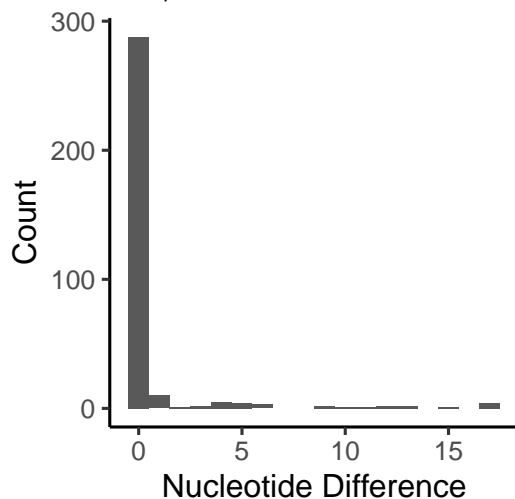


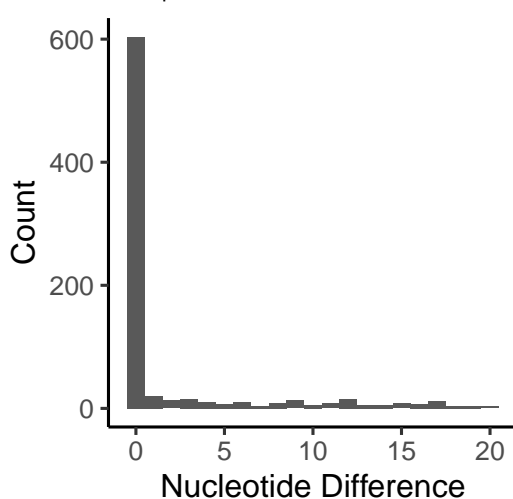
IGHV1-2*04

328 sequences assigned
288 (87.8%) exact matches, in which:
282 unique CDR3
7 unique J



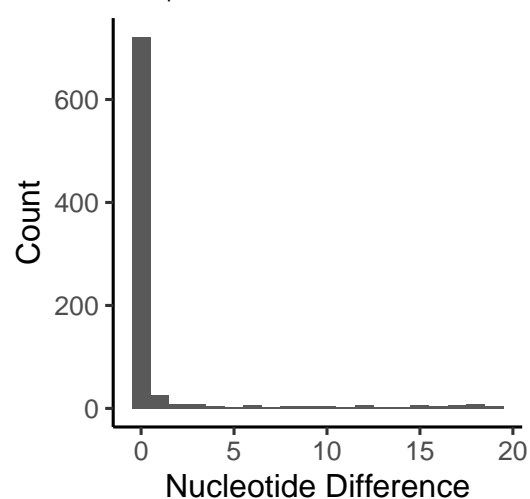
IGHV1-8*01

804 sequences assigned
604 (75.1%) exact matches, in which:
600 unique CDR3
6 unique J



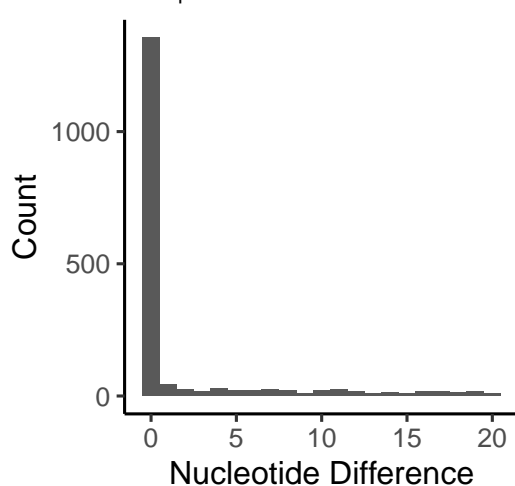
IGHV1-24*01

859 sequences assigned
722 (84.1%) exact matches, in which:
712 unique CDR3
7 unique J



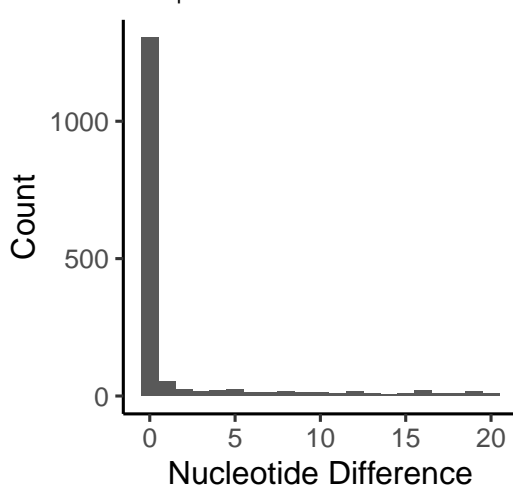
IGHV1-2*06

1836 sequences assigned
1355 (73.8%) exact matches, in which:
1341 unique CDR3
7 unique J



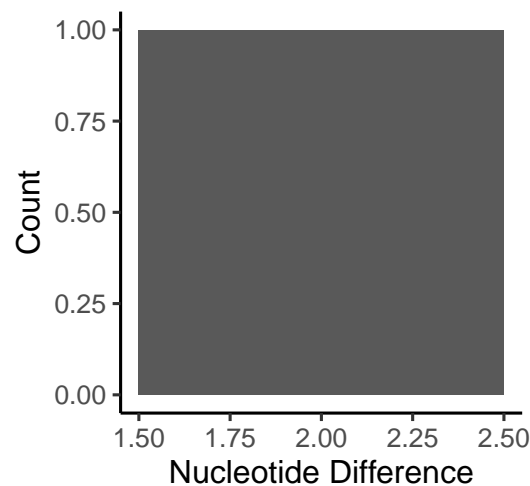
IGHV1-18*01

1696 sequences assigned
1304 (76.9%) exact matches, in which:
1292 unique CDR3
7 unique J



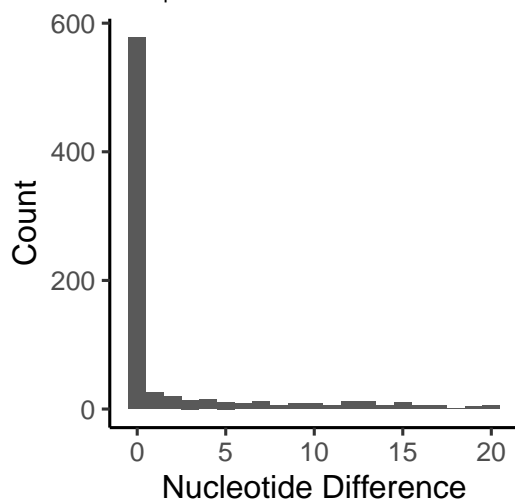
IGHV1-38-4*01

1 sequences assigned
No exact matches.



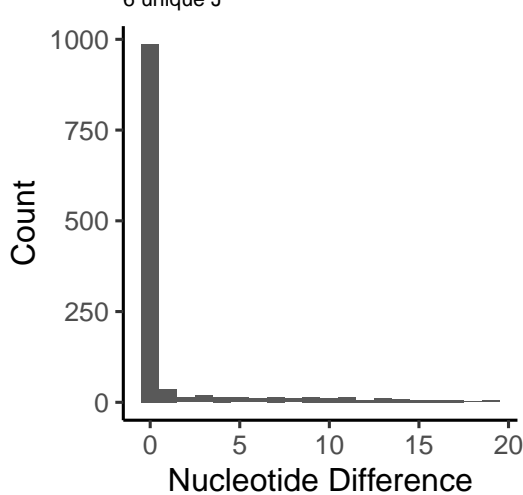
IGHV1-3*01_05

829 sequences assigned
578 (69.7%) exact matches, in which:
577 unique CDR3
7 unique J



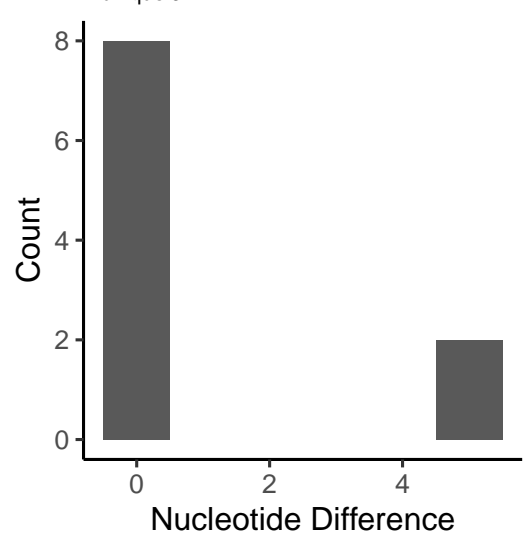
IGHV1-18*04

1274 sequences assigned
987 (77.5%) exact matches, in which:
976 unique CDR3
6 unique J



