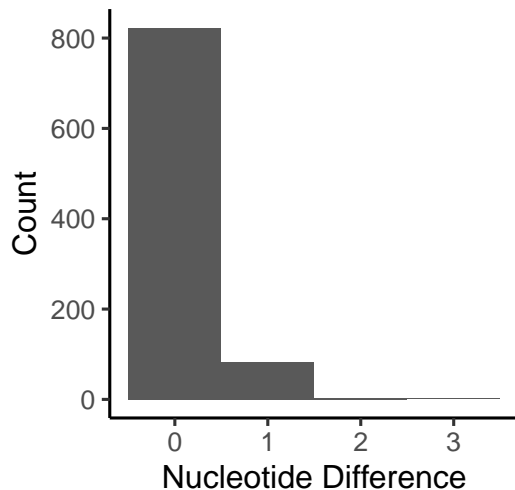


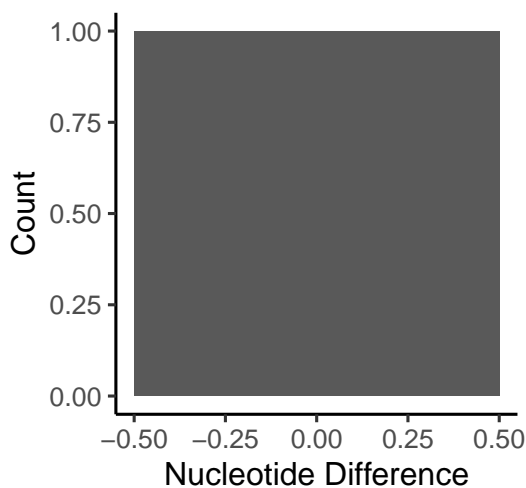
IGHV1-2*06

910 sequences assigned
823 (90.4%) exact matches, in which:
821 unique CDR3
6 unique J



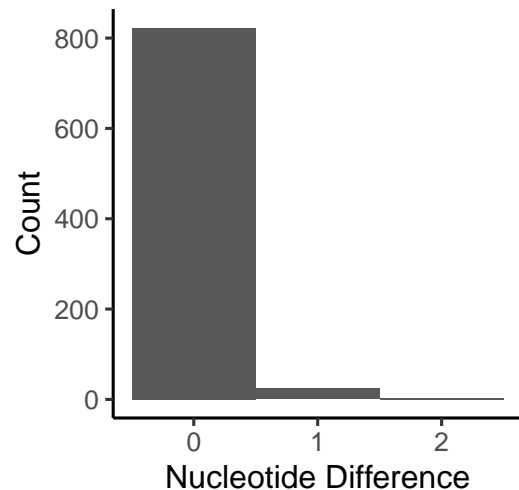
IGHV1-8*03

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



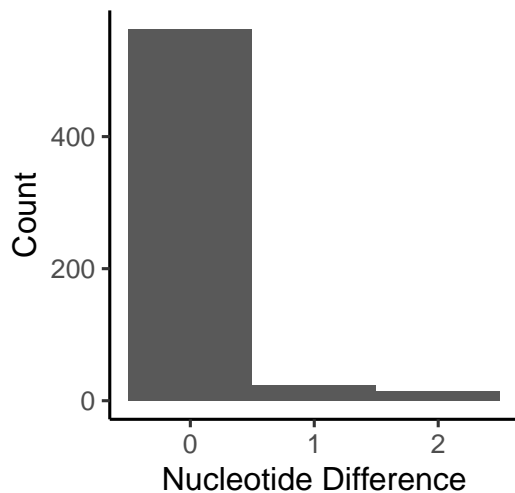
IGHV1-24*01

850 sequences assigned
823 (96.8%) exact matches, in which:
821 unique CDR3
7 unique J



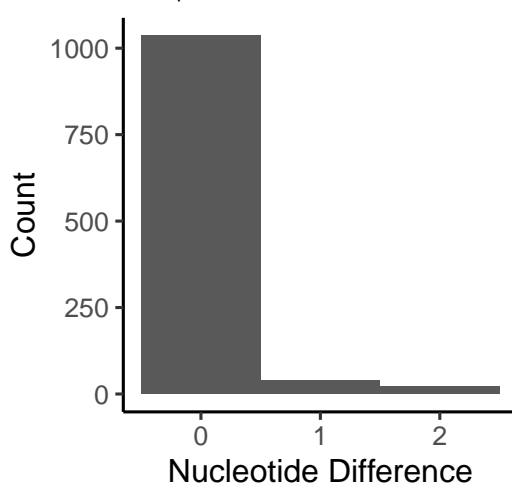
IGHV1-3*01_05

600 sequences assigned
563 (93.8%) exact matches, in which:
563 unique CDR3
7 unique J



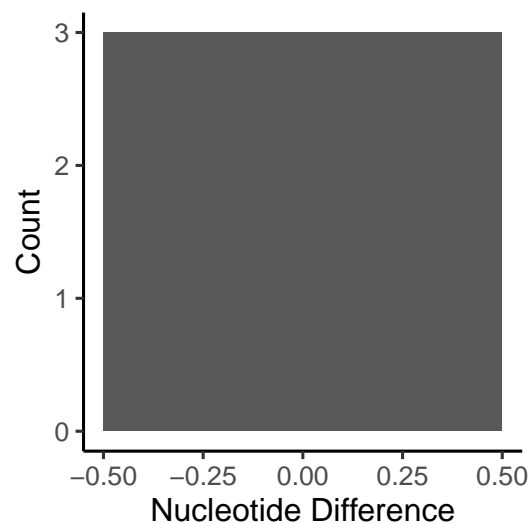
IGHV1-18*01

1098 sequences assigned
1036 (94.4%) exact matches, in which:
1035 unique CDR3
7 unique J



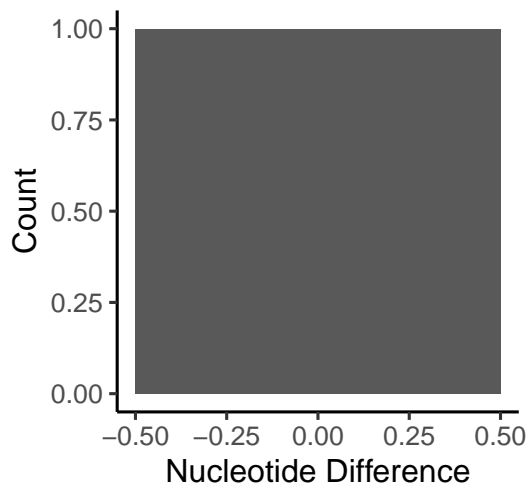
IGHV1-45*02

3 sequences assigned
3 (100%) exact matches, in which:
3 unique CDR3
2 unique J



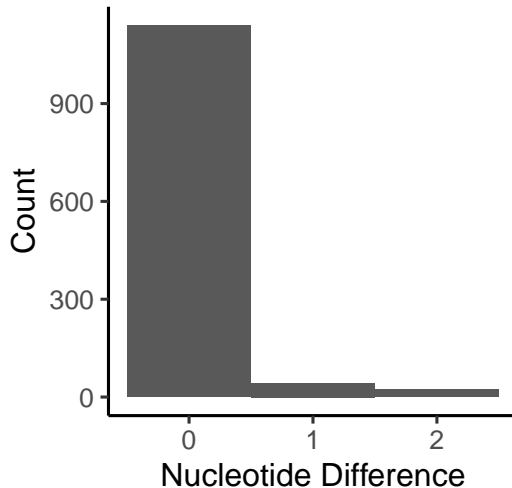
IGHV1-8*01

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



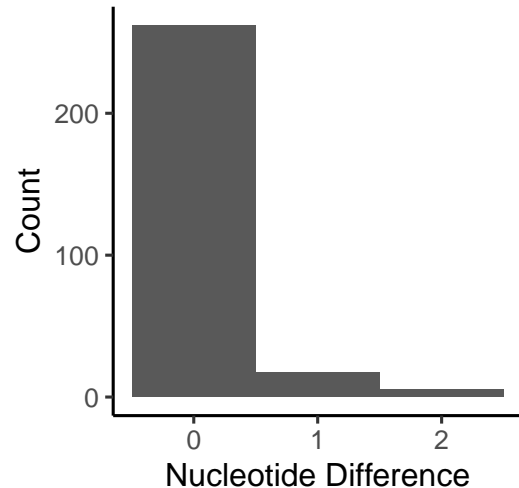
IGHV1-18*04

1205 sequences assigned
1140 (94.6%) exact matches, in which:
1137 unique CDR3
7 unique J



