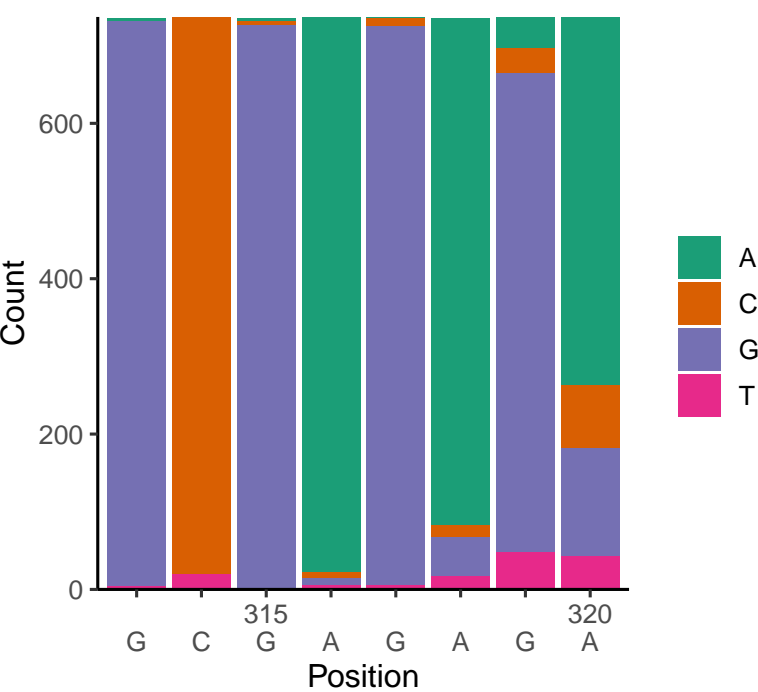
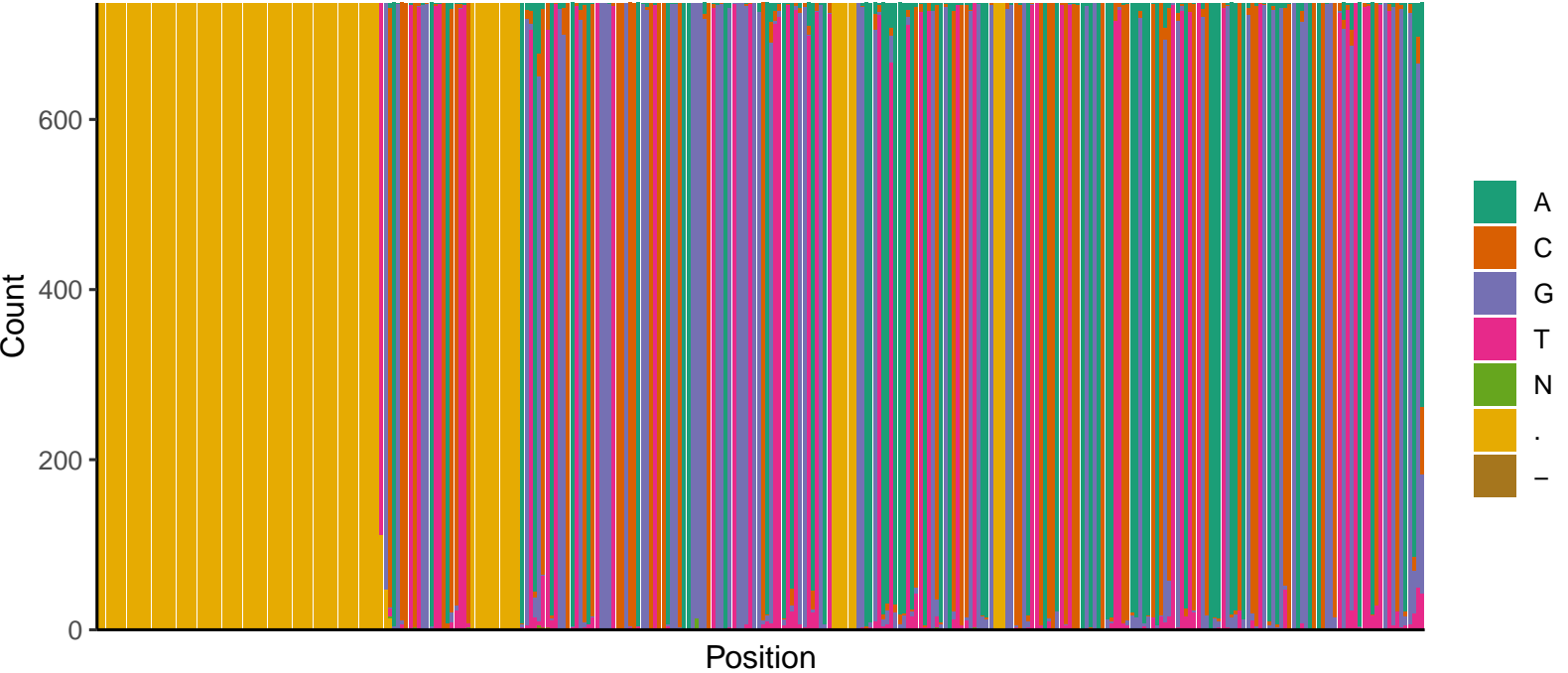