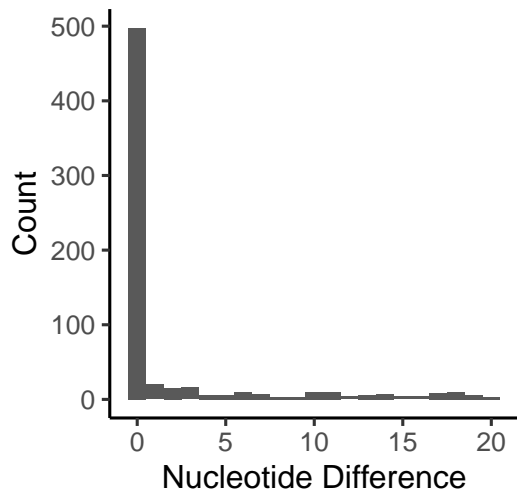
IGHV1-45*02

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



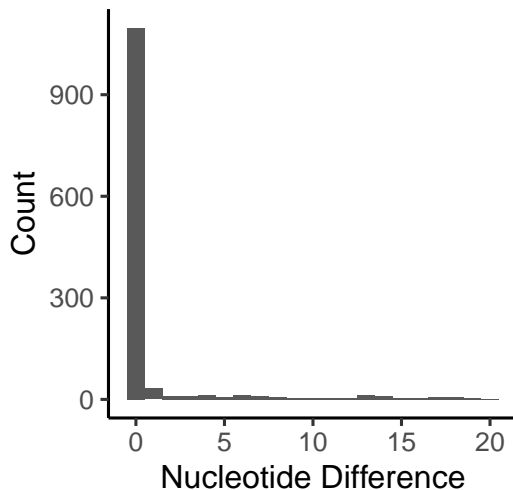
IGHV1–46*03

700 sequences assigned
498 (71.1%) exact matches, in which:
493 unique CDR3
7 unique J



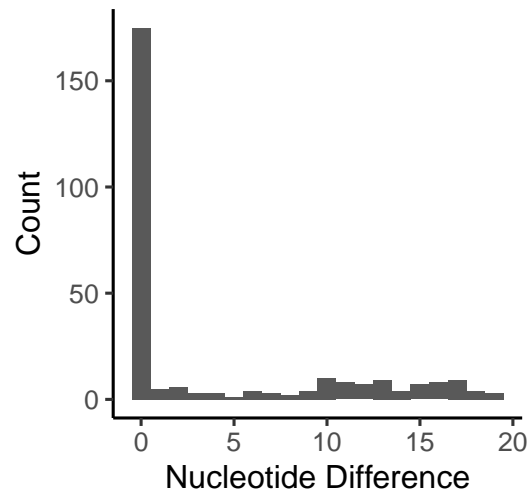
IGHV1–69*01_12_13

1315 sequences assigned
1098 (83.5%) exact matches, in which:
1089 unique CDR3
6 unique J



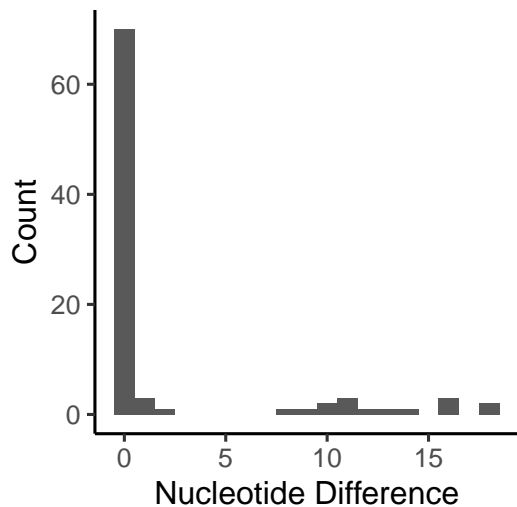
IGHV2–26*01

290 sequences assigned
175 (60.3%) exact matches, in which:
175 unique CDR3
7 unique J



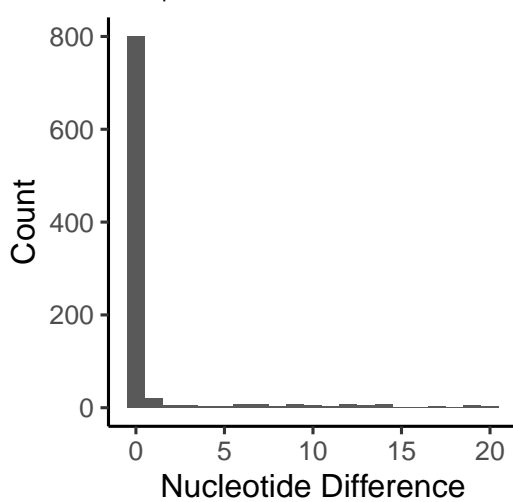
IGHV1–58*02

92 sequences assigned
70 (76.1%) exact matches, in which:
70 unique CDR3
6 unique J



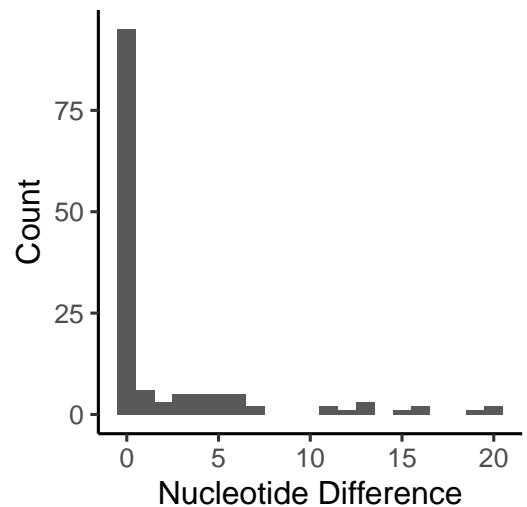
IGHV1–69*04_09

947 sequences assigned
801 (84.6%) exact matches, in which:
796 unique CDR3
7 unique J



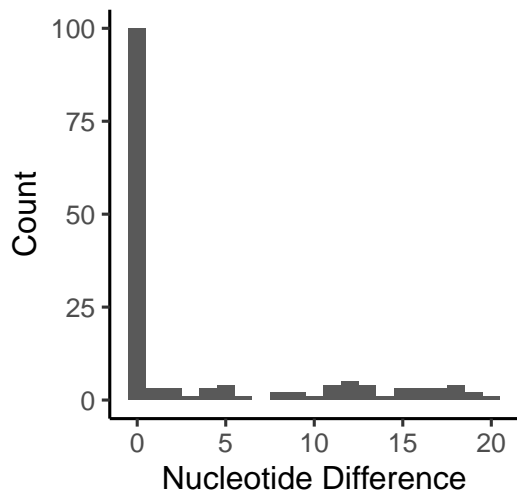
IGHV2–70*01

142 sequences assigned
95 (66.9%) exact matches, in which:
94 unique CDR3
5 unique J



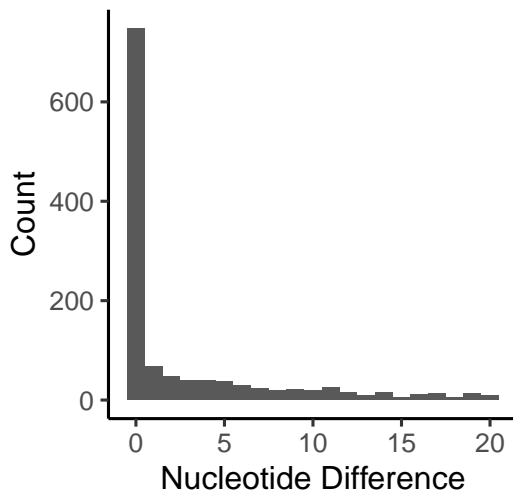
IGHV1–58*01_03

186 sequences assigned
100 (53.8%) exact matches, in which:
99 unique CDR3
6 unique J



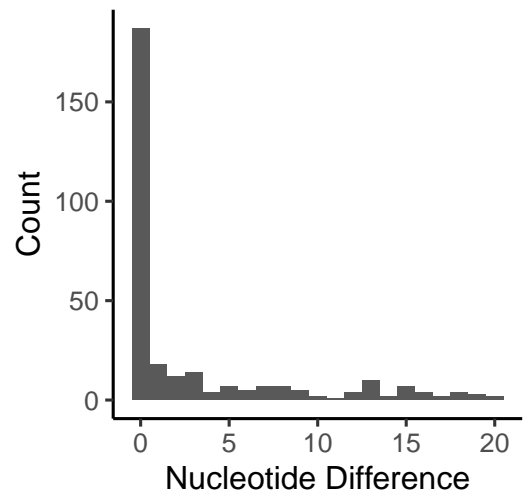
IGHV2–5*02

1266 sequences assigned
748 (59.1%) exact matches, in which:
742 unique CDR3
7 unique J



