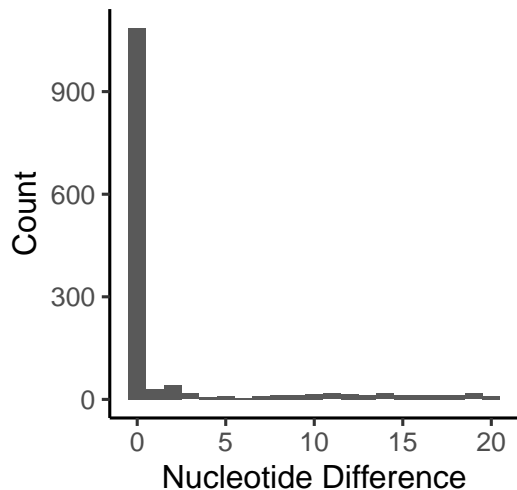


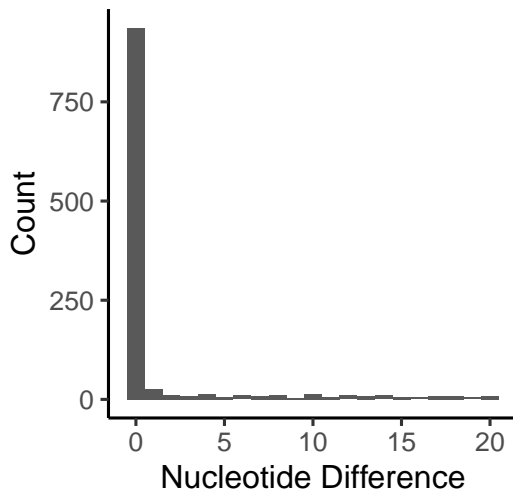
IGHV1-2*02

1463 sequences assigned
1087 (74.3%) exact matches, in which:
1083 unique CDR3
6 unique J



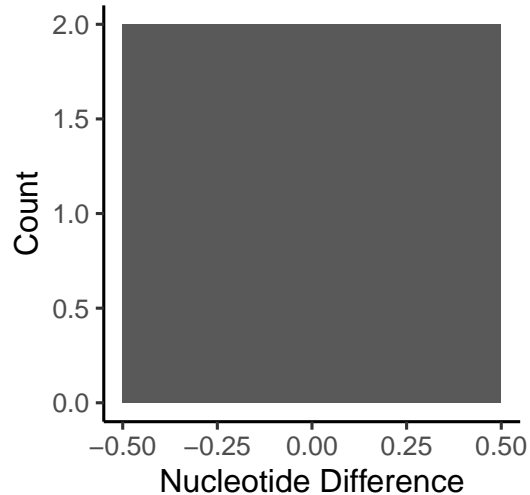
IGHV1-18*01

1185 sequences assigned
937 (79.1%) exact matches, in which:
931 unique CDR3
7 unique J



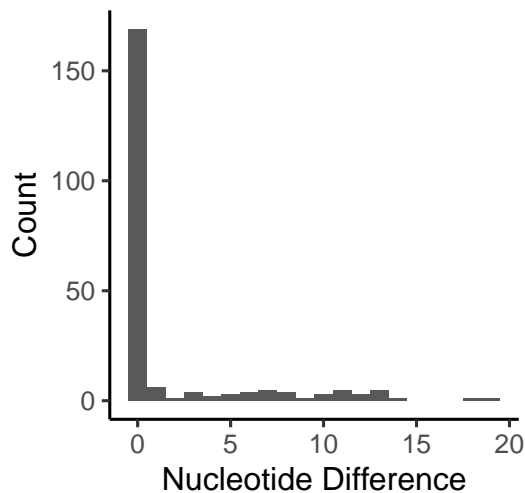
IGHV1-45*02

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



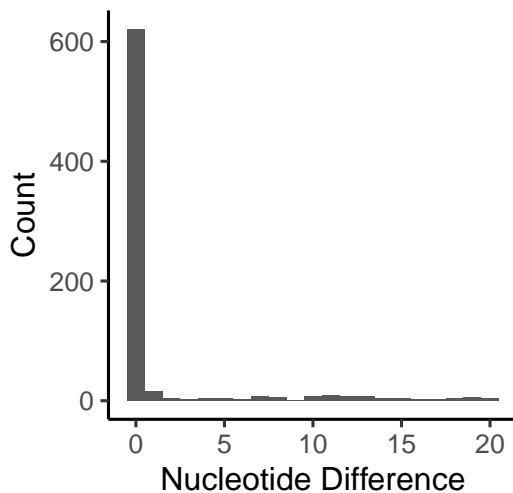
IGHV1-3*01_05

238 sequences assigned
169 (71%) exact matches, in which:
169 unique CDR3
6 unique J



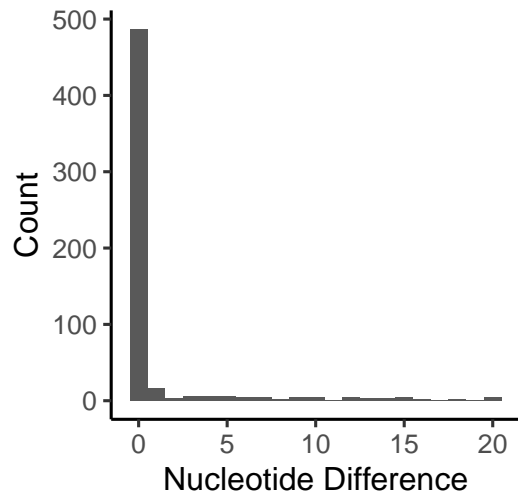
IGHV1-18*04

753 sequences assigned
621 (82.5%) exact matches, in which:
620 unique CDR3
6 unique J



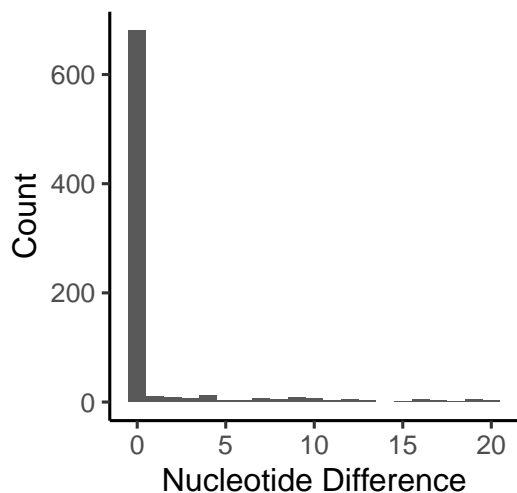
IGHV1-46*01

598 sequences assigned
487 (81.4%) exact matches, in which:
487 unique CDR3
7 unique J



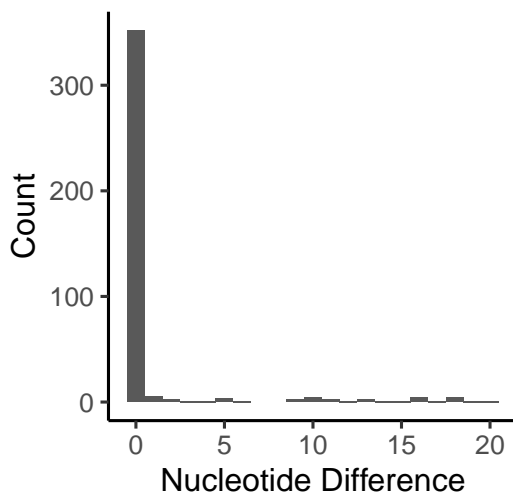
IGHV1-8*01

794 sequences assigned
681 (85.8%) exact matches, in which:
676 unique CDR3
7 unique J



