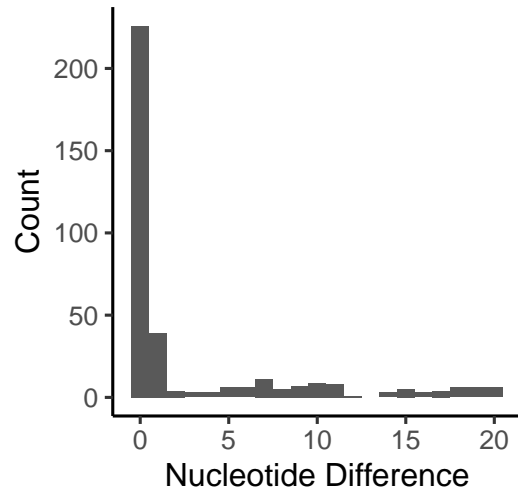


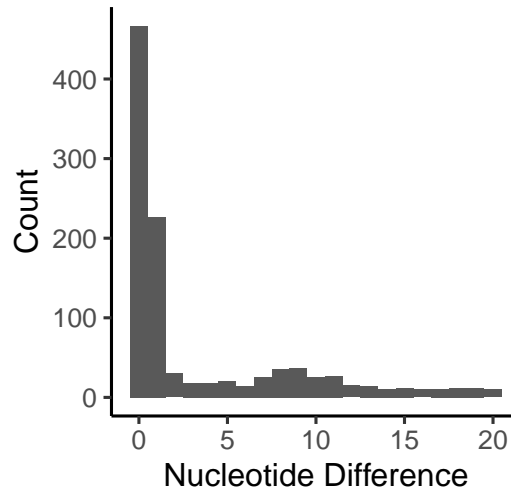
IGHV1-2*04

385 sequences assigned
226 (58.7%) exact matches, in which:
222 unique CDR3
6 unique J



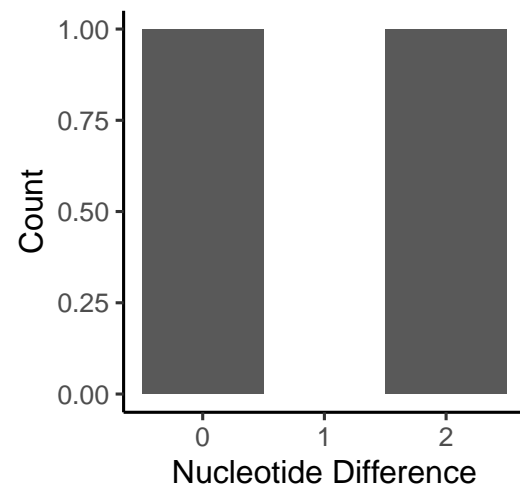
IGHV1-18*01

1119 sequences assigned
467 (41.7%) exact matches, in which:
402 unique CDR3
6 unique J



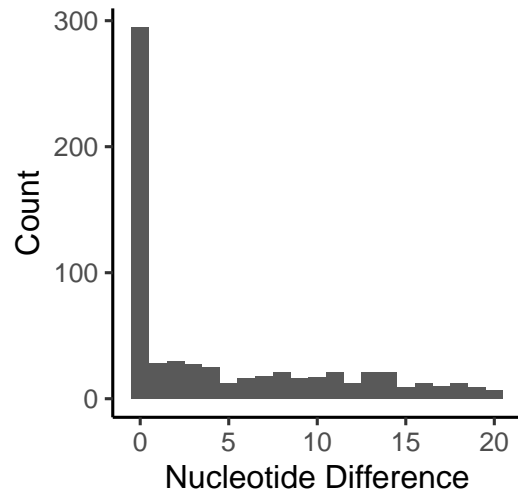
IGHV1-45*02

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



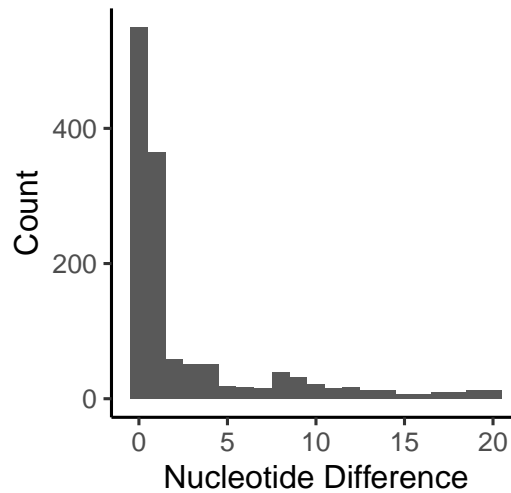
IGHV1-3*01_05

678 sequences assigned
295 (43.5%) exact matches, in which:
287 unique CDR3
6 unique J



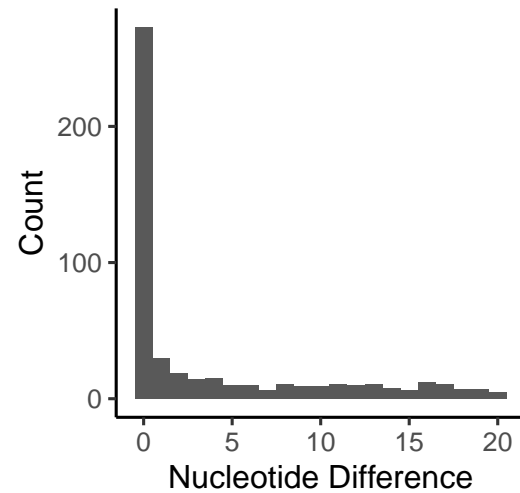
IGHV1-18*04

1400 sequences assigned
550 (39.3%) exact matches, in which:
482 unique CDR3
6 unique J



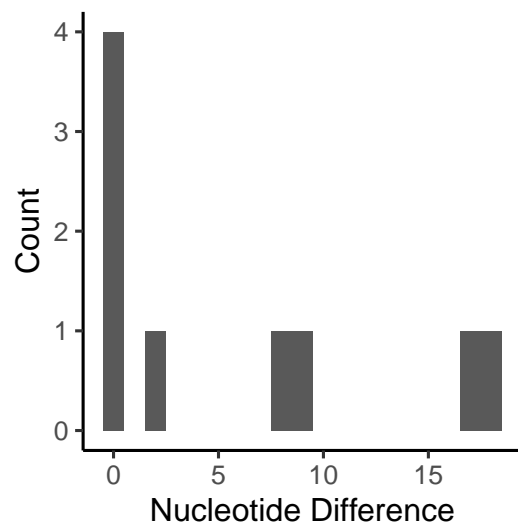
IGHV1-46*01

522 sequences assigned
273 (52.3%) exact matches, in which:
267 unique CDR3
6 unique J



