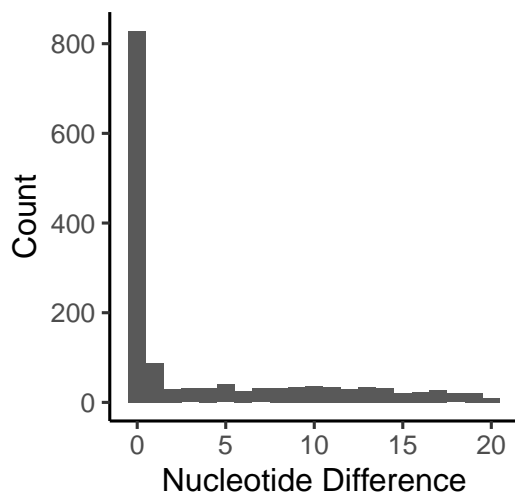


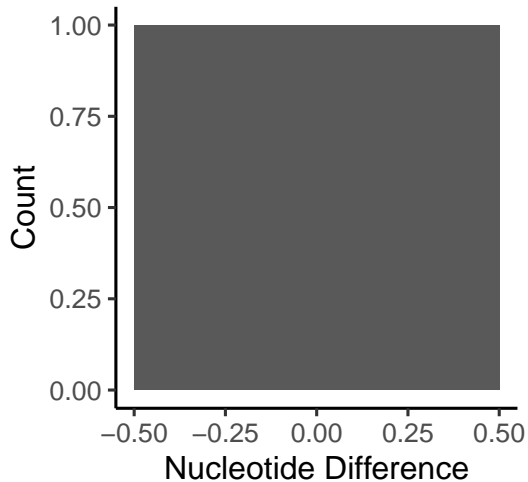
IGHV1-2*06

1608 sequences assigned
829 (51.6%) exact matches, in which:
821 unique CDR3
6 unique J



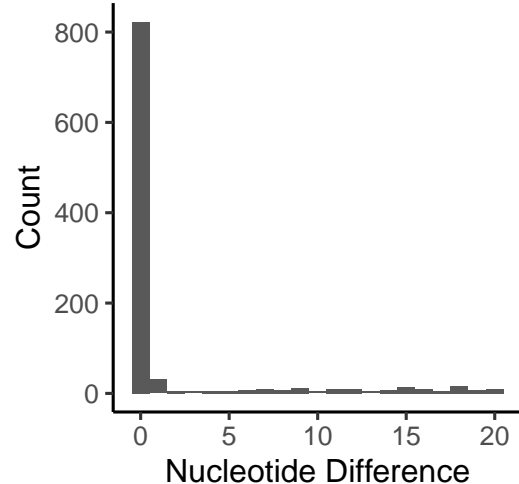
IGHV1-8*03

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



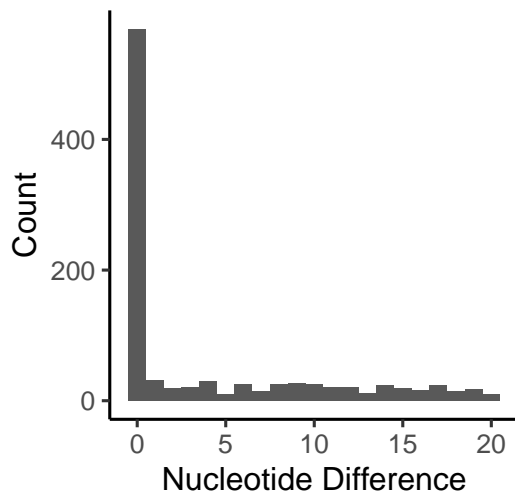
IGHV1-24*01

1056 sequences assigned
823 (77.9%) exact matches, in which:
819 unique CDR3
7 unique J



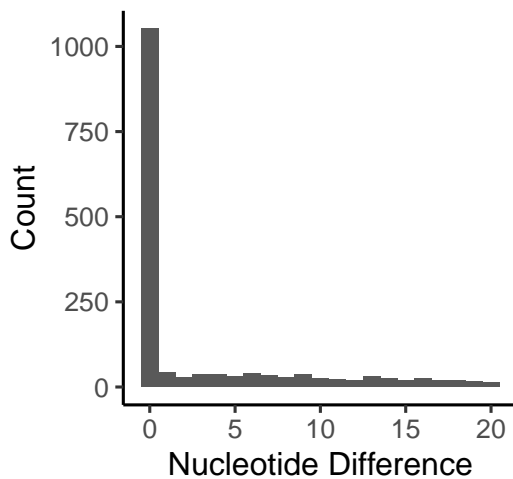
IGHV1-3*01_05

1069 sequences assigned
569 (53.2%) exact matches, in which:
569 unique CDR3
7 unique J



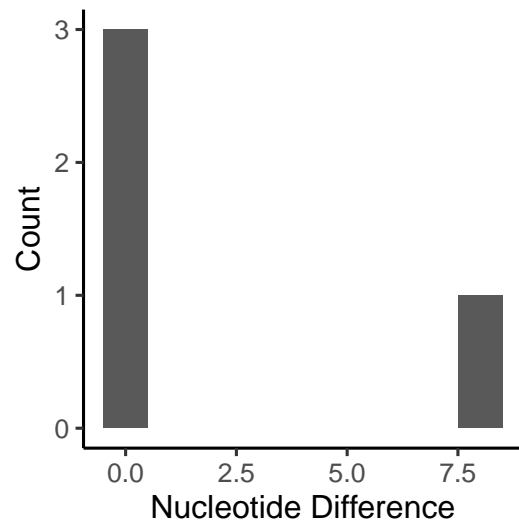
IGHV1-18*01

1742 sequences assigned
1052 (60.4%) exact matches, in which:
1044 unique CDR3
7 unique J



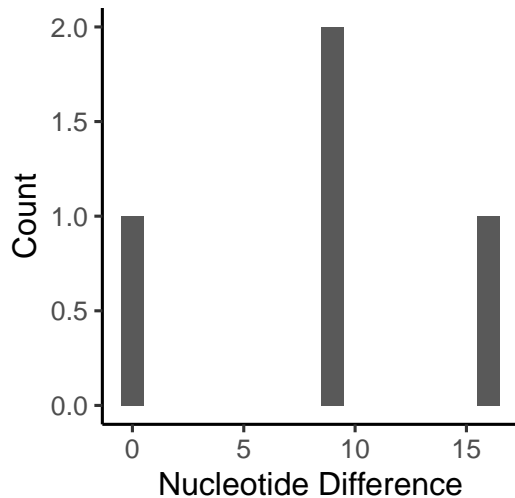
IGHV1-45*02

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



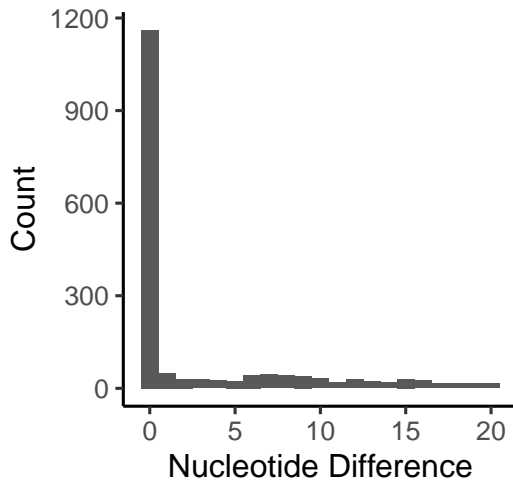
IGHV1-8*01

4 sequences assigned
1 (25%) exact matches, in which:
1 unique CDR3
1 unique J



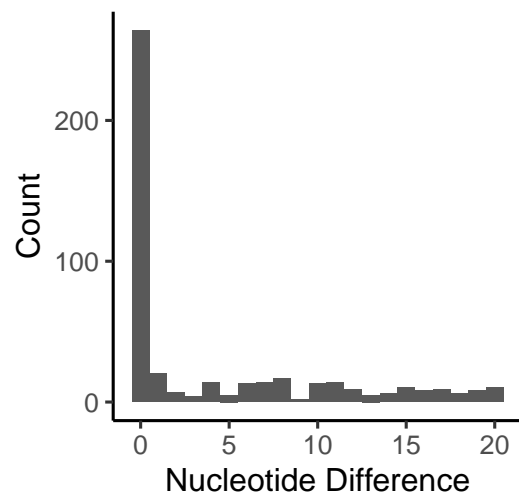
IGHV1-18*04

1876 sequences assigned
1161 (61.9%) exact matches, in which:
1152 unique CDR3
7 unique J



