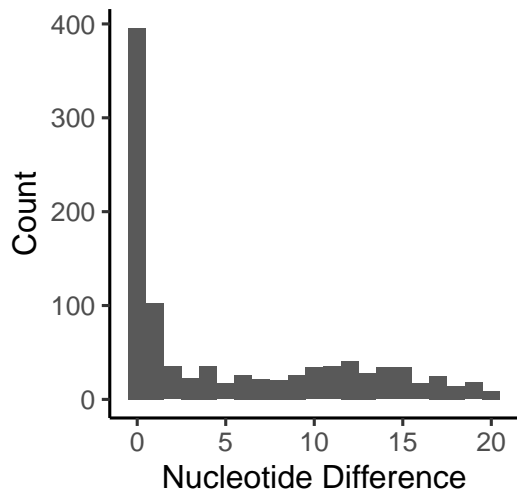


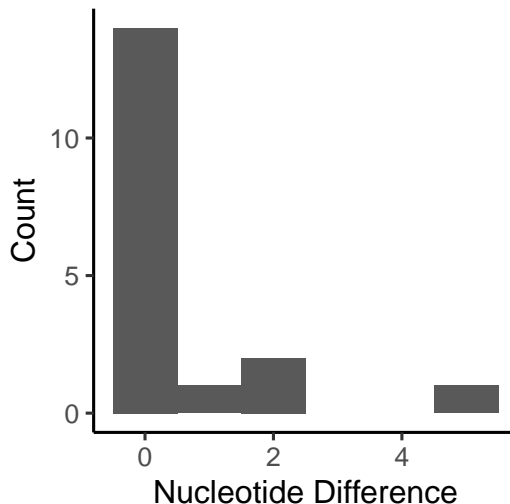
IGHV1-2*02

1137 sequences assigned
396 (34.8%) exact matches, in which:
393 unique CDR3
6 unique J



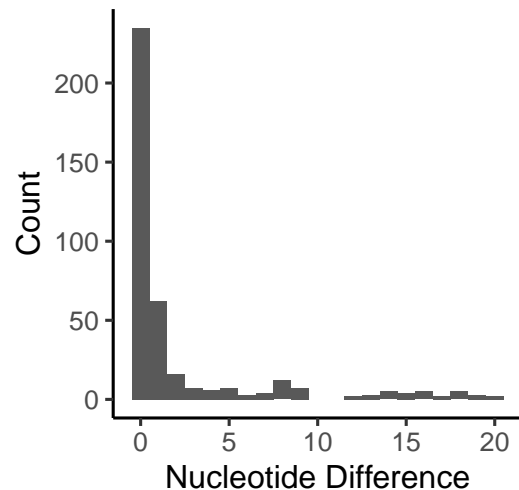
IGHV1-8*01

20 sequences assigned
14 (70%) exact matches, in which:
14 unique CDR3
4 unique J



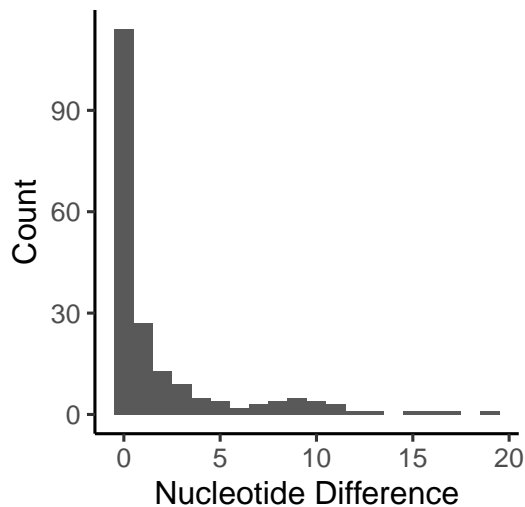
IGHV1-24*01

417 sequences assigned
235 (56.4%) exact matches, in which:
228 unique CDR3
6 unique J



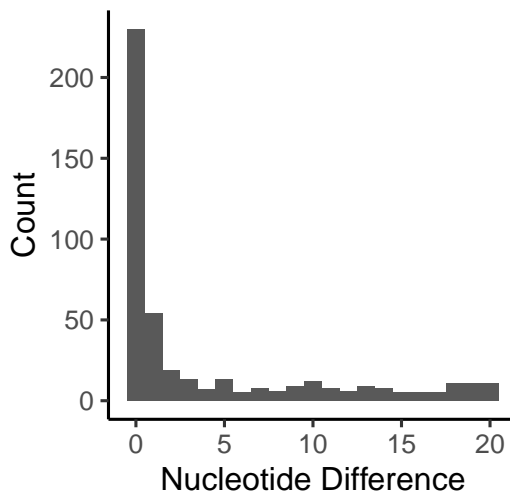
IGHV1-2*04

204 sequences assigned
114 (55.9%) exact matches, in which:
112 unique CDR3
5 unique J



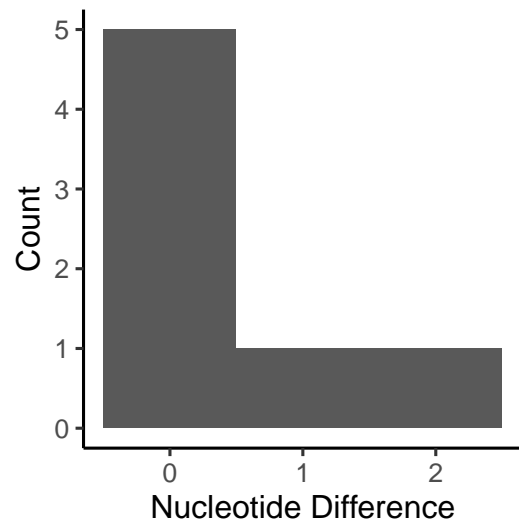
IGHV1-18*01

526 sequences assigned
230 (43.7%) exact matches, in which:
225 unique CDR3
5 unique J



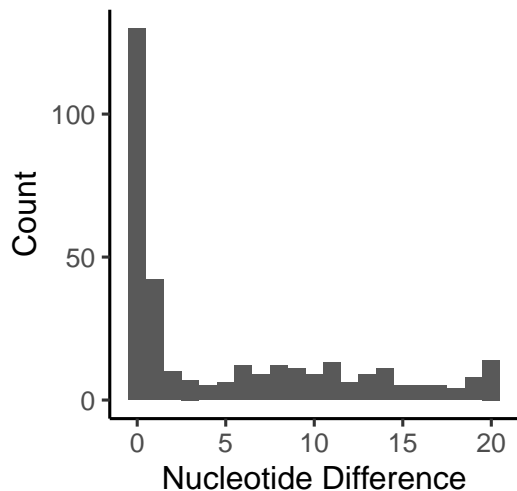
IGHV1-45*02

8 sequences assigned
5 (62.5%) exact matches, in which:
5 unique CDR3
2 unique J



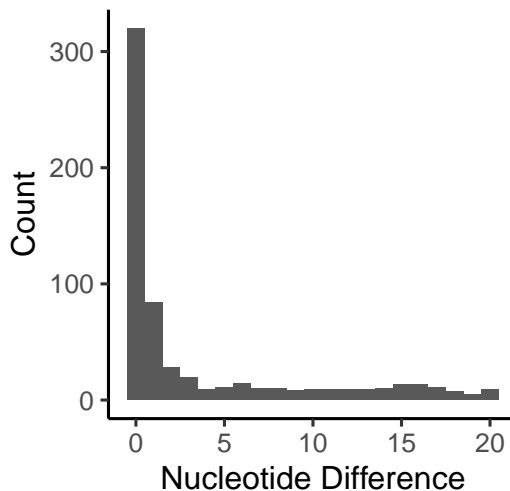
IGHV1-3*01

429 sequences assigned
130 (30.3%) exact matches, in which:
127 unique CDR3
6 unique J