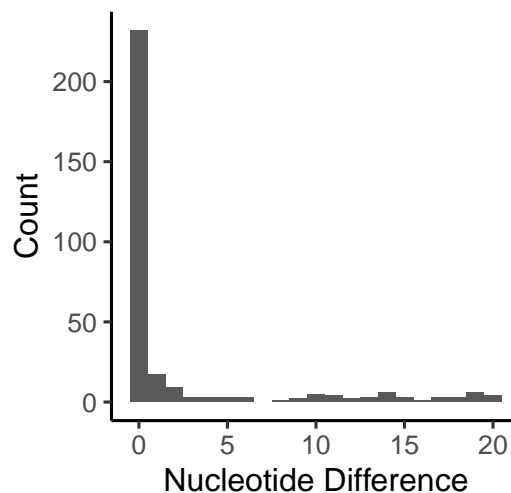
IGHV1-8*01

9 sequences assigned
4 (44.4%) exact matches, in which:
4 unique CDR3
2 unique J



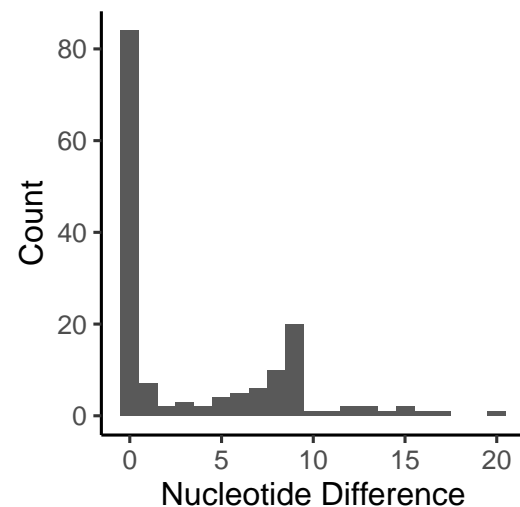
IGHV1-24*01

320 sequences assigned
232 (72.5%) exact matches, in which:
227 unique CDR3
6 unique J



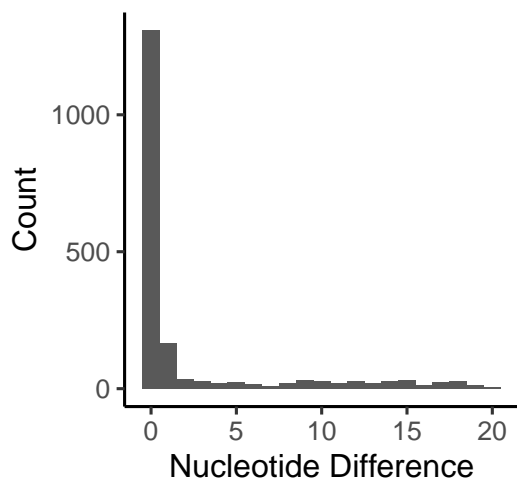
IGHV1-58*01_03

165 sequences assigned
84 (50.9%) exact matches, in which:
83 unique CDR3
6 unique J



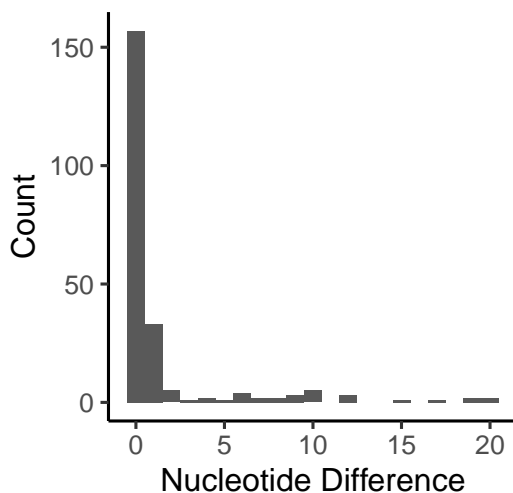
IGHV1-69*01_12_13

1997 sequences assigned
1308 (65.5%) exact matches, in which:
1284 unique CDR3
6 unique J



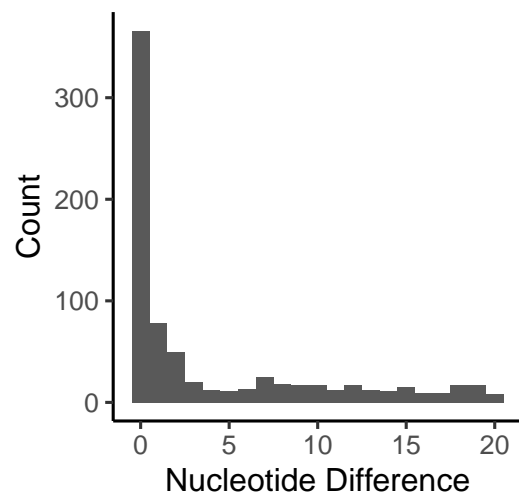
IGHV2-70*01

228 sequences assigned
157 (68.9%) exact matches, in which:
129 unique CDR3
5 unique J



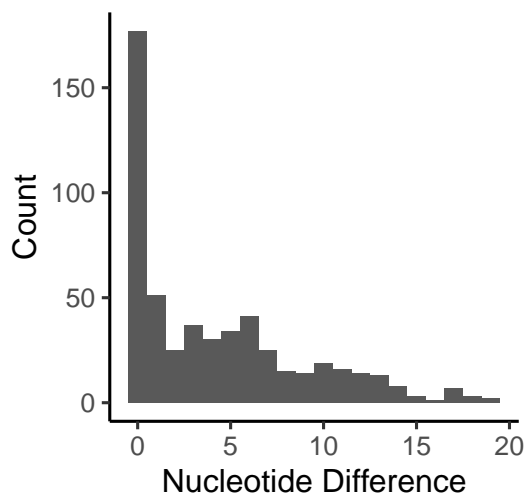
IGHV3-11*06

795 sequences assigned
366 (46%) exact matches, in which:
265 unique CDR3
6 unique J



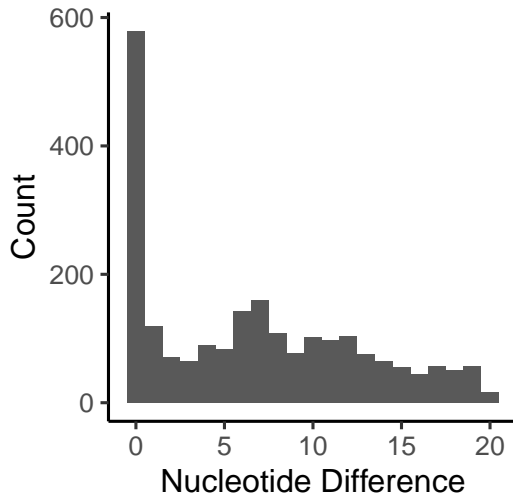
IGHV2-5*02

553 sequences assigned
177 (32%) exact matches, in which:
168 unique CDR3
5 unique J



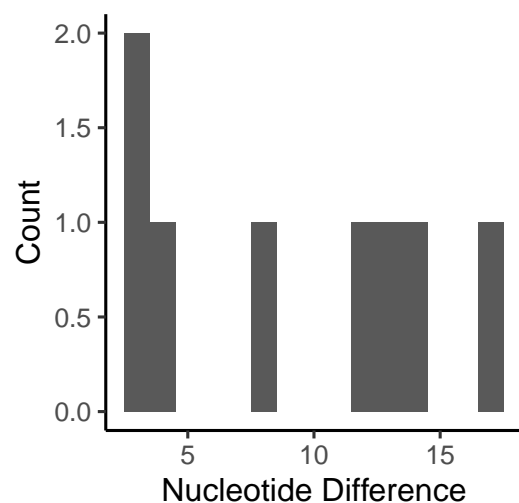
IGHV3-7*03

2388 sequences assigned
579 (24.2%) exact matches, in which:
453 unique CDR3
6 unique J



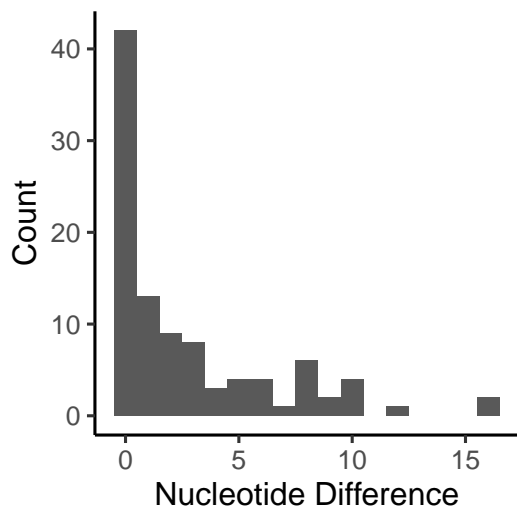
IGHV3-13*01

10 sequences assigned
No exact matches.



