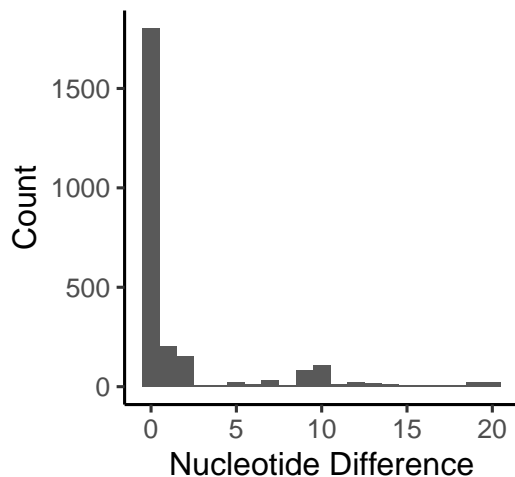


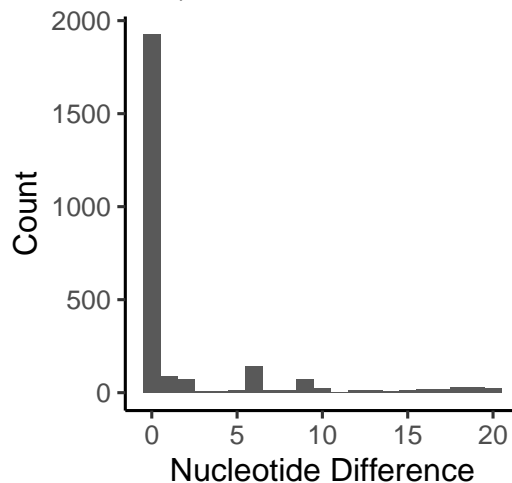
IGHV1-2*02

3144 sequences assigned
1802 (57.3%) exact matches, in which:
1784 unique CDR3
7 unique J



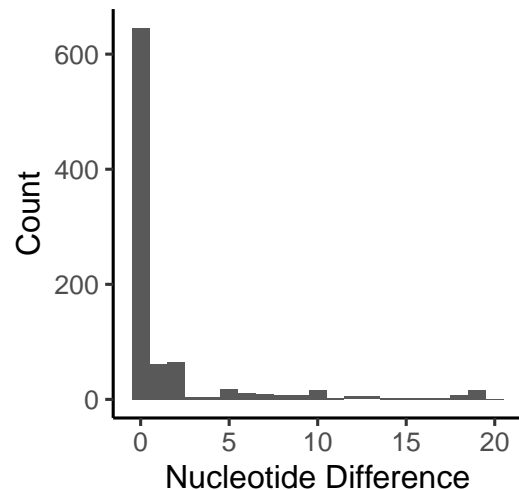
IGHV1-18*01

3986 sequences assigned
1926 (48.3%) exact matches, in which:
1907 unique CDR3
7 unique J



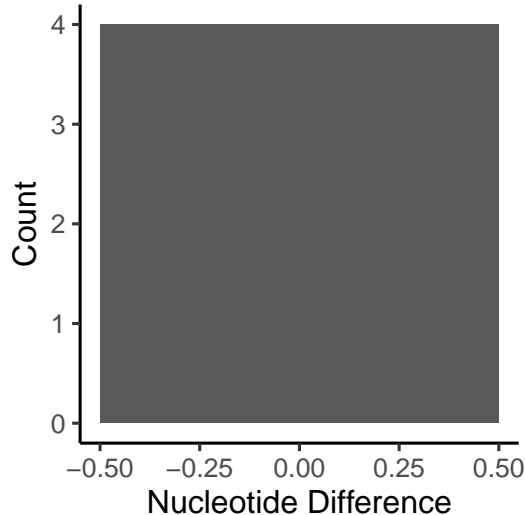
IGHV1-46*01

1062 sequences assigned
646 (60.8%) exact matches, in which:
643 unique CDR3
7 unique J



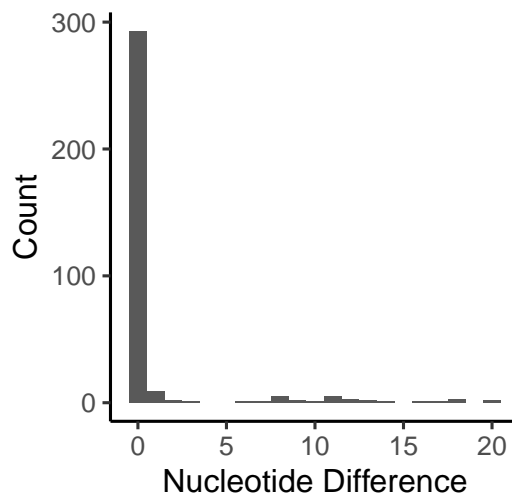
IGHV1-3*02

4 sequences assigned
4 (100%) exact matches, in which:
4 unique CDR3
3 unique J



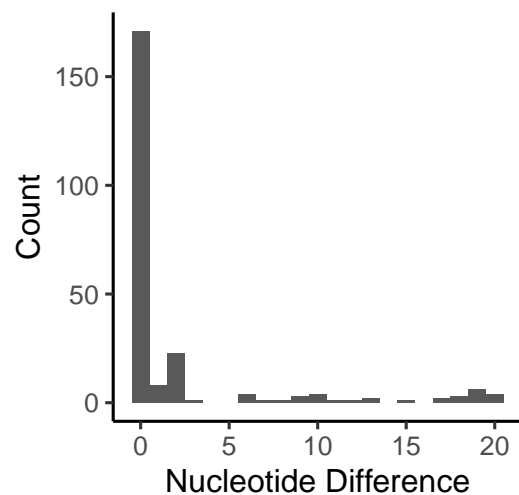
IGHV1-24*01

357 sequences assigned
293 (82.1%) exact matches, in which:
292 unique CDR3
6 unique J



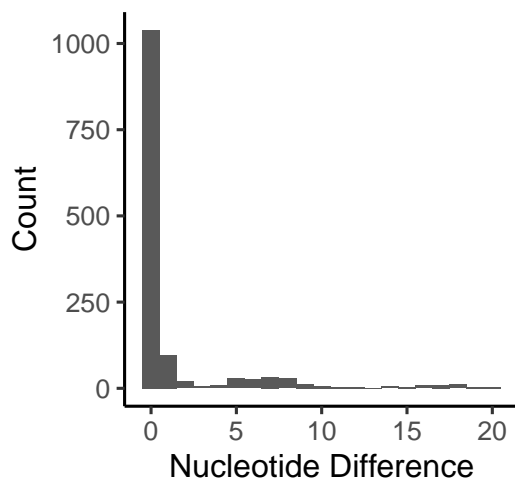
IGHV1-46*03

238 sequences assigned
171 (71.8%) exact matches, in which:
168 unique CDR3
4 unique J



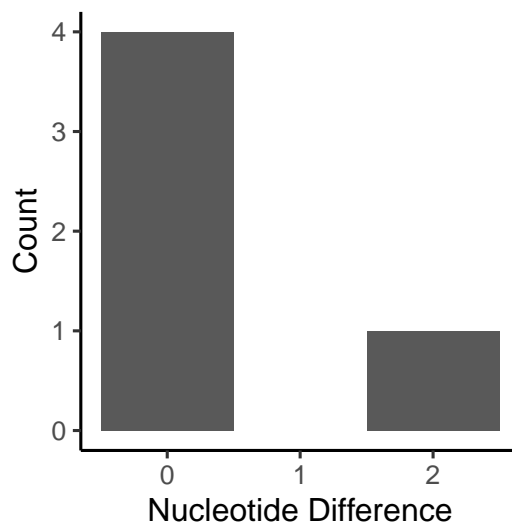
IGHV1-8*01

2011 sequences assigned
1039 (51.7%) exact matches, in which:
1032 unique CDR3
7 unique J



