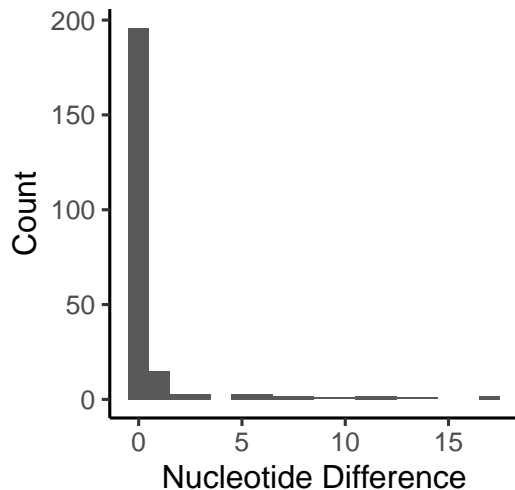


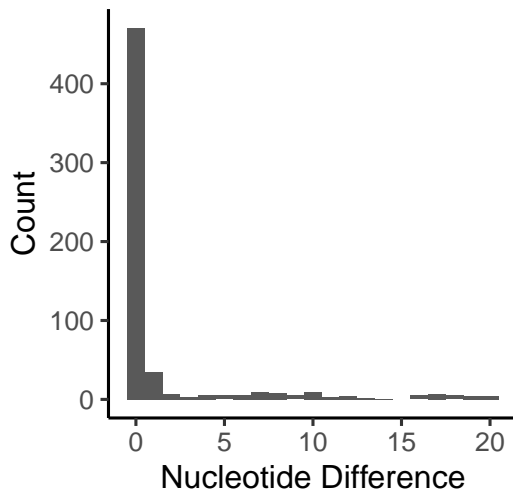
IGHV1-2*04

245 sequences assigned
196 (80%) exact matches, in which:
195 unique CDR3
6 unique J



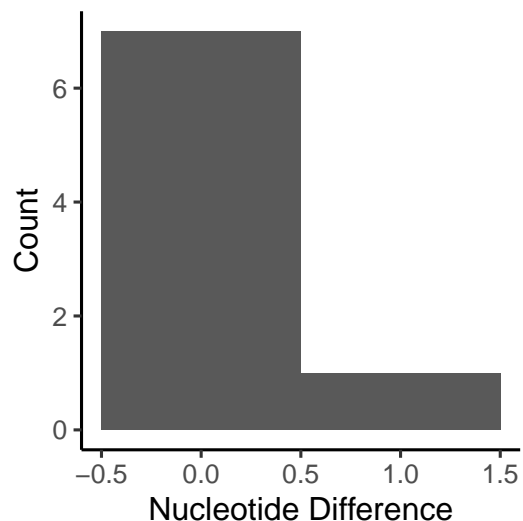
IGHV1-8*01

623 sequences assigned
471 (75.6%) exact matches, in which:
470 unique CDR3
6 unique J



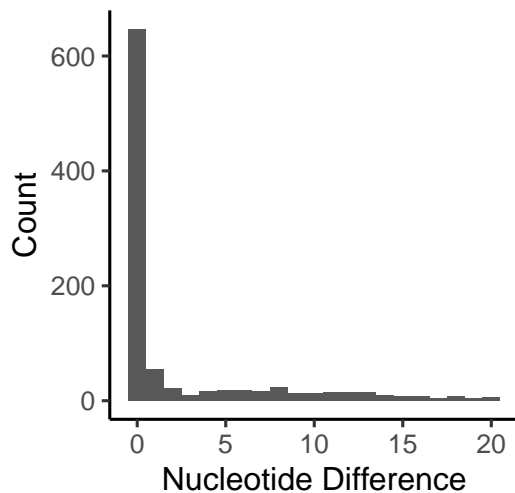
IGHV1-45*02

11 sequences assigned
7 (63.6%) exact matches, in which:
7 unique CDR3
3 unique J



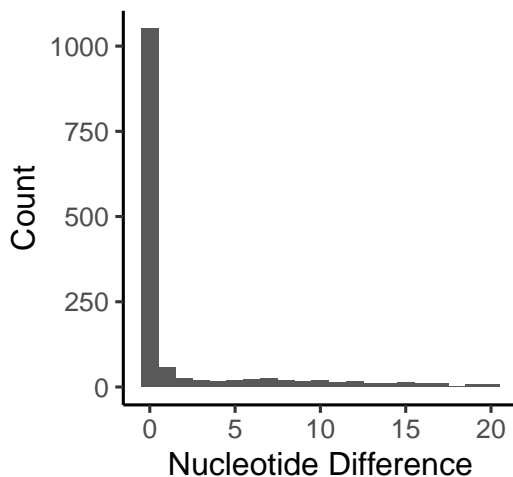
IGHV1-2*06

974 sequences assigned
647 (66.4%) exact matches, in which:
647 unique CDR3
6 unique J



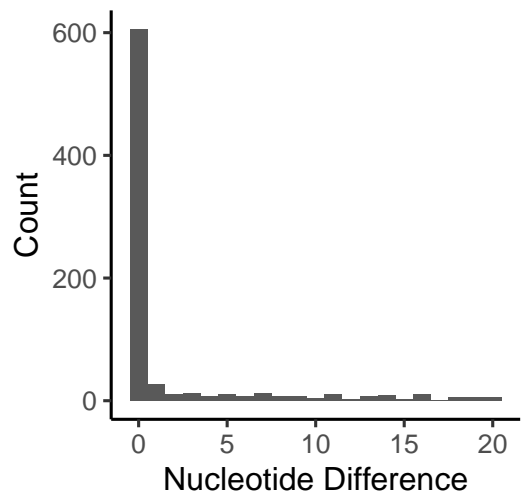
IGHV1-18*01

1443 sequences assigned
1051 (72.8%) exact matches, in which:
1048 unique CDR3
6 unique J



