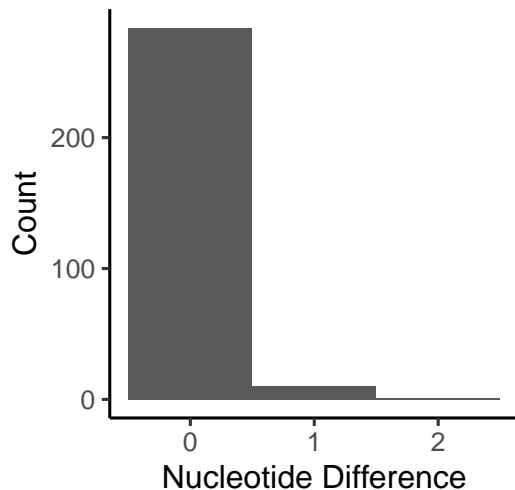


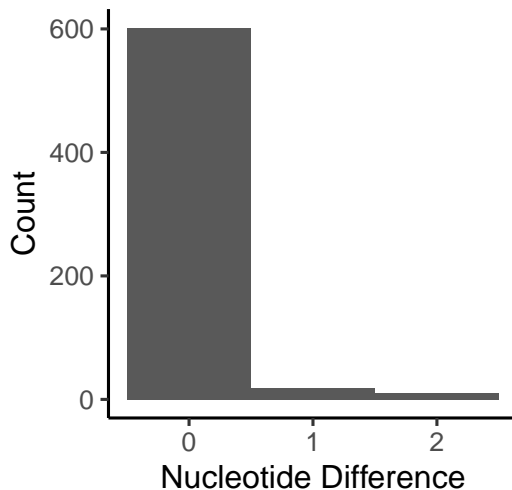
IGHV1-2*04

295 sequences assigned
284 (96.3%) exact matches, in which:
283 unique CDR3
7 unique J



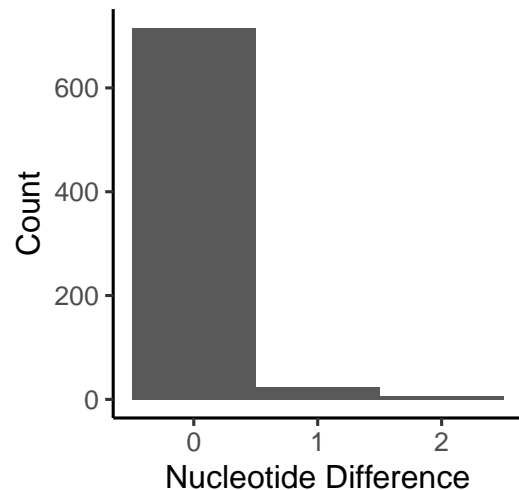
IGHV1-8*01

632 sequences assigned
602 (95.3%) exact matches, in which:
602 unique CDR3
6 unique J



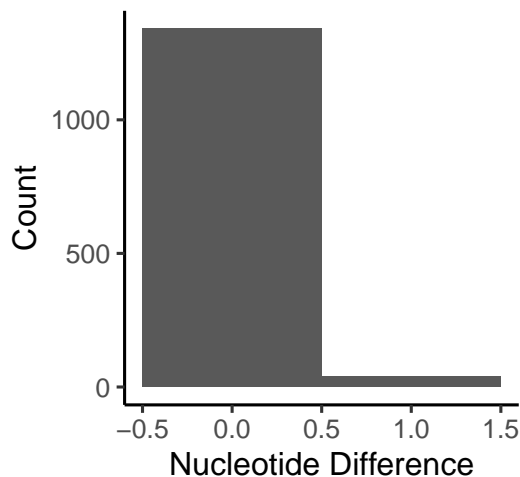
IGHV1-24*01

747 sequences assigned
716 (95.9%) exact matches, in which:
712 unique CDR3
7 unique J



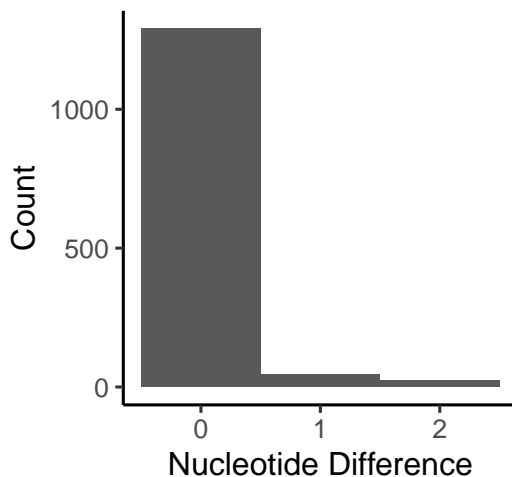
IGHV1-2*06

1382 sequences assigned
1341 (97%) exact matches, in which:
1338 unique CDR3
7 unique J



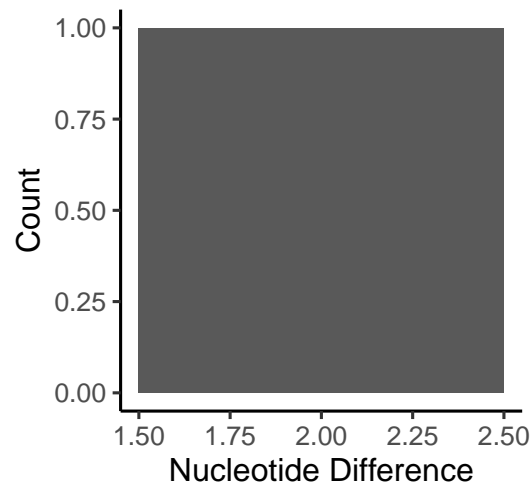
IGHV1-18*01

1357 sequences assigned
1290 (95.1%) exact matches, in which:
1284 unique CDR3
7 unique J



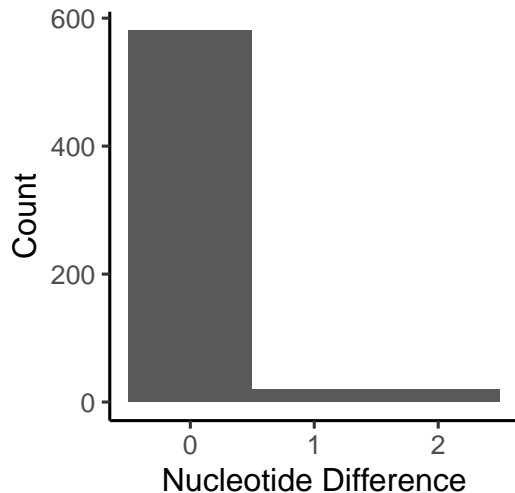
IGHV1-38-4*01

1 sequences assigned
No exact matches.



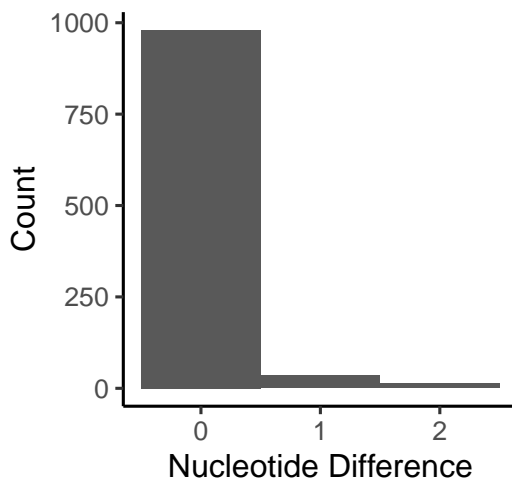
IGHV1-3*01_05

621 sequences assigned
581 (93.6%) exact matches, in which:
580 unique CDR3
7 unique J



