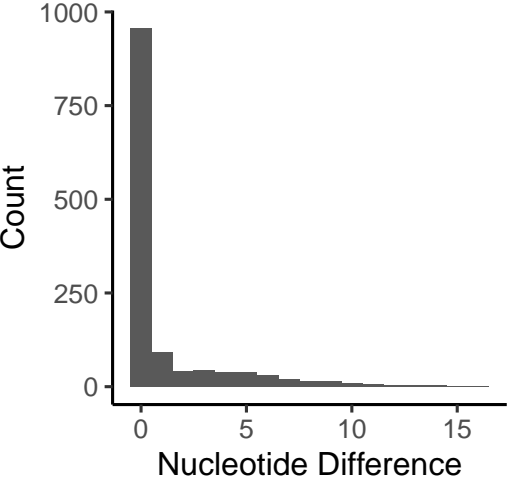


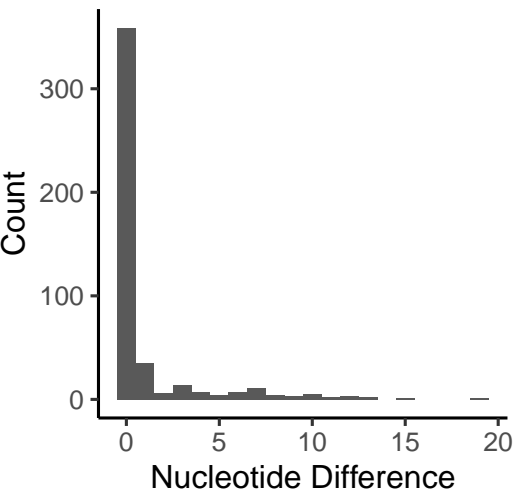
IGHV1-2*02

1329 sequences assigned
956 (71.9%) exact matches, in which:
908 unique CDR3
6 unique J



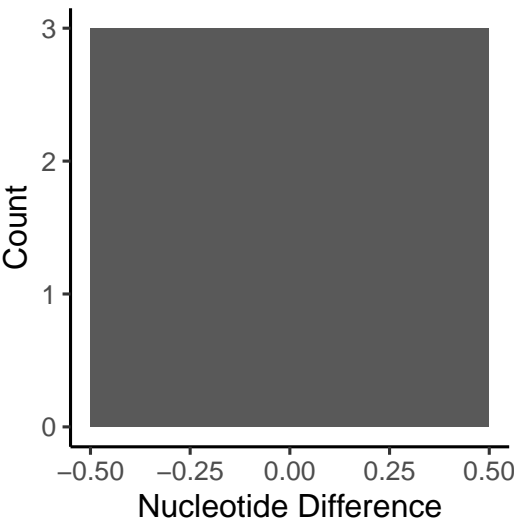
IGHV1-18*01

465 sequences assigned
359 (77.2%) exact matches, in which:
344 unique CDR3
6 unique J



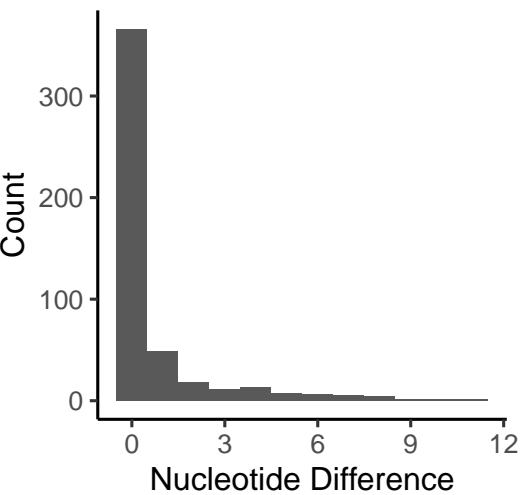
IGHV1-45*02

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



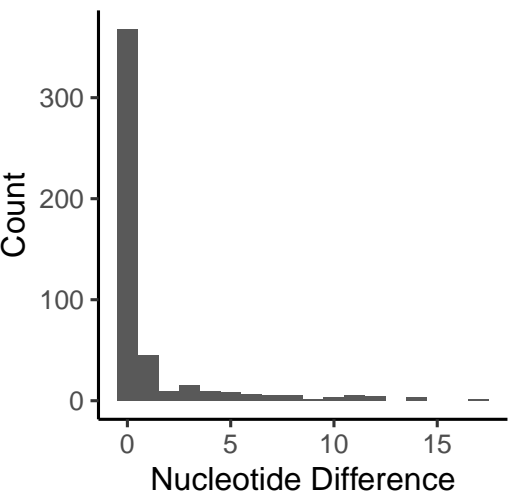
IGHV1-8*01

482 sequences assigned
366 (75.9%) exact matches, in which:
344 unique CDR3
6 unique J



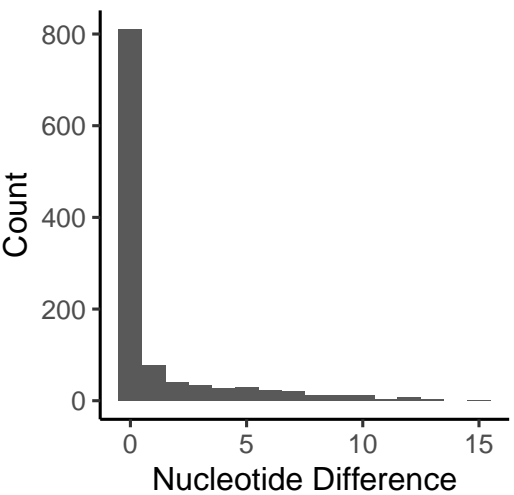
IGHV1-18*04

487 sequences assigned
368 (75.6%) exact matches, in which:
352 unique CDR3
6 unique J



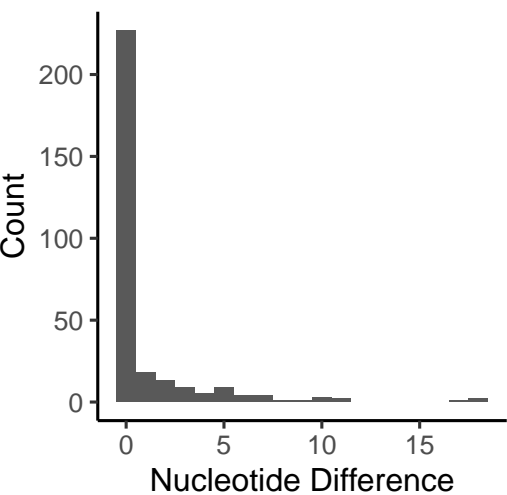
IGHV1-46*01

1113 sequences assigned
811 (72.9%) exact matches, in which:
763 unique CDR3
6 unique J



