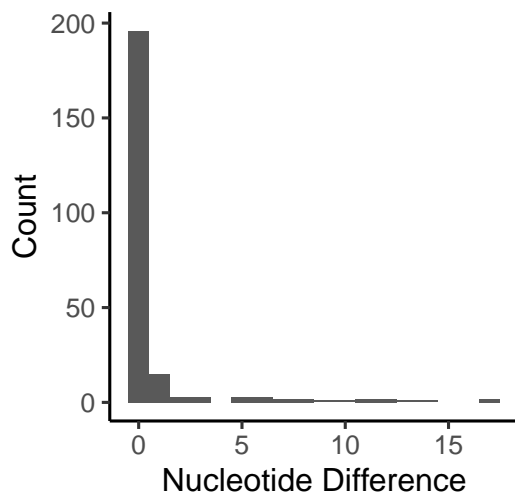


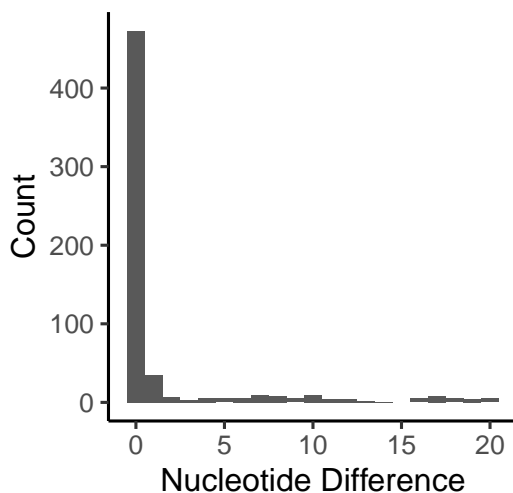
IGHV1-2*04

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



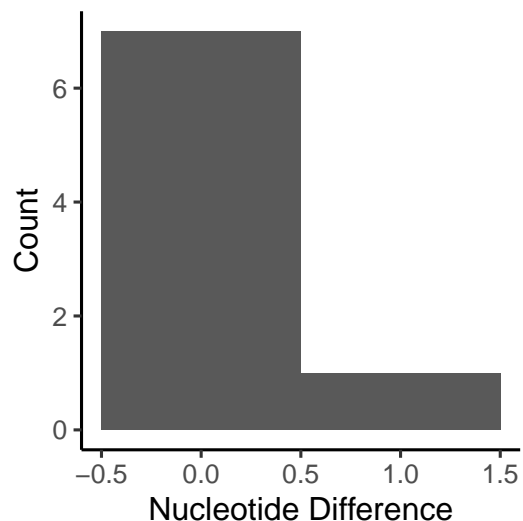
IGHV1-8*01

628 sequences assigned
473 (75.3%) exact matches, in which:
472 unique CDR3
6 unique J



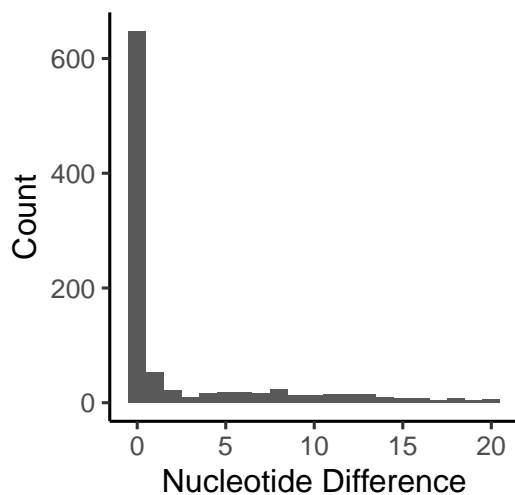
IGHV1-45*02

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



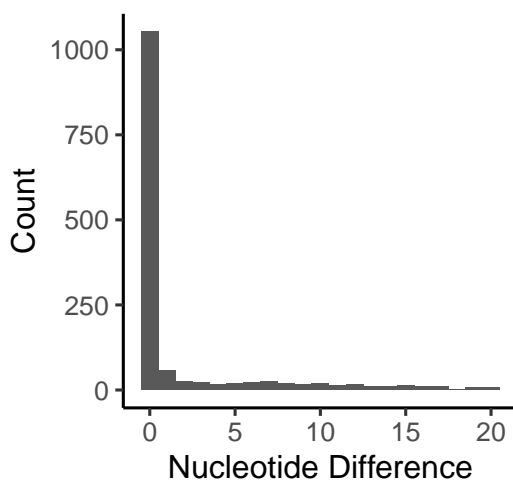
IGHV1-2*06

976 sequences assigned
648 (66.4%) exact matches, in which:
648 unique CDR3
6 unique J



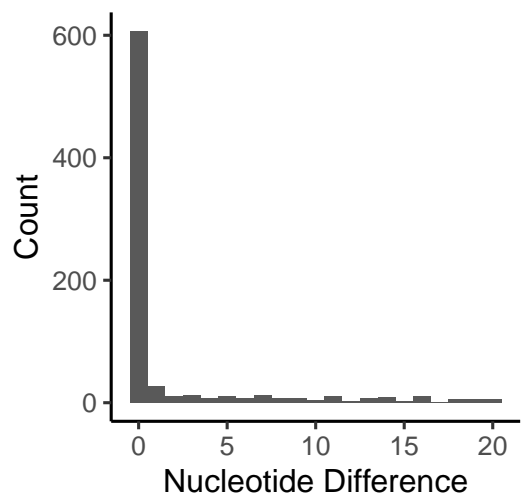
IGHV1-18*01

1447 sequences assigned
1053 (72.8%) exact matches, in which:
1050 unique CDR3
6 unique J



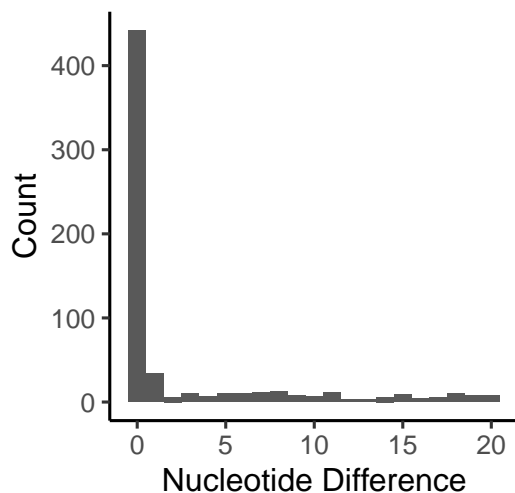
IGHV1-46*01

795 sequences assigned
607 (76.4%) exact matches, in which:
607 unique CDR3
6 unique J