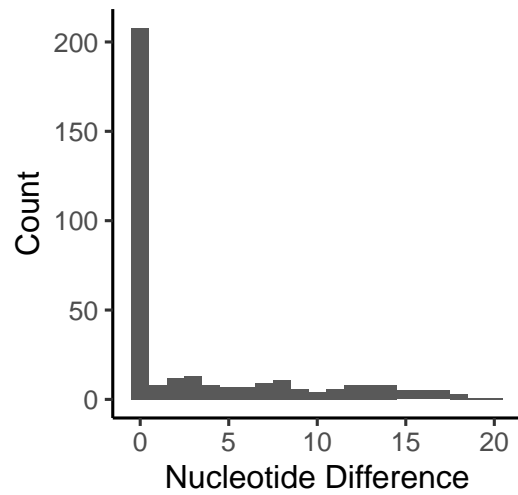
IGHV1-46*01

506 sequences assigned
264 (52.2%) exact matches, in which:
263 unique CDR3
7 unique J



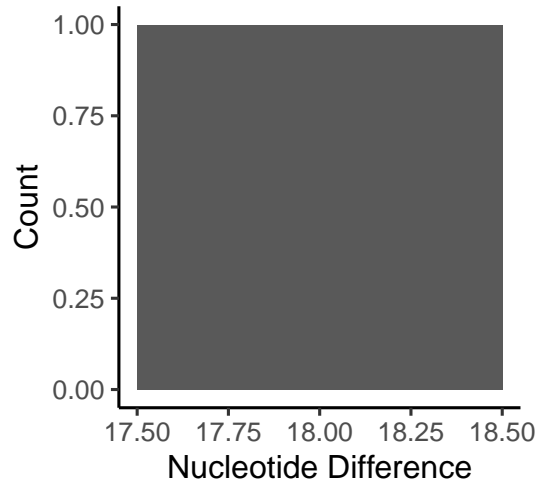
IGHV1-46*03

374 sequences assigned
208 (55.6%) exact matches, in which:
207 unique CDR3
6 unique J



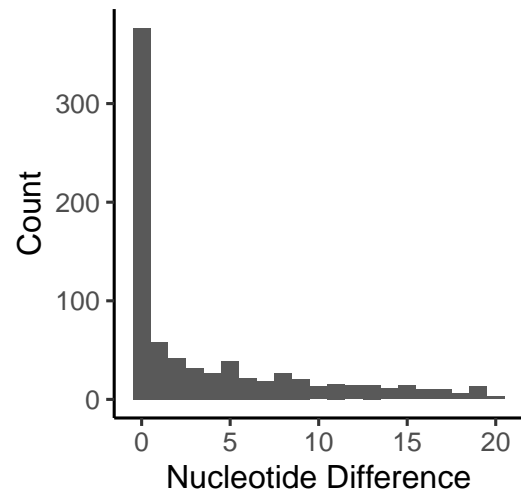
IGHV1-69-2*01

1 sequences assigned
No exact matches.



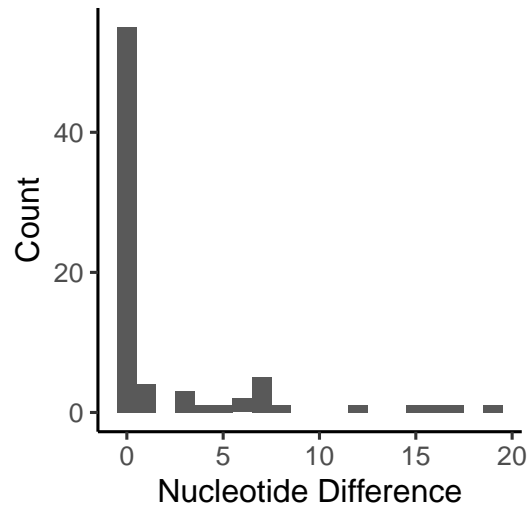
IGHV2-5*02

834 sequences assigned
377 (45.2%) exact matches, in which:
376 unique CDR3
7 unique J



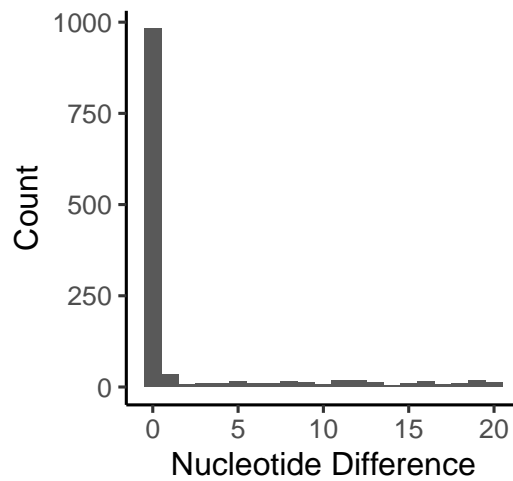
IGHV1-58*02

78 sequences assigned
55 (70.5%) exact matches, in which:
55 unique CDR3
6 unique J



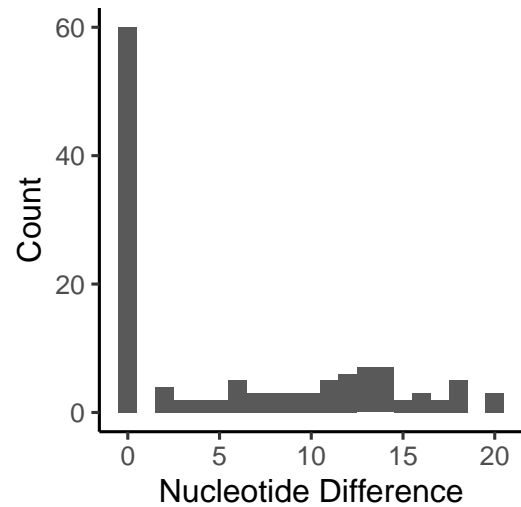
IGHV1-69*01_12_13

1361 sequences assigned
982 (72.2%) exact matches, in which:
981 unique CDR3
7 unique J



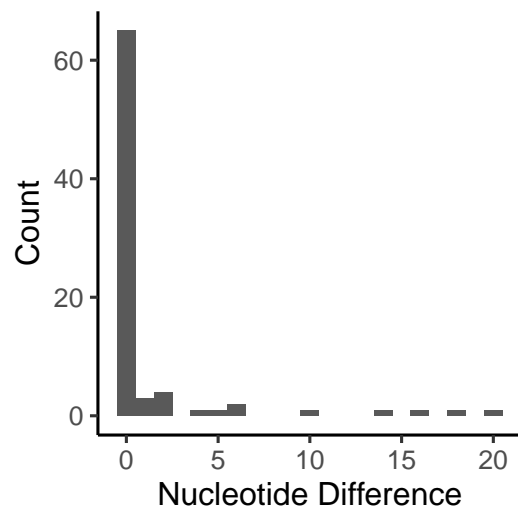
IGHV2-26*01

133 sequences assigned
60 (45.1%) exact matches, in which:
60 unique CDR3
7 unique J



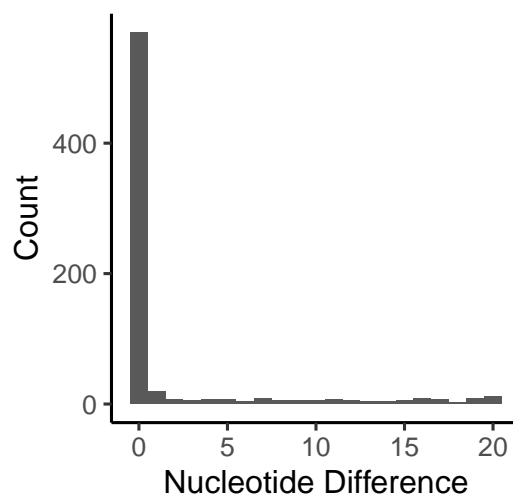
IGHV1-58*01_03

90 sequences assigned
65 (72.2%) exact matches, in which:
65 unique CDR3
6 unique J



