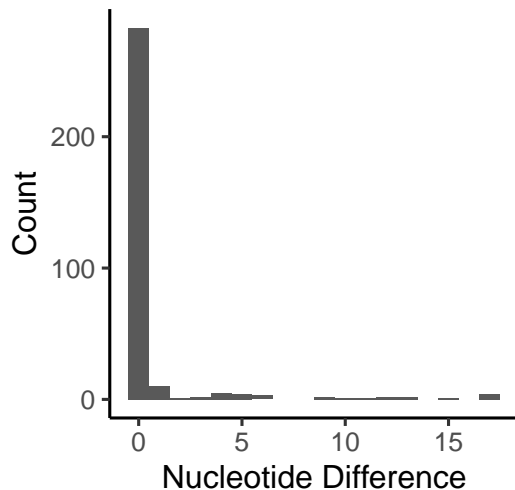


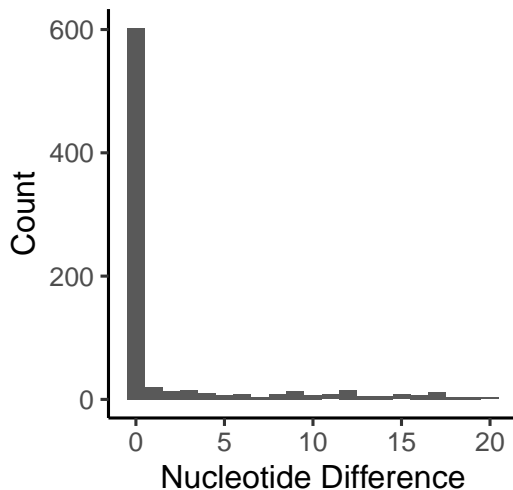
IGHV1-2*04

323 sequences assigned
283 (87.6%) exact matches, in which:
282 unique CDR3
7 unique J



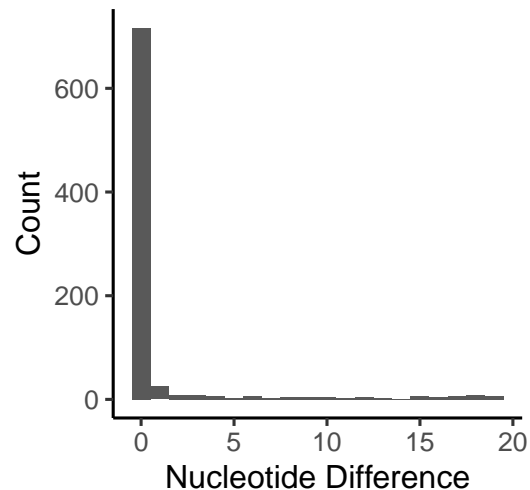
IGHV1-8*01

802 sequences assigned
603 (75.2%) exact matches, in which:
603 unique CDR3
6 unique J



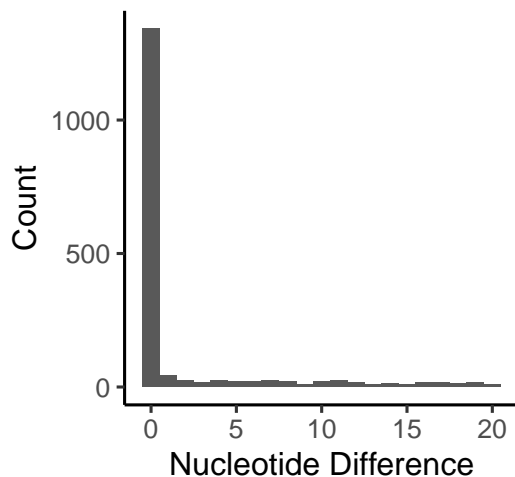
IGHV1-24*01

853 sequences assigned
717 (84.1%) exact matches, in which:
713 unique CDR3
7 unique J



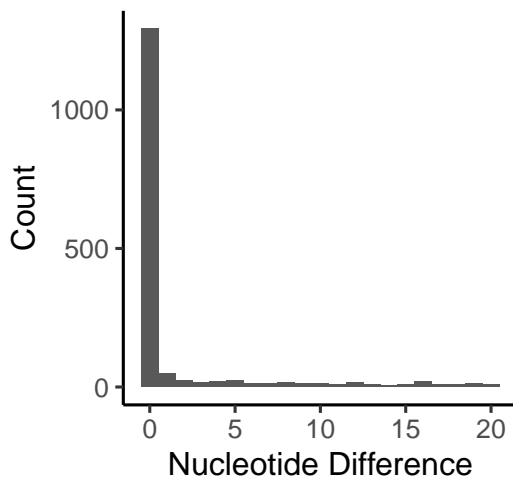
IGHV1-2*06

1819 sequences assigned
1342 (73.8%) exact matches, in which:
1339 unique CDR3
7 unique J



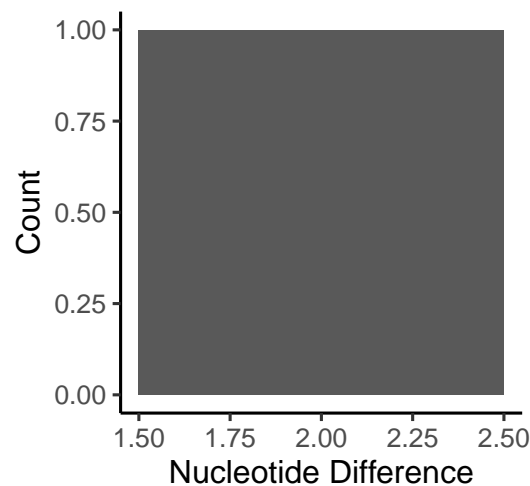
IGHV1-18*01

1681 sequences assigned
1293 (76.9%) exact matches, in which:
1287 unique CDR3
7 unique J



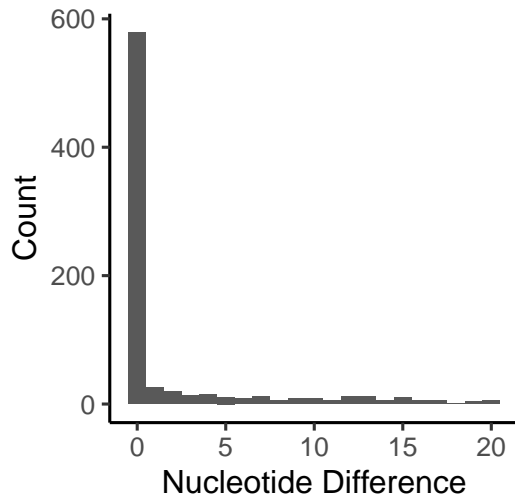
IGHV1-38-4*01

1 sequences assigned
No exact matches.



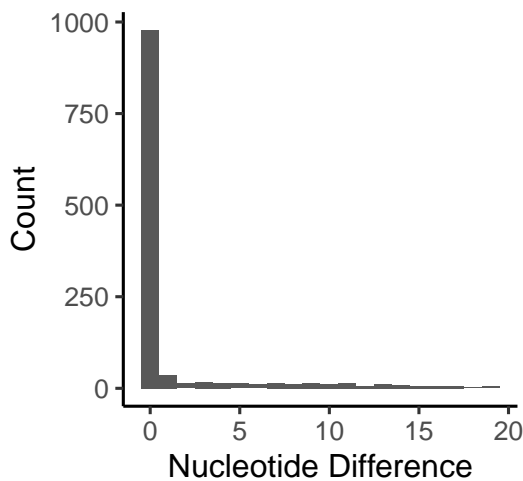
IGHV1-3*01_05

829 sequences assigned
579 (69.8%) exact matches, in which:
578 unique CDR3
7 unique J



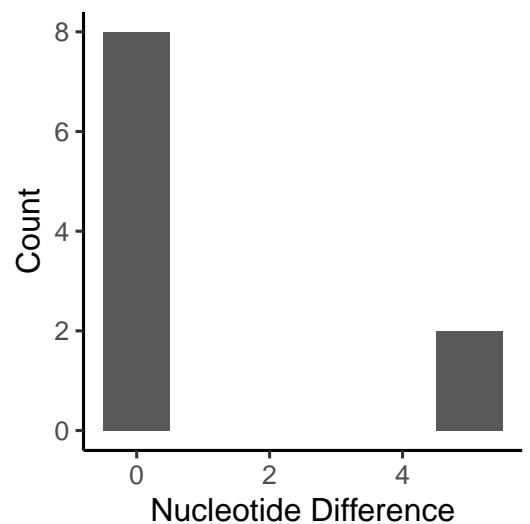
IGHV1-18*04

1263 sequences assigned
978 (77.4%) exact matches, in which:
975 unique CDR3
6 unique J



