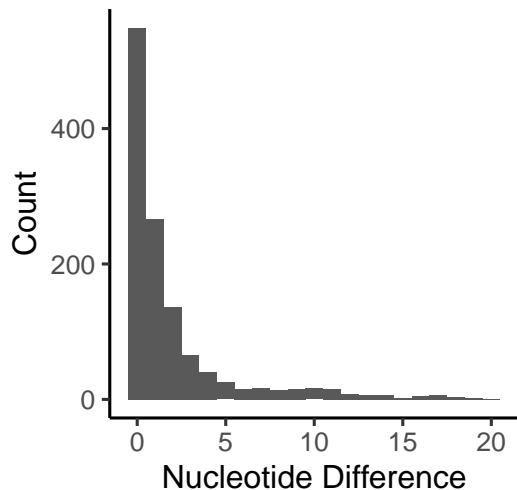


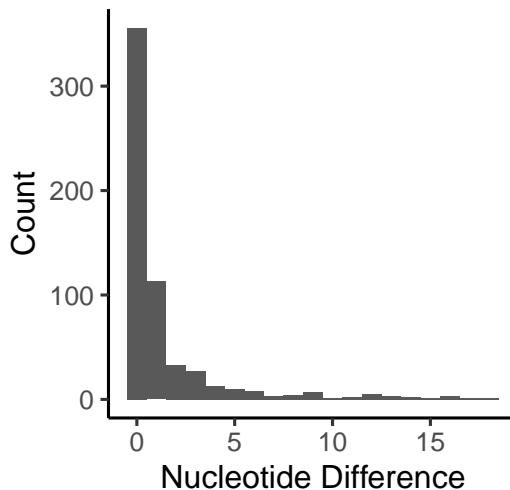
IGHV1-2*02

1228 sequences assigned
549 (44.7%) exact matches, in which:
461 unique CDR3
6 unique J



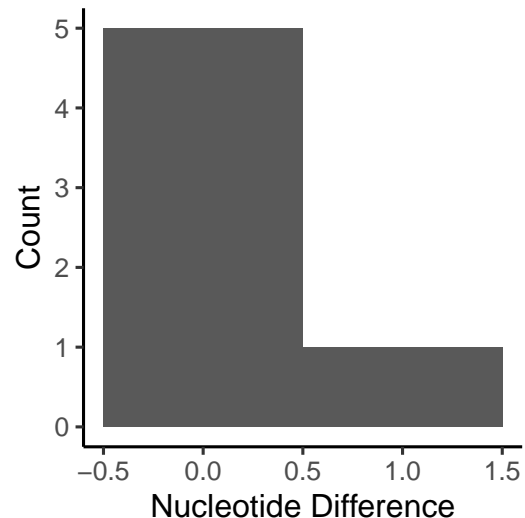
IGHV1-18*01

594 sequences assigned
356 (59.9%) exact matches, in which:
318 unique CDR3
6 unique J



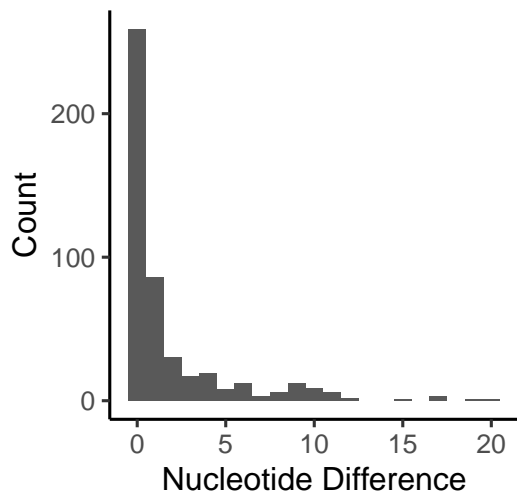
IGHV1-45*02

6 sequences assigned
5 (83.3%) exact matches, in which:
4 unique CDR3
3 unique J



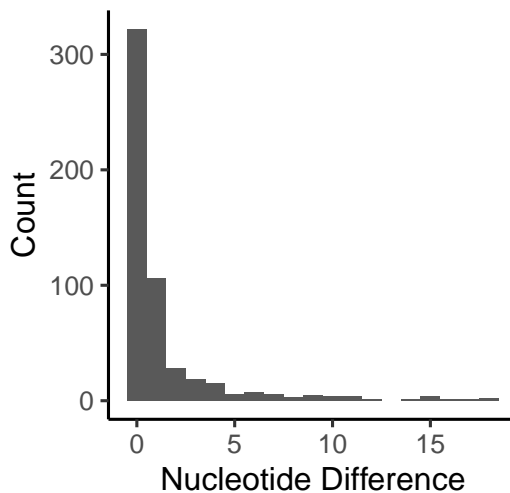
IGHV1-3*01

482 sequences assigned
259 (53.7%) exact matches, in which:
225 unique CDR3
6 unique J



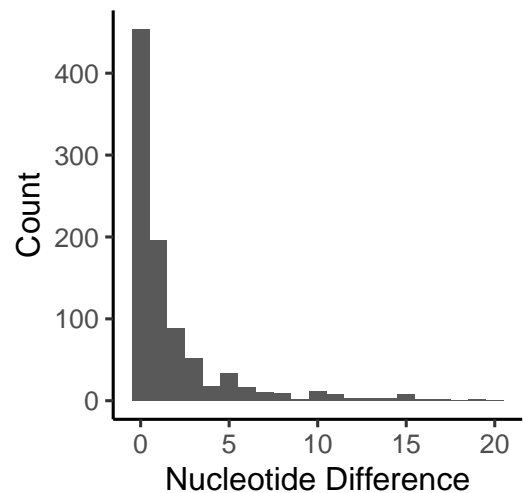
IGHV1-18*04

535 sequences assigned
322 (60.2%) exact matches, in which:
282 unique CDR3
6 unique J



