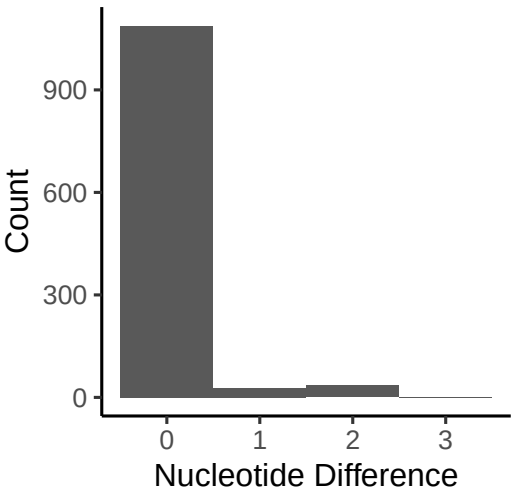
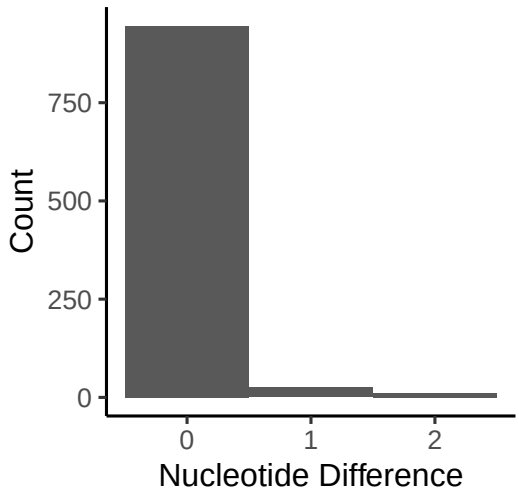
IGHV1−2*02

1153 sequences assigned
1088 (94.4%) exact matches, in which:
1083 unique CDR3
6 unique J



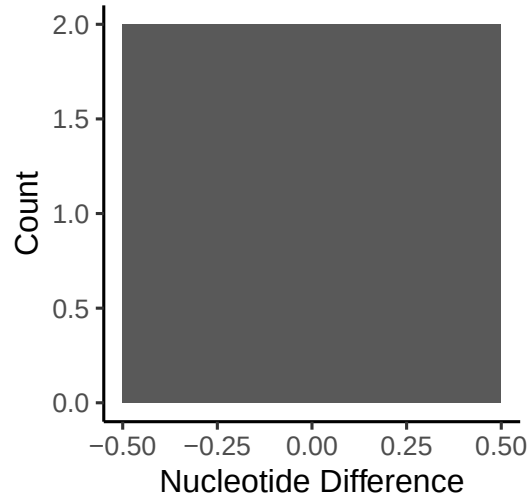
IGHV1−18*01

982 sequences assigned
946 (96.3%) exact matches, in which:
930 unique CDR3
7 unique J



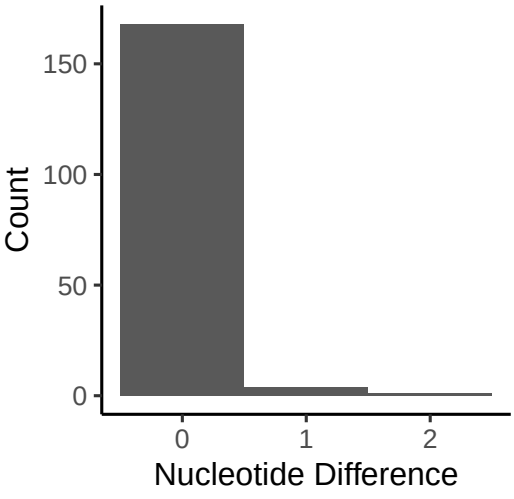
IGHV1−45*02

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



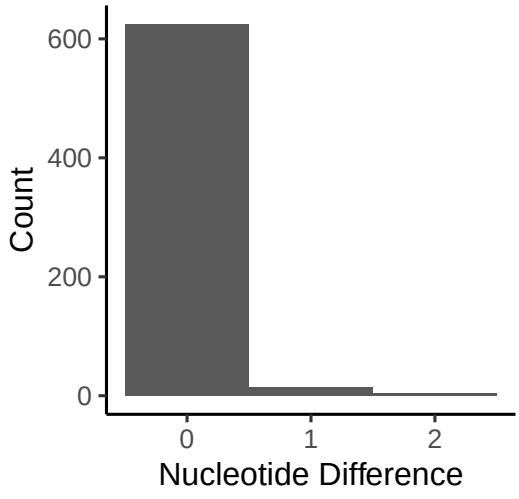
IGHV1−3*01_05

173 sequences assigned
168 (97.1%) exact matches, in which:
168 unique CDR3
6 unique J



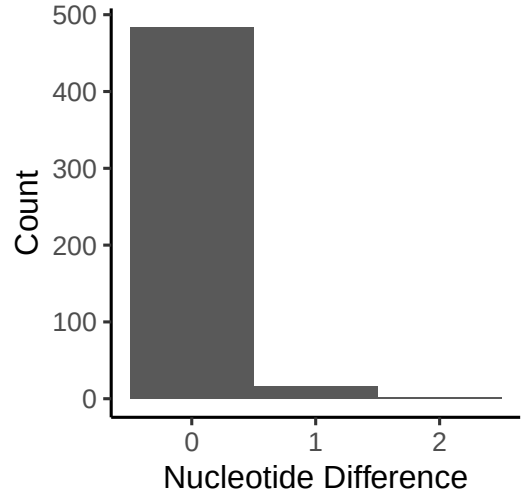
IGHV1−18*04

644 sequences assigned
625 (97%) exact matches, in which:
619 unique CDR3
6 unique J



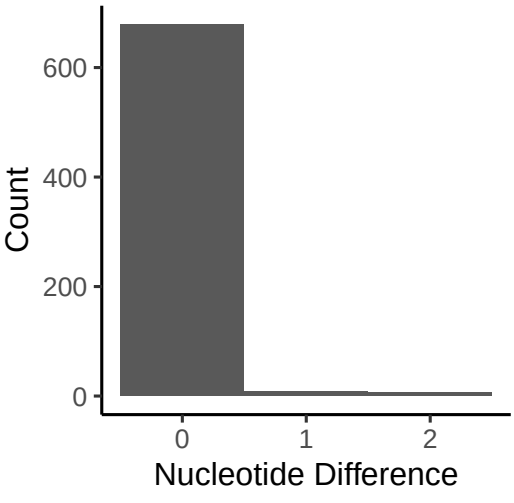
IGHV1−46*01

502 sequences assigned
484 (96.4%) exact matches, in which:
484 unique CDR3
7 unique J



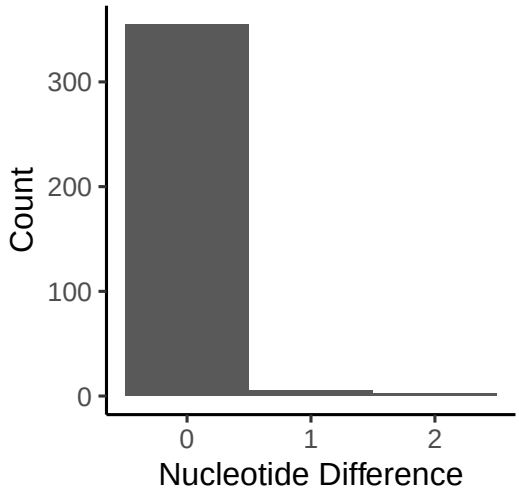
IGHV1−8*01

695 sequences assigned
679 (97.7%) exact matches, in which:
670 unique CDR3
7 unique J



