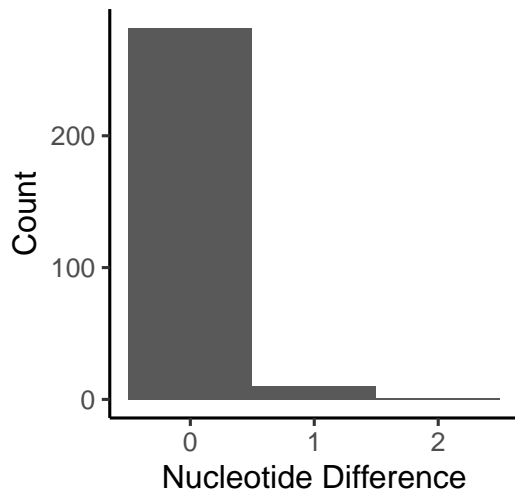


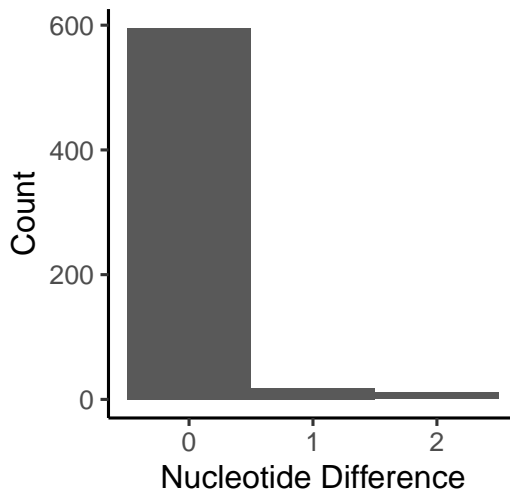
IGHV1–2*04

293 sequences assigned
282 (96.2%) exact matches, in which:
281 unique CDR3
7 unique J



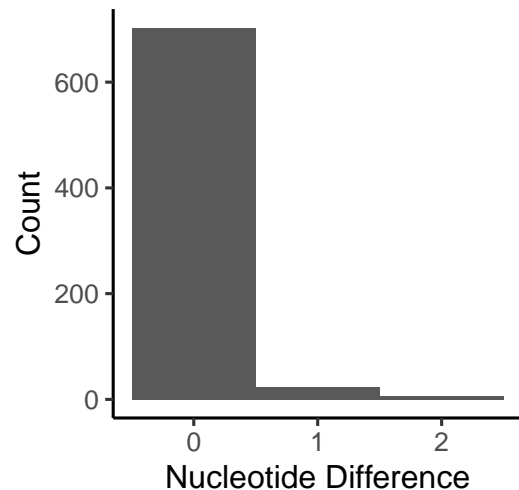
IGHV1–8*01

625 sequences assigned
596 (95.4%) exact matches, in which:
596 unique CDR3
6 unique J



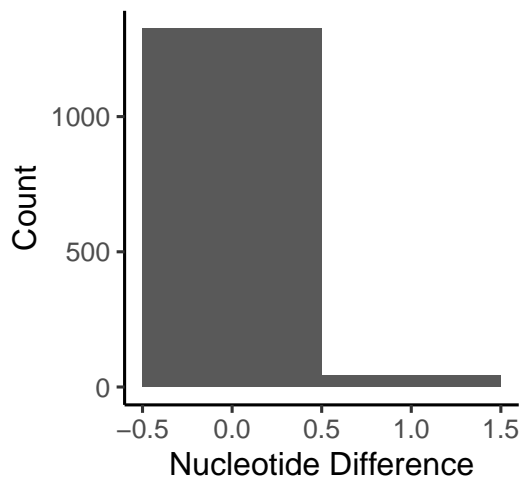
IGHV1–24*01

734 sequences assigned
703 (95.8%) exact matches, in which:
699 unique CDR3
7 unique J



