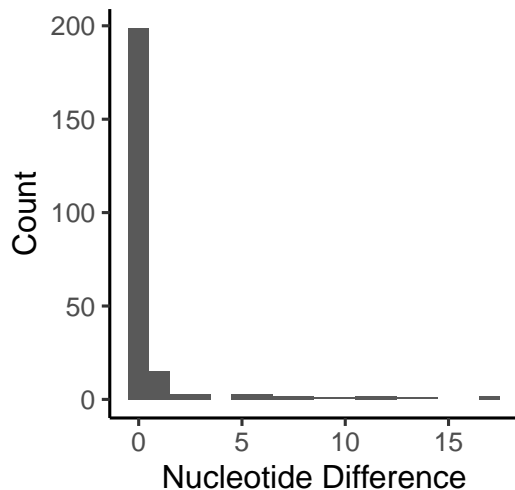


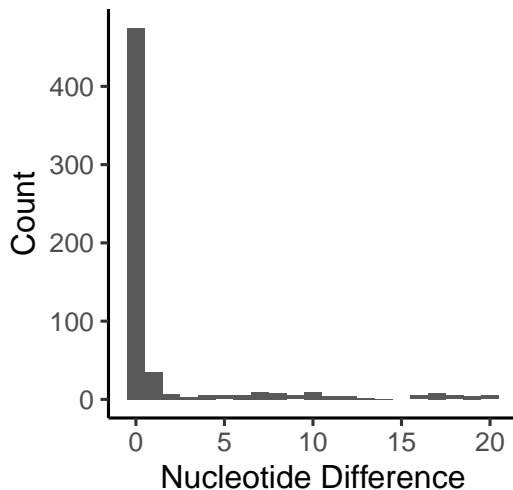
IGHV1-2*04

248 sequences assigned
199 (80.2%) exact matches, in which:
196 unique CDR3
6 unique J



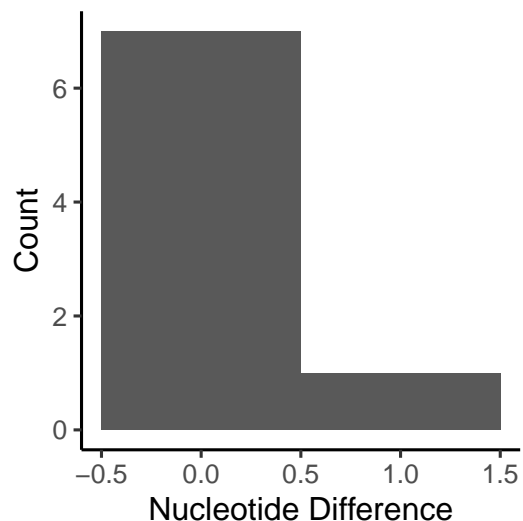
IGHV1-8*01

630 sequences assigned
475 (75.4%) exact matches, in which:
473 unique CDR3
6 unique J



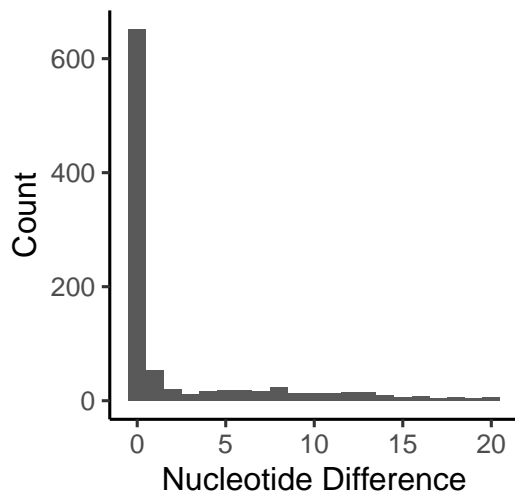
IGHV1-45*02

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



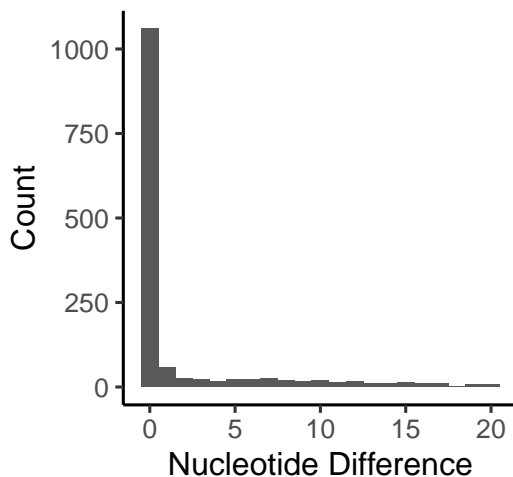
IGHV1-2*06

981 sequences assigned
652 (66.5%) exact matches, in which:
650 unique CDR3
6 unique J



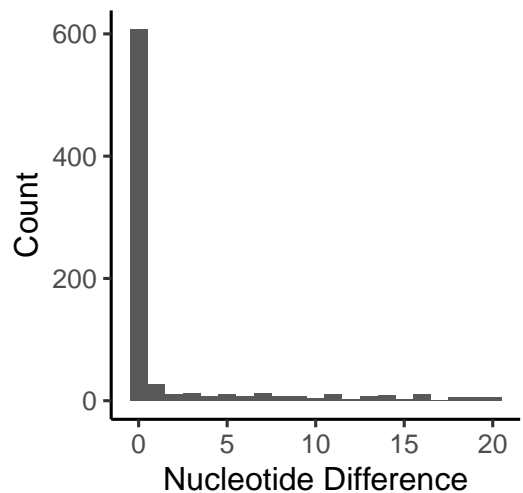
IGHV1-18*01

1459 sequences assigned
1060 (72.7%) exact matches, in which:
1050 unique CDR3
6 unique J



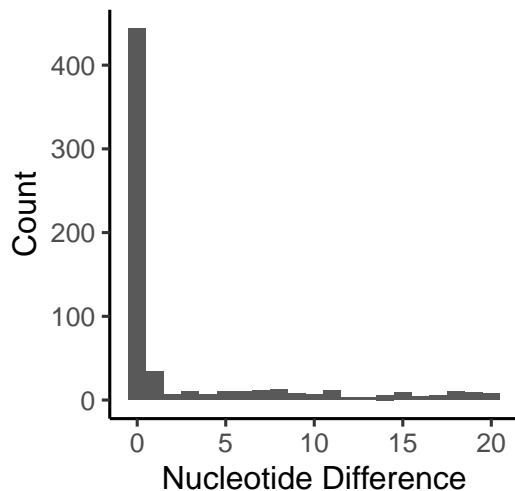
IGHV1-46*01

796 sequences assigned
608 (76.4%) exact matches, in which:
607 unique CDR3
6 unique J