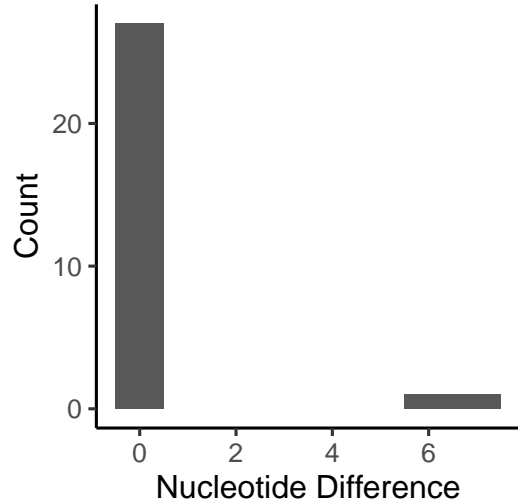
IGHV1-24*01

406 sequences assigned
352 (86.7%) exact matches, in which:
352 unique CDR3
7 unique J



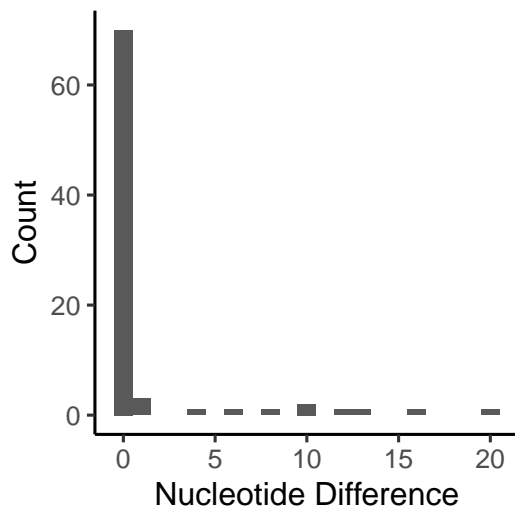
IGHV1-58*02

32 sequences assigned
27 (84.4%) exact matches, in which:
27 unique CDR3
5 unique J



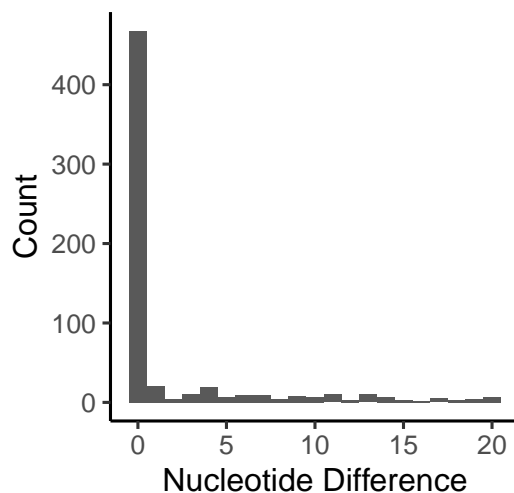
IGHV1-58*01_03

86 sequences assigned
70 (81.4%) exact matches, in which:
70 unique CDR3
5 unique J



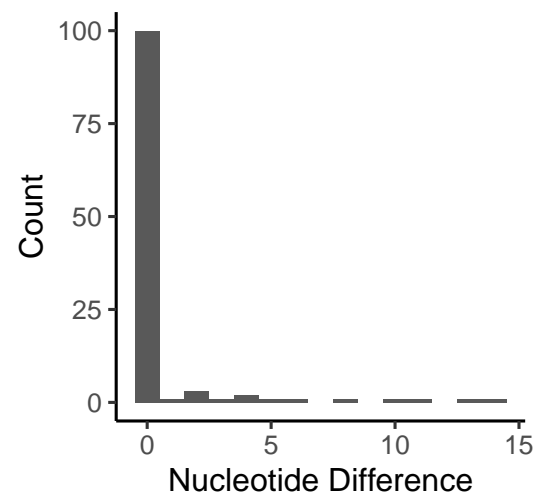
IGHV2-5*01

633 sequences assigned
468 (73.9%) exact matches, in which:
467 unique CDR3
7 unique J



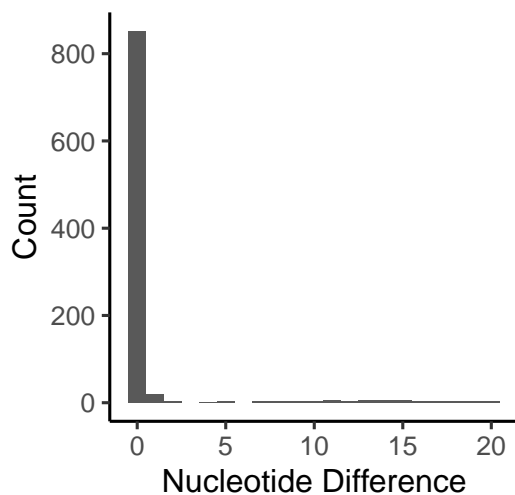
IGHV2-70*01

117 sequences assigned
100 (85.5%) exact matches, in which:
97 unique CDR3
6 unique J



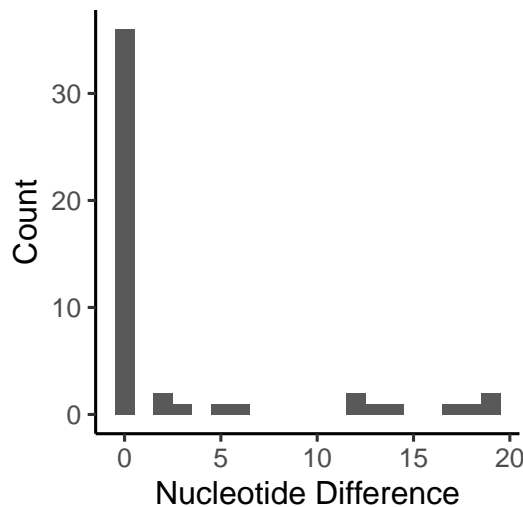
IGHV1-69*01_12_13

990 sequences assigned
852 (86.1%) exact matches, in which:
852 unique CDR3
7 unique J



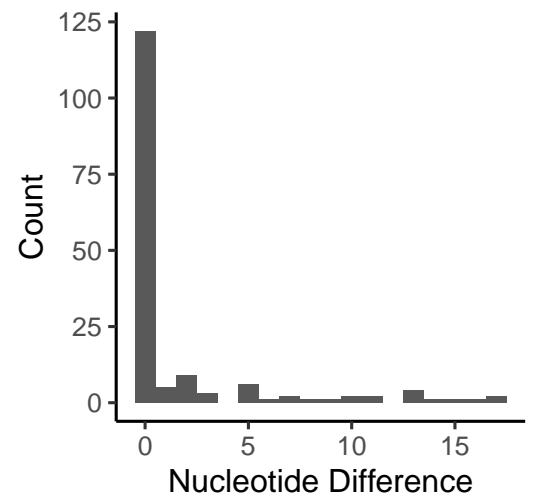
IGHV2-26*01

53 sequences assigned
36 (67.9%) exact matches, in which:
36 unique CDR3
5 unique J



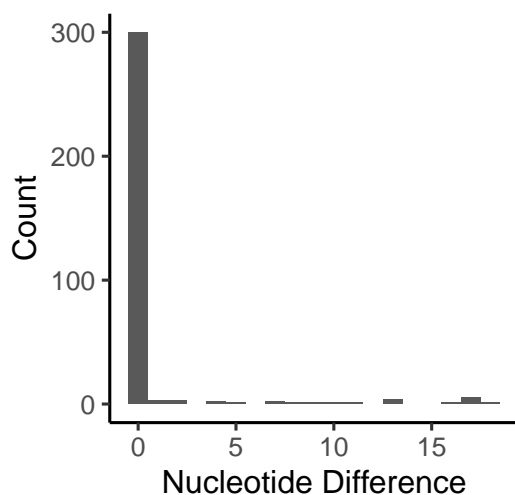
IGHV2-70*11_15

164 sequences assigned
122 (74.4%) exact matches, in which:
119 unique CDR3
4 unique J