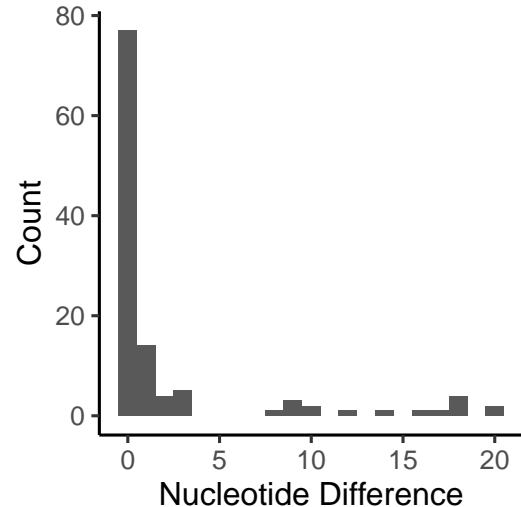
IGHV1-69*06_14

807 sequences assigned
570 (70.6%) exact matches, in which:
570 unique CDR3
7 unique J



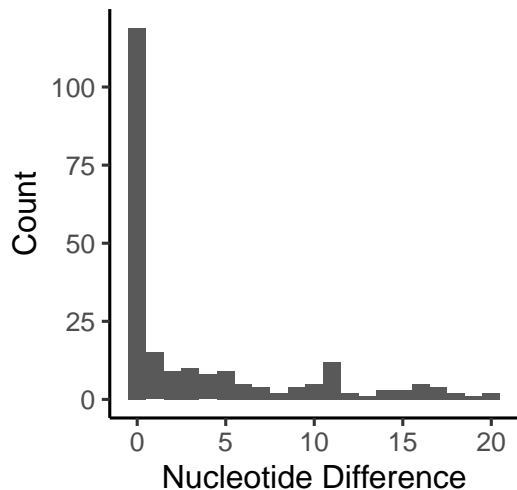
IGHV2-70*01

124 sequences assigned
77 (62.1%) exact matches, in which:
72 unique CDR3
5 unique J



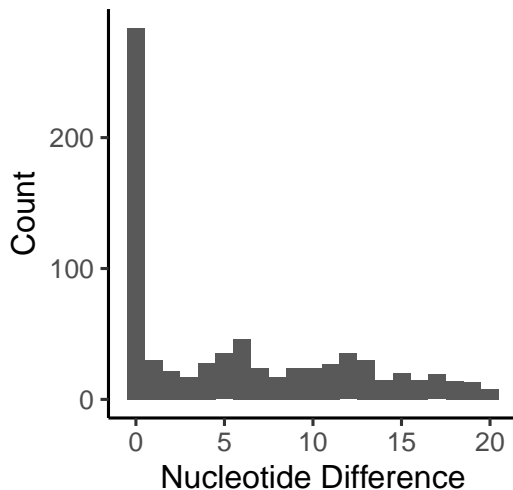
IGHV2-70*11_15

235 sequences assigned
119 (50.6%) exact matches, in which:
119 unique CDR3
6 unique J



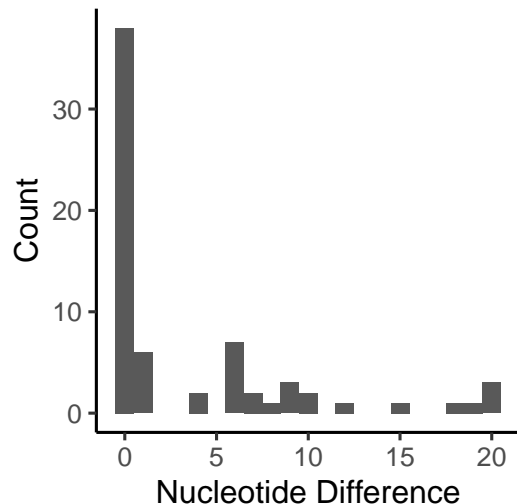
IGHV3-11*06

846 sequences assigned
284 (33.6%) exact matches, in which:
282 unique CDR3
7 unique J



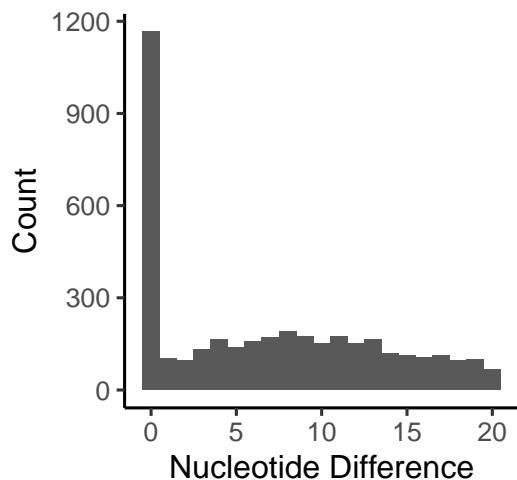
IGHV3-20*01_02

69 sequences assigned
38 (55.1%) exact matches, in which:
37 unique CDR3
5 unique J



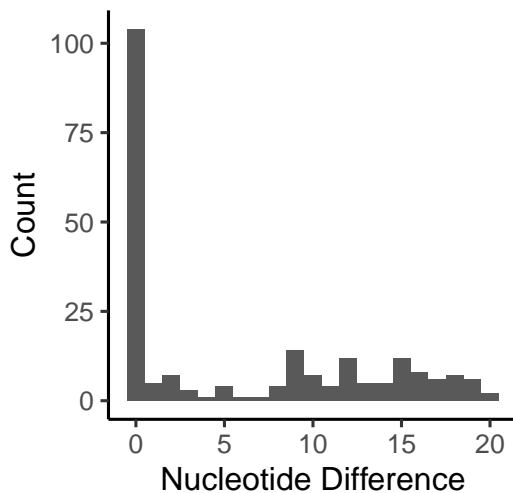
IGHV3-7*03

4148 sequences assigned
1166 (28.1%) exact matches, in which:
1134 unique CDR3
7 unique J



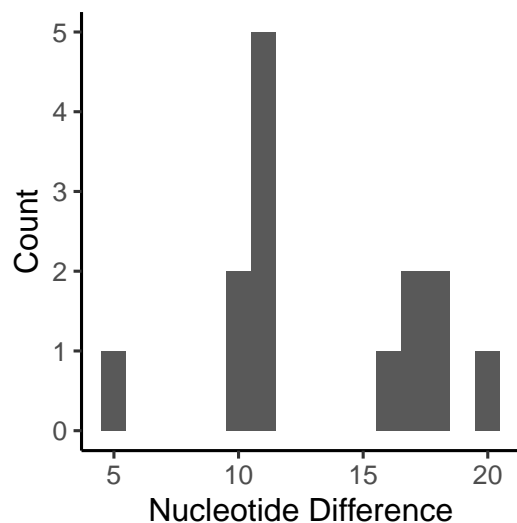
IGHV3-13*05

233 sequences assigned
104 (44.6%) exact matches, in which:
103 unique CDR3
6 unique J



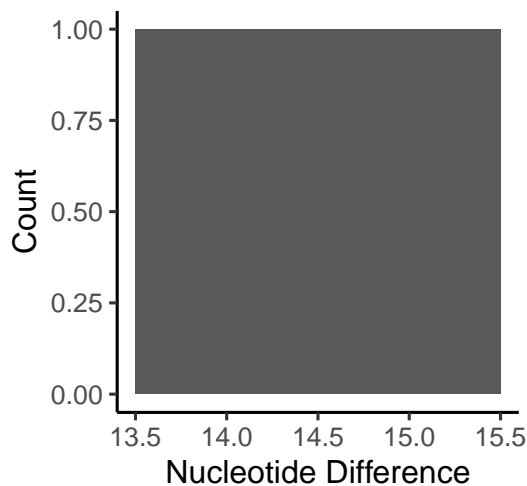
IGHV3-20*03_04

20 sequences assigned
No exact matches.



