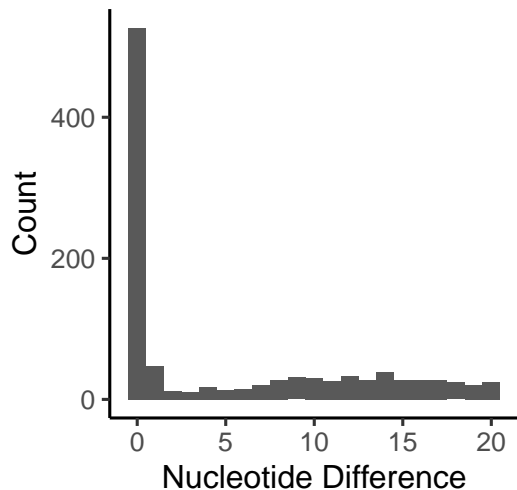


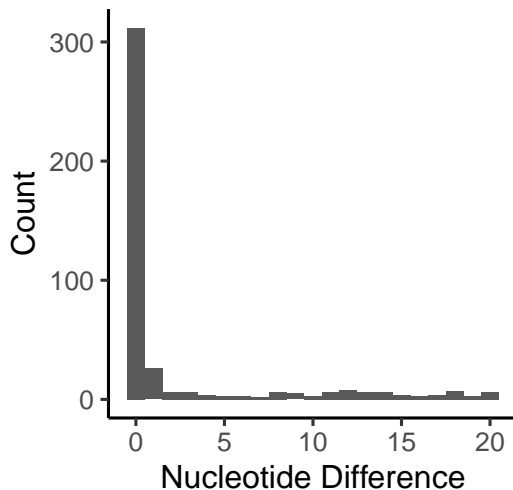
IGHV1-2*02

1269 sequences assigned
527 (41.5%) exact matches, in which:
525 unique CDR3
7 unique J



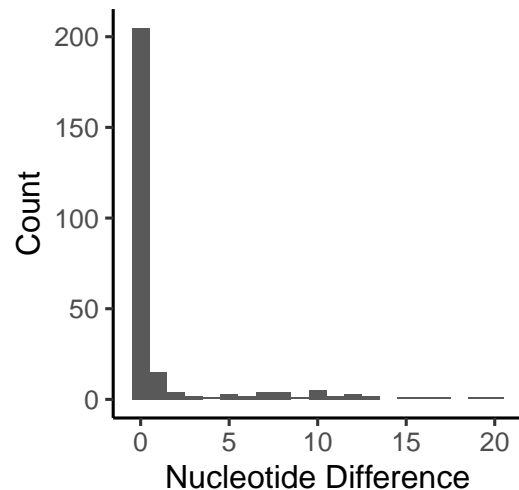
IGHV1-8*01

497 sequences assigned
312 (62.8%) exact matches, in which:
311 unique CDR3
7 unique J



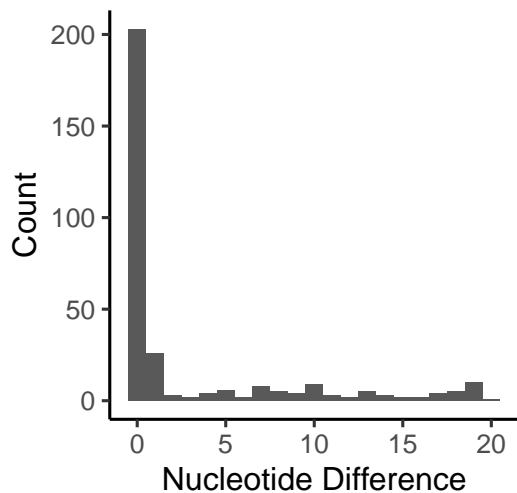
IGHV1-24*01

273 sequences assigned
205 (75.1%) exact matches, in which:
205 unique CDR3
7 unique J



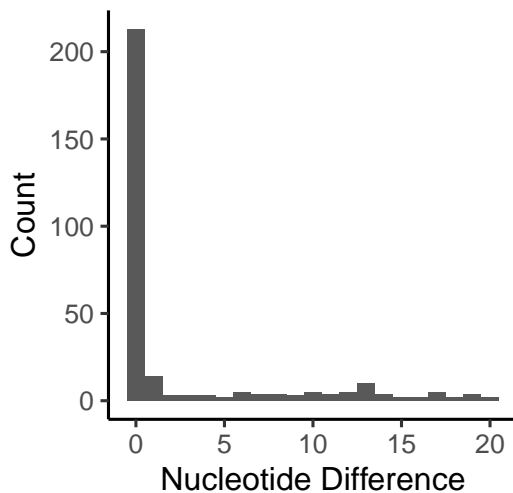
IGHV1-2*04

340 sequences assigned
203 (59.7%) exact matches, in which:
202 unique CDR3
5 unique J



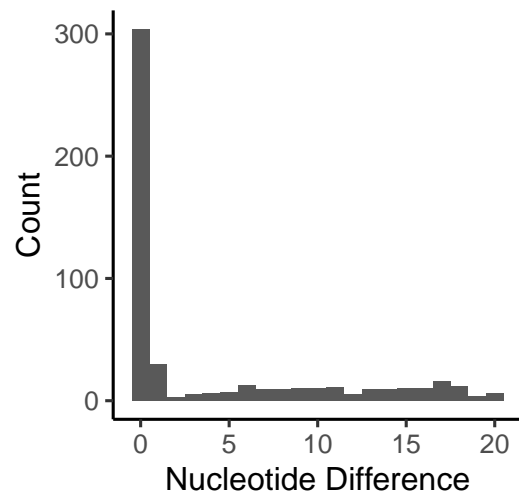
IGHV1-8*03

310 sequences assigned
213 (68.7%) exact matches, in which:
211 unique CDR3
5 unique J



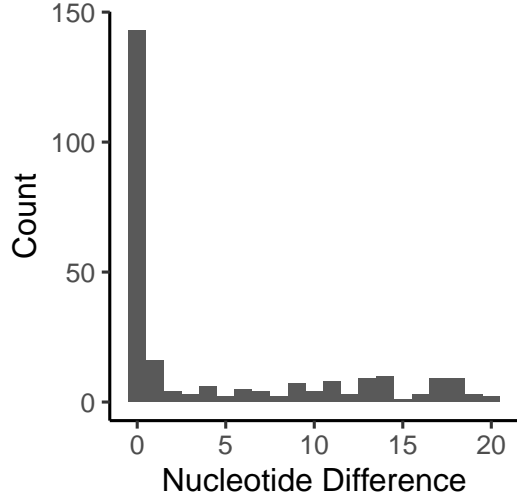
IGHV1-46*01

675 sequences assigned
304 (45%) exact matches, in which:
302 unique CDR3
7 unique J



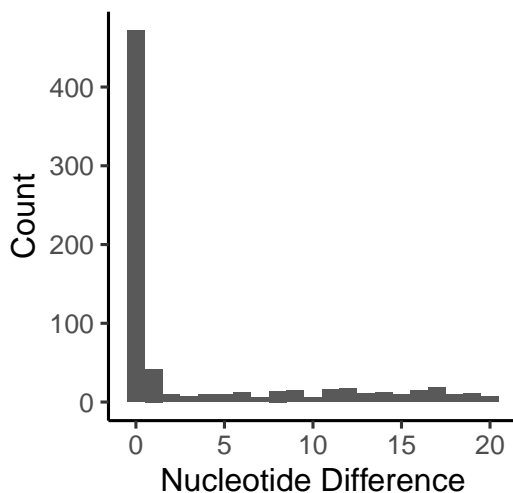
IGHV1-3*01

344 sequences assigned
143 (41.6%) exact matches, in which:
143 unique CDR3
6 unique J



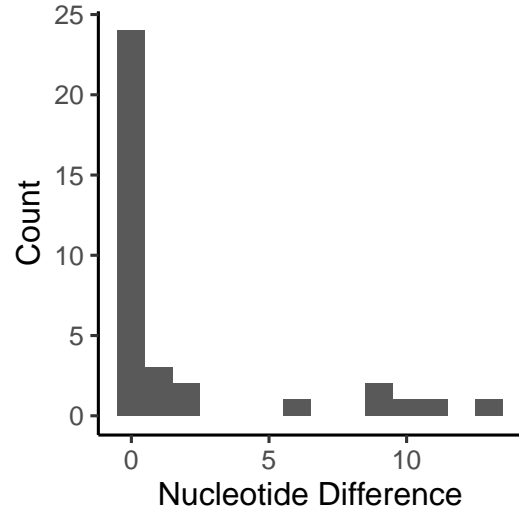
IGHV1-18*01

867 sequences assigned
472 (54.4%) exact matches, in which:
471 unique CDR3
7 unique J



