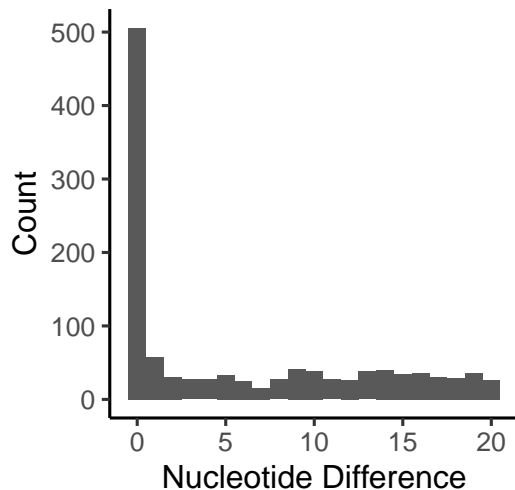


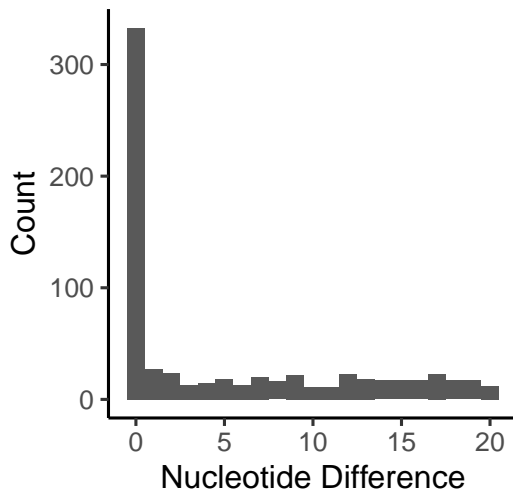
IGHV1-2*02

1348 sequences assigned
506 (37.5%) exact matches, in which:
504 unique CDR3
6 unique J



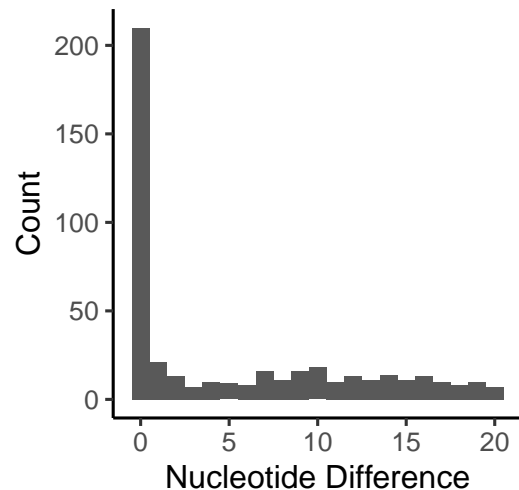
IGHV1-8*01

734 sequences assigned
333 (45.4%) exact matches, in which:
329 unique CDR3
6 unique J



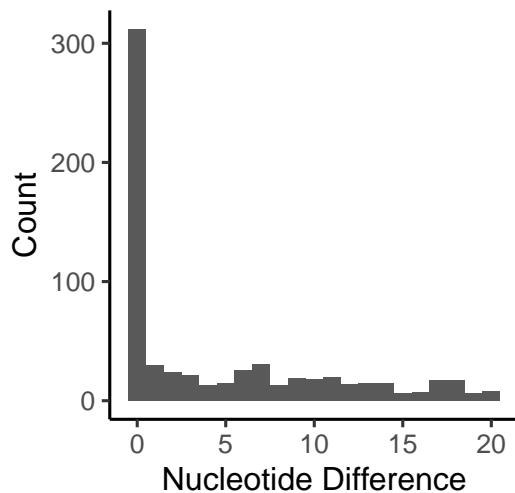
IGHV1-46*01

537 sequences assigned
210 (39.1%) exact matches, in which:
209 unique CDR3
5 unique J



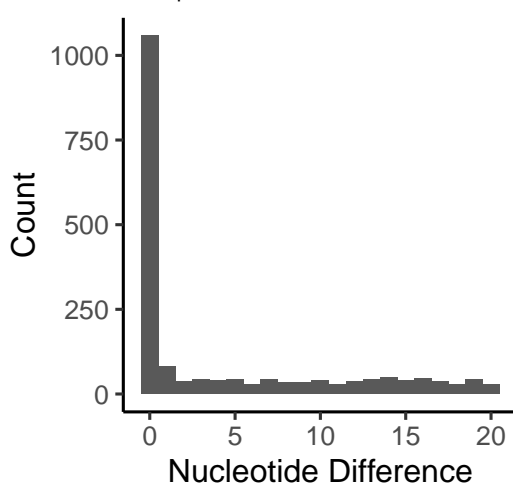
IGHV1-2*06

728 sequences assigned
312 (42.9%) exact matches, in which:
302 unique CDR3
6 unique J



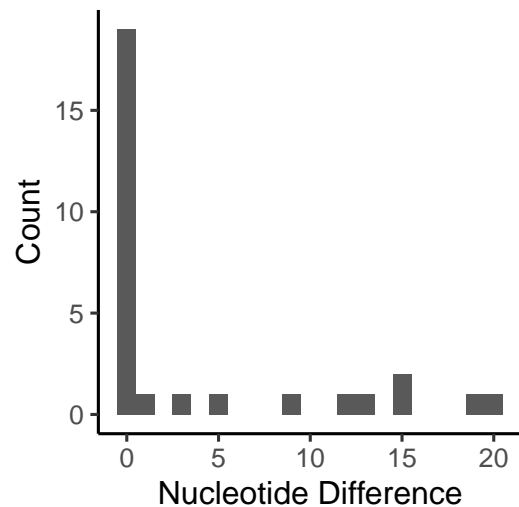
IGHV1-18*01

2075 sequences assigned
1058 (51%) exact matches, in which:
1042 unique CDR3
6 unique J



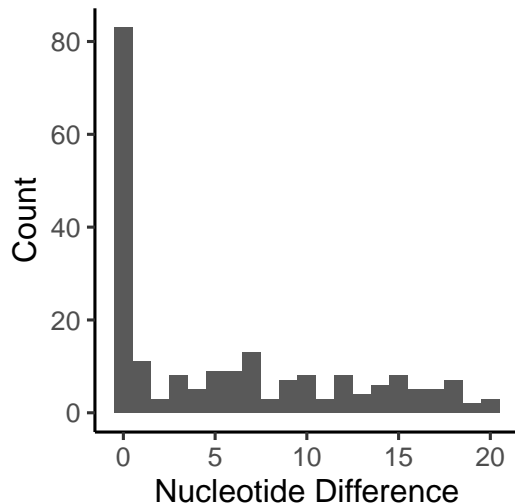
IGHV1-58*02

34 sequences assigned
19 (55.9%) exact matches, in which:
19 unique CDR3
5 unique J



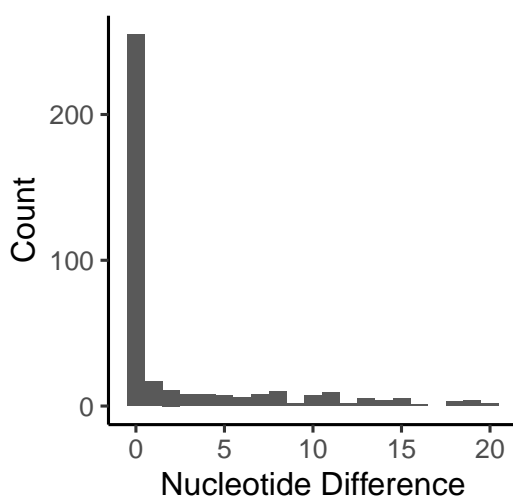
IGHV1-3*01_05

226 sequences assigned
83 (36.7%) exact matches, in which:
83 unique CDR3
6 unique J



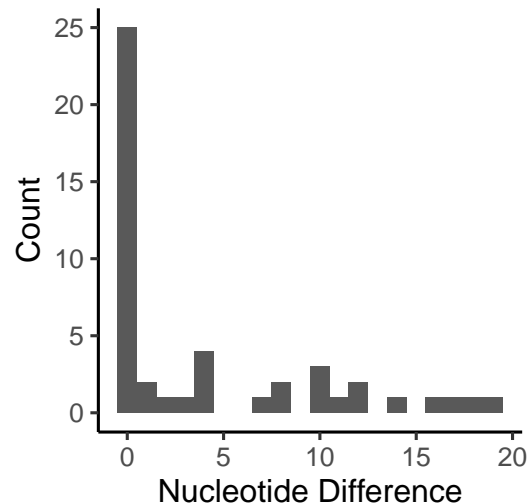
IGHV1-24*01

398 sequences assigned
255 (64.1%) exact matches, in which:
252 unique CDR3
6 unique J



