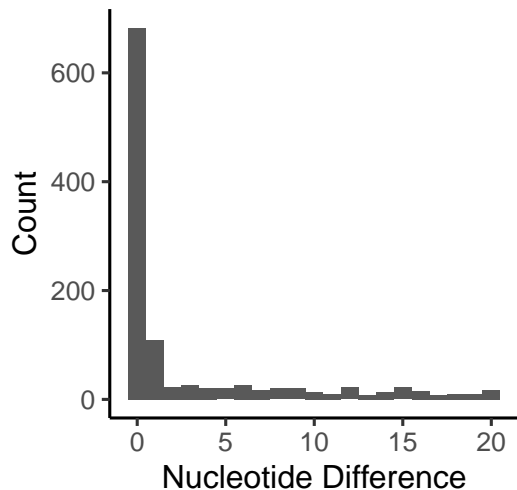


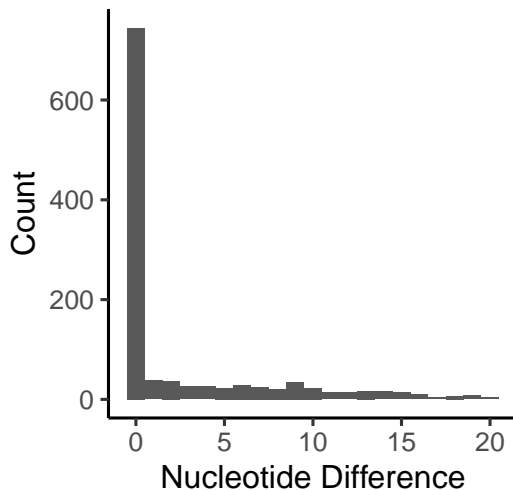
IGHV1-2*02

1199 sequences assigned
683 (57%) exact matches, in which:
683 unique CDR3
6 unique J



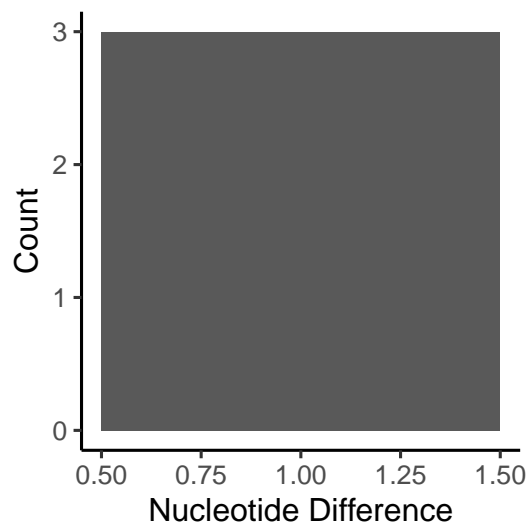
IGHV1-18*01

1181 sequences assigned
745 (63.1%) exact matches, in which:
744 unique CDR3
6 unique J



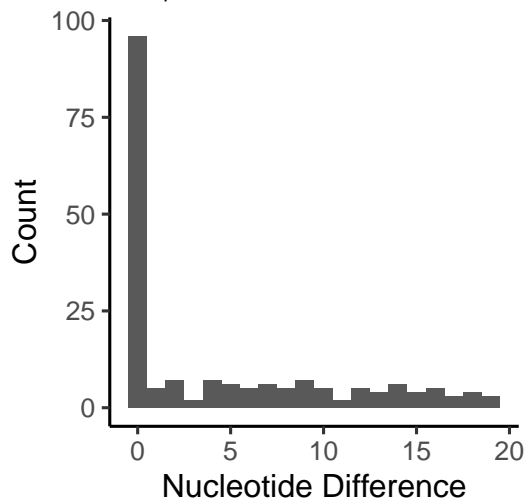
IGHV1-38-4*01

3 sequences assigned
No exact matches.



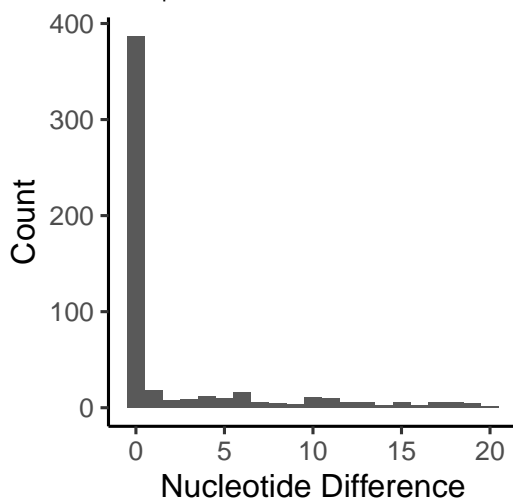
IGHV1-3*01_05

200 sequences assigned
96 (48%) exact matches, in which:
94 unique CDR3
5 unique J



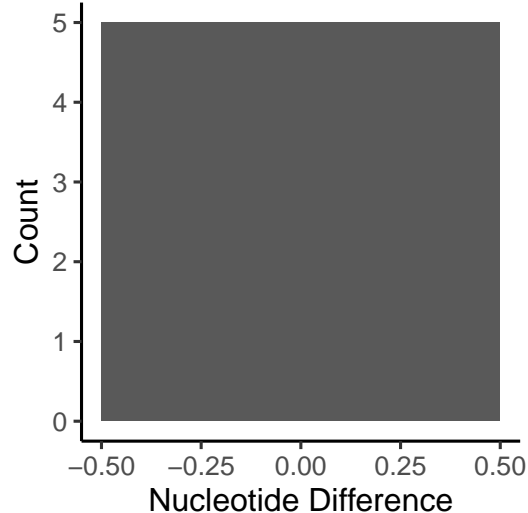
IGHV1-18*04

565 sequences assigned
387 (68.5%) exact matches, in which:
386 unique CDR3
6 unique J



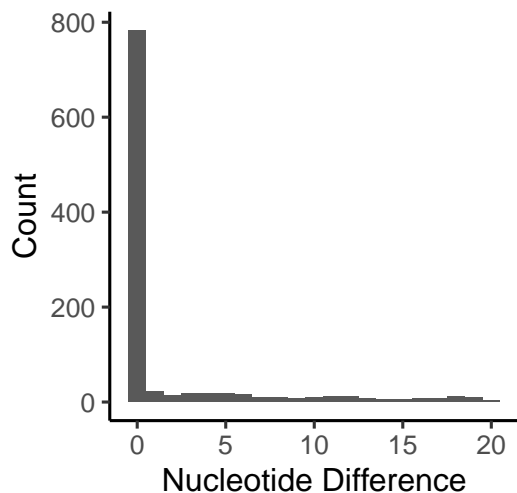
IGHV1-45*02

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



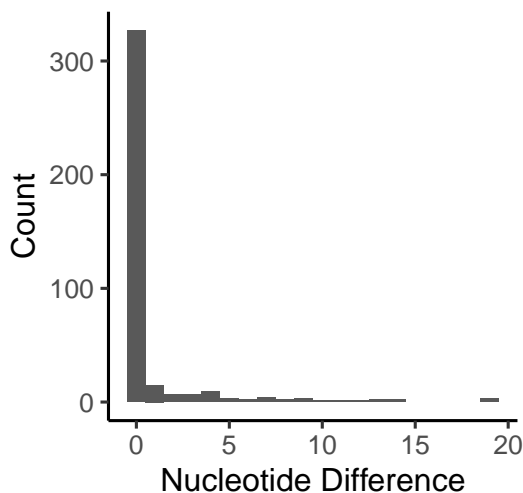
IGHV1-8*01

1037 sequences assigned
783 (75.5%) exact matches, in which:
783 unique CDR3
6 unique J



