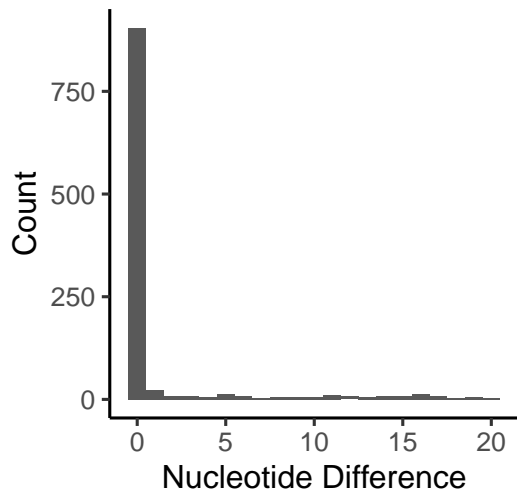


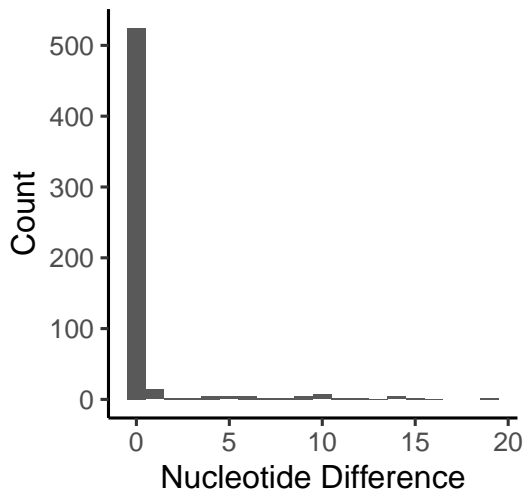
IGHV1-2*02

1120 sequences assigned
905 (80.8%) exact matches, in which:
905 unique CDR3
6 unique J



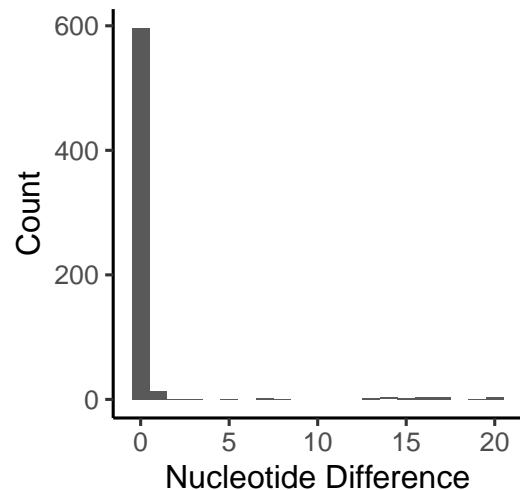
IGHV1-8*01

600 sequences assigned
525 (87.5%) exact matches, in which:
525 unique CDR3
6 unique J



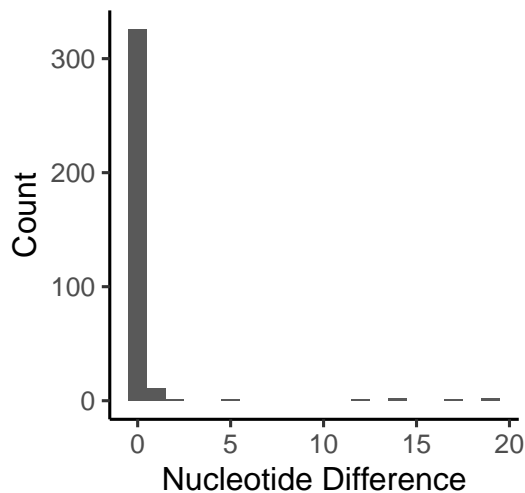
IGHV1-24*01

653 sequences assigned
597 (91.4%) exact matches, in which:
596 unique CDR3
6 unique J



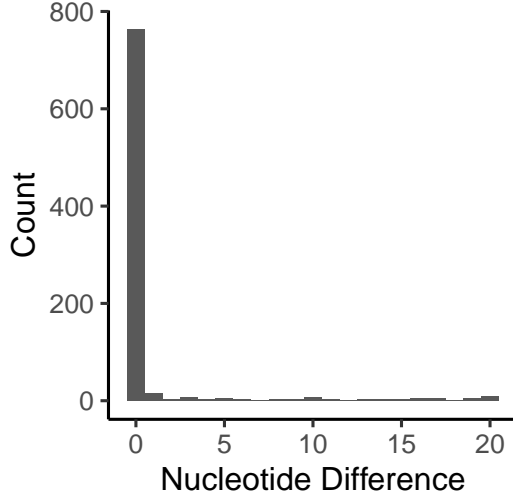
IGHV1-2*04

350 sequences assigned
326 (93.1%) exact matches, in which:
326 unique CDR3
5 unique J



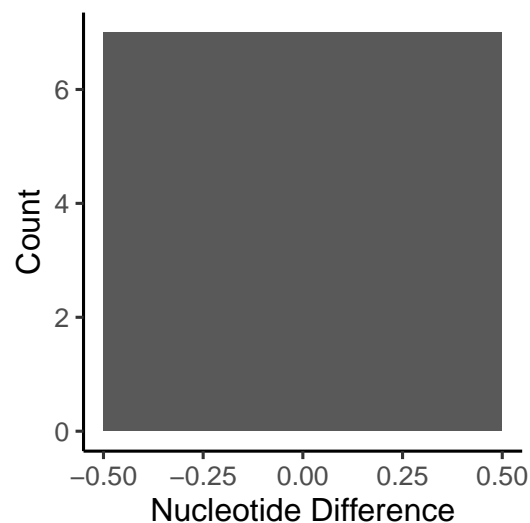
IGHV1-18*01

892 sequences assigned
764 (85.7%) exact matches, in which:
764 unique CDR3
6 unique J