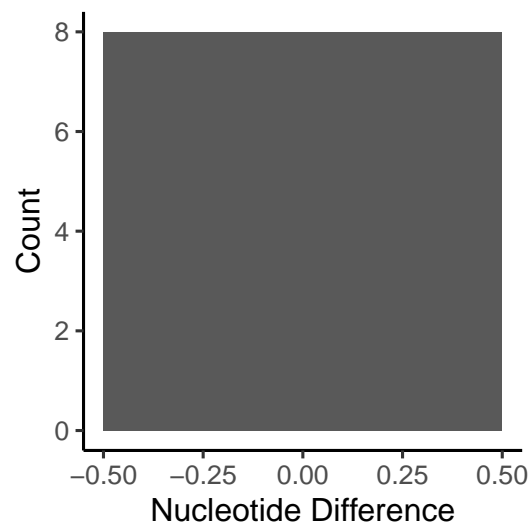
IGHV1-18*04

1028 sequences assigned
980 (95.3%) exact matches, in which:
977 unique CDR3
6 unique J



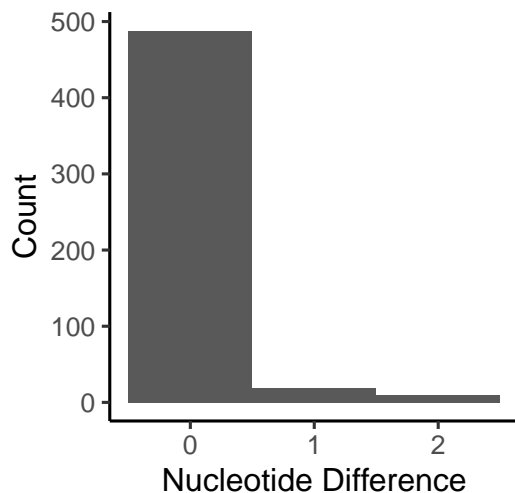
IGHV1-45*02

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



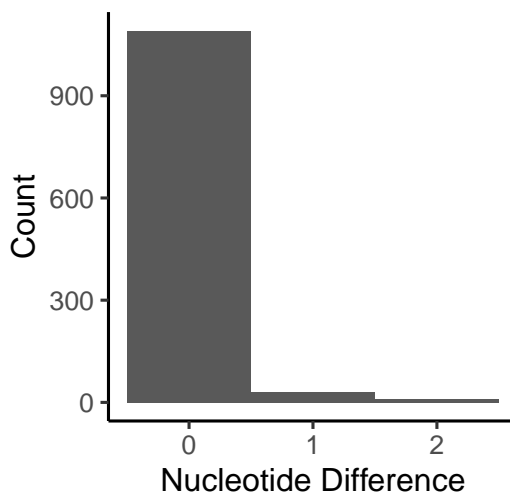
IGHV1-46*03

517 sequences assigned
488 (94.4%) exact matches, in which:
487 unique CDR3
7 unique J



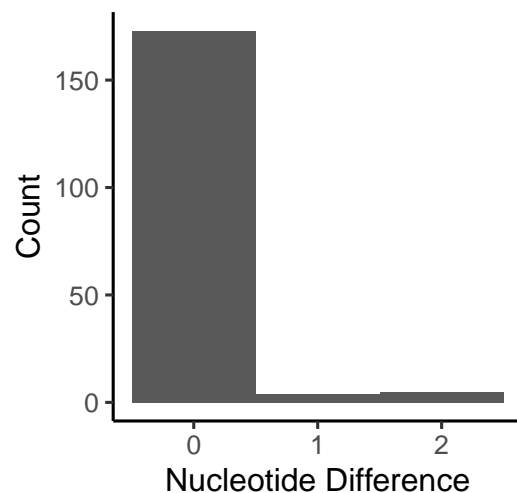
IGHV1-69*01_12_13

1130 sequences assigned
1091 (96.5%) exact matches, in which:
1090 unique CDR3
6 unique J



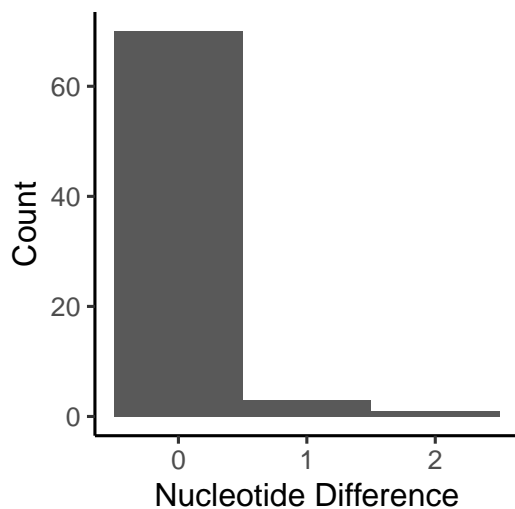
IGHV2-26*01

182 sequences assigned
173 (95.1%) exact matches, in which:
173 unique CDR3
7 unique J



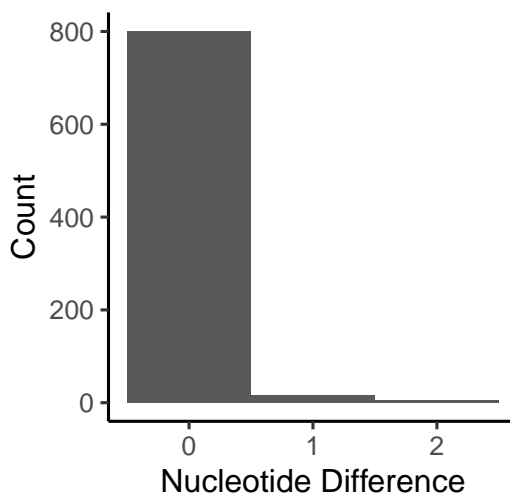
IGHV1-58*02

74 sequences assigned
70 (94.6%) exact matches, in which:
70 unique CDR3
6 unique J



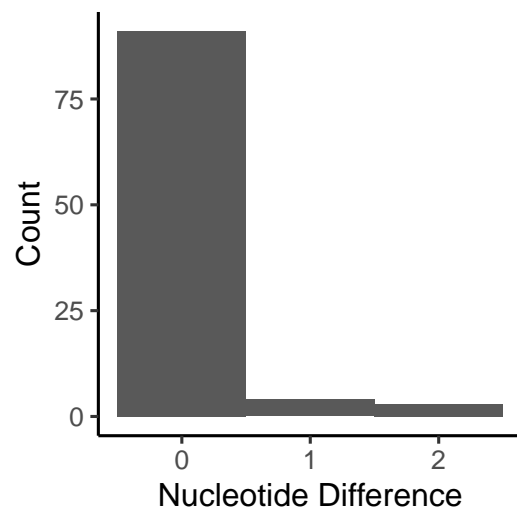
IGHV1-69*04_09

823 sequences assigned
801 (97.3%) exact matches, in which:
801 unique CDR3
7 unique J



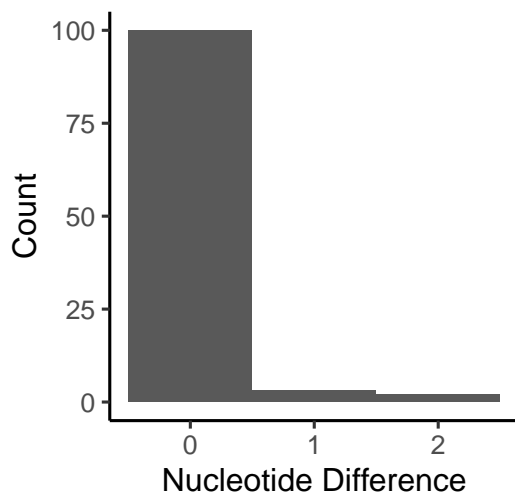
IGHV2-70*01

98 sequences assigned
91 (92.9%) exact matches, in which:
91 unique CDR3
5 unique J



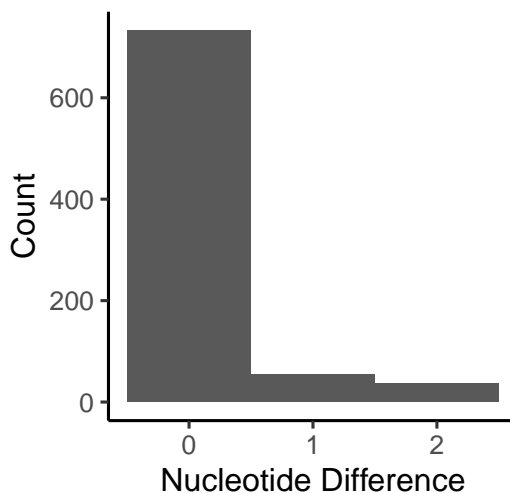
IGHV1-58*01_03

105 sequences assigned
100 (95.2%) exact matches, in which:
100 unique CDR3
6 unique J