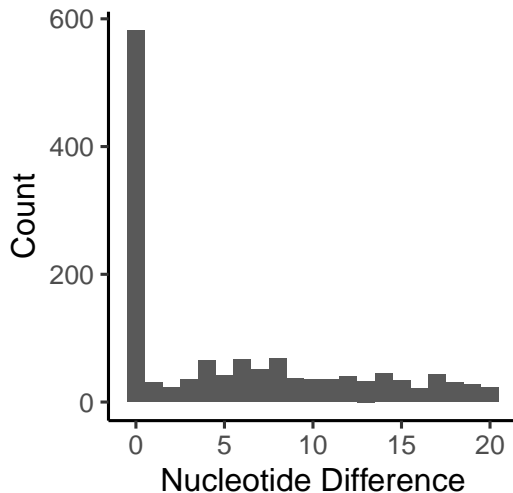
IGHV3-9*01

2 sequences assigned
No exact matches.



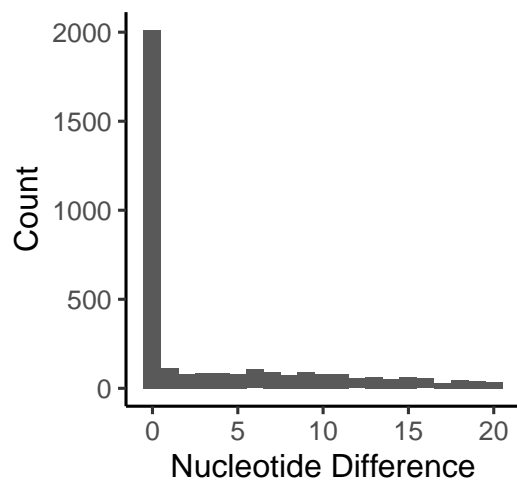
IGHV3-15*01_02

1506 sequences assigned
582 (38.6%) exact matches, in which:
571 unique CDR3
7 unique J



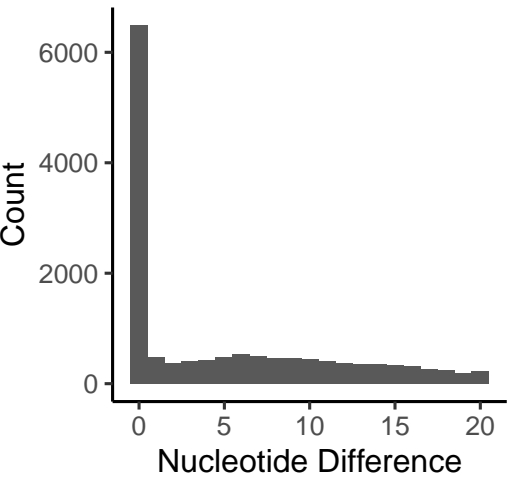
IGHV3-21*01_02

3793 sequences assigned
2012 (53%) exact matches, in which:
1959 unique CDR3
7 unique J



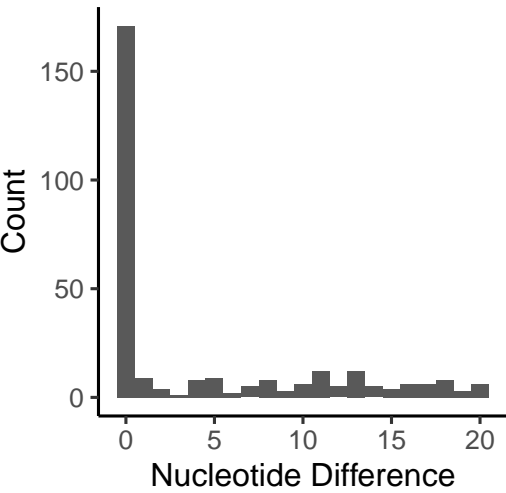
IGHV3-23*01_04

15542 sequences assigned
6487 (41.7%) exact matches, in which:
6344 unique CDR3
7 unique J



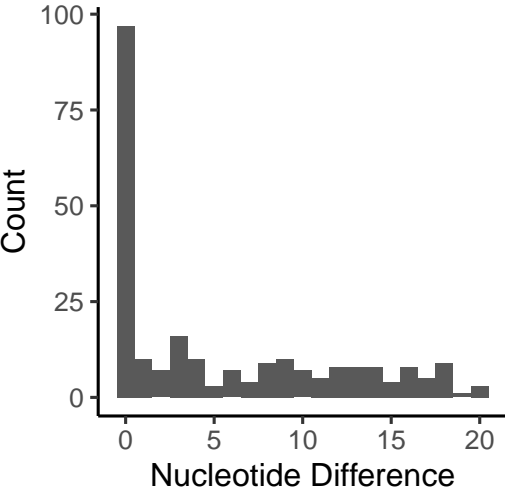
IGHV3-43*01

341 sequences assigned
171 (50.1%) exact matches, in which:
170 unique CDR3
7 unique J



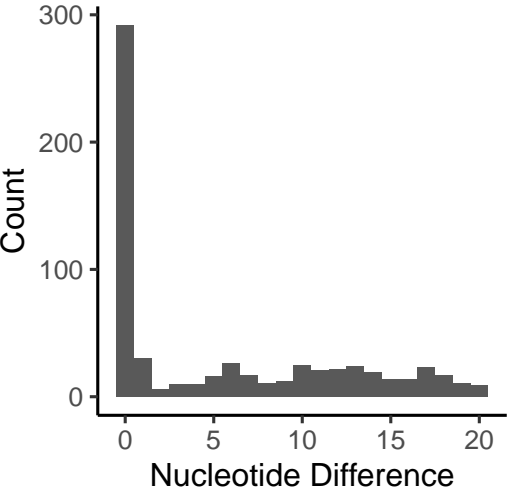
IGHV3-49*04

252 sequences assigned
97 (38.5%) exact matches, in which:
97 unique CDR3
6 unique J



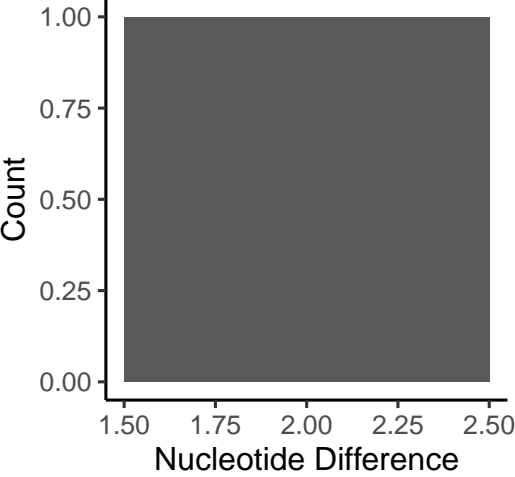
IGHV3-33*01

739 sequences assigned
292 (39.5%) exact matches, in which:
288 unique CDR3
7 unique J



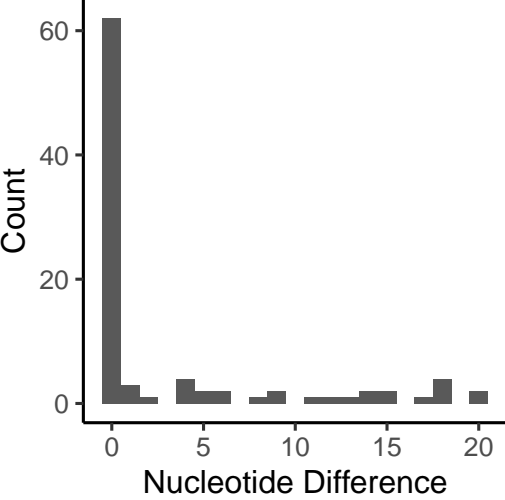
IGHV3-47*02

1 sequences assigned
No exact matches.



