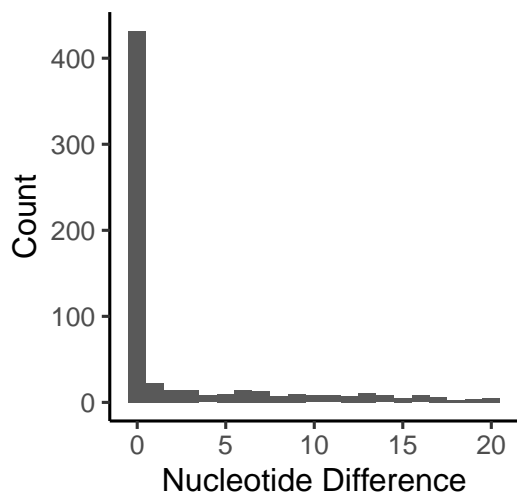


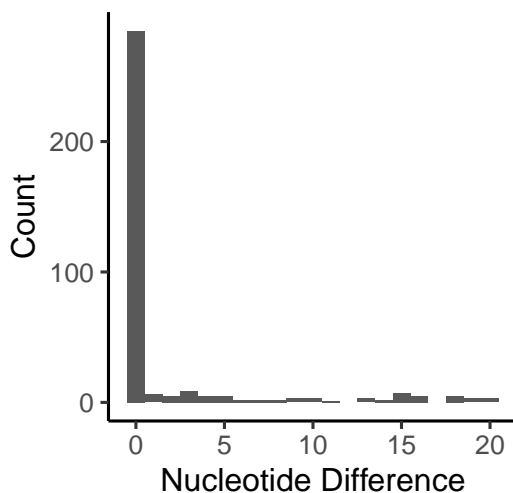
IGHV1-2*04

655 sequences assigned
432 (66%) exact matches, in which:
424 unique CDR3
6 unique J



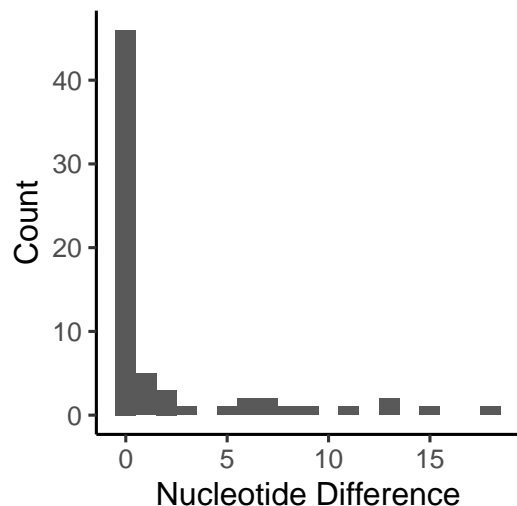
IGHV1-24*01

366 sequences assigned
285 (77.9%) exact matches, in which:
281 unique CDR3
7 unique J



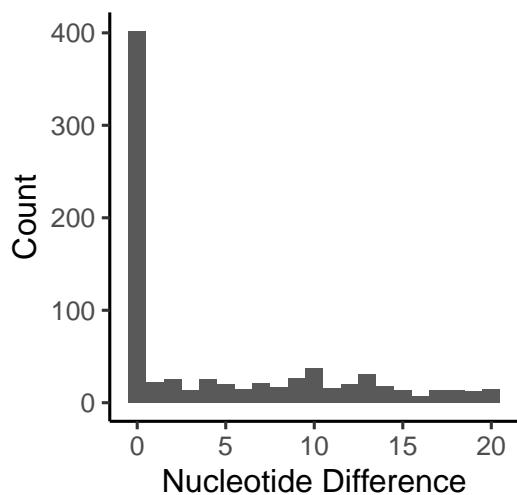
IGHV1-58*02

74 sequences assigned
46 (62.2%) exact matches, in which:
45 unique CDR3
5 unique J



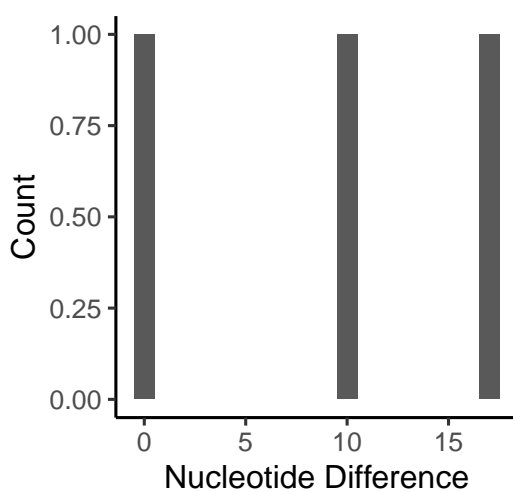
IGHV1-3*01_05

870 sequences assigned
402 (46.2%) exact matches, in which:
397 unique CDR3
7 unique J



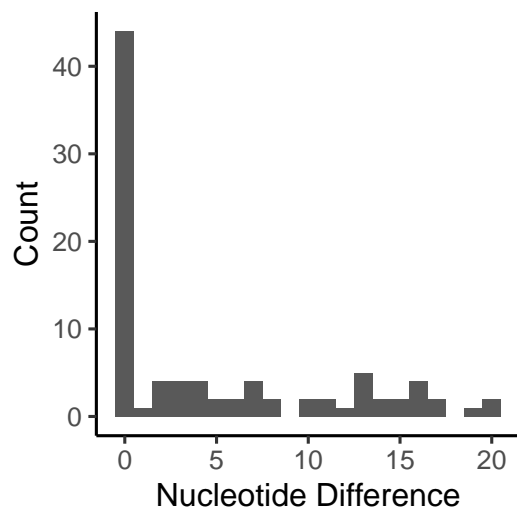
IGHV1-45*02

3 sequences assigned
1 (33.3%) exact matches, in which:
1 unique CDR3
1 unique J



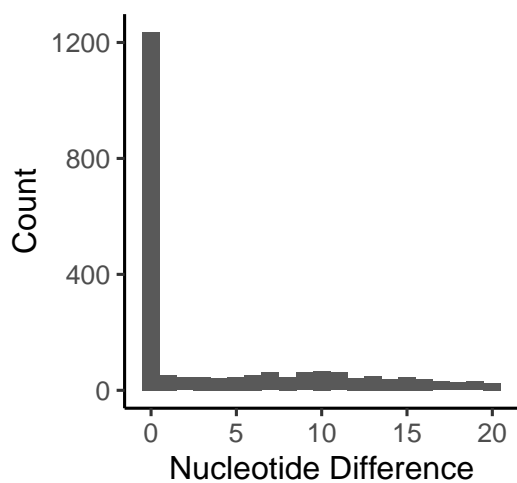
IGHV1-58*01_03

100 sequences assigned
44 (44%) exact matches, in which:
44 unique CDR3
4 unique J



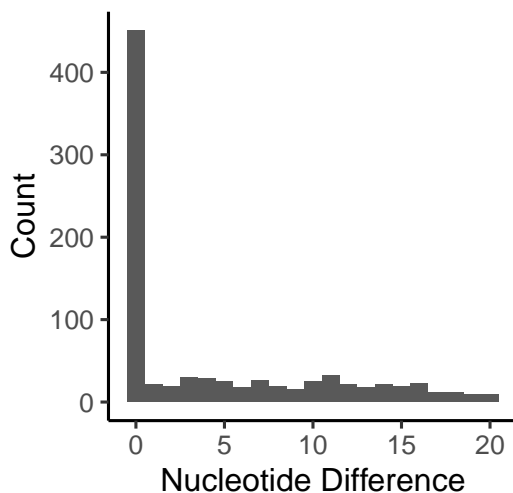
IGHV1-18*01

2315 sequences assigned
1236 (53.4%) exact matches, in which:
1227 unique CDR3
7 unique J



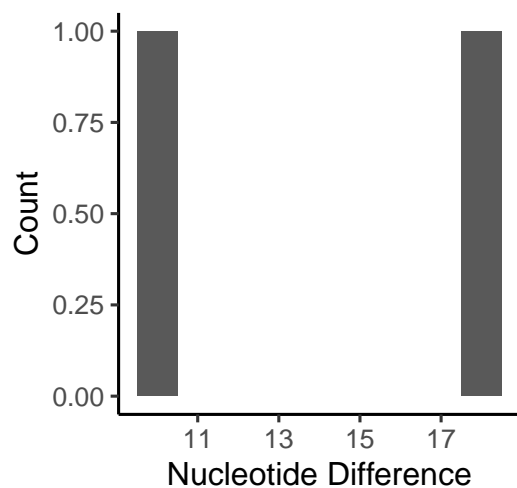
IGHV1-46*01

926 sequences assigned
451 (48.7%) exact matches, in which:
444 unique CDR3
7 unique J



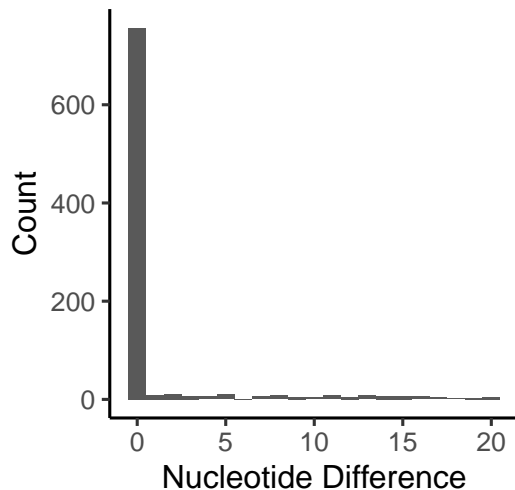
IGHV1-69-2*01

2 sequences assigned
No exact matches.