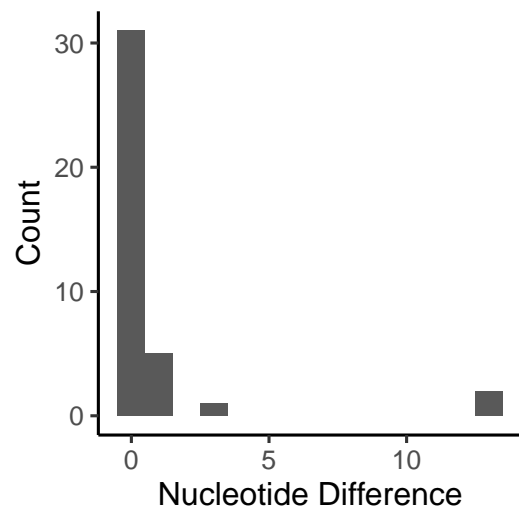
IGHV1-45*02

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



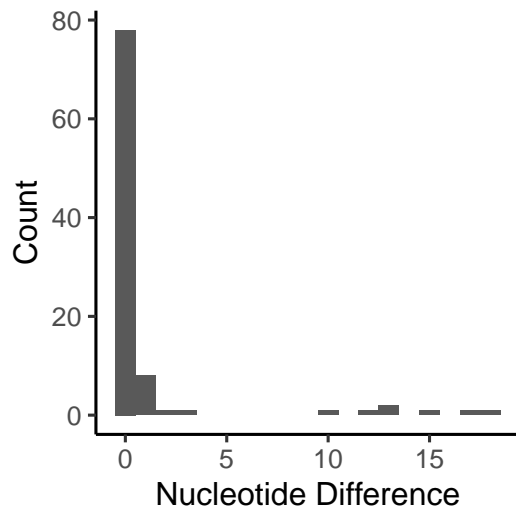
IGHV1-58*02

39 sequences assigned
31 (79.5%) exact matches, in which:
30 unique CDR3
5 unique J



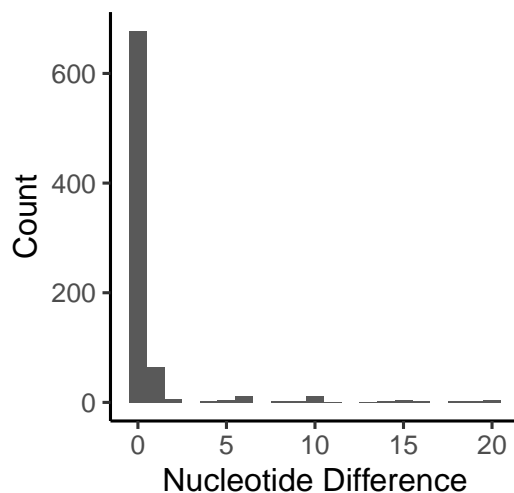
IGHV1-58*01_03

100 sequences assigned
78 (78%) exact matches, in which:
76 unique CDR3
5 unique J



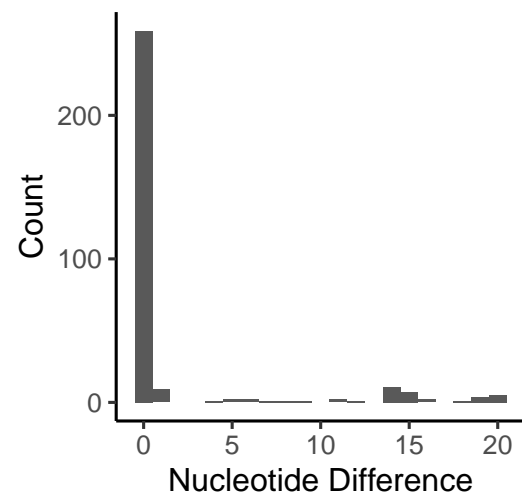
IGHV1-69*04_09

1148 sequences assigned
678 (59.1%) exact matches, in which:
674 unique CDR3
7 unique J



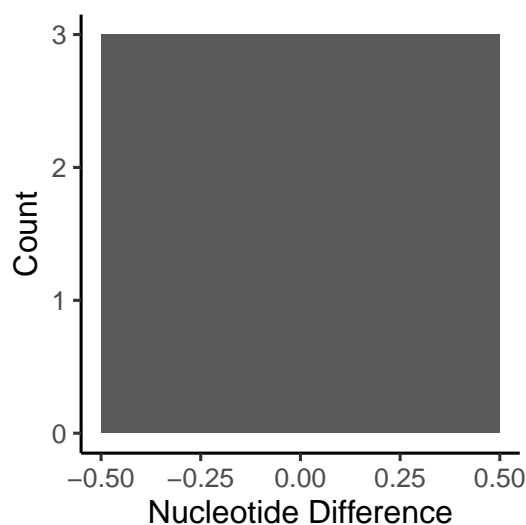
IGHV2-5*01

381 sequences assigned
259 (68%) exact matches, in which:
251 unique CDR3
6 unique J



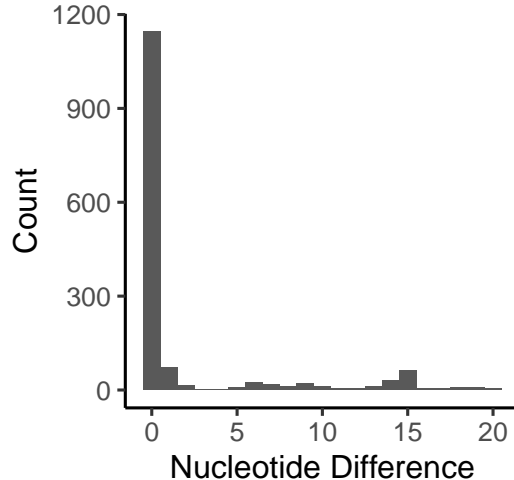
IGHV1-69-2*01

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



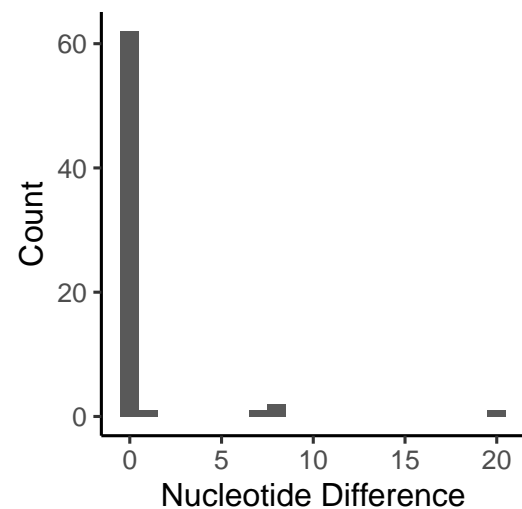
IGHV1-69*06_14

1541 sequences assigned
1145 (74.3%) exact matches, in which:
1137 unique CDR3
7 unique J



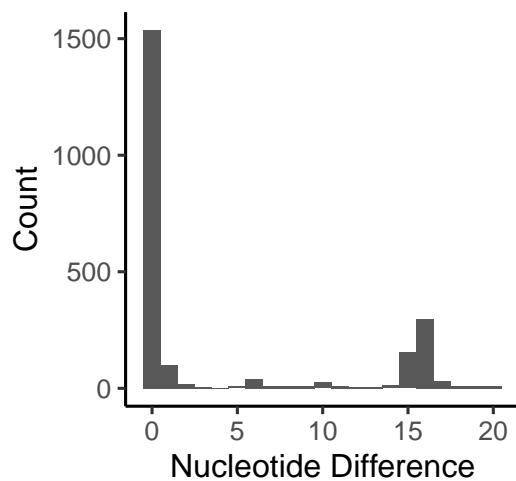
IGHV2-26*01

67 sequences assigned
62 (92.5%) exact matches, in which:
59 unique CDR3
5 unique J



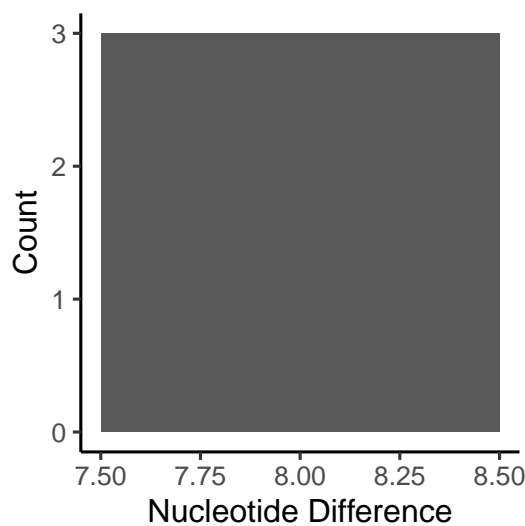
IGHV1-69*01_12_13

2514 sequences assigned
1537 (61.1%) exact matches, in which:
1520 unique CDR3
7 unique J



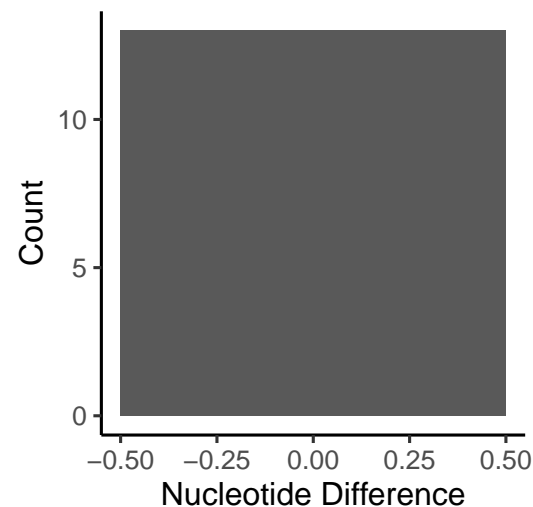
IGHV1-NL1*01

3 sequences assigned
No exact matches.