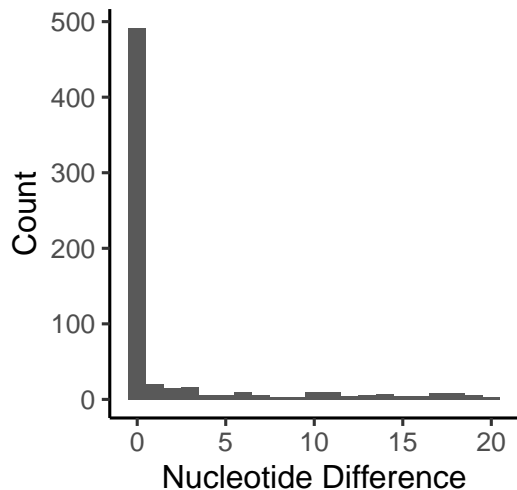
IGHV1-45*02

11 sequences assigned
8 (72.7%) exact matches, in which:
8 unique CDR3
2 unique J



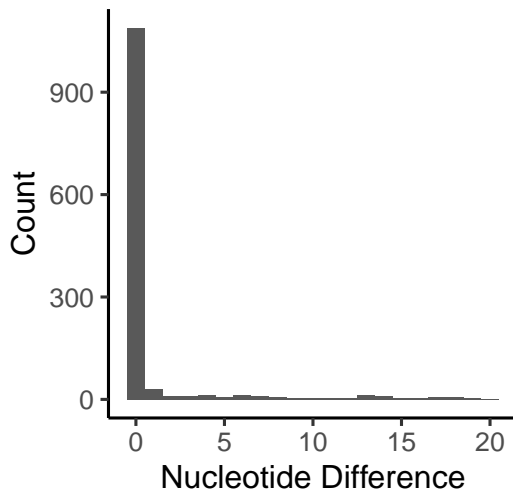
IGHV1–46*03

692 sequences assigned
492 (71.1%) exact matches, in which:
491 unique CDR3
7 unique J



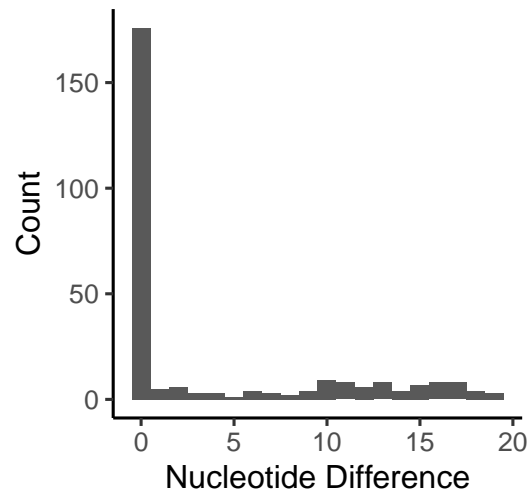
IGHV1–69*01_12_13

1304 sequences assigned
1089 (83.5%) exact matches, in which:
1088 unique CDR3
6 unique J



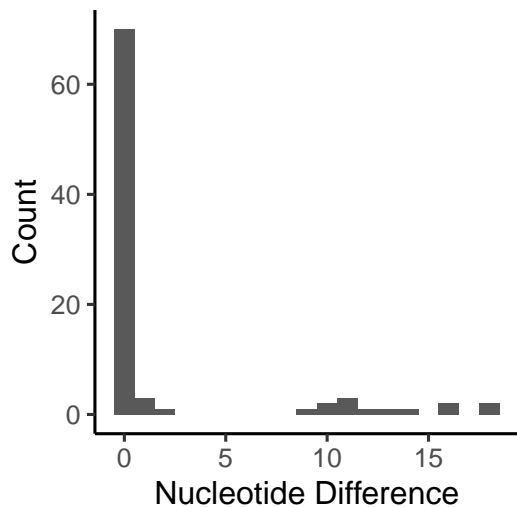
IGHV2–26*01

287 sequences assigned
176 (61.3%) exact matches, in which:
176 unique CDR3
7 unique J



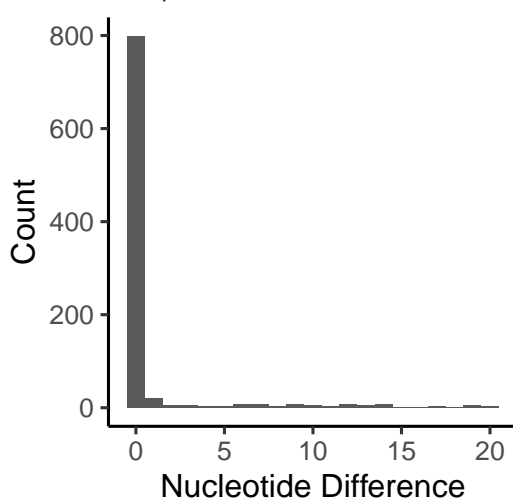
IGHV1–58*02

90 sequences assigned
70 (77.8%) exact matches, in which:
70 unique CDR3
6 unique J



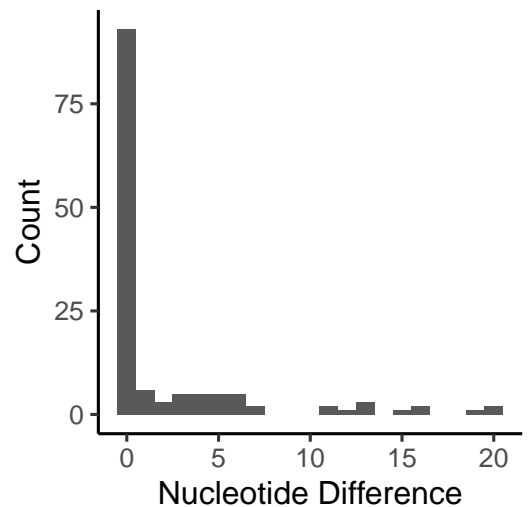
IGHV1–69*04_09

945 sequences assigned
799 (84.6%) exact matches, in which:
799 unique CDR3
7 unique J



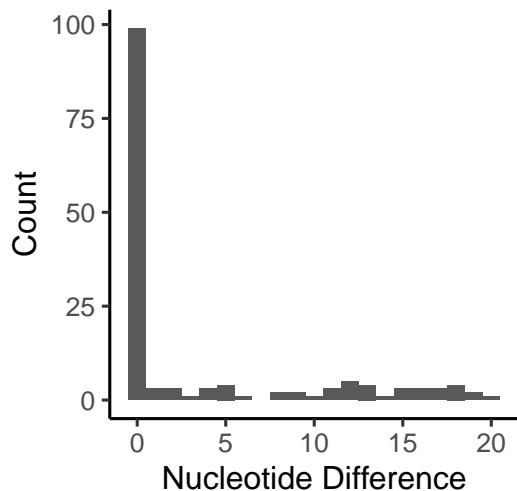
IGHV2–70*01

140 sequences assigned
93 (66.4%) exact matches, in which:
93 unique CDR3
5 unique J



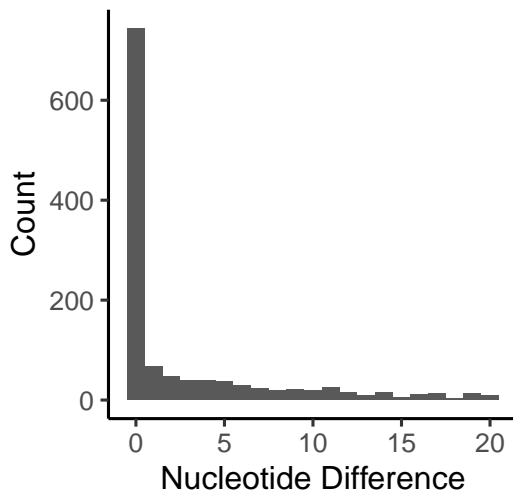
IGHV1–58*01_03

184 sequences assigned
99 (53.8%) exact matches, in which:
99 unique CDR3
6 unique J



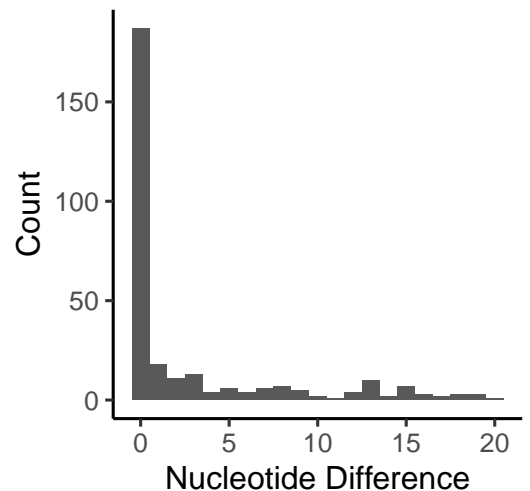
IGHV2–5*02

1262 sequences assigned
744 (59%) exact matches, in which:
741 unique CDR3
7 unique J