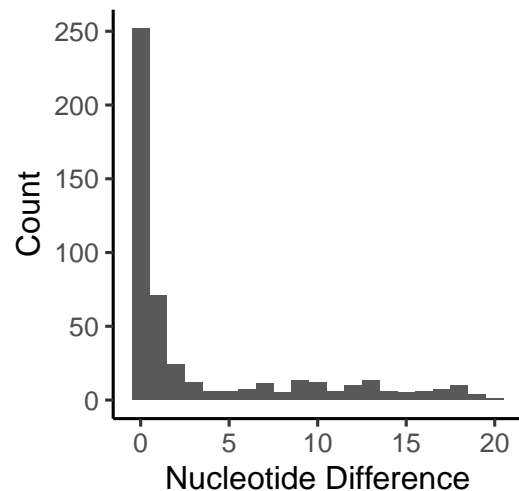
IGHV1-18*04

677 sequences assigned
320 (47.3%) exact matches, in which:
317 unique CDR3
6 unique J



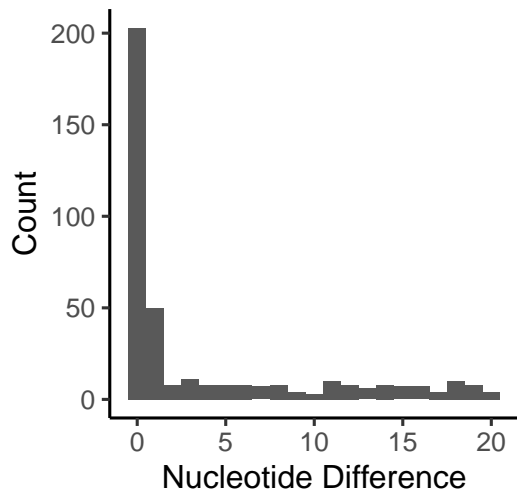
IGHV1-46*01

581 sequences assigned
252 (43.4%) exact matches, in which:
250 unique CDR3
6 unique J



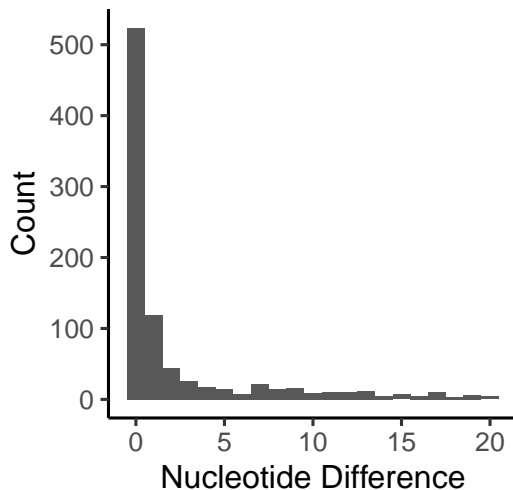
IGHV1-46*04

411 sequences assigned
203 (49.4%) exact matches, in which:
201 unique CDR3
6 unique J



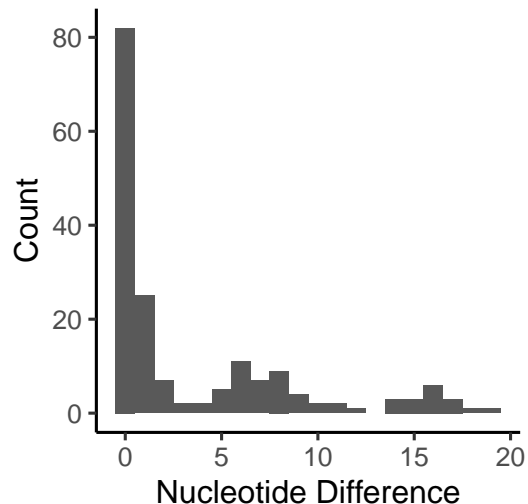
IGHV1-69*06

955 sequences assigned
524 (54.9%) exact matches, in which:
497 unique CDR3
6 unique J



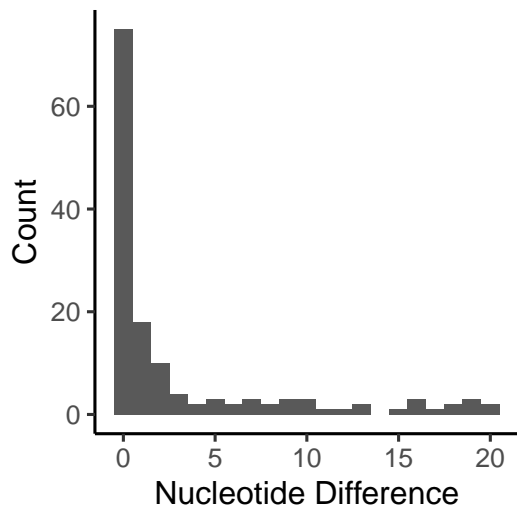
IGHV2-26*01

178 sequences assigned
82 (46.1%) exact matches, in which:
82 unique CDR3
5 unique J



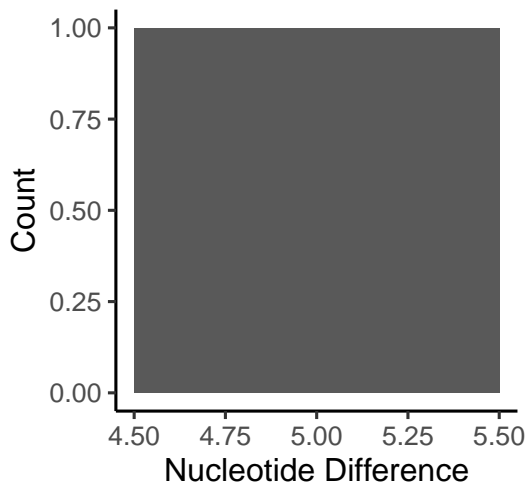
IGHV1-58*01

143 sequences assigned
75 (52.4%) exact matches, in which:
75 unique CDR3
5 unique J



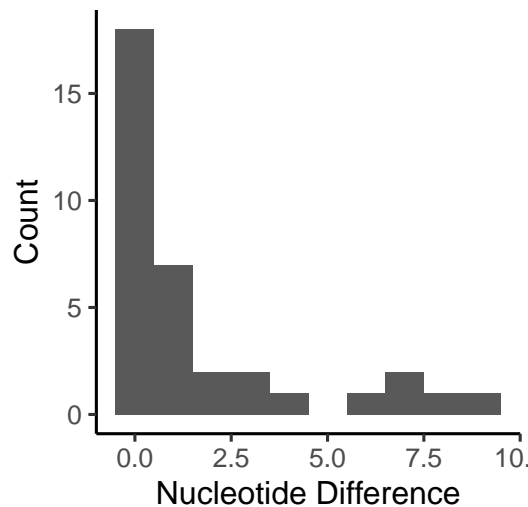
IGHV1-NL1*01

1 sequences assigned
No exact matches.



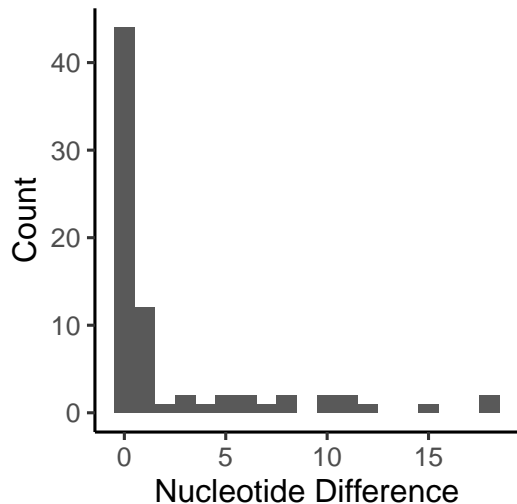
IGHV2-26*04

35 sequences assigned
18 (51.4%) exact matches, in which:
18 unique CDR3
4 unique J



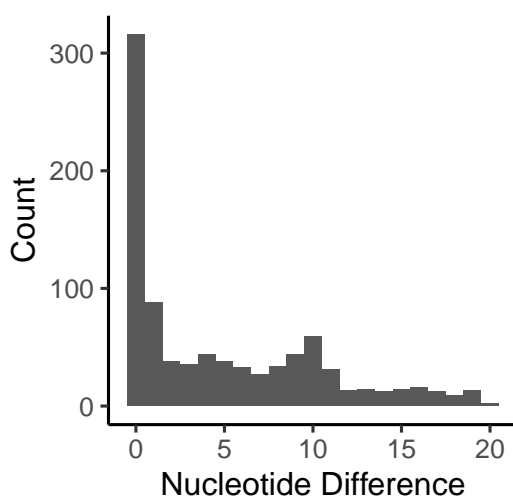
IGHV1-69-2*01

78 sequences assigned
44 (56.4%) exact matches, in which:
44 unique CDR3
4 unique J