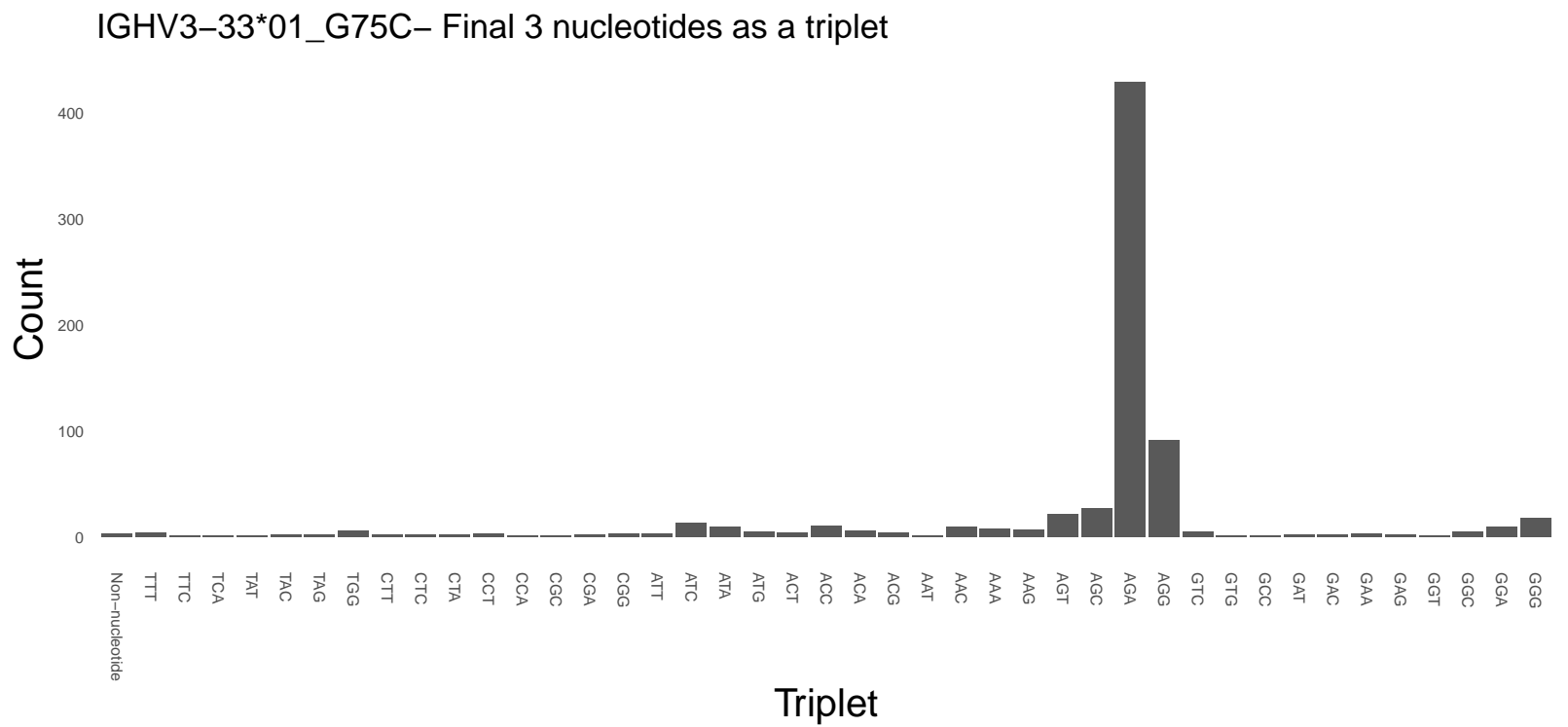
Gene IGHV3-33*01_G75C



Gene IGHV3-33*01_G75C

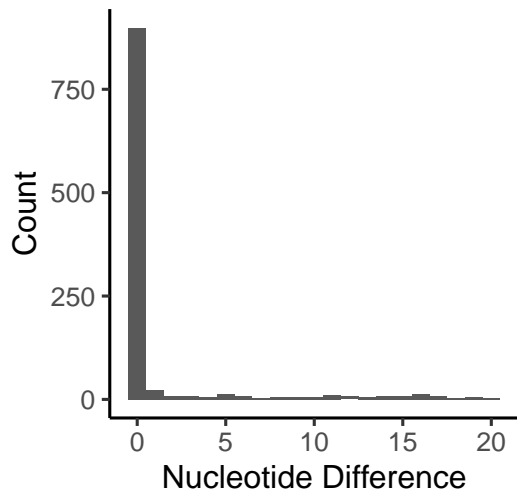


IGHV3-33*01_G75C- Final 3 nucleotides as a triplet



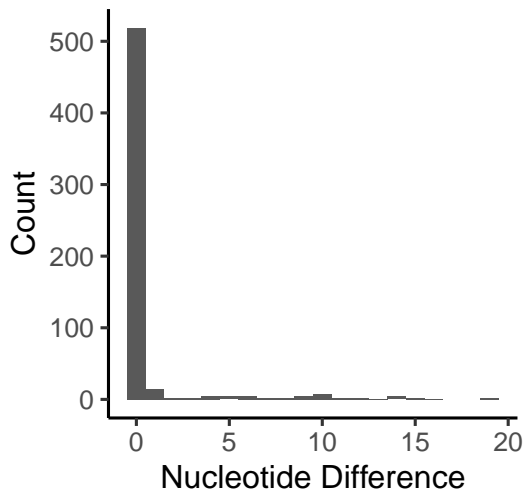
IGHV1-2*02

1114 sequences assigned
899 (80.7%) exact matches, in which:
899 unique CDR3
6 unique J



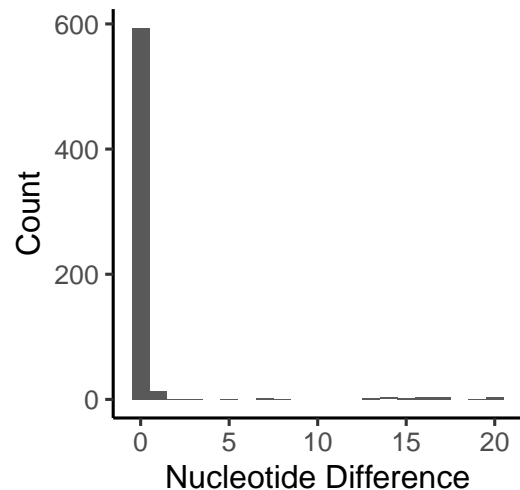
IGHV1-8*01

594 sequences assigned
519 (87.4%) exact matches, in which:
519 unique CDR3
6 unique J



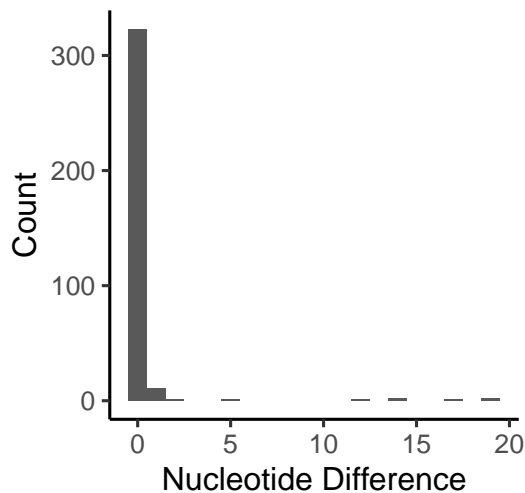
IGHV1-24*01

650 sequences assigned
594 (91.4%) exact matches, in which:
593 unique CDR3
6 unique J



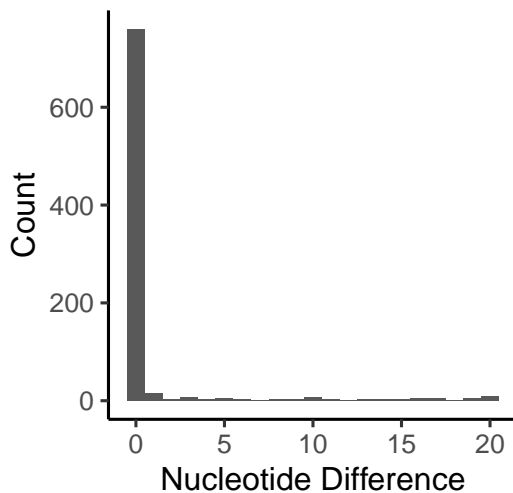
IGHV1-2*04

347 sequences assigned
323 (93.1%) exact matches, in which:
323 unique CDR3
5 unique J