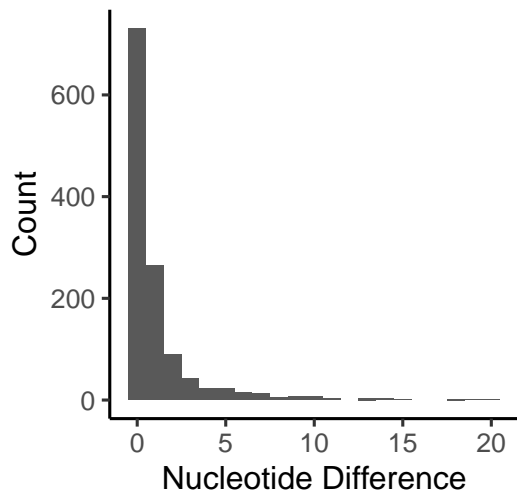
IGHV1-46*01

930 sequences assigned
454 (48.8%) exact matches, in which:
398 unique CDR3
6 unique J



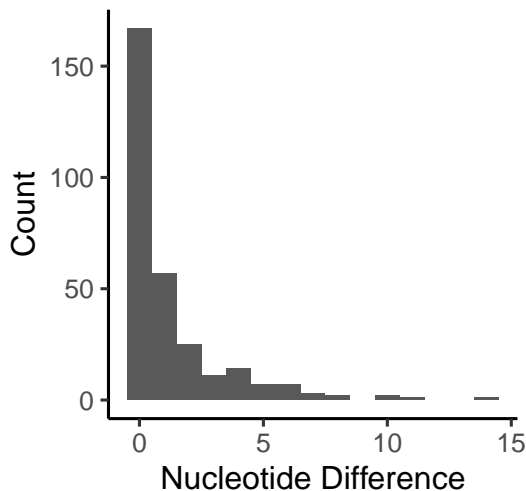
IGHV1-8*01

1231 sequences assigned
731 (59.4%) exact matches, in which:
604 unique CDR3
6 unique J



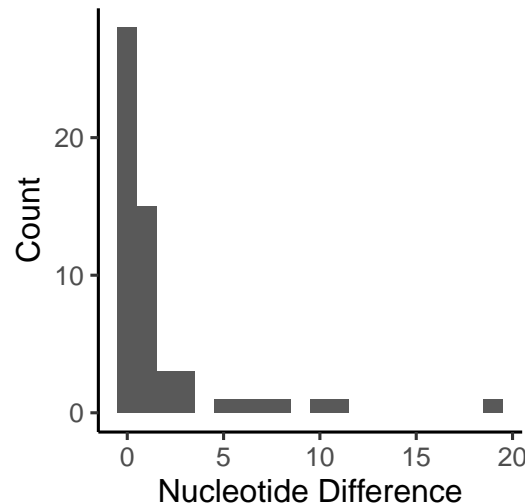
IGHV1-24*01

297 sequences assigned
167 (56.2%) exact matches, in which:
145 unique CDR3
5 unique J



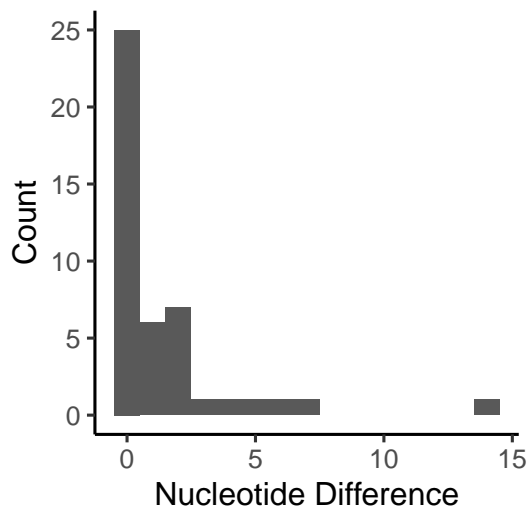
IGHV1-58*01

57 sequences assigned
28 (49.1%) exact matches, in which:
26 unique CDR3
6 unique J



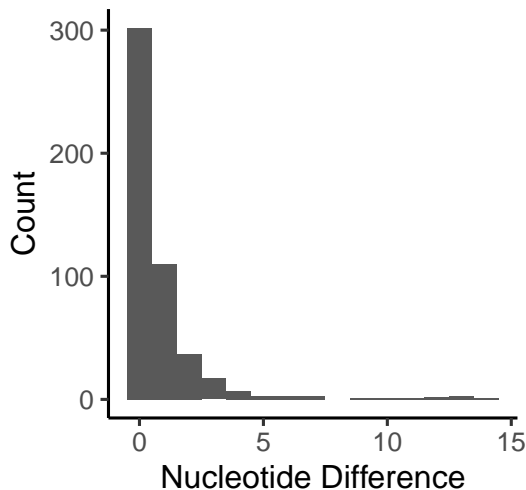
IGHV1-58*02

44 sequences assigned
25 (56.8%) exact matches, in which:
19 unique CDR3
4 unique J



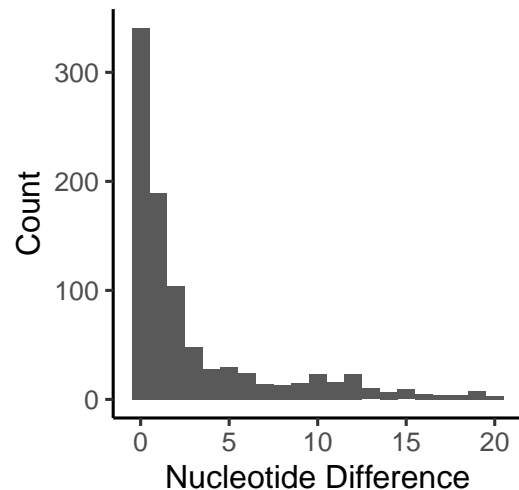
IGHV1-69*08_C191T

491 sequences assigned
302 (61.5%) exact matches, in which:
241 unique CDR3
6 unique J



