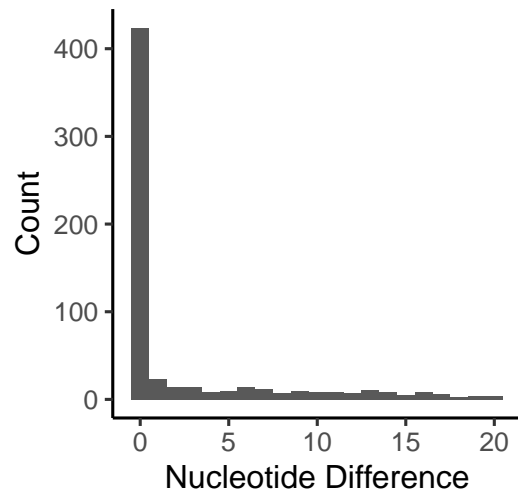


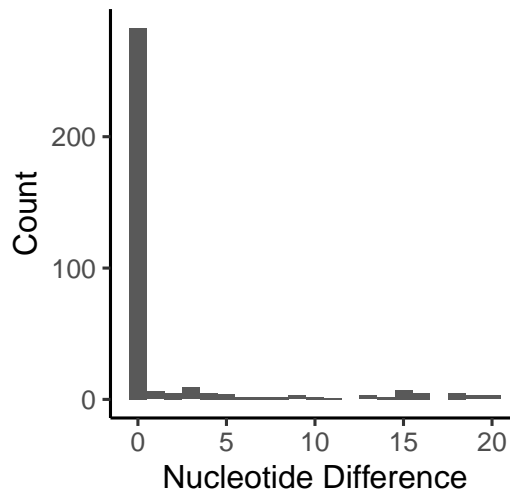
IGHV1-2*04

645 sequences assigned
424 (65.7%) exact matches, in which:
422 unique CDR3
6 unique J



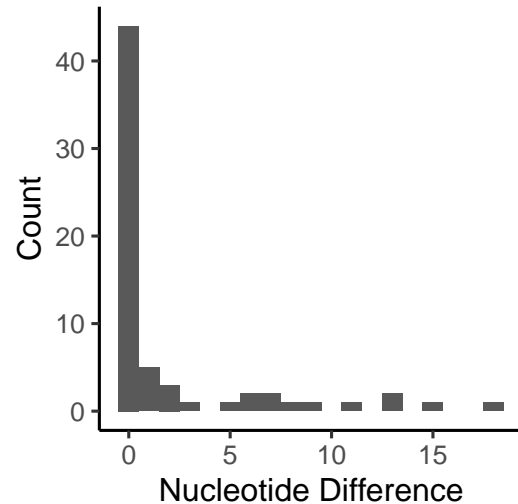
IGHV1-24*01

362 sequences assigned
283 (78.2%) exact matches, in which:
283 unique CDR3
7 unique J



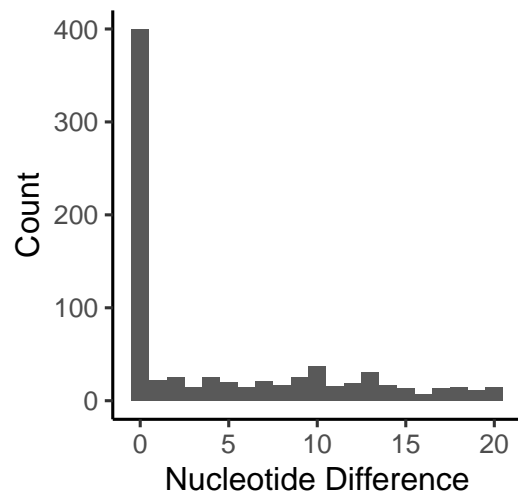
IGHV1-58*02

72 sequences assigned
44 (61.1%) exact matches, in which:
44 unique CDR3
5 unique J



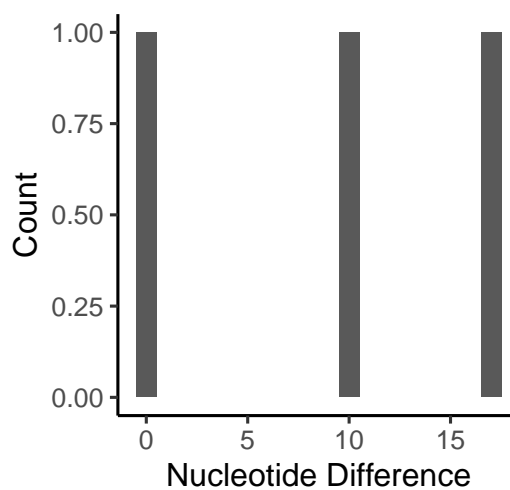
IGHV1-3*01_05

863 sequences assigned
400 (46.3%) exact matches, in which:
398 unique CDR3
7 unique J



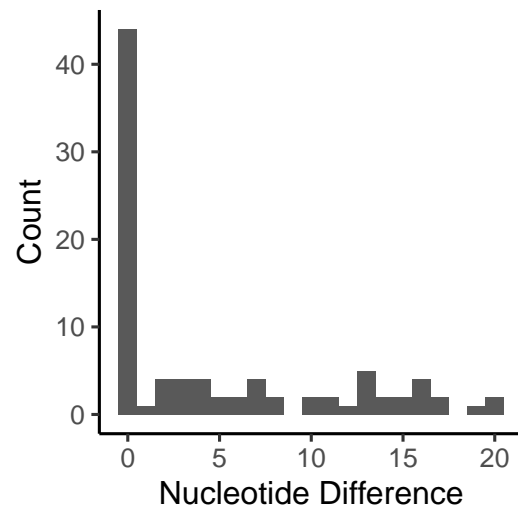
IGHV1-45*02

3 sequences assigned
1 (33.3%) exact matches, in which:
1 unique CDR3
1 unique J



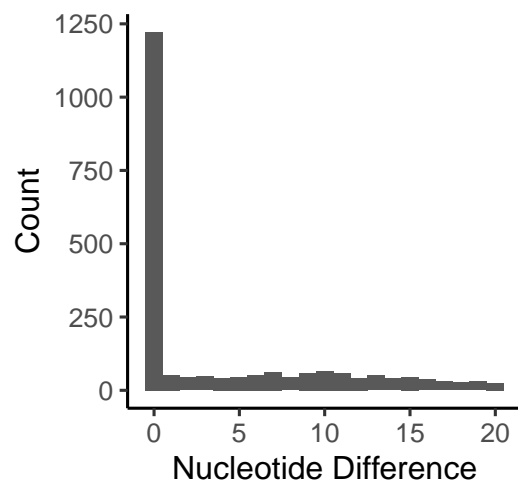
IGHV1-58*01_03

100 sequences assigned
44 (44%) exact matches, in which:
44 unique CDR3
4 unique J



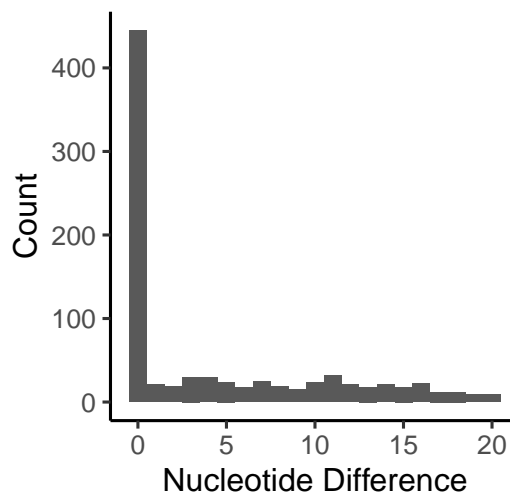
IGHV1-18*01

2290 sequences assigned
1222 (53.4%) exact matches, in which:
1220 unique CDR3
7 unique J



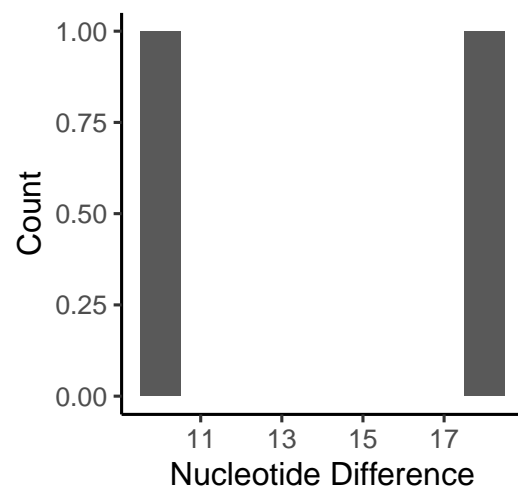
IGHV1-46*01

914 sequences assigned
445 (48.7%) exact matches, in which:
444 unique CDR3
7 unique J



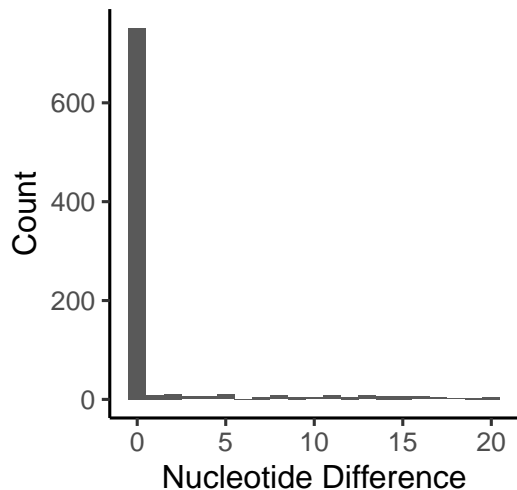
IGHV1-69-2*01

2 sequences assigned
No exact matches.