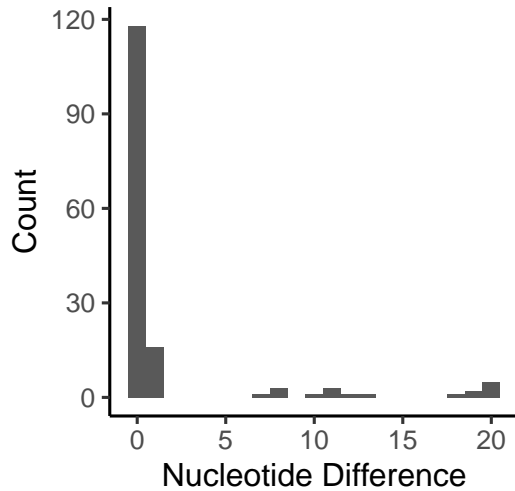
IGHV2-26*04

13 sequences assigned
13 (100%) exact matches, in which:
13 unique CDR3
4 unique J



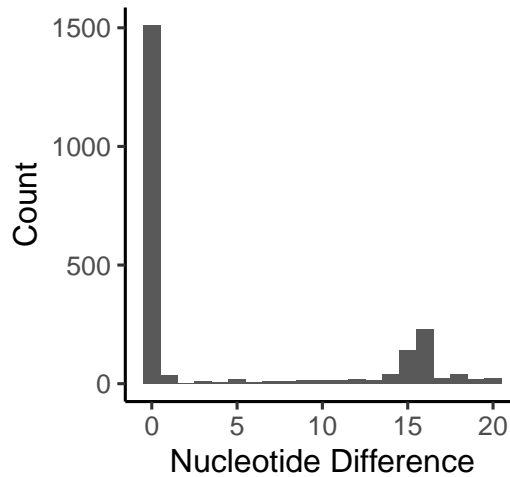
IGHV2-70*01

291 sequences assigned
118 (40.5%) exact matches, in which:
116 unique CDR3
6 unique J



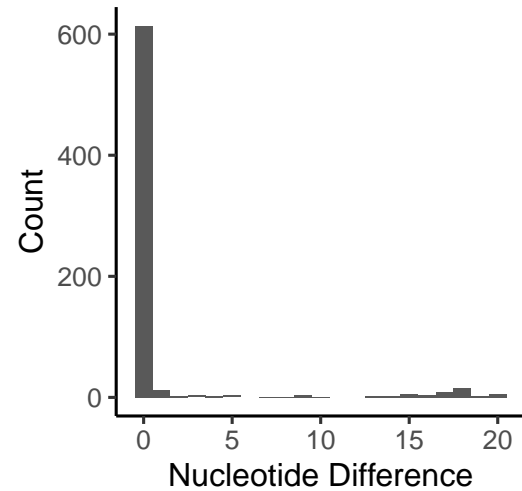
IGHV3-9*01

2390 sequences assigned
1510 (63.2%) exact matches, in which:
975 unique CDR3
7 unique J



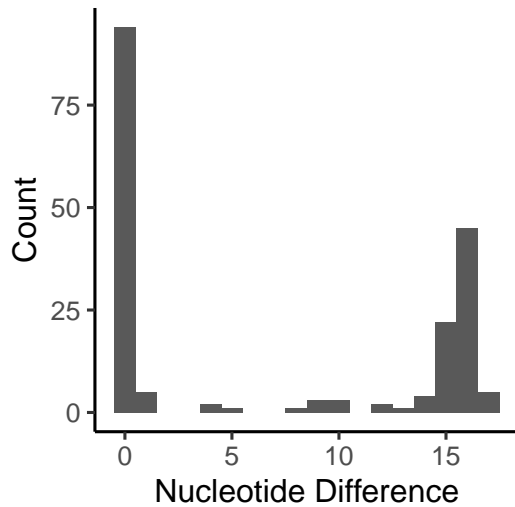
IGHV3-15*01_02

827 sequences assigned
614 (74.2%) exact matches, in which:
440 unique CDR3
7 unique J



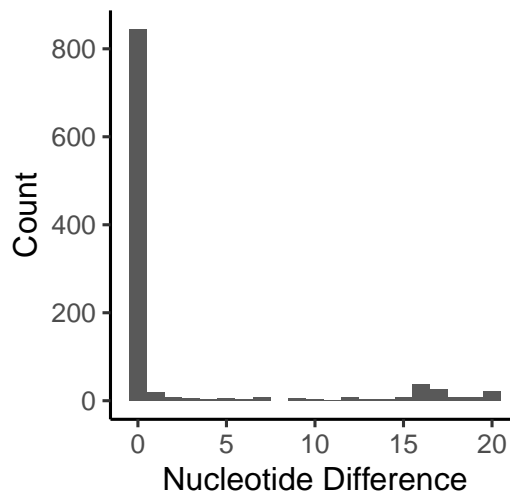
IGHV2-70*11_15

189 sequences assigned
94 (49.7%) exact matches, in which:
91 unique CDR3
6 unique J



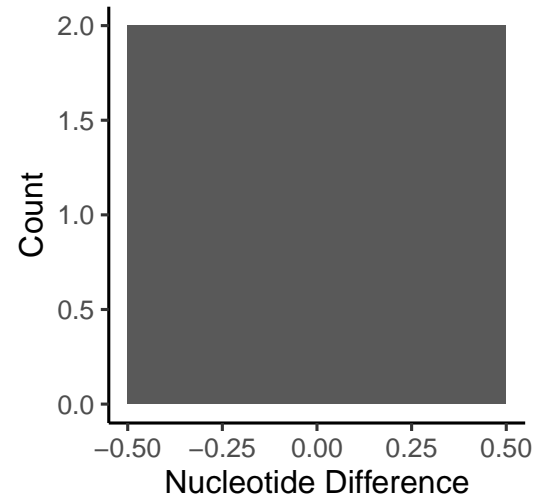
IGHV3-11*01

1204 sequences assigned
845 (70.2%) exact matches, in which:
562 unique CDR3
7 unique J



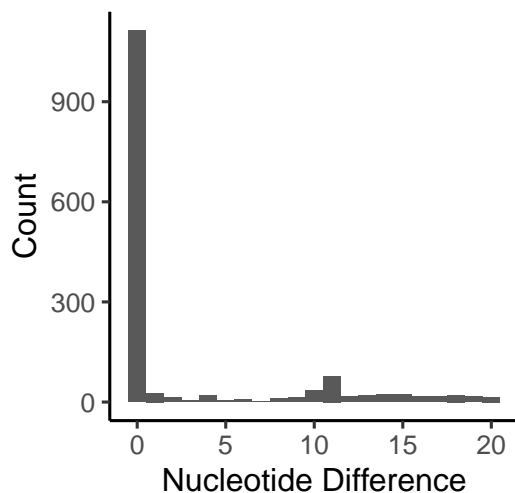
IGHV3-19*01

2 sequences assigned
2 (100%) exact matches, in which:
1 unique CDR3
1 unique J



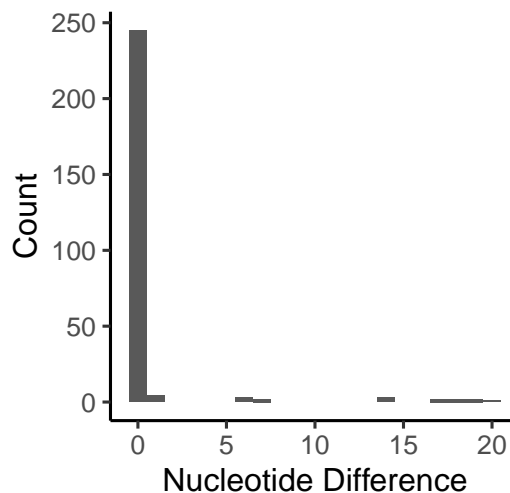
IGHV3-7*01

2049 sequences assigned
1114 (54.4%) exact matches, in which:
719 unique CDR3
7 unique J