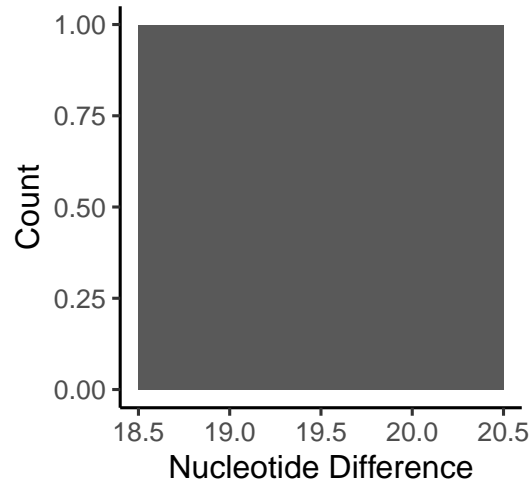
IGHV2–70*11_15

324 sequences assigned
187 (57.7%) exact matches, in which:
185 unique CDR3
6 unique J



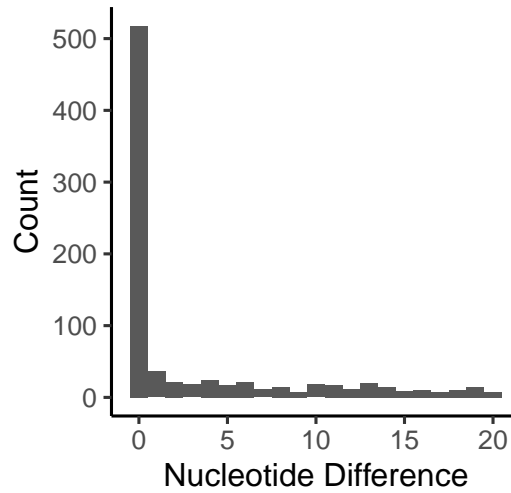
IGHV2-70D*14

2 sequences assigned
No exact matches.



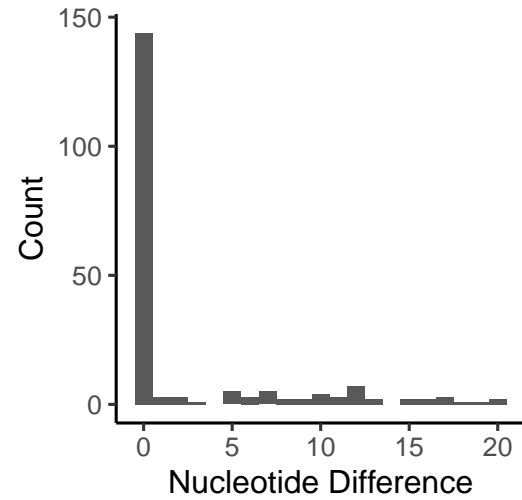
IGHV3-9*01

877 sequences assigned
518 (59.1%) exact matches, in which:
507 unique CDR3
7 unique J



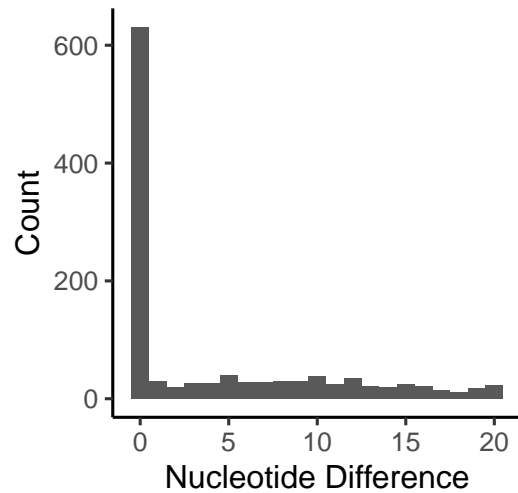
IGHV3-13*01

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



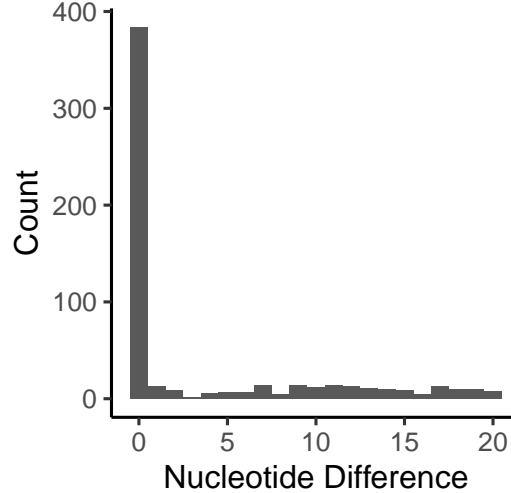
IGHV3-7*01

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



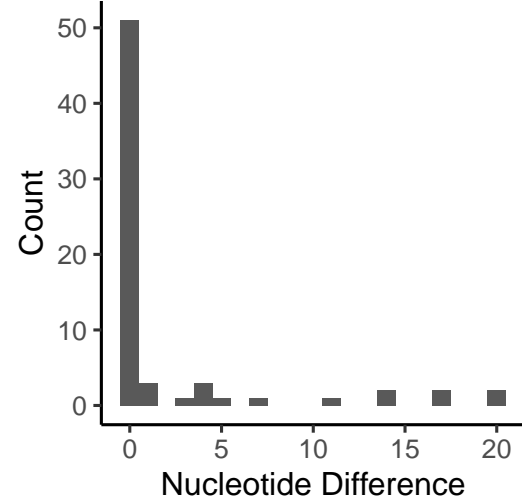
IGHV3-11*01

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



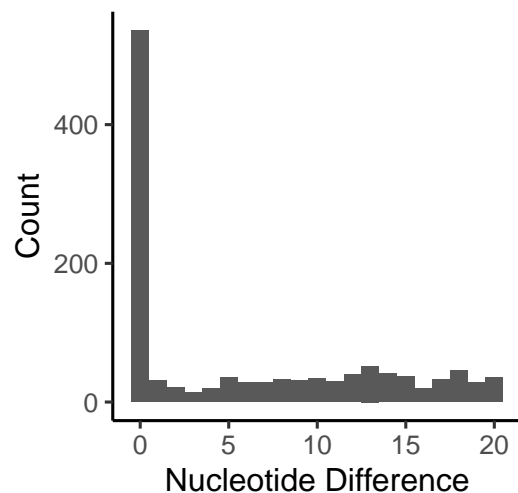
IGHV3-13*05

76 sequences assigned
51 (67.1%) exact matches, in which:
49 unique CDR3
4 unique J



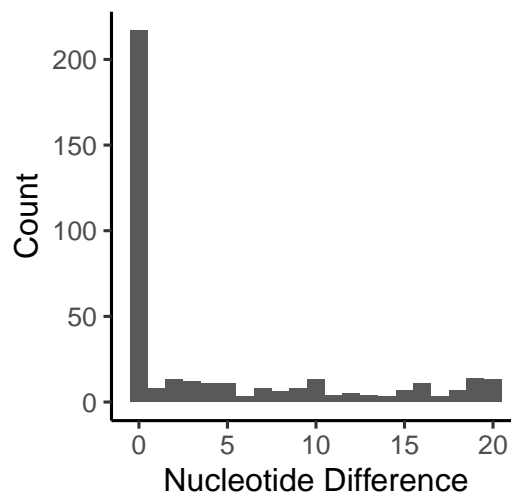
IGHV3-7*03

1351 sequences assigned
536 (39.7%) exact matches, in which:
515 unique CDR3
7 unique J



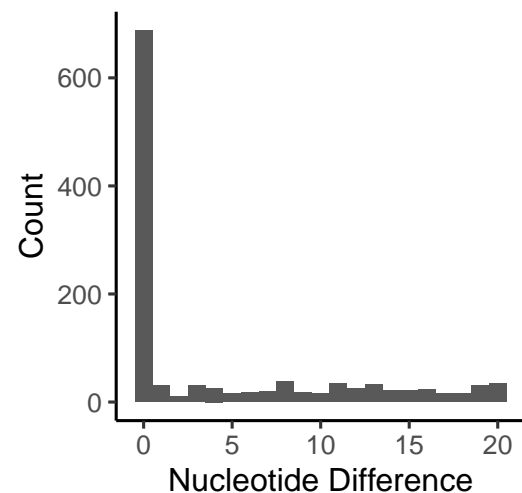
IGHV3-11*06

424 sequences assigned
217 (51.2%) exact matches, in which:
211 unique CDR3
7 unique J