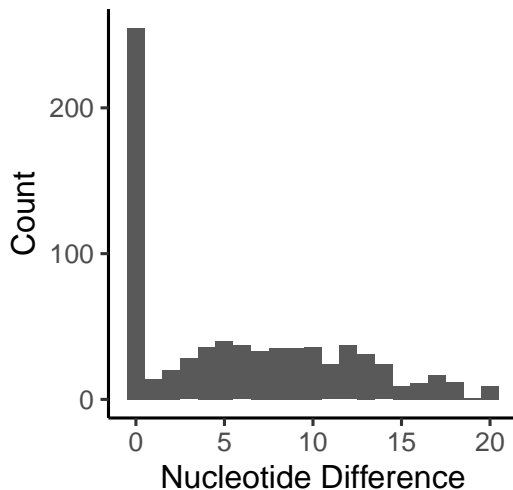
IGHV1-69*01_12_13

921 sequences assigned
752 (81.7%) exact matches, in which:
751 unique CDR3
7 unique J



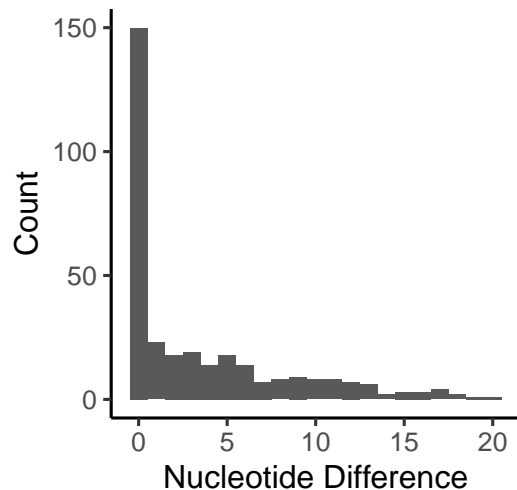
IGHV2-5*02

773 sequences assigned
255 (33%) exact matches, in which:
255 unique CDR3
7 unique J



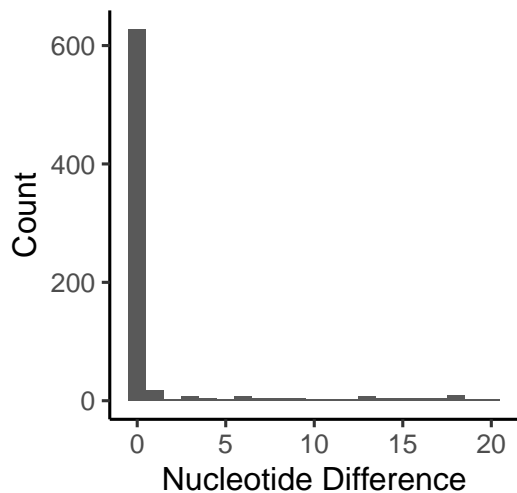
IGHV2-70*11_15

333 sequences assigned
150 (45%) exact matches, in which:
149 unique CDR3
5 unique J



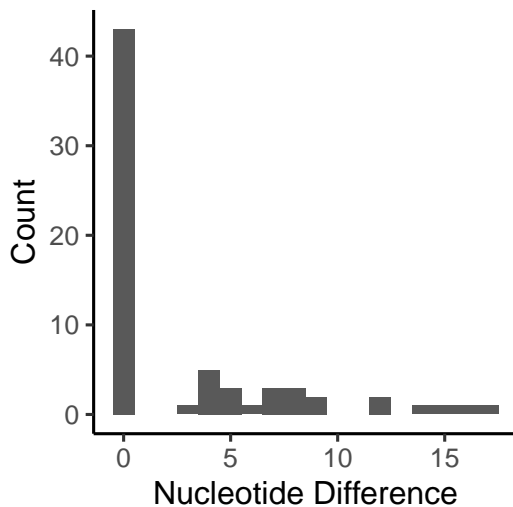
IGHV1-69*04_09

789 sequences assigned
628 (79.6%) exact matches, in which:
628 unique CDR3
7 unique J



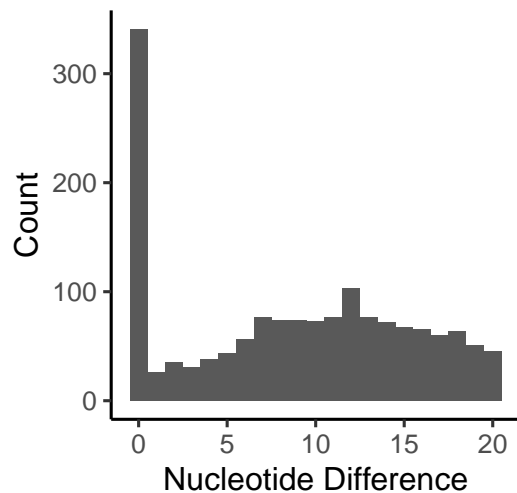
IGHV2-26*01

74 sequences assigned
43 (58.1%) exact matches, in which:
43 unique CDR3
5 unique J



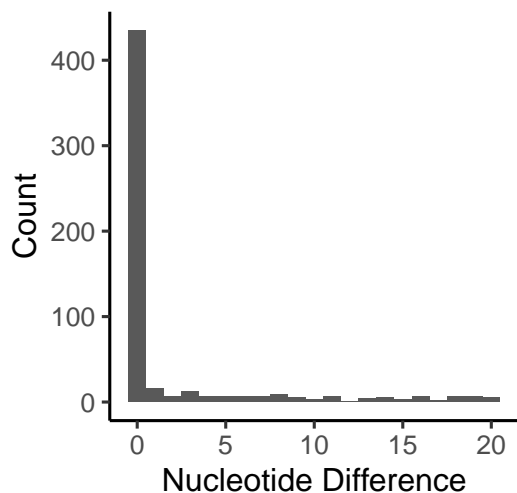
IGHV3-7*03

1786 sequences assigned
341 (19.1%) exact matches, in which:
329 unique CDR3
7 unique J



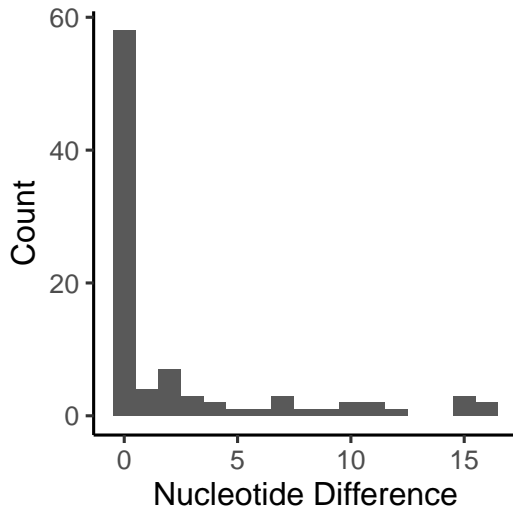
IGHV1-69*06_14

611 sequences assigned
435 (71.2%) exact matches, in which:
434 unique CDR3
6 unique J



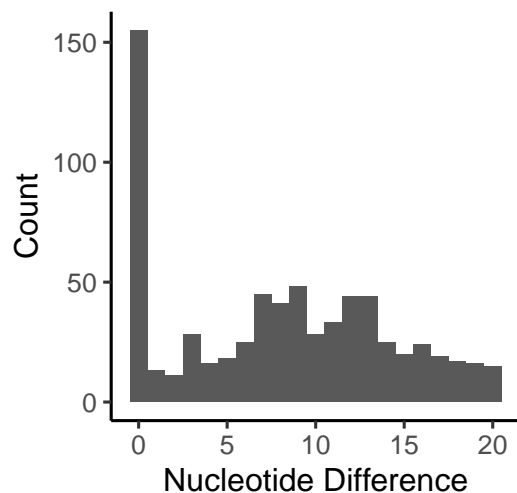
IGHV2-70*01

93 sequences assigned
58 (62.4%) exact matches, in which:
57 unique CDR3
4 unique J