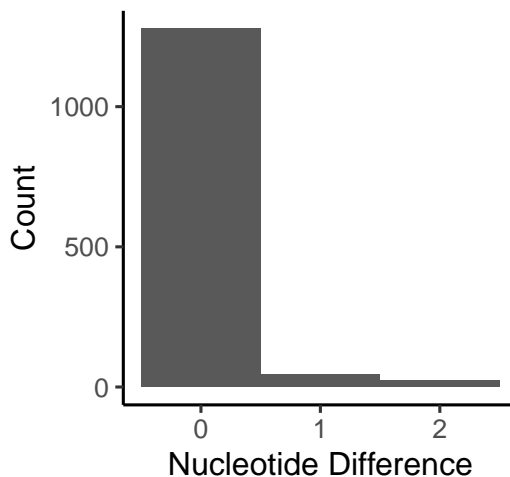
IGHV1–2*06

1366 sequences assigned
1325 (97%) exact matches, in which:
1322 unique CDR3
7 unique J



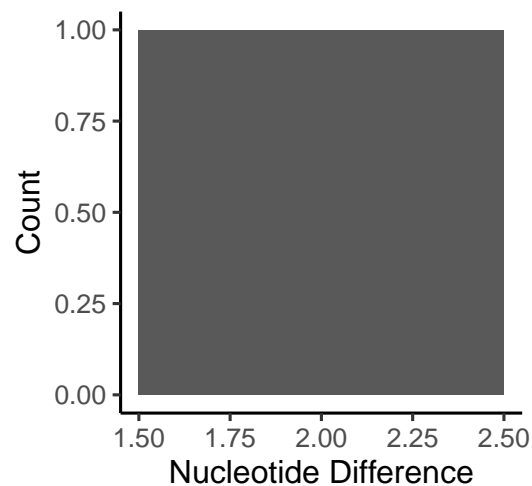
IGHV1–18*01

1344 sequences assigned
1278 (95.1%) exact matches, in which:
1272 unique CDR3
7 unique J



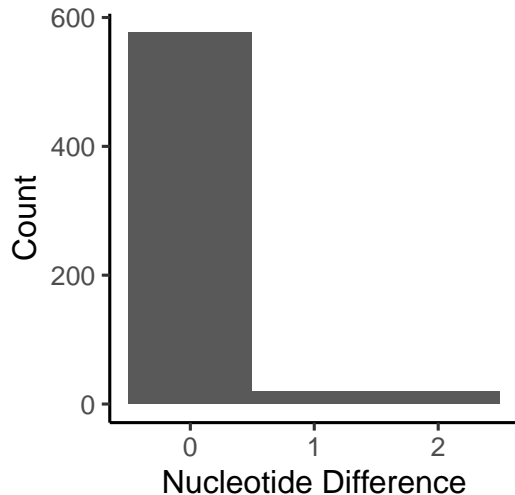
IGHV1–38–4*01

1 sequences assigned
No exact matches.



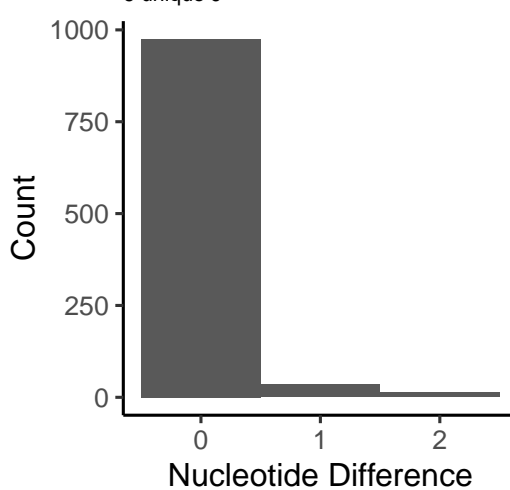
IGHV1–3*01_05

616 sequences assigned
577 (93.7%) exact matches, in which:
576 unique CDR3
7 unique J



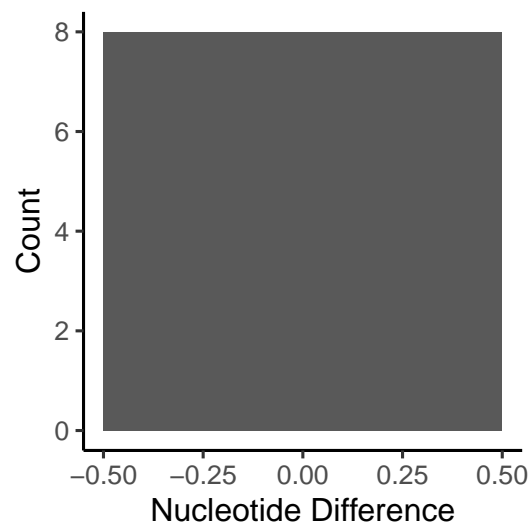
IGHV1–18*04

1023 sequences assigned
975 (95.3%) exact matches, in which:
972 unique CDR3
6 unique J