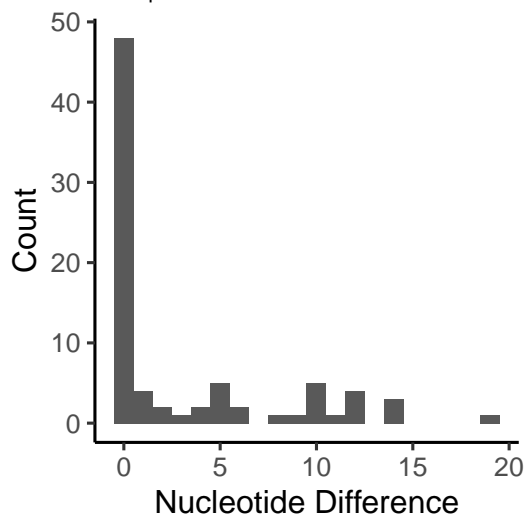
IGHV3-15*01_02

1296 sequences assigned
688 (53.1%) exact matches, in which:
669 unique CDR3
7 unique J



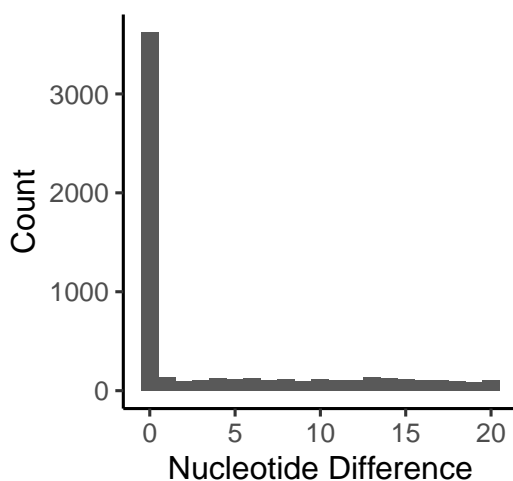
IGHV3-20*01_02

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



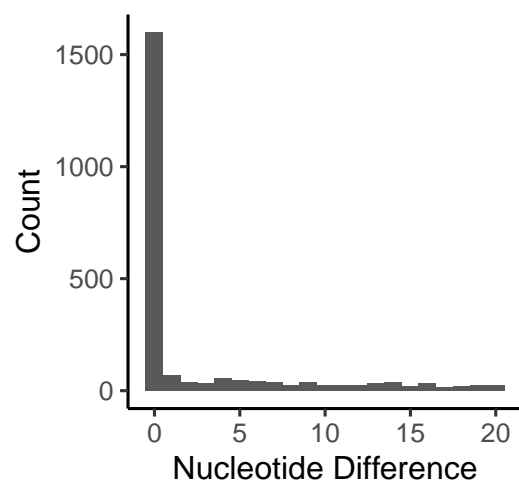
IGHV3-23*01_04

6479 sequences assigned
3622 (55.9%) exact matches, in which:
3444 unique CDR3
7 unique J



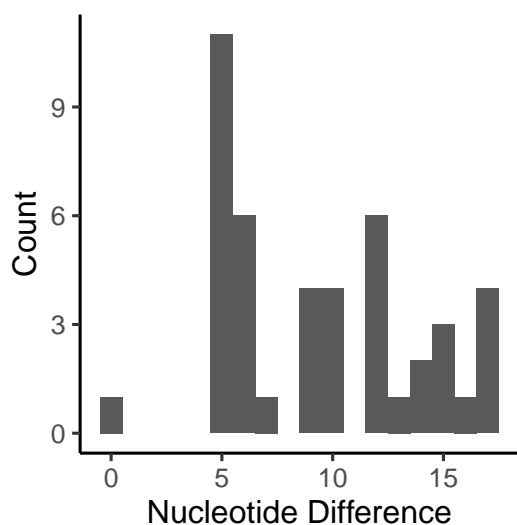
IGHV3-30*04

2490 sequences assigned
1599 (64.2%) exact matches, in which:
1559 unique CDR3
7 unique J



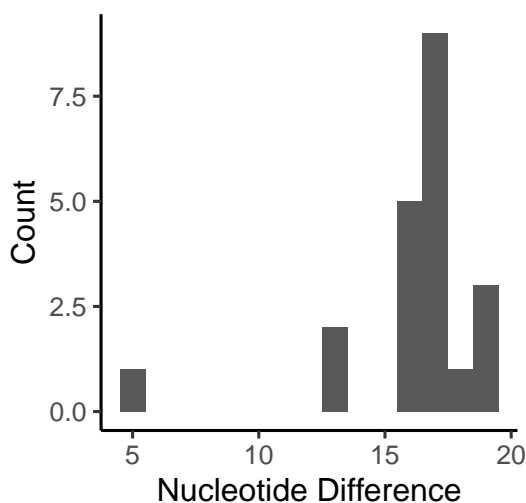
IGHV3-20*03_04

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



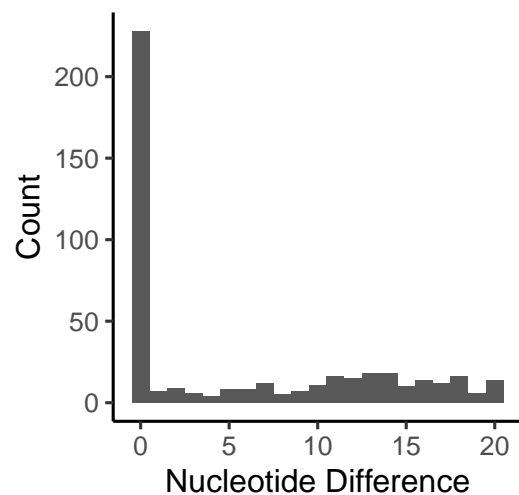
IGHV3-30-3*01

54 sequences assigned
No exact matches.



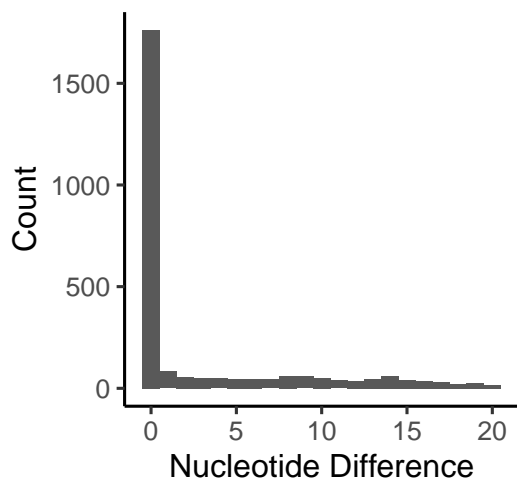
IGHV3-30*18

516 sequences assigned
228 (44.2%) exact matches, in which:
224 unique CDR3
6 unique J



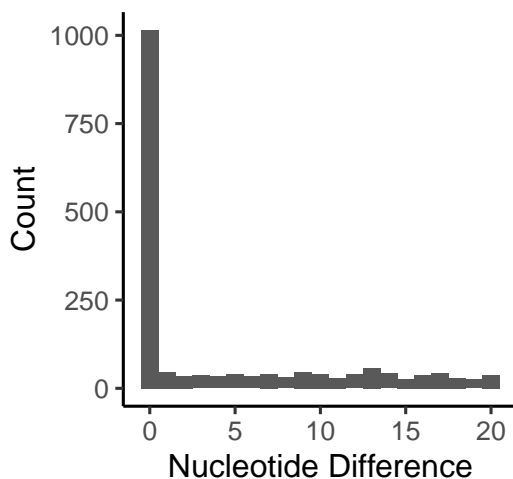
IGHV3-21*01_02

2796 sequences assigned
1762 (63%) exact matches, in which:
1671 unique CDR3
7 unique J



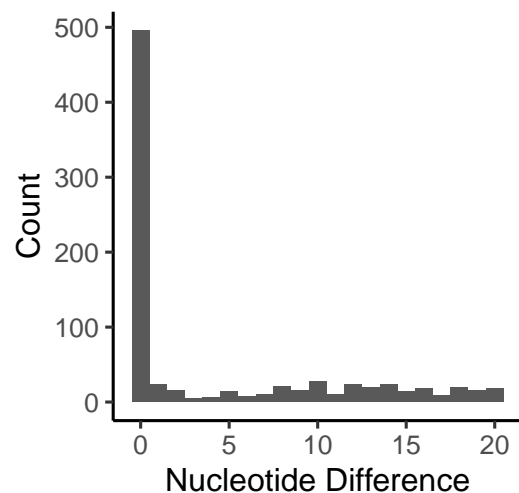
IGHV3-30*02

2012 sequences assigned
1015 (50.4%) exact matches, in which:
977 unique CDR3
7 unique J