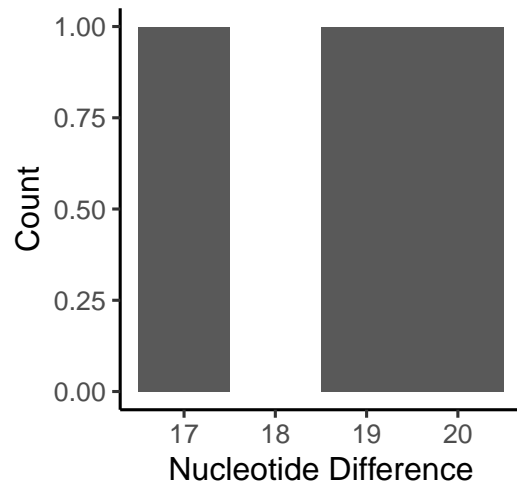
IGHV2–70*11_15

312 sequences assigned
187 (59.9%) exact matches, in which:
186 unique CDR3
6 unique J



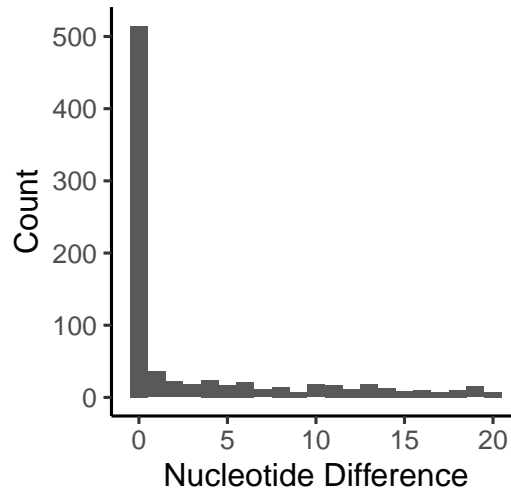
IGHV2-70D*04

3 sequences assigned
No exact matches.



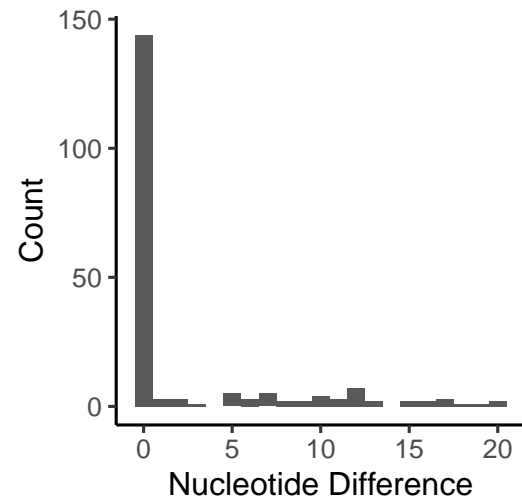
IGHV3-9*01

869 sequences assigned
515 (59.3%) exact matches, in which:
506 unique CDR3
7 unique J



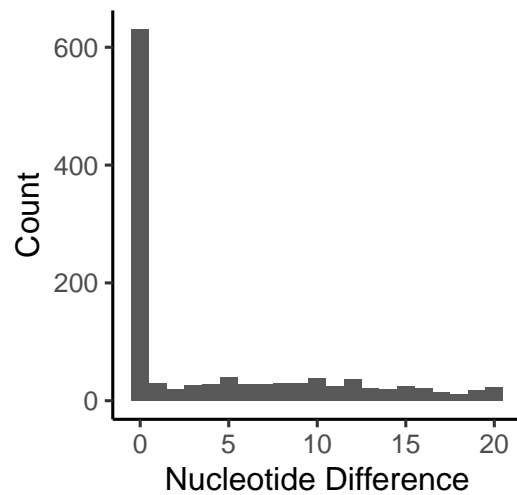
IGHV3-13*01

202 sequences assigned
144 (71.3%) exact matches, in which:
141 unique CDR3
7 unique J



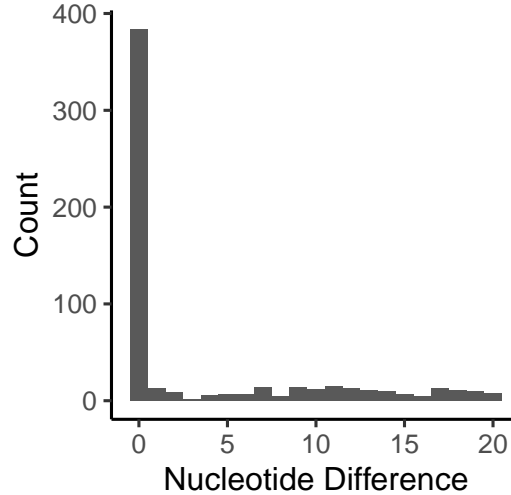
IGHV3-7*01

1256 sequences assigned
631 (50.2%) exact matches, in which:
601 unique CDR3
7 unique J



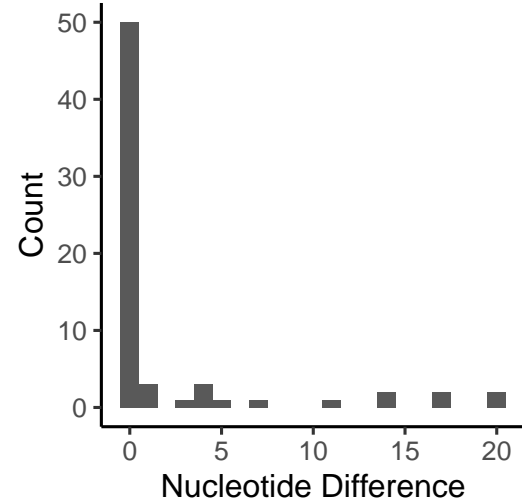
IGHV3-11*01

626 sequences assigned
384 (61.3%) exact matches, in which:
375 unique CDR3
6 unique J



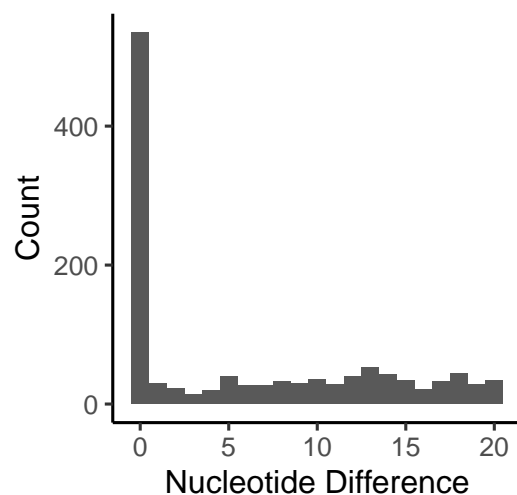
IGHV3-13*05

75 sequences assigned
50 (66.7%) exact matches, in which:
49 unique CDR3
4 unique J



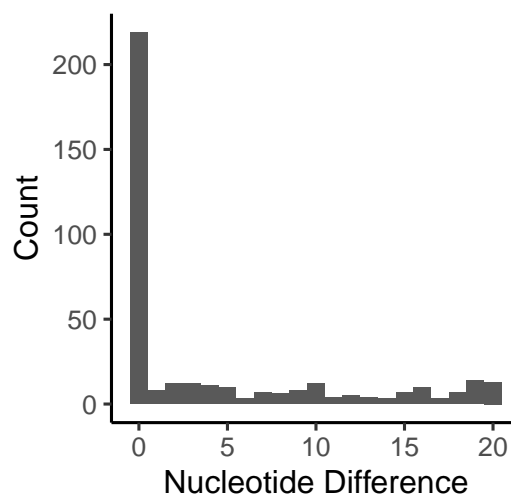
IGHV3-7*03

1348 sequences assigned
535 (39.7%) exact matches, in which:
515 unique CDR3
7 unique J



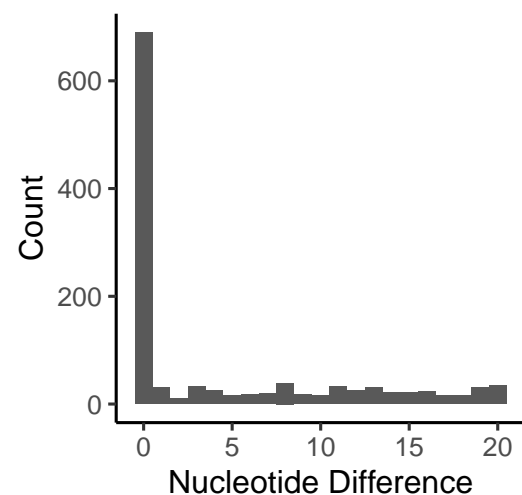
IGHV3-11*06

421 sequences assigned
219 (52%) exact matches, in which:
213 unique CDR3
7 unique J