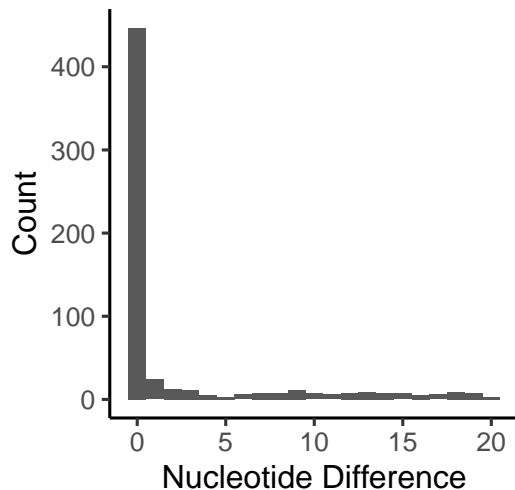
IGHV1-58*01_03

47 sequences assigned
25 (53.2%) exact matches, in which:
25 unique CDR3
4 unique J



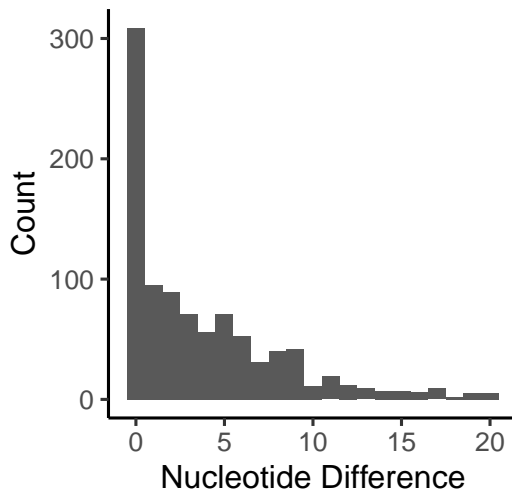
IGHV1–69*01_12_13

702 sequences assigned
447 (63.7%) exact matches, in which:
446 unique CDR3
6 unique J



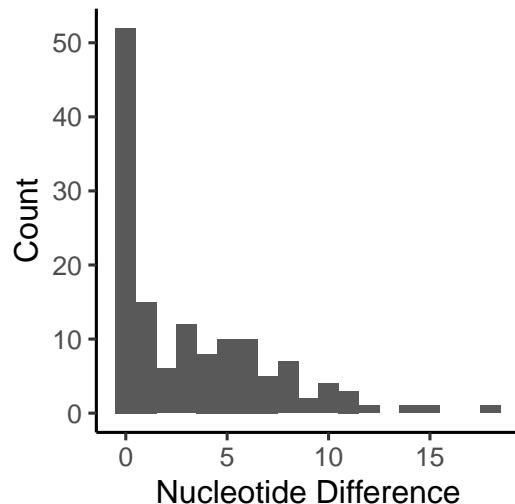
IGHV2–5*02

973 sequences assigned
309 (31.8%) exact matches, in which:
281 unique CDR3
6 unique J



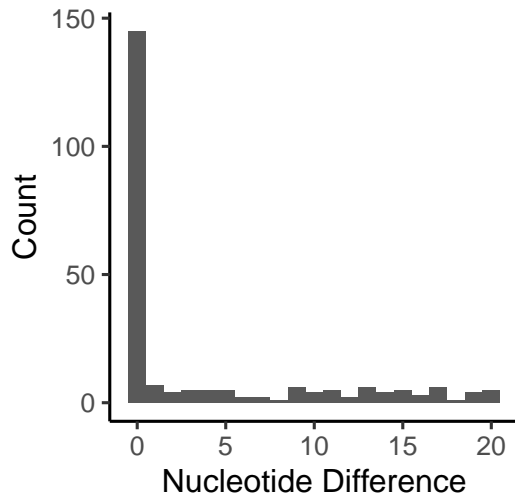
IGHV2–70*11_15

139 sequences assigned
52 (37.4%) exact matches, in which:
51 unique CDR3
5 unique J



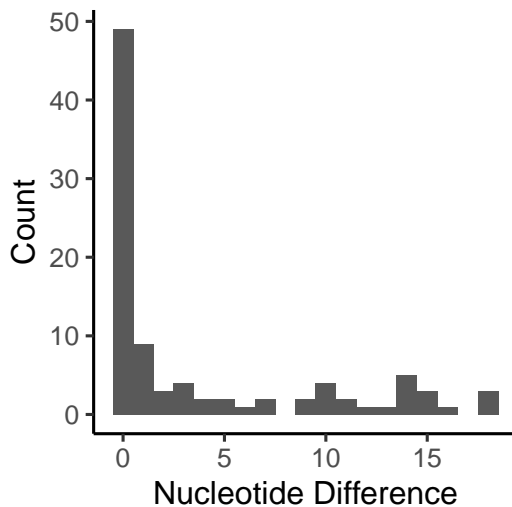
IGHV1–69*04_09

279 sequences assigned
145 (52%) exact matches, in which:
144 unique CDR3
6 unique J



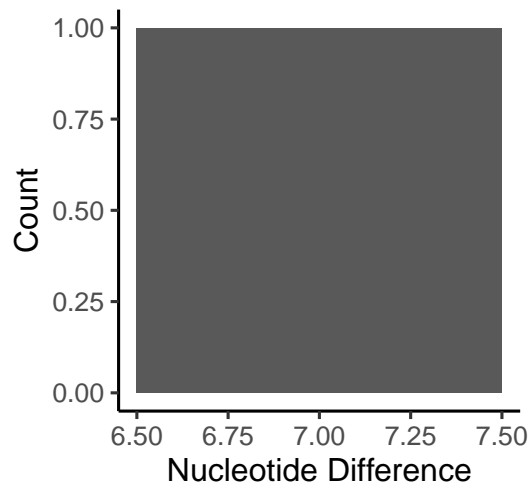
IGHV2–26*01

103 sequences assigned
49 (47.6%) exact matches, in which:
48 unique CDR3
6 unique J



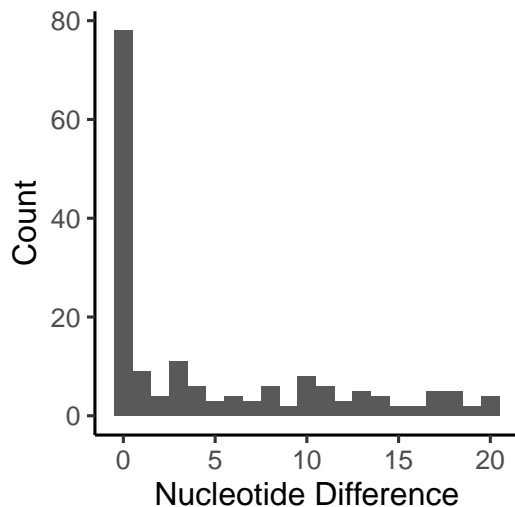
IGHV2–70D*04

1 sequences assigned
No exact matches.



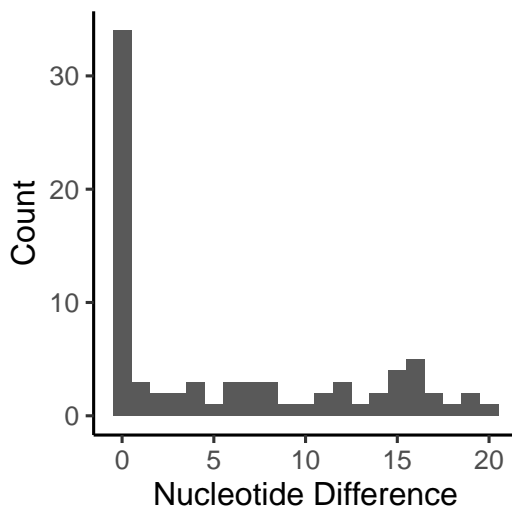
IGHV2–5*01

182 sequences assigned
78 (42.9%) exact matches, in which:
77 unique CDR3
6 unique J