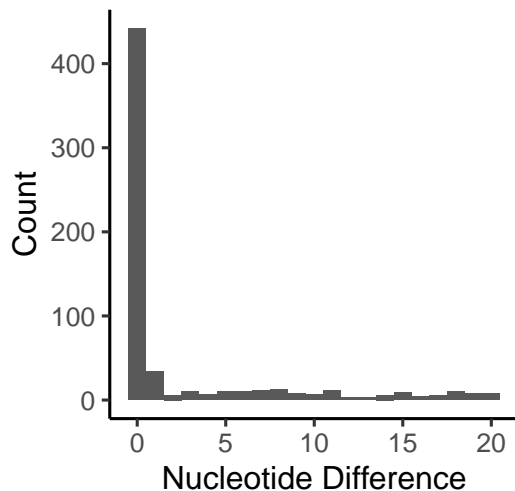
IGHV1-46*01

794 sequences assigned
606 (76.3%) exact matches, in which:
606 unique CDR3
6 unique J



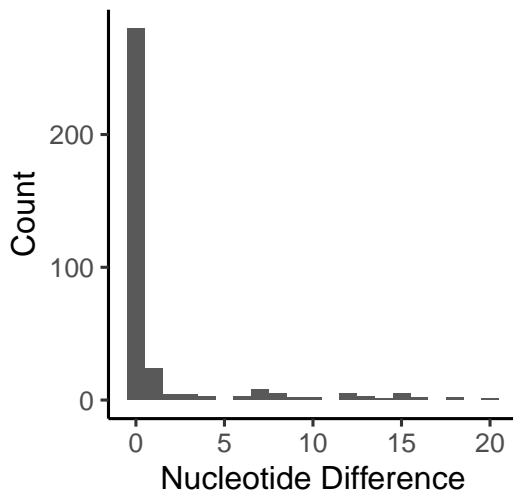
IGHV1-3*01_05

663 sequences assigned
442 (66.7%) exact matches, in which:
442 unique CDR3
6 unique J



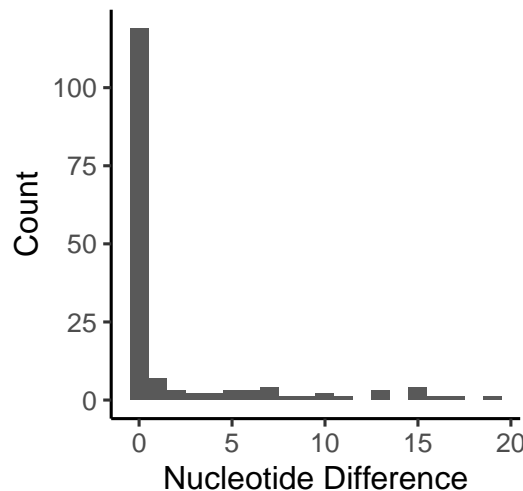
IGHV1-24*01

361 sequences assigned
280 (77.6%) exact matches, in which:
280 unique CDR3
6 unique J



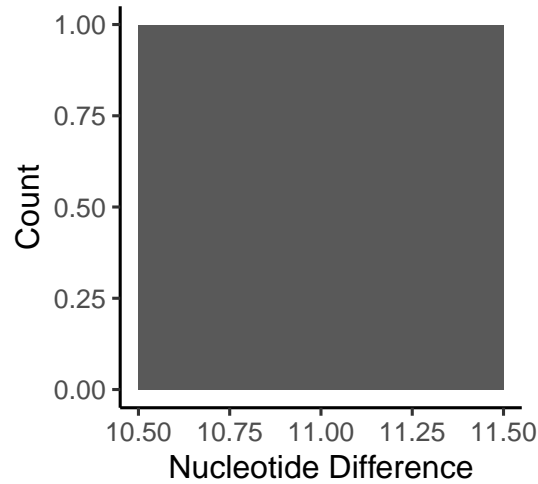
IGHV1-58*01_03

162 sequences assigned
119 (73.5%) exact matches, in which:
119 unique CDR3
6 unique J



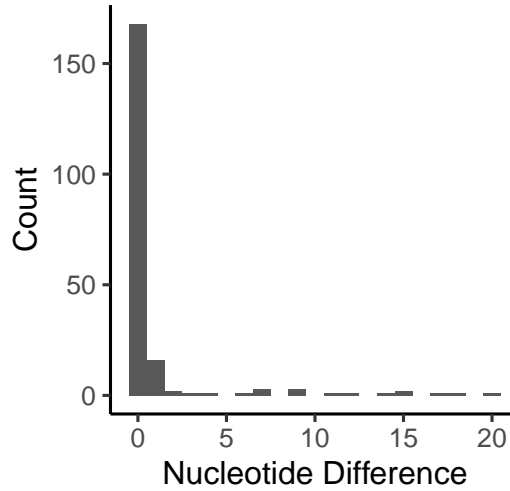
IGHV1-68*01

1 sequences assigned
No exact matches.



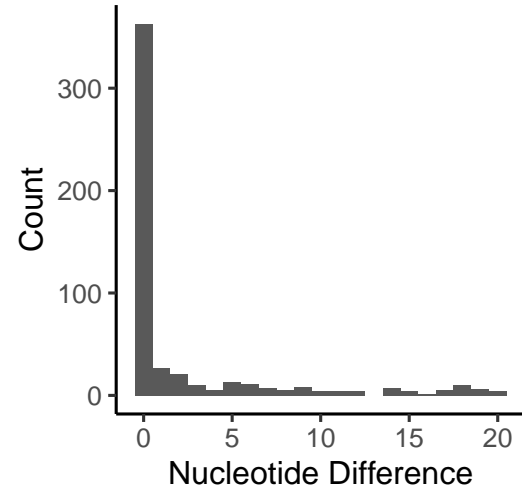
IGHV2-70*01

204 sequences assigned
168 (82.4%) exact matches, in which:
168 unique CDR3
5 unique J