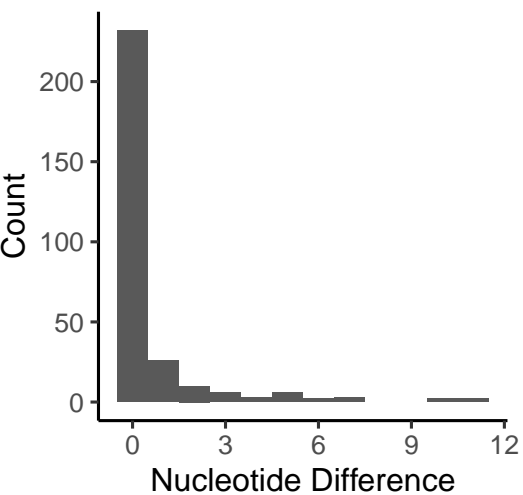
IGHV1-8*03

299 sequences assigned
227 (75.9%) exact matches, in which:
214 unique CDR3
6 unique J



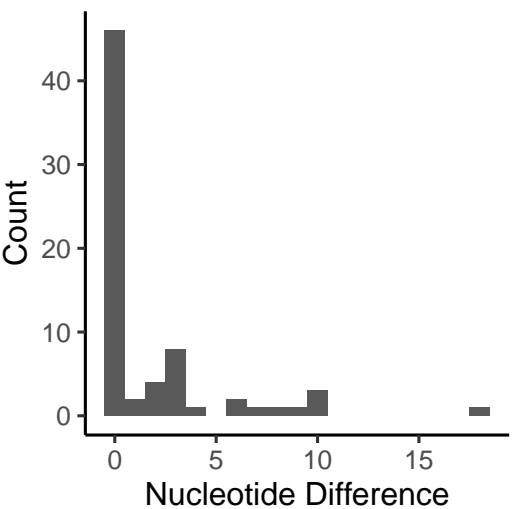
IGHV1-24*01

292 sequences assigned
232 (79.5%) exact matches, in which:
214 unique CDR3
6 unique J



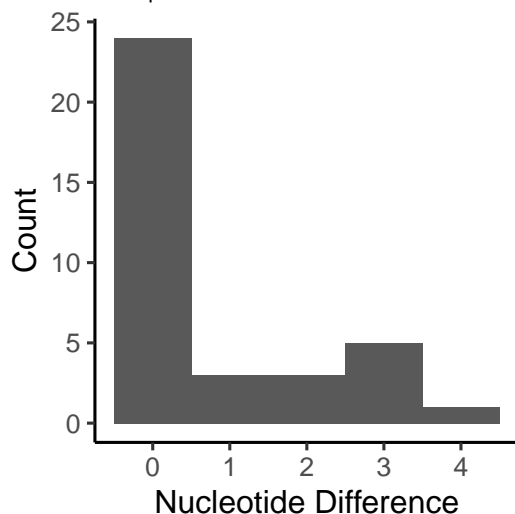
IGHV1-58*01

71 sequences assigned
46 (64.8%) exact matches, in which:
44 unique CDR3
5 unique J



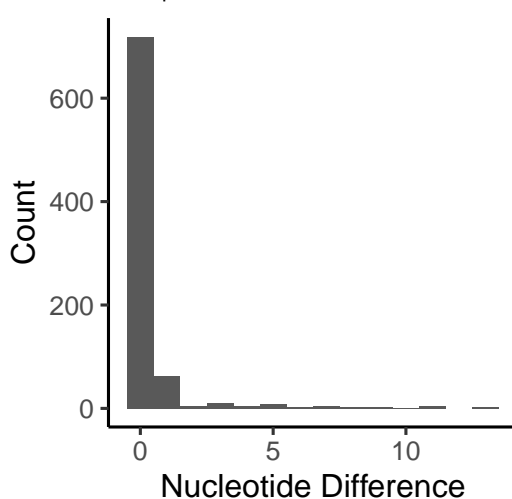
IGHV1-58*02

36 sequences assigned
24 (66.7%) exact matches, in which:
24 unique CDR3
5 unique J



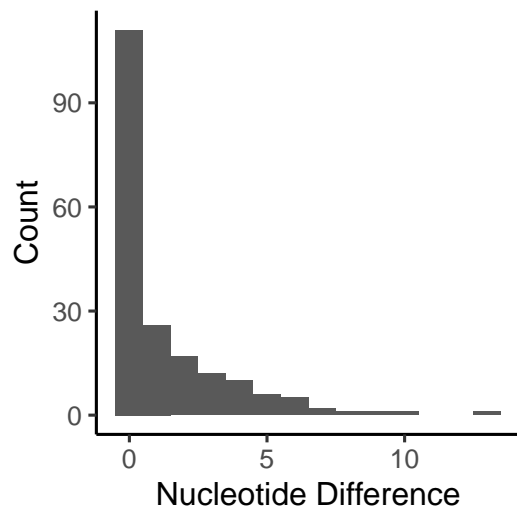
IGHV1-69*09

828 sequences assigned
719 (86.8%) exact matches, in which:
675 unique CDR3
6 unique J



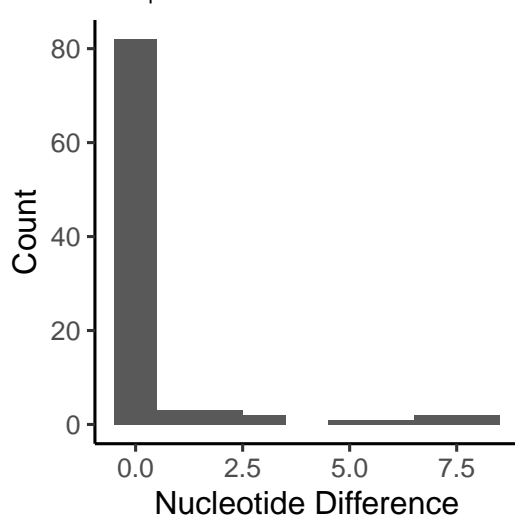
IGHV2-70*01

194 sequences assigned
111 (57.2%) exact matches, in which:
107 unique CDR3
5 unique J



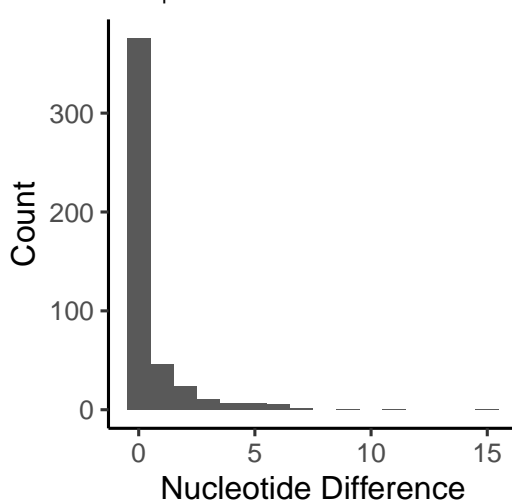
IGHV1-69-2*01

96 sequences assigned
82 (85.4%) exact matches, in which:
79 unique CDR3
6 unique J