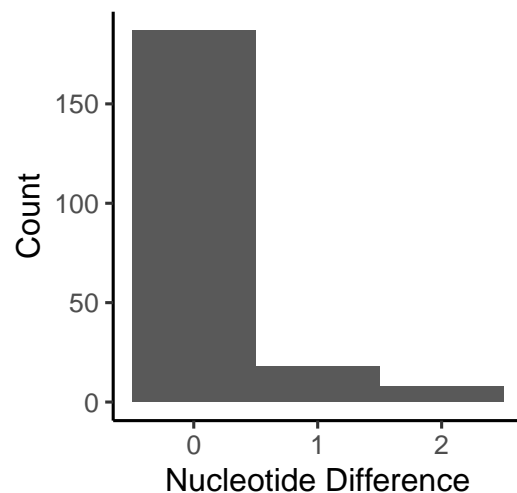
IGHV2-5*02

825 sequences assigned
733 (88.8%) exact matches, in which:
731 unique CDR3
7 unique J



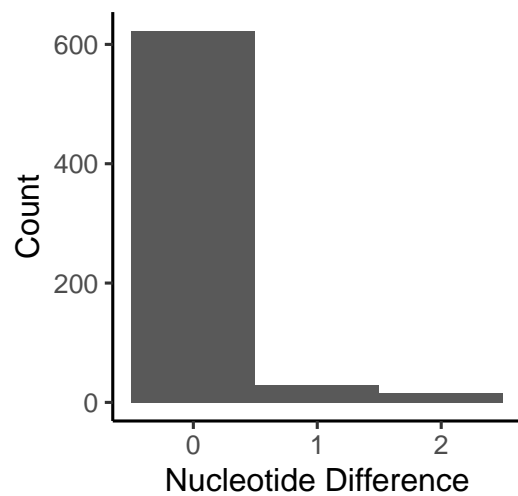
IGHV2-70*11_15

213 sequences assigned
187 (87.8%) exact matches, in which:
186 unique CDR3
6 unique J



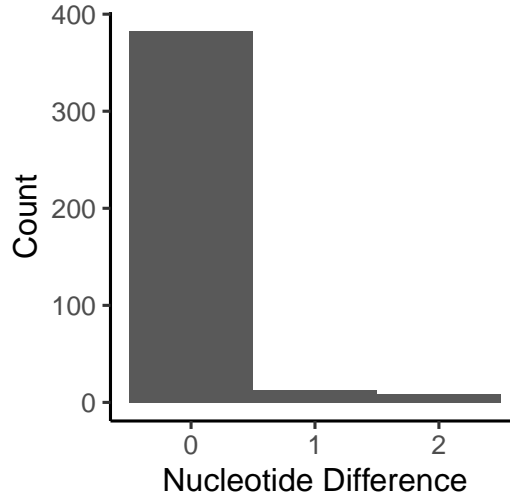
IGHV3-7*01

668 sequences assigned
623 (93.3%) exact matches, in which:
596 unique CDR3
7 unique J



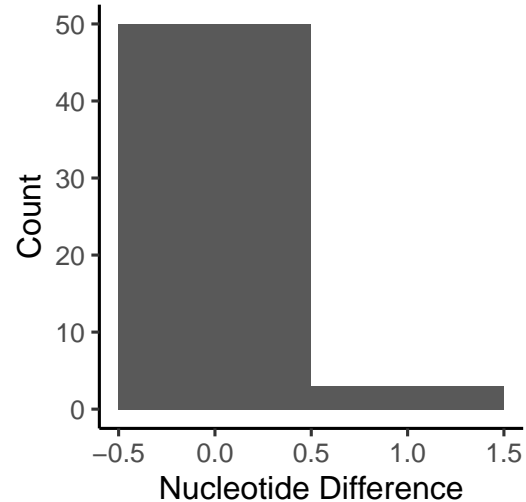
IGHV3-11*01

405 sequences assigned
383 (94.6%) exact matches, in which:
375 unique CDR3
6 unique J



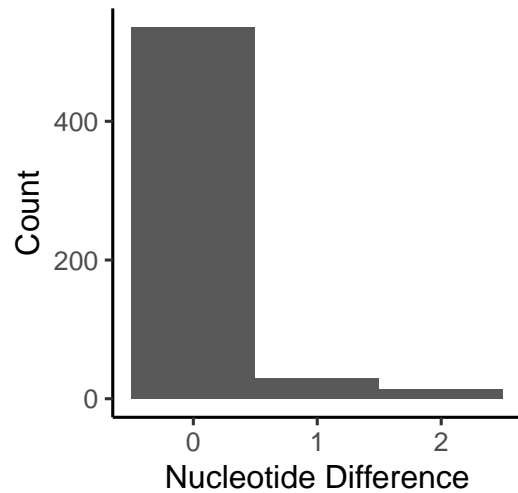
IGHV3-13*05

53 sequences assigned
50 (94.3%) exact matches, in which:
49 unique CDR3
4 unique J



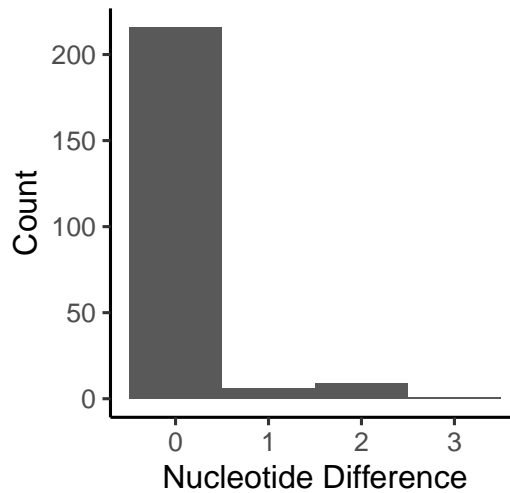
IGHV3-7*03

580 sequences assigned
536 (92.4%) exact matches, in which:
516 unique CDR3
7 unique J



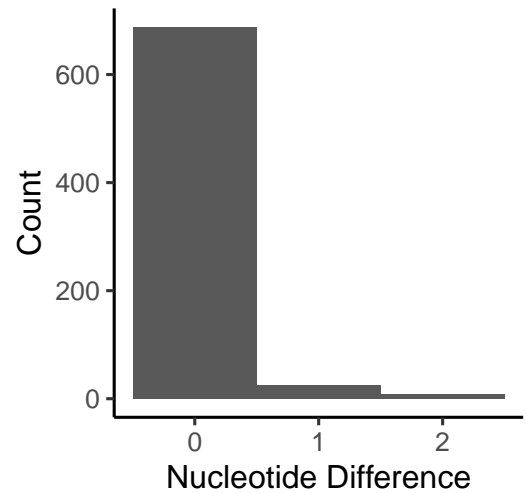
IGHV3-11*06

232 sequences assigned
216 (93.1%) exact matches, in which:
211 unique CDR3
7 unique J



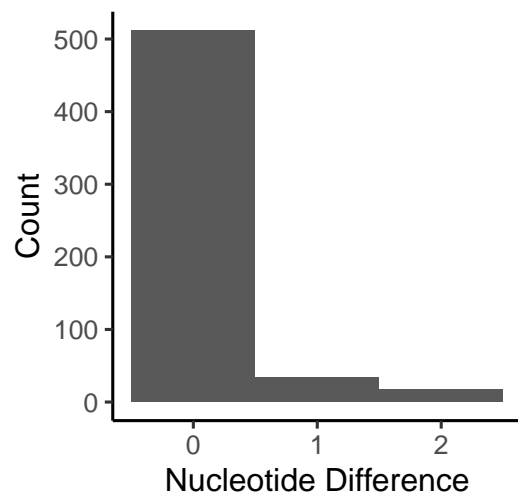
IGHV3-15*01_02

722 sequences assigned
688 (95.3%) exact matches, in which:
675 unique CDR3
7 unique J