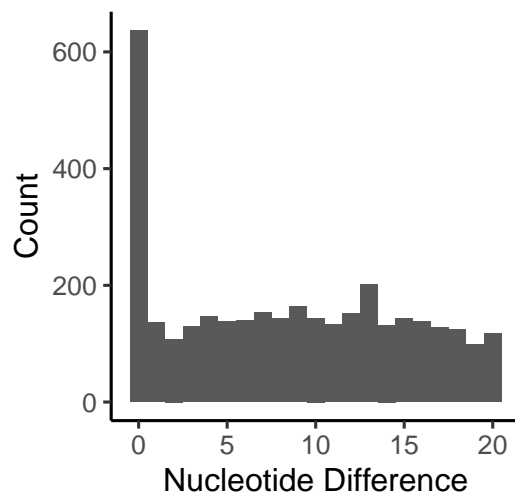
IGHV2–70*01

85 sequences assigned
34 (40%) exact matches, in which:
34 unique CDR3
5 unique J



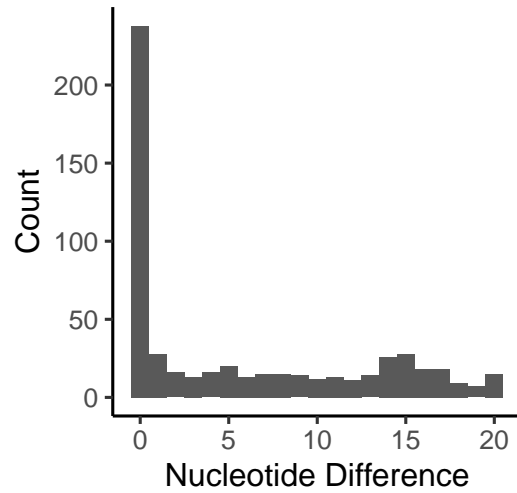
IGHV3–7*01

3798 sequences assigned
637 (16.8%) exact matches, in which:
512 unique CDR3
6 unique J



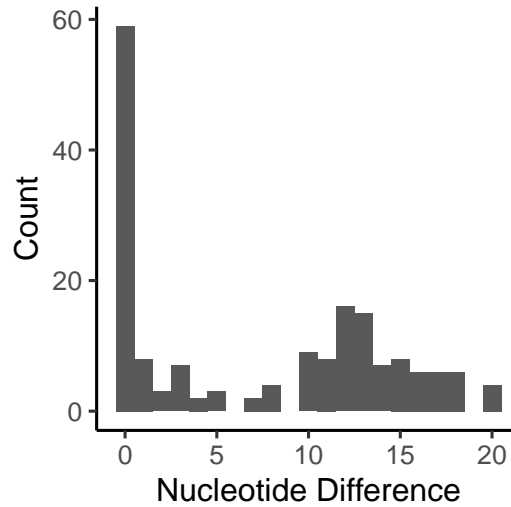
IGHV3-9*01

640 sequences assigned
238 (37.2%) exact matches, in which:
210 unique CDR3
6 unique J



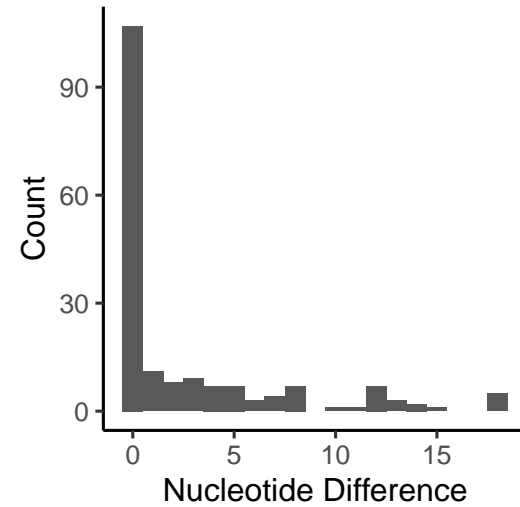
IGHV3-13*01

179 sequences assigned
59 (33%) exact matches, in which:
46 unique CDR3
5 unique J



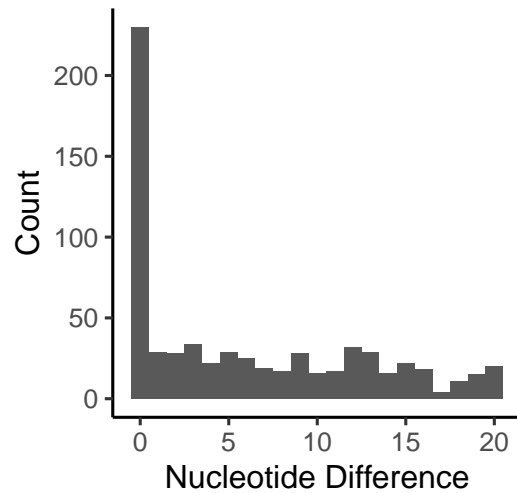
IGHV3-20*01_02

189 sequences assigned
107 (56.6%) exact matches, in which:
82 unique CDR3
6 unique J



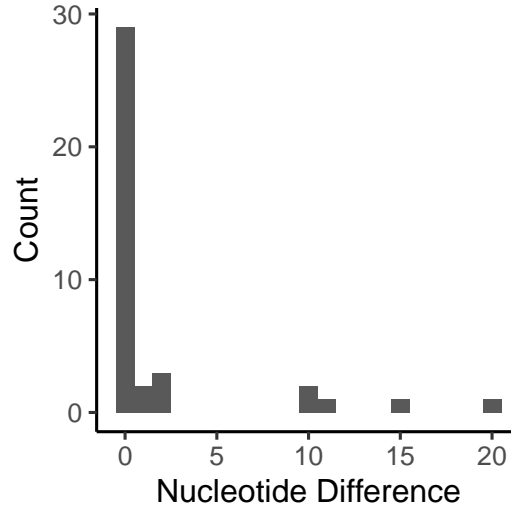
IGHV3-11*01

737 sequences assigned
230 (31.2%) exact matches, in which:
195 unique CDR3
6 unique J



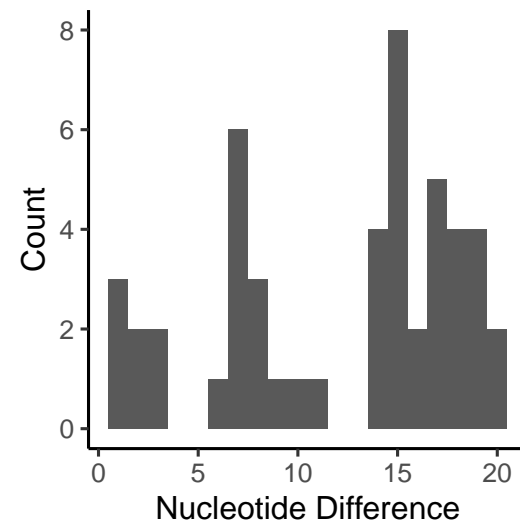
IGHV3-13*05

41 sequences assigned
29 (70.7%) exact matches, in which:
27 unique CDR3
5 unique J



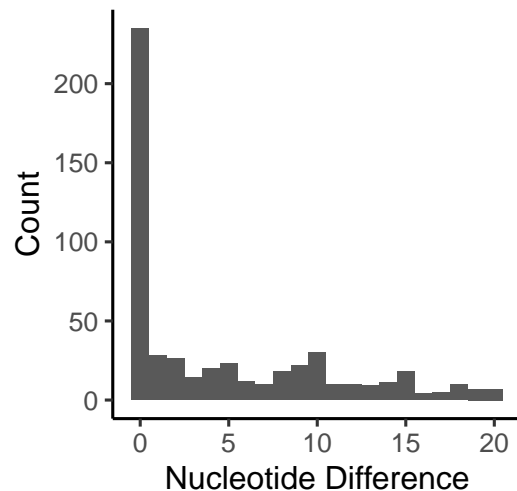
IGHV3-20*03_04

78 sequences assigned
No exact matches.