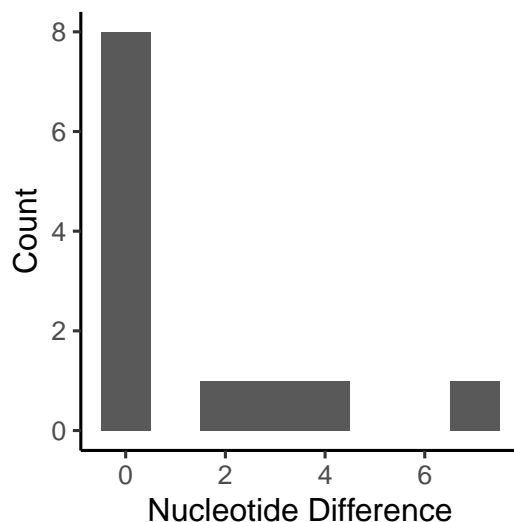
IGHV1-69*04_09

334 sequences assigned
300 (89.8%) exact matches, in which:
300 unique CDR3
6 unique J



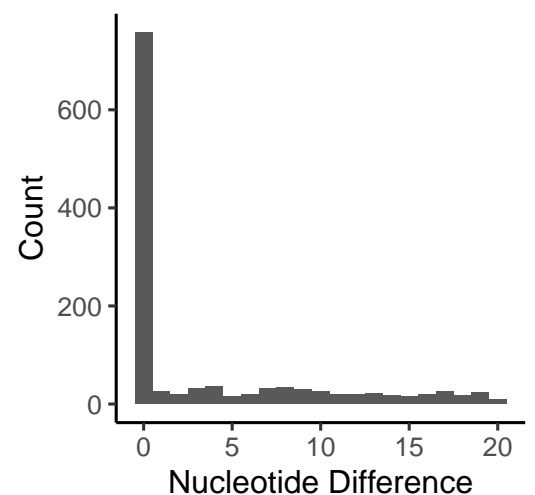
IGHV2-26*04

12 sequences assigned
8 (66.7%) exact matches, in which:
8 unique CDR3
5 unique J



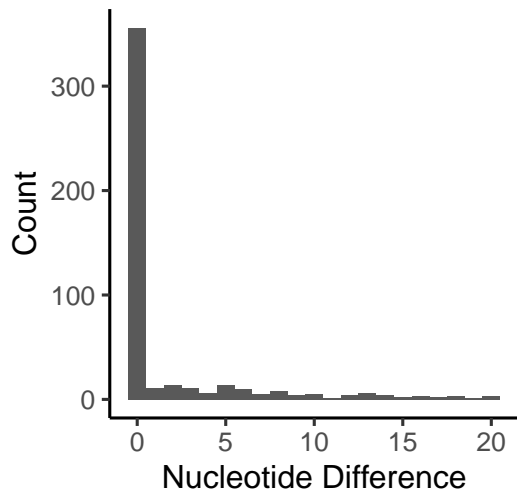
IGHV3-7*01

1285 sequences assigned
758 (59%) exact matches, in which:
744 unique CDR3
7 unique J



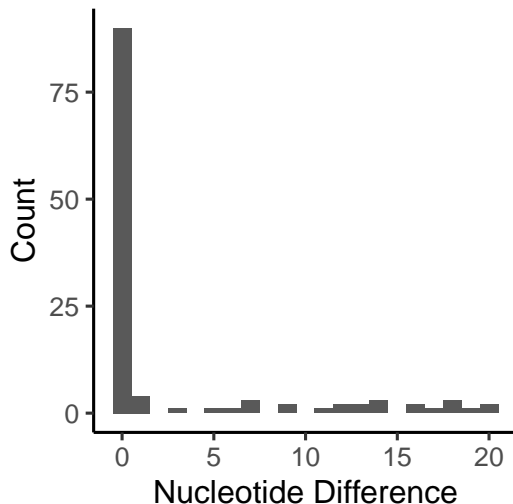
IGHV3-9*01

484 sequences assigned
356 (73.6%) exact matches, in which:
350 unique CDR3
6 unique J



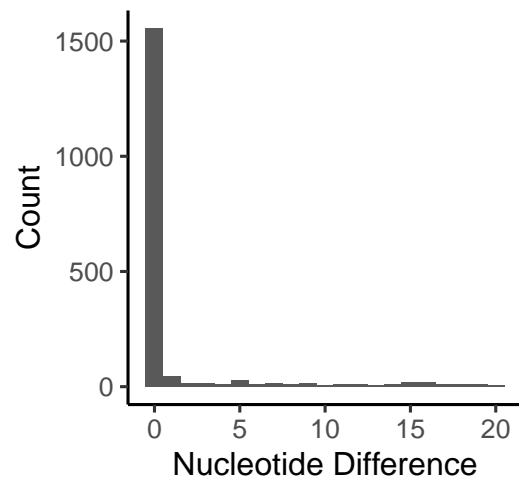
IGHV3-13*01

123 sequences assigned
90 (73.2%) exact matches, in which:
89 unique CDR3
5 unique J



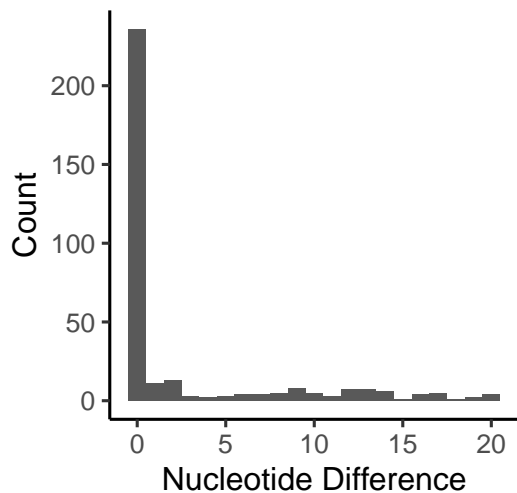
IGHV3-21*01_02

1888 sequences assigned
1555 (82.4%) exact matches, in which:
1511 unique CDR3
7 unique J



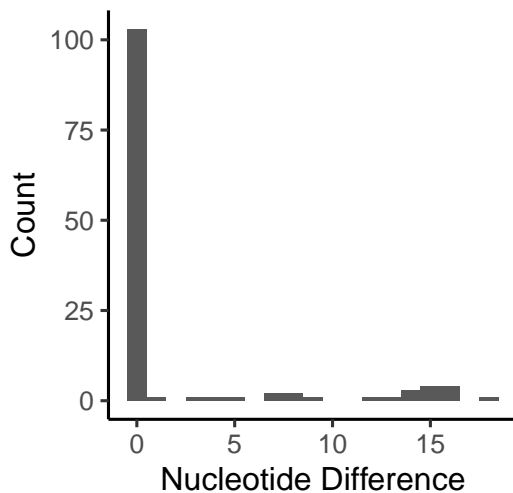
IGHV3-11*01

350 sequences assigned
236 (67.4%) exact matches, in which:
234 unique CDR3
6 unique J



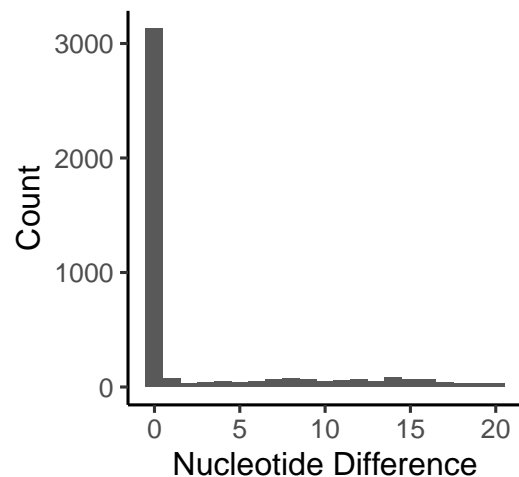
IGHV3-13*04

131 sequences assigned
103 (78.6%) exact matches, in which:
103 unique CDR3
5 unique J