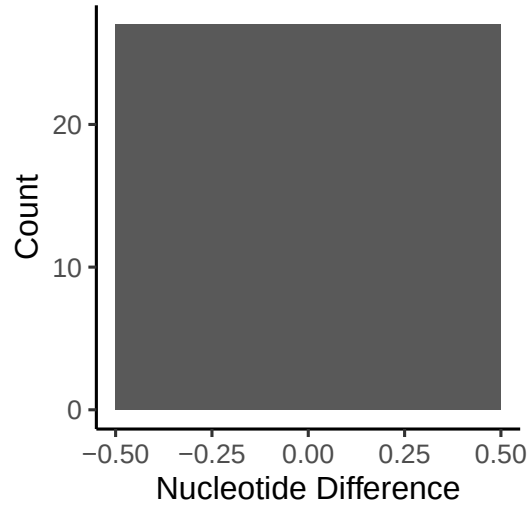
IGHV1−24*01

362 sequences assigned
355 (98.1%) exact matches, in which:
351 unique CDR3
7 unique J



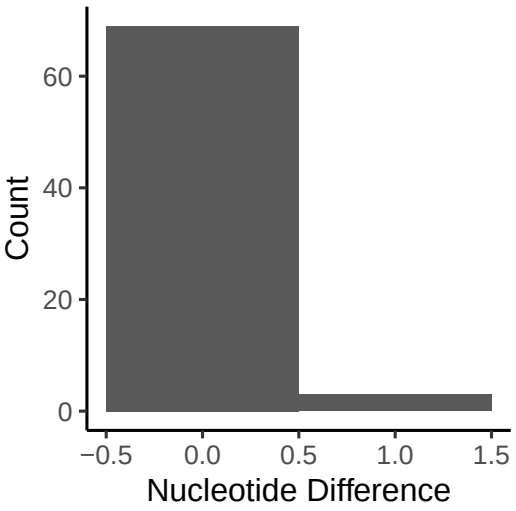
IGHV1−58*02

27 sequences assigned
27 (100%) exact matches, in which:
27 unique CDR3
5 unique J



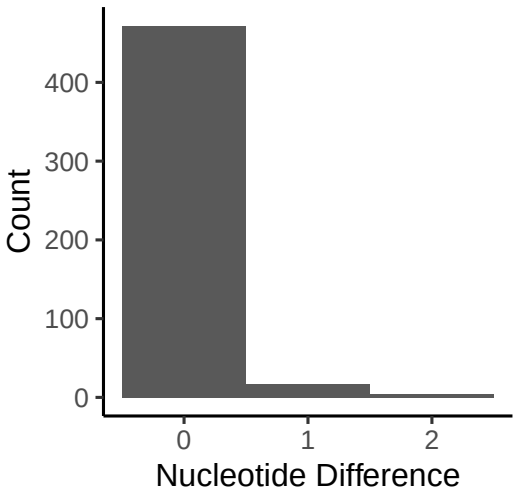
IGHV1−58*01_03

72 sequences assigned
69 (95.8%) exact matches, in which:
69 unique CDR3
5 unique J



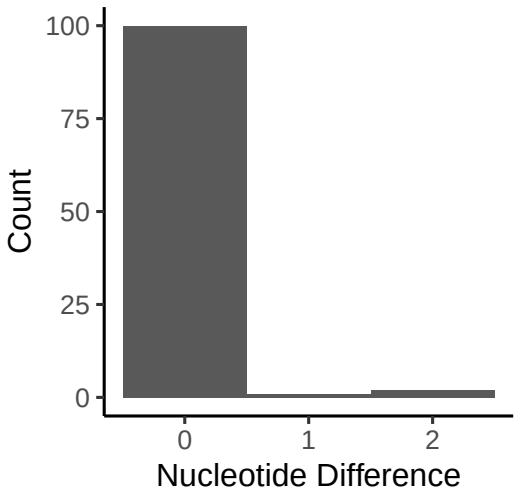
IGHV2−5*01

493 sequences assigned
472 (95.7%) exact matches, in which:
469 unique CDR3
7 unique J



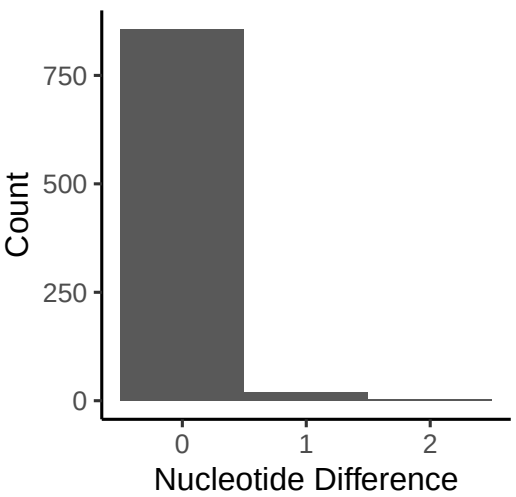
IGHV2−70*01

103 sequences assigned
100 (97.1%) exact matches, in which:
97 unique CDR3
6 unique J



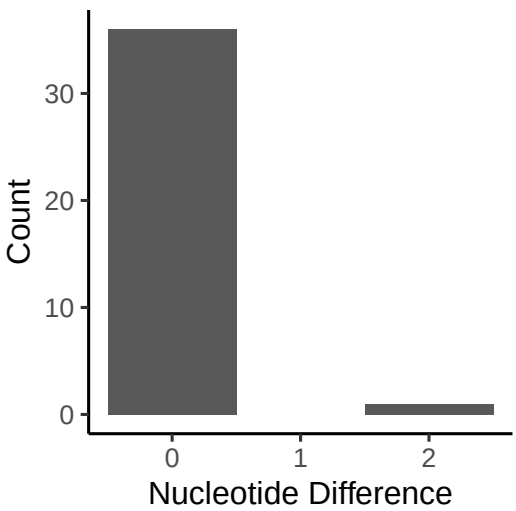
IGHV1−69*01_12_13

880 sequences assigned
857 (97.4%) exact matches, in which:
851 unique CDR3
7 unique J



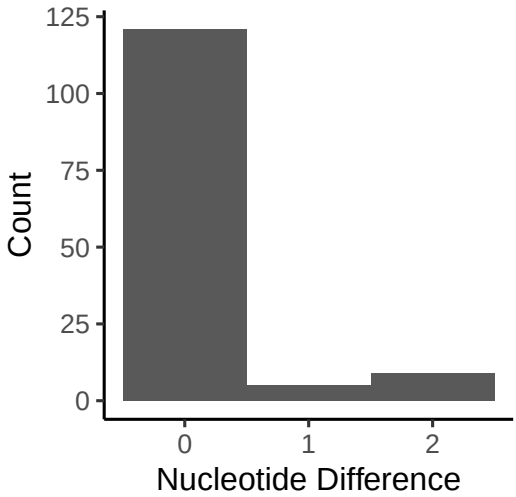
IGHV2−26*01

37 sequences assigned
36 (97.3%) exact matches, in which:
36 unique CDR3
5 unique J



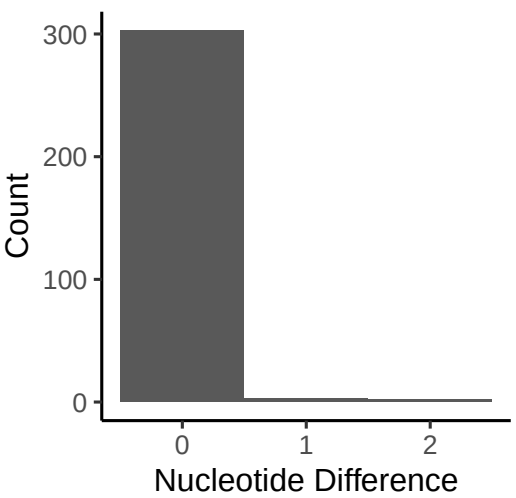
IGHV2−70*11_15

135 sequences assigned
121 (89.6%) exact matches, in which:
118 unique CDR3
4 unique J



