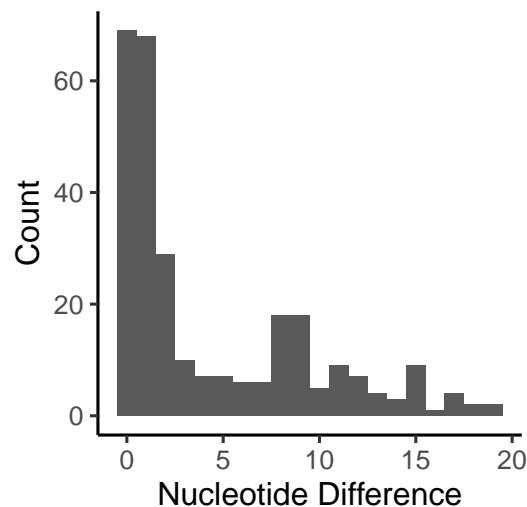
IGHV1-46*01

240 sequences assigned
54 (22.5%) exact matches, in which:
47 unique CDR3
6 unique J



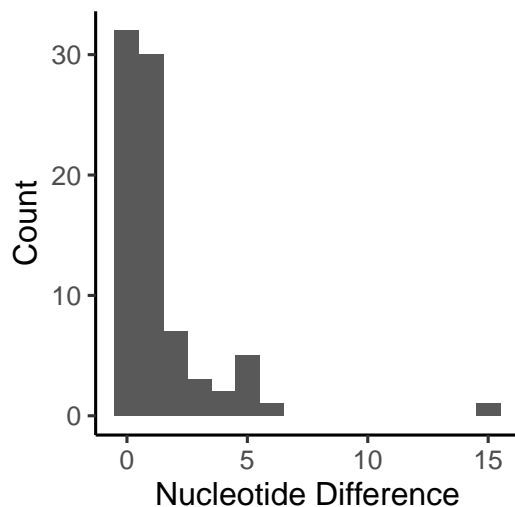
IGHV1-8*03

286 sequences assigned
69 (24.1%) exact matches, in which:
55 unique CDR3
6 unique J



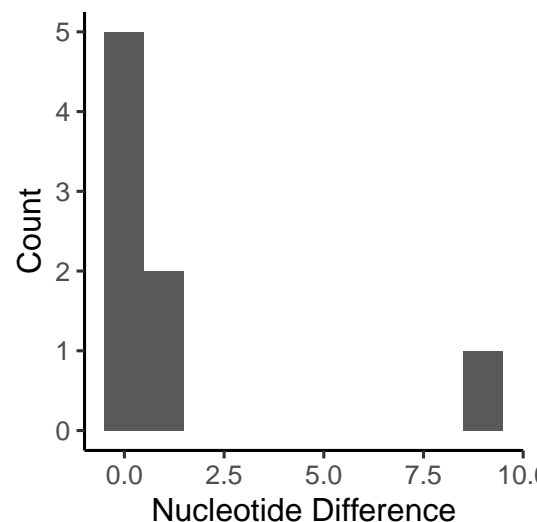
IGHV1-24*01

81 sequences assigned
32 (39.5%) exact matches, in which:
30 unique CDR3
4 unique J



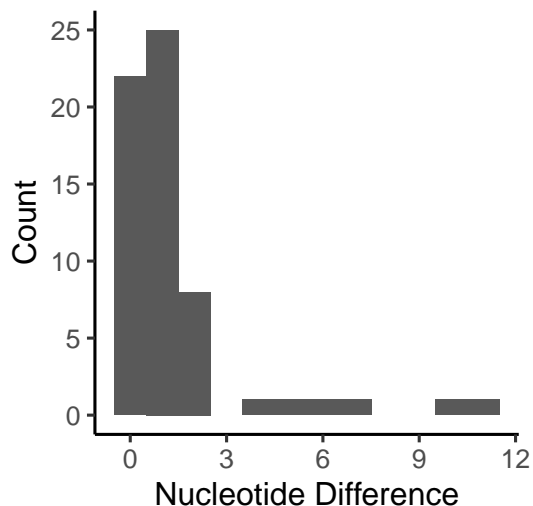
IGHV1-58*02

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



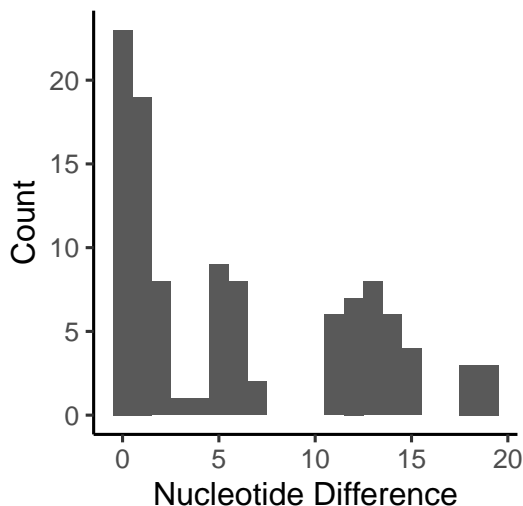
IGHV1-69-2*01

61 sequences assigned
22 (36.1%) exact matches, in which:
20 unique CDR3
5 unique J



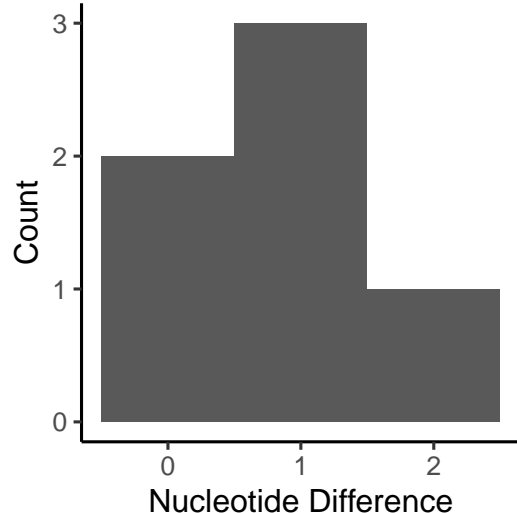
IGHV2-5*01

108 sequences assigned
23 (21.3%) exact matches, in which:
21 unique CDR3
5 unique J



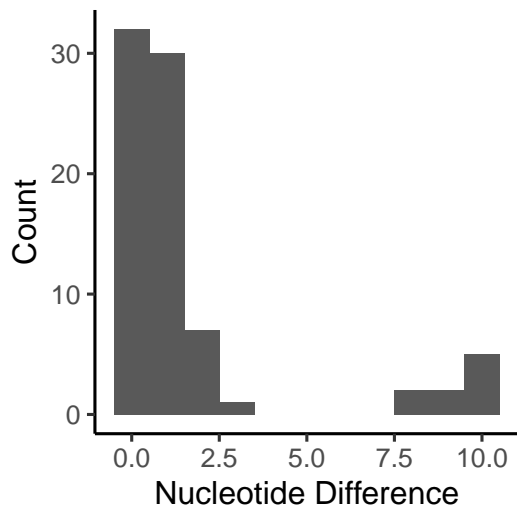
IGHV2-26*04

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



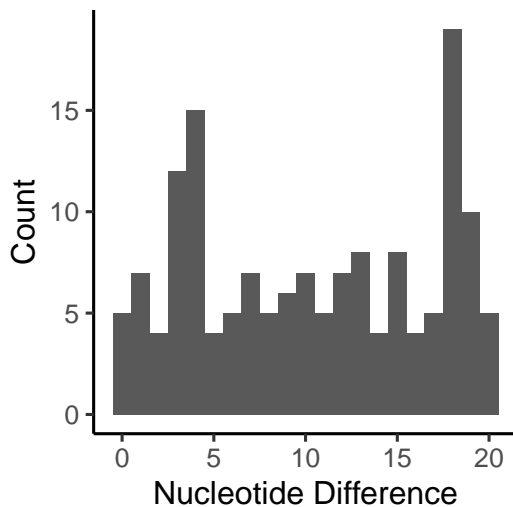
IGHV1-69*09

85 sequences assigned
32 (37.6%) exact matches, in which:
32 unique CDR3
4 unique J