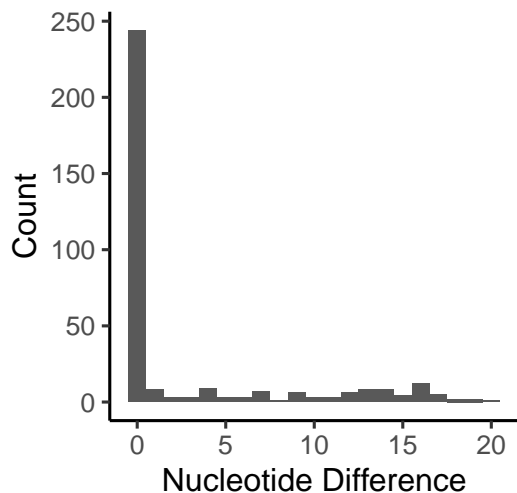
IGHV3-23*01_04

4396 sequences assigned
3129 (71.2%) exact matches, in which:
3062 unique CDR3
7 unique J



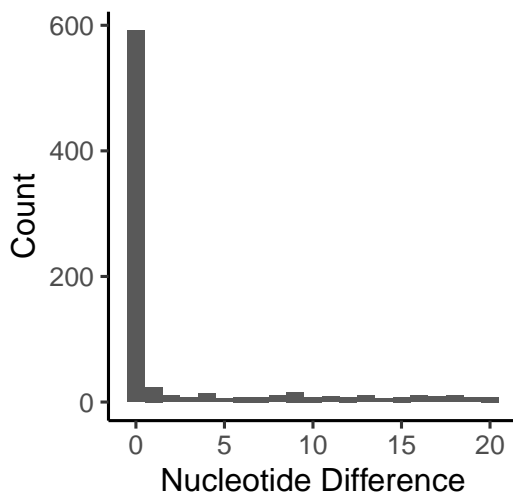
IGHV3-11*06_T300C

360 sequences assigned
244 (67.8%) exact matches, in which:
238 unique CDR3
7 unique J



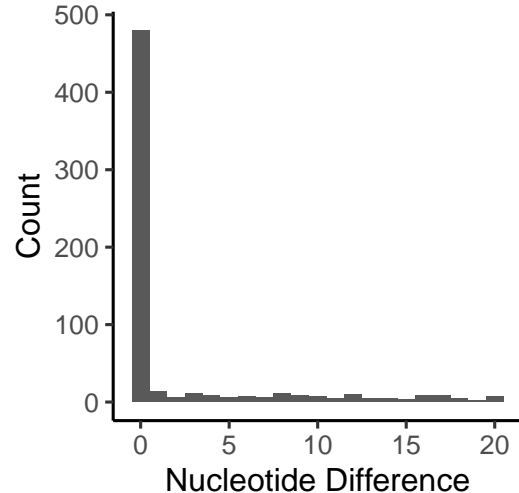
IGHV3-15*01_02

828 sequences assigned
592 (71.5%) exact matches, in which:
588 unique CDR3
7 unique J



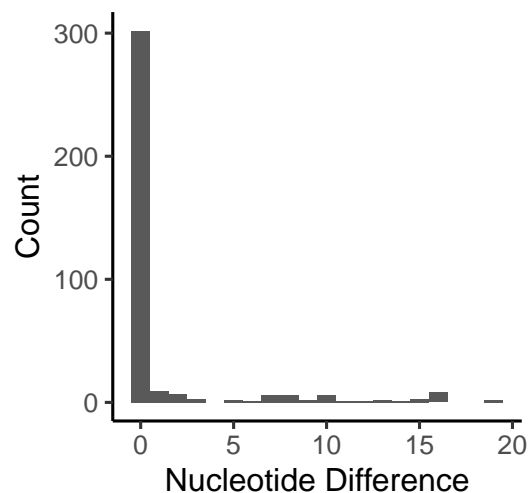
IGHV3-30-3*01

668 sequences assigned
480 (71.9%) exact matches, in which:
476 unique CDR3
6 unique J



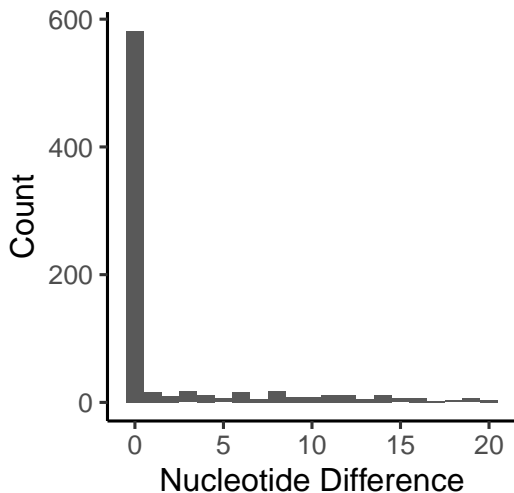
IGHV3–33*01

371 sequences assigned
302 (81.4%) exact matches, in which:
302 unique CDR3
7 unique J



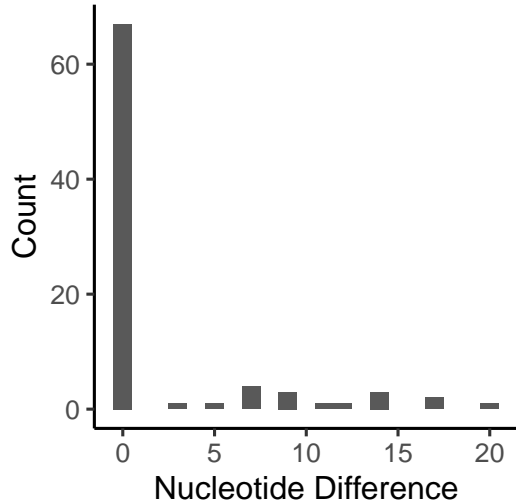
IGHV3–48*02

800 sequences assigned
582 (72.8%) exact matches, in which:
572 unique CDR3
6 unique J



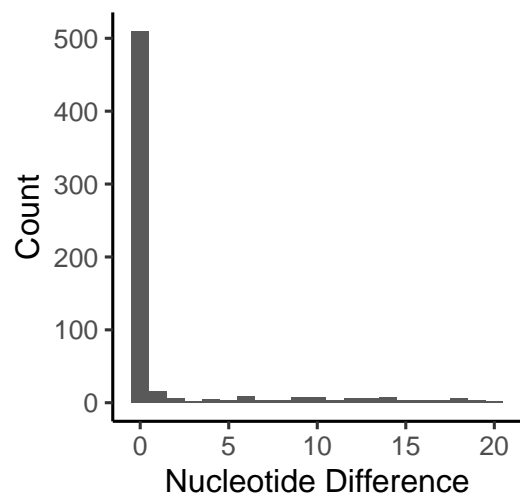
IGHV3–49*03_05

90 sequences assigned
67 (74.4%) exact matches, in which:
66 unique CDR3
5 unique J



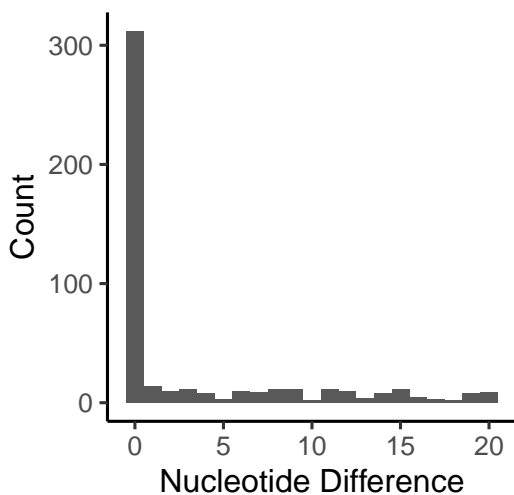
IGHV3–33*08

636 sequences assigned
510 (80.2%) exact matches, in which:
502 unique CDR3
6 unique J