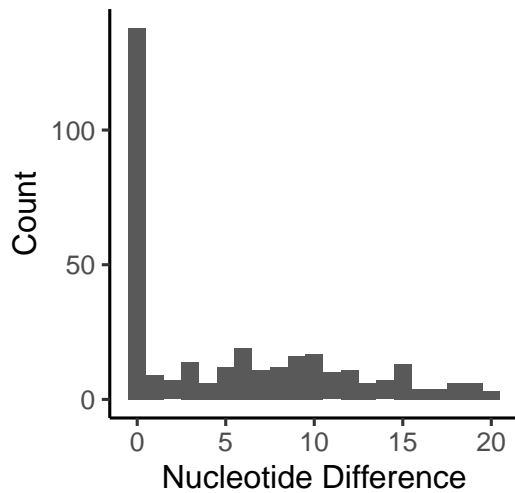
IGHV3-7*04

743 sequences assigned
155 (20.9%) exact matches, in which:
152 unique CDR3
6 unique J



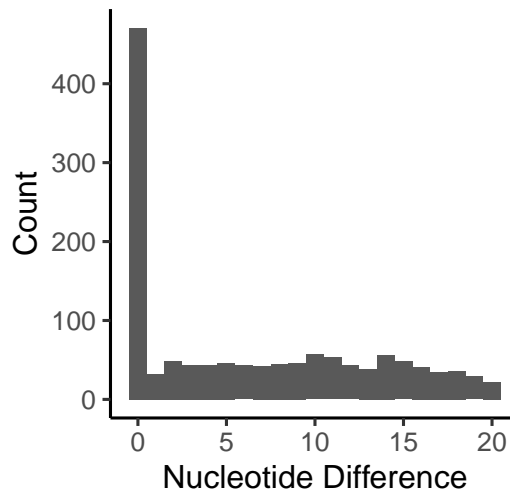
IGHV3-11*06

362 sequences assigned
138 (38.1%) exact matches, in which:
138 unique CDR3
6 unique J



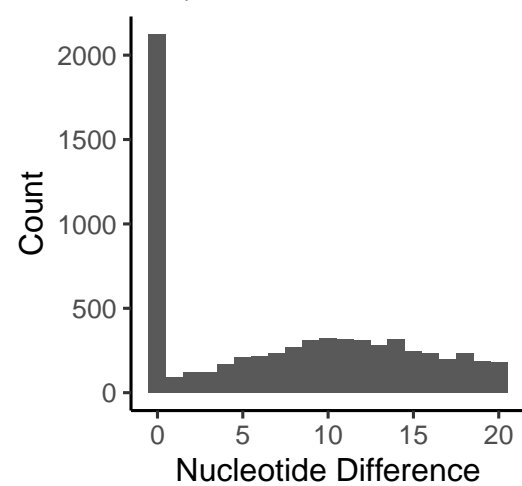
IGHV3-15*07

1490 sequences assigned
471 (31.6%) exact matches, in which:
458 unique CDR3
7 unique J



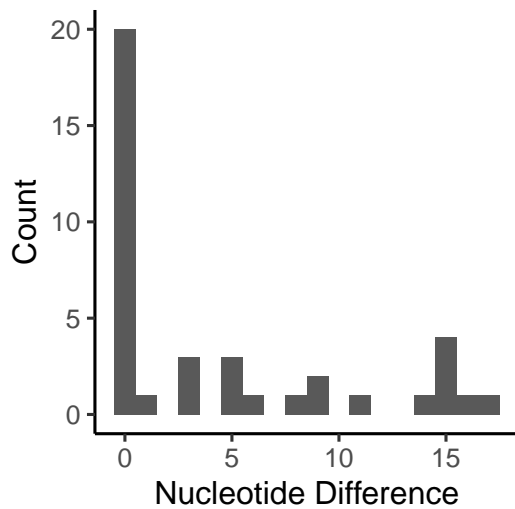
IGHV3-23*01_04

7591 sequences assigned
2123 (28%) exact matches, in which:
2076 unique CDR3
7 unique J



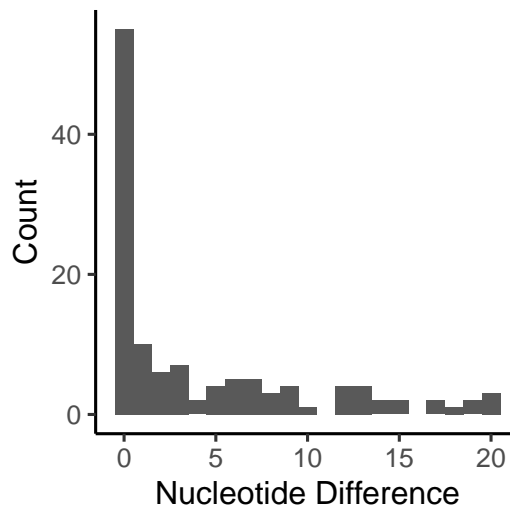
IGHV3-13*05

42 sequences assigned
20 (47.6%) exact matches, in which:
19 unique CDR3
4 unique J



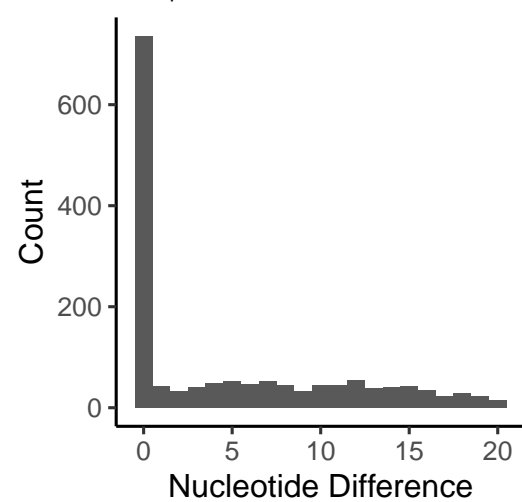
IGHV3-20*03_04

128 sequences assigned
55 (43%) exact matches, in which:
53 unique CDR3
6 unique J



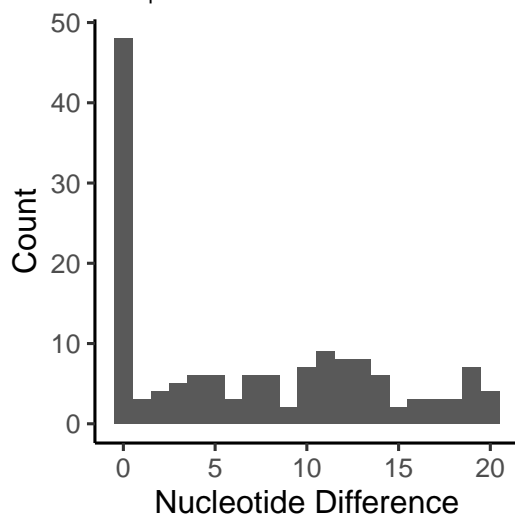
IGHV3-30-3*01

1643 sequences assigned
736 (44.8%) exact matches, in which:
724 unique CDR3
7 unique J



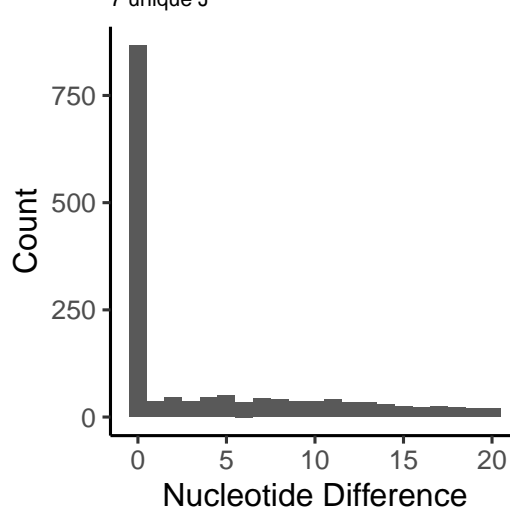
IGHV3-13*01_G290A_T30I

163 sequences assigned
48 (29.4%) exact matches, in which:
47 unique CDR3
5 unique J