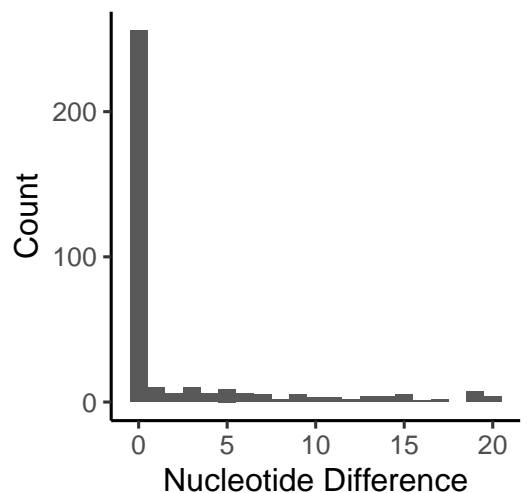
IGHV1-24*01

404 sequences assigned
327 (80.9%) exact matches, in which:
327 unique CDR3
6 unique J



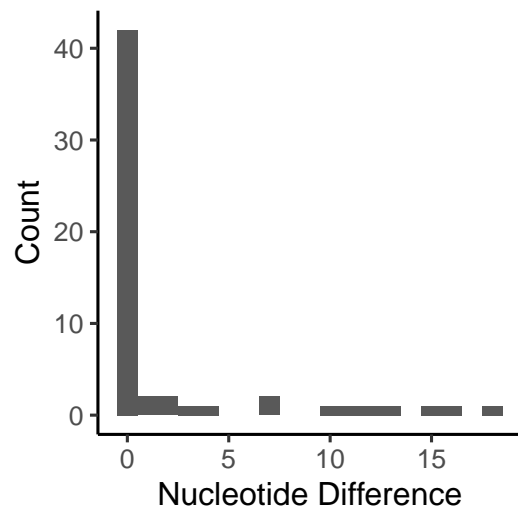
IGHV1-46*03

378 sequences assigned
256 (67.7%) exact matches, in which:
256 unique CDR3
6 unique J



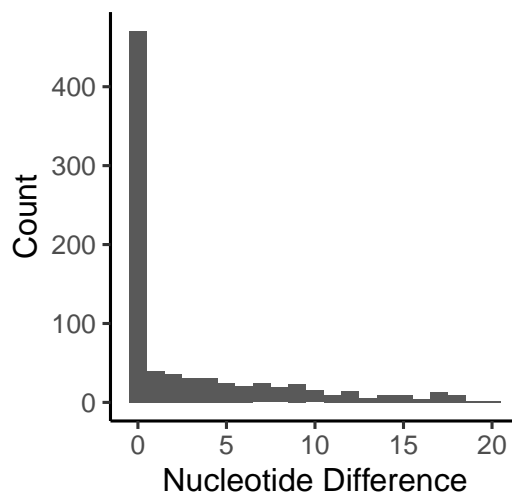
IGHV1-58*02

61 sequences assigned
42 (68.9%) exact matches, in which:
42 unique CDR3
5 unique J



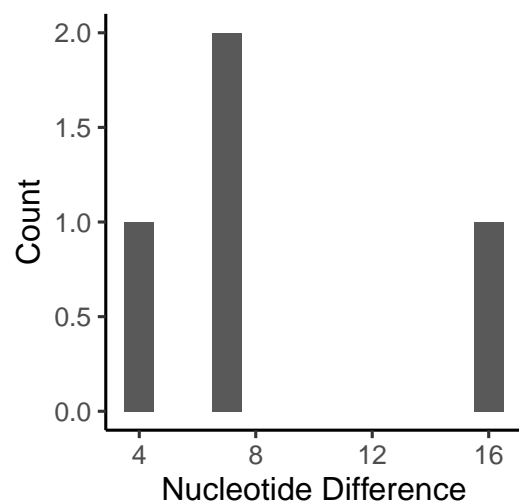
IGHV2-5*01

826 sequences assigned
471 (57%) exact matches, in which:
467 unique CDR3
6 unique J



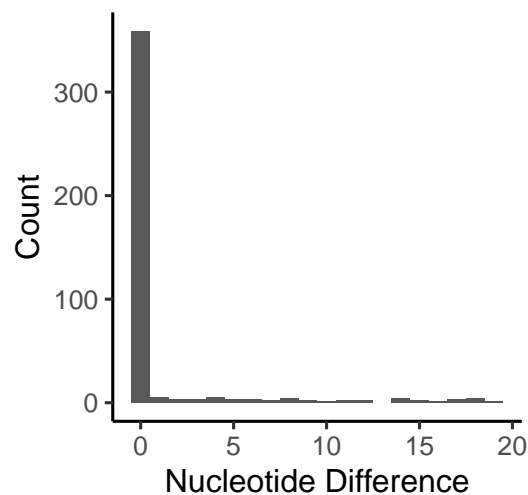
IGHV2-70D*04

5 sequences assigned
No exact matches.



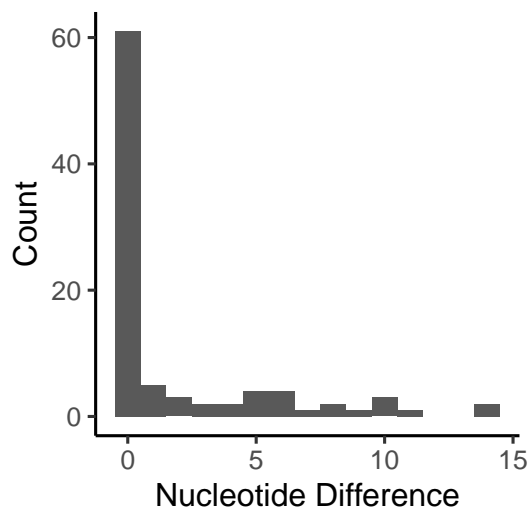
IGHV1-69*05

427 sequences assigned
359 (84.1%) exact matches, in which:
359 unique CDR3
6 unique J