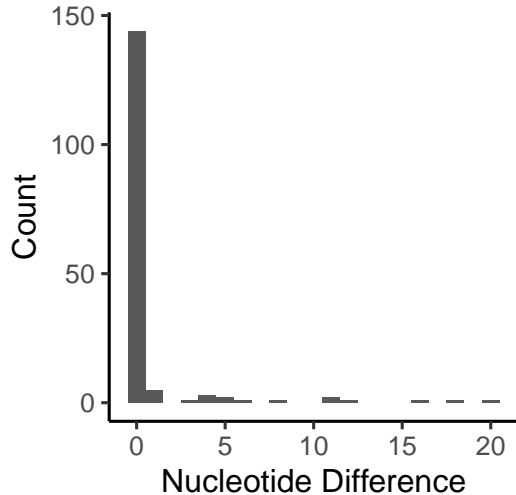
IGHV3–48*03

505 sequences assigned
312 (61.8%) exact matches, in which:
303 unique CDR3
6 unique J



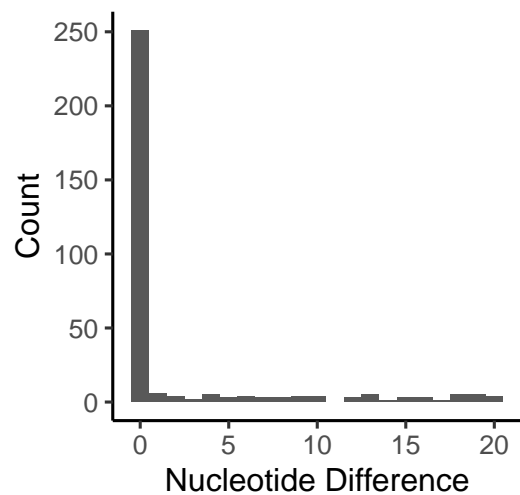
IGHV3–53*04

168 sequences assigned
144 (85.7%) exact matches, in which:
139 unique CDR3
6 unique J



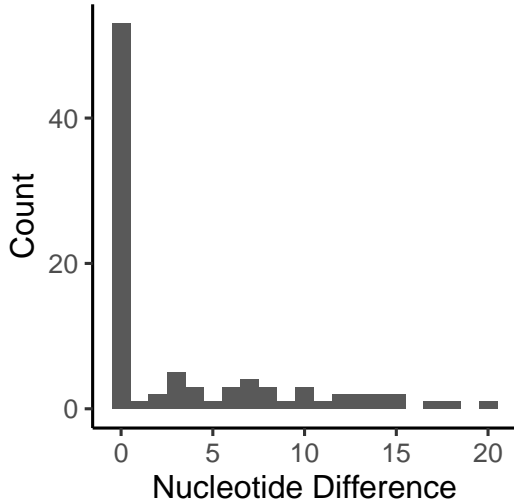
IGHV3–43*02

339 sequences assigned
251 (74%) exact matches, in which:
240 unique CDR3
6 unique J



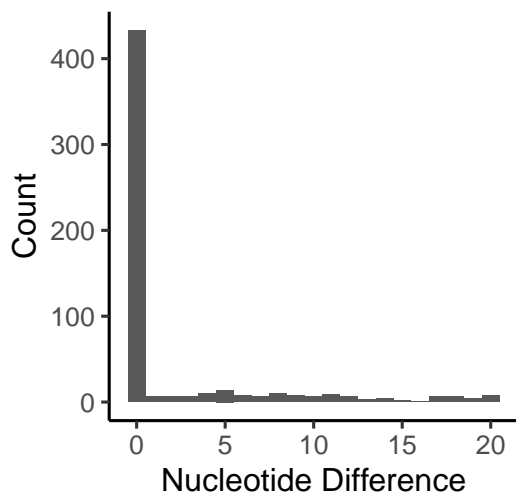
IGHV3–49*04

106 sequences assigned
53 (50%) exact matches, in which:
53 unique CDR3
5 unique J



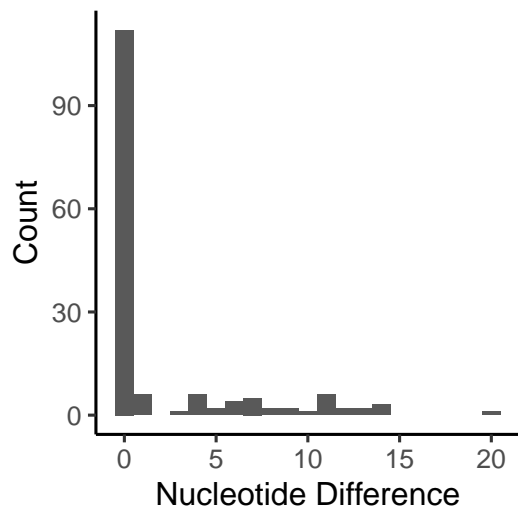
IGHV3–53*01_02

591 sequences assigned
433 (73.3%) exact matches, in which:
425 unique CDR3
6 unique J



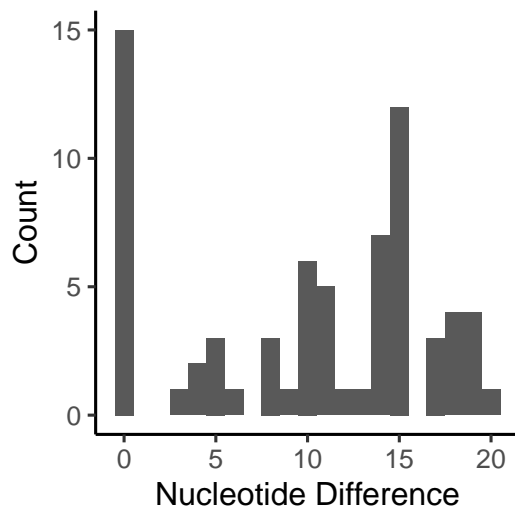
IGHV3-64*01

159 sequences assigned
112 (70.4%) exact matches, in which:
109 unique CDR3
6 unique J



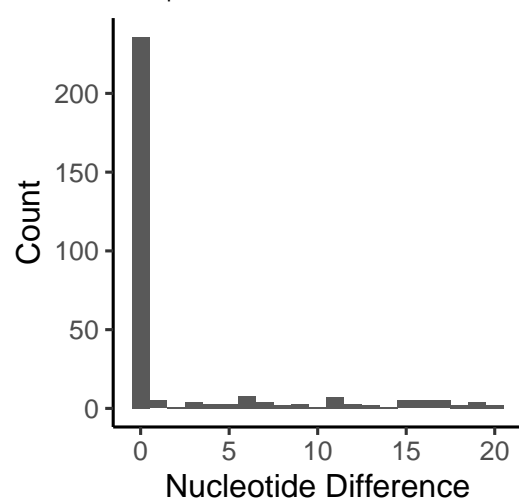
IGHV3-72*01

76 sequences assigned
15 (19.7%) exact matches, in which:
14 unique CDR3
5 unique J



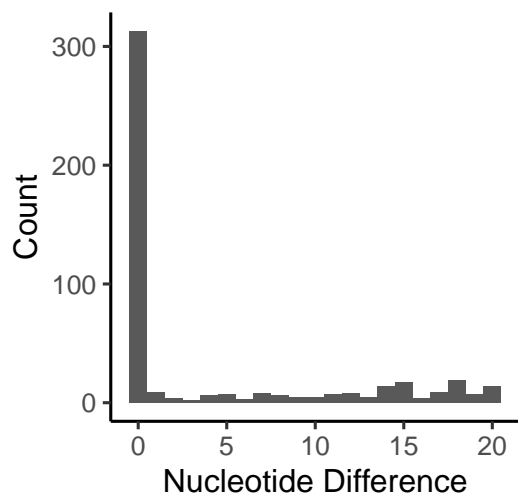
IGHV3-64D*09

326 sequences assigned
236 (72.4%) exact matches, in which:
234 unique CDR3
6 unique J



