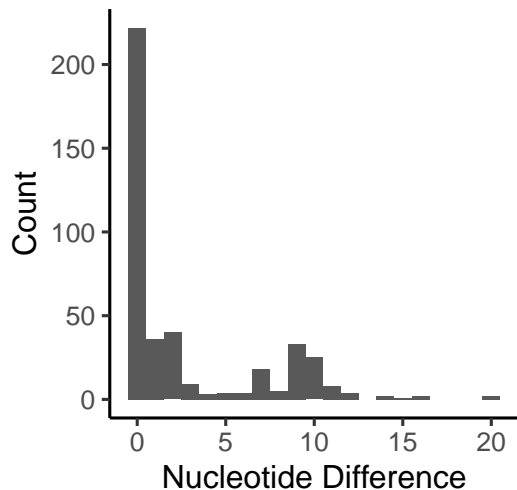


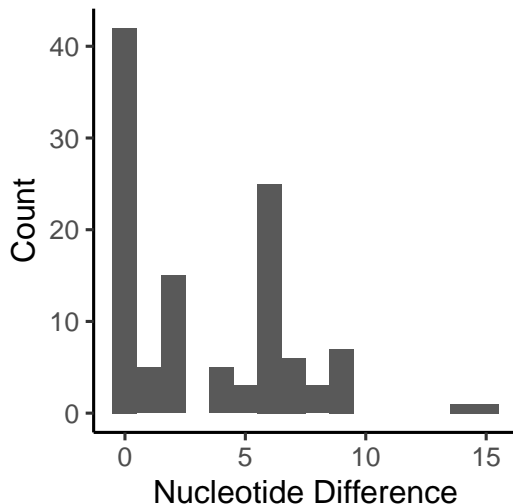
IGHV1-2*04

426 sequences assigned
222 (52.1%) exact matches, in which:
198 unique CDR3
6 unique J



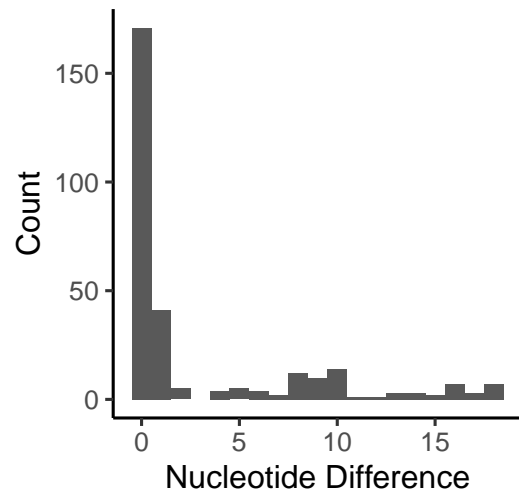
IGHV1-3*01_05_A291G_

114 sequences assigned
42 (36.8%) exact matches, in which:
42 unique CDR3
5 unique J



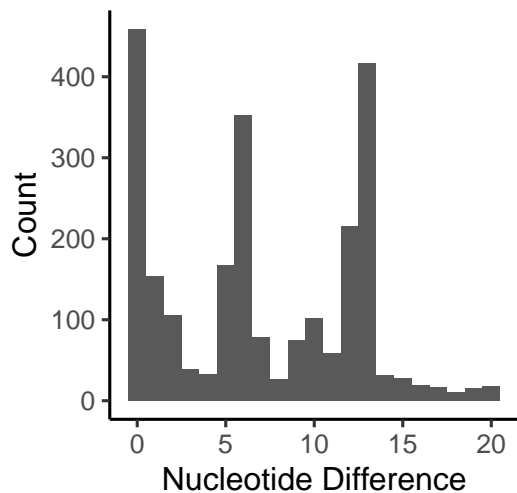
IGHV1-24*01

619 sequences assigned
171 (27.6%) exact matches, in which:
159 unique CDR3
6 unique J



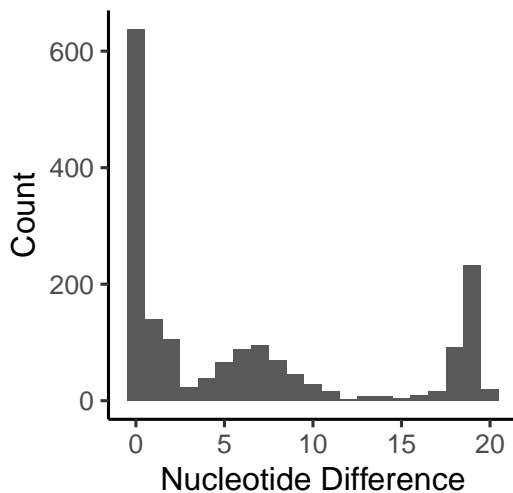
IGHV1-2*06

2489 sequences assigned
459 (18.4%) exact matches, in which:
427 unique CDR3
6 unique J



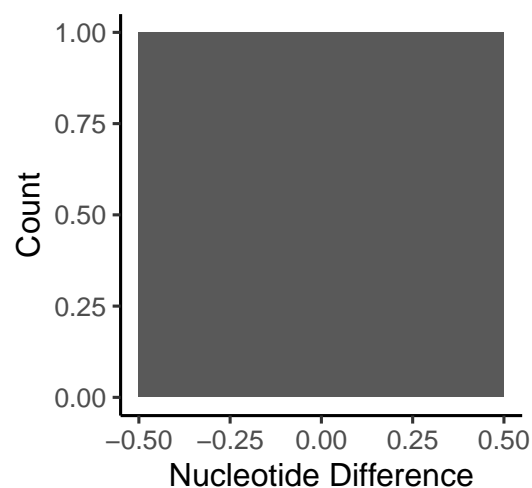
IGHV1-8*01

1810 sequences assigned
638 (35.2%) exact matches, in which:
612 unique CDR3
6 unique J



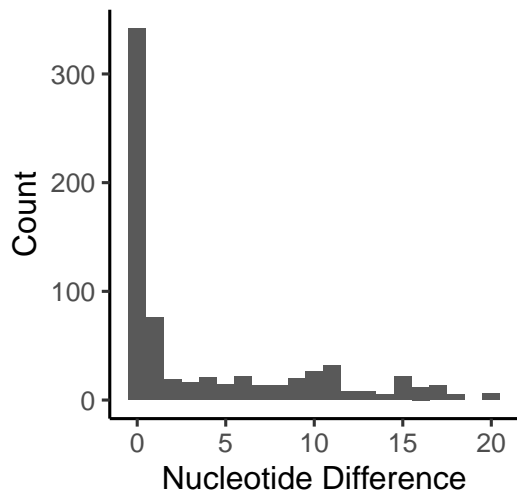
IGHV1-45*02

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



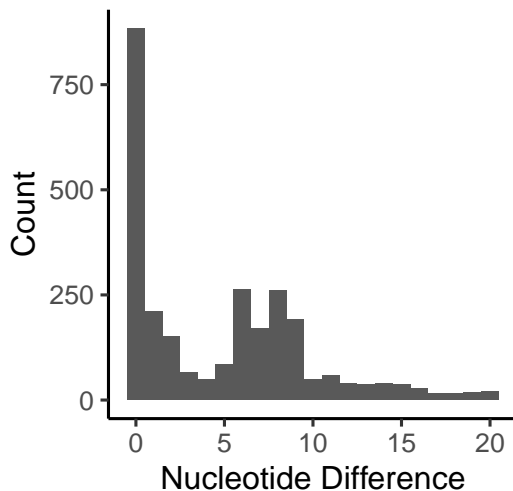
IGHV1-3*01_05

707 sequences assigned
342 (48.4%) exact matches, in which:
321 unique CDR3
6 unique J



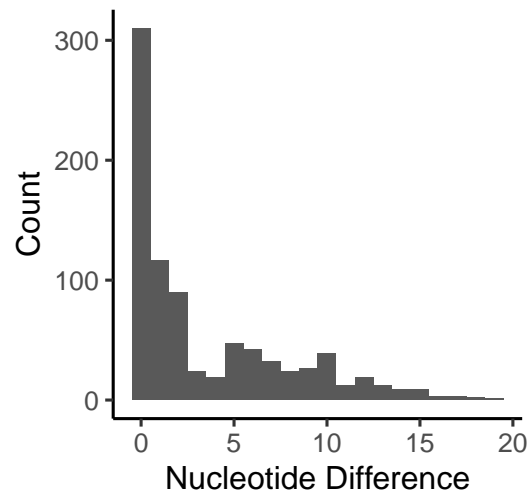
IGHV1-18*01

3350 sequences assigned
884 (26.4%) exact matches, in which:
830 unique CDR3
6 unique J



