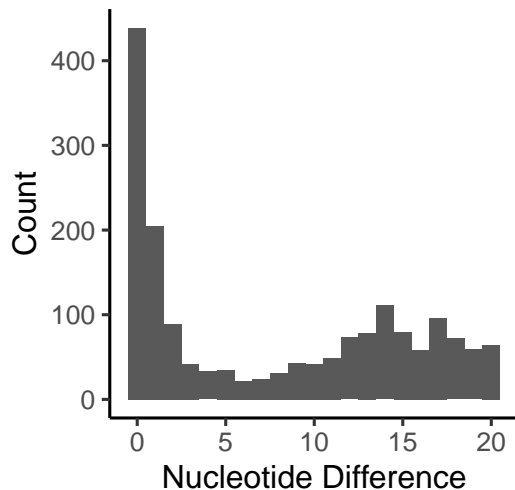


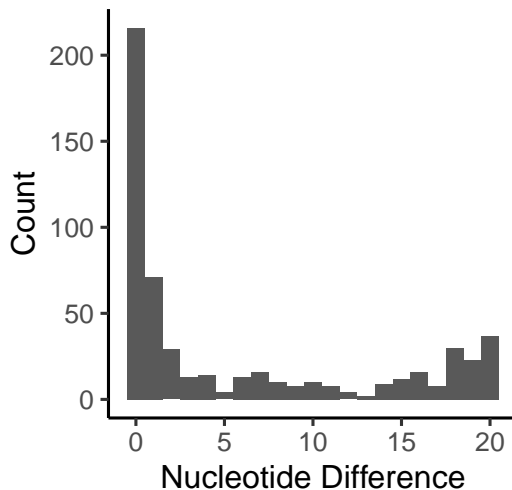
IGHV1–2*02

2645 sequences assigned
439 (16.6%) exact matches, in which:
438 unique CDR3
7 unique J



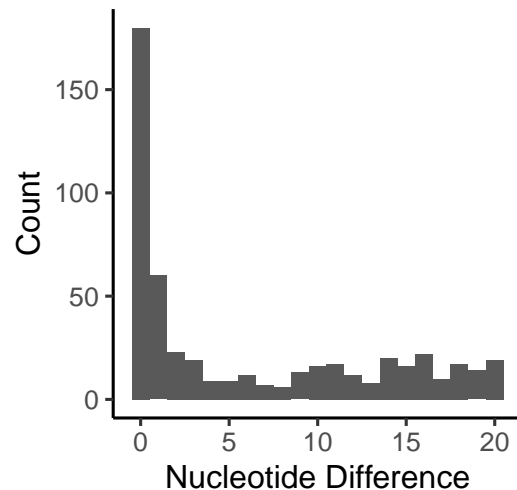
IGHV1–18*04

973 sequences assigned
216 (22.2%) exact matches, in which:
216 unique CDR3
6 unique J



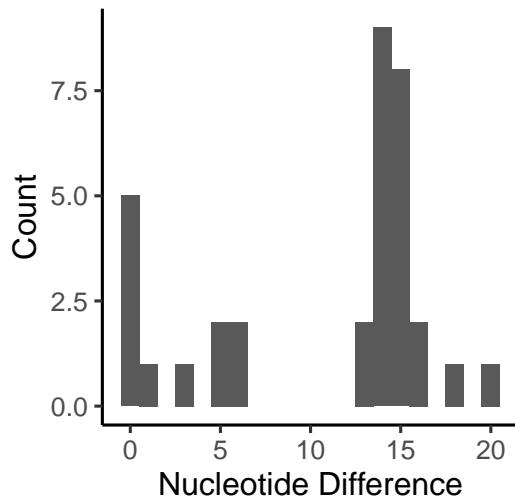
IGHV1–46*01

810 sequences assigned
180 (22.2%) exact matches, in which:
180 unique CDR3
5 unique J



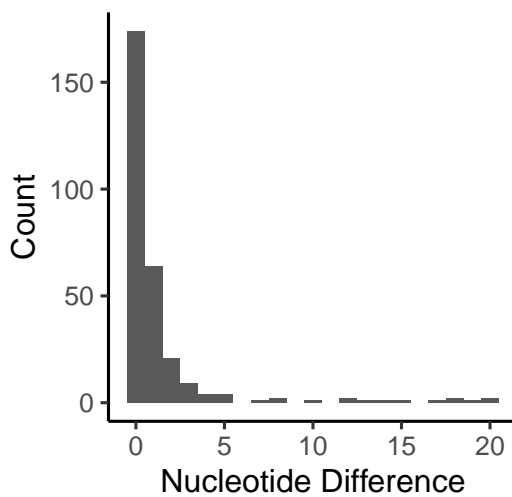
IGHV1–3*02

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



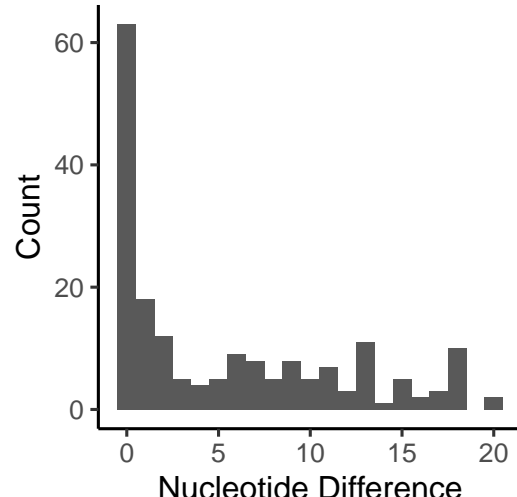
IGHV1–24*01

328 sequences assigned
174 (53%) exact matches, in which:
174 unique CDR3
7 unique J



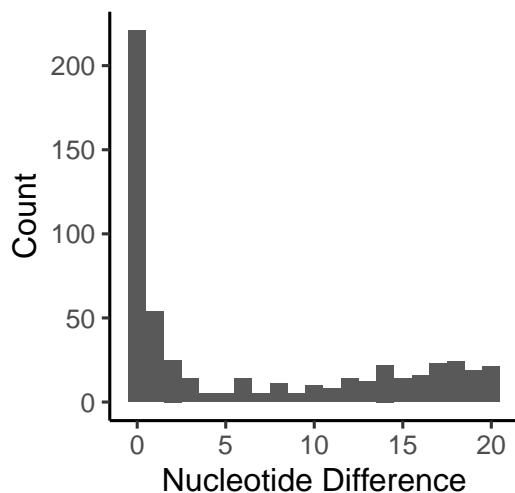
IGHV1–46*03

264 sequences assigned
63 (23.9%) exact matches, in which:
63 unique CDR3
5 unique J



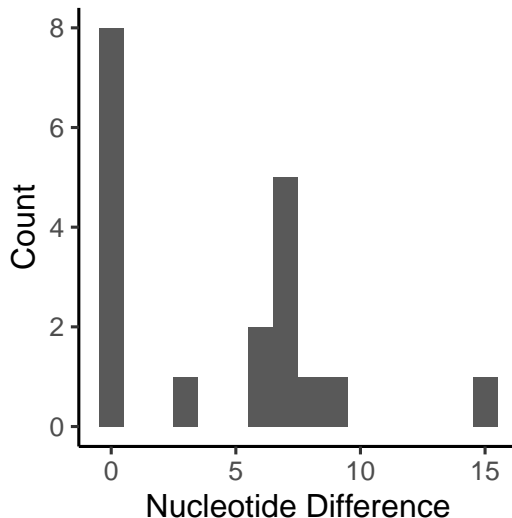
IGHV1–18*01

862 sequences assigned
221 (25.6%) exact matches, in which:
220 unique CDR3
6 unique J