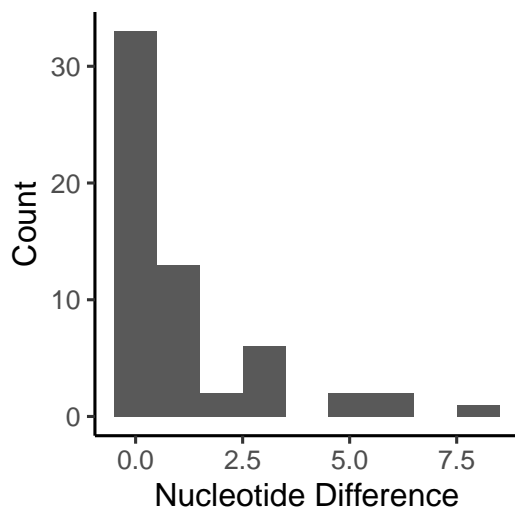
IGHV3-7*01

929 sequences assigned
341 (36.7%) exact matches, in which:
307 unique CDR3
6 unique J



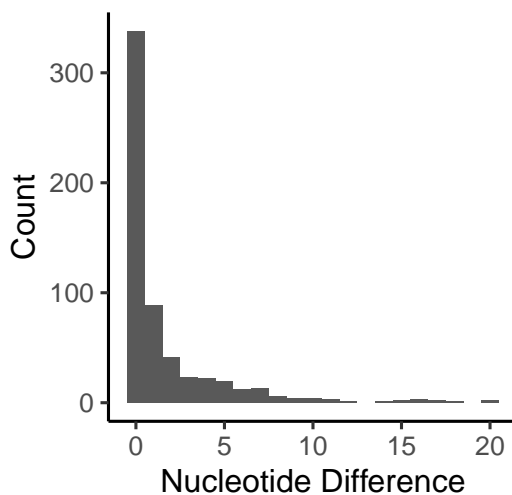
IGHV1-69-2*01

59 sequences assigned
33 (55.9%) exact matches, in which:
28 unique CDR3
4 unique J



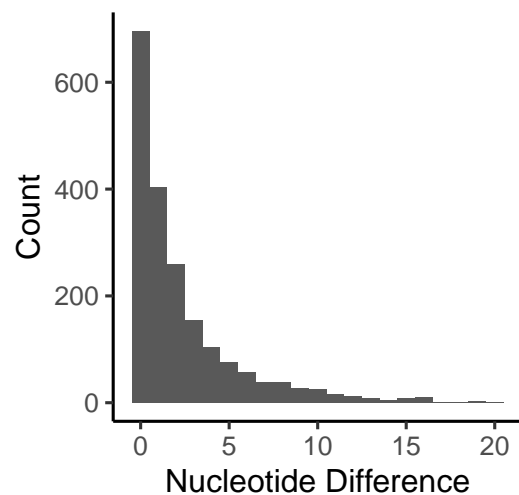
IGHV2-5*01

588 sequences assigned
338 (57.5%) exact matches, in which:
304 unique CDR3
5 unique J



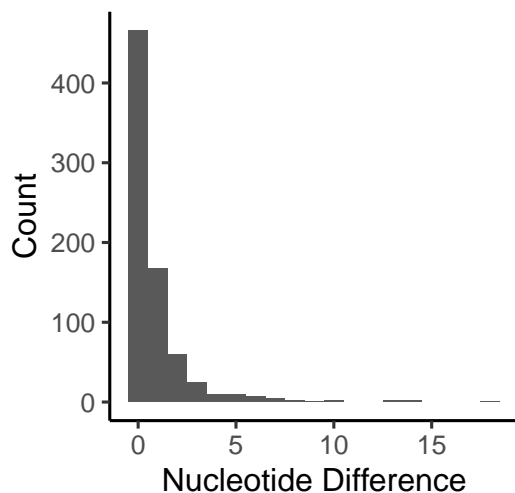
IGHV3-9*01

1948 sequences assigned
696 (35.7%) exact matches, in which:
574 unique CDR3
6 unique J



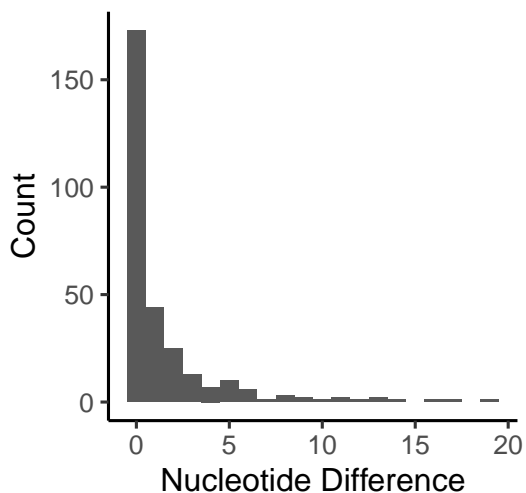
IGHV1-69*06

760 sequences assigned
466 (61.3%) exact matches, in which:
373 unique CDR3
5 unique J



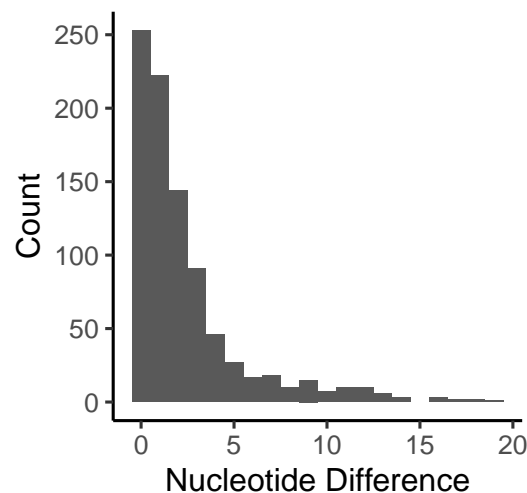
IGHV2-26*01

294 sequences assigned
173 (58.8%) exact matches, in which:
159 unique CDR3
6 unique J



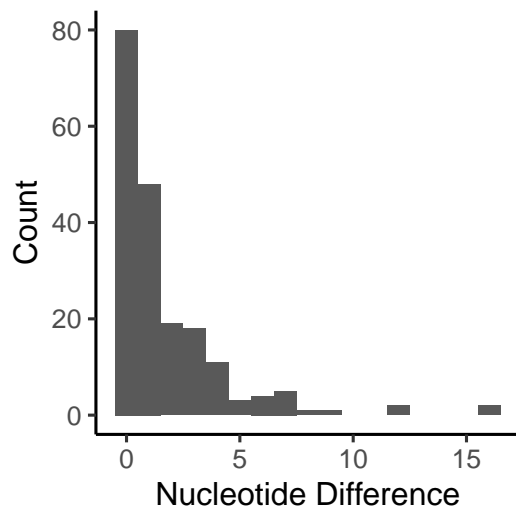
IGHV3-11*01

891 sequences assigned
253 (28.4%) exact matches, in which:
225 unique CDR3
6 unique J