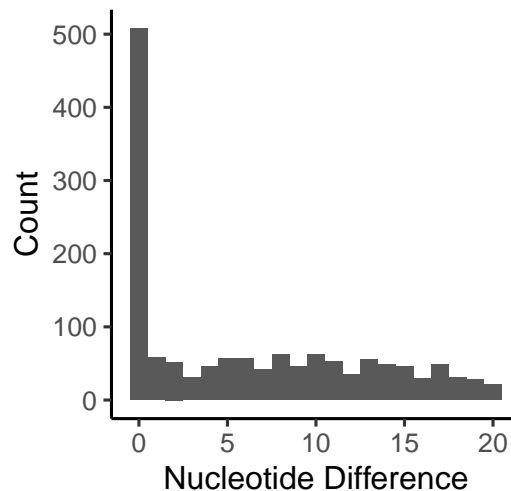
IGHV3-11*06

598 sequences assigned
235 (39.3%) exact matches, in which:
186 unique CDR3
6 unique J



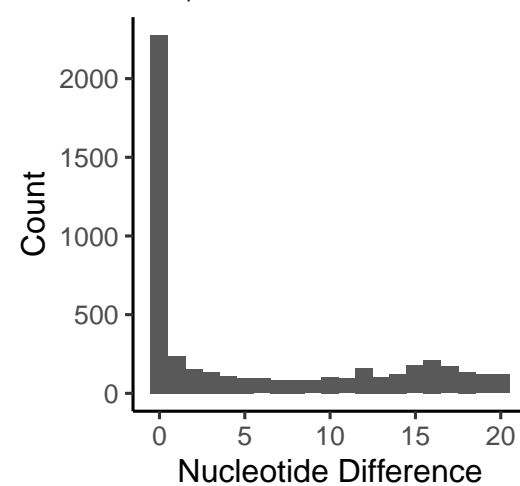
IGHV3-15*01_02

1639 sequences assigned
508 (31%) exact matches, in which:
410 unique CDR3
6 unique J



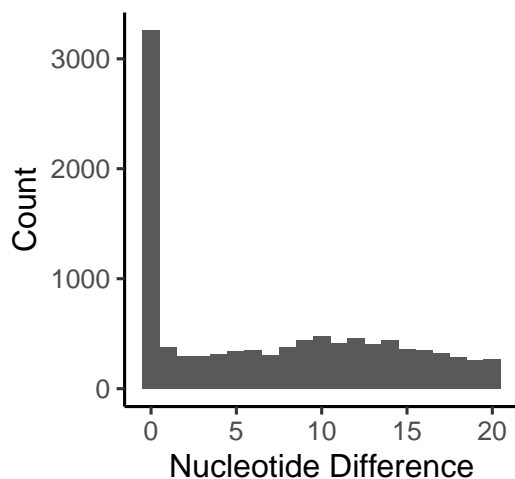
IGHV3-21*01_02

5616 sequences assigned
2277 (40.5%) exact matches, in which:
1663 unique CDR3
6 unique J



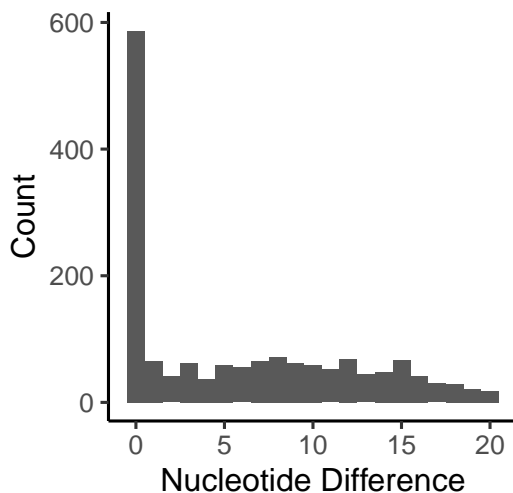
IGHV3-23*01_04

12831 sequences assigned
3258 (25.4%) exact matches, in which:
2715 unique CDR3
6 unique J



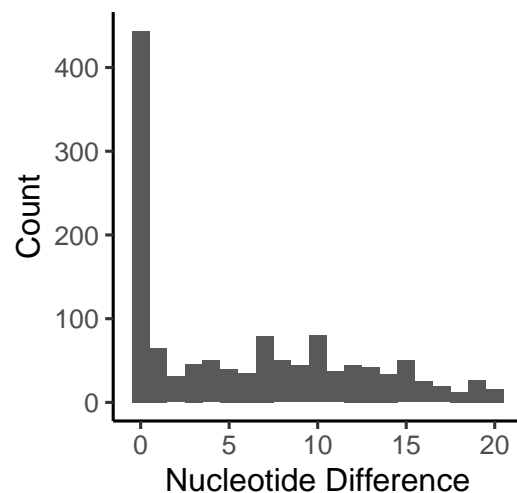
IGHV3-33*01

1721 sequences assigned
587 (34.1%) exact matches, in which:
455 unique CDR3
6 unique J



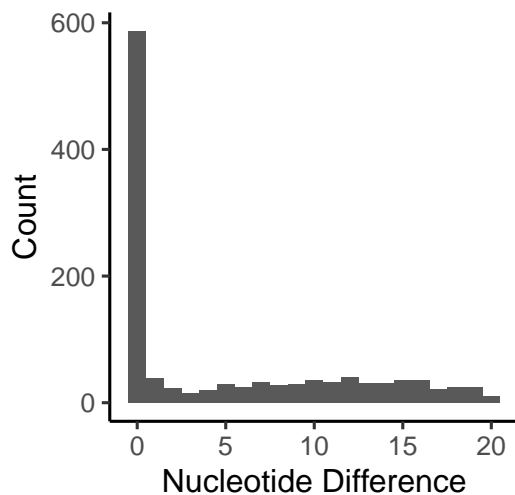
IGHV3-48*02

1358 sequences assigned
444 (32.7%) exact matches, in which:
335 unique CDR3
6 unique J



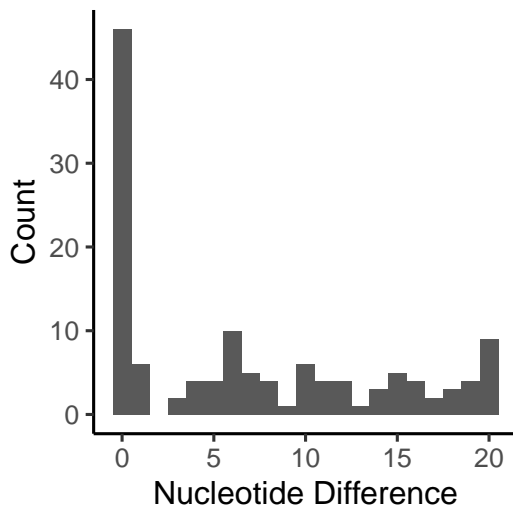
IGHV3-30-3*01

1327 sequences assigned
587 (44.2%) exact matches, in which:
518 unique CDR3
6 unique J



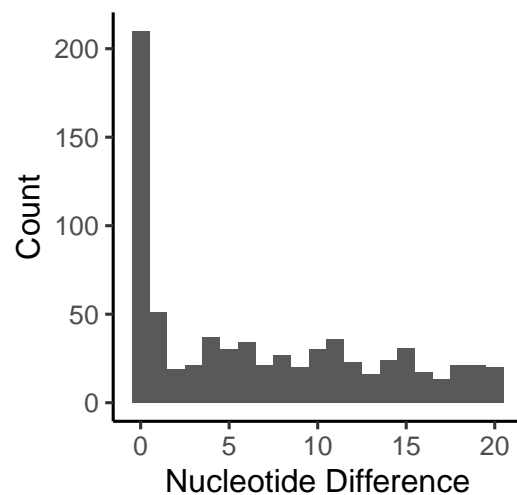
IGHV3-43*01

141 sequences assigned
46 (32.6%) exact matches, in which:
37 unique CDR3
5 unique J



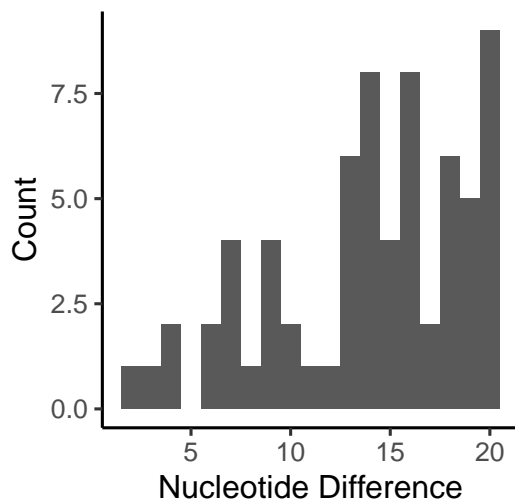
IGHV3-48*03

839 sequences assigned
210 (25%) exact matches, in which:
173 unique CDR3
5 unique J



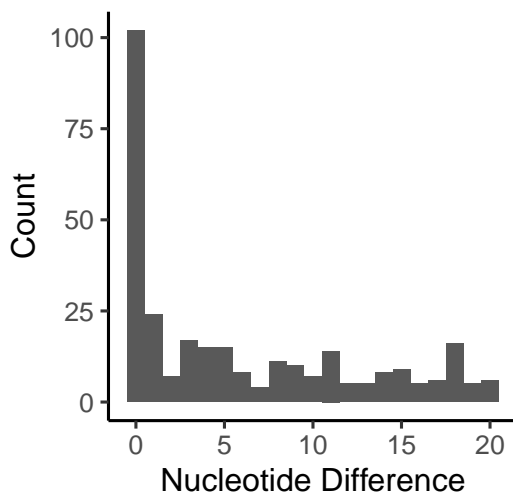
IGHV3-30*04

146 sequences assigned
No exact matches.