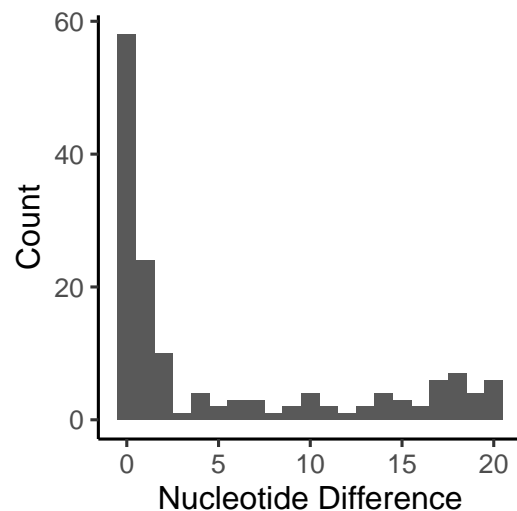
IGHV1–45*02

19 sequences assigned
8 (42.1%) exact matches, in which:
8 unique CDR3
4 unique J



IGHV1–58*01

164 sequences assigned
58 (35.4%) exact matches, in which:
57 unique CDR3
6 unique J



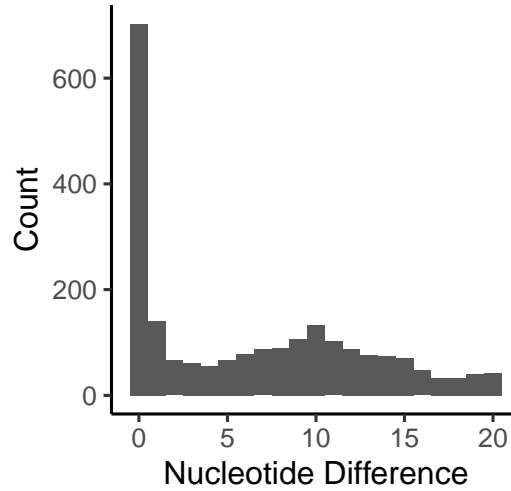
IGHV1-68*02

1 sequences assigned
1 (100%) exact matches, in which:
1 unique CDR3
1 unique J



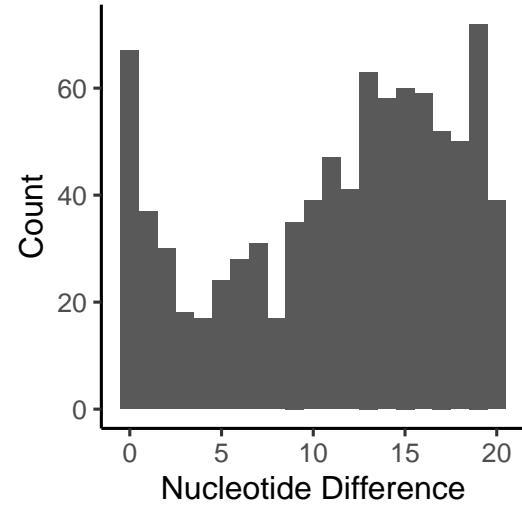
IGHV2-5*02

2771 sequences assigned
703 (25.4%) exact matches, in which:
694 unique CDR3
7 unique J



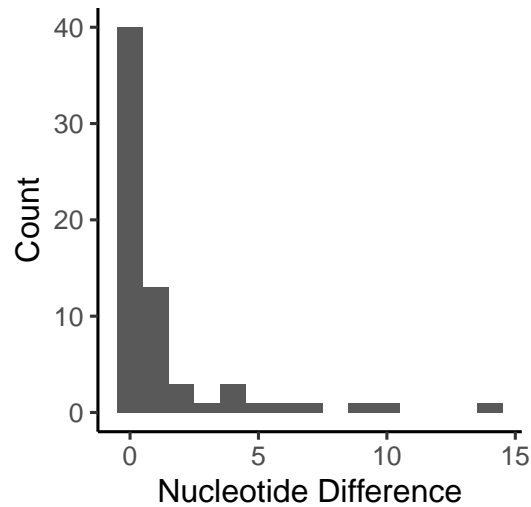
IGHV3-7*04

1274 sequences assigned
67 (5.3%) exact matches, in which:
66 unique CDR3
7 unique J



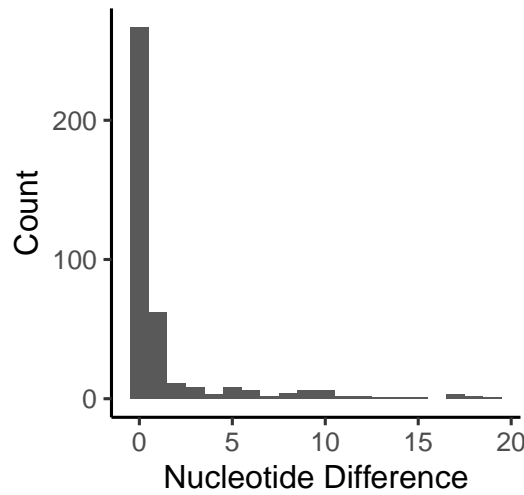
IGHV1-69-2*01

78 sequences assigned
40 (51.3%) exact matches, in which:
40 unique CDR3
4 unique J



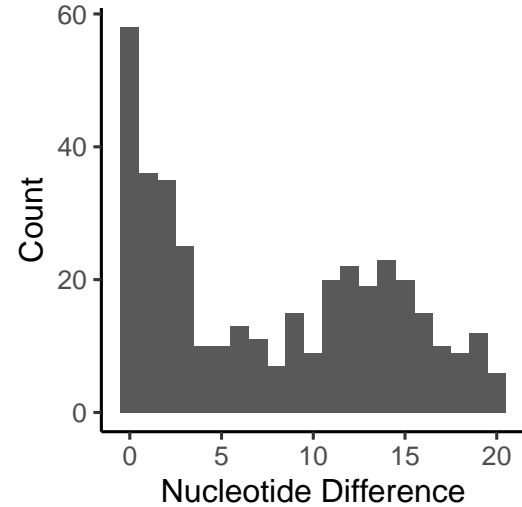
IGHV2-26*01

406 sequences assigned
267 (65.8%) exact matches, in which:
267 unique CDR3
7 unique J



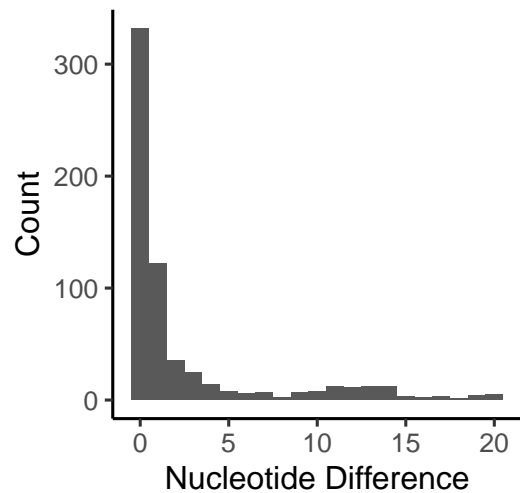
IGHV3-11*06

611 sequences assigned
58 (9.5%) exact matches, in which:
57 unique CDR3
6 unique J



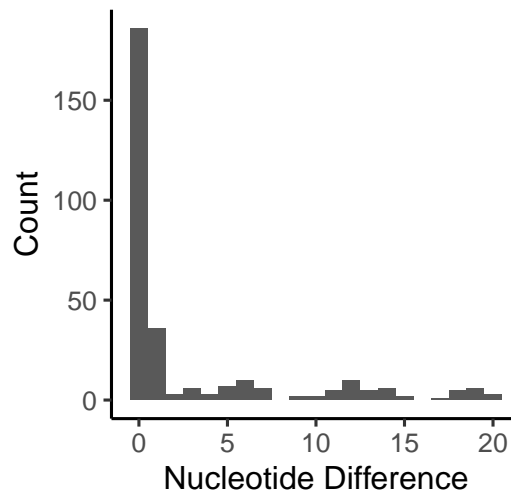
IGHV1-69*06

723 sequences assigned
332 (45.9%) exact matches, in which:
327 unique CDR3
6 unique J