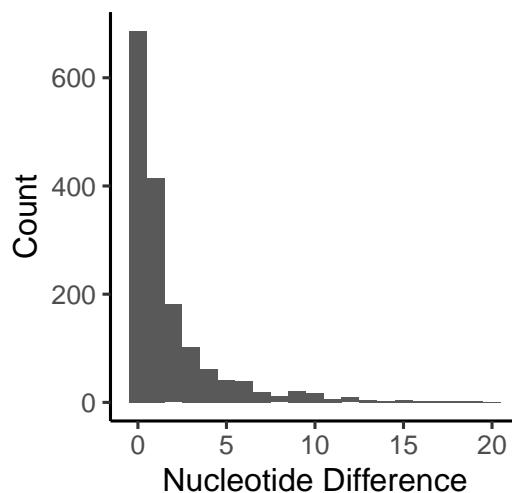
IGHV3-13*01

194 sequences assigned
80 (41.2%) exact matches, in which:
63 unique CDR3
5 unique J



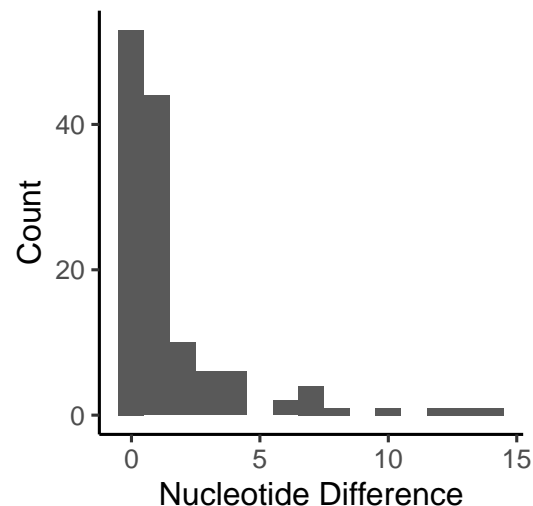
IGHV3-21*01

1644 sequences assigned
687 (41.8%) exact matches, in which:
589 unique CDR3
6 unique J



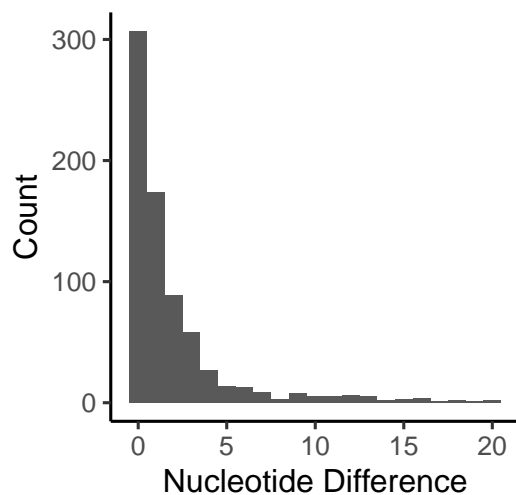
IGHV3-43*01

130 sequences assigned
53 (40.8%) exact matches, in which:
47 unique CDR3
5 unique J



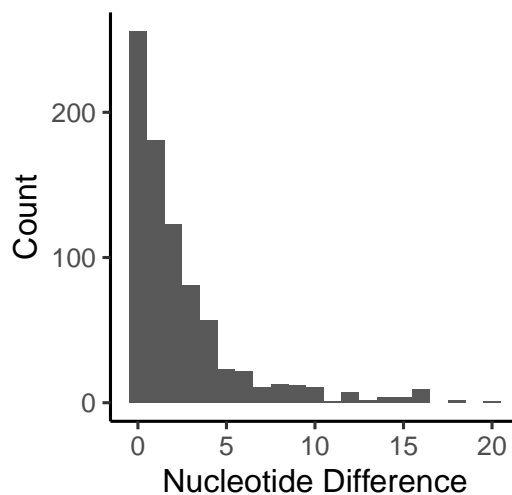
IGHV3-15*01

744 sequences assigned
307 (41.3%) exact matches, in which:
264 unique CDR3
5 unique J



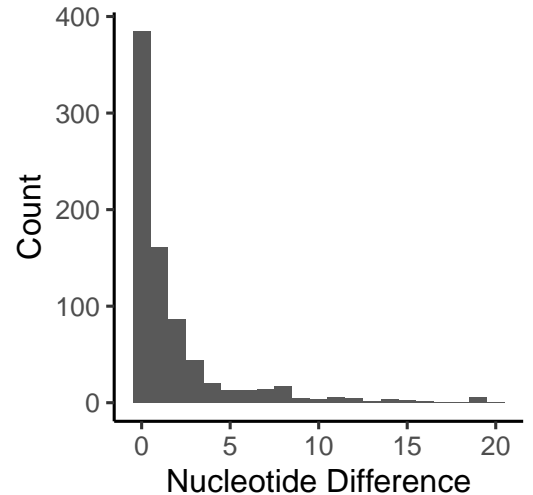
IGHV3-30-3*01

824 sequences assigned
256 (31.1%) exact matches, in which:
226 unique CDR3
6 unique J



