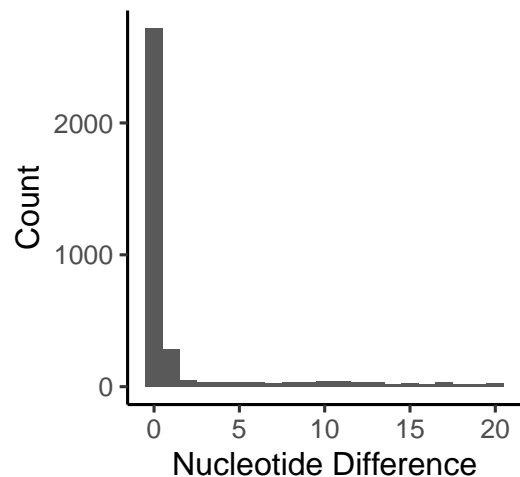


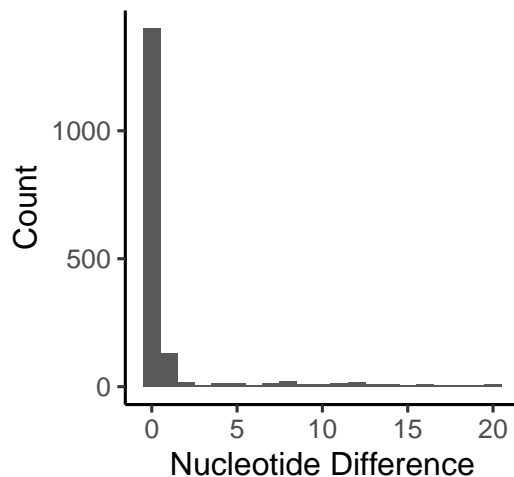
IGHV1-2*02

3747 sequences assigned
2717 (72.5%) exact matches, in which:
2647 unique CDR3
7 unique J



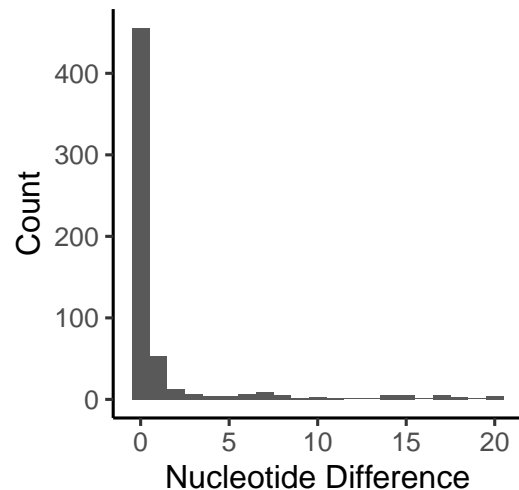
IGHV1-18*01

1836 sequences assigned
1400 (76.3%) exact matches, in which:
1383 unique CDR3
7 unique J



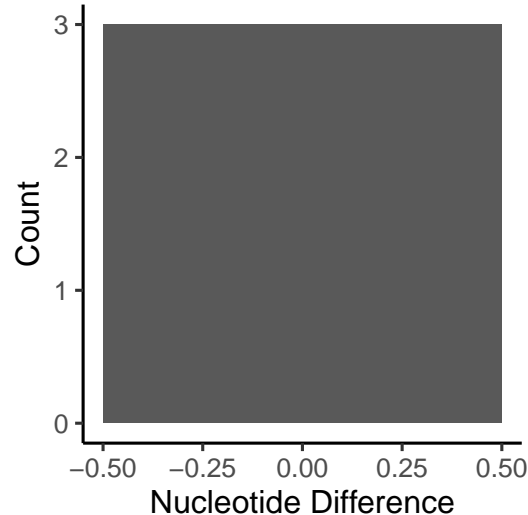
IGHV1-46*01

613 sequences assigned
456 (74.4%) exact matches, in which:
446 unique CDR3
7 unique J



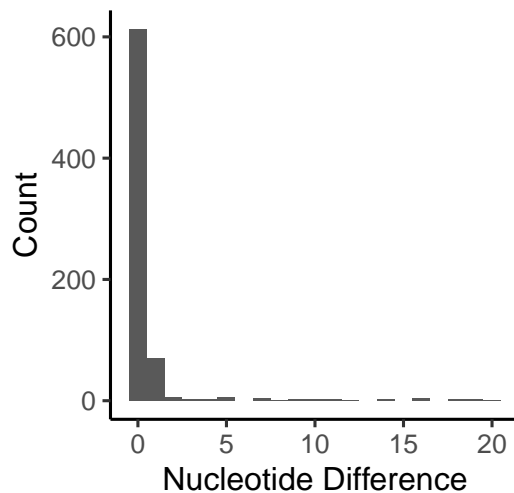
IGHV1-3*02

4 sequences assigned
3 (75%) exact matches, in which:
3 unique CDR3
2 unique J



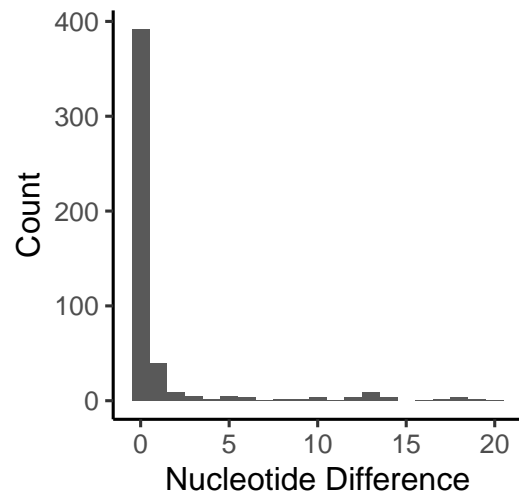
IGHV1-24*01

738 sequences assigned
613 (83.1%) exact matches, in which:
600 unique CDR3
7 unique J



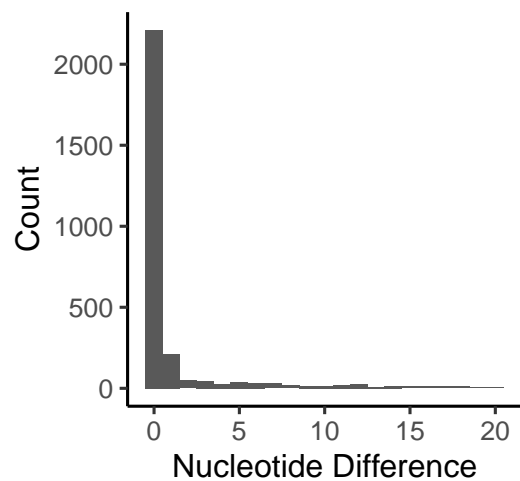
IGHV1-46*03

511 sequences assigned
392 (76.7%) exact matches, in which:
387 unique CDR3
6 unique J



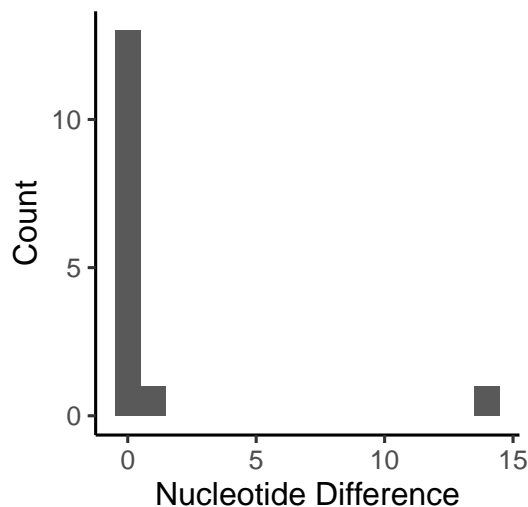
IGHV1-8*01

2869 sequences assigned
2211 (77.1%) exact matches, in which:
2172 unique CDR3
7 unique J