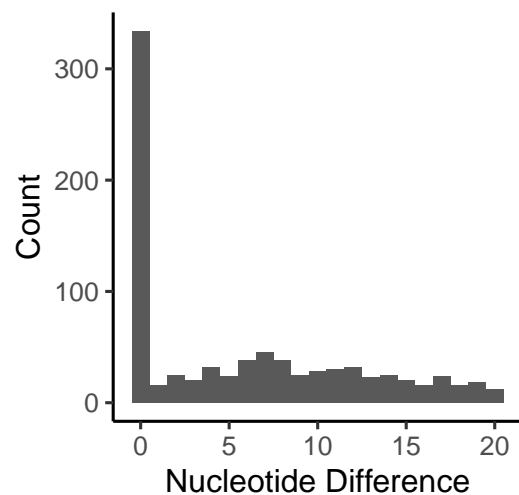
IGHV2-26*01

91 sequences assigned
61 (67%) exact matches, in which:
61 unique CDR3
4 unique J



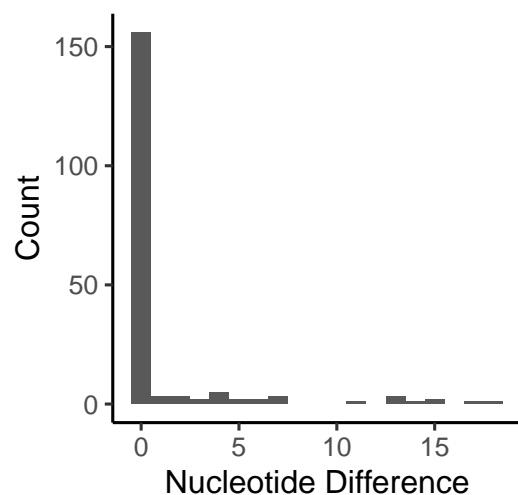
IGHV3-7*01

916 sequences assigned
334 (36.5%) exact matches, in which:
324 unique CDR3
6 unique J



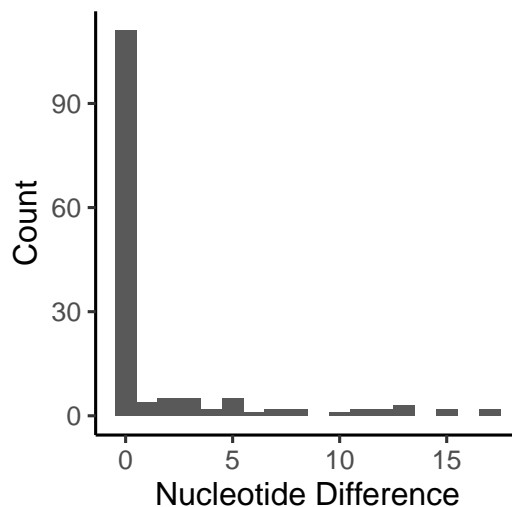
IGHV1-69*04_09_G112A

188 sequences assigned
156 (83%) exact matches, in which:
156 unique CDR3
6 unique J



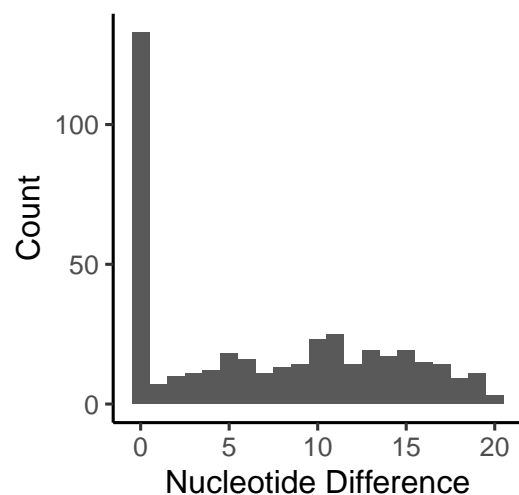
IGHV2-70*11_15

150 sequences assigned
111 (74%) exact matches, in which:
109 unique CDR3
5 unique J



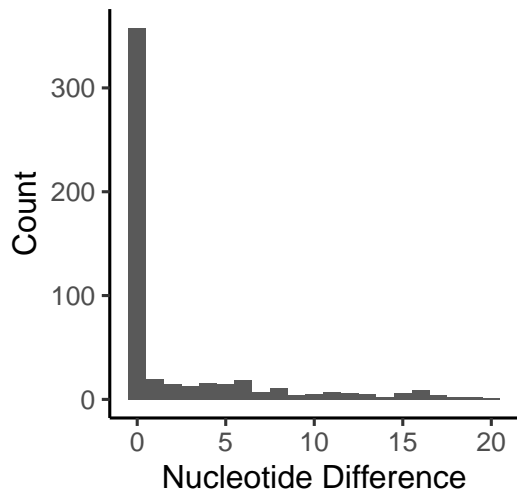
IGHV3-7*05

429 sequences assigned
133 (31%) exact matches, in which:
128 unique CDR3
5 unique J



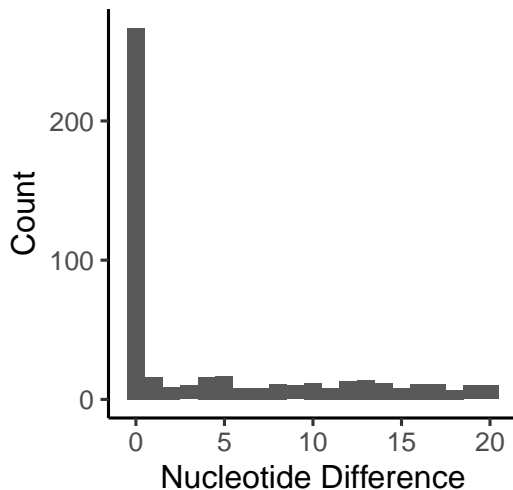
IGHV3-9*01

539 sequences assigned
358 (66.4%) exact matches, in which:
346 unique CDR3
6 unique J



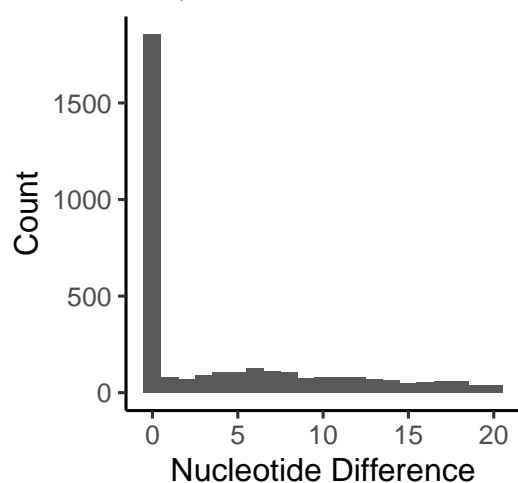
IGHV3-15*01_02

560 sequences assigned
267 (47.7%) exact matches, in which:
265 unique CDR3
6 unique J