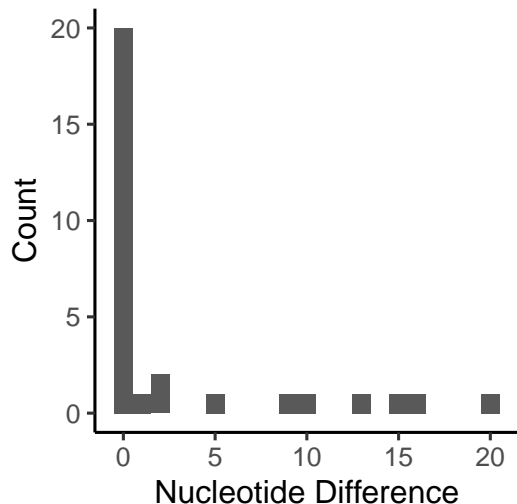
IGHV1-58*01

35 sequences assigned
24 (68.6%) exact matches, in which:
24 unique CDR3
5 unique J



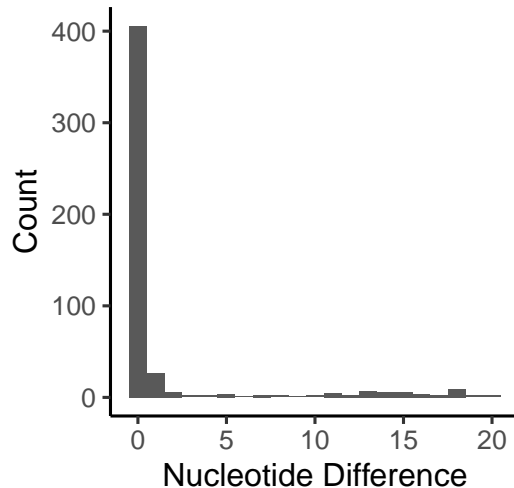
IGHV1-58*02

35 sequences assigned
20 (57.1%) exact matches, in which:
20 unique CDR3
4 unique J



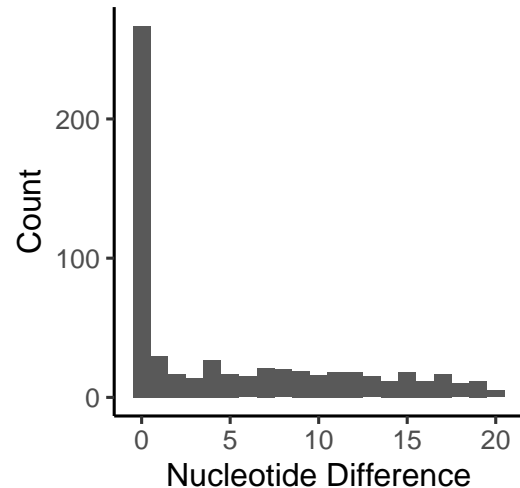
IGHV1-69*04

570 sequences assigned
406 (71.2%) exact matches, in which:
404 unique CDR3
6 unique J



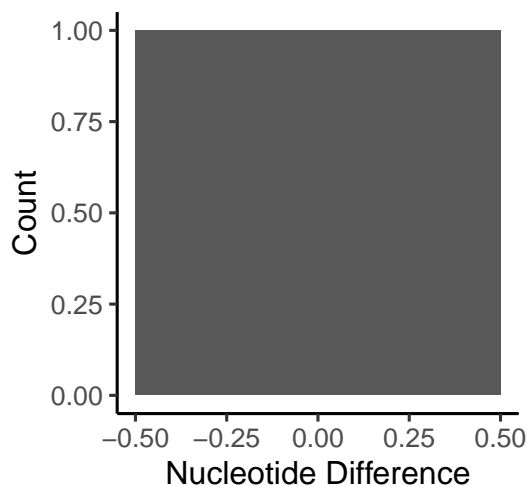
IGHV2-5*02

664 sequences assigned
267 (40.2%) exact matches, in which:
267 unique CDR3
6 unique J



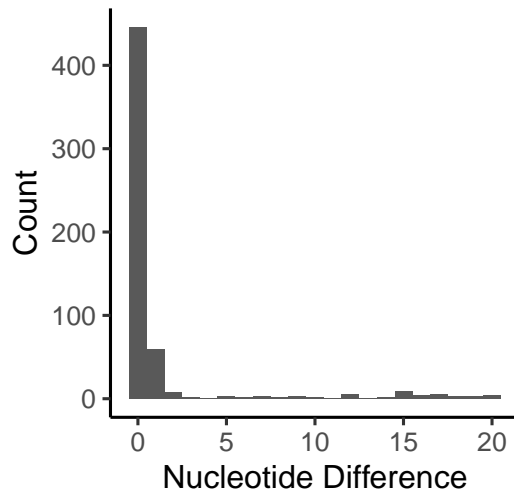
IGHV1-68*02

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



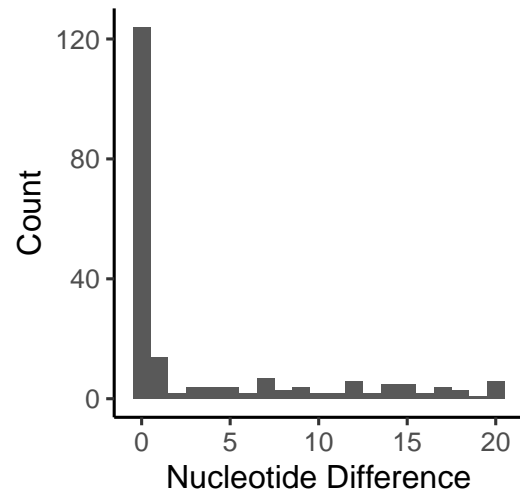
IGHV1-69*06

656 sequences assigned
446 (68%) exact matches, in which:
445 unique CDR3
7 unique J



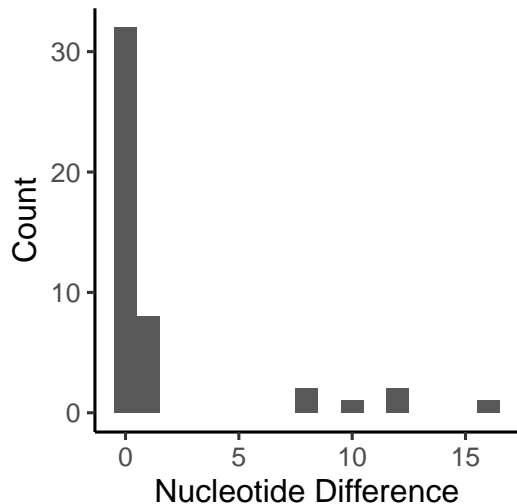
IGHV2-26*01

223 sequences assigned
124 (55.6%) exact matches, in which:
123 unique CDR3
6 unique J



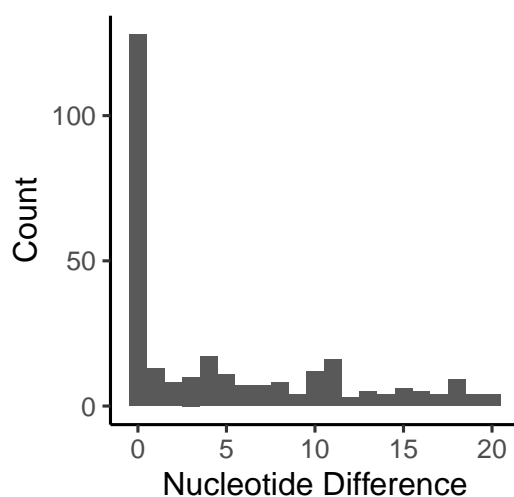
IGHV1-69-2*01

52 sequences assigned
32 (61.5%) exact matches, in which:
31 unique CDR3
5 unique J



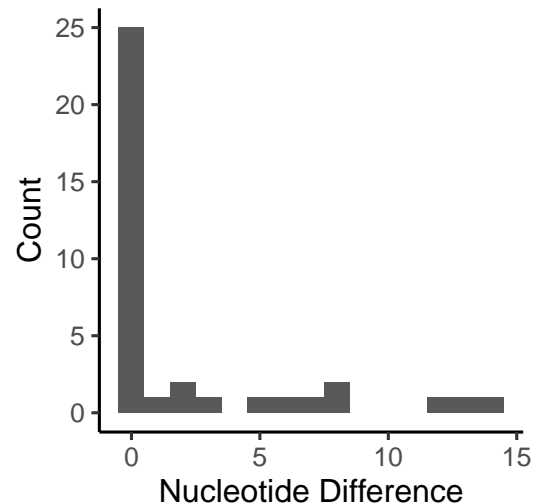
IGHV2-5*01

309 sequences assigned
128 (41.4%) exact matches, in which:
128 unique CDR3
6 unique J



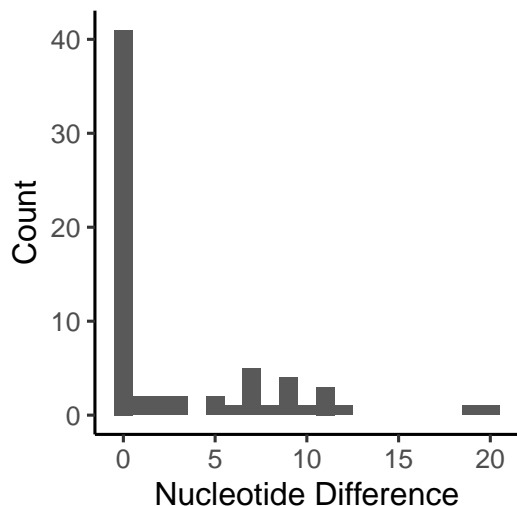
IGHV2-70*01

41 sequences assigned
25 (61%) exact matches, in which:
25 unique CDR3
4 unique J