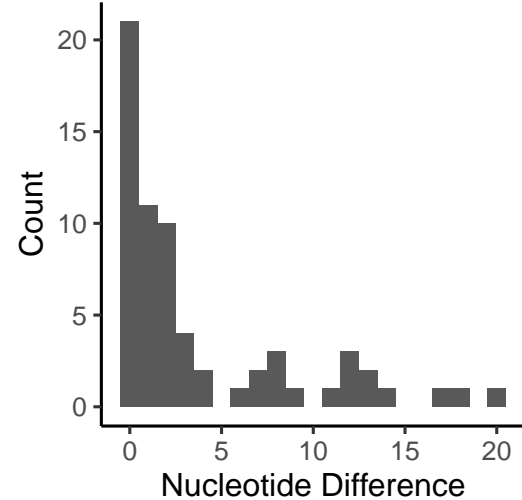
IGHV2-70*01

340 sequences assigned
186 (54.7%) exact matches, in which:
186 unique CDR3
6 unique J



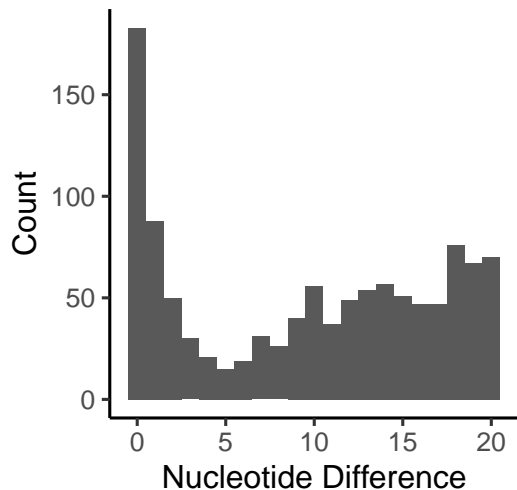
IGHV3-13*05

88 sequences assigned
21 (23.9%) exact matches, in which:
20 unique CDR3
5 unique J



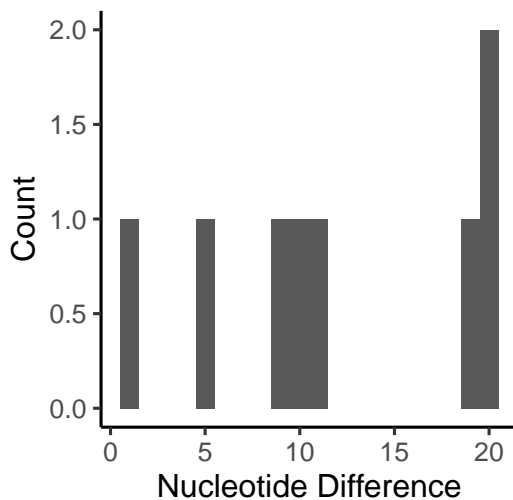
IGHV3-15*01

1710 sequences assigned
183 (10.7%) exact matches, in which:
180 unique CDR3
7 unique J



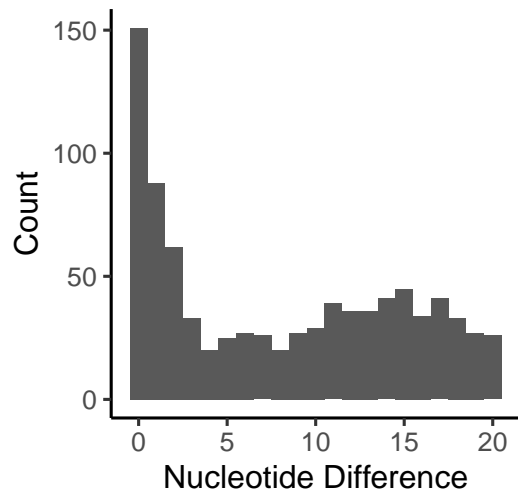
IGHV3-20*04

17 sequences assigned
No exact matches.



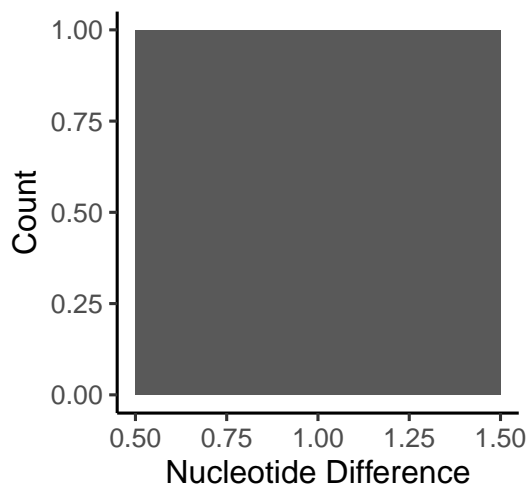
IGHV3-30-3*01

1216 sequences assigned
151 (12.4%) exact matches, in which:
151 unique CDR3
6 unique J



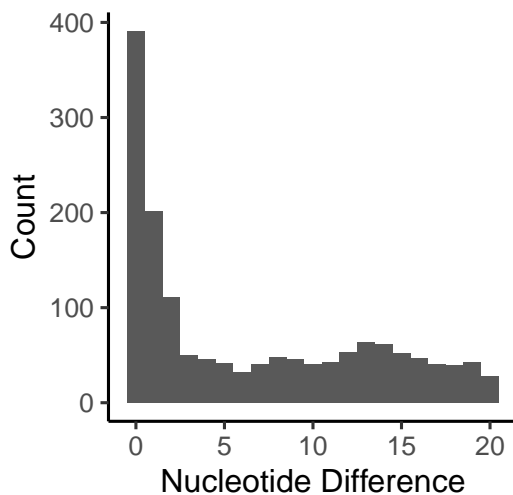
IGHV3-19*01

2 sequences assigned
No exact matches.



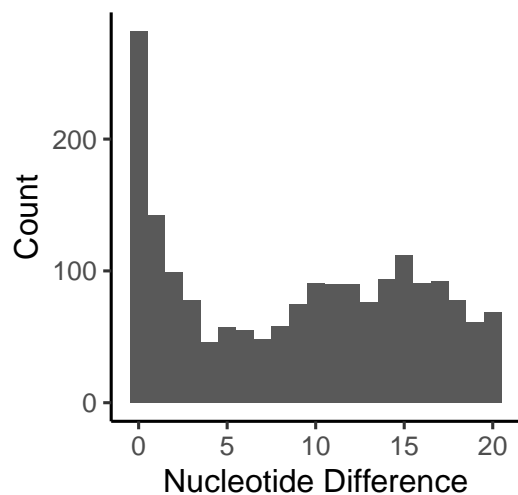
IGHV3-21*01

2120 sequences assigned
391 (18.4%) exact matches, in which:
385 unique CDR3
7 unique J



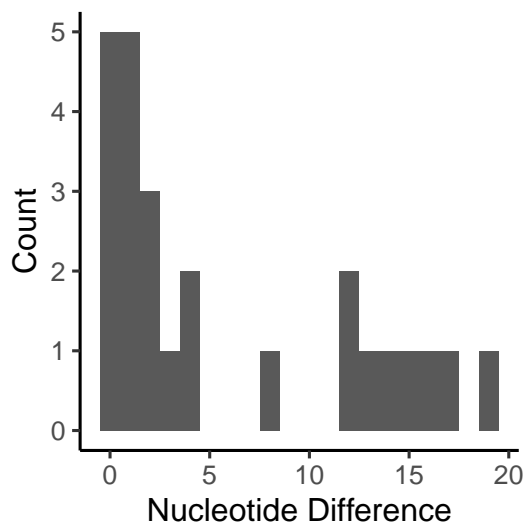
IGHV3-33*01

2536 sequences assigned
282 (11.1%) exact matches, in which:
277 unique CDR3
7 unique J



