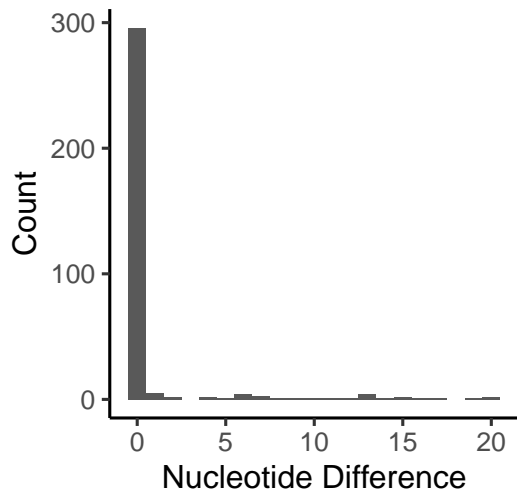


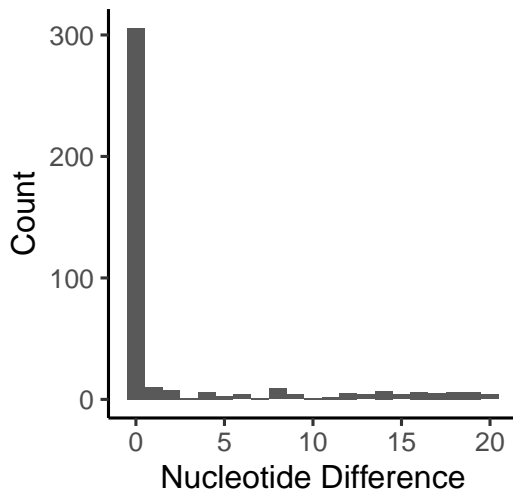
IGHV1-2*04

351 sequences assigned
296 (84.3%) exact matches, in which:
295 unique CDR3
6 unique J



IGHV1-8*01

454 sequences assigned
306 (67.4%) exact matches, in which:
306 unique CDR3
6 unique J



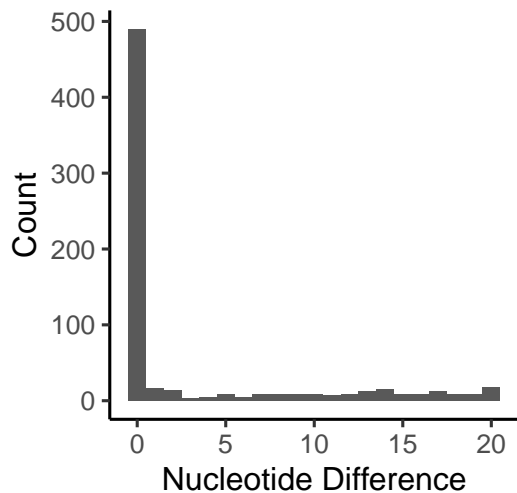
IGHV1-38-4*01

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



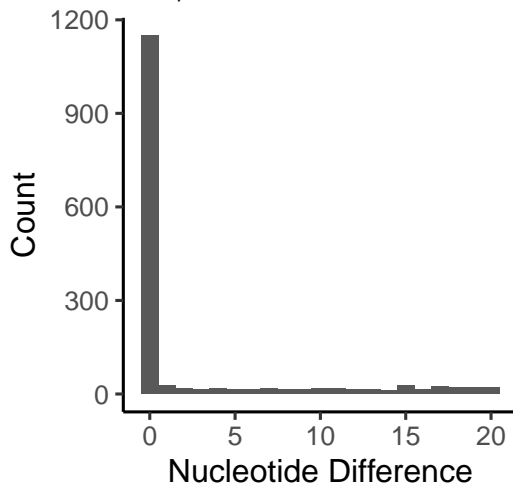
IGHV1-2*06

806 sequences assigned
490 (60.8%) exact matches, in which:
490 unique CDR3
6 unique J



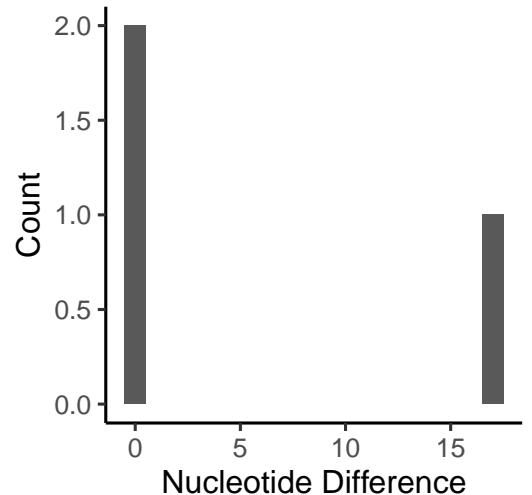
IGHV1-18*01

1759 sequences assigned
1149 (65.3%) exact matches, in which:
1148 unique CDR3
6 unique J



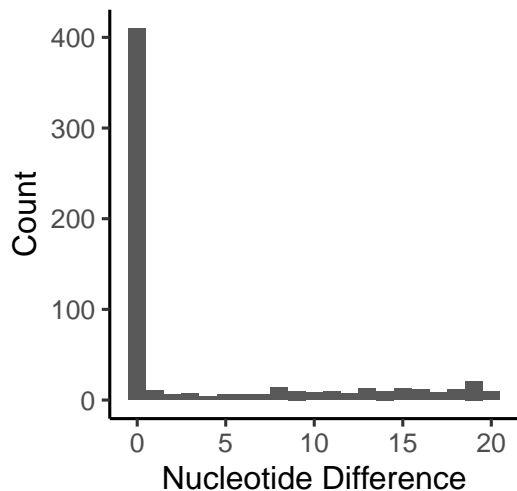
IGHV1-45*02

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



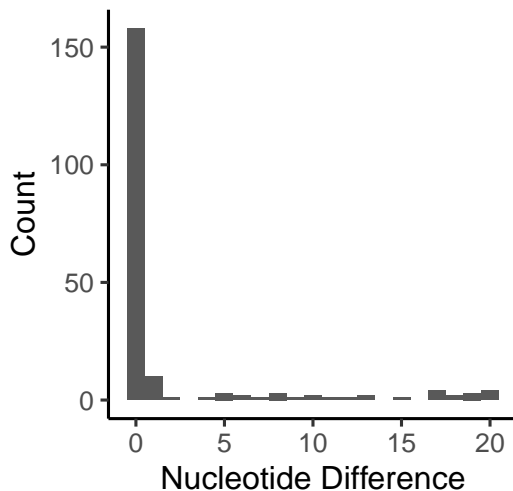
IGHV1-3*01_05

688 sequences assigned
410 (59.6%) exact matches, in which:
410 unique CDR3
6 unique J



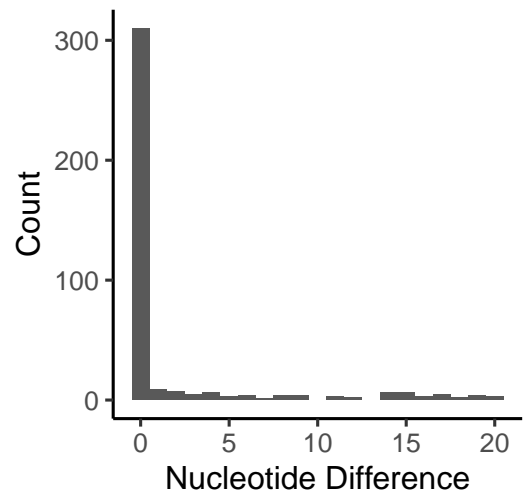
IGHV1-24*01

239 sequences assigned
158 (66.1%) exact matches, in which:
158 unique CDR3
5 unique J