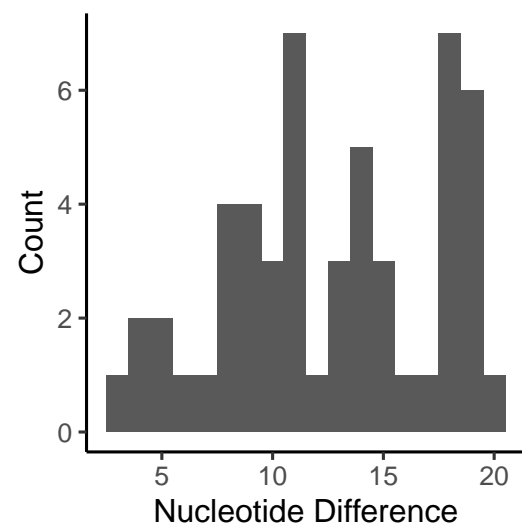
IGHV3-21*01_02

1593 sequences assigned
867 (54.4%) exact matches, in which:
835 unique CDR3
7 unique J



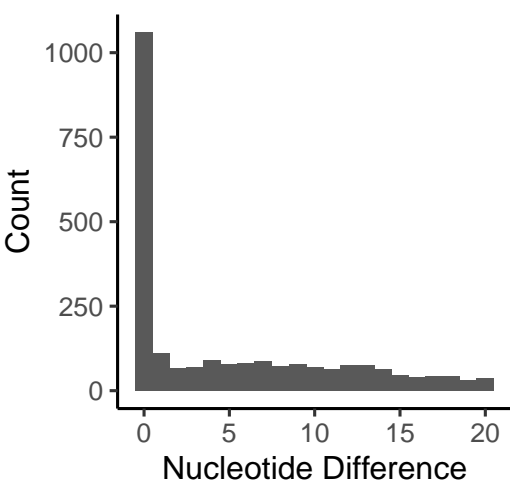
IGHV3-30*04

94 sequences assigned
No exact matches.



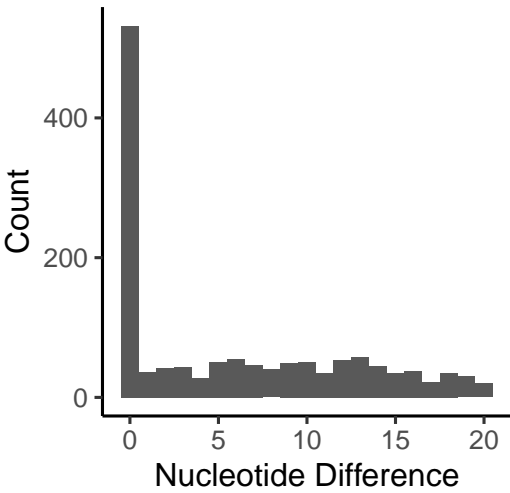
IGHV3-33*01

2603 sequences assigned
1060 (40.7%) exact matches, in which:
1032 unique CDR3
7 unique J



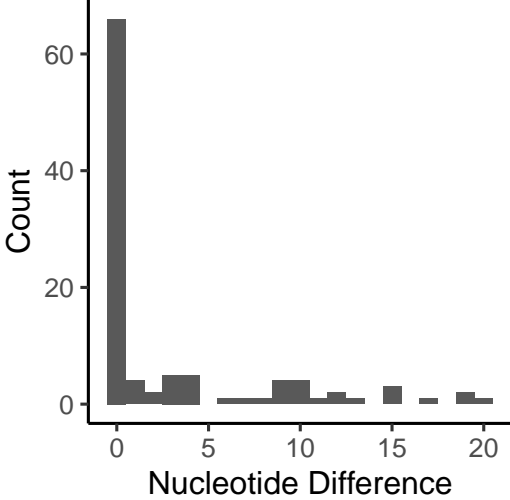
IGHV3-48*02

1442 sequences assigned
532 (36.9%) exact matches, in which:
512 unique CDR3
6 unique J



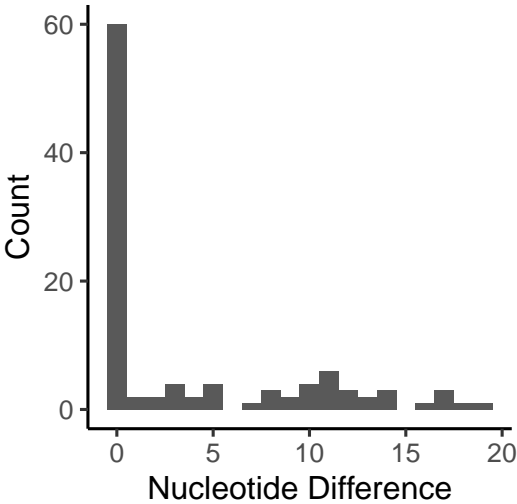
IGHV3-49*03_05

107 sequences assigned
66 (61.7%) exact matches, in which:
66 unique CDR3
4 unique J



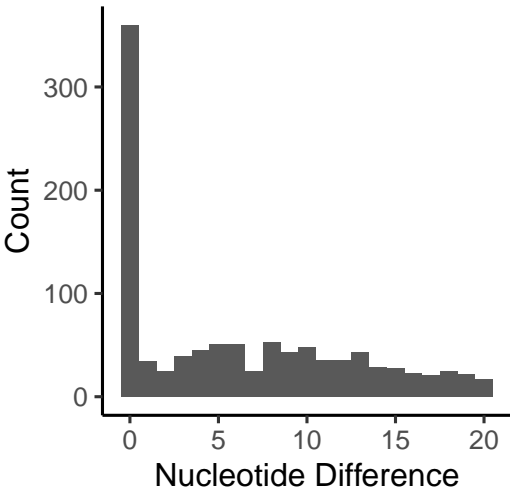
IGHV3-43*01

116 sequences assigned
60 (51.7%) exact matches, in which:
60 unique CDR3
6 unique J



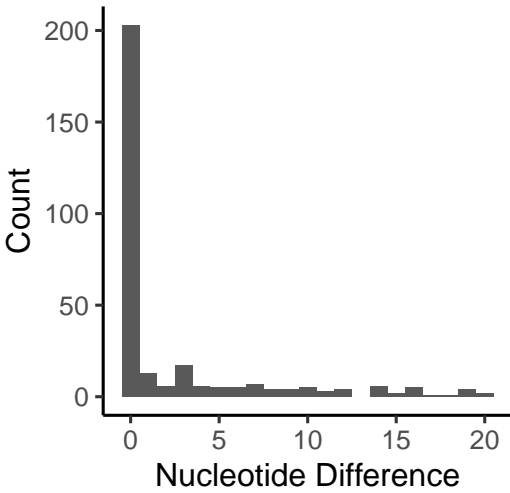
IGHV3-48*03

1154 sequences assigned
360 (31.2%) exact matches, in which:
347 unique CDR3
6 unique J



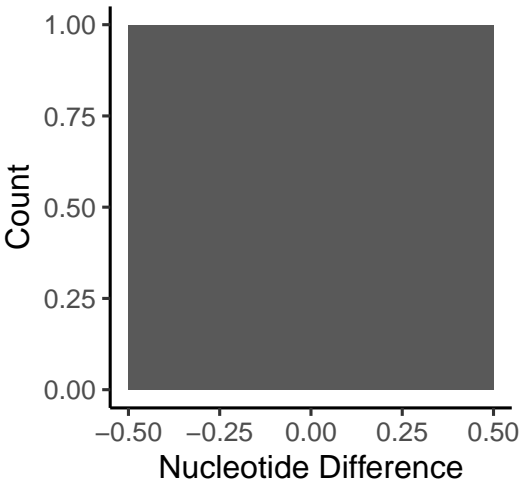
IGHV3-53*04

318 sequences assigned
203 (63.8%) exact matches, in which:
193 unique CDR3
6 unique J



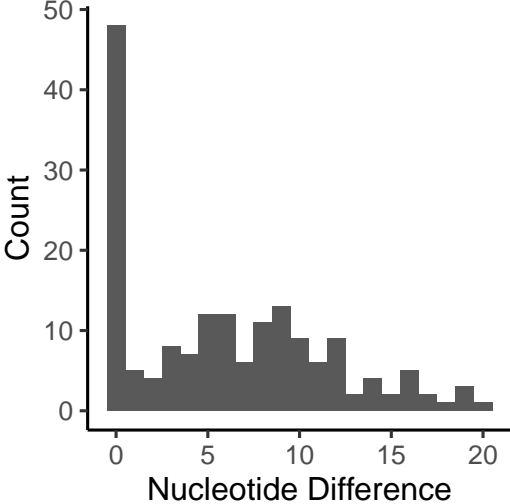
IGHV3-47*02

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



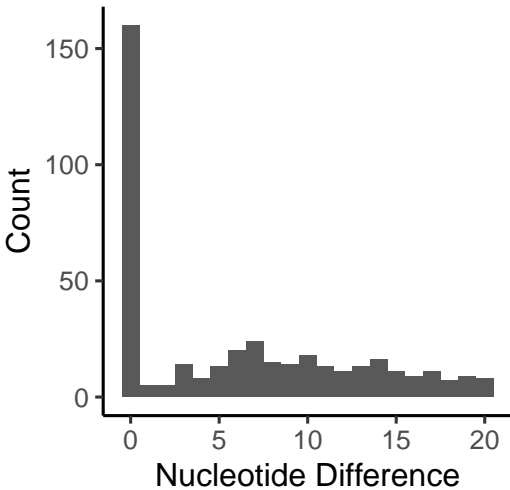
IGHV3-49*04

190 sequences assigned
48 (25.3%) exact matches, in which:
48 unique CDR3
4 unique J