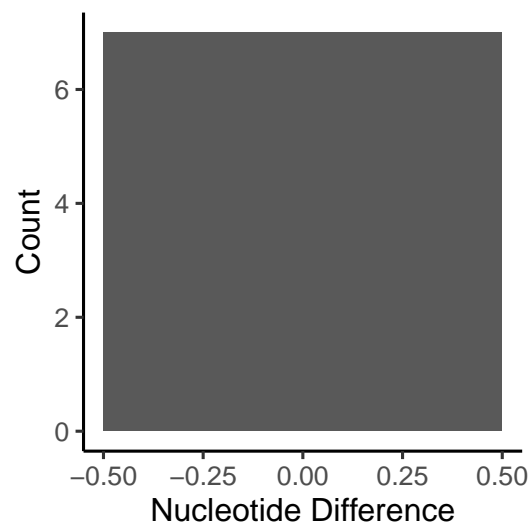
IGHV1-18*01

888 sequences assigned
760 (85.6%) exact matches, in which:
760 unique CDR3
6 unique J



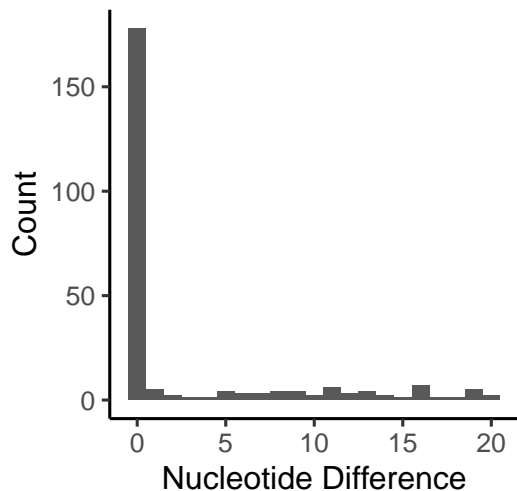
IGHV1-45*02

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



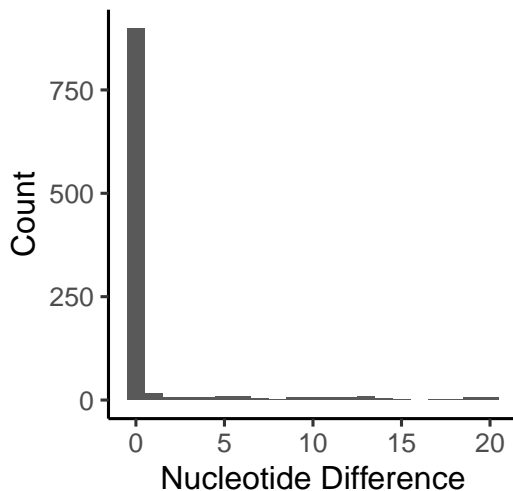
IGHV1-3*01_05

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



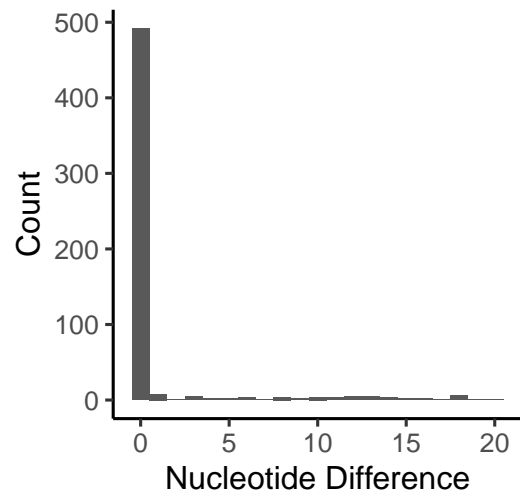
IGHV1-18*04

1037 sequences assigned
899 (86.7%) exact matches, in which:
898 unique CDR3
6 unique J



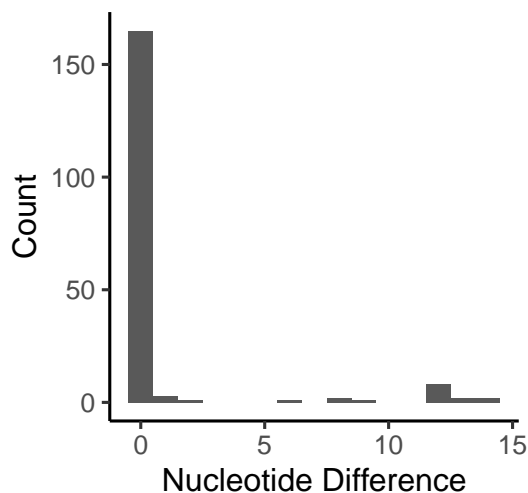
IGHV1-46*01

584 sequences assigned
492 (84.2%) exact matches, in which:
492 unique CDR3
6 unique J



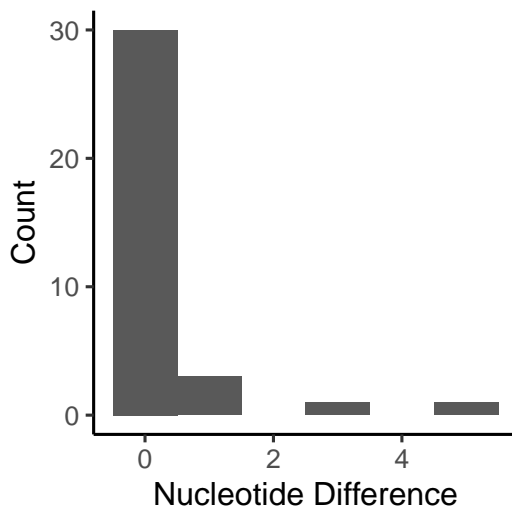
IGHV1–58*01_03

186 sequences assigned
165 (88.7%) exact matches, in which:
165 unique CDR3
5 unique J



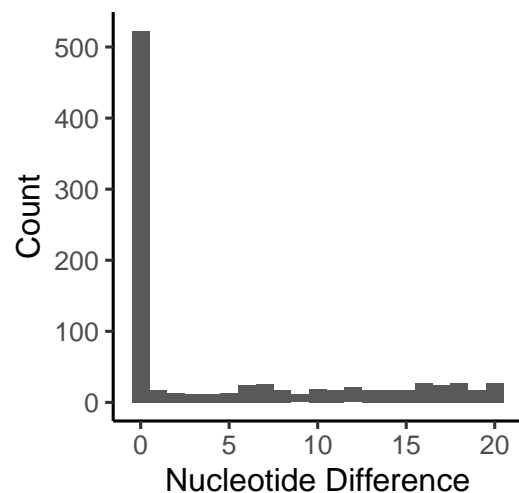
IGHV2–26*01

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



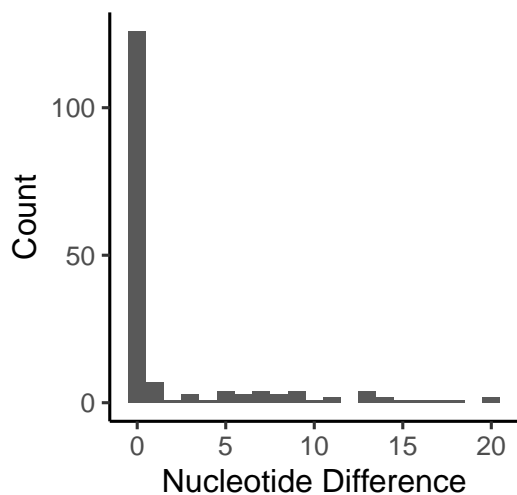
IGHV3–7*03

967 sequences assigned
523 (54.1%) exact matches, in which:
519 unique CDR3
6 unique J