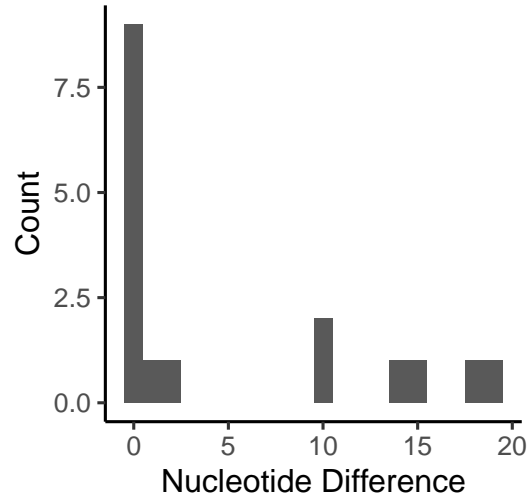
IGHV1-46*01

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



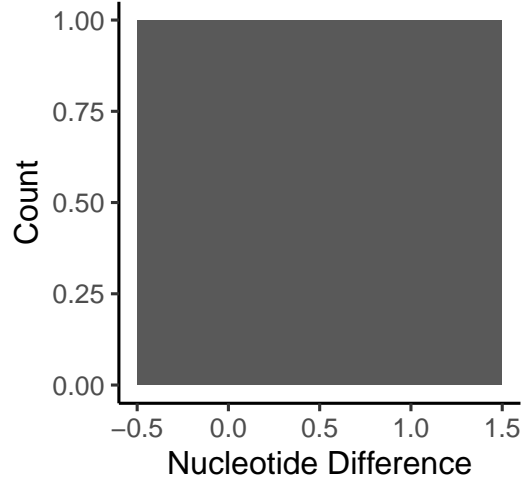
IGHV1-58*02

17 sequences assigned
9 (52.9%) exact matches, in which:
9 unique CDR3
3 unique J



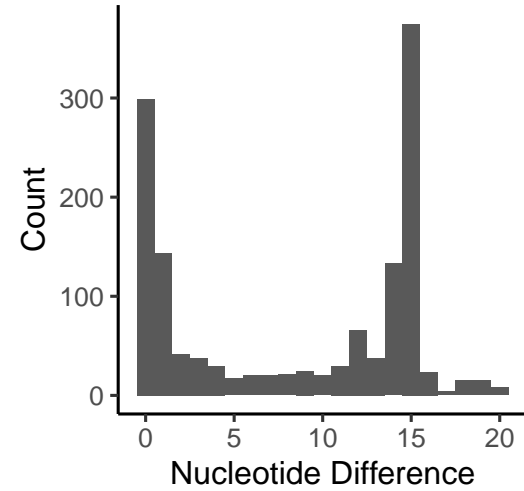
IGHV1-69-2*01

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



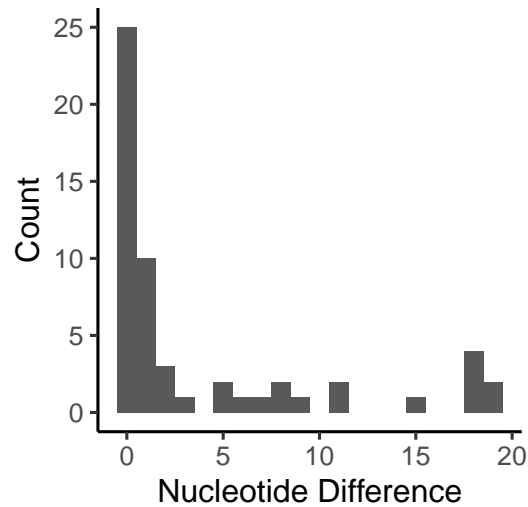
IGHV2-5*02

1463 sequences assigned
299 (20.4%) exact matches, in which:
287 unique CDR3
6 unique J



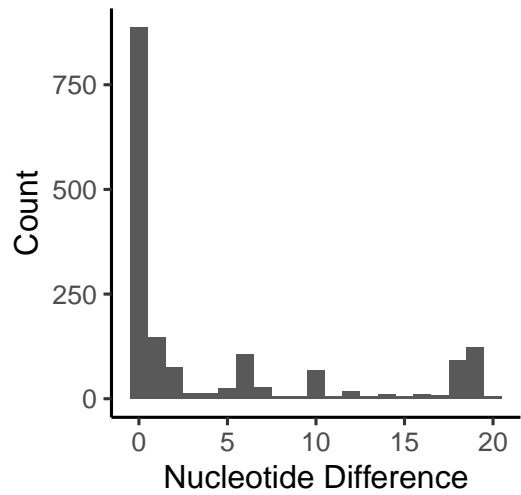
IGHV1-58*01_03

56 sequences assigned
25 (44.6%) exact matches, in which:
23 unique CDR3
5 unique J



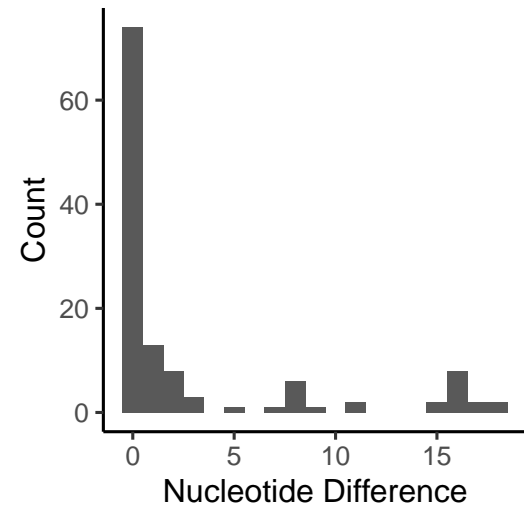
IGHV1-69*01_12_13

1711 sequences assigned
888 (51.9%) exact matches, in which:
868 unique CDR3
6 unique J



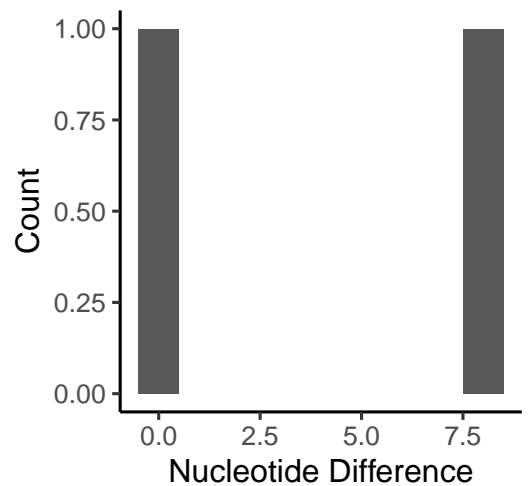
IGHV2-26*01

125 sequences assigned
74 (59.2%) exact matches, in which:
68 unique CDR3
5 unique J



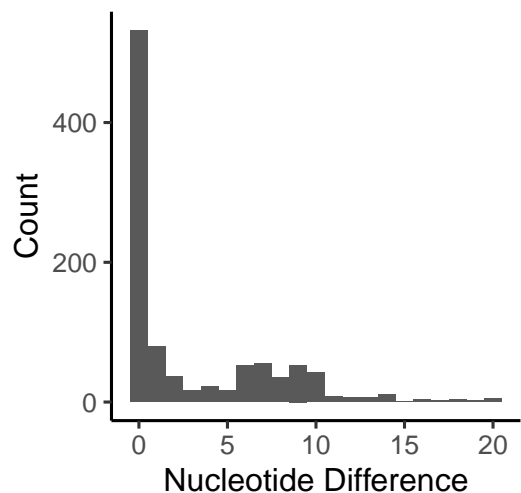
IGHV1-68*02_03

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



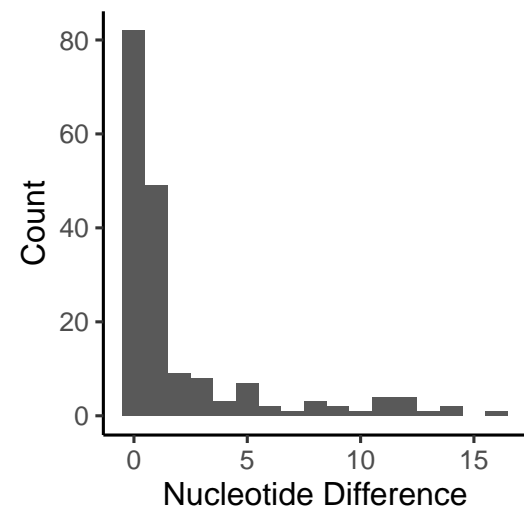
IGHV1-69*06_14

1023 sequences assigned
532 (52%) exact matches, in which:
518 unique CDR3
6 unique J