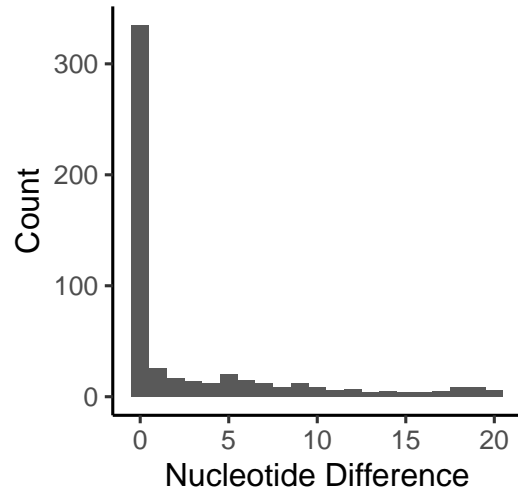
IGHV3-9*01

529 sequences assigned
363 (68.6%) exact matches, in which:
358 unique CDR3
6 unique J



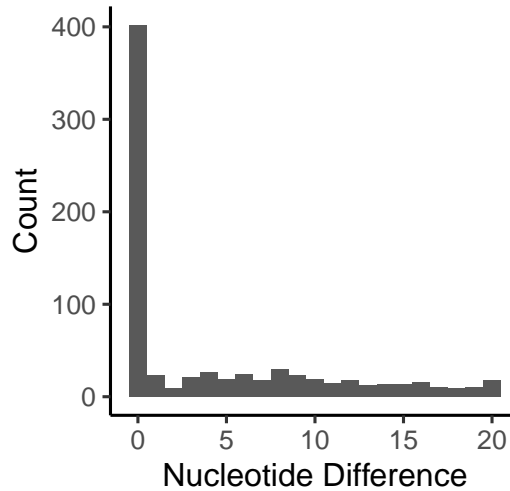
IGHV2-5*02

605 sequences assigned
335 (55.4%) exact matches, in which:
334 unique CDR3
6 unique J



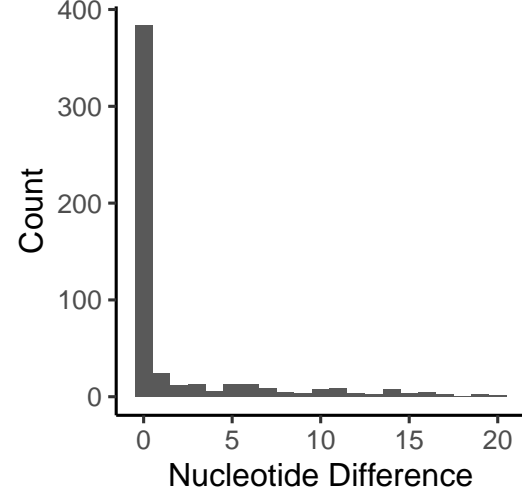
IGHV3-7*01

787 sequences assigned
402 (51.1%) exact matches, in which:
398 unique CDR3
6 unique J



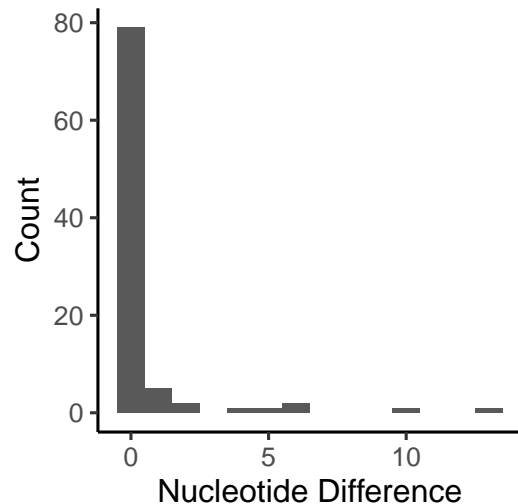
IGHV3-11*01

558 sequences assigned
384 (68.8%) exact matches, in which:
369 unique CDR3
6 unique J



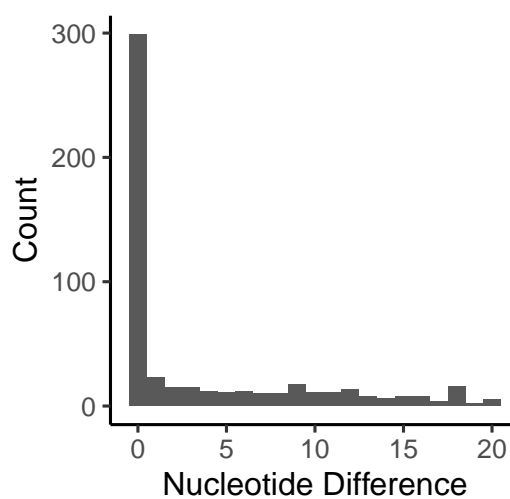
IGHV2-26*01

95 sequences assigned
79 (83.2%) exact matches, in which:
79 unique CDR3
5 unique J



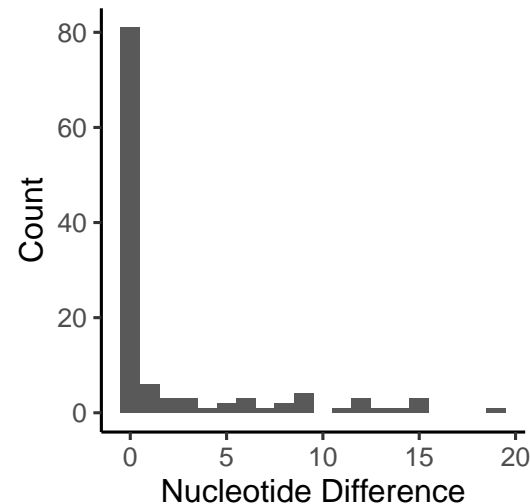
IGHV3-7*03

545 sequences assigned
299 (54.9%) exact matches, in which:
291 unique CDR3
6 unique J



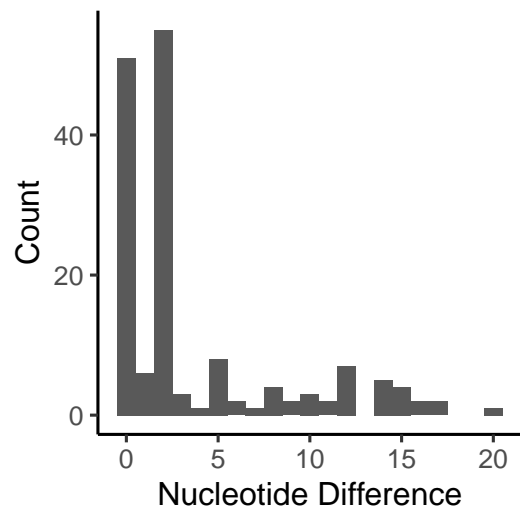
IGHV3-11*06

118 sequences assigned
81 (68.6%) exact matches, in which:
78 unique CDR3
5 unique J