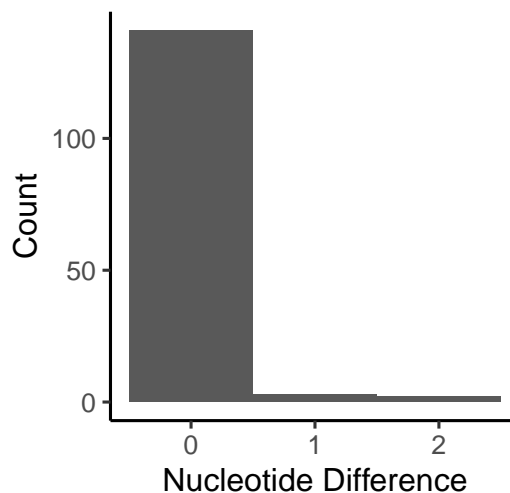
IGHV3-9*01

563 sequences assigned
512 (90.9%) exact matches, in which:
505 unique CDR3
7 unique J



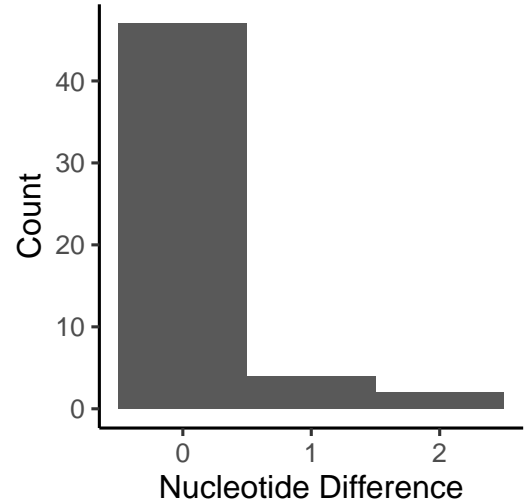
IGHV3-13*01

146 sequences assigned
141 (96.6%) exact matches, in which:
140 unique CDR3
7 unique J



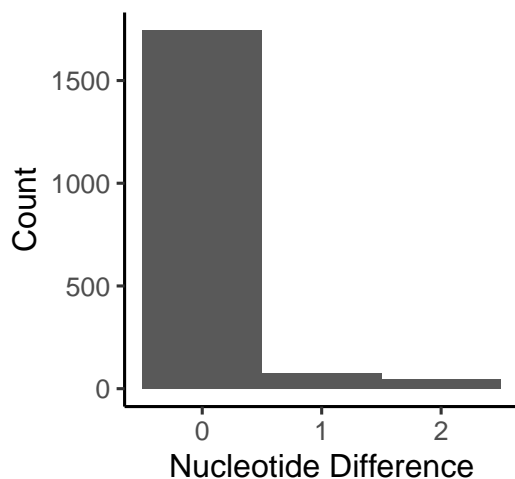
IGHV3-20*01_02

53 sequences assigned
47 (88.7%) exact matches, in which:
47 unique CDR3
5 unique J



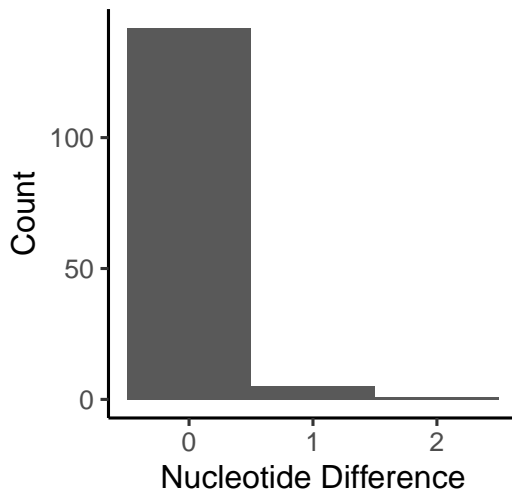
IGHV3-21*01_02

1865 sequences assigned
1744 (93.5%) exact matches, in which:
1670 unique CDR3
7 unique J



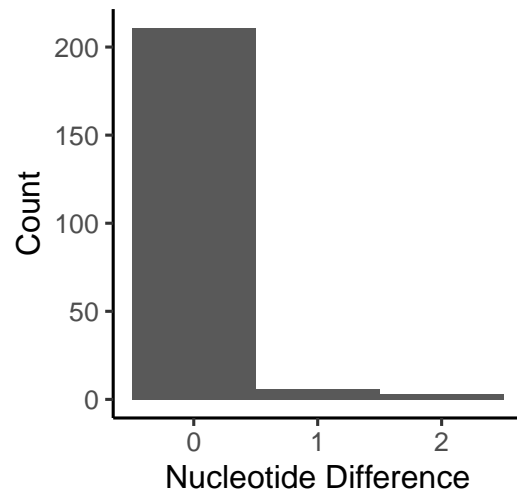
IGHV3-43*01

148 sequences assigned
142 (95.9%) exact matches, in which:
137 unique CDR3
7 unique J



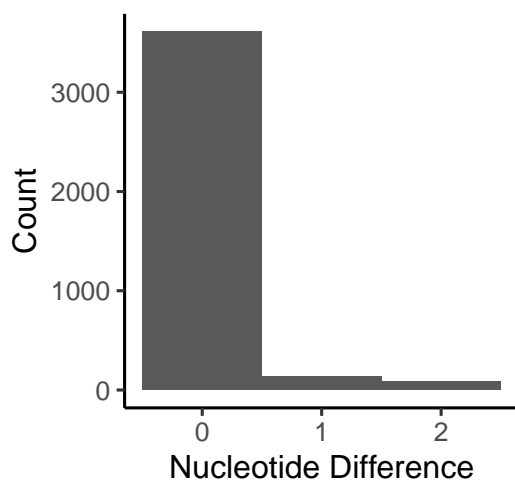
IGHV3-49*03_05

220 sequences assigned
211 (95.9%) exact matches, in which:
204 unique CDR3
7 unique J



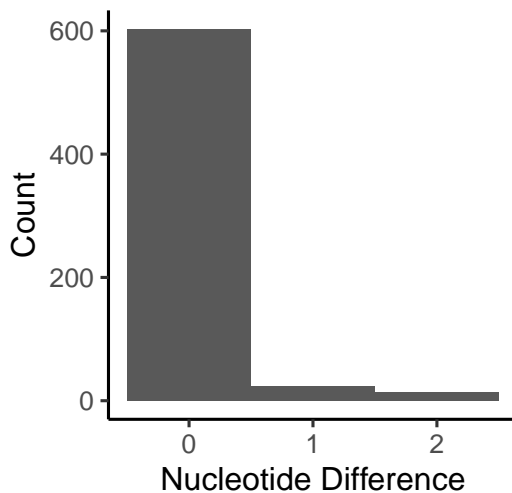
IGHV3-23*01_04

3827 sequences assigned
3610 (94.3%) exact matches, in which:
3463 unique CDR3
7 unique J



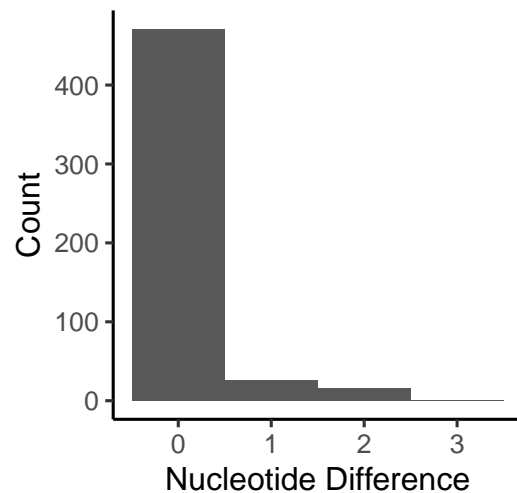
IGHV3-48*01

639 sequences assigned
603 (94.4%) exact matches, in which:
579 unique CDR3
6 unique J



