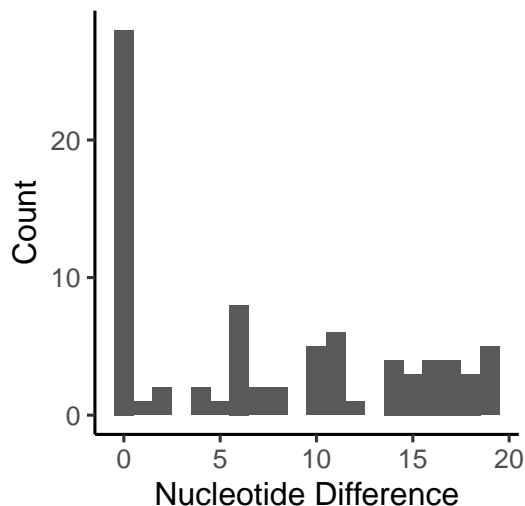


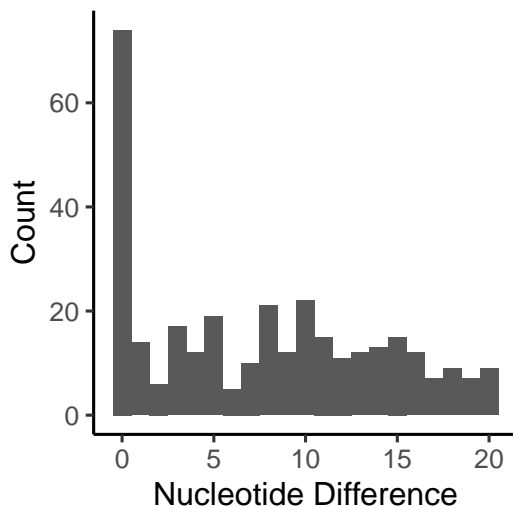
IGHV1-2*04

97 sequences assigned
28 (28.9%) exact matches, in which:
28 unique CDR3
6 unique J



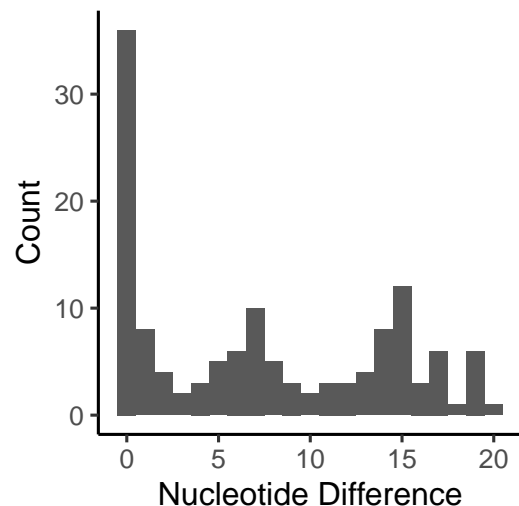
IGHV1-8*01

376 sequences assigned
74 (19.7%) exact matches, in which:
74 unique CDR3
7 unique J



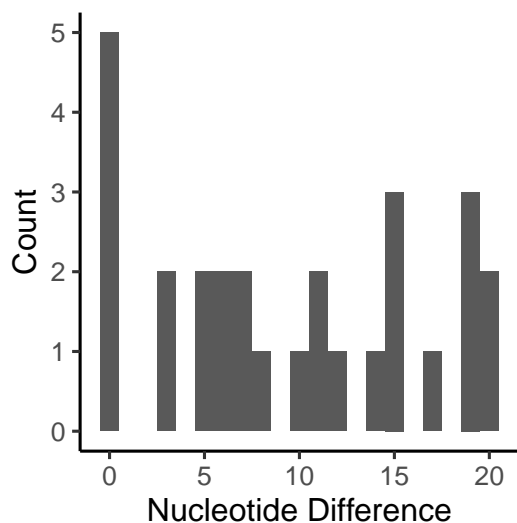
IGHV1-24*01

151 sequences assigned
36 (23.8%) exact matches, in which:
35 unique CDR3
5 unique J



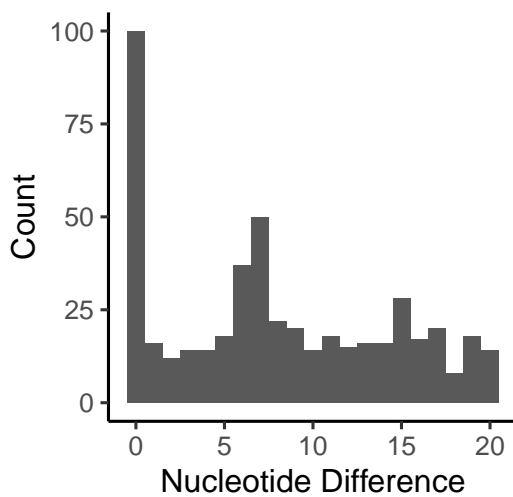
IGHV1-2*05

46 sequences assigned
5 (10.9%) exact matches, in which:
5 unique CDR3
3 unique J



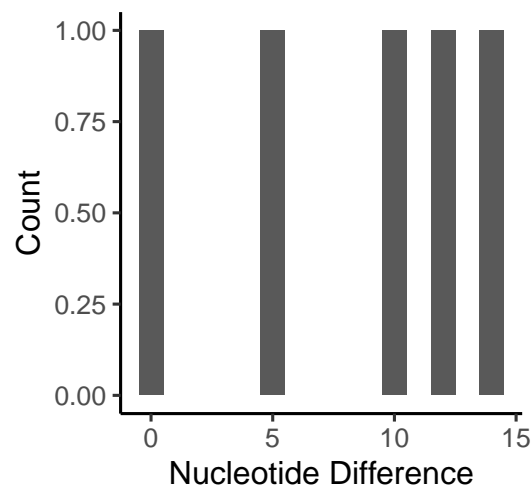
IGHV1-18*01

590 sequences assigned
100 (16.9%) exact matches, in which:
98 unique CDR3
6 unique J



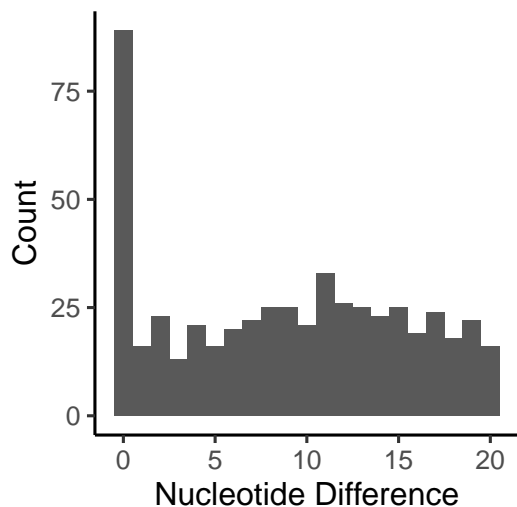
IGHV1-45*02

5 sequences assigned
1 (20%) exact matches, in which:
1 unique CDR3
1 unique J



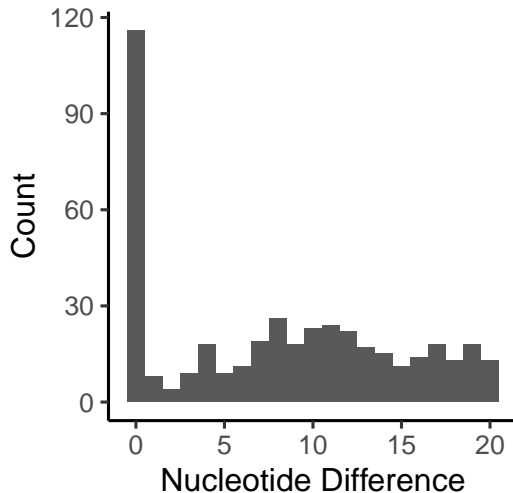
IGHV1-3*01_05

646 sequences assigned
89 (13.8%) exact matches, in which:
89 unique CDR3
6 unique J



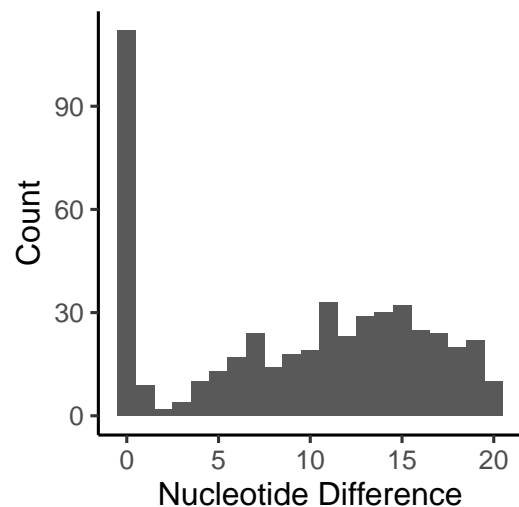
IGHV1-18*04

511 sequences assigned
116 (22.7%) exact matches, in which:
115 unique CDR3
6 unique J