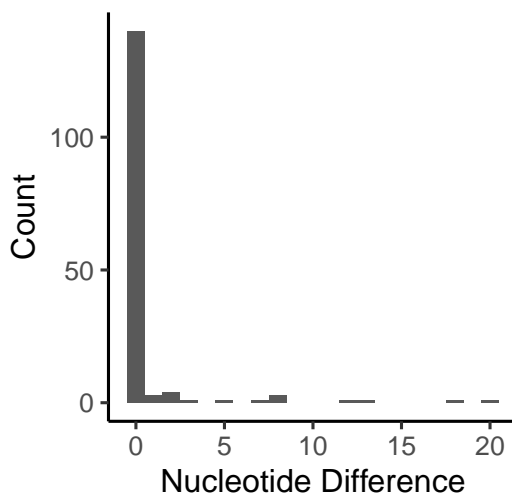
IGHV2–5*01

176 sequences assigned
126 (71.6%) exact matches, in which:
126 unique CDR3
6 unique J



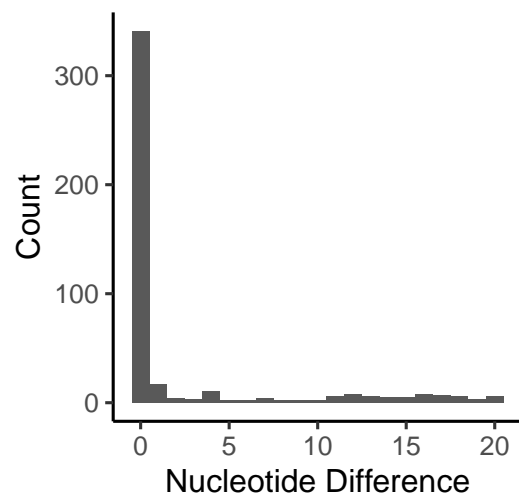
IGHV2–70*01

161 sequences assigned
140 (87%) exact matches, in which:
140 unique CDR3
5 unique J



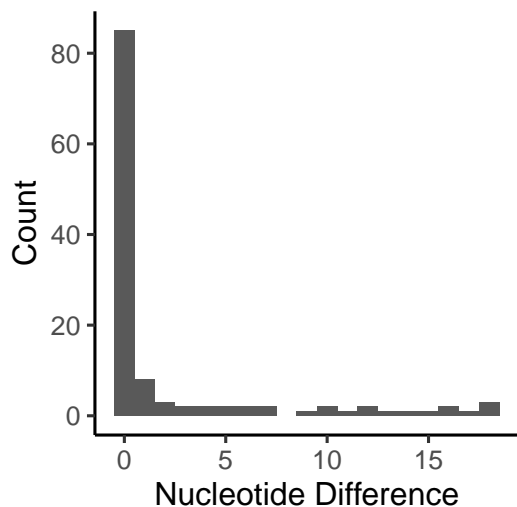
IGHV3–9*01

487 sequences assigned
341 (70%) exact matches, in which:
337 unique CDR3
6 unique J



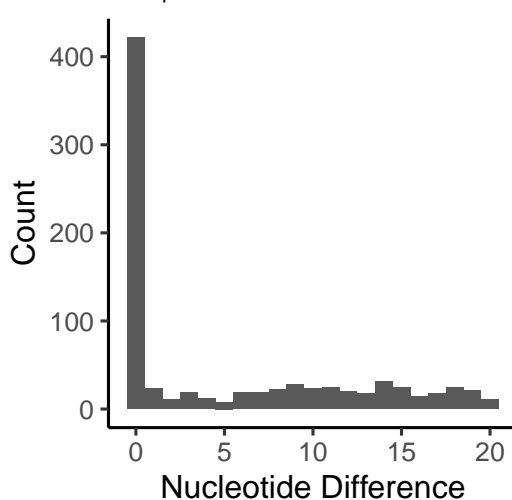
IGHV2–5*02

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



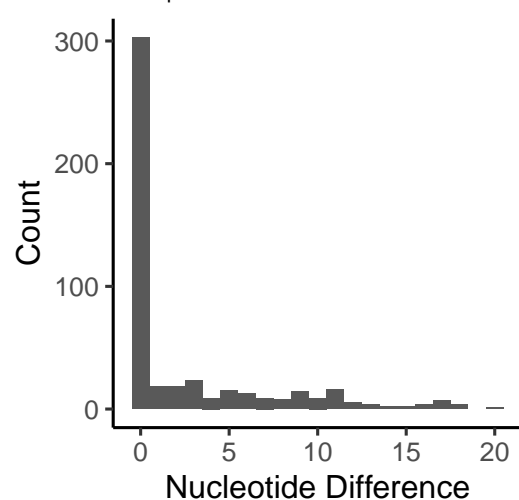
IGHV3–7*01

907 sequences assigned
422 (46.5%) exact matches, in which:
418 unique CDR3
6 unique J



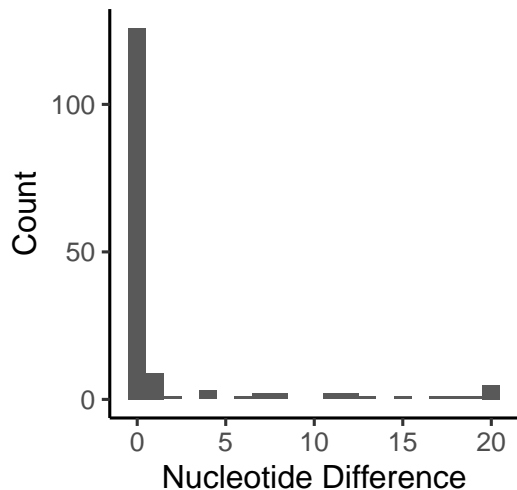
IGHV3–11*01

514 sequences assigned
303 (58.9%) exact matches, in which:
303 unique CDR3
6 unique J