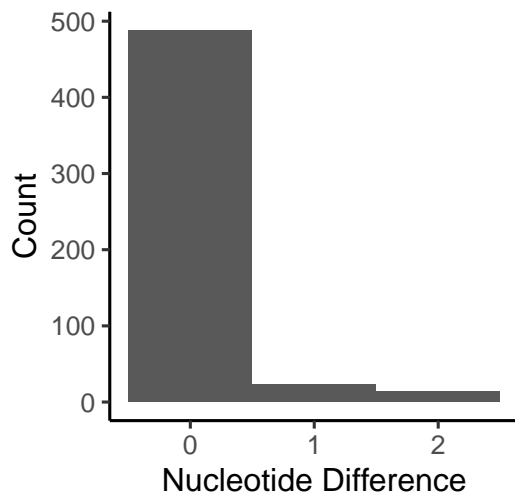
IGHV3-53*01_02

514 sequences assigned
471 (91.6%) exact matches, in which:
444 unique CDR3
7 unique J



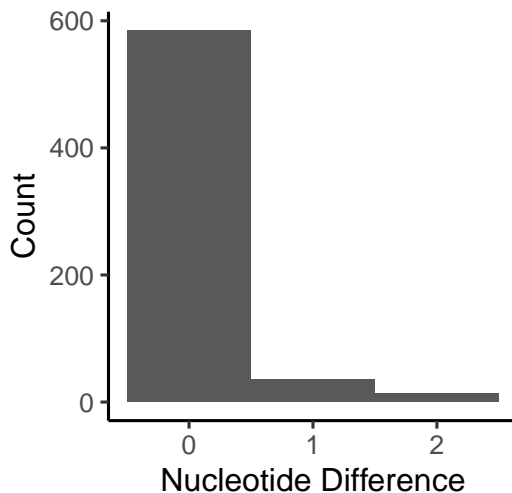
IGHV3-33*01

525 sequences assigned
488 (93%) exact matches, in which:
473 unique CDR3
6 unique J



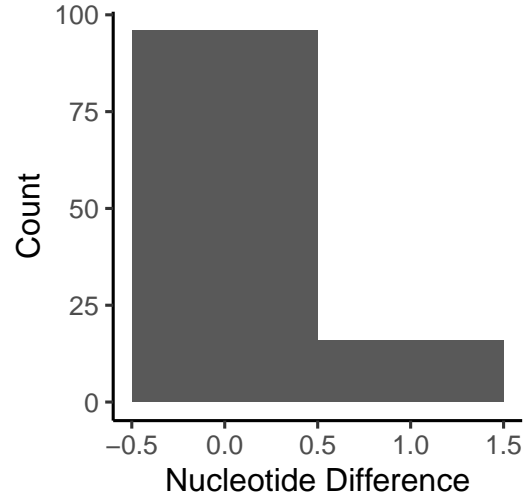
IGHV3-48*02

634 sequences assigned
585 (92.3%) exact matches, in which:
559 unique CDR3
6 unique J



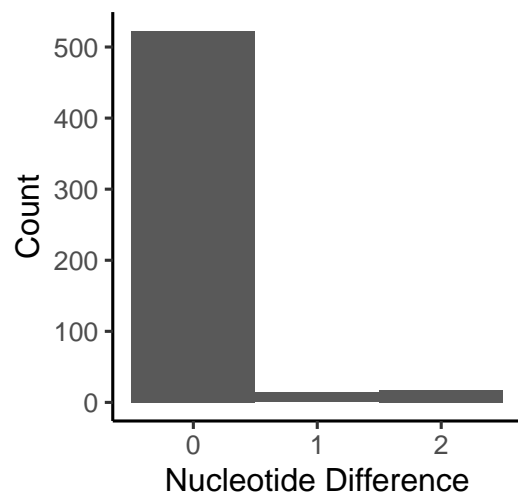
IGHV3-64*01

112 sequences assigned
96 (85.7%) exact matches, in which:
94 unique CDR3
6 unique J



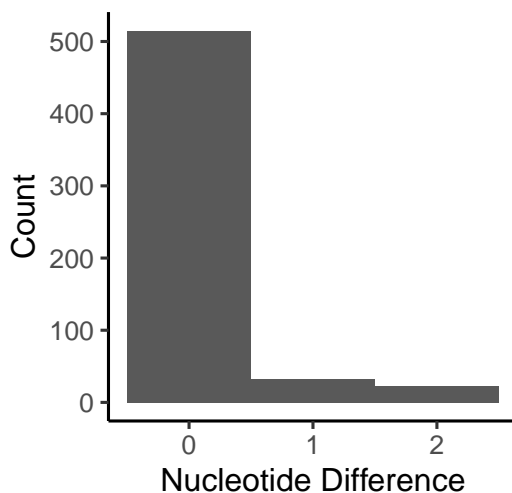
IGHV3–66*01

555 sequences assigned
523 (94.2%) exact matches, in which:
500 unique CDR3
6 unique J



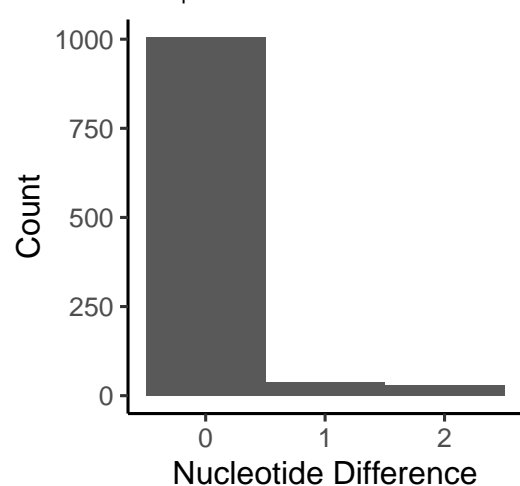
IGHV3–74*01_02

570 sequences assigned
515 (90.4%) exact matches, in which:
493 unique CDR3
7 unique J



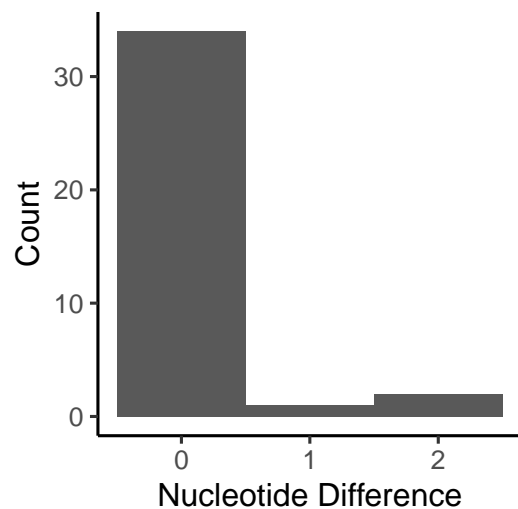
IGHV4–4*02_03

1073 sequences assigned
1005 (93.7%) exact matches, in which:
980 unique CDR3
7 unique J



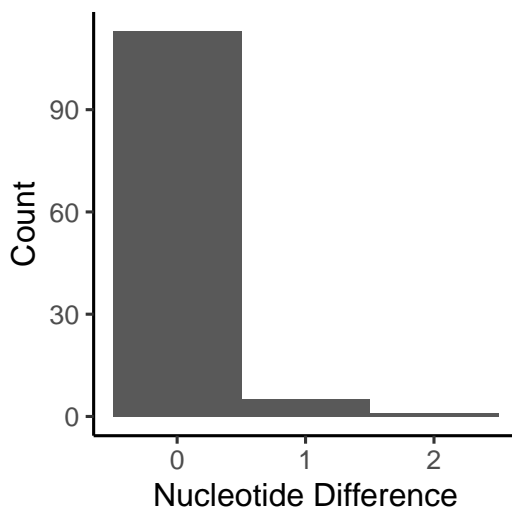
IGHV3–72*01

37 sequences assigned
34 (91.9%) exact matches, in which:
34 unique CDR3
6 unique J