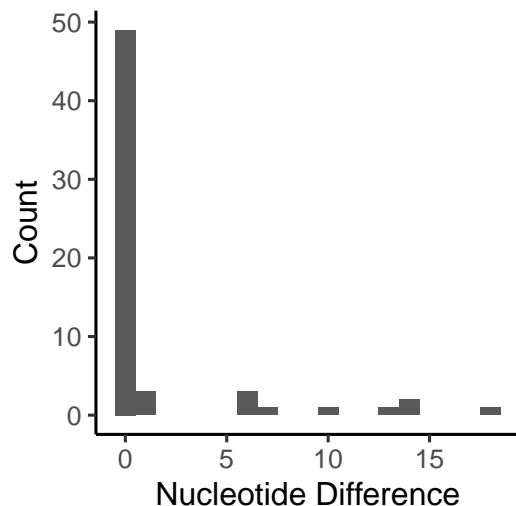
IGHV1-46*03

435 sequences assigned
310 (71.3%) exact matches, in which:
310 unique CDR3
6 unique J



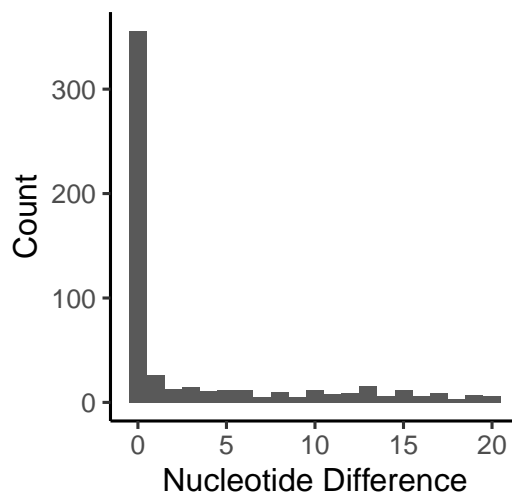
IGHV1–58*02

71 sequences assigned
49 (69%) exact matches, in which:
49 unique CDR3
6 unique J



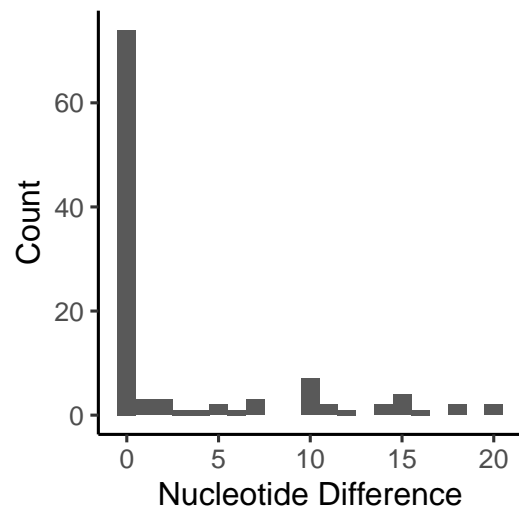
IGHV2–5*02

624 sequences assigned
356 (57.1%) exact matches, in which:
355 unique CDR3
6 unique J



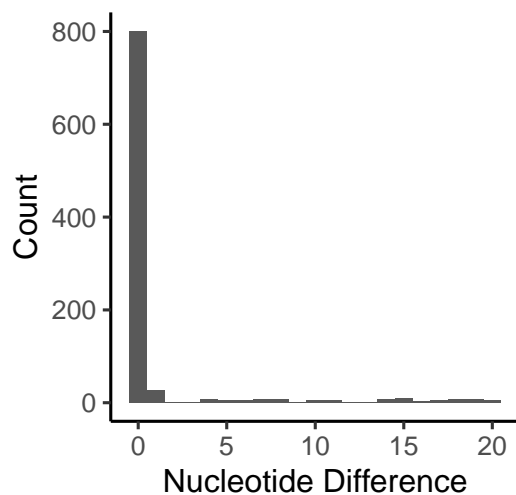
IGHV2–70*11_15

119 sequences assigned
74 (62.2%) exact matches, in which:
73 unique CDR3
5 unique J



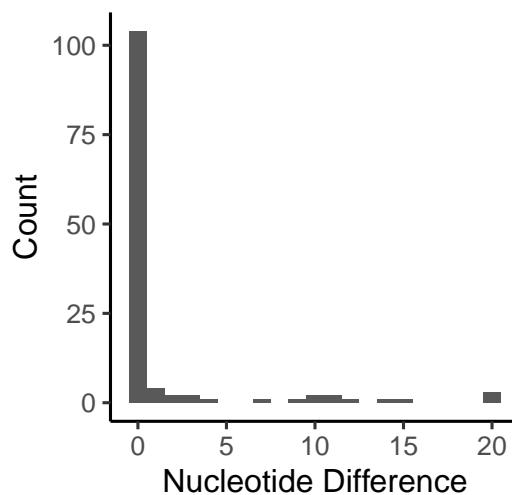
IGHV1–69*01_12_13

990 sequences assigned
801 (80.9%) exact matches, in which:
799 unique CDR3
6 unique J



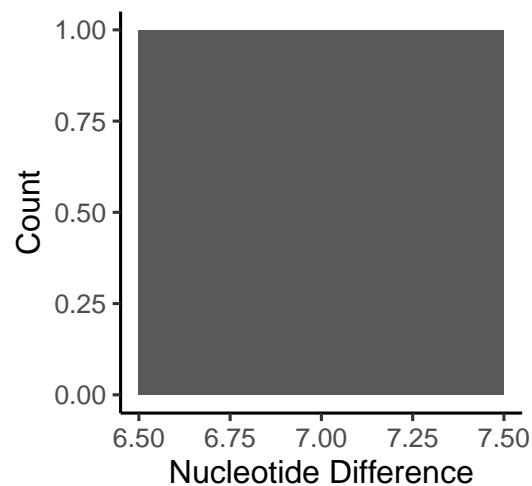
IGHV2–26*01

130 sequences assigned
104 (80%) exact matches, in which:
104 unique CDR3
5 unique J



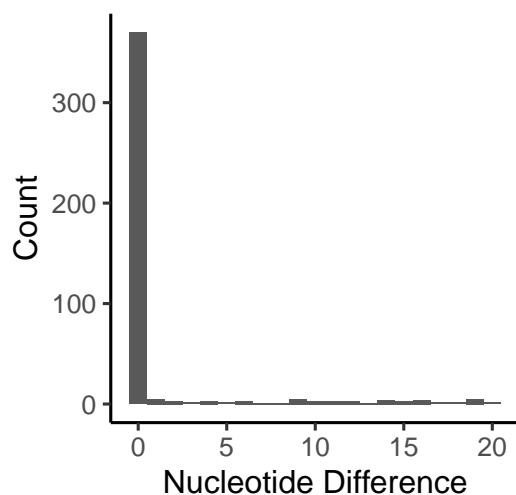
IGHV2–70D*04

1 sequences assigned
No exact matches.