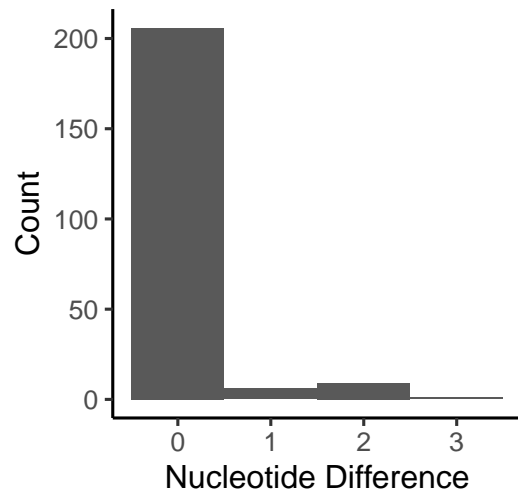
IGHV1-46*01

284 sequences assigned
262 (92.3%) exact matches, in which:
262 unique CDR3
7 unique J



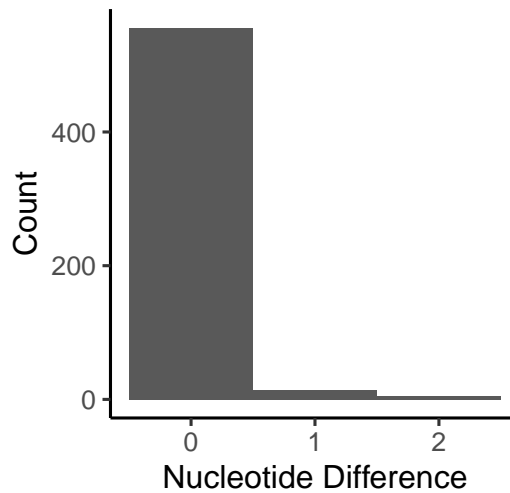
IGHV1-46*03

222 sequences assigned
206 (92.8%) exact matches, in which:
206 unique CDR3
6 unique J



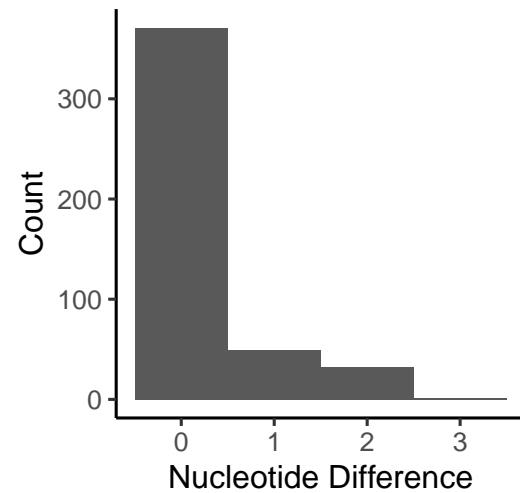
IGHV1-69*02

575 sequences assigned
556 (96.7%) exact matches, in which:
556 unique CDR3
6 unique J



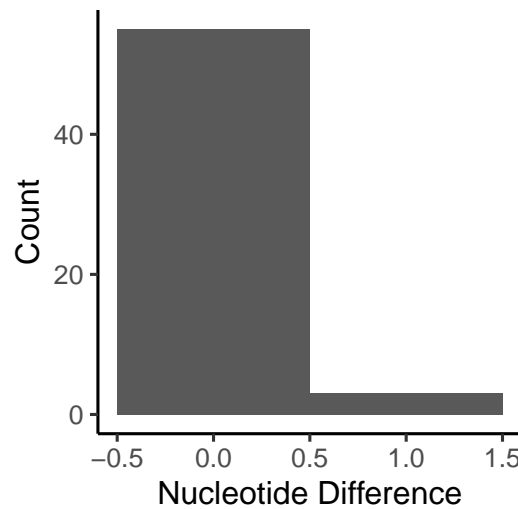
IGHV2-5*02

453 sequences assigned
371 (81.9%) exact matches, in which:
370 unique CDR3
7 unique J



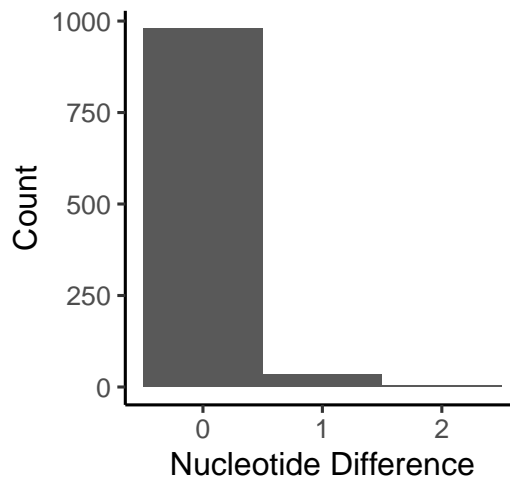
IGHV1-58*02

58 sequences assigned
55 (94.8%) exact matches, in which:
55 unique CDR3
6 unique J



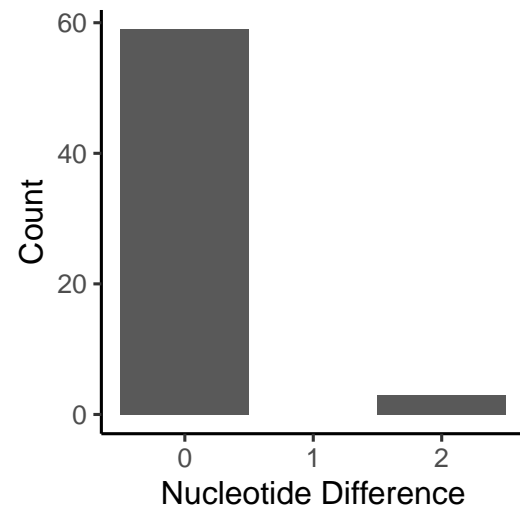
IGHV1-69*01_12_13

1018 sequences assigned
979 (96.2%) exact matches, in which:
979 unique CDR3
7 unique J



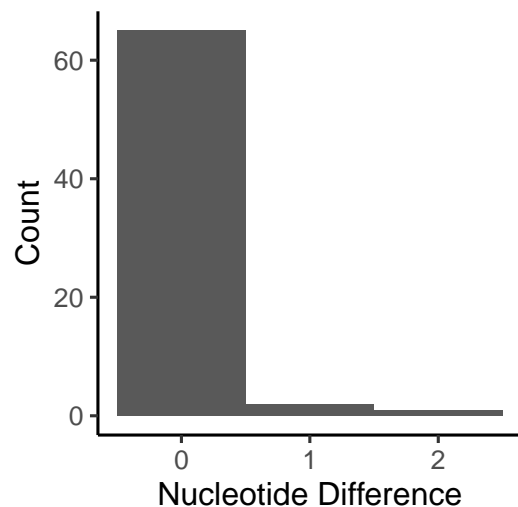
IGHV2-26*01

62 sequences assigned
59 (95.2%) exact matches, in which:
59 unique CDR3
7 unique J