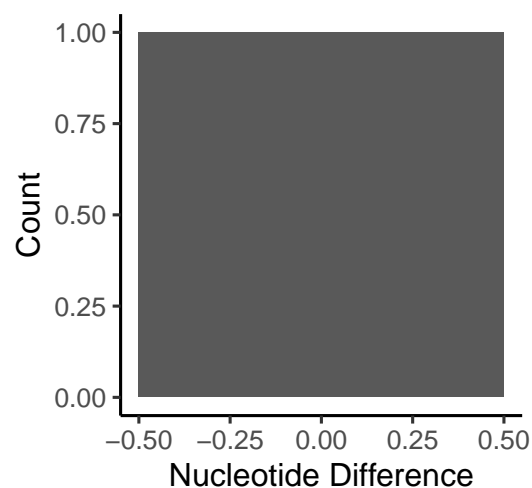
IGHV3–43D*03

119 sequences assigned
113 (95%) exact matches, in which:
106 unique CDR3
6 unique J



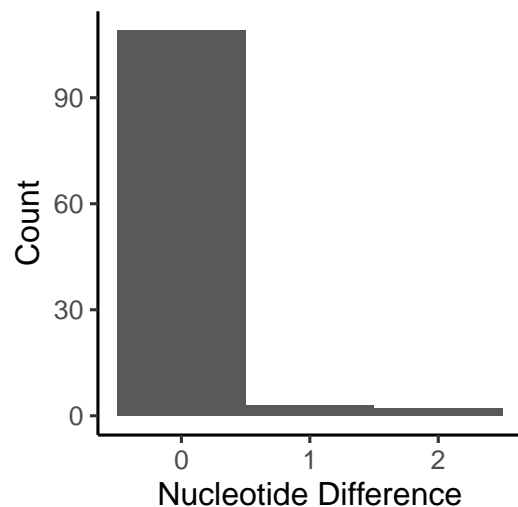
IGHV4–28*01_07

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



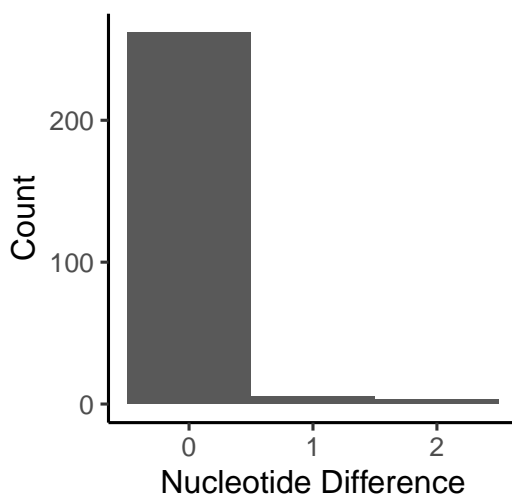
IGHV3–73*01_02

114 sequences assigned
109 (95.6%) exact matches, in which:
107 unique CDR3
6 unique J



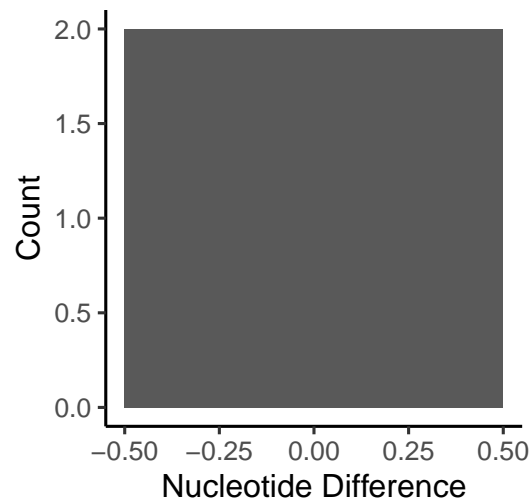
IGHV3–64D*06

270 sequences assigned
262 (97%) exact matches, in which:
257 unique CDR3
7 unique J



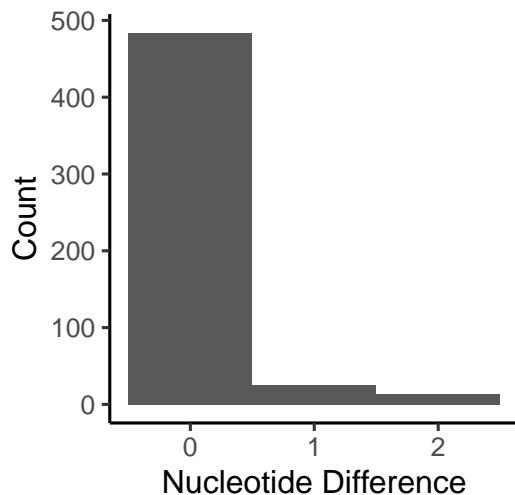
IGHV4–28*02_05

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



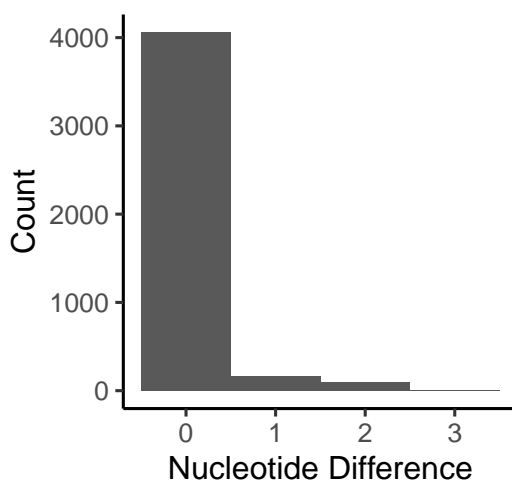
IGHV4-30-2*01

523 sequences assigned
484 (92.5%) exact matches, in which:
462 unique CDR3
6 unique J



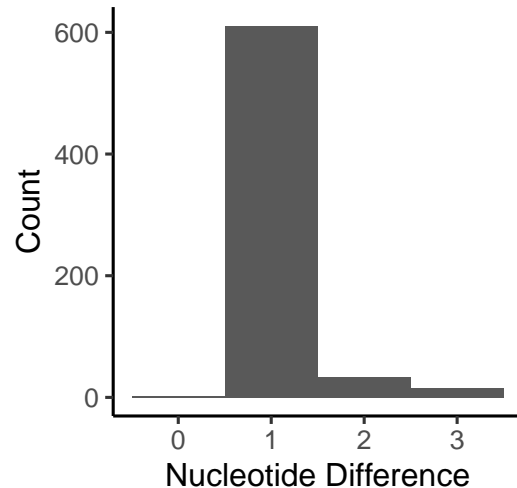
IGHV4-34*01_02

4319 sequences assigned
4059 (94%) exact matches, in which:
3894 unique CDR3
7 unique J



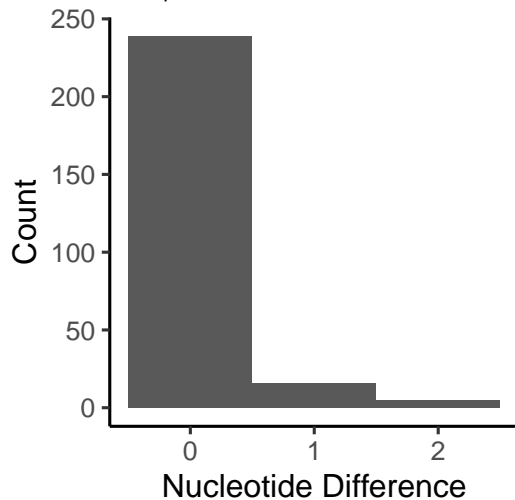
IGHV4-59*02

662 sequences assigned
2 (0.3%) exact matches, in which:
2 unique CDR3
2 unique J