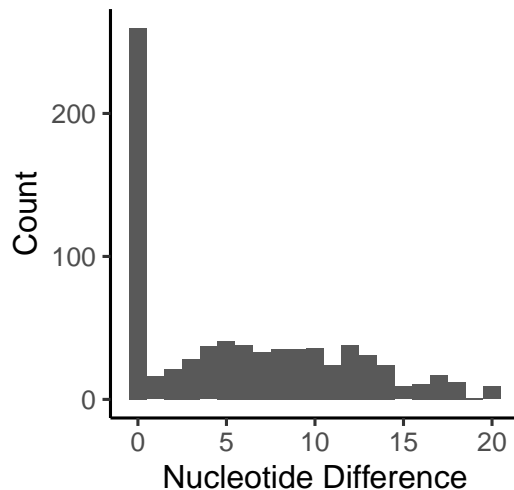
IGHV1-69*01_12_13

928 sequences assigned
757 (81.6%) exact matches, in which:
752 unique CDR3
7 unique J



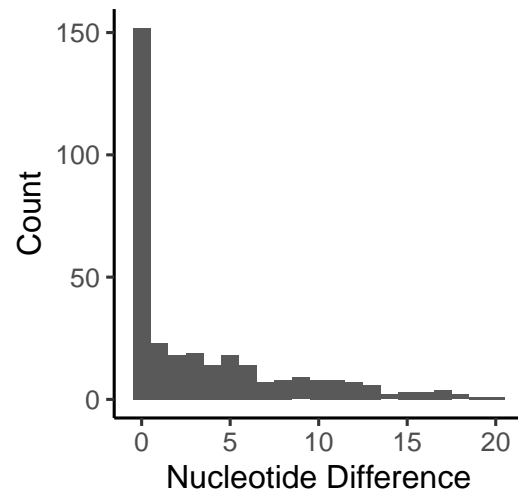
IGHV2-5*02

786 sequences assigned
260 (33.1%) exact matches, in which:
256 unique CDR3
7 unique J



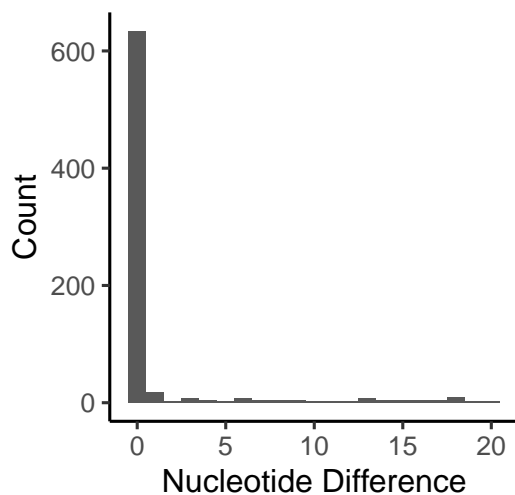
IGHV2-70*11_15

335 sequences assigned
152 (45.4%) exact matches, in which:
149 unique CDR3
5 unique J



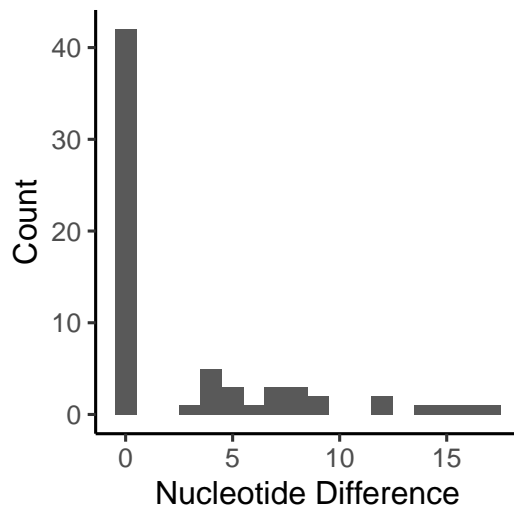
IGHV1-69*04_09

795 sequences assigned
634 (79.7%) exact matches, in which:
630 unique CDR3
7 unique J



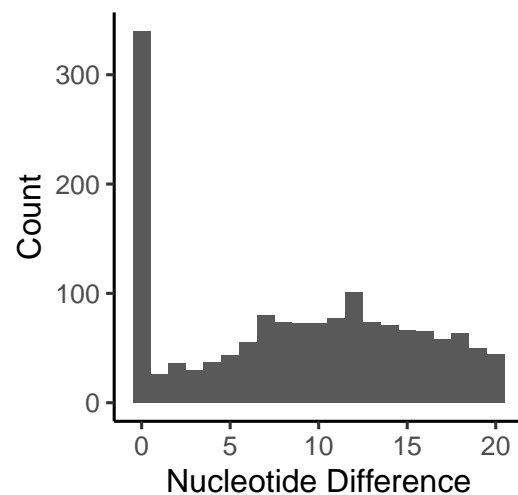
IGHV2-26*01

73 sequences assigned
42 (57.5%) exact matches, in which:
42 unique CDR3
5 unique J



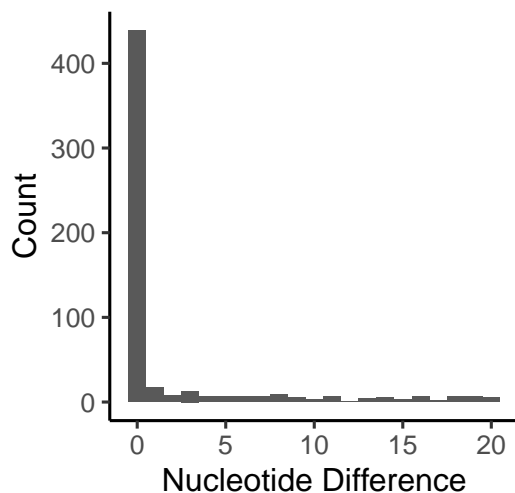
IGHV3-7*03

1765 sequences assigned
340 (19.3%) exact matches, in which:
326 unique CDR3
7 unique J



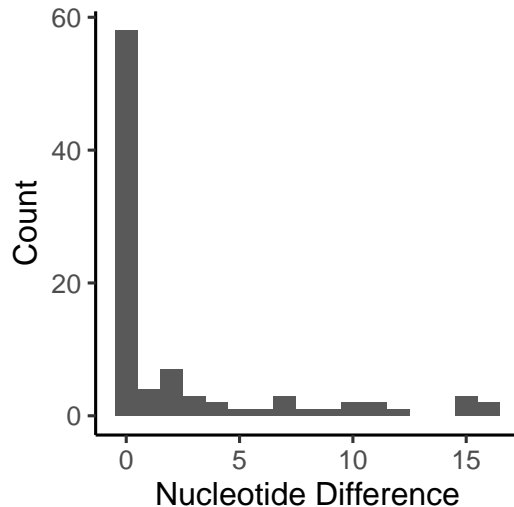
IGHV1-69*06_14

619 sequences assigned
439 (70.9%) exact matches, in which:
435 unique CDR3
6 unique J