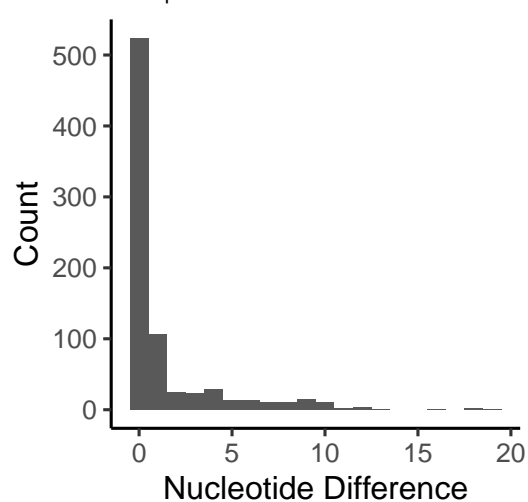
IGHV2-5*01

482 sequences assigned
376 (78%) exact matches, in which:
366 unique CDR3
6 unique J



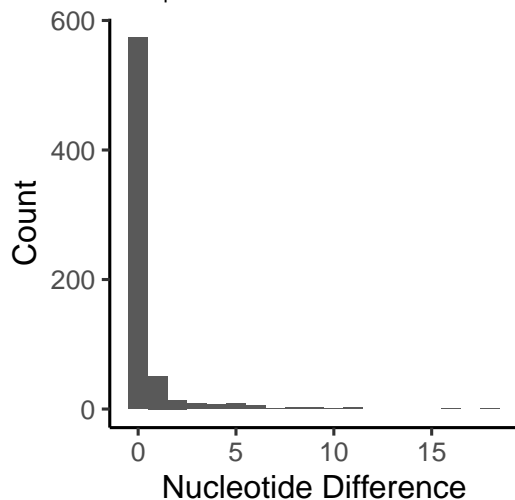
IGHV3-7*01

791 sequences assigned
524 (66.2%) exact matches, in which:
490 unique CDR3
6 unique J



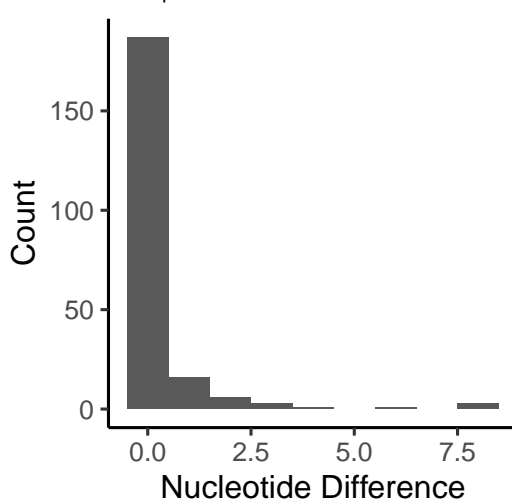
IGHV1-69*06

680 sequences assigned
574 (84.4%) exact matches, in which:
531 unique CDR3
6 unique J



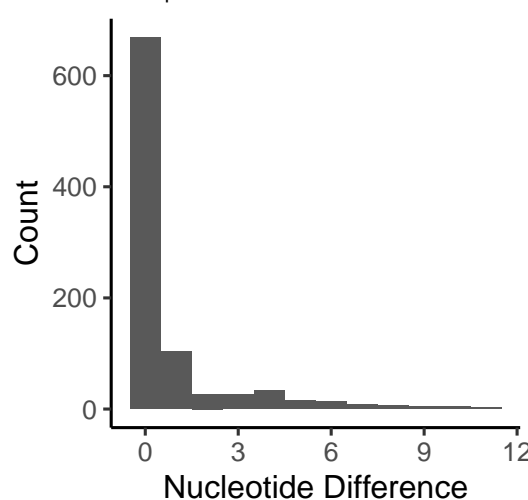
IGHV2-26*01

217 sequences assigned
187 (86.2%) exact matches, in which:
182 unique CDR3
6 unique J



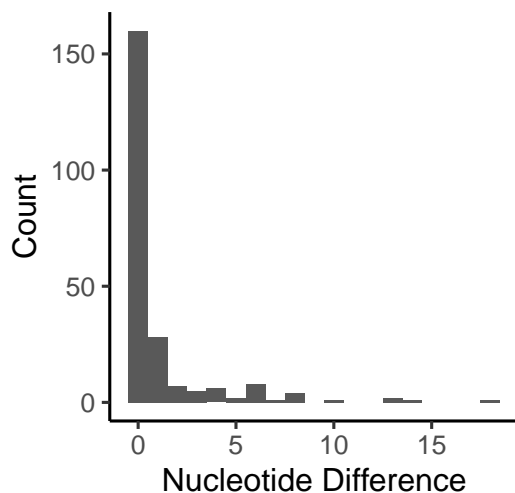
IGHV3-9*01

916 sequences assigned
669 (73%) exact matches, in which:
608 unique CDR3
6 unique J



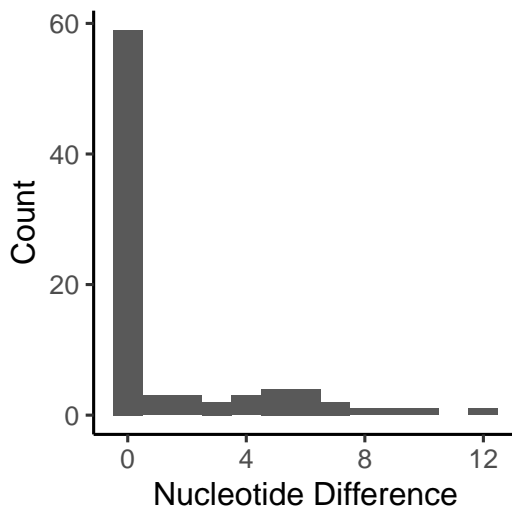
IGHV3-9*03

226 sequences assigned
160 (70.8%) exact matches, in which:
144 unique CDR3
6 unique J