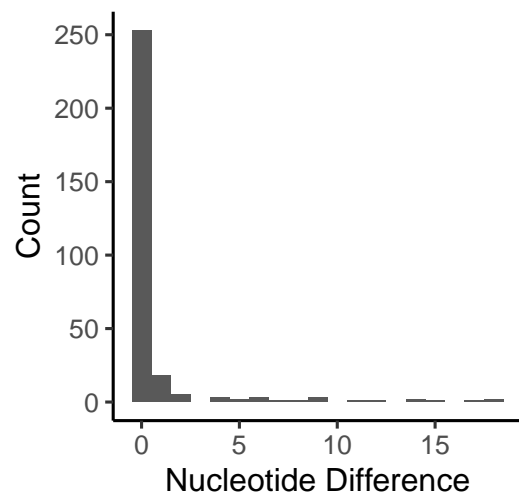
IGHV1-45*02

16 sequences assigned
13 (81.2%) exact matches, in which:
13 unique CDR3
6 unique J



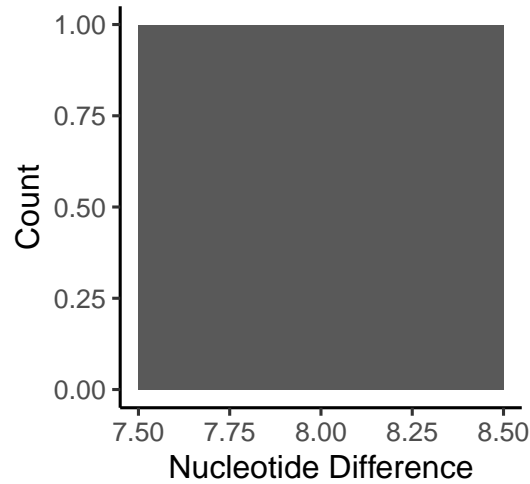
IGHV1-58*01

299 sequences assigned
253 (84.6%) exact matches, in which:
251 unique CDR3
6 unique J



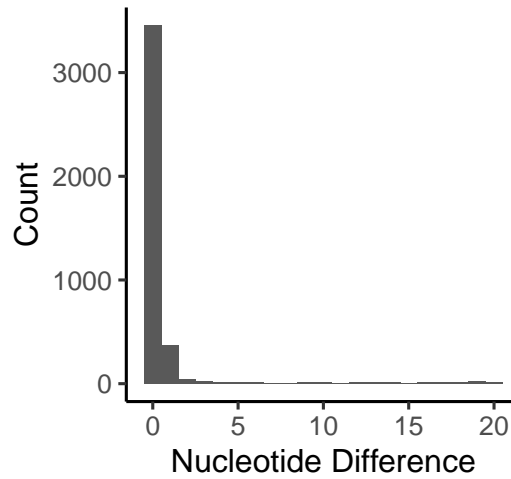
IGHV1-68*01

1 sequences assigned
No exact matches.



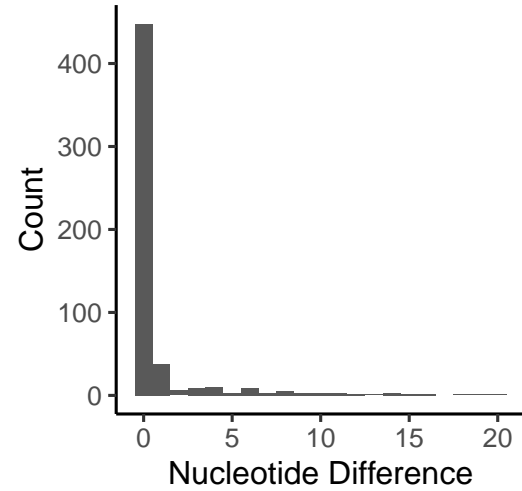
IGHV1-69*06

4202 sequences assigned
3455 (82.2%) exact matches, in which:
3393 unique CDR3
7 unique J



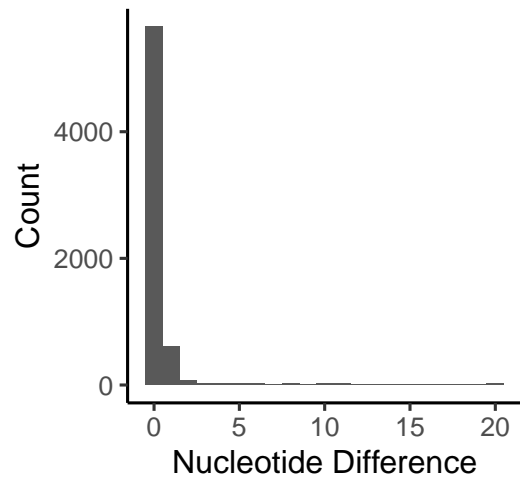
IGHV2-26*01

561 sequences assigned
448 (79.9%) exact matches, in which:
445 unique CDR3
7 unique J



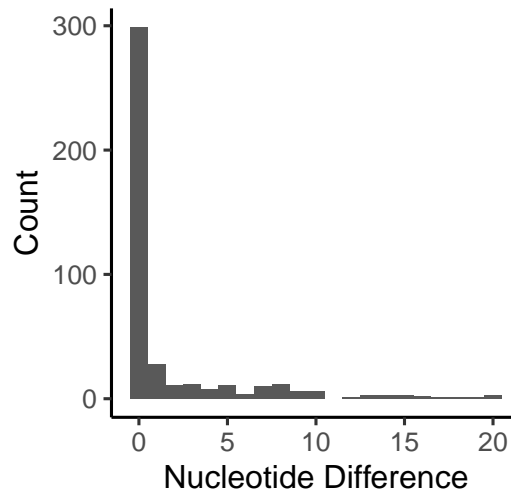
IGHV1-69*01

6743 sequences assigned
5658 (83.9%) exact matches, in which:
5560 unique CDR3
7 unique J



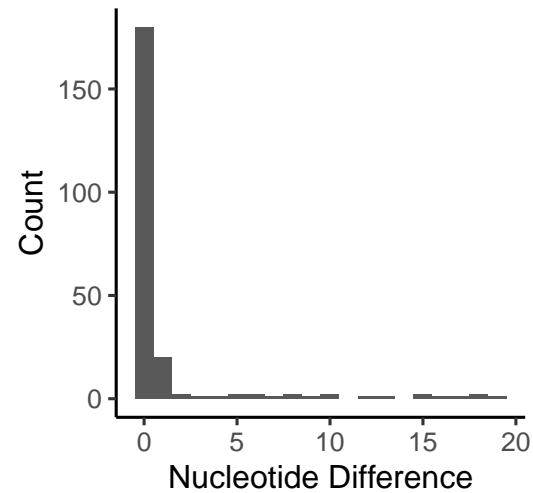
IGHV2-5*01

450 sequences assigned
299 (66.4%) exact matches, in which:
297 unique CDR3
7 unique J