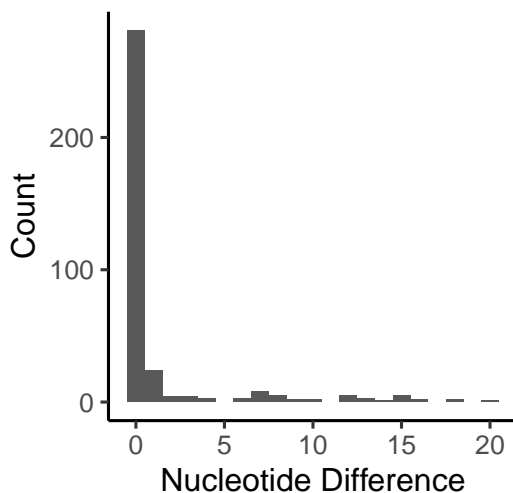
IGHV1-3*01_05

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



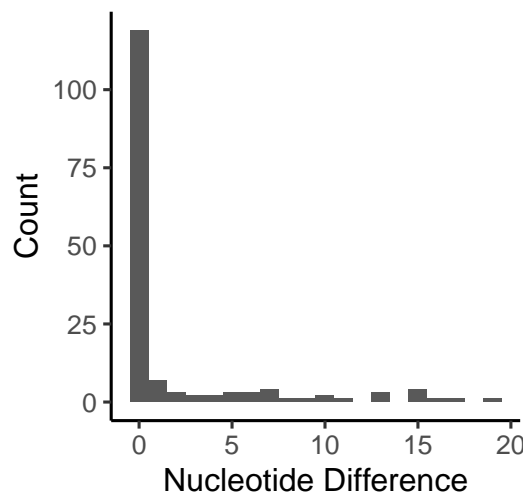
IGHV1-24*01

362 sequences assigned
281 (77.6%) exact matches, in which:
281 unique CDR3
6 unique J



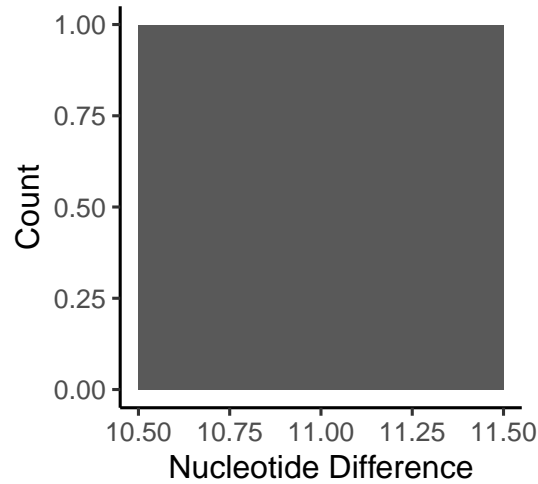
IGHV1-58*01_03

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



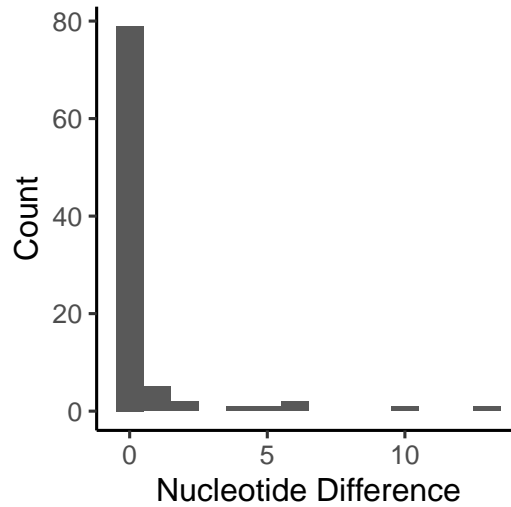
IGHV1-68*01

1 sequences assigned
No exact matches.



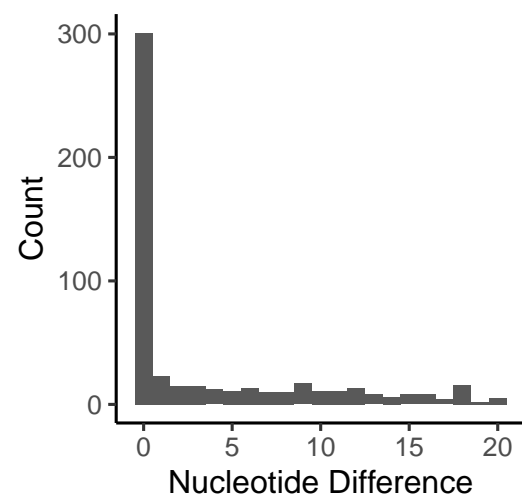
IGHV2-26*01

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



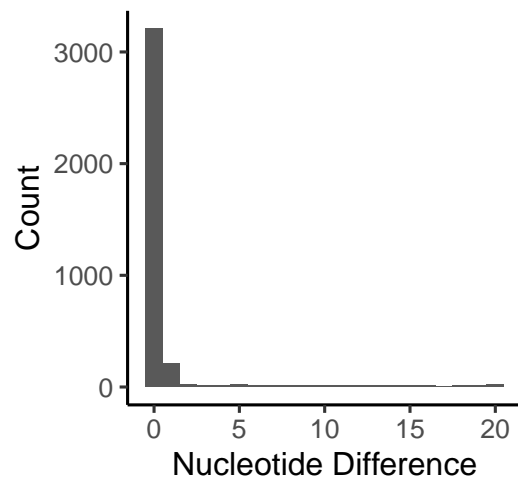
IGHV3-7*03

548 sequences assigned
301 (54.9%) exact matches, in which:
293 unique CDR3
6 unique J



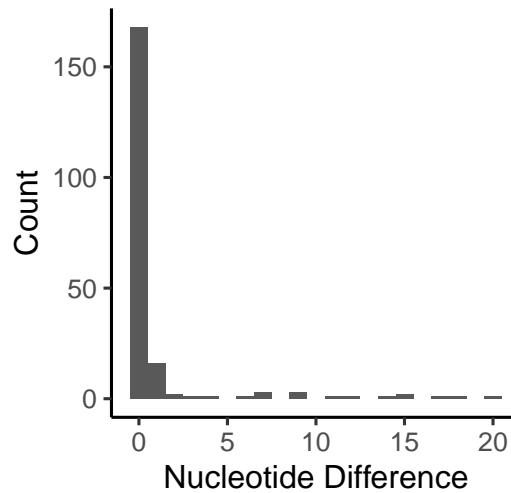
IGHV1-69*01_12_13

3762 sequences assigned
3208 (85.3%) exact matches, in which:
3203 unique CDR3
6 unique J