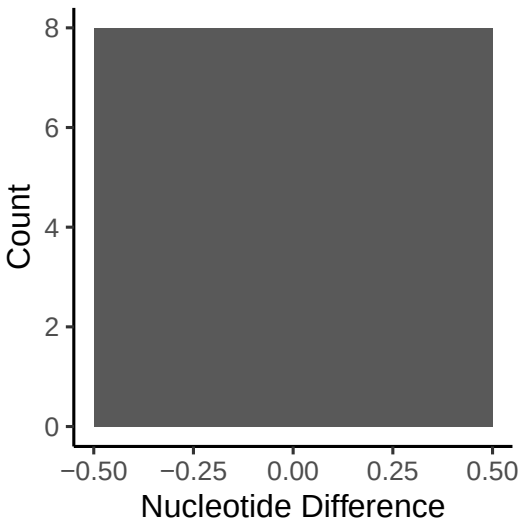
IGHV1−69*04_09

308 sequences assigned
303 (98.4%) exact matches, in which:
301 unique CDR3
6 unique J



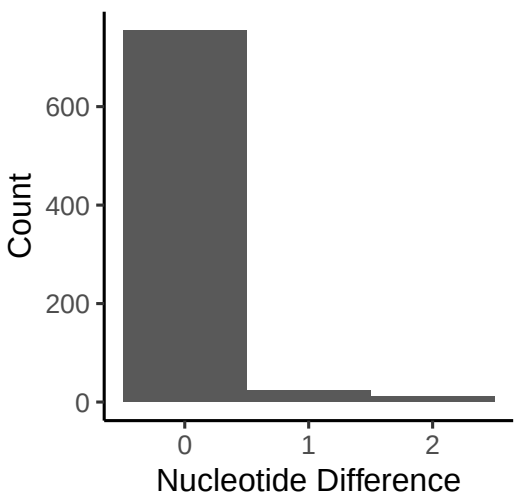
IGHV2−26*04

8 sequences assigned
8 (100%) exact matches, in which:
8 unique CDR3
5 unique J



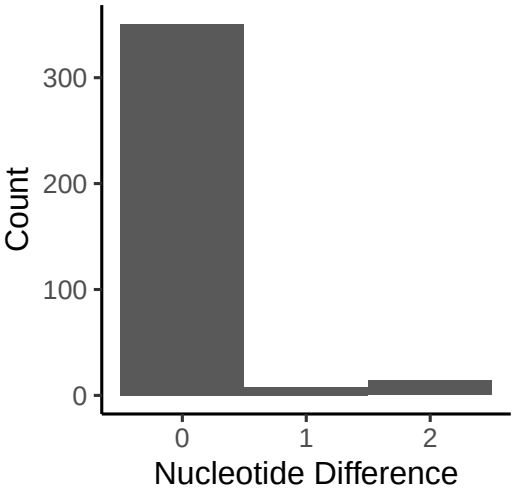
IGHV3−7*01

790 sequences assigned
755 (95.6%) exact matches, in which:
743 unique CDR3
7 unique J



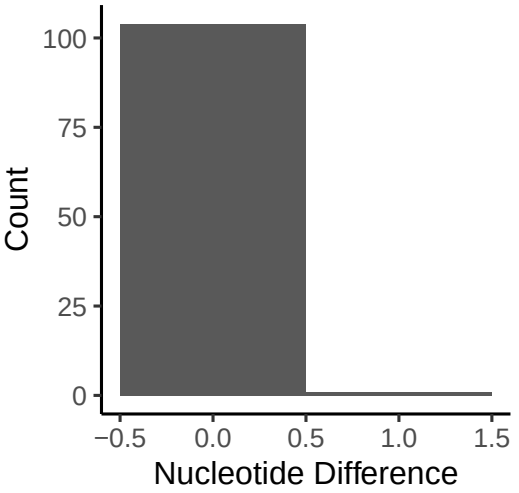
IGHV3−9*01

373 sequences assigned
351 (94.1%) exact matches, in which:
347 unique CDR3
6 unique J



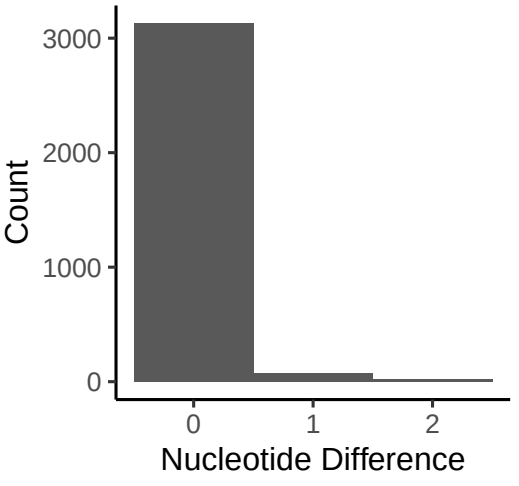
IGHV3−13*04

105 sequences assigned
104 (99%) exact matches, in which:
103 unique CDR3
5 unique J



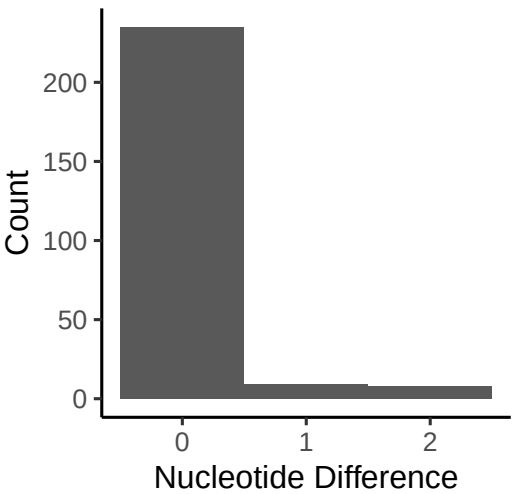
IGHV3−23*01_04

3226 sequences assigned
3129 (97%) exact matches, in which:
3041 unique CDR3
7 unique J



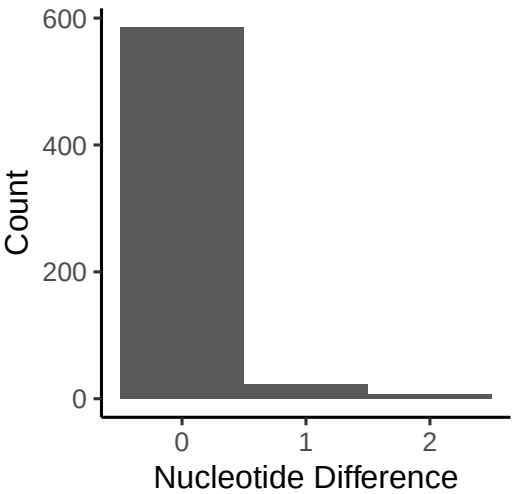
IGHV3−11*01

252 sequences assigned
235 (93.3%) exact matches, in which:
232 unique CDR3
6 unique J



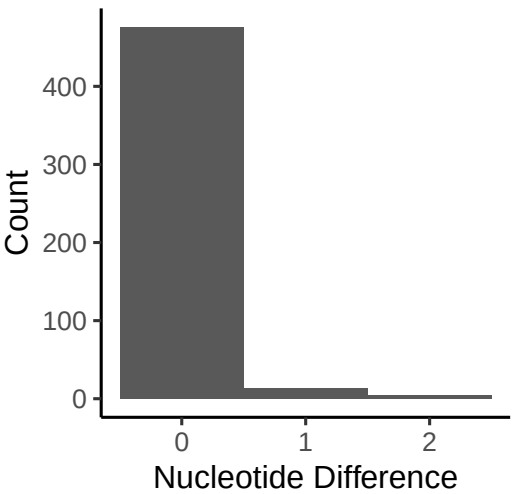
IGHV3−15*01_02

616 sequences assigned
586 (95.1%) exact matches, in which:
581 unique CDR3
7 unique J