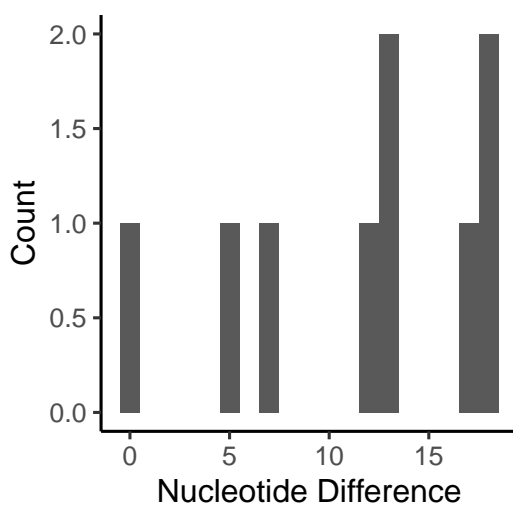
IGHV2-26*01

99 sequences assigned
42 (42.4%) exact matches, in which:
39 unique CDR3
4 unique J



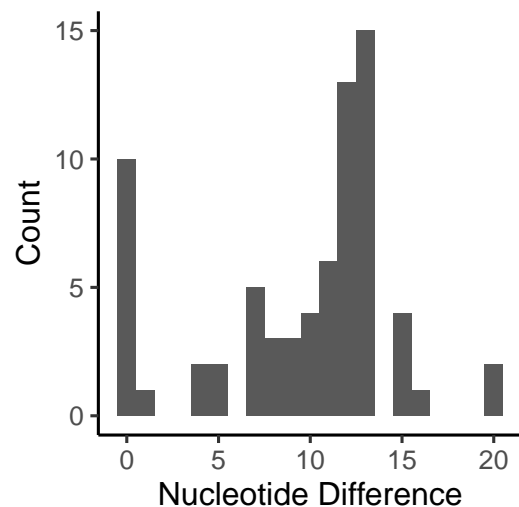
IGHV3-9*01

10 sequences assigned
1 (10%) exact matches, in which:
1 unique CDR3
1 unique J



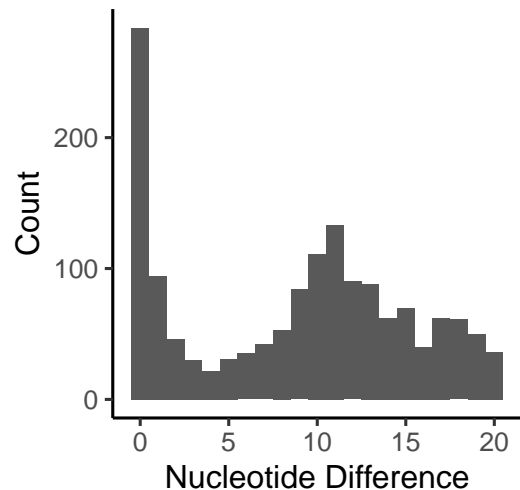
IGHV3-13*05

83 sequences assigned
10 (12%) exact matches, in which:
10 unique CDR3
3 unique J



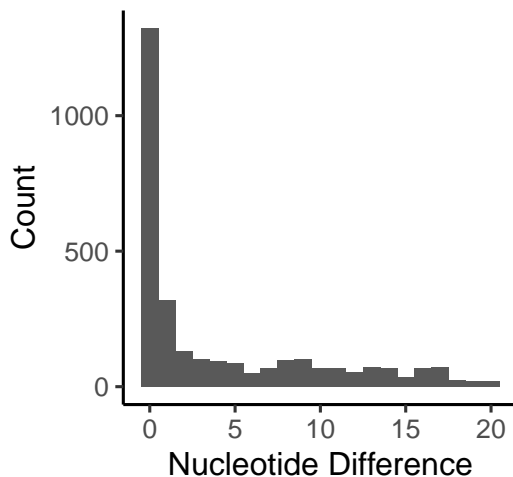
IGHV3-15*01_02

1697 sequences assigned
284 (16.7%) exact matches, in which:
174 unique CDR3
5 unique J



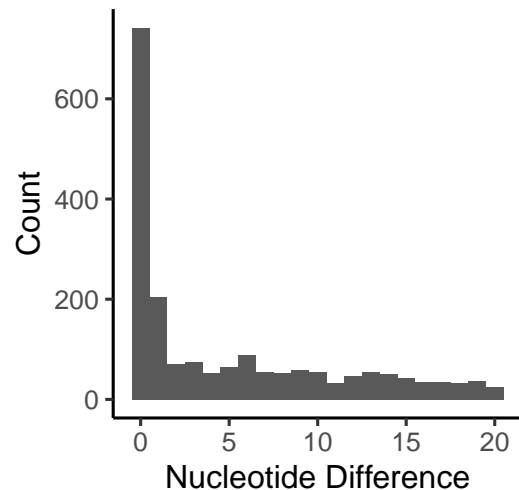
IGHV3-21*01_02

3013 sequences assigned
1322 (43.9%) exact matches, in which:
927 unique CDR3
6 unique J



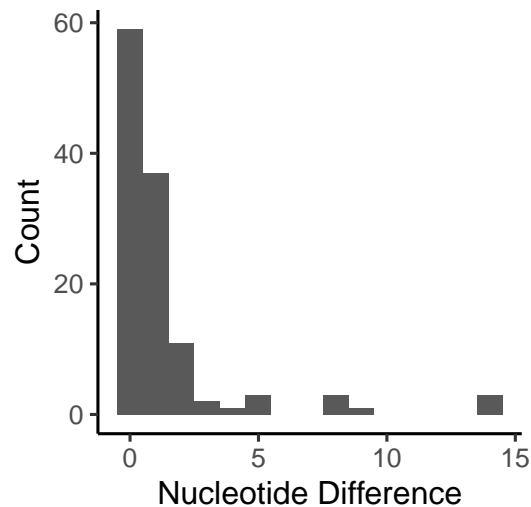
IGHV3-33*01

2061 sequences assigned
742 (36%) exact matches, in which:
502 unique CDR3
6 unique J



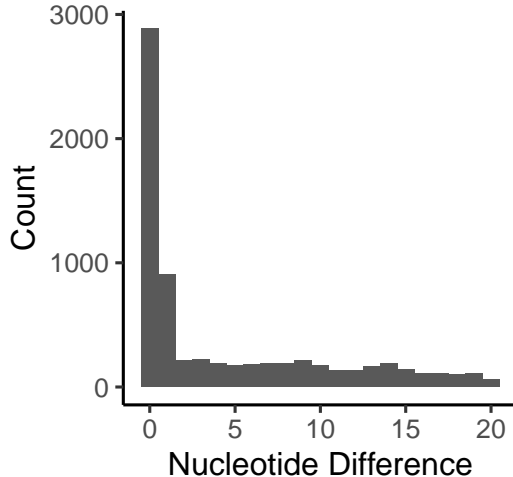
IGHV3-20*01_02

120 sequences assigned
59 (49.2%) exact matches, in which:
29 unique CDR3
5 unique J