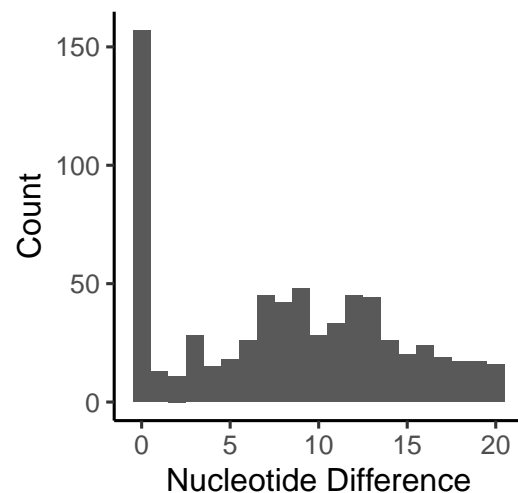
IGHV2-70*01

93 sequences assigned
58 (62.4%) exact matches, in which:
57 unique CDR3
4 unique J



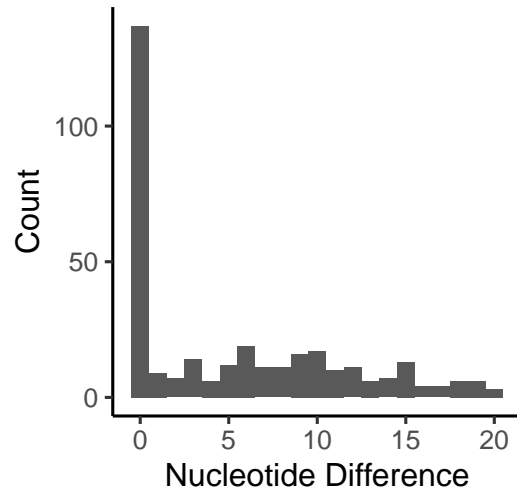
IGHV3-7*04

749 sequences assigned
157 (21%) exact matches, in which:
152 unique CDR3
6 unique J



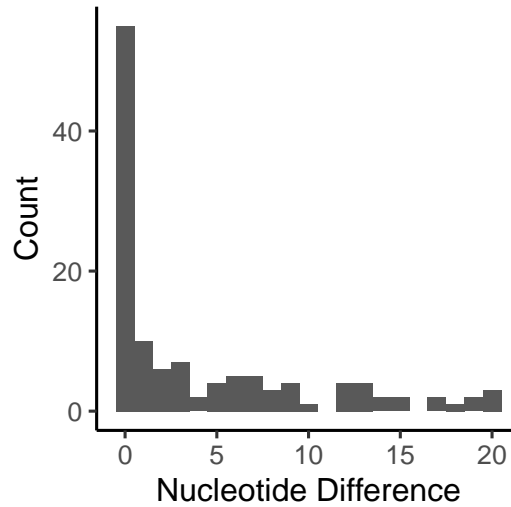
IGHV3-11*06

360 sequences assigned
137 (38.1%) exact matches, in which:
137 unique CDR3
6 unique J



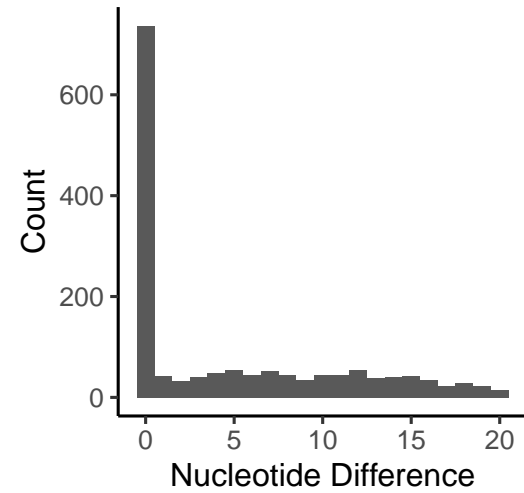
IGHV3-20*03_04

128 sequences assigned
55 (43%) exact matches, in which:
53 unique CDR3
6 unique J



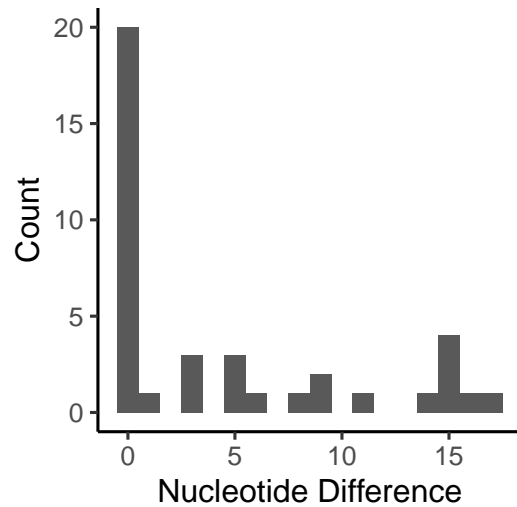
IGHV3-30-3*01

1648 sequences assigned
737 (44.7%) exact matches, in which:
724 unique CDR3
7 unique J



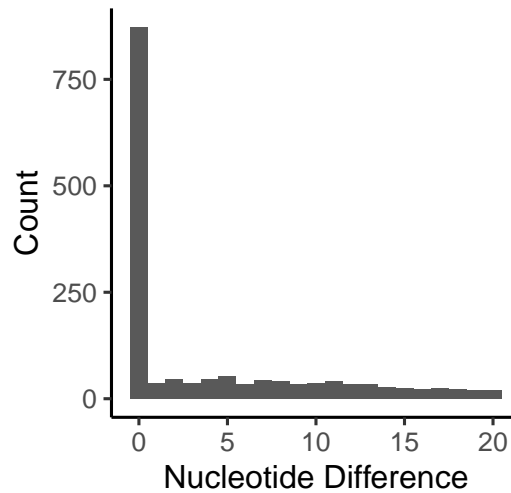
IGHV3-13*05

42 sequences assigned
20 (47.6%) exact matches, in which:
19 unique CDR3
4 unique J



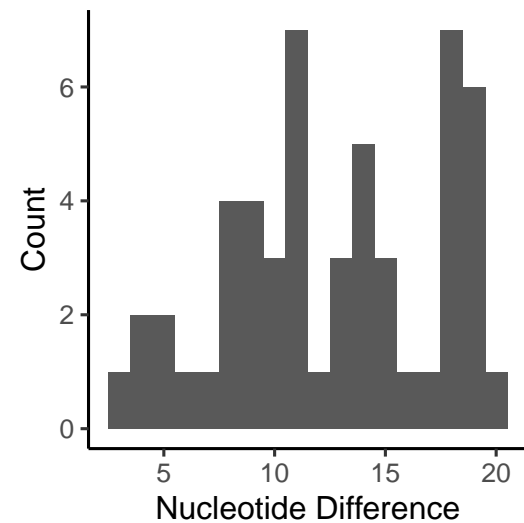
IGHV3-21*01_02

1600 sequences assigned
873 (54.6%) exact matches, in which:
834 unique CDR3
7 unique J



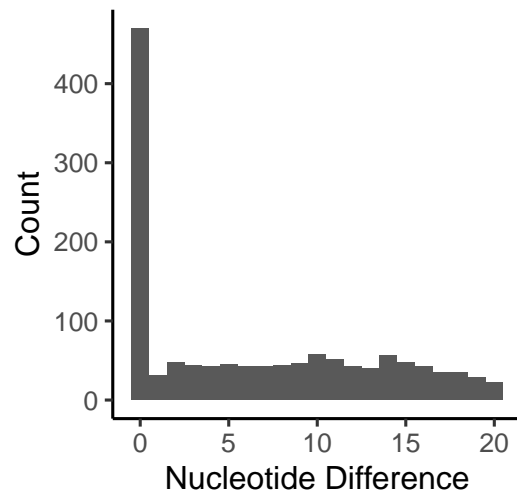
IGHV3-30*04

94 sequences assigned
No exact matches.