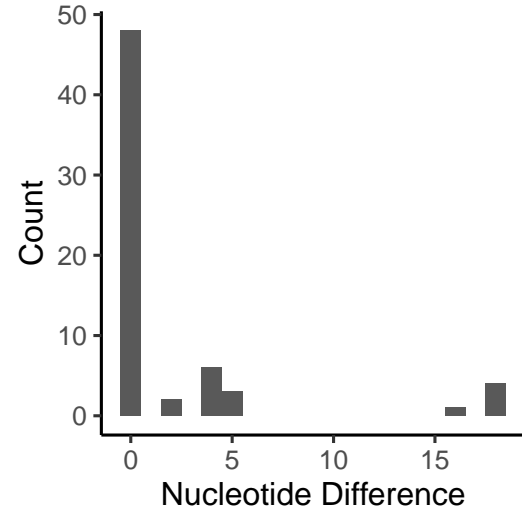
IGHV3-13*01

287 sequences assigned
245 (85.4%) exact matches, in which:
149 unique CDR3
6 unique J



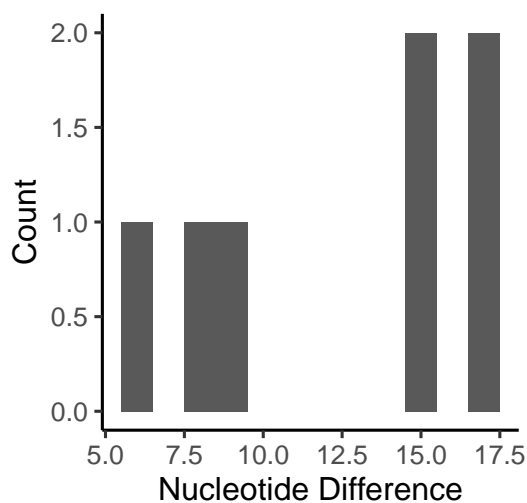
IGHV3-20*01_02

67 sequences assigned
48 (71.6%) exact matches, in which:
31 unique CDR3
5 unique J



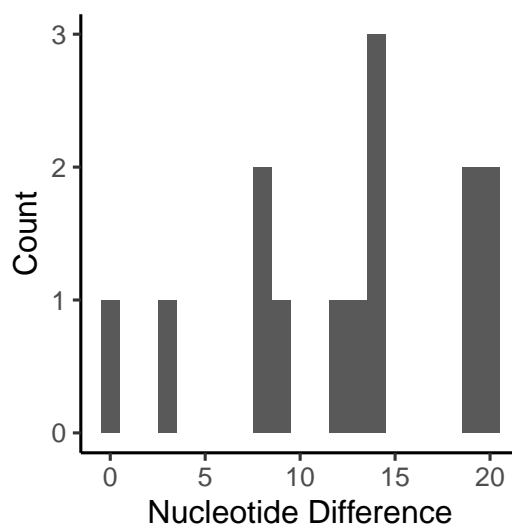
IGHV3-20*03_04

28 sequences assigned
No exact matches.



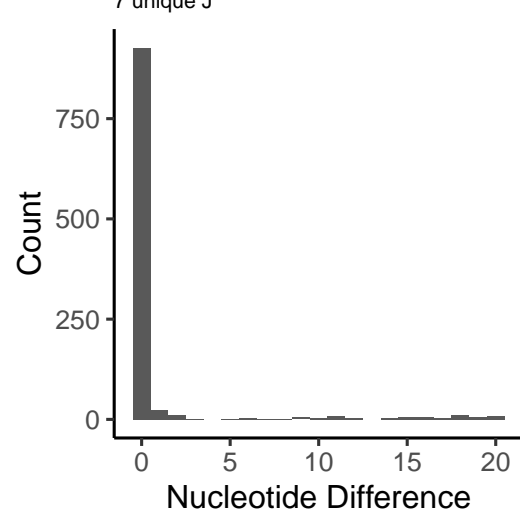
IGHV3-30-5*01

45 sequences assigned
1 (2.2%) exact matches, in which:
1 unique CDR3
1 unique J



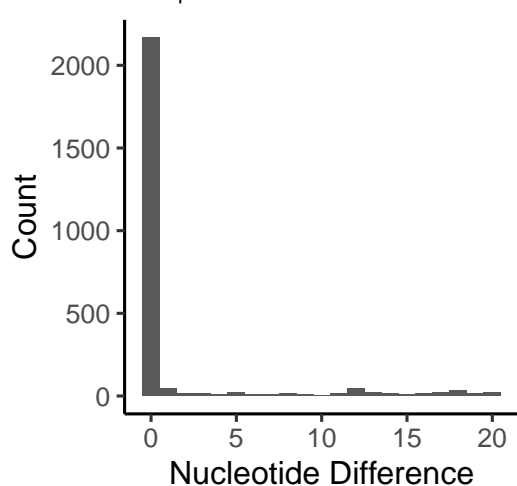
IGHV3-33*08

1444 sequences assigned
927 (64.2%) exact matches, in which:
636 unique CDR3
7 unique J



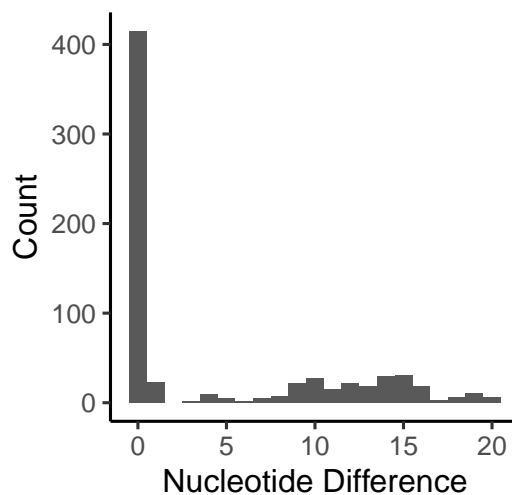
IGHV3-21*01_02

2971 sequences assigned
2167 (72.9%) exact matches, in which:
1367 unique CDR3
7 unique J



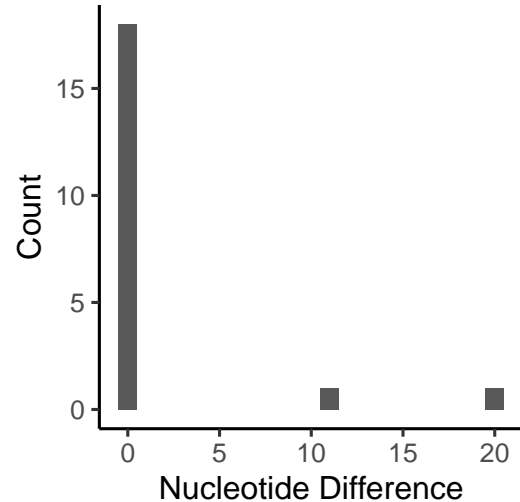
IGHV3-30*03

756 sequences assigned
415 (54.9%) exact matches, in which:
285 unique CDR3
7 unique J



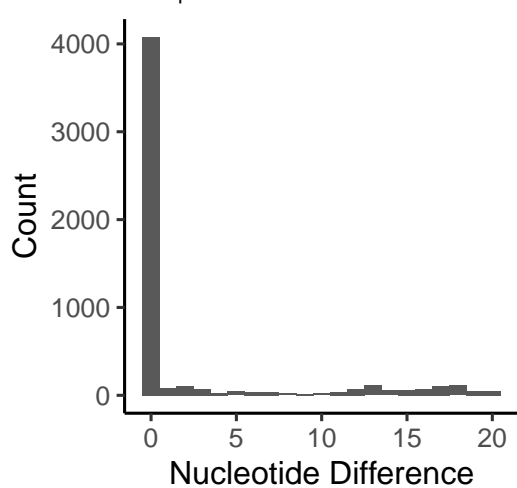
IGHV3-43*01

63 sequences assigned
18 (28.6%) exact matches, in which:
14 unique CDR3
3 unique J



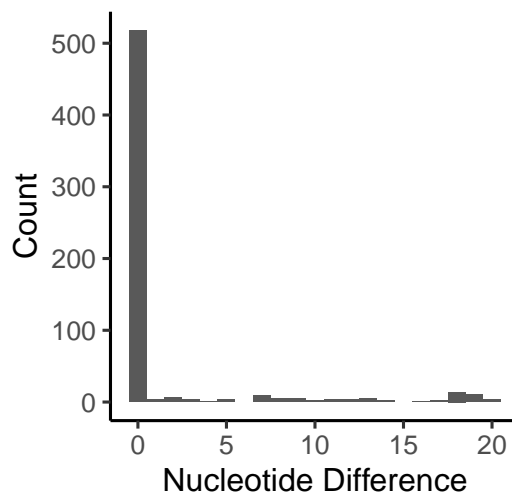
IGHV3-23*01_04

6243 sequences assigned
4078 (65.3%) exact matches, in which:
2552 unique CDR3
7 unique J