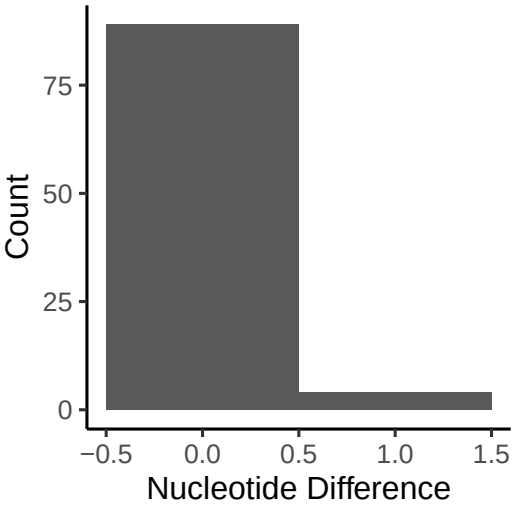
IGHV3−30−3*01

494 sequences assigned
476 (96.4%) exact matches, in which:
469 unique CDR3
6 unique J



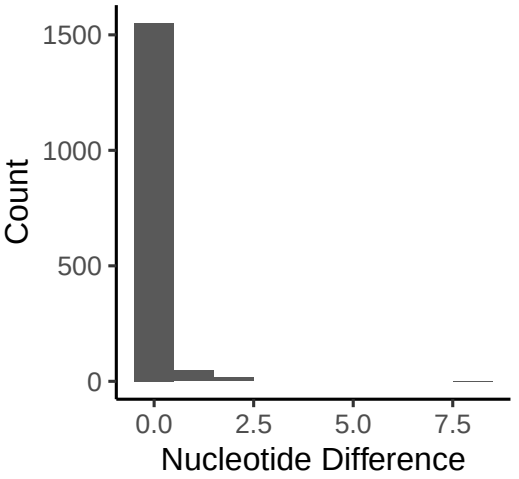
IGHV3−13*01

93 sequences assigned
89 (95.7%) exact matches, in which:
88 unique CDR3
5 unique J



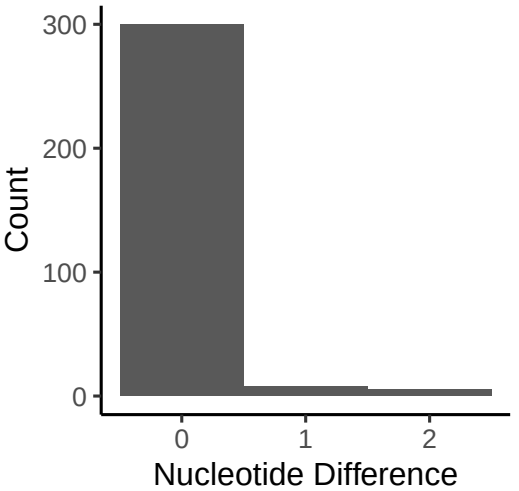
IGHV3−21*01_02

1615 sequences assigned
1551 (96%) exact matches, in which:
1500 unique CDR3
7 unique J



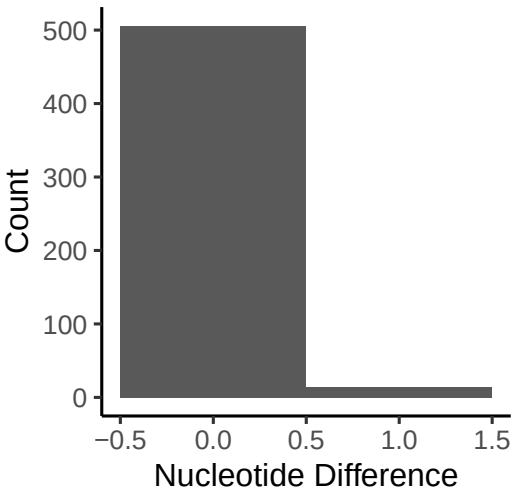
IGHV3−33*01

313 sequences assigned
300 (95.8%) exact matches, in which:
300 unique CDR3
7 unique J



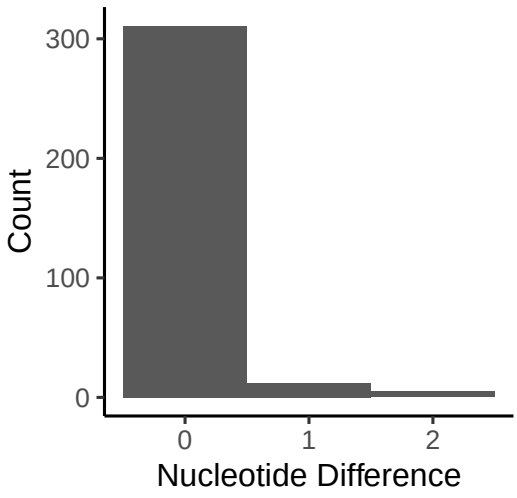
IGHV3−33*08

520 sequences assigned
506 (97.3%) exact matches, in which:
501 unique CDR3
6 unique J



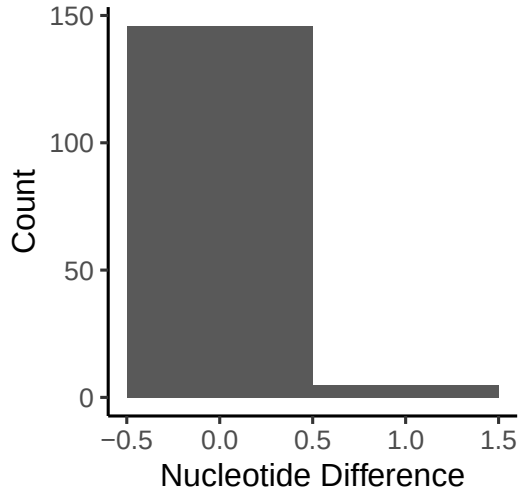
IGHV3−48*03

328 sequences assigned
311 (94.8%) exact matches, in which:
300 unique CDR3
6 unique J



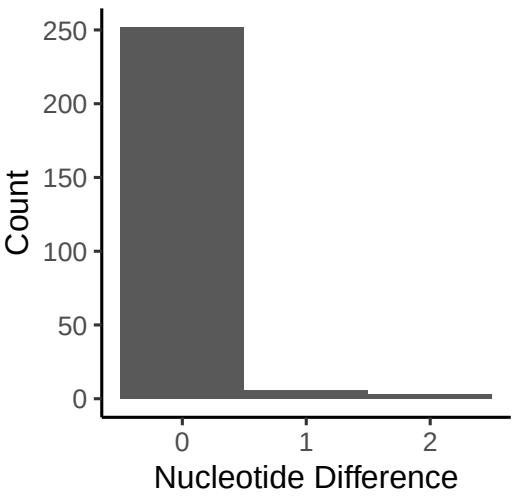
IGHV3−53*04

151 sequences assigned
146 (96.7%) exact matches, in which:
139 unique CDR3
6 unique J



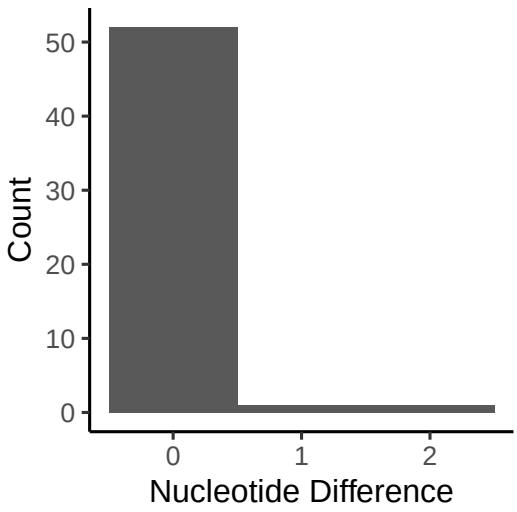
IGHV3−43*02

261 sequences assigned
252 (96.6%) exact matches, in which:
240 unique CDR3
6 unique J