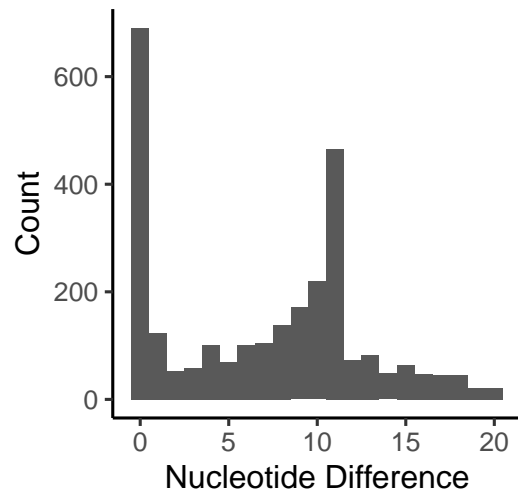
IGHV2-70*01

188 sequences assigned
82 (43.6%) exact matches, in which:
75 unique CDR3
5 unique J



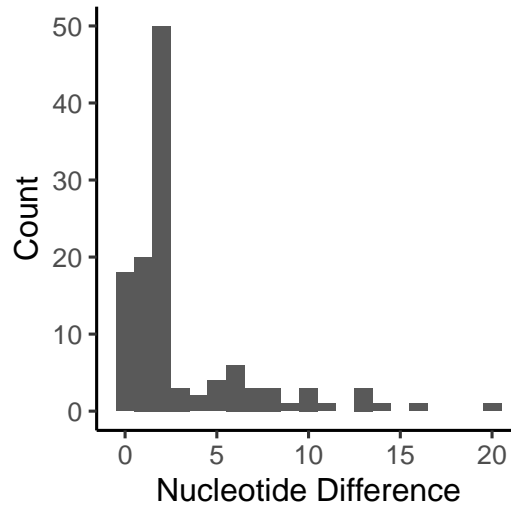
IGHV3-7*01

2949 sequences assigned
691 (23.4%) exact matches, in which:
407 unique CDR3
5 unique J



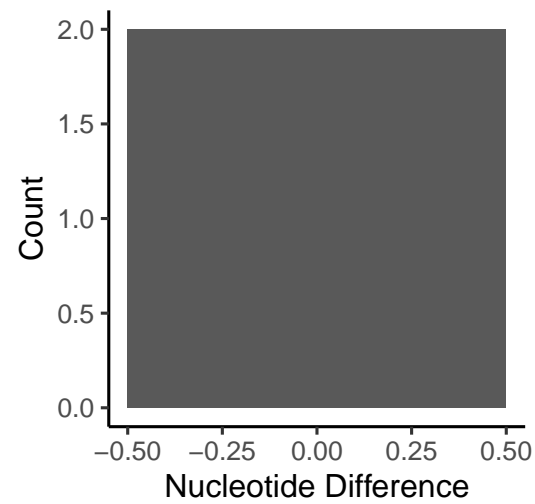
IGHV3-11*04

136 sequences assigned
18 (13.2%) exact matches, in which:
17 unique CDR3
4 unique J



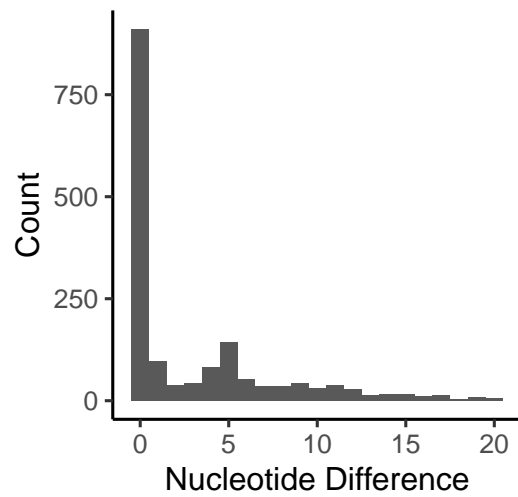
IGHV3-19*01

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



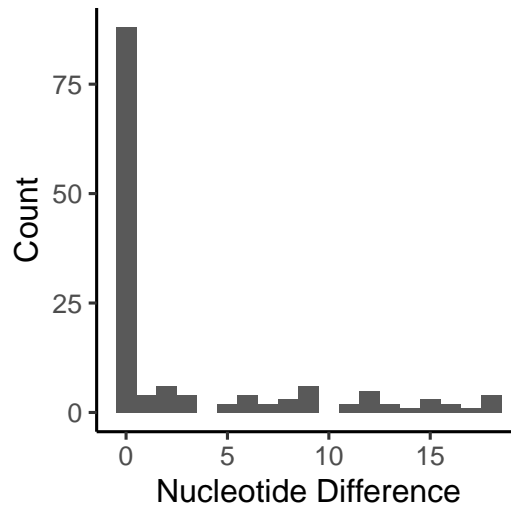
IGHV3-9*01

1852 sequences assigned
911 (49.2%) exact matches, in which:
529 unique CDR3
6 unique J



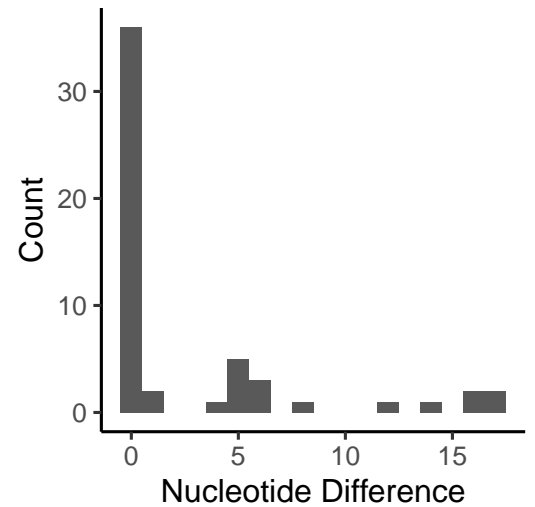
IGHV3-13*01

146 sequences assigned
88 (60.3%) exact matches, in which:
46 unique CDR3
6 unique J



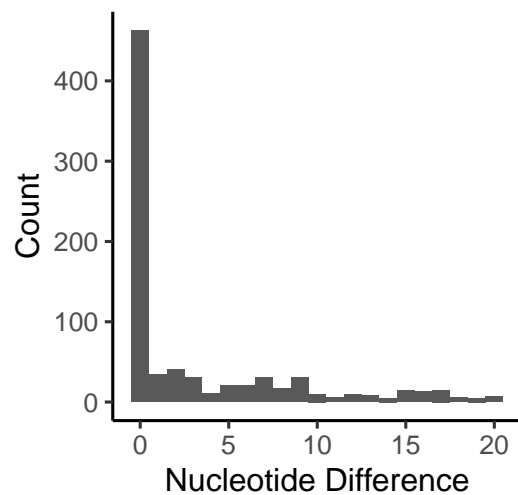
IGHV3-20*01_02

60 sequences assigned
36 (60%) exact matches, in which:
21 unique CDR3
5 unique J



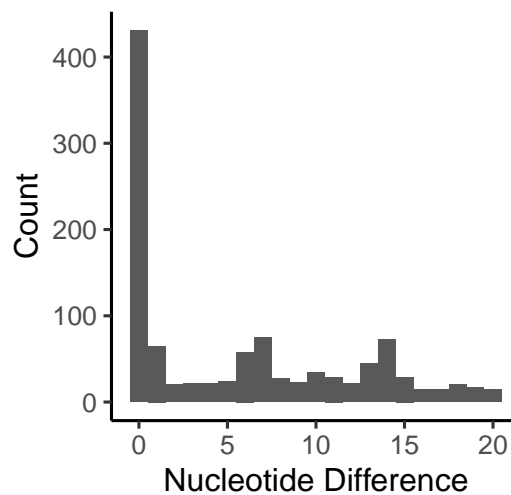
IGHV3-11*01

1511 sequences assigned
463 (30.6%) exact matches, in which:
272 unique CDR3
6 unique J



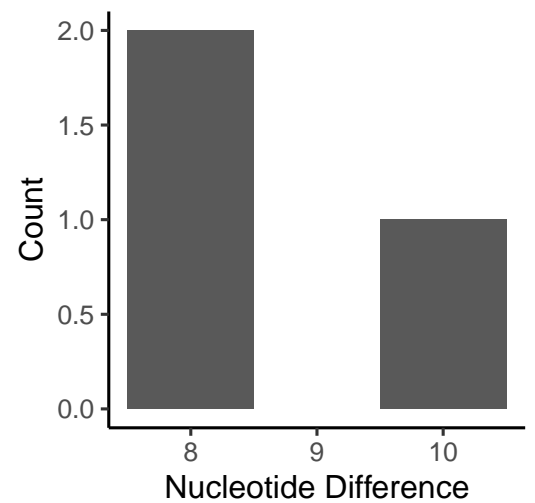
IGHV3-15*01_02

1124 sequences assigned
431 (38.3%) exact matches, in which:
249 unique CDR3
6 unique J



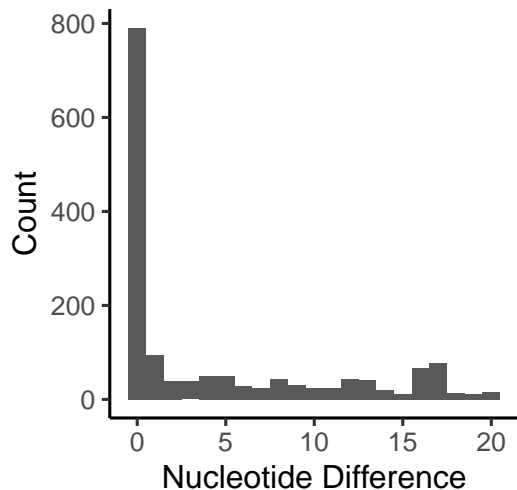
IGHV3-20*03_04

48 sequences assigned
No exact matches.