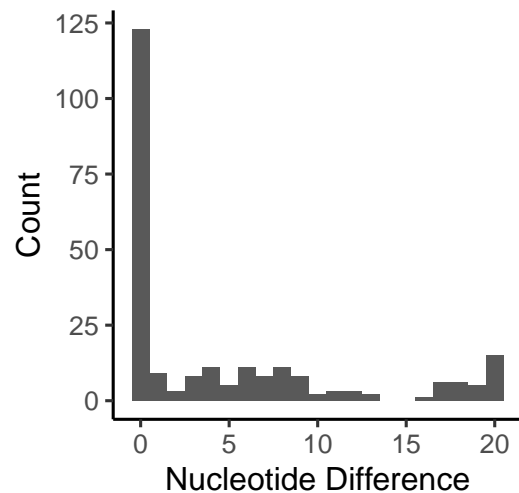
IGHV3-23*01_04

7249 sequences assigned
2885 (39.8%) exact matches, in which:
2223 unique CDR3
6 unique J



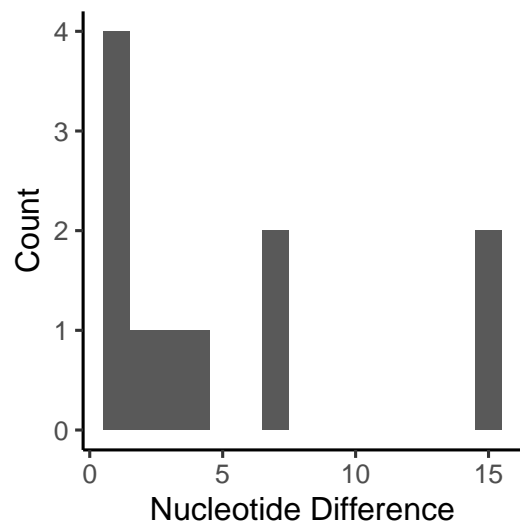
IGHV3-43*01

255 sequences assigned
123 (48.2%) exact matches, in which:
80 unique CDR3
5 unique J



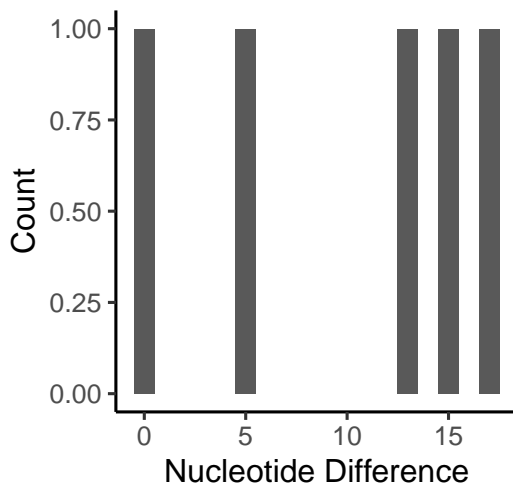
IGHV3-20*03_04

11 sequences assigned
No exact matches.



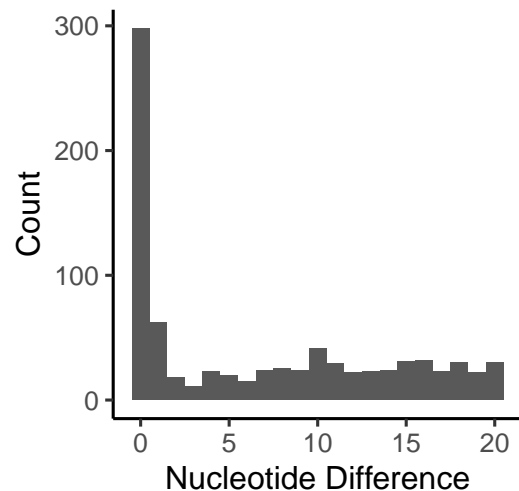
IGHV3-30-3*01

8 sequences assigned
1 (12.5%) exact matches, in which:
1 unique CDR3
1 unique J



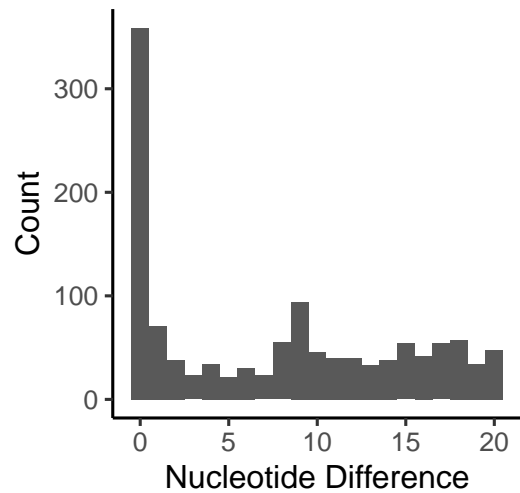
IGHV3-48*02

994 sequences assigned
298 (30%) exact matches, in which:
188 unique CDR3
6 unique J



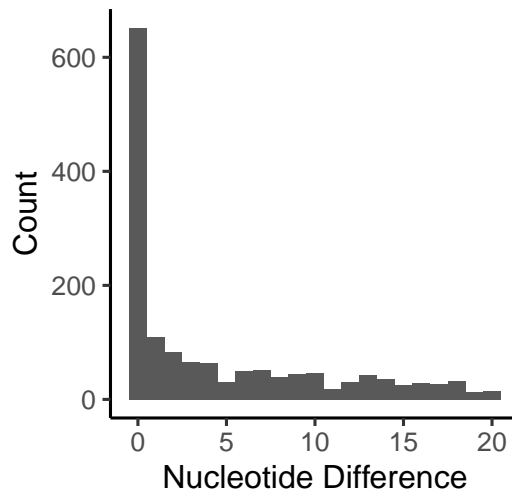
IGHV3-48*04

1485 sequences assigned
359 (24.2%) exact matches, in which:
262 unique CDR3
5 unique J



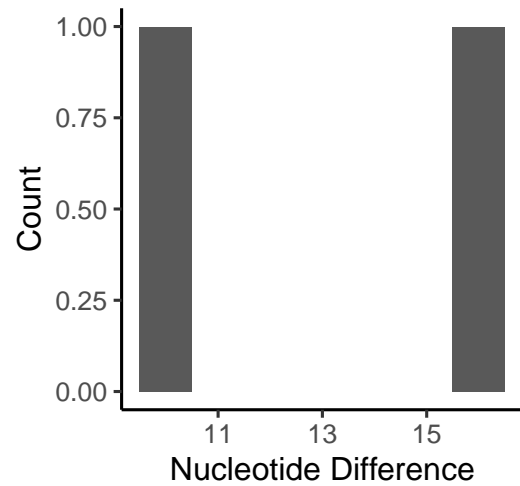
IGHV3-53*01_02

1592 sequences assigned
652 (41%) exact matches, in which:
527 unique CDR3
6 unique J



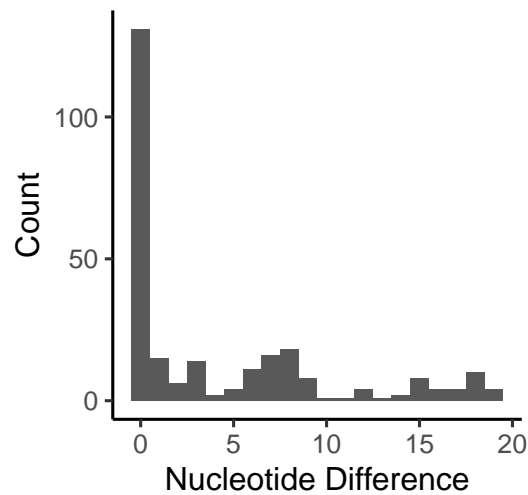
IGHV3-66*04

3 sequences assigned
No exact matches.