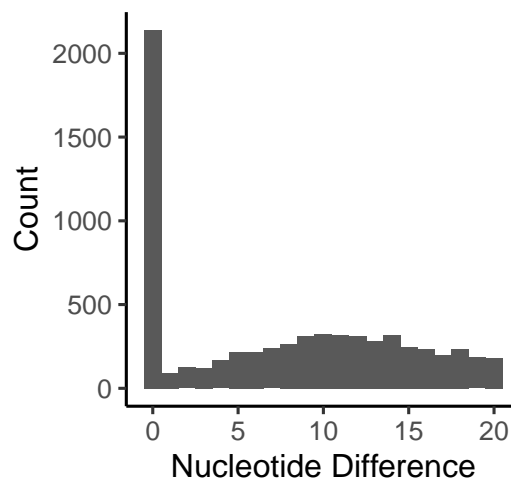
IGHV3-15*07

1481 sequences assigned
470 (31.7%) exact matches, in which:
455 unique CDR3
7 unique J



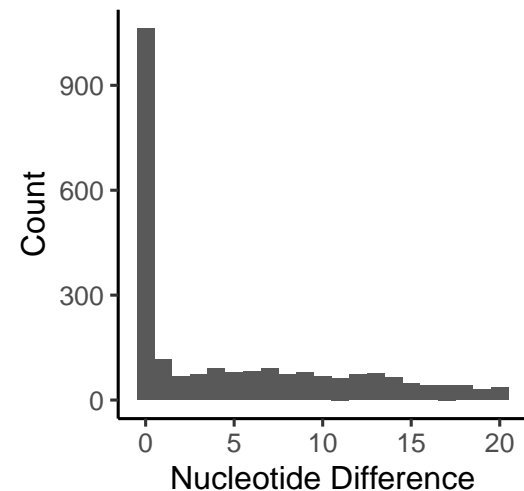
IGHV3-23*01_04

7623 sequences assigned
2139 (28.1%) exact matches, in which:
2073 unique CDR3
7 unique J



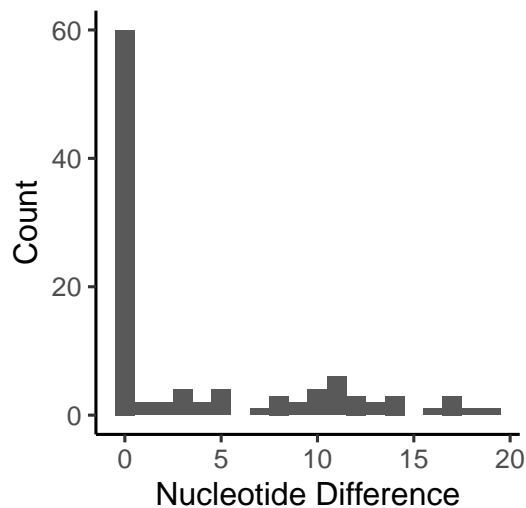
IGHV3-33*01

2611 sequences assigned
1063 (40.7%) exact matches, in which:
1031 unique CDR3
7 unique J



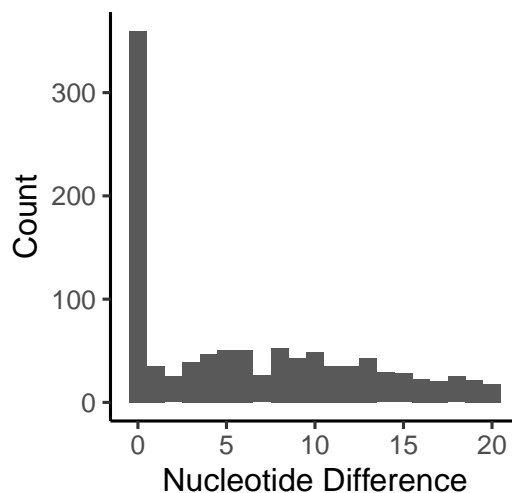
IGHV3-43*01

116 sequences assigned
60 (51.7%) exact matches, in which:
60 unique CDR3
6 unique J



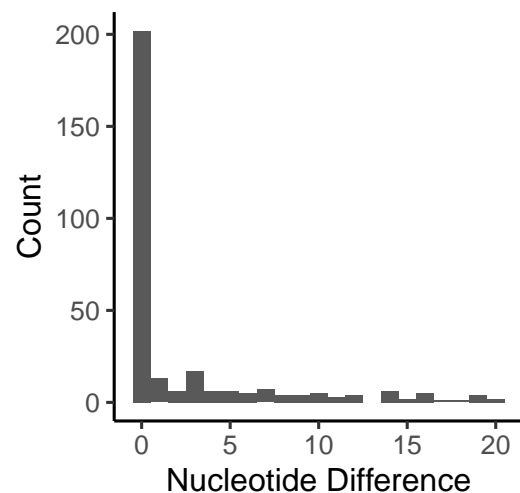
IGHV3-48*03

1160 sequences assigned
360 (31%) exact matches, in which:
347 unique CDR3
6 unique J



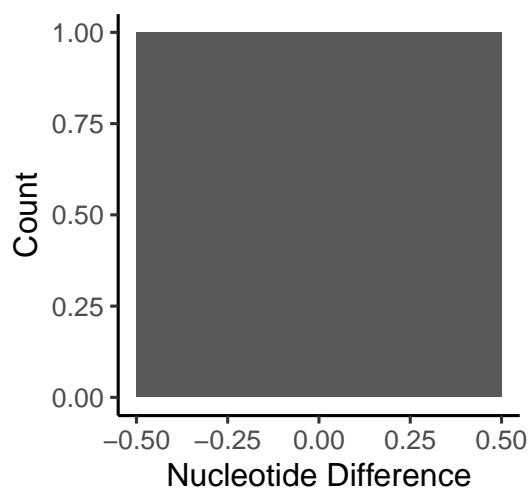
IGHV3-53*04

318 sequences assigned
202 (63.5%) exact matches, in which:
192 unique CDR3
6 unique J



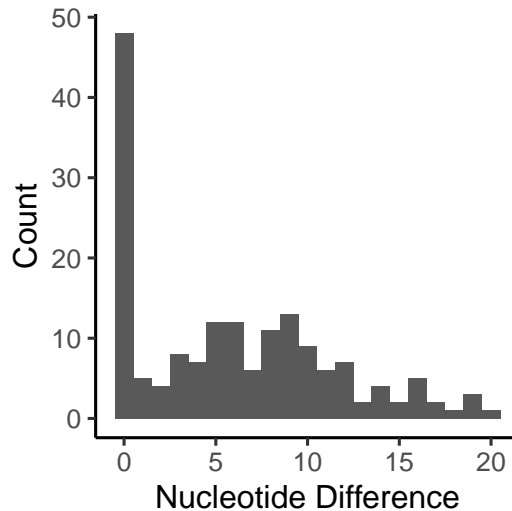
IGHV3-47*02

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



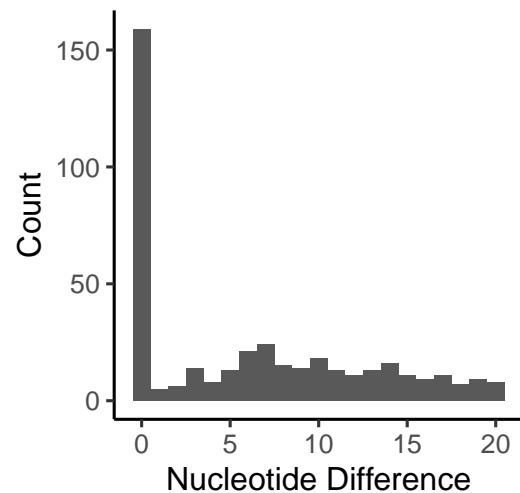
IGHV3-49*04

188 sequences assigned
48 (25.5%) exact matches, in which:
48 unique CDR3
4 unique J



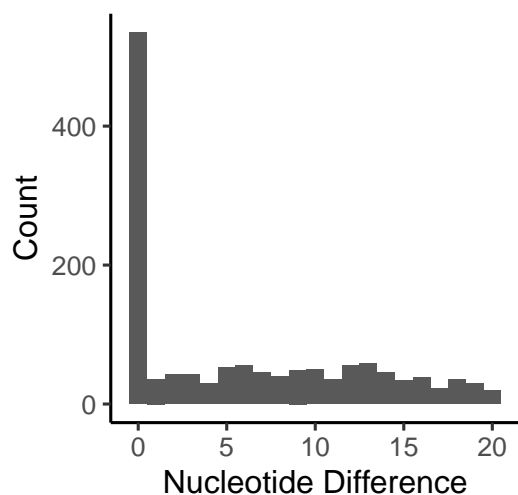
IGHV3-53*01_02

454 sequences assigned
159 (35%) exact matches, in which:
155 unique CDR3
6 unique J



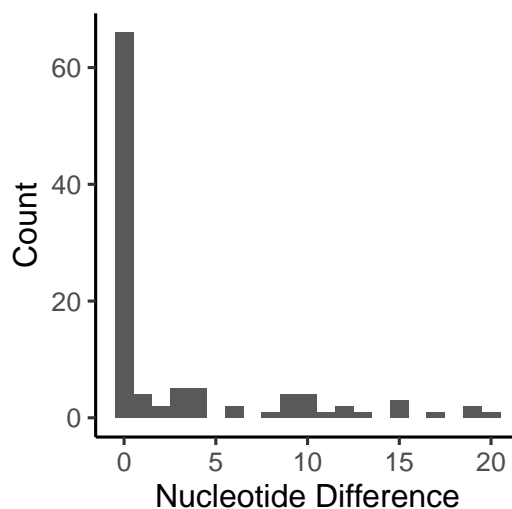
IGHV3-48*02

1444 sequences assigned
535 (37%) exact matches, in which:
511 unique CDR3
6 unique J