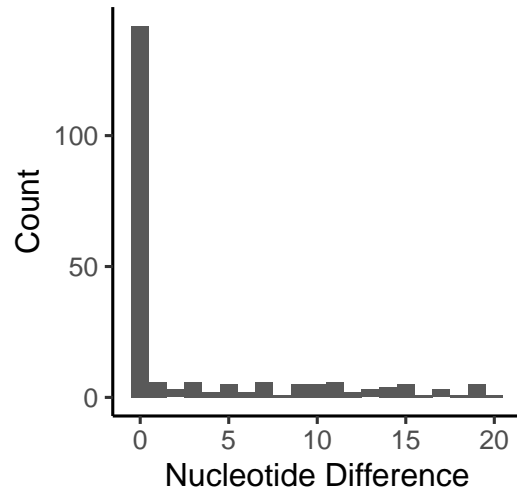
IGHV3-33*01

912 sequences assigned
496 (54.4%) exact matches, in which:
477 unique CDR3
6 unique J



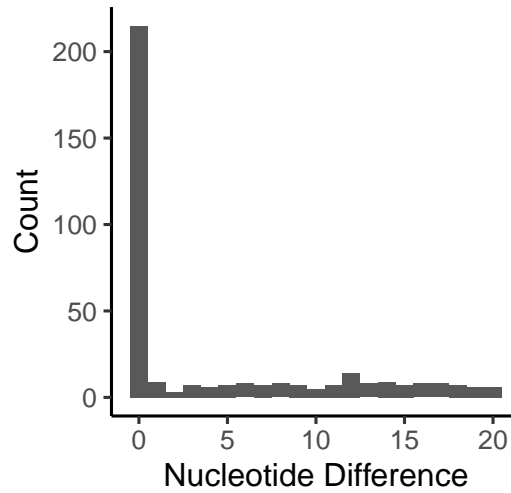
IGHV3–43*01

230 sequences assigned
142 (61.7%) exact matches, in which:
137 unique CDR3
7 unique J



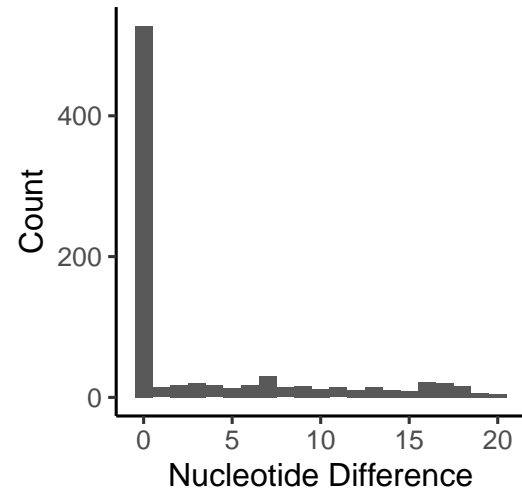
IGHV3–49*03_05

395 sequences assigned
215 (54.4%) exact matches, in which:
207 unique CDR3
7 unique J



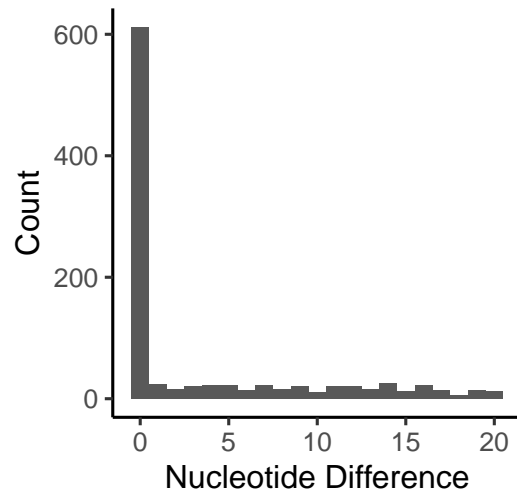
IGHV3–66*01

900 sequences assigned
528 (58.7%) exact matches, in which:
503 unique CDR3
6 unique J



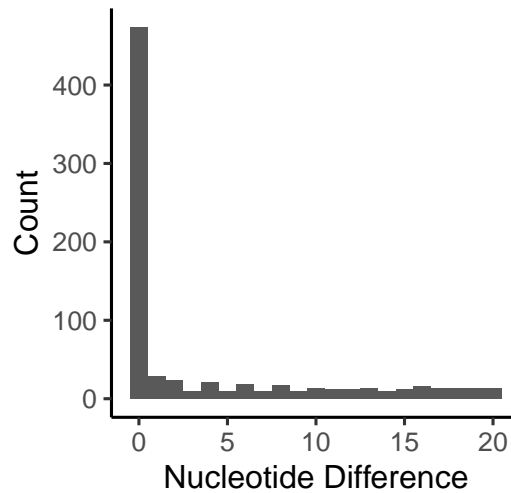
IGHV3–48*01

1038 sequences assigned
612 (59%) exact matches, in which:
581 unique CDR3
6 unique J



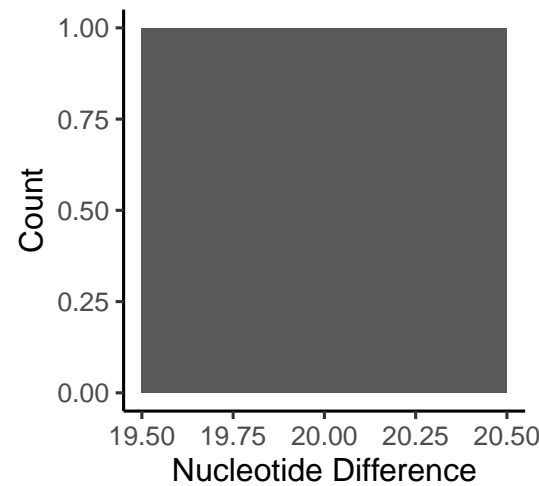
IGHV3–53*01_02

825 sequences assigned
474 (57.5%) exact matches, in which:
442 unique CDR3
7 unique J



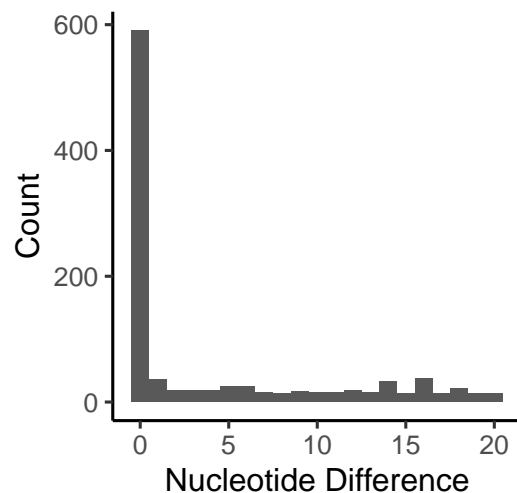
IGHV3–69–1*01

20 sequences assigned
No exact matches.



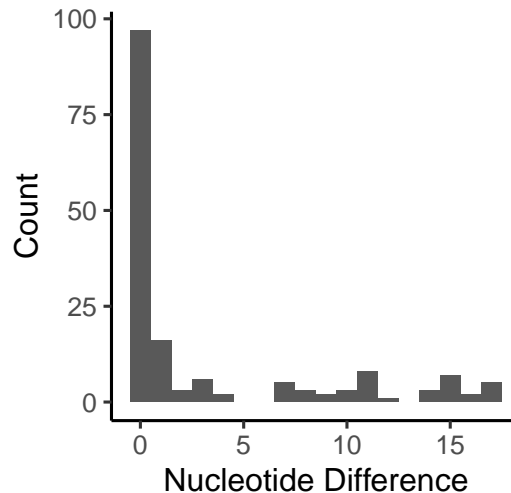
IGHV3–48*02

1085 sequences assigned
591 (54.5%) exact matches, in which:
561 unique CDR3
7 unique J



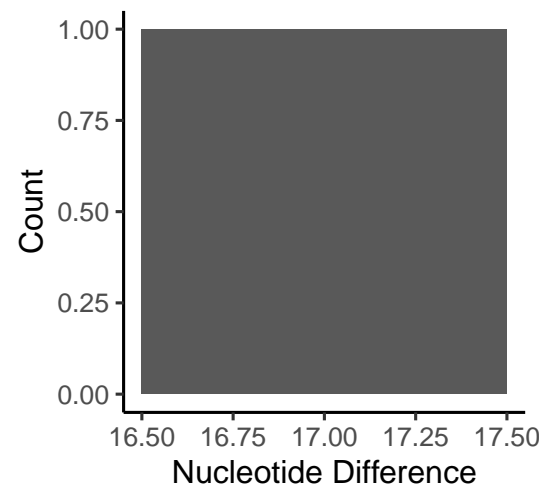
IGHV3–64*01

251 sequences assigned
97 (38.6%) exact matches, in which:
94 unique CDR3
6 unique J



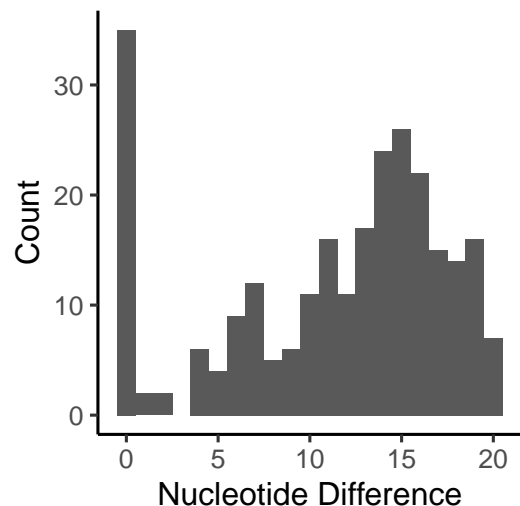
IGHV3–69–1*02

2 sequences assigned
No exact matches.