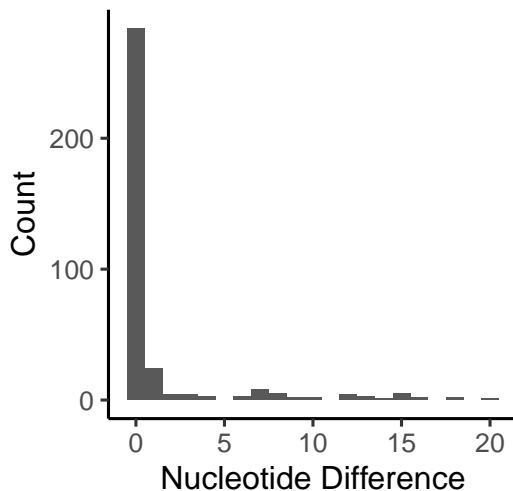
IGHV1-3*01_05

667 sequences assigned
444 (66.6%) exact matches, in which:
442 unique CDR3
6 unique J



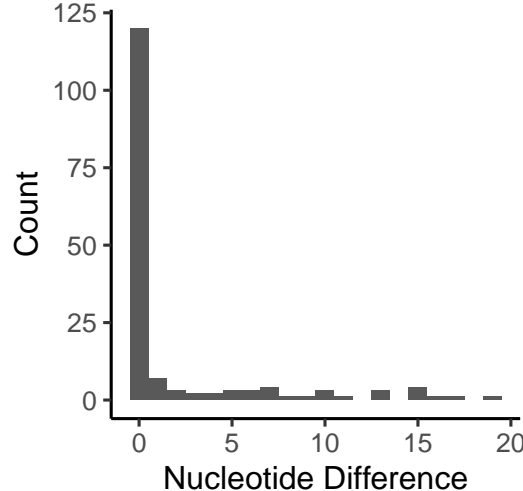
IGHV1-24*01

364 sequences assigned
284 (78%) exact matches, in which:
282 unique CDR3
6 unique J



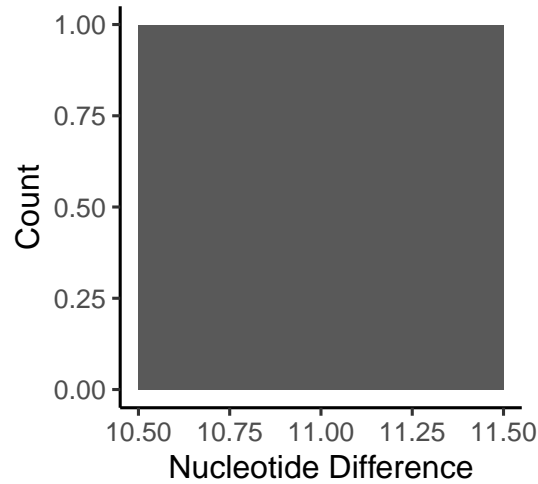
IGHV1-58*01_03

164 sequences assigned
120 (73.2%) exact matches, in which:
119 unique CDR3
6 unique J



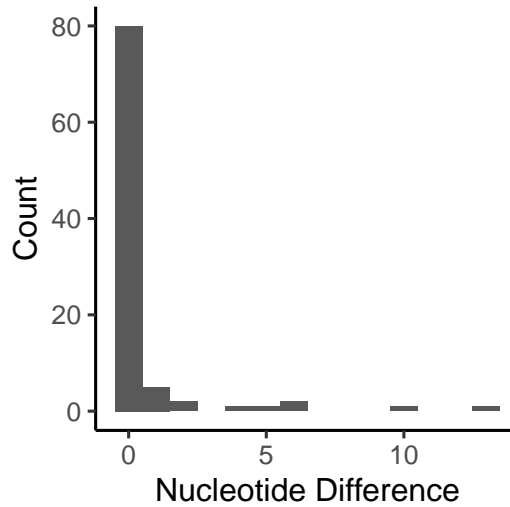
IGHV1-68*01

1 sequences assigned
No exact matches.



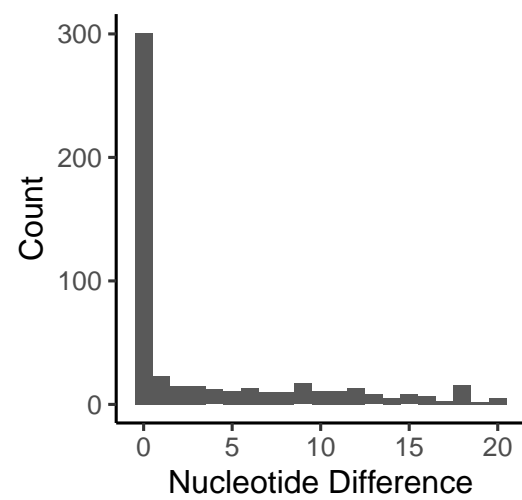
IGHV2-26*01

96 sequences assigned
80 (83.3%) exact matches, in which:
80 unique CDR3
5 unique J



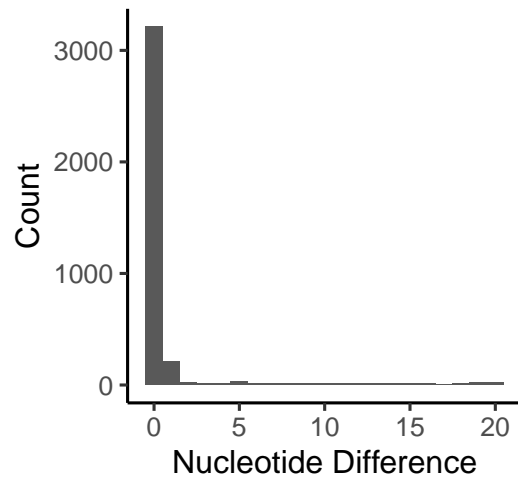
IGHV3-7*03

545 sequences assigned
301 (55.2%) exact matches, in which:
291 unique CDR3
6 unique J



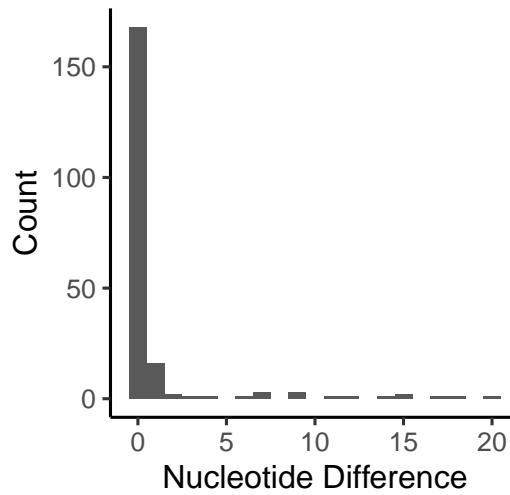
IGHV1-69*01_12_13

3768 sequences assigned
3212 (85.2%) exact matches, in which:
3201 unique CDR3
6 unique J