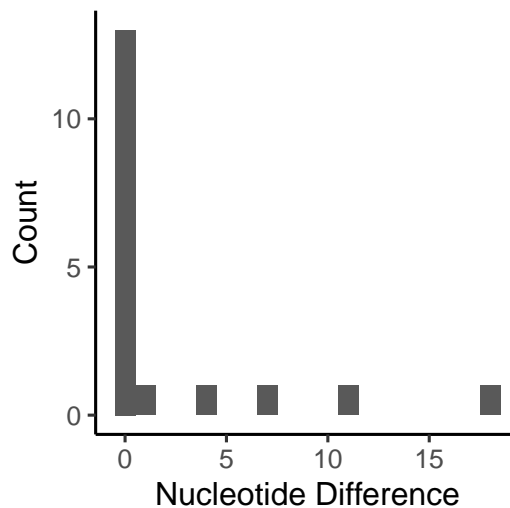
IGHV3-13*01

165 sequences assigned
51 (30.9%) exact matches, in which:
50 unique CDR3
6 unique J



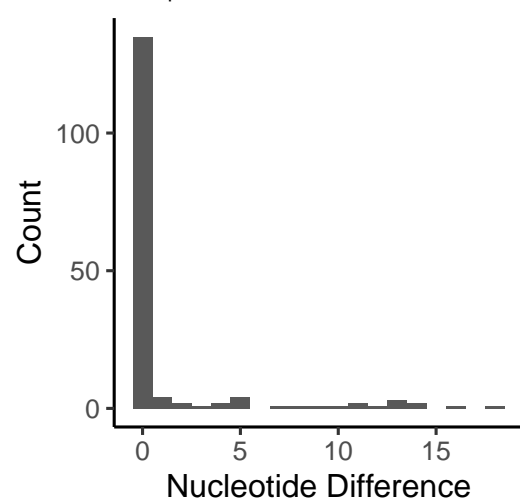
IGHV3-20*03_04

18 sequences assigned
13 (72.2%) exact matches, in which:
13 unique CDR3
3 unique J



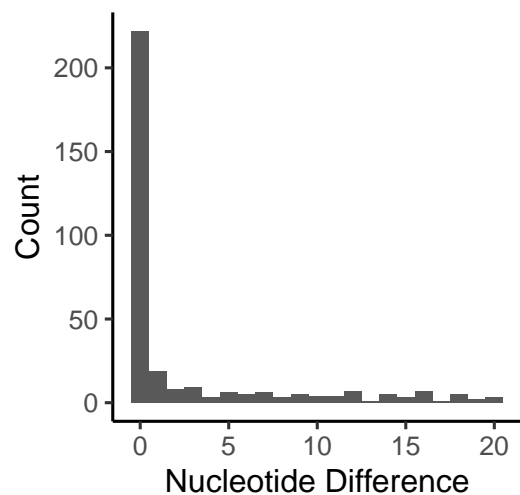
IGHV3-43*01

166 sequences assigned
135 (81.3%) exact matches, in which:
134 unique CDR3
6 unique J



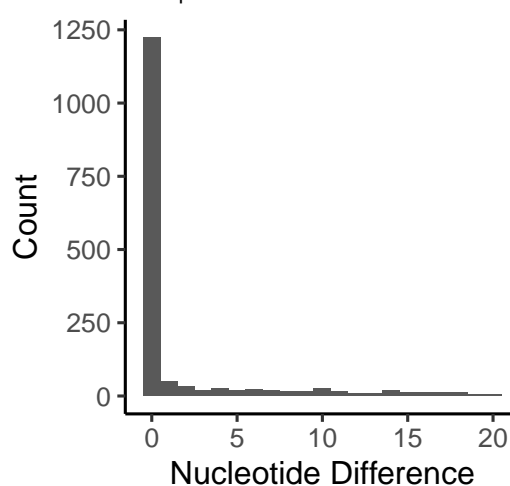
IGHV3-15*07

347 sequences assigned
222 (64%) exact matches, in which:
221 unique CDR3
4 unique J



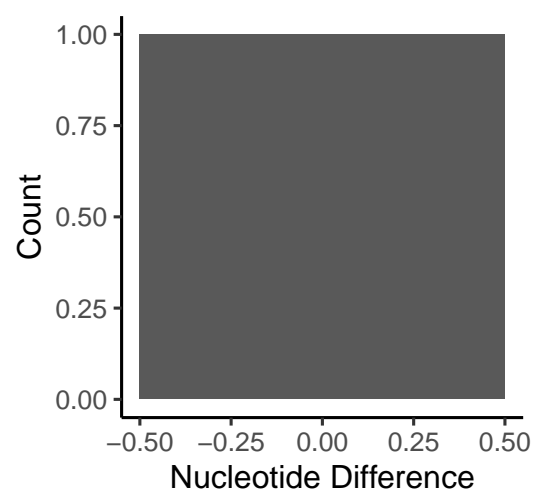
IGHV3-21*01_02

1615 sequences assigned
1223 (75.7%) exact matches, in which:
1204 unique CDR3
6 unique J