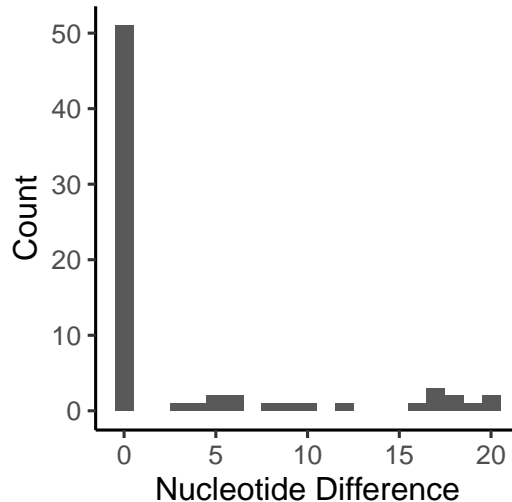
IGHV1–69*04_09

473 sequences assigned
370 (78.2%) exact matches, in which:
369 unique CDR3
6 unique J



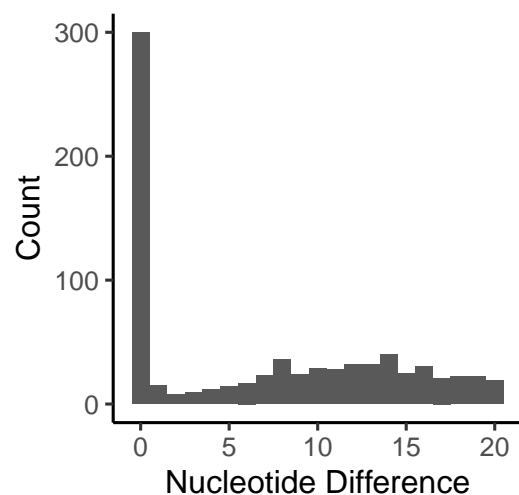
IGHV2–70*01

82 sequences assigned
51 (62.2%) exact matches, in which:
51 unique CDR3
4 unique J



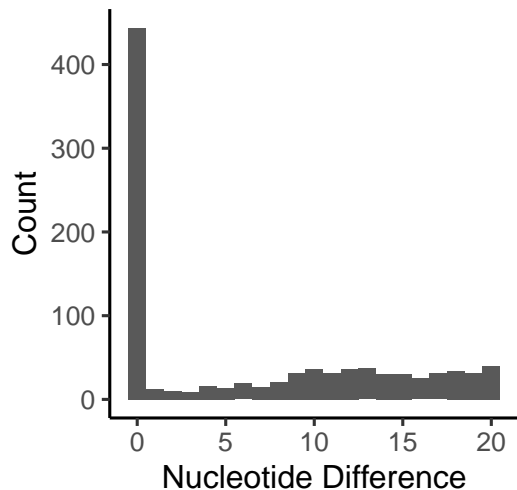
IGHV3–7*01

871 sequences assigned
300 (34.4%) exact matches, in which:
293 unique CDR3
6 unique J



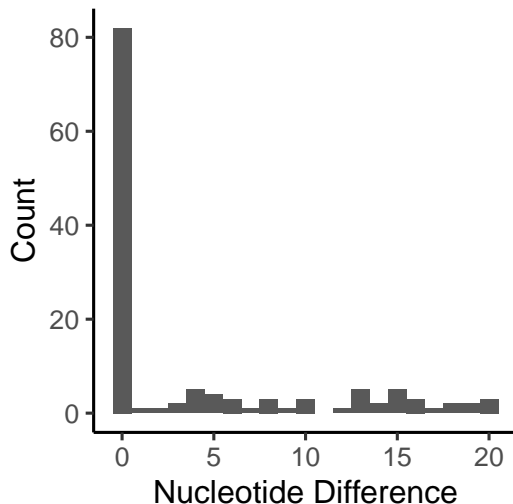
IGHV3-7*03

1175 sequences assigned
444 (37.8%) exact matches, in which:
436 unique CDR3
6 unique J



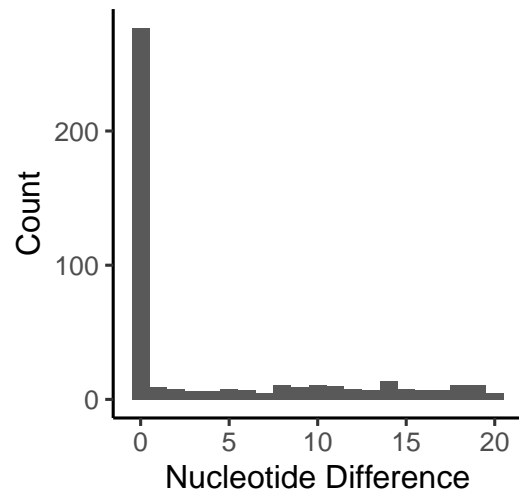
IGHV3-11*06

151 sequences assigned
82 (54.3%) exact matches, in which:
82 unique CDR3
5 unique J



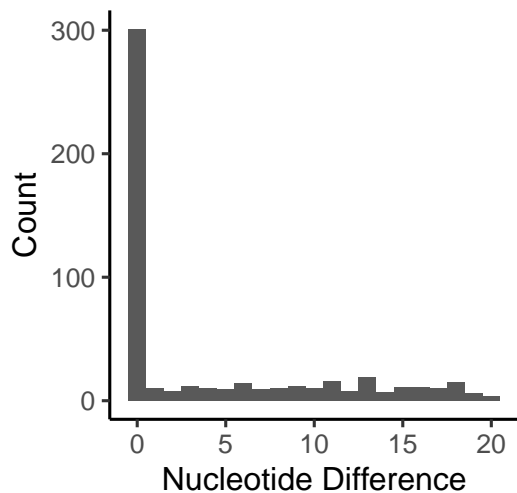
IGHV3-15*01_02

519 sequences assigned
277 (53.4%) exact matches, in which:
272 unique CDR3
6 unique J



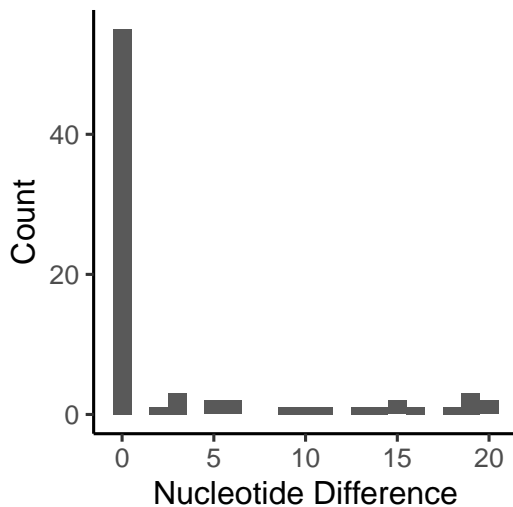
IGHV3-9*01

604 sequences assigned
301 (49.8%) exact matches, in which:
301 unique CDR3
6 unique J



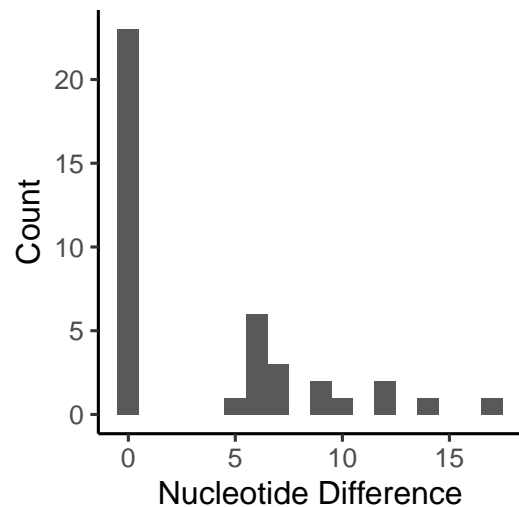
IGHV3-13*01

92 sequences assigned
55 (59.8%) exact matches, in which:
55 unique CDR3
5 unique J