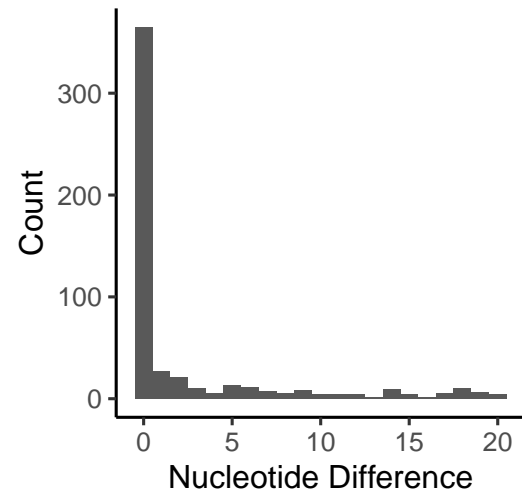
IGHV2-70*01

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



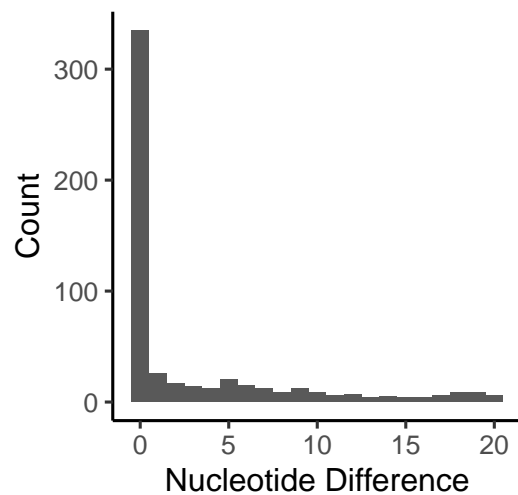
IGHV3-9*01

534 sequences assigned
365 (68.4%) exact matches, in which:
360 unique CDR3
6 unique J



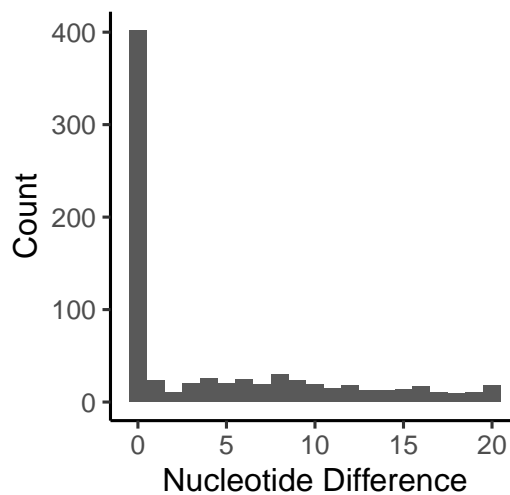
IGHV2-5*02

607 sequences assigned
335 (55.2%) exact matches, in which:
334 unique CDR3
6 unique J



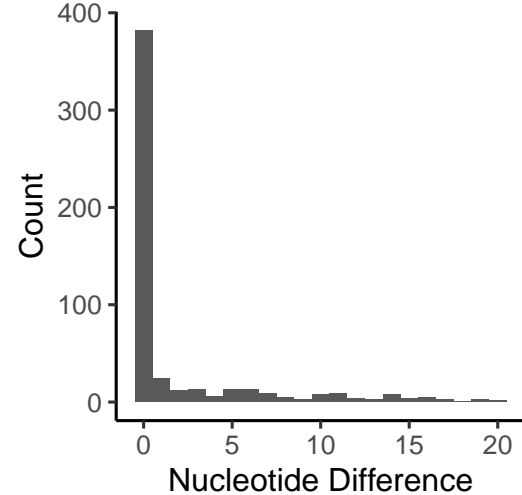
IGHV3-7*01

788 sequences assigned
402 (51%) exact matches, in which:
398 unique CDR3
6 unique J



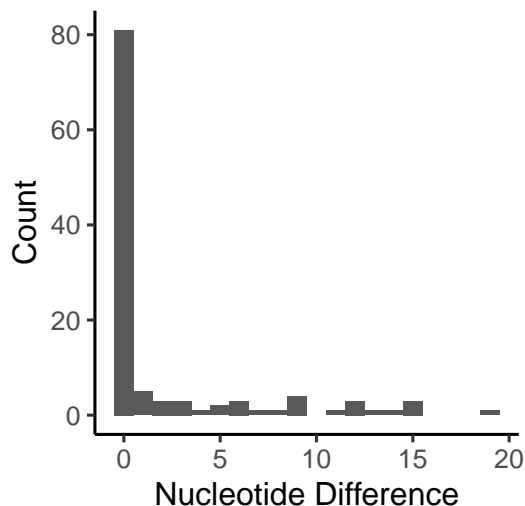
IGHV3-11*01

555 sequences assigned
382 (68.8%) exact matches, in which:
366 unique CDR3
6 unique J



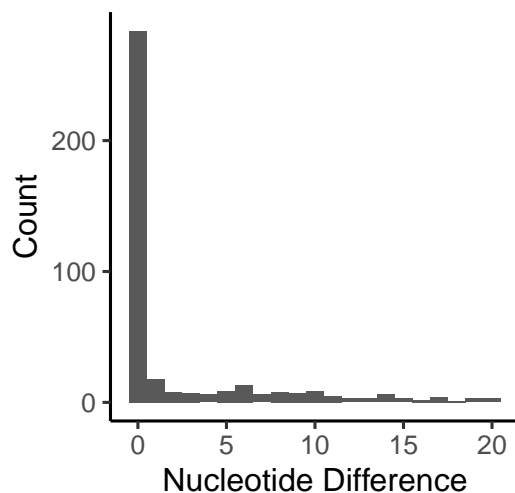
IGHV3-11*06

116 sequences assigned
81 (69.8%) exact matches, in which:
78 unique CDR3
5 unique J



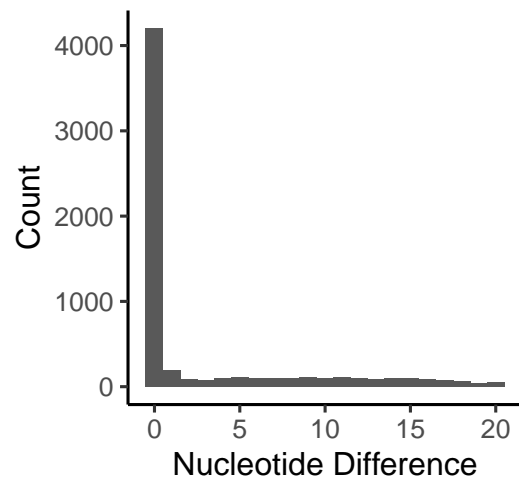
IGHV3-15*01_02

420 sequences assigned
284 (67.6%) exact matches, in which:
282 unique CDR3
6 unique J



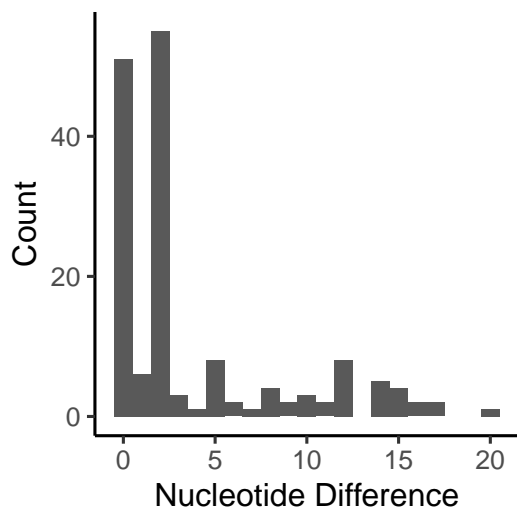
IGHV3-23*01_04

6370 sequences assigned
4201 (65.9%) exact matches, in which:
4105 unique CDR3
6 unique J