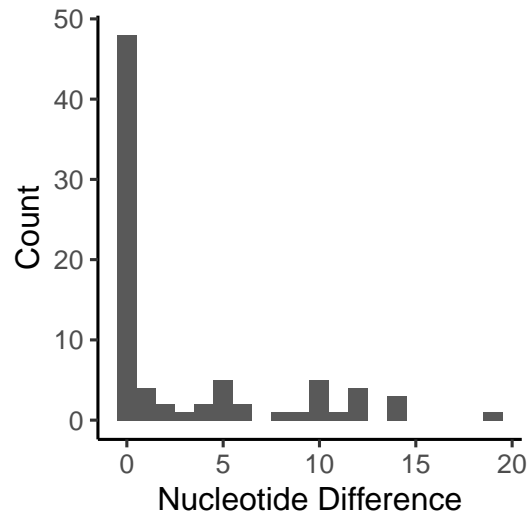
IGHV3-15*01_02

1294 sequences assigned
690 (53.3%) exact matches, in which:
675 unique CDR3
7 unique J



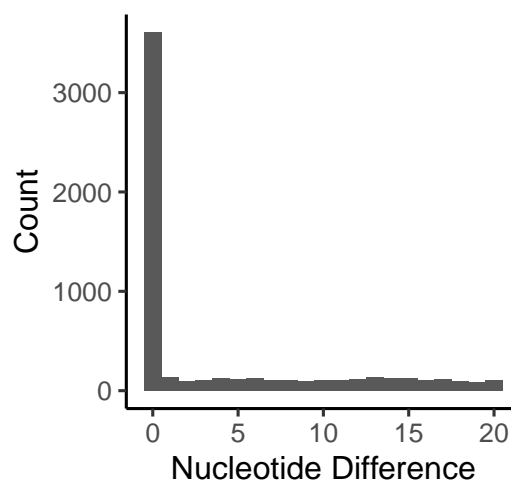
IGHV3-20*01_02

81 sequences assigned
48 (59.3%) exact matches, in which:
48 unique CDR3
5 unique J



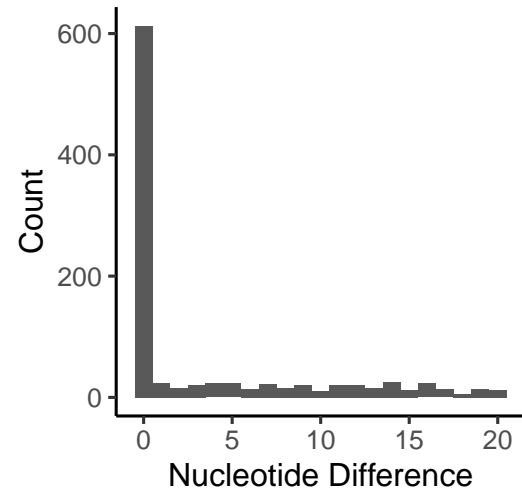
IGHV3-23*01_04

6462 sequences assigned
3606 (55.8%) exact matches, in which:
3455 unique CDR3
7 unique J



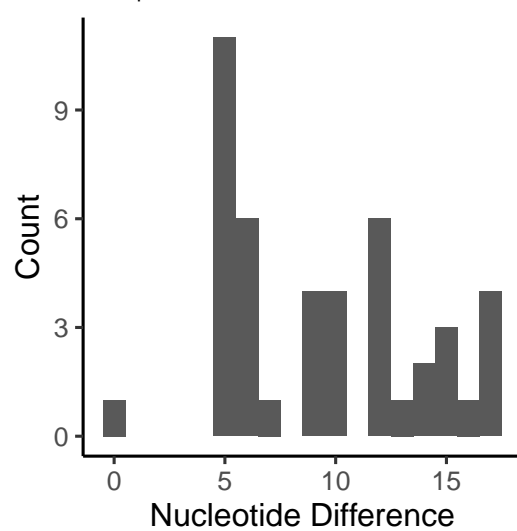
IGHV3-48*01

1038 sequences assigned
613 (59.1%) exact matches, in which:
584 unique CDR3
6 unique J



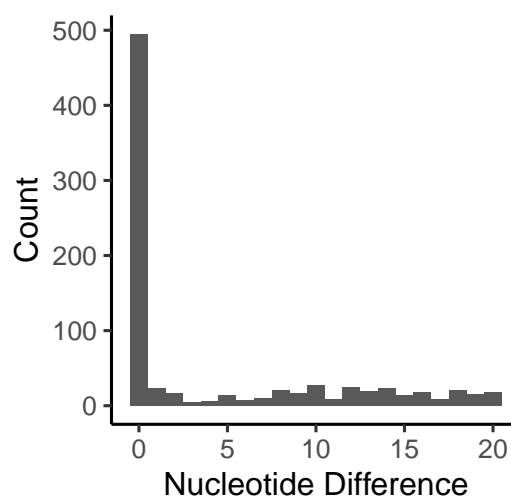
IGHV3-20*03_04

61 sequences assigned
1 (1.6%) exact matches, in which:
1 unique CDR3
1 unique J



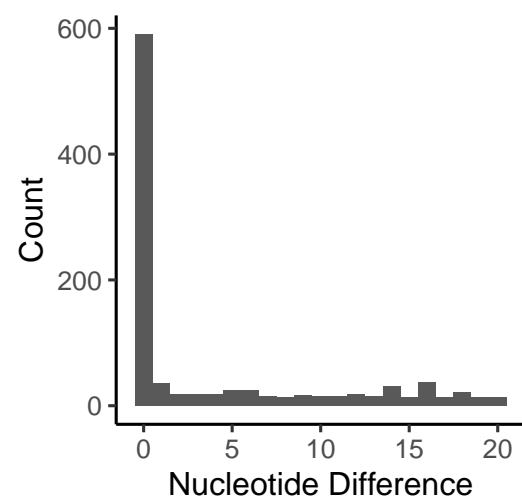
IGHV3-33*01

908 sequences assigned
495 (54.5%) exact matches, in which:
478 unique CDR3
6 unique J



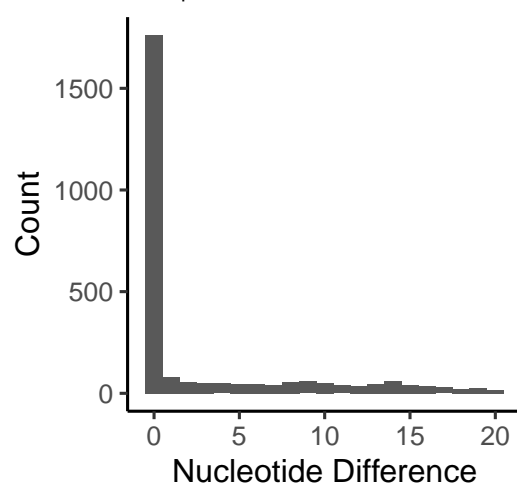
IGHV3-48*02

1084 sequences assigned
591 (54.5%) exact matches, in which:
564 unique CDR3
7 unique J



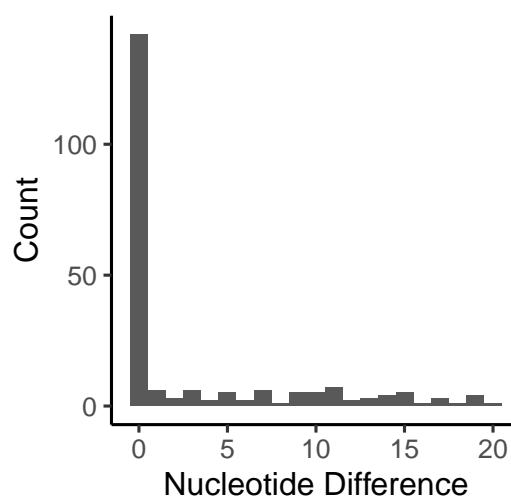
IGHV3-21*01_02

2786 sequences assigned
1762 (63.2%) exact matches, in which:
1677 unique CDR3
7 unique J



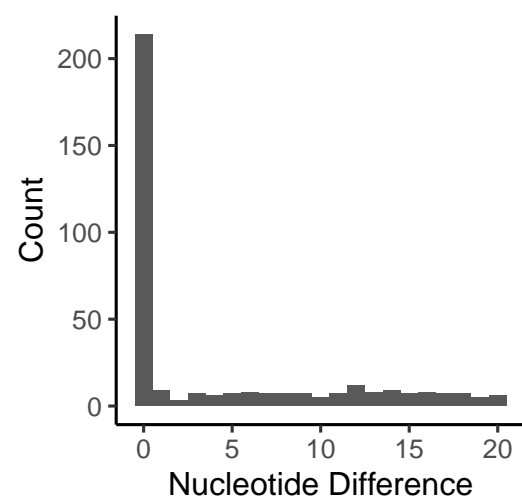
IGHV3-43*01

231 sequences assigned
142 (61.5%) exact matches, in which:
137 unique CDR3
7 unique J