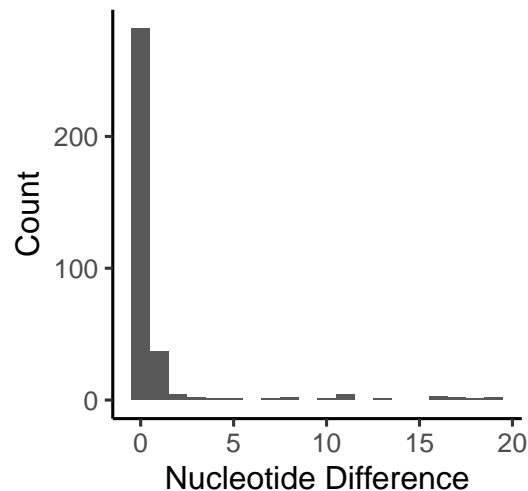
IGHV2-70*01

230 sequences assigned
180 (78.3%) exact matches, in which:
179 unique CDR3
7 unique J



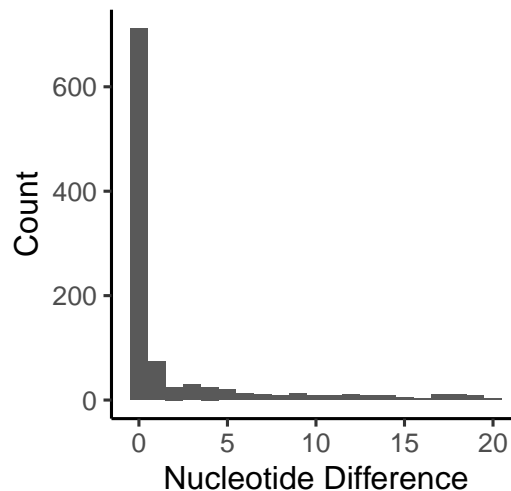
IGHV1-69-2*01

357 sequences assigned
282 (79%) exact matches, in which:
280 unique CDR3
7 unique J



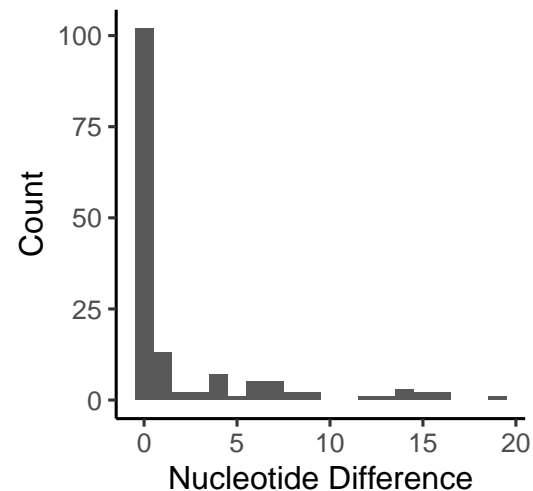
IGHV2-5*02

1043 sequences assigned
712 (68.3%) exact matches, in which:
702 unique CDR3
7 unique J



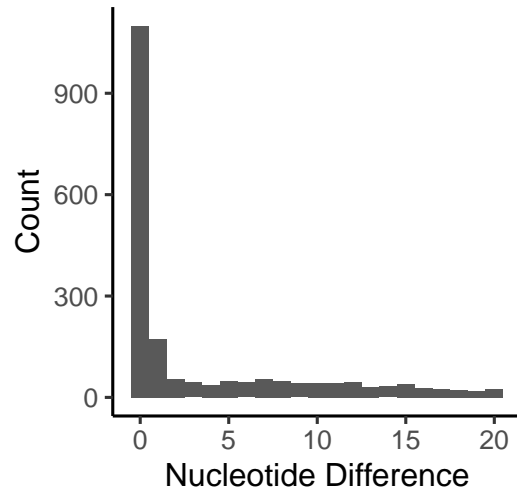
IGHV2-70*04

155 sequences assigned
102 (65.8%) exact matches, in which:
102 unique CDR3
6 unique J



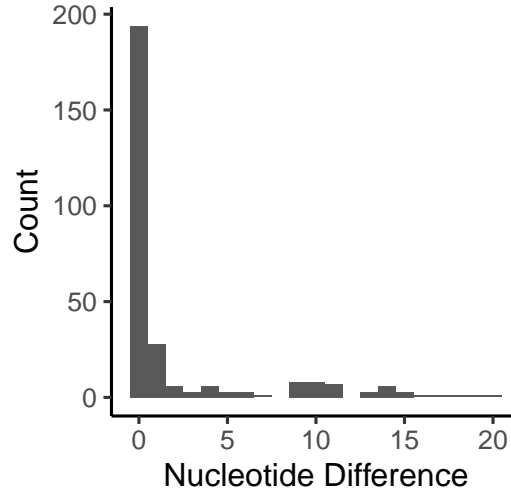
IGHV3-7*01

2073 sequences assigned
1100 (53.1%) exact matches, in which:
1085 unique CDR3
7 unique J



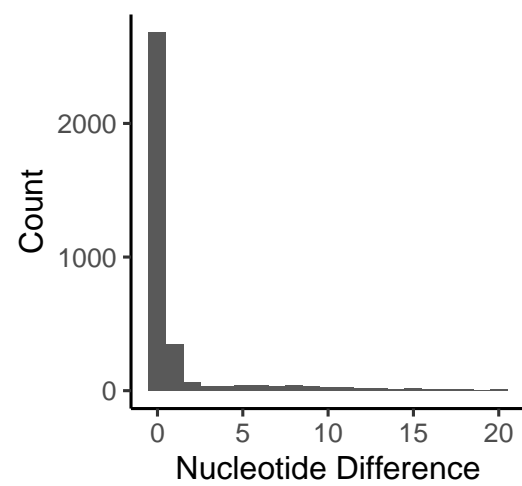
IGHV3-13*01

297 sequences assigned
194 (65.3%) exact matches, in which:
188 unique CDR3
6 unique J



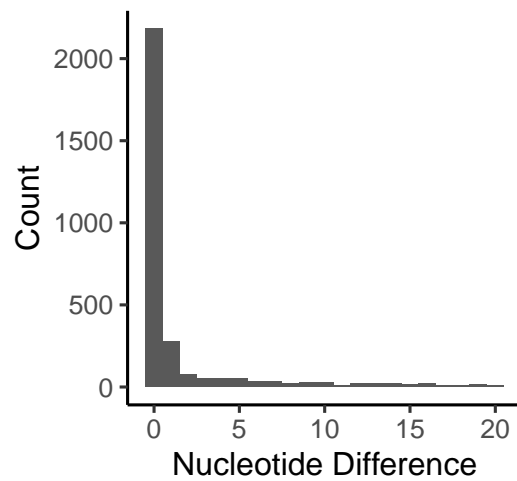
IGHV3-21*01

3593 sequences assigned
2681 (74.6%) exact matches, in which:
2613 unique CDR3
7 unique J



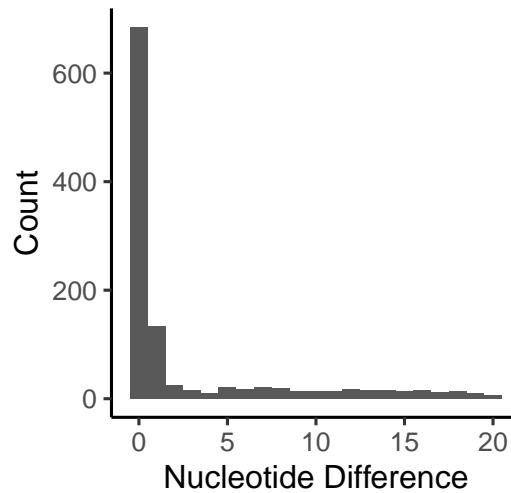
IGHV3-9*01

3076 sequences assigned
2182 (70.9%) exact matches, in which:
2137 unique CDR3
7 unique J