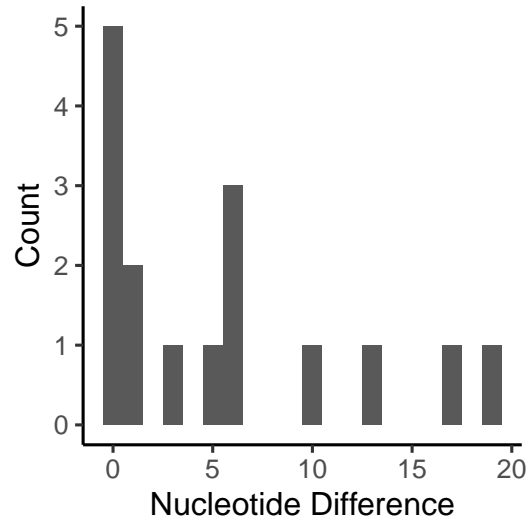
IGHV1-46*01

664 sequences assigned
112 (16.9%) exact matches, in which:
111 unique CDR3
6 unique J



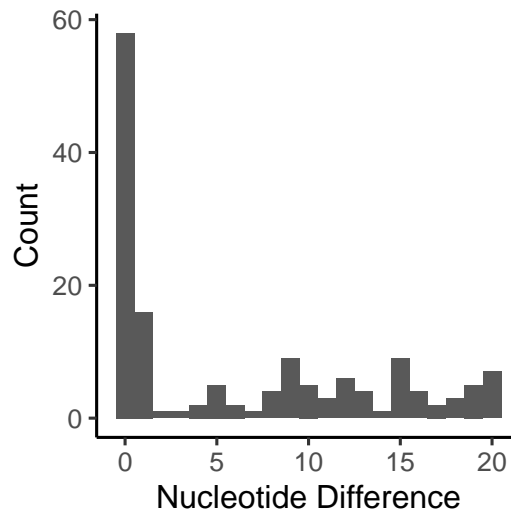
IGHV1-58*02

17 sequences assigned
5 (29.4%) exact matches, in which:
5 unique CDR3
3 unique J



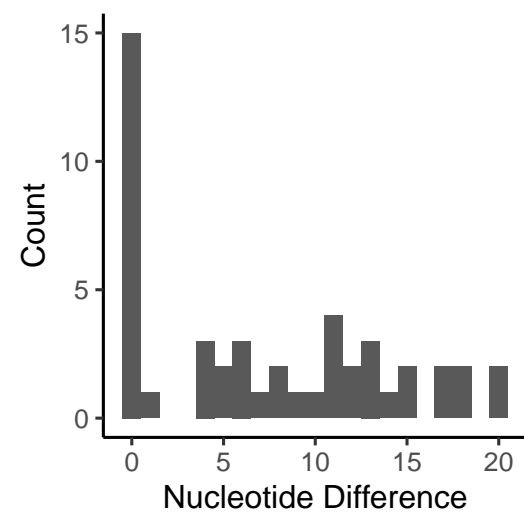
IGHV1-69*10

202 sequences assigned
58 (28.7%) exact matches, in which:
57 unique CDR3
5 unique J



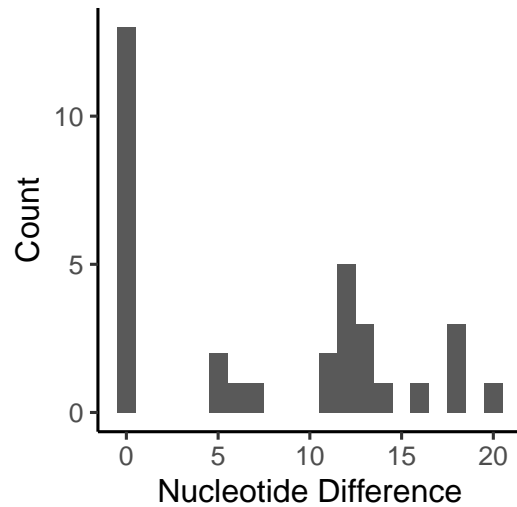
IGHV2-70*01

53 sequences assigned
15 (28.3%) exact matches, in which:
15 unique CDR3
4 unique J



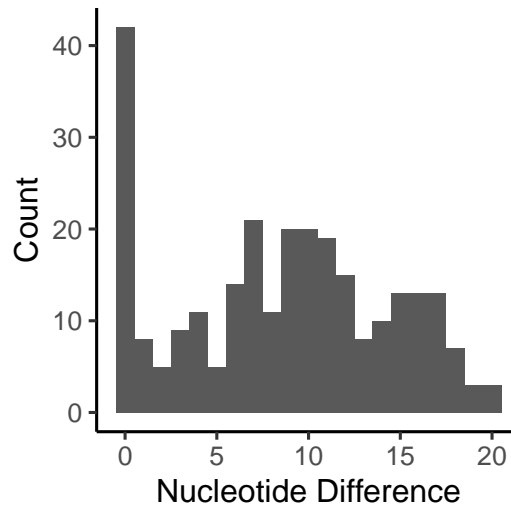
IGHV1-58*01_03

40 sequences assigned
13 (32.5%) exact matches, in which:
13 unique CDR3
4 unique J



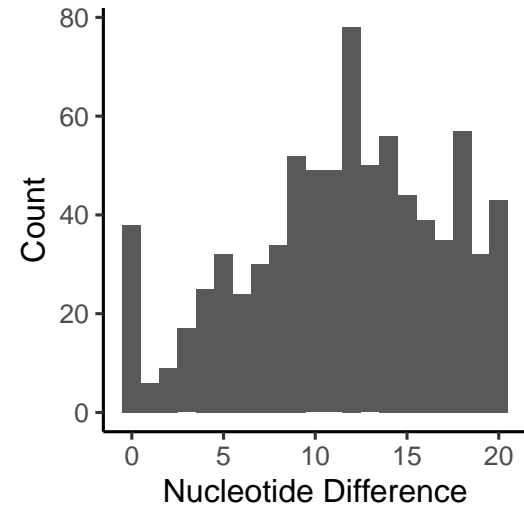
IGHV2-5*02

302 sequences assigned
42 (13.9%) exact matches, in which:
42 unique CDR3
5 unique J



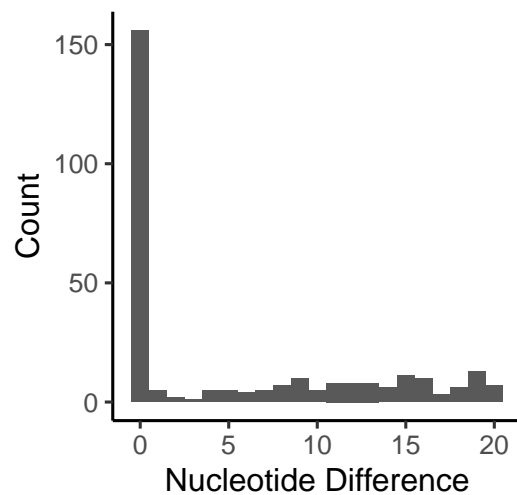
IGHV3-7*01

1069 sequences assigned
38 (3.6%) exact matches, in which:
38 unique CDR3
6 unique J



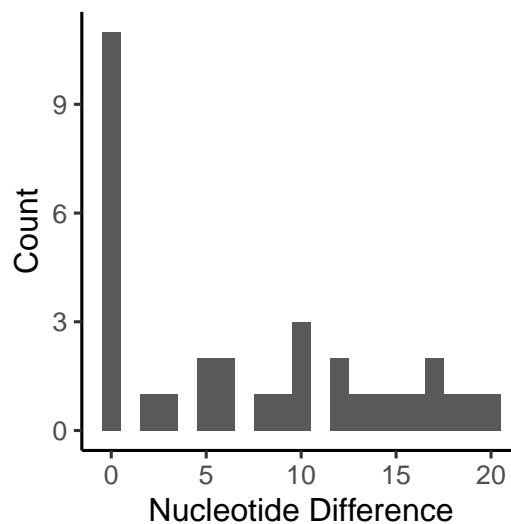
IGHV1-69*01_12_13

348 sequences assigned
156 (44.8%) exact matches, in which:
156 unique CDR3
6 unique J



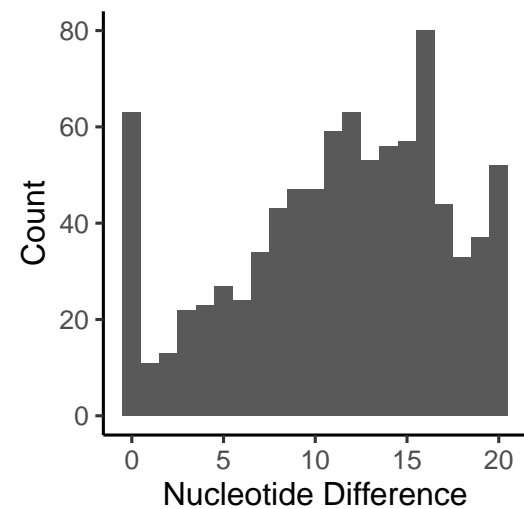
IGHV2-26*01

36 sequences assigned
11 (30.6%) exact matches, in which:
11 unique CDR3
5 unique J