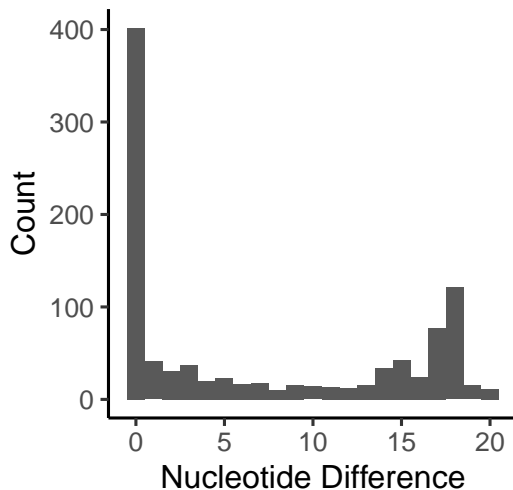
IGHV3–21*01_02

2107 sequences assigned
791 (37.5%) exact matches, in which:
472 unique CDR3
6 unique J



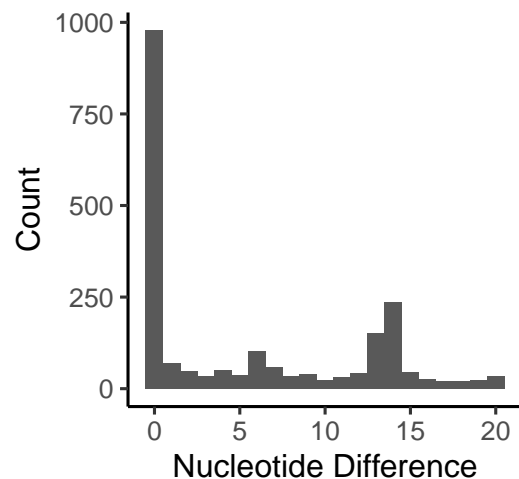
IGHV3–30*01

1072 sequences assigned
402 (37.5%) exact matches, in which:
264 unique CDR3
6 unique J



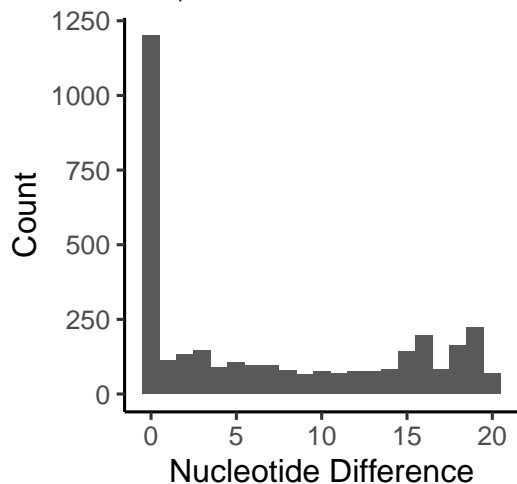
IGHV3–48*03

2476 sequences assigned
978 (39.5%) exact matches, in which:
595 unique CDR3
6 unique J



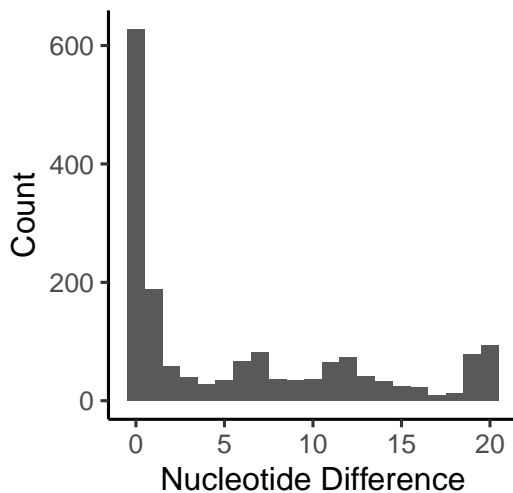
IGHV3–23*01_04

5322 sequences assigned
1200 (22.5%) exact matches, in which:
685 unique CDR3
6 unique J



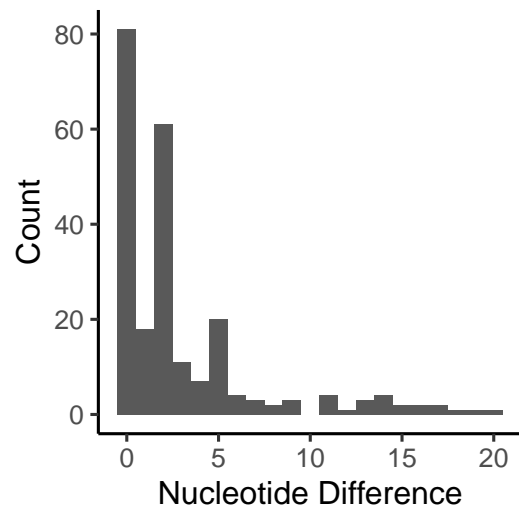
IGHV3–33*01

1873 sequences assigned
628 (33.5%) exact matches, in which:
396 unique CDR3
6 unique J



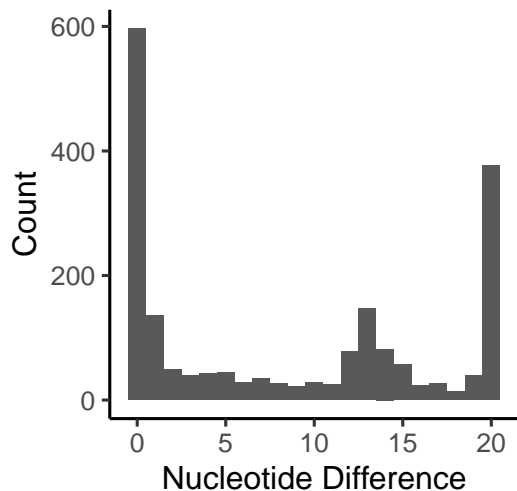
IGHV3–48*03_T303G

239 sequences assigned
81 (33.9%) exact matches, in which:
74 unique CDR3
5 unique J



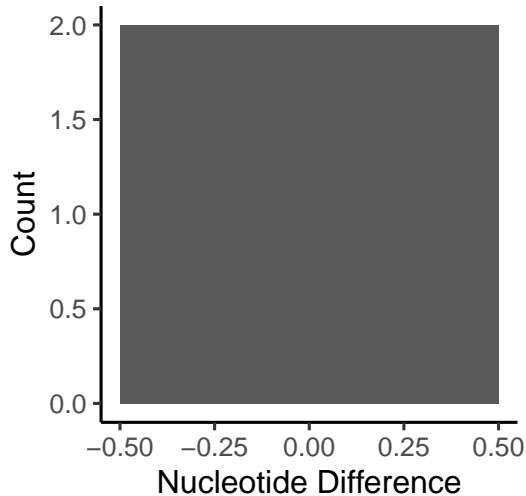
IGHV3–30–3*01

3082 sequences assigned
597 (19.4%) exact matches, in which:
367 unique CDR3
6 unique J



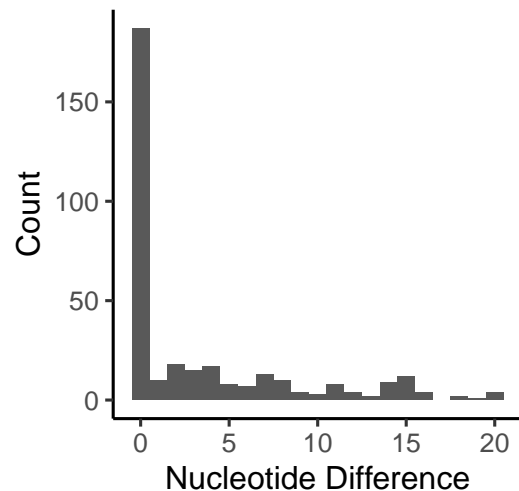
IGHV3–47*01

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



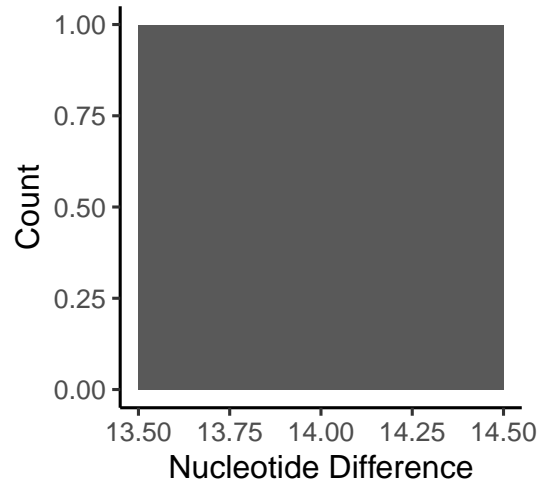
IGHV3–49*04

404 sequences assigned
187 (46.3%) exact matches, in which:
113 unique CDR3
6 unique J