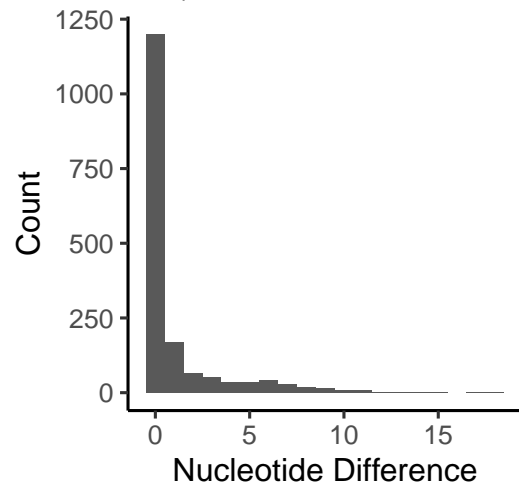
IGHV3-13*01

84 sequences assigned
59 (70.2%) exact matches, in which:
54 unique CDR3
5 unique J



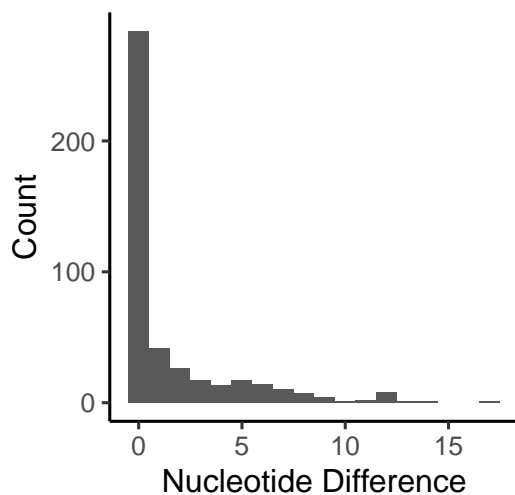
IGHV3-21*01

1683 sequences assigned
1199 (71.2%) exact matches, in which:
1087 unique CDR3
6 unique J



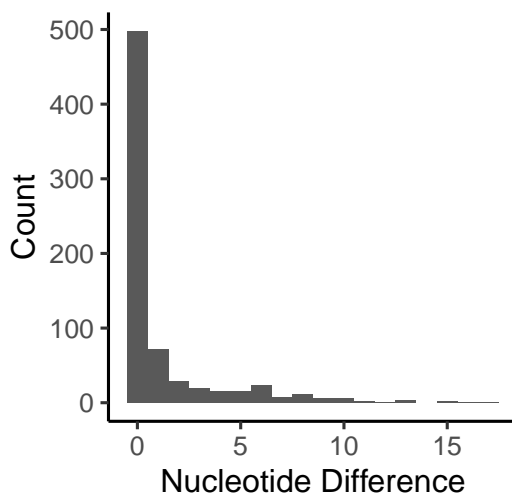
IGHV3-11*01

449 sequences assigned
284 (63.3%) exact matches, in which:
264 unique CDR3
6 unique J



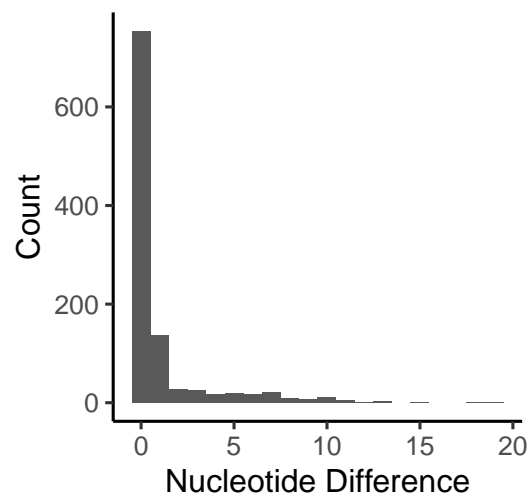
IGHV3-15*01

713 sequences assigned
498 (69.8%) exact matches, in which:
455 unique CDR3
6 unique J



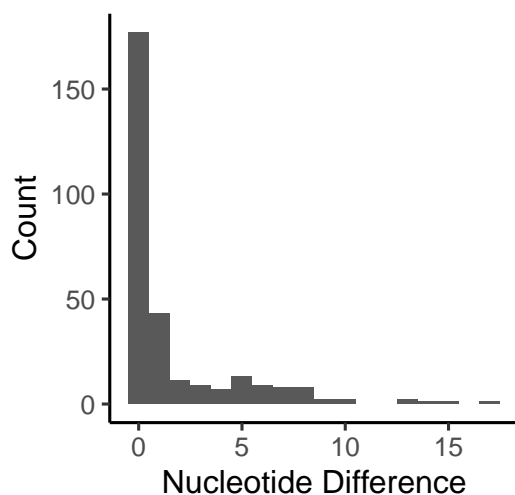
IGHV3-30-3*01

1066 sequences assigned
754 (70.7%) exact matches, in which:
696 unique CDR3
6 unique J



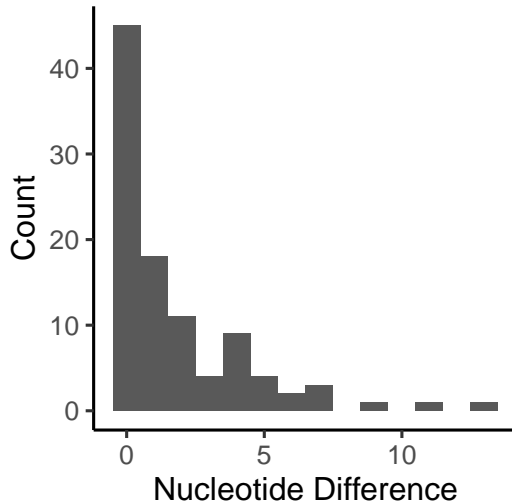
IGHV3-11*04

294 sequences assigned
177 (60.2%) exact matches, in which:
164 unique CDR3
5 unique J



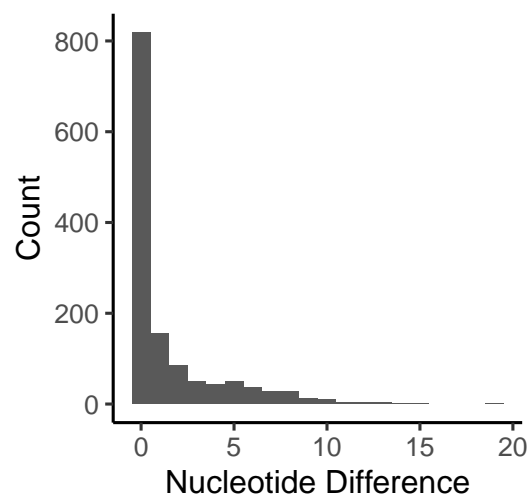
IGHV3-20*01

99 sequences assigned
45 (45.5%) exact matches, in which:
41 unique CDR3
5 unique J