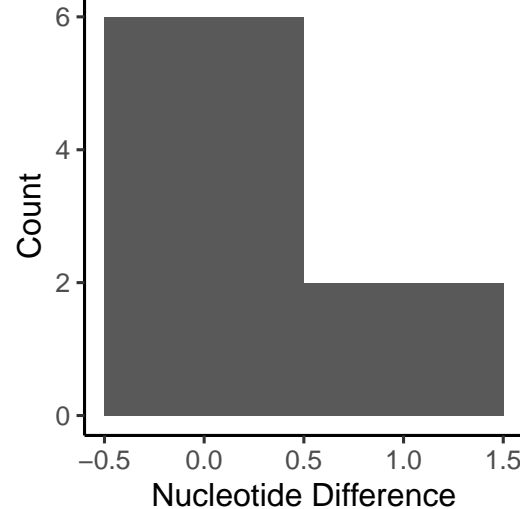
IGHV3-33*01

752 sequences assigned
518 (68.9%) exact matches, in which:
368 unique CDR3
7 unique J



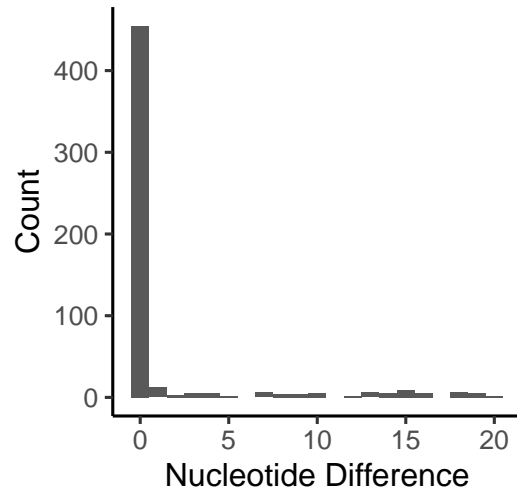
IGHV3-47*02

8 sequences assigned
6 (75%) exact matches, in which:
2 unique CDR3
2 unique J



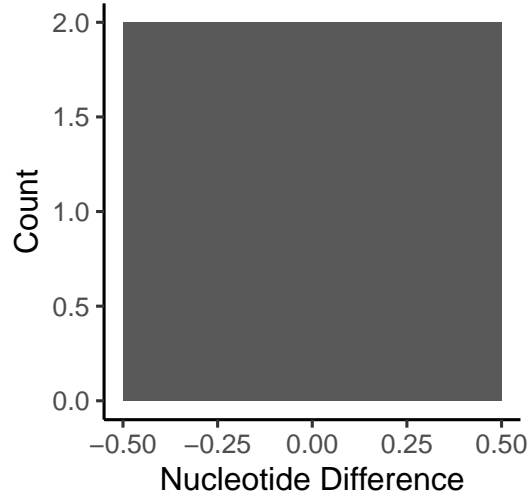
IGHV3-48*01

607 sequences assigned
455 (75%) exact matches, in which:
299 unique CDR3
7 unique J



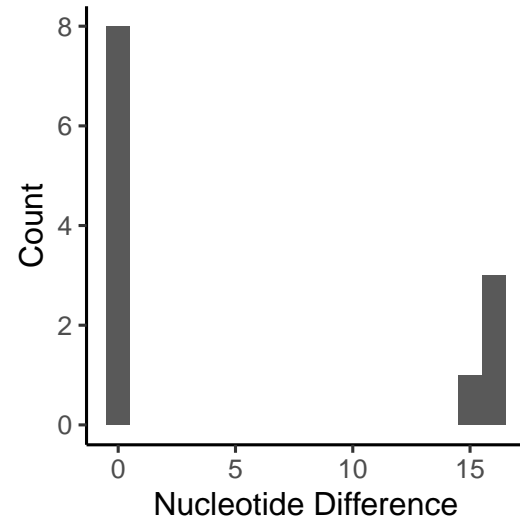
IGHV3-52*01_03

2 sequences assigned
2 (100%) exact matches, in which:
1 unique CDR3
1 unique J



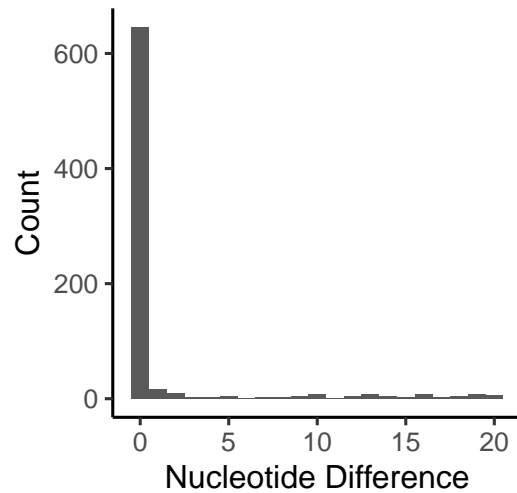
IGHV3-64*02_07

14 sequences assigned
8 (57.1%) exact matches, in which:
5 unique CDR3
2 unique J



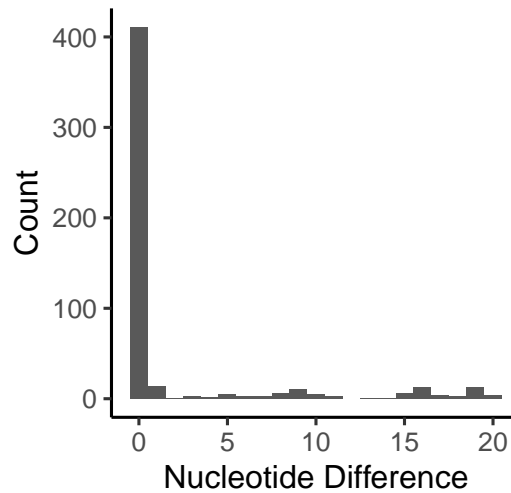
IGHV3-48*02

842 sequences assigned
646 (76.7%) exact matches, in which:
420 unique CDR3
7 unique J



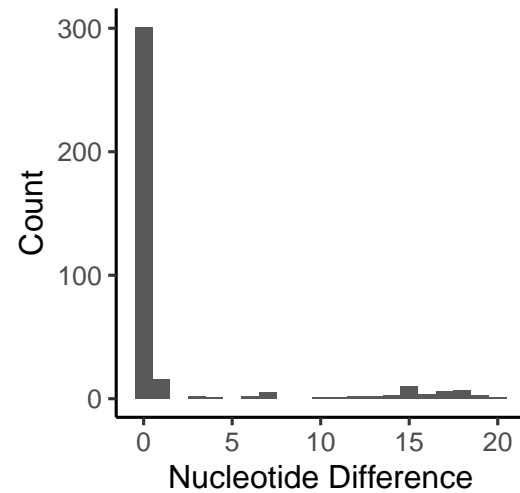
IGHV3-53*01_02

699 sequences assigned
411 (58.8%) exact matches, in which:
269 unique CDR3
6 unique J



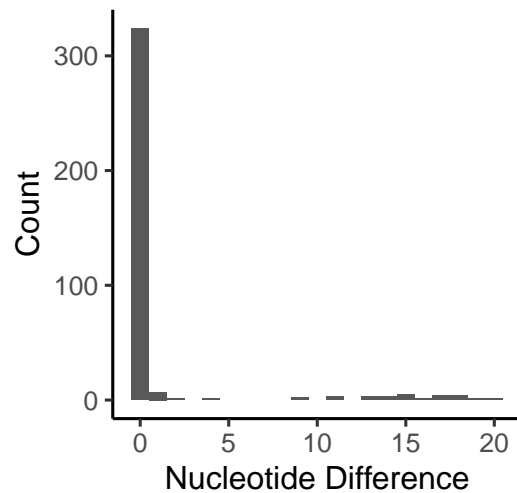
IGHV3-66*01

459 sequences assigned
301 (65.6%) exact matches, in which:
200 unique CDR3
7 unique J