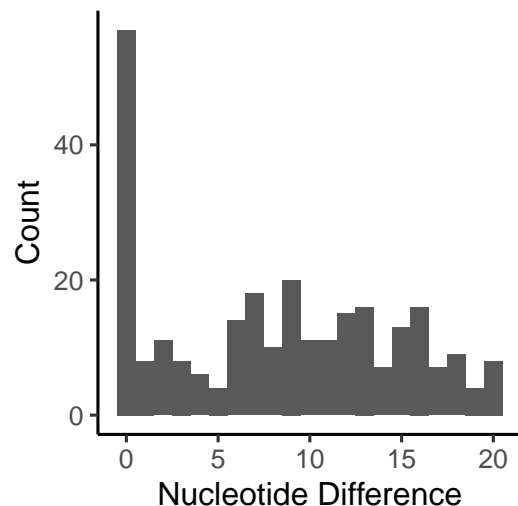
IGHV3-7*03

1110 sequences assigned
63 (5.7%) exact matches, in which:
62 unique CDR3
5 unique J



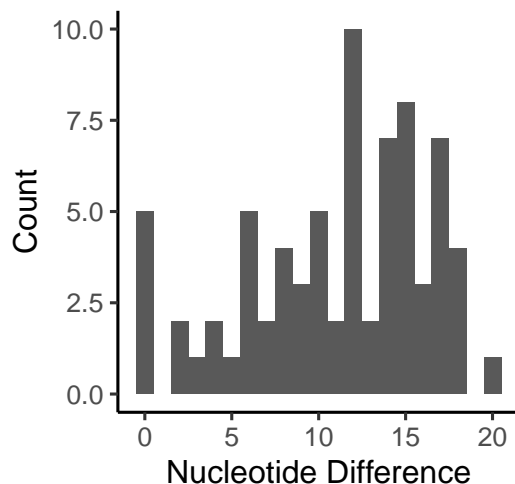
IGHV3-9*01

308 sequences assigned
57 (18.5%) exact matches, in which:
57 unique CDR3
5 unique J



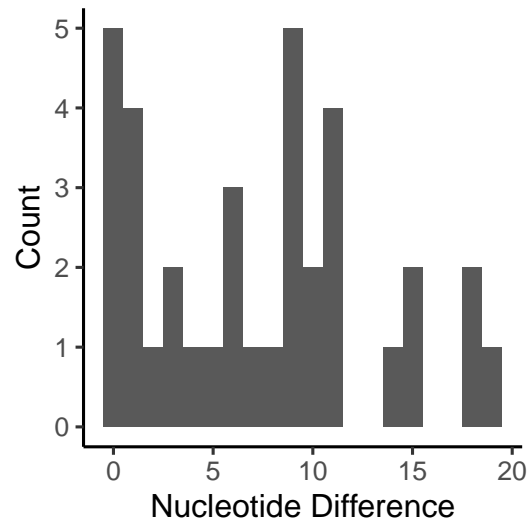
IGHV3-13*01

91 sequences assigned
5 (5.5%) exact matches, in which:
5 unique CDR3
2 unique J



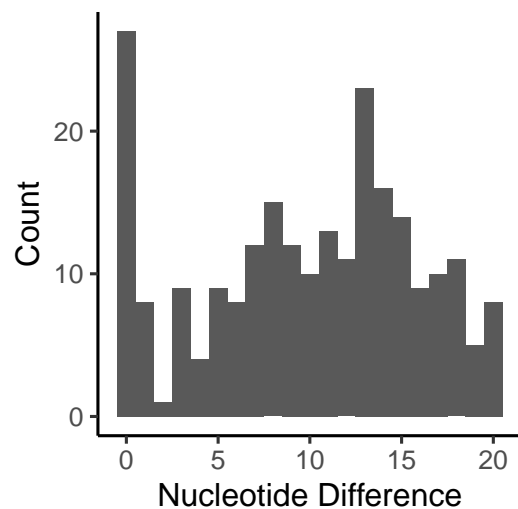
IGHV3-20*01_02

42 sequences assigned
5 (11.9%) exact matches, in which:
5 unique CDR3
2 unique J



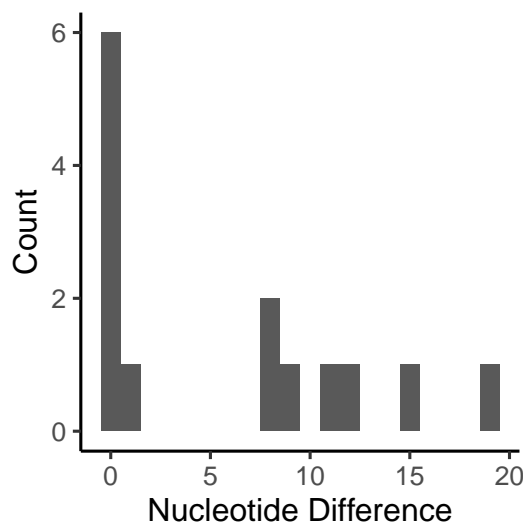
IGHV3-11*01

318 sequences assigned
27 (8.5%) exact matches, in which:
27 unique CDR3
3 unique J



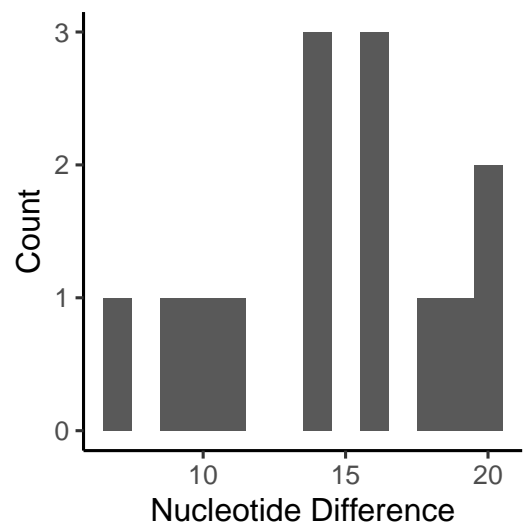
IGHV3-13*05

14 sequences assigned
6 (42.9%) exact matches, in which:
6 unique CDR3
3 unique J



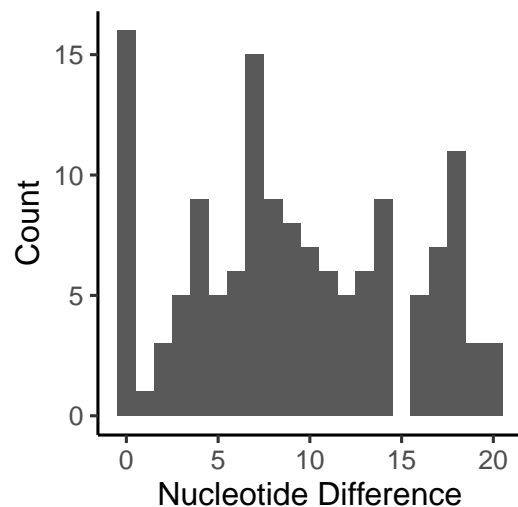
IGHV3-20*03_04

22 sequences assigned
No exact matches.



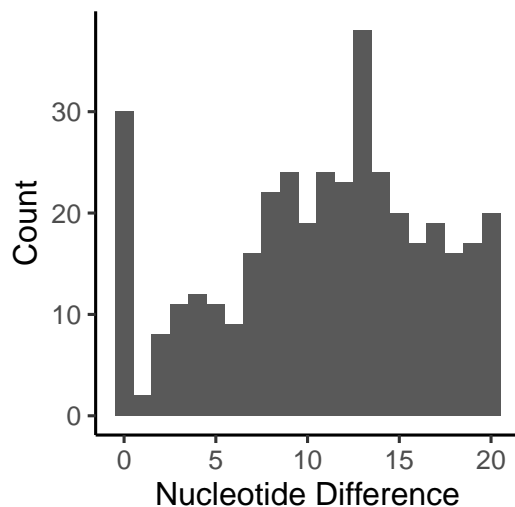
IGHV3-11*06

171 sequences assigned
16 (9.4%) exact matches, in which:
16 unique CDR3
4 unique J



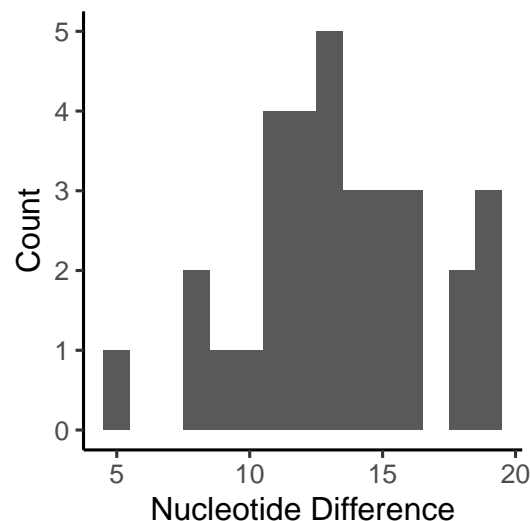
IGHV3-15*01_02

513 sequences assigned
30 (5.8%) exact matches, in which:
30 unique CDR3
6 unique J



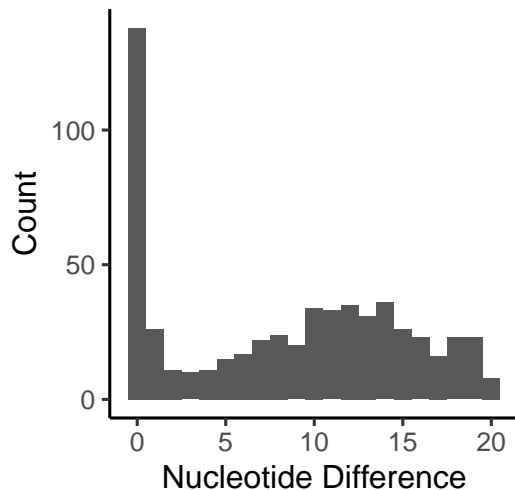
IGHV3-21*06

63 sequences assigned
No exact matches.