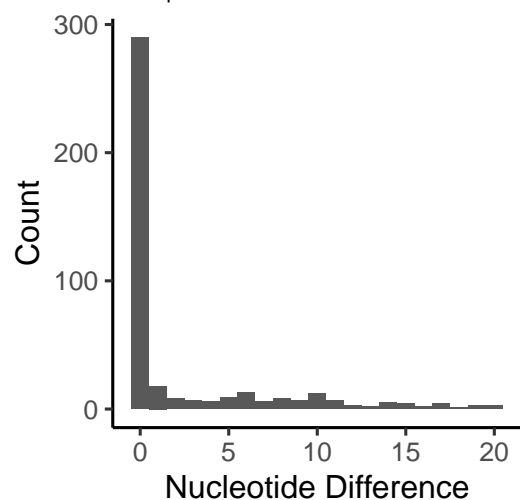
IGHV3-47*02

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



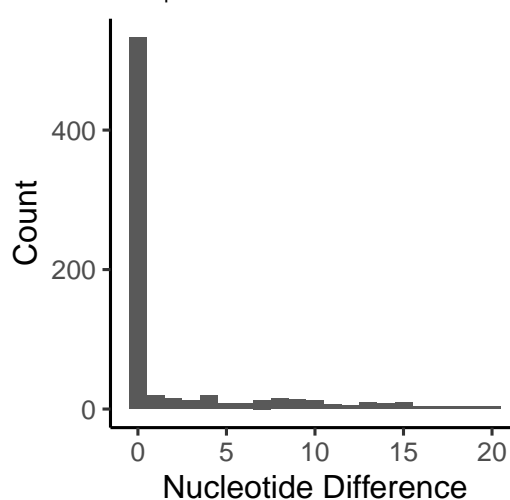
IGHV3-15*01_02

428 sequences assigned
290 (67.8%) exact matches, in which:
288 unique CDR3
6 unique J



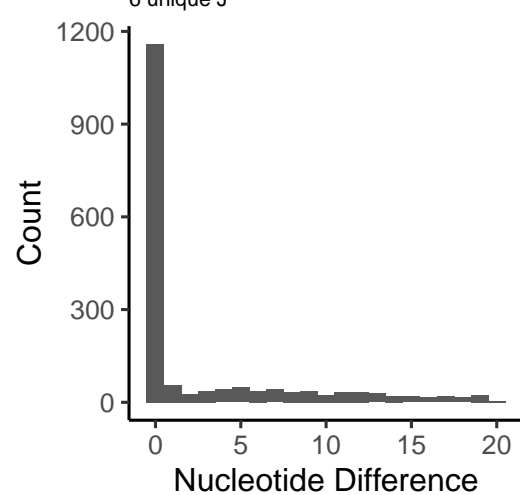
IGHV3-33*01

770 sequences assigned
533 (69.2%) exact matches, in which:
527 unique CDR3
6 unique J



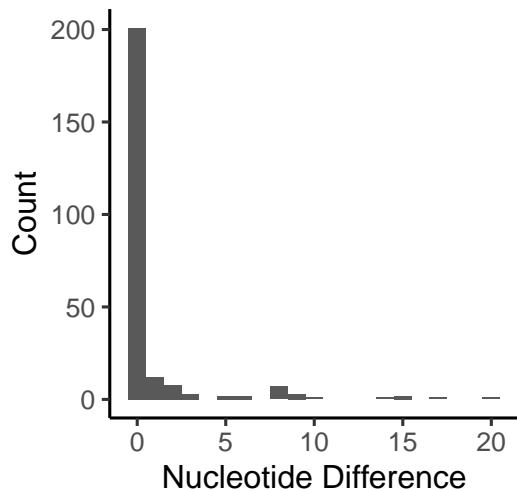
IGHV3-48*02

1830 sequences assigned
1159 (63.3%) exact matches, in which:
1142 unique CDR3
6 unique J



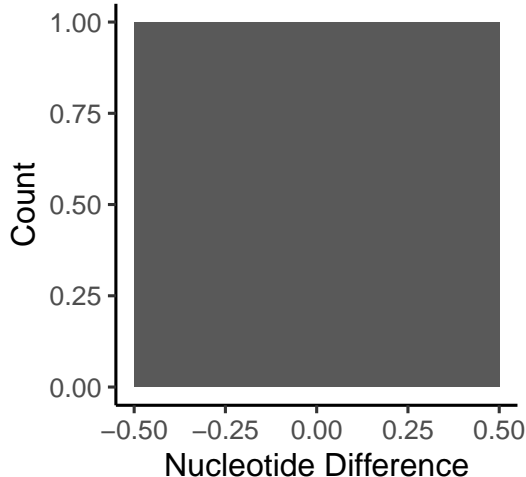
IGHV3–49*03_05

253 sequences assigned
201 (79.4%) exact matches, in which:
201 unique CDR3
6 unique J



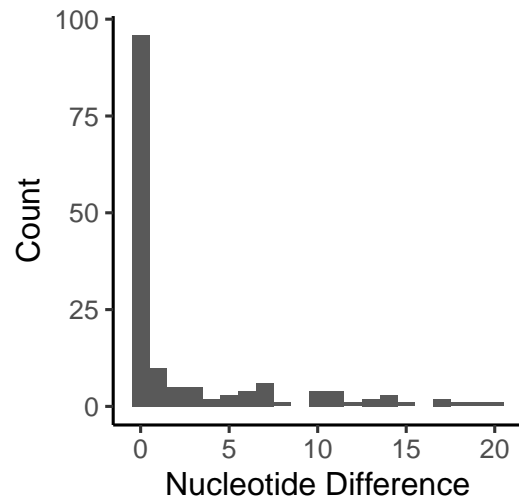
IGHV3–66*03

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



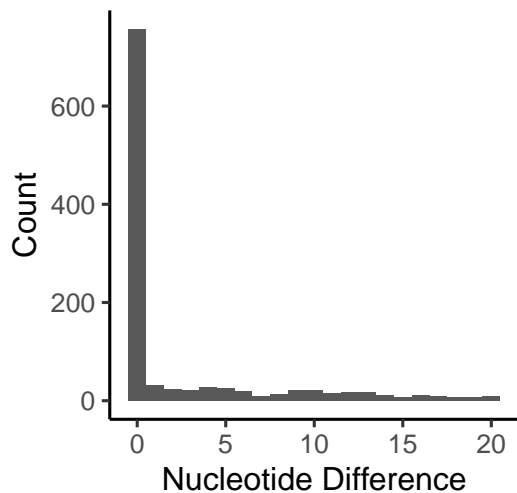
IGHV3–73*01_02

158 sequences assigned
96 (60.8%) exact matches, in which:
96 unique CDR3
6 unique J