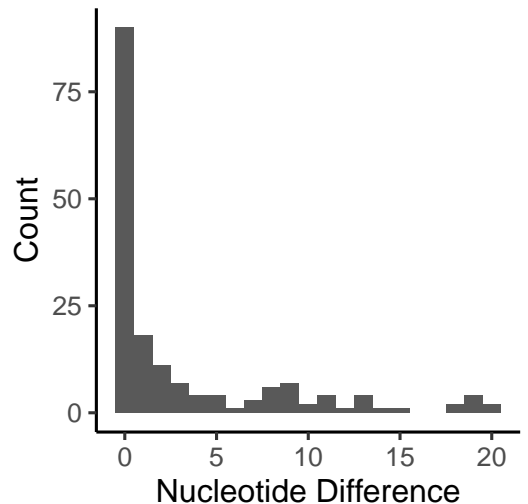
IGHV2-5*02

923 sequences assigned
316 (34.2%) exact matches, in which:
310 unique CDR3
6 unique J



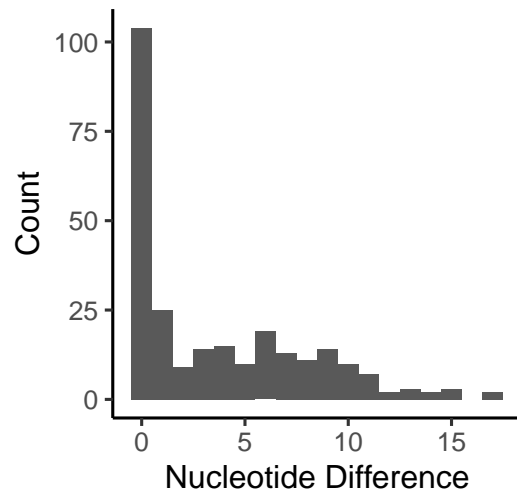
IGHV2-70*01

187 sequences assigned
90 (48.1%) exact matches, in which:
90 unique CDR3
5 unique J



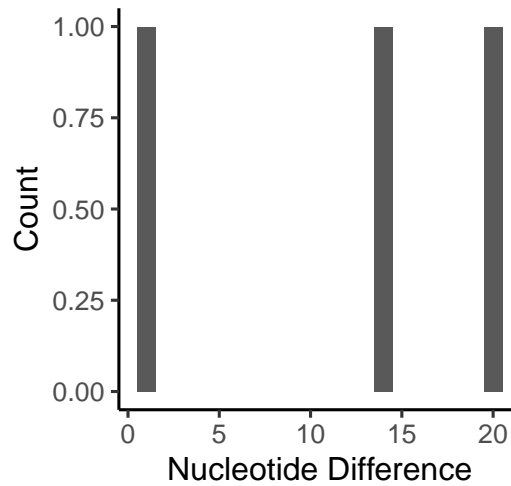
IGHV2-70*15

269 sequences assigned
104 (38.7%) exact matches, in which:
101 unique CDR3
5 unique J



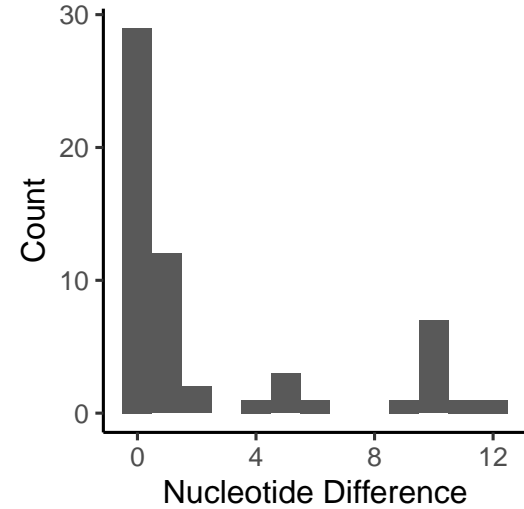
IGHV3-9*01

5 sequences assigned
No exact matches.



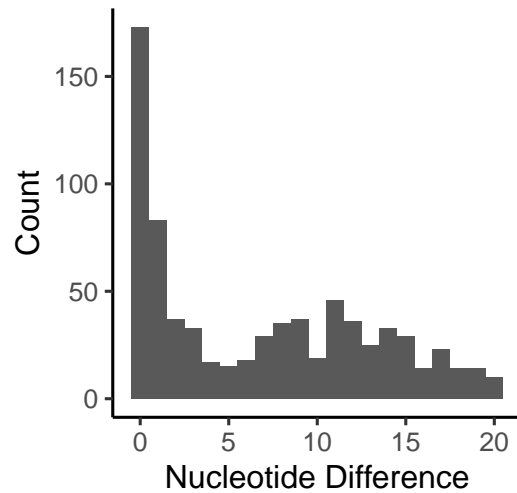
IGHV3-13*05

58 sequences assigned
29 (50%) exact matches, in which:
29 unique CDR3
4 unique J



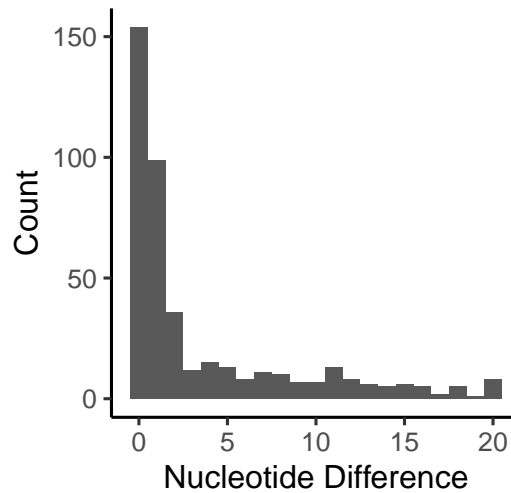
IGHV3-7*03

839 sequences assigned
173 (20.6%) exact matches, in which:
160 unique CDR3
6 unique J



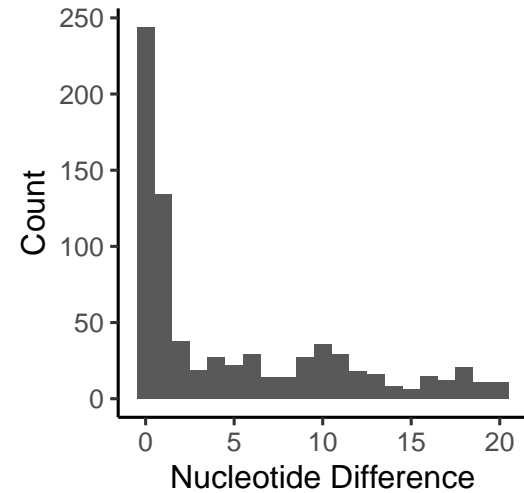
IGHV3-11*06

524 sequences assigned
154 (29.4%) exact matches, in which:
153 unique CDR3
6 unique J



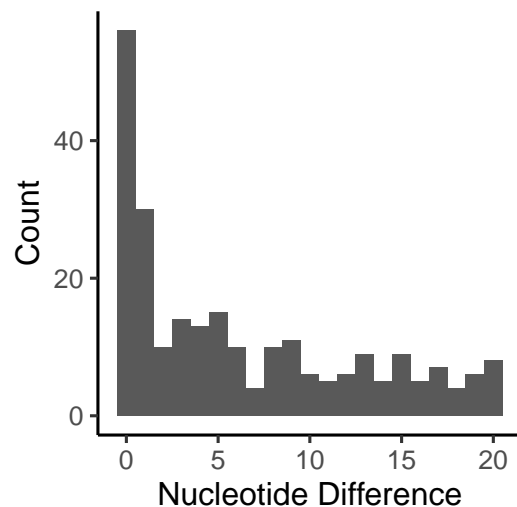
IGHV3-15*01

815 sequences assigned
244 (29.9%) exact matches, in which:
241 unique CDR3
6 unique J