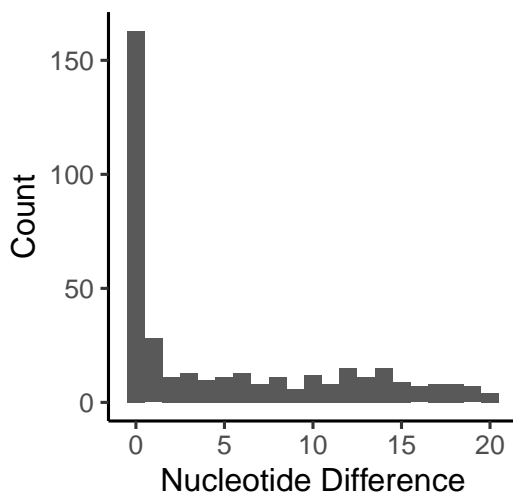
IGHV2-70*15

74 sequences assigned
41 (55.4%) exact matches, in which:
41 unique CDR3
5 unique J



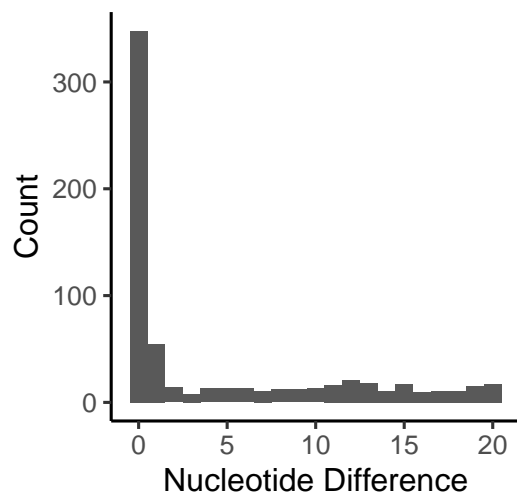
IGHV3-11*01

458 sequences assigned
163 (35.6%) exact matches, in which:
163 unique CDR3
5 unique J



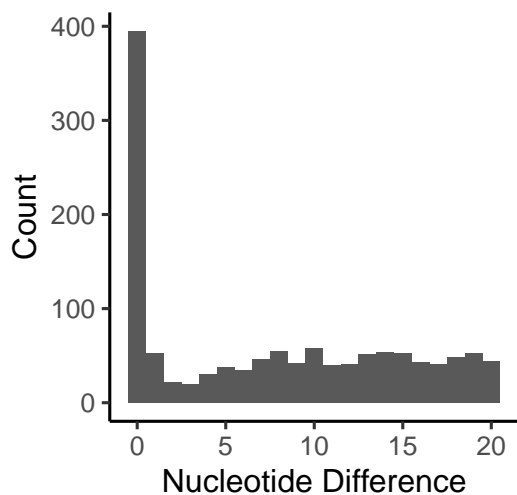
IGHV3-15*01

798 sequences assigned
348 (43.6%) exact matches, in which:
346 unique CDR3
7 unique J



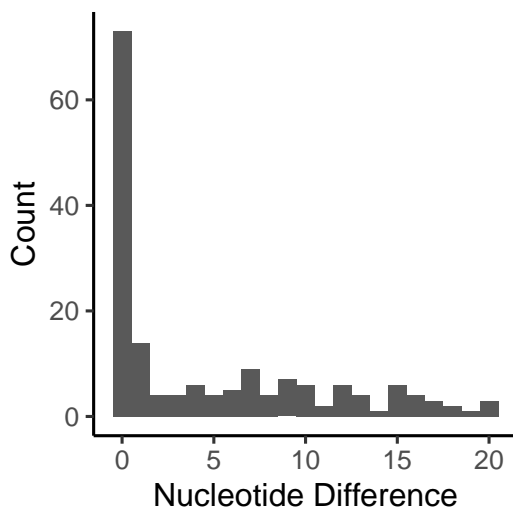
IGHV3-7*01

1632 sequences assigned
395 (24.2%) exact matches, in which:
394 unique CDR3
7 unique J



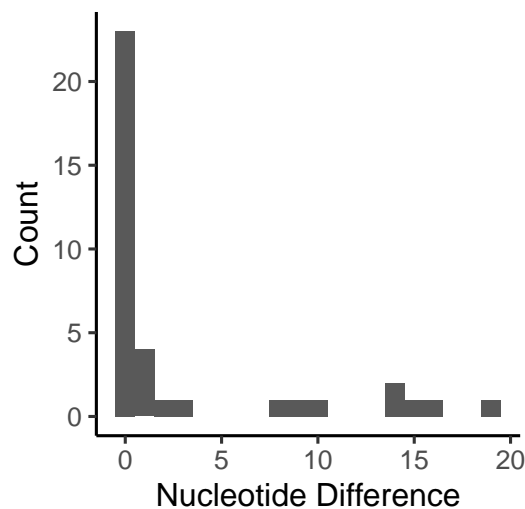
IGHV3-11*04

218 sequences assigned
73 (33.5%) exact matches, in which:
73 unique CDR3
5 unique J



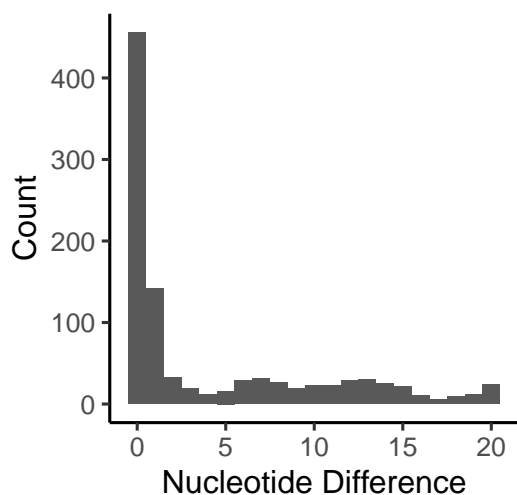
IGHV3-20*01

42 sequences assigned
23 (54.8%) exact matches, in which:
23 unique CDR3
5 unique J



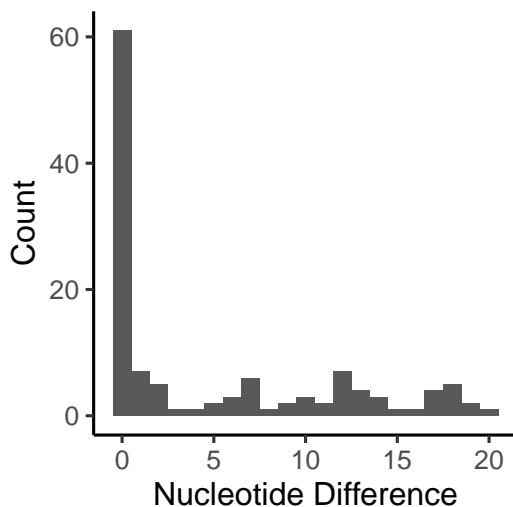
IGHV3-9*01

1123 sequences assigned
456 (40.6%) exact matches, in which:
455 unique CDR3
6 unique J



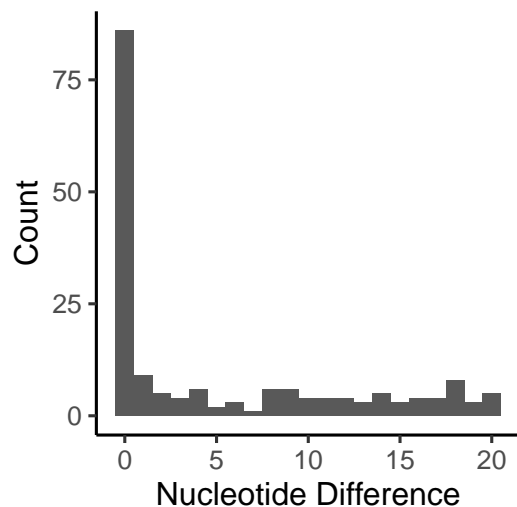
IGHV3-13*01

143 sequences assigned
61 (42.7%) exact matches, in which:
61 unique CDR3
5 unique J



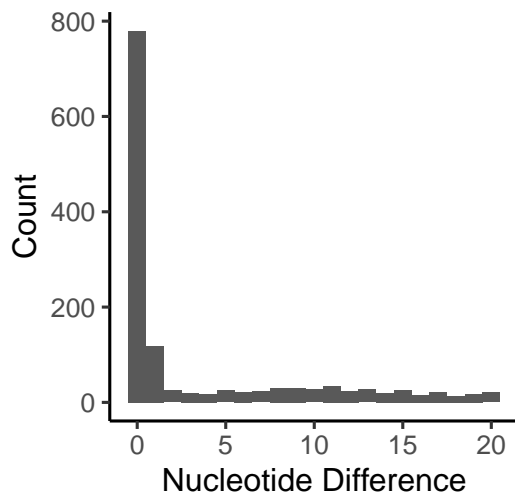
IGHV3-20*04

205 sequences assigned
86 (42%) exact matches, in which:
85 unique CDR3
5 unique J