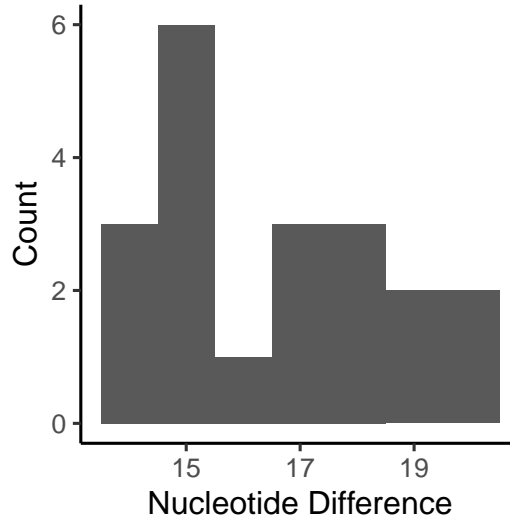
IGHV3-53*05

1 sequences assigned
No exact matches.



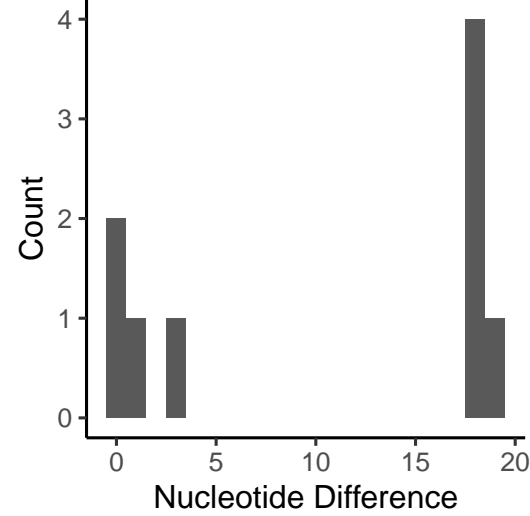
IGHV3-66*01

28 sequences assigned
No exact matches.



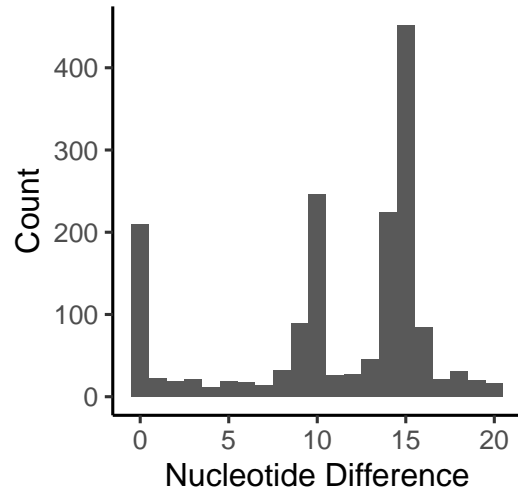
IGHV3-69-1*01

14 sequences assigned
2 (14.3%) exact matches, in which:
1 unique CDR3
1 unique J



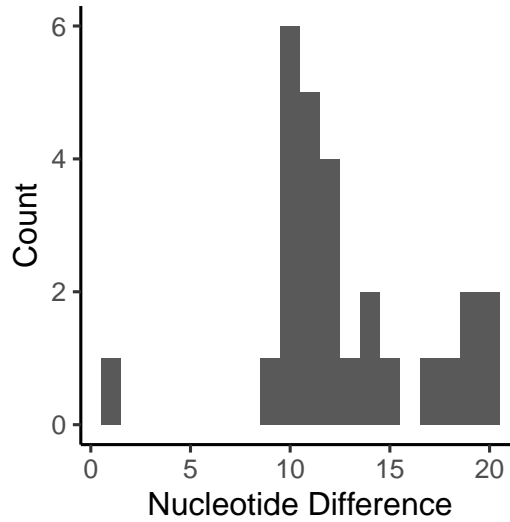
IGHV3-53*01_02

1692 sequences assigned
210 (12.4%) exact matches, in which:
118 unique CDR3
6 unique J



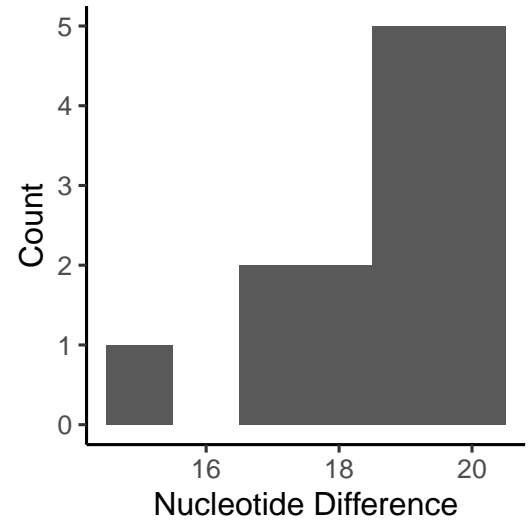
IGHV3-66*02

27 sequences assigned
No exact matches.



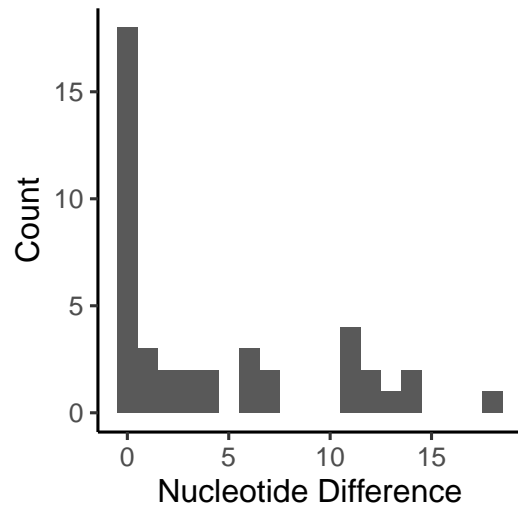
IGHV3-69-1*02

39 sequences assigned
No exact matches.



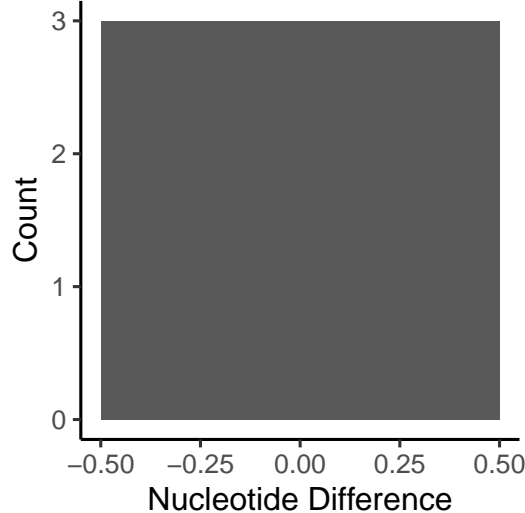
IGHV3-64*01

47 sequences assigned
18 (38.3%) exact matches, in which:
12 unique CDR3
3 unique J



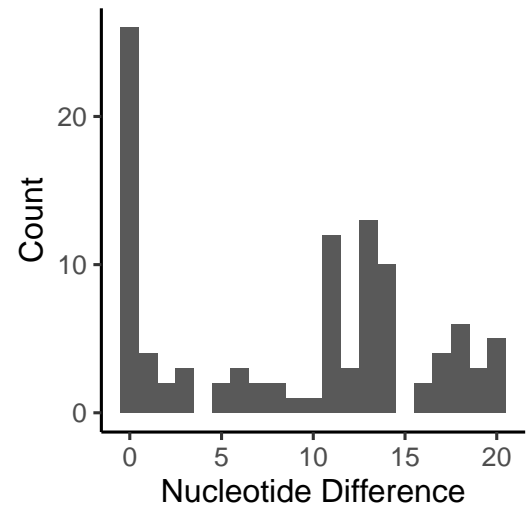
IGHV3-66*03

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



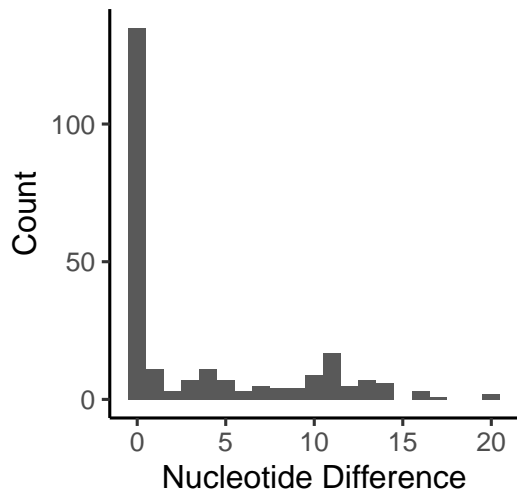
IGHV3-72*01

117 sequences assigned
26 (22.2%) exact matches, in which:
15 unique CDR3
4 unique J