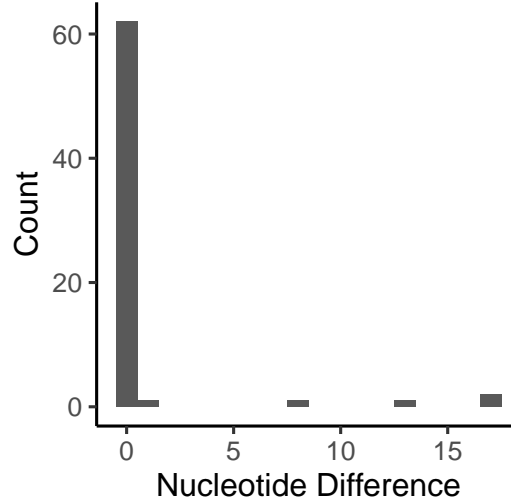
IGHV3-49*03_05

467 sequences assigned
324 (69.4%) exact matches, in which:
232 unique CDR3
7 unique J



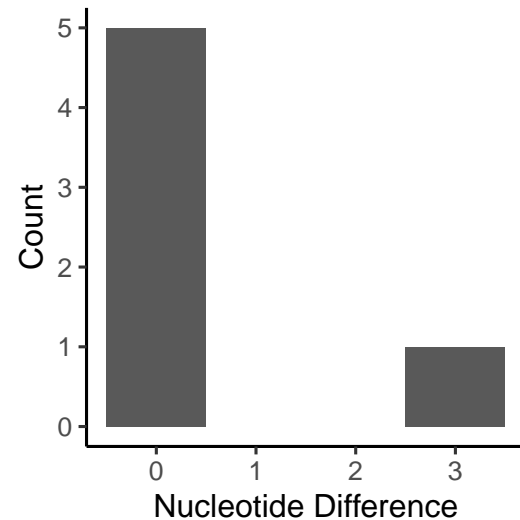
IGHV3-64*01

71 sequences assigned
62 (87.3%) exact matches, in which:
41 unique CDR3
5 unique J



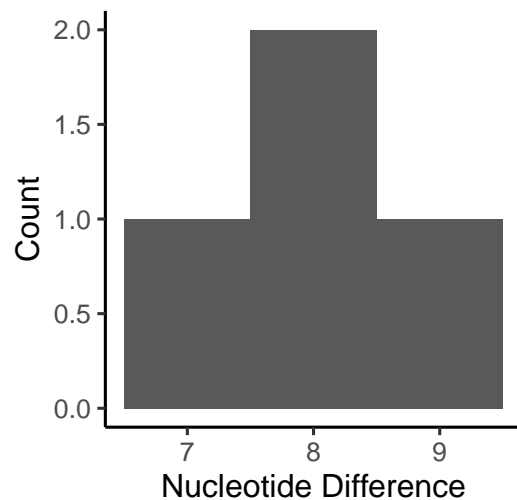
IGHV3-69-1*01

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



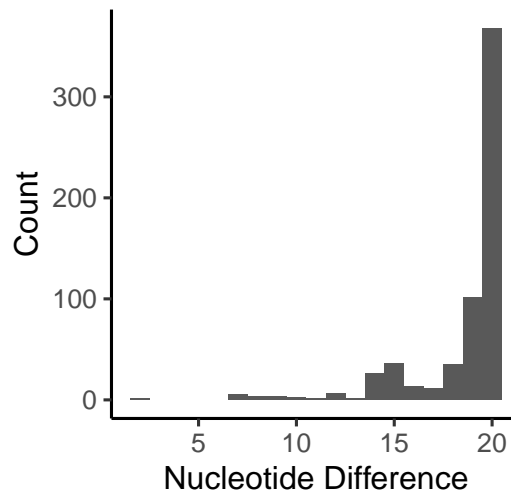
IGHV3-69-1*02

6 sequences assigned
No exact matches.



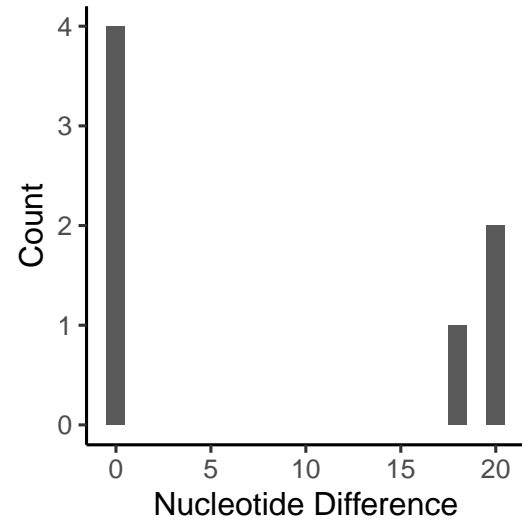
IGHV3-74*03

1525 sequences assigned
No exact matches.



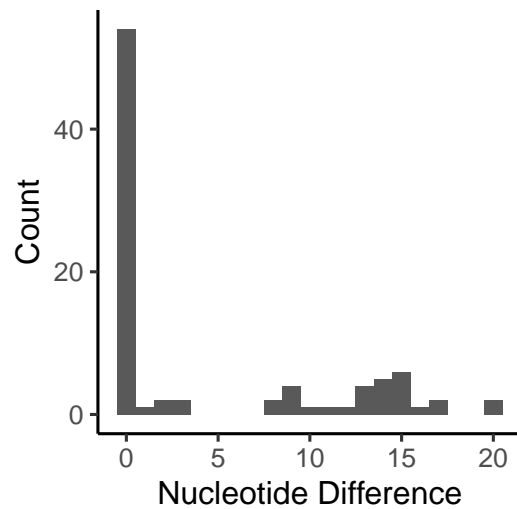
IGHV4-28*01_07

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



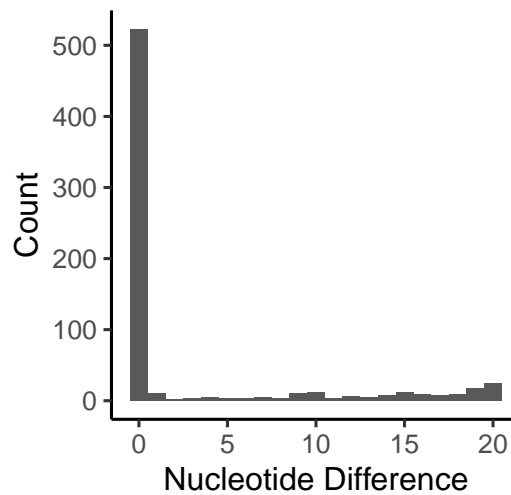
IGHV3-72*01

122 sequences assigned
54 (44.3%) exact matches, in which:
38 unique CDR3
6 unique J



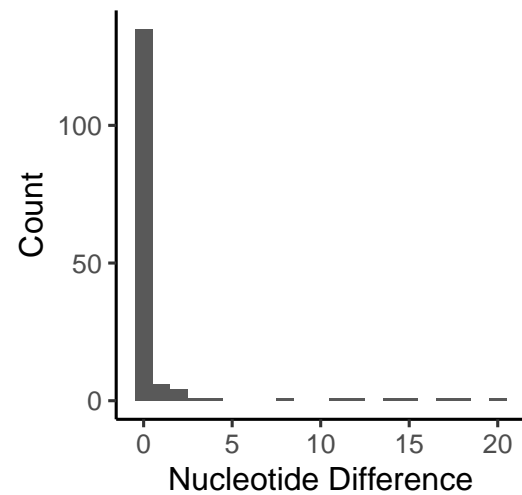
IGHV3-74*01_02

869 sequences assigned
523 (60.2%) exact matches, in which:
323 unique CDR3
7 unique J



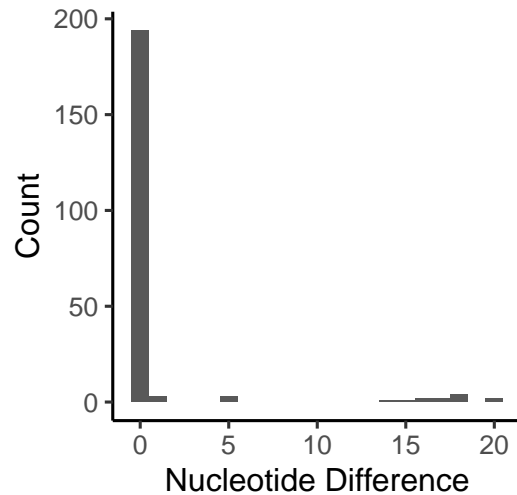
IGHV4-30-2*01

161 sequences assigned
135 (83.9%) exact matches, in which:
127 unique CDR3
6 unique J