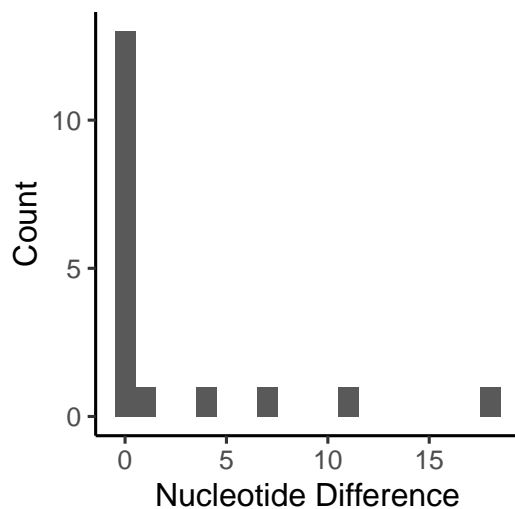
IGHV3-13*01

166 sequences assigned
51 (30.7%) exact matches, in which:
50 unique CDR3
6 unique J



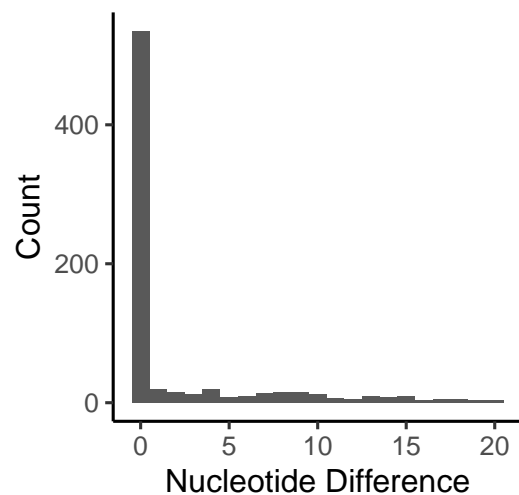
IGHV3-20*03_04

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



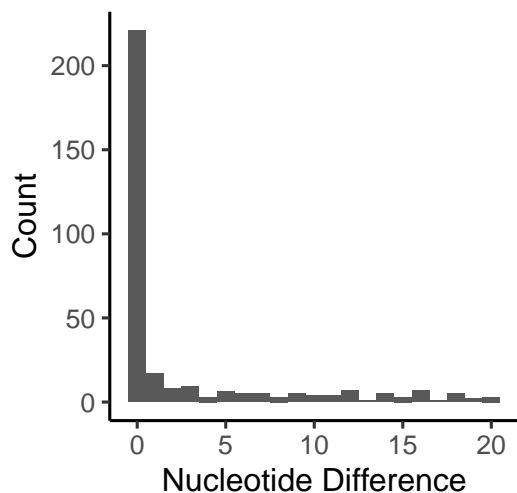
IGHV3-33*01

777 sequences assigned
535 (68.9%) exact matches, in which:
528 unique CDR3
6 unique J



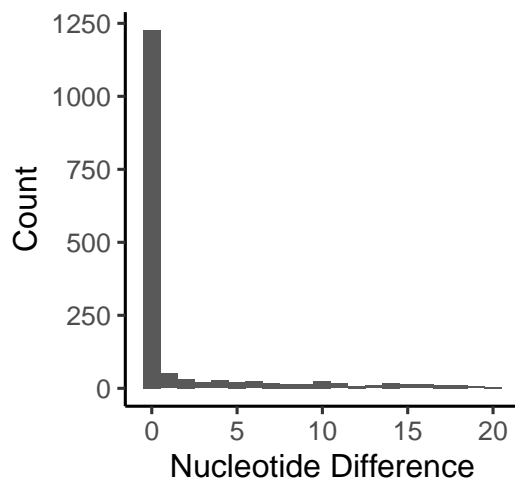
IGHV3-15*07

342 sequences assigned
221 (64.6%) exact matches, in which:
220 unique CDR3
4 unique J



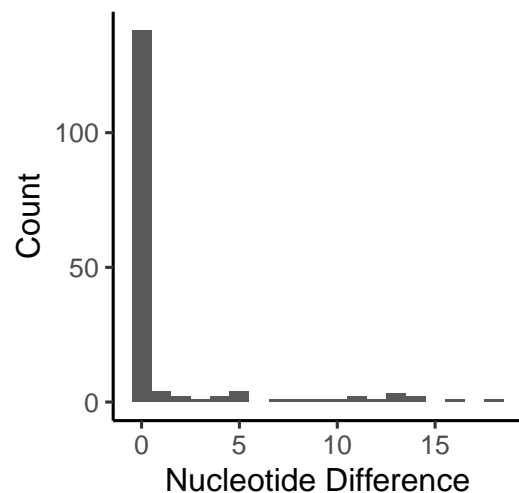
IGHV3-21*01_02

1624 sequences assigned
1227 (75.6%) exact matches, in which:
1205 unique CDR3
6 unique J



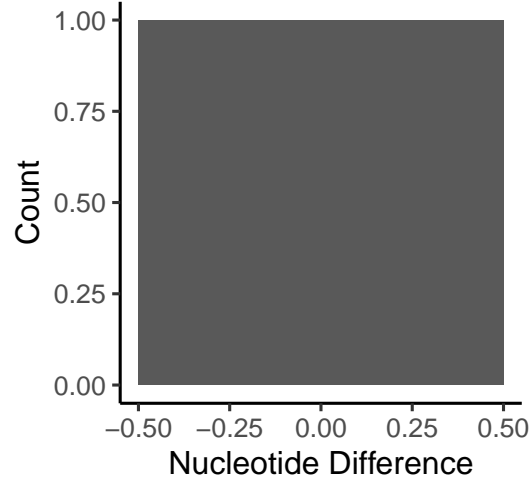
IGHV3-43*01

169 sequences assigned
138 (81.7%) exact matches, in which:
135 unique CDR3
6 unique J



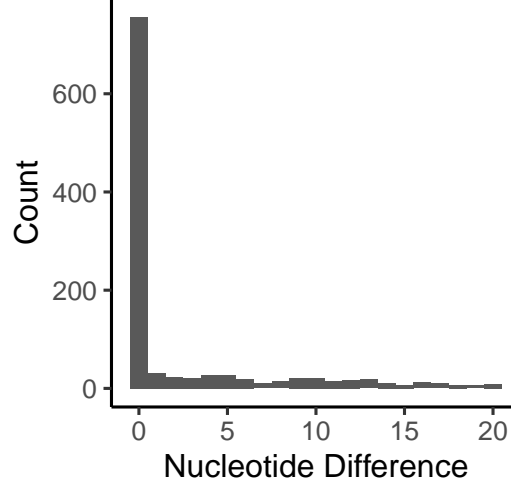
IGHV3-47*02

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



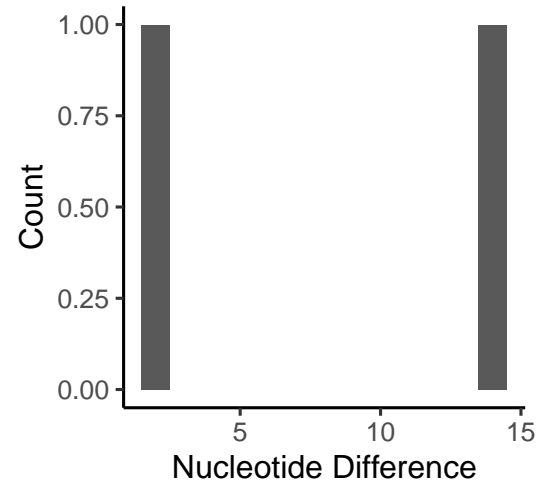
IGHV3-53*01_02

1153 sequences assigned
757 (65.7%) exact matches, in which:
743 unique CDR3
6 unique J