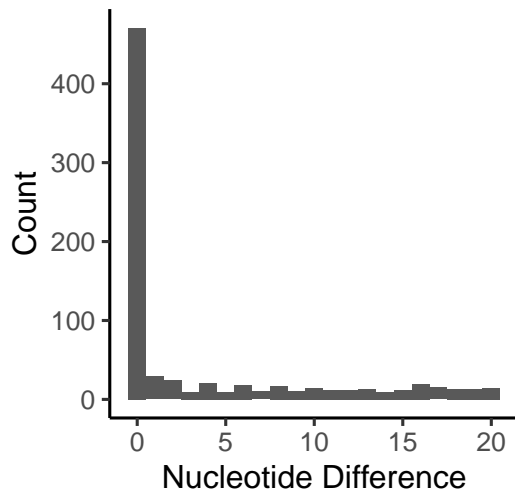
IGHV3-49*03_05

388 sequences assigned
214 (55.2%) exact matches, in which:
207 unique CDR3
7 unique J



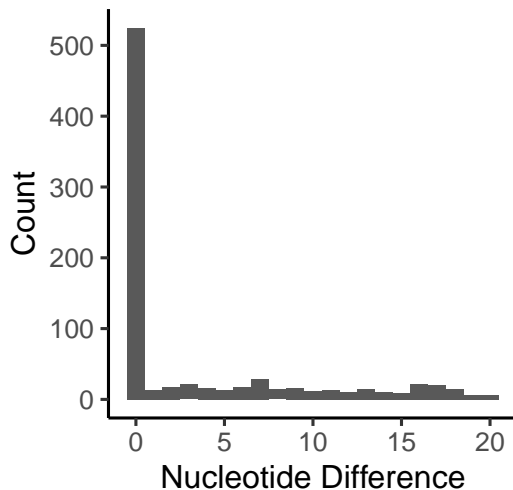
IGHV3-53*01_02

825 sequences assigned
471 (57.1%) exact matches, in which:
444 unique CDR3
7 unique J



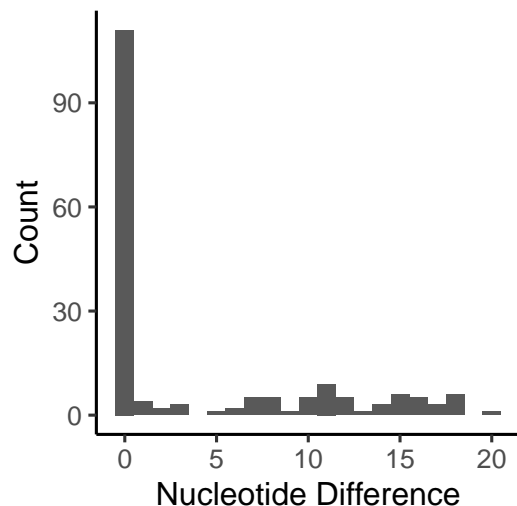
IGHV3-66*01

897 sequences assigned
525 (58.5%) exact matches, in which:
502 unique CDR3
6 unique J



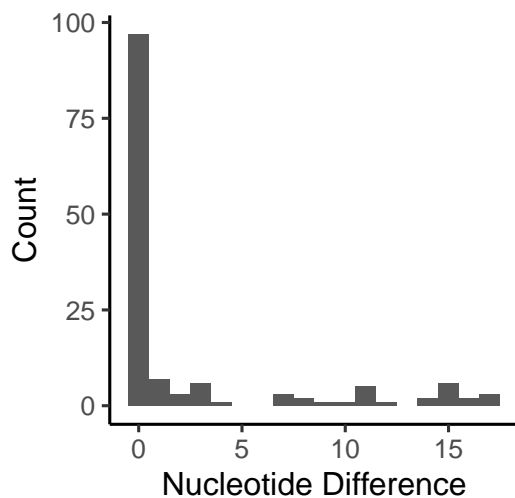
IGHV3-73*01_02

213 sequences assigned
111 (52.1%) exact matches, in which:
109 unique CDR3
6 unique J



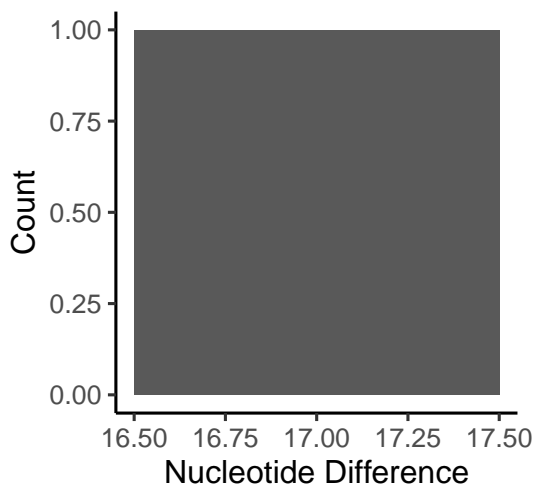
IGHV3-64*01

223 sequences assigned
97 (43.5%) exact matches, in which:
94 unique CDR3
6 unique J



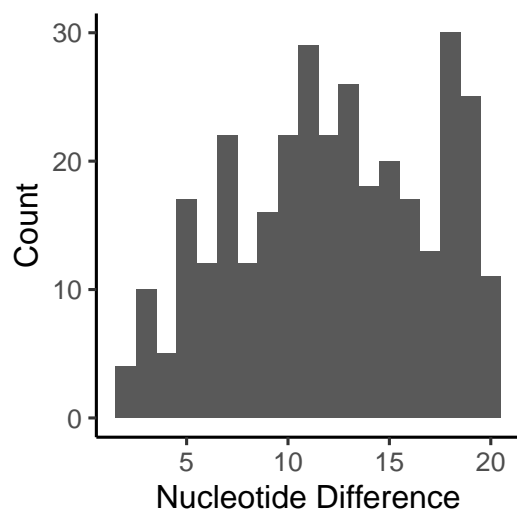
IGHV3-69-1*02

2 sequences assigned
No exact matches.



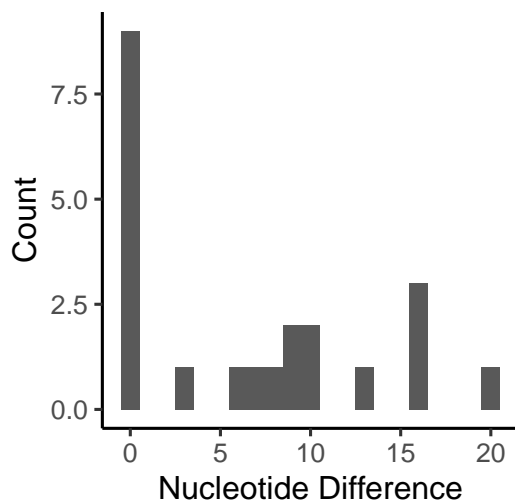
IGHV3-74*03

429 sequences assigned
No exact matches.



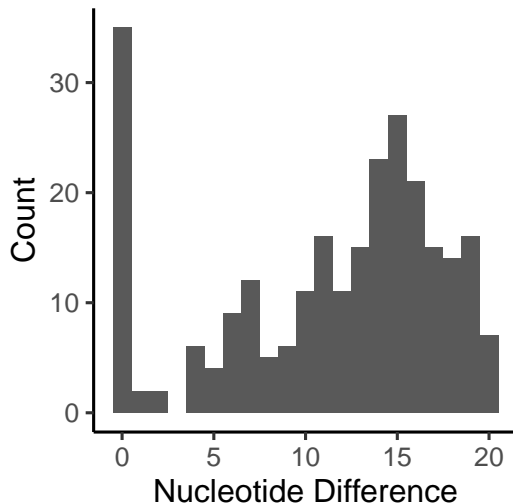
IGHV3-64*02_07

25 sequences assigned
9 (36%) exact matches, in which:
7 unique CDR3
3 unique J



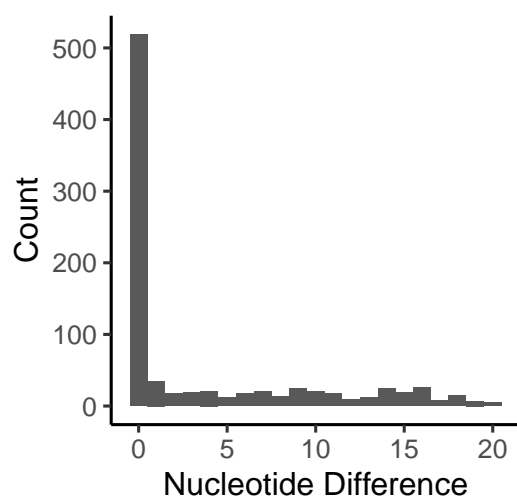
IGHV3-72*01

313 sequences assigned
35 (11.2%) exact matches, in which:
35 unique CDR3
6 unique J