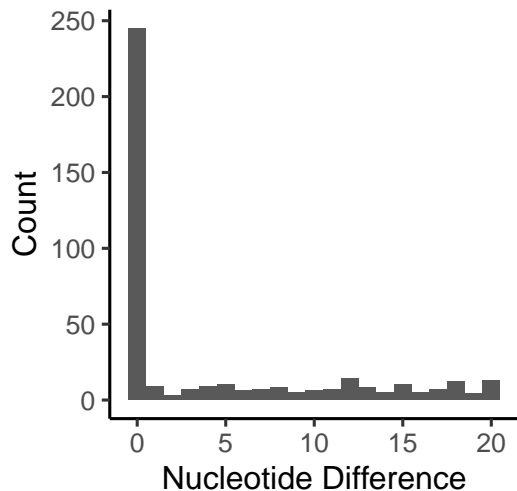
IGHV3-20*01_02

51 sequences assigned
23 (45.1%) exact matches, in which:
22 unique CDR3
5 unique J



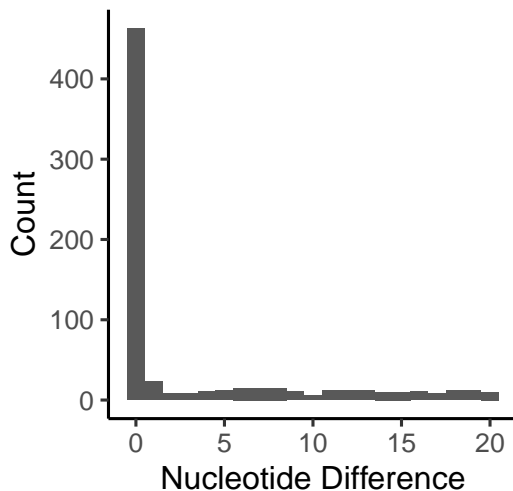
IGHV3-11*01

484 sequences assigned
245 (50.6%) exact matches, in which:
244 unique CDR3
6 unique J



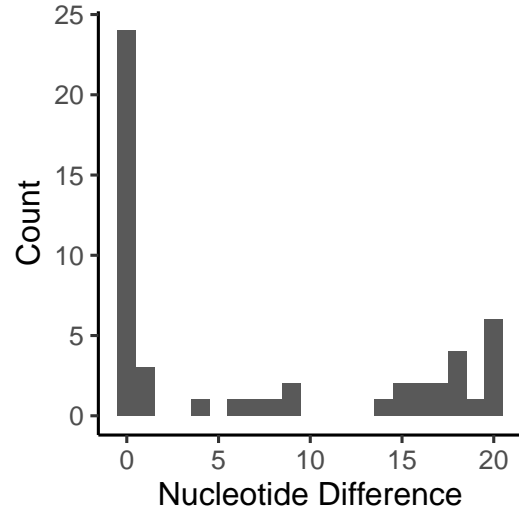
IGHV3-15*07

819 sequences assigned
463 (56.5%) exact matches, in which:
455 unique CDR3
6 unique J



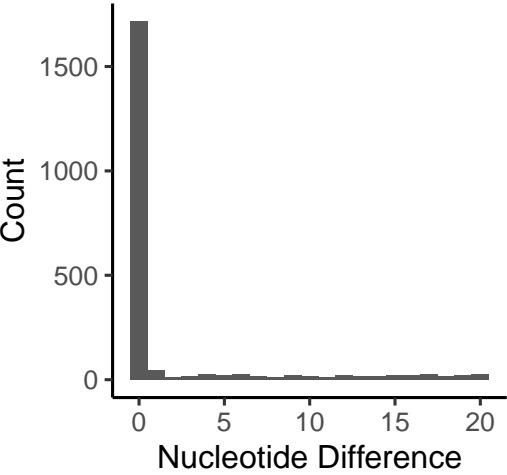
IGHV3-20*03_04

78 sequences assigned
24 (30.8%) exact matches, in which:
24 unique CDR3
4 unique J



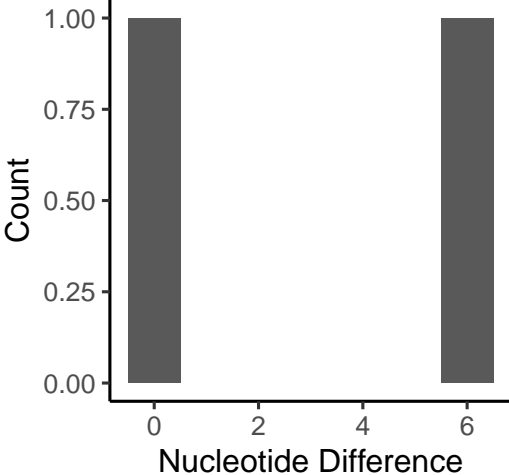
IGHV3-21*01_02

2395 sequences assigned
1716 (71.6%) exact matches, in which:
1695 unique CDR3
6 unique J



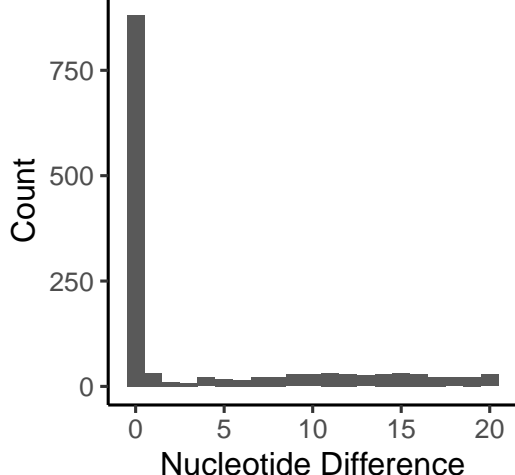
IGHV3-38-3*01

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



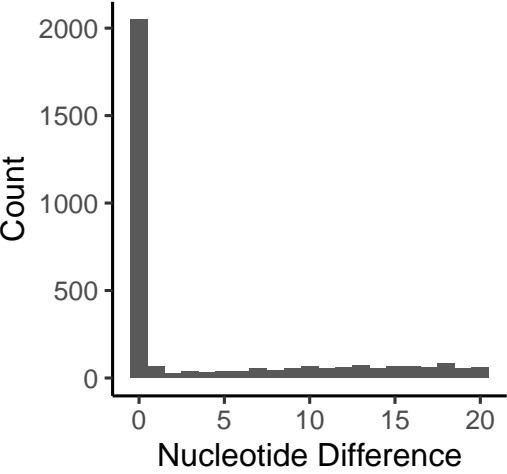
IGHV3-48*01

1598 sequences assigned
882 (55.2%) exact matches, in which:
867 unique CDR3
6 unique J



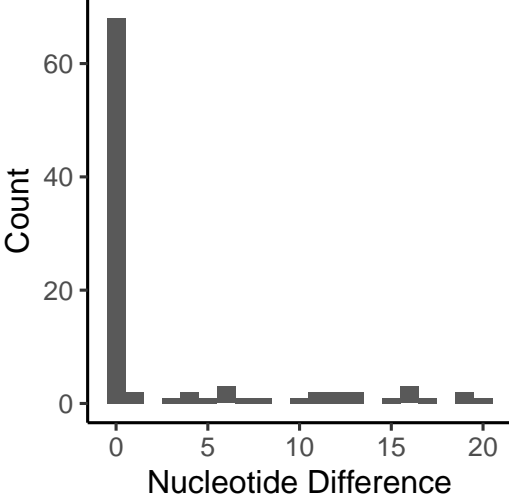
IGHV3-23*01_04

3926 sequences assigned
2048 (52.2%) exact matches, in which:
2004 unique CDR3
6 unique J