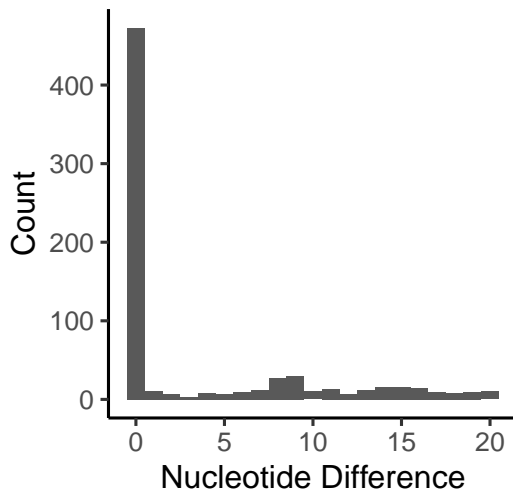
IGHV3-11*06

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



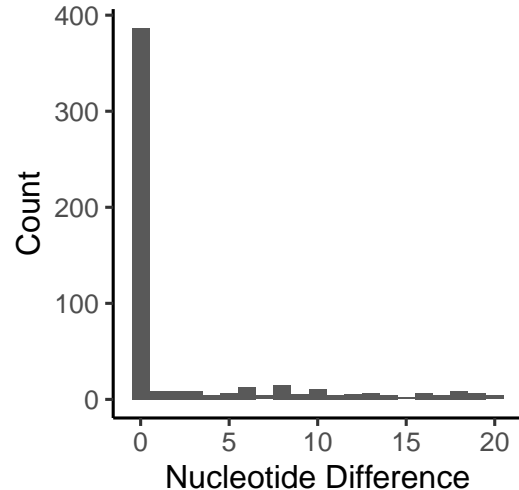
IGHV3-15*01_02

791 sequences assigned
473 (59.8%) exact matches, in which:
472 unique CDR3
6 unique J



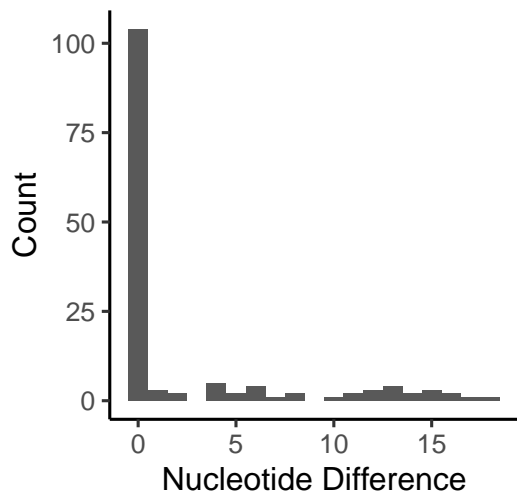
IGHV3-33*01

560 sequences assigned
387 (69.1%) exact matches, in which:
386 unique CDR3
6 unique J



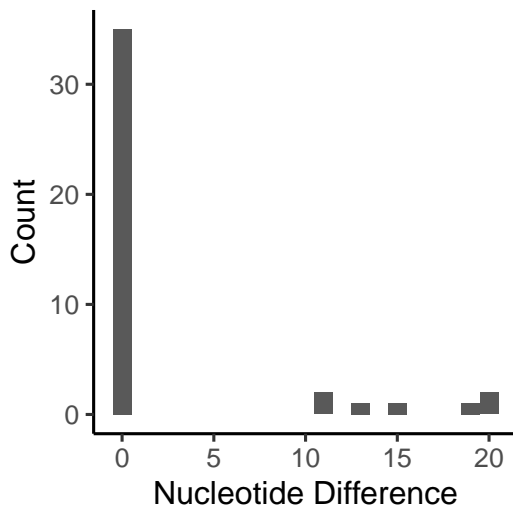
IGHV3-13*01

147 sequences assigned
104 (70.7%) exact matches, in which:
103 unique CDR3
6 unique J



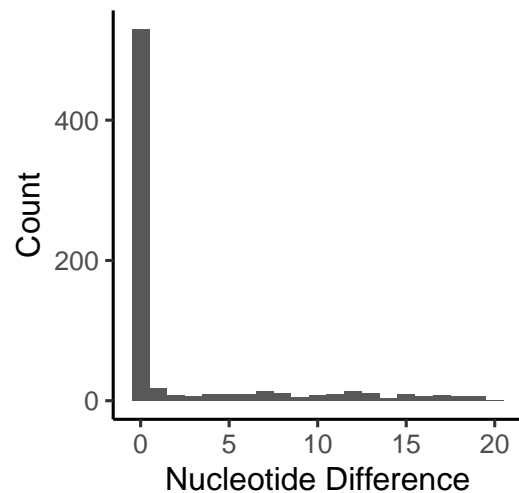
IGHV3-20*01_02

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



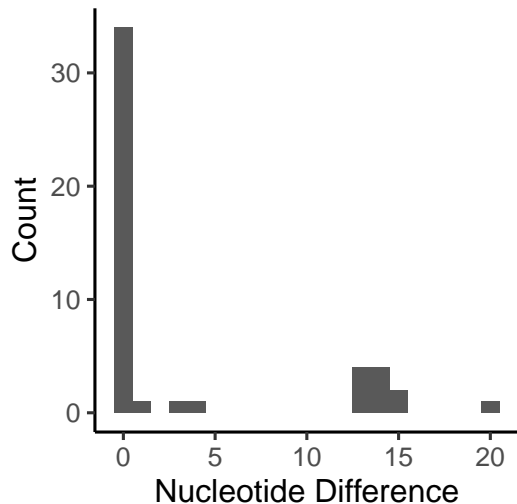
IGHV3-33*01_G75C

737 sequences assigned
530 (71.9%) exact matches, in which:
527 unique CDR3
6 unique J



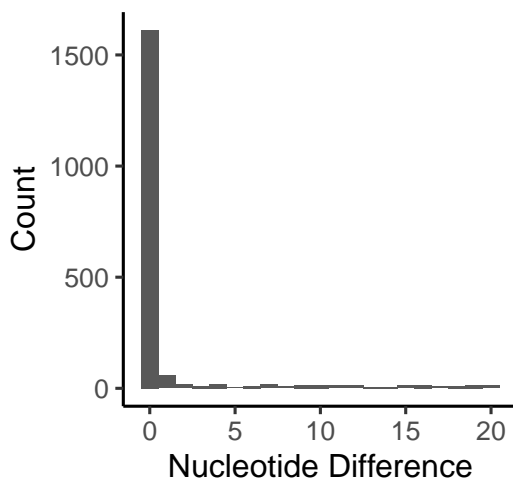
IGHV3-13*05

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



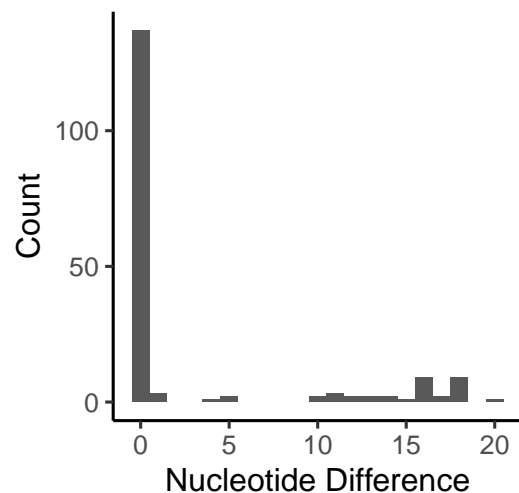
IGHV3-21*01_02

2009 sequences assigned
1612 (80.2%) exact matches, in which:
1593 unique CDR3
6 unique J