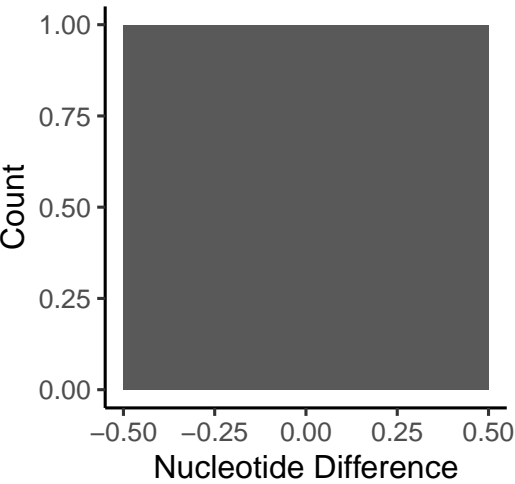
IGHV3-49*03_05

106 sequences assigned
62 (58.5%) exact matches, in which:
61 unique CDR3
6 unique J



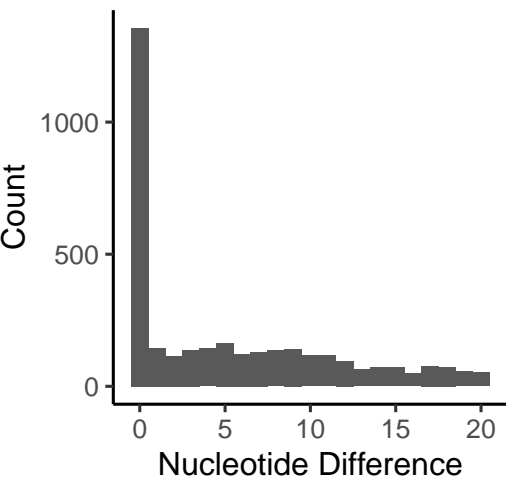
IGHV3-38-3*01

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



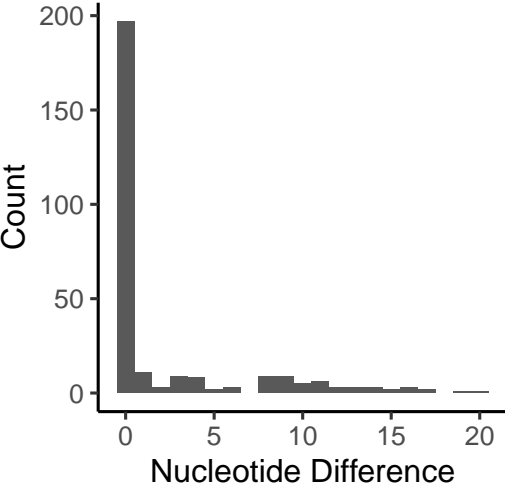
IGHV3-48*02

3739 sequences assigned
1356 (36.3%) exact matches, in which:
1326 unique CDR3
7 unique J



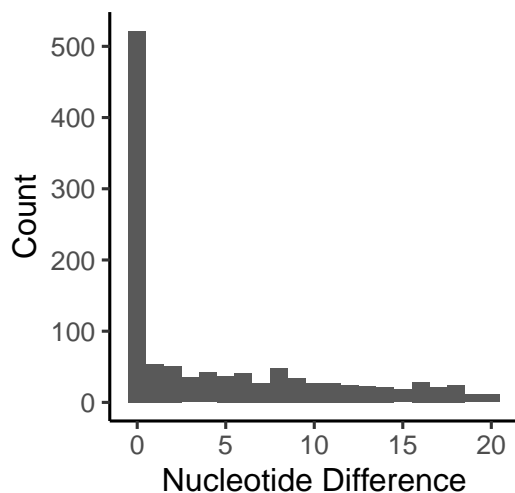
IGHV3-53*04

294 sequences assigned
197 (67%) exact matches, in which:
193 unique CDR3
6 unique J



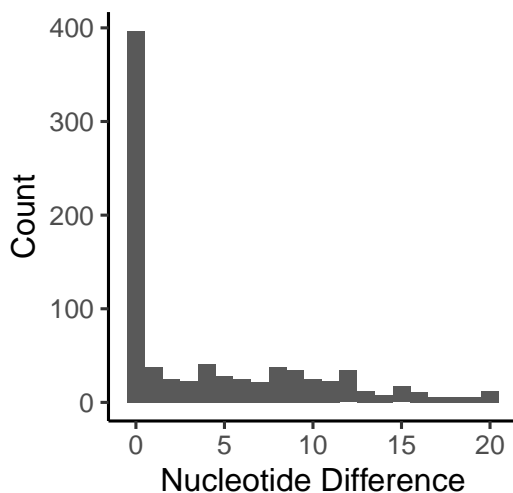
IGHV3–53*01_02

1216 sequences assigned
522 (42.9%) exact matches, in which:
511 unique CDR3
7 unique J



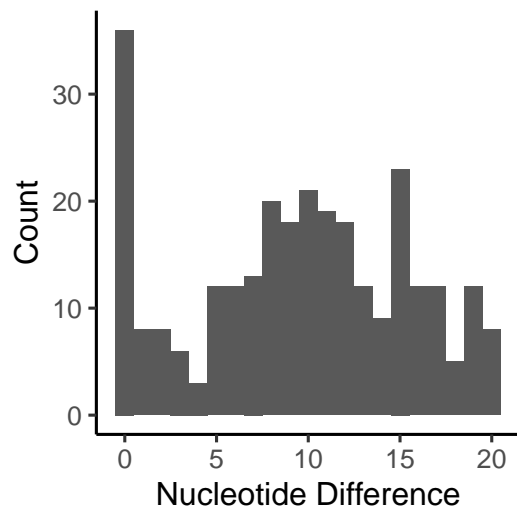
IGHV3–66*01

915 sequences assigned
397 (43.4%) exact matches, in which:
390 unique CDR3
7 unique J



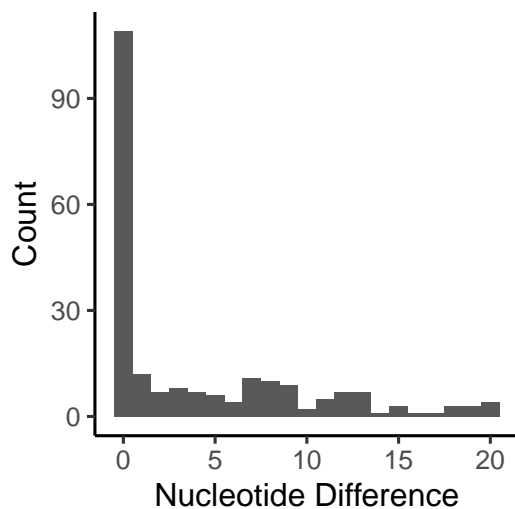
IGHV3–72*01

312 sequences assigned
36 (11.5%) exact matches, in which:
34 unique CDR3
4 unique J



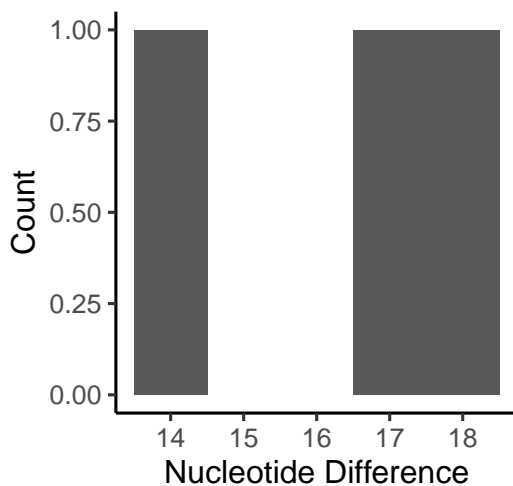
IGHV3–64*01

260 sequences assigned
109 (41.9%) exact matches, in which:
104 unique CDR3
6 unique J



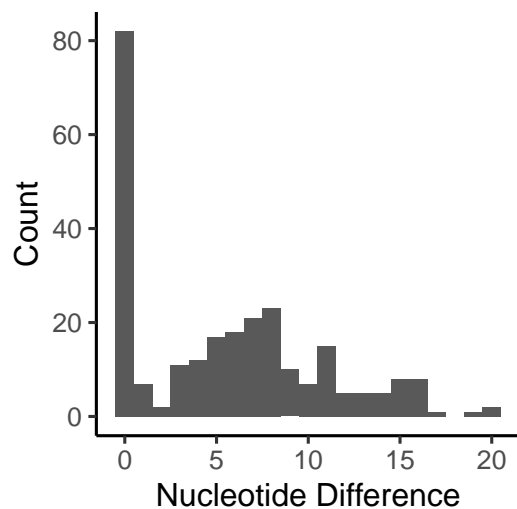
IGHV3–69–1*01

8 sequences assigned
No exact matches.