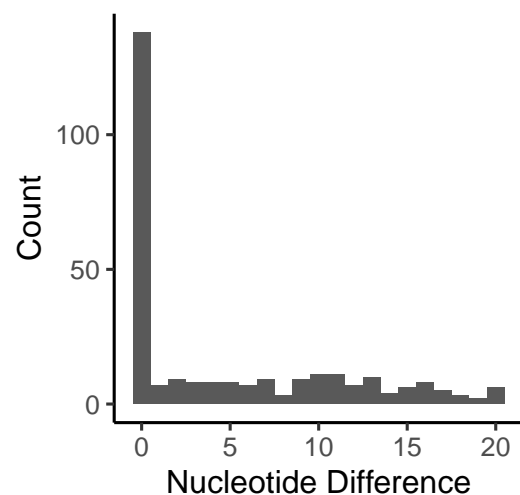
IGHV3-49*03_05

107 sequences assigned
66 (61.7%) exact matches, in which:
66 unique CDR3
4 unique J



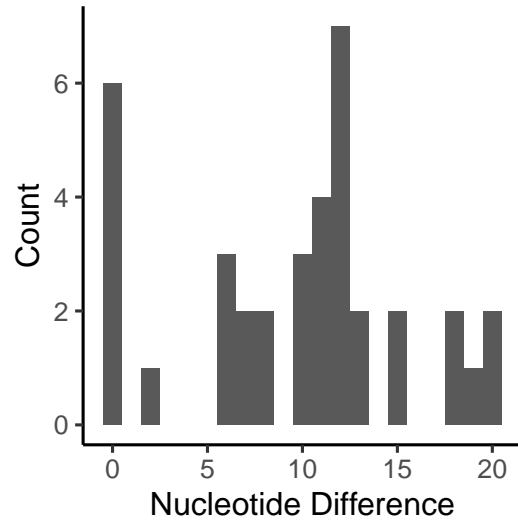
IGHV3-64*01

291 sequences assigned
138 (47.4%) exact matches, in which:
128 unique CDR3
6 unique J



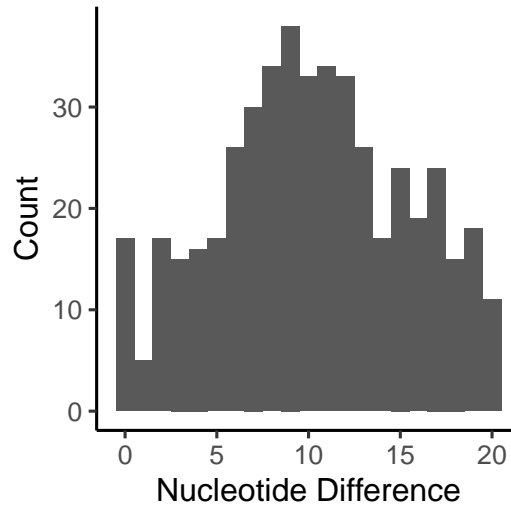
IGHV3-64*02_07

42 sequences assigned
6 (14.3%) exact matches, in which:
6 unique CDR3
3 unique J



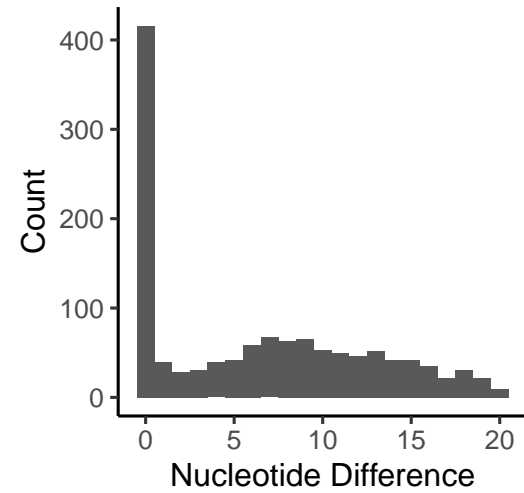
IGHV3-72*01

511 sequences assigned
17 (3.3%) exact matches, in which:
17 unique CDR3
5 unique J



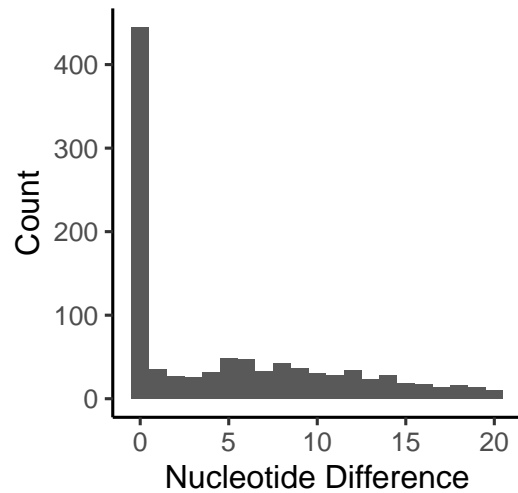
IGHV3-74*01_02

1330 sequences assigned
416 (31.3%) exact matches, in which:
393 unique CDR3
7 unique J



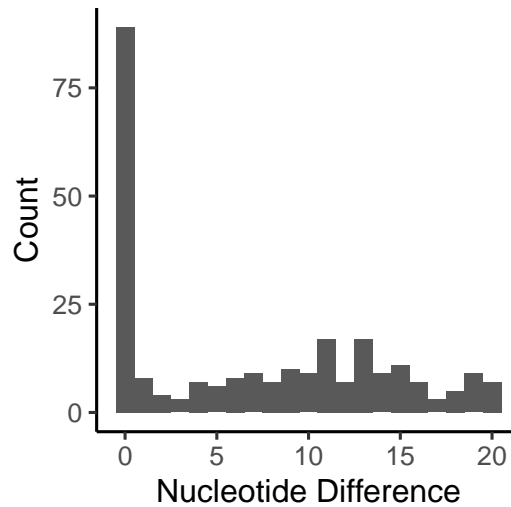
IGHV3-66*01

1081 sequences assigned
445 (41.2%) exact matches, in which:
422 unique CDR3
6 unique J



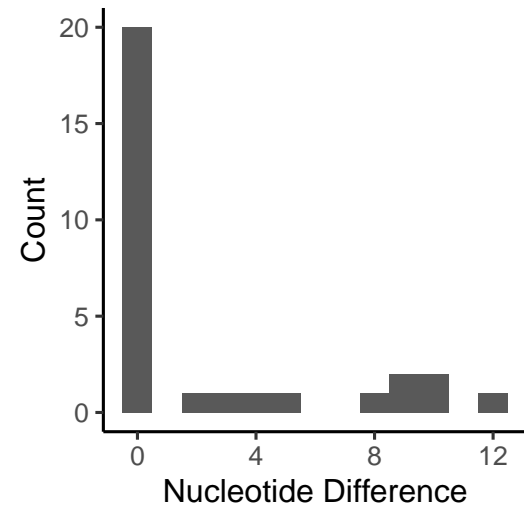
IGHV3-73*01_02

264 sequences assigned
89 (33.7%) exact matches, in which:
88 unique CDR3
5 unique J



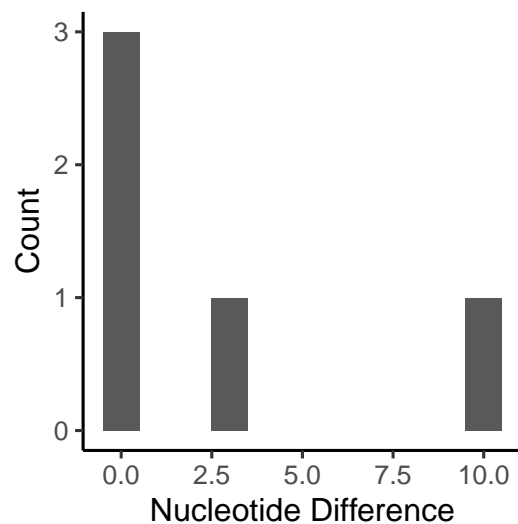
IGHV3-43D*04

37 sequences assigned
20 (54.1%) exact matches, in which:
19 unique CDR3
3 unique J