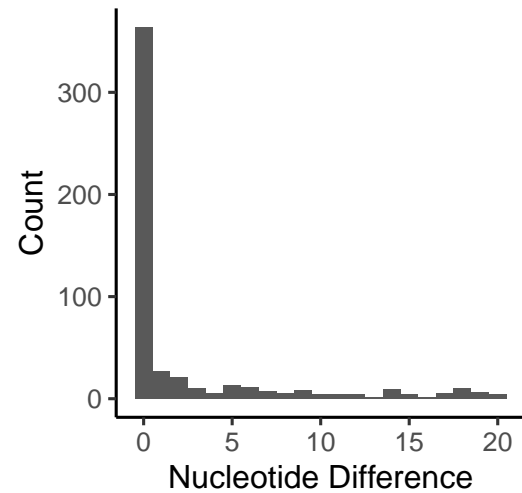
IGHV2-70*01

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



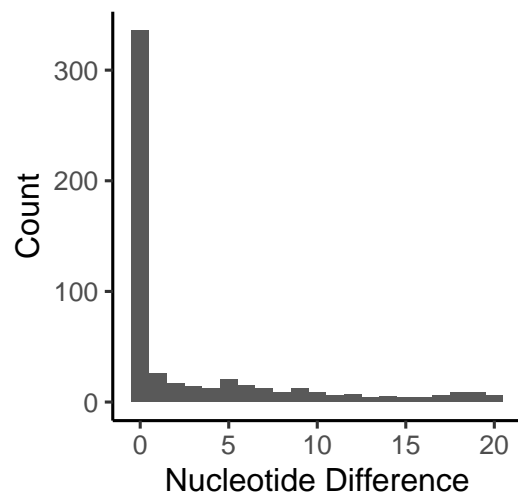
IGHV3-9*01

533 sequences assigned
364 (68.3%) exact matches, in which:
359 unique CDR3
6 unique J



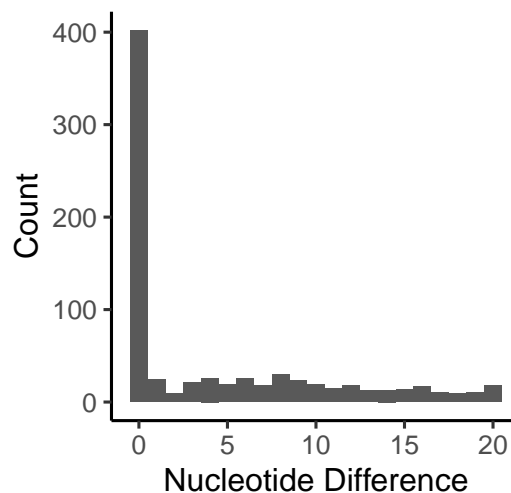
IGHV2-5*02

607 sequences assigned
336 (55.4%) exact matches, in which:
335 unique CDR3
6 unique J



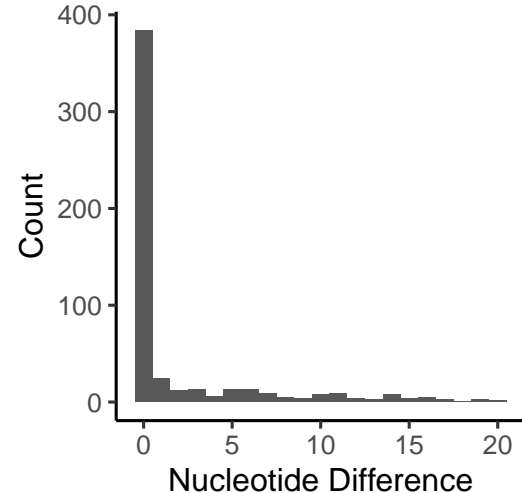
IGHV3-7*01

790 sequences assigned
402 (50.9%) exact matches, in which:
398 unique CDR3
6 unique J