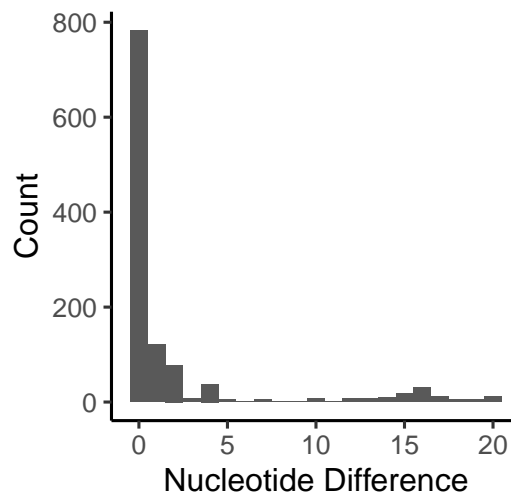
IGHV3-73*01_02

235 sequences assigned
194 (82.6%) exact matches, in which:
133 unique CDR3
6 unique J



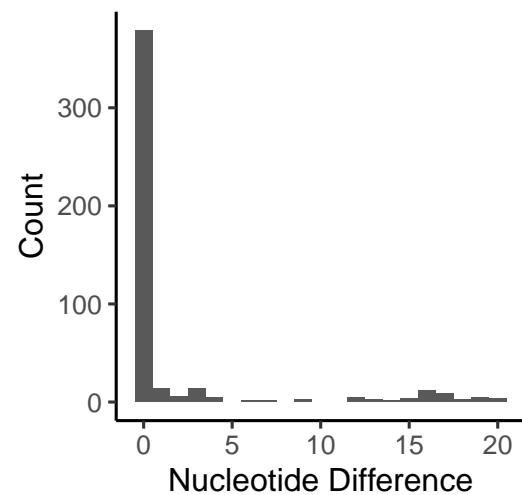
IGHV4-4*07

1460 sequences assigned
783 (53.6%) exact matches, in which:
768 unique CDR3
7 unique J



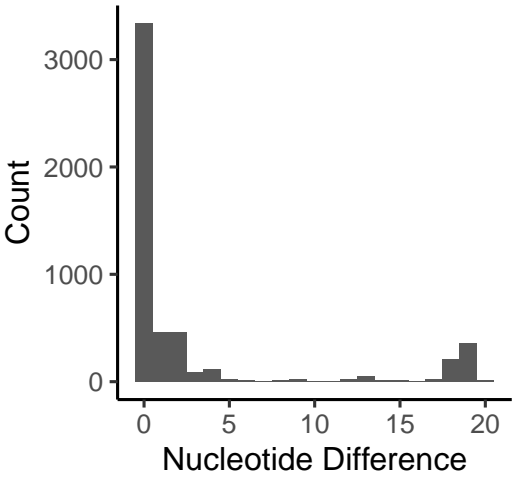
IGHV4-31*02

592 sequences assigned
379 (64%) exact matches, in which:
373 unique CDR3
6 unique J



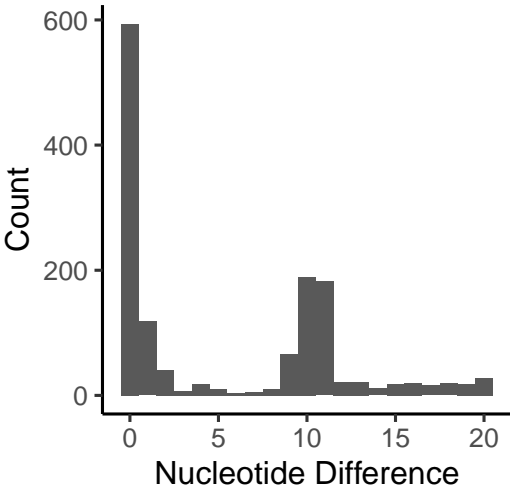
IGHV4-34*01_02

5612 sequences assigned
3337 (59.5%) exact matches, in which:
3228 unique CDR3
7 unique J



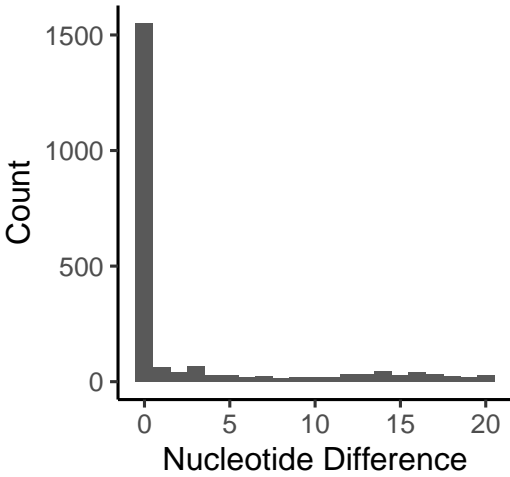
IGHV4-59*08

1683 sequences assigned
594 (35.3%) exact matches, in which:
586 unique CDR3
6 unique J



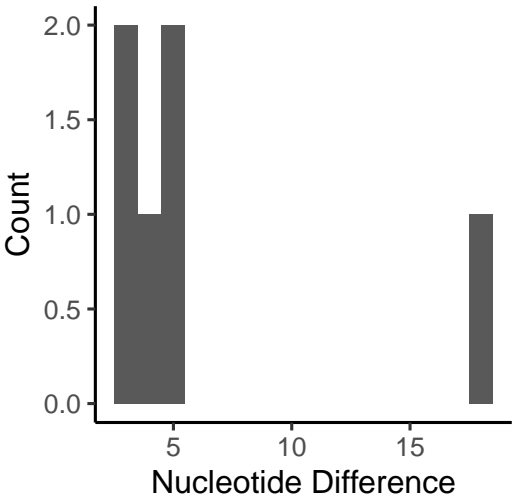
IGHV5-51*07_A128G

3071 sequences assigned
1550 (50.5%) exact matches, in which:
1232 unique CDR3
7 unique J



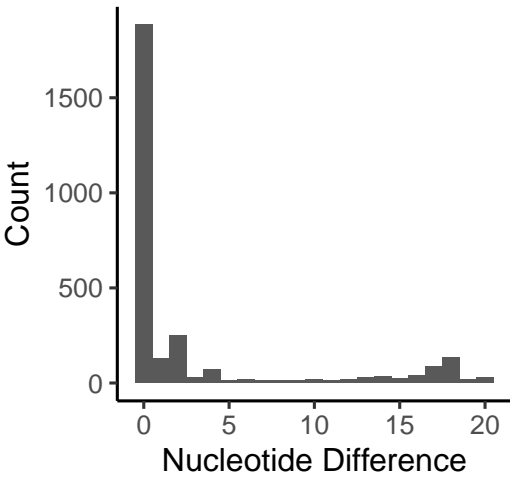
IGHV4-38-2*02

8 sequences assigned
No exact matches.



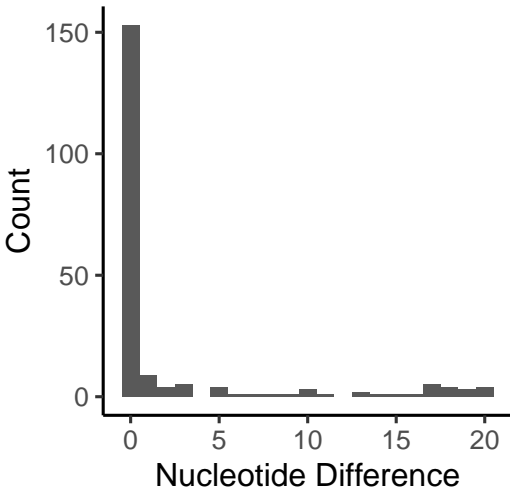
IGHV4-59*02_G88A

3287 sequences assigned
1884 (57.3%) exact matches, in which:
1862 unique CDR3
7 unique J



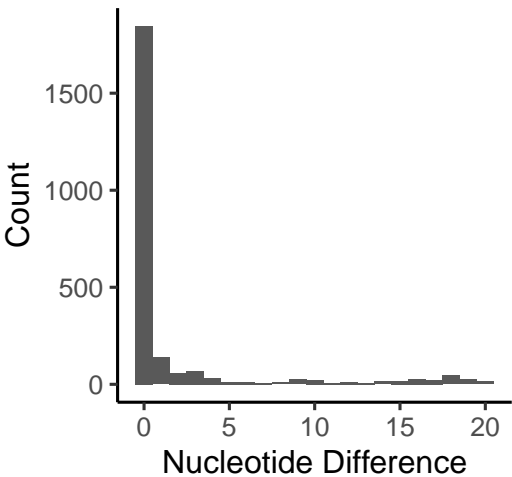
IGHV6-1*01_02

224 sequences assigned
153 (68.3%) exact matches, in which:
151 unique CDR3
7 unique J