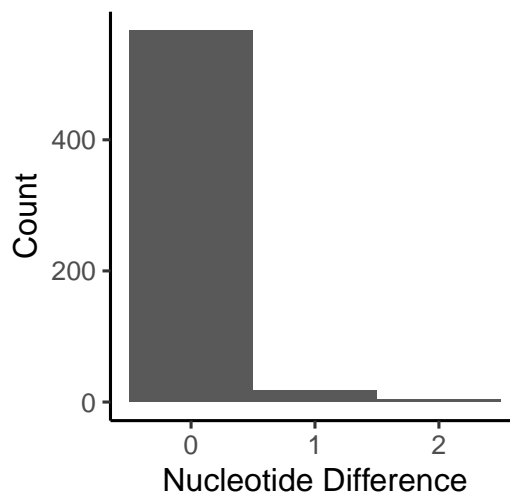
IGHV1-58*01_03

68 sequences assigned
65 (95.6%) exact matches, in which:
65 unique CDR3
6 unique J



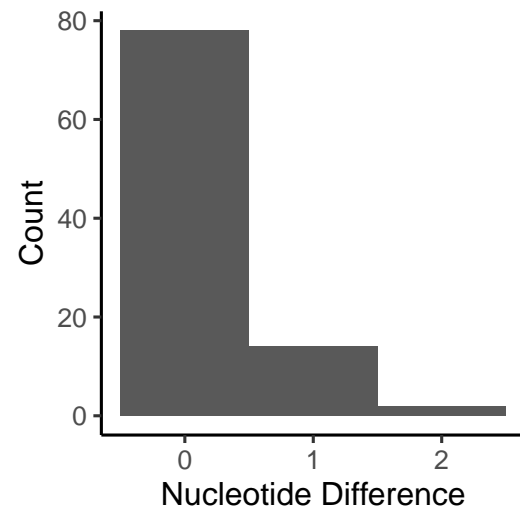
IGHV1-69*06_14

588 sequences assigned
567 (96.4%) exact matches, in which:
567 unique CDR3
7 unique J



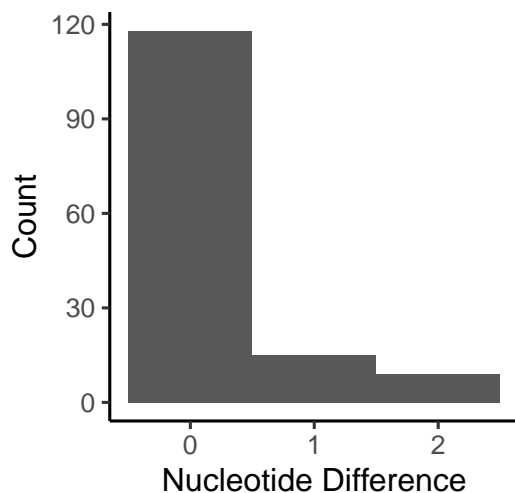
IGHV2-70*01

94 sequences assigned
78 (83%) exact matches, in which:
72 unique CDR3
5 unique J



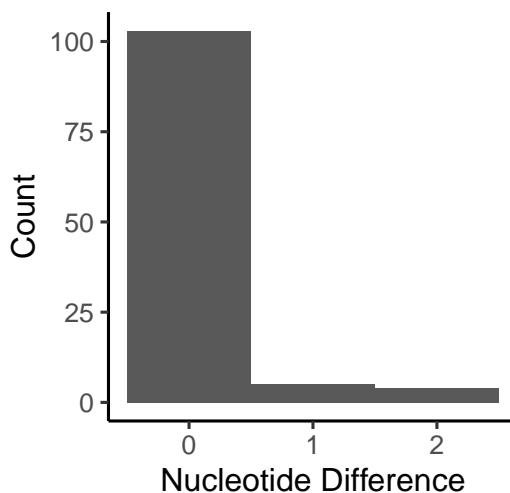
IGHV2–70*11_15

142 sequences assigned
118 (83.1%) exact matches, in which:
118 unique CDR3
6 unique J



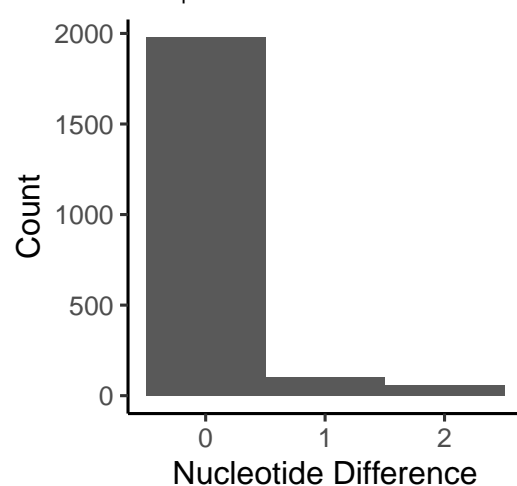
IGHV3–13*05

112 sequences assigned
103 (92%) exact matches, in which:
102 unique CDR3
6 unique J



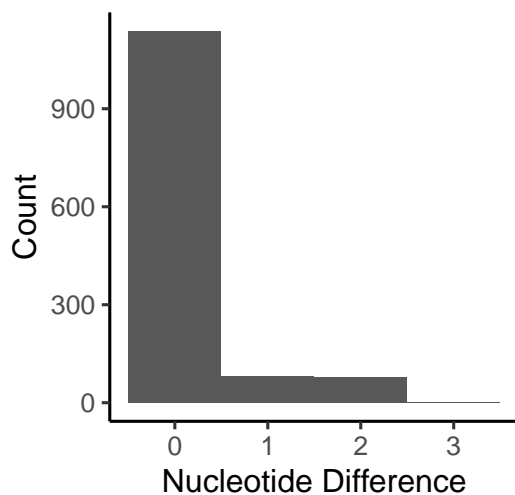
IGHV3–21*01_02

2140 sequences assigned
1978 (92.4%) exact matches, in which:
1943 unique CDR3
7 unique J



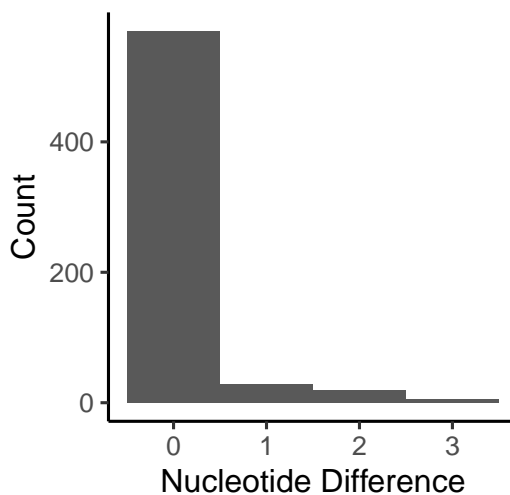
IGHV3–7*03

1299 sequences assigned
1138 (87.6%) exact matches, in which:
1118 unique CDR3
7 unique J