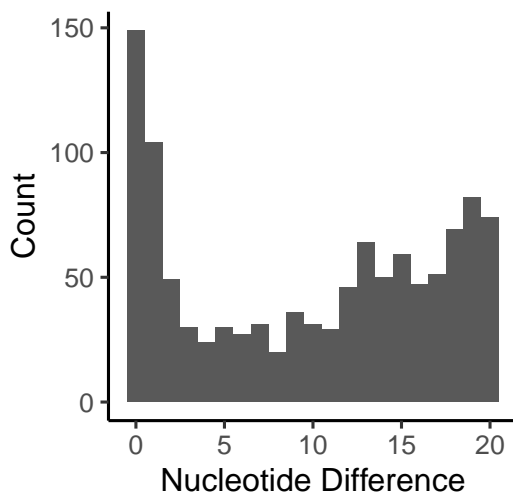
IGHV3-20*01

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



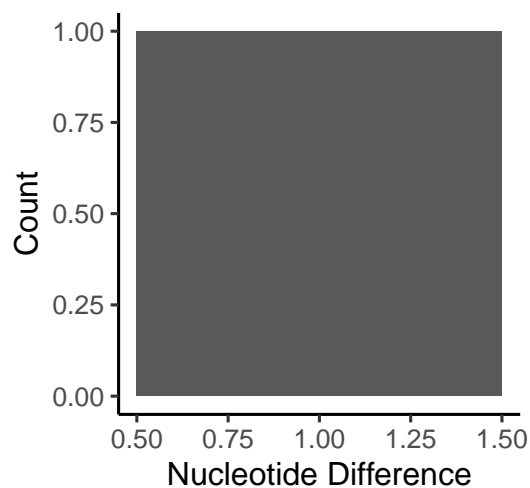
IGHV3-23*04

1801 sequences assigned
149 (8.3%) exact matches, in which:
147 unique CDR3
6 unique J



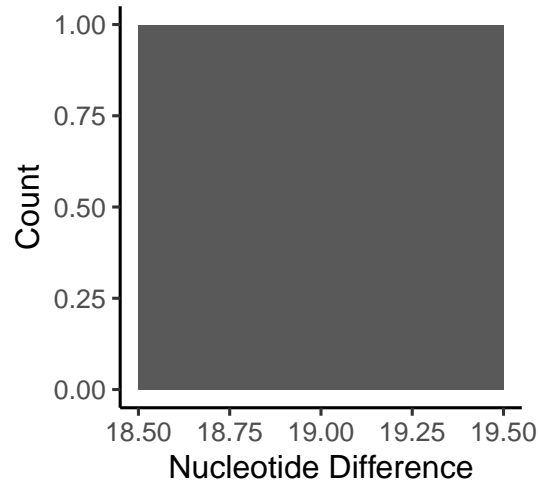
IGHV3-35*01

1 sequences assigned
No exact matches.



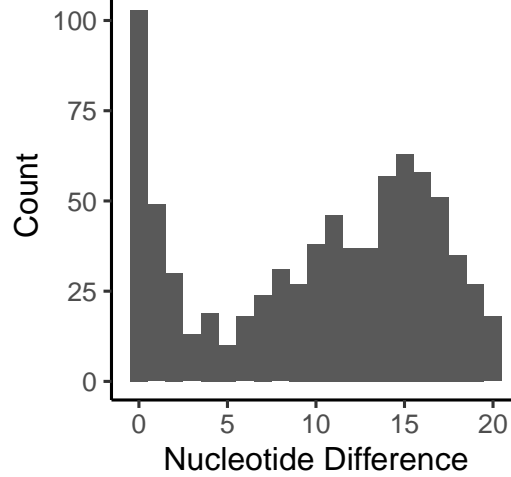
IGHV3-41*02

1 sequences assigned
No exact matches.



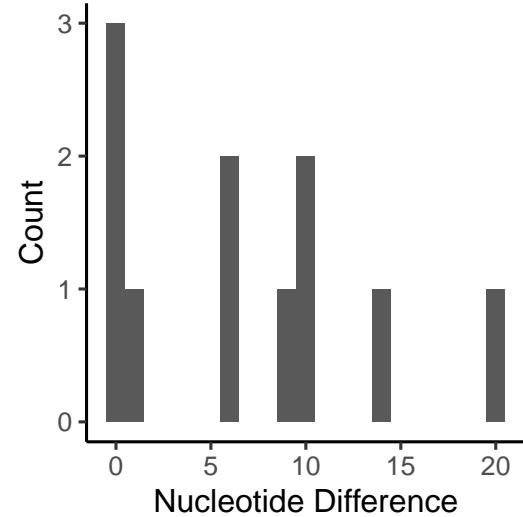
IGHV3-48*02

1045 sequences assigned
103 (9.9%) exact matches, in which:
98 unique CDR3
6 unique J



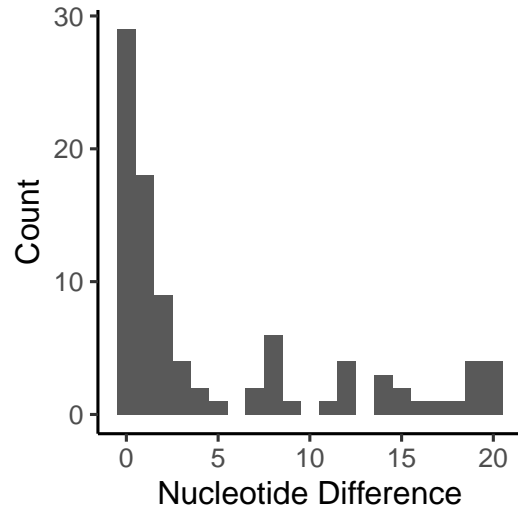
IGHV3-64*02

13 sequences assigned
3 (23.1%) exact matches, in which:
3 unique CDR3
2 unique J



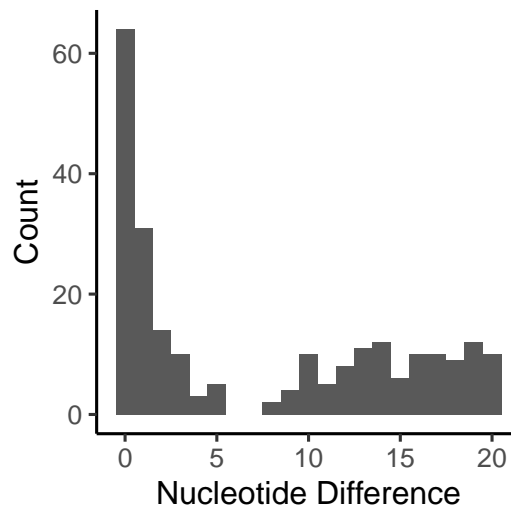
IGHV3-43*01

133 sequences assigned
29 (21.8%) exact matches, in which:
29 unique CDR3
5 unique J



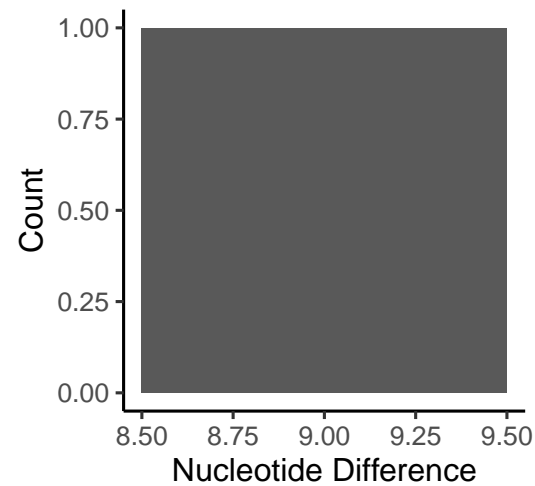
IGHV3-49*05

278 sequences assigned
64 (23%) exact matches, in which:
64 unique CDR3
7 unique J



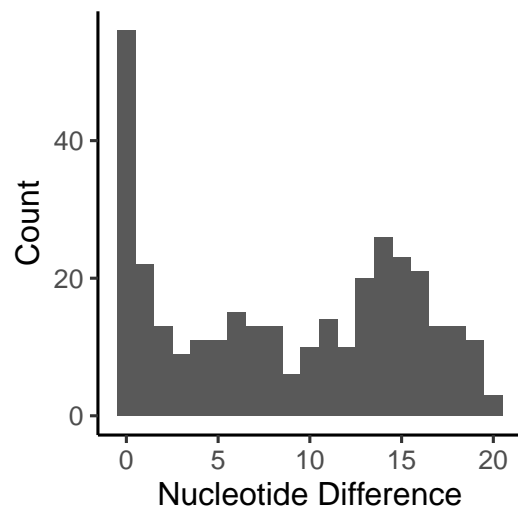
IGHV3-66*01

1 sequences assigned
No exact matches.