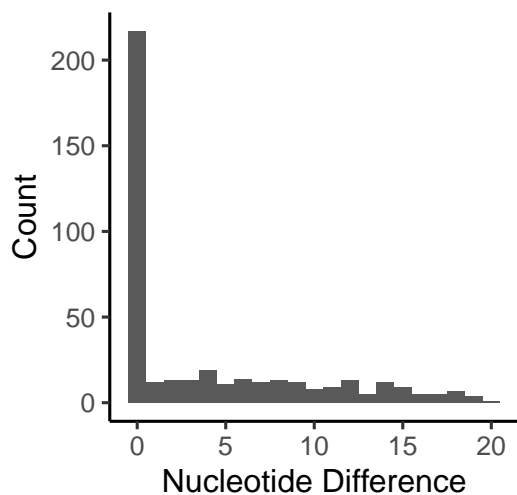
IGHV3-23*01_04

3682 sequences assigned
1855 (50.4%) exact matches, in which:
1779 unique CDR3
6 unique J



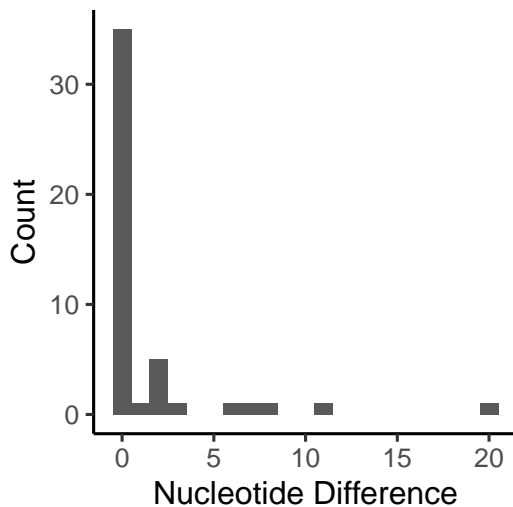
IGHV3-11*01

447 sequences assigned
217 (48.5%) exact matches, in which:
211 unique CDR3
6 unique J



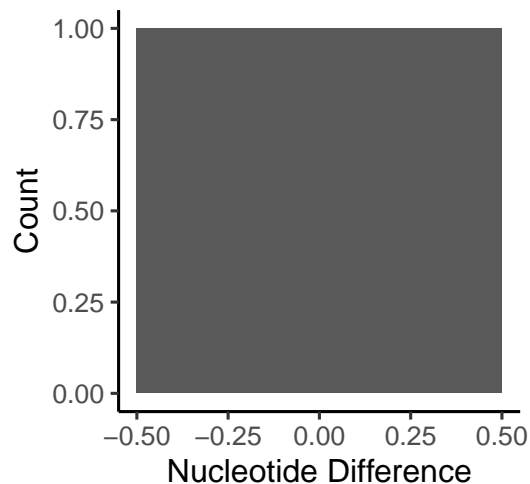
IGHV3-20*01_02

47 sequences assigned
35 (74.5%) exact matches, in which:
34 unique CDR3
5 unique J



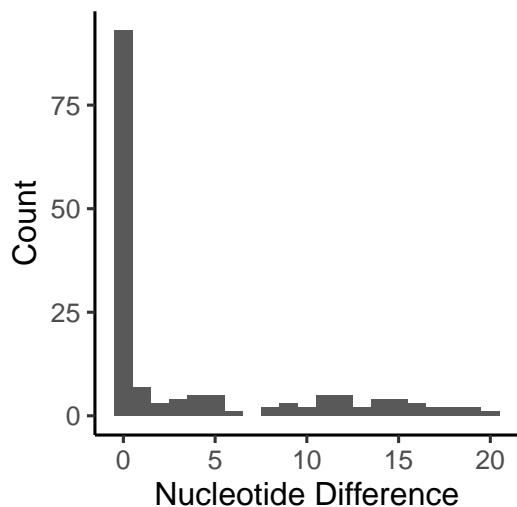
IGHV3-38-3*01

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



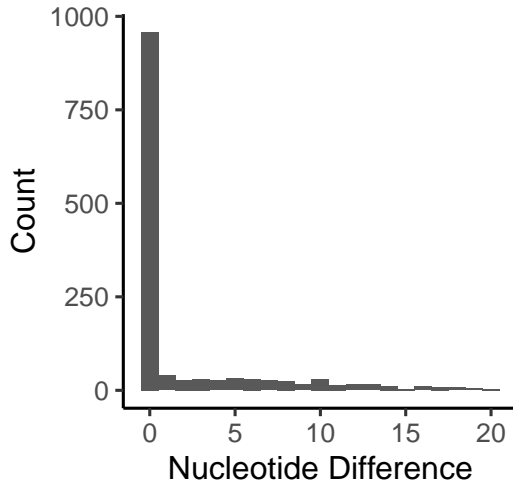
IGHV3-13*01

166 sequences assigned
93 (56%) exact matches, in which:
89 unique CDR3
5 unique J



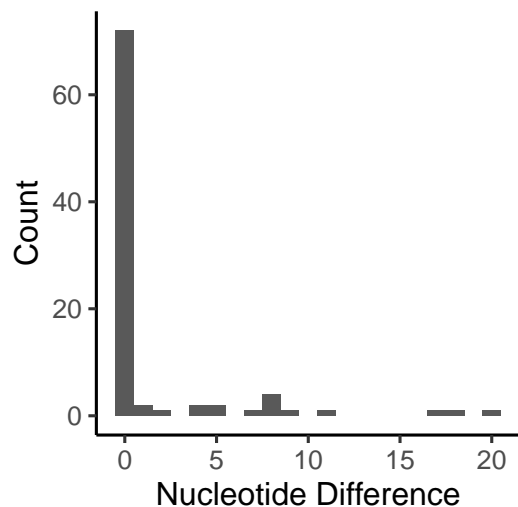
IGHV3-21*01_02

1403 sequences assigned
958 (68.3%) exact matches, in which:
908 unique CDR3
6 unique J



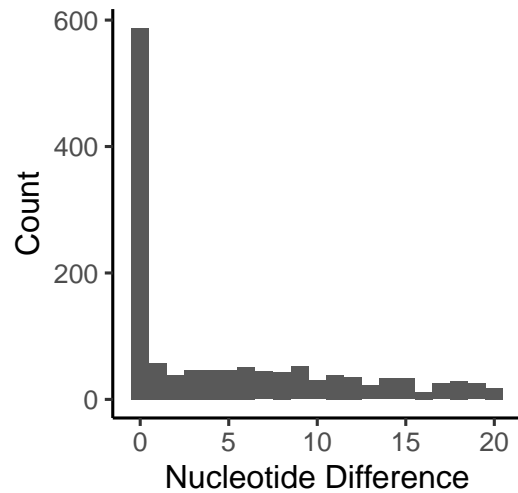
IGHV3-43*01

94 sequences assigned
72 (76.6%) exact matches, in which:
70 unique CDR3
6 unique J



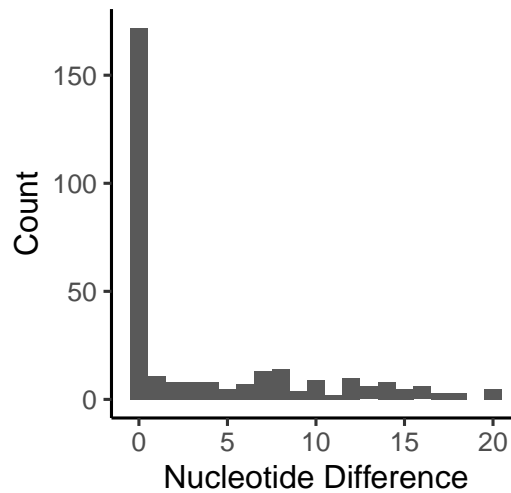
IGHV3-48*01

1447 sequences assigned
588 (40.6%) exact matches, in which:
567 unique CDR3
6 unique J