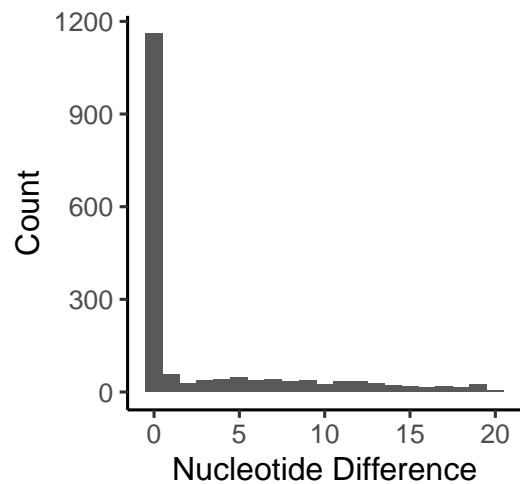
IGHV3-66*04

2 sequences assigned
No exact matches.



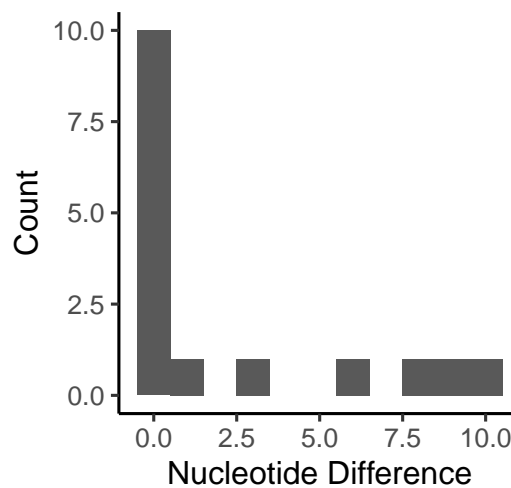
IGHV3-48*02

1826 sequences assigned
1160 (63.5%) exact matches, in which:
1142 unique CDR3
6 unique J



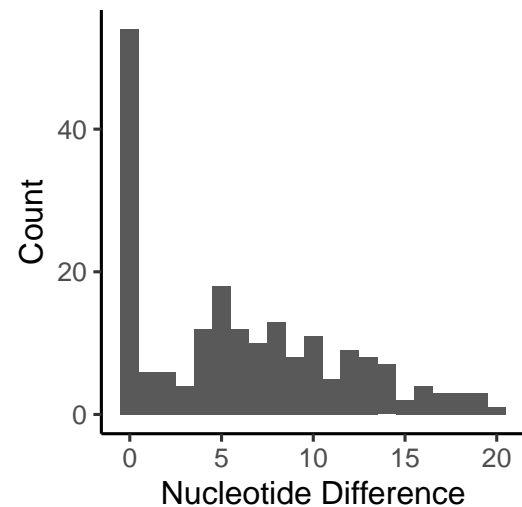
IGHV3-64*02_07

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



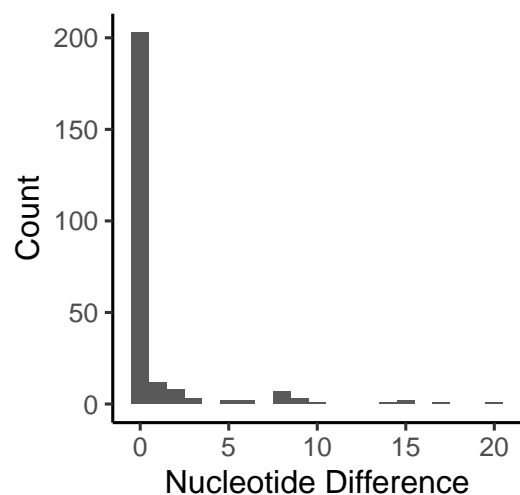
IGHV3-72*01

216 sequences assigned
54 (25%) exact matches, in which:
53 unique CDR3
5 unique J



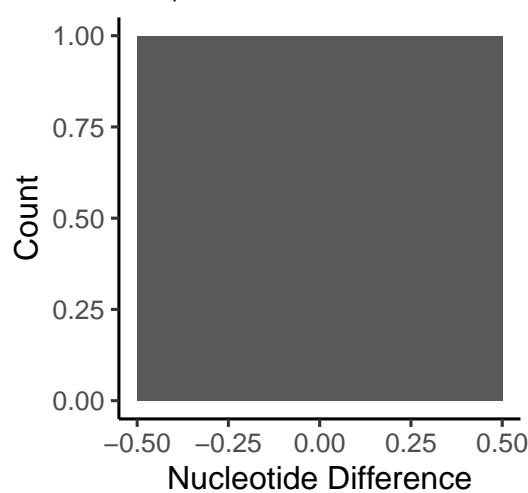
IGHV3-49*03_05

255 sequences assigned
203 (79.6%) exact matches, in which:
202 unique CDR3
6 unique J



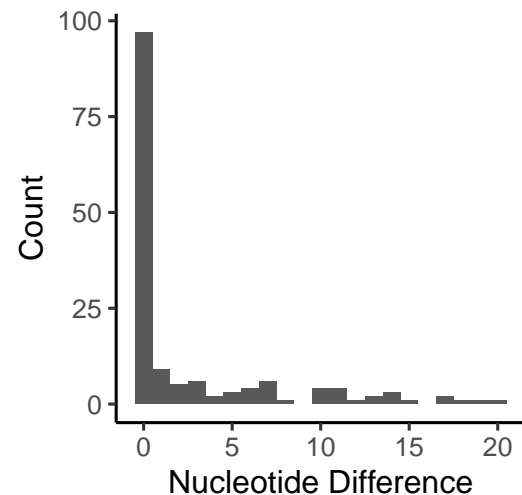
IGHV3-66*03

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



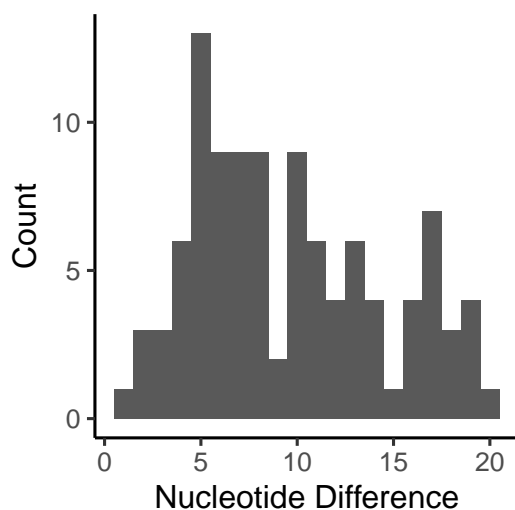
IGHV3-73*01_02

159 sequences assigned
97 (61%) exact matches, in which:
95 unique CDR3
6 unique J