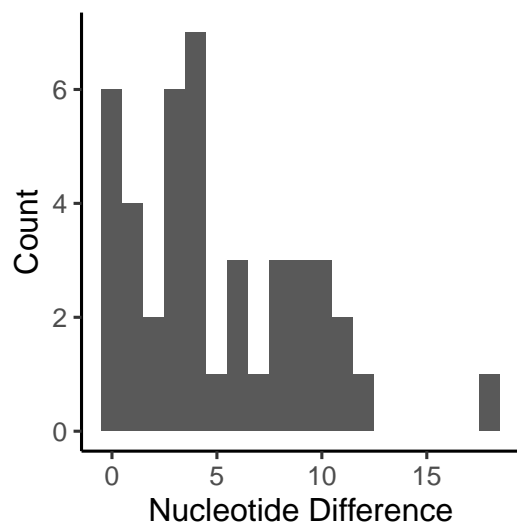
IGHV2-5*02

223 sequences assigned
5 (2.2%) exact matches, in which:
5 unique CDR3
3 unique J



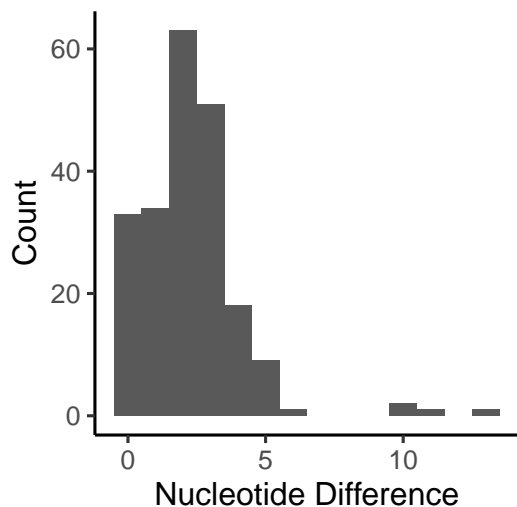
IGHV2-70*15

43 sequences assigned
6 (14%) exact matches, in which:
6 unique CDR3
2 unique J



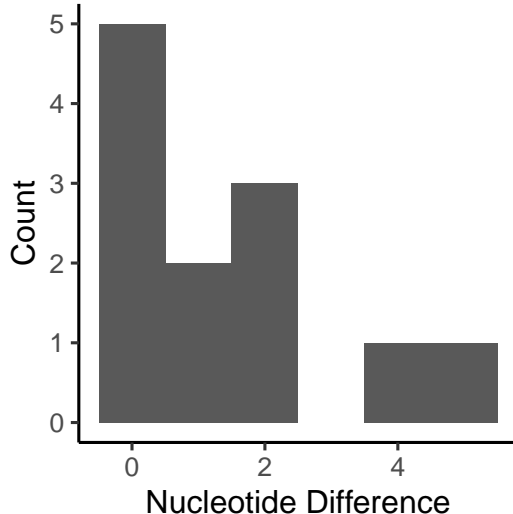
IGHV1-69*10

213 sequences assigned
33 (15.5%) exact matches, in which:
25 unique CDR3
5 unique J



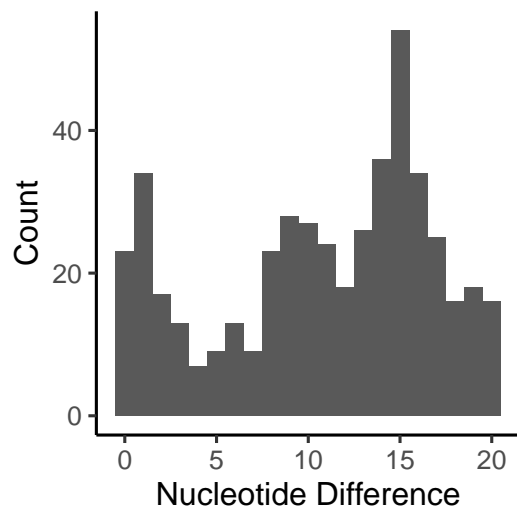
IGHV2-26*01

12 sequences assigned
5 (41.7%) exact matches, in which:
5 unique CDR3
2 unique J



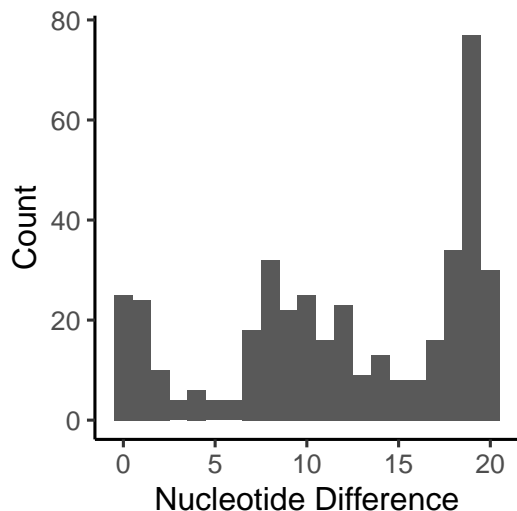
IGHV3-7*01

506 sequences assigned
23 (4.5%) exact matches, in which:
19 unique CDR3
4 unique J



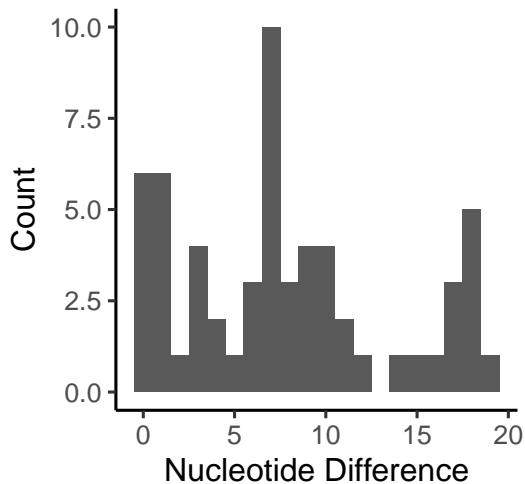
IGHV3-7*03

494 sequences assigned
25 (5.1%) exact matches, in which:
17 unique CDR3
5 unique J



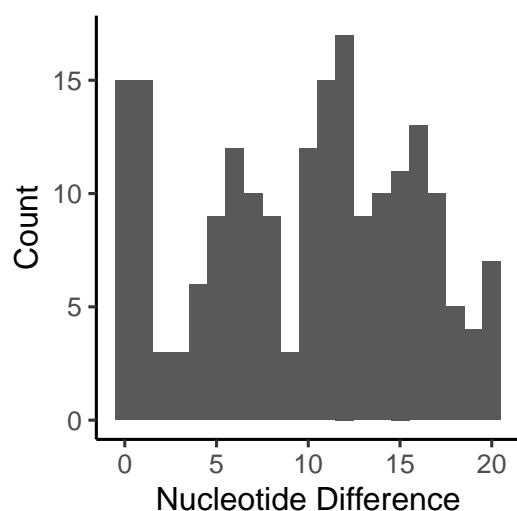
IGHV3-11*06

71 sequences assigned
6 (8.5%) exact matches, in which:
6 unique CDR3
1 unique J



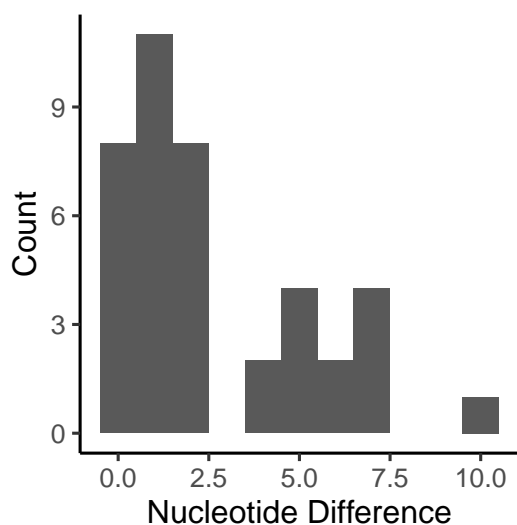
IGHV3-15*01

240 sequences assigned
15 (6.2%) exact matches, in which:
14 unique CDR3
5 unique J