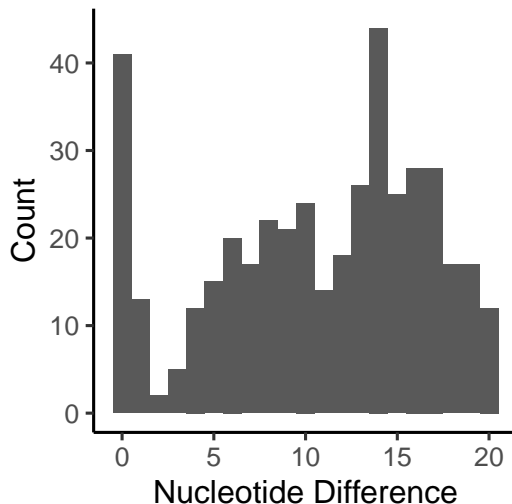
IGHV3-21*01_02

678 sequences assigned
138 (20.4%) exact matches, in which:
133 unique CDR3
6 unique J



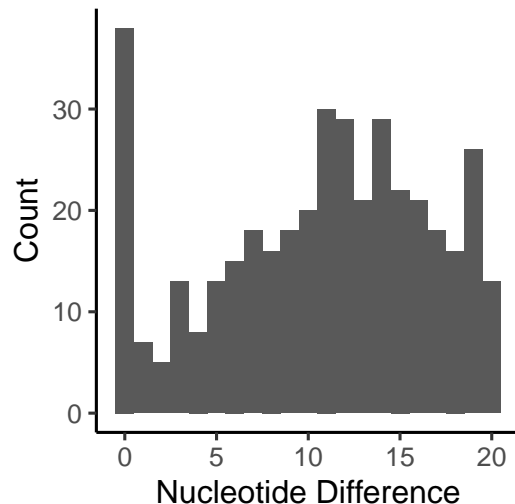
IGHV3-33*01

526 sequences assigned
41 (7.8%) exact matches, in which:
40 unique CDR3
4 unique J



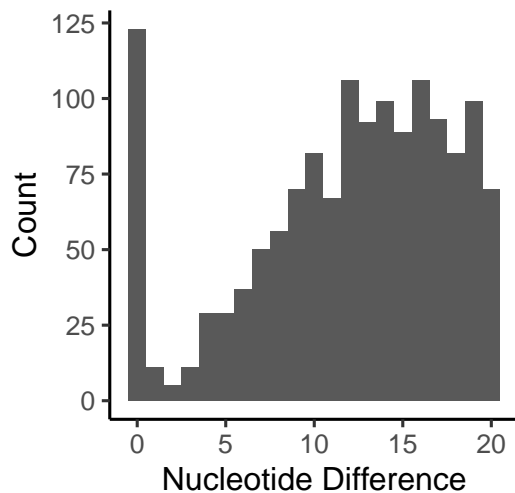
IGHV3-48*04

520 sequences assigned
38 (7.3%) exact matches, in which:
38 unique CDR3
6 unique J



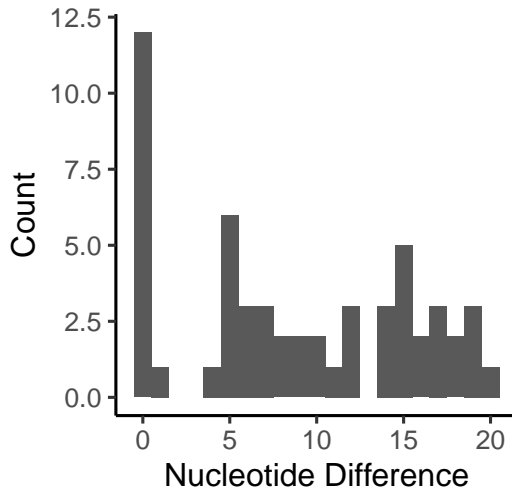
IGHV3-23*01_04

1951 sequences assigned
123 (6.3%) exact matches, in which:
123 unique CDR3
7 unique J



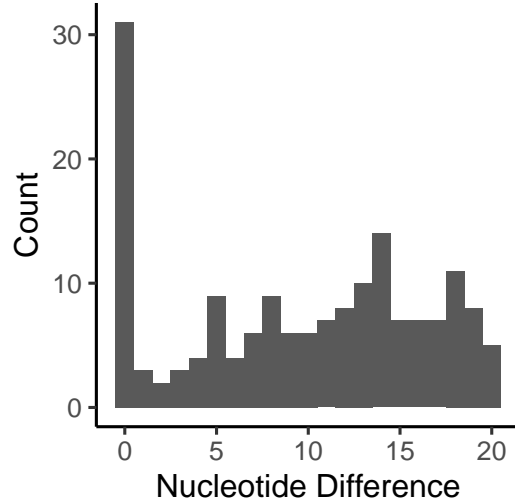
IGHV3-43*01

77 sequences assigned
12 (15.6%) exact matches, in which:
12 unique CDR3
4 unique J



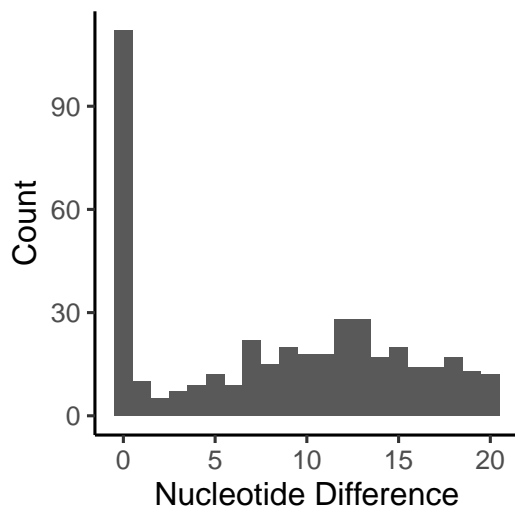
IGHV3-49*03_05

194 sequences assigned
31 (16%) exact matches, in which:
31 unique CDR3
5 unique J



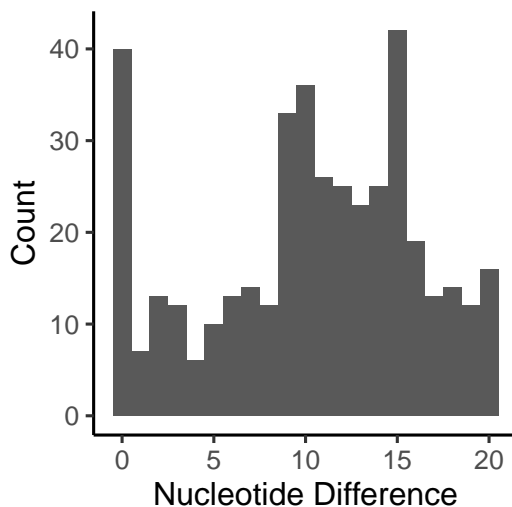
IGHV3-30-3*01

534 sequences assigned
112 (21%) exact matches, in which:
112 unique CDR3
5 unique J



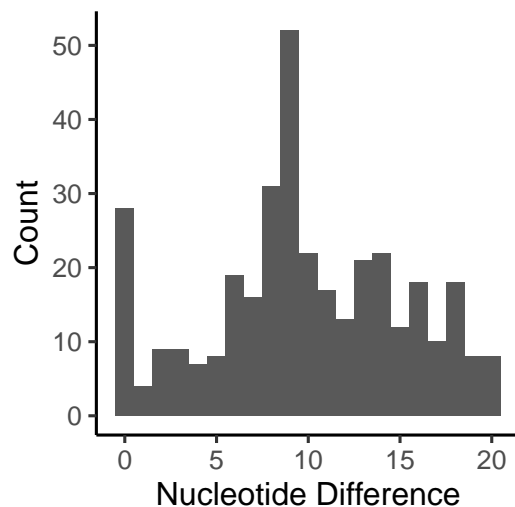
IGHV3-48*02

498 sequences assigned
40 (8%) exact matches, in which:
39 unique CDR3
3 unique J