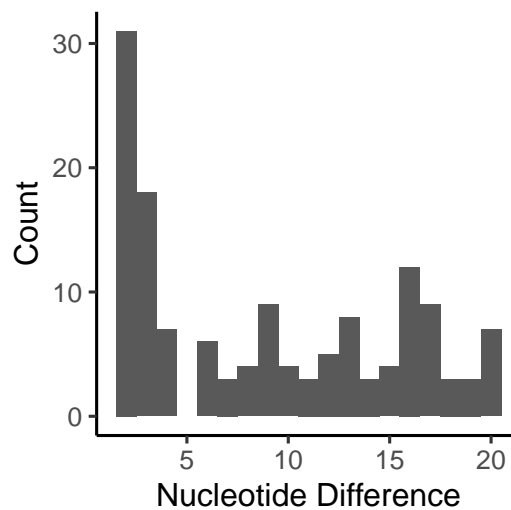
IGHV3-7*04

275 sequences assigned
56 (20.4%) exact matches, in which:
56 unique CDR3
5 unique J



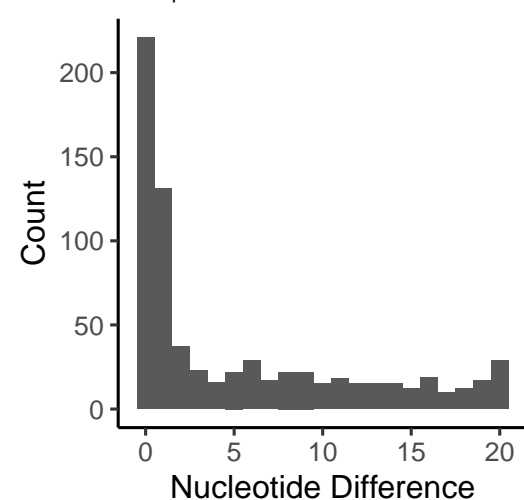
IGHV3-13*01

168 sequences assigned
No exact matches.



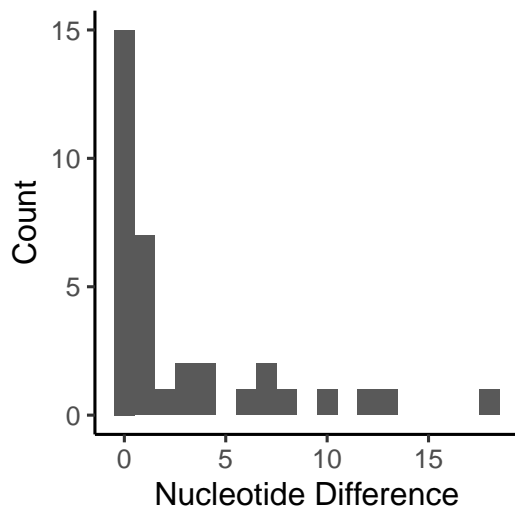
IGHV3-15*07

825 sequences assigned
221 (26.8%) exact matches, in which:
216 unique CDR3
6 unique J



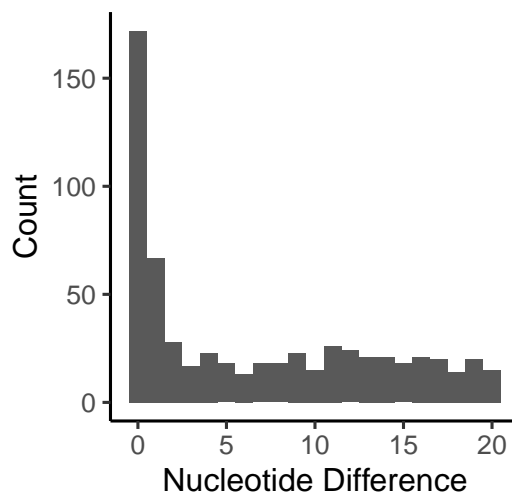
IGHV3-20*04

35 sequences assigned
15 (42.9%) exact matches, in which:
14 unique CDR3
3 unique J



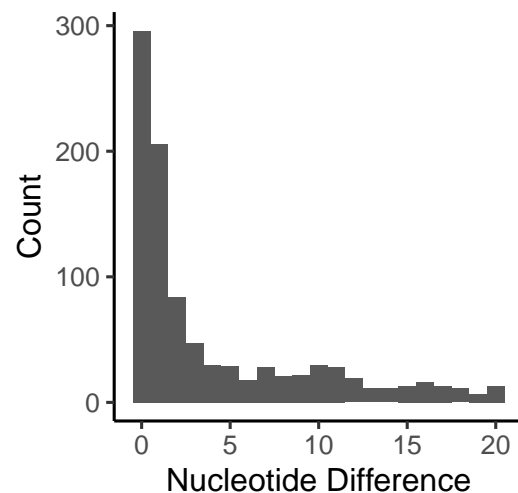
IGHV3-23*01_A152G

713 sequences assigned
172 (24.1%) exact matches, in which:
172 unique CDR3
6 unique J



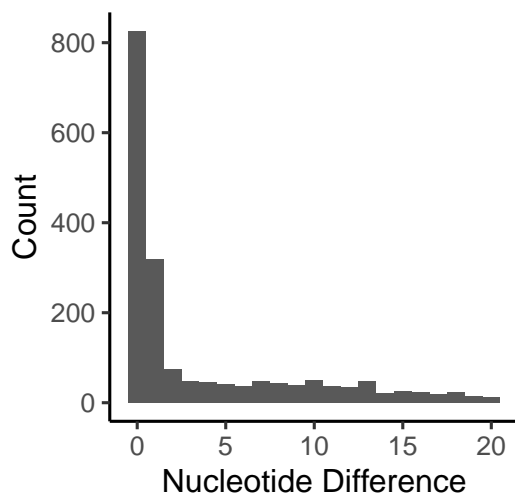
IGHV3-33*08

1068 sequences assigned
296 (27.7%) exact matches, in which:
292 unique CDR3
6 unique J



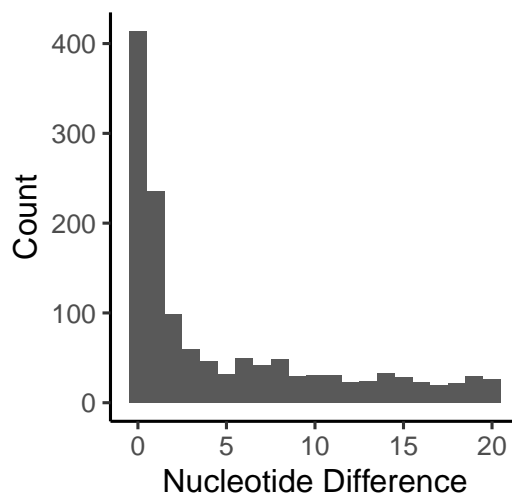
IGHV3-21*01

1911 sequences assigned
826 (43.2%) exact matches, in which:
816 unique CDR3
6 unique J



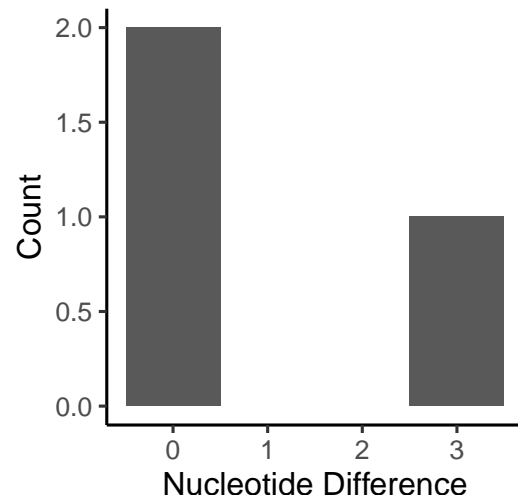
IGHV3-30-3*01

1686 sequences assigned
414 (24.6%) exact matches, in which:
402 unique CDR3
6 unique J