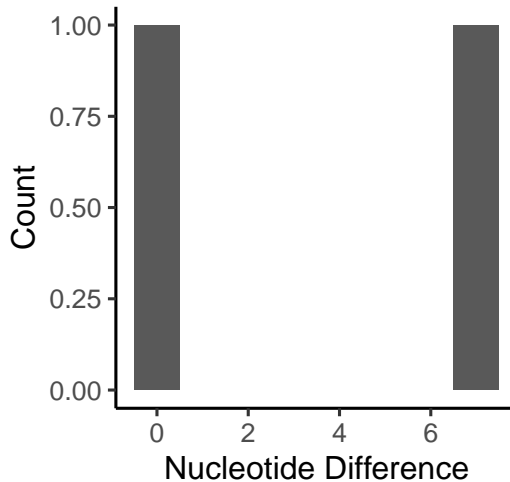
IGHV3–21*01

1514 sequences assigned
780 (51.5%) exact matches, in which:
778 unique CDR3
7 unique J



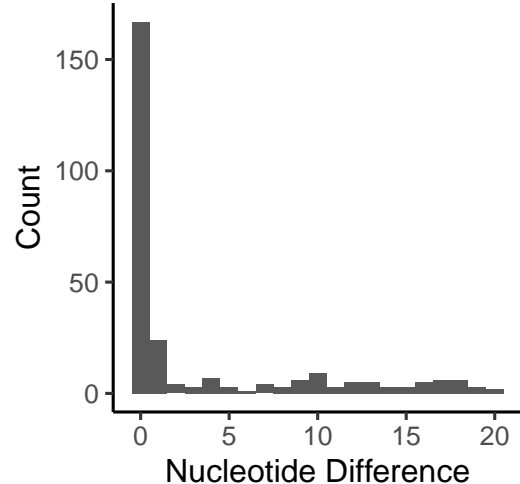
IGHV3–35*01

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



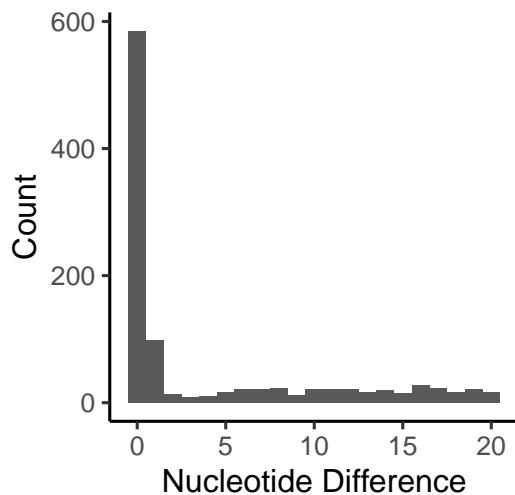
IGHV3–43*02

327 sequences assigned
167 (51.1%) exact matches, in which:
167 unique CDR3
5 unique J



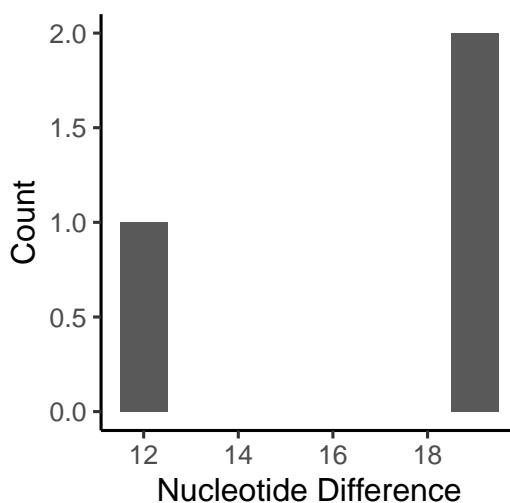
IGHV3–30–3*01

1207 sequences assigned
585 (48.5%) exact matches, in which:
581 unique CDR3
6 unique J



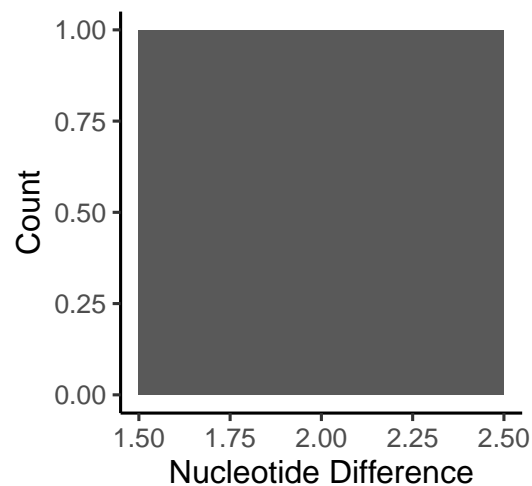
IGHV3–41*02

3 sequences assigned
No exact matches.



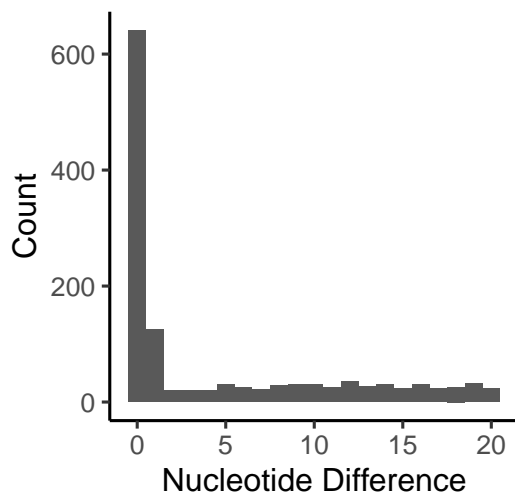
IGHV3–47*02

1 sequences assigned
No exact matches.



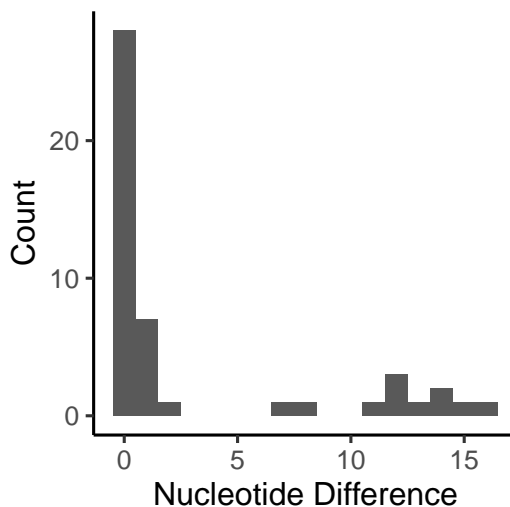
IGHV3–33*01

1528 sequences assigned
641 (42%) exact matches, in which:
640 unique CDR3
7 unique J



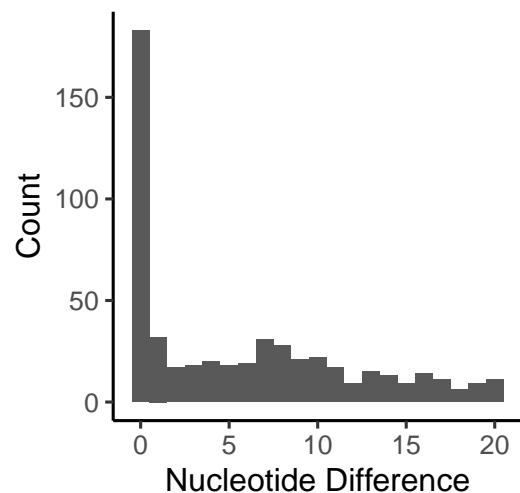
IGHV3–43*01

52 sequences assigned
28 (53.8%) exact matches, in which:
27 unique CDR3
4 unique J



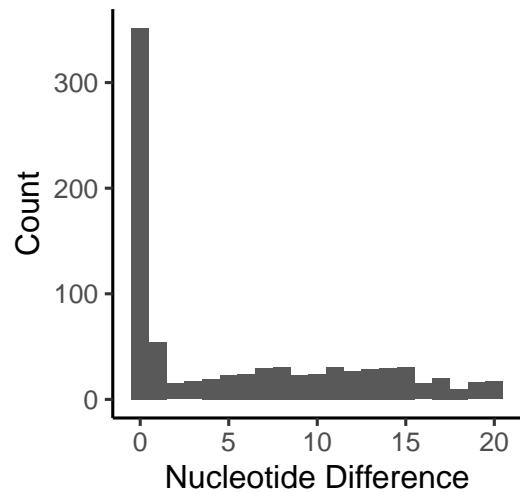
IGHV3–48*02

646 sequences assigned
183 (28.3%) exact matches, in which:
181 unique CDR3
6 unique J