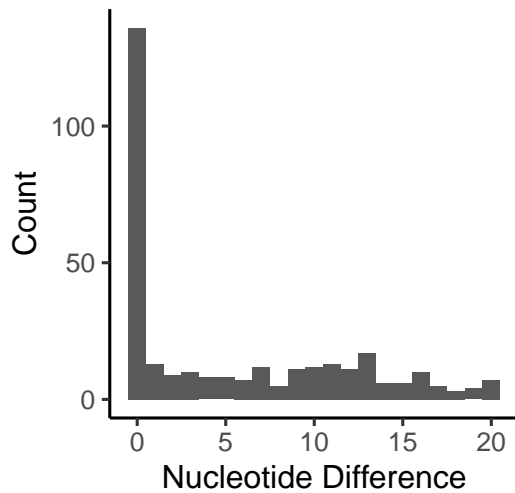
IGHV3-53*01_02

453 sequences assigned
160 (35.3%) exact matches, in which:
156 unique CDR3
6 unique J



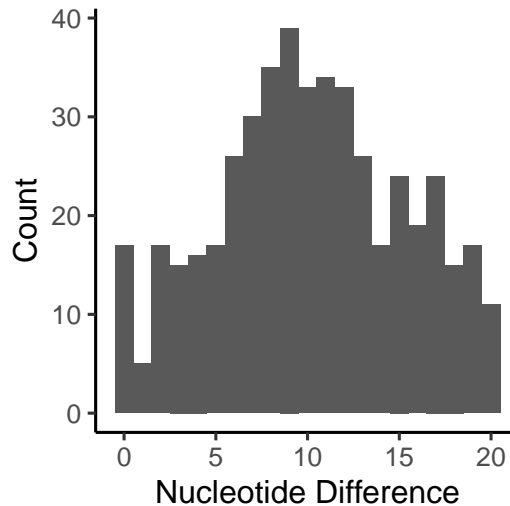
IGHV3–64*01

332 sequences assigned
136 (41%) exact matches, in which:
127 unique CDR3
6 unique J



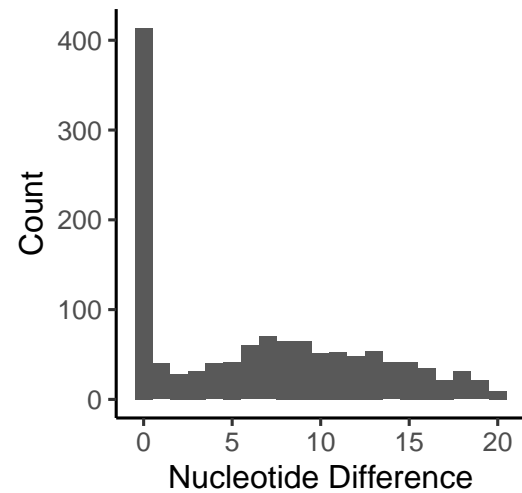
IGHV3–72*01

512 sequences assigned
17 (3.3%) exact matches, in which:
17 unique CDR3
5 unique J



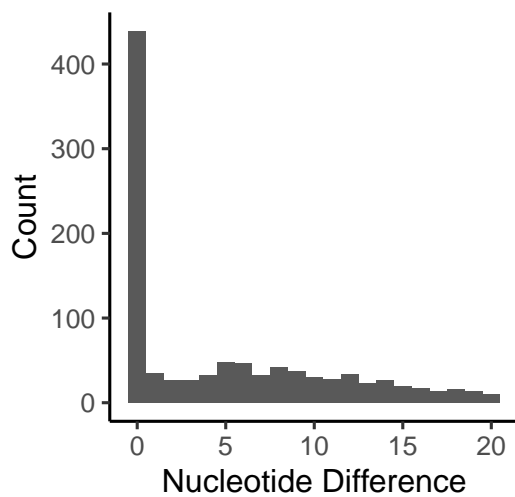
IGHV3–74*01_02

1341 sequences assigned
414 (30.9%) exact matches, in which:
395 unique CDR3
7 unique J



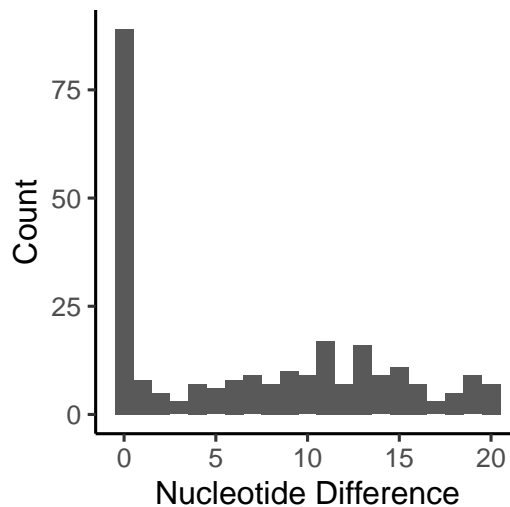
IGHV3–66*01

1076 sequences assigned
439 (40.8%) exact matches, in which:
420 unique CDR3
6 unique J



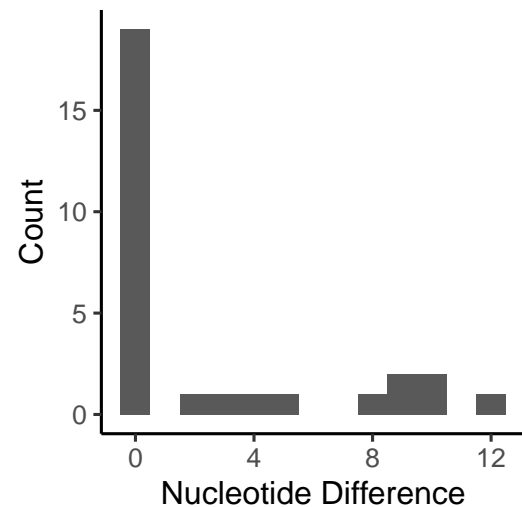
IGHV3–73*01_02

263 sequences assigned
89 (33.8%) exact matches, in which:
88 unique CDR3
5 unique J



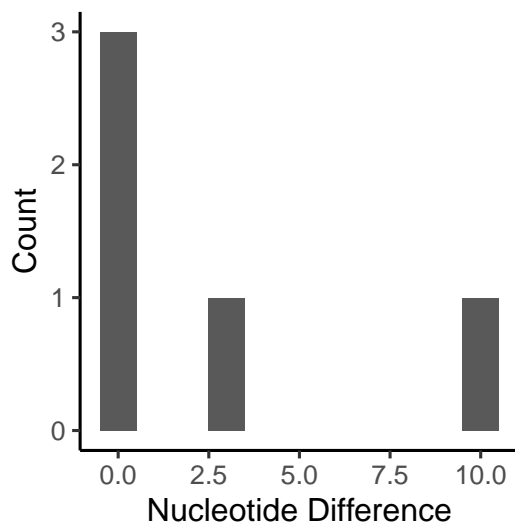
IGHV3–43D*04

36 sequences assigned
19 (52.8%) exact matches, in which:
19 unique CDR3
3 unique J



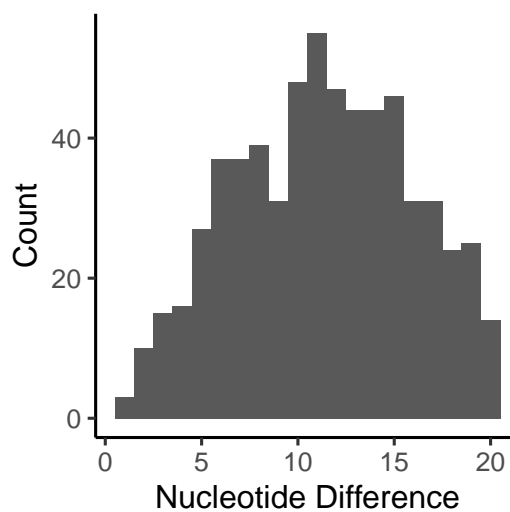
IGHV3–69–1*01

8 sequences assigned
3 (37.5%) exact matches, in which:
3 unique CDR3
2 unique J



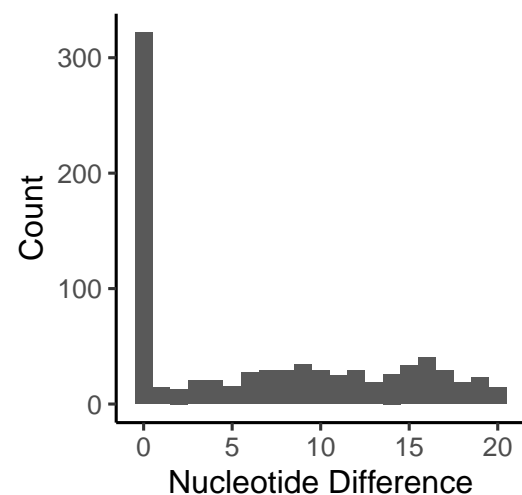
IGHV3–74*03

701 sequences assigned
No exact matches.