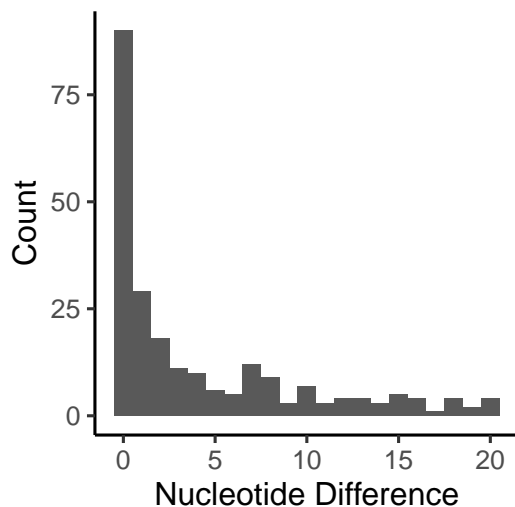
IGHV3-35*01

3 sequences assigned
2 (66.7%) exact matches, in which:
2 unique CDR3
2 unique J



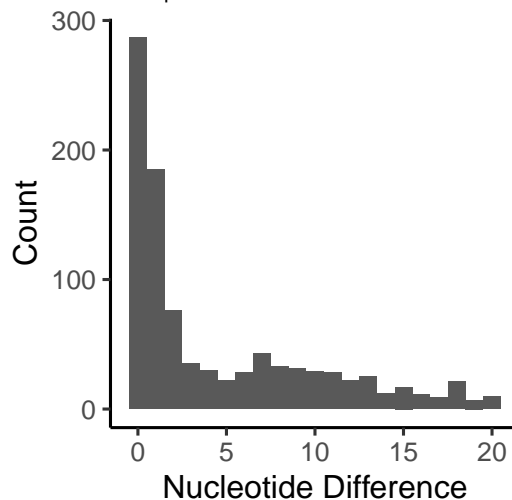
IGHV3-21*01_A152G

240 sequences assigned
90 (37.5%) exact matches, in which:
90 unique CDR3
5 unique J



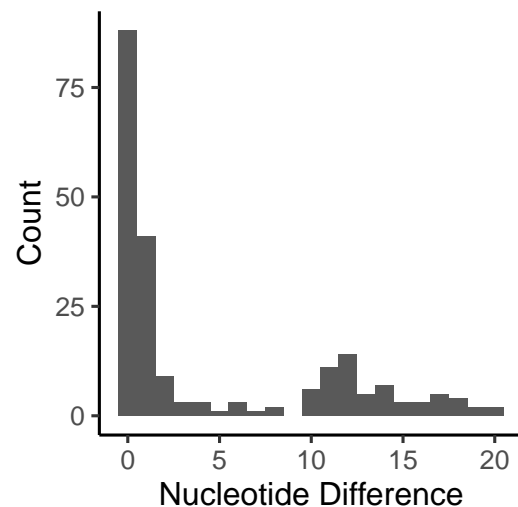
IGHV3-33*01

1104 sequences assigned
287 (26%) exact matches, in which:
285 unique CDR3
6 unique J



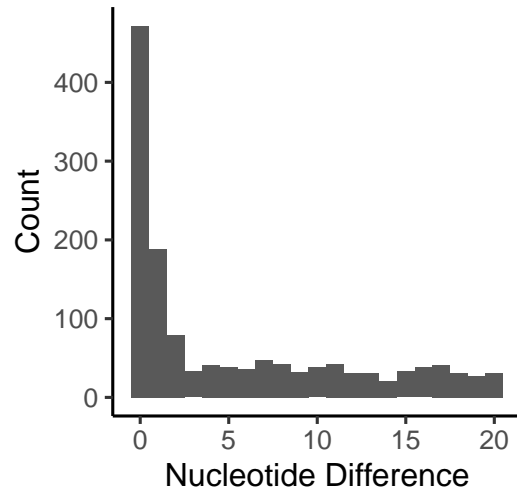
IGHV3-43*01

229 sequences assigned
88 (38.4%) exact matches, in which:
85 unique CDR3
5 unique J



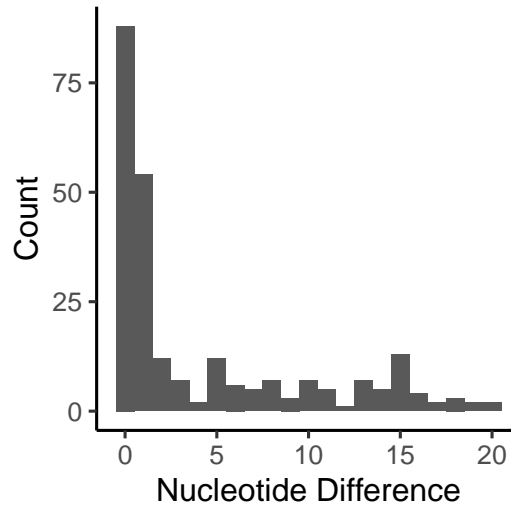
IGHV3-48*01

1612 sequences assigned
472 (29.3%) exact matches, in which:
466 unique CDR3
6 unique J



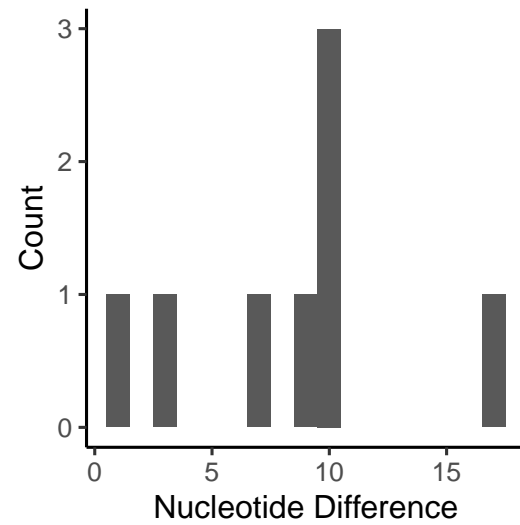
IGHV3-53*02

258 sequences assigned
88 (34.1%) exact matches, in which:
88 unique CDR3
5 unique J



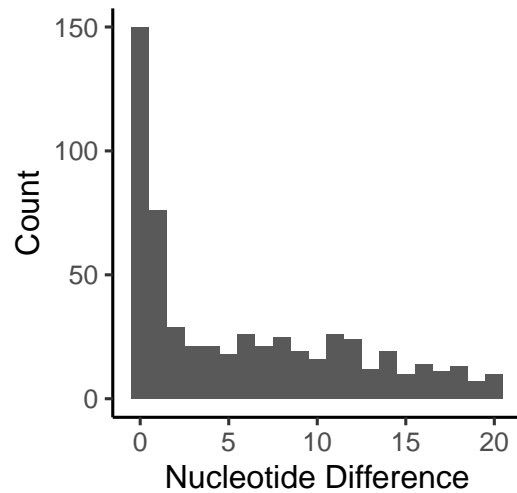
IGHV3-66*03

8 sequences assigned
No exact matches.



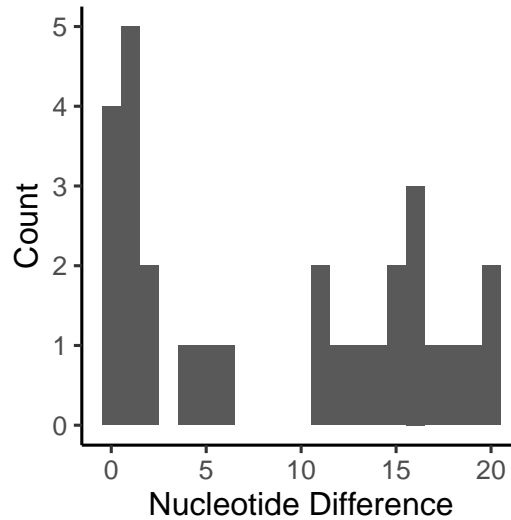
IGHV3-49*03

626 sequences assigned
150 (24%) exact matches, in which:
149 unique CDR3
6 unique J



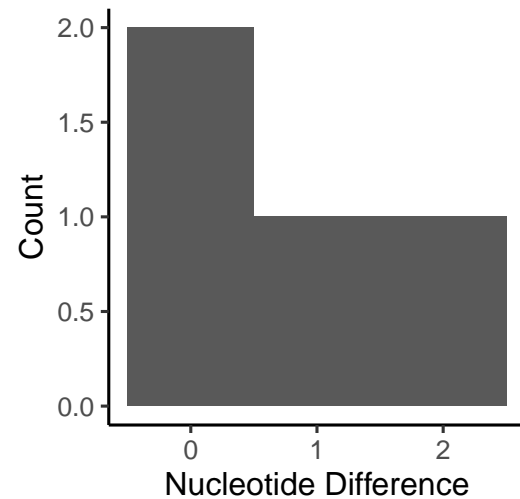
IGHV3-64*02

31 sequences assigned
4 (12.9%) exact matches, in which:
4 unique CDR3
3 unique J