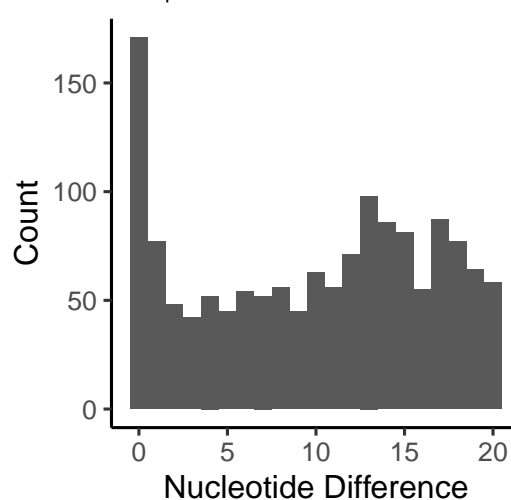
IGHV3-48*01

420 sequences assigned
56 (13.3%) exact matches, in which:
56 unique CDR3
6 unique J



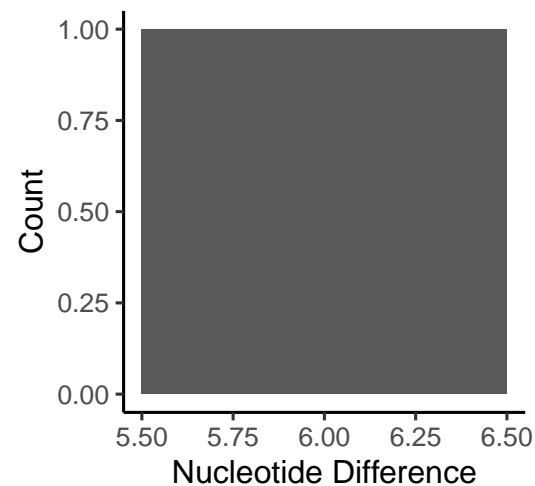
IGHV3-53*01

2086 sequences assigned
171 (8.2%) exact matches, in which:
168 unique CDR3
7 unique J



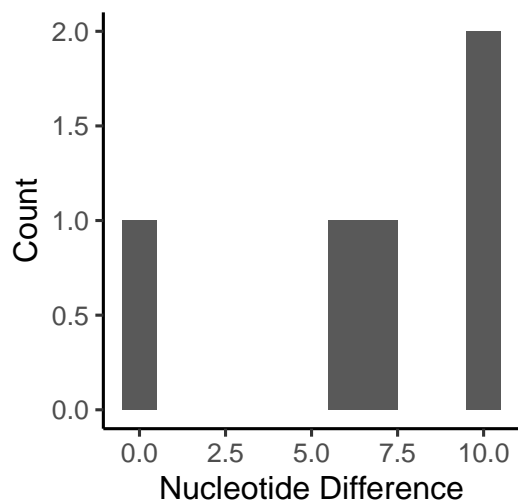
IGHV3-66*03

1 sequences assigned
No exact matches.



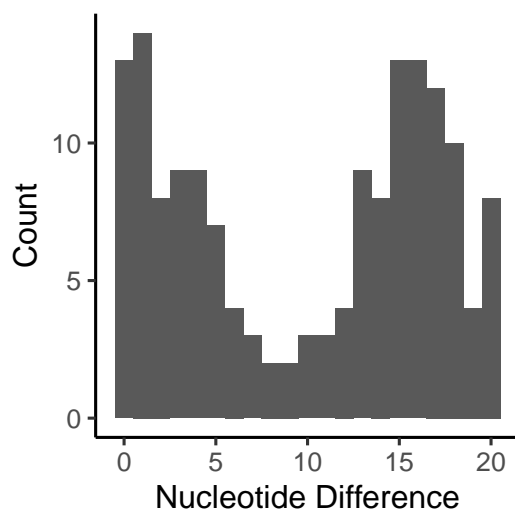
IGHV3-69-1*02

11 sequences assigned
1 (9.1%) exact matches, in which:
1 unique CDR3
1 unique J



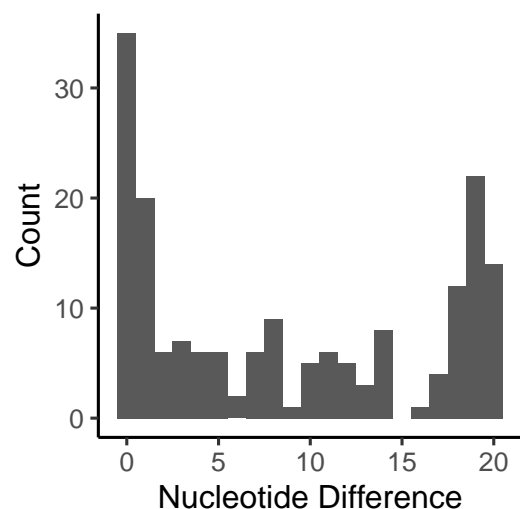
IGHV3-73*02

205 sequences assigned
13 (6.3%) exact matches, in which:
13 unique CDR3
3 unique J



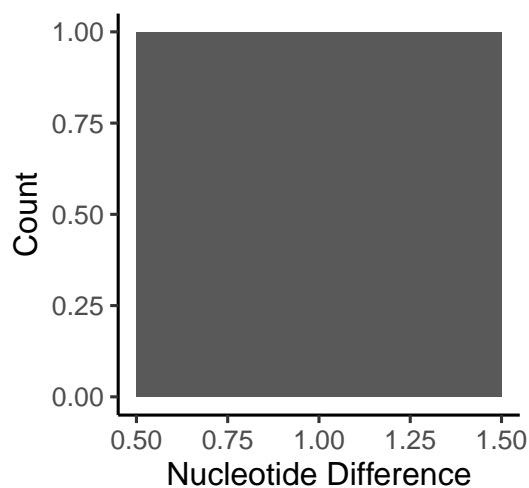
IGHV3-64D*08

308 sequences assigned
35 (11.4%) exact matches, in which:
35 unique CDR3
5 unique J



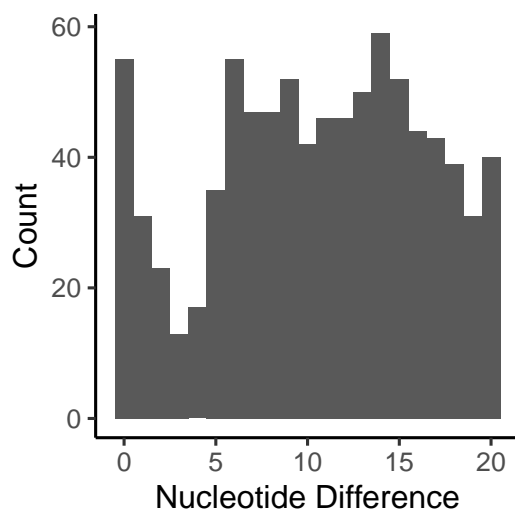
IGHV3-71*03

1 sequences assigned
No exact matches.