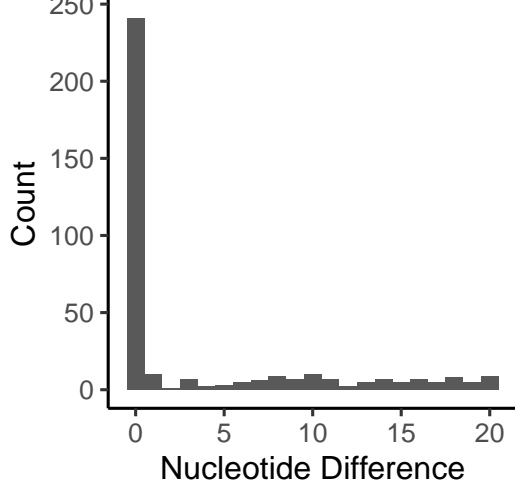
IGHV3-43*01

103 sequences assigned
68 (66%) exact matches, in which:
67 unique CDR3
6 unique J



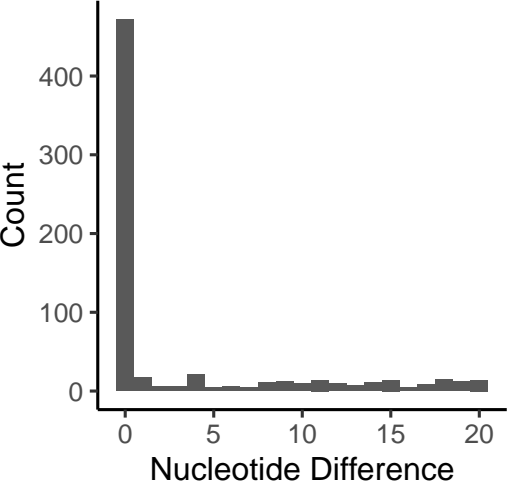
IGHV3-49*03_05

416 sequences assigned
241 (57.9%) exact matches, in which:
240 unique CDR3
6 unique J



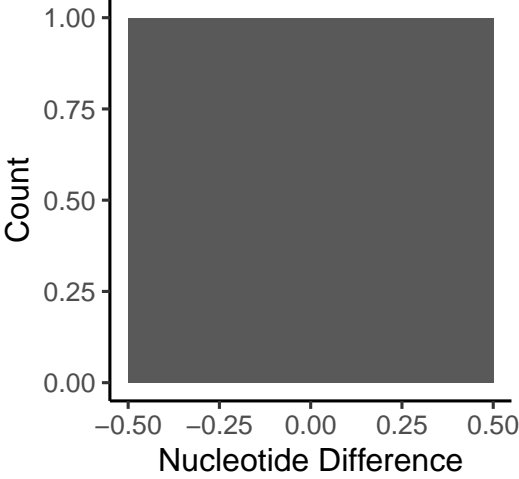
IGHV3-33*01

795 sequences assigned
472 (59.4%) exact matches, in which:
463 unique CDR3
6 unique J



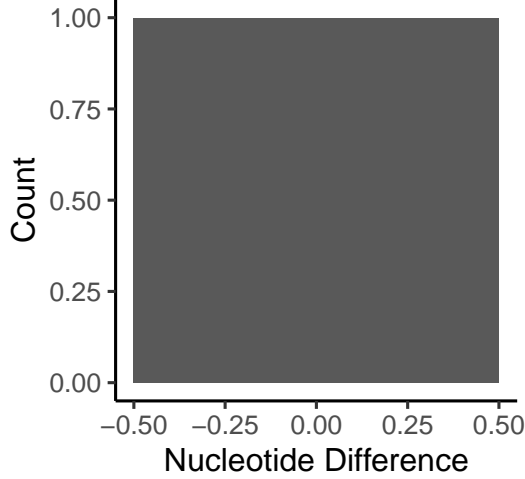
IGHV3-47*02

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



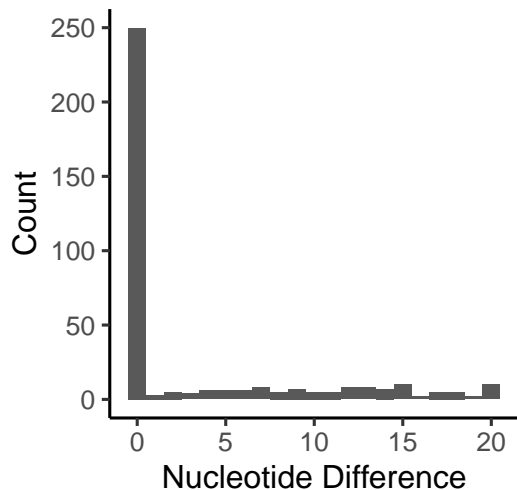
IGHV3-52*02

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



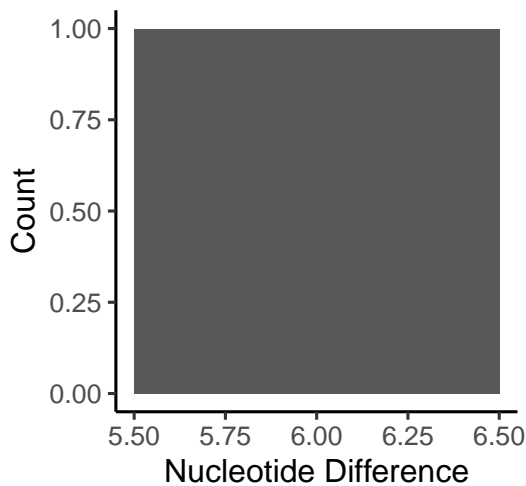
IGHV3-53*01_02

458 sequences assigned
250 (54.6%) exact matches, in which:
245 unique CDR3
6 unique J



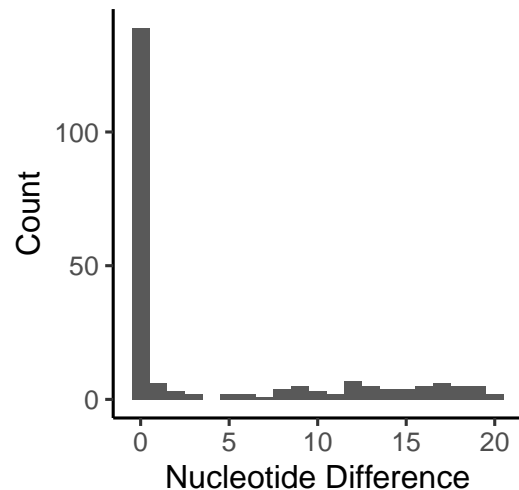
IGHV3-69-1*01

2 sequences assigned
No exact matches.