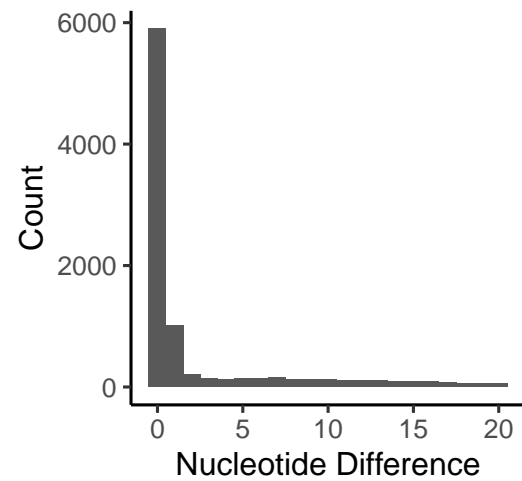
IGHV3-15*01

1170 sequences assigned
685 (58.5%) exact matches, in which:
676 unique CDR3
7 unique J



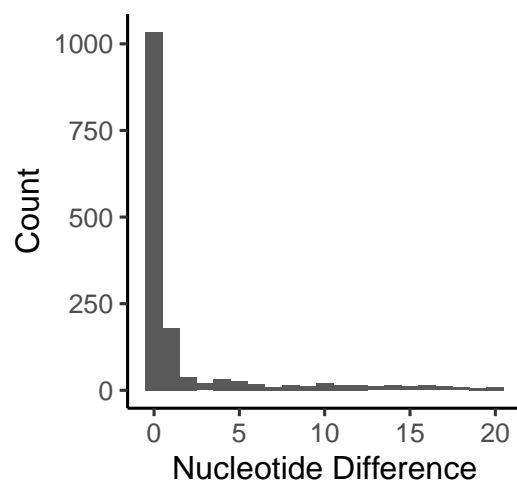
IGHV3-23*01

9399 sequences assigned
5900 (62.8%) exact matches, in which:
5784 unique CDR3
7 unique J



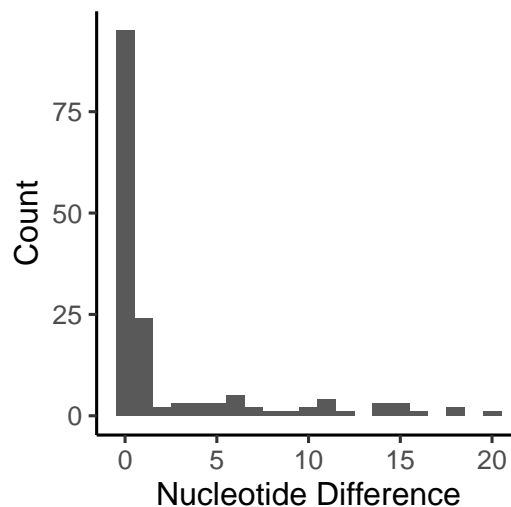
IGHV3-11*01

1577 sequences assigned
1034 (65.6%) exact matches, in which:
1015 unique CDR3
7 unique J



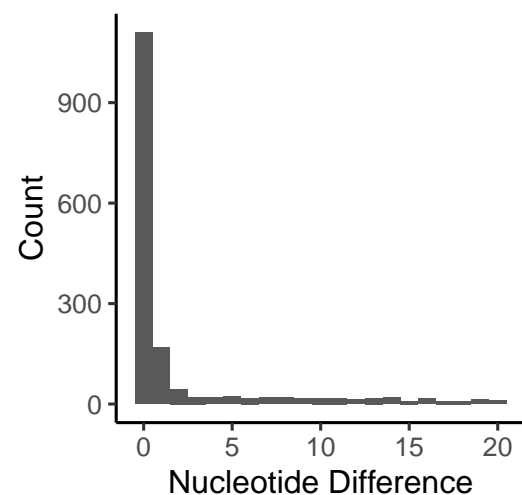
IGHV3-20*01

164 sequences assigned
95 (57.9%) exact matches, in which:
94 unique CDR3
6 unique J



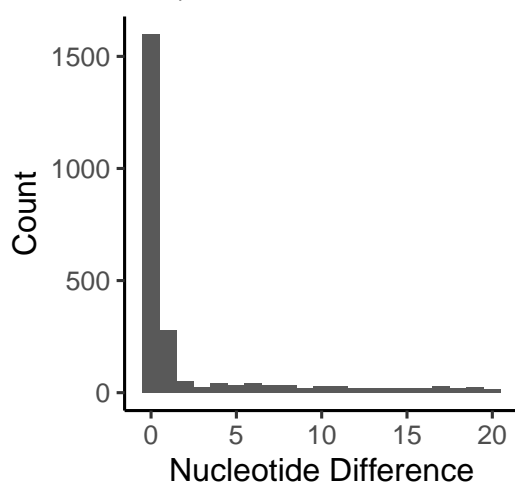
IGHV3-30-3*01

1681 sequences assigned
1110 (66%) exact matches, in which:
1088 unique CDR3
7 unique J



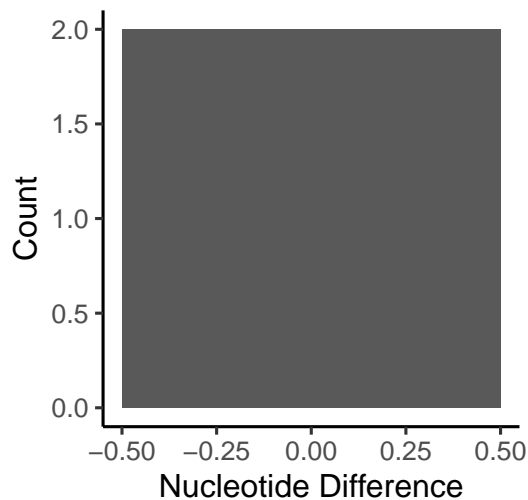
IGHV3-30*02

2498 sequences assigned
1598 (64%) exact matches, in which:
1571 unique CDR3
7 unique J



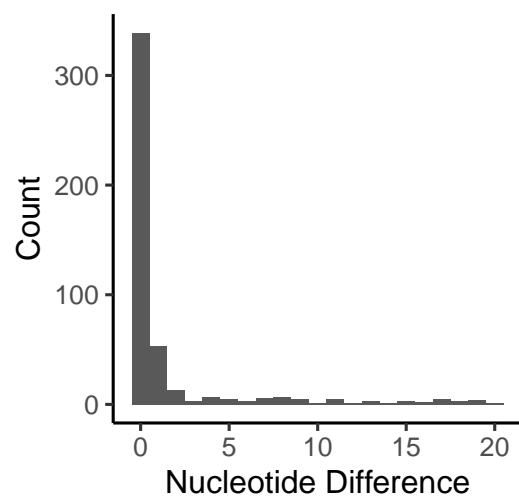
IGHV3-35*02

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



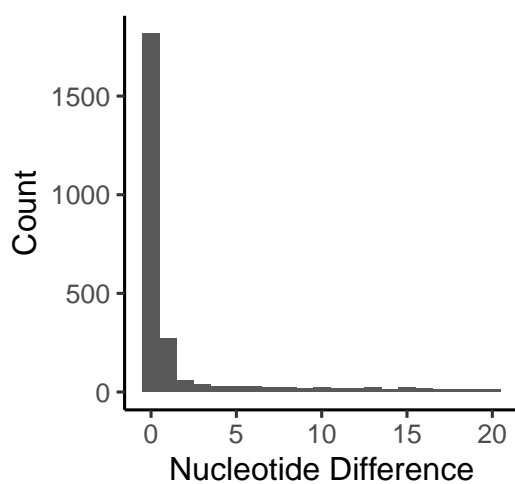
IGHV3-49*05

493 sequences assigned
339 (68.8%) exact matches, in which:
332 unique CDR3
7 unique J