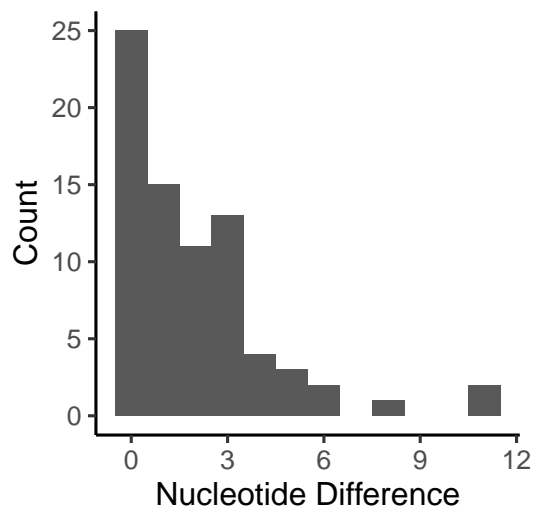
IGHV3-48*02

795 sequences assigned
385 (48.4%) exact matches, in which:
336 unique CDR3
6 unique J



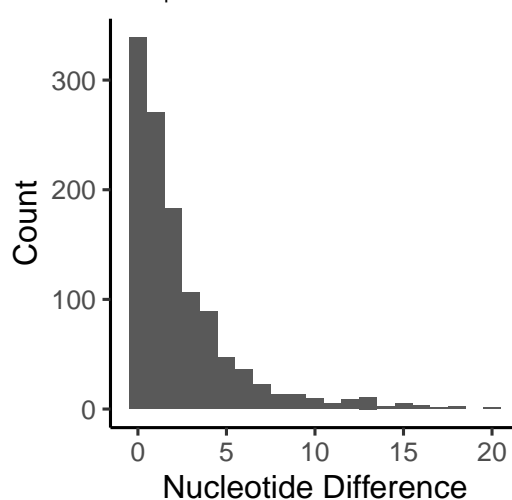
IGHV3-20*01

76 sequences assigned
25 (32.9%) exact matches, in which:
24 unique CDR3
4 unique J



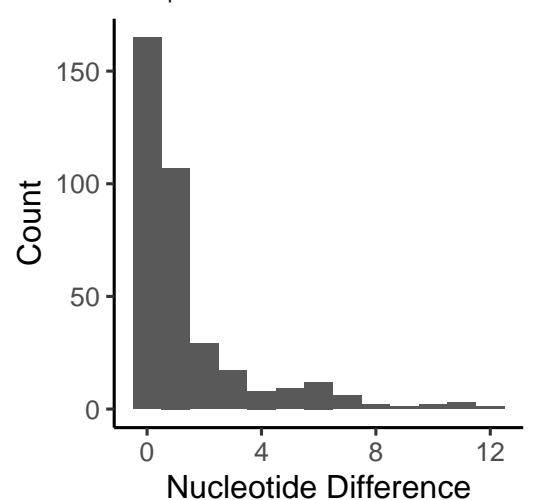
IGHV3-33*01

1175 sequences assigned
339 (28.9%) exact matches, in which:
304 unique CDR3
6 unique J



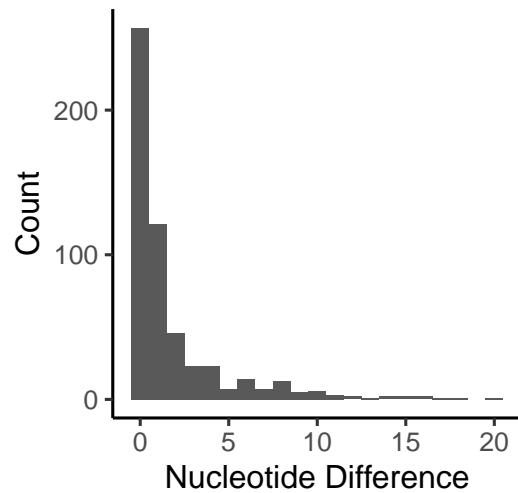
IGHV3-49*05

364 sequences assigned
165 (45.3%) exact matches, in which:
144 unique CDR3
6 unique J



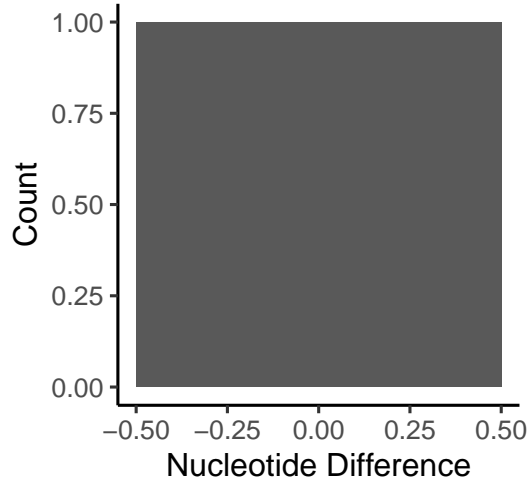
IGHV3-53*01

541 sequences assigned
257 (47.5%) exact matches, in which:
215 unique CDR3
6 unique J



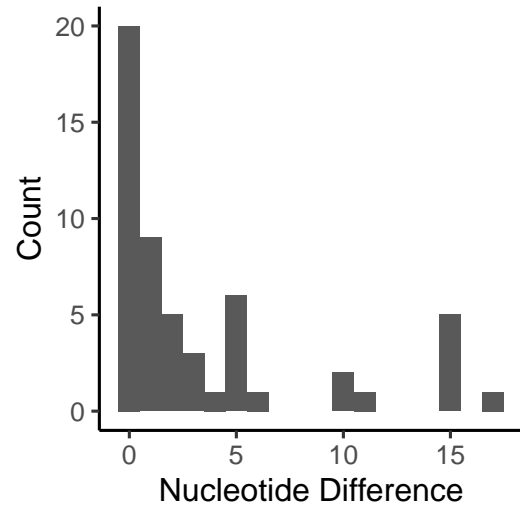
IGHV3-69-1*01

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



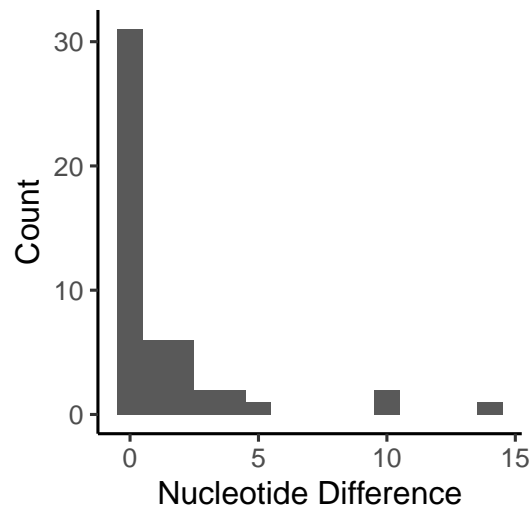
IGHV3-73*02

56 sequences assigned
20 (35.7%) exact matches, in which:
17 unique CDR3
3 unique J