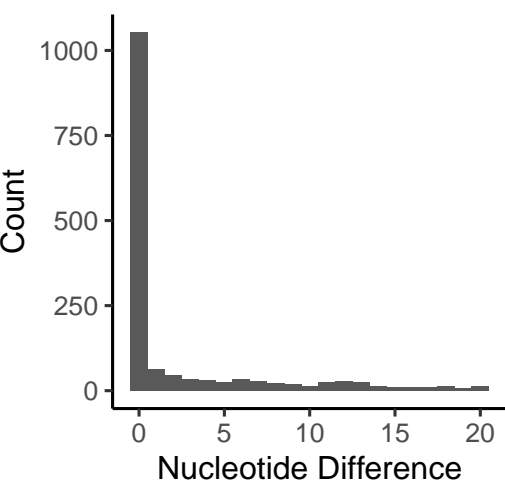
IGHV3-43*01

229 sequences assigned
137 (59.8%) exact matches, in which:
135 unique CDR3
6 unique J



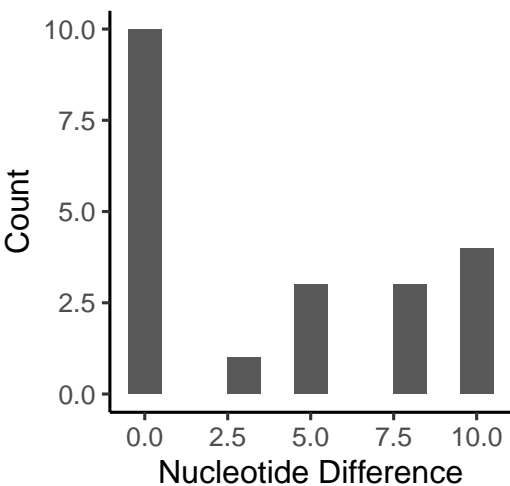
IGHV3-48*02

1609 sequences assigned
1053 (65.4%) exact matches, in which:
1043 unique CDR3
6 unique J



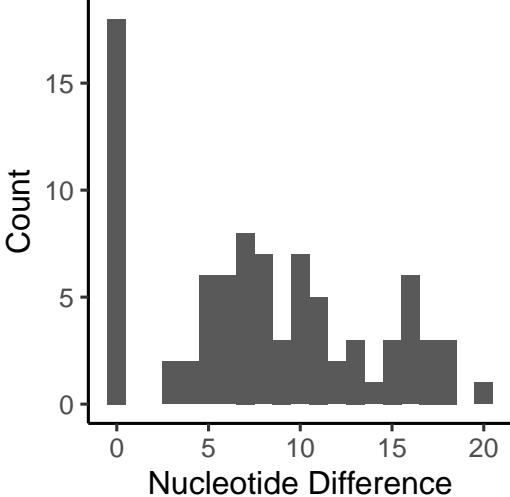
IGHV3-64*02_07

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



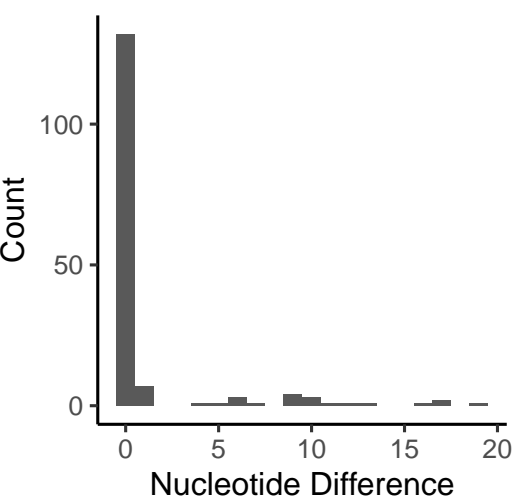
IGHV3-72*01

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



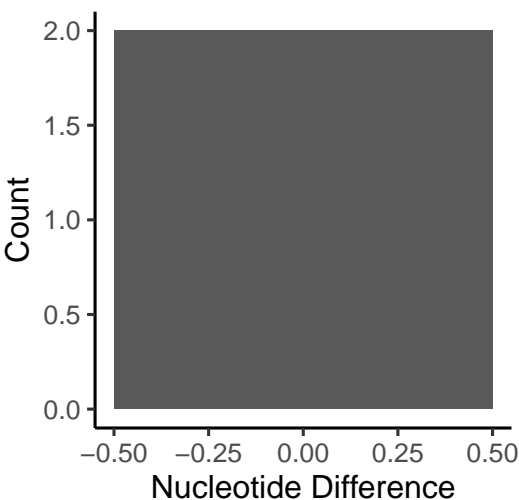
IGHV3-49*03_05

177 sequences assigned
132 (74.6%) exact matches, in which:
132 unique CDR3
6 unique J



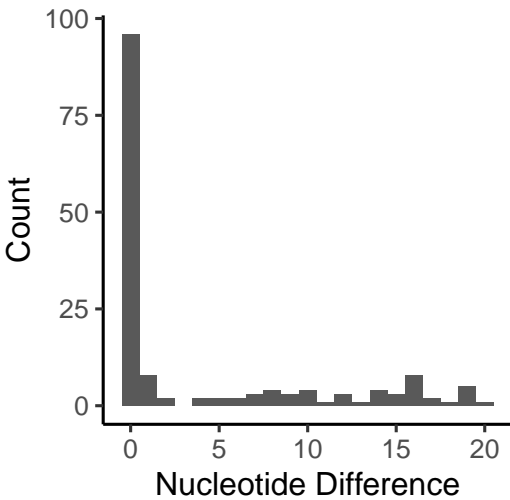
IGHV3-66*03

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



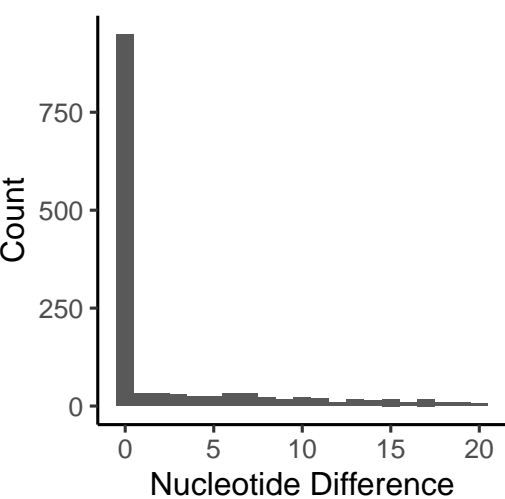
IGHV3-73*01_02

175 sequences assigned
96 (54.9%) exact matches, in which:
95 unique CDR3
5 unique J