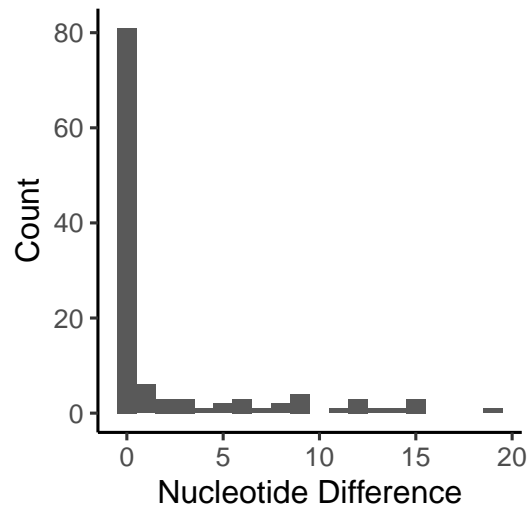
IGHV3-11*01

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



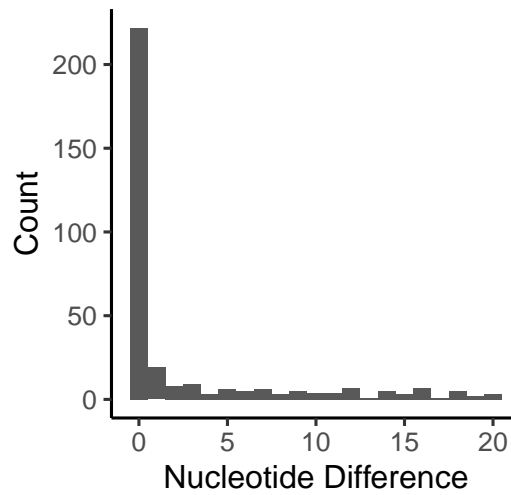
IGHV3-11*06

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



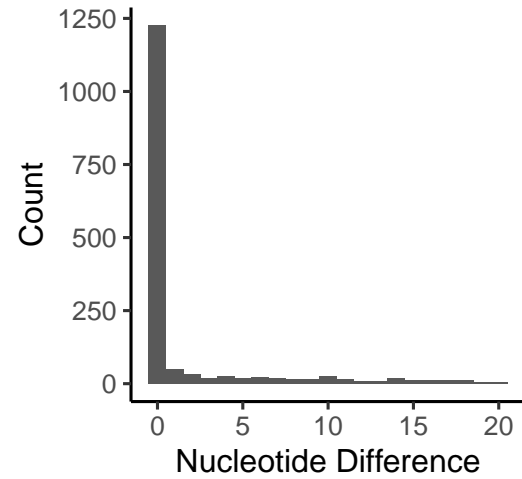
IGHV3-15*07

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



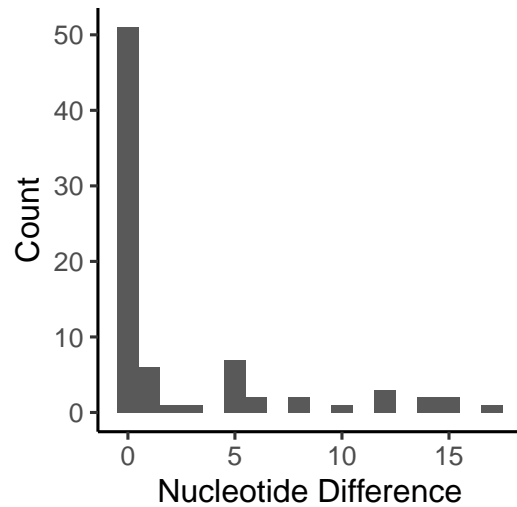
IGHV3-21*01_02

1622 sequences assigned
1226 (75.6%) exact matches, in which:
1207 unique CDR3
6 unique J



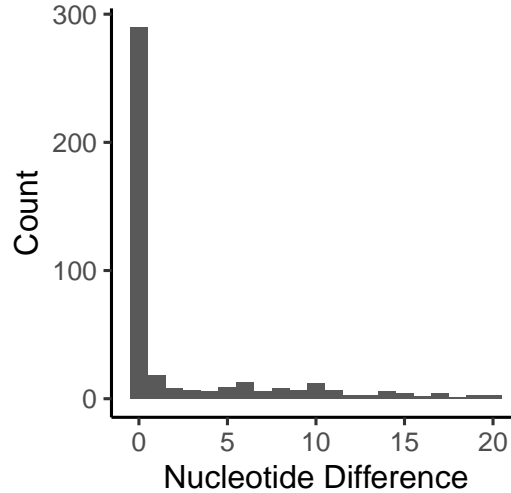
IGHV3-13*01

80 sequences assigned
51 (63.8%) exact matches, in which:
50 unique CDR3
6 unique J



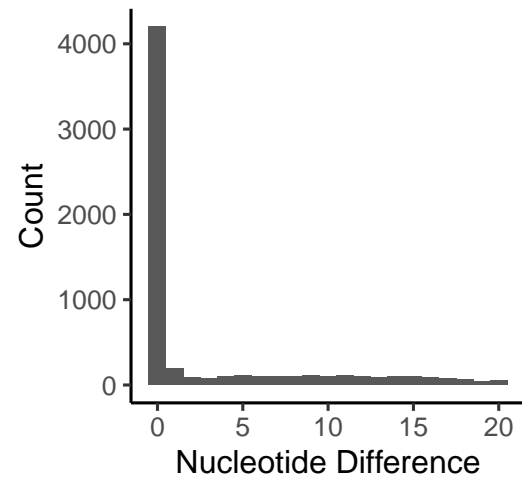
IGHV3-15*01_02

432 sequences assigned
290 (67.1%) exact matches, in which:
288 unique CDR3
6 unique J



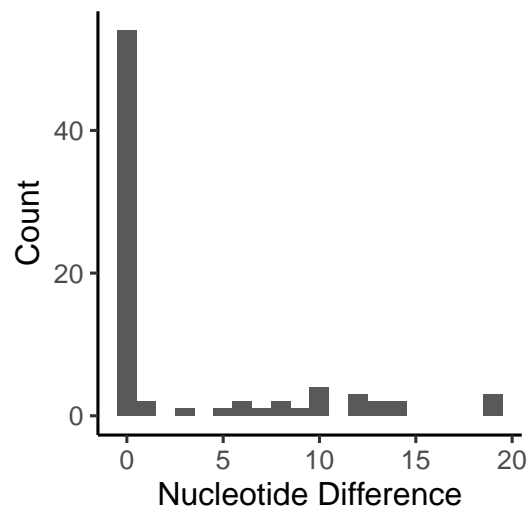
IGHV3-23*01_04

6372 sequences assigned
4200 (65.9%) exact matches, in which:
4115 unique CDR3
6 unique J



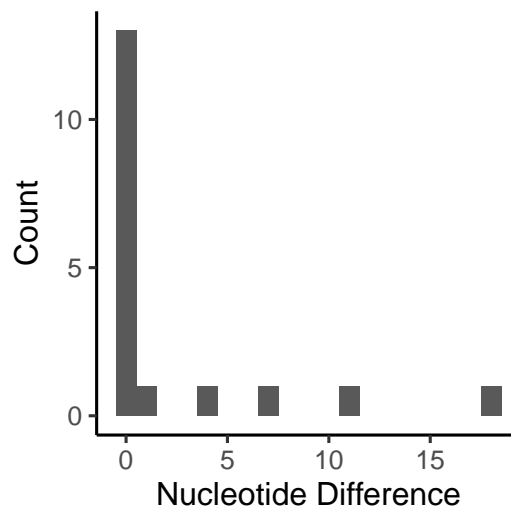
IGHV3-13*01_G290A_T3I

79 sequences assigned
54 (68.4%) exact matches, in which:
54 unique CDR3
5 unique J



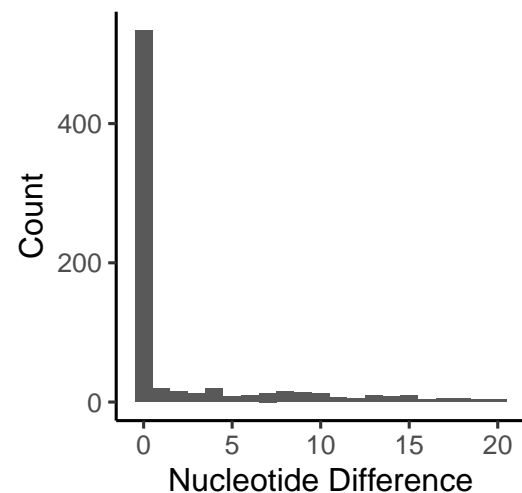
IGHV3-20*03_04

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



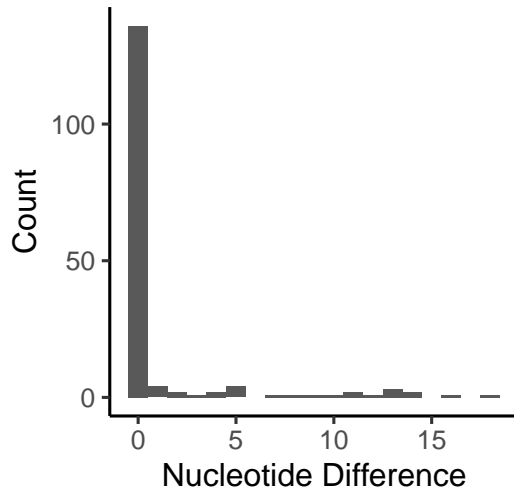
IGHV3-33*01

775 sequences assigned
534 (68.9%) exact matches, in which:
528 unique CDR3
6 unique J