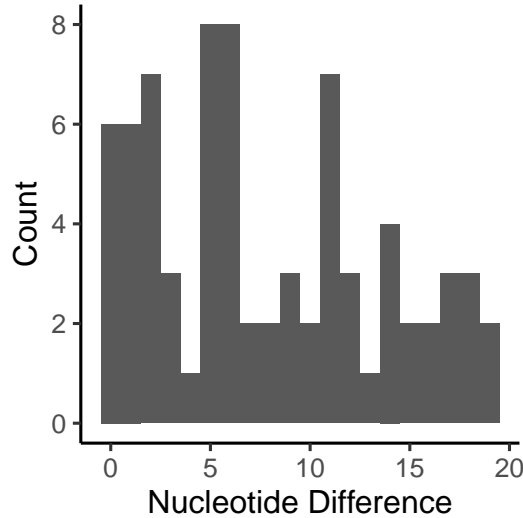
IGHV3-64*01

51 sequences assigned
31 (60.8%) exact matches, in which:
29 unique CDR3
5 unique J



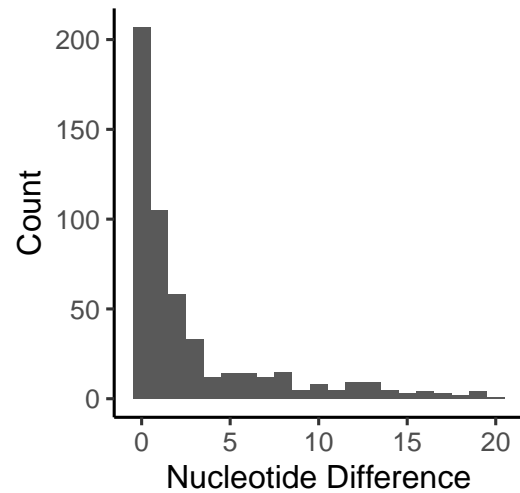
IGHV3-72*01

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



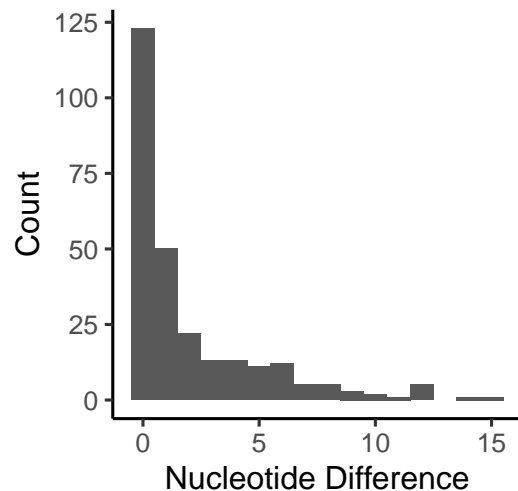
IGHV3-74*01

534 sequences assigned
207 (38.8%) exact matches, in which:
179 unique CDR3
6 unique J



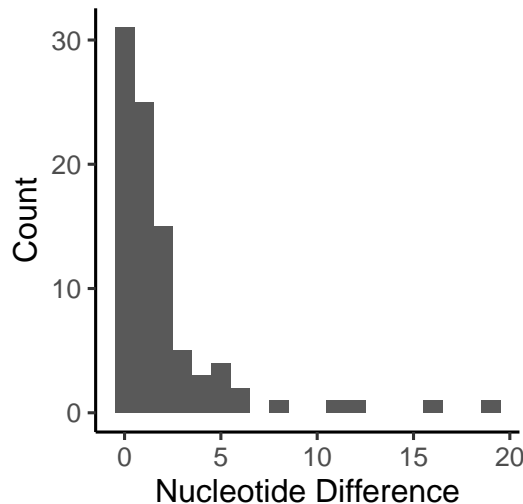
IGHV3-66*02

267 sequences assigned
123 (46.1%) exact matches, in which:
105 unique CDR3
5 unique J



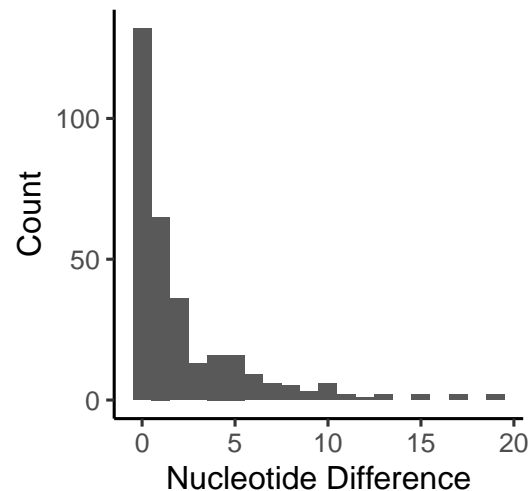
IGHV3-73*01

90 sequences assigned
31 (34.4%) exact matches, in which:
26 unique CDR3
4 unique J



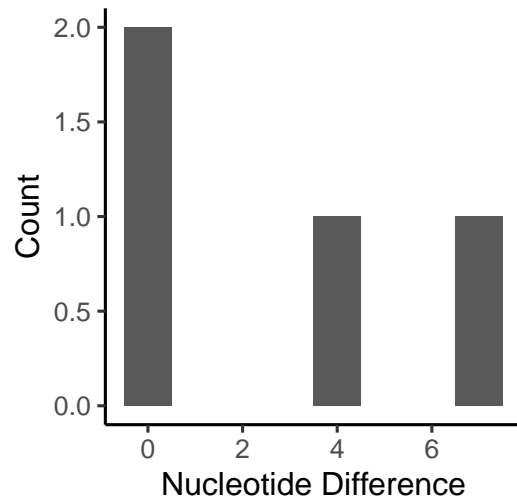
IGHV4-4*07

321 sequences assigned
132 (41.1%) exact matches, in which:
116 unique CDR3
5 unique J