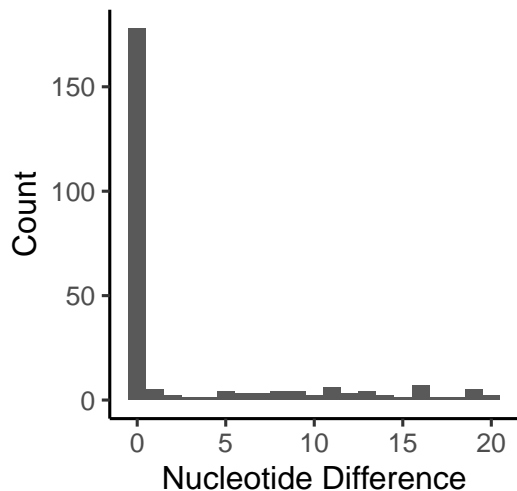
IGHV1-45*02

7 sequences assigned
7 (100%) exact matches, in which:
7 unique CDR3
3 unique J



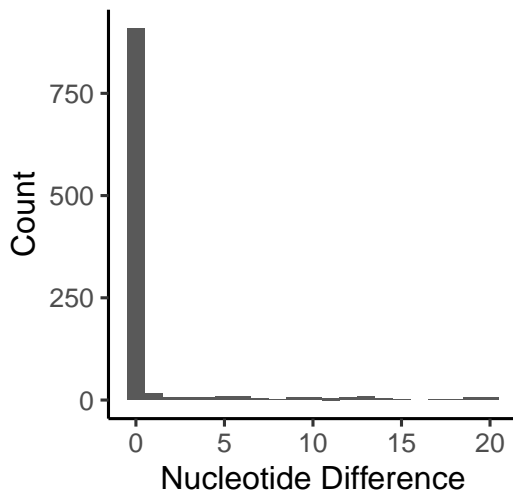
IGHV1-3*01_05

262 sequences assigned
178 (67.9%) exact matches, in which:
178 unique CDR3
6 unique J



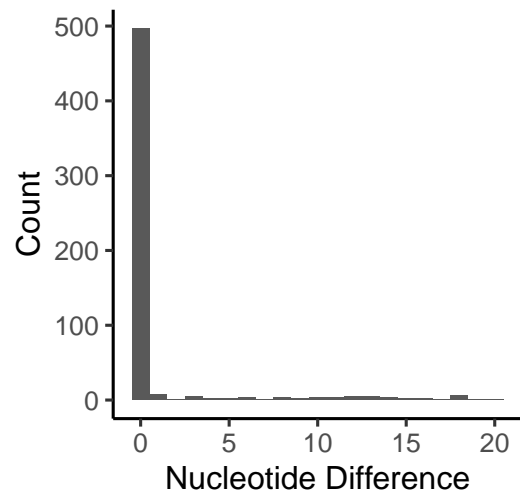
IGHV1-18*04

1048 sequences assigned
909 (86.7%) exact matches, in which:
908 unique CDR3
6 unique J



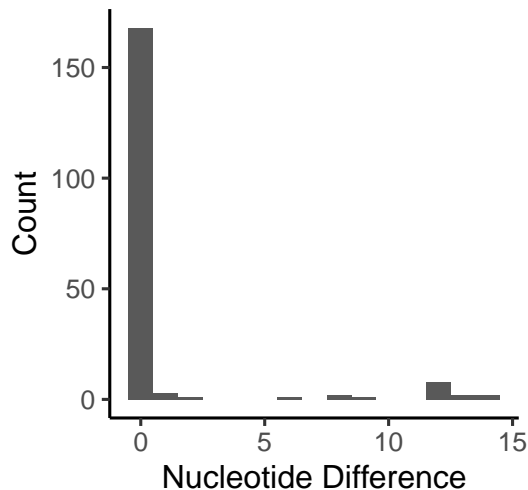
IGHV1-46*01

590 sequences assigned
497 (84.2%) exact matches, in which:
497 unique CDR3
6 unique J



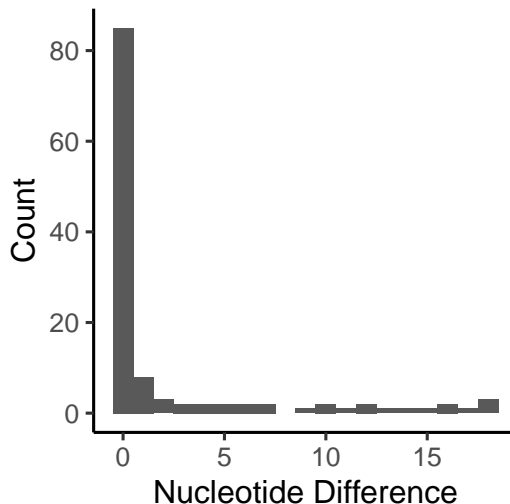
IGHV1–58*01_03

189 sequences assigned
168 (88.9%) exact matches, in which:
168 unique CDR3
5 unique J



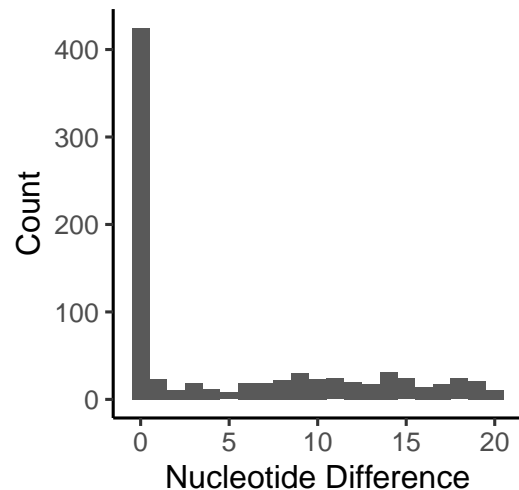
IGHV2–5*02

133 sequences assigned
85 (63.9%) exact matches, in which:
85 unique CDR3
6 unique J



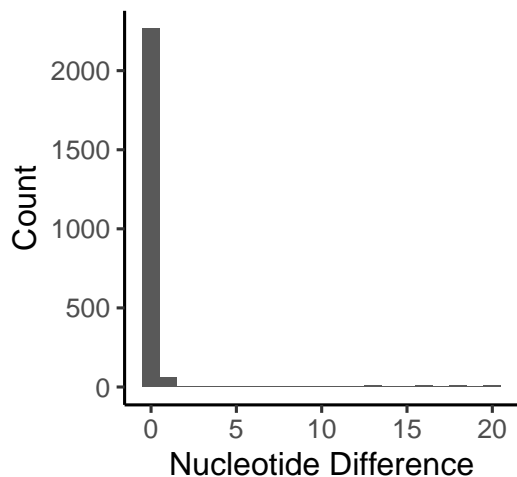
IGHV3–7*01

912 sequences assigned
425 (46.6%) exact matches, in which:
421 unique CDR3
6 unique J