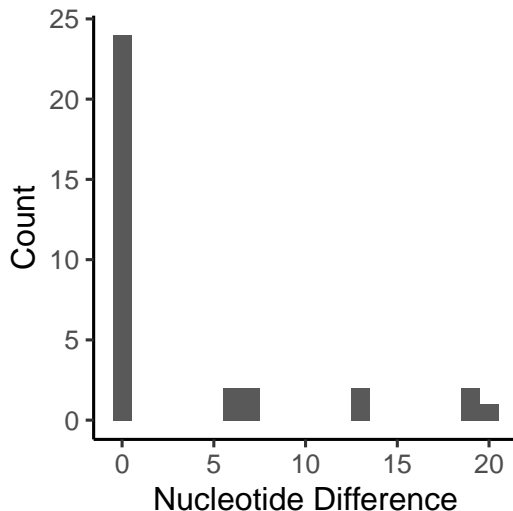
IGHV3-73*01_02

252 sequences assigned
135 (53.6%) exact matches, in which:
73 unique CDR3
5 unique J



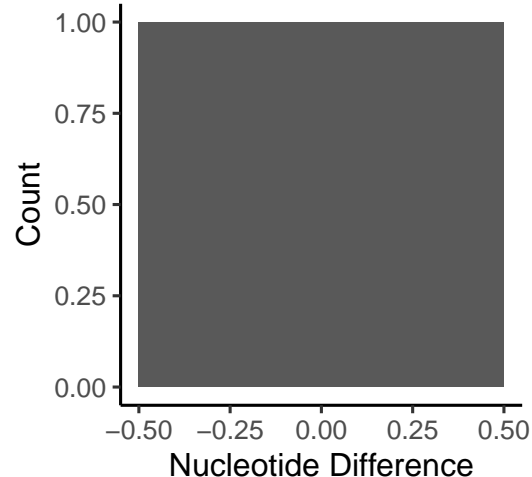
IGHV3-43D*04

73 sequences assigned
24 (32.9%) exact matches, in which:
15 unique CDR3
4 unique J



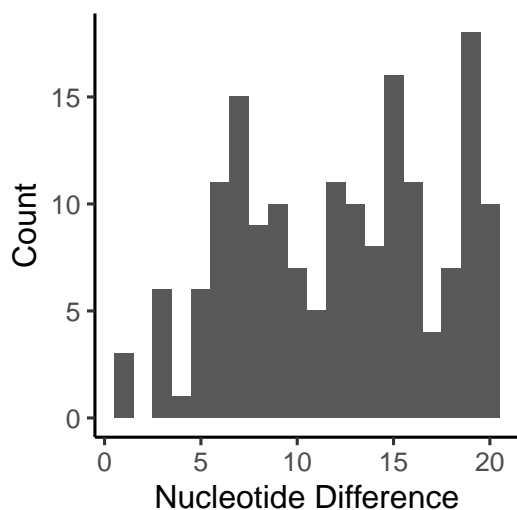
IGHV4-28*02_05

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



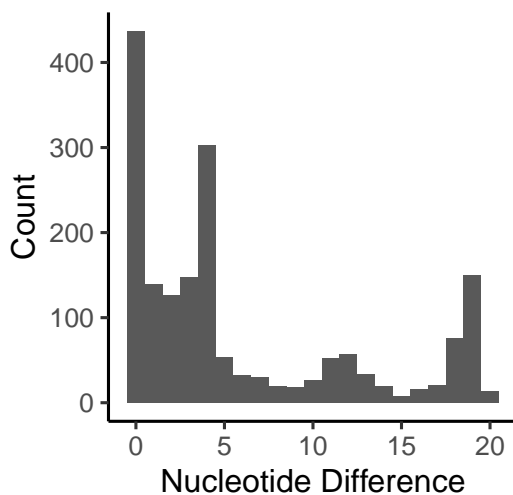
IGHV3-74*03

240 sequences assigned
No exact matches.



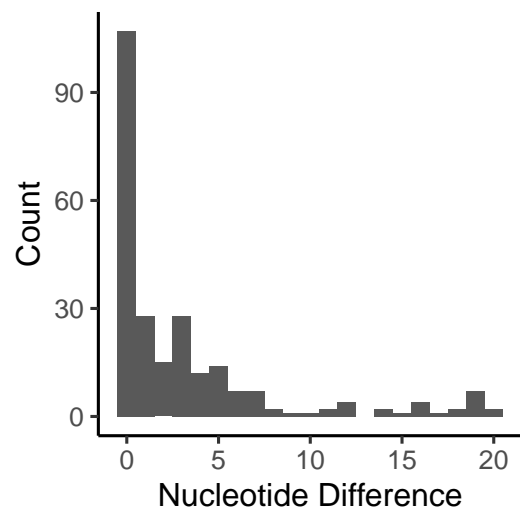
IGHV4-4*02_03

1880 sequences assigned
437 (23.2%) exact matches, in which:
337 unique CDR3
6 unique J



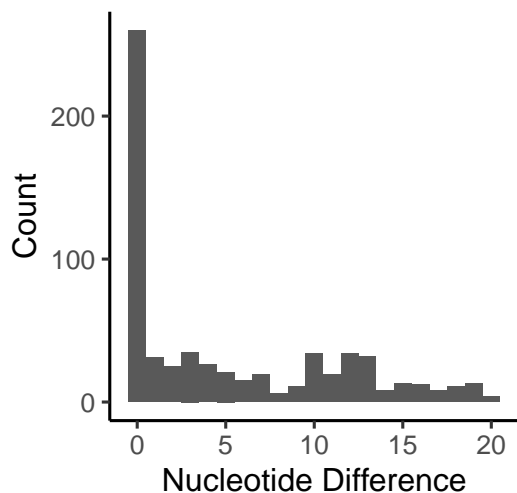
IGHV4-30-4*01

704 sequences assigned
107 (15.2%) exact matches, in which:
102 unique CDR3
5 unique J



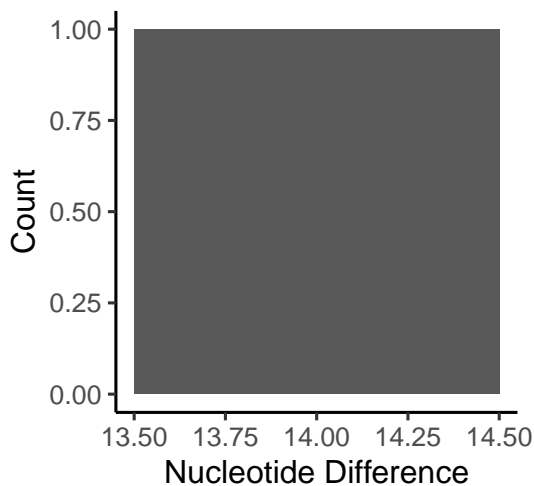
IGHV3-74*01_02

828 sequences assigned
260 (31.4%) exact matches, in which:
142 unique CDR3
6 unique J



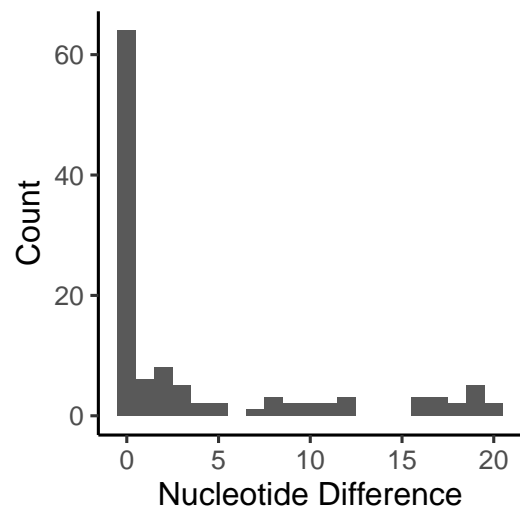
IGHV4-28*03

1 sequences assigned
No exact matches.