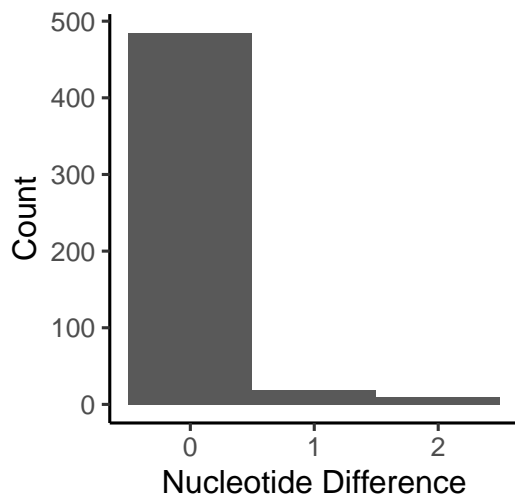
IGHV1–45*02

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



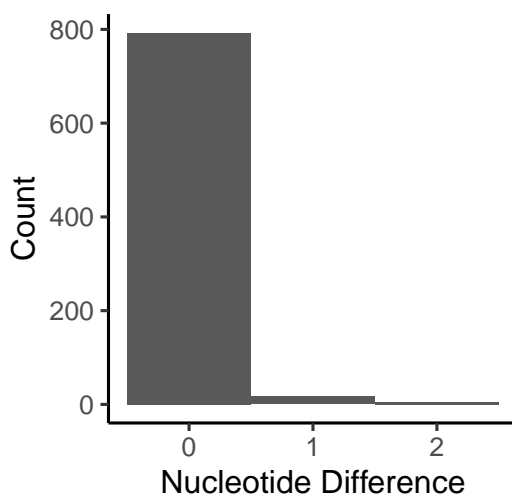
IGHV1-46*03

514 sequences assigned
485 (94.4%) exact matches, in which:
484 unique CDR3
7 unique J



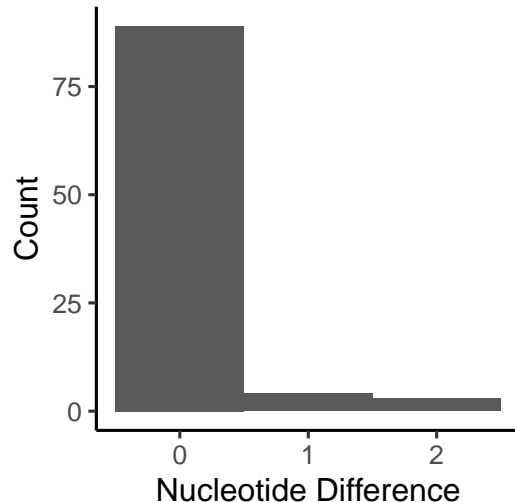
IGHV1-69*04_09

815 sequences assigned
793 (97.3%) exact matches, in which:
793 unique CDR3
7 unique J



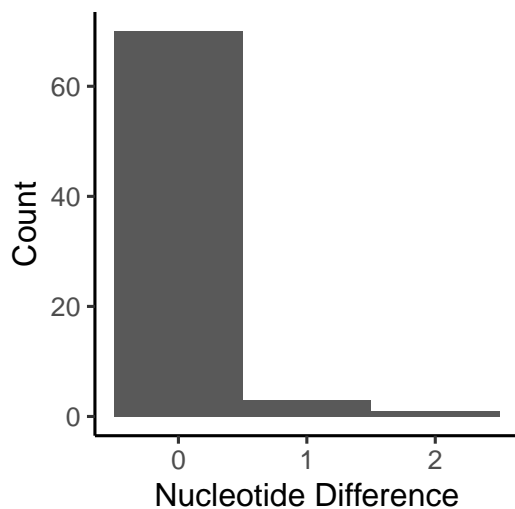
IGHV2-70*01

96 sequences assigned
89 (92.7%) exact matches, in which:
89 unique CDR3
5 unique J