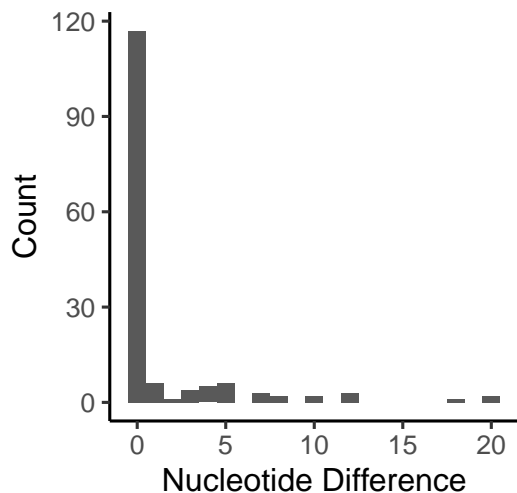
IGHV3-74*01_02

888 sequences assigned
519 (58.4%) exact matches, in which:
495 unique CDR3
7 unique J



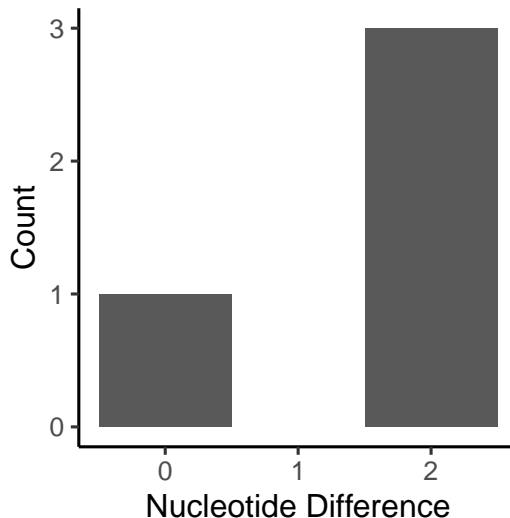
IGHV3-43D*03

161 sequences assigned
117 (72.7%) exact matches, in which:
108 unique CDR3
6 unique J



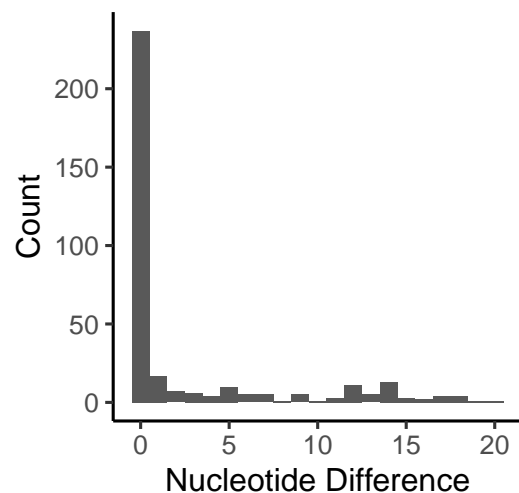
IGHV4-28*01_07

5 sequences assigned
1 (20%) exact matches, in which:
1 unique CDR3
1 unique J



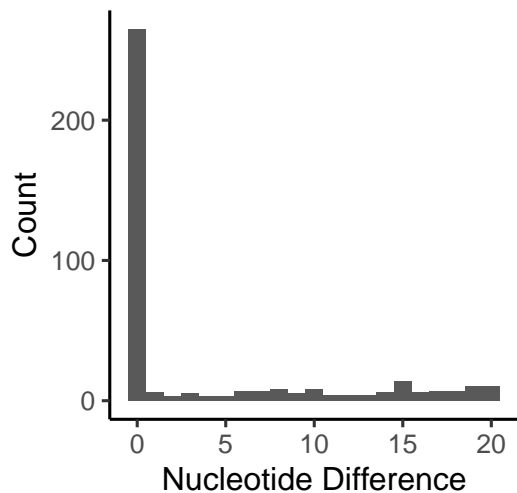
IGHV4-30-4*07

366 sequences assigned
237 (64.8%) exact matches, in which:
233 unique CDR3
5 unique J



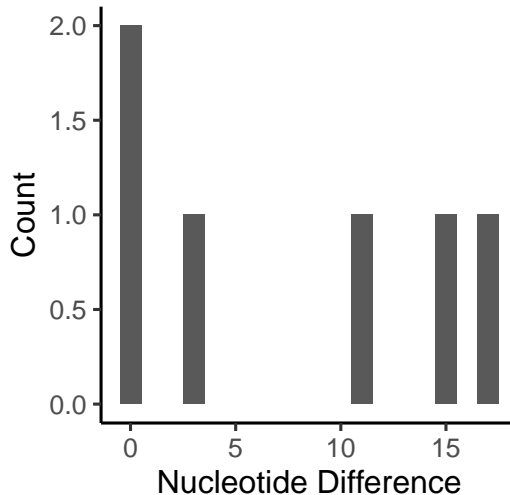
IGHV3-64D*06

439 sequences assigned
265 (60.4%) exact matches, in which:
259 unique CDR3
7 unique J



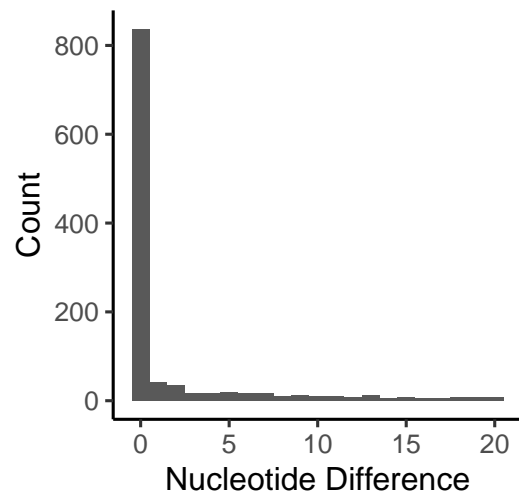
IGHV4-28*02_05

8 sequences assigned
2 (25%) exact matches, in which:
2 unique CDR3
2 unique J



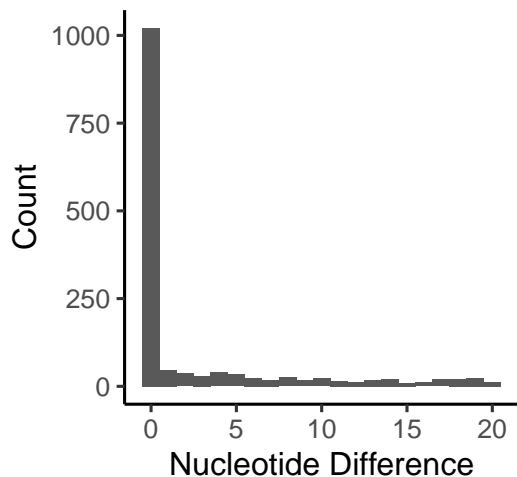
IGHV4-31*02

1187 sequences assigned
837 (70.5%) exact matches, in which:
816 unique CDR3
7 unique J



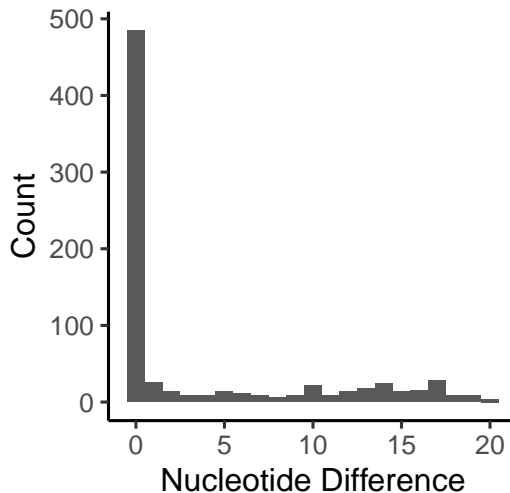
IGHV4-4*02_03

1601 sequences assigned
1021 (63.8%) exact matches, in which:
990 unique CDR3
7 unique J



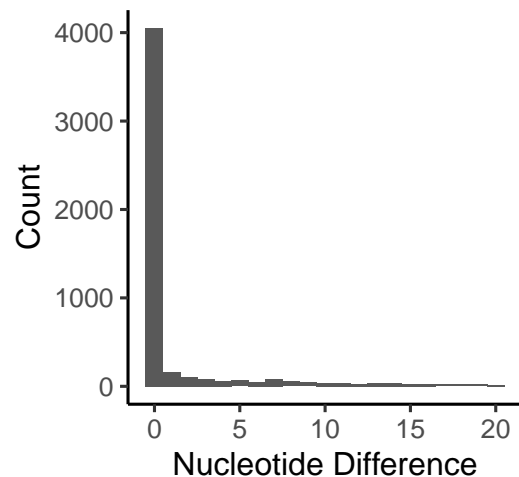
IGHV4-30-2*01

791 sequences assigned
485 (61.3%) exact matches, in which:
463 unique CDR3
6 unique J