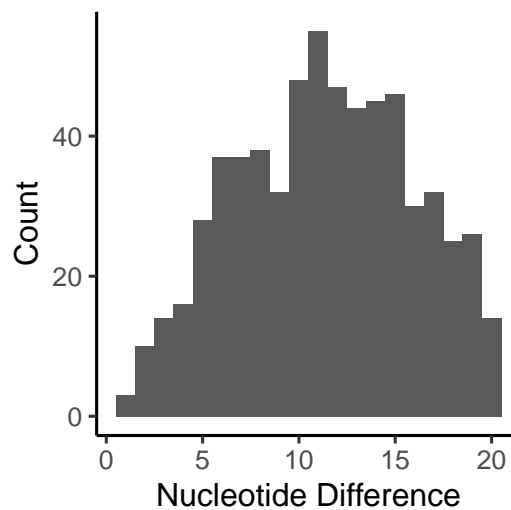
IGHV3-69-1*01

8 sequences assigned
3 (37.5%) exact matches, in which:
3 unique CDR3
2 unique J



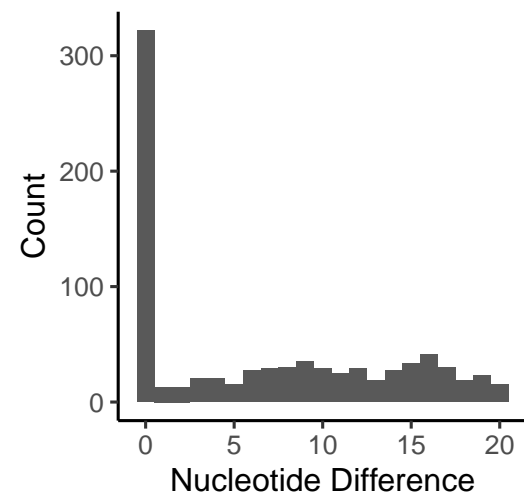
IGHV3-74*03

706 sequences assigned
No exact matches.



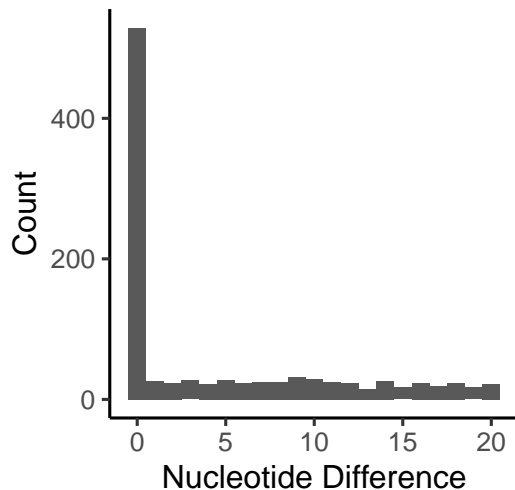
IGHV3-64D*06

896 sequences assigned
322 (35.9%) exact matches, in which:
310 unique CDR3
7 unique J



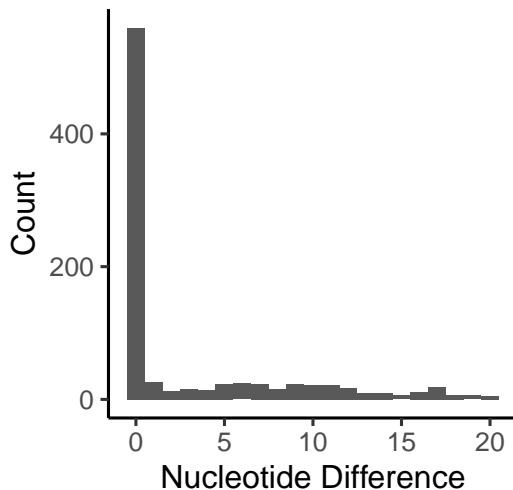
IGHV4-4*02_03

1089 sequences assigned
529 (48.6%) exact matches, in which:
519 unique CDR3
7 unique J



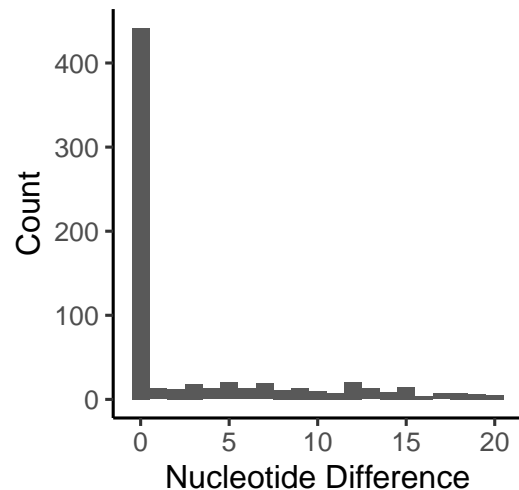
IGHV4-30-2*01

1034 sequences assigned
560 (54.2%) exact matches, in which:
540 unique CDR3
7 unique J



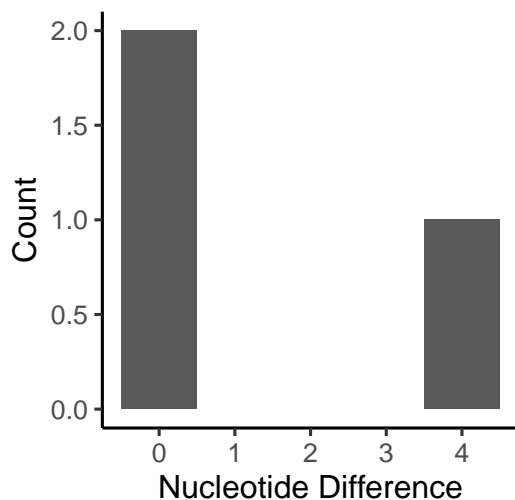
IGHV4-31*02

750 sequences assigned
442 (58.9%) exact matches, in which:
432 unique CDR3
7 unique J



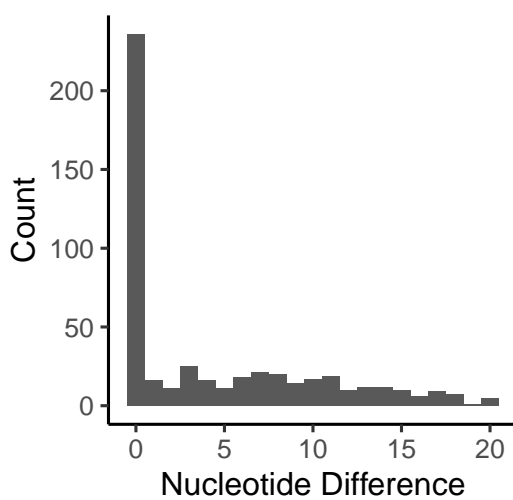
IGHV4-28*03

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



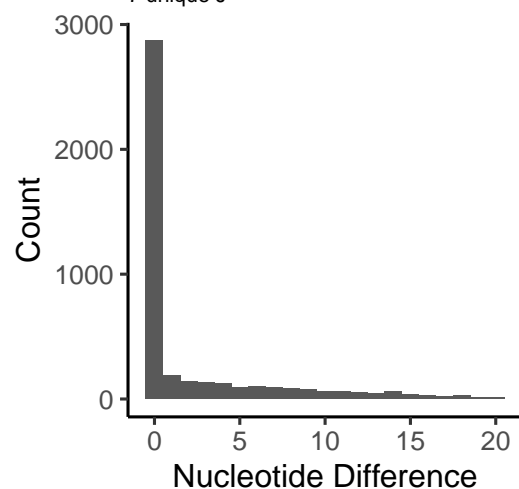
IGHV4-30-4*01

530 sequences assigned
236 (44.5%) exact matches, in which:
229 unique CDR3
5 unique J



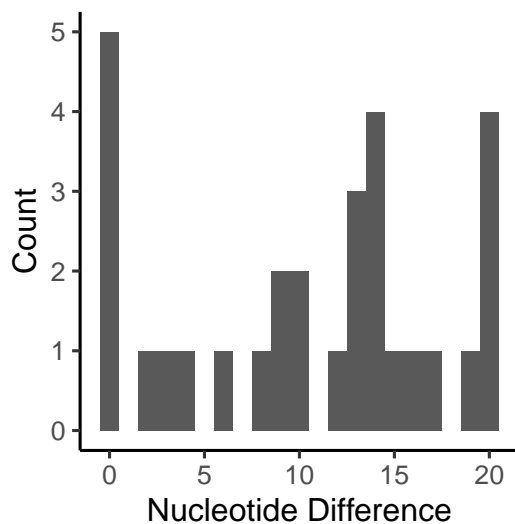
IGHV4-34*01_02

4482 sequences assigned
2870 (64%) exact matches, in which:
2736 unique CDR3
7 unique J