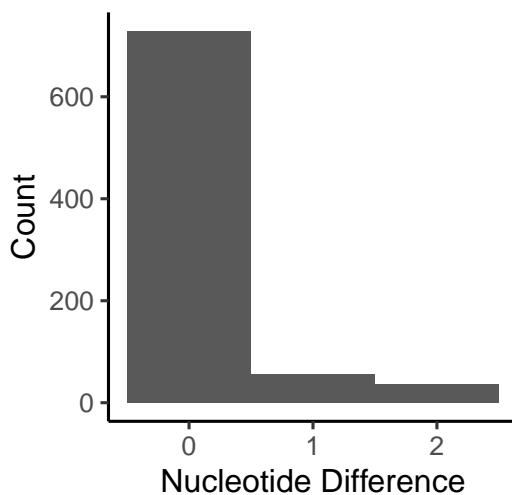
IGHV1-58*02

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



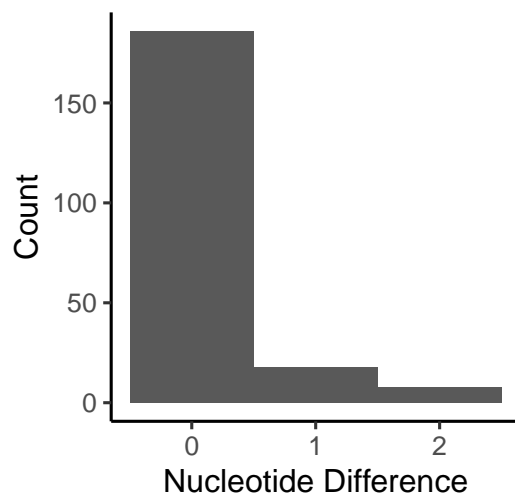
IGHV2-5*02

821 sequences assigned
729 (88.8%) exact matches, in which:
727 unique CDR3
7 unique J



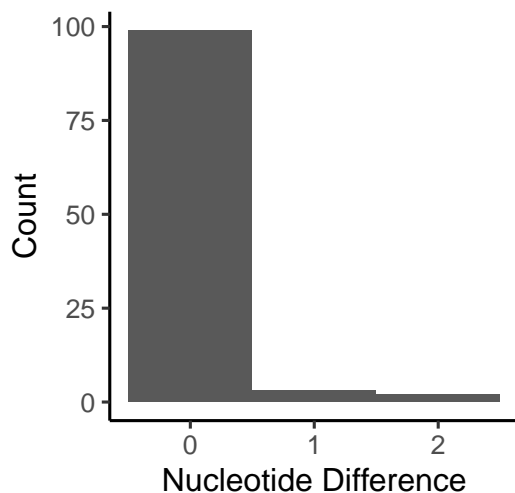
IGHV2-70*11_15

212 sequences assigned
186 (87.7%) exact matches, in which:
185 unique CDR3
6 unique J



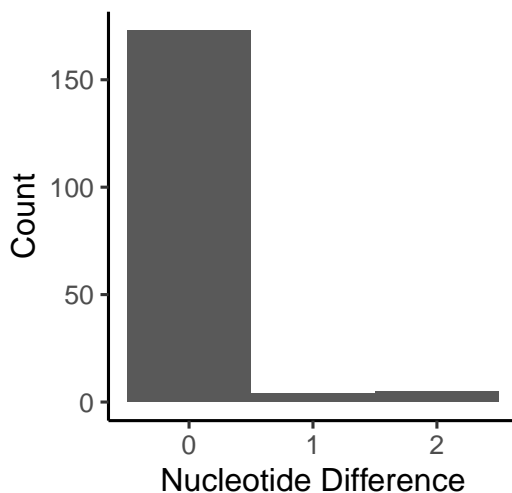
IGHV1-58*01_03

104 sequences assigned
99 (95.2%) exact matches, in which:
99 unique CDR3
6 unique J