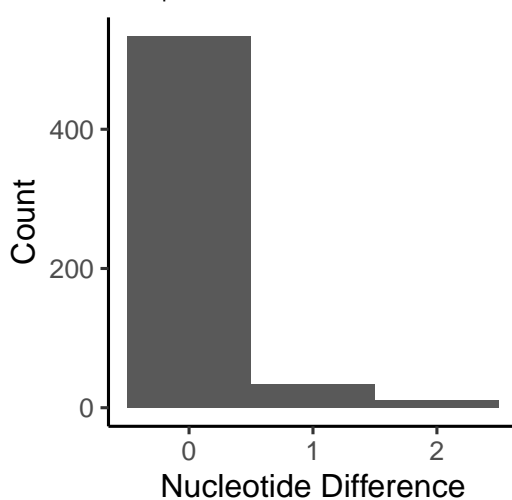
IGHV4-30-4*07

260 sequences assigned
239 (91.9%) exact matches, in which:
235 unique CDR3
5 unique J



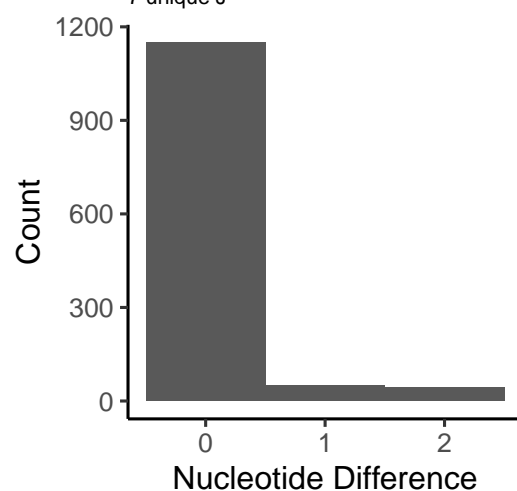
IGHV4-38-2*02

579 sequences assigned
534 (92.2%) exact matches, in which:
521 unique CDR3
6 unique J



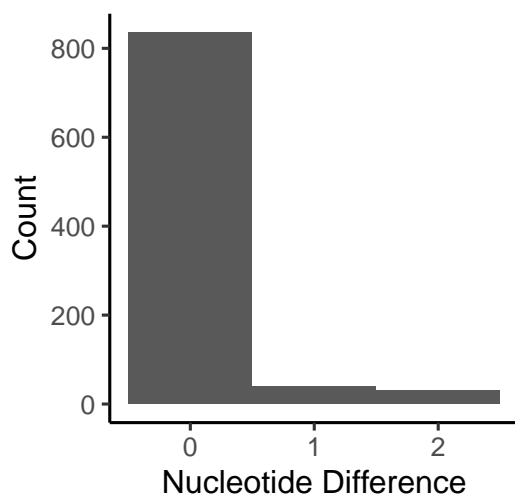
IGHV4-59*08

1244 sequences assigned
1149 (92.4%) exact matches, in which:
1105 unique CDR3
7 unique J



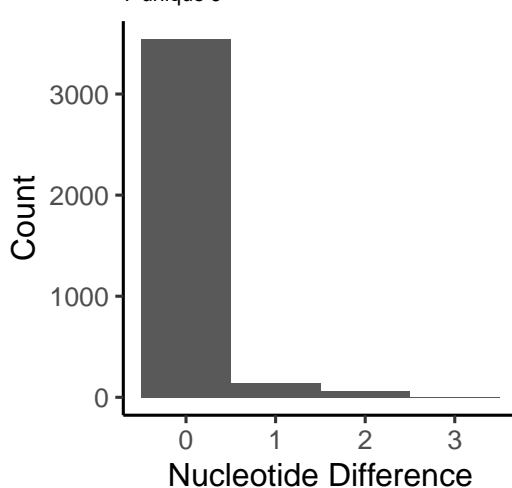
IGHV4-31*02

905 sequences assigned
836 (92.4%) exact matches, in which:
817 unique CDR3
7 unique J



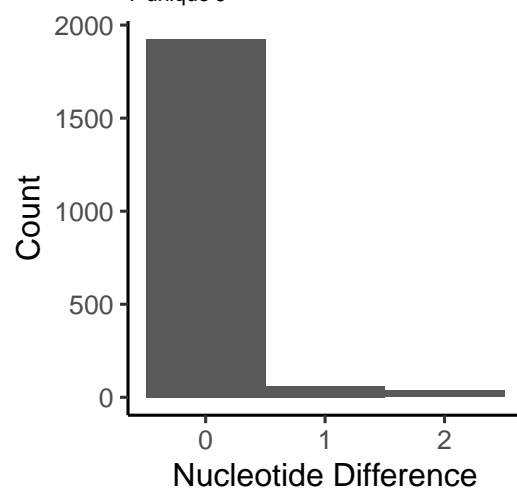
IGHV4-39*02_C258G

3751 sequences assigned
3544 (94.5%) exact matches, in which:
3440 unique CDR3
7 unique J



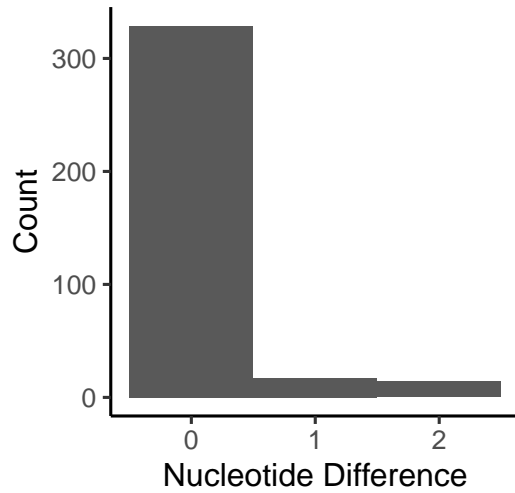
IGHV4-59*01_07

2024 sequences assigned
1925 (95.1%) exact matches, in which:
1862 unique CDR3
7 unique J



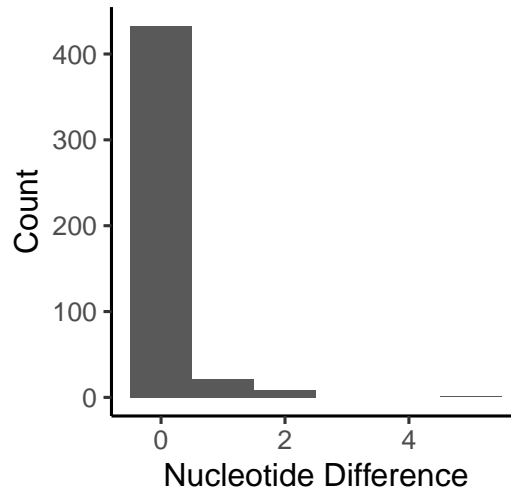
IGHV4-61*01

360 sequences assigned
329 (91.4%) exact matches, in which:
315 unique CDR3
7 unique J



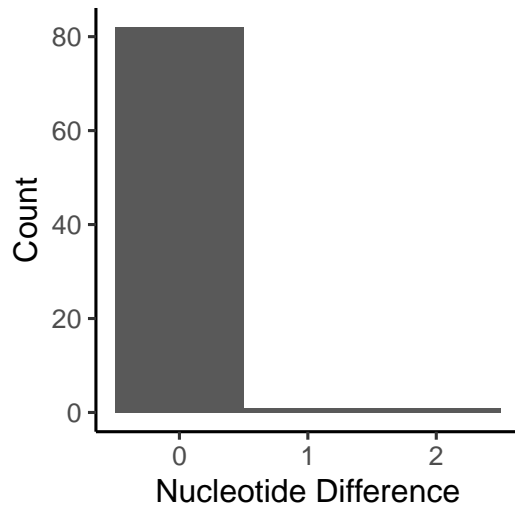
IGHV6-1*01_02

464 sequences assigned
433 (93.3%) exact matches, in which:
431 unique CDR3
7 unique J