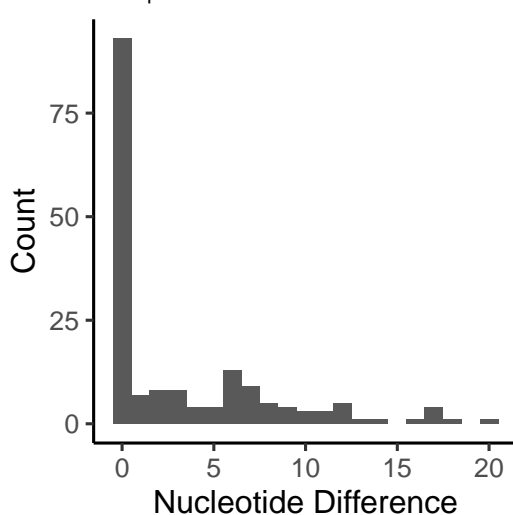
IGHV4-28*01_07

36 sequences assigned
5 (13.9%) exact matches, in which:
4 unique CDR3
4 unique J



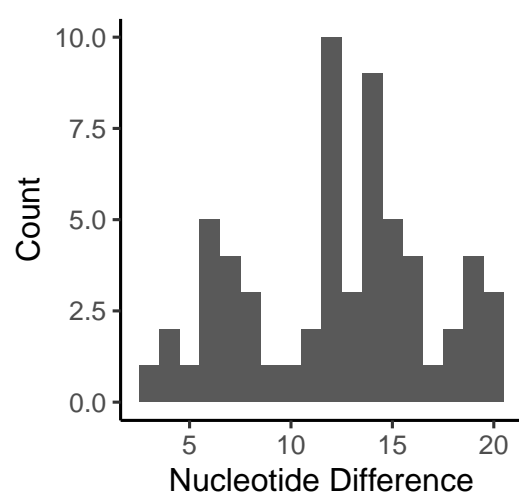
IGHV4-31*01

181 sequences assigned
93 (51.4%) exact matches, in which:
92 unique CDR3
5 unique J



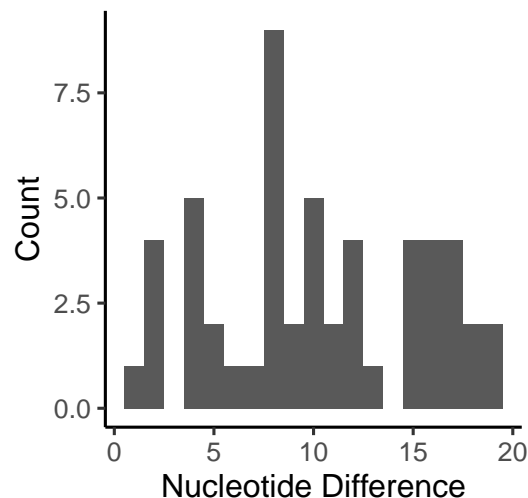
IGHV4-38-2*02

85 sequences assigned
No exact matches.



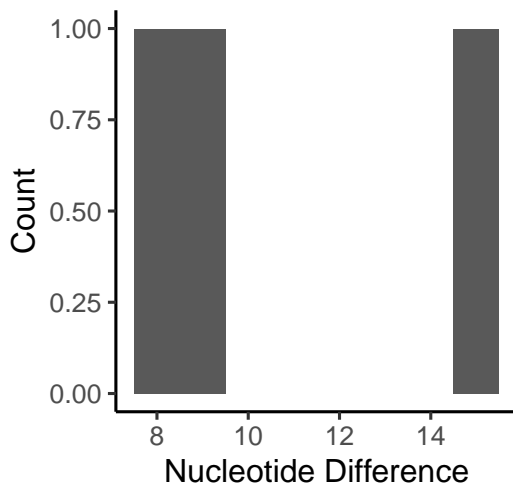
IGHV4-39*02

73 sequences assigned
No exact matches.



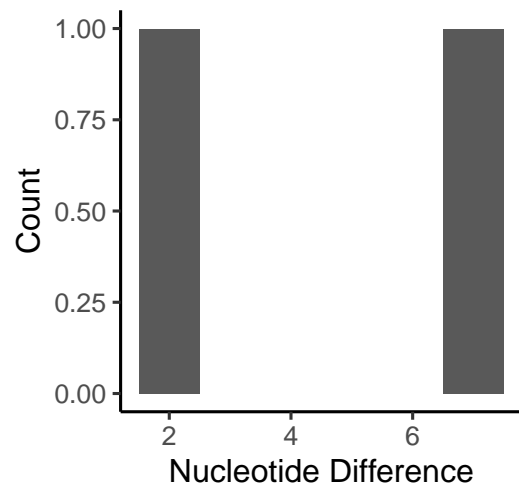
IGHV4/OR15-8*01

3 sequences assigned
No exact matches.



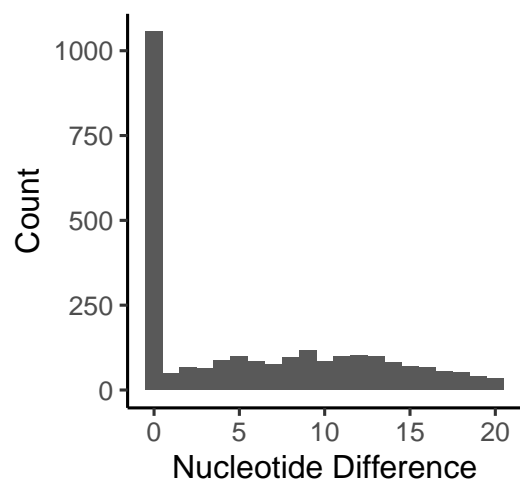
IGHV5-51*06

4 sequences assigned
No exact matches.



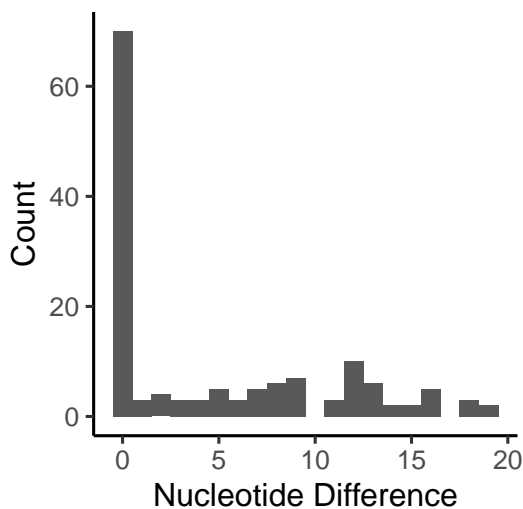
IGHV4-59*08

2845 sequences assigned
1056 (37.1%) exact matches, in which:
1012 unique CDR3
7 unique J



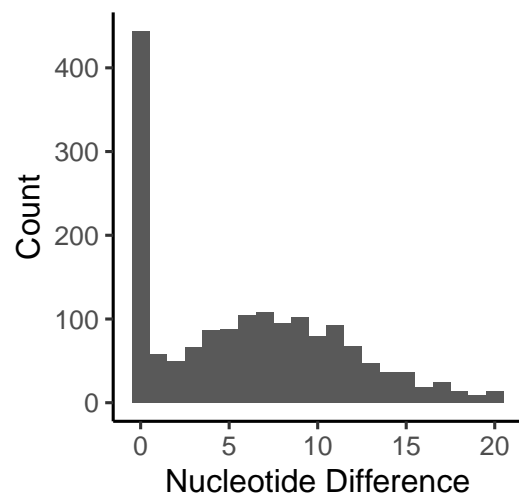
IGHV5-10-1*01_03

154 sequences assigned
70 (45.5%) exact matches, in which:
70 unique CDR3
5 unique J



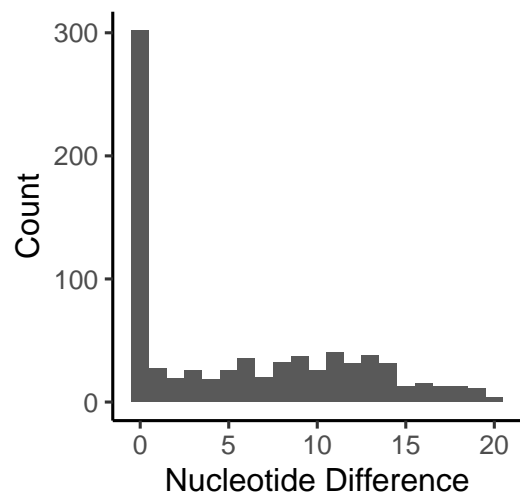
IGHV6-1*01_02

1690 sequences assigned
444 (26.3%) exact matches, in which:
437 unique CDR3
7 unique J