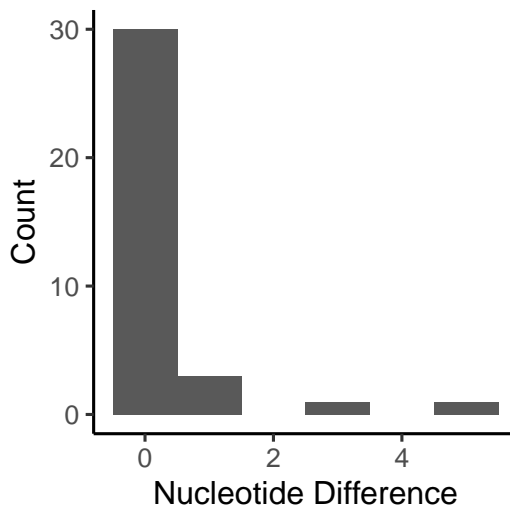
IGHV1–69*01_12_13

2484 sequences assigned
2265 (91.2%) exact matches, in which:
2265 unique CDR3
6 unique J



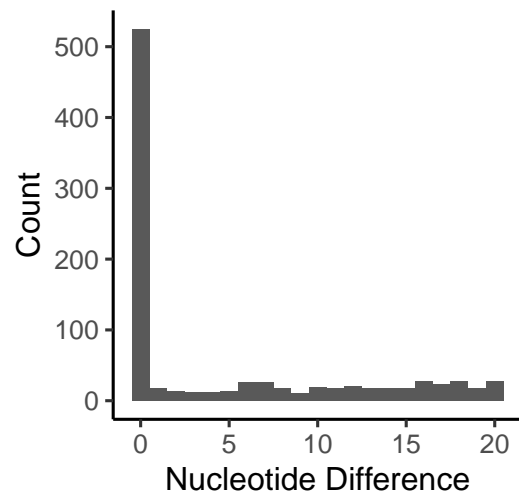
IGHV2–26*01

35 sequences assigned
30 (85.7%) exact matches, in which:
30 unique CDR3
5 unique J



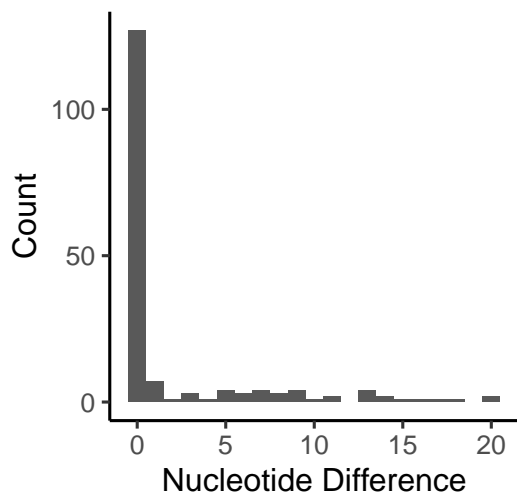
IGHV3–7*03

972 sequences assigned
525 (54%) exact matches, in which:
521 unique CDR3
6 unique J



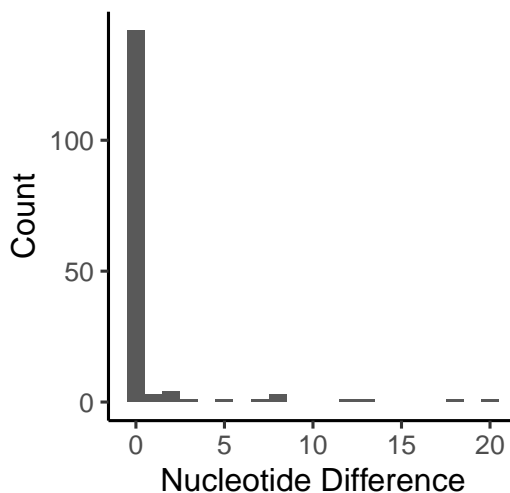
IGHV2–5*01

177 sequences assigned
127 (71.8%) exact matches, in which:
127 unique CDR3
6 unique J



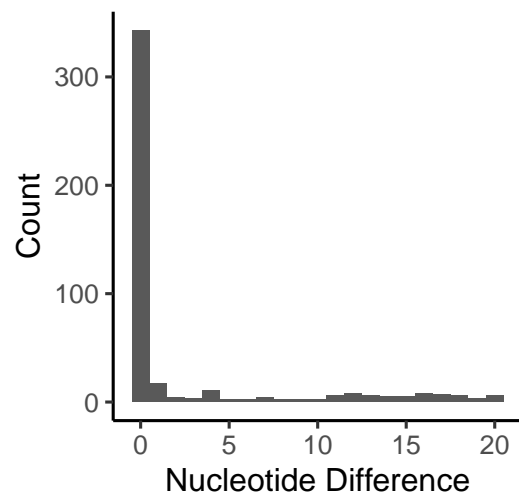
IGHV2–70*01

163 sequences assigned
142 (87.1%) exact matches, in which:
142 unique CDR3
5 unique J



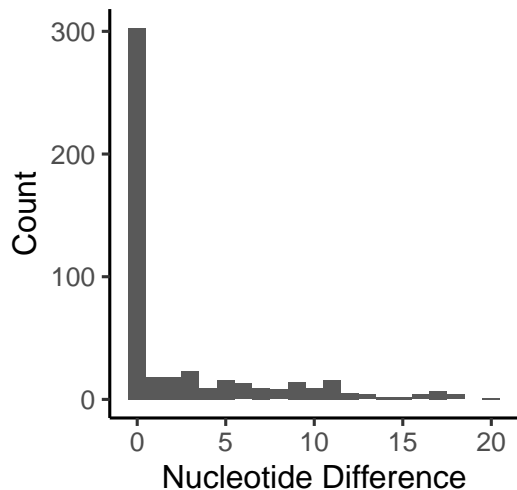
IGHV3–9*01

489 sequences assigned
343 (70.1%) exact matches, in which:
339 unique CDR3
6 unique J



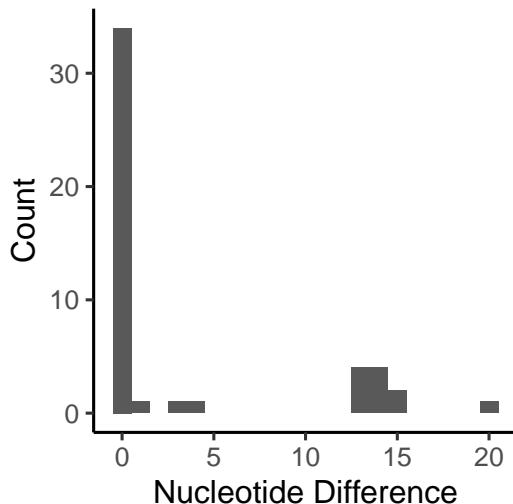
IGHV3-11*01

515 sequences assigned
303 (58.8%) exact matches, in which:
303 unique CDR3
6 unique J