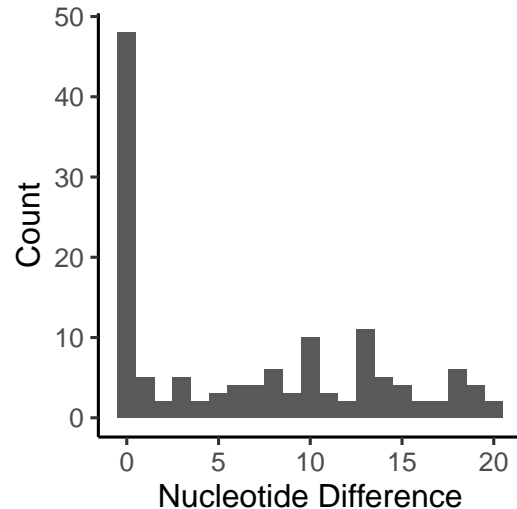
IGHV3-43*02

372 sequences assigned
102 (27.4%) exact matches, in which:
93 unique CDR3
4 unique J



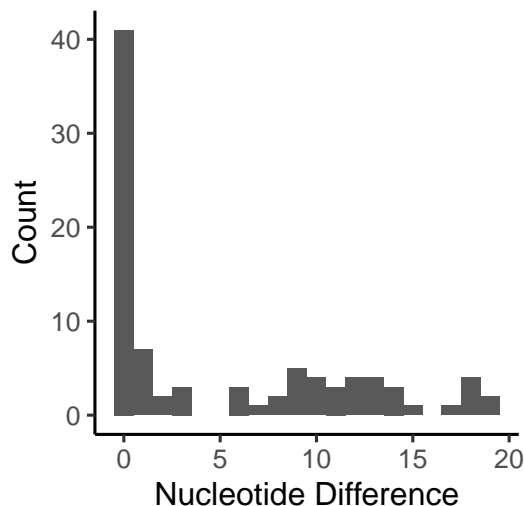
IGHV3-49*04

165 sequences assigned
48 (29.1%) exact matches, in which:
45 unique CDR3
4 unique J



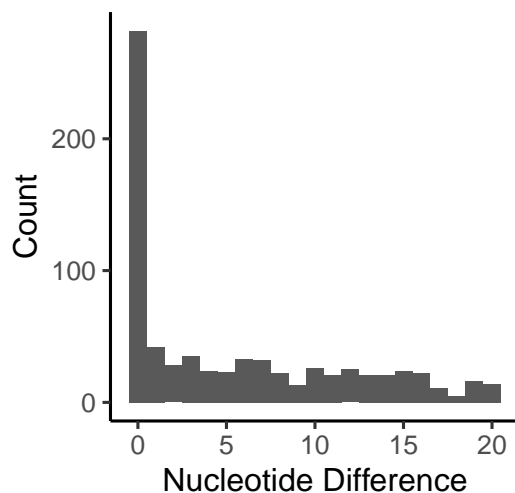
IGHV3-49*03_05

96 sequences assigned
41 (42.7%) exact matches, in which:
39 unique CDR3
5 unique J



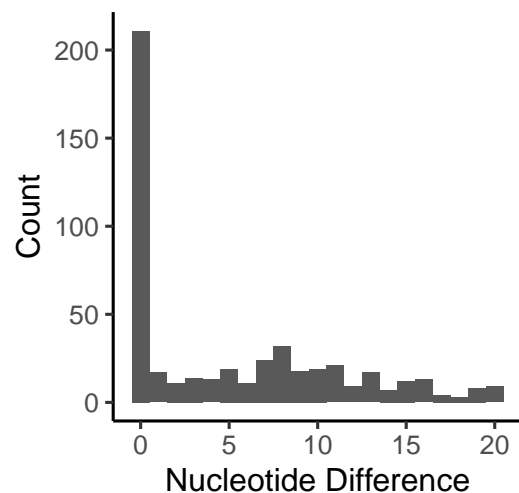
IGHV3-53*01_02

819 sequences assigned
282 (34.4%) exact matches, in which:
237 unique CDR3
6 unique J



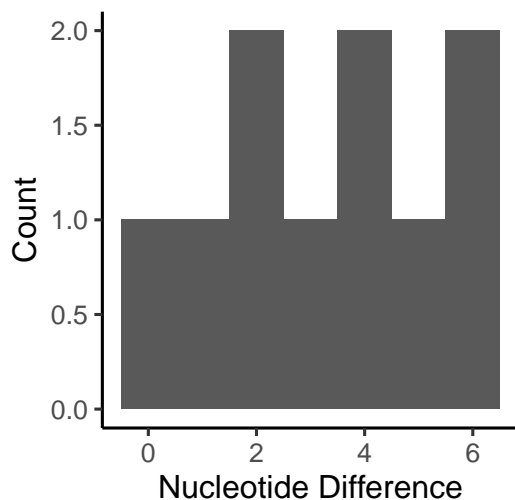
IGHV3-66*01

587 sequences assigned
211 (35.9%) exact matches, in which:
174 unique CDR3
5 unique J



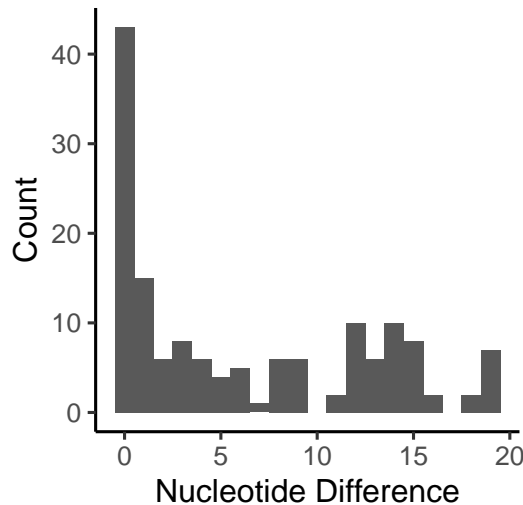
IGHV3-52*01_03

10 sequences assigned
1 (10%) exact matches, in which:
1 unique CDR3
1 unique J



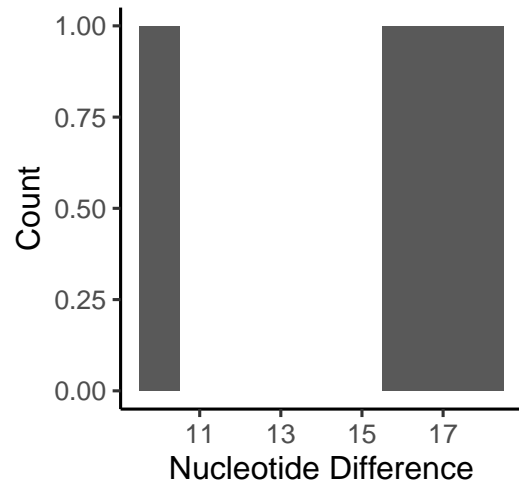
IGHV3-64*01

156 sequences assigned
43 (27.6%) exact matches, in which:
36 unique CDR3
5 unique J



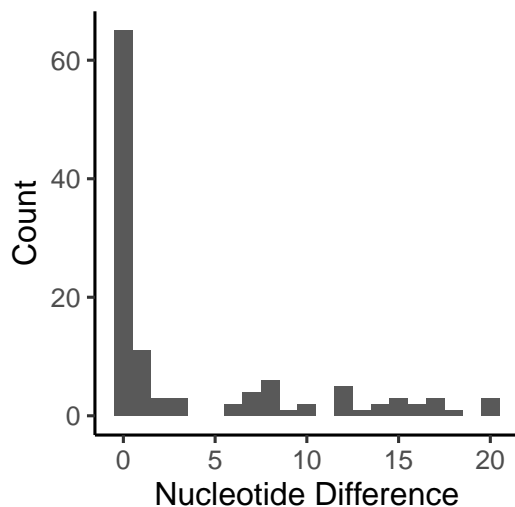
IGHV3-69-1*01

16 sequences assigned
No exact matches.