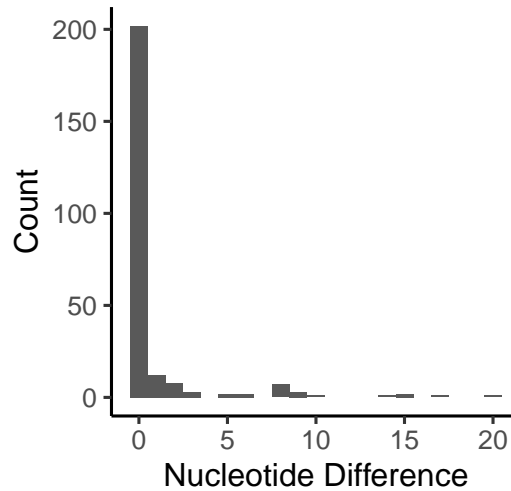
IGHV3-43*01

167 sequences assigned
136 (81.4%) exact matches, in which:
135 unique CDR3
6 unique J



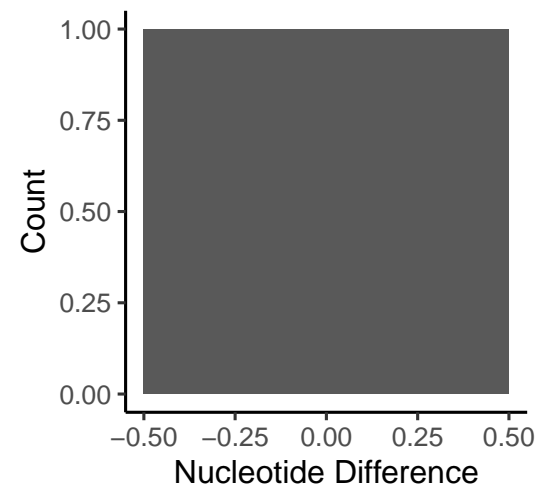
IGHV3-49*03_05

254 sequences assigned
202 (79.5%) exact matches, in which:
202 unique CDR3
6 unique J



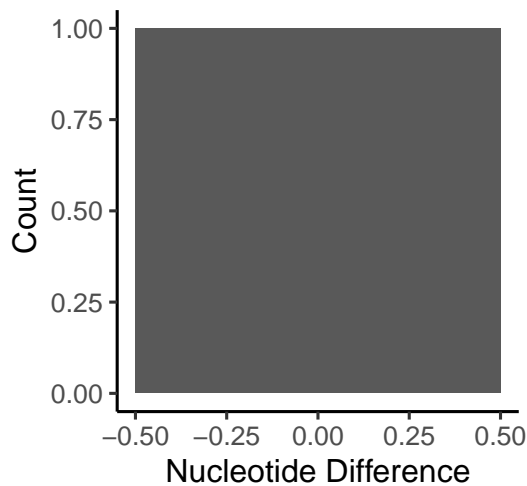
IGHV3-66*03

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



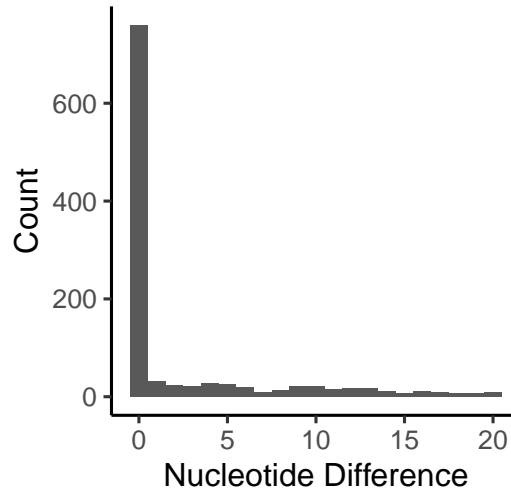
IGHV3-47*02

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



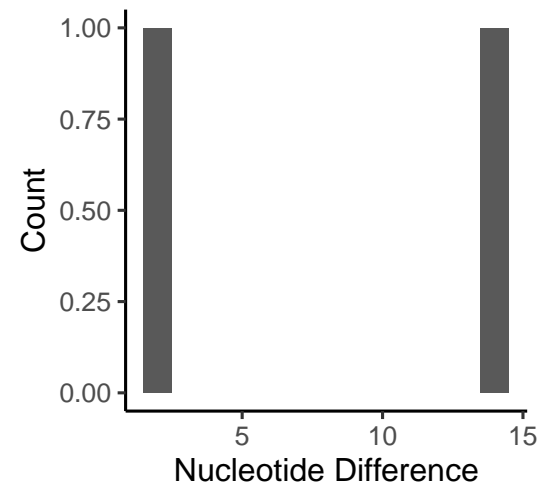
IGHV3-53*01_02

1155 sequences assigned
760 (65.8%) exact matches, in which:
746 unique CDR3
6 unique J



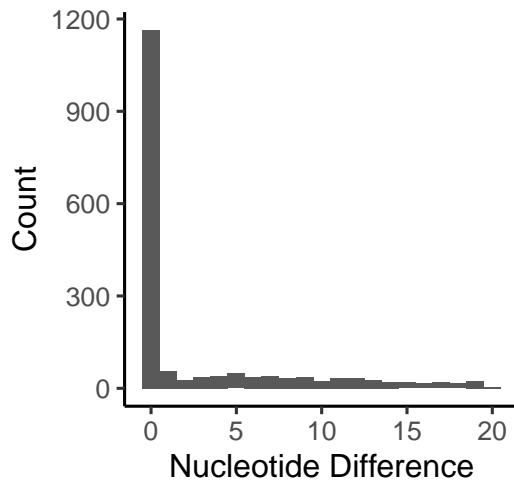
IGHV3-66*04

2 sequences assigned
No exact matches.