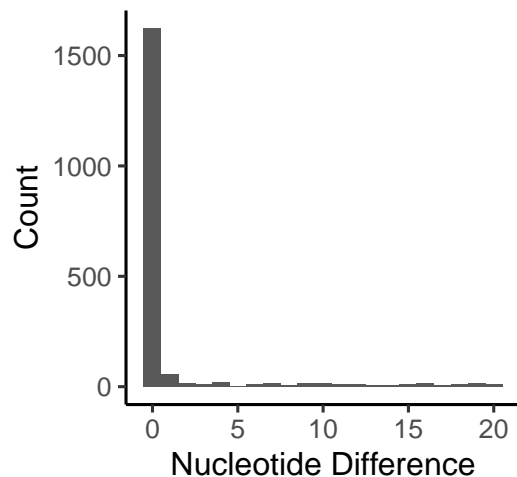
IGHV3-13*05

52 sequences assigned
34 (65.4%) exact matches, in which:
33 unique CDR3
5 unique J



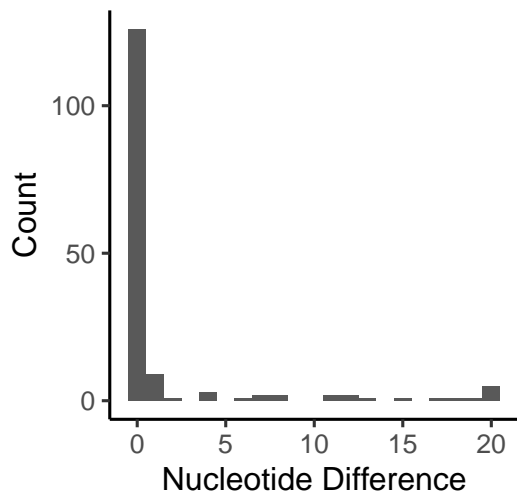
IGHV3-21*01_02

2022 sequences assigned
1623 (80.3%) exact matches, in which:
1604 unique CDR3
6 unique J



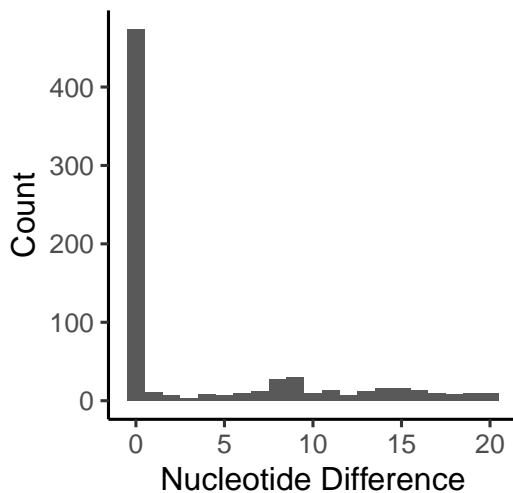
IGHV3-11*06

179 sequences assigned
126 (70.4%) exact matches, in which:
124 unique CDR3
5 unique J



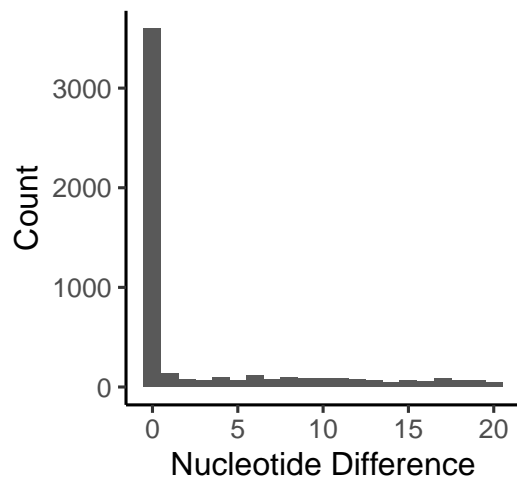
IGHV3-15*01_02

791 sequences assigned
474 (59.9%) exact matches, in which:
473 unique CDR3
6 unique J



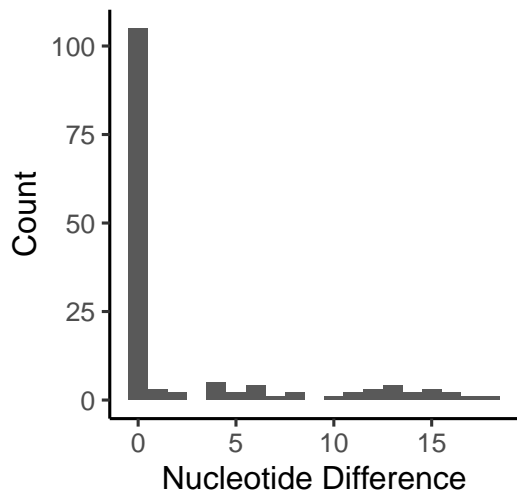
IGHV3-23*01_04

5591 sequences assigned
3596 (64.3%) exact matches, in which:
3569 unique CDR3
6 unique J



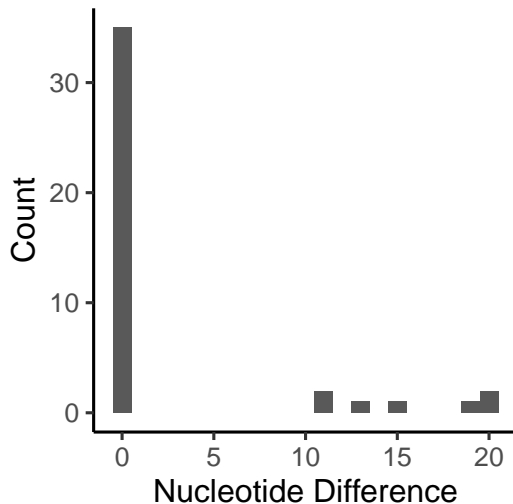
IGHV3-13*01

148 sequences assigned
105 (70.9%) exact matches, in which:
104 unique CDR3
6 unique J