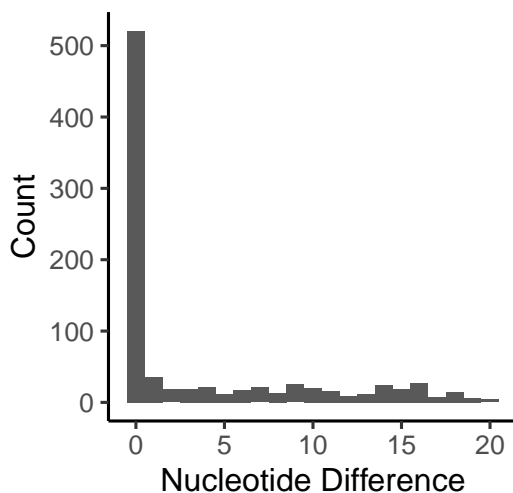
IGHV3-72*01

316 sequences assigned
35 (11.1%) exact matches, in which:
35 unique CDR3
6 unique J



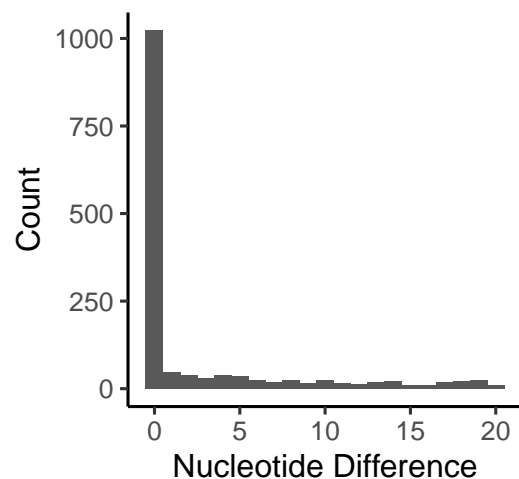
IGHV3-74*01_02

893 sequences assigned
521 (58.3%) exact matches, in which:
493 unique CDR3
7 unique J



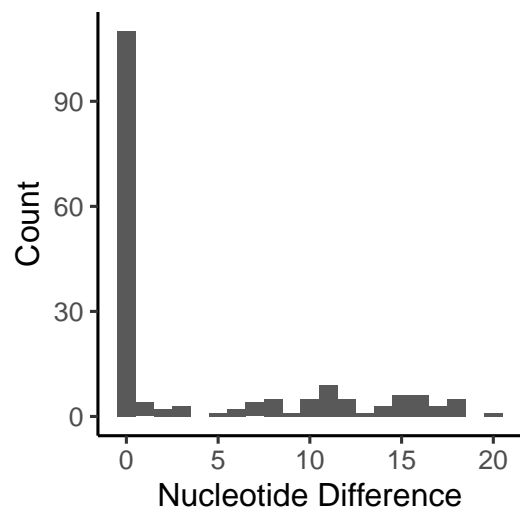
IGHV4-4*02_03

1605 sequences assigned
1023 (63.7%) exact matches, in which:
989 unique CDR3
7 unique J



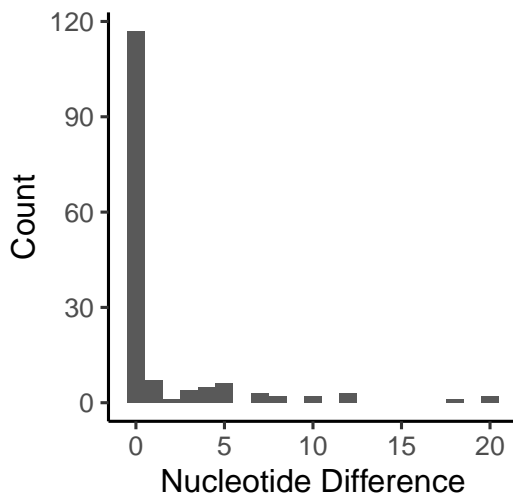
IGHV3-73*01_02

214 sequences assigned
110 (51.4%) exact matches, in which:
108 unique CDR3
6 unique J



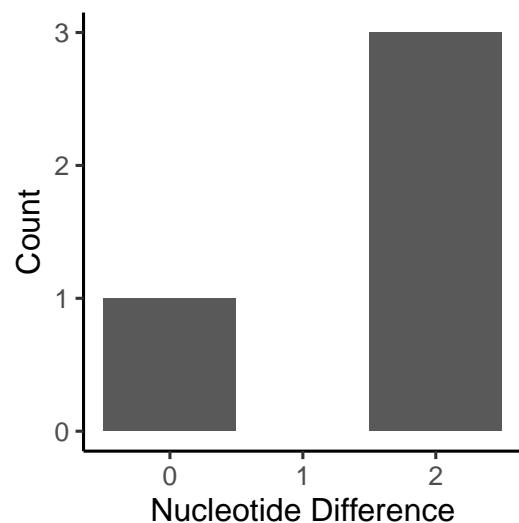
IGHV3-43D*03

162 sequences assigned
117 (72.2%) exact matches, in which:
108 unique CDR3
6 unique J



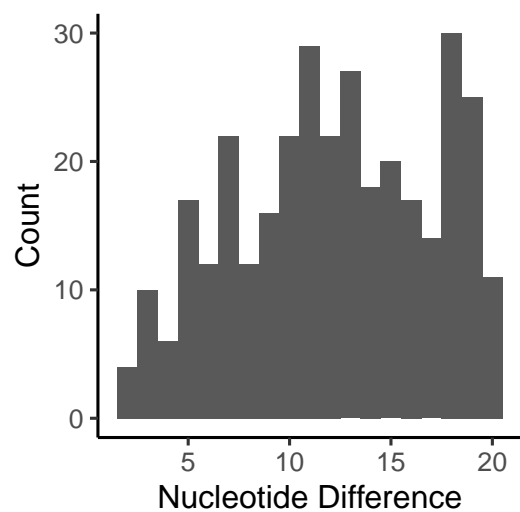
IGHV4-28*01_07

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



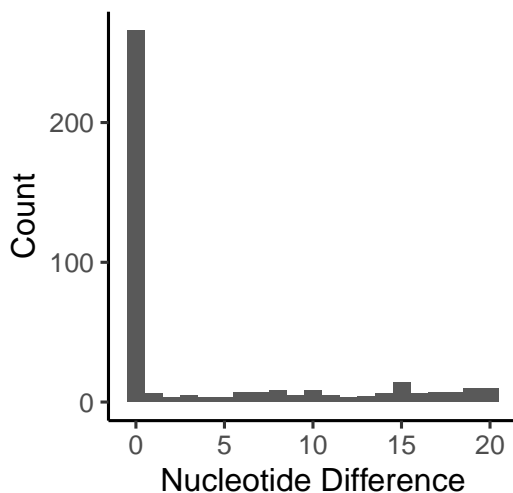
IGHV3-74*03

431 sequences assigned
No exact matches.