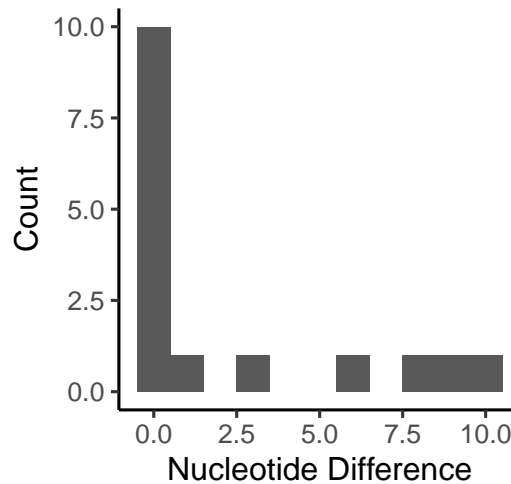
IGHV3-48*02

1835 sequences assigned
1164 (63.4%) exact matches, in which:
1146 unique CDR3
6 unique J



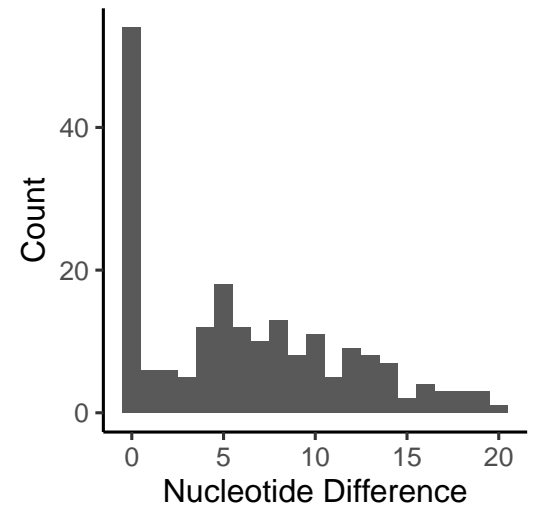
IGHV3-64*02_07

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



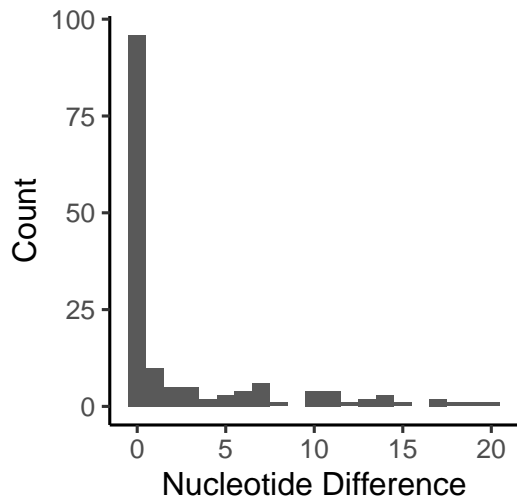
IGHV3-72*01

217 sequences assigned
54 (24.9%) exact matches, in which:
53 unique CDR3
5 unique J



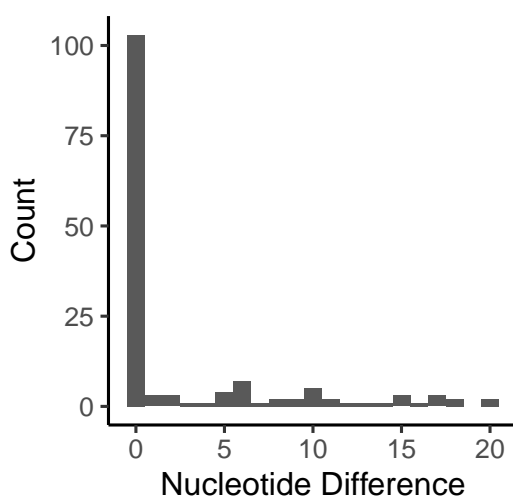
IGHV3-73*01_02

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



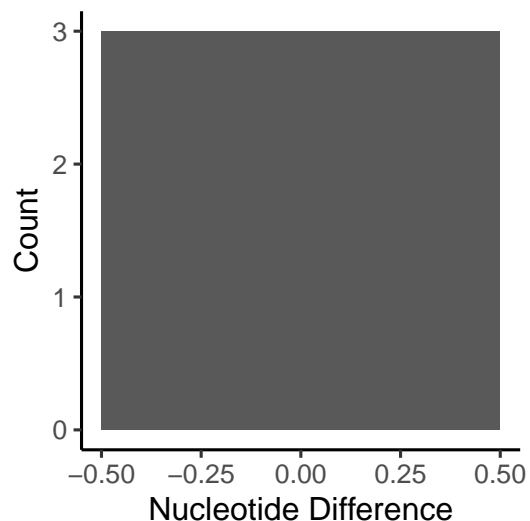
IGHV3-64D*06

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



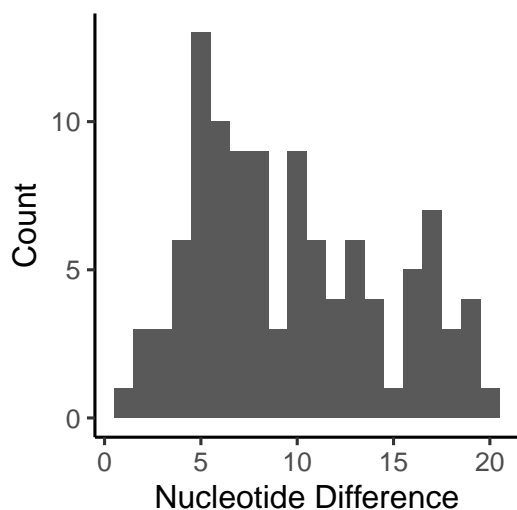
IGHV4-28*01_07

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



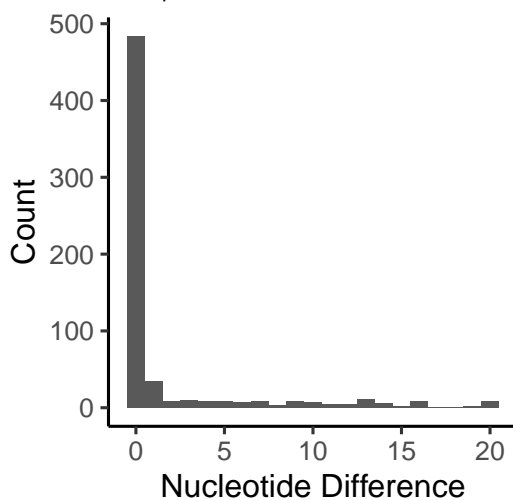
IGHV3-74*03

130 sequences assigned
No exact matches.