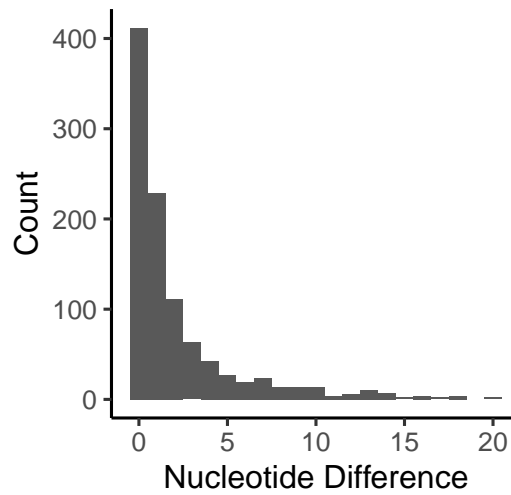
IGHV4-28*01

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



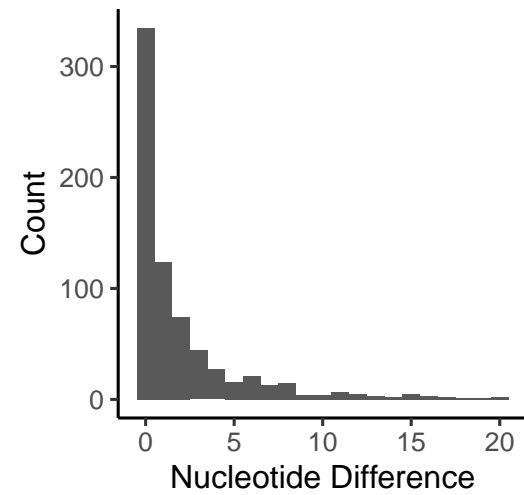
IGHV4-31*03

1013 sequences assigned
412 (40.7%) exact matches, in which:
363 unique CDR3
6 unique J



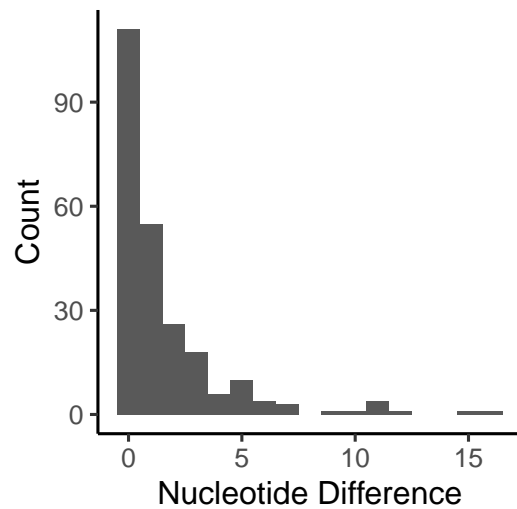
IGHV4-59*01

713 sequences assigned
335 (47%) exact matches, in which:
290 unique CDR3
6 unique J



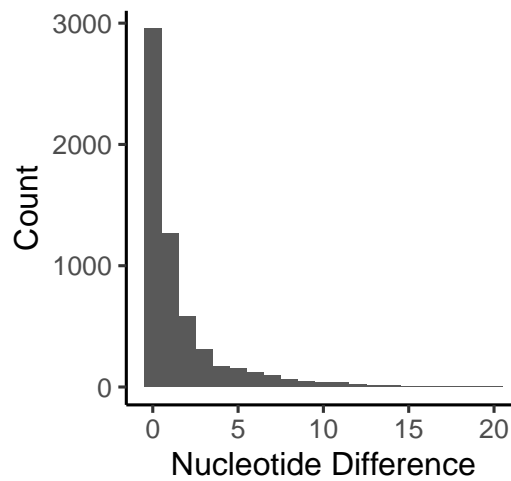
IGHV4-30-4*01

242 sequences assigned
111 (45.9%) exact matches, in which:
97 unique CDR3
6 unique J



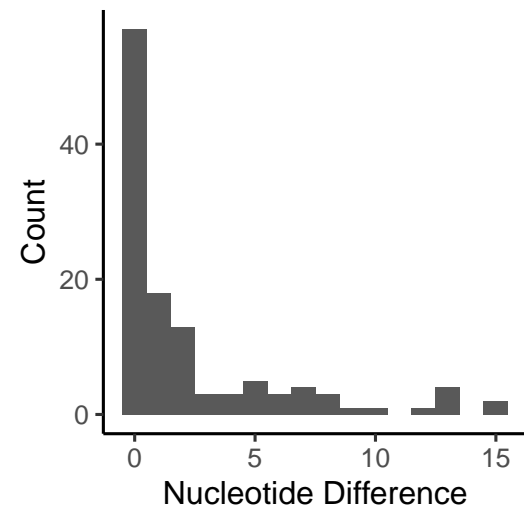
IGHV4-34*01

5901 sequences assigned
2954 (50.1%) exact matches, in which:
2044 unique CDR3
6 unique J



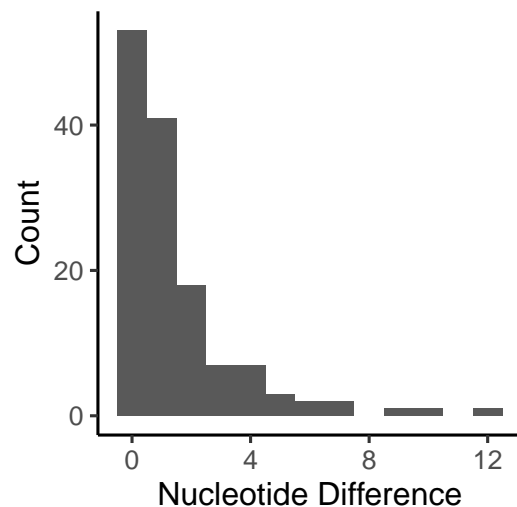
IGHV4-61*01

119 sequences assigned
57 (47.9%) exact matches, in which:
46 unique CDR3
5 unique J