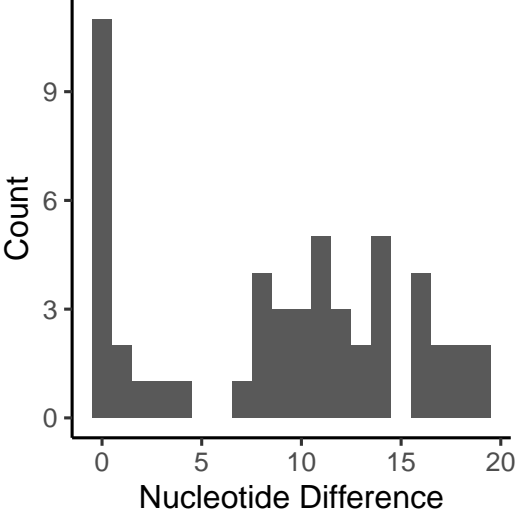
IGHV3-53*01_02

476 sequences assigned
28 (5.9%) exact matches, in which:
28 unique CDR3
5 unique J



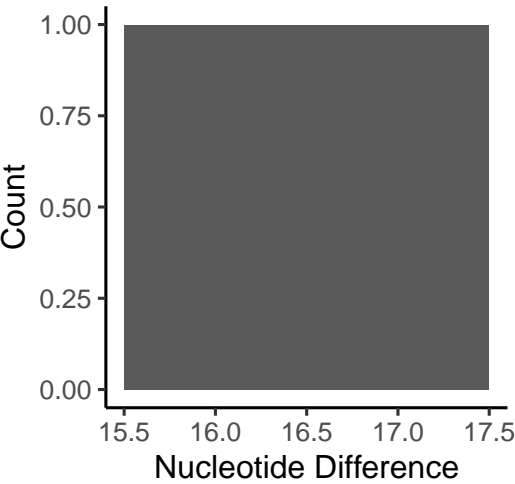
IGHV3-64*01

65 sequences assigned
11 (16.9%) exact matches, in which:
11 unique CDR3
5 unique J



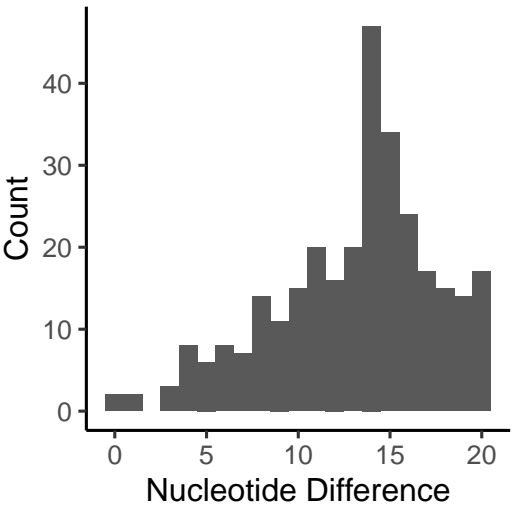
IGHV3-66*04

2 sequences assigned
No exact matches.



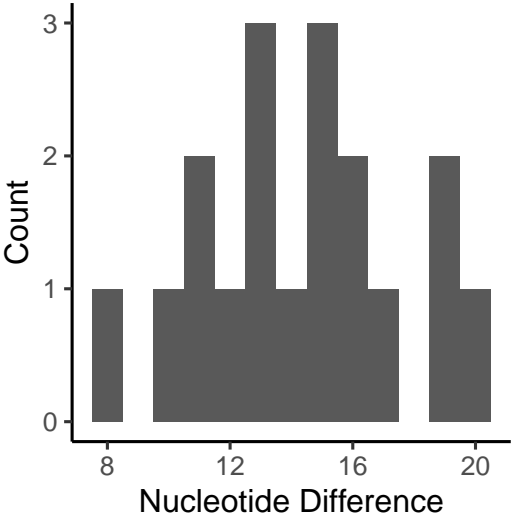
IGHV3-72*01

372 sequences assigned
2 (0.5%) exact matches, in which:
2 unique CDR3
2 unique J



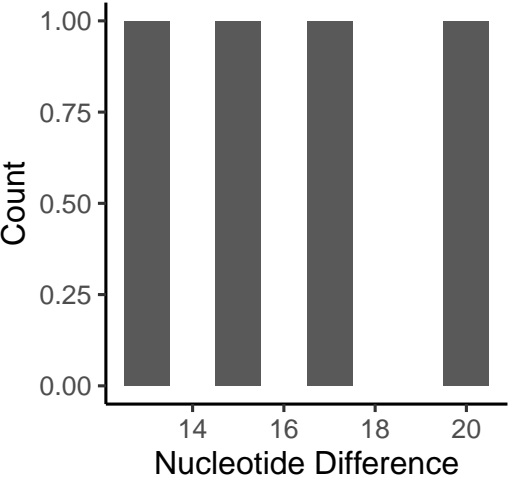
IGHV3-64*02_07

37 sequences assigned
No exact matches.



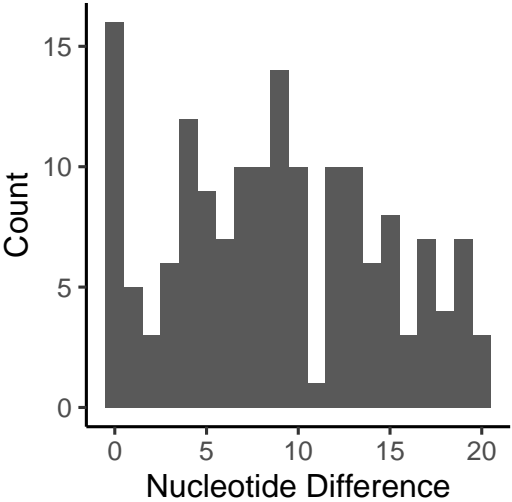
IGHV3-69-1*01

12 sequences assigned
No exact matches.



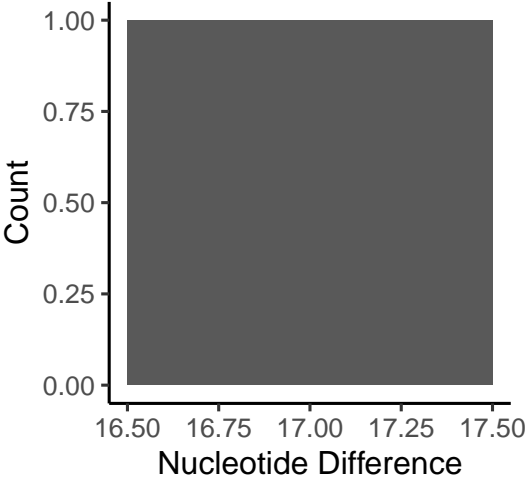
IGHV3-73*01_02

175 sequences assigned
16 (9.1%) exact matches, in which:
16 unique CDR3
5 unique J



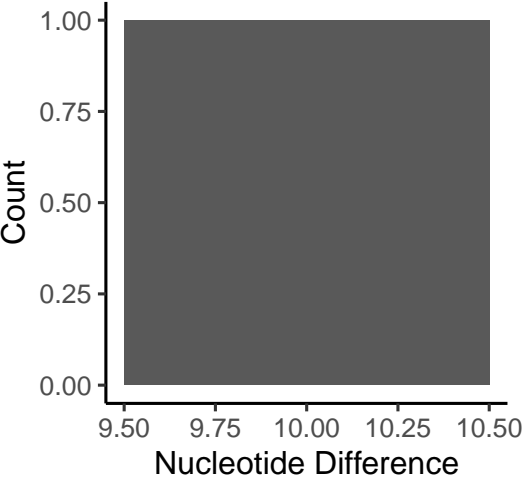
IGHV3-66*02

3 sequences assigned
No exact matches.



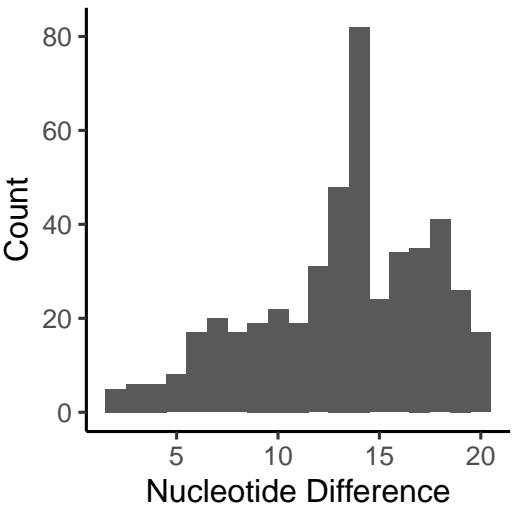
IGHV3-69-1*02

3 sequences assigned
No exact matches.



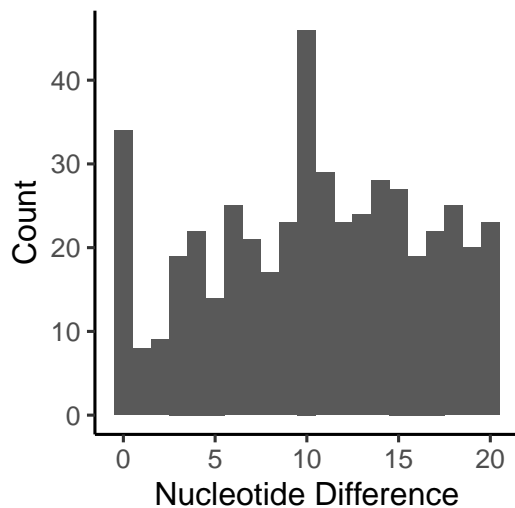
IGHV3-74*03

639 sequences assigned
No exact matches.