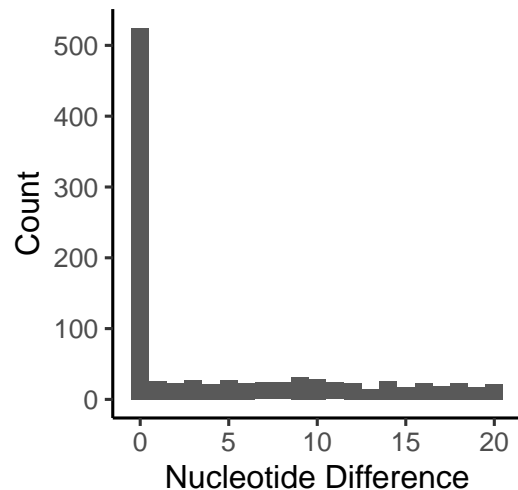
IGHV3–64D*06

892 sequences assigned
322 (36.1%) exact matches, in which:
312 unique CDR3
7 unique J



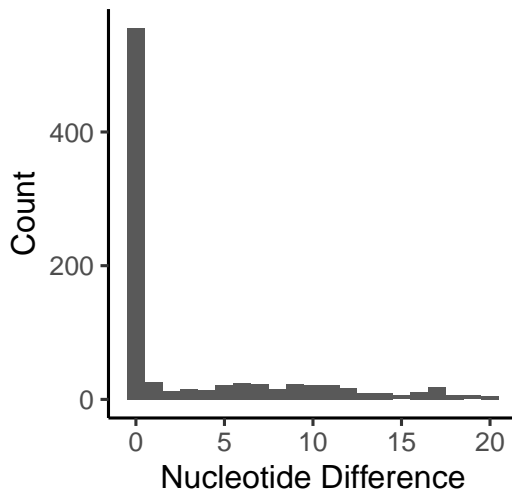
IGHV4-4*02_03

1080 sequences assigned
525 (48.6%) exact matches, in which:
518 unique CDR3
7 unique J



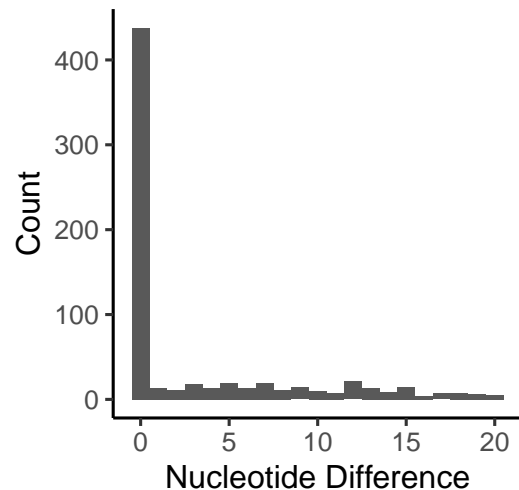
IGHV4-30-2*01

1024 sequences assigned
556 (54.3%) exact matches, in which:
539 unique CDR3
7 unique J



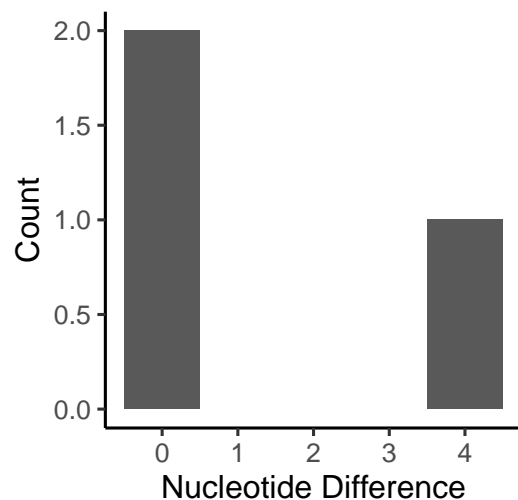
IGHV4-31*02

744 sequences assigned
438 (58.9%) exact matches, in which:
431 unique CDR3
7 unique J



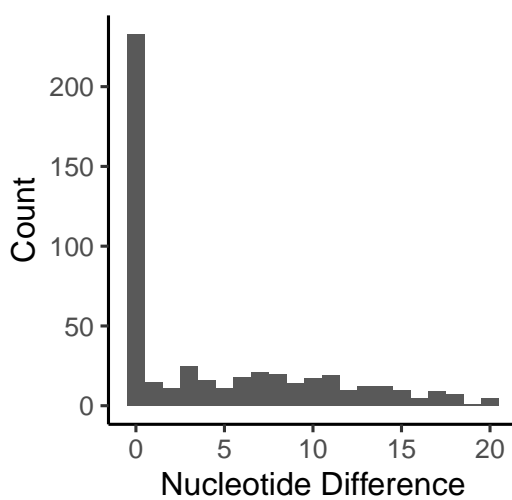
IGHV4-28*03

3 sequences assigned
2 (66.7%) exact matches, in which:
2 unique CDR3
2 unique J



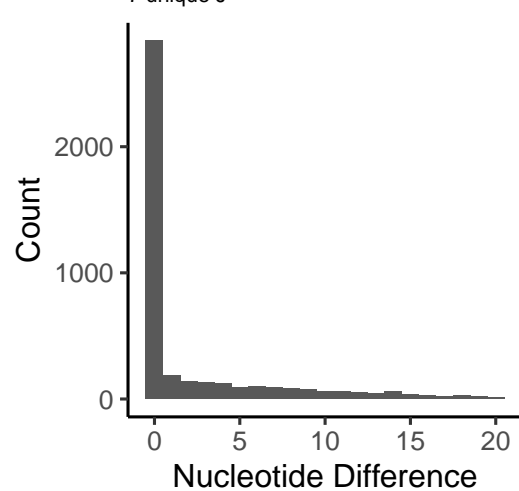
IGHV4-30-4*01

525 sequences assigned
233 (44.4%) exact matches, in which:
227 unique CDR3
5 unique J



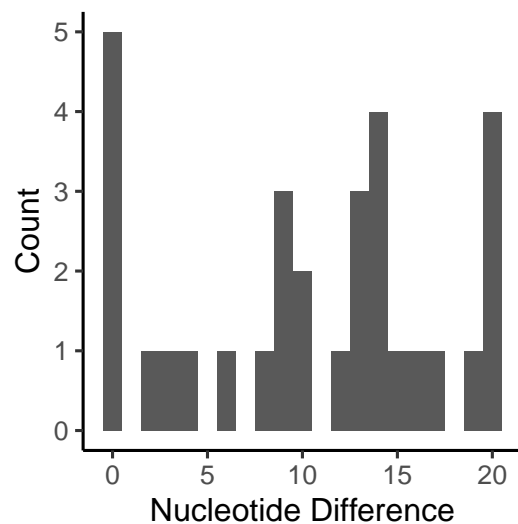
IGHV4-34*01_02

4434 sequences assigned
2840 (64.1%) exact matches, in which:
2734 unique CDR3
7 unique J