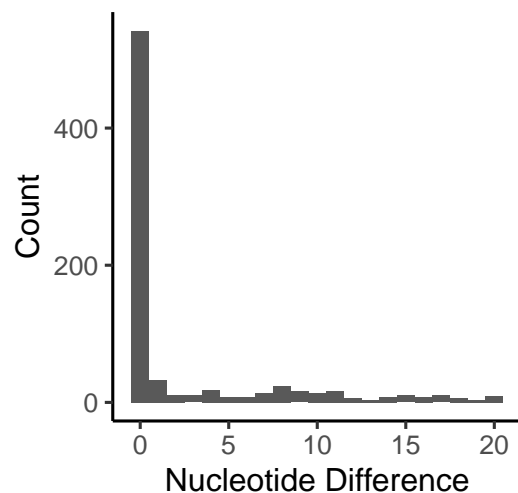
IGHV4-34*01_02

5280 sequences assigned
4052 (76.7%) exact matches, in which:
3887 unique CDR3
7 unique J



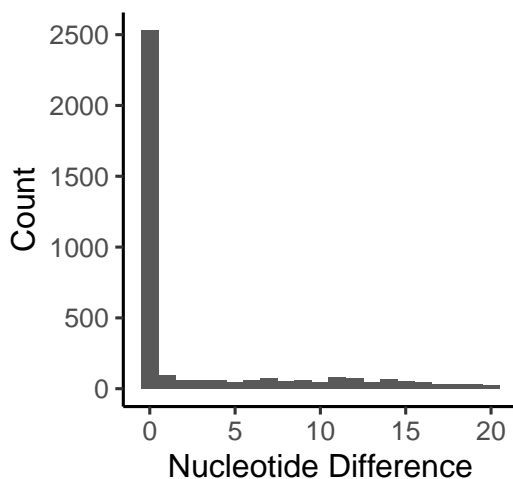
IGHV4-38-2*02

852 sequences assigned
542 (63.6%) exact matches, in which:
528 unique CDR3
6 unique J



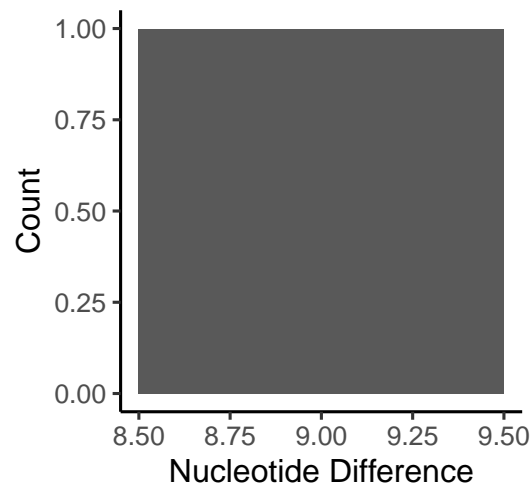
IGHV4-59*02_G88A

3826 sequences assigned
2530 (66.1%) exact matches, in which:
2446 unique CDR3
7 unique J



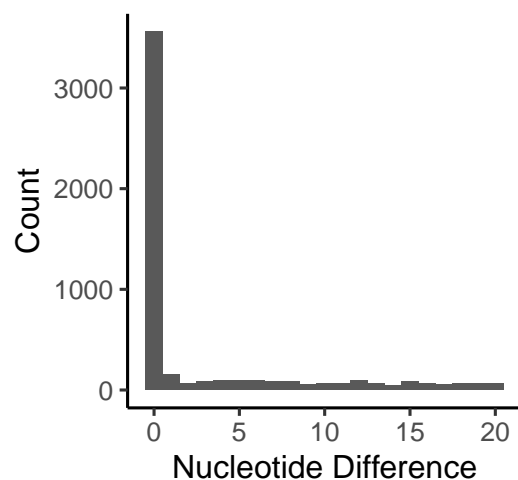
IGHV1/OR15-9*01

1 sequences assigned
No exact matches.



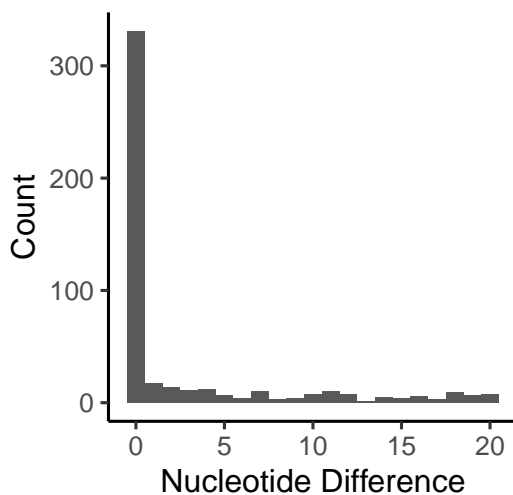
IGHV4-39*02_C258G

5526 sequences assigned
3559 (64.4%) exact matches, in which:
3450 unique CDR3
7 unique J



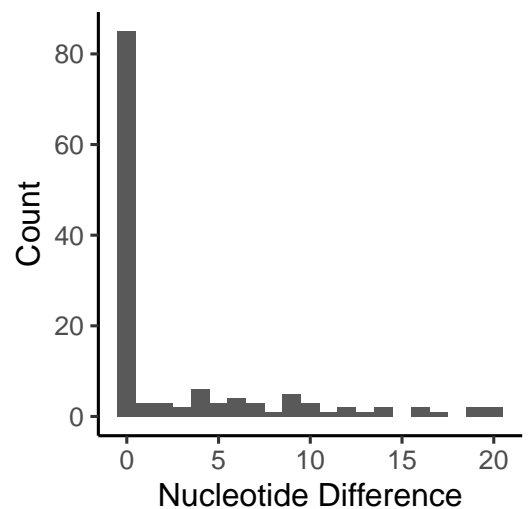
IGHV4-61*01

513 sequences assigned
331 (64.5%) exact matches, in which:
317 unique CDR3
7 unique J



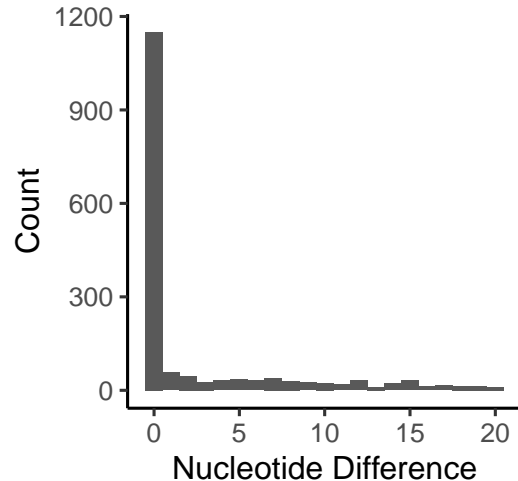
IGHV5-10-1*01_03

138 sequences assigned
85 (61.6%) exact matches, in which:
85 unique CDR3
5 unique J



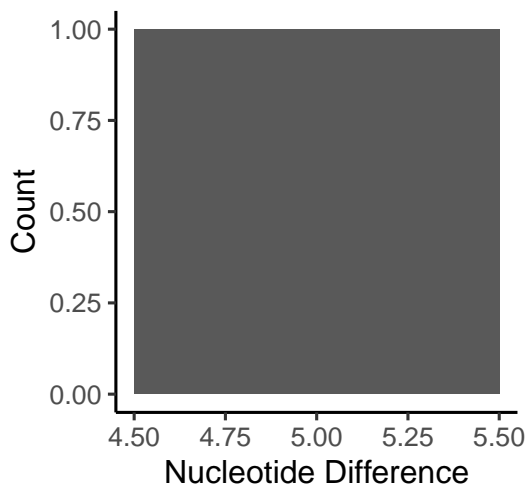
IGHV4-59*08

1763 sequences assigned
1150 (65.2%) exact matches, in which:
1105 unique CDR3
7 unique J



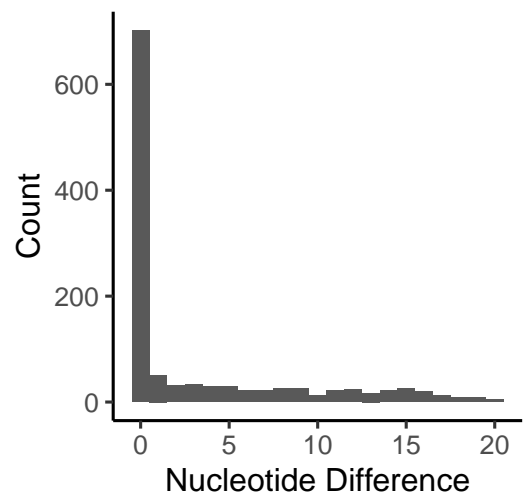
IGHV4/OR15-8*01

14 sequences assigned
No exact matches.