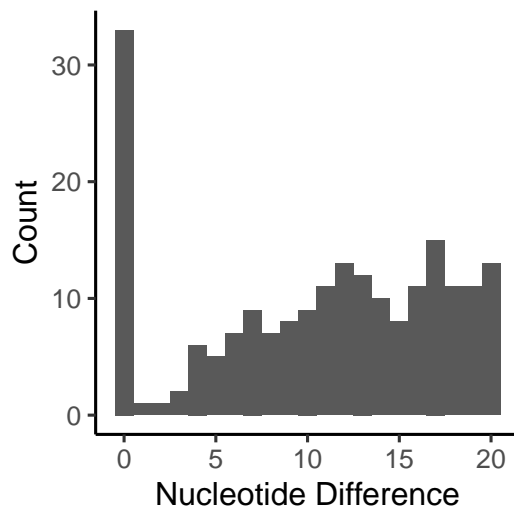
IGHV3-74*01_02

546 sequences assigned
34 (6.2%) exact matches, in which:
34 unique CDR3
5 unique J



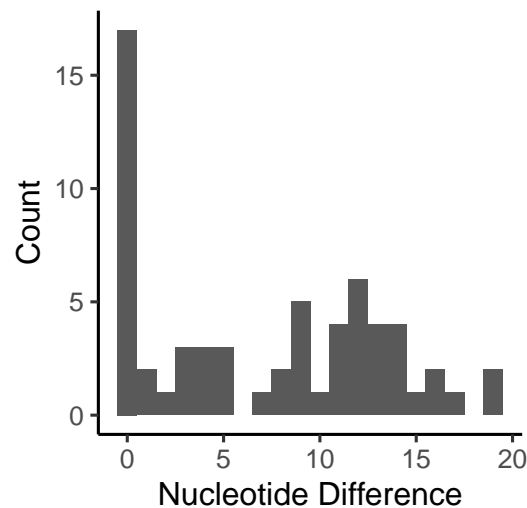
IGHV4-4*02_03

286 sequences assigned
33 (11.5%) exact matches, in which:
33 unique CDR3
6 unique J



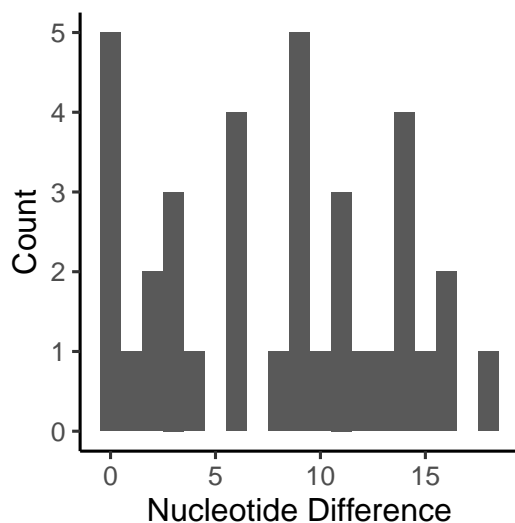
IGHV4-30-2*01

81 sequences assigned
17 (21%) exact matches, in which:
17 unique CDR3
5 unique J



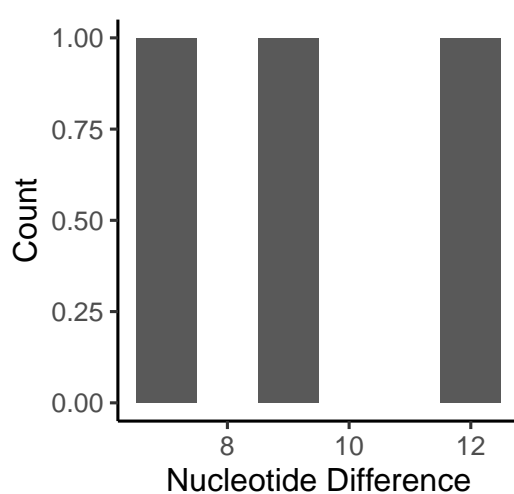
IGHV3-43D*03

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



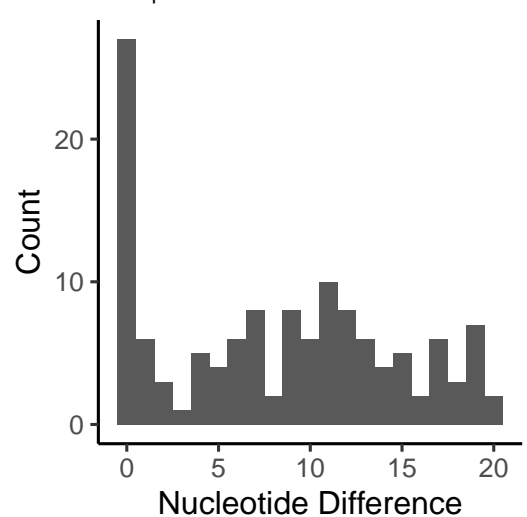
IGHV4-28*01_07

3 sequences assigned
No exact matches.



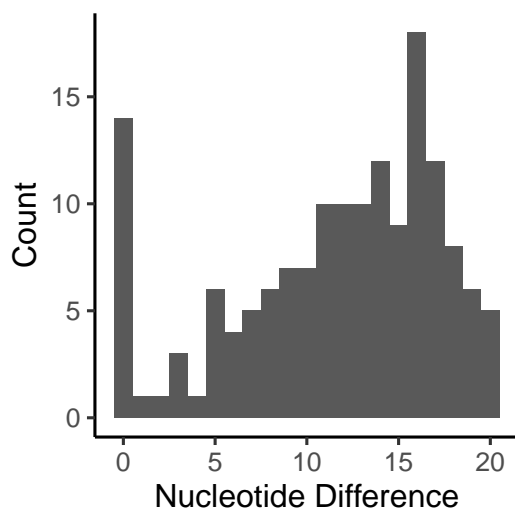
IGHV4-30-4*01

160 sequences assigned
27 (16.9%) exact matches, in which:
27 unique CDR3
5 unique J



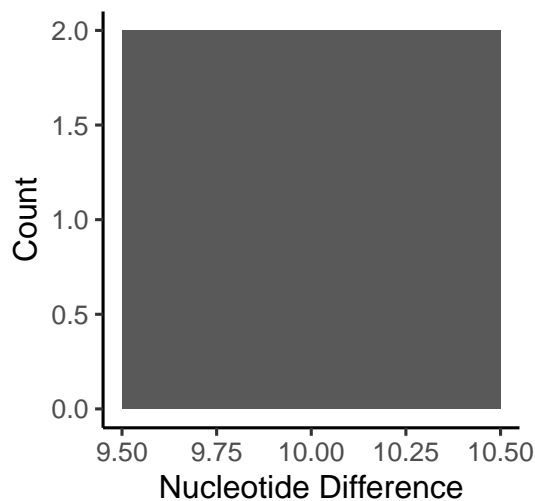
IGHV3-64D*06

209 sequences assigned
14 (6.7%) exact matches, in which:
14 unique CDR3
2 unique J



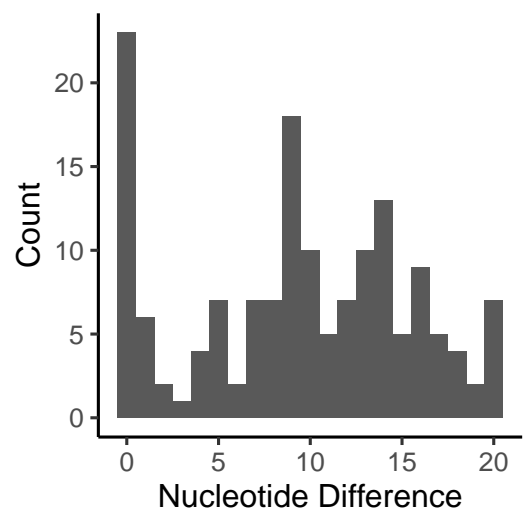
IGHV4-28*02_05

2 sequences assigned
No exact matches.