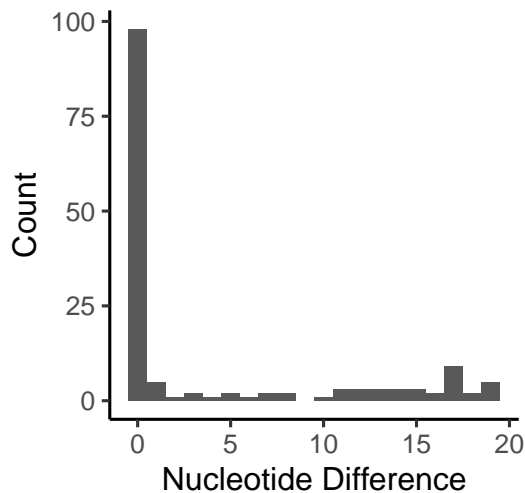
IGHV3-73*01_02

257 sequences assigned
139 (54.1%) exact matches, in which:
139 unique CDR3
6 unique J



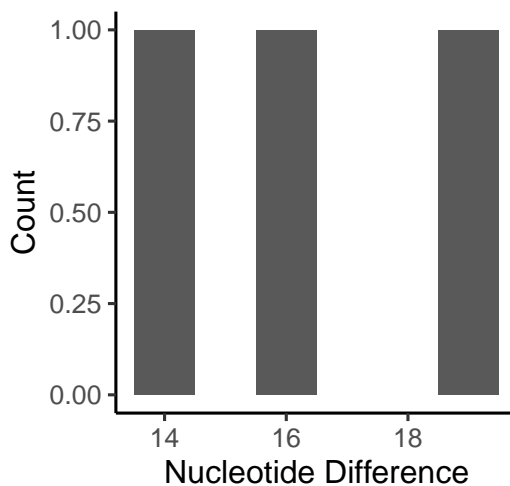
IGHV3-64*01

181 sequences assigned
98 (54.1%) exact matches, in which:
96 unique CDR3
5 unique J



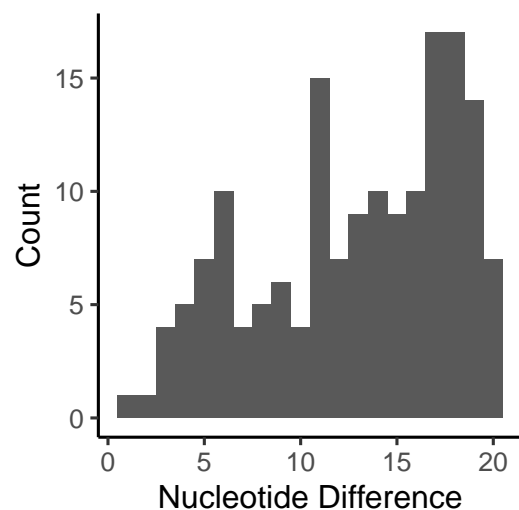
IGHV3-69-1*02

4 sequences assigned
No exact matches.



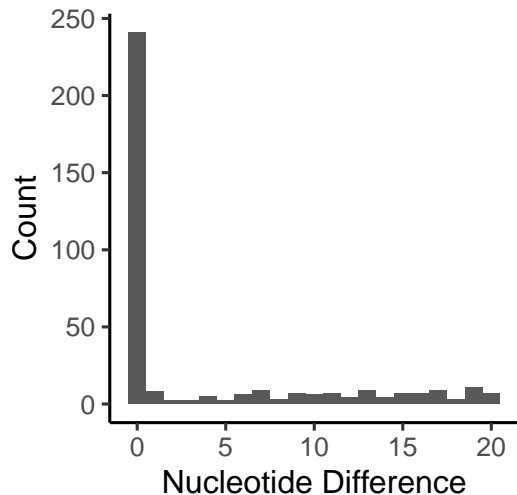
IGHV3-74*03

254 sequences assigned
No exact matches.



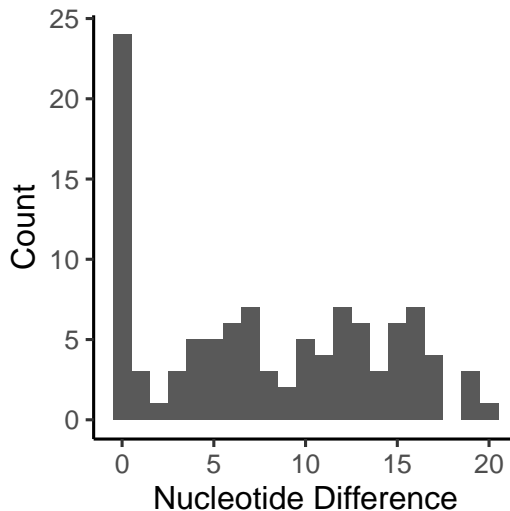
IGHV3-66*01

419 sequences assigned
241 (57.5%) exact matches, in which:
238 unique CDR3
6 unique J



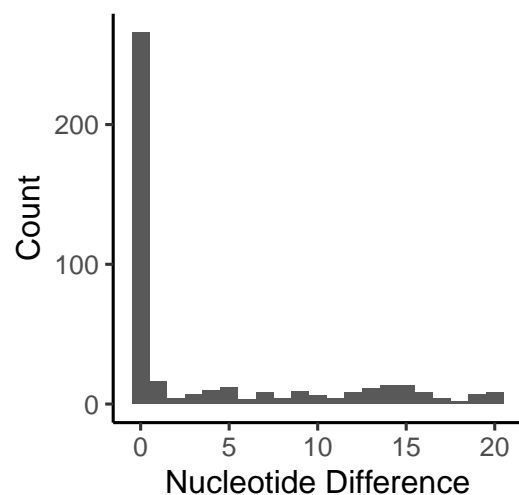
IGHV3-72*01

125 sequences assigned
24 (19.2%) exact matches, in which:
24 unique CDR3
3 unique J



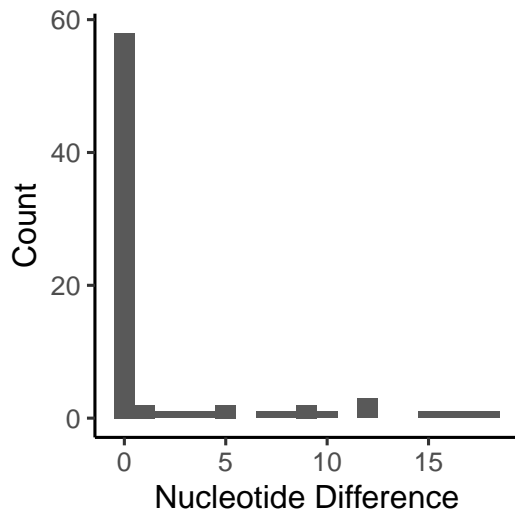
IGHV3-74*01_02

502 sequences assigned
266 (53%) exact matches, in which:
261 unique CDR3
6 unique J



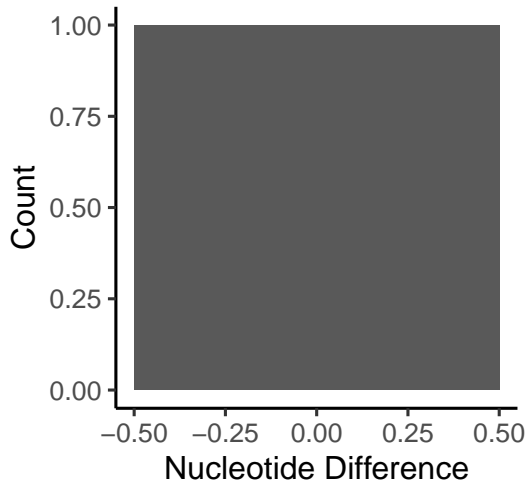
IGHV3-43D*03

84 sequences assigned
58 (69%) exact matches, in which:
57 unique CDR3
4 unique J