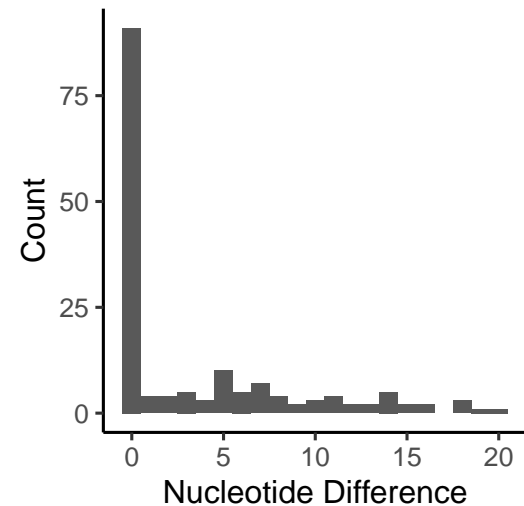
IGHV3-53*01_02

325 sequences assigned
172 (52.9%) exact matches, in which:
164 unique CDR3
6 unique J



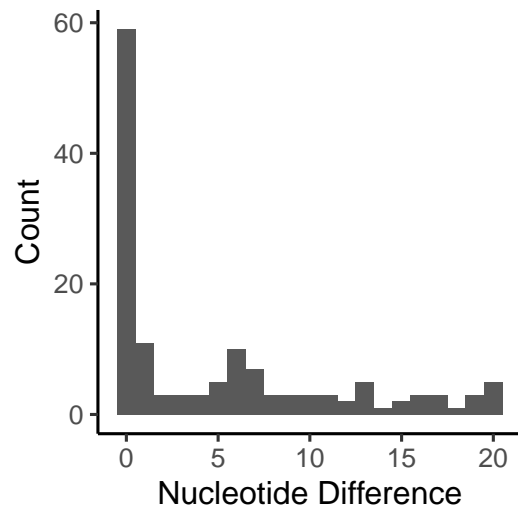
IGHV3-66*01_A193G

182 sequences assigned
91 (50%) exact matches, in which:
86 unique CDR3
6 unique J



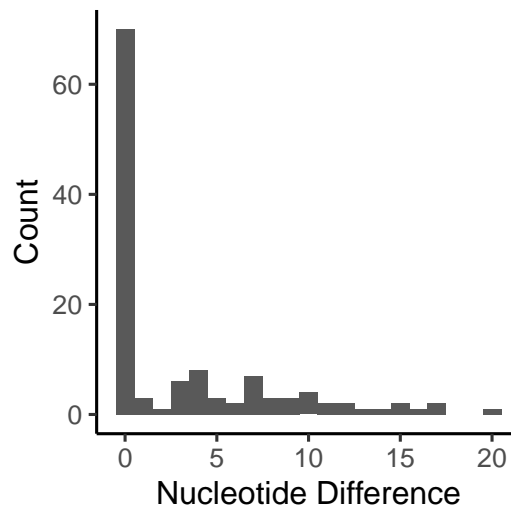
IGHV3-49*03_05

147 sequences assigned
59 (40.1%) exact matches, in which:
59 unique CDR3
5 unique J



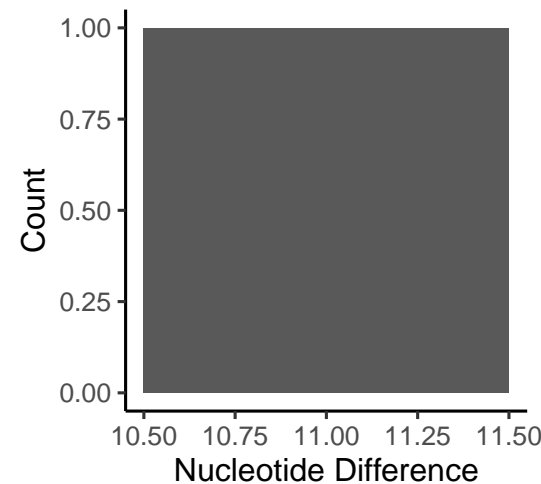
IGHV3-64*01

123 sequences assigned
70 (56.9%) exact matches, in which:
67 unique CDR3
5 unique J



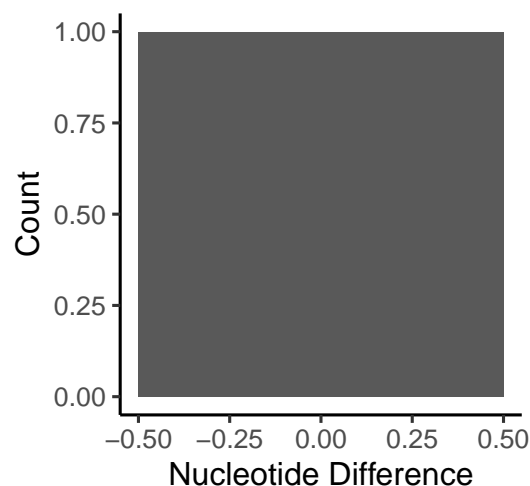
IGHV3-69-1*02

1 sequences assigned
No exact matches.



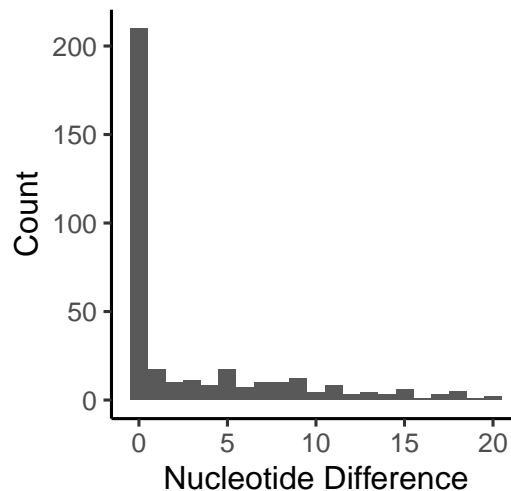
IGHV3-52*02

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



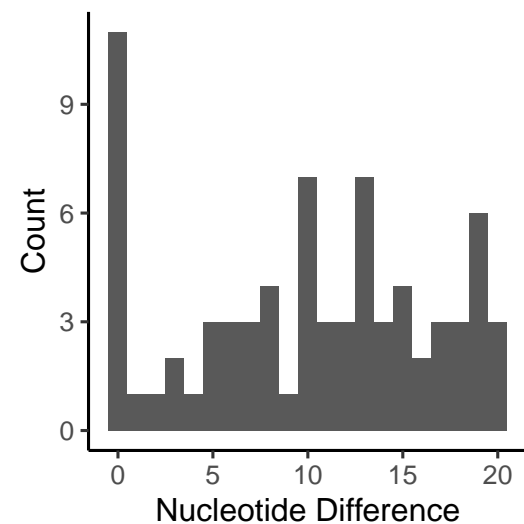
IGHV3-66*02

371 sequences assigned
210 (56.6%) exact matches, in which:
200 unique CDR3
6 unique J