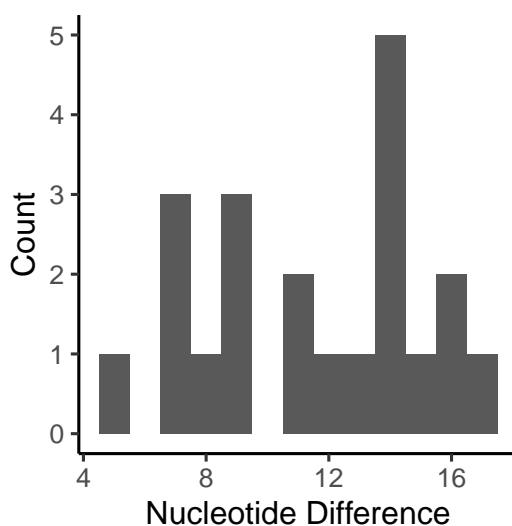
IGHV3-9*03

41 sequences assigned
8 (19.5%) exact matches, in which:
6 unique CDR3
4 unique J



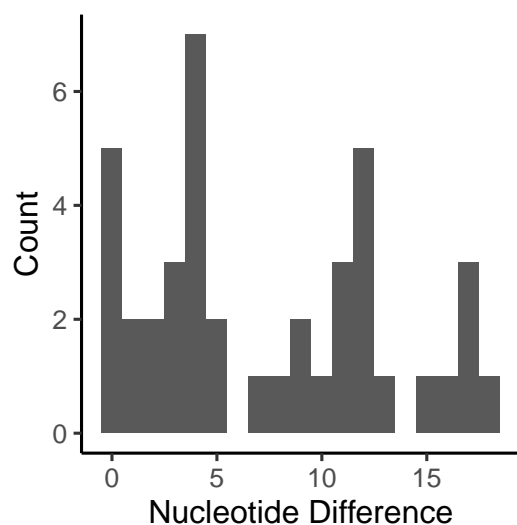
IGHV3-13*01

21 sequences assigned
No exact matches.



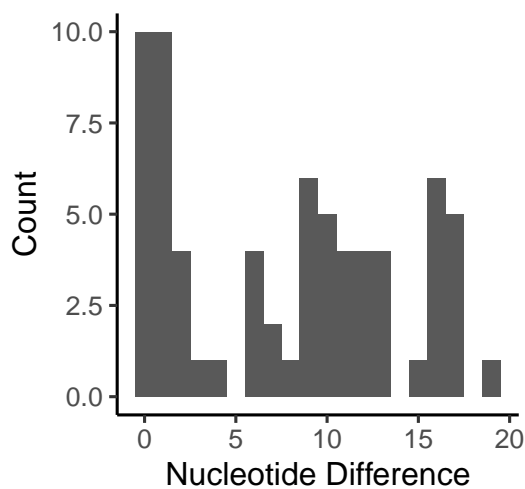
IGHV3-20*04

44 sequences assigned
5 (11.4%) exact matches, in which:
5 unique CDR3
2 unique J



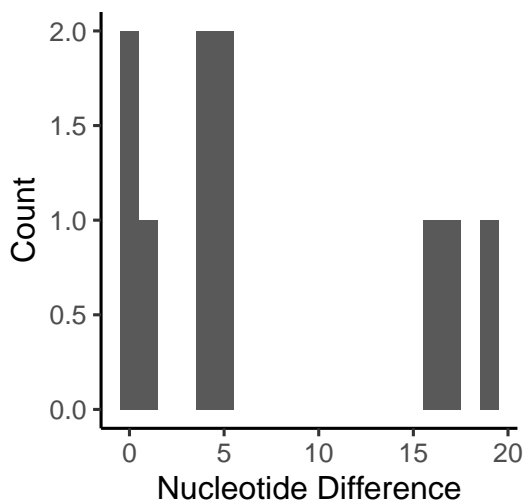
IGHV3-11*04

69 sequences assigned
10 (14.5%) exact matches, in which:
10 unique CDR3
3 unique J



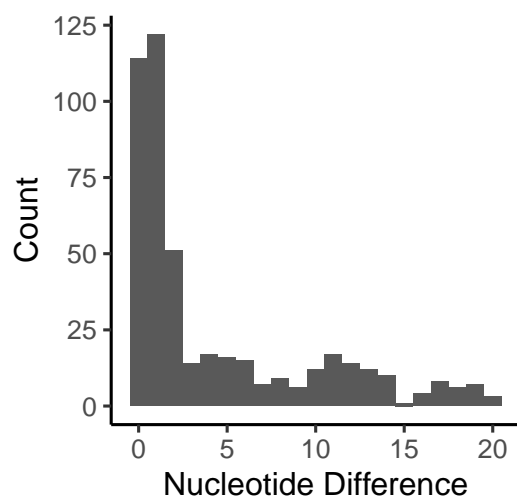
IGHV3-13*05

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



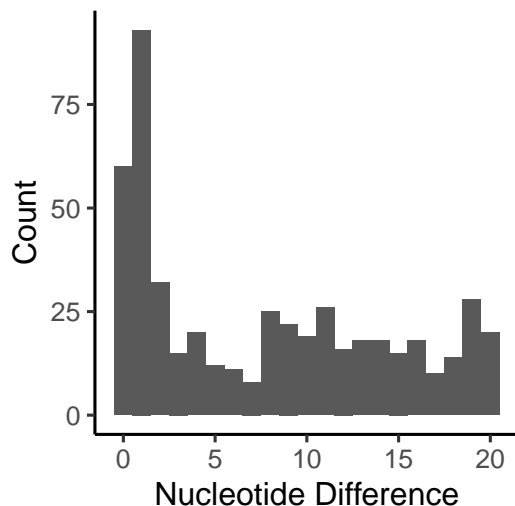
IGHV3-21*01

492 sequences assigned
114 (23.2%) exact matches, in which:
79 unique CDR3
6 unique J



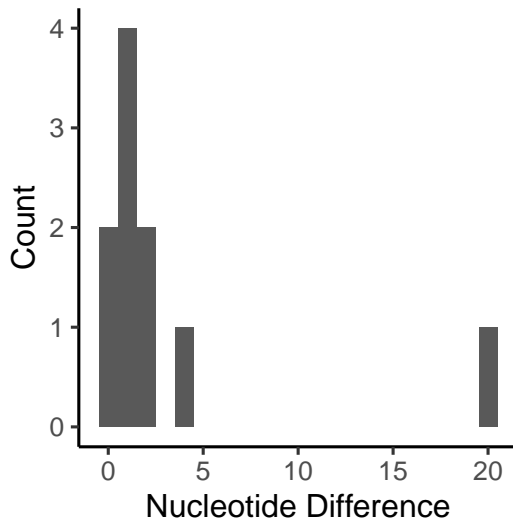
IGHV3-23*04

601 sequences assigned
60 (10%) exact matches, in which:
53 unique CDR3
4 unique J