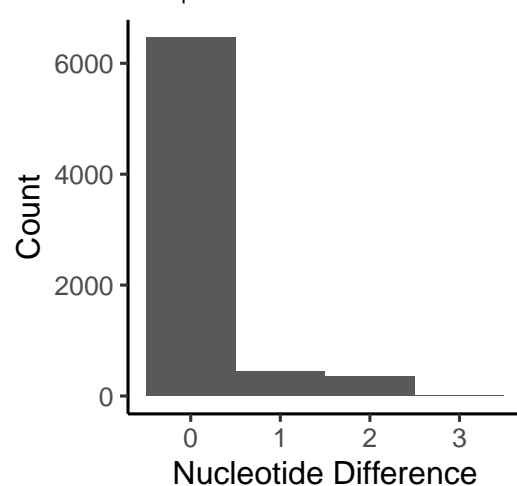
IGHV3–15*01_02

623 sequences assigned
570 (91.5%) exact matches, in which:
564 unique CDR3
7 unique J



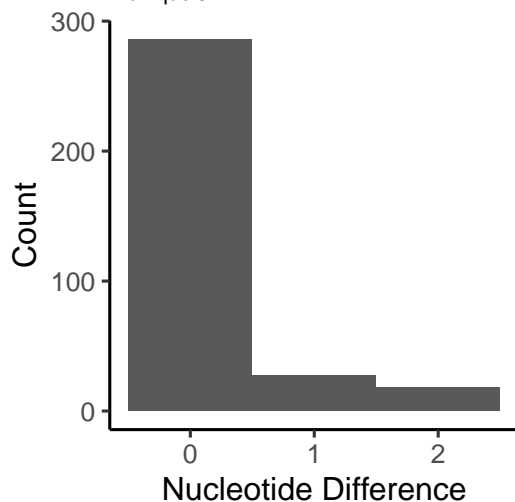
IGHV3–23*01_04

7257 sequences assigned
6461 (89%) exact matches, in which:
6348 unique CDR3
7 unique J



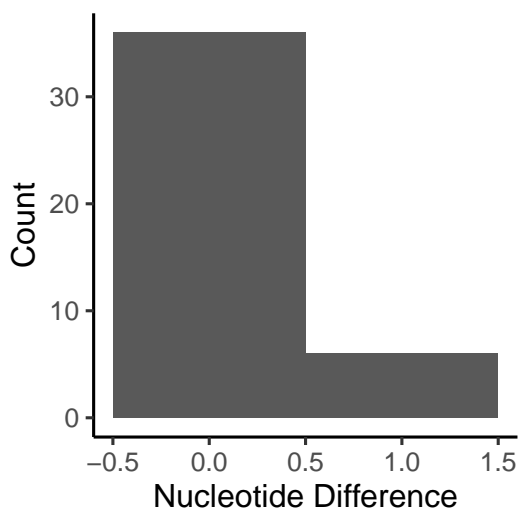
IGHV3–11*06

331 sequences assigned
286 (86.4%) exact matches, in which:
284 unique CDR3
7 unique J



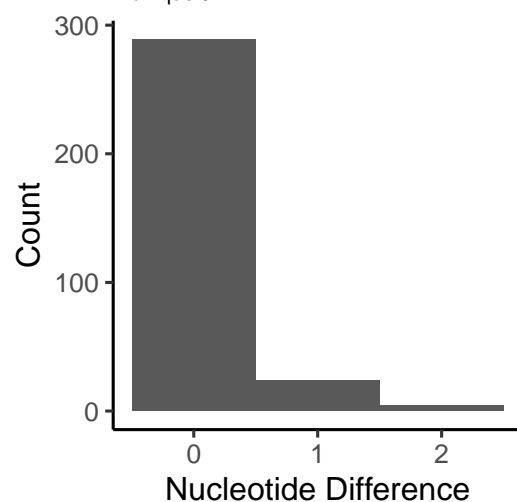
IGHV3–20*01_02

42 sequences assigned
36 (85.7%) exact matches, in which:
36 unique CDR3
5 unique J



IGHV3–33*01

317 sequences assigned
289 (91.2%) exact matches, in which:
285 unique CDR3
7 unique J



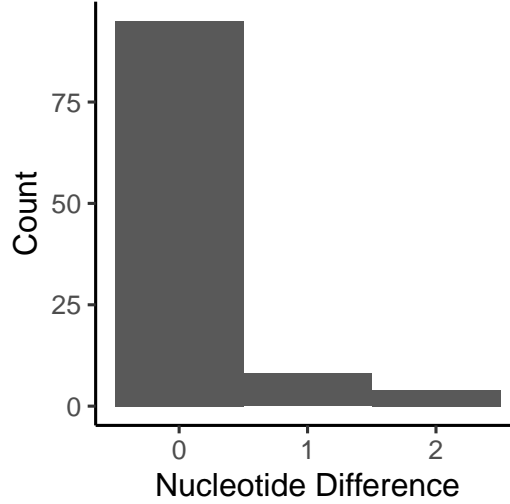
IGHV3-38-3*01

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



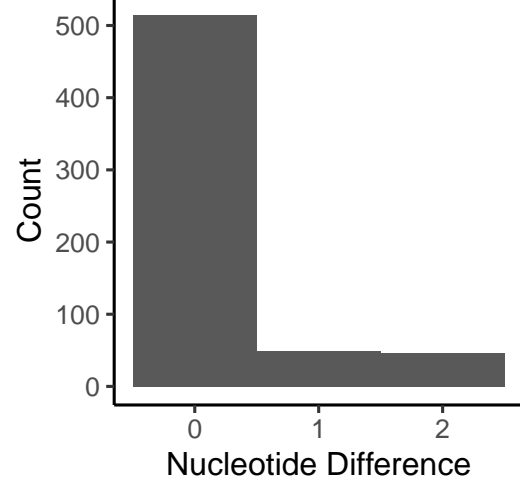
IGHV3-49*04

107 sequences assigned
95 (88.8%) exact matches, in which:
95 unique CDR3
6 unique J



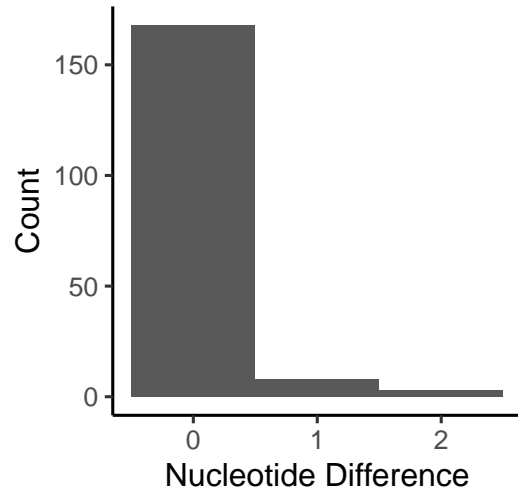
IGHV3-53*01_02

610 sequences assigned
515 (84.4%) exact matches, in which:
507 unique CDR3
7 unique J



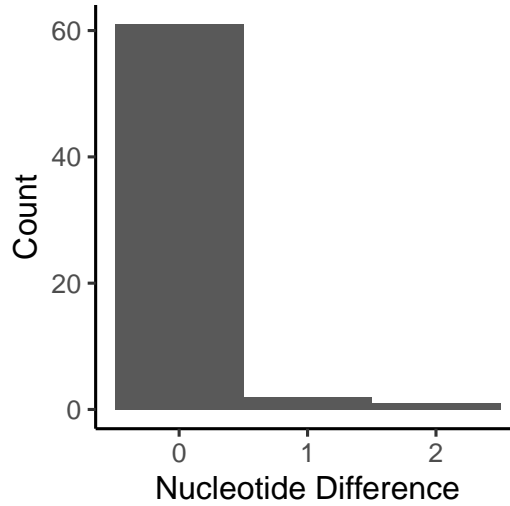
IGHV3-43*01

179 sequences assigned
168 (93.9%) exact matches, in which:
167 unique CDR3
7 unique J