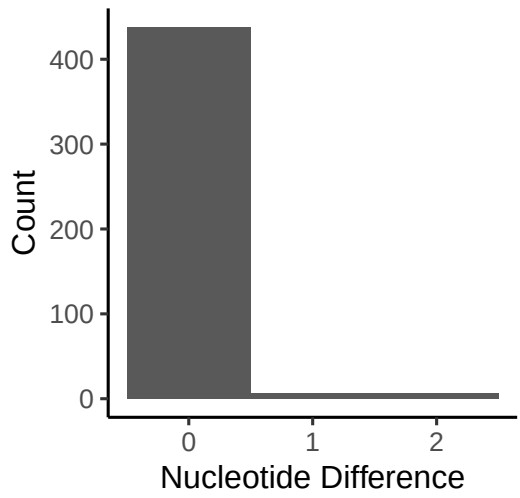
IGHV3−49*04

54 sequences assigned
52 (96.3%) exact matches, in which:
52 unique CDR3
5 unique J



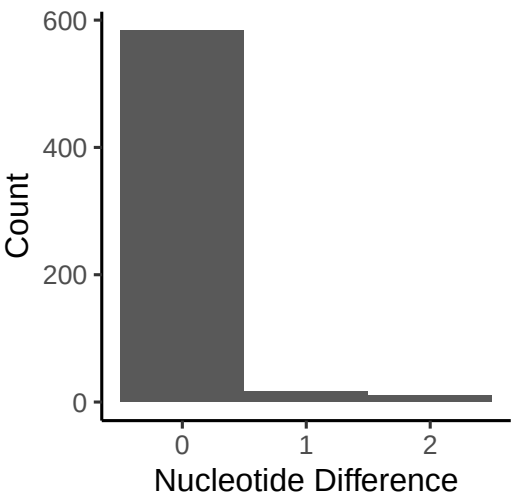
IGHV3−53*01_02

451 sequences assigned
438 (97.1%) exact matches, in which:
424 unique CDR3
6 unique J



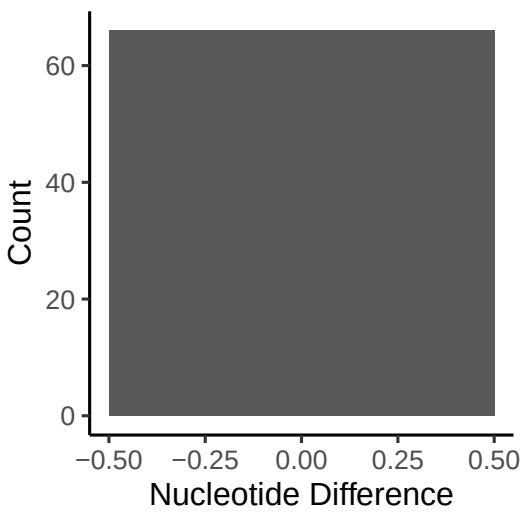
IGHV3−48*02

610 sequences assigned
584 (95.7%) exact matches, in which:
573 unique CDR3
6 unique J



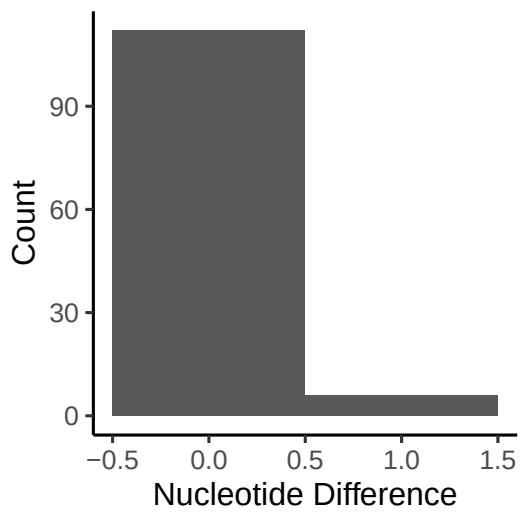
IGHV3−49*03_05

66 sequences assigned
66 (100%) exact matches, in which:
65 unique CDR3
5 unique J



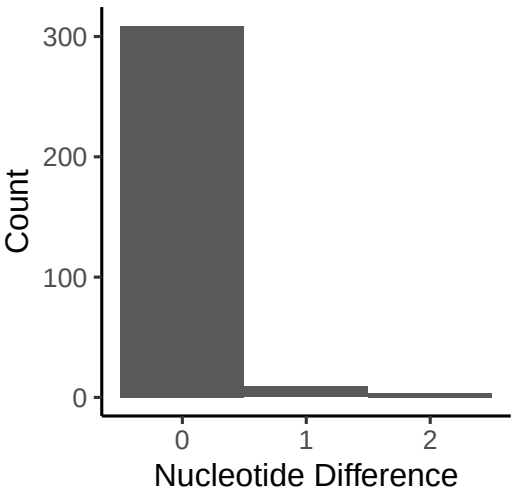
IGHV3−64*01

118 sequences assigned
112 (94.9%) exact matches, in which:
107 unique CDR3
6 unique J



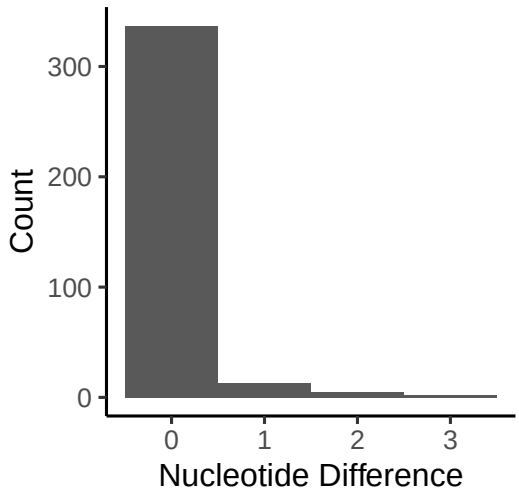
IGHV3−66*01

322 sequences assigned
309 (96%) exact matches, in which:
301 unique CDR3
6 unique J



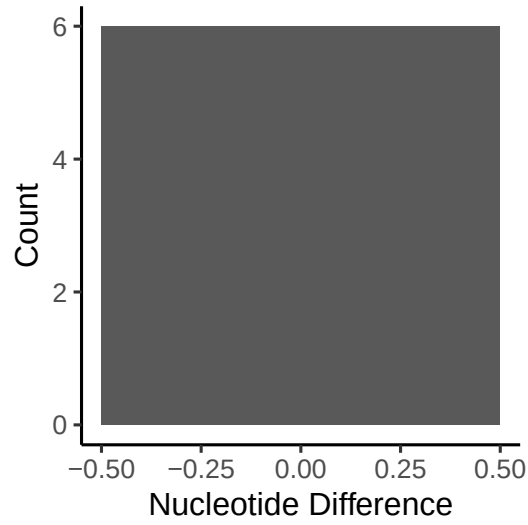
IGHV3−74*01_02

357 sequences assigned
337 (94.4%) exact matches, in which:
329 unique CDR3
7 unique J



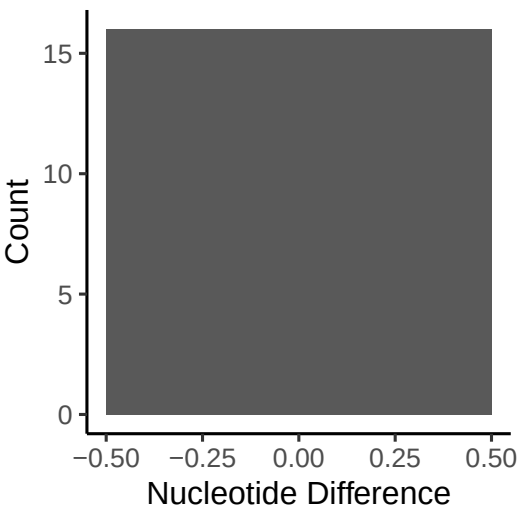
IGHV4−28*01_07

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



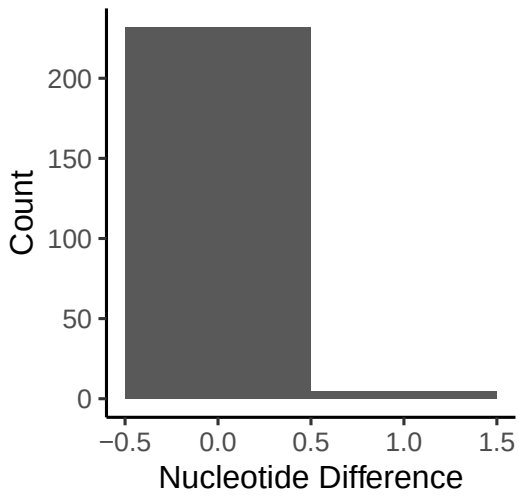
IGHV3−72*01

16 sequences assigned
16 (100%) exact matches, in which:
14 unique CDR3
5 unique J