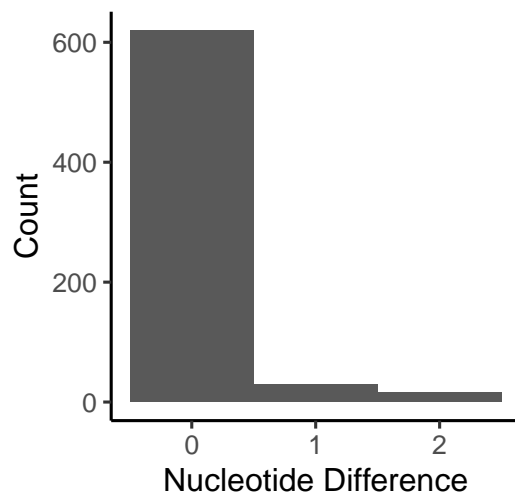
IGHV2-26*01

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



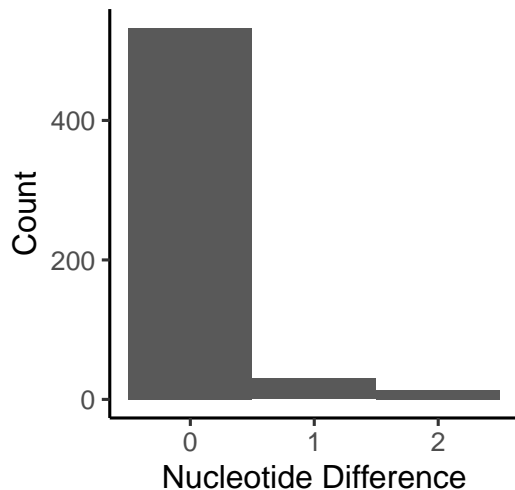
IGHV3-7*01

665 sequences assigned
620 (93.2%) exact matches, in which:
593 unique CDR3
7 unique J



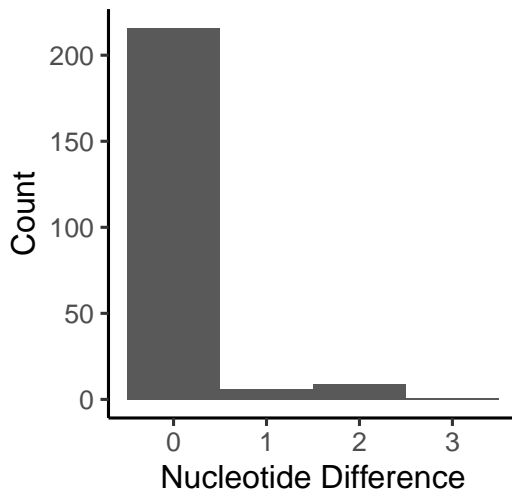
IGHV3-7*03

577 sequences assigned
533 (92.4%) exact matches, in which:
514 unique CDR3
7 unique J



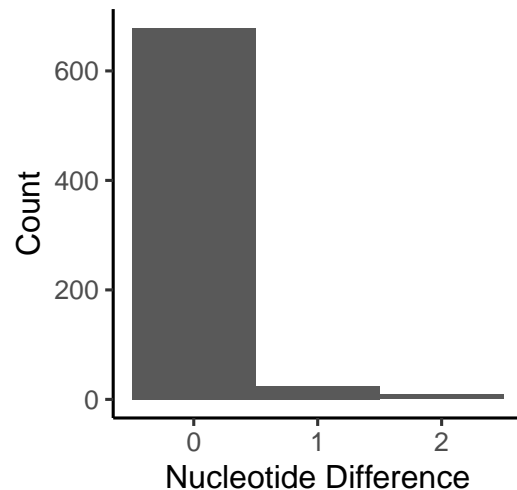
IGHV3-11*06

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



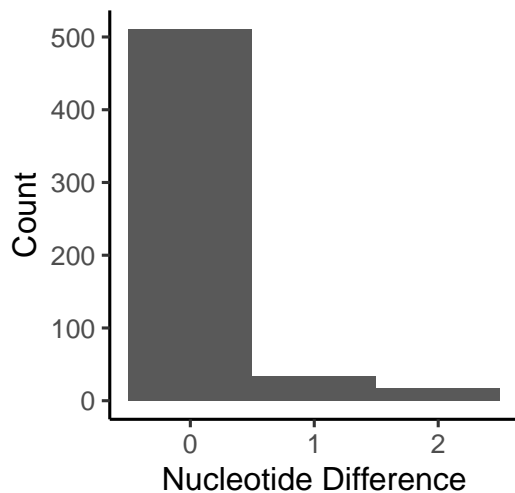
IGHV3-15*01_02

713 sequences assigned
679 (95.2%) exact matches, in which:
666 unique CDR3
7 unique J