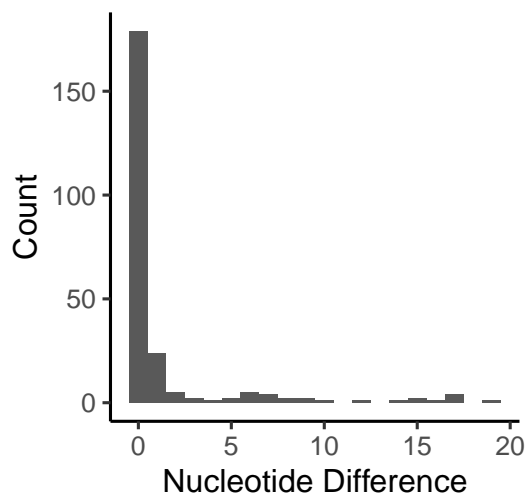
IGHV3-30*18

2626 sequences assigned
1816 (69.2%) exact matches, in which:
1788 unique CDR3
7 unique J



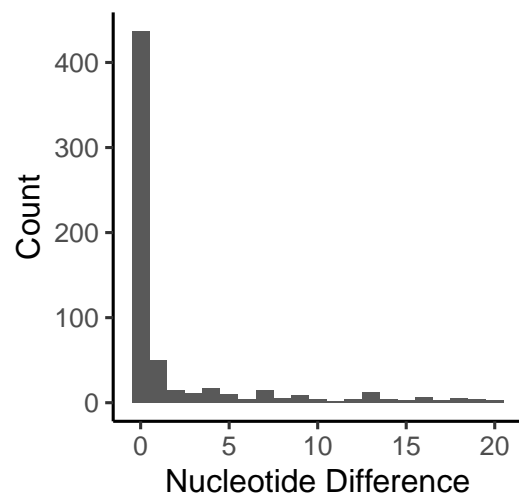
IGHV3-43*01

249 sequences assigned
179 (71.9%) exact matches, in which:
177 unique CDR3
6 unique J



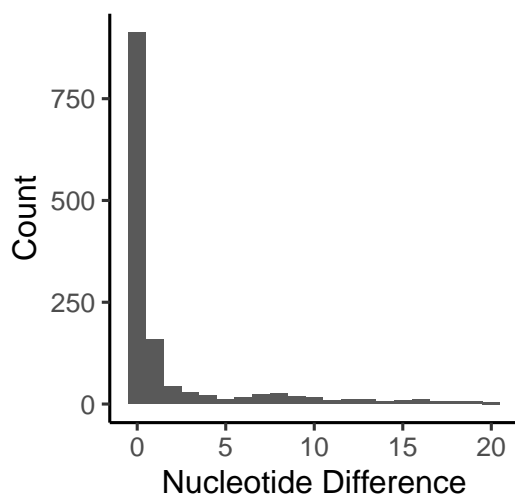
IGHV3-53*01

659 sequences assigned
437 (66.3%) exact matches, in which:
430 unique CDR3
7 unique J



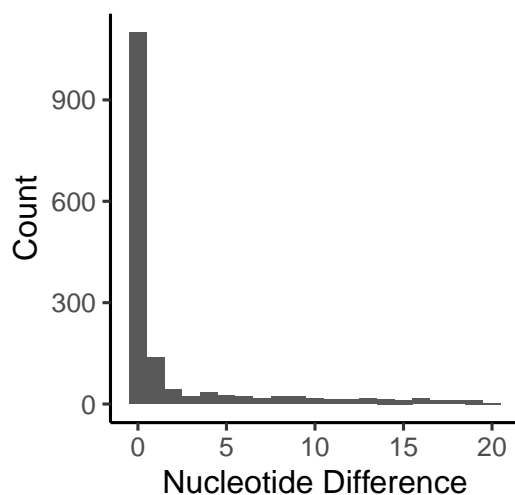
IGHV3-33*01

1400 sequences assigned
913 (65.2%) exact matches, in which:
890 unique CDR3
7 unique J



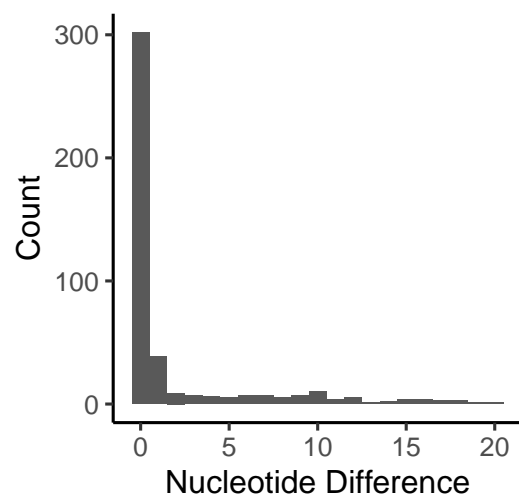
IGHV3-48*02

1633 sequences assigned
1100 (67.4%) exact matches, in which:
1083 unique CDR3
7 unique J



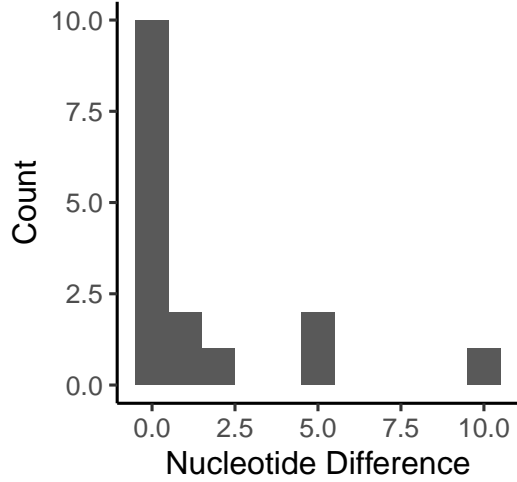
IGHV3-53*02

448 sequences assigned
302 (67.4%) exact matches, in which:
298 unique CDR3
6 unique J



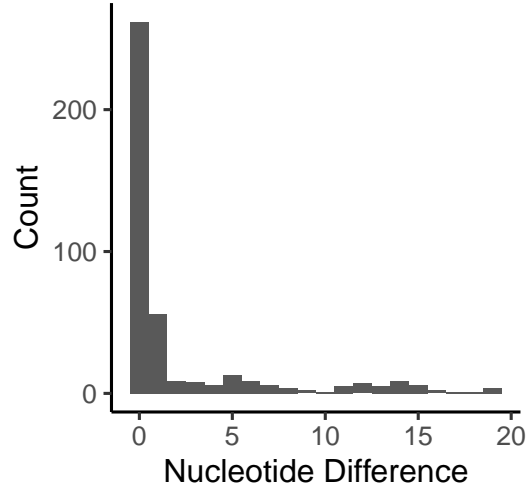
IGHV3–64*02

17 sequences assigned
10 (58.8%) exact matches, in which:
9 unique CDR3
3 unique J