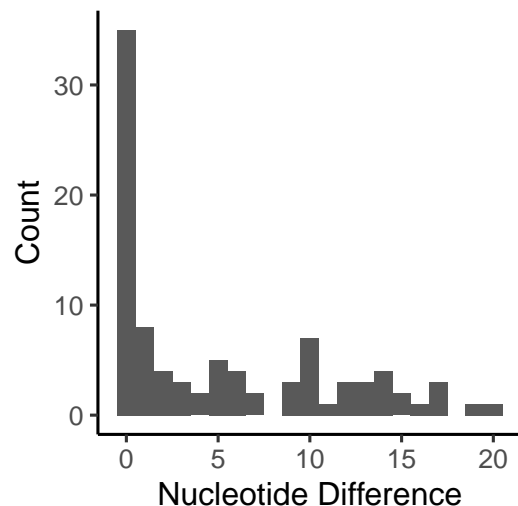
IGHV3-72*01

78 sequences assigned
11 (14.1%) exact matches, in which:
11 unique CDR3
5 unique J



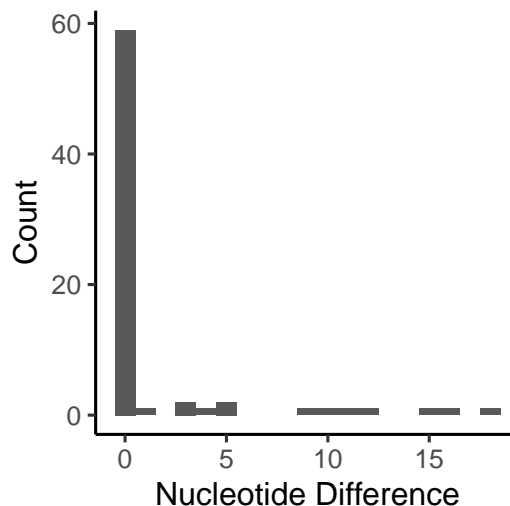
IGHV3-73*01_02

95 sequences assigned
35 (36.8%) exact matches, in which:
35 unique CDR3
5 unique J



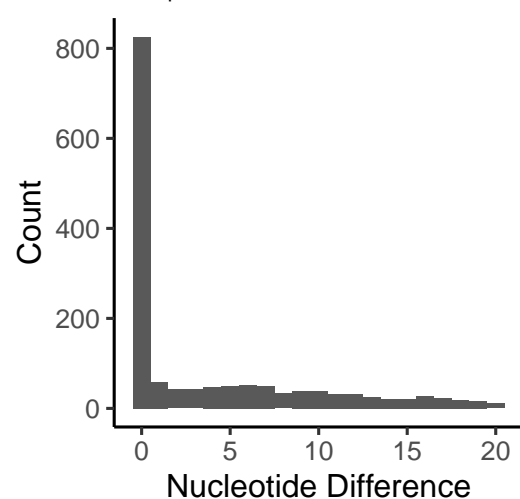
IGHV3-43D*04

77 sequences assigned
59 (76.6%) exact matches, in which:
58 unique CDR3
4 unique J



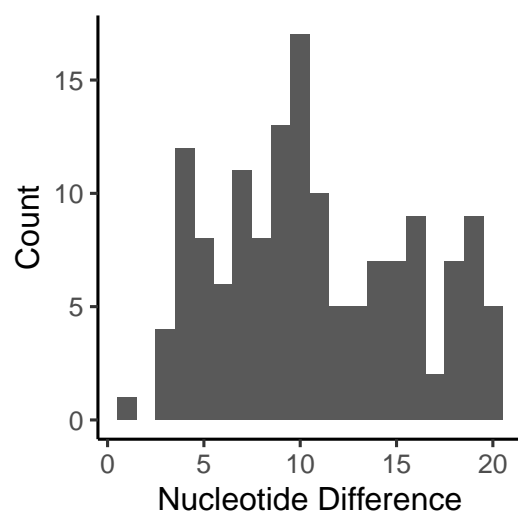
IGHV4-4*09

1658 sequences assigned
826 (49.8%) exact matches, in which:
804 unique CDR3
6 unique J



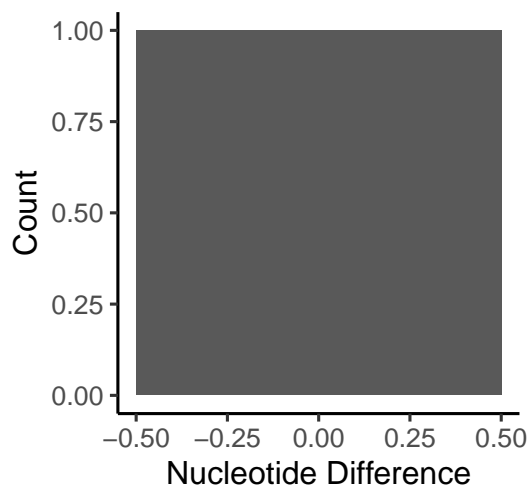
IGHV3-74*03

175 sequences assigned
No exact matches.



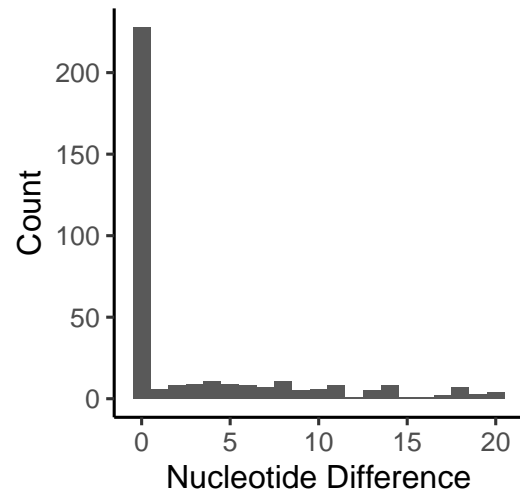
IGHV3-64D*06

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



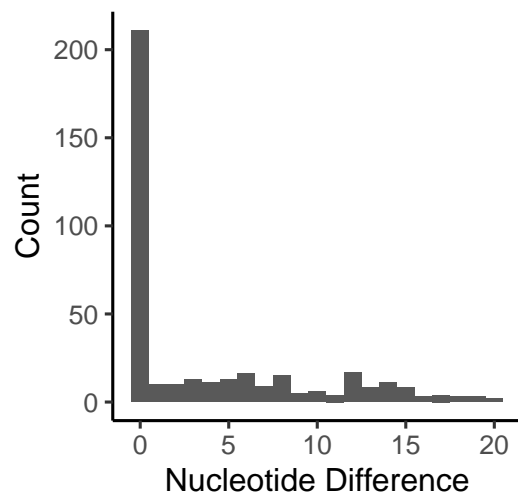
IGHV4-4*02_03

393 sequences assigned
228 (58%) exact matches, in which:
221 unique CDR3
6 unique J