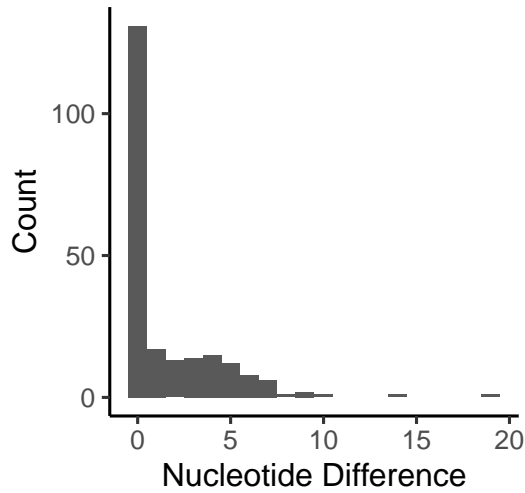
IGHV3-33*01

1340 sequences assigned
819 (61.1%) exact matches, in which:
753 unique CDR3
6 unique J



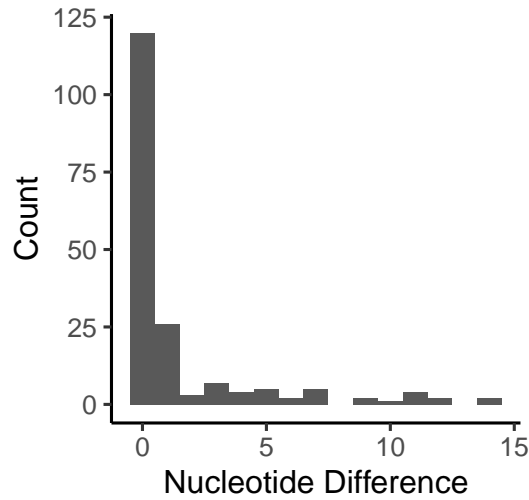
IGHV3-43*01

223 sequences assigned
131 (58.7%) exact matches, in which:
118 unique CDR3
6 unique J



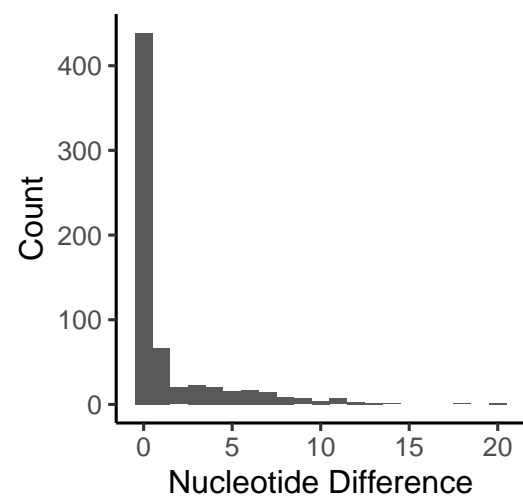
IGHV3-49*03

183 sequences assigned
120 (65.6%) exact matches, in which:
113 unique CDR3
6 unique J



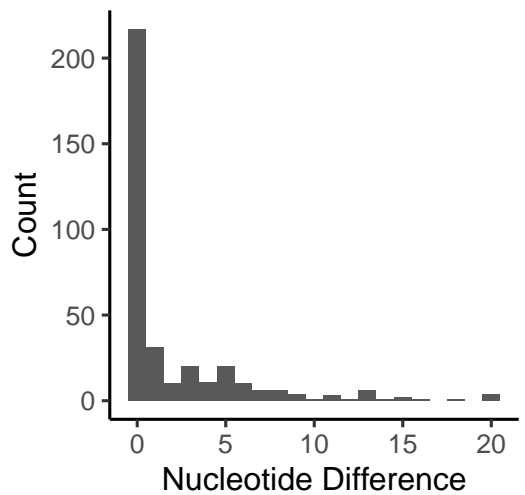
IGHV3-53*01

655 sequences assigned
439 (67%) exact matches, in which:
414 unique CDR3
6 unique J



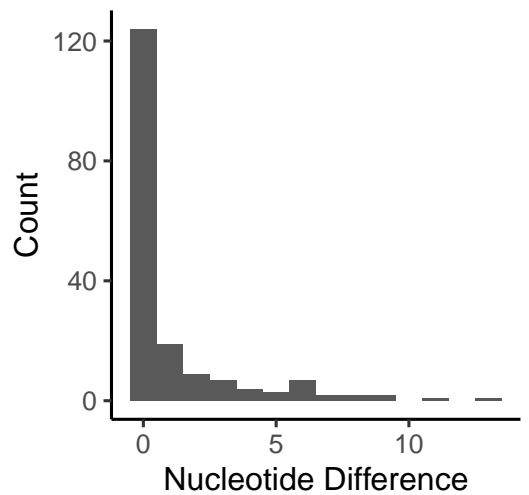
IGHV3-48*01

369 sequences assigned
217 (58.8%) exact matches, in which:
203 unique CDR3
6 unique J



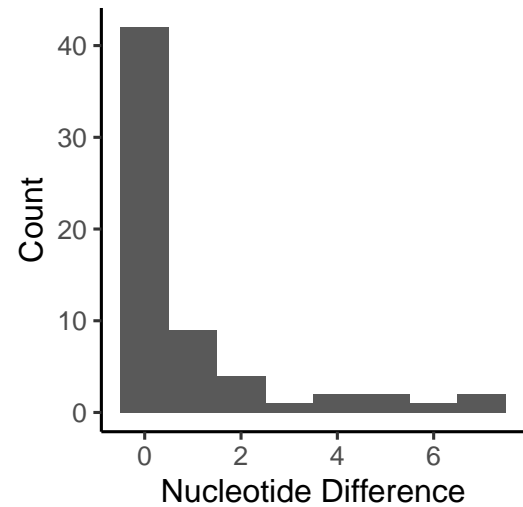
IGHV3-49*05

181 sequences assigned
124 (68.5%) exact matches, in which:
116 unique CDR3
6 unique J



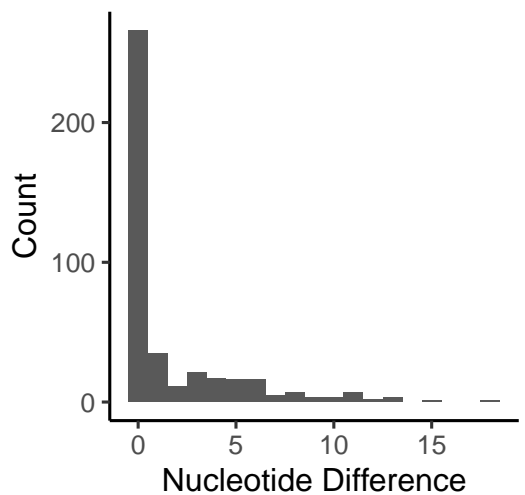
IGHV3-64*01

63 sequences assigned
42 (66.7%) exact matches, in which:
37 unique CDR3
5 unique J