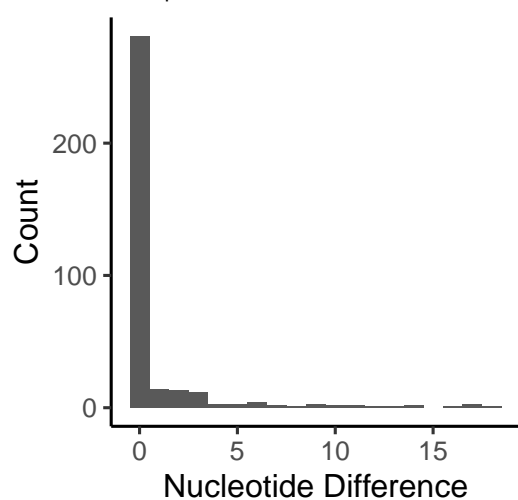
IGHV4-4*02_03

662 sequences assigned
484 (73.1%) exact matches, in which:
483 unique CDR3
6 unique J



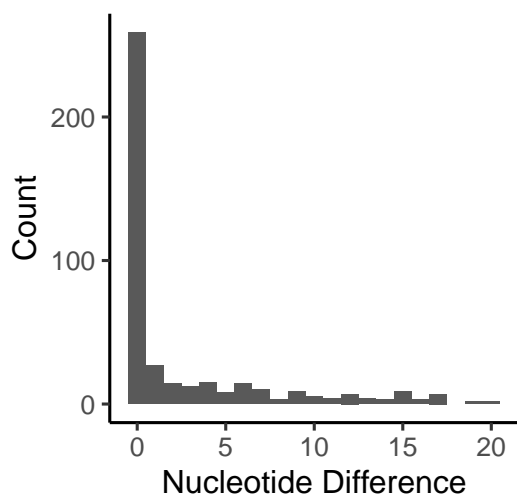
IGHV4-30-2*01

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



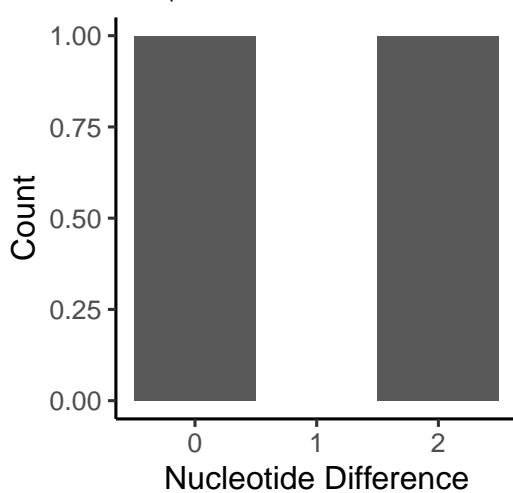
IGHV3-74*01_02

430 sequences assigned
259 (60.2%) exact matches, in which:
254 unique CDR3
6 unique J



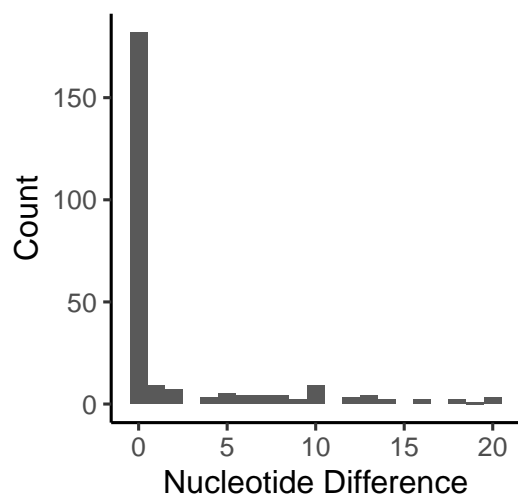
IGHV4-28*03

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



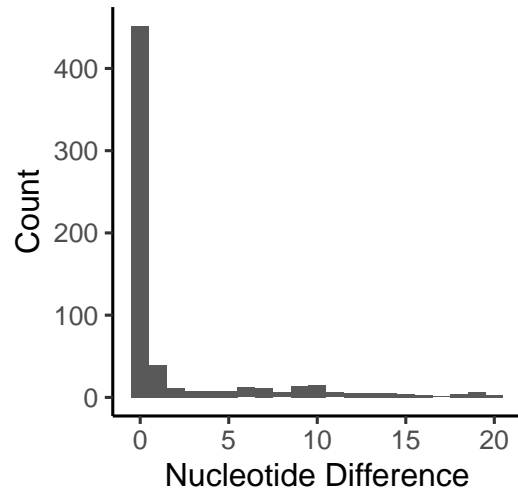
IGHV4-30-4*07

261 sequences assigned
182 (69.7%) exact matches, in which:
178 unique CDR3
5 unique J



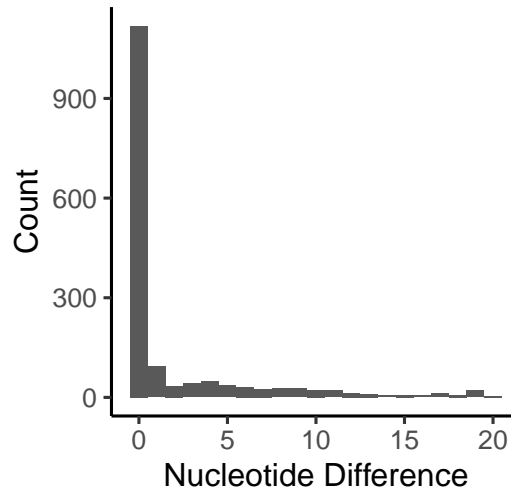
IGHV4-31*02

678 sequences assigned
452 (66.7%) exact matches, in which:
449 unique CDR3
6 unique J



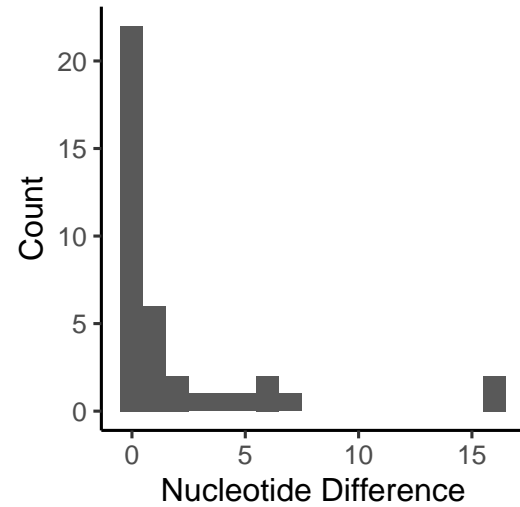
IGHV4-39*02_C258G

1705 sequences assigned
1119 (65.6%) exact matches, in which:
1109 unique CDR3
6 unique J