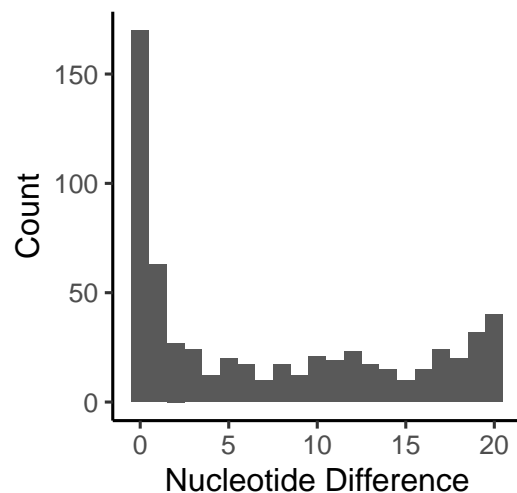
IGHV3-66*04

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



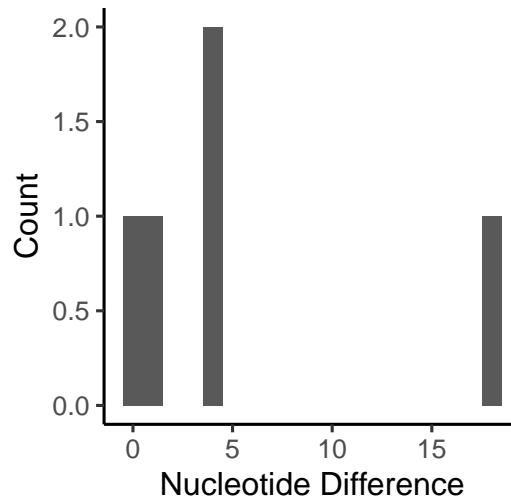
IGHV3-53*01

684 sequences assigned
170 (24.9%) exact matches, in which:
168 unique CDR3
6 unique J



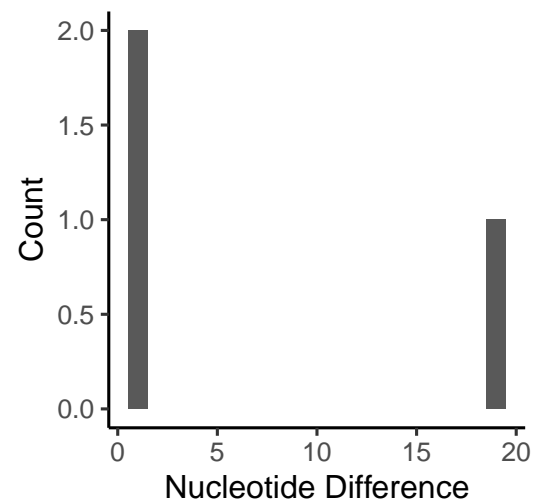
IGHV3-66*01

5 sequences assigned
1 (20%) exact matches, in which:
1 unique CDR3
0 unique J



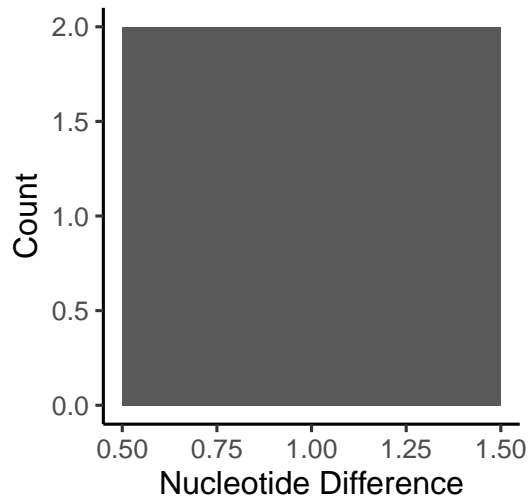
IGHV3-69-1*01

4 sequences assigned
No exact matches.



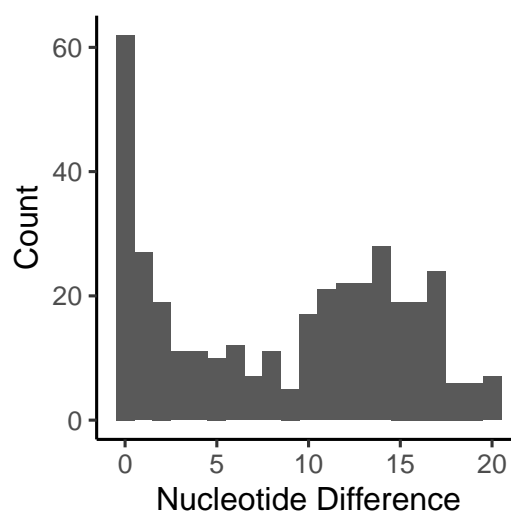
IGHV3-69-1*02

2 sequences assigned
No exact matches.



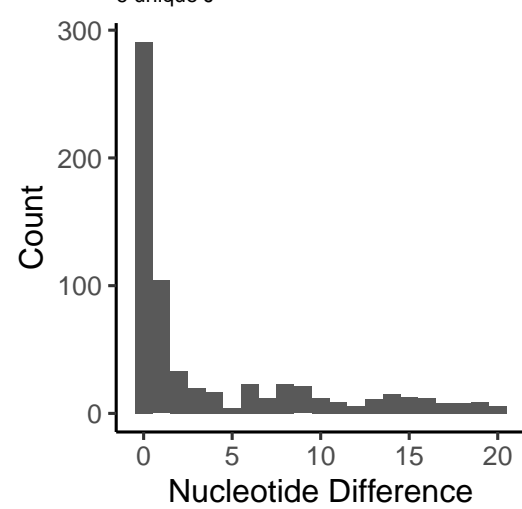
IGHV3-73*02

391 sequences assigned
62 (15.9%) exact matches, in which:
61 unique CDR3
5 unique J



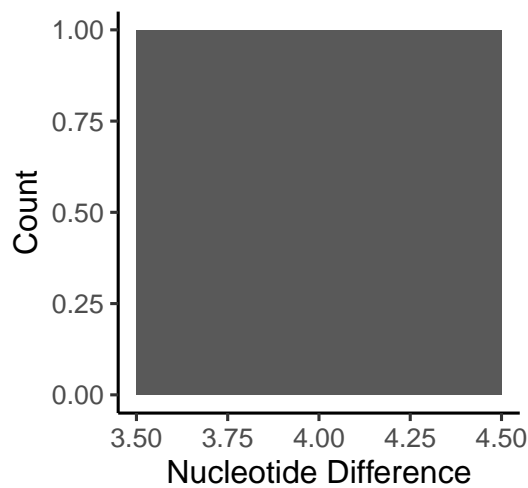
IGHV4-4*02

793 sequences assigned
291 (36.7%) exact matches, in which:
283 unique CDR3
6 unique J



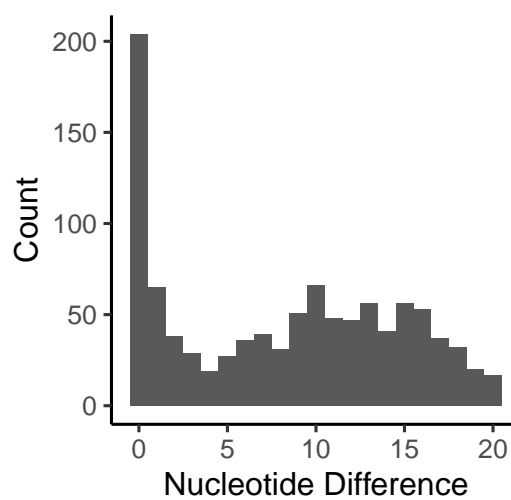
IGHV3-71*03

1 sequences assigned
No exact matches.