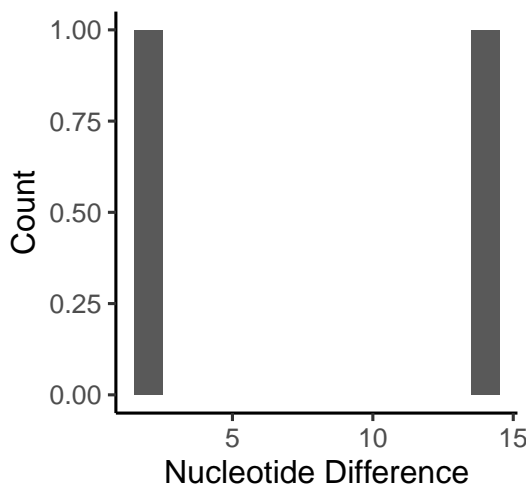
IGHV3–53*01_02

1150 sequences assigned
757 (65.8%) exact matches, in which:
743 unique CDR3
6 unique J



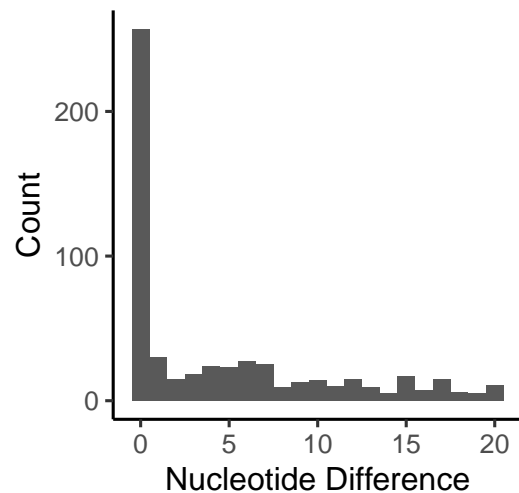
IGHV3–66*04

2 sequences assigned
No exact matches.



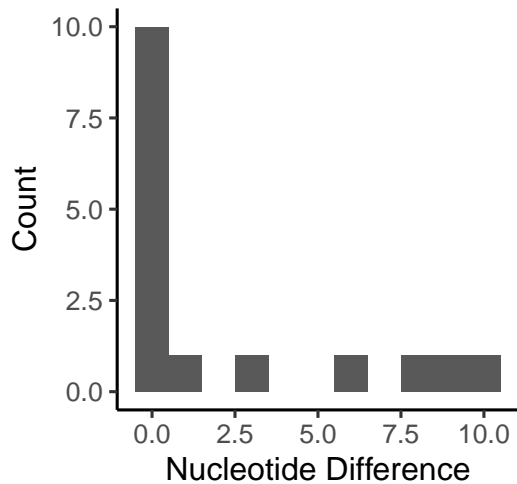
IGHV3–74*01_02

588 sequences assigned
257 (43.7%) exact matches, in which:
252 unique CDR3
6 unique J



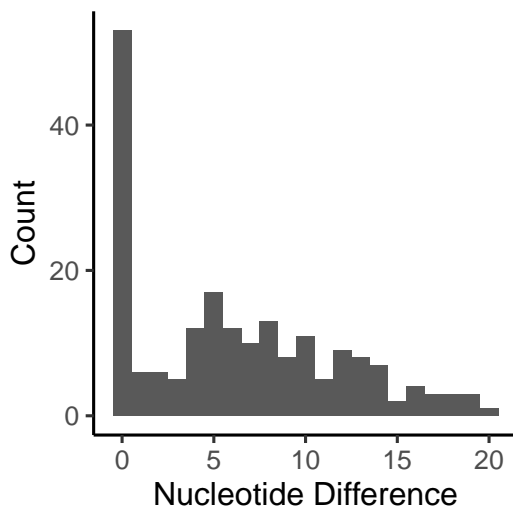
IGHV3–64*02_07

16 sequences assigned
10 (62.5%) exact matches, in which:
10 unique CDR3
4 unique J



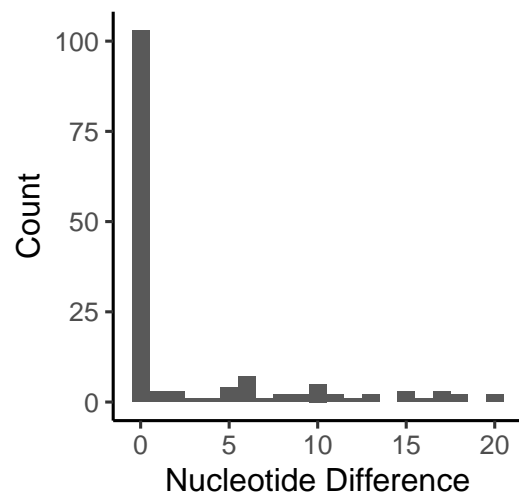
IGHV3–72*01

215 sequences assigned
53 (24.7%) exact matches, in which:
52 unique CDR3
5 unique J



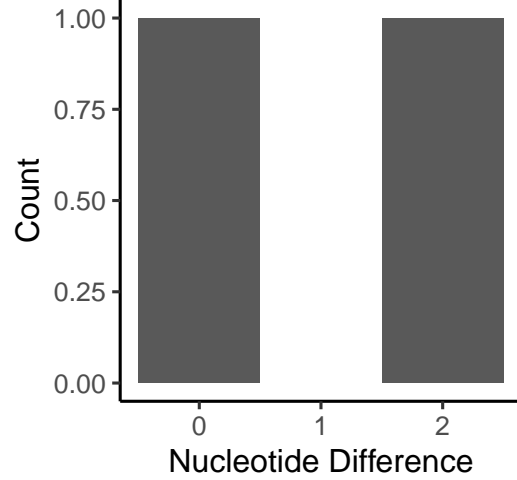
IGHV3–64D*06

155 sequences assigned
103 (66.5%) exact matches, in which:
101 unique CDR3
6 unique J