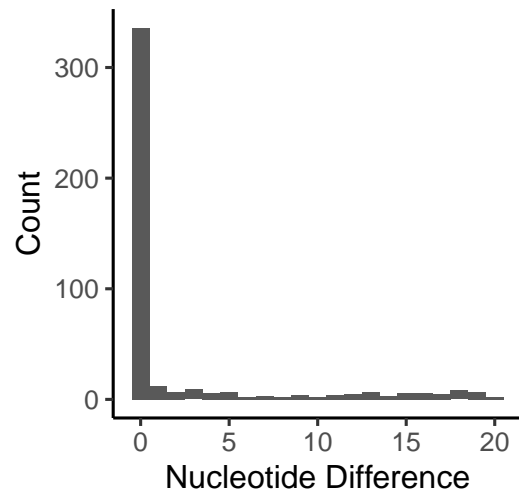
IGHV4-28*03

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



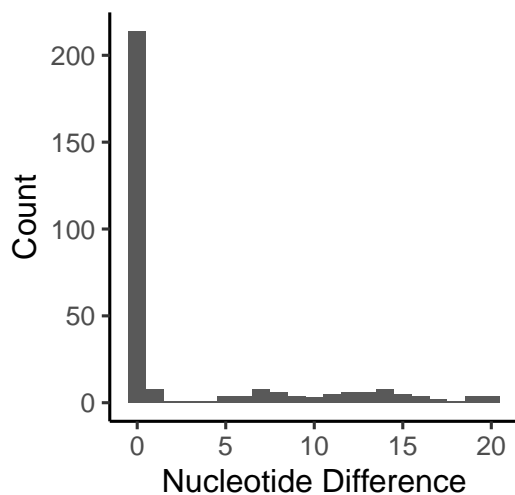
IGHV4-31*02

535 sequences assigned
336 (62.8%) exact matches, in which:
336 unique CDR3
6 unique J



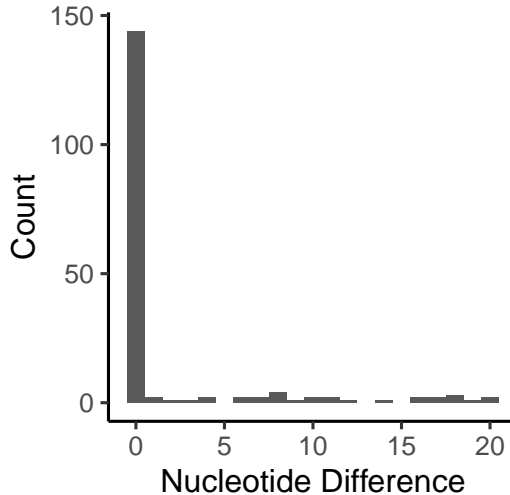
IGHV3-64D*06

384 sequences assigned
214 (55.7%) exact matches, in which:
212 unique CDR3
5 unique J



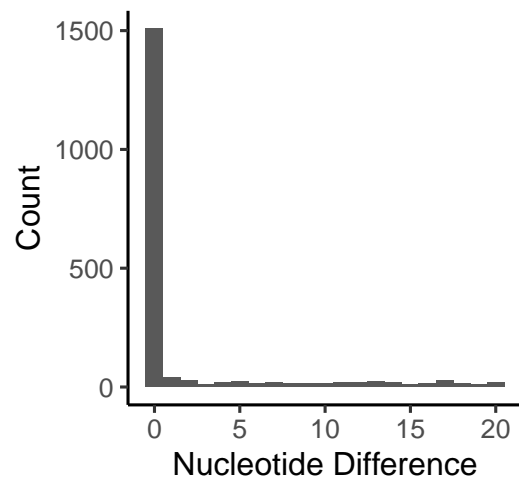
IGHV4-30-2*01

194 sequences assigned
144 (74.2%) exact matches, in which:
142 unique CDR3
6 unique J



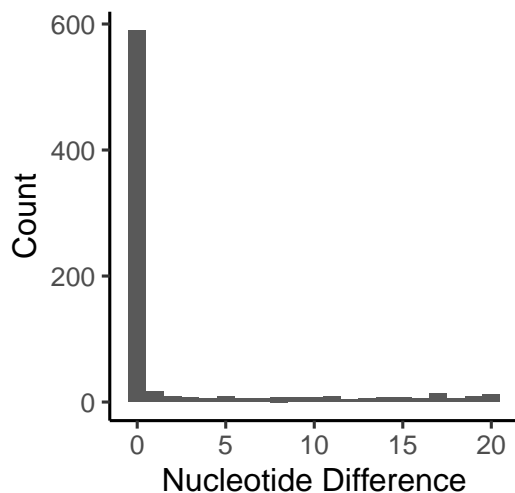
IGHV4-34*01_02

2156 sequences assigned
1508 (69.9%) exact matches, in which:
1485 unique CDR3
6 unique J



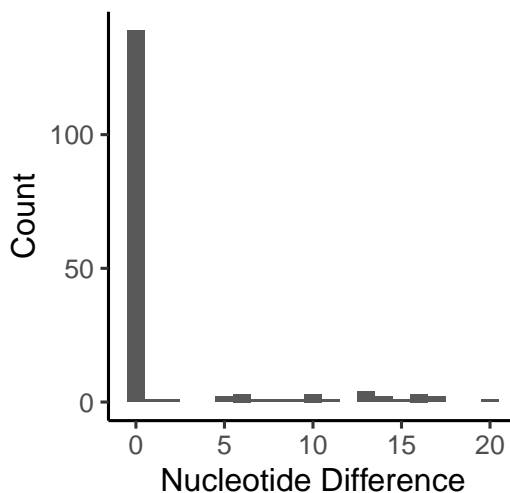
IGHV4-4*02_03

840 sequences assigned
590 (70.2%) exact matches, in which:
585 unique CDR3
6 unique J



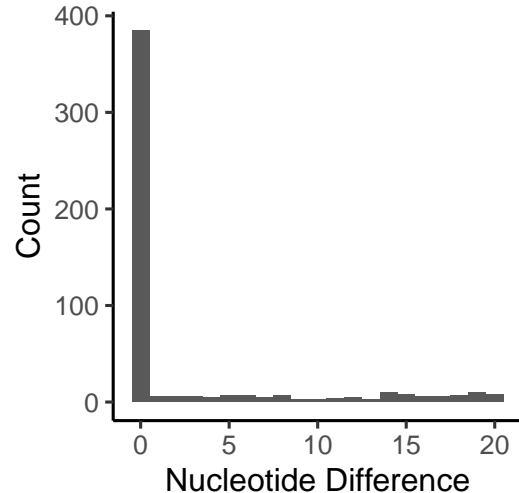
IGHV4-30-4*07

202 sequences assigned
139 (68.8%) exact matches, in which:
138 unique CDR3
6 unique J



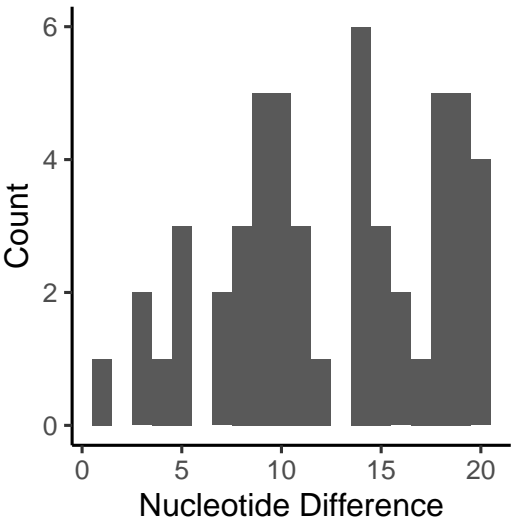
IGHV4-38-2*02

575 sequences assigned
385 (67%) exact matches, in which:
380 unique CDR3
6 unique J



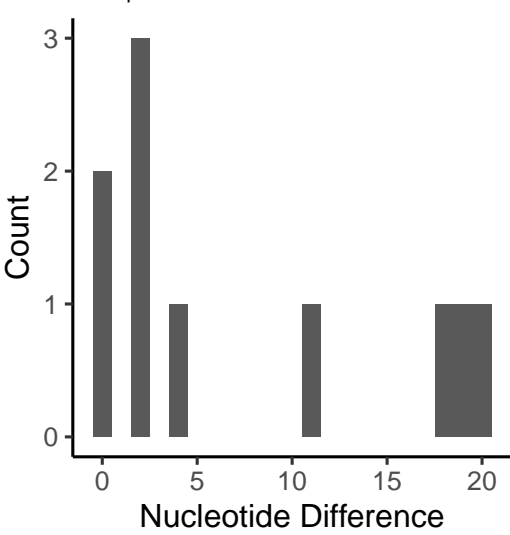
IGHV4-39*02

105 sequences assigned
No exact matches.