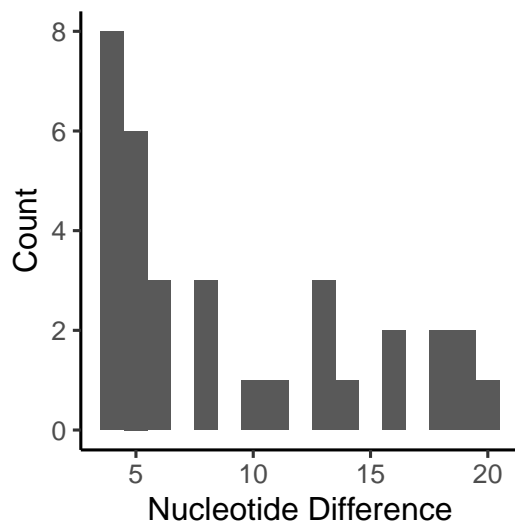
IGHV3-53*04

131 sequences assigned
65 (49.6%) exact matches, in which:
57 unique CDR3
5 unique J



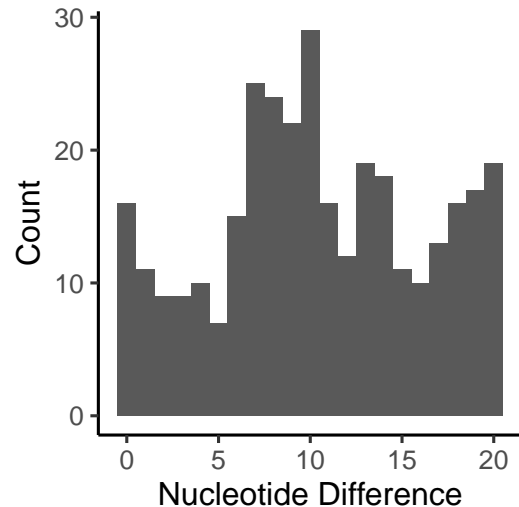
IGHV3-64*02_07

43 sequences assigned
No exact matches.



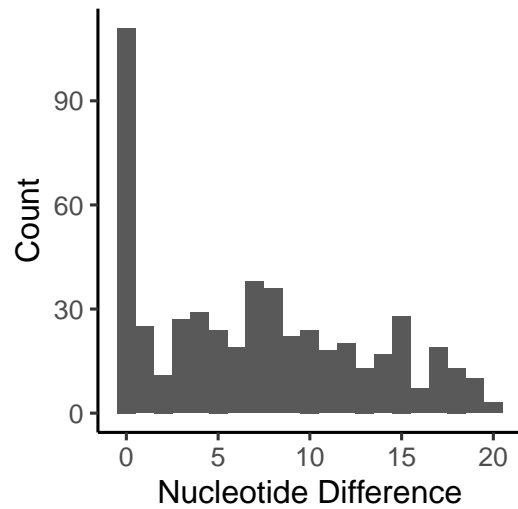
IGHV3-72*01

390 sequences assigned
16 (4.1%) exact matches, in which:
12 unique CDR3
4 unique J



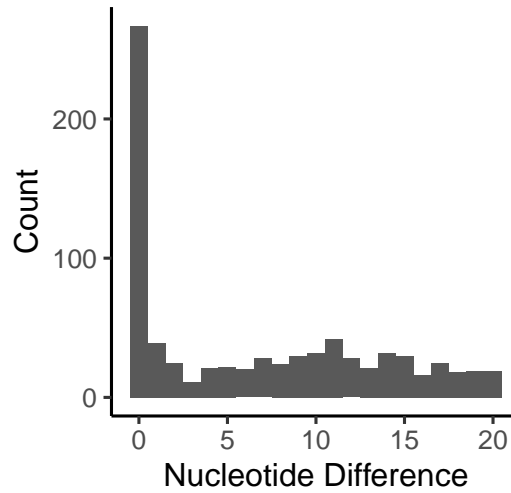
IGHV3-73*01_02

572 sequences assigned
111 (19.4%) exact matches, in which:
63 unique CDR3
4 unique J



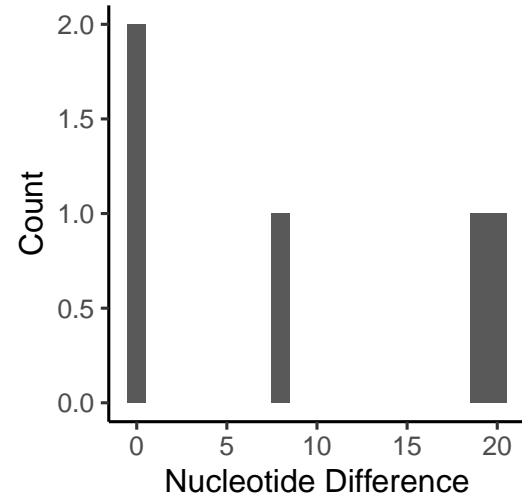
IGHV3-64D*06

878 sequences assigned
267 (30.4%) exact matches, in which:
239 unique CDR3
6 unique J



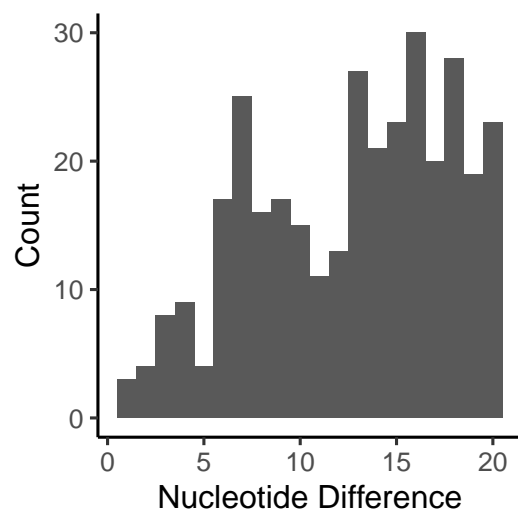
IGHV4-28*03

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



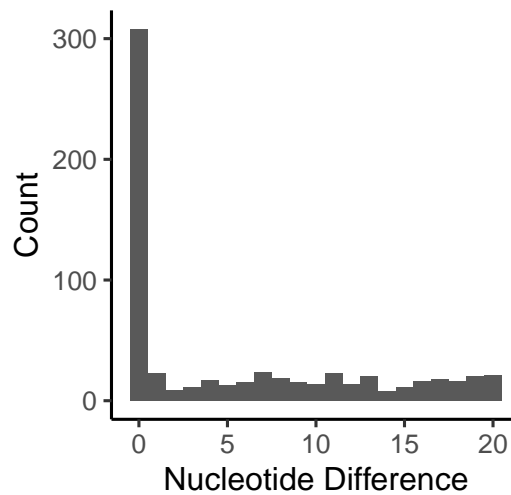
IGHV3-74*03

461 sequences assigned
No exact matches.



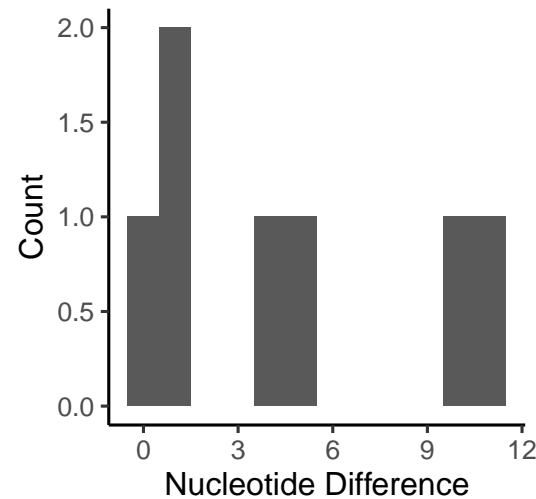
IGHV4-4*07

732 sequences assigned
308 (42.1%) exact matches, in which:
291 unique CDR3
6 unique J



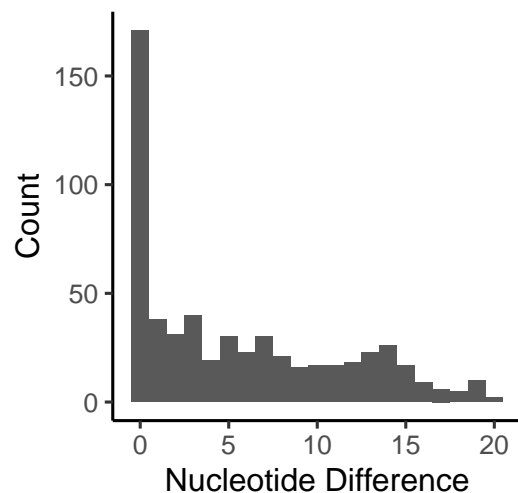
IGHV4-28*01_07

9 sequences assigned
1 (11.1%) exact matches, in which:
1 unique CDR3
1 unique J



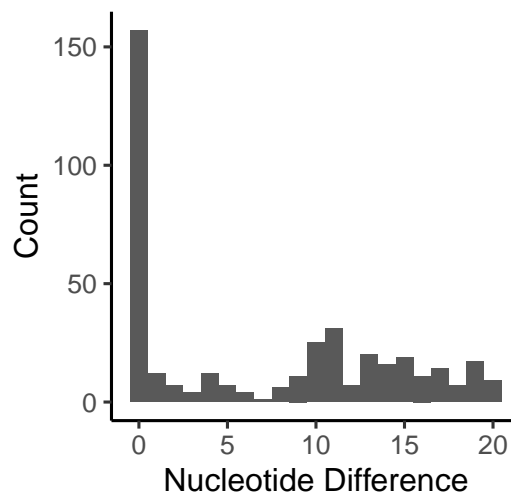
IGHV3-74*01_02

636 sequences assigned
171 (26.9%) exact matches, in which:
132 unique CDR3
6 unique J