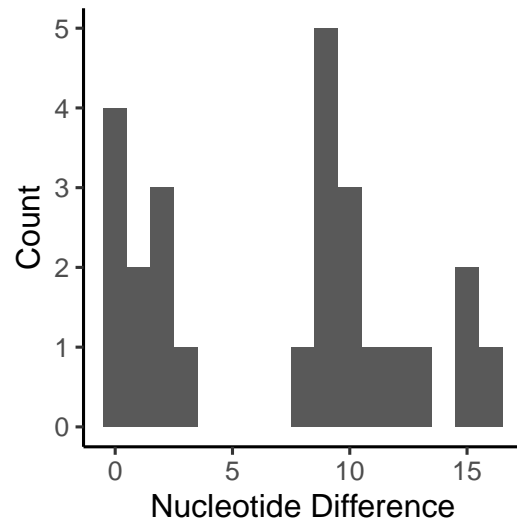
IGHV3-43*01

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



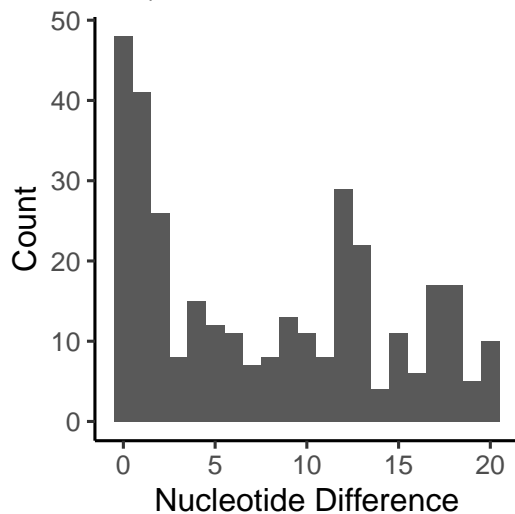
IGHV3-49*03

33 sequences assigned
4 (12.1%) exact matches, in which:
4 unique CDR3
2 unique J



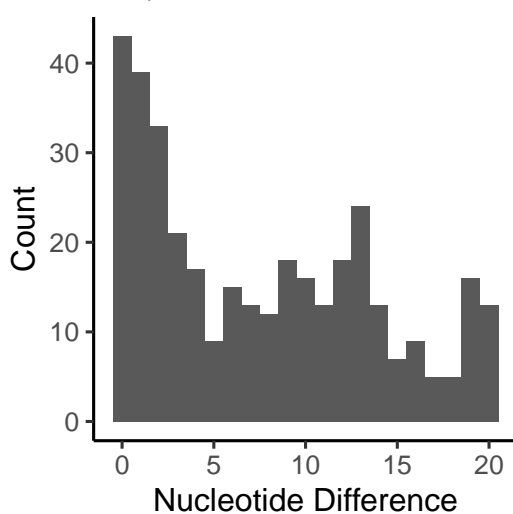
IGHV3-30-3*01

376 sequences assigned
48 (12.8%) exact matches, in which:
39 unique CDR3
4 unique J



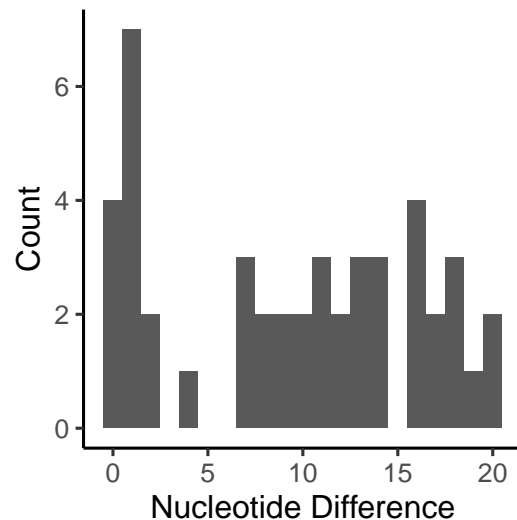
IGHV3-48*03

421 sequences assigned
43 (10.2%) exact matches, in which:
35 unique CDR3
5 unique J



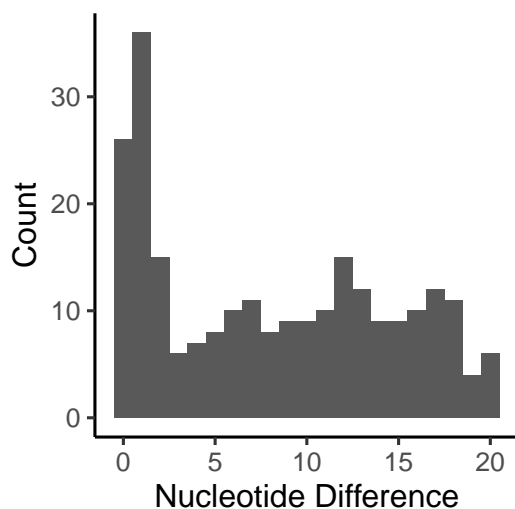
IGHV3-49*04

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



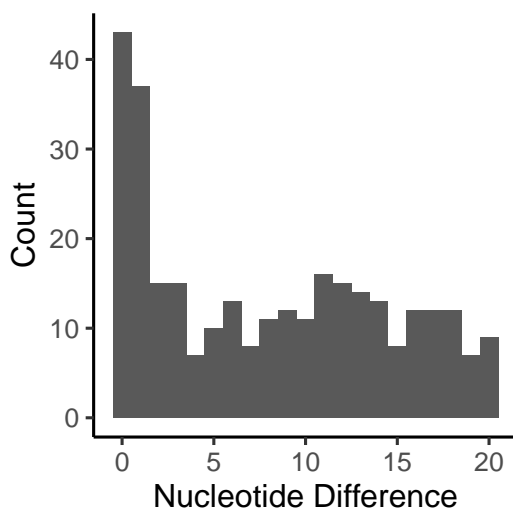
IGHV3-33*08

290 sequences assigned
26 (9%) exact matches, in which:
21 unique CDR3
5 unique J



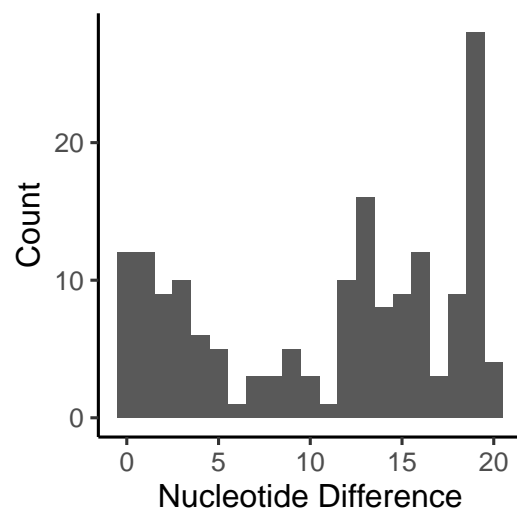
IGHV3-48*04

359 sequences assigned
43 (12%) exact matches, in which:
35 unique CDR3
6 unique J



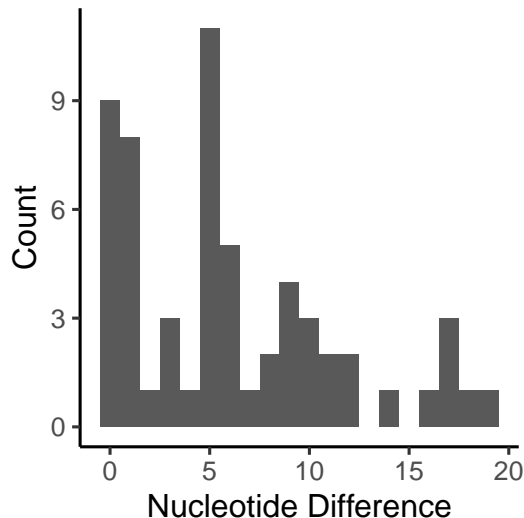
IGHV3-53*02

178 sequences assigned
12 (6.7%) exact matches, in which:
12 unique CDR3
3 unique J