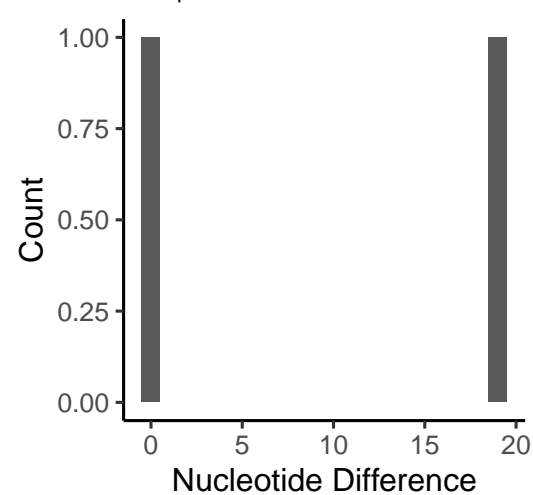
IGHV3-74*01

1221 sequences assigned
204 (16.7%) exact matches, in which:
200 unique CDR3
6 unique J



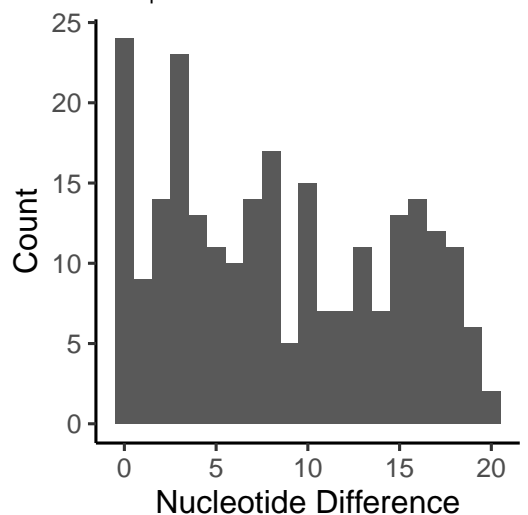
IGHV4-28*01

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



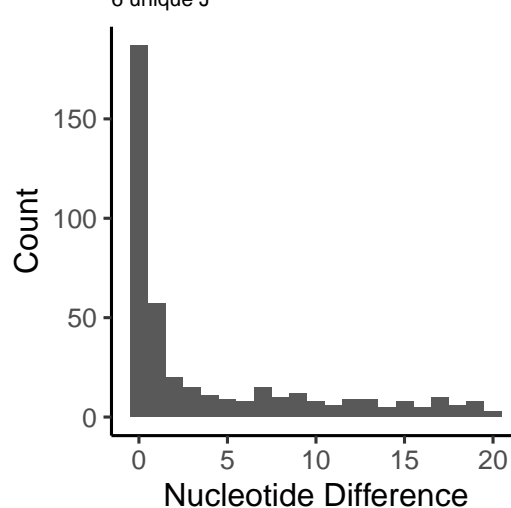
IGHV3-72*01

305 sequences assigned
24 (7.9%) exact matches, in which:
24 unique CDR3
5 unique J



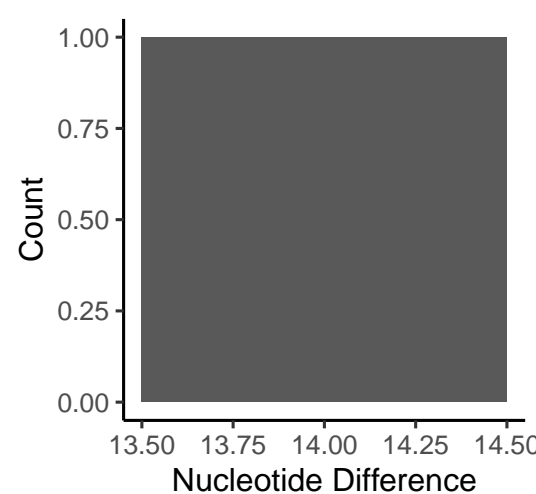
IGHV3-64D*06

487 sequences assigned
187 (38.4%) exact matches, in which:
184 unique CDR3
6 unique J



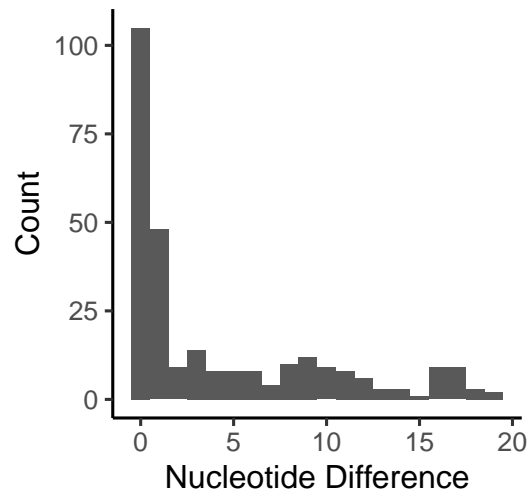
IGHV4-28*07

5 sequences assigned
No exact matches.



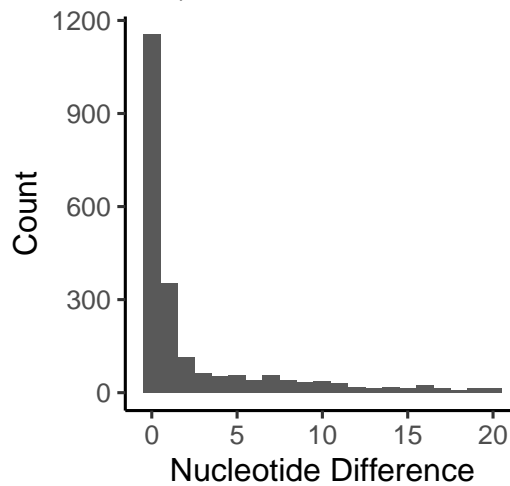
IGHV4-30-4*01

313 sequences assigned
105 (33.5%) exact matches, in which:
105 unique CDR3
6 unique J



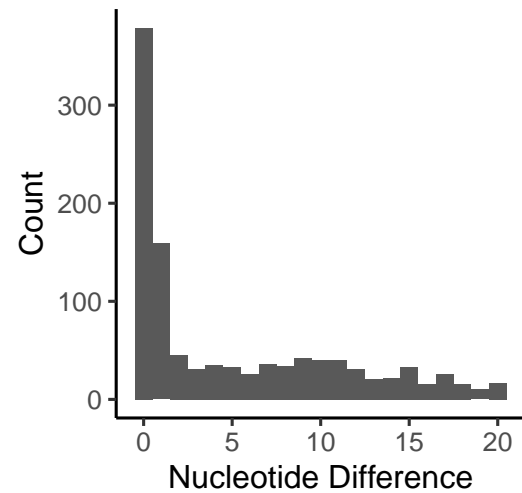
IGHV4-34*01

2368 sequences assigned
1155 (48.8%) exact matches, in which:
1143 unique CDR3
6 unique J



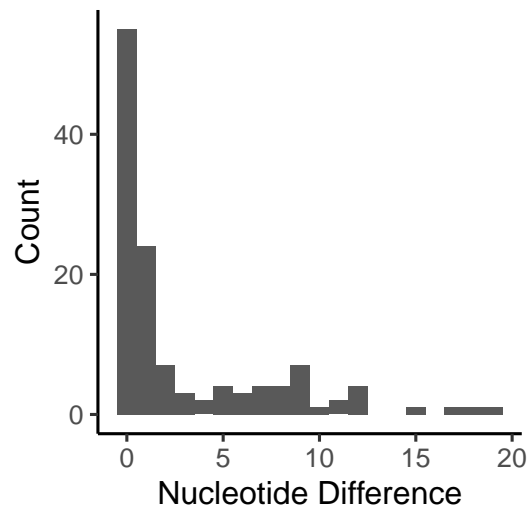
IGHV4-59*01

1329 sequences assigned
379 (28.5%) exact matches, in which:
377 unique CDR3
6 unique J



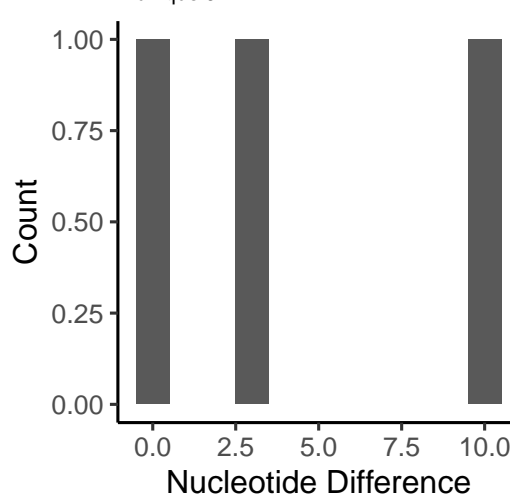
IGHV4-30-2*01

133 sequences assigned
55 (41.4%) exact matches, in which:
55 unique CDR3
5 unique J