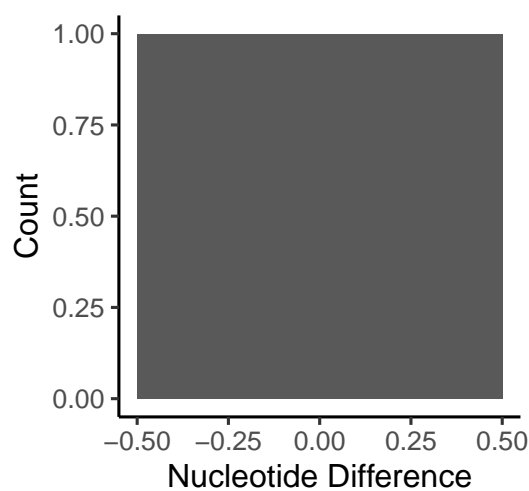
IGHV3-48*02

414 sequences assigned
266 (64.3%) exact matches, in which:
252 unique CDR3
5 unique J



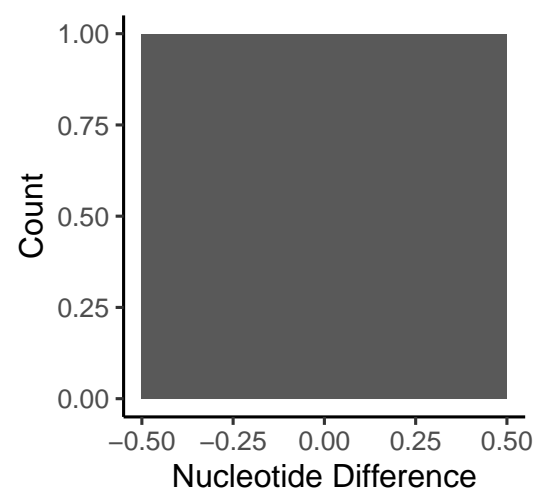
IGHV3-52*01

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



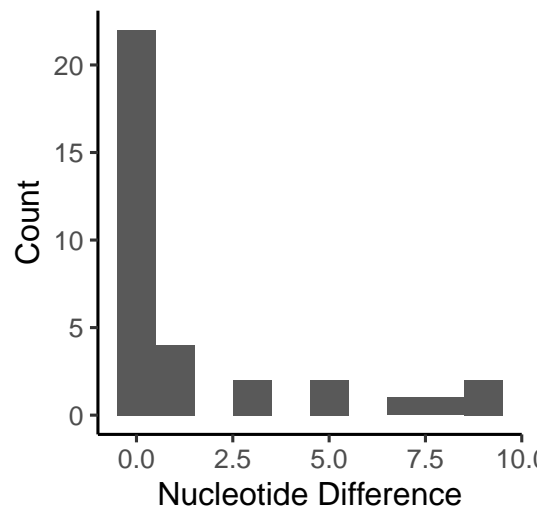
IGHV3-66*04

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



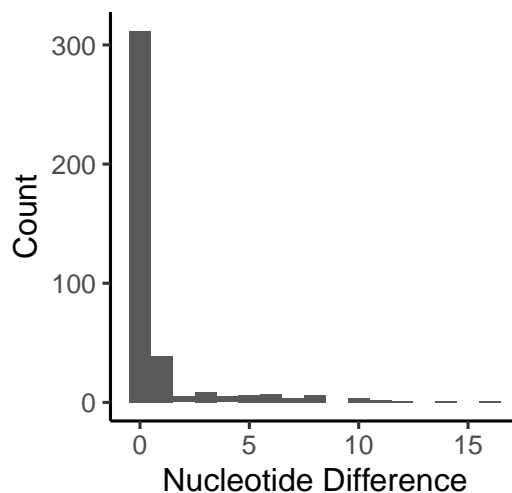
IGHV3-72*01

36 sequences assigned
22 (61.1%) exact matches, in which:
21 unique CDR3
5 unique J



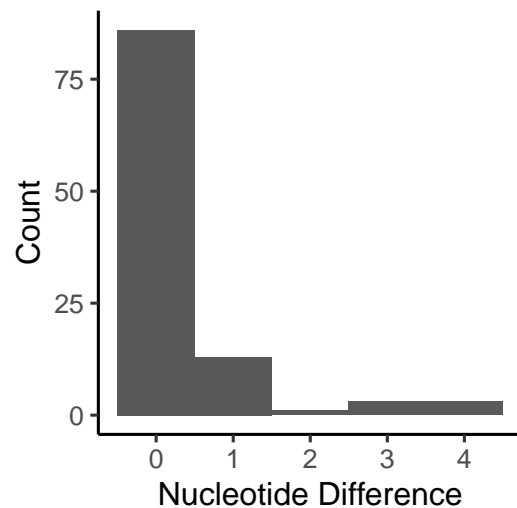
IGHV4-4*07

403 sequences assigned
312 (77.4%) exact matches, in which:
296 unique CDR3
6 unique J



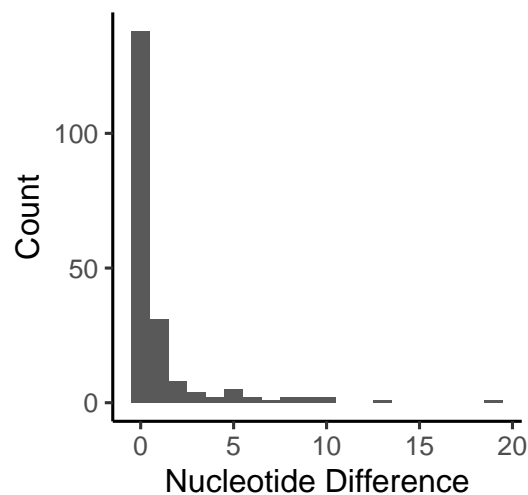
IGHV4-30-2*01

106 sequences assigned
86 (81.1%) exact matches, in which:
81 unique CDR3
5 unique J



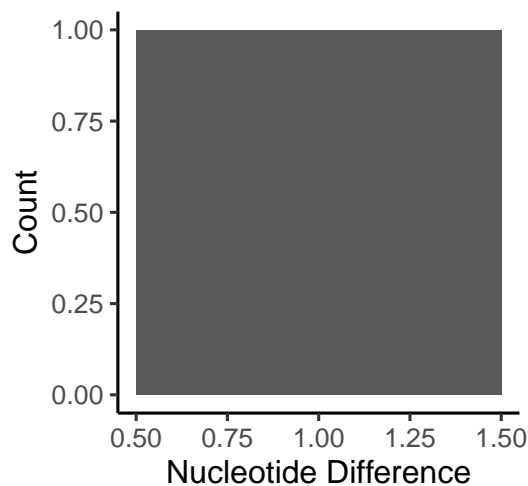
IGHV3-73*02

199 sequences assigned
138 (69.3%) exact matches, in which:
125 unique CDR3
6 unique J