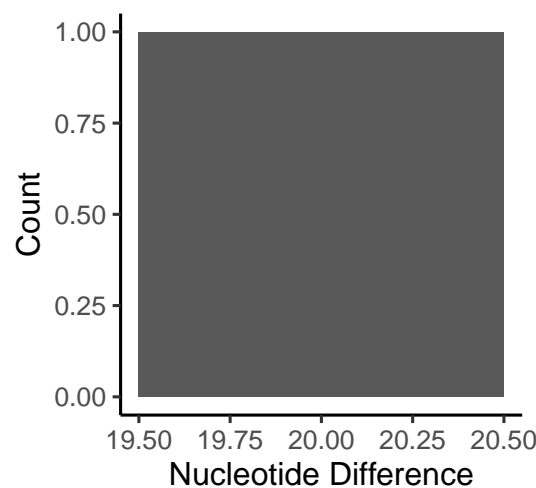
IGHV3-74*01

1319 sequences assigned
55 (4.2%) exact matches, in which:
55 unique CDR3
5 unique J



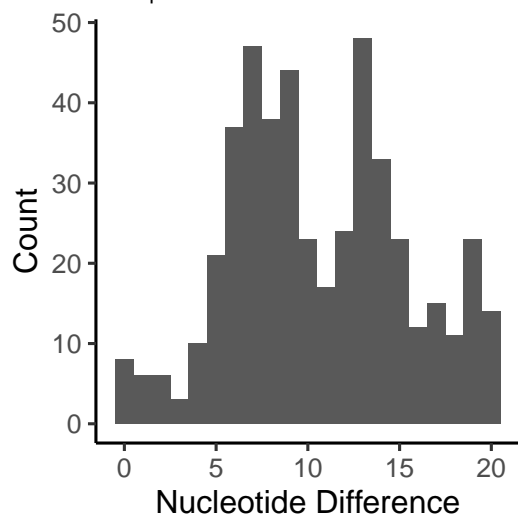
IGHV3-NL1*01

1 sequences assigned
No exact matches.



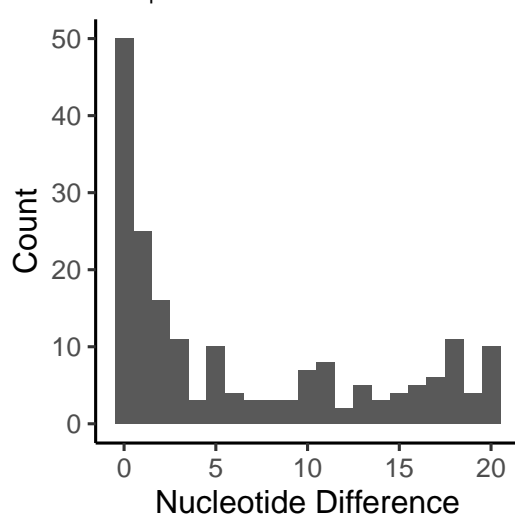
IGHV3-72*01

506 sequences assigned
8 (1.6%) exact matches, in which:
8 unique CDR3
4 unique J



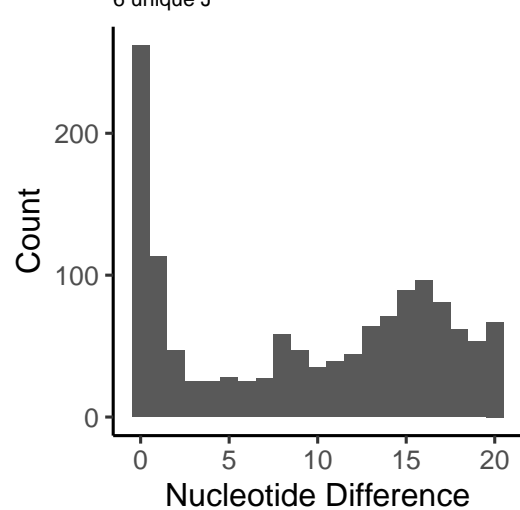
IGHV3-64D*06

329 sequences assigned
50 (15.2%) exact matches, in which:
48 unique CDR3
5 unique J



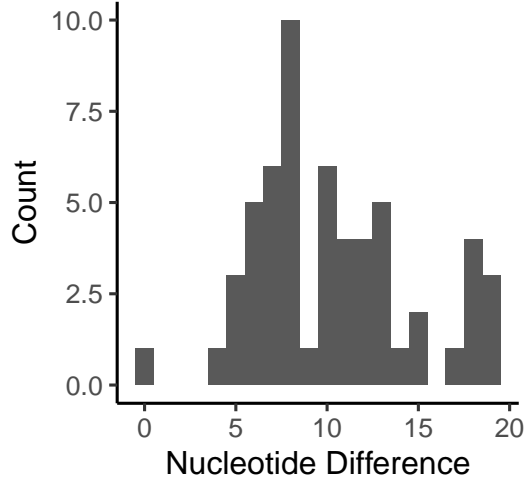
IGHV4-4*07

1966 sequences assigned
262 (13.3%) exact matches, in which:
258 unique CDR3
6 unique J



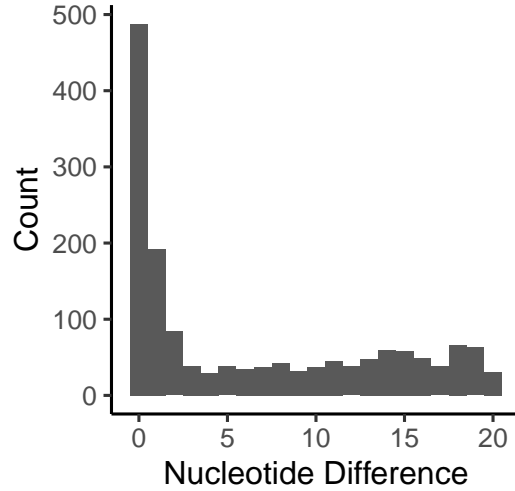
IGHV4-28*01

57 sequences assigned
1 (1.8%) exact matches, in which:
1 unique CDR3
1 unique J



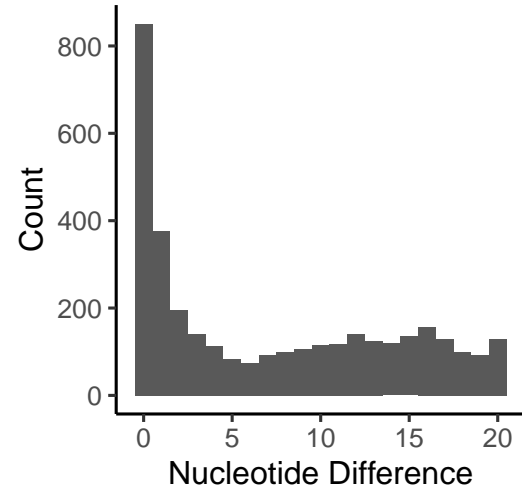
IGHV4-31*03

1975 sequences assigned
488 (24.7%) exact matches, in which:
485 unique CDR3
7 unique J



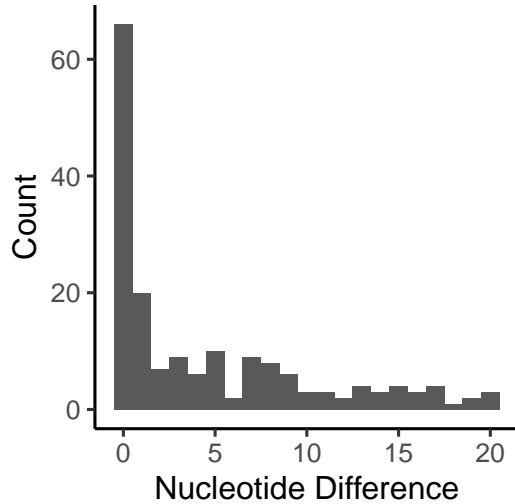
IGHV4-39*01

5286 sequences assigned
851 (16.1%) exact matches, in which:
837 unique CDR3
7 unique J