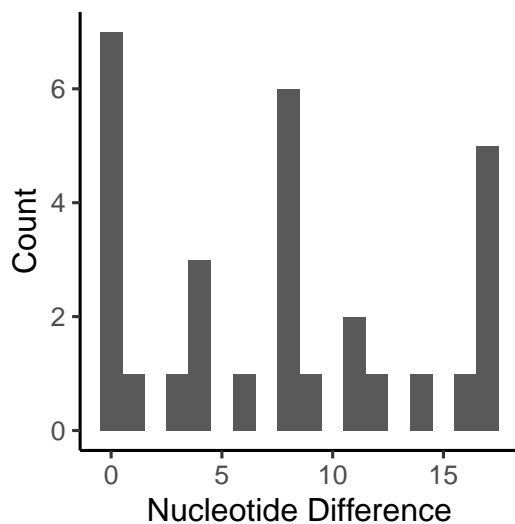
IGHV3–73*01_02

284 sequences assigned
82 (28.9%) exact matches, in which:
79 unique CDR3
6 unique J



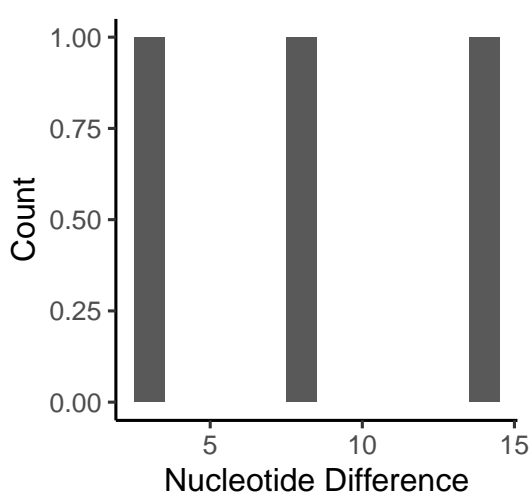
IGHV3–64*02_07

40 sequences assigned
7 (17.5%) exact matches, in which:
7 unique CDR3
3 unique J



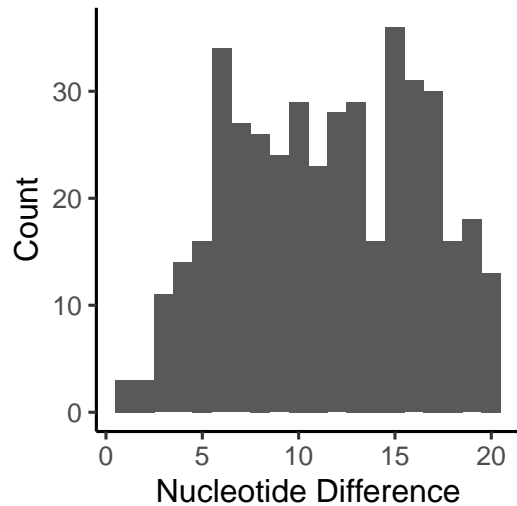
IGHV3–69–1*02

5 sequences assigned
No exact matches.



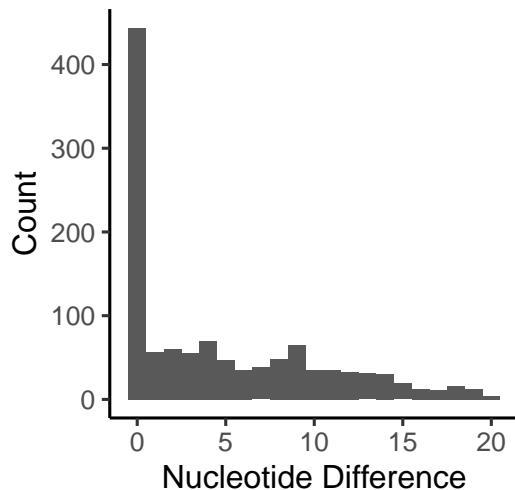
IGHV3–74*03

493 sequences assigned
No exact matches.



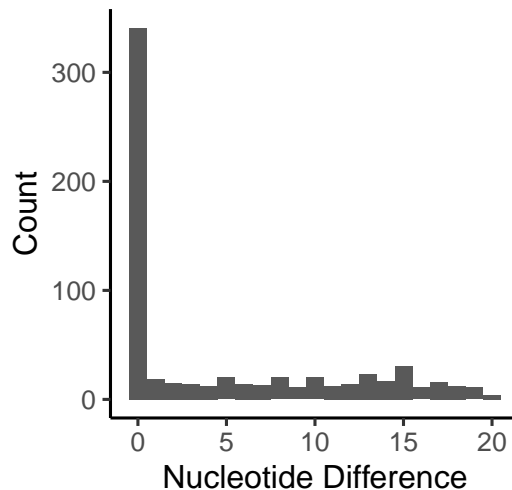
IGHV3-74*01_02

1224 sequences assigned
444 (36.3%) exact matches, in which:
434 unique CDR3
7 unique J



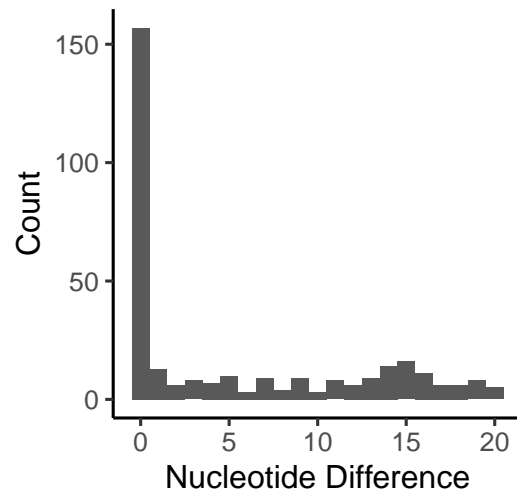
IGHV4-4*02_03

753 sequences assigned
341 (45.3%) exact matches, in which:
338 unique CDR3
6 unique J



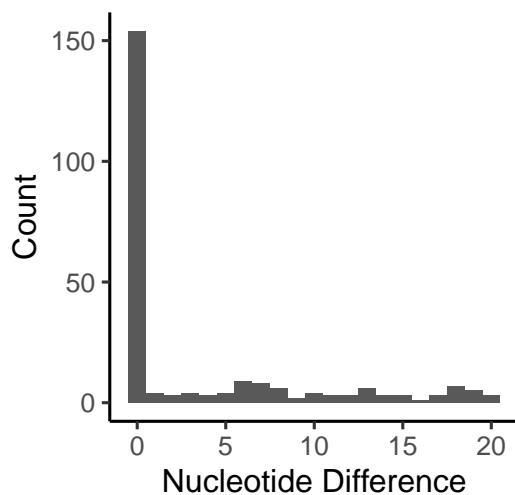
IGHV4-30-4*07

396 sequences assigned
157 (39.6%) exact matches, in which:
154 unique CDR3
6 unique J



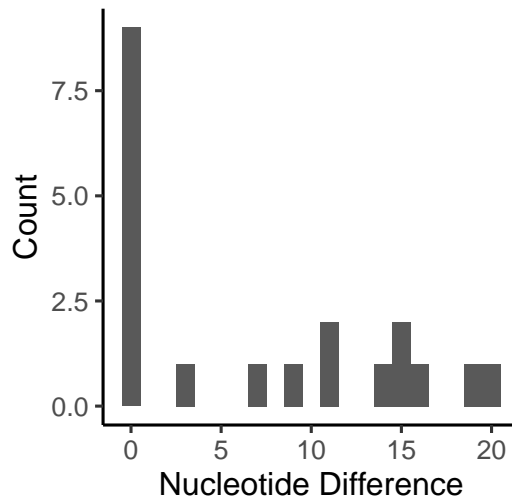
IGHV3-43D*03

256 sequences assigned
154 (60.2%) exact matches, in which:
149 unique CDR3
7 unique J