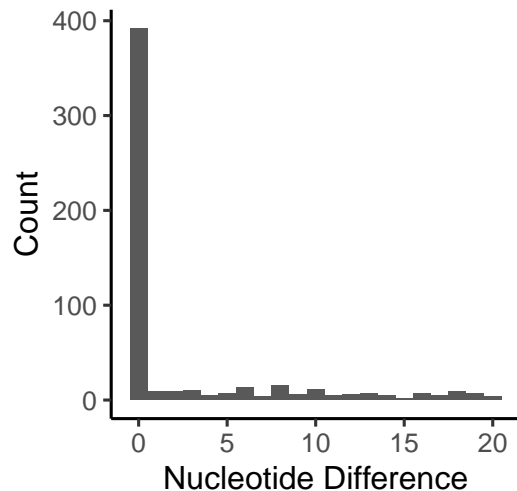
IGHV3-20*01_02

56 sequences assigned
35 (62.5%) exact matches, in which:
35 unique CDR3
5 unique J



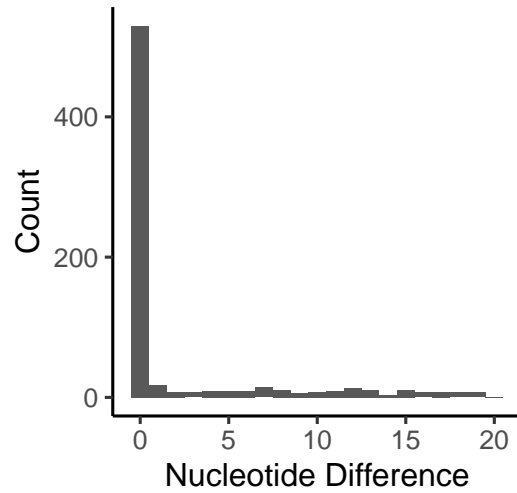
IGHV3-33*01

566 sequences assigned
392 (69.3%) exact matches, in which:
391 unique CDR3
6 unique J



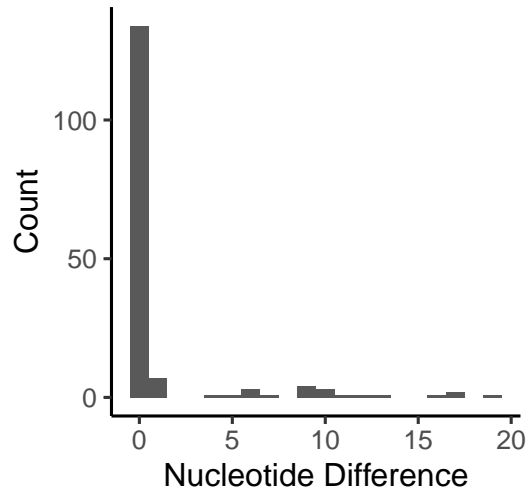
IGHV3–33*08

740 sequences assigned
530 (71.6%) exact matches, in which:
527 unique CDR3
6 unique J



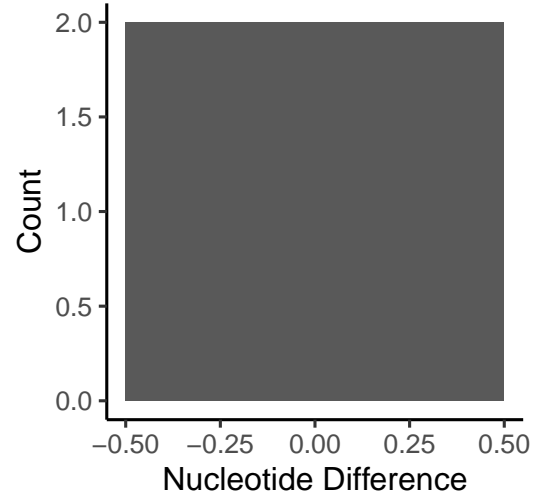
IGHV3–49*03_05

179 sequences assigned
134 (74.9%) exact matches, in which:
134 unique CDR3
6 unique J



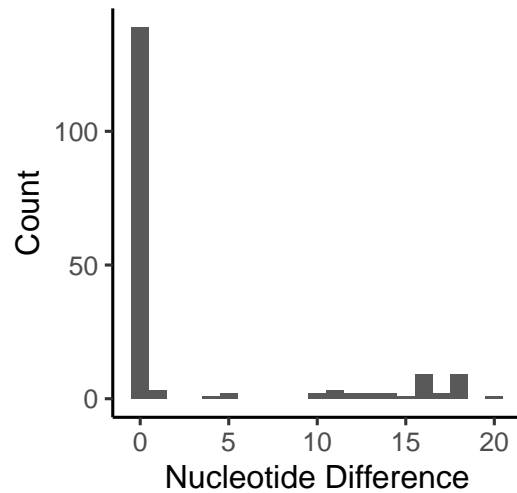
IGHV3–66*03

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



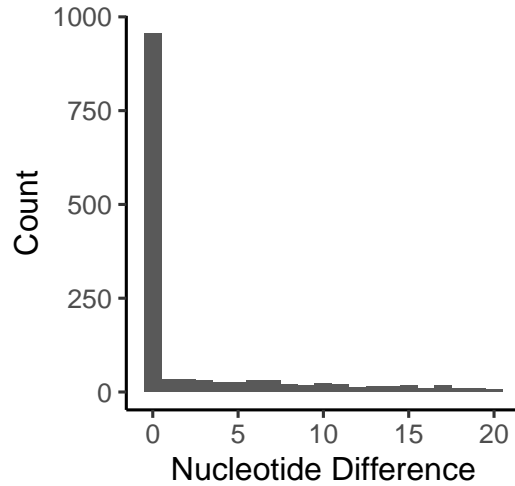
IGHV3–43*01

231 sequences assigned
139 (60.2%) exact matches, in which:
137 unique CDR3
6 unique J



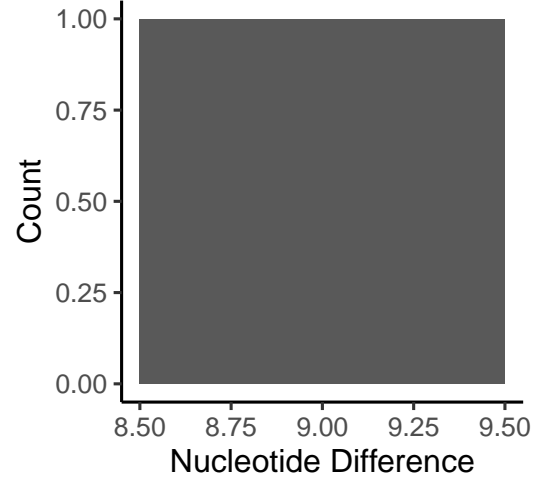
IGHV3–53*01_02

1443 sequences assigned
955 (66.2%) exact matches, in which:
937 unique CDR3
6 unique J



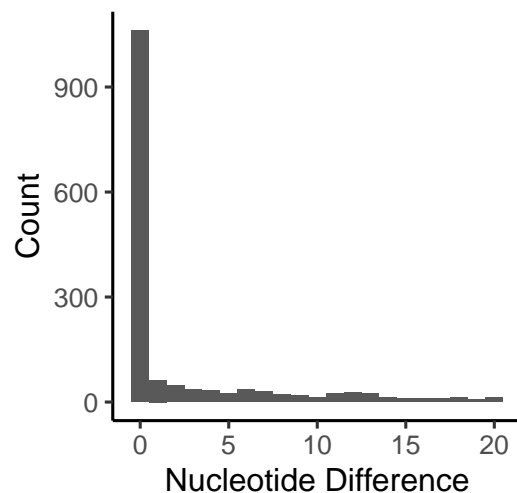
IGHV3–69–1*02

3 sequences assigned
No exact matches.