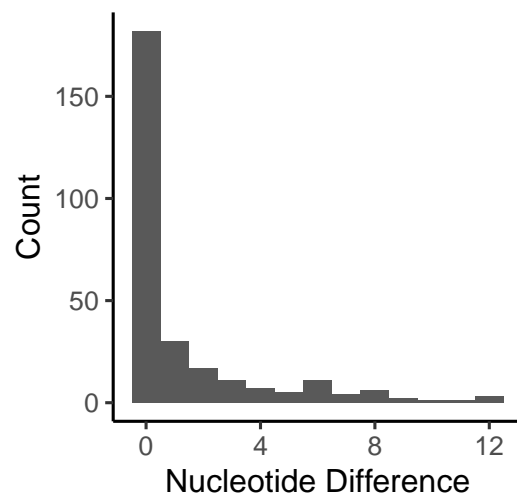
IGHV4-28*01

1 sequences assigned
No exact matches.



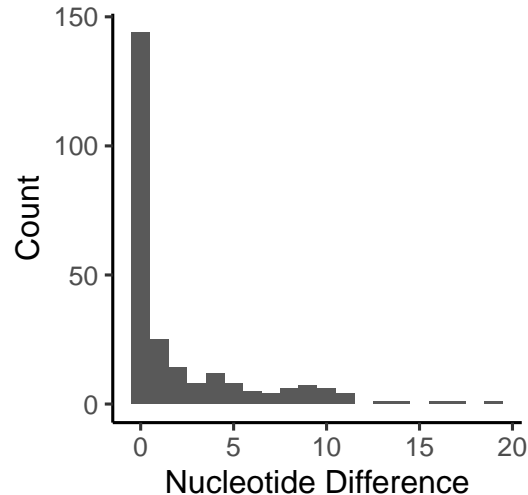
IGHV4-30-4*01

281 sequences assigned
182 (64.8%) exact matches, in which:
171 unique CDR3
6 unique J



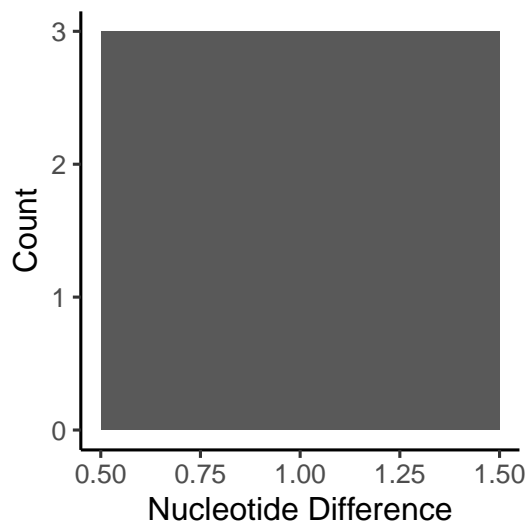
IGHV3-74*01

250 sequences assigned
144 (57.6%) exact matches, in which:
137 unique CDR3
6 unique J



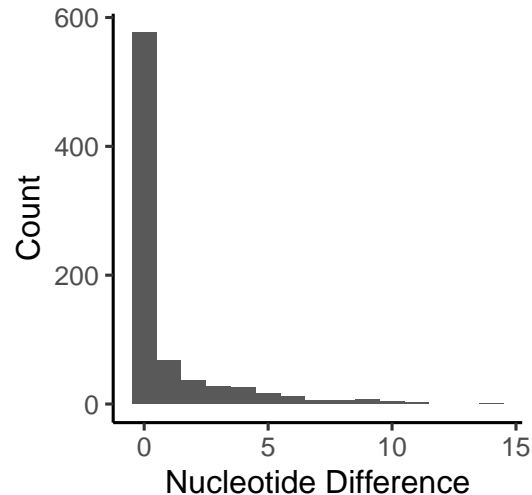
IGHV4-28*04

3 sequences assigned
No exact matches.



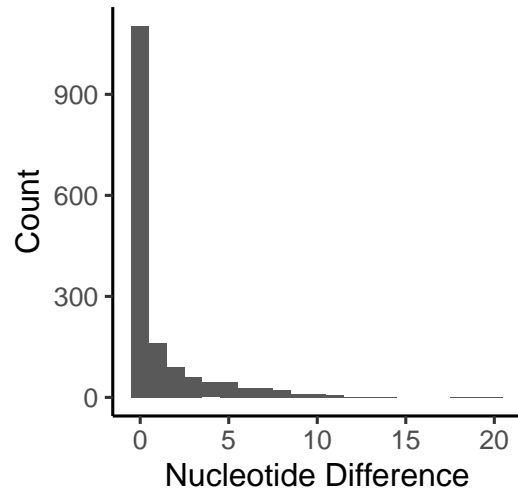
IGHV4-31*03

787 sequences assigned
577 (73.3%) exact matches, in which:
549 unique CDR3
6 unique J



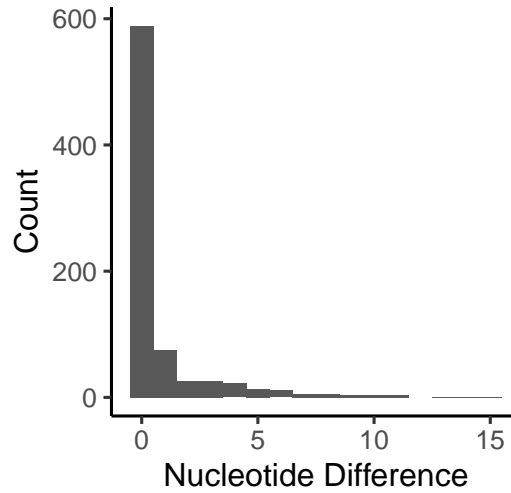
IGHV4–34*01

1623 sequences assigned
1104 (68%) exact matches, in which:
1011 unique CDR3
6 unique J