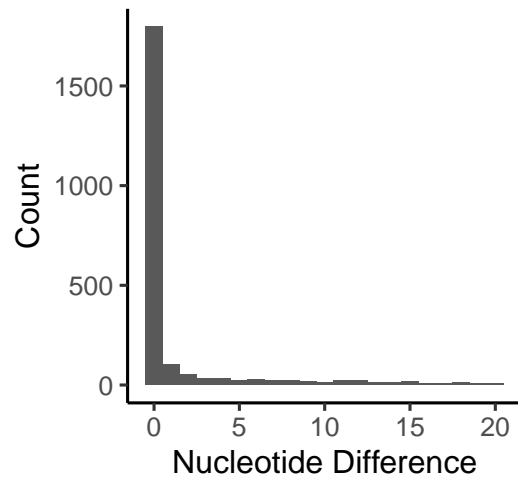
IGHV5-10-1*01_03

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



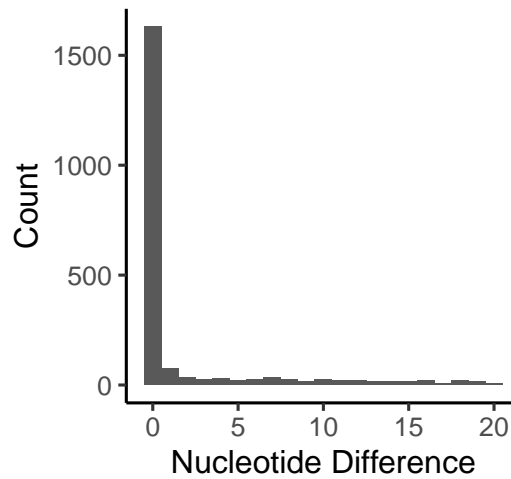
IGHV4-34*01_02

2368 sequences assigned
1797 (75.9%) exact matches, in which:
1759 unique CDR3
6 unique J



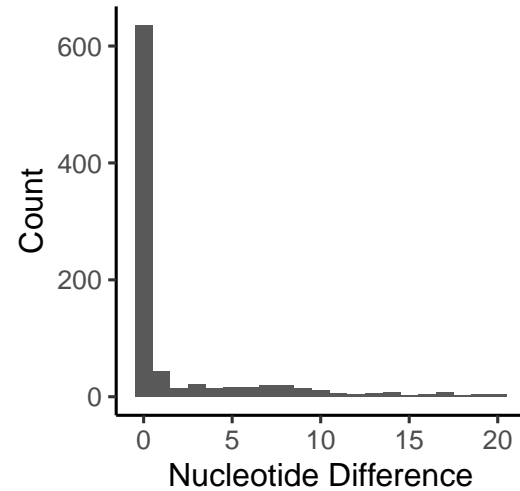
IGHV4-59*02_G88A

2181 sequences assigned
1630 (74.7%) exact matches, in which:
1613 unique CDR3
6 unique J



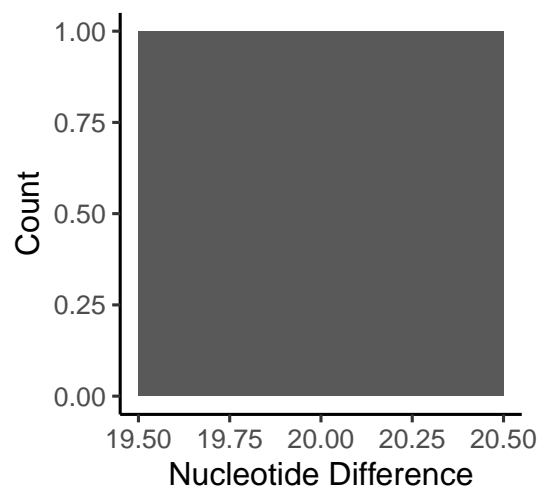
IGHV5-51*07_A128G

896 sequences assigned
636 (71%) exact matches, in which:
635 unique CDR3
6 unique J



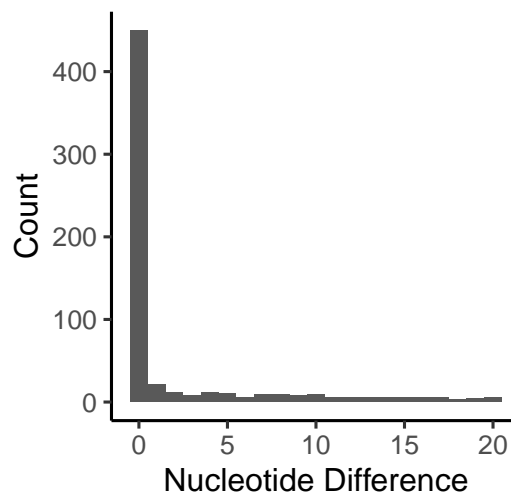
IGHV4-38-2*02

2 sequences assigned
No exact matches.



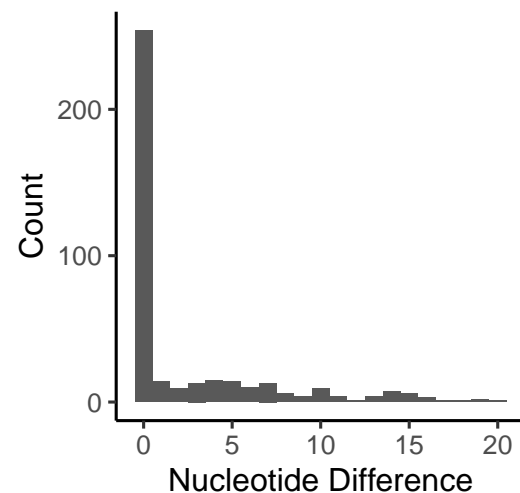
IGHV4-61*01

626 sequences assigned
450 (71.9%) exact matches, in which:
443 unique CDR3
6 unique J



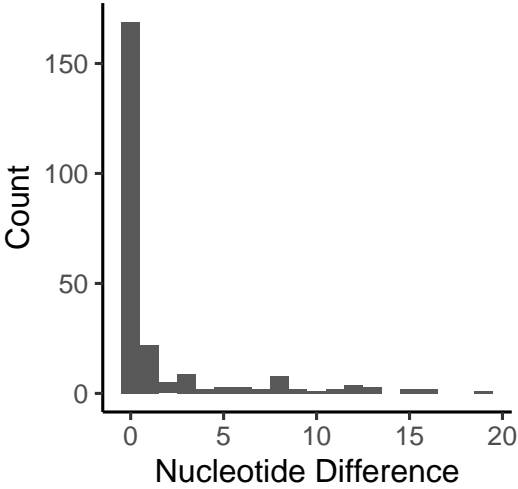
IGHV6-1*01_02

399 sequences assigned
254 (63.7%) exact matches, in which:
254 unique CDR3
6 unique J



IGHV7-4-1*02

243 sequences assigned
169 (69.5%) exact matches, in which:
169 unique CDR3
6 unique J





Warning – no inferred sequences found.