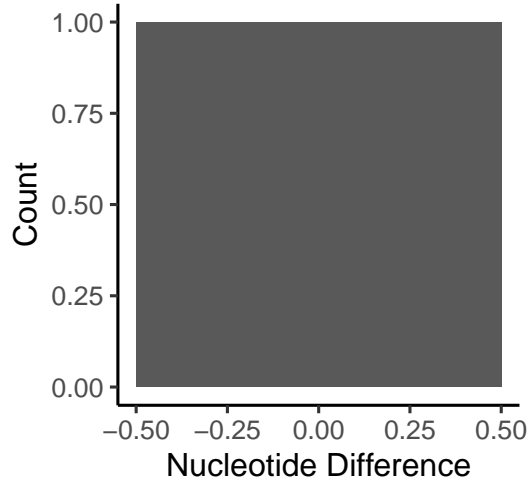
IGHV3-48*03

972 sequences assigned
352 (36.2%) exact matches, in which:
352 unique CDR3
6 unique J



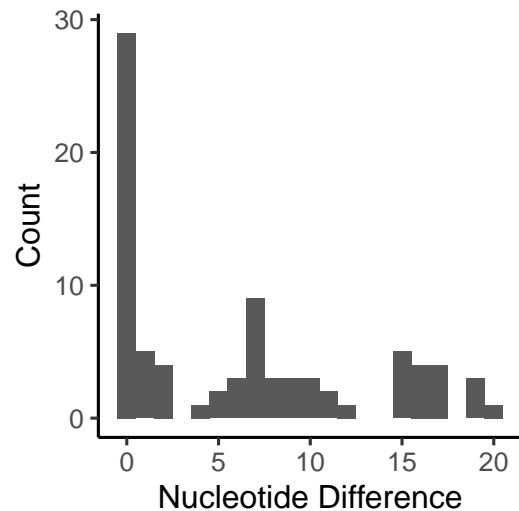
IGHV3-52*01

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



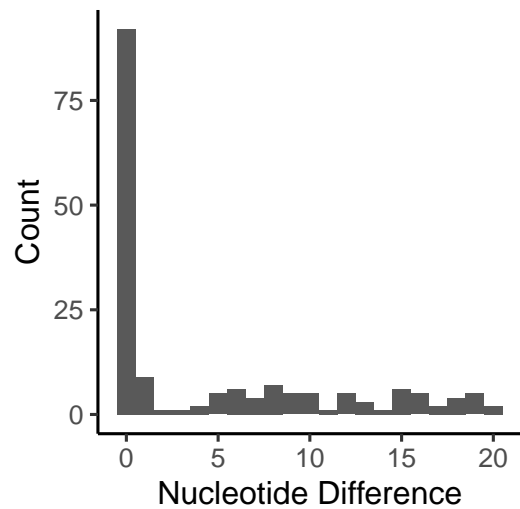
IGHV3-64*01

89 sequences assigned
29 (32.6%) exact matches, in which:
29 unique CDR3
5 unique J



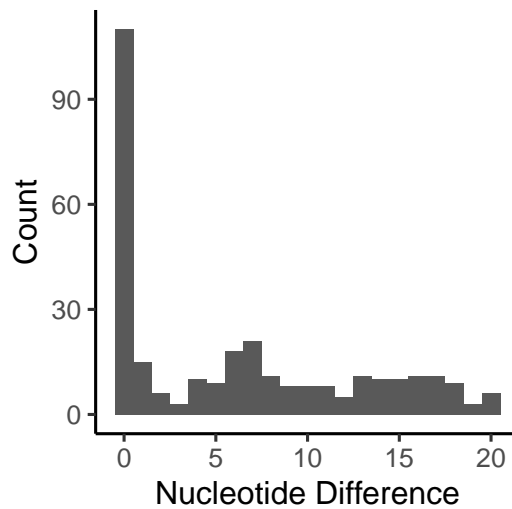
IGHV3-49*04

195 sequences assigned
92 (47.2%) exact matches, in which:
91 unique CDR3
5 unique J



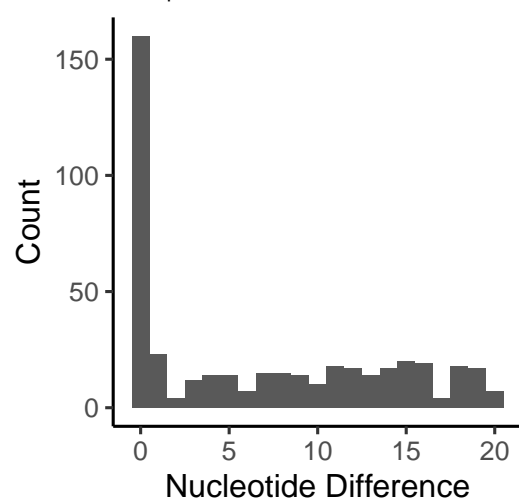
IGHV3-53*01

411 sequences assigned
110 (26.8%) exact matches, in which:
110 unique CDR3
6 unique J



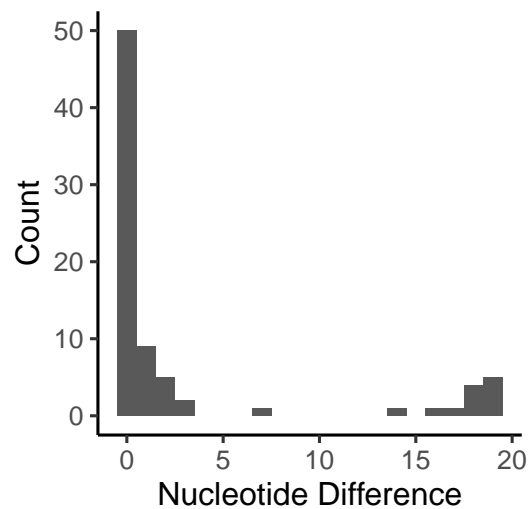
IGHV3-66*01

563 sequences assigned
160 (28.4%) exact matches, in which:
159 unique CDR3
6 unique J



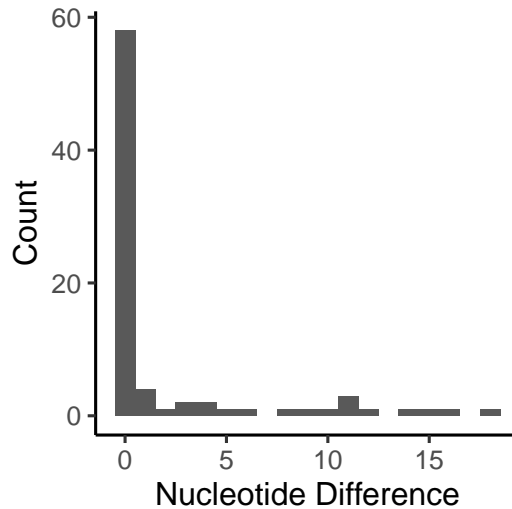
IGHV3-49*05

104 sequences assigned
50 (48.1%) exact matches, in which:
50 unique CDR3
6 unique J



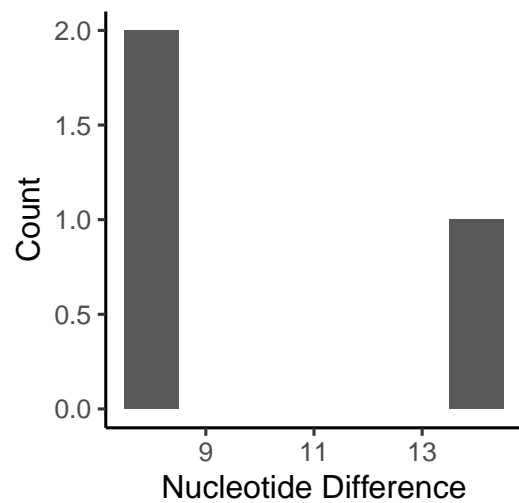
IGHV3-53*04

87 sequences assigned
58 (66.7%) exact matches, in which:
58 unique CDR3
5 unique J



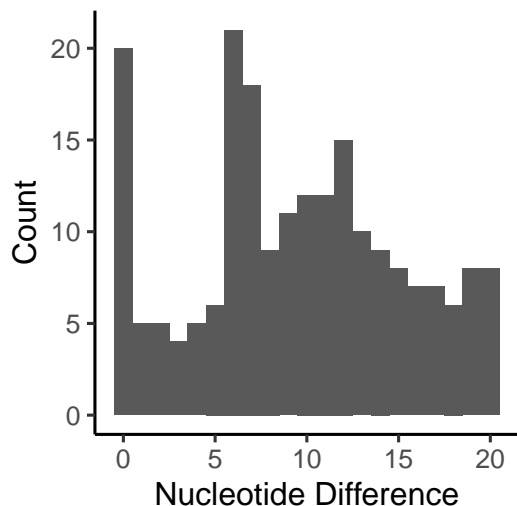
IGHV3-69-1*01

6 sequences assigned
No exact matches.