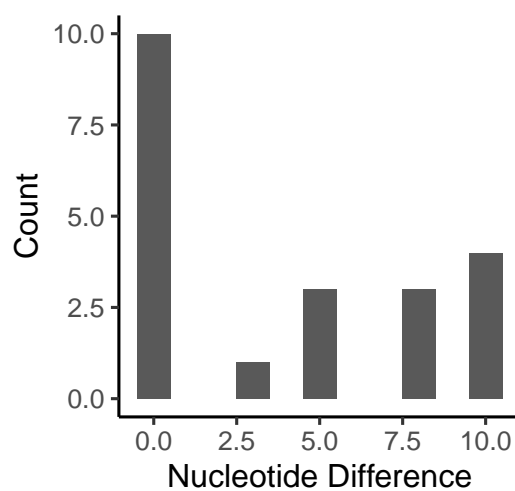
IGHV3–48*02

1623 sequences assigned
1062 (65.4%) exact matches, in which:
1052 unique CDR3
6 unique J



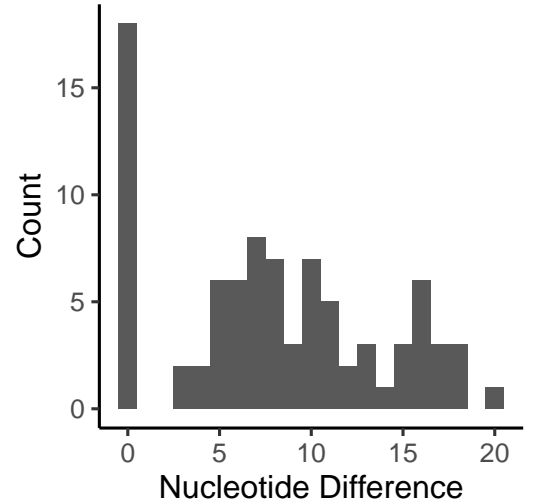
IGHV3–64*02_07

21 sequences assigned
10 (47.6%) exact matches, in which:
10 unique CDR3
4 unique J



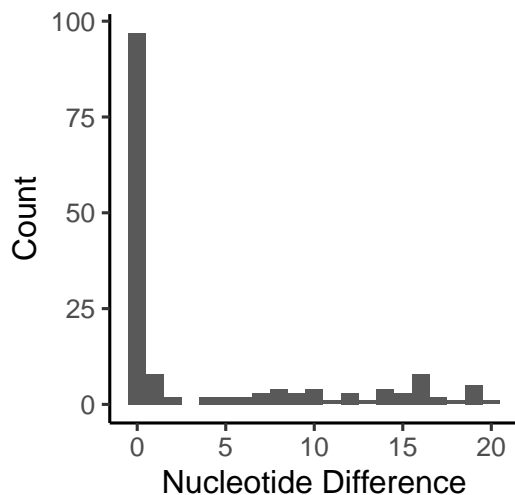
IGHV3–72*01

98 sequences assigned
18 (18.4%) exact matches, in which:
18 unique CDR3
5 unique J



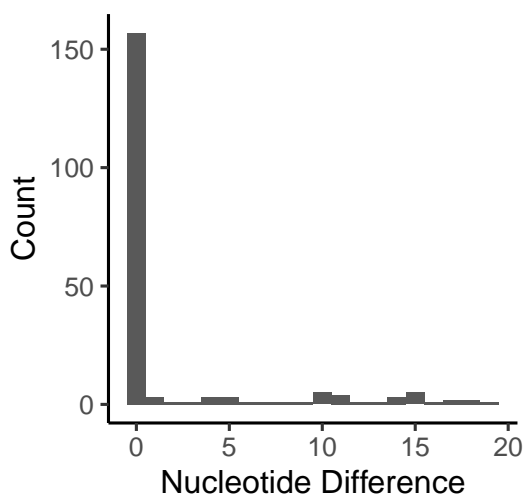
IGHV3-73*01_02

176 sequences assigned
97 (55.1%) exact matches, in which:
96 unique CDR3
5 unique J



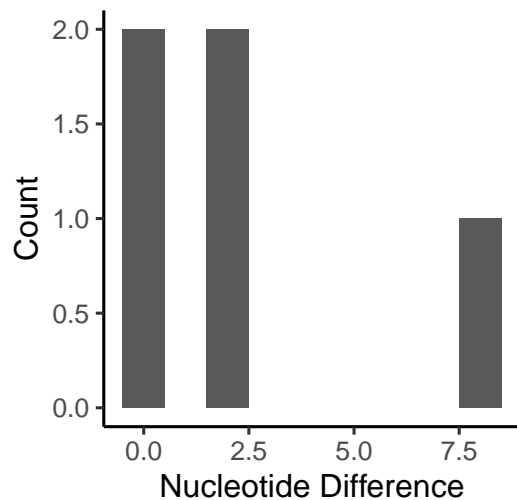
IGHV3-64D*06

205 sequences assigned
157 (76.6%) exact matches, in which:
156 unique CDR3
6 unique J