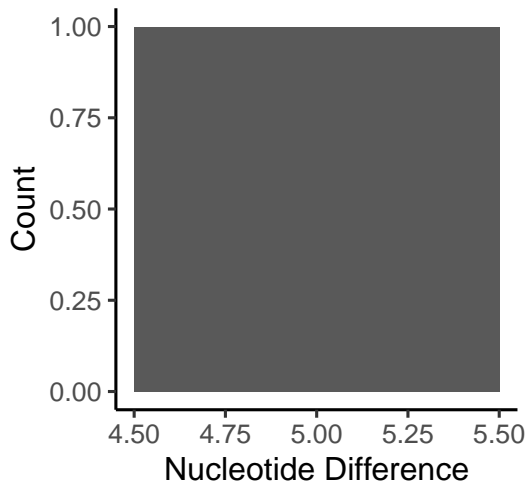
IGHV3-53*04

61 sequences assigned
9 (14.8%) exact matches, in which:
9 unique CDR3
5 unique J



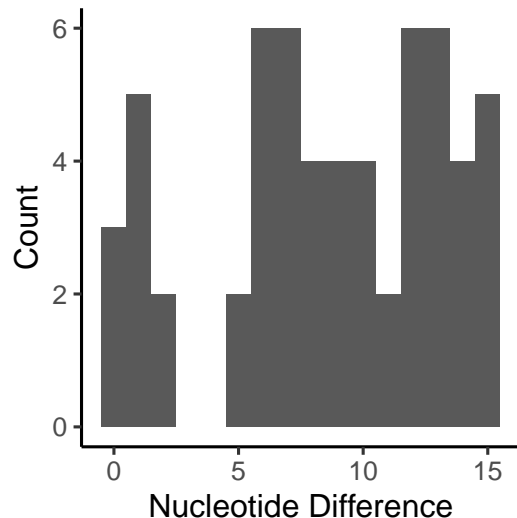
IGHV3-69-1*01

5 sequences assigned
No exact matches.



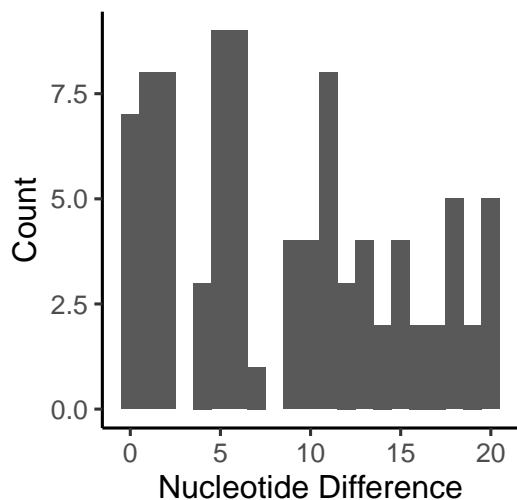
IGHV3-73*02

68 sequences assigned
3 (4.4%) exact matches, in which:
3 unique CDR3
2 unique J



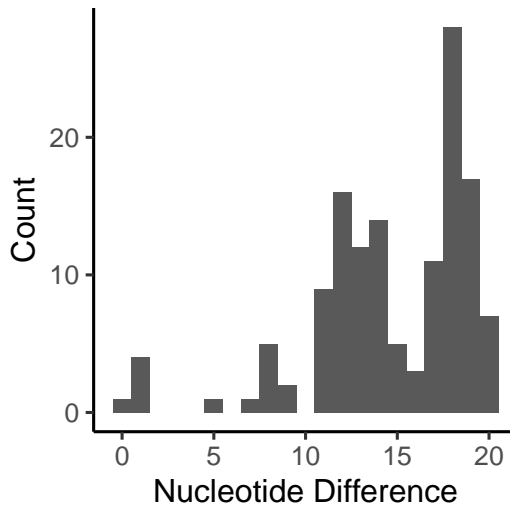
IGHV3-64*01

101 sequences assigned
7 (6.9%) exact matches, in which:
5 unique CDR3
1 unique J



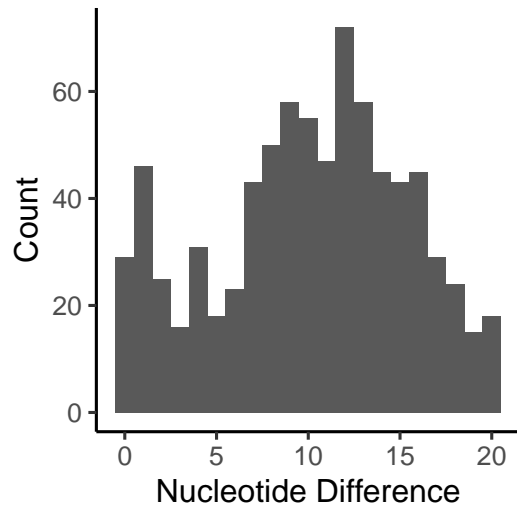
IGHV3-72*01

166 sequences assigned
1 (0.6%) exact matches, in which:
1 unique CDR3
1 unique J



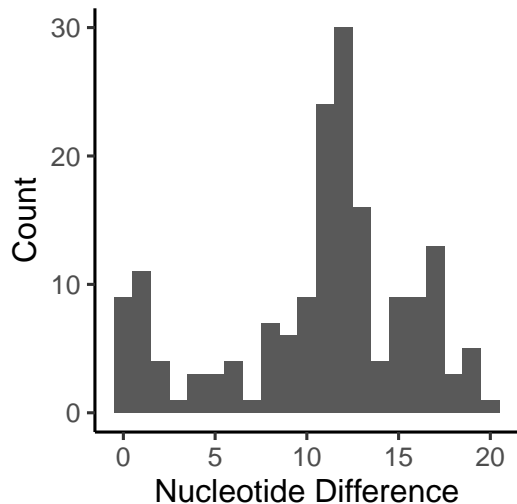
IGHV3-74*01

941 sequences assigned
29 (3.1%) exact matches, in which:
23 unique CDR3
3 unique J



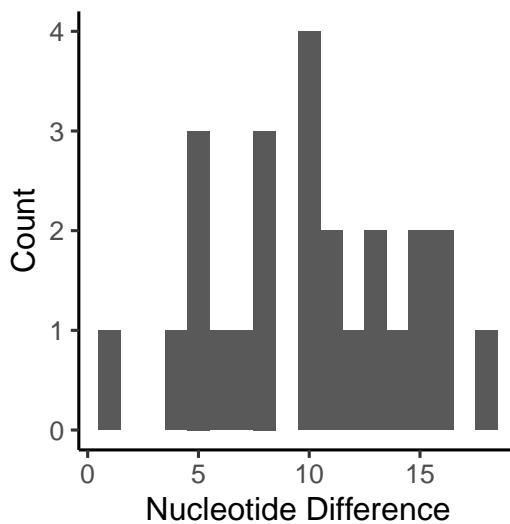
IGHV3-66*01

203 sequences assigned
9 (4.4%) exact matches, in which:
8 unique CDR3
3 unique J



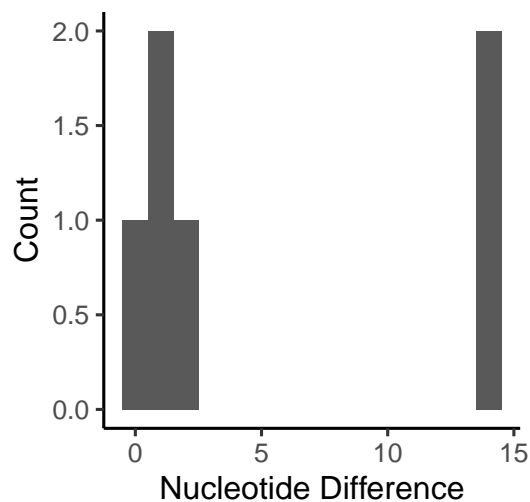
IGHV3-73*01

27 sequences assigned
No exact matches.