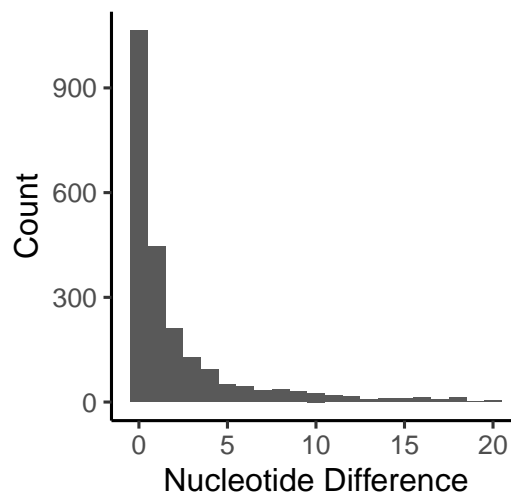
IGHV4-30-2*01

136 sequences assigned
53 (39%) exact matches, in which:
45 unique CDR3
6 unique J



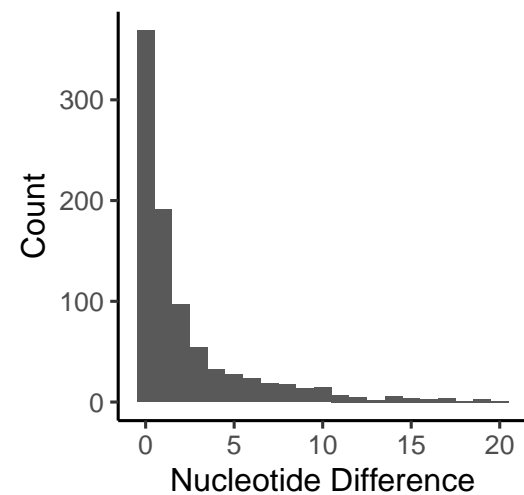
IGHV4-39*01

2287 sequences assigned
1065 (46.6%) exact matches, in which:
878 unique CDR3
6 unique J



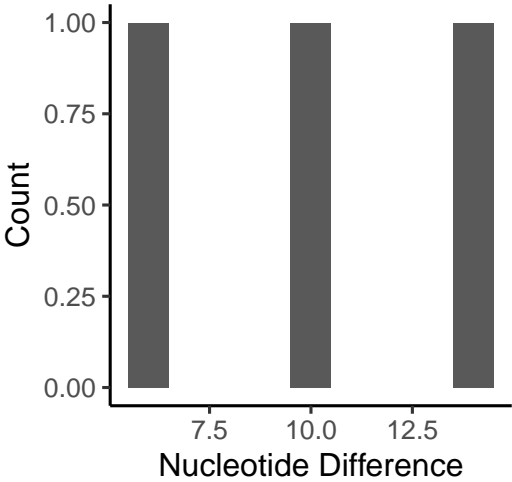
IGHV4-61*02

895 sequences assigned
369 (41.2%) exact matches, in which:
316 unique CDR3
6 unique J



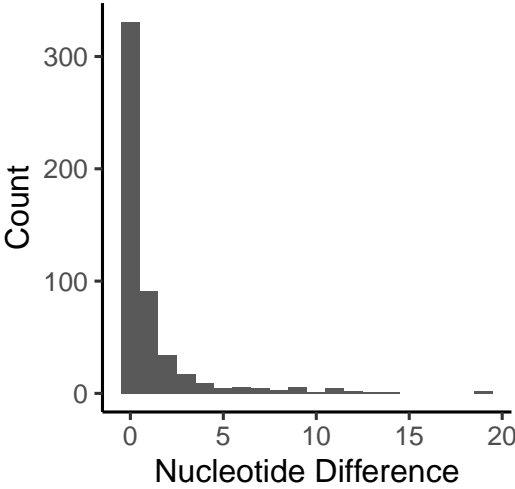
IGHV4/OR15-8*01

4 sequences assigned
No exact matches.



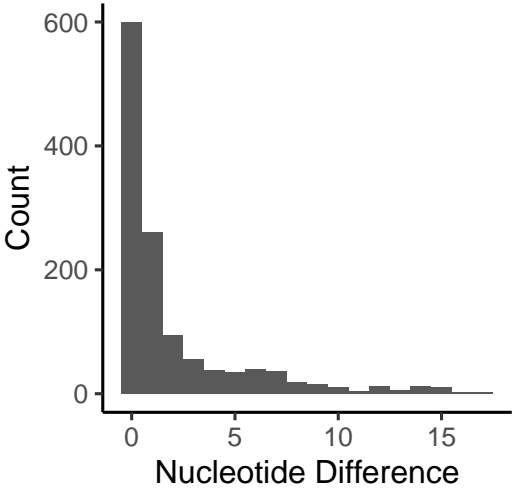
IGHV7-4-1*02

523 sequences assigned
331 (63.3%) exact matches, in which:
289 unique CDR3
6 unique J



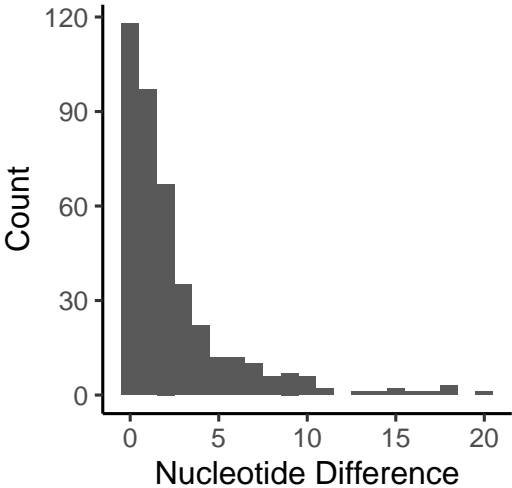
IGHV5-51*01

1252 sequences assigned
600 (47.9%) exact matches, in which:
491 unique CDR3
6 unique J



IGHV6-1*01

405 sequences assigned
118 (29.1%) exact matches, in which:
107 unique CDR3
4 unique J





Warning – no inferred sequences found.