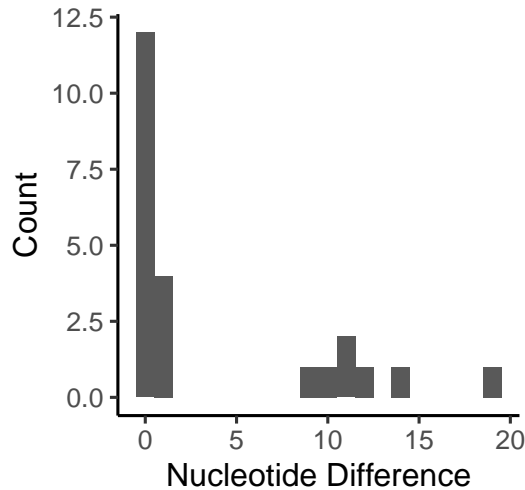
IGHV3-49*03_05

280 sequences assigned
131 (46.8%) exact matches, in which:
106 unique CDR3
5 unique J



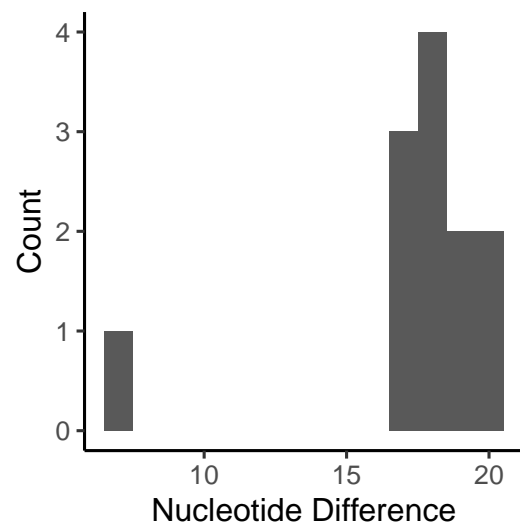
IGHV3-64*02_07

23 sequences assigned
12 (52.2%) exact matches, in which:
7 unique CDR3
2 unique J



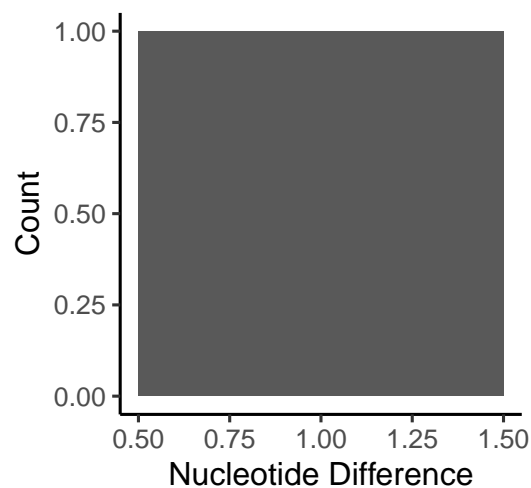
IGHV3-69-1*01

22 sequences assigned
No exact matches.



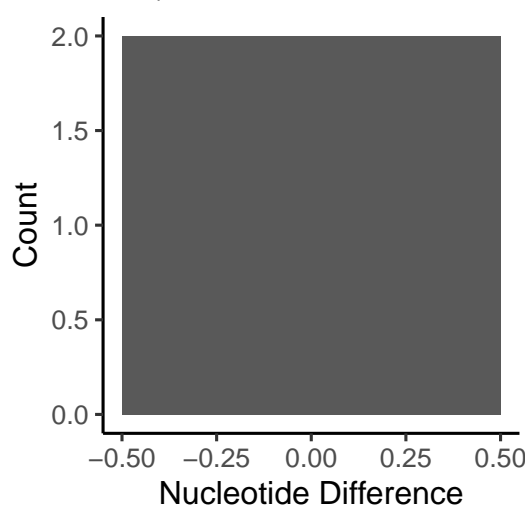
IGHV3-52*01_03

1 sequences assigned
No exact matches.



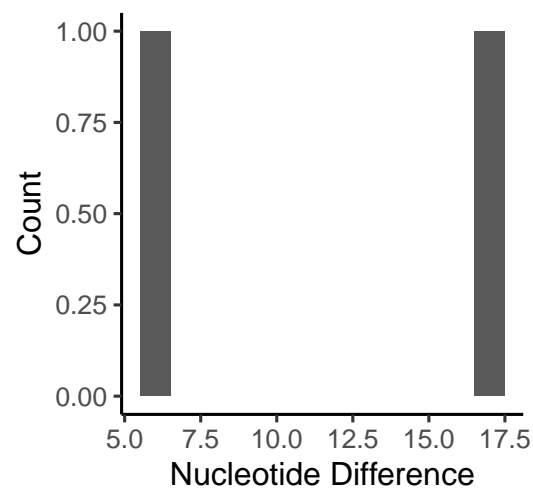
IGHV3-66*03

2 sequences assigned
2 (100%) exact matches, in which:
2 unique CDR3
2 unique J



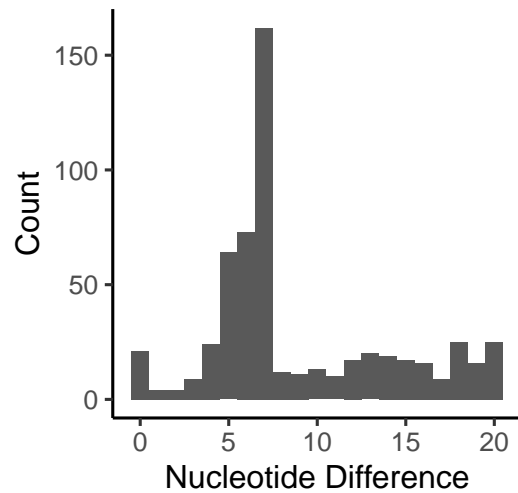
IGHV3-69-1*02

6 sequences assigned
No exact matches.



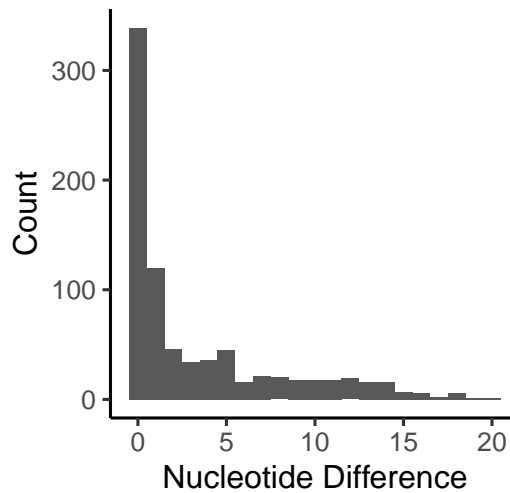
IGHV3-72*01

603 sequences assigned
21 (3.5%) exact matches, in which:
17 unique CDR3
4 unique J