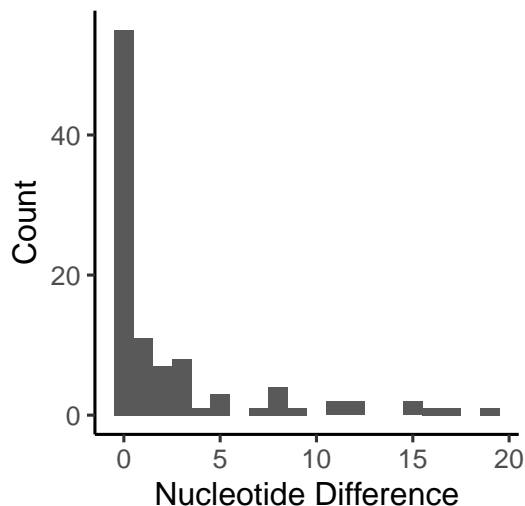
IGHV4-30-2*01

149 sequences assigned
64 (43%) exact matches, in which:
45 unique CDR3
5 unique J



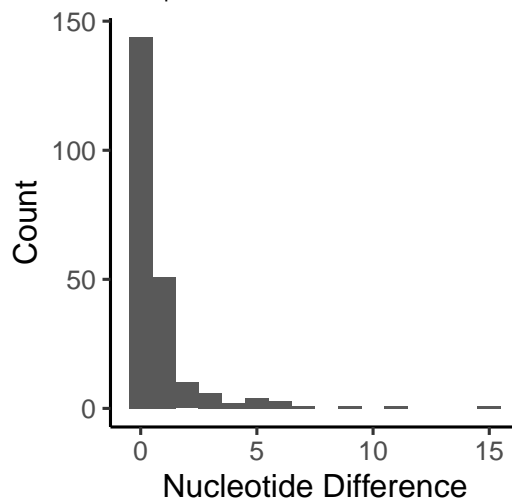
IGHV4-31*01

177 sequences assigned
55 (31.1%) exact matches, in which:
51 unique CDR3
5 unique J



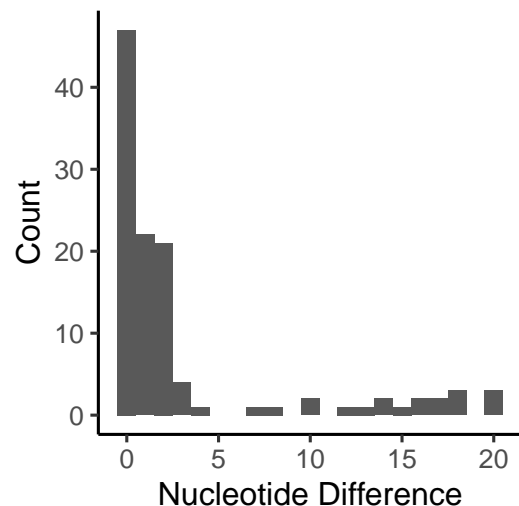
IGHV4-34*01_02_C288T

224 sequences assigned
144 (64.3%) exact matches, in which:
139 unique CDR3
6 unique J



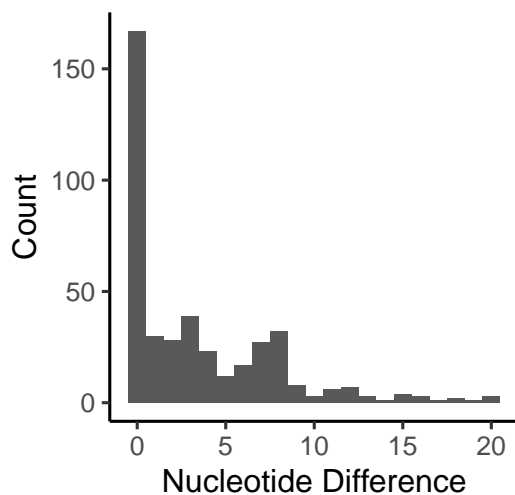
IGHV4-39*07_A103G_G1

119 sequences assigned
47 (39.5%) exact matches, in which:
41 unique CDR3
5 unique J



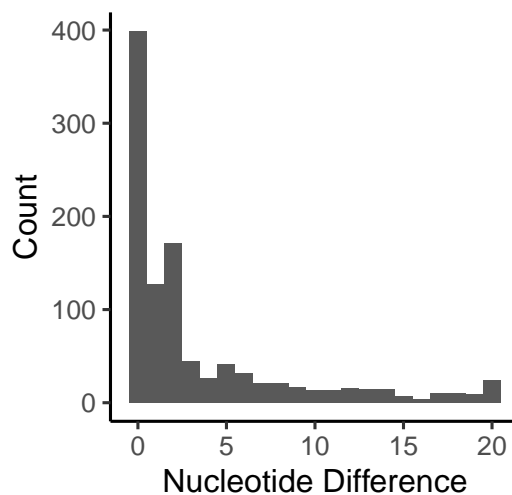
IGHV4-31*02

438 sequences assigned
167 (38.1%) exact matches, in which:
151 unique CDR3
5 unique J



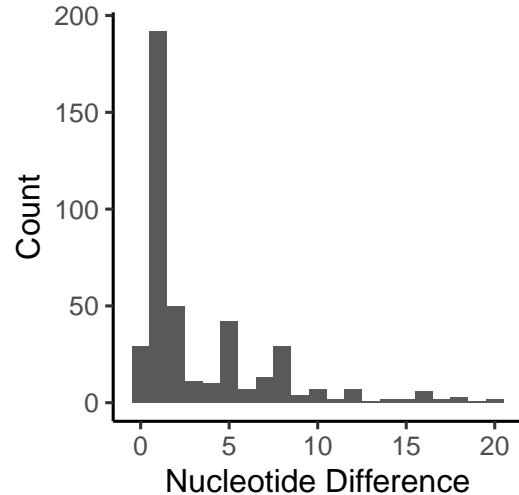
IGHV4-38-2*02_A70G

1625 sequences assigned
399 (24.6%) exact matches, in which:
296 unique CDR3
6 unique J



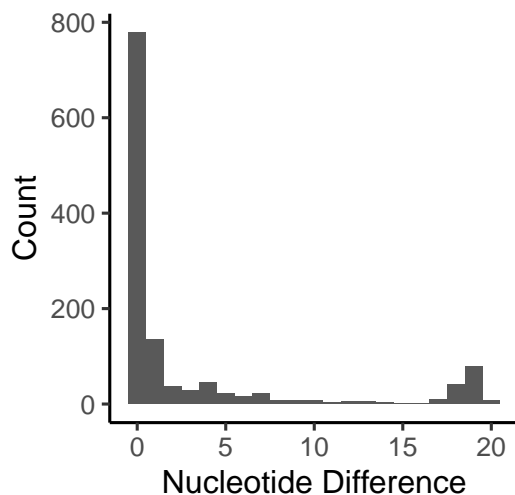
IGHV4-59*12

715 sequences assigned
29 (4.1%) exact matches, in which:
29 unique CDR3
4 unique J



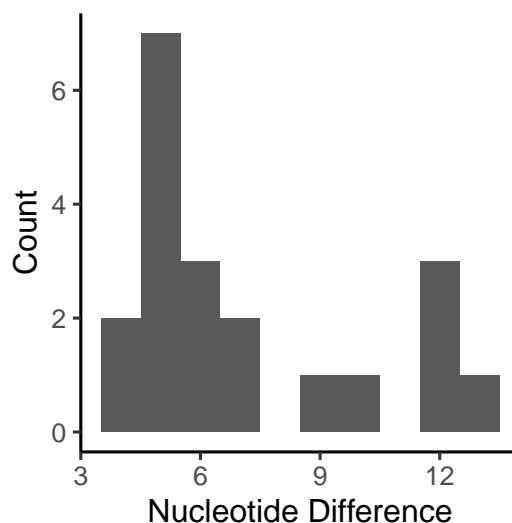
IGHV4-34*01_02

1363 sequences assigned
779 (57.2%) exact matches, in which:
574 unique CDR3
6 unique J



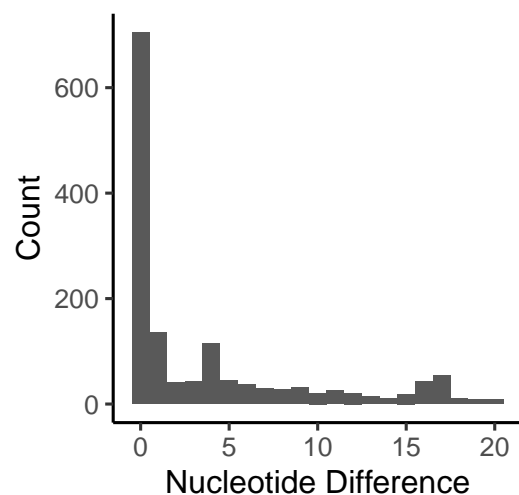
IGHV4-39*07

36 sequences assigned
No exact matches.