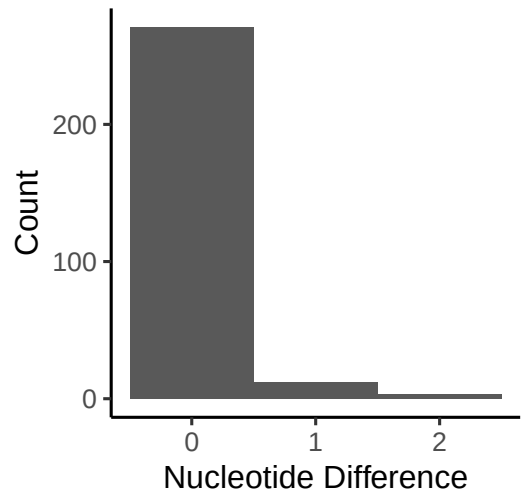
IGHV3−64D*09

237 sequences assigned
232 (97.9%) exact matches, in which:
230 unique CDR3
6 unique J



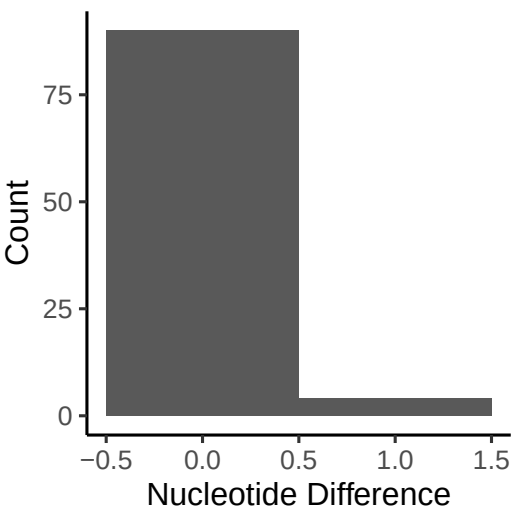
IGHV4−30−2*01

286 sequences assigned
271 (94.8%) exact matches, in which:
268 unique CDR3
6 unique J



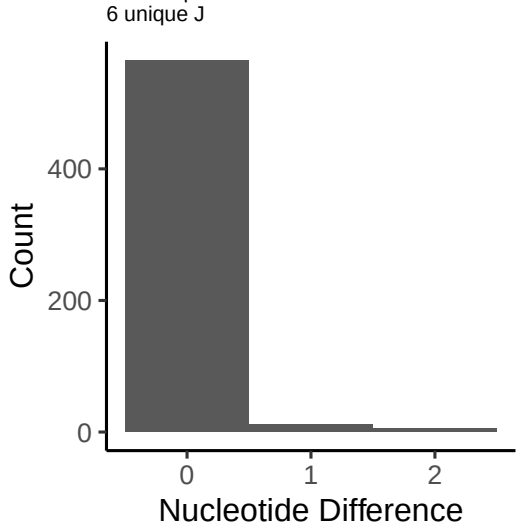
IGHV3−73*01_02

94 sequences assigned
90 (95.7%) exact matches, in which:
89 unique CDR3
6 unique J



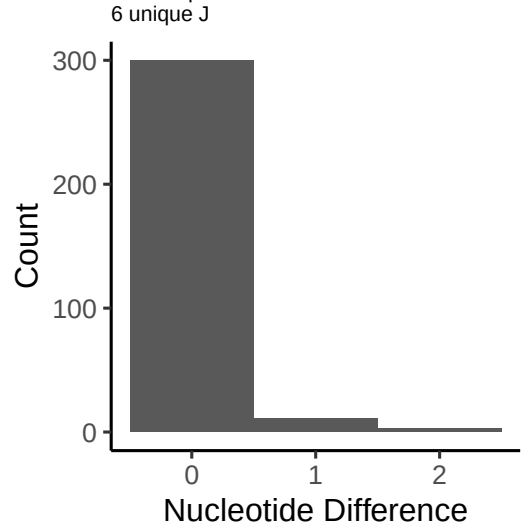
IGHV4−4*07

582 sequences assigned
565 (97.1%) exact matches, in which:
540 unique CDR3
6 unique J



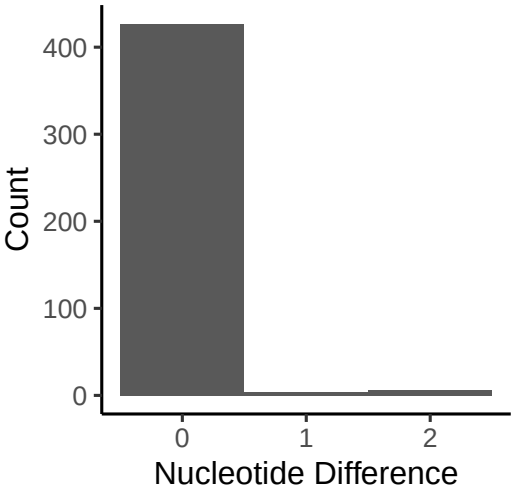
IGHV4−30−4*01

314 sequences assigned
300 (95.5%) exact matches, in which:
297 unique CDR3
6 unique J



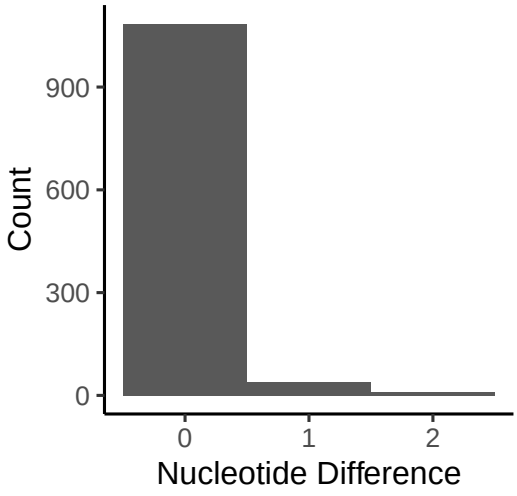
IGHV4−31*02

437 sequences assigned
427 (97.7%) exact matches, in which:
424 unique CDR3
7 unique J



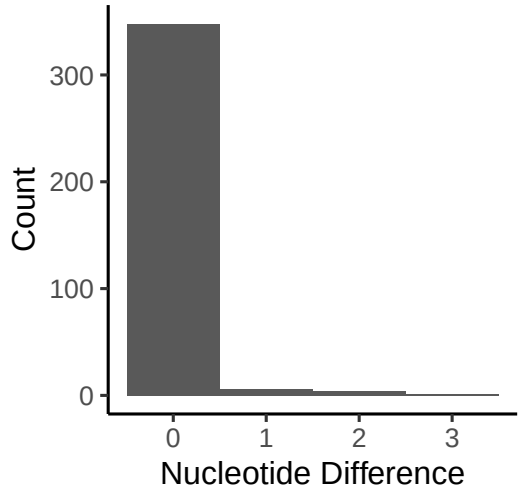
IGHV4−59*08

1134 sequences assigned
1085 (95.7%) exact matches, in which:
1057 unique CDR3
6 unique J