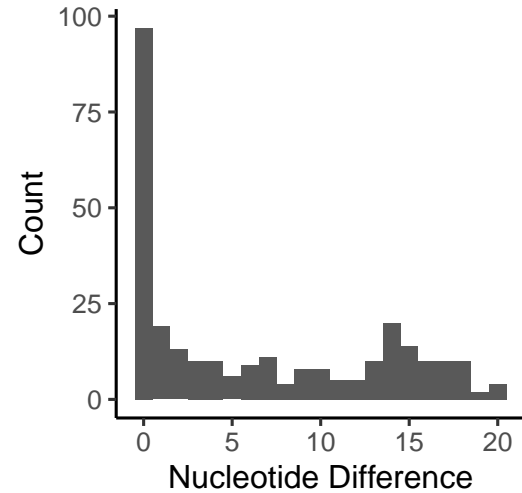
IGHV3-74*01_02

828 sequences assigned
339 (40.9%) exact matches, in which:
228 unique CDR3
6 unique J



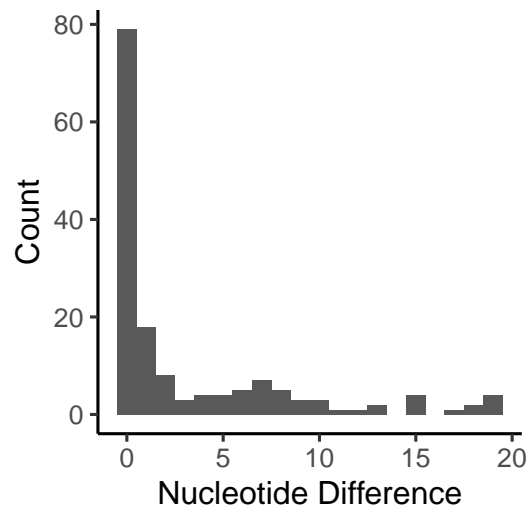
IGHV3-64D*08

298 sequences assigned
97 (32.6%) exact matches, in which:
74 unique CDR3
6 unique J



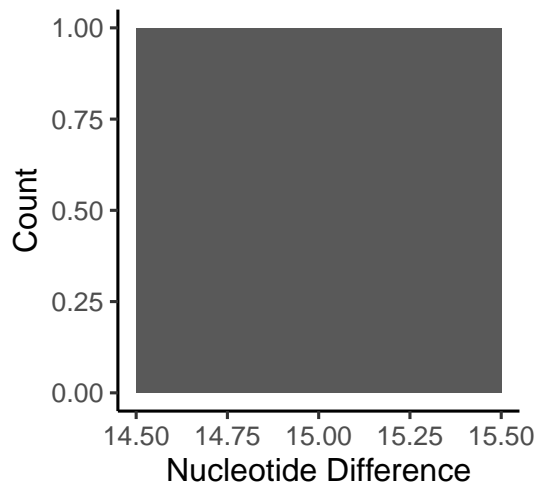
IGHV3-73*01_02

159 sequences assigned
79 (49.7%) exact matches, in which:
50 unique CDR3
4 unique J



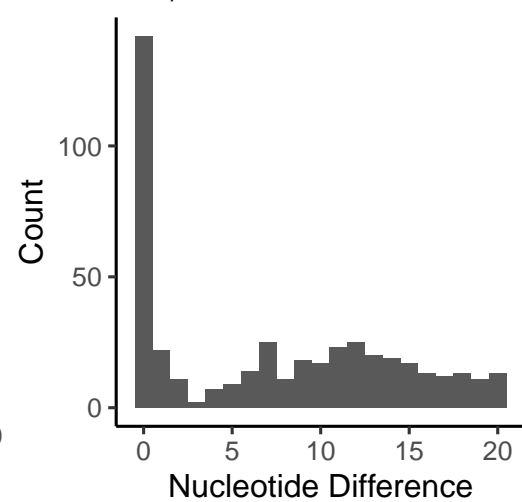
IGHV3-43D*03

1 sequences assigned
No exact matches.



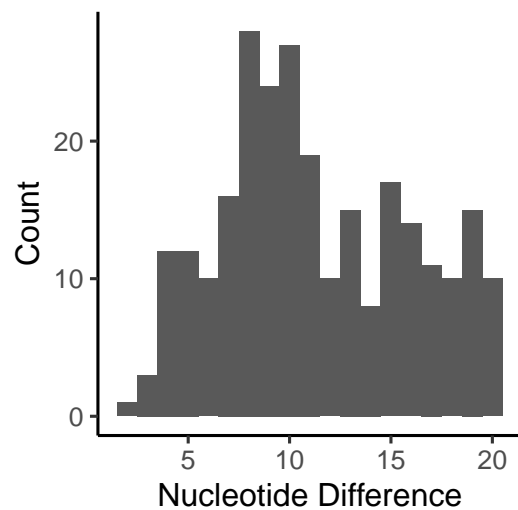
IGHV4-4*02_03

503 sequences assigned
142 (28.2%) exact matches, in which:
112 unique CDR3
5 unique J



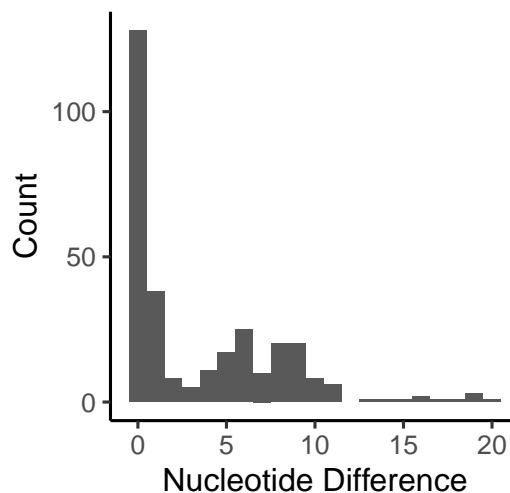
IGHV3-74*03

315 sequences assigned
No exact matches.



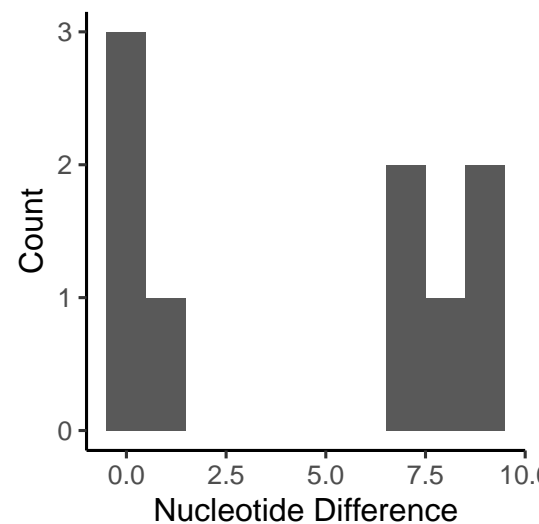
IGHV3-64D*06

321 sequences assigned
128 (39.9%) exact matches, in which:
99 unique CDR3
5 unique J