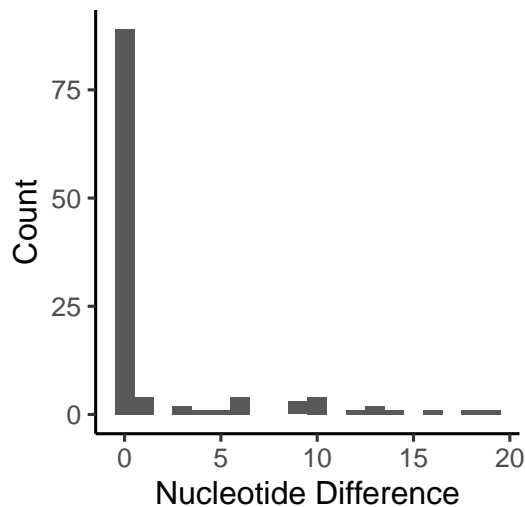
IGHV3-66*01

506 sequences assigned
313 (61.9%) exact matches, in which:
305 unique CDR3
6 unique J



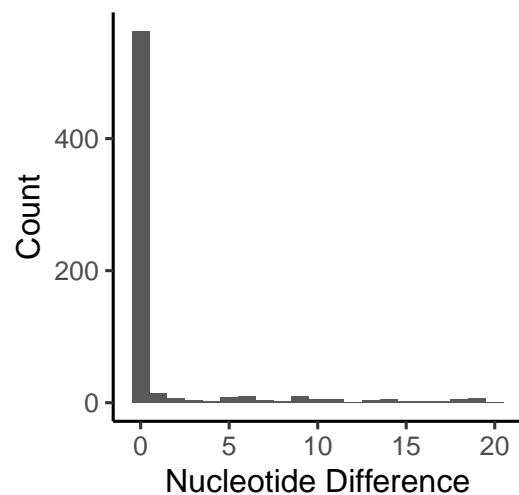
IGHV3-73*01_02

121 sequences assigned
89 (73.6%) exact matches, in which:
89 unique CDR3
6 unique J



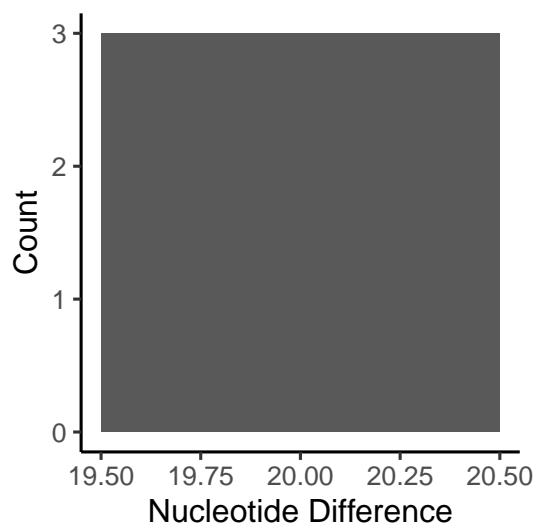
IGHV4-4*07

702 sequences assigned
563 (80.2%) exact matches, in which:
541 unique CDR3
6 unique J



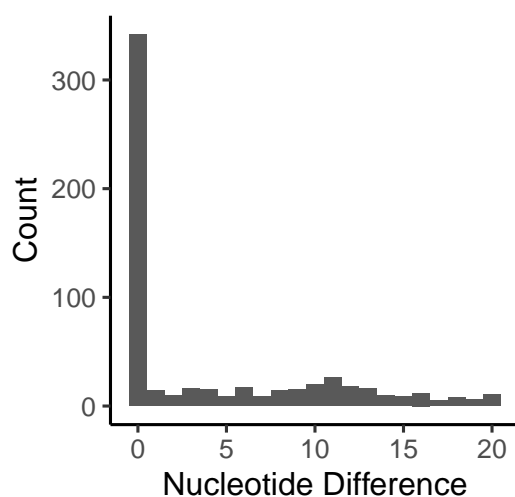
IGHV3-69-1*01

10 sequences assigned
No exact matches.



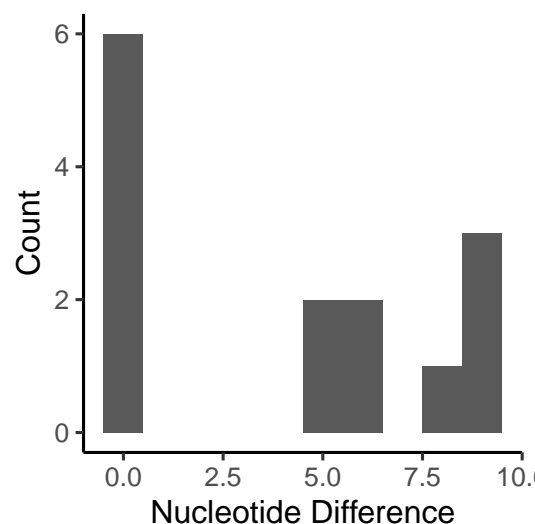
IGHV3-74*01_02

655 sequences assigned
342 (52.2%) exact matches, in which:
335 unique CDR3
7 unique J



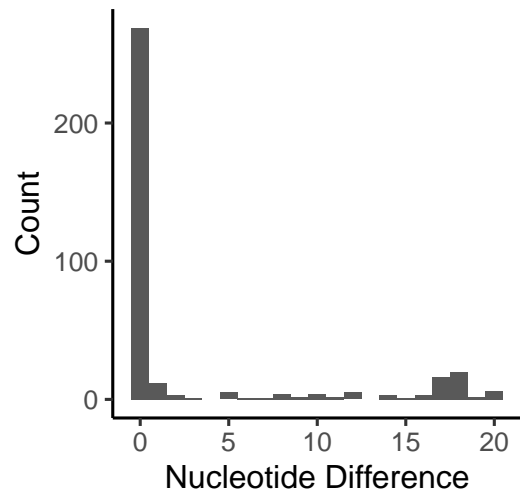
IGHV4-28*01_07

14 sequences assigned
6 (42.9%) exact matches, in which:
6 unique CDR3
4 unique J



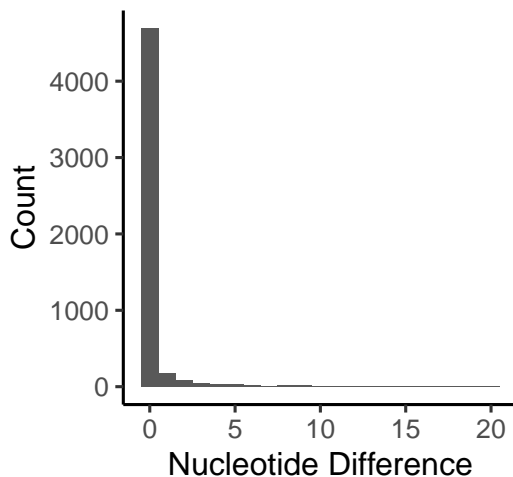
IGHV4-30-2*01

373 sequences assigned
269 (72.1%) exact matches, in which:
267 unique CDR3
6 unique J



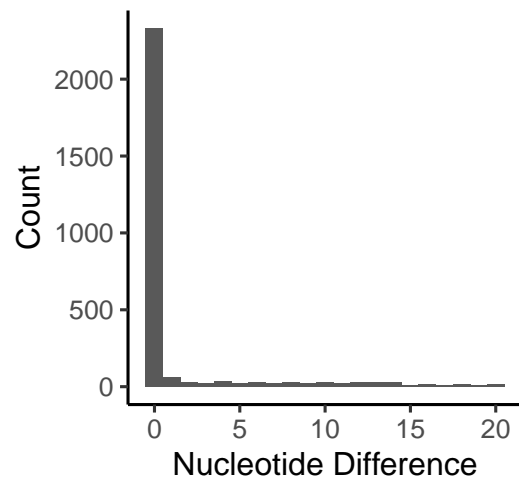
IGHV4-34*01_02

5274 sequences assigned
4691 (88.9%) exact matches, in which:
4571 unique CDR3
7 unique J