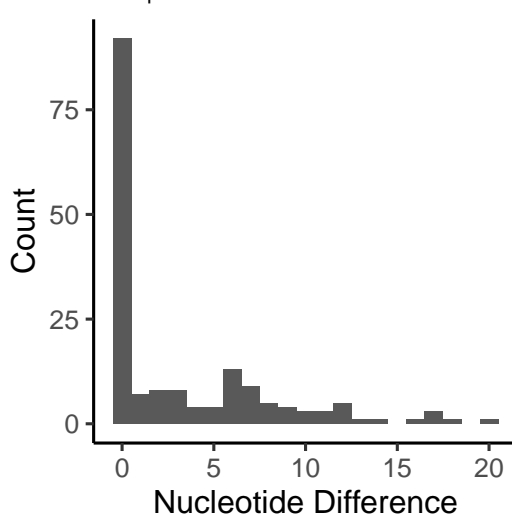
IGHV4-28*01_07

37 sequences assigned
5 (13.5%) exact matches, in which:
4 unique CDR3
4 unique J



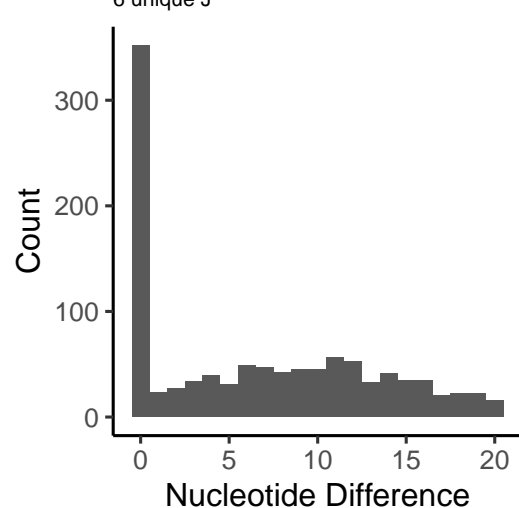
IGHV4-31*01

179 sequences assigned
92 (51.4%) exact matches, in which:
92 unique CDR3
5 unique J



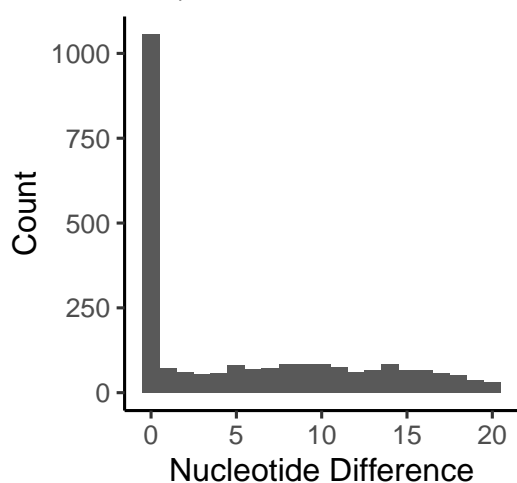
IGHV4-38-2*02_A70G

1166 sequences assigned
352 (30.2%) exact matches, in which:
345 unique CDR3
6 unique J



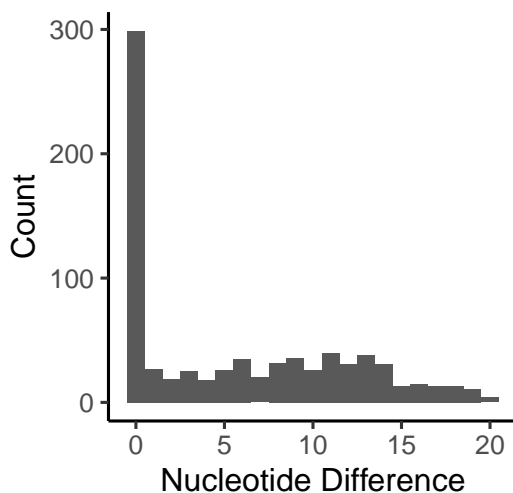
IGHV4–39*02_C258G

2539 sequences assigned
1056 (41.6%) exact matches, in which:
1034 unique CDR3
7 unique J



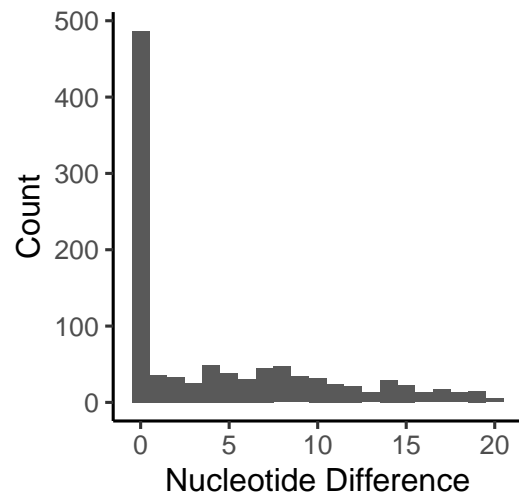
IGHV4–61*01

833 sequences assigned
299 (35.9%) exact matches, in which:
292 unique CDR3
7 unique J



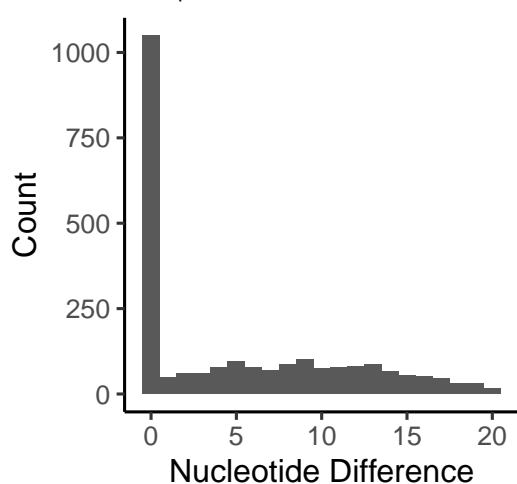
IGHV5–51*07_A128G

1080 sequences assigned
487 (45.1%) exact matches, in which:
486 unique CDR3
7 unique J



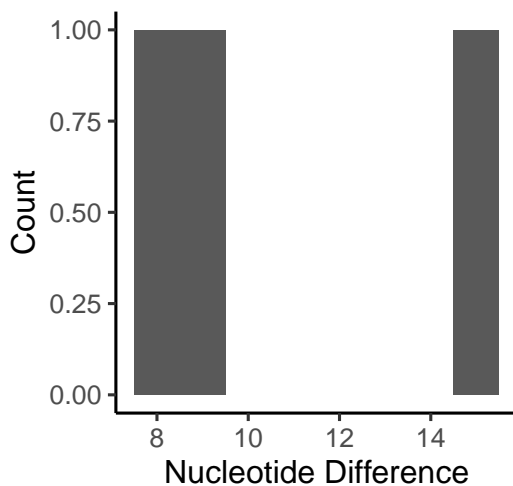
IGHV4–59*08

2525 sequences assigned
1049 (41.5%) exact matches, in which:
1014 unique CDR3
7 unique J



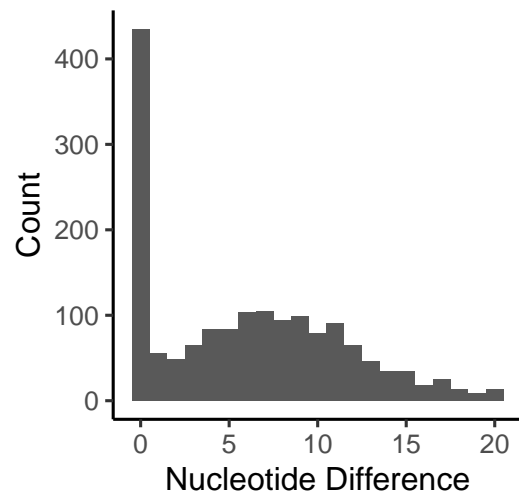
IGHV4/OR15–8*01

3 sequences assigned
No exact matches.