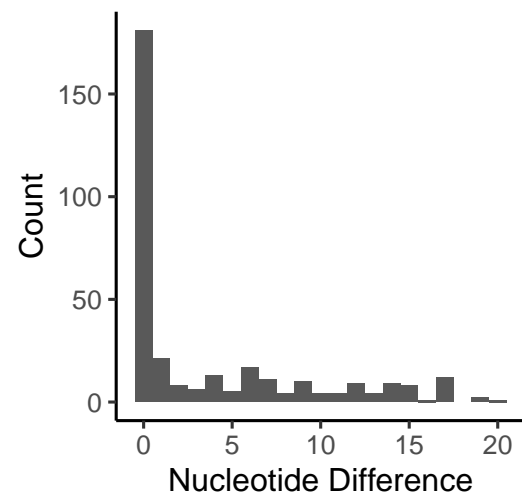
IGHV4-4*02_03

438 sequences assigned
157 (35.8%) exact matches, in which:
146 unique CDR3
6 unique J



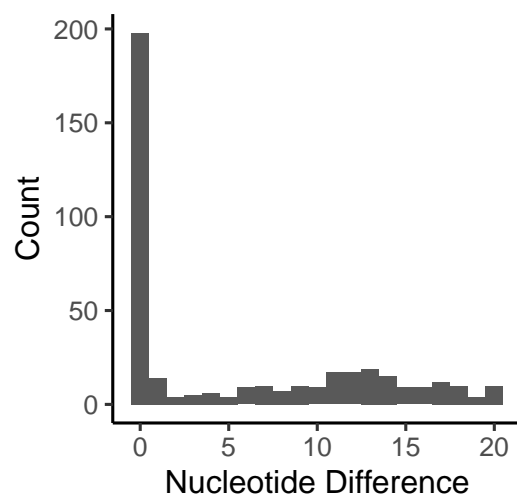
IGHV4-30-2*01

368 sequences assigned
181 (49.2%) exact matches, in which:
167 unique CDR3
6 unique J



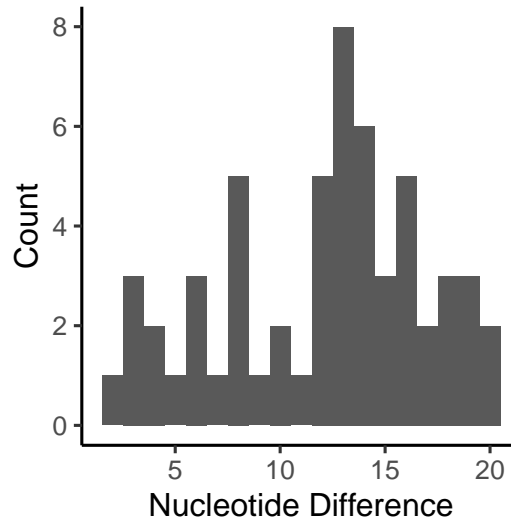
IGHV4-30-4*01

493 sequences assigned
198 (40.2%) exact matches, in which:
184 unique CDR3
6 unique J



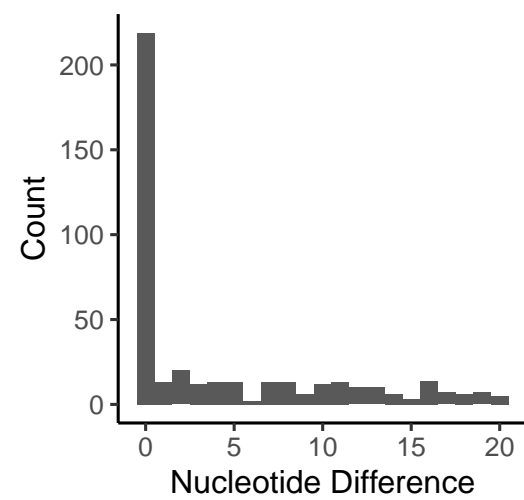
IGHV4-39*02

81 sequences assigned
No exact matches.



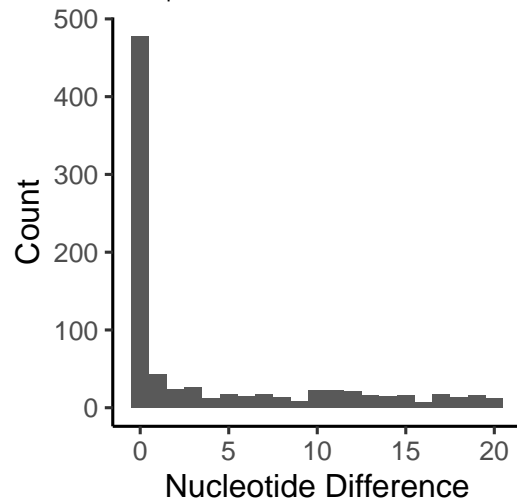
IGHV4-61*01

472 sequences assigned
219 (46.4%) exact matches, in which:
201 unique CDR3
6 unique J



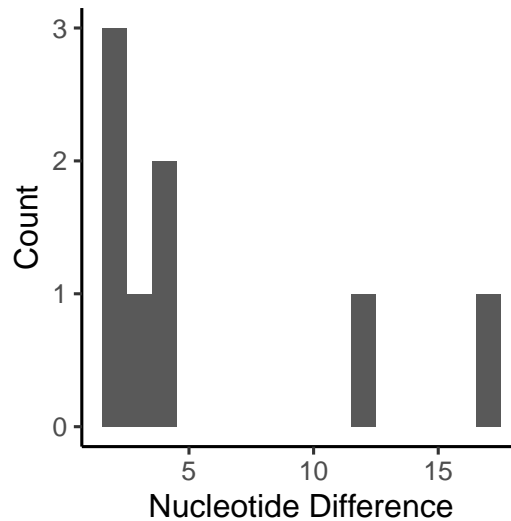
IGHV4-31*02

927 sequences assigned
478 (51.6%) exact matches, in which:
442 unique CDR3
6 unique J



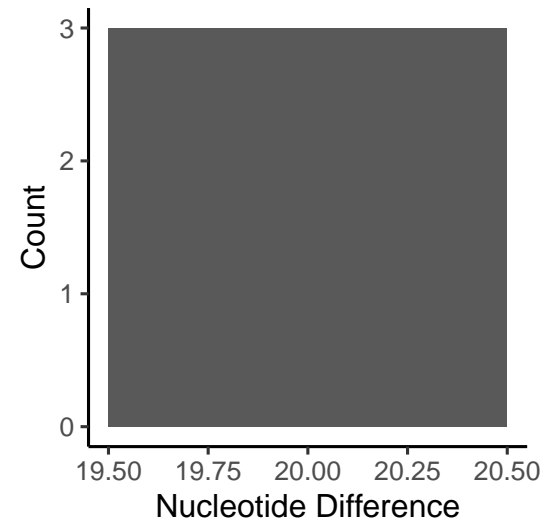
IGHV4-39*07

12 sequences assigned
No exact matches.



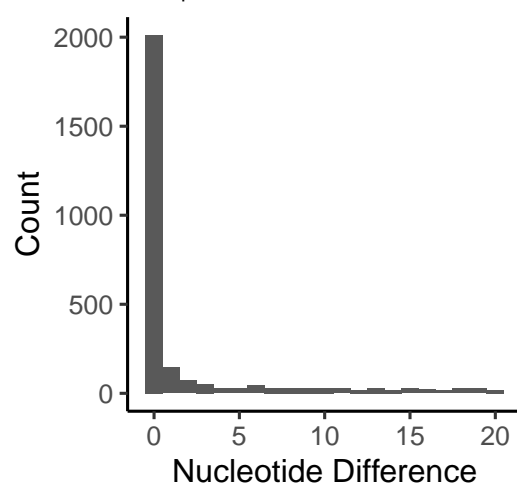
IGHV4/OR15-8*01

5 sequences assigned
No exact matches.