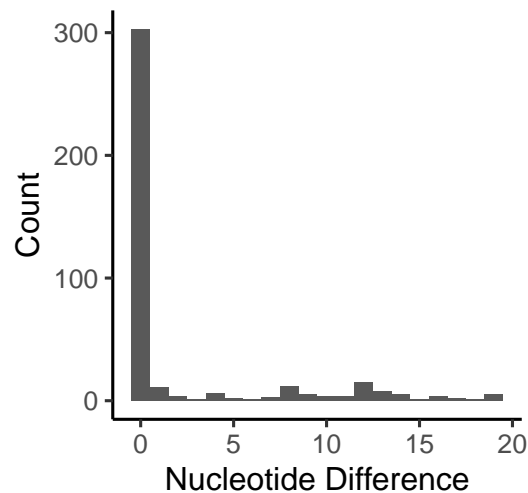
IGHV4-59*02_G88A

2919 sequences assigned
2330 (79.8%) exact matches, in which:
2275 unique CDR3
7 unique J



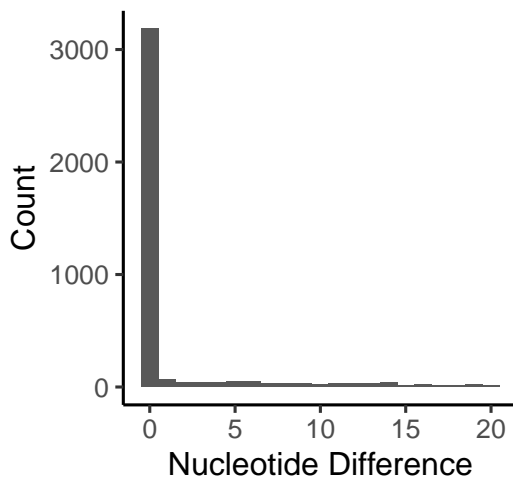
IGHV4-30-4*01

421 sequences assigned
303 (72%) exact matches, in which:
299 unique CDR3
6 unique J



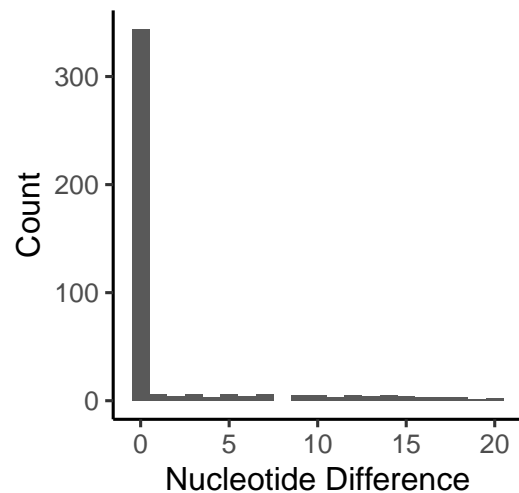
IGHV4-39*02_C258G

3936 sequences assigned
3185 (80.9%) exact matches, in which:
3109 unique CDR3
7 unique J



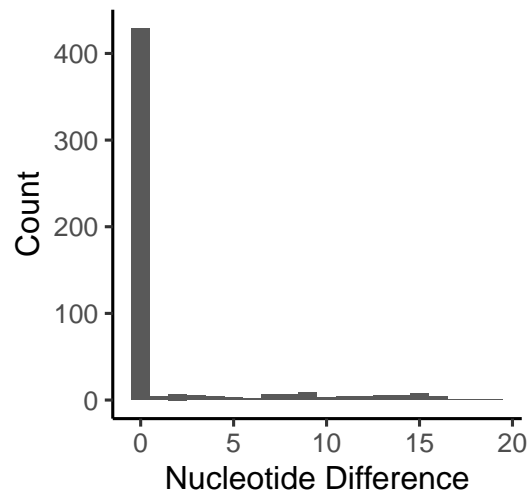
IGHV4-61*01

446 sequences assigned
344 (77.1%) exact matches, in which:
340 unique CDR3
6 unique J



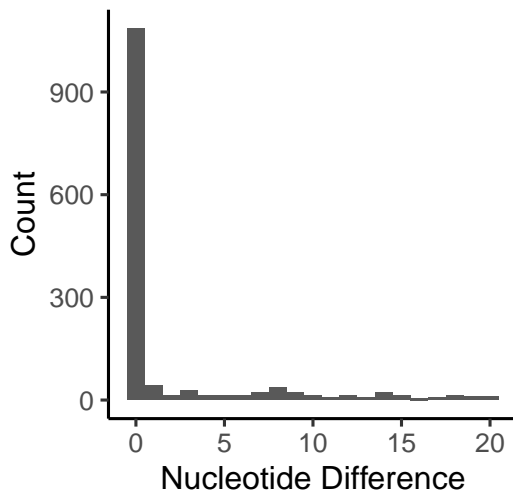
IGHV4-31*02

540 sequences assigned
429 (79.4%) exact matches, in which:
426 unique CDR3
7 unique J



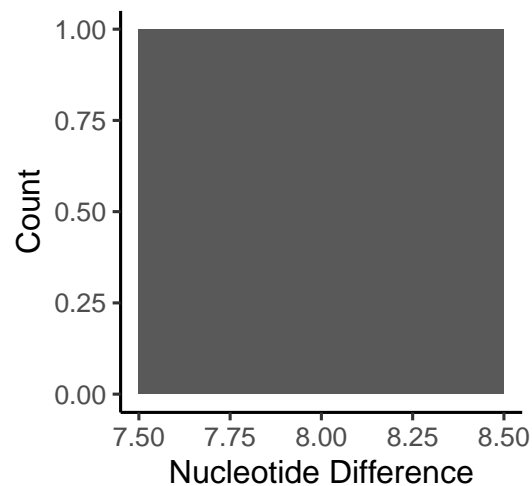
IGHV4-59*08

1455 sequences assigned
1086 (74.6%) exact matches, in which:
1064 unique CDR3
6 unique J



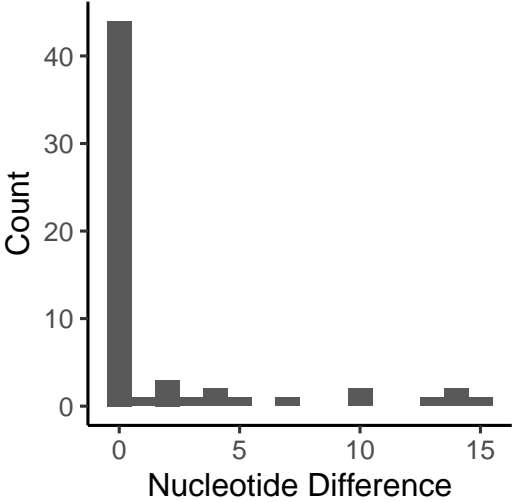
IGHV4/OR15-8*01

2 sequences assigned
No exact matches.