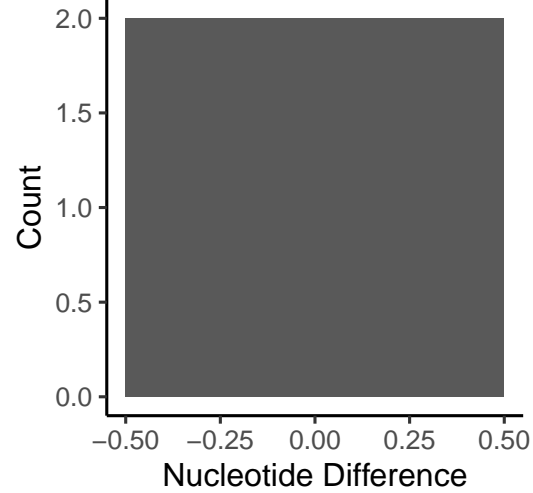
IGHV3–73*02

430 sequences assigned
262 (60.9%) exact matches, in which:
255 unique CDR3
7 unique J



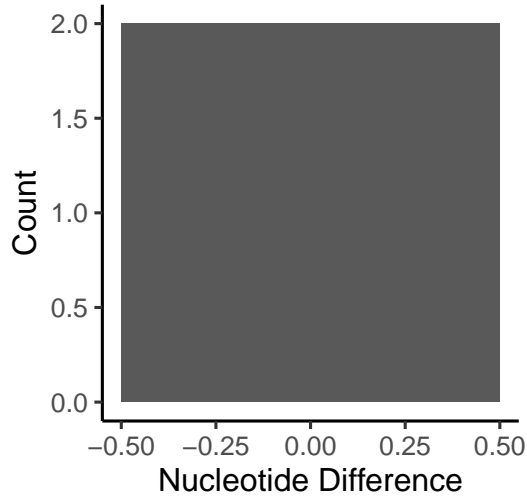
IGHV4–28*01

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



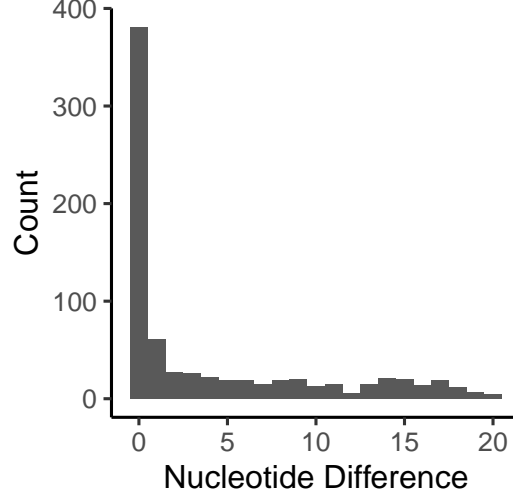
IGHV3–66*03

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



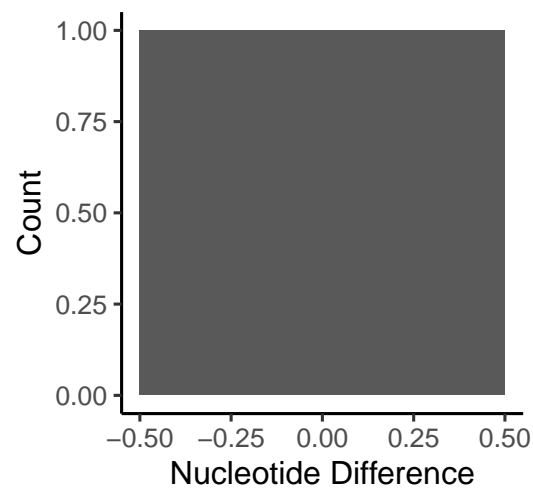
IGHV3–74*01

797 sequences assigned
381 (47.8%) exact matches, in which:
375 unique CDR3
7 unique J



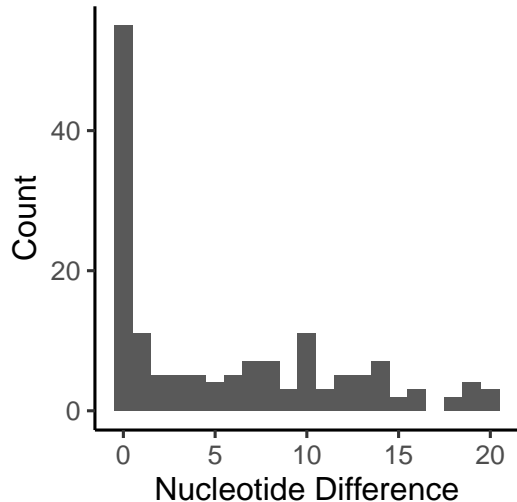
IGHV4–28*03

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



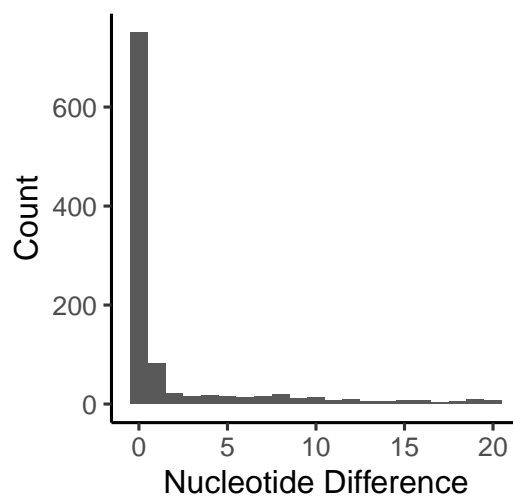
IGHV3–72*01

158 sequences assigned
55 (34.8%) exact matches, in which:
54 unique CDR3
6 unique J



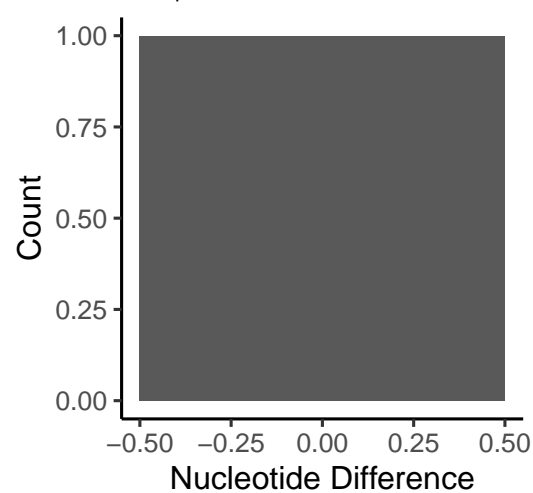
IGHV4–4*07

1085 sequences assigned
751 (69.2%) exact matches, in which:
740 unique CDR3
7 unique J



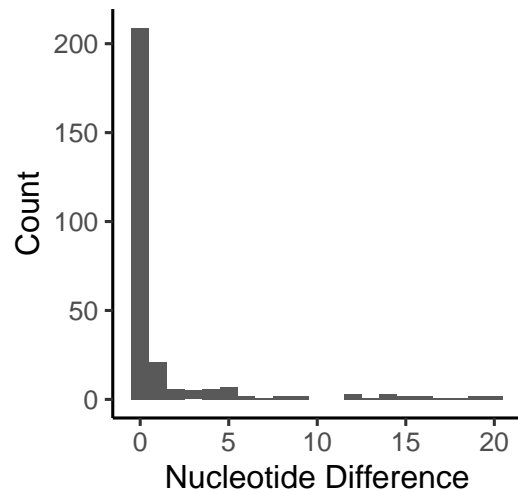
IGHV4–28*07

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



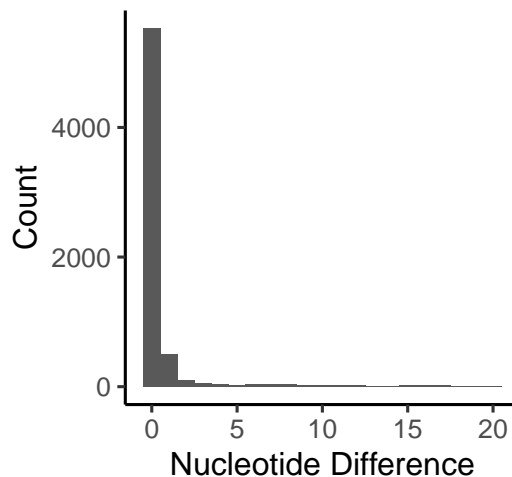
IGHV4-30-4*01

299 sequences assigned
209 (69.9%) exact matches, in which:
208 unique CDR3
6 unique J