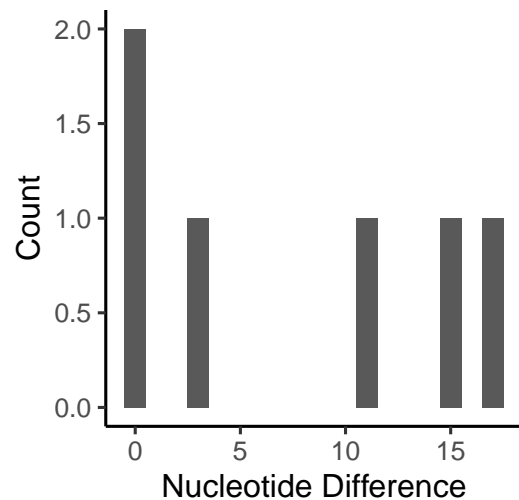
IGHV3-64D*06

439 sequences assigned
266 (60.6%) exact matches, in which:
258 unique CDR3
7 unique J



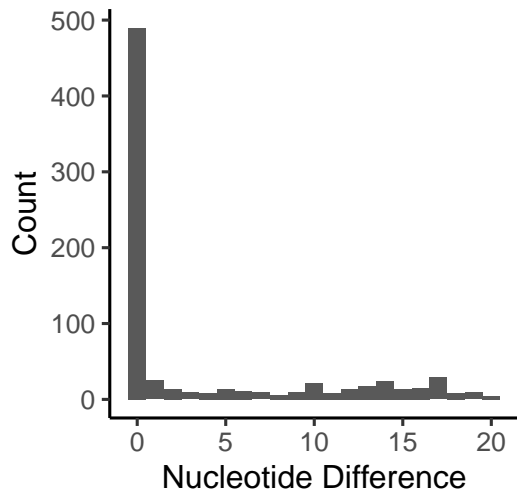
IGHV4-28*02_05

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



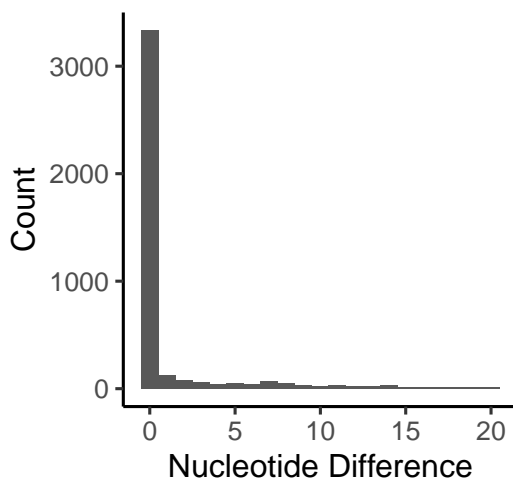
IGHV4-30-2*01

798 sequences assigned
490 (61.4%) exact matches, in which:
464 unique CDR3
6 unique J



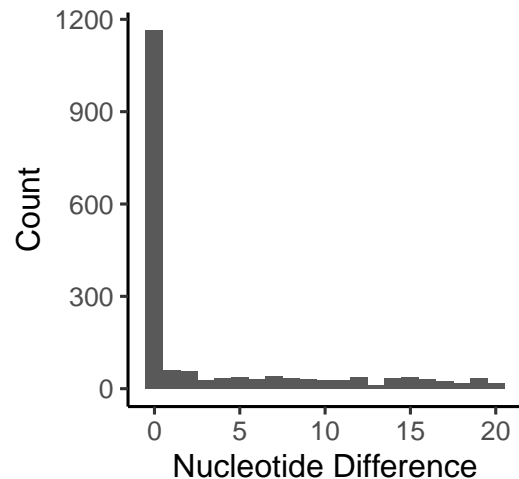
IGHV4-34*01_02

4258 sequences assigned
3333 (78.3%) exact matches, in which:
3175 unique CDR3
7 unique J



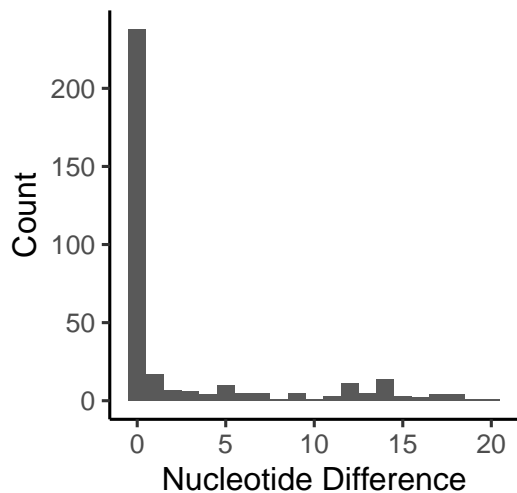
IGHV4-59*08

1966 sequences assigned
1164 (59.2%) exact matches, in which:
1107 unique CDR3
7 unique J



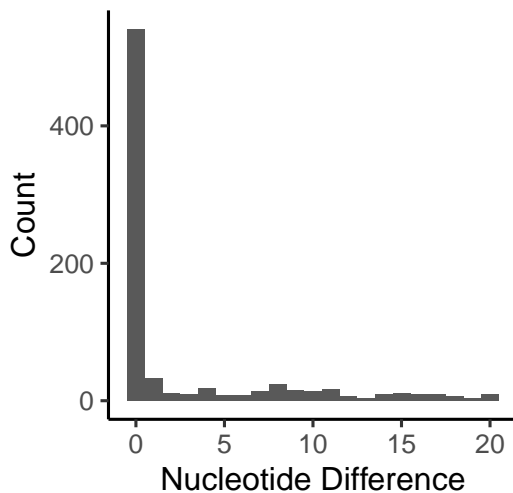
IGHV4-30-4*07

368 sequences assigned
238 (64.7%) exact matches, in which:
233 unique CDR3
5 unique J



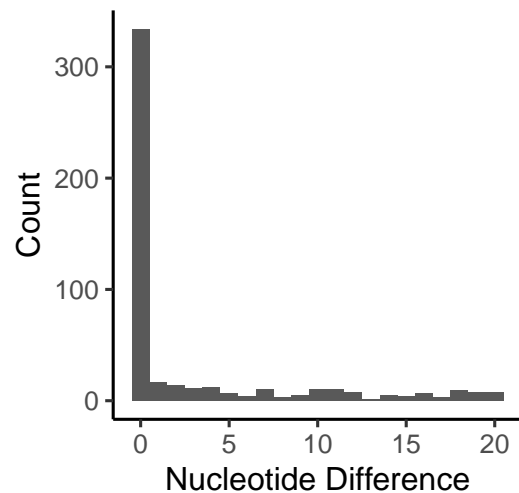
IGHV4-38-2*02

855 sequences assigned
541 (63.3%) exact matches, in which:
527 unique CDR3
6 unique J



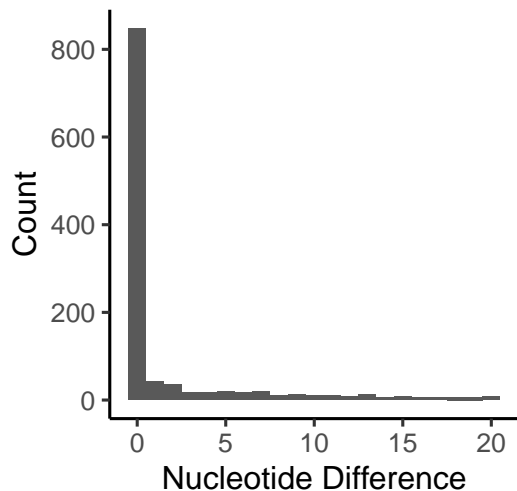
IGHV4-61*01

523 sequences assigned
334 (63.9%) exact matches, in which:
316 unique CDR3
7 unique J



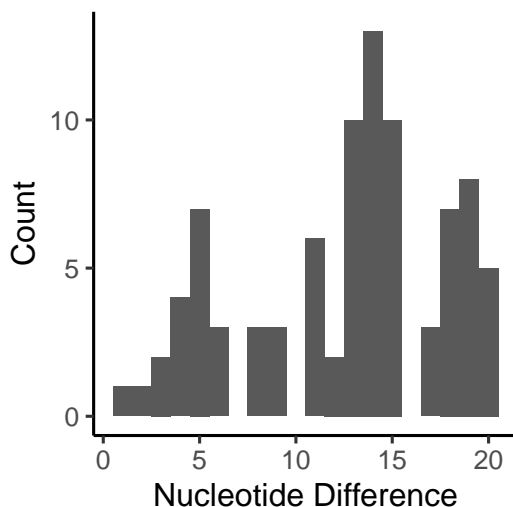
IGHV4-31*02

1204 sequences assigned
848 (70.4%) exact matches, in which:
821 unique CDR3
7 unique J



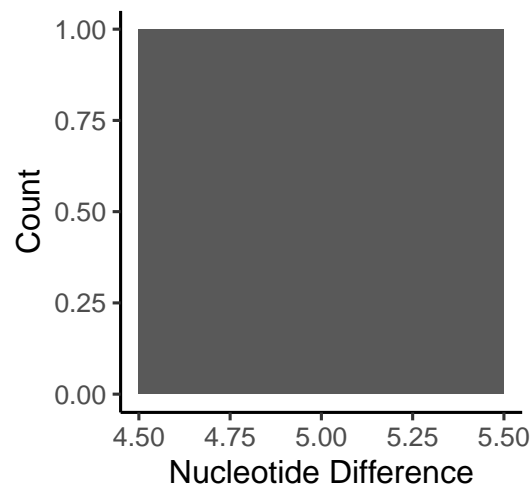
IGHV4-39*02

133 sequences assigned
No exact matches.