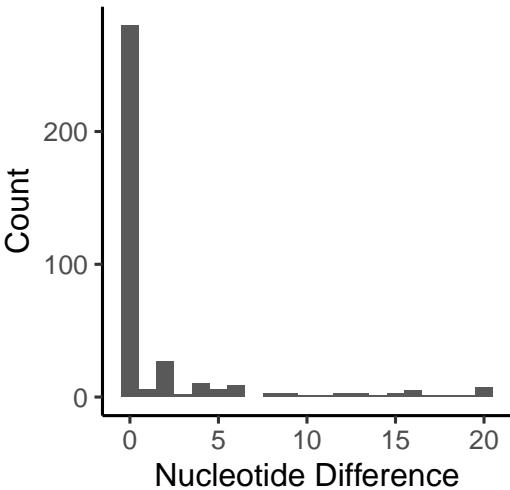
IGHV4-39*02_C258G

3180 sequences assigned
1846 (58.1%) exact matches, in which:
1783 unique CDR3
7 unique J



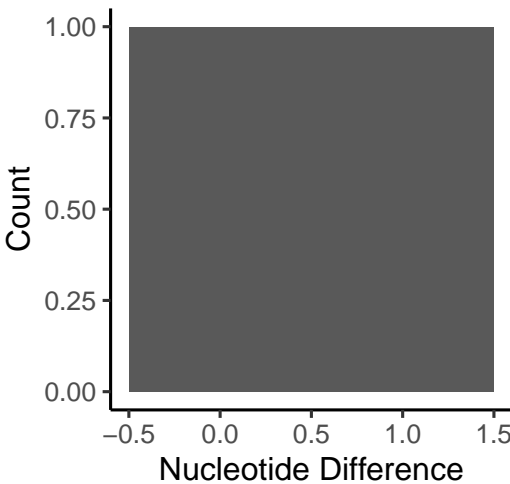
IGHV4-61*01

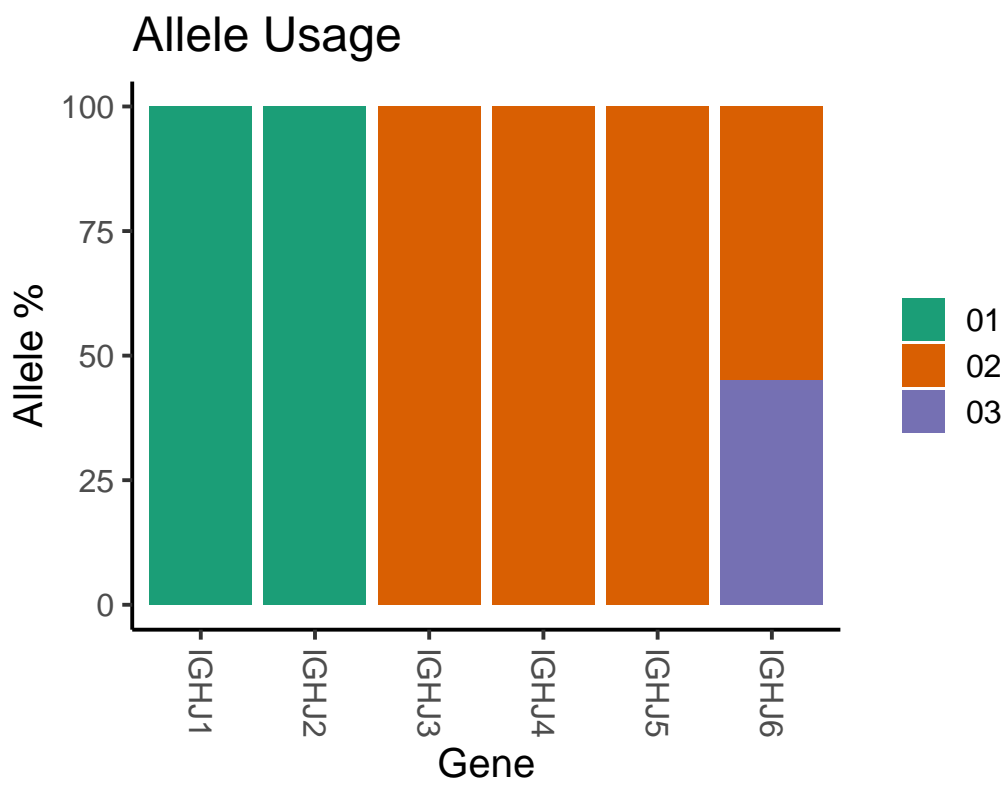
415 sequences assigned
280 (67.5%) exact matches, in which:
277 unique CDR3
7 unique J



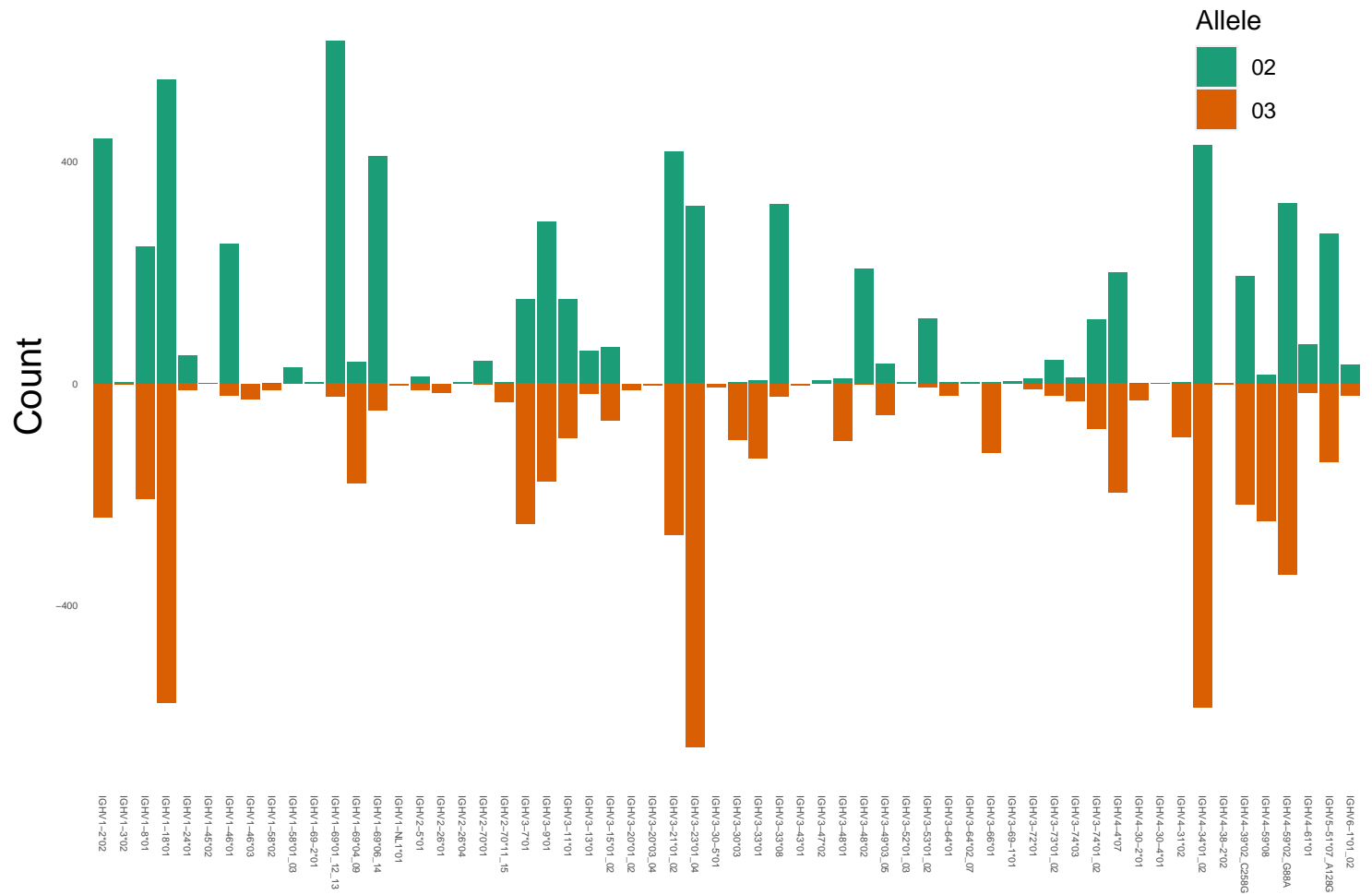
IGHV7-4-1*02

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





Sequence Count byIGHJ6 allele usage



Warning – no inferred sequences found.