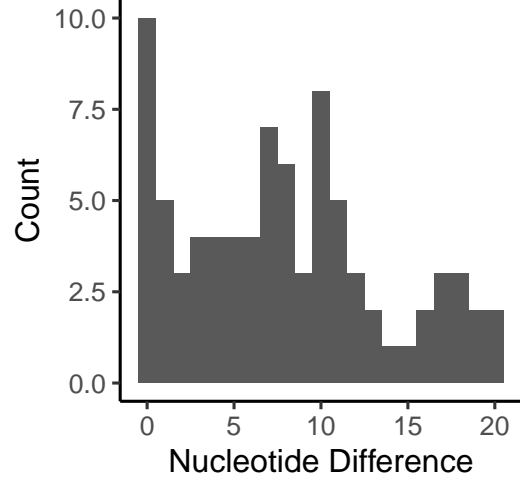
IGHV3-43D*04

6 sequences assigned
1 (16.7%) exact matches, in which:
1 unique CDR3
1 unique J



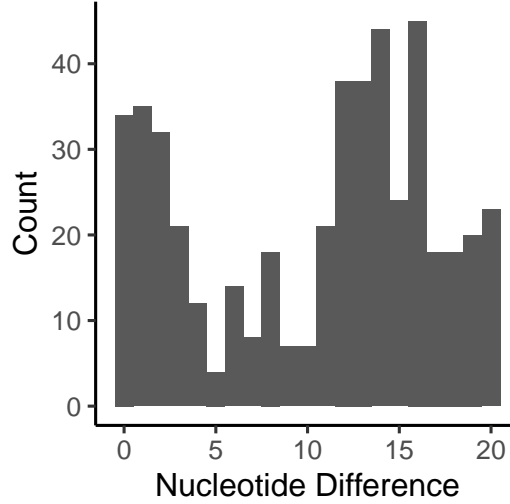
IGHV3-64D*06

89 sequences assigned
10 (11.2%) exact matches, in which:
9 unique CDR3
2 unique J



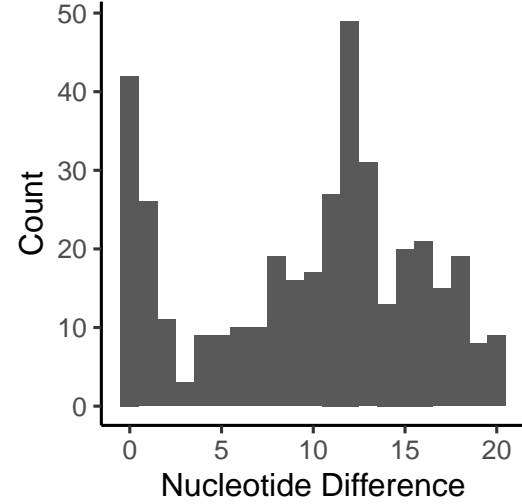
IGHV4-4*07

659 sequences assigned
34 (5.2%) exact matches, in which:
29 unique CDR3
5 unique J



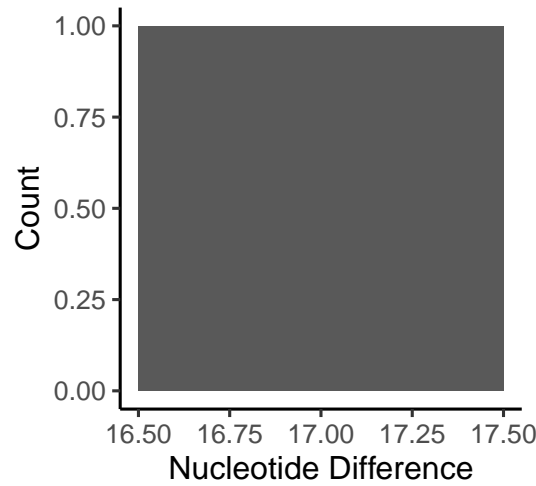
IGHV4-34*01

404 sequences assigned
42 (10.4%) exact matches, in which:
33 unique CDR3
6 unique J



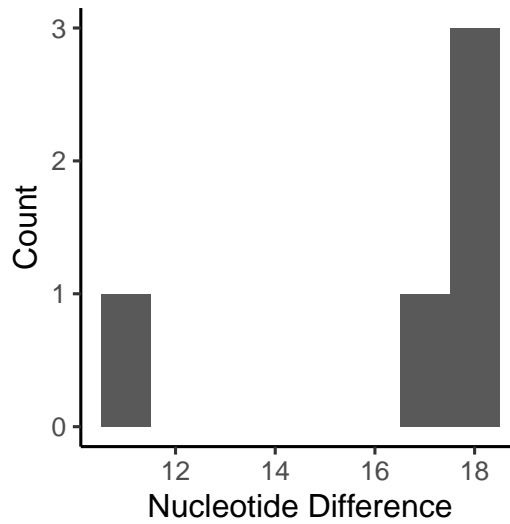
IGHV3-NL1*01

1 sequences assigned
No exact matches.



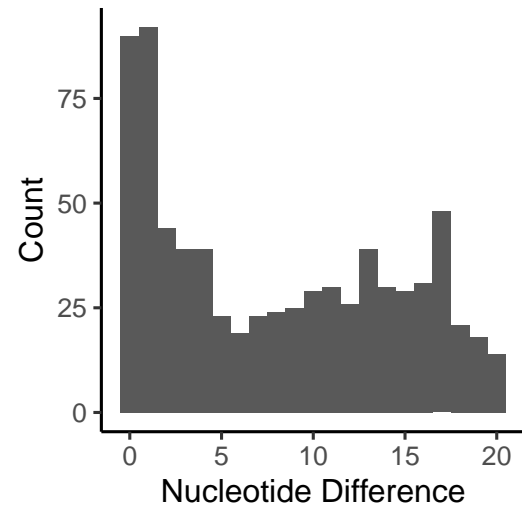
IGHV4-28*07

5 sequences assigned
No exact matches.



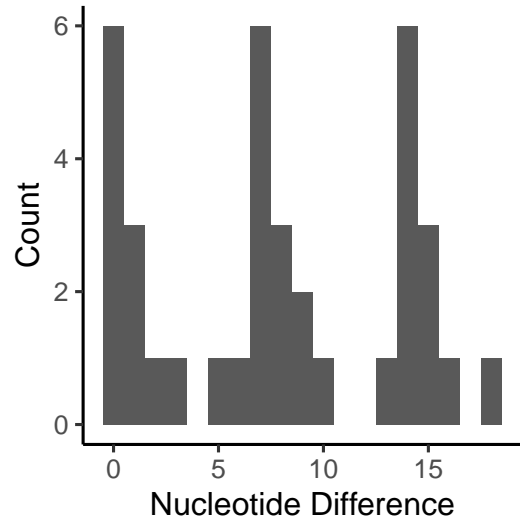
IGHV4-38-2*01

811 sequences assigned
90 (11.1%) exact matches, in which:
68 unique CDR3
5 unique J



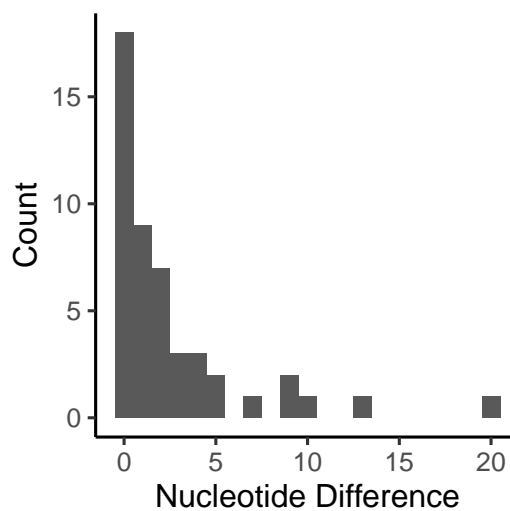
IGHV4-4*02

48 sequences assigned
6 (12.5%) exact matches, in which:
5 unique CDR3
4 unique J