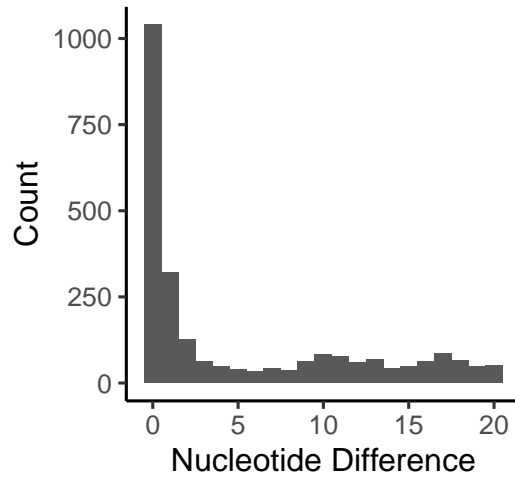
IGHV4-30-2*01

263 sequences assigned
66 (25.1%) exact matches, in which:
64 unique CDR3
5 unique J



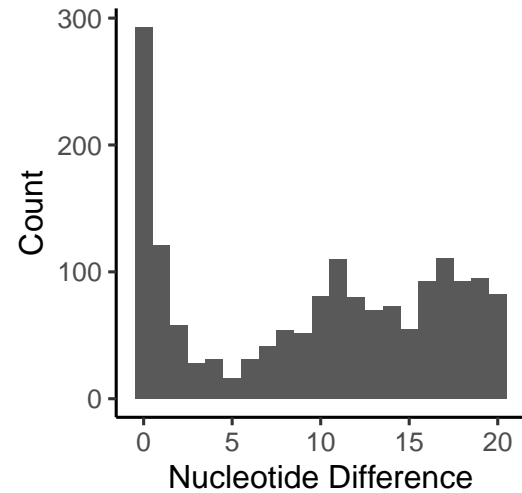
IGHV4-34*01

3206 sequences assigned
1040 (32.4%) exact matches, in which:
1033 unique CDR3
7 unique J



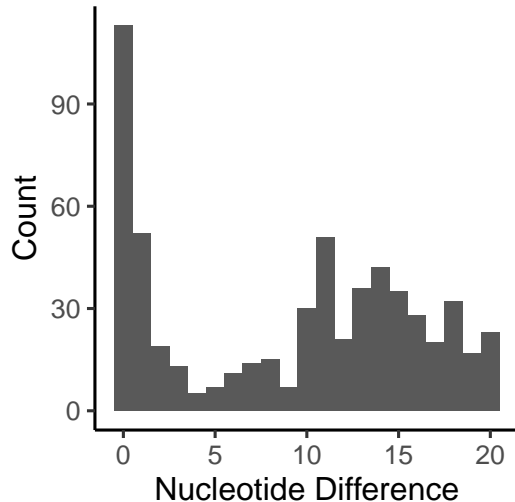
IGHV4-59*01

2646 sequences assigned
293 (11.1%) exact matches, in which:
289 unique CDR3
7 unique J



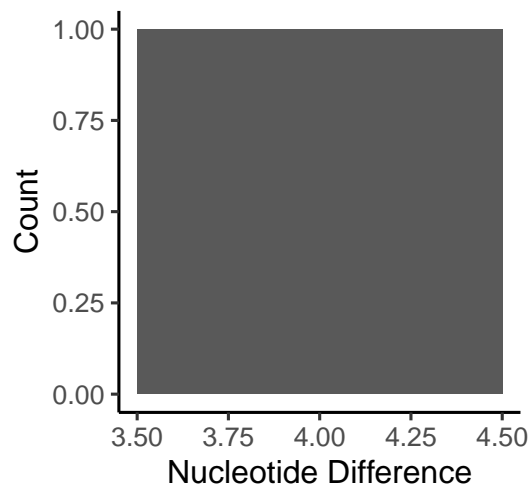
IGHV4-30-4*01

862 sequences assigned
113 (13.1%) exact matches, in which:
110 unique CDR3
7 unique J



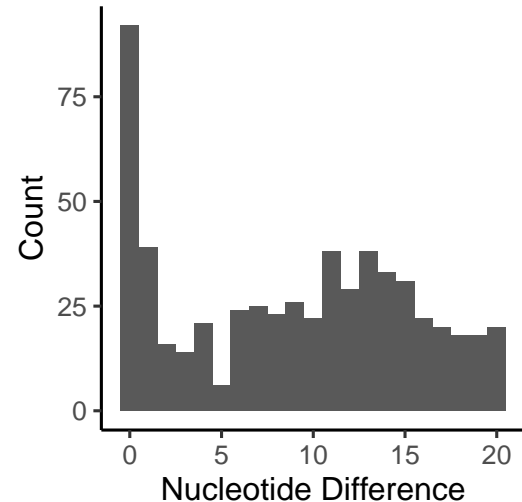
IGHV4-38-2*02

34 sequences assigned
No exact matches.



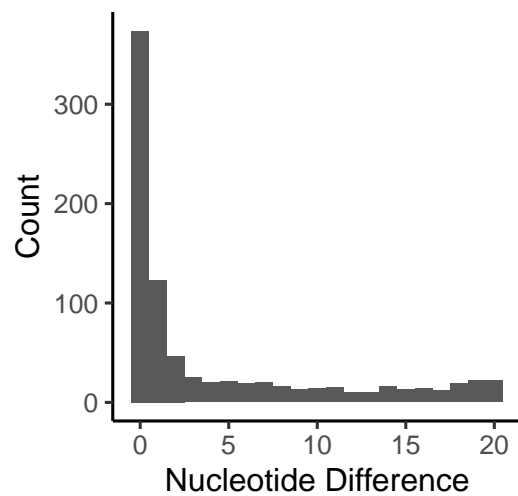
IGHV4-61*01

1025 sequences assigned
92 (9%) exact matches, in which:
92 unique CDR3
7 unique J



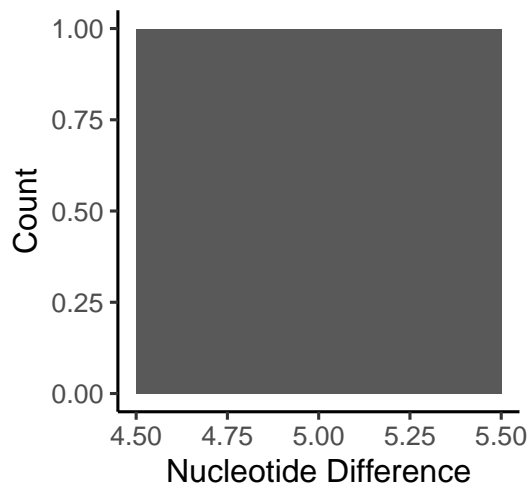
IGHV5–10–1*03

1067 sequences assigned
374 (35.1%) exact matches, in which:
364 unique CDR3
7 unique J



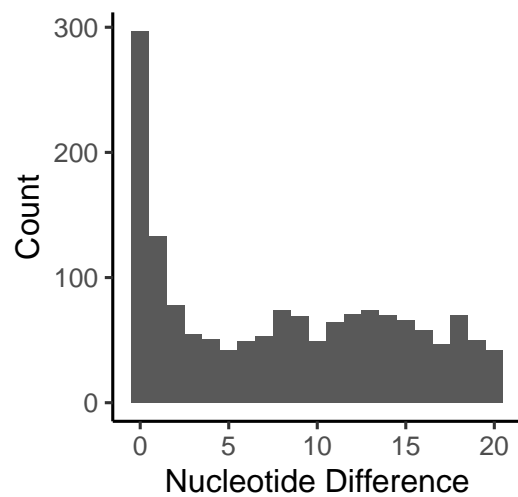
IGHV7–81*01

1 sequences assigned
No exact matches.