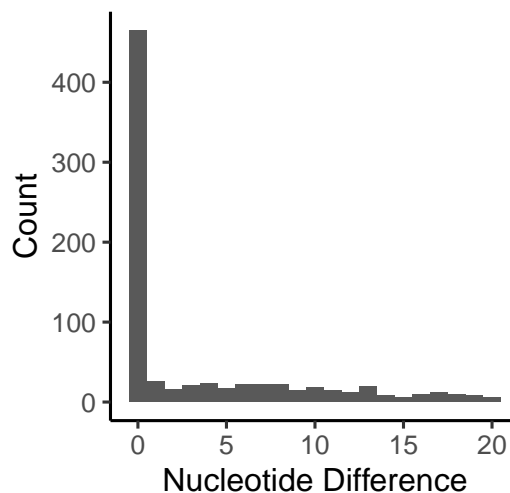
IGHV3-74*01_02

402 sequences assigned
211 (52.5%) exact matches, in which:
204 unique CDR3
6 unique J



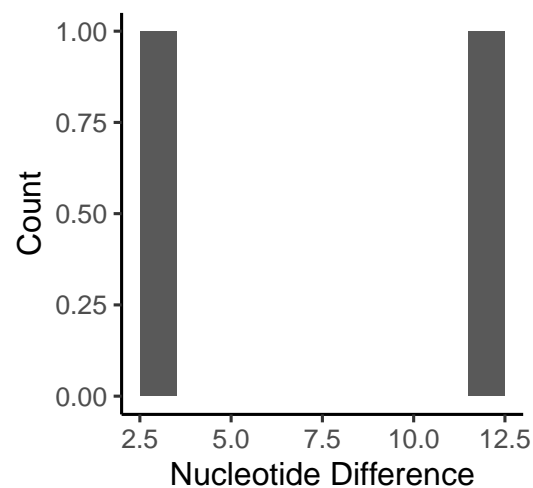
IGHV4-4*07

826 sequences assigned
465 (56.3%) exact matches, in which:
448 unique CDR3
5 unique J



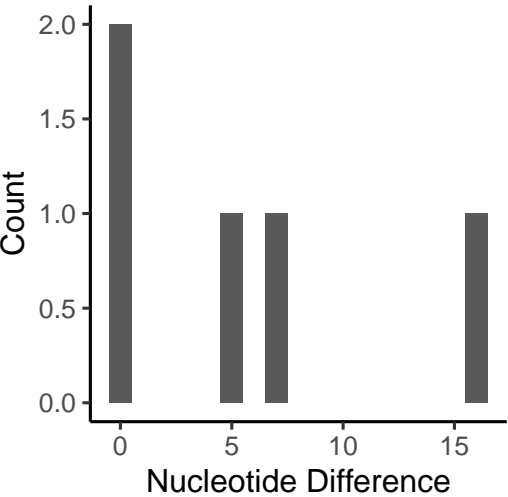
IGHV4-28*01_07

3 sequences assigned
No exact matches.



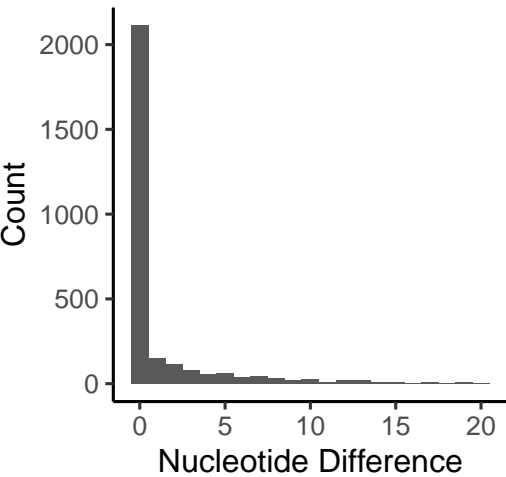
IGHV4-28*02_05

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



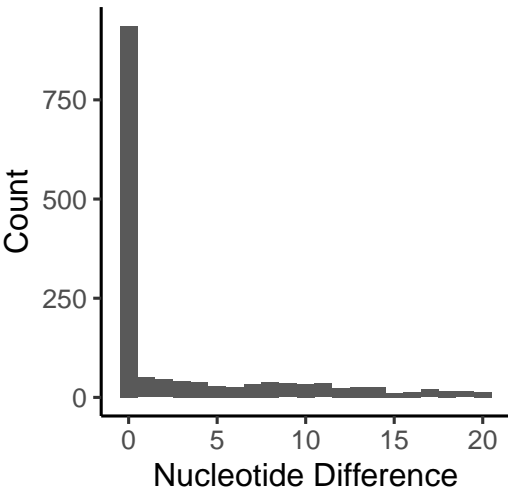
IGHV4-34*01_02

2869 sequences assigned
2113 (73.6%) exact matches, in which:
2017 unique CDR3
6 unique J



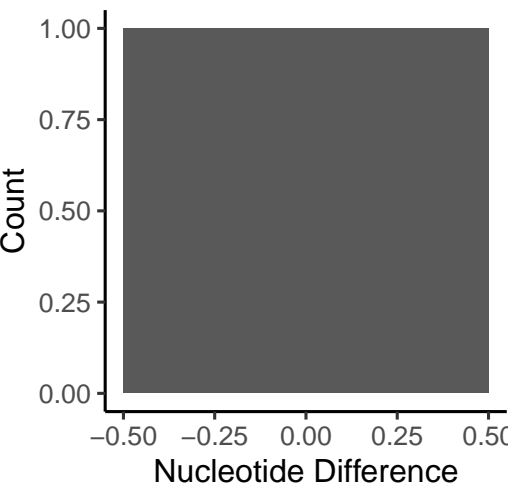
IGHV4-59*02_G88A

1638 sequences assigned
937 (57.2%) exact matches, in which:
886 unique CDR3
6 unique J