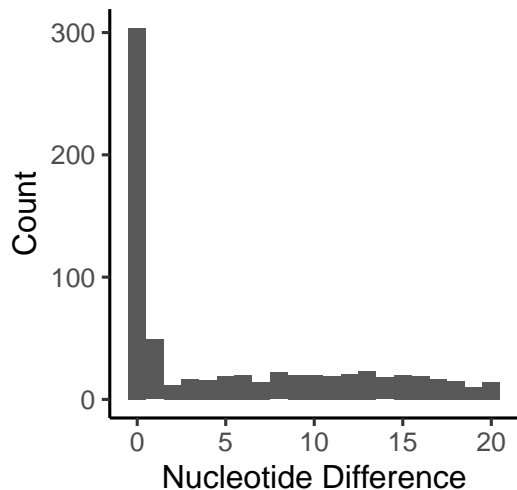
IGHV4-31*02

193 sequences assigned
23 (11.9%) exact matches, in which:
23 unique CDR3
4 unique J



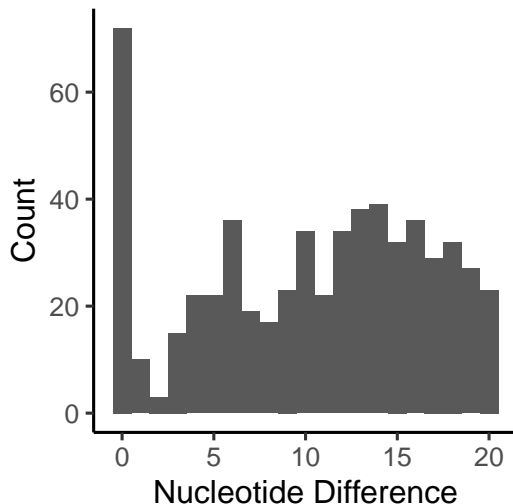
IGHV4-34*01_02

828 sequences assigned
304 (36.7%) exact matches, in which:
294 unique CDR3
7 unique J



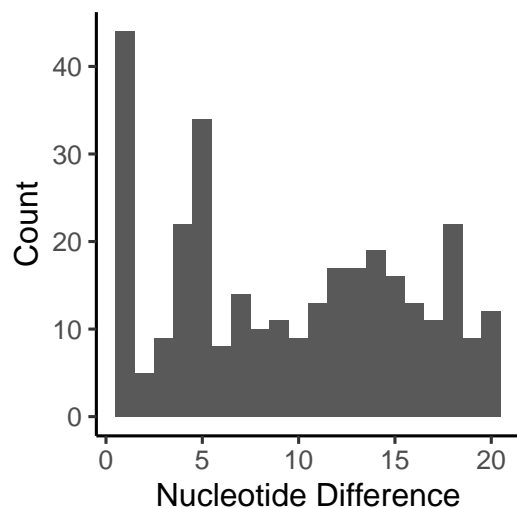
IGHV4-39*07

806 sequences assigned
72 (8.9%) exact matches, in which:
72 unique CDR3
6 unique J



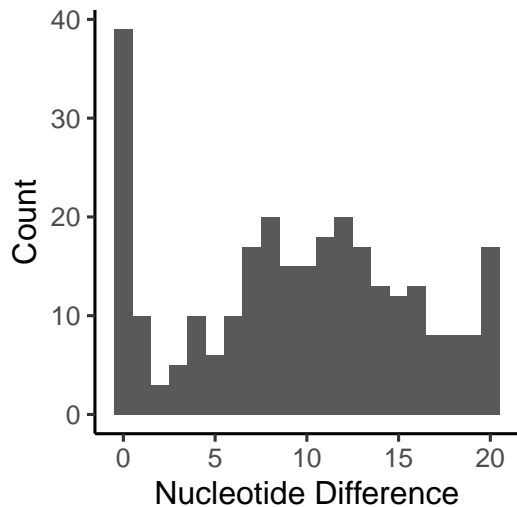
IGHV4-59*11

421 sequences assigned
No exact matches.



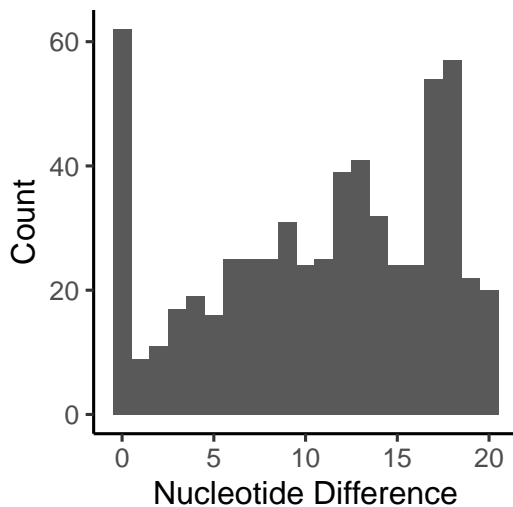
IGHV4-38-2*02

403 sequences assigned
39 (9.7%) exact matches, in which:
39 unique CDR3
5 unique J



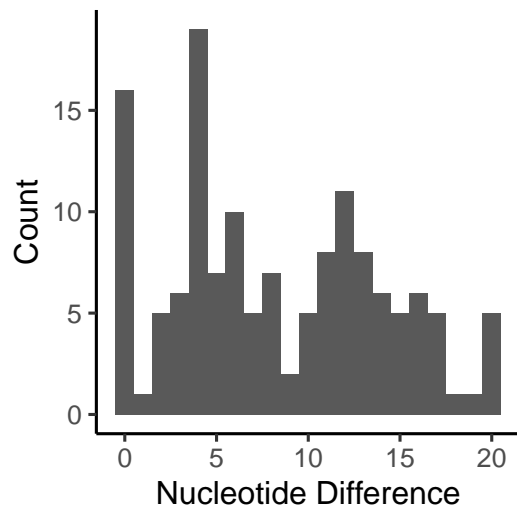
IGHV4-59*08

865 sequences assigned
62 (7.2%) exact matches, in which:
62 unique CDR3
6 unique J



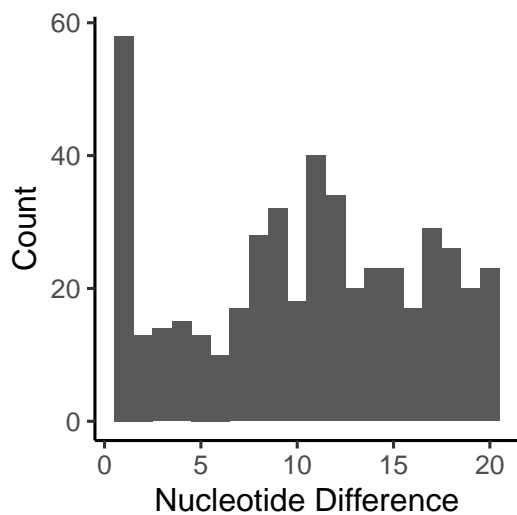
IGHV4-61*01

173 sequences assigned
16 (9.2%) exact matches, in which:
16 unique CDR3
5 unique J



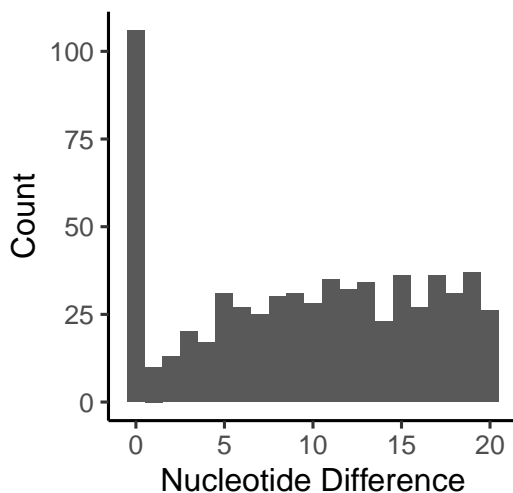
IGHV4-39*02

718 sequences assigned
No exact matches.



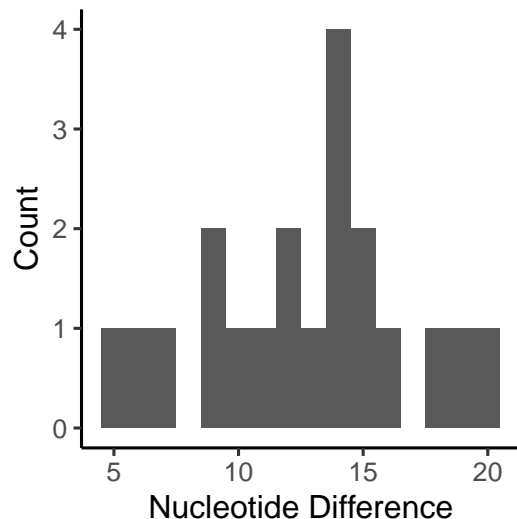
IGHV4-59*01_07

828 sequences assigned
106 (12.8%) exact matches, in which:
106 unique CDR3
7 unique J



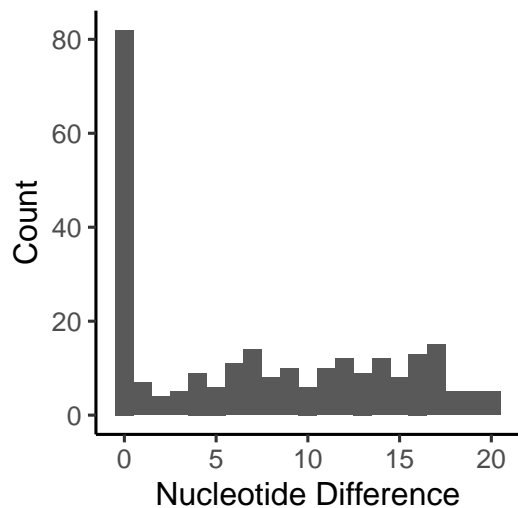
IGHV4-61*08

43 sequences assigned
No exact matches.