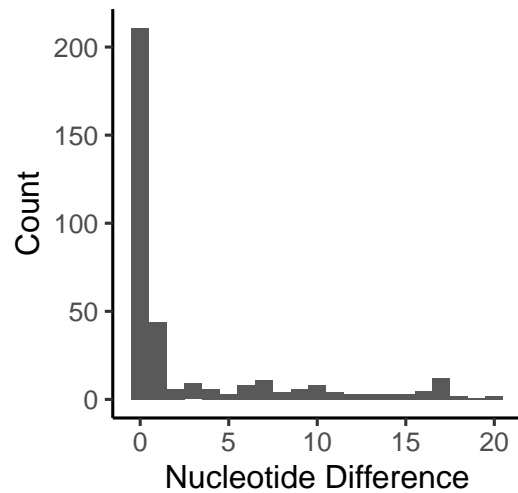
IGHV4-28*01_07

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



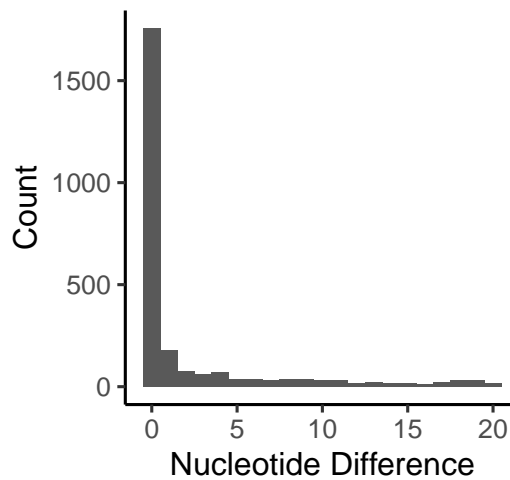
IGHV4-30-2*01

361 sequences assigned
211 (58.4%) exact matches, in which:
172 unique CDR3
6 unique J



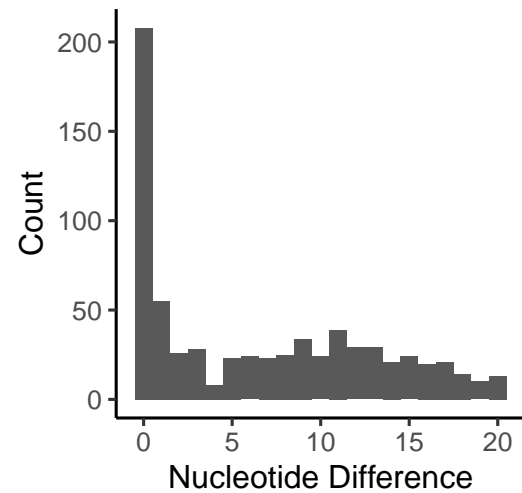
IGHV4-34*01_02

2784 sequences assigned
1756 (63.1%) exact matches, in which:
1569 unique CDR3
6 unique J



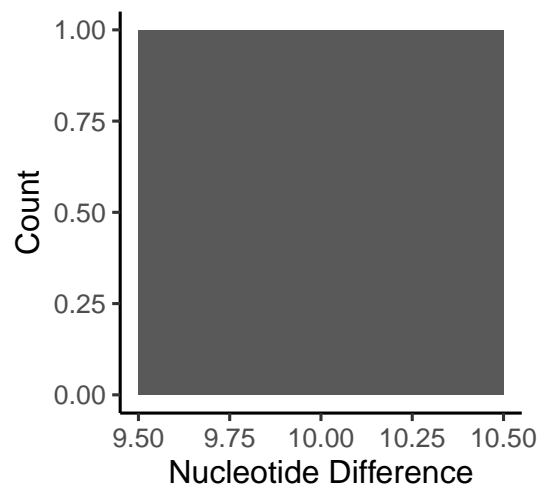
IGHV4-39*02_C258G

792 sequences assigned
208 (26.3%) exact matches, in which:
175 unique CDR3
6 unique J



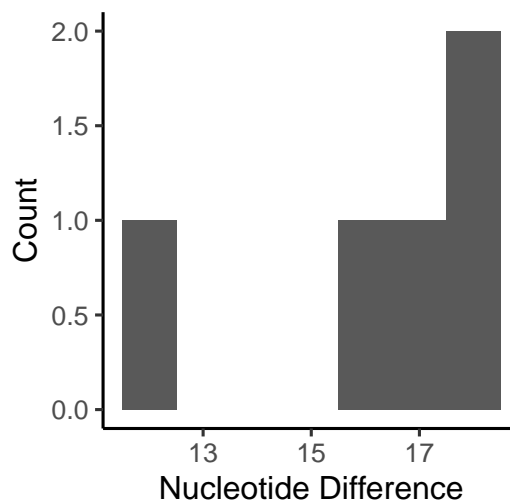
IGHV4-30-4*08

2 sequences assigned
No exact matches.



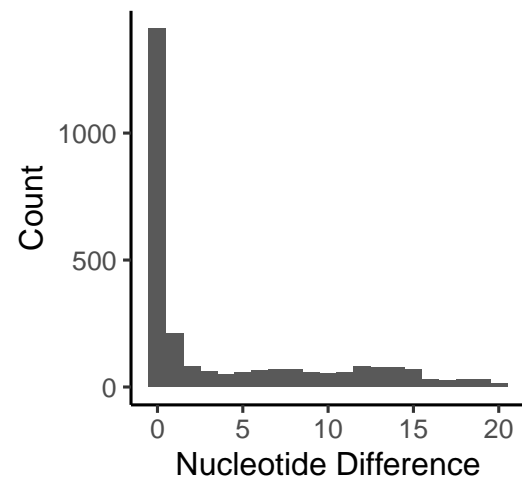
IGHV4-38-2*02

5 sequences assigned
No exact matches.



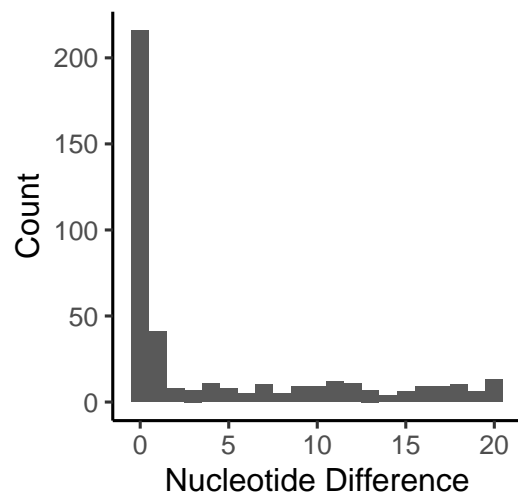
IGHV4-59*02_G88A

2824 sequences assigned
1411 (50%) exact matches, in which:
1254 unique CDR3
6 unique J



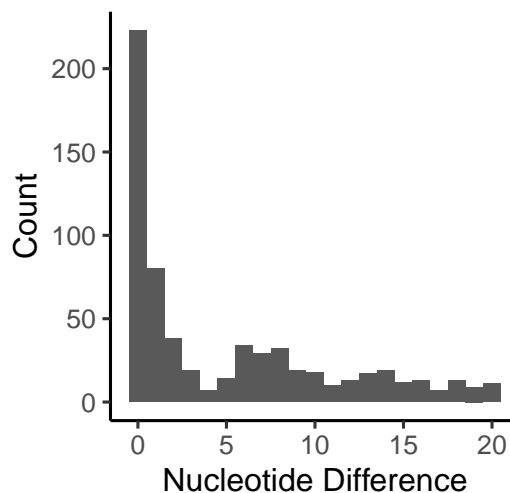
IGHV4-31*02

535 sequences assigned
216 (40.4%) exact matches, in which:
185 unique CDR3
6 unique J