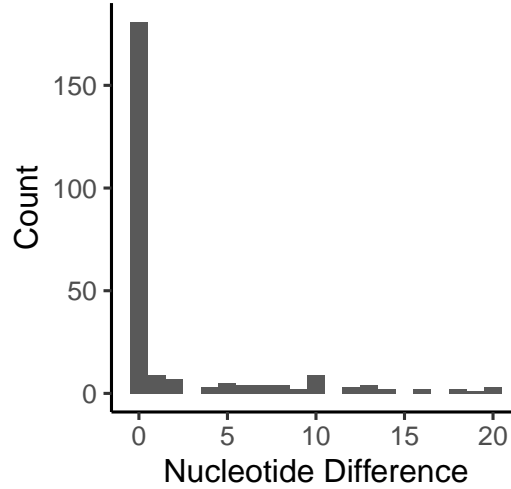
IGHV4-28*03

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



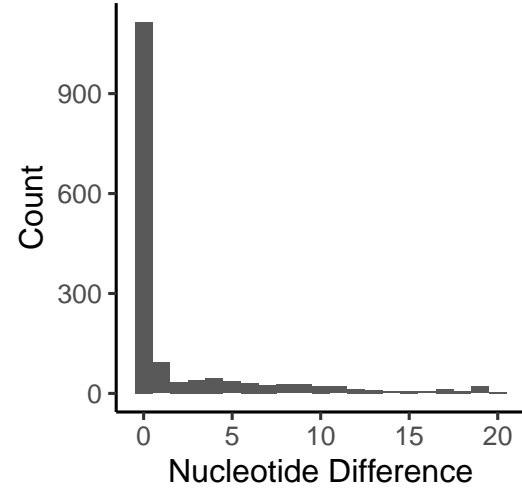
IGHV4-30-4*07

260 sequences assigned
181 (69.6%) exact matches, in which:
177 unique CDR3
5 unique J



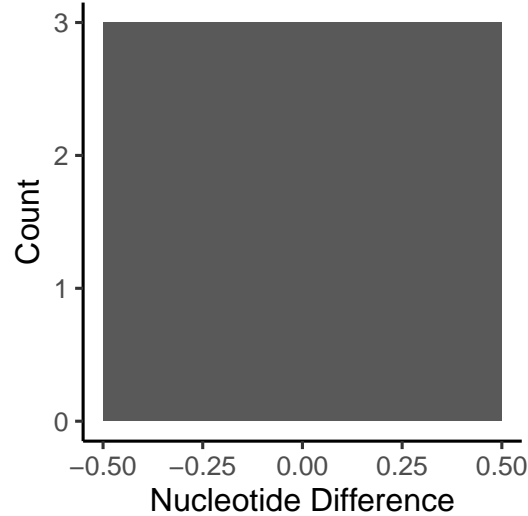
IGHV4-39*01_05

1700 sequences assigned
1116 (65.6%) exact matches, in which:
1106 unique CDR3
6 unique J



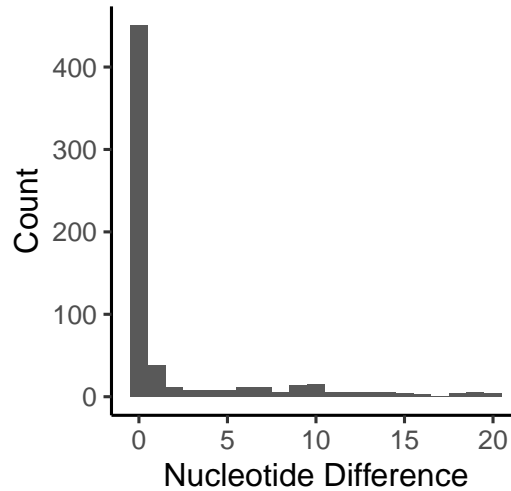
IGHV4-28*01_07

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



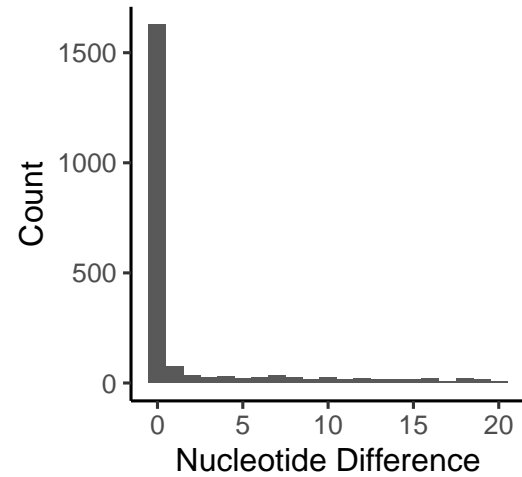
IGHV4-31*03_04

678 sequences assigned
451 (66.5%) exact matches, in which:
448 unique CDR3
6 unique J



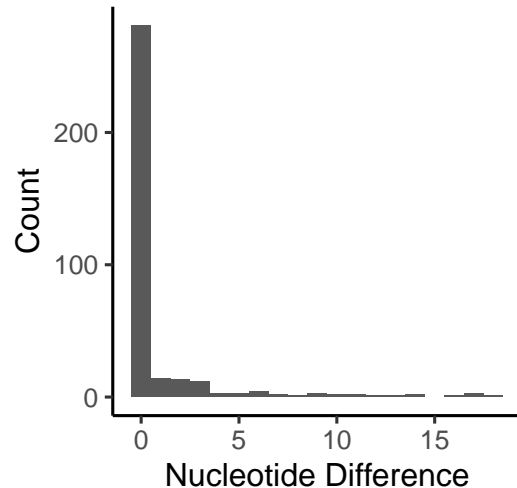
IGHV4-59*01_07

2177 sequences assigned
1627 (74.7%) exact matches, in which:
1610 unique CDR3
6 unique J