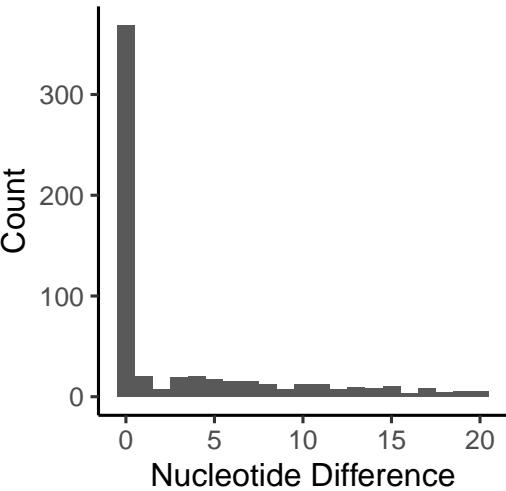
IGHV4-30-2*01

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



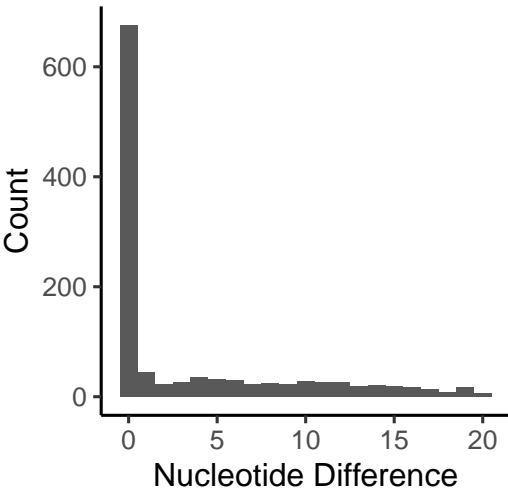
IGHV4-38-2*02_A70G

607 sequences assigned
369 (60.8%) exact matches, in which:
353 unique CDR3
6 unique J



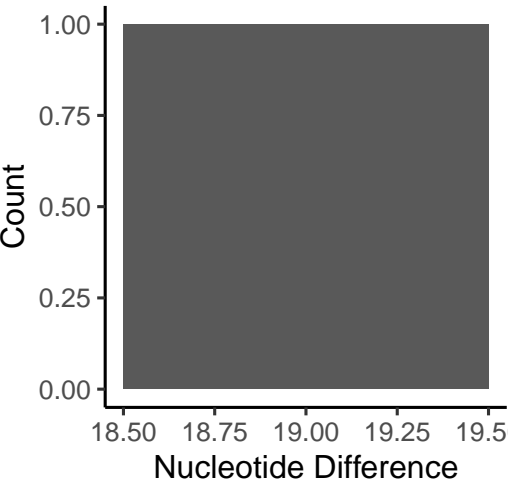
IGHV4-61*02

1221 sequences assigned
676 (55.4%) exact matches, in which:
659 unique CDR3
6 unique J



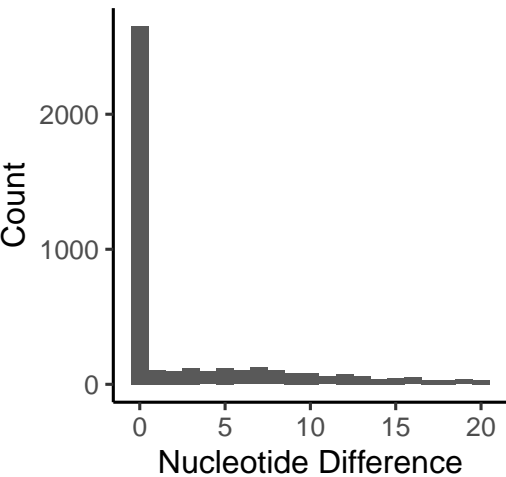
IGHV4-31*02

1 sequences assigned
No exact matches.



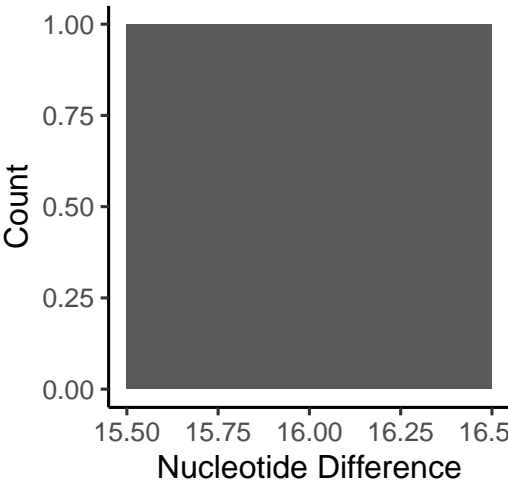
IGHV4-39*02_C258G

4399 sequences assigned
2653 (60.3%) exact matches, in which:
2537 unique CDR3
6 unique J



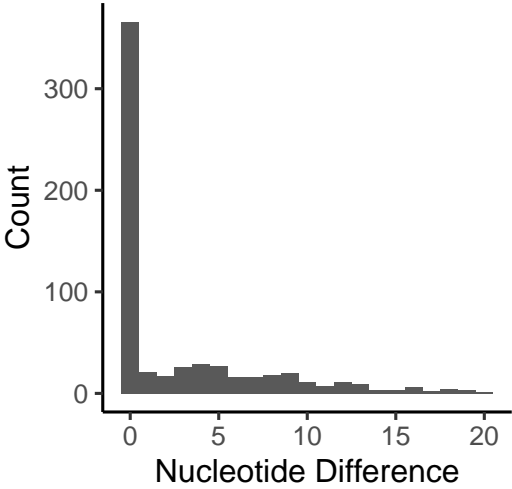
IGHV4/OR15-8*02

1 sequences assigned
No exact matches.



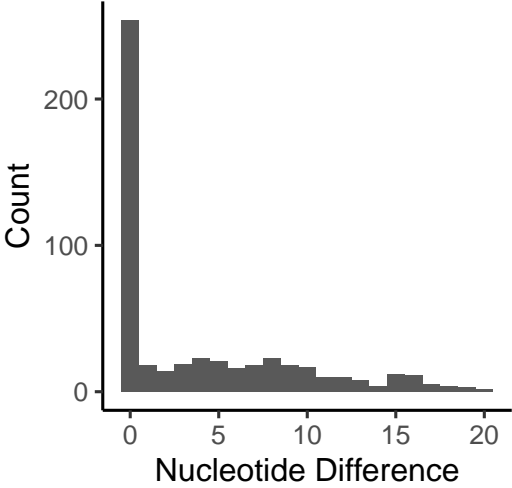
IGHV5–51*07_A128G

645 sequences assigned
366 (56.7%) exact matches, in which:
366 unique CDR3
6 unique J



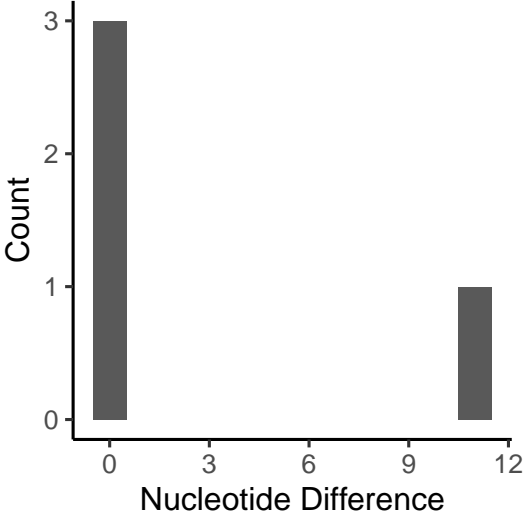
IGHV6–1*01_02

522 sequences assigned
254 (48.7%) exact matches, in which:
254 unique CDR3
6 unique J



IGHV7–4–1*01

4 sequences assigned
3 (75%) exact matches, in which:
3 unique CDR3
2 unique J





Warning – no inferred sequences found.