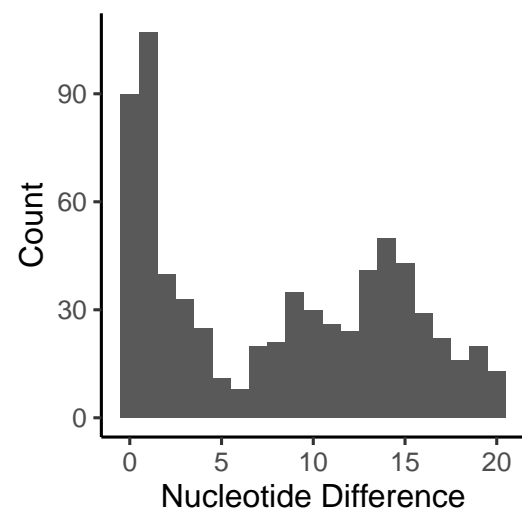
IGHV4-30-4*08

48 sequences assigned
18 (37.5%) exact matches, in which:
17 unique CDR3
3 unique J



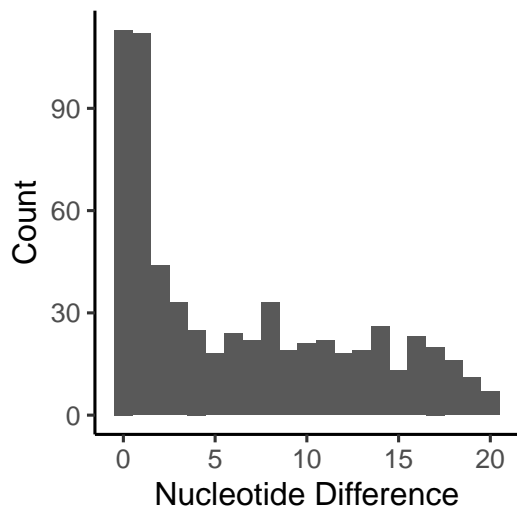
IGHV4-39*01

776 sequences assigned
90 (11.6%) exact matches, in which:
72 unique CDR3
5 unique J



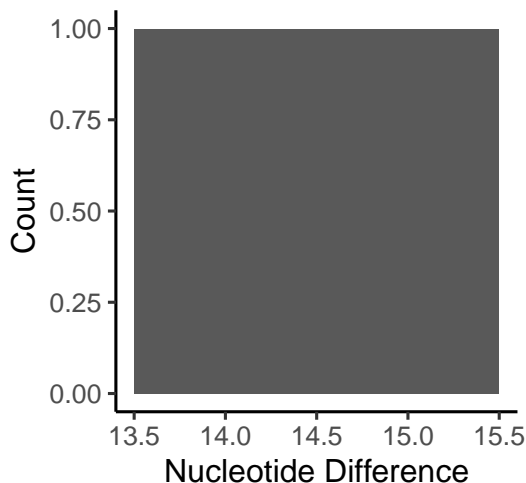
IGHV4-39*07

723 sequences assigned
113 (15.6%) exact matches, in which:
96 unique CDR3
6 unique J



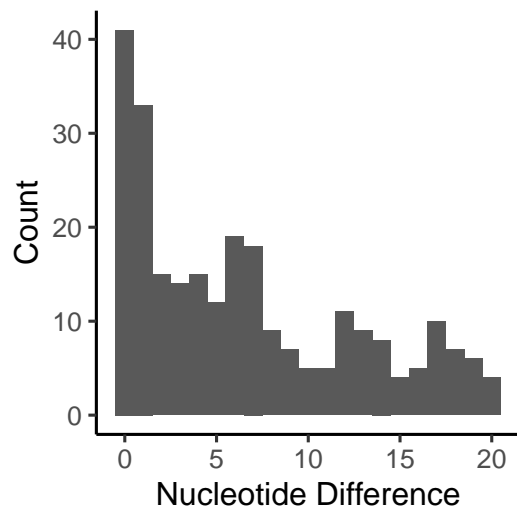
IGHV4-61*01

2 sequences assigned
No exact matches.



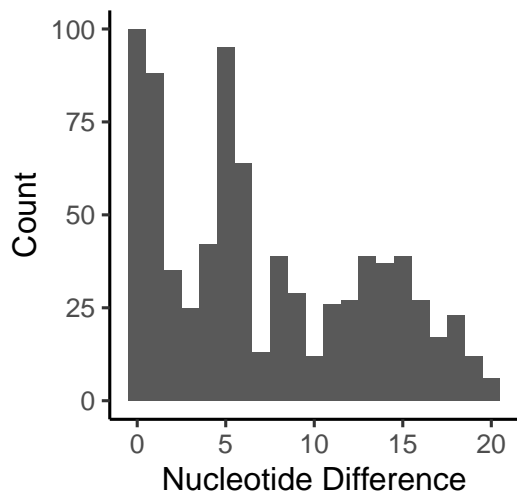
IGHV6-1*01

283 sequences assigned
41 (14.5%) exact matches, in which:
35 unique CDR3
6 unique J



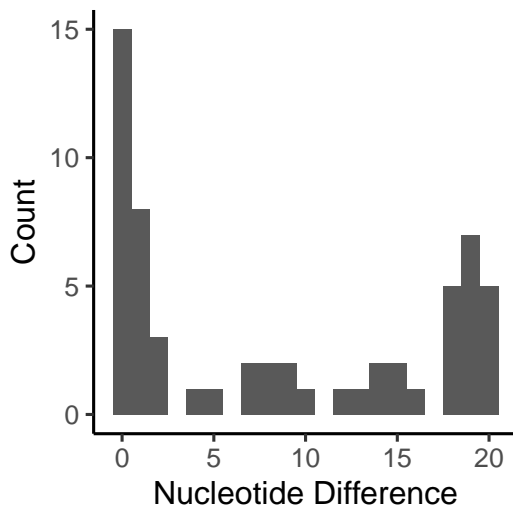
IGHV4-59*01

864 sequences assigned
100 (11.6%) exact matches, in which:
75 unique CDR3
7 unique J



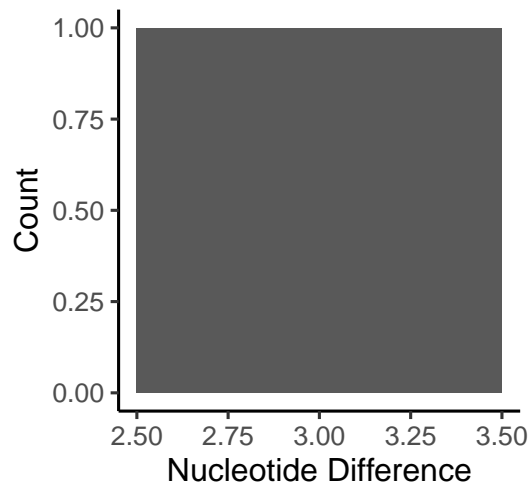
IGHV5-10-1*03

60 sequences assigned
15 (25%) exact matches, in which:
13 unique CDR3
5 unique J



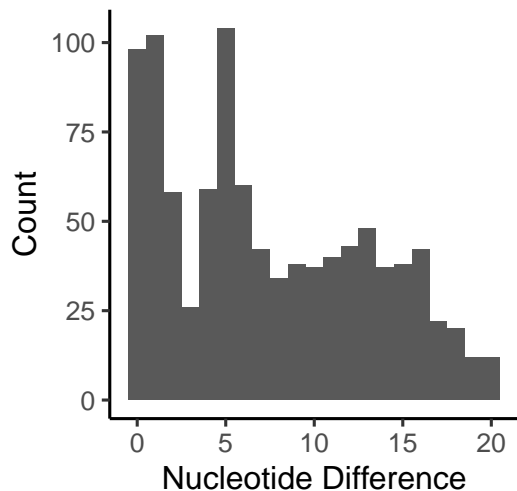
IGHV7-4-1*01

1 sequences assigned
No exact matches.