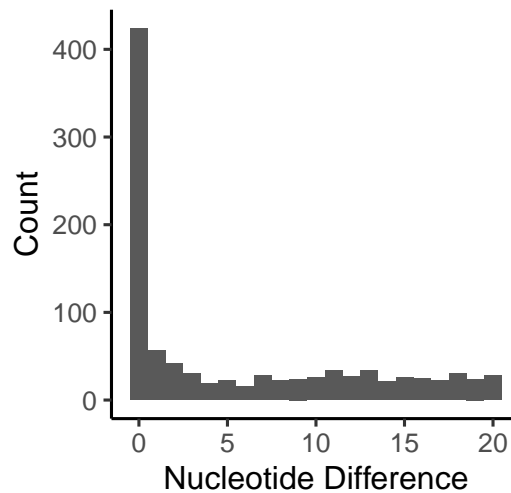
IGHV4-34*01_02

2907 sequences assigned
2012 (69.2%) exact matches, in which:
1909 unique CDR3
6 unique J



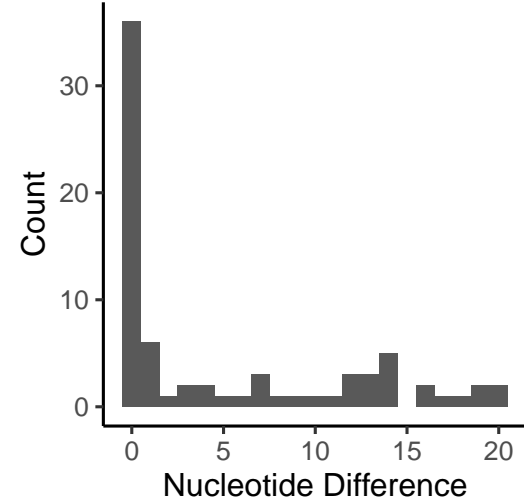
IGHV4-59*08

1376 sequences assigned
424 (30.8%) exact matches, in which:
398 unique CDR3
6 unique J



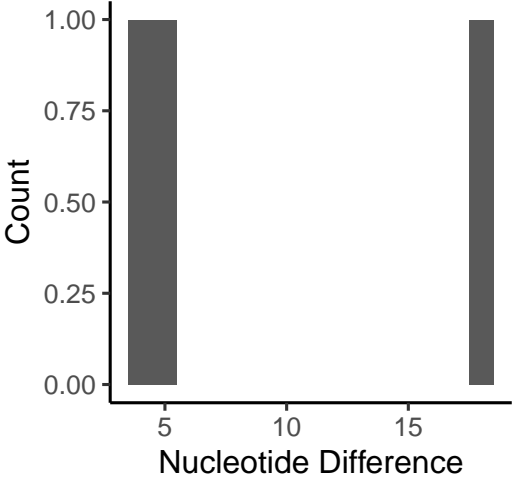
IGHV5-10-1*01_03

90 sequences assigned
36 (40%) exact matches, in which:
36 unique CDR3
4 unique J



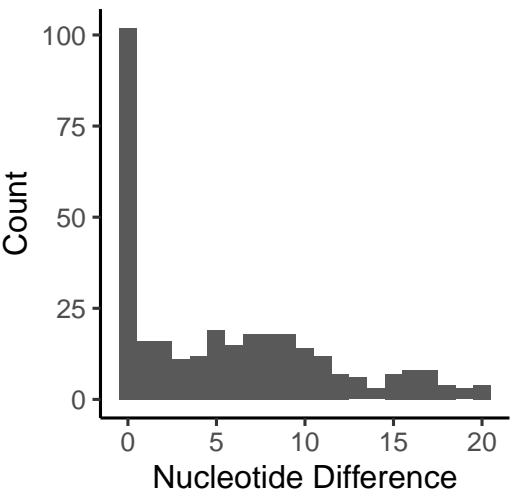
IGHV5-51*06

3 sequences assigned
No exact matches.



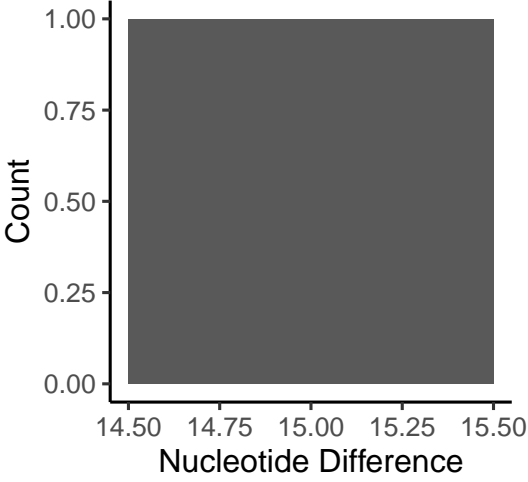
IGHV7-4-1*02

329 sequences assigned
102 (31%) exact matches, in which:
100 unique CDR3
5 unique J



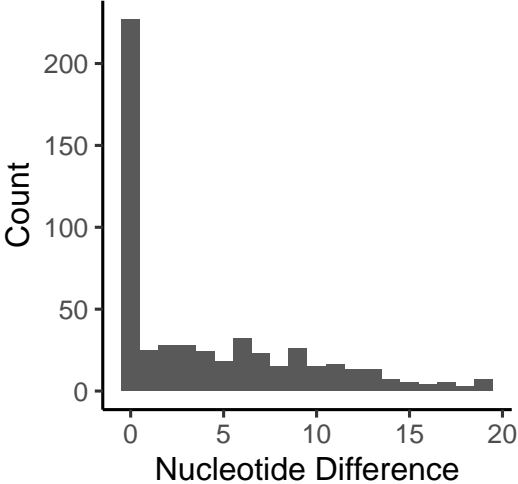
IGHV5-51*07

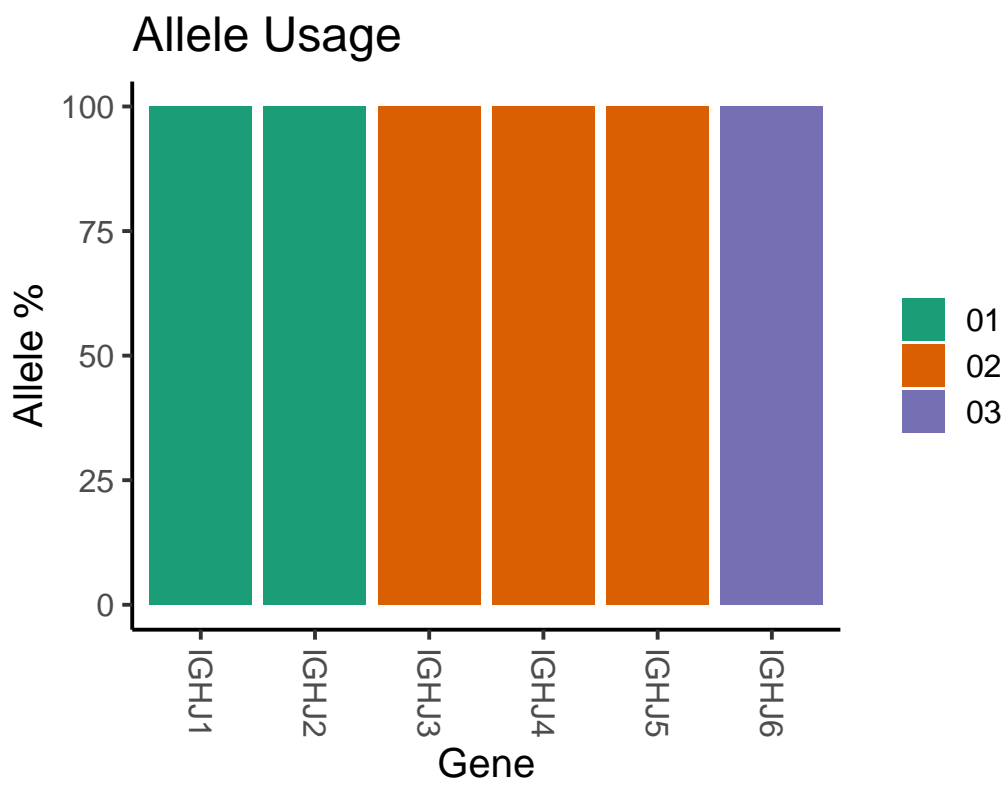
1 sequences assigned
No exact matches.



IGHV6-1*01_02

561 sequences assigned
227 (40.5%) exact matches, in which:
221 unique CDR3
6 unique J





Warning – no inferred sequences found.