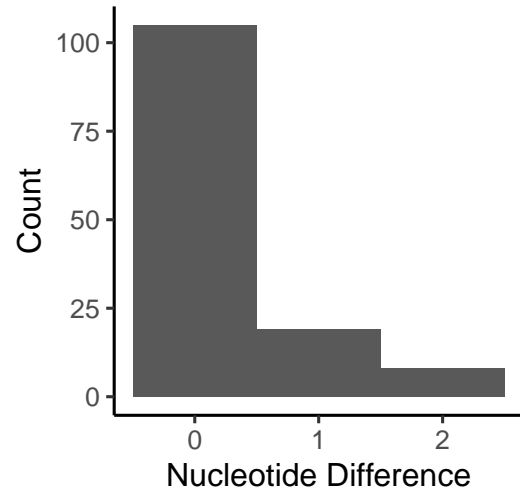
IGHV3-49*03_05

64 sequences assigned
61 (95.3%) exact matches, in which:
60 unique CDR3
6 unique J



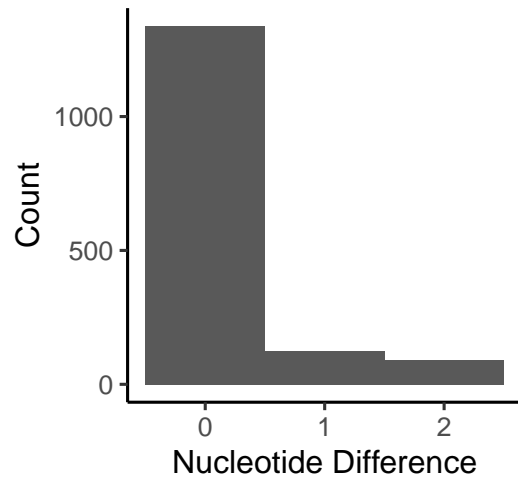
IGHV3-64*01

132 sequences assigned
105 (79.5%) exact matches, in which:
101 unique CDR3
6 unique J



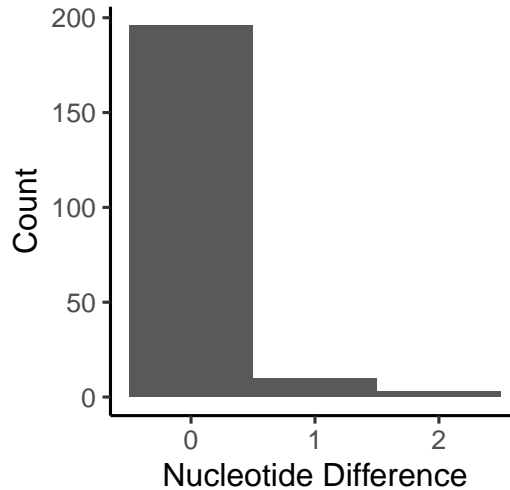
IGHV3-48*02

1554 sequences assigned
1338 (86.1%) exact matches, in which:
1316 unique CDR3
7 unique J



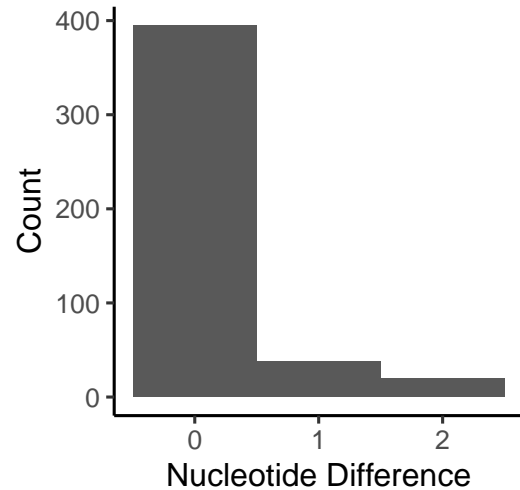
IGHV3-53*04

209 sequences assigned
196 (93.8%) exact matches, in which:
193 unique CDR3
6 unique J



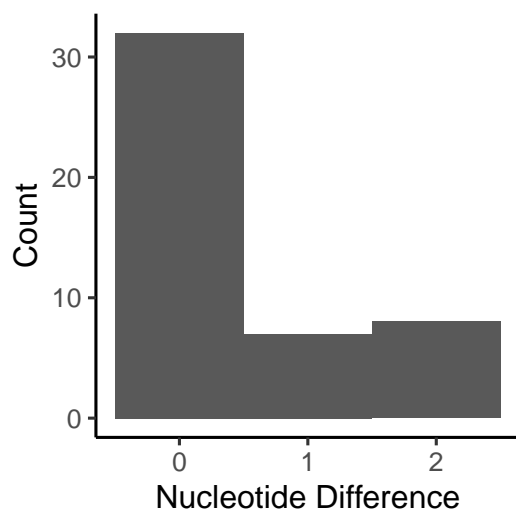
IGHV3-66*01

453 sequences assigned
395 (87.2%) exact matches, in which:
389 unique CDR3
7 unique J



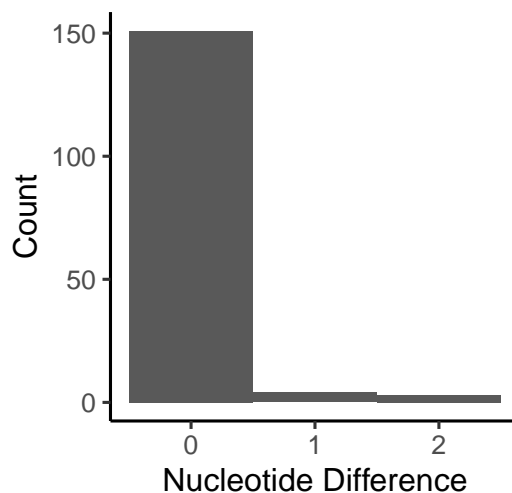
IGHV3-72*01

47 sequences assigned
32 (68.1%) exact matches, in which:
32 unique CDR3
4 unique J



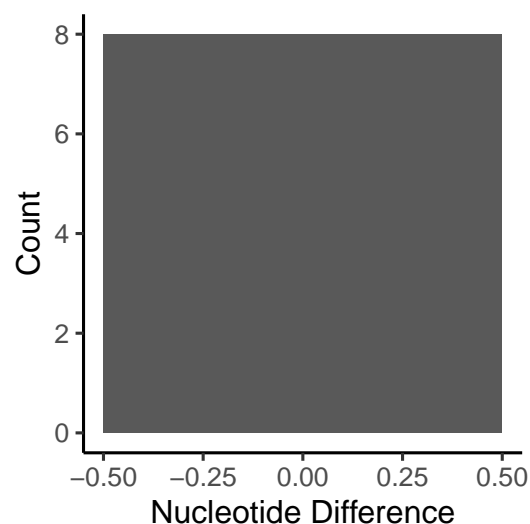
IGHV3-43D*03

158 sequences assigned
151 (95.6%) exact matches, in which:
146 unique CDR3
7 unique J