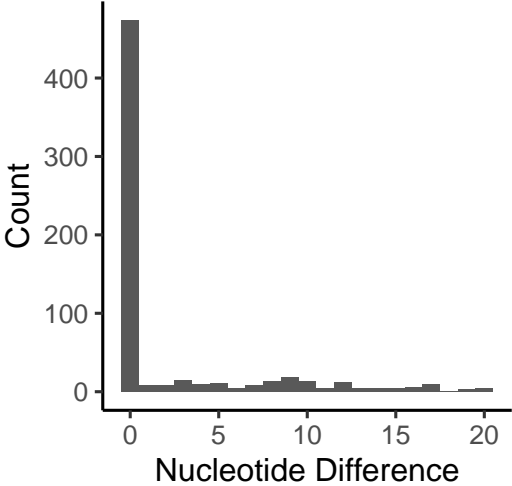
IGHV5-10-1*01_03

66 sequences assigned
44 (66.7%) exact matches, in which:
44 unique CDR3
5 unique J



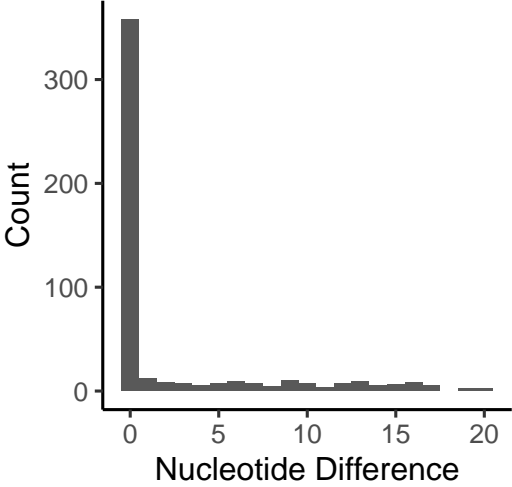
IGHV5-51*07_A128G

655 sequences assigned
474 (72.4%) exact matches, in which:
472 unique CDR3
7 unique J

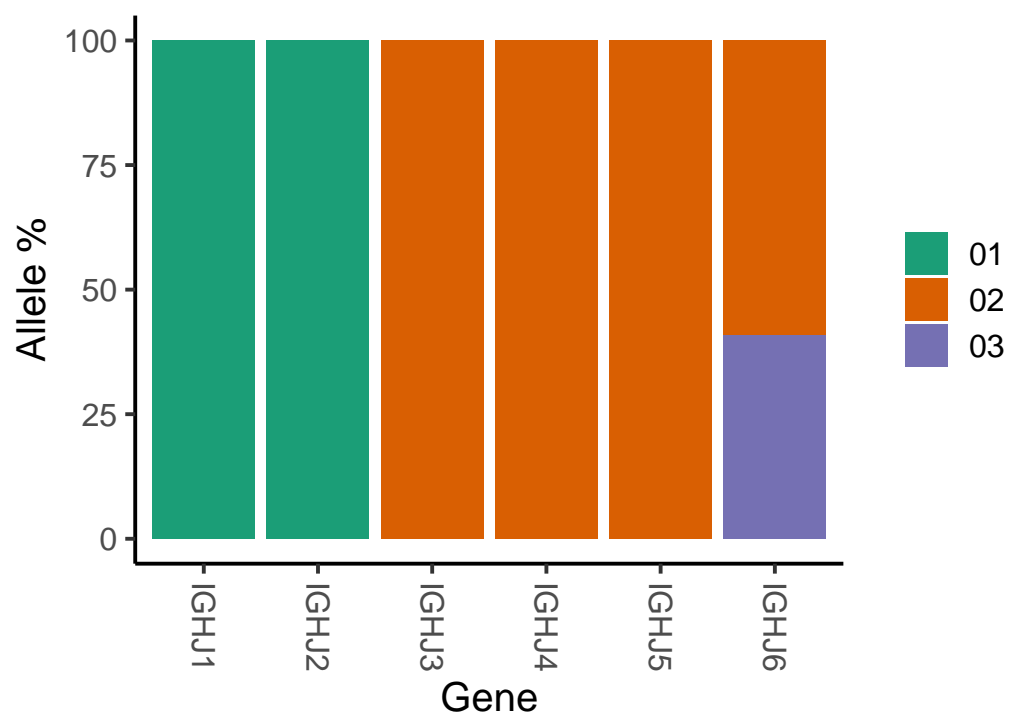


IGHV6-1*01_02

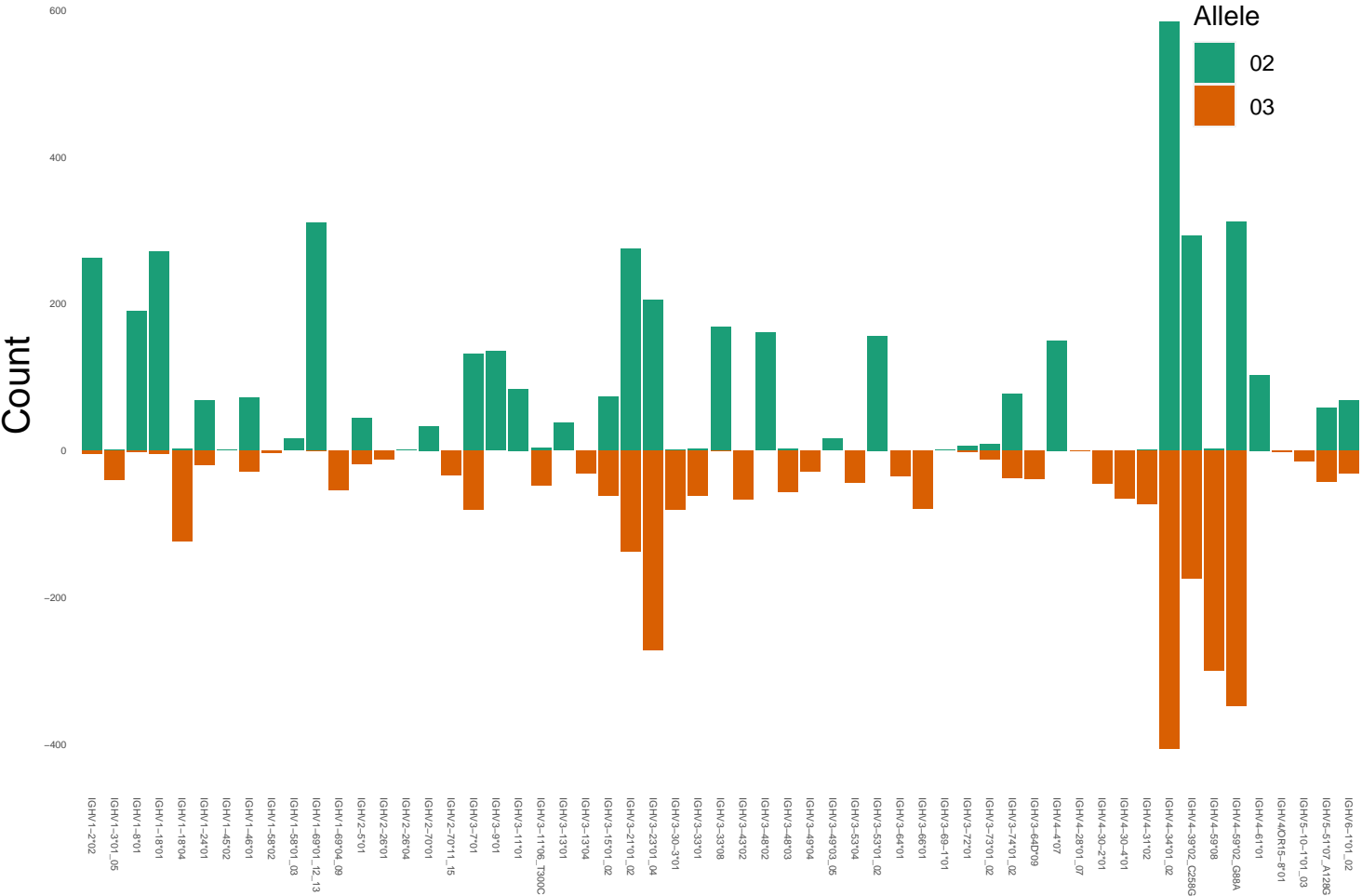
494 sequences assigned
358 (72.5%) exact matches, in which:
357 unique CDR3
7 unique J



Allele Usage



Sequence Count byIGHJ6 allele usage



Warning – no inferred sequences found.