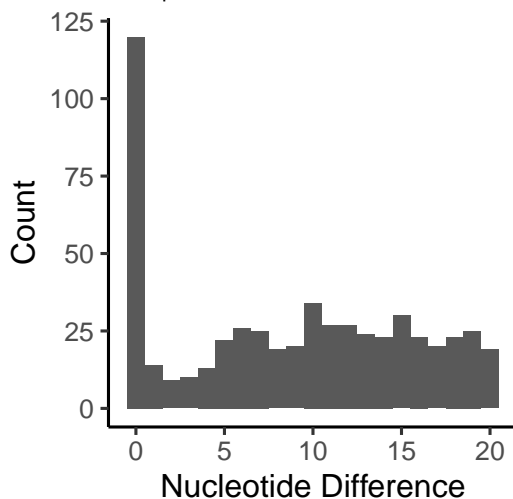
IGHV3-72*01

267 sequences assigned
20 (7.5%) exact matches, in which:
20 unique CDR3
6 unique J



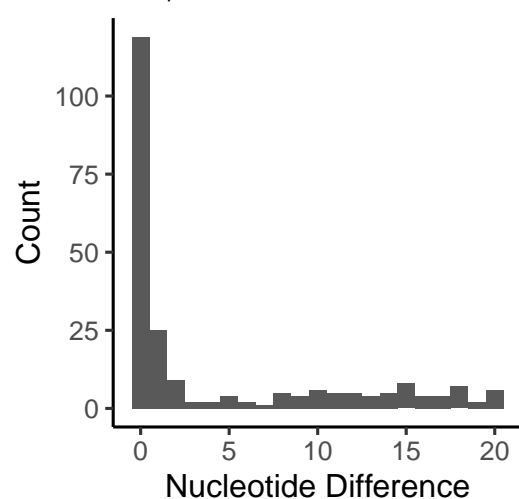
IGHV3-74*01

732 sequences assigned
120 (16.4%) exact matches, in which:
118 unique CDR3
7 unique J



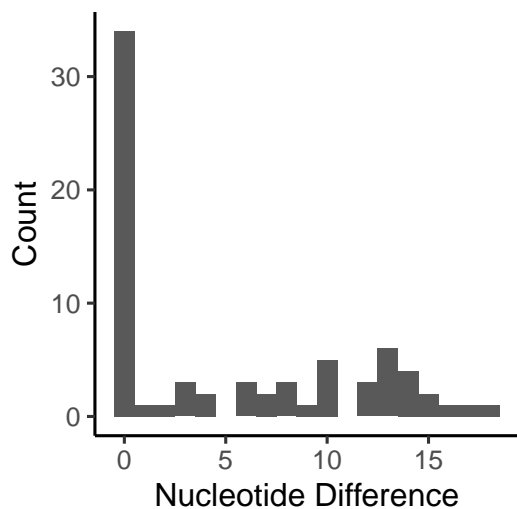
IGHV4-4*07

284 sequences assigned
119 (41.9%) exact matches, in which:
116 unique CDR3
6 unique J



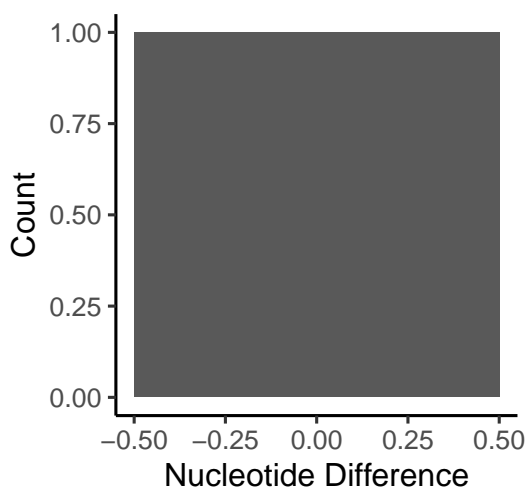
IGHV3-73*01

88 sequences assigned
34 (38.6%) exact matches, in which:
34 unique CDR3
4 unique J



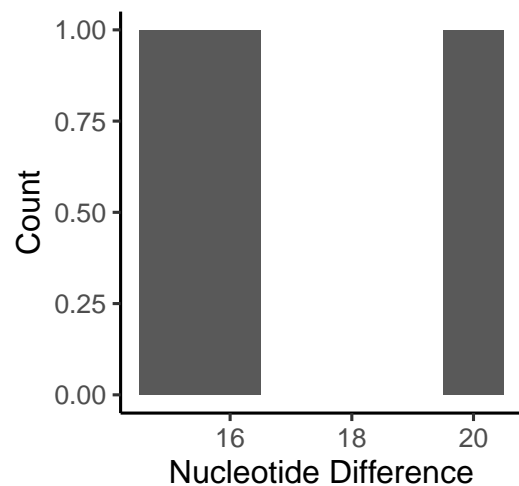
IGHV3-64D*06

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



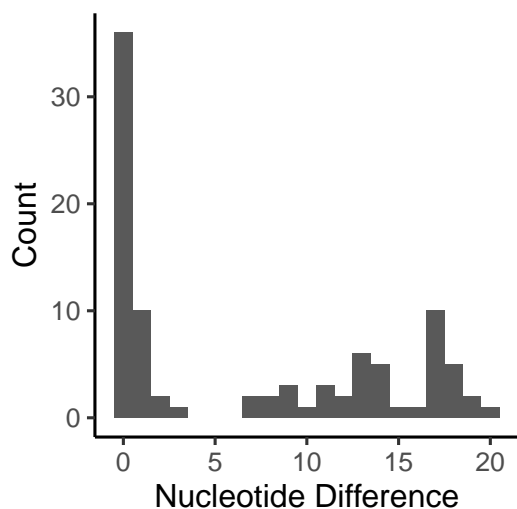
IGHV4-28*01

3 sequences assigned
No exact matches.



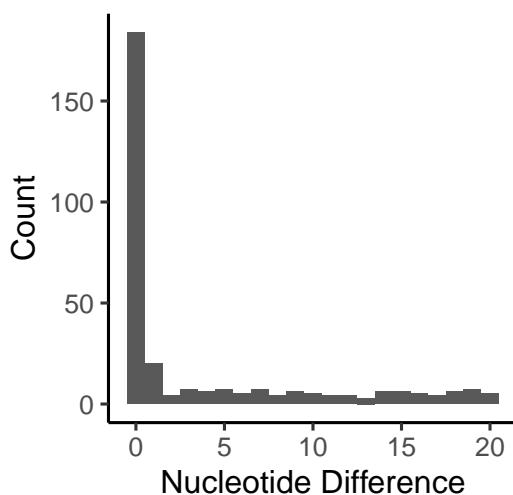
IGHV3-73*02

108 sequences assigned
36 (33.3%) exact matches, in which:
36 unique CDR3
5 unique J



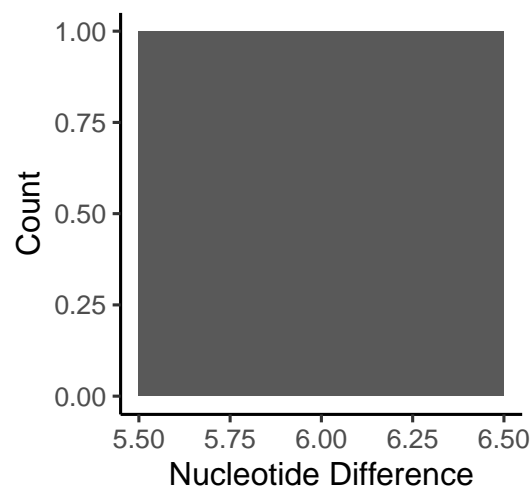
IGHV4-4*02

372 sequences assigned
184 (49.5%) exact matches, in which:
184 unique CDR3
6 unique J



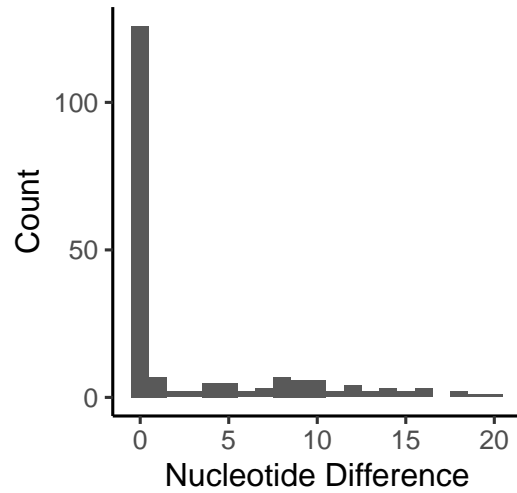
IGHV4-28*07

1 sequences assigned
No exact matches.