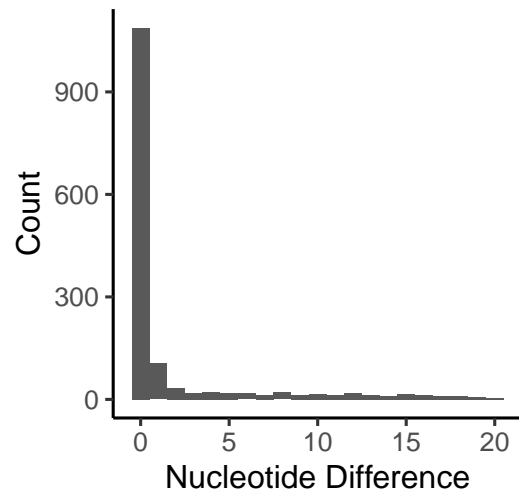
IGHV4-34*01

6699 sequences assigned
5528 (82.5%) exact matches, in which:
5426 unique CDR3
7 unique J



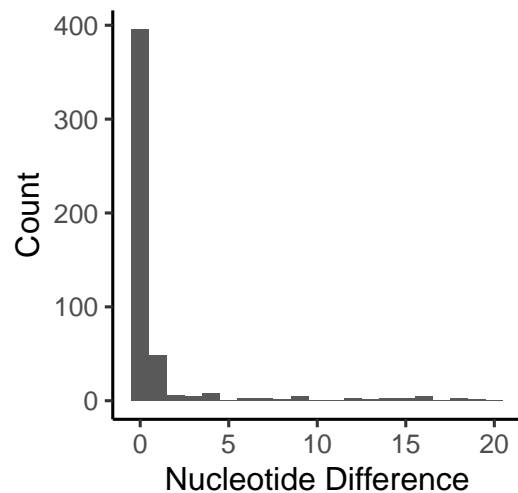
IGHV4-59*01

1544 sequences assigned
1088 (70.5%) exact matches, in which:
1074 unique CDR3
7 unique J



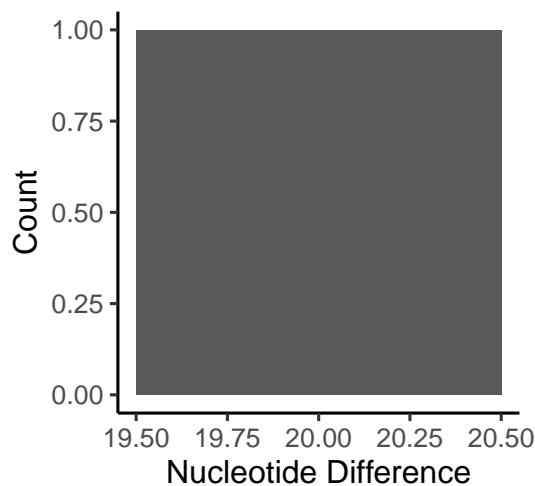
IGHV4-30-2*01

516 sequences assigned
396 (76.7%) exact matches, in which:
389 unique CDR3
7 unique J



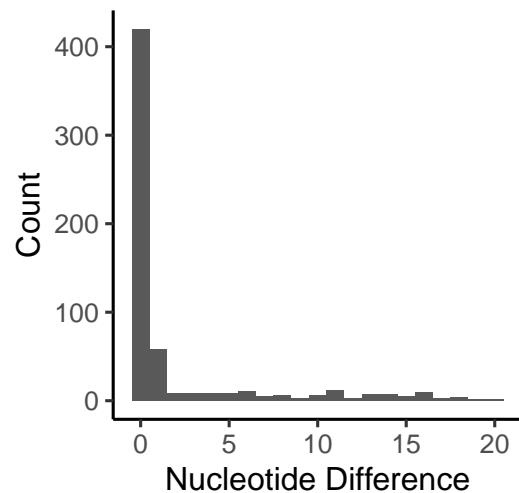
IGHV4-38-2*01

1 sequences assigned
No exact matches.



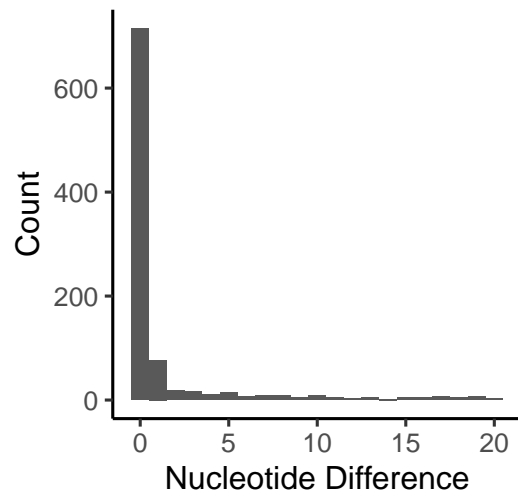
IGHV4-61*01

649 sequences assigned
420 (64.7%) exact matches, in which:
417 unique CDR3
7 unique J



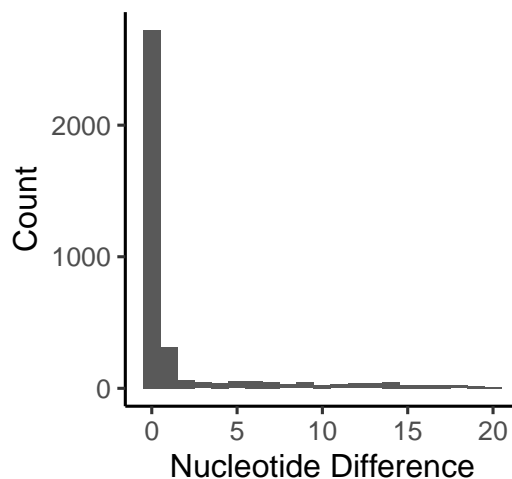
IGHV4-31*03

955 sequences assigned
715 (74.9%) exact matches, in which:
709 unique CDR3
7 unique J



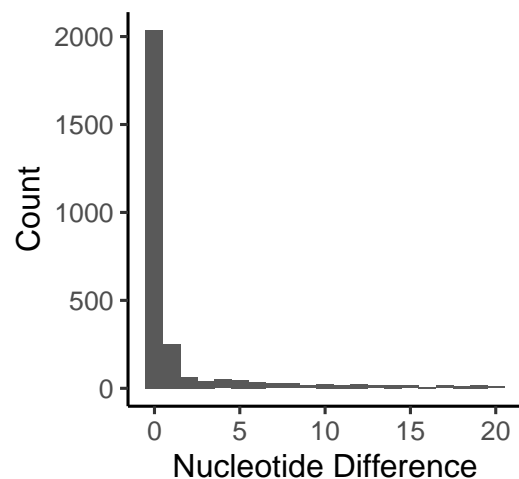
IGHV4-39*01

3913 sequences assigned
2723 (69.6%) exact matches, in which:
2656 unique CDR3
7 unique J