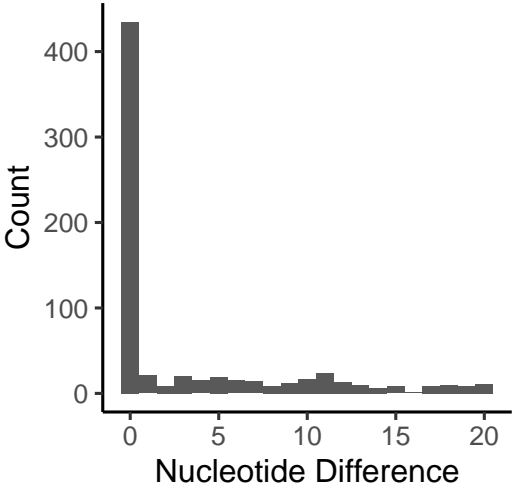
IGHV5-51*07_A128G

1188 sequences assigned
702 (59.1%) exact matches, in which:
700 unique CDR3
7 unique J



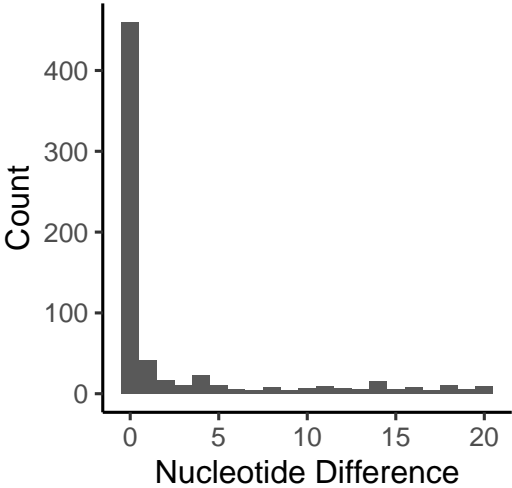
IGHV6-1*01_02

750 sequences assigned
435 (58%) exact matches, in which:
432 unique CDR3
7 unique J

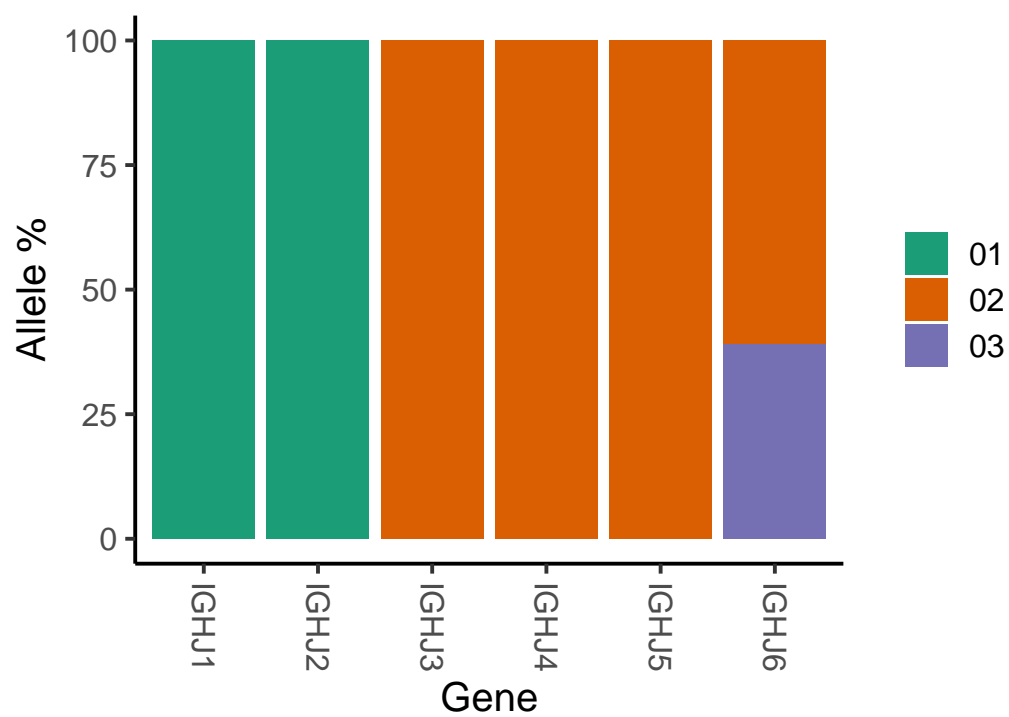


IGHV7-4-1*02

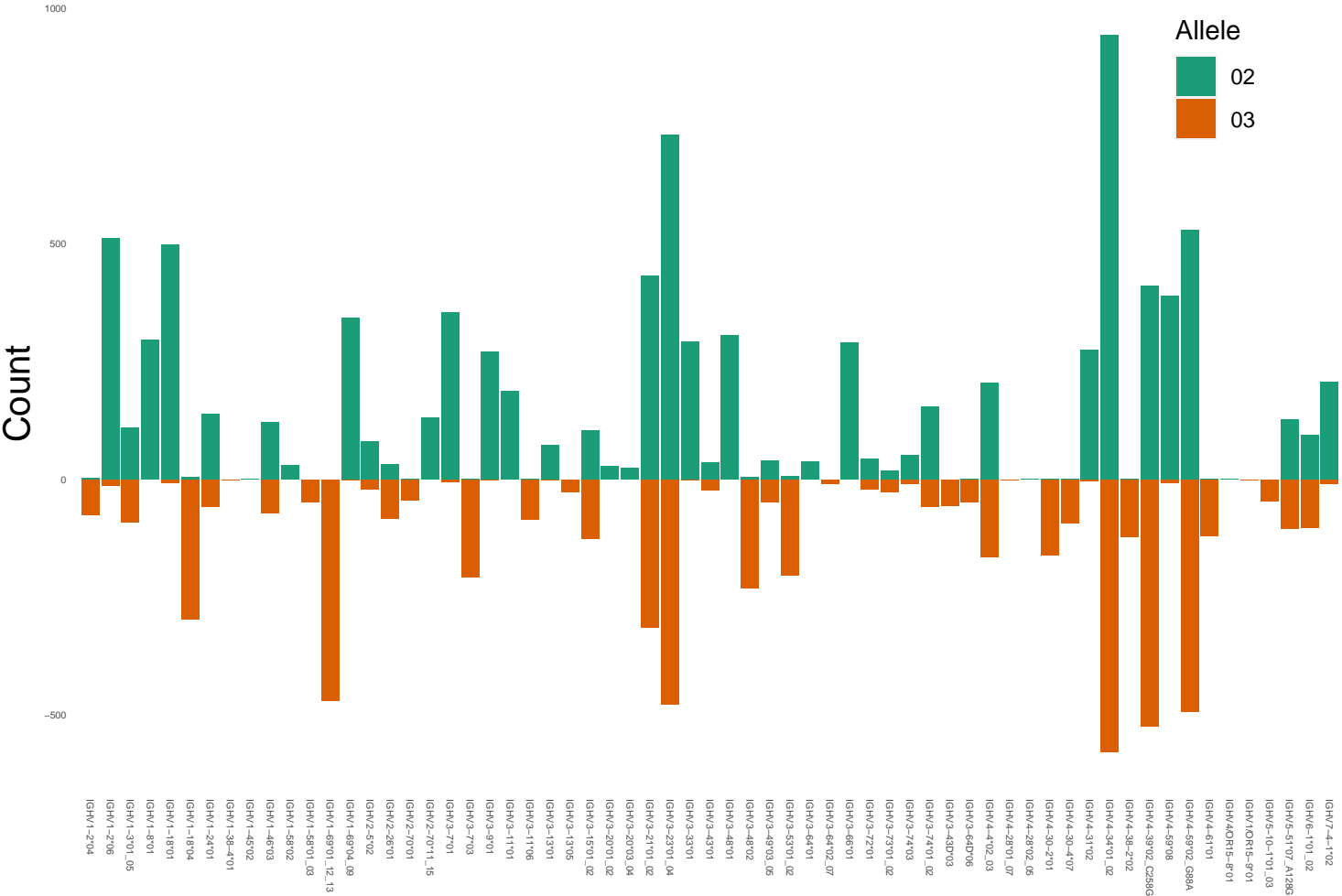
709 sequences assigned
460 (64.9%) exact matches, in which:
458 unique CDR3
7 unique J



Allele Usage



Sequence Count byIGHJ6 allele usage



Warning – no inferred sequences found.