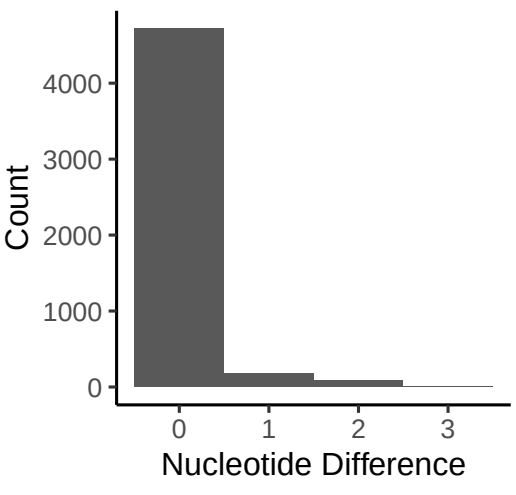
IGHV4−61*01

359 sequences assigned
348 (96.9%) exact matches, in which:
338 unique CDR3
6 unique J



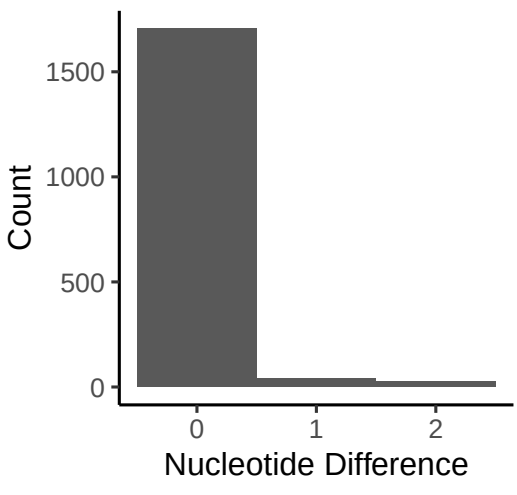
IGHV4−34*01_02

4985 sequences assigned
4717 (94.6%) exact matches, in which:
4560 unique CDR3
7 unique J



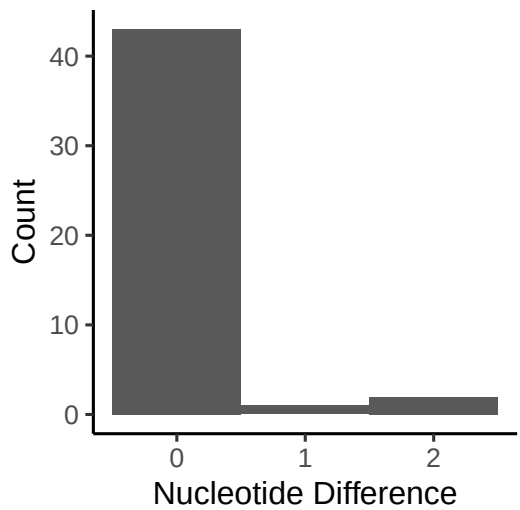
IGHV4−59*01_07

1771 sequences assigned
1705 (96.3%) exact matches, in which:
1650 unique CDR3
7 unique J



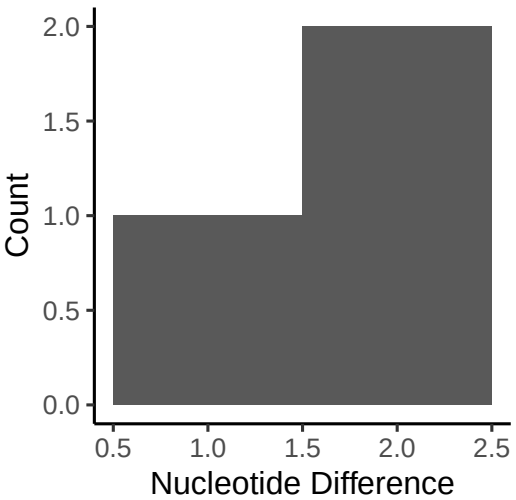
IGHV5−10−1*01_03

46 sequences assigned
43 (93.5%) exact matches, in which:
43 unique CDR3
5 unique J



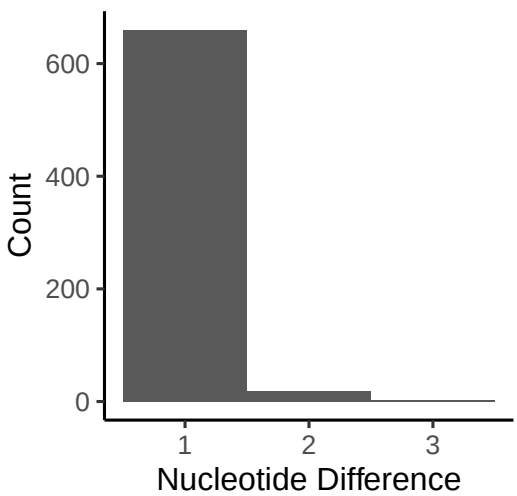
IGHV4−39*02

3 sequences assigned
No exact matches.



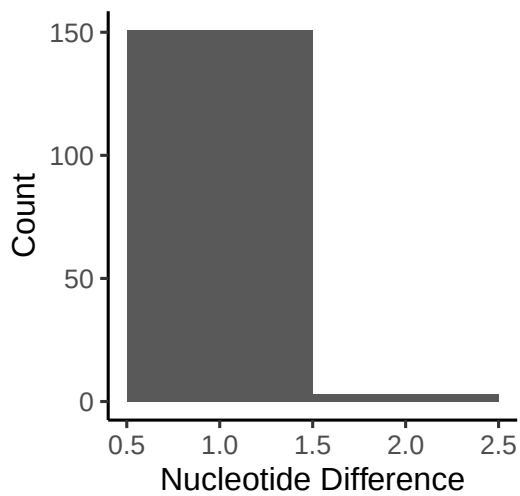
IGHV4−59*12

681 sequences assigned
No exact matches.



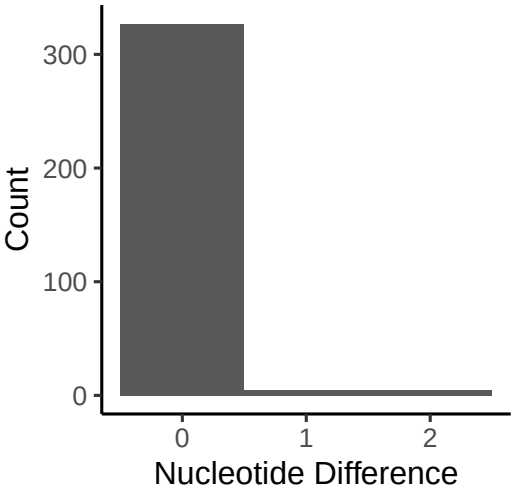
IGHV5−51*07

154 sequences assigned
No exact matches.