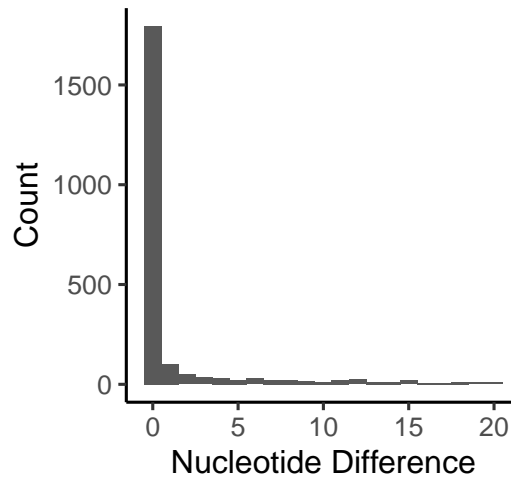
IGHV4-30-2*01

354 sequences assigned
281 (79.4%) exact matches, in which:
277 unique CDR3
6 unique J



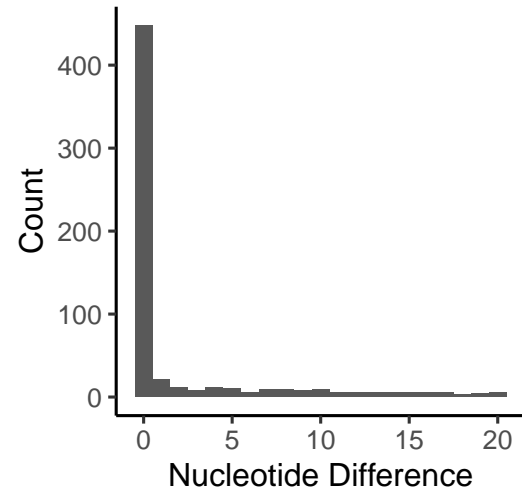
IGHV4-34*01_02

2365 sequences assigned
1795 (75.9%) exact matches, in which:
1757 unique CDR3
6 unique J



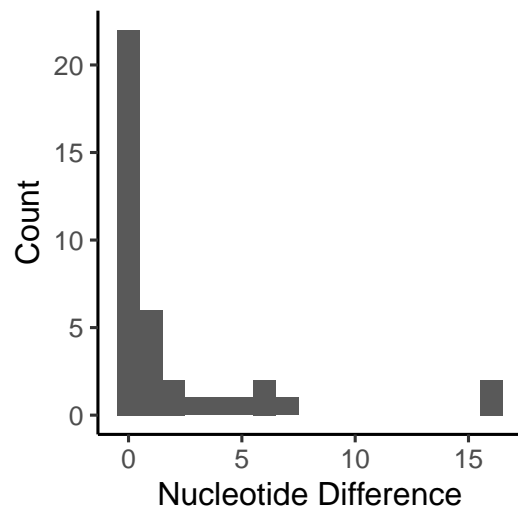
IGHV4-61*01

624 sequences assigned
448 (71.8%) exact matches, in which:
441 unique CDR3
6 unique J



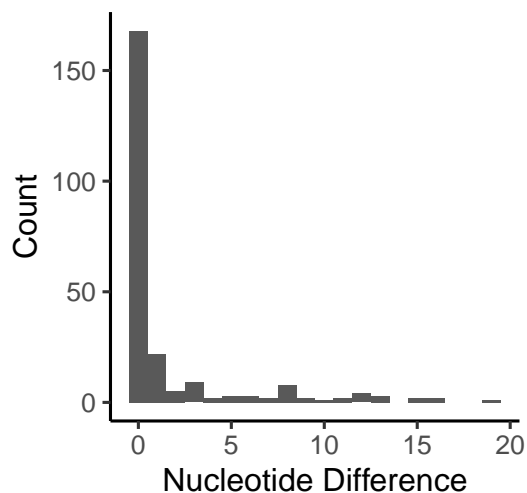
IGHV5-10-1*01_03

40 sequences assigned
22 (55%) exact matches, in which:
22 unique CDR3
5 unique J



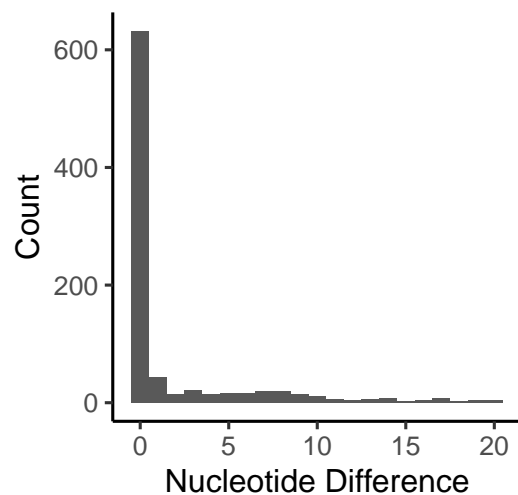
IGHV7-4-1*02

242 sequences assigned
168 (69.4%) exact matches, in which:
168 unique CDR3
6 unique J



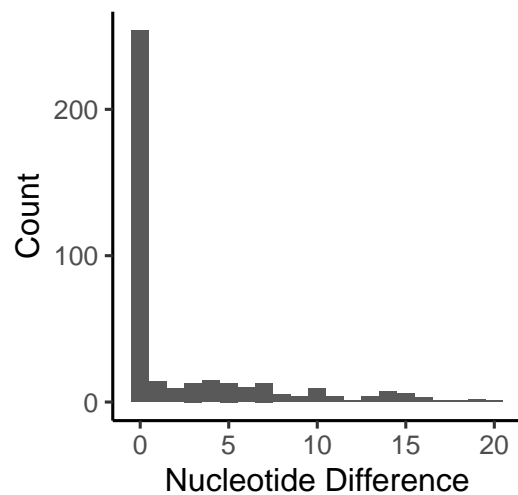
IGHV5-51*01_03

890 sequences assigned
632 (71%) exact matches, in which:
631 unique CDR3
6 unique J



IGHV6-1*01_02

397 sequences assigned
254 (64%) exact matches, in which:
254 unique CDR3
6 unique J





Warning – no inferred sequences found.

Novel sequence(s)IGHV4–59*02_G88AIGHV5–51*07_A128G are not listed in the genotype and will be ignored.

Warning – no inferred sequences found.

Novel sequence(s)IGHV4–59*02_G88AIGHV5–51*07_A128G are not listed in the genotype and will be ignored.