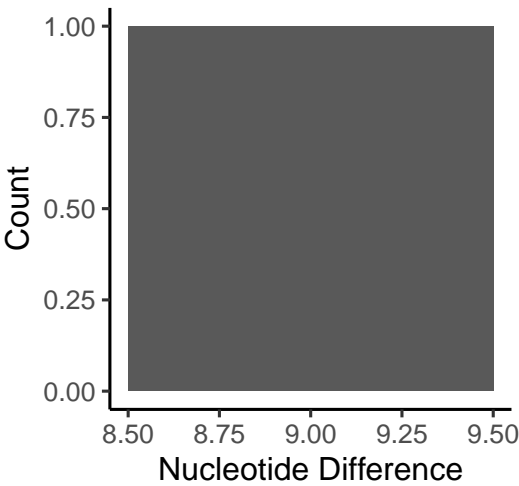
IGHV3-53*01_02

1429 sequences assigned
949 (66.4%) exact matches, in which:
931 unique CDR3
6 unique J



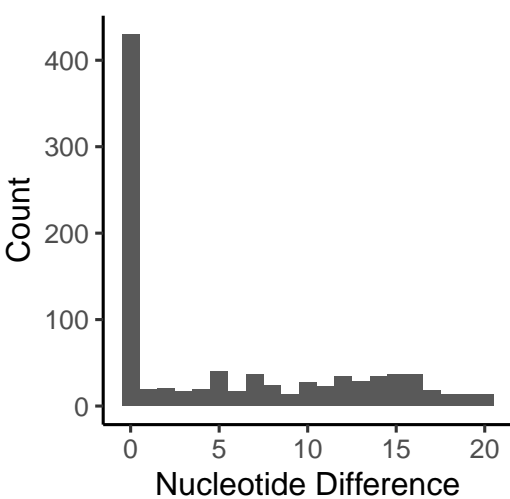
IGHV3-69-1*02

3 sequences assigned
No exact matches.



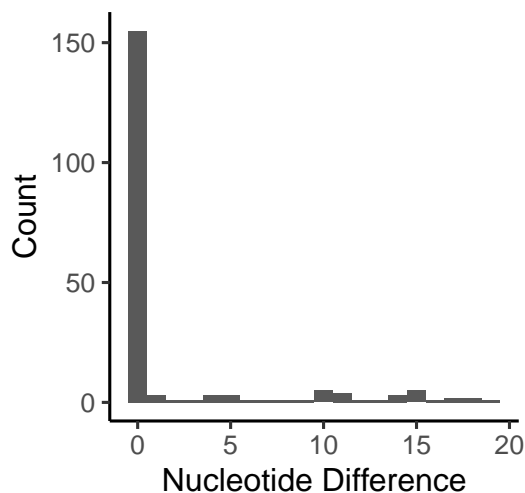
IGHV3-74*01_02

985 sequences assigned
430 (43.7%) exact matches, in which:
424 unique CDR3
6 unique J



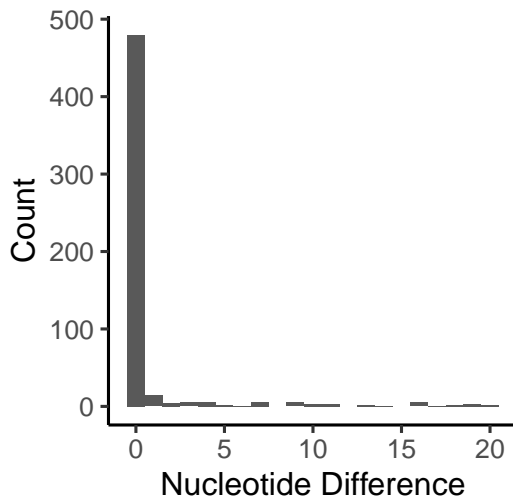
IGHV3-64D*06

203 sequences assigned
155 (76.4%) exact matches, in which:
154 unique CDR3
6 unique J



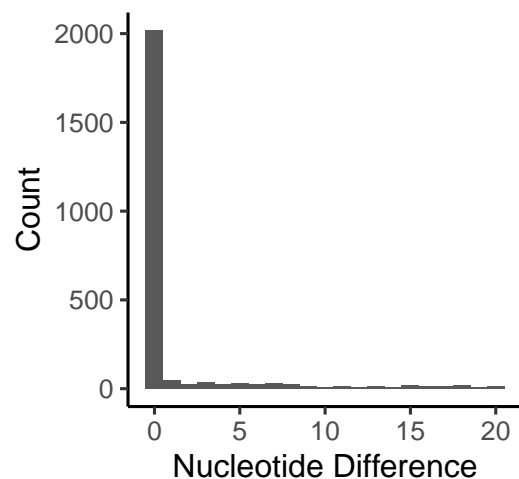
IGHV4-31*03_04

590 sequences assigned
480 (81.4%) exact matches, in which:
474 unique CDR3
6 unique J



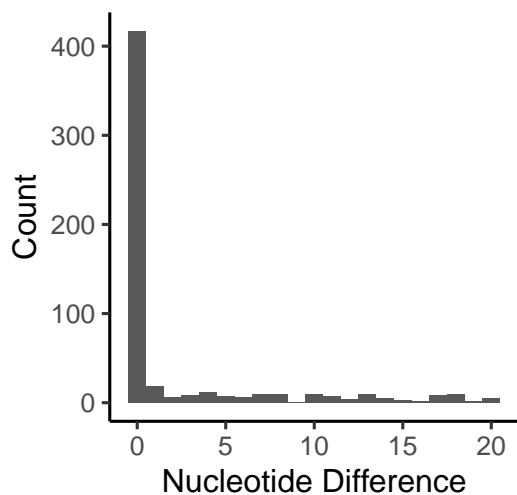
IGHV4-59*01_07

2572 sequences assigned
2018 (78.5%) exact matches, in which:
2006 unique CDR3
6 unique J



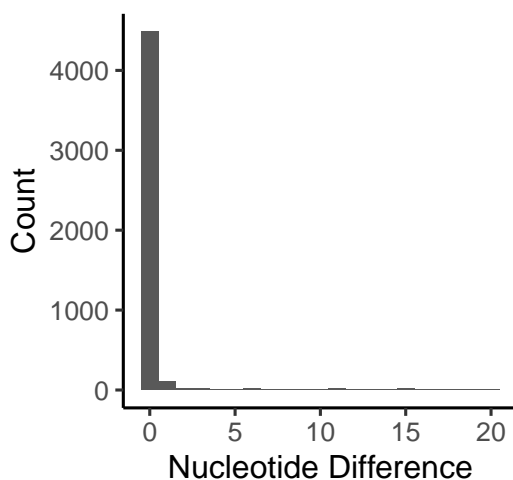
IGHV4-4*07

607 sequences assigned
417 (68.7%) exact matches, in which:
414 unique CDR3
6 unique J