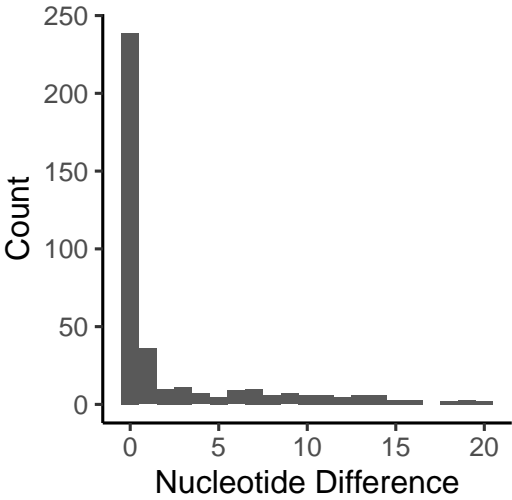
IGHV5-51*01

2854 sequences assigned
2037 (71.4%) exact matches, in which:
1997 unique CDR3
7 unique J

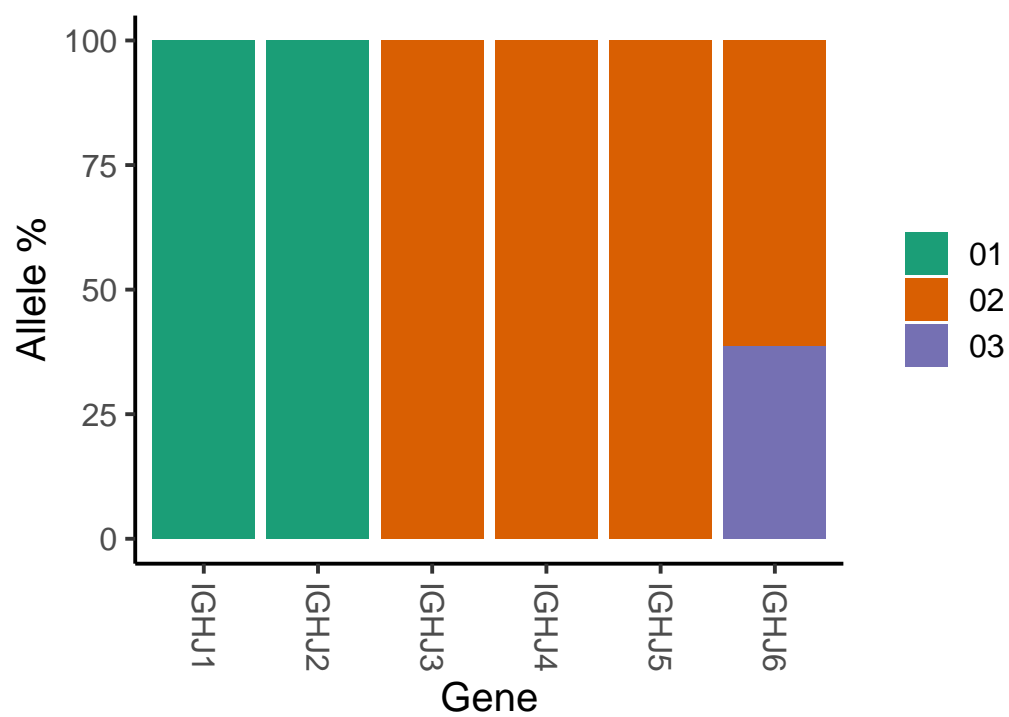


IGHV6-1*01

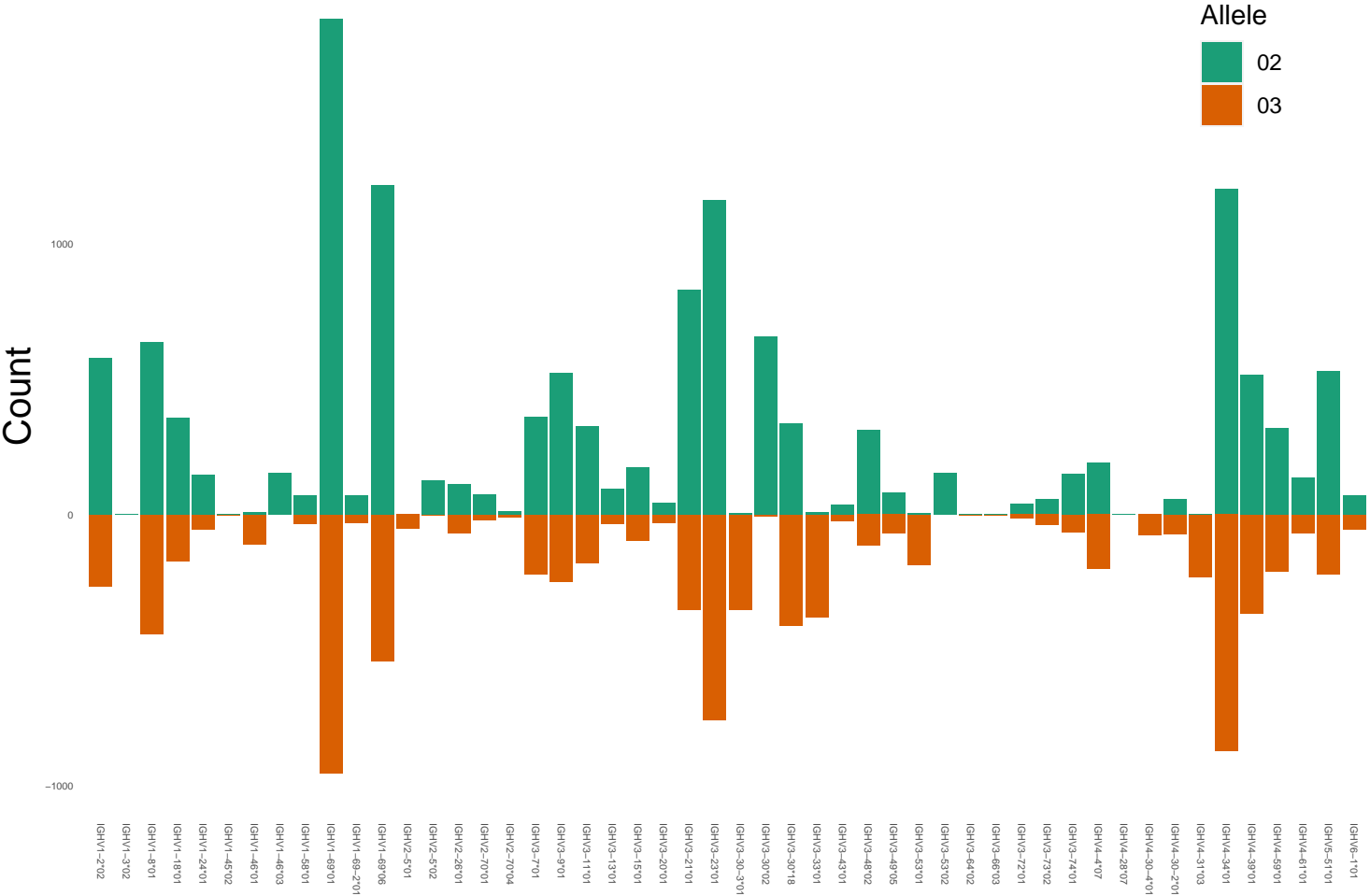
389 sequences assigned
239 (61.4%) exact matches, in which:
235 unique CDR3
7 unique J



Allele Usage



Sequence Count by IGHJ6 allele usage



Warning – no inferred sequences found.