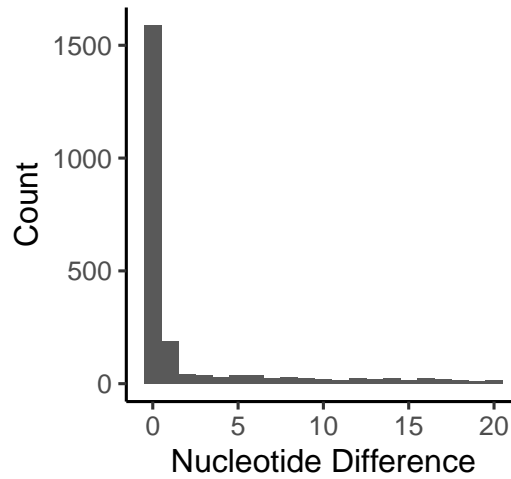
IGHV4-30-4*01

239 sequences assigned
126 (52.7%) exact matches, in which:
125 unique CDR3
6 unique J



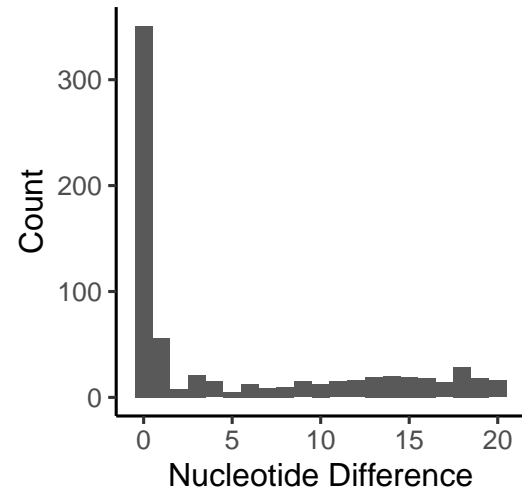
IGHV4-34*01

2398 sequences assigned
1588 (66.2%) exact matches, in which:
1576 unique CDR3
7 unique J



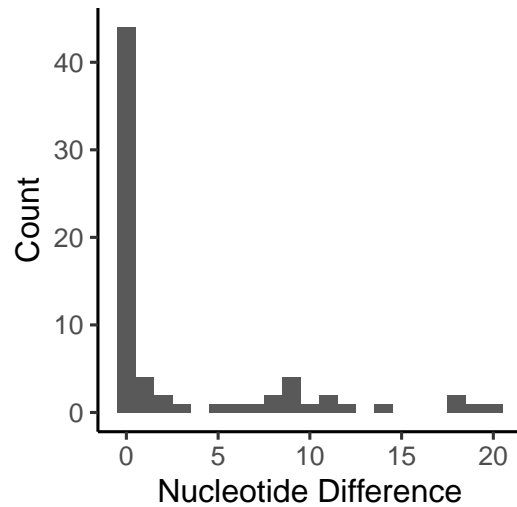
IGHV4-59*01

876 sequences assigned
351 (40.1%) exact matches, in which:
351 unique CDR3
7 unique J



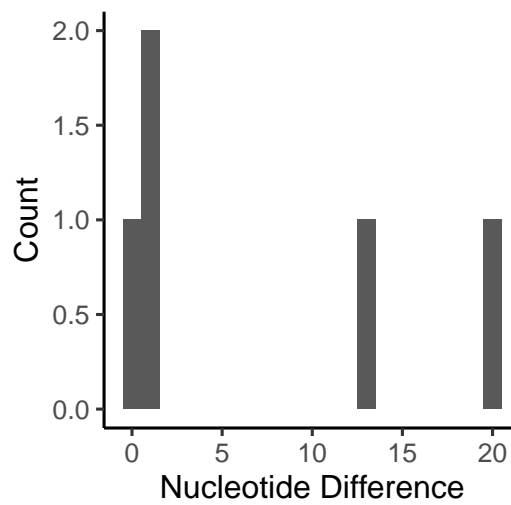
IGHV4-30-2*01

74 sequences assigned
44 (59.5%) exact matches, in which:
44 unique CDR3
5 unique J



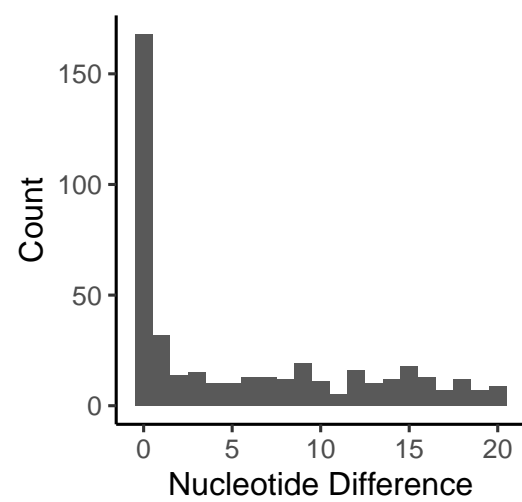
IGHV4-38-2*02

8 sequences assigned
1 (12.5%) exact matches, in which:
1 unique CDR3
1 unique J



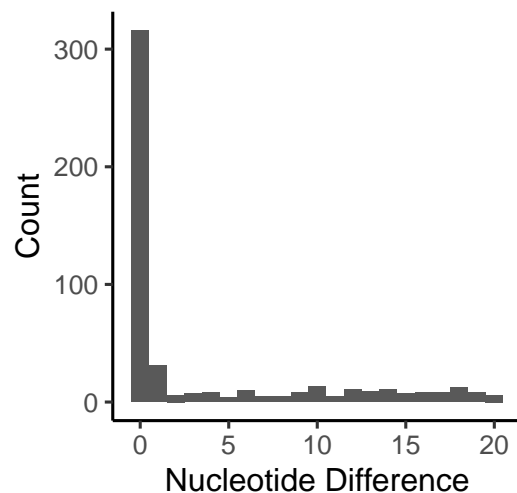
IGHV4-59*08

497 sequences assigned
168 (33.8%) exact matches, in which:
166 unique CDR3
6 unique J



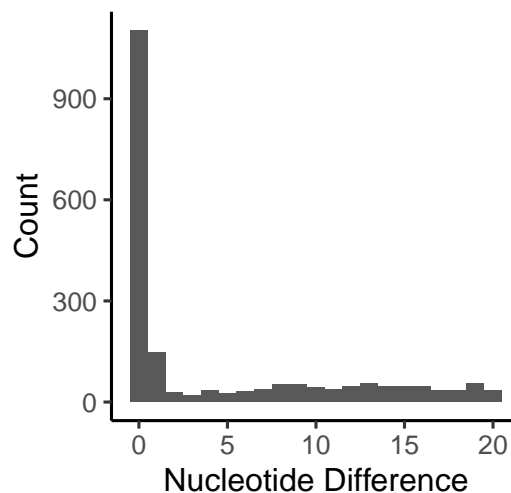
IGHV4-31*03

589 sequences assigned
316 (53.7%) exact matches, in which:
316 unique CDR3
7 unique J



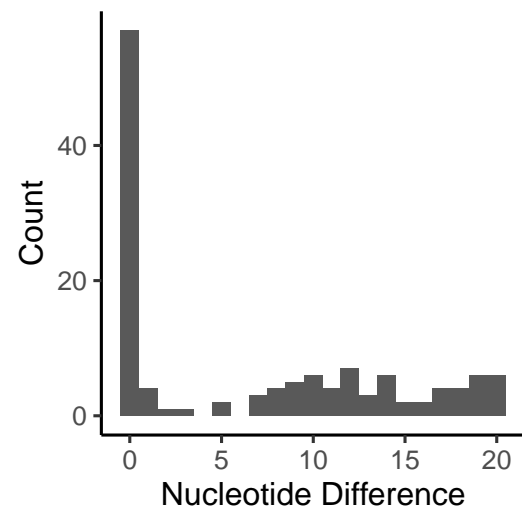
IGHV4-39*01

2408 sequences assigned
1103 (45.8%) exact matches, in which:
1100 unique CDR3
7 unique J



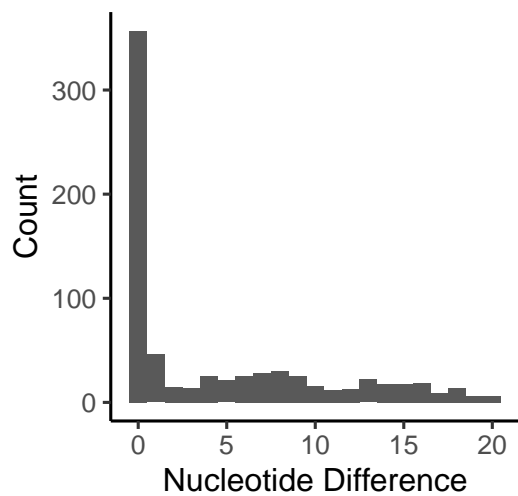
IGHV4-61*01

148 sequences assigned
57 (38.5%) exact matches, in which:
57 unique CDR3
6 unique J



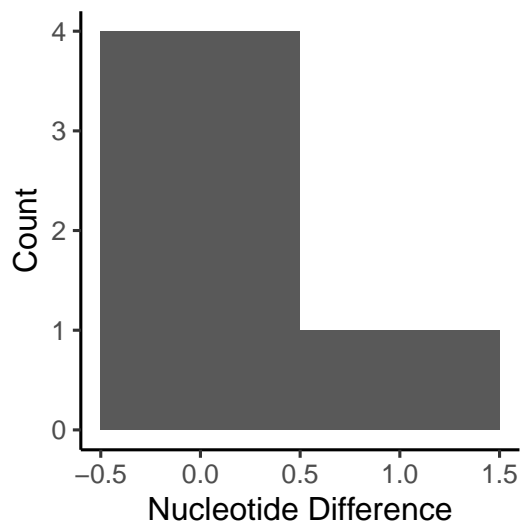
IGHV5-51*01

861 sequences assigned
357 (41.5%) exact matches, in which:
354 unique CDR3
7 unique J