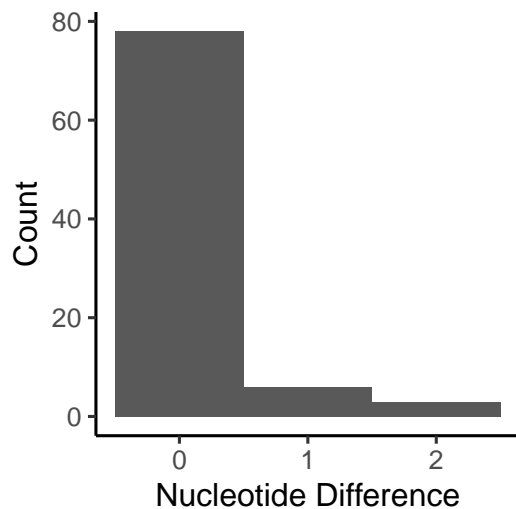
IGHV4-28*01_07

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



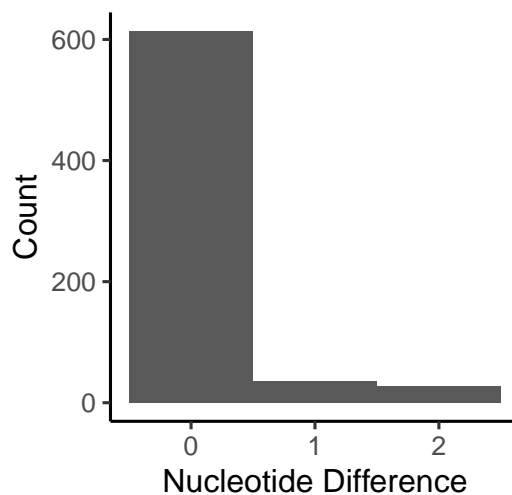
IGHV3-73*01_02

87 sequences assigned
78 (89.7%) exact matches, in which:
78 unique CDR3
6 unique J



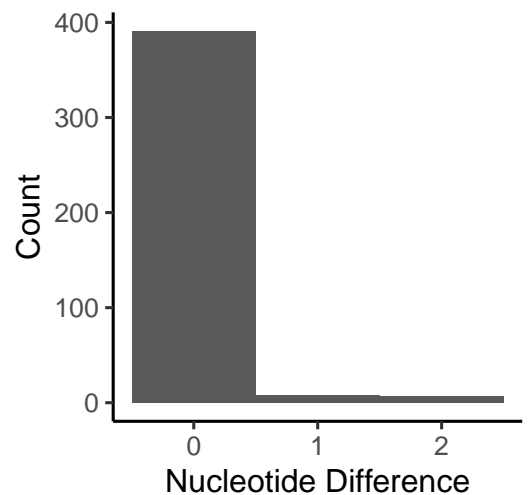
IGHV3-64D*06

677 sequences assigned
614 (90.7%) exact matches, in which:
608 unique CDR3
7 unique J



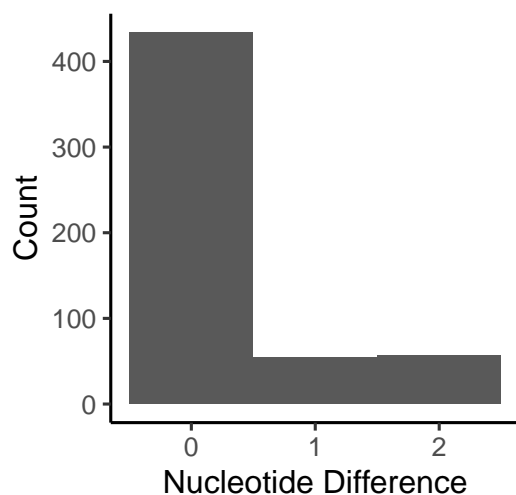
IGHV4-30-2*01

406 sequences assigned
391 (96.3%) exact matches, in which:
389 unique CDR3
6 unique J



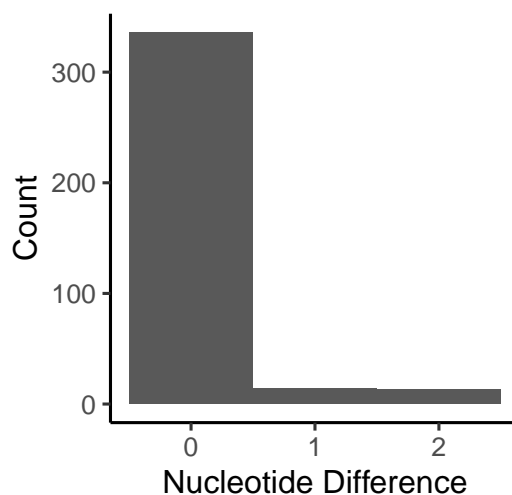
IGHV3-74*01_02

545 sequences assigned
434 (79.6%) exact matches, in which:
427 unique CDR3
7 unique J



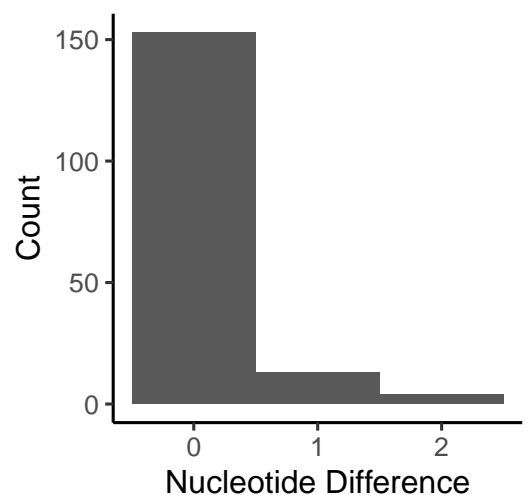
IGHV4-4*02_03

363 sequences assigned
336 (92.6%) exact matches, in which:
334 unique CDR3
6 unique J



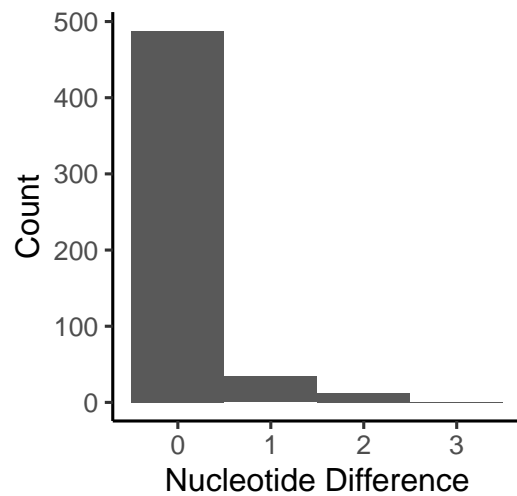
IGHV4-30-4*07

170 sequences assigned
153 (90%) exact matches, in which:
151 unique CDR3
6 unique J



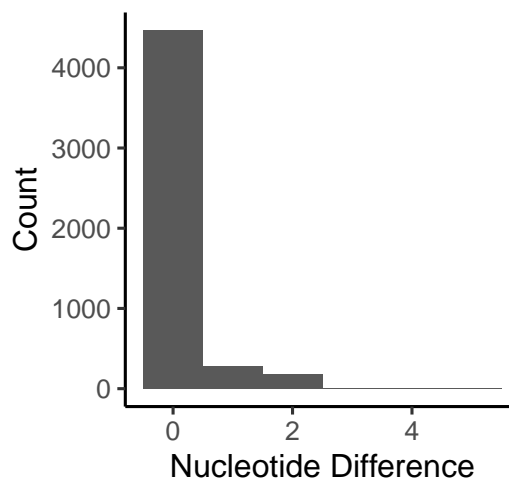
IGHV4-31*02

535 sequences assigned
488 (91.2%) exact matches, in which:
488 unique CDR3
6 unique J