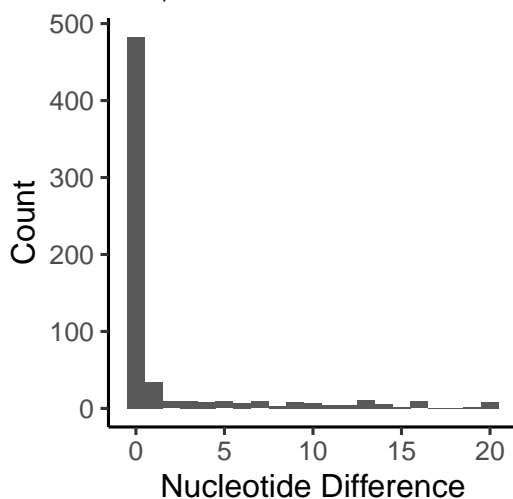
IGHV3-74*03

128 sequences assigned
No exact matches.



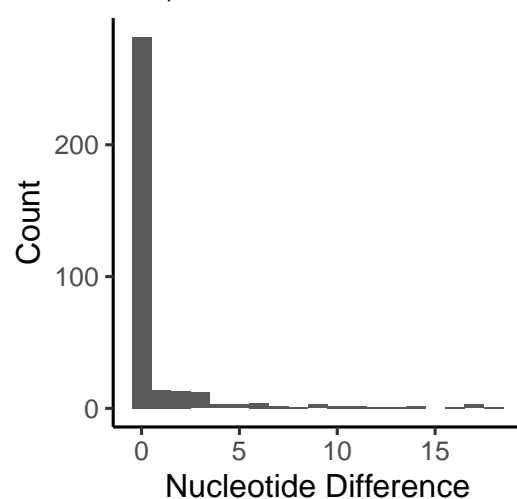
IGHV4-4*02_03

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



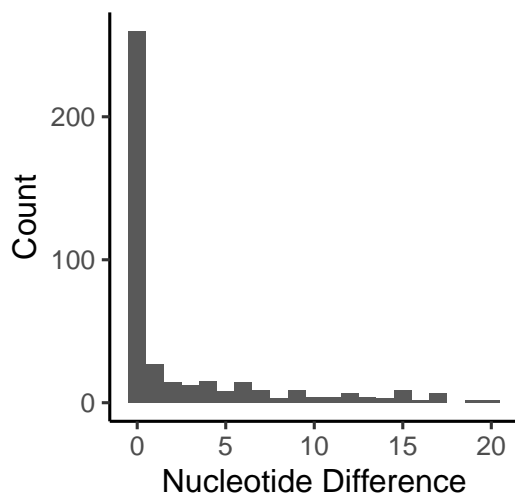
IGHV4-30-2*01

355 sequences assigned
282 (79.4%) exact matches, in which:
277 unique CDR3
6 unique J



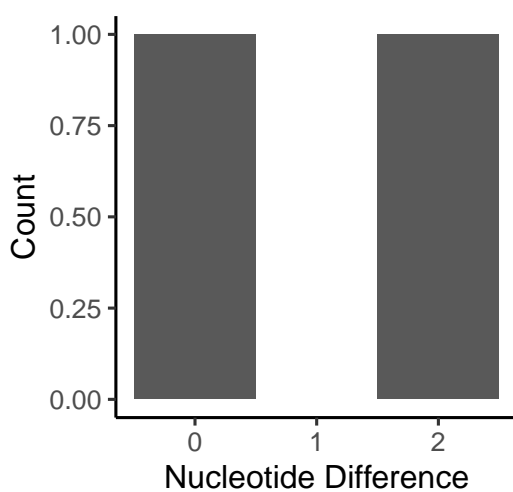
IGHV3-74*01_02

428 sequences assigned
260 (60.7%) exact matches, in which:
255 unique CDR3
6 unique J



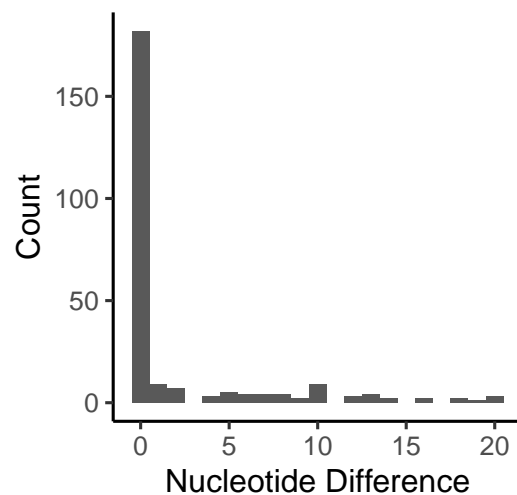
IGHV4-28*03

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



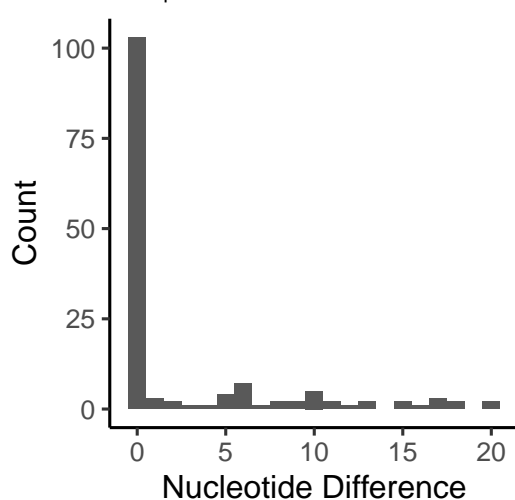
IGHV4-30-4*07

262 sequences assigned
182 (69.5%) exact matches, in which:
178 unique CDR3
5 unique J



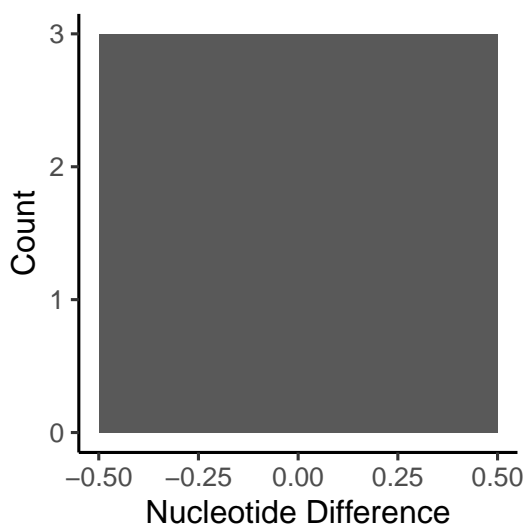
IGHV3-64D*06

153 sequences assigned
103 (67.3%) exact matches, in which:
101 unique CDR3
6 unique J