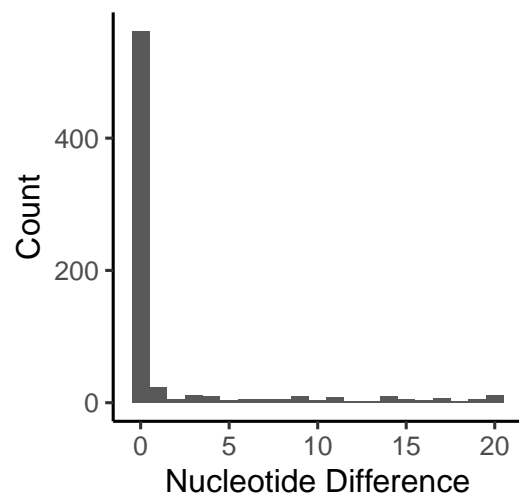
IGHV4-34*01_02

4842 sequences assigned
4484 (92.6%) exact matches, in which:
4458 unique CDR3
6 unique J



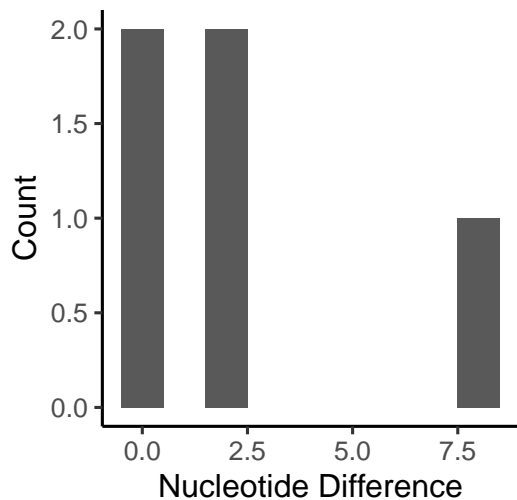
IGHV4-61*01

756 sequences assigned
562 (74.3%) exact matches, in which:
560 unique CDR3
6 unique J



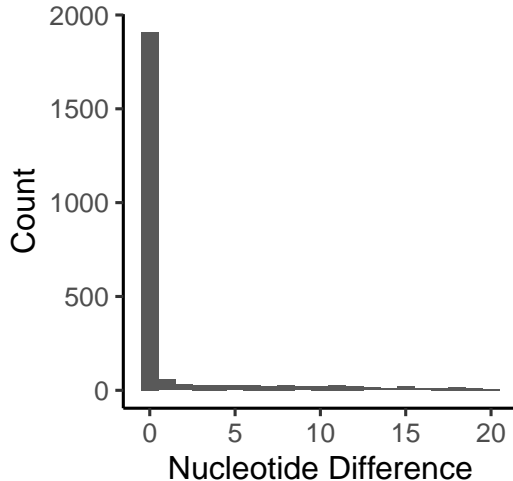
IGHV4-28*01_07

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



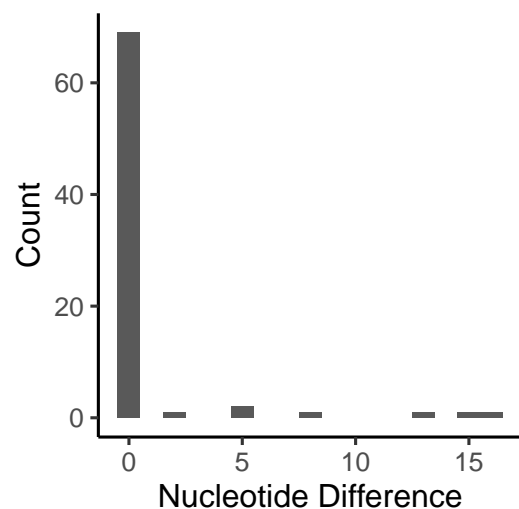
IGHV4-39*01_05

2500 sequences assigned
1909 (76.4%) exact matches, in which:
1904 unique CDR3
6 unique J



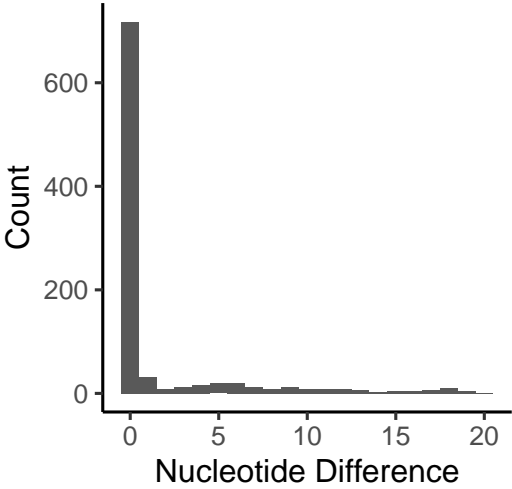
IGHV5-10-1*01_03

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



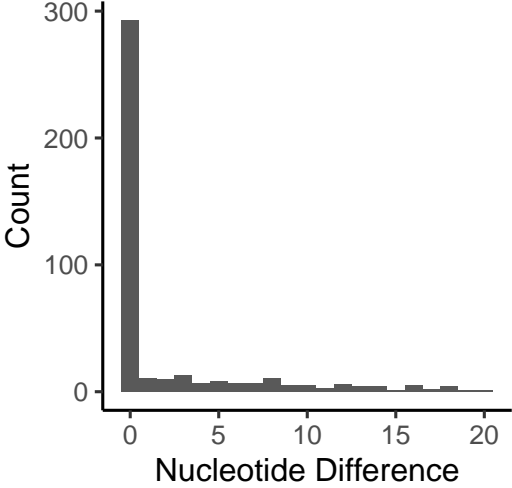
IGHV5–51*01_03

945 sequences assigned
718 (76%) exact matches, in which:
718 unique CDR3
6 unique J



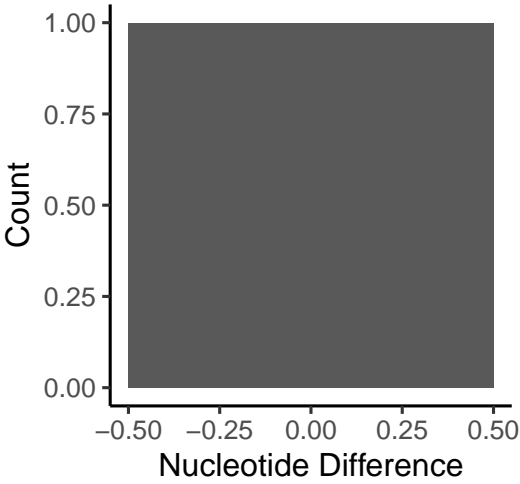
IGHV6–1*01_02

421 sequences assigned
293 (69.6%) exact matches, in which:
293 unique CDR3
6 unique J



IGHV7–4–1*01

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





Never sequences(0) for IV 1 00 02_C00A for IV 0 0 01_11200 are not listed in the genotype and will be ignored.