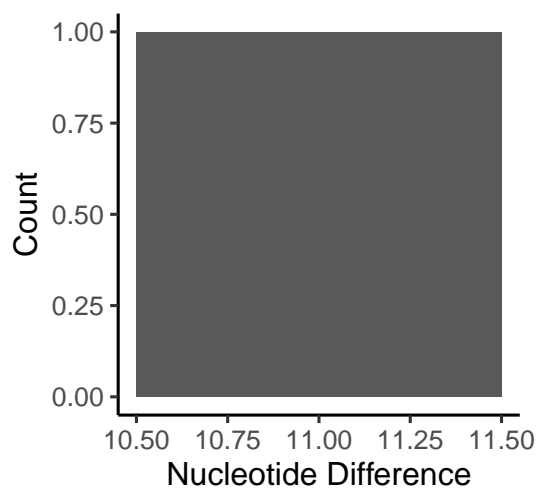
IGHV7-4-1*01

5 sequences assigned
4 (80%) exact matches, in which:
4 unique CDR3
3 unique J



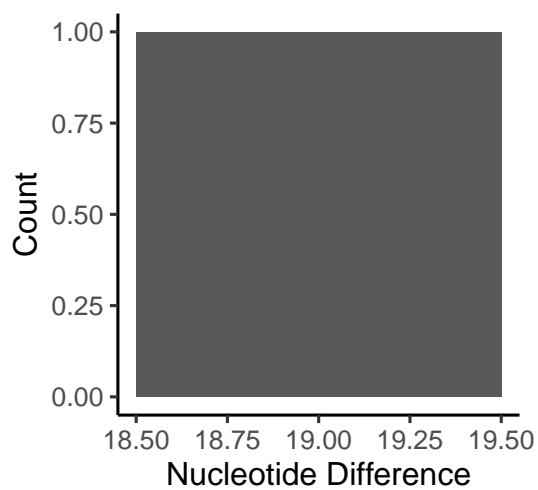
IGHV5-78*01

1 sequences assigned
No exact matches.



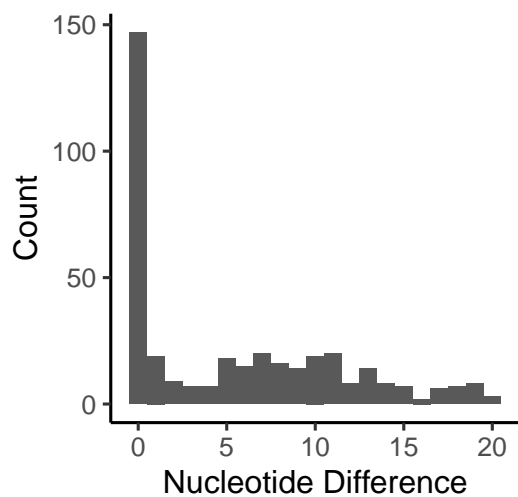
IGHV7-4-1*02

1 sequences assigned
No exact matches.

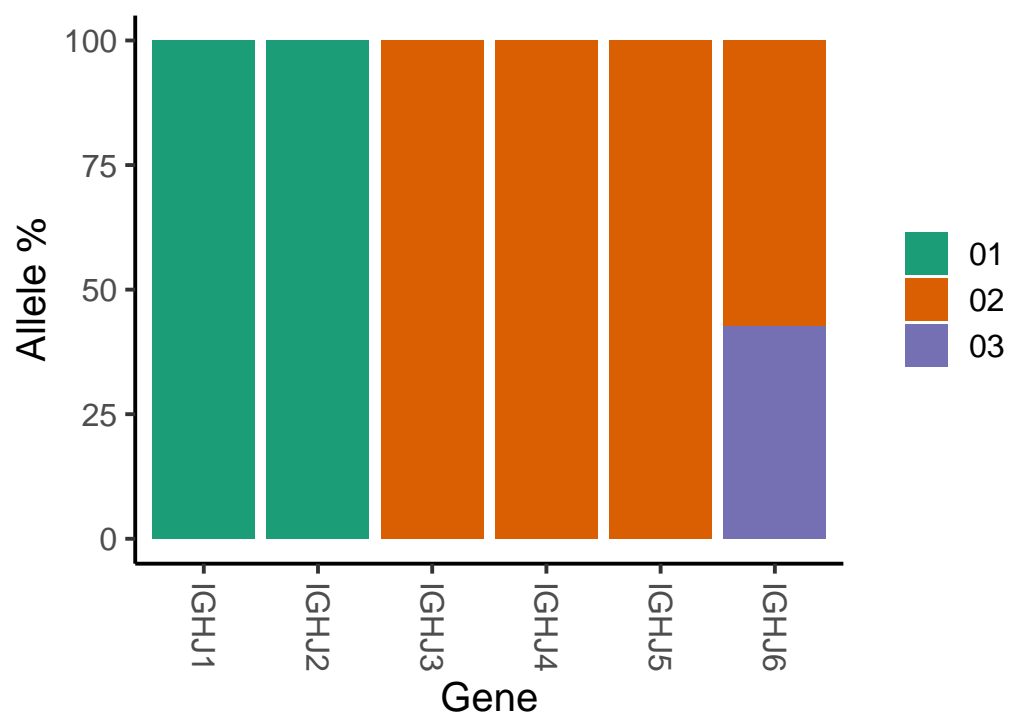


IGHV6-1*01

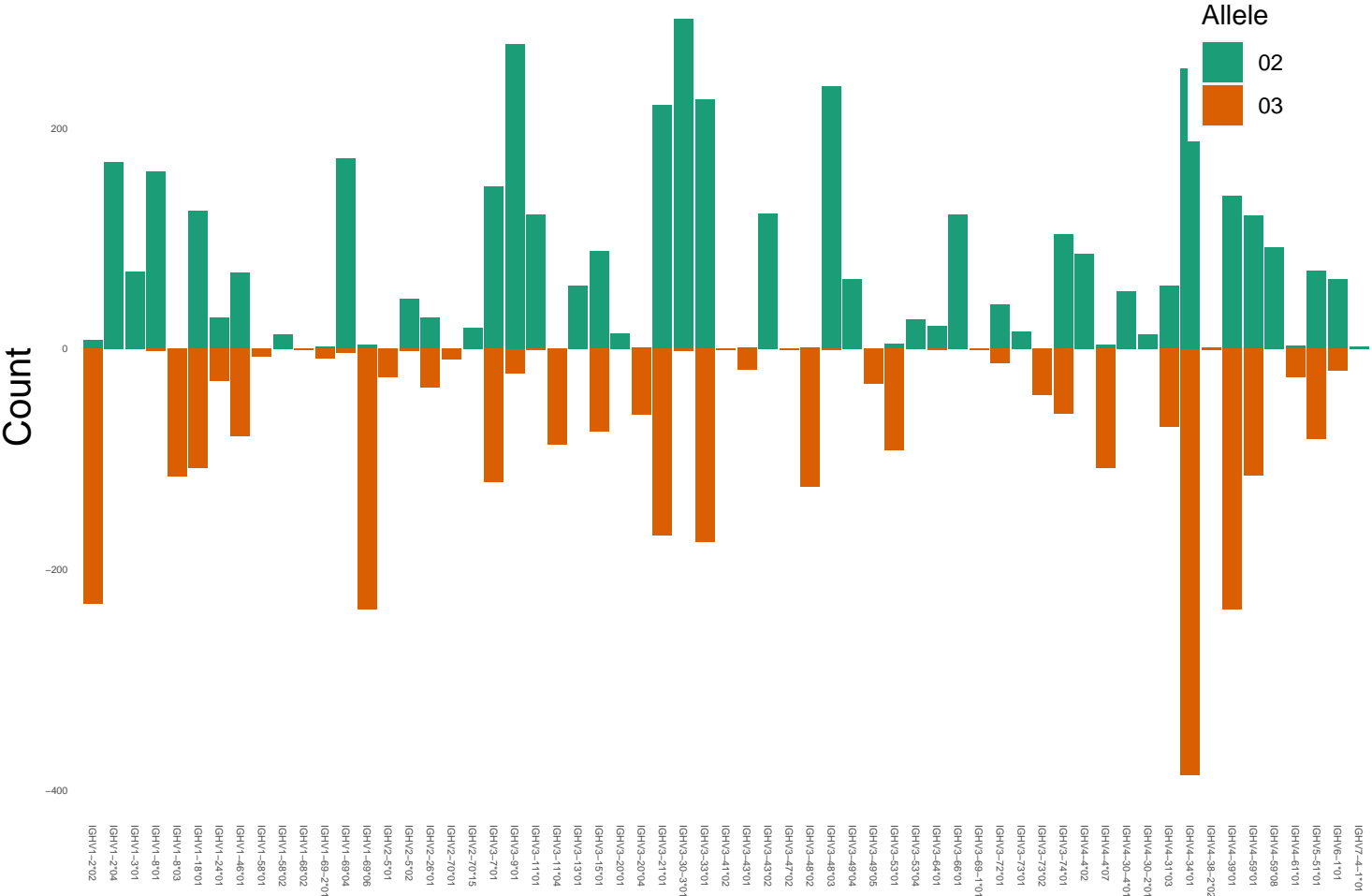
399 sequences assigned
147 (36.8%) exact matches, in which:
147 unique CDR3
7 unique J



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.