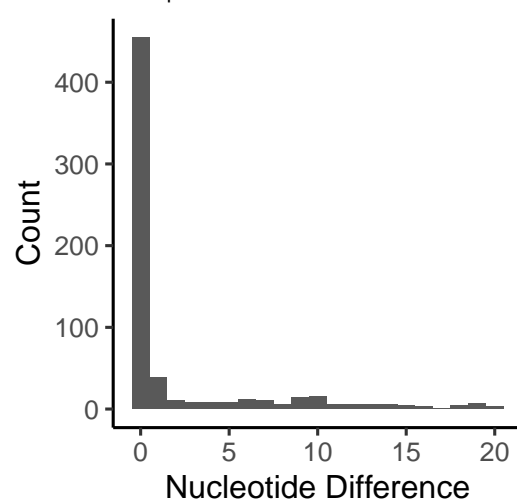
IGHV4-28*01_07

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



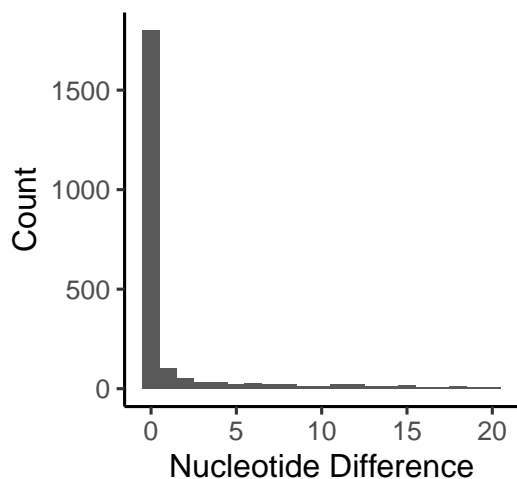
IGHV4-31*02

681 sequences assigned
455 (66.8%) exact matches, in which:
449 unique CDR3
6 unique J



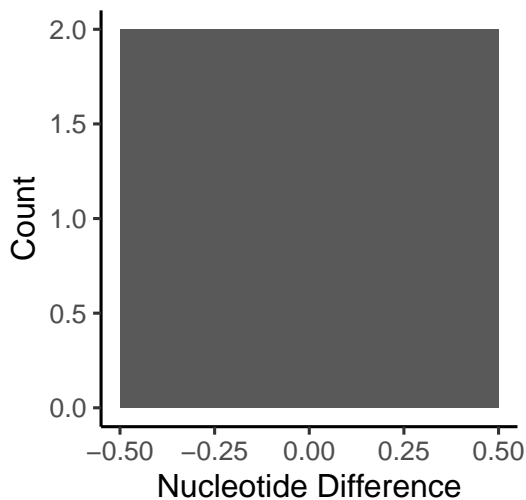
IGHV4-34*01_02

2369 sequences assigned
1800 (76%) exact matches, in which:
1754 unique CDR3
6 unique J



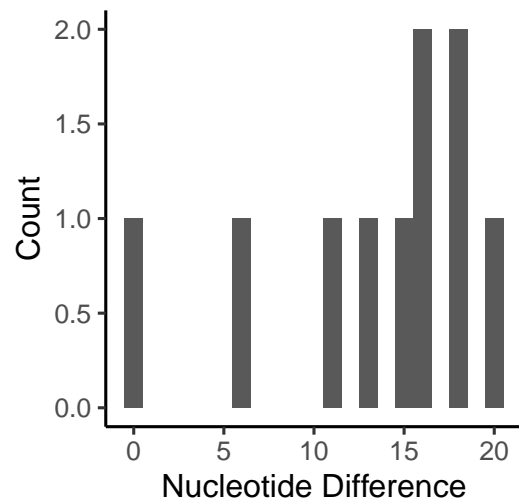
IGHV4-39*07

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



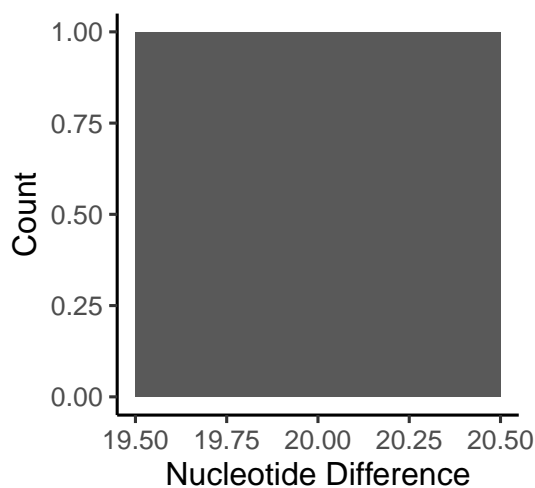
IGHV4-59*12

12 sequences assigned
1 (8.3%) exact matches, in which:
1 unique CDR3
1 unique J



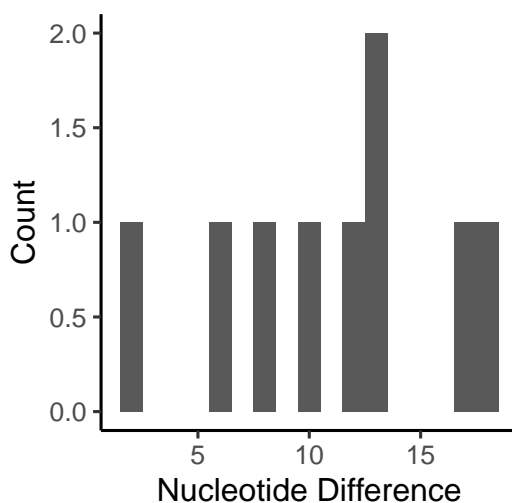
IGHV4-38-2*02

2 sequences assigned
No exact matches.



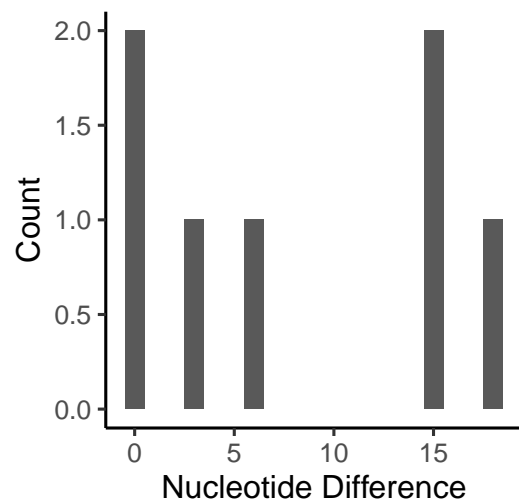
IGHV4-59*02

13 sequences assigned
No exact matches.