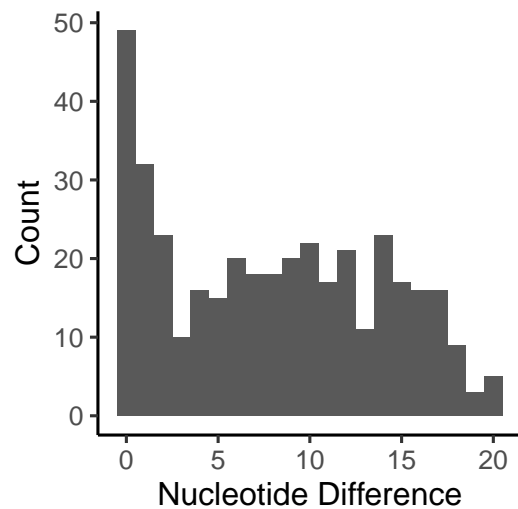
IGHV5–51*01

1936 sequences assigned
297 (15.3%) exact matches, in which:
296 unique CDR3
7 unique J

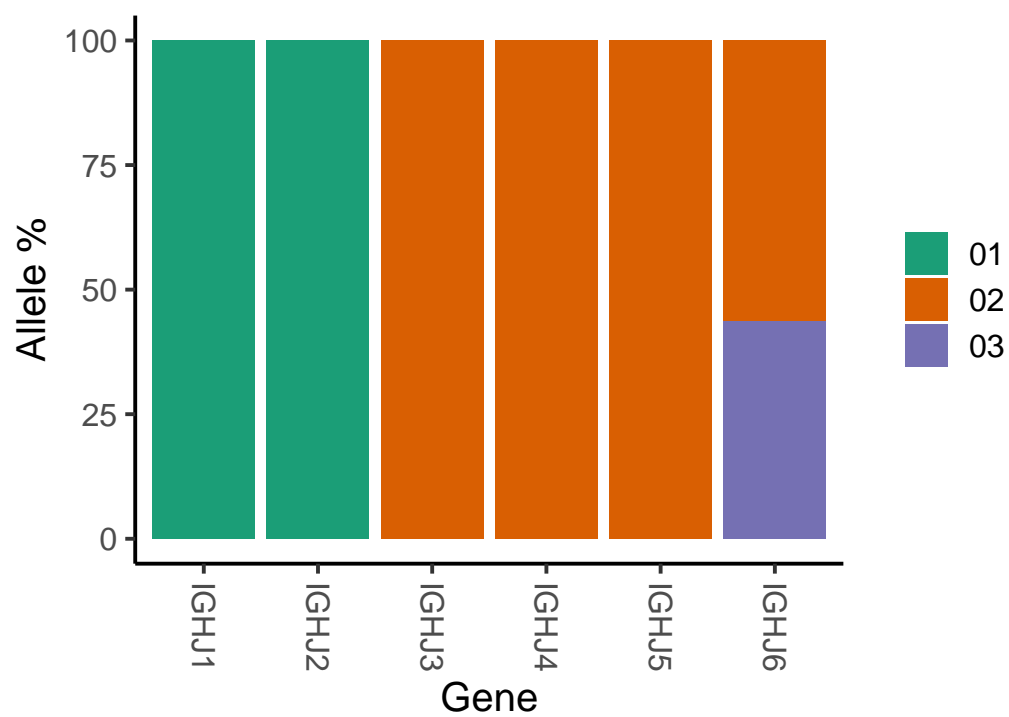


IGHV6–1*01

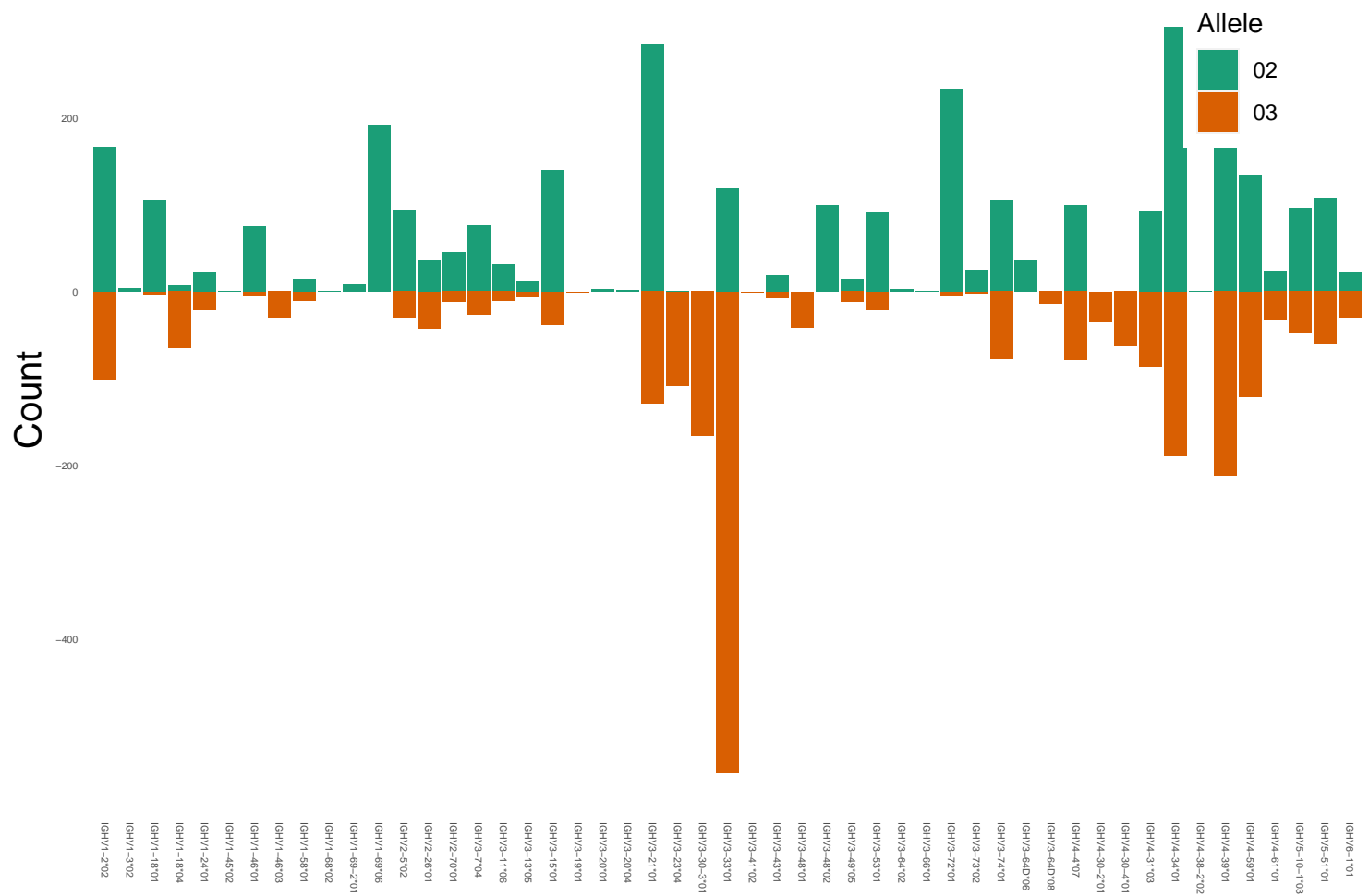
477 sequences assigned
49 (10.3%) exact matches, in which:
49 unique CDR3
6 unique J



Allele Usage



Sequence Count byIGHJ6 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.

Warning – no inferred sequences found.