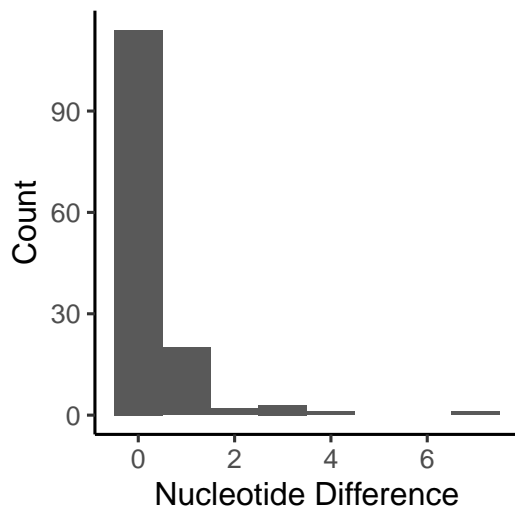
IGHV4-59*02_G88A

1517 sequences assigned
705 (46.5%) exact matches, in which:
653 unique CDR3
6 unique J



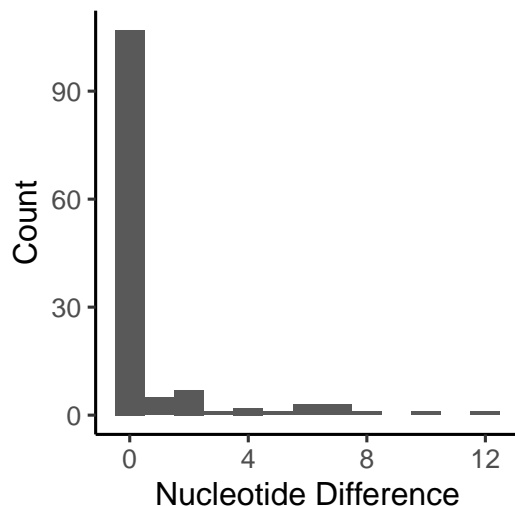
IGHV4-59*12_C300T

141 sequences assigned
114 (80.9%) exact matches, in which:
114 unique CDR3
6 unique J



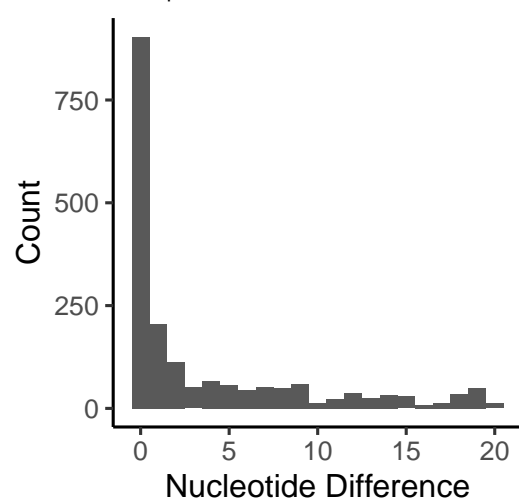
IGHV4-61*02_C288T_A29

133 sequences assigned
107 (80.5%) exact matches, in which:
107 unique CDR3
6 unique J



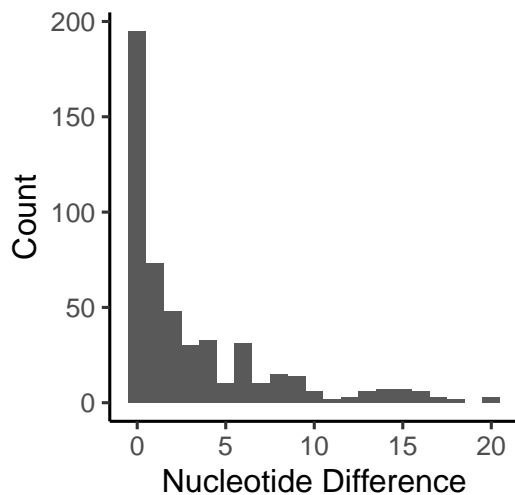
IGHV5-51*07_A128G

2408 sequences assigned
904 (37.5%) exact matches, in which:
466 unique CDR3
6 unique J



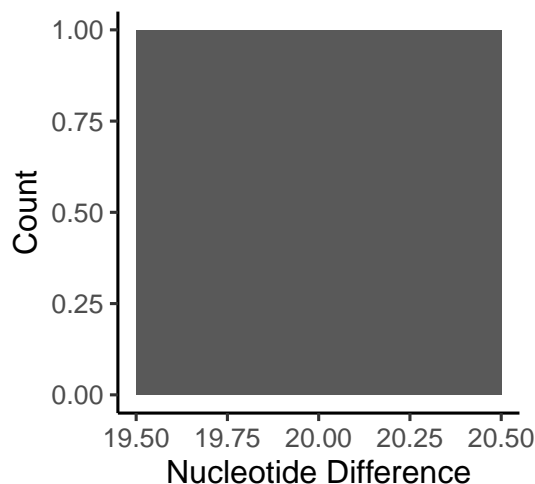
IGHV4-61*01

786 sequences assigned
195 (24.8%) exact matches, in which:
191 unique CDR3
6 unique J



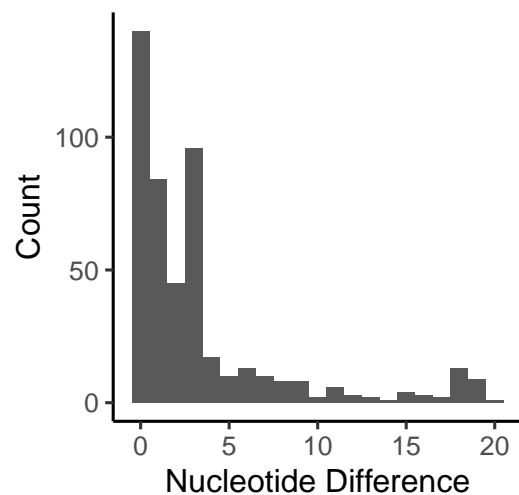
IGHV1/OR15-2*02_03

1 sequences assigned
No exact matches.



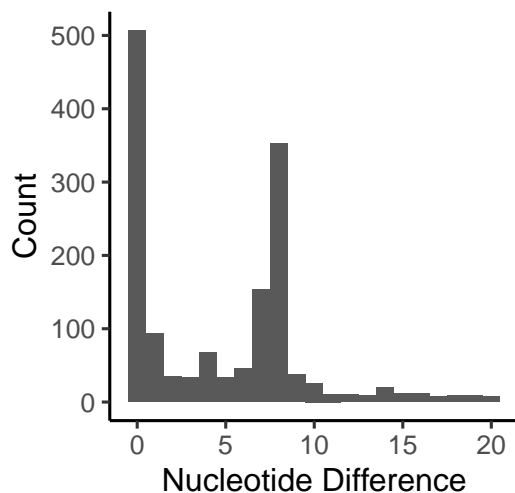
IGHV6-1*01_02

499 sequences assigned
140 (28.1%) exact matches, in which:
128 unique CDR3
5 unique J



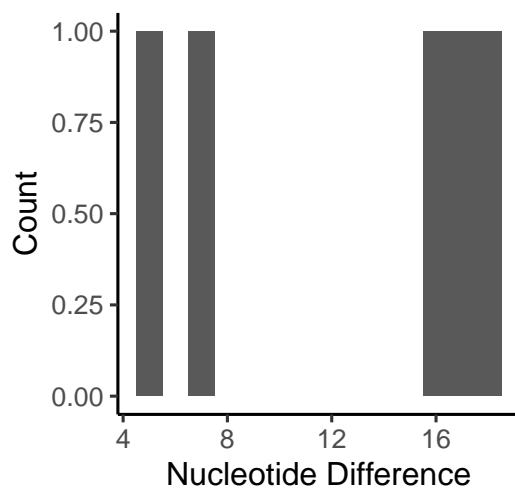
IGHV4-61*02

1815 sequences assigned
507 (27.9%) exact matches, in which:
420 unique CDR3
6 unique J



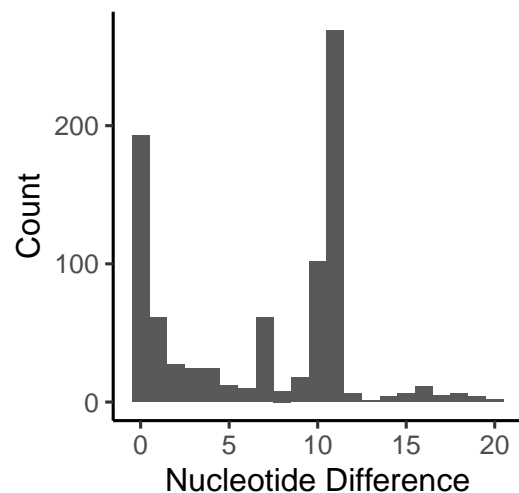
IGHV4/OR15-8*01

6 sequences assigned
No exact matches.



IGHV7-4-1*02

862 sequences assigned
193 (22.4%) exact matches, in which:
179 unique CDR3
6 unique J





Warning – no inferred sequences found.