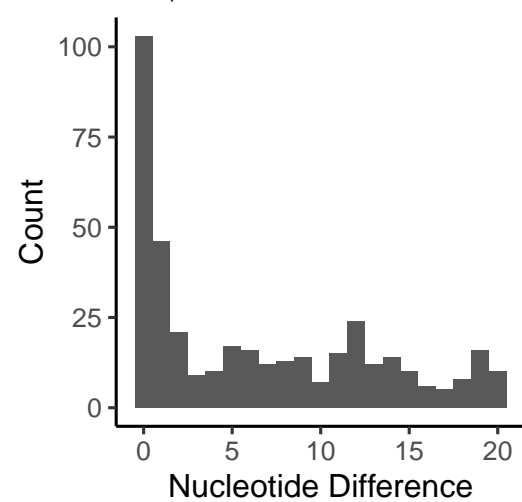
IGHV4-38-2*02

3 sequences assigned
1 (33.3%) exact matches, in which:
1 unique CDR3
1 unique J



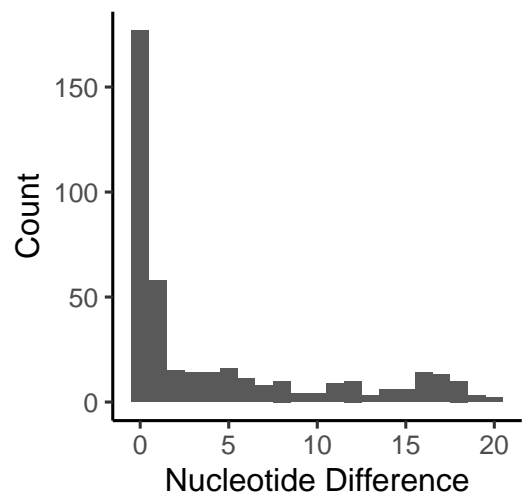
IGHV4-61*01

537 sequences assigned
103 (19.2%) exact matches, in which:
103 unique CDR3
6 unique J



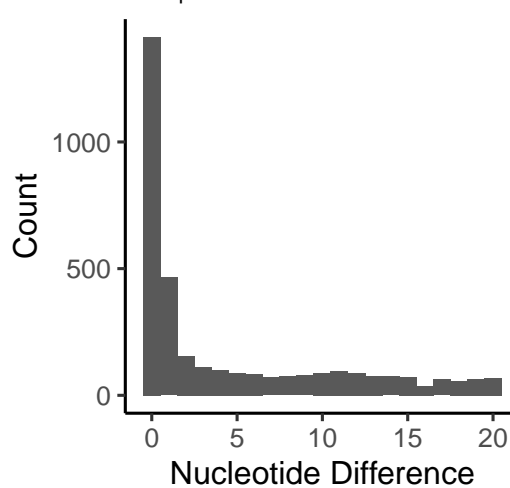
IGHV4-31*03

425 sequences assigned
177 (41.6%) exact matches, in which:
174 unique CDR3
6 unique J



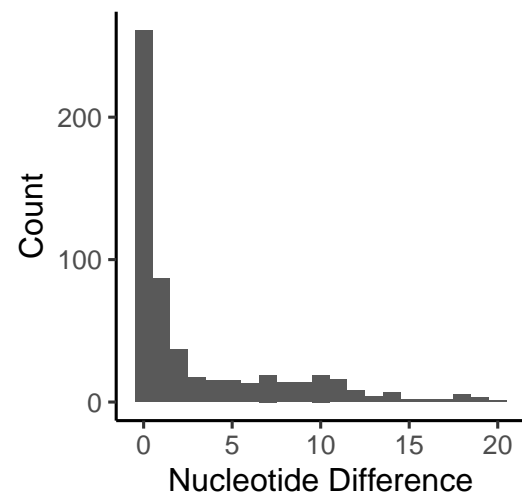
IGHV4-39*01

4026 sequences assigned
1414 (35.1%) exact matches, in which:
1392 unique CDR3
6 unique J



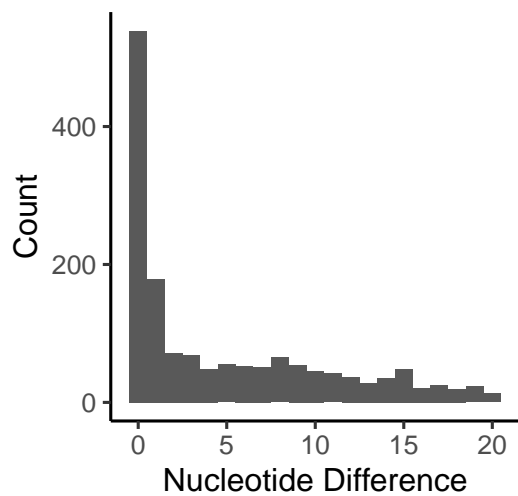
IGHV5-10-1*03

576 sequences assigned
261 (45.3%) exact matches, in which:
254 unique CDR3
5 unique J



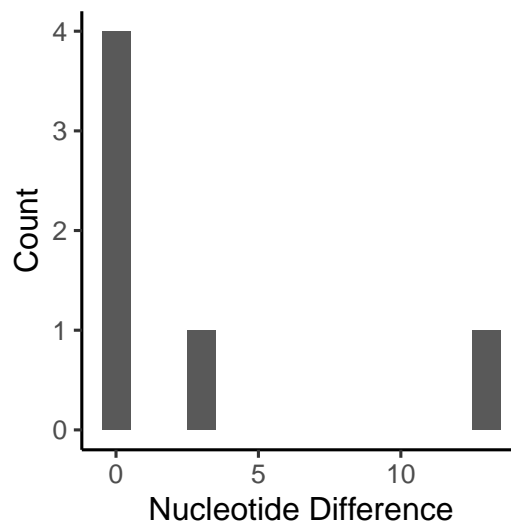
IGHV5-51*01

1629 sequences assigned
539 (33.1%) exact matches, in which:
529 unique CDR3
6 unique J



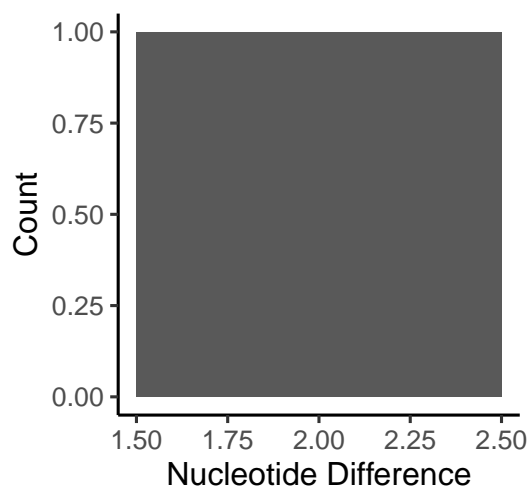
IGHV7-4-1*01

6 sequences assigned
4 (66.7%) exact matches, in which:
4 unique CDR3
3 unique J



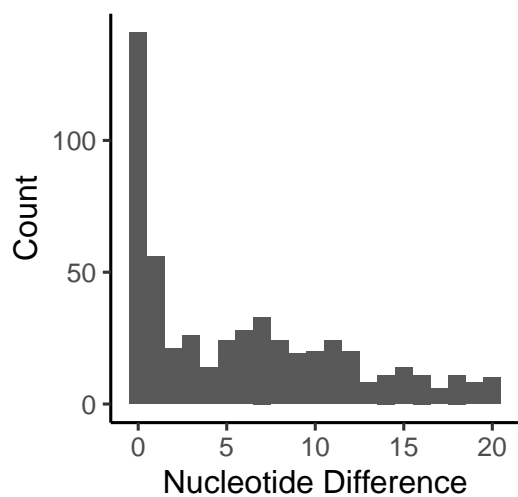
IGHV5-78*01

1 sequences assigned
No exact matches.



IGHV6-1*01

566 sequences assigned
141 (24.9%) exact matches, in which:
140 unique CDR3
5 unique J





Warning – no inferred sequences found.