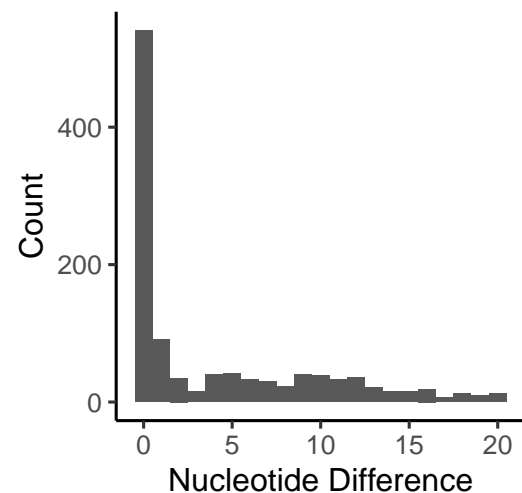
IGHV4-39*07

707 sequences assigned
223 (31.5%) exact matches, in which:
189 unique CDR3
6 unique J



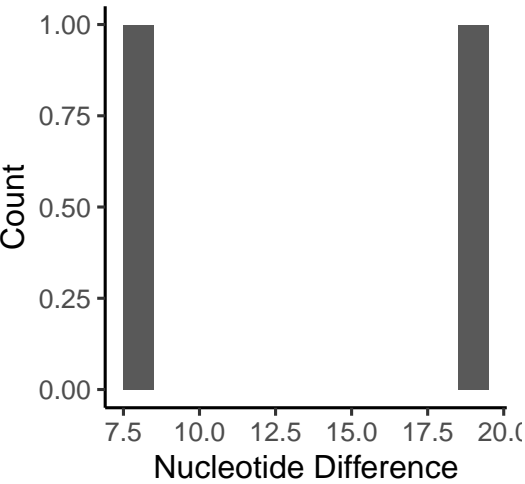
IGHV4-61*01

1210 sequences assigned
541 (44.7%) exact matches, in which:
483 unique CDR3
6 unique J



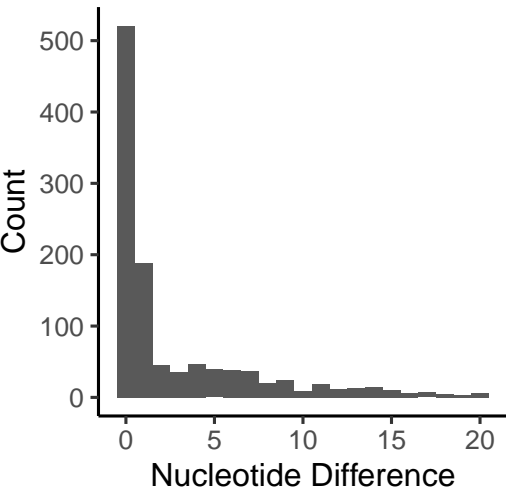
IGHV4/OR15-8*01

5 sequences assigned
No exact matches.



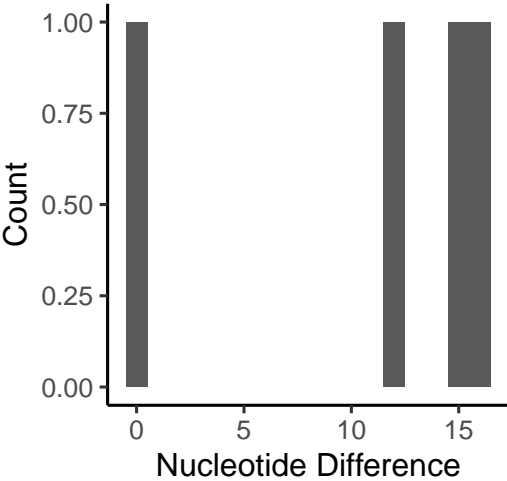
IGHV5-51*07_A128G

1140 sequences assigned
521 (45.7%) exact matches, in which:
485 unique CDR3
6 unique J



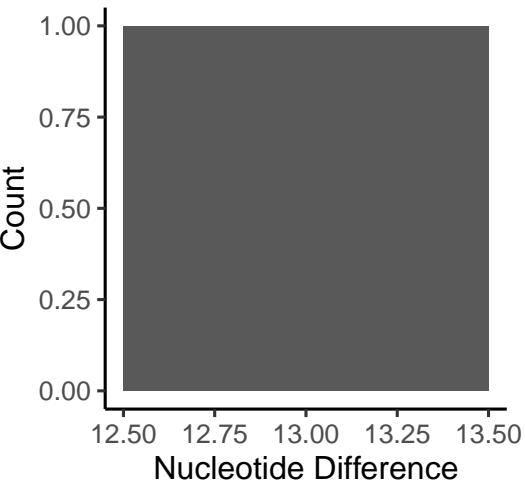
IGHV7-4-1*02

4 sequences assigned
1 (25%) exact matches, in which:
1 unique CDR3
1 unique J



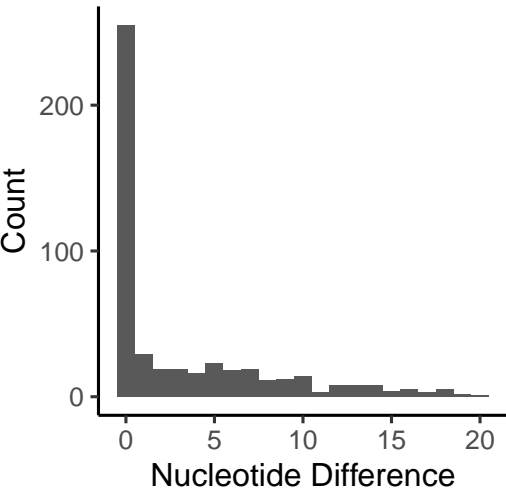
IGHV1/OR15-9*01

1 sequences assigned
No exact matches.



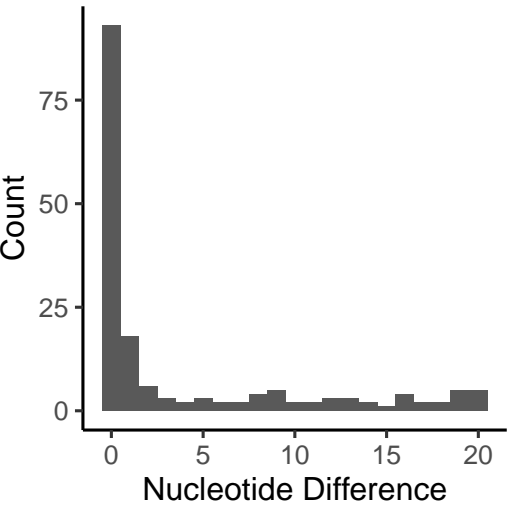
IGHV6-1*01_02

494 sequences assigned
255 (51.6%) exact matches, in which:
248 unique CDR3
6 unique J



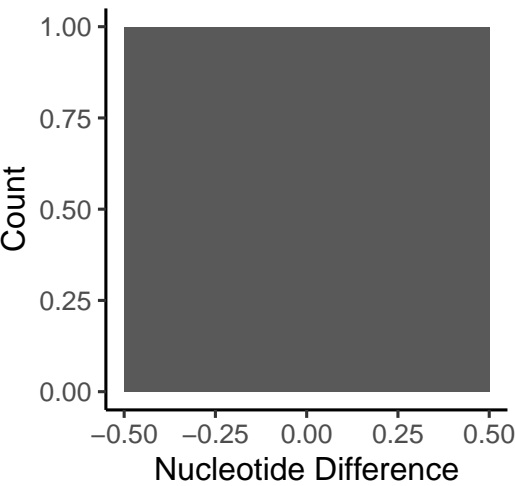
IGHV5-10-1*01_03

183 sequences assigned
93 (50.8%) exact matches, in which:
92 unique CDR3
6 unique J



IGHV7-4-1*01

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





Warning – no inferred sequences found.