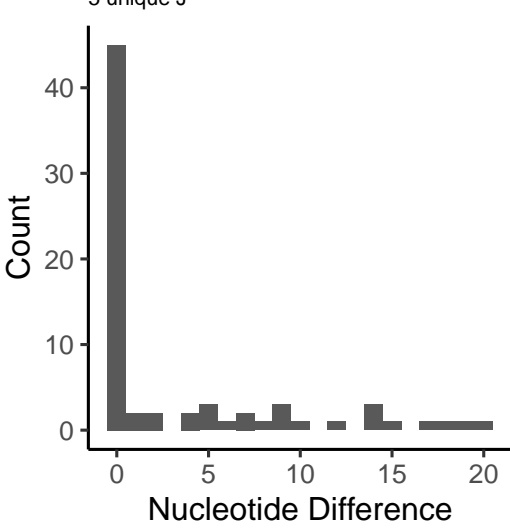
IGHV4-61*02

12 sequences assigned
2 (16.7%) exact matches, in which:
2 unique CDR3
2 unique J



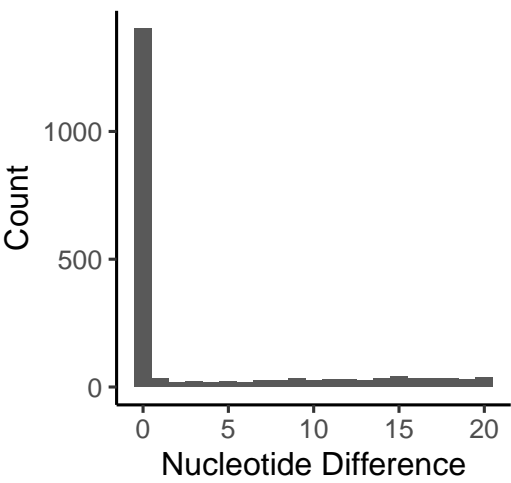
IGHV5-10-1*01_03

85 sequences assigned
45 (52.9%) exact matches, in which:
45 unique CDR3
5 unique J



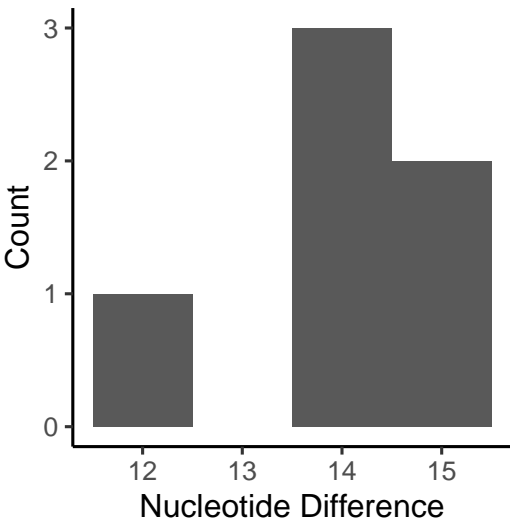
IGHV4-59*08

2412 sequences assigned
1402 (58.1%) exact matches, in which:
1389 unique CDR3
6 unique J



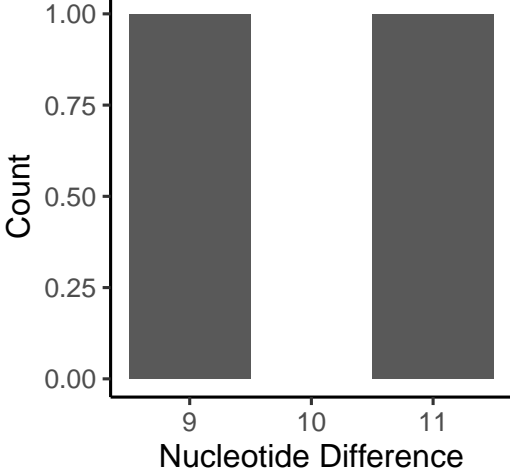
IGHV4-61*08

11 sequences assigned
No exact matches.



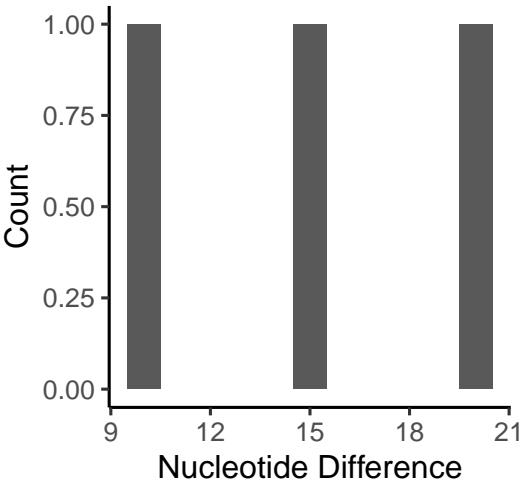
IGHV5-51*06

2 sequences assigned
No exact matches.



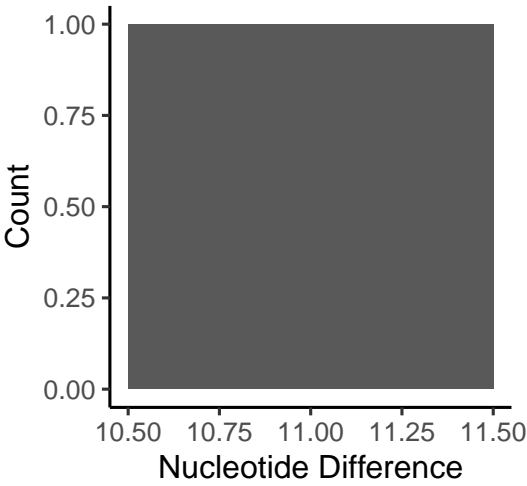
IGHV4-61*01

5 sequences assigned
No exact matches.



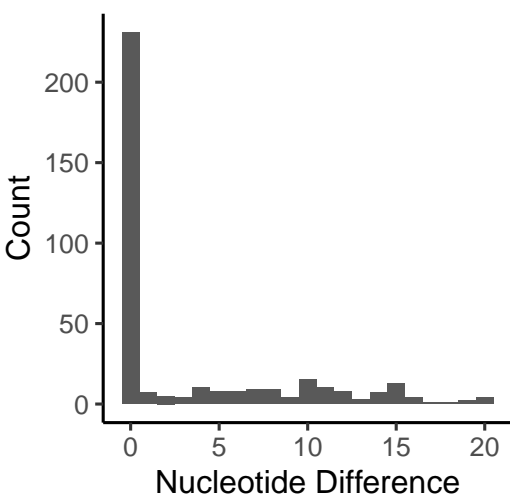
IGHV4/OR15-8*01

7 sequences assigned
No exact matches.



IGHV6-1*01_02

407 sequences assigned
231 (56.8%) exact matches, in which:
230 unique CDR3
6 unique J



IGHV7-4-1*02

391 sequences assigned
207 (52.9%) exact matches, in which:
206 unique CDR3
6 unique J