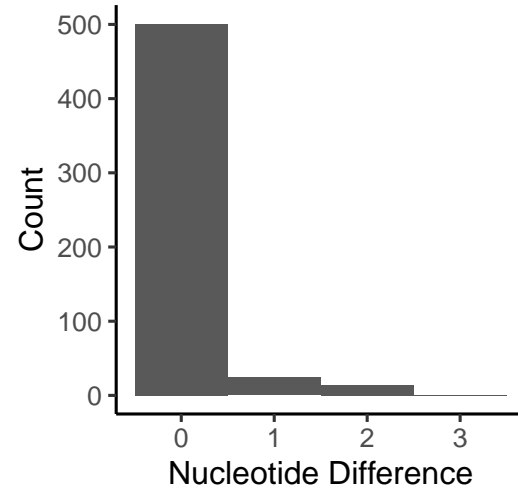
IGHV4-39*02_C258G

4934 sequences assigned
4466 (90.5%) exact matches, in which:
4411 unique CDR3
7 unique J



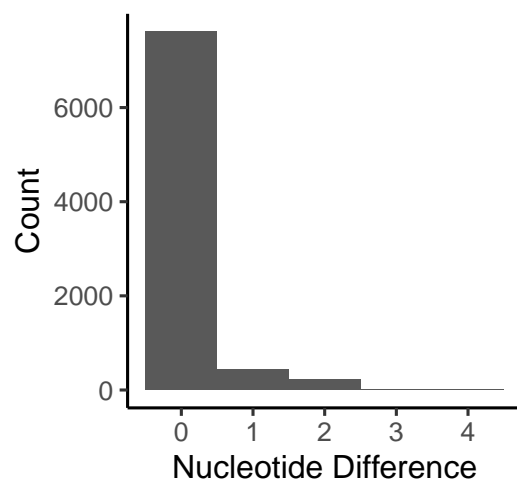
IGHV4-61*01

540 sequences assigned
501 (92.8%) exact matches, in which:
499 unique CDR3
6 unique J



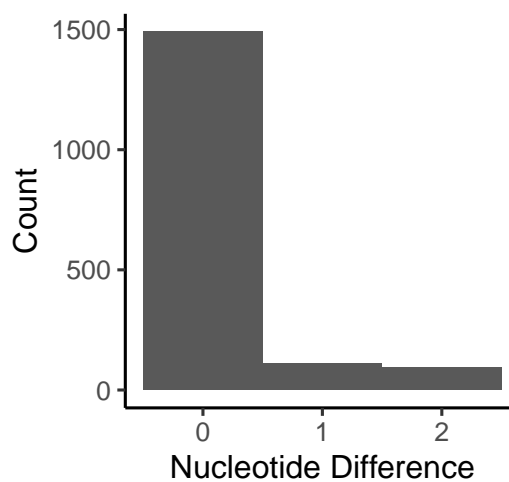
IGHV4-34*01_02

8271 sequences assigned
7611 (92%) exact matches, in which:
7517 unique CDR3
7 unique J



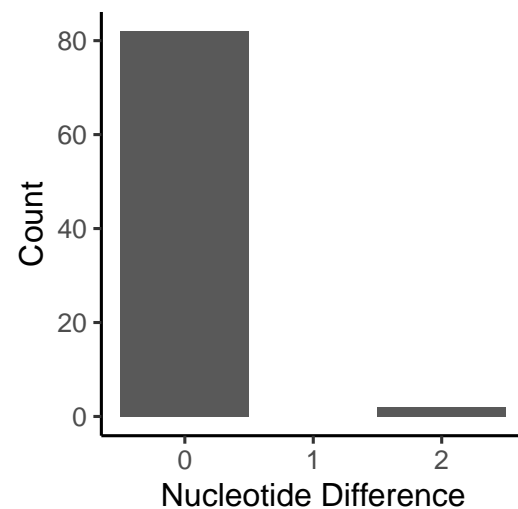
IGHV4-59*08

1696 sequences assigned
1491 (87.9%) exact matches, in which:
1478 unique CDR3
7 unique J



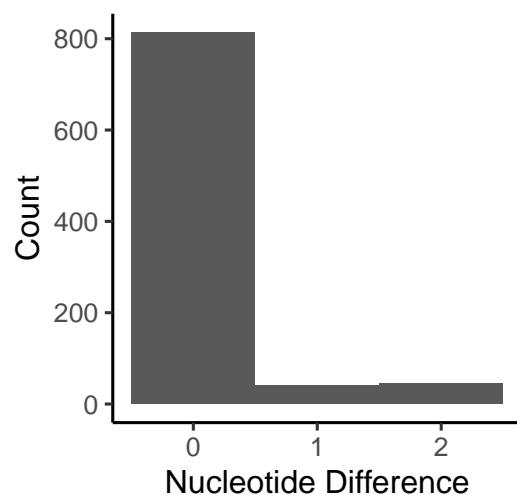
IGHV5-10-1*01_03

84 sequences assigned
82 (97.6%) exact matches, in which:
82 unique CDR3
7 unique J



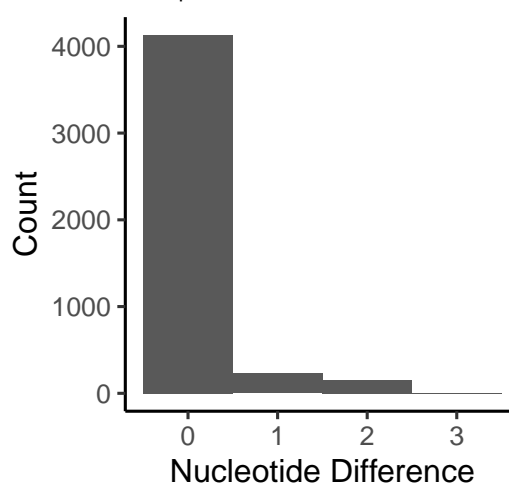
IGHV4-38-2*02

898 sequences assigned
814 (90.6%) exact matches, in which:
803 unique CDR3
6 unique J



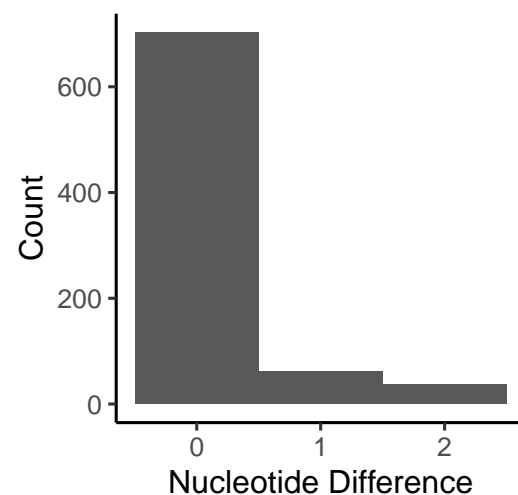
IGHV4-59*02_G88A

4517 sequences assigned
4130 (91.4%) exact matches, in which:
4084 unique CDR3
7 unique J



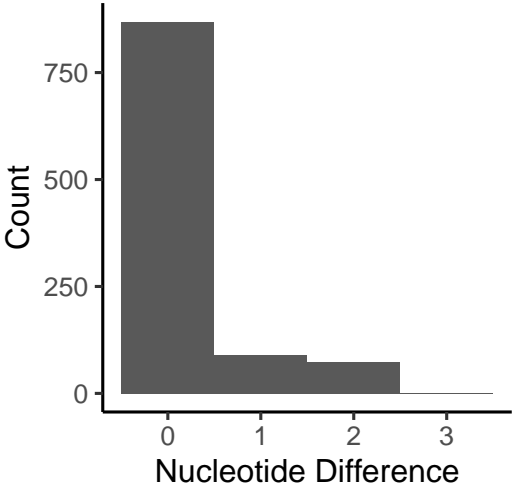
IGHV5-51*07_A128G

802 sequences assigned
703 (87.7%) exact matches, in which:
703 unique CDR3
7 unique J