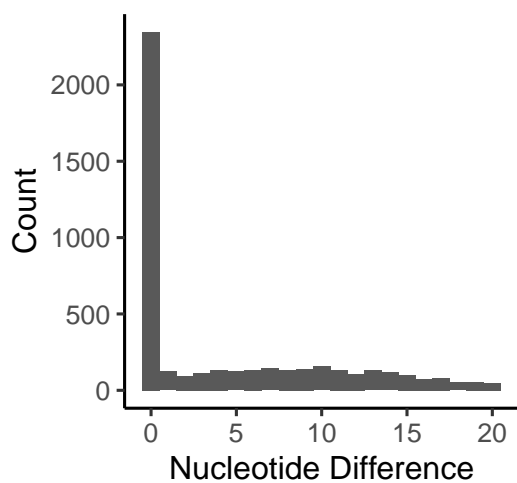
IGHV6–1*01_02

1653 sequences assigned
435 (26.3%) exact matches, in which:
435 unique CDR3
7 unique J



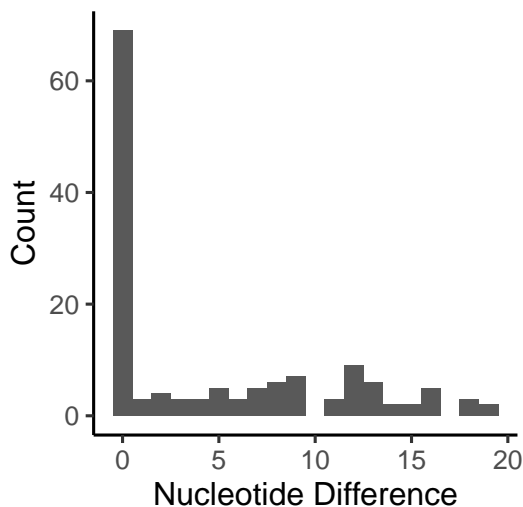
IGHV4–59*02_G88A

4813 sequences assigned
2346 (48.7%) exact matches, in which:
2287 unique CDR3
7 unique J



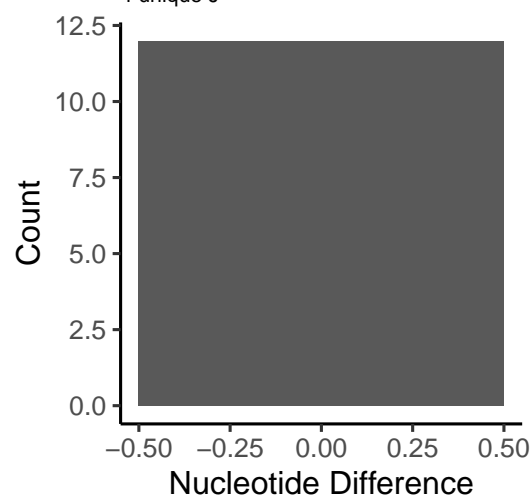
IGHV5–10–1*01_03

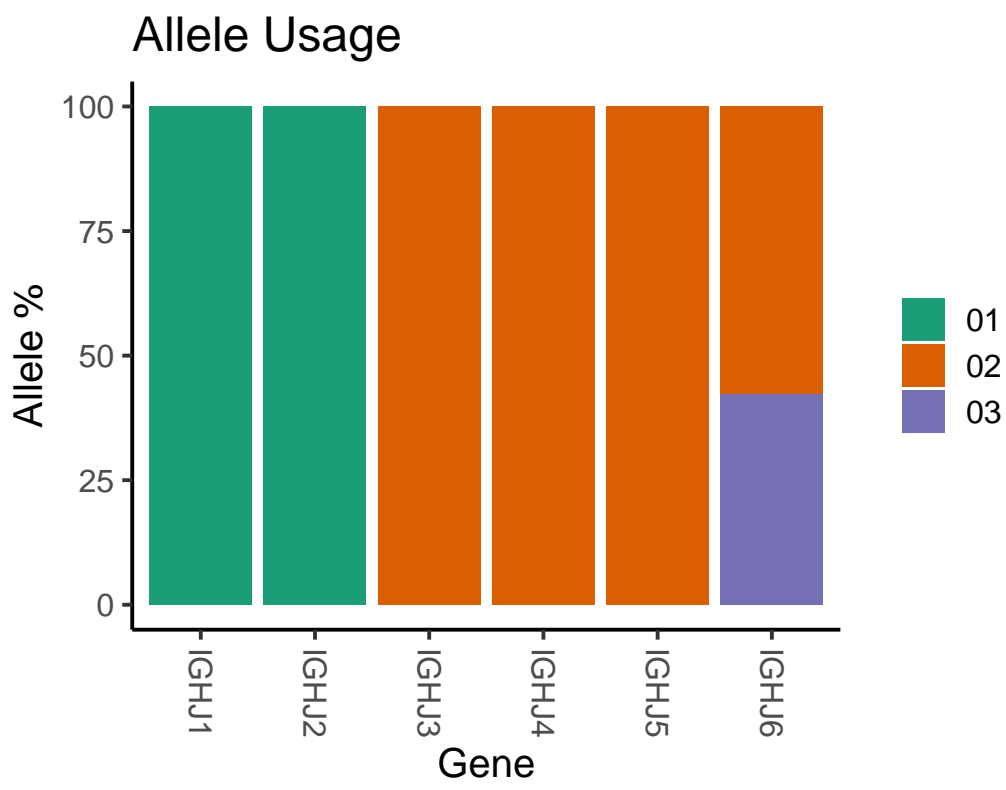
152 sequences assigned
69 (45.4%) exact matches, in which:
69 unique CDR3
5 unique J



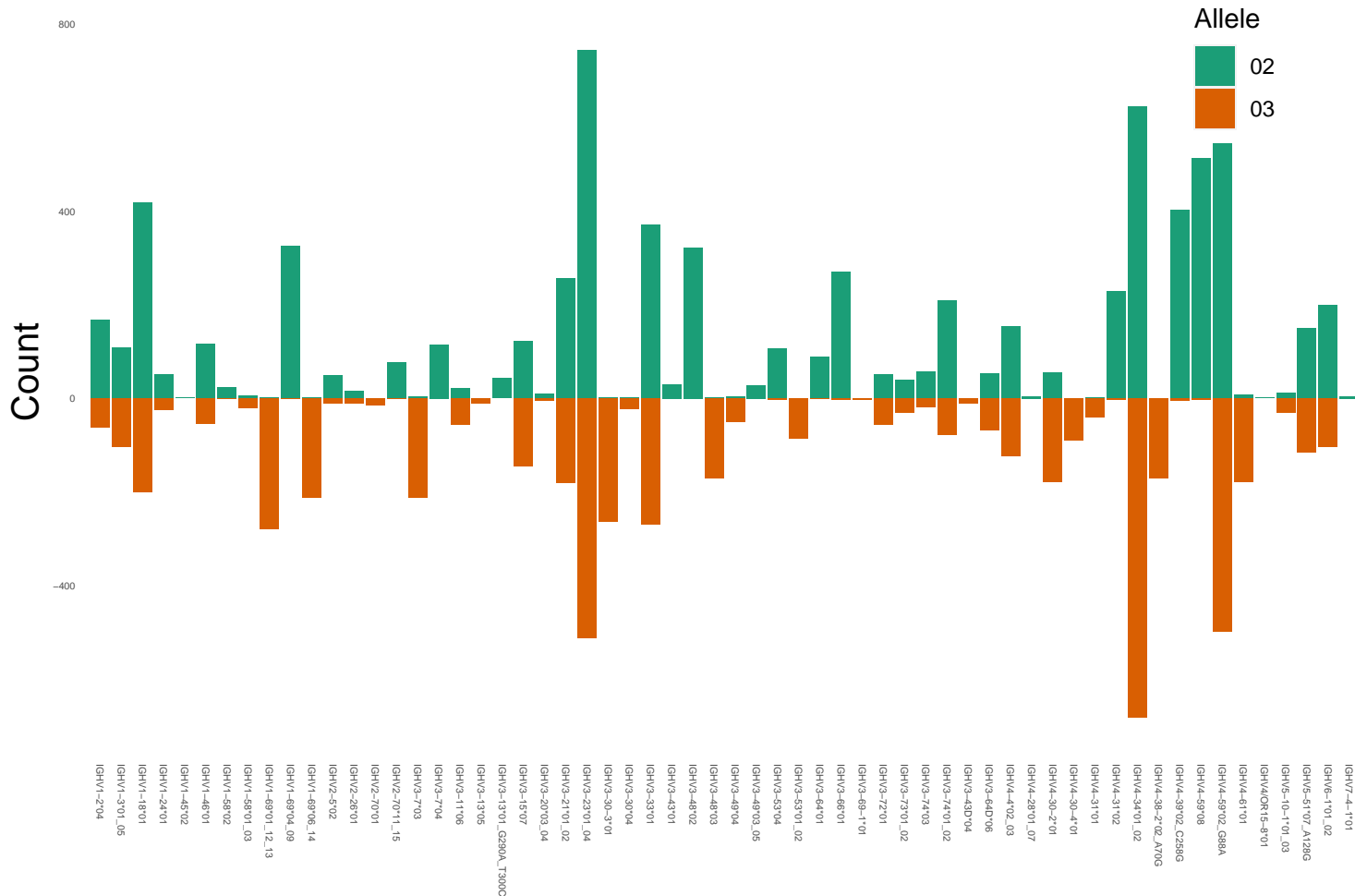
IGHV7–4–1*01

12 sequences assigned
12 (100%) exact matches, in which:
12 unique CDR3
4 unique J





Sequence Count byIGHJ6 allele usage



Warning – no inferred sequences found.