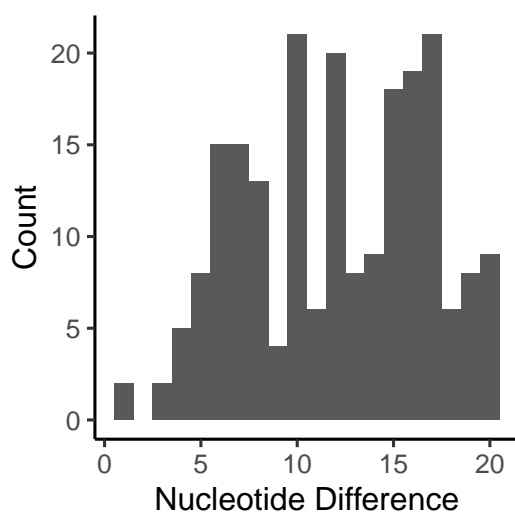
IGHV4-28*01_07

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



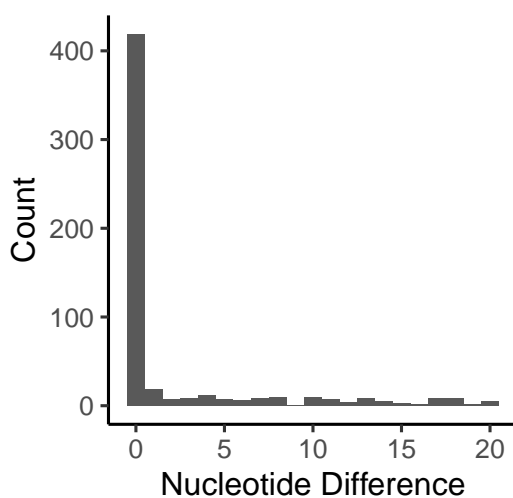
IGHV3-74*03

249 sequences assigned
No exact matches.



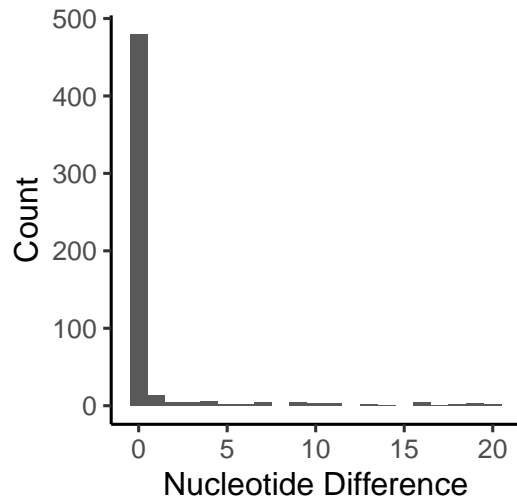
IGHV4-4*07

610 sequences assigned
419 (68.7%) exact matches, in which:
416 unique CDR3
6 unique J



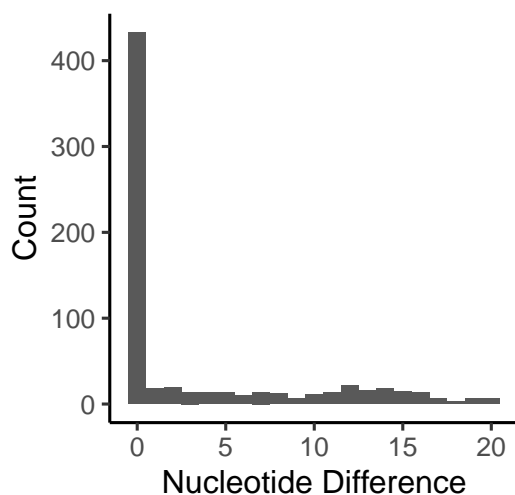
IGHV4-31*02

587 sequences assigned
480 (81.8%) exact matches, in which:
477 unique CDR3
6 unique J



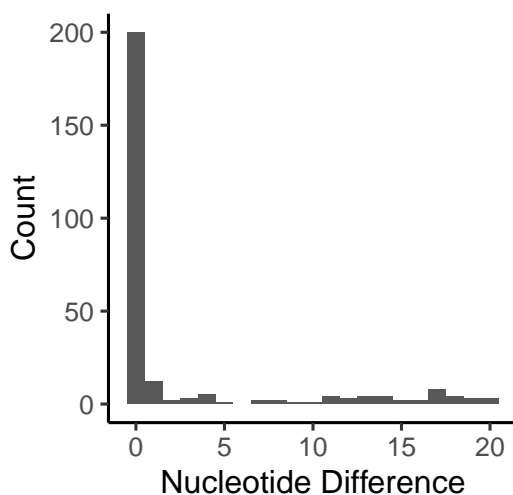
IGHV3-74*01_02

706 sequences assigned
433 (61.3%) exact matches, in which:
427 unique CDR3
6 unique J



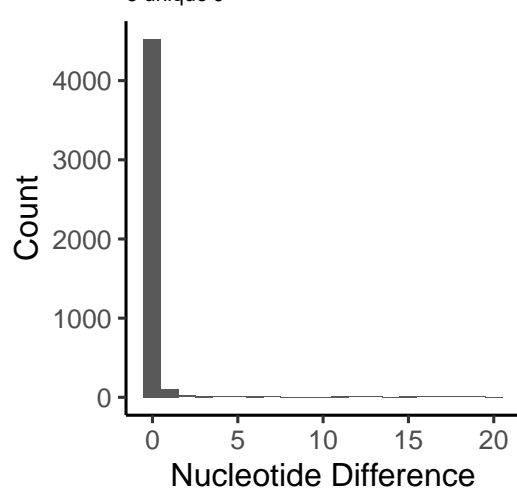
IGHV4-4*02_03

293 sequences assigned
200 (68.3%) exact matches, in which:
200 unique CDR3
6 unique J



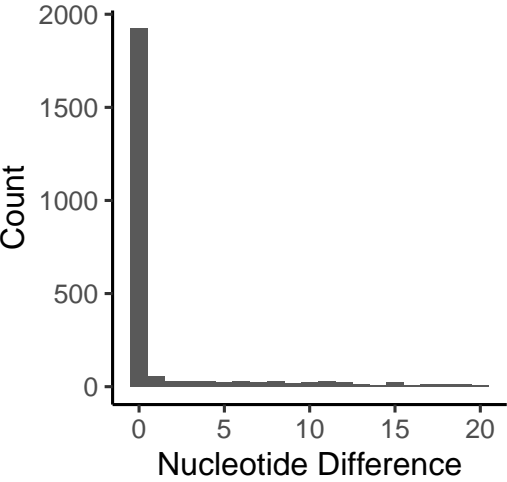
IGHV4-34*01_02

4886 sequences assigned
4525 (92.6%) exact matches, in which:
4498 unique CDR3
6 unique J