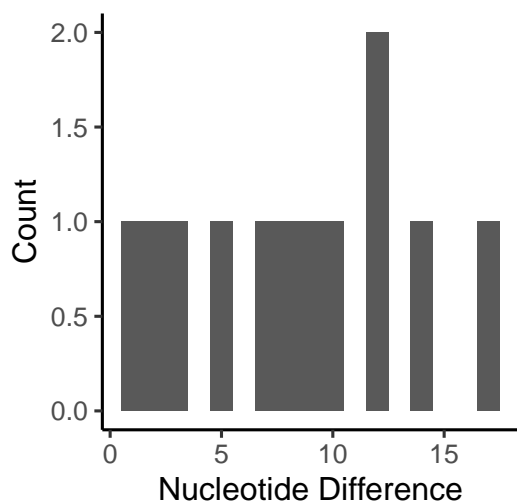
IGHV4-59*13

8 sequences assigned
2 (25%) exact matches, in which:
2 unique CDR3
2 unique J



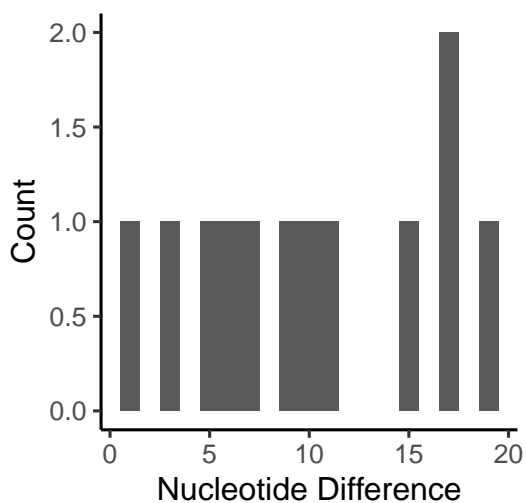
IGHV4-39*02

22 sequences assigned
No exact matches.



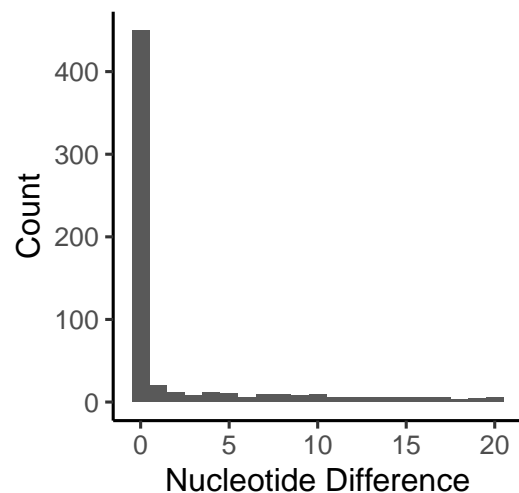
IGHV4-59*11

15 sequences assigned
No exact matches.



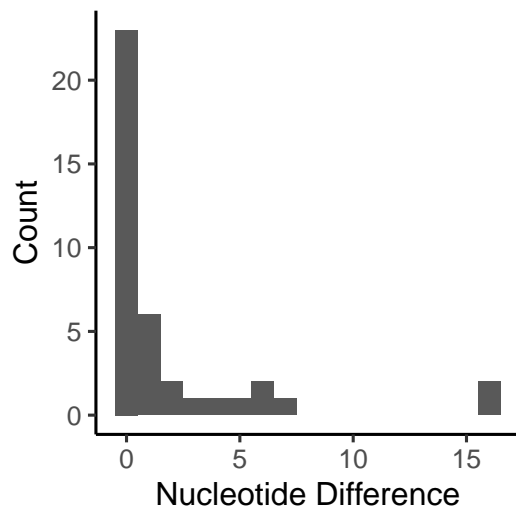
IGHV4-61*01

627 sequences assigned
450 (71.8%) exact matches, in which:
442 unique CDR3
6 unique J



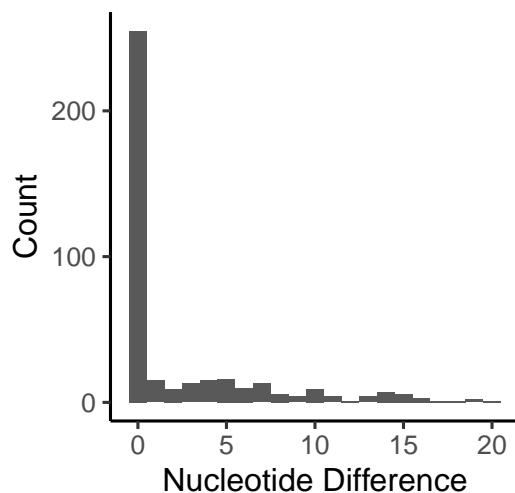
IGHV5-10-1*01_03

41 sequences assigned
23 (56.1%) exact matches, in which:
22 unique CDR3
5 unique J



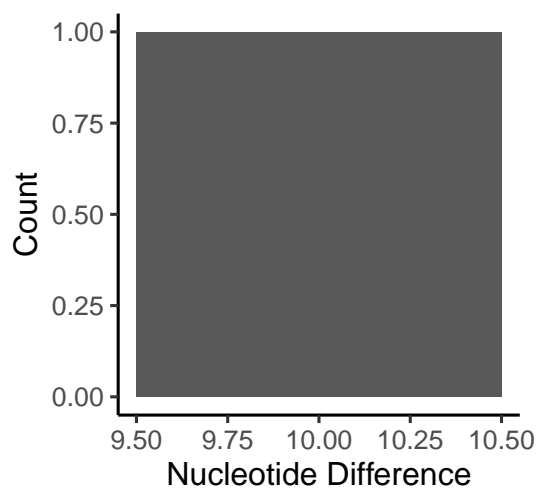
IGHV6-1*01_02

404 sequences assigned
255 (63.1%) exact matches, in which:
254 unique CDR3
6 unique J



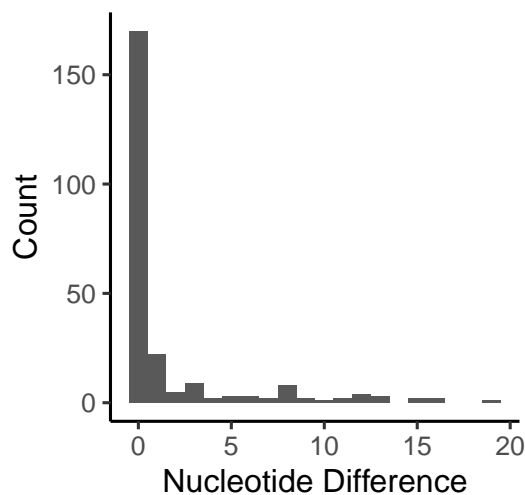
IGHV5-51*04

1 sequences assigned
No exact matches.



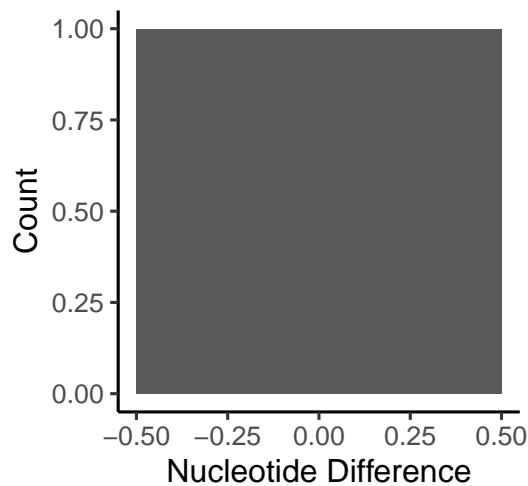
IGHV7-4-1*02

244 sequences assigned
170 (69.7%) exact matches, in which:
169 unique CDR3
6 unique J



IGHV5-51*07

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





Warning – no inferred sequences found.

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