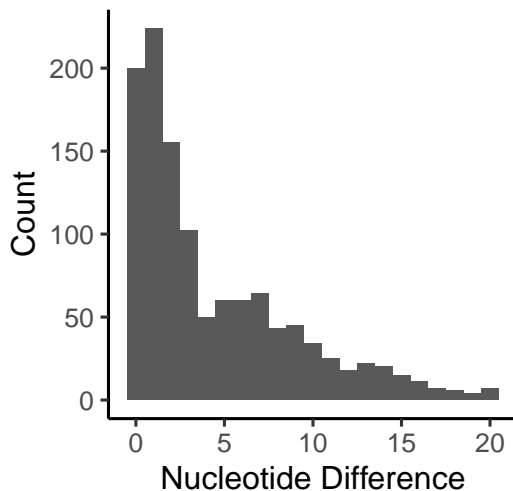
IGHV4-59*08

1072 sequences assigned
98 (9.1%) exact matches, in which:
71 unique CDR3
7 unique J

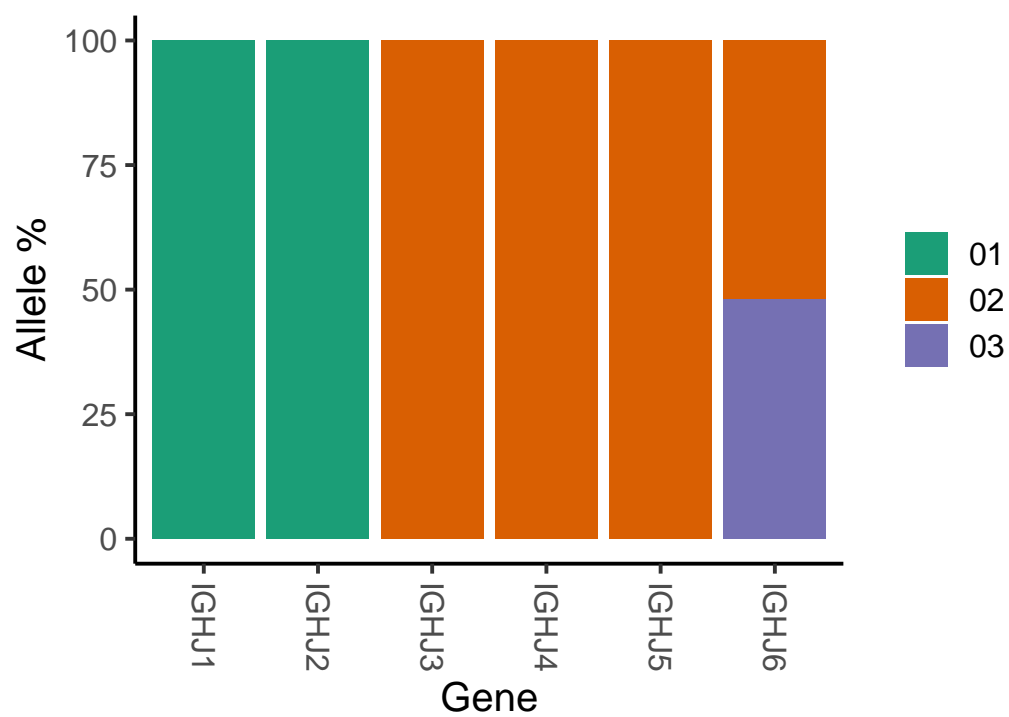


IGHV5-51*01

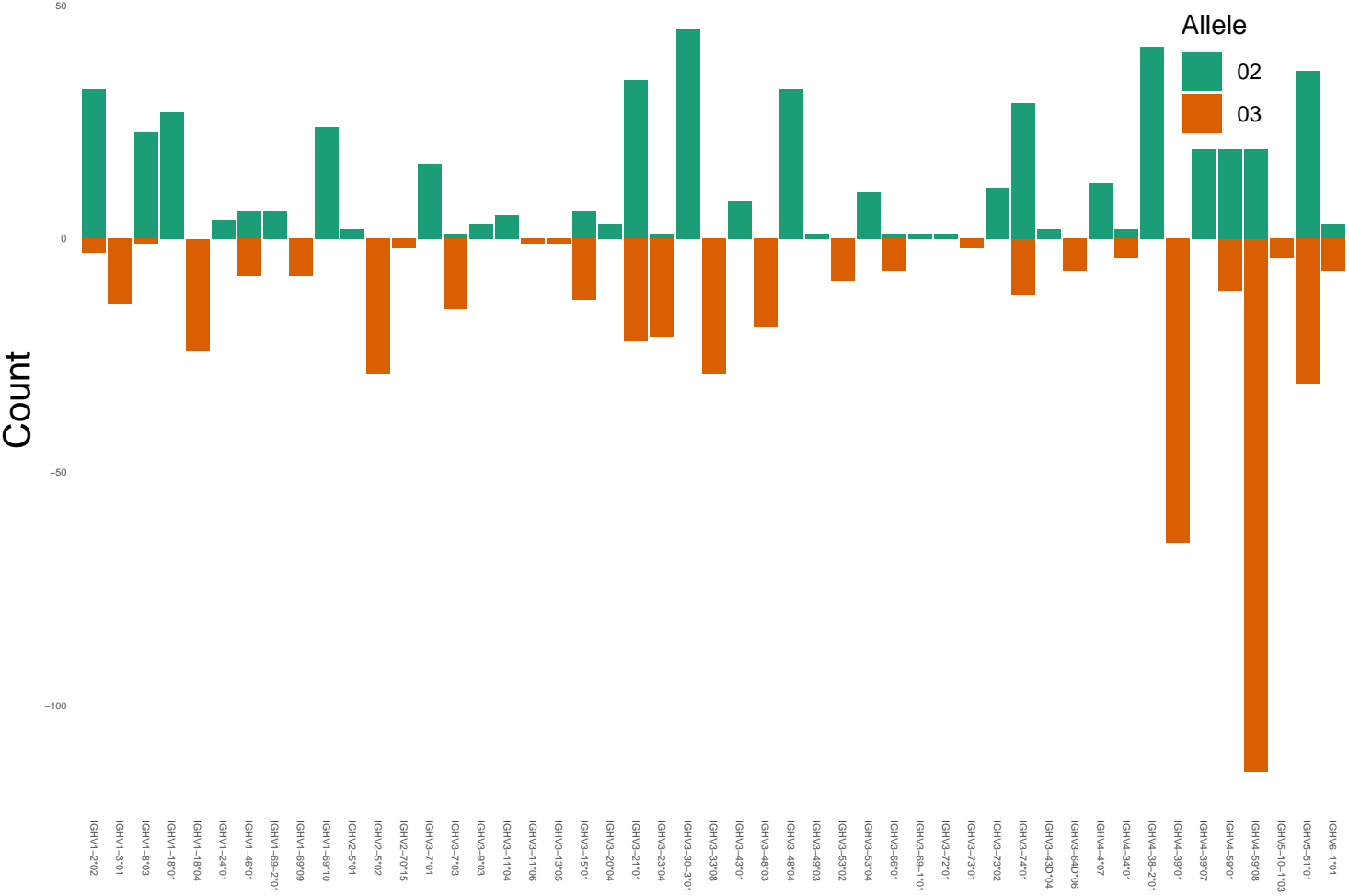
1202 sequences assigned
200 (16.6%) exact matches, in which:
153 unique CDR3
7 unique J



Allele Usage



Sequence Count by IGHJ6 allele usage



Warning – no inferred sequences found.