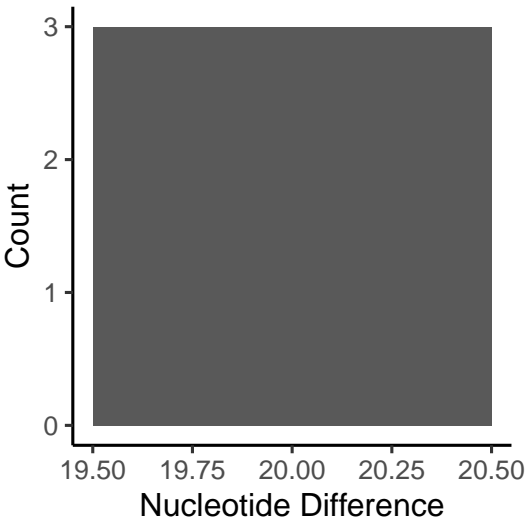
IGHV4–39*02_C258G

2528 sequences assigned
1924 (76.1%) exact matches, in which:
1919 unique CDR3
6 unique J



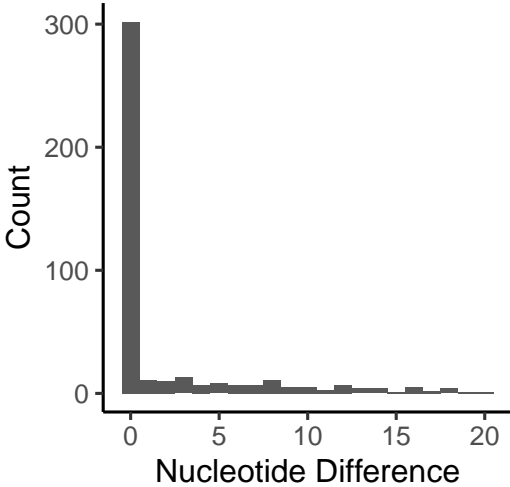
IGHV4/OR15–8*02

3 sequences assigned
No exact matches.



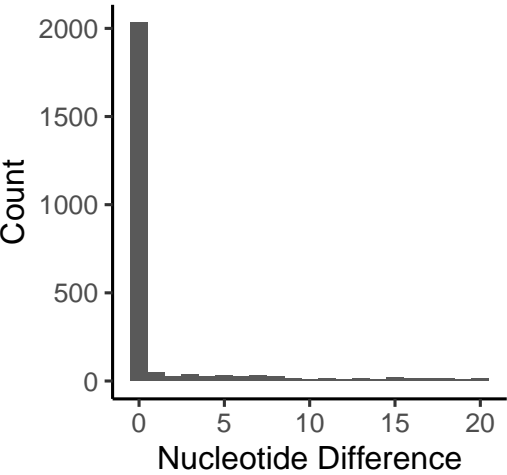
IGHV6–1*01_02

431 sequences assigned
302 (70.1%) exact matches, in which:
302 unique CDR3
6 unique J



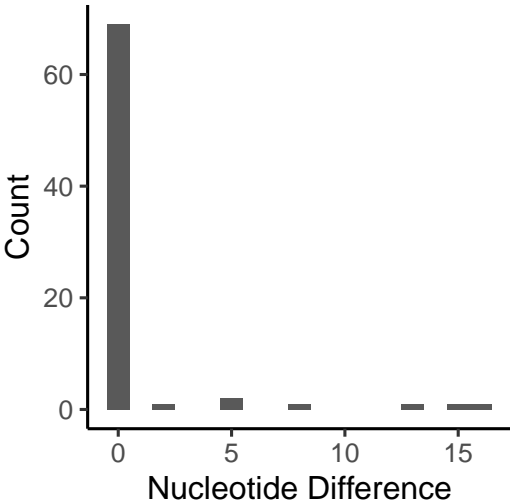
IGHV4–59*02_G88A

2589 sequences assigned
2032 (78.5%) exact matches, in which:
2020 unique CDR3
6 unique J



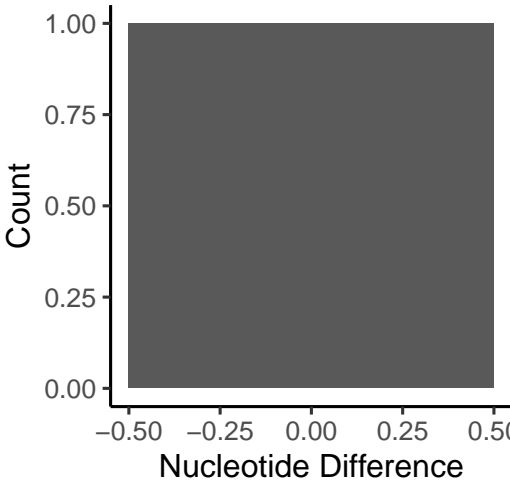
IGHV5–10–1*01_03

86 sequences assigned
69 (80.2%) exact matches, in which:
69 unique CDR3
5 unique J



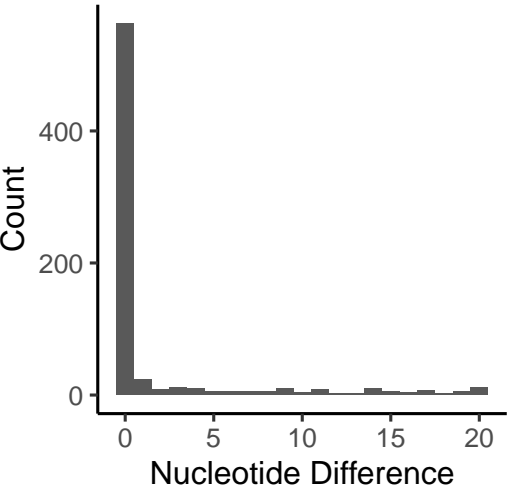
IGHV7–4–1*01

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



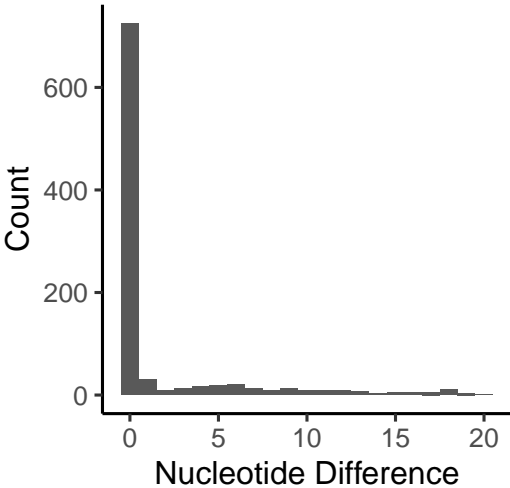
IGHV4–61*01

761 sequences assigned
563 (74%) exact matches, in which:
561 unique CDR3
6 unique J



IGHV5–51*07_A128G

953 sequences assigned
725 (76.1%) exact matches, in which:
725 unique CDR3
6 unique J





Warning – no inferred sequences found.