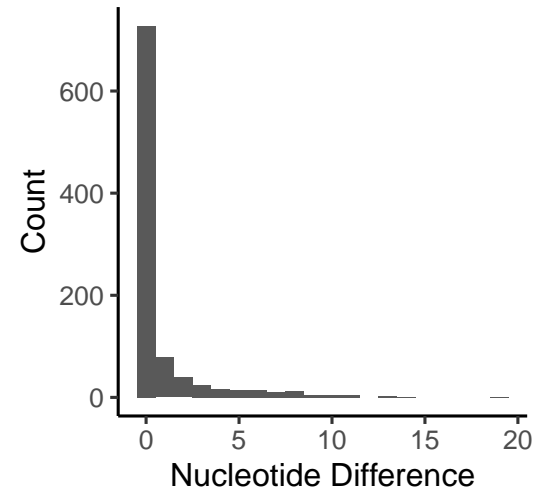
IGHV4–59*01

787 sequences assigned
589 (74.8%) exact matches, in which:
571 unique CDR3
6 unique J



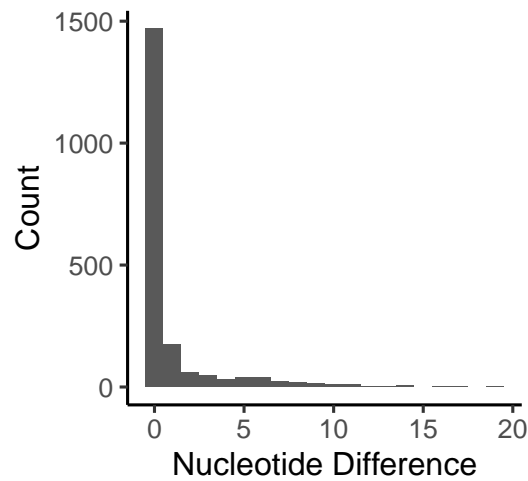
IGHV5–51*01

956 sequences assigned
728 (76.2%) exact matches, in which:
686 unique CDR3
6 unique J



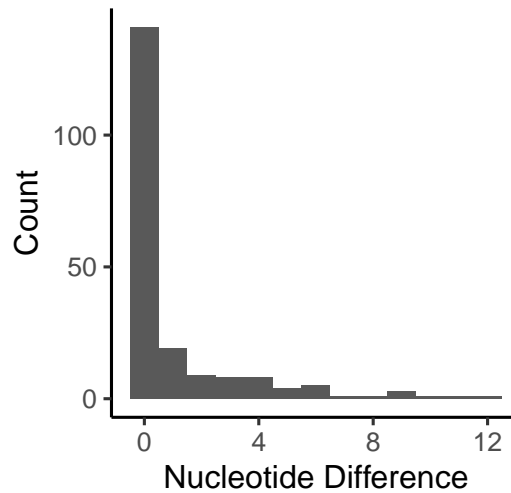
IGHV4–39*01

1955 sequences assigned
1469 (75.1%) exact matches, in which:
1343 unique CDR3
6 unique J



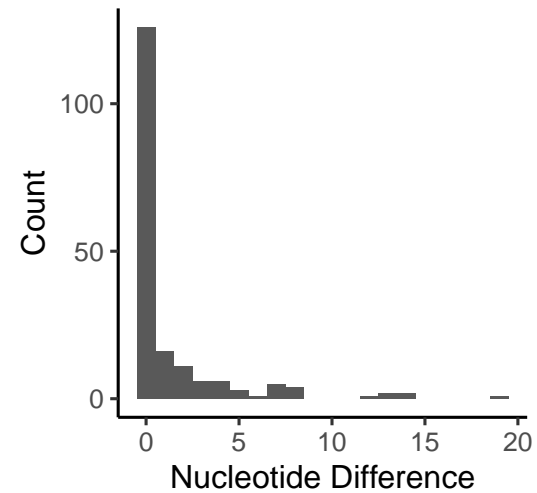
IGHV4–61*01

202 sequences assigned
141 (69.8%) exact matches, in which:
133 unique CDR3
6 unique J



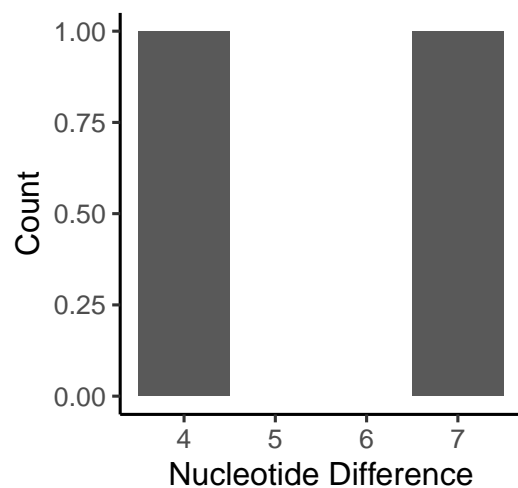
IGHV6–1*01

184 sequences assigned
126 (68.5%) exact matches, in which:
115 unique CDR3
5 unique J



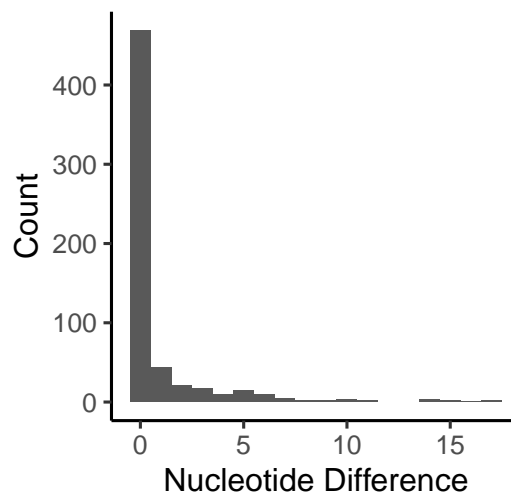
IGHV4–55*08

2 sequences assigned
No exact matches.



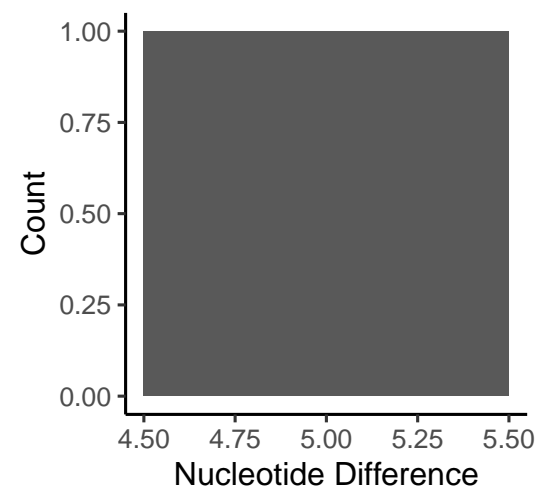
IGHV4–61*02

605 sequences assigned
469 (77.5%) exact matches, in which:
450 unique CDR3
6 unique J



IGHV3/OR16–15*02

1 sequences assigned
No exact matches.





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