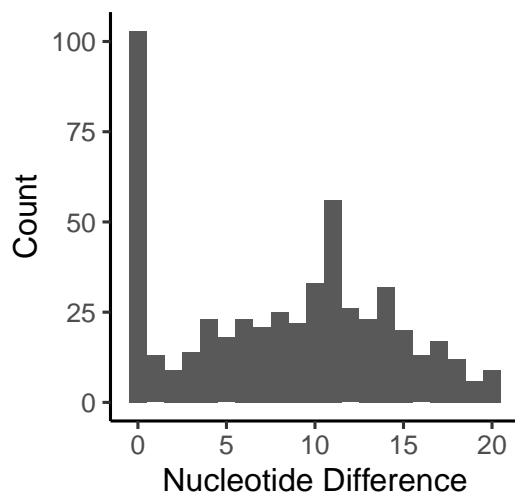
IGHV5-10-1*01_03

292 sequences assigned
82 (28.1%) exact matches, in which:
82 unique CDR3
5 unique J



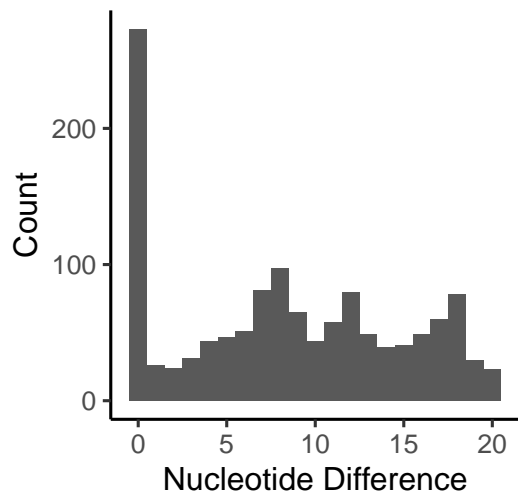
IGHV7-4-1*02_T63C

598 sequences assigned
103 (17.2%) exact matches, in which:
103 unique CDR3
6 unique J



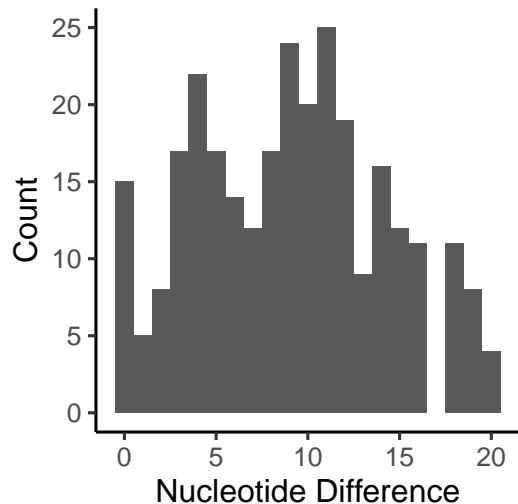
IGHV5-51*07_A128G

1482 sequences assigned
273 (18.4%) exact matches, in which:
272 unique CDR3
7 unique J

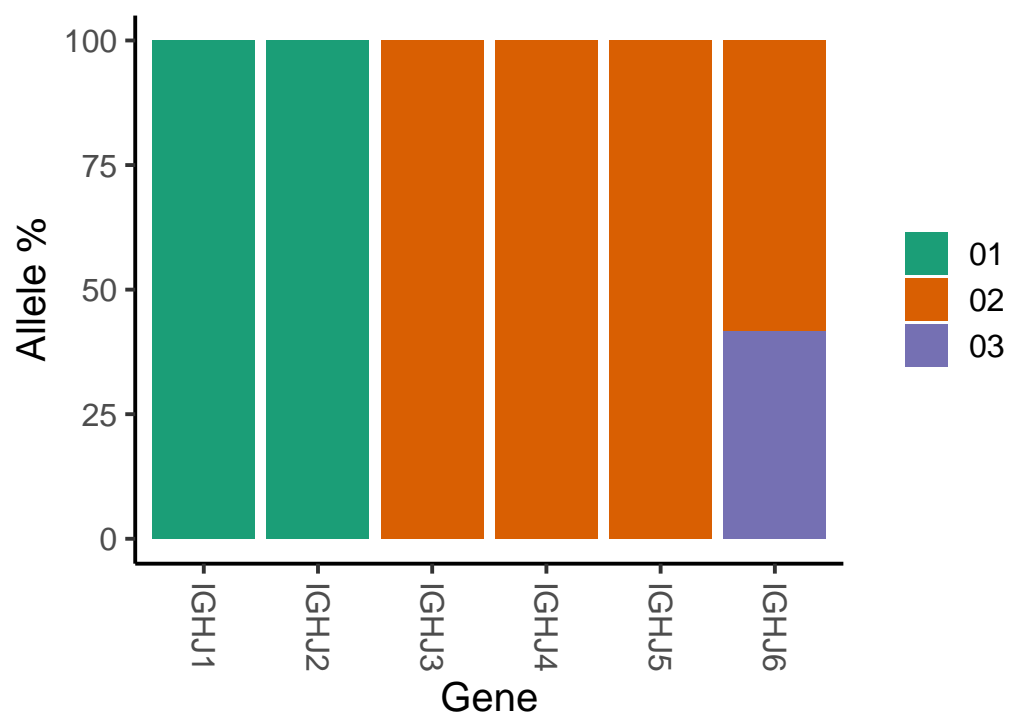


IGHV6-1*01_02

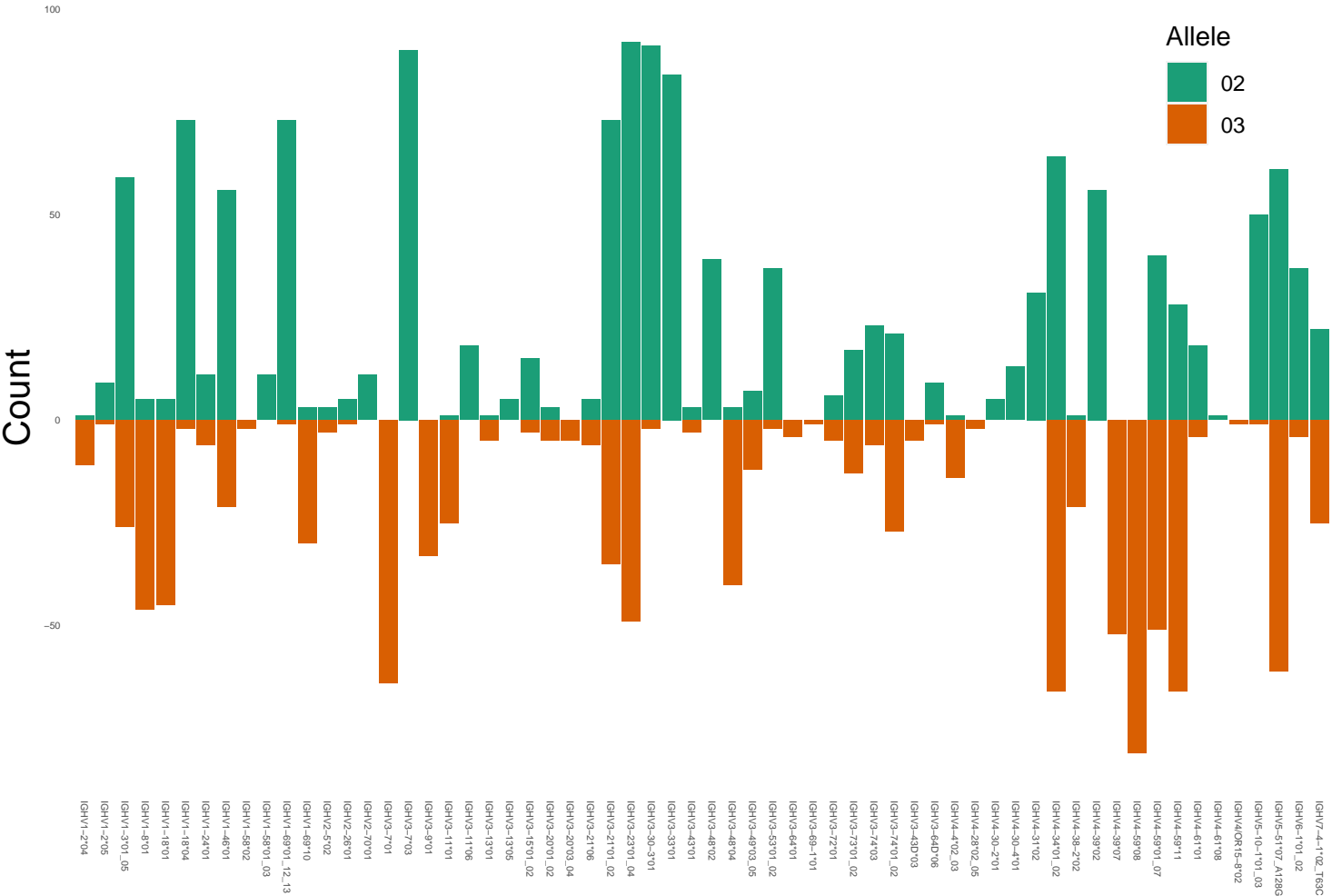
298 sequences assigned
15 (5%) exact matches, in which:
15 unique CDR3
4 unique J



Allele Usage



Sequence Count by IGHJ6 allele usage



Warning – no inferred sequences found.