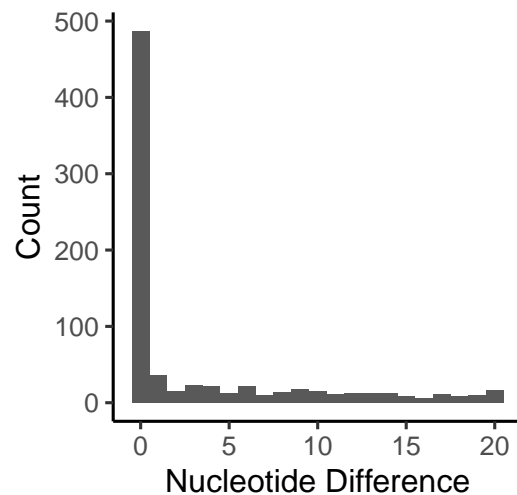
IGHV4-28*01_07

20 sequences assigned
9 (45%) exact matches, in which:
9 unique CDR3
4 unique J



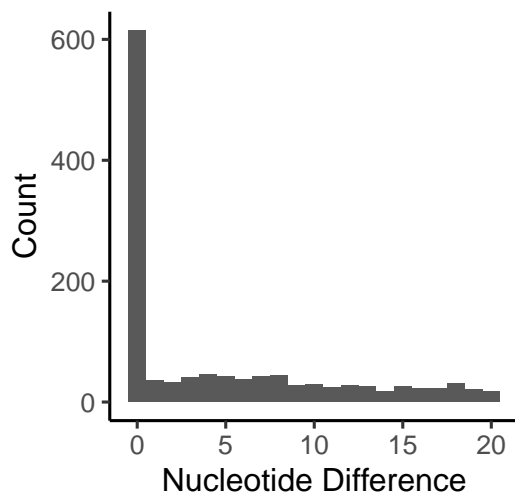
IGHV4-31*02

859 sequences assigned
487 (56.7%) exact matches, in which:
486 unique CDR3
6 unique J



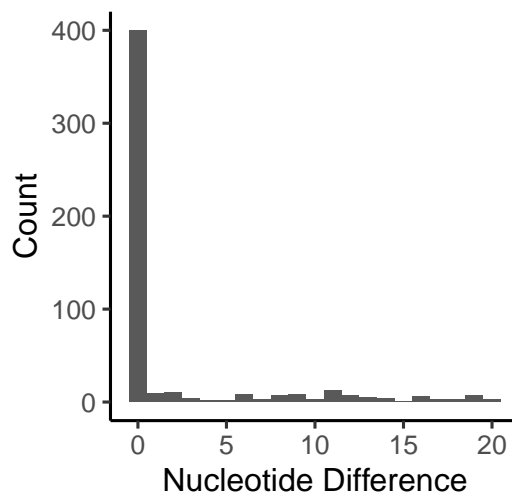
IGHV3-64D*06

1339 sequences assigned
615 (45.9%) exact matches, in which:
608 unique CDR3
7 unique J



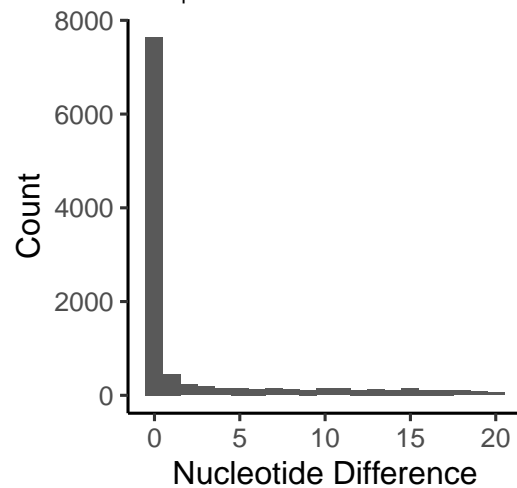
IGHV4-30-2*01

556 sequences assigned
400 (71.9%) exact matches, in which:
396 unique CDR3
6 unique J



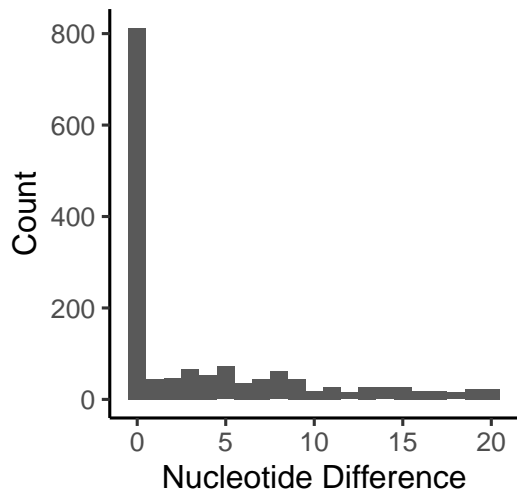
IGHV4-34*01_02

11215 sequences assigned
7643 (68.1%) exact matches, in which:
7499 unique CDR3
7 unique J



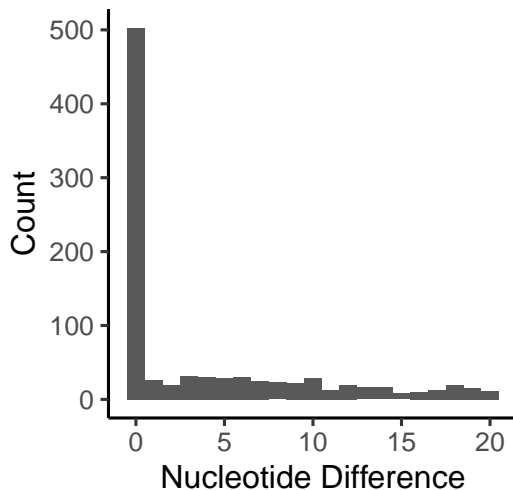
IGHV4–38–2*02

1653 sequences assigned
813 (49.2%) exact matches, in which:
798 unique CDR3
6 unique J



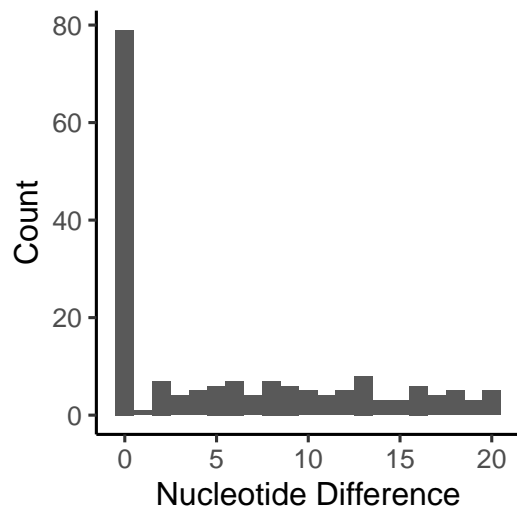
IGHV4–61*01

1008 sequences assigned
503 (49.9%) exact matches, in which:
499 unique CDR3
6 unique J



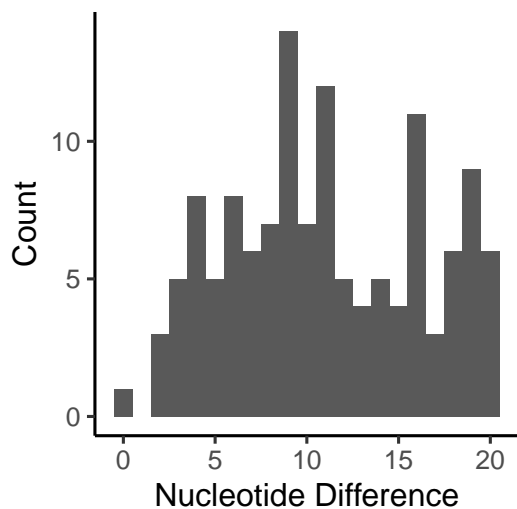
IGHV5–10–1*01_03

204 sequences assigned
79 (38.7%) exact matches, in which:
79 unique CDR3
7 unique J