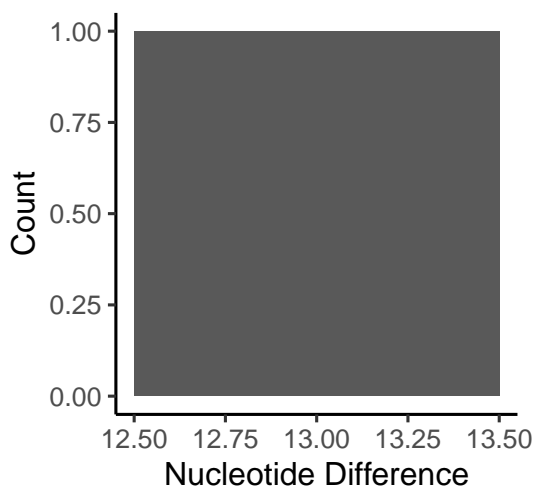
IGHV4-61*01

842 sequences assigned
302 (35.9%) exact matches, in which:
294 unique CDR3
7 unique J



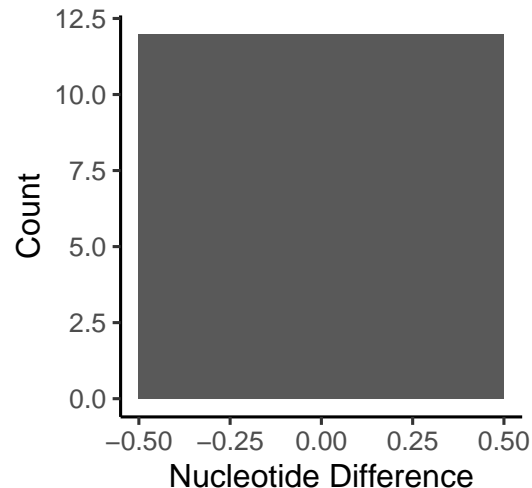
IGHV5-51*04

1 sequences assigned
No exact matches.

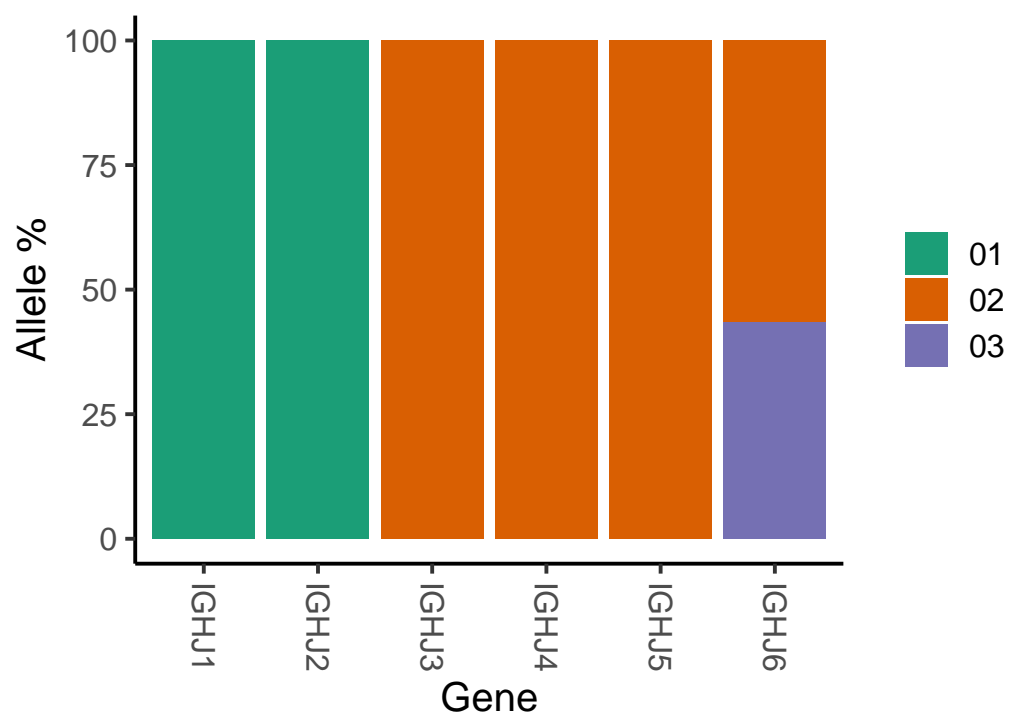


IGHV7-4-1*01

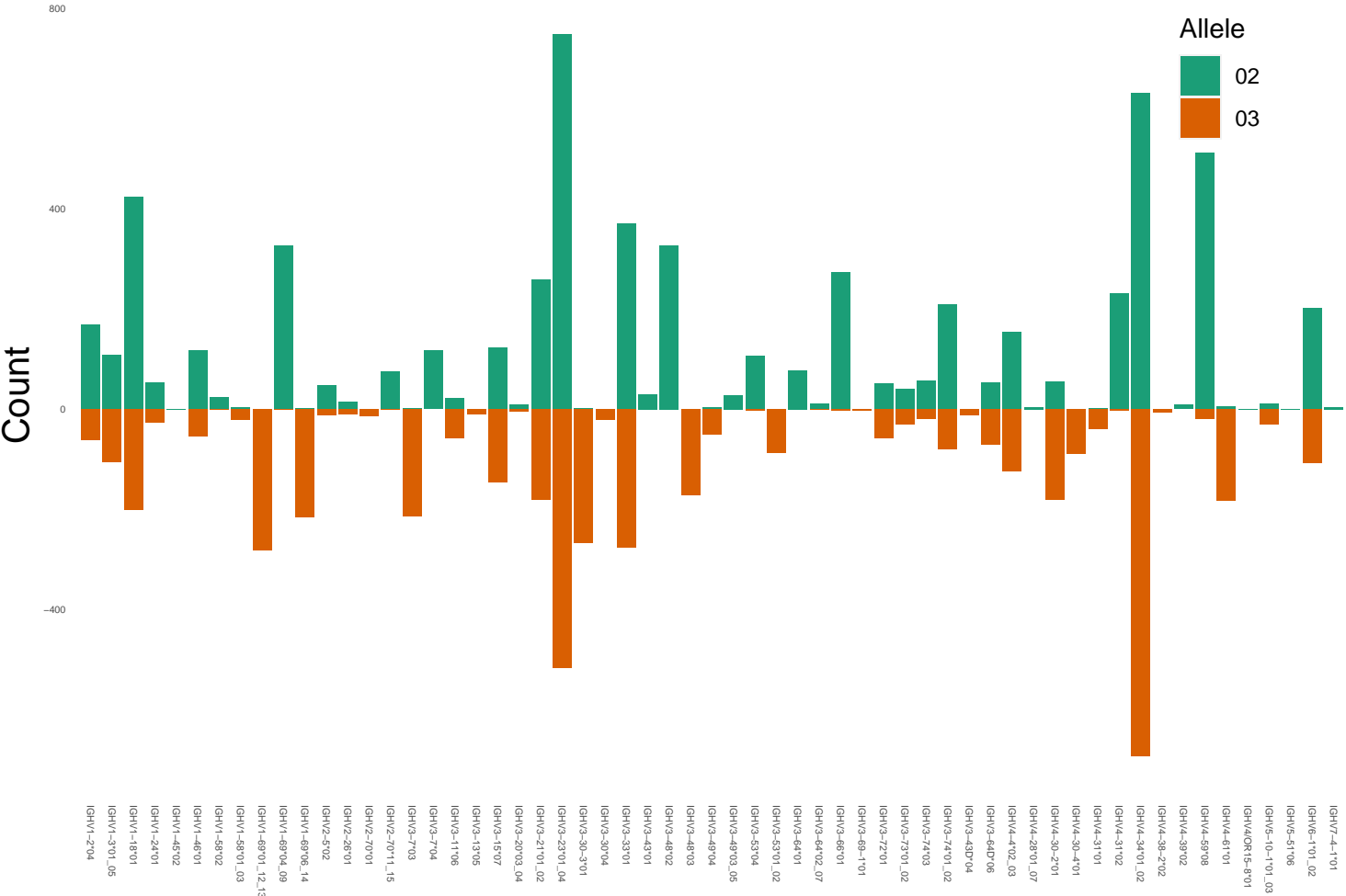
12 sequences assigned
12 (100%) exact matches, in which:
12 unique CDR3
4 unique J



Allele Usage



Sequence Count by IGHJ6 allele usage



Warning – no inferred sequences found.