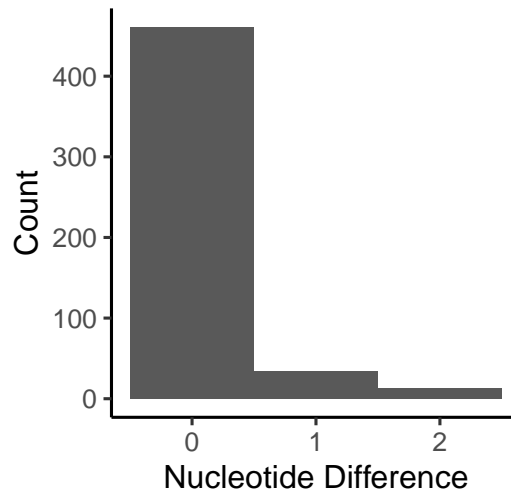
IGHV5-10-1*01_03

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



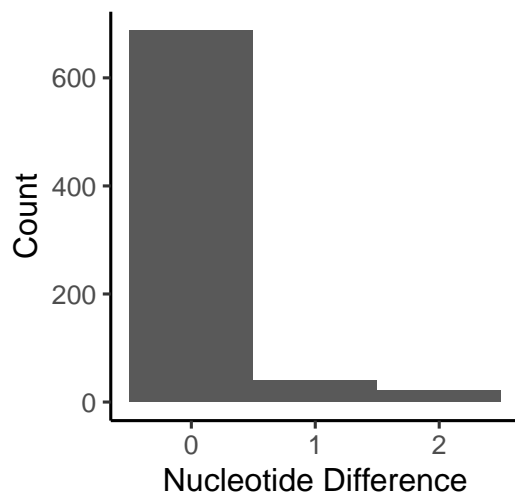
IGHV7-4-1*02

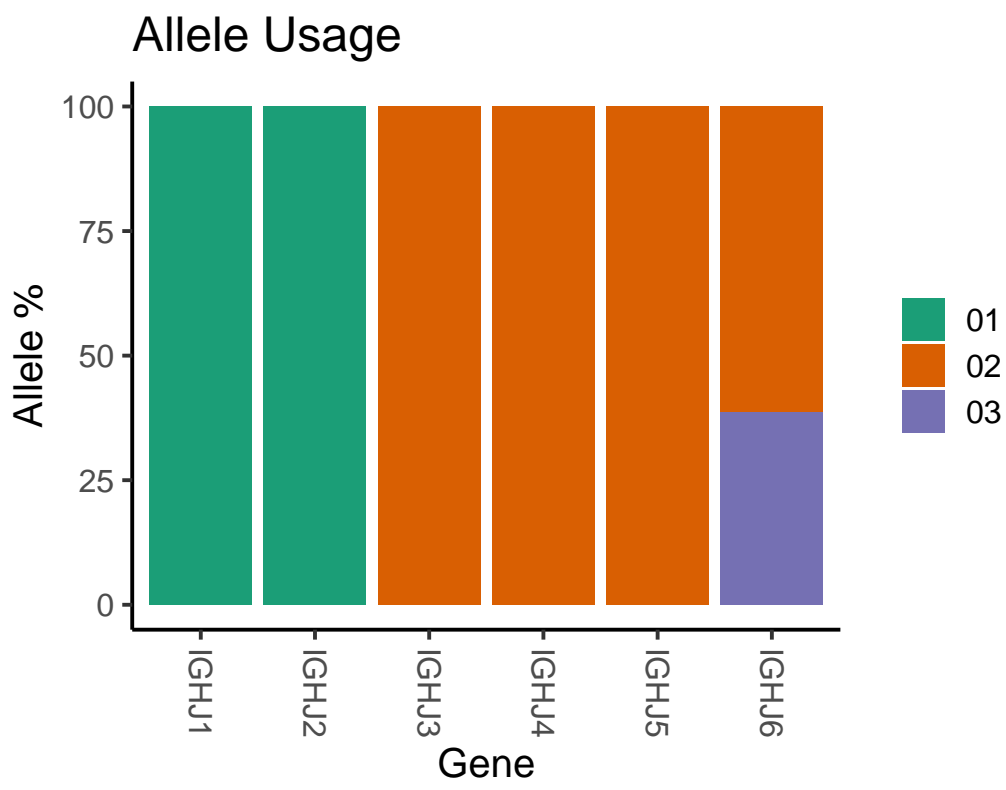
508 sequences assigned
461 (90.7%) exact matches, in which:
459 unique CDR3
7 unique J



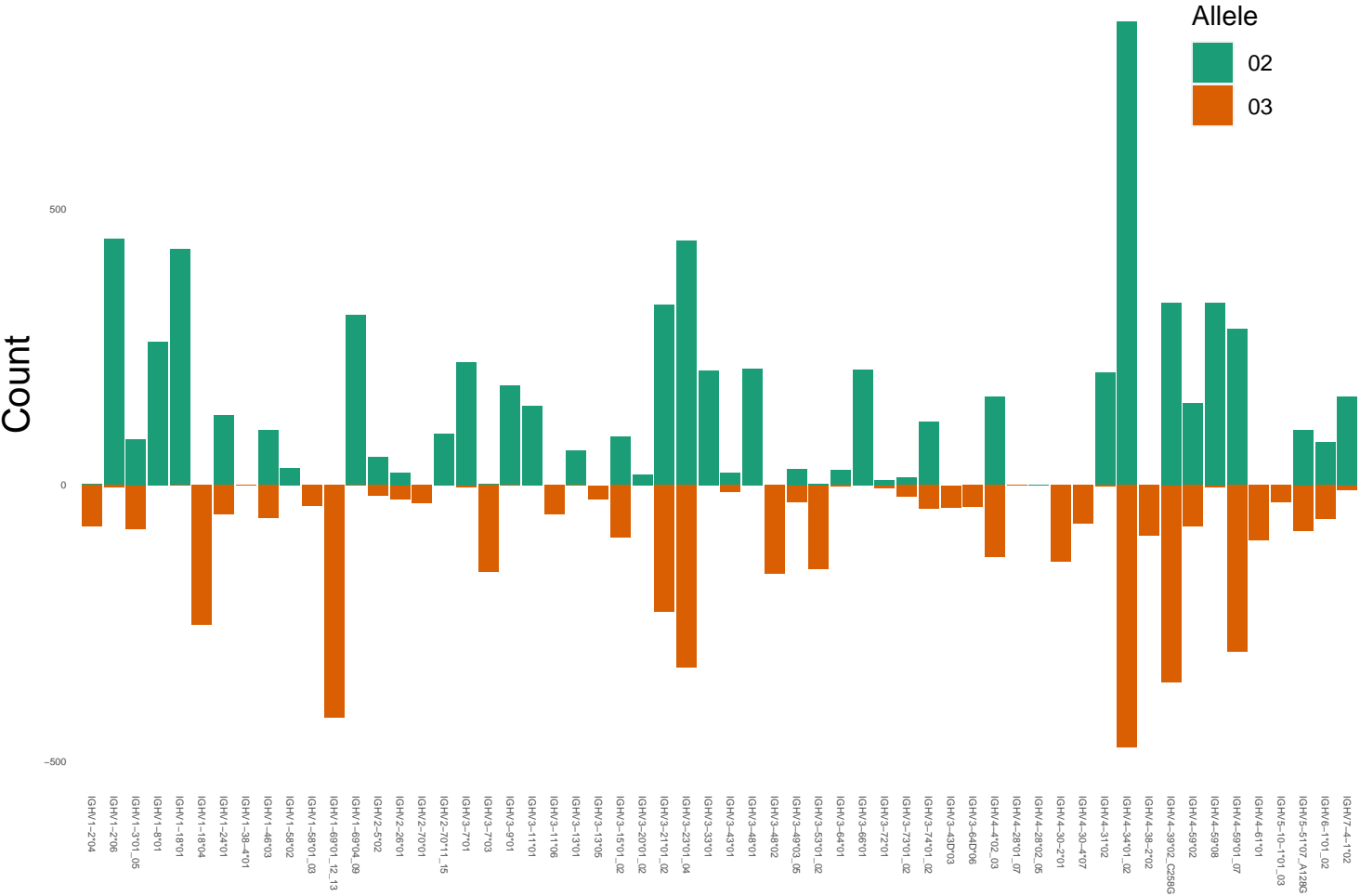
IGHV5-51*07_A128G

749 sequences assigned
688 (91.9%) exact matches, in which:
686 unique CDR3
7 unique J





Sequence Count byIGHJ6 allele usage



Warning – no inferred sequences found.