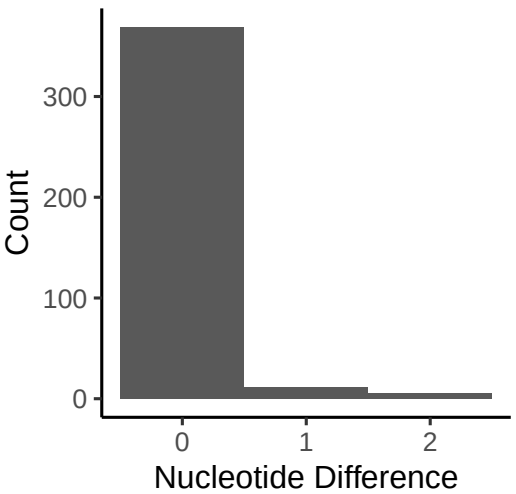
IGHV5−51*01_03

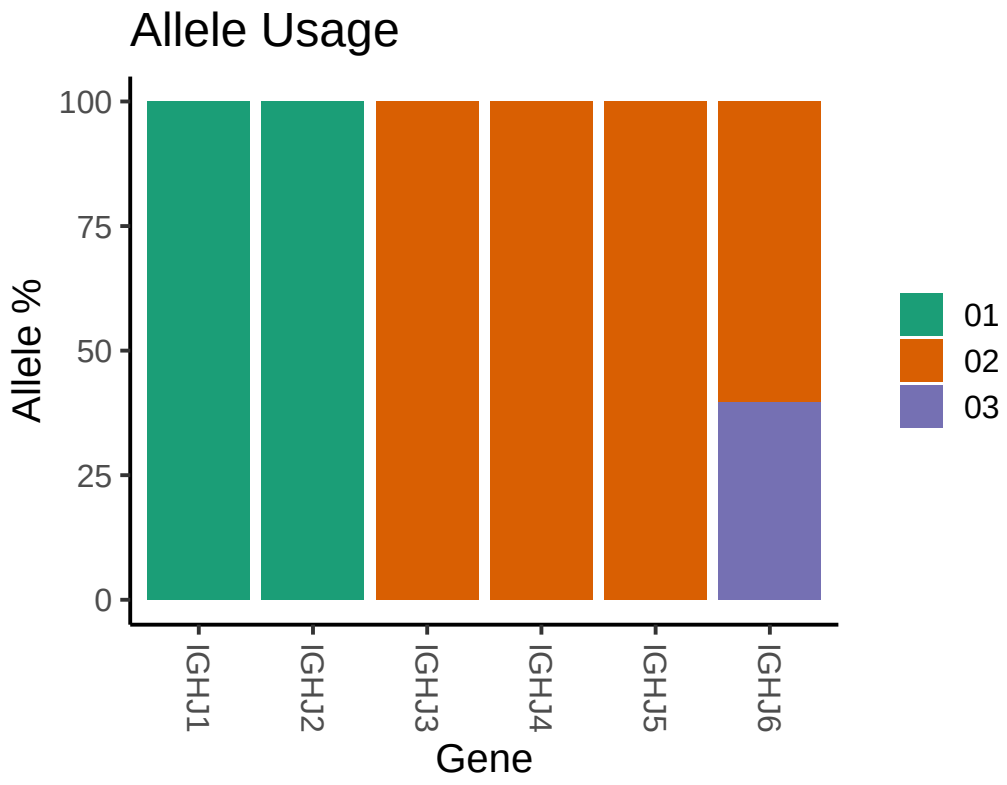
337 sequences assigned
327 (97%) exact matches, in which:
323 unique CDR3
7 unique J

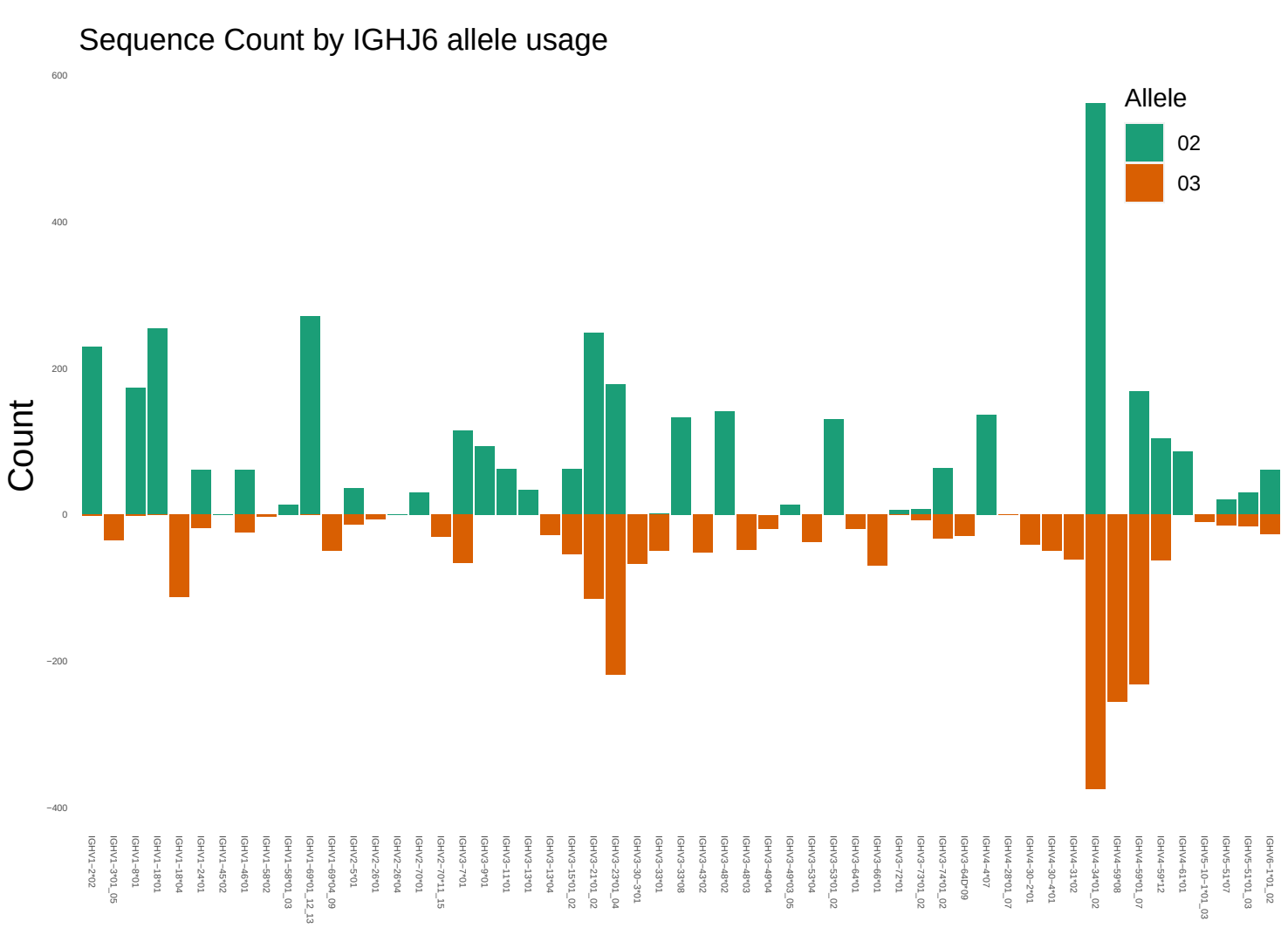


IGHV6−1*01_02

385 sequences assigned
369 (95.8%) exact matches, in which:
360 unique CDR3
7 unique J




Allele Usage
100
75
50
25
0
Allele %
IGHJ1
IGHJ2
IGHJ3
IGHJ4
IGHJ5
IGHJ6
Gene
01
02
03


Sequence Count by IGHJ6 allele usage
Count
600
400
200
0
−200
−400
Allele
02
03
IGHV1-2*02
IGHV1-3*01_05
IGHV1-8*01
IGHV1-18*01
IGHV1-18*04
IGHV1-24*01
IGHV1-45*02
IGHV1-46*01
IGHV1-58*02
IGHV1-58*01_03
IGHV1-69*01_12_13
IGHV1-69*04_09
IGHV2-5*01
IGHV2-26*01
IGHV2-26*04
IGHV2-70*01
IGHV2-70*11_15
IGHV3-7*01
IGHV3-9*01
IGHV3-11*01
IGHV3-13*01
IGHV3-13*04
IGHV3-15*01_02
IGHV3-21*01_02
IGHV3-23*01_04
IGHV3-30-3*01
IGHV3-33*01
IGHV3-33*08
IGHV3-43*02
IGHV3-48*02
IGHV3-48*03
IGHV3-49*04
IGHV3-49*03_05
IGHV3-53*04
IGHV3-53*01_02
IGHV3-64*01
IGHV3-66*01
IGHV3-72*01
IGHV3-73*01_02
IGHV3-74*01_02
IGHV3-64D*09
IGHV4-4*07
IGHV4-28*01_07
IGHV4-30-2*01
IGHV4-30-4*01
IGHV4-31*02
IGHV4-34*01_02
IGHV4-59*08
IGHV4-59*01_07
IGHV4-59*12
IGHV4-61*01
IGHV5-10-1*01_03
IGHV5-51*07
IGHV5-51*01_03
IGHV6-1*01_02

Warning – no inferred sequences found.

Warning – no inferred sequences found.

Warning – no inferred sequences found.