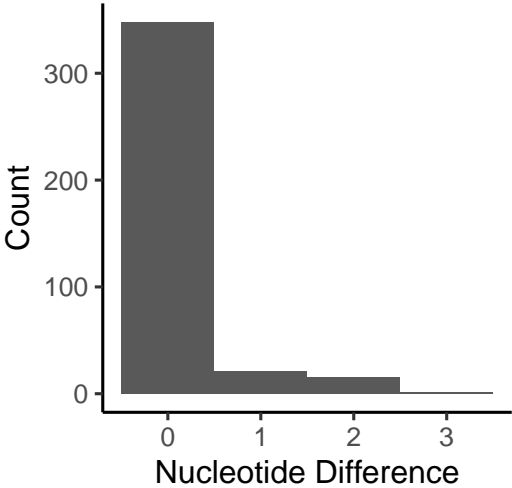
IGHV6-1*01_02

1033 sequences assigned
869 (84.1%) exact matches, in which:
865 unique CDR3
7 unique J

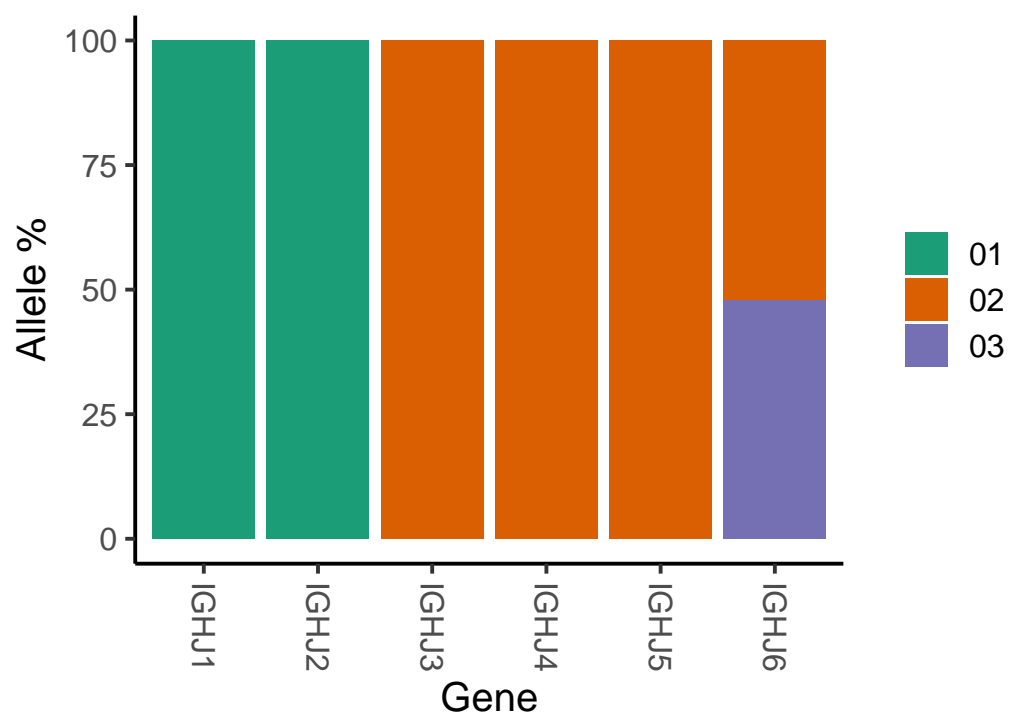


IGHV7-4-1*02

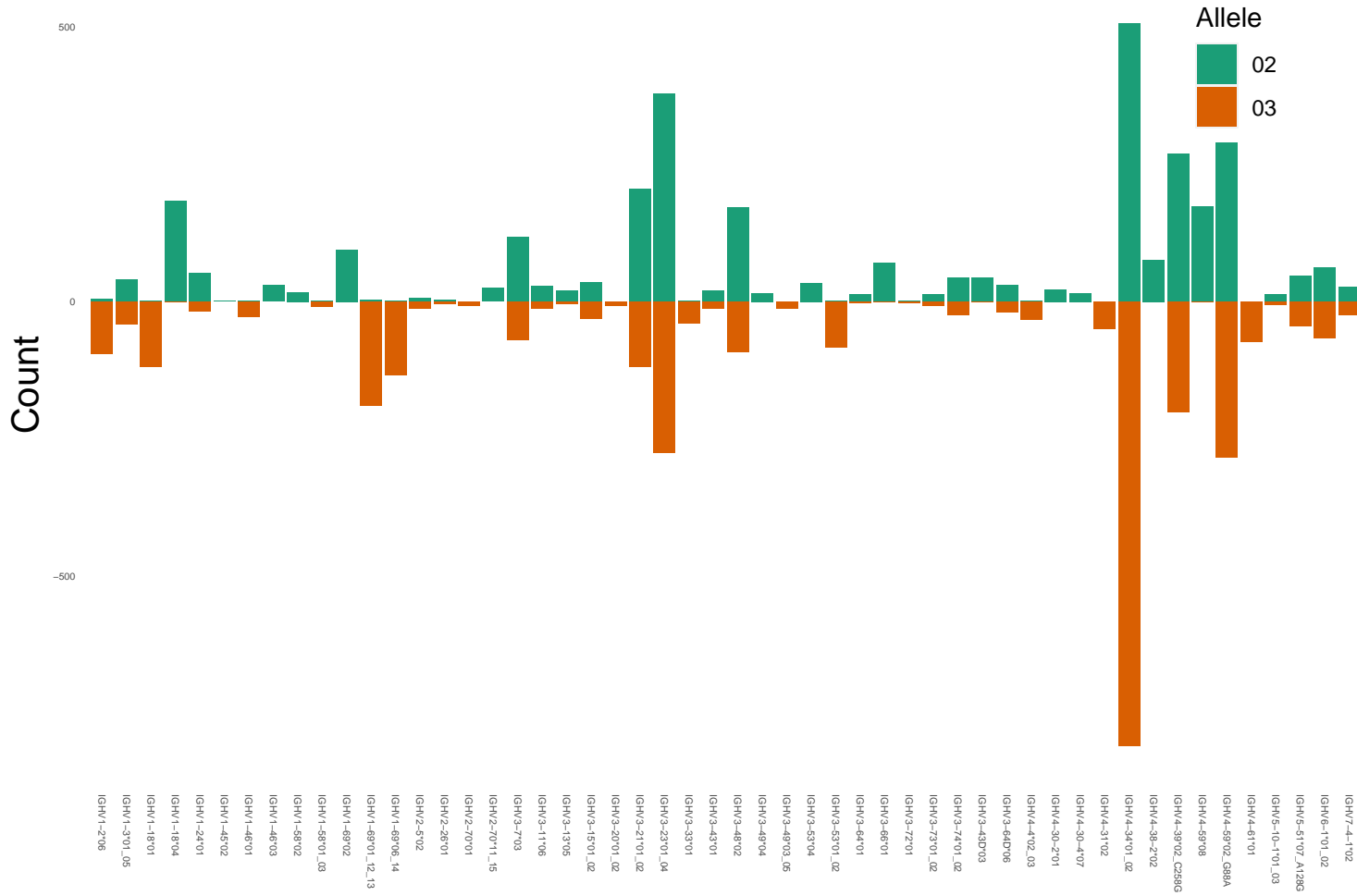
385 sequences assigned
348 (90.4%) exact matches, in which:
348 unique CDR3
7 unique J



Allele Usage



Sequence Count by IGHJ6 allele usage



Warning – no inferred sequences found.