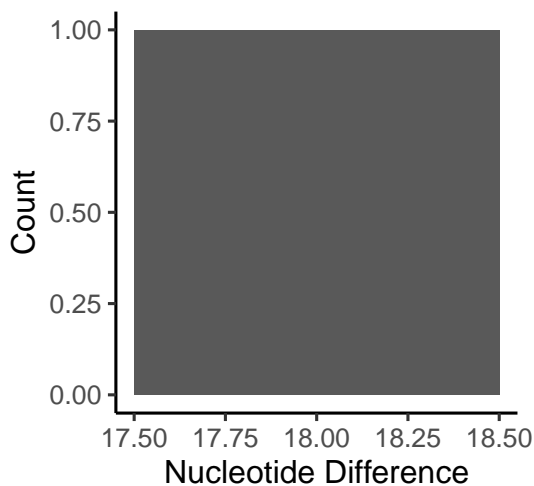
IGHV4–39*02

245 sequences assigned
1 (0.4%) exact matches, in which:
1 unique CDR3
1 unique J



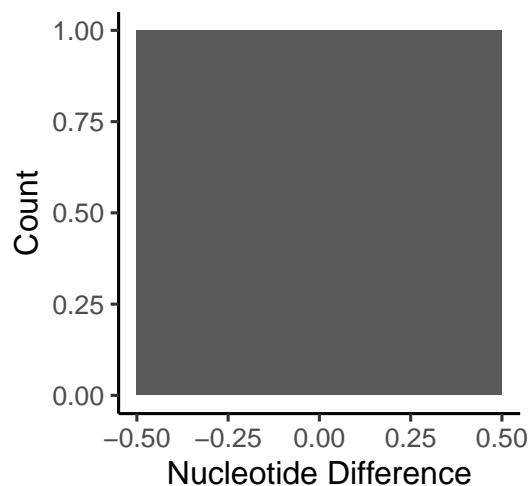
IGHV4/OR15–8*01

2 sequences assigned
No exact matches.



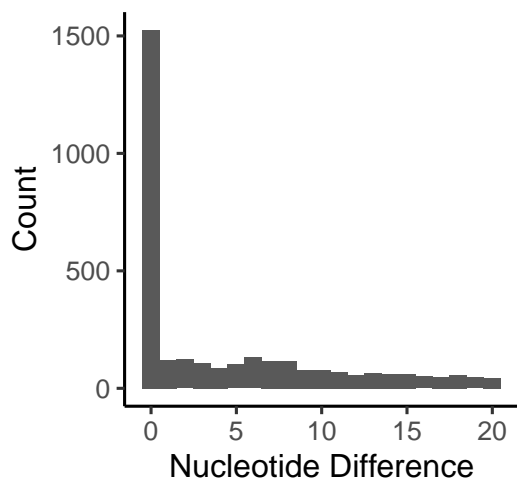
IGHV5–51*01_03

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



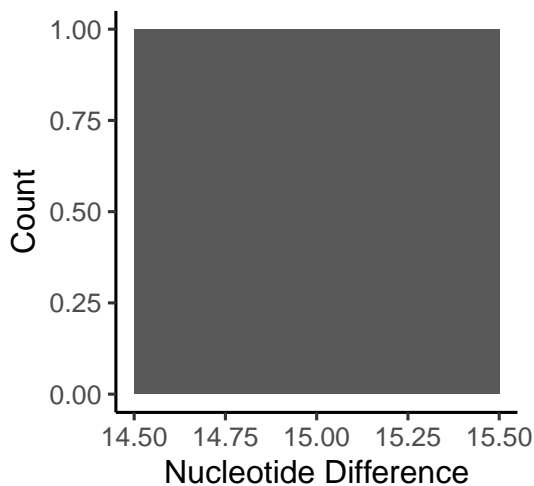
IGHV4–59*08

3548 sequences assigned
1525 (43%) exact matches, in which:
1494 unique CDR3
7 unique J



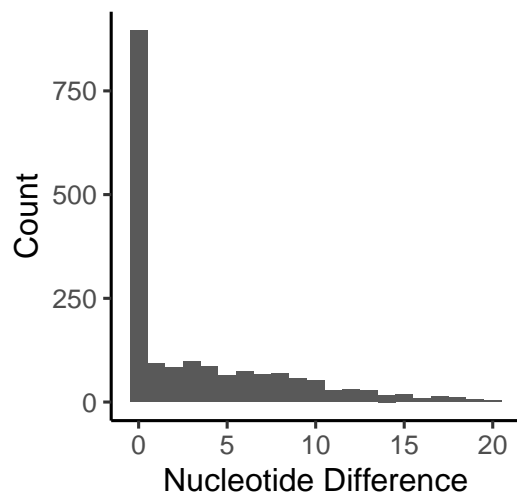
IGHV4/OR15–8*02

7 sequences assigned
No exact matches.



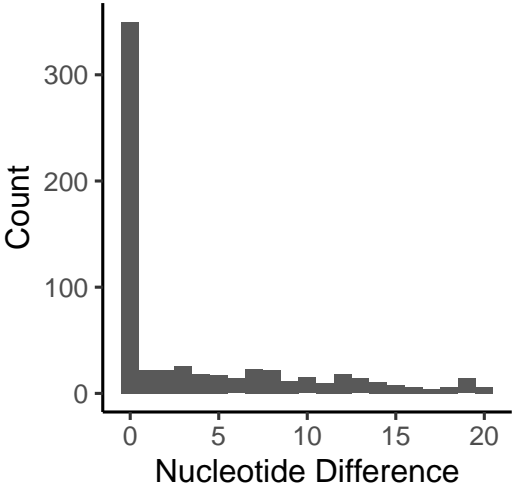
IGHV6–1*01_02

1870 sequences assigned
896 (47.9%) exact matches, in which:
876 unique CDR3
7 unique J

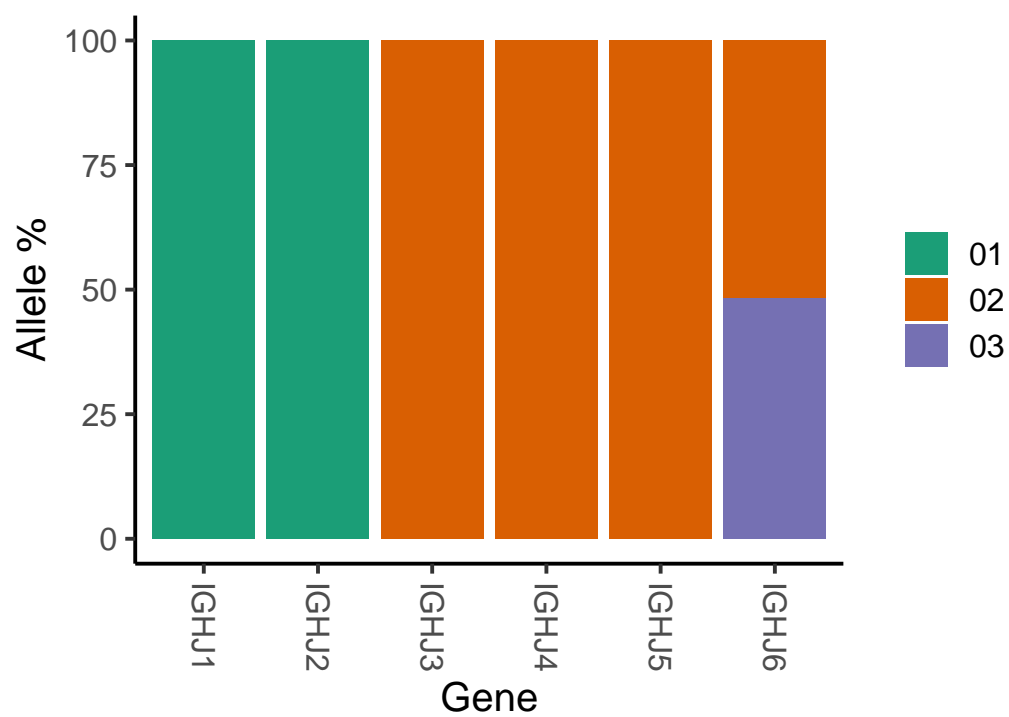


IGHV7-4-1*02

710 sequences assigned
350 (49.3%) exact matches, in which:
350 unique CDR3
7 unique J



Allele Usage



Sequence Count by IGHJ6 allele usage



[illegible]