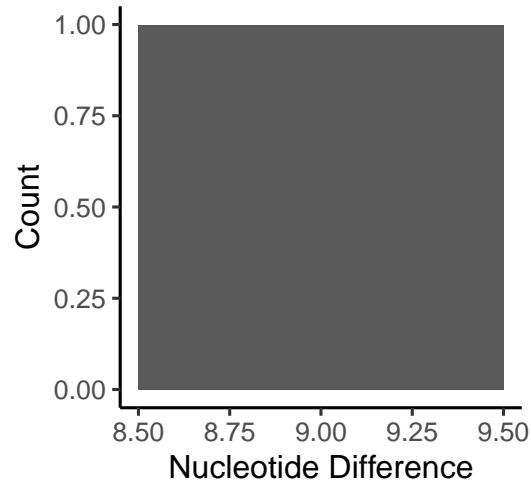
IGHV4/OR15-8*01

15 sequences assigned
No exact matches.



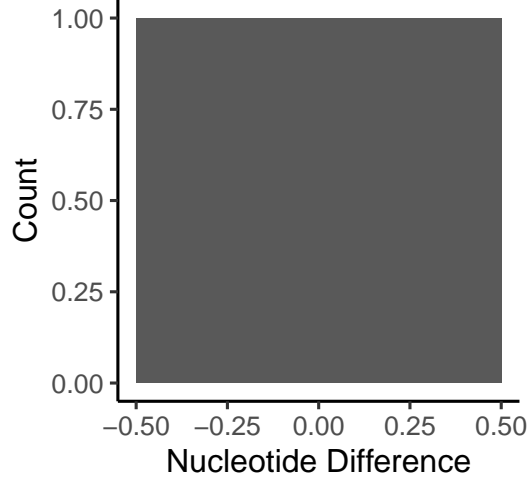
IGHV1/OR15-9*01

1 sequences assigned
No exact matches.



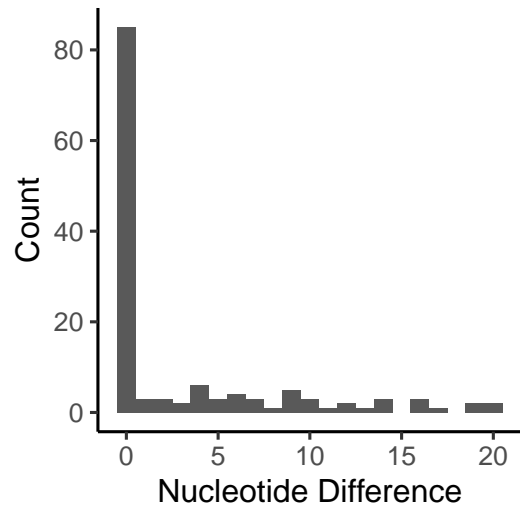
IGHV5-51*01_03

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



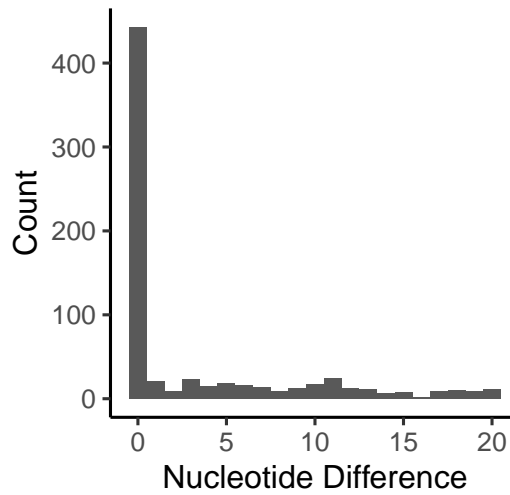
IGHV5-10-1*01_03

140 sequences assigned
85 (60.7%) exact matches, in which:
85 unique CDR3
5 unique J



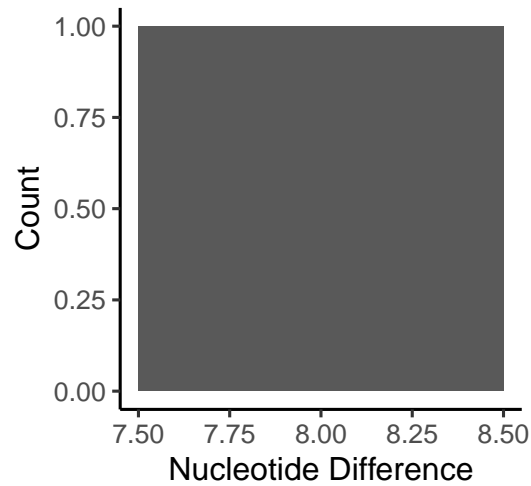
IGHV6-1*01_02

772 sequences assigned
443 (57.4%) exact matches, in which:
434 unique CDR3
7 unique J



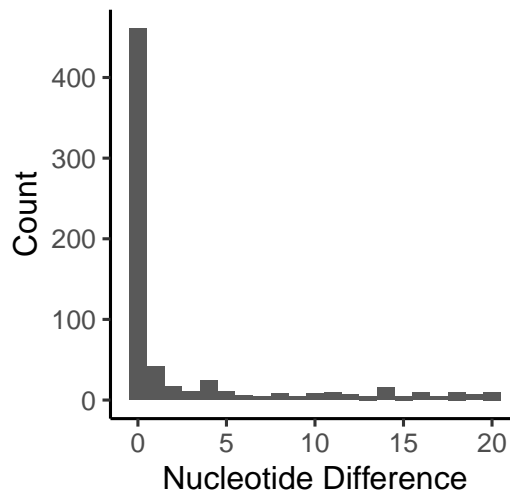
IGHV5-51*04

1 sequences assigned
No exact matches.

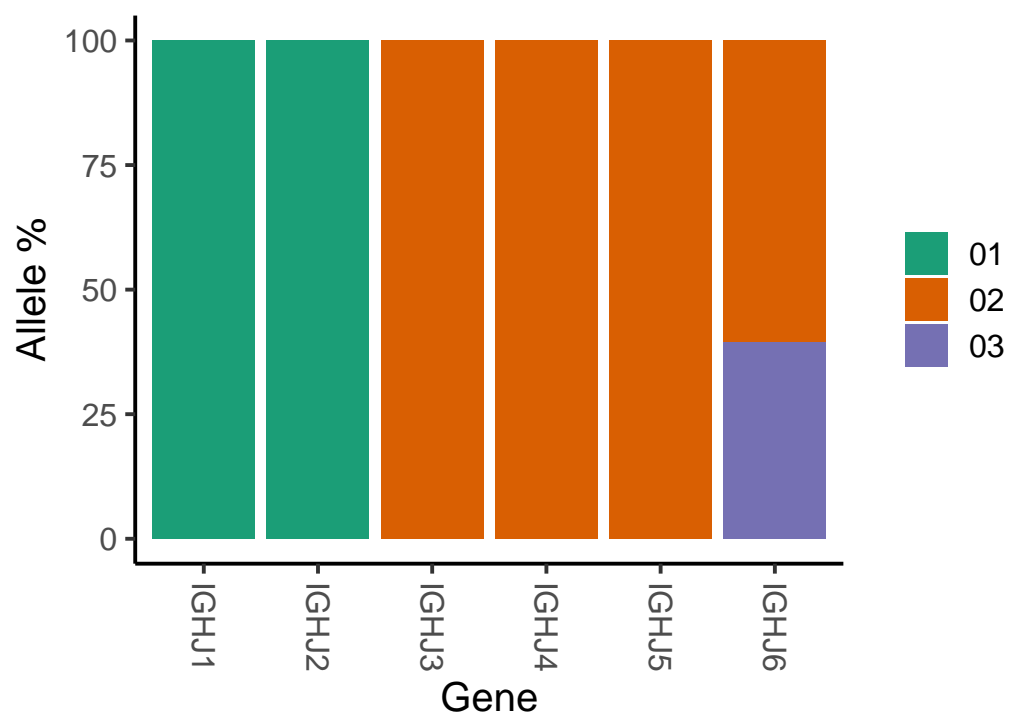


IGHV7-4-1*02

716 sequences assigned
461 (64.4%) exact matches, in which:
459 unique CDR3
7 unique J



Allele Usage



Sequence Count by IGHJ6 allele usage



Warning – no inferred sequences found.