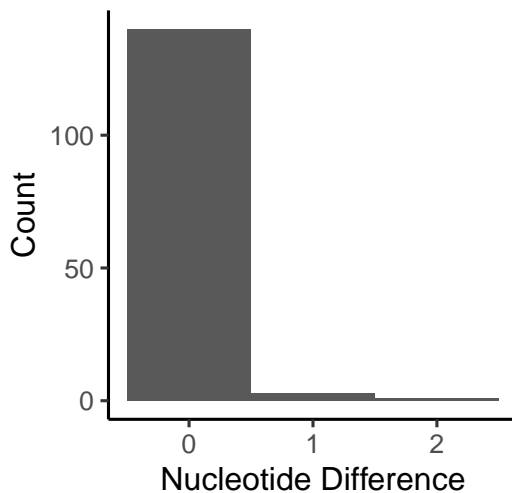
IGHV3-9*01

562 sequences assigned
511 (90.9%) exact matches, in which:
504 unique CDR3
7 unique J



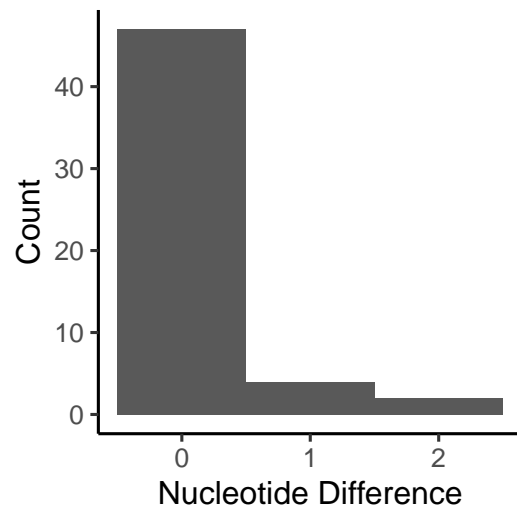
IGHV3-13*01

144 sequences assigned
140 (97.2%) exact matches, in which:
139 unique CDR3
7 unique J



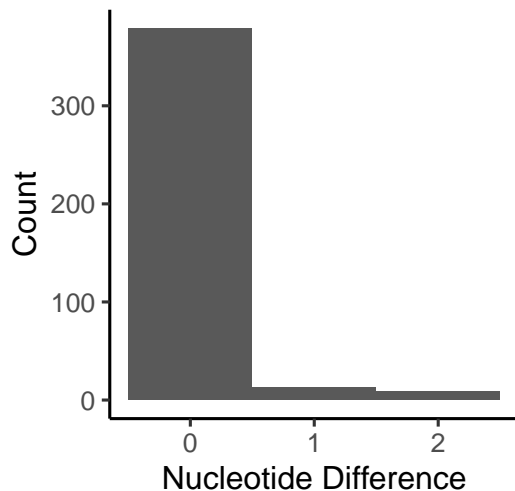
IGHV3-20*01_02

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



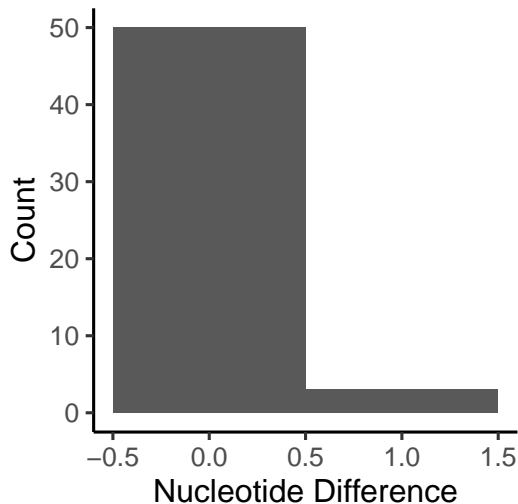
IGHV3-11*01

401 sequences assigned
379 (94.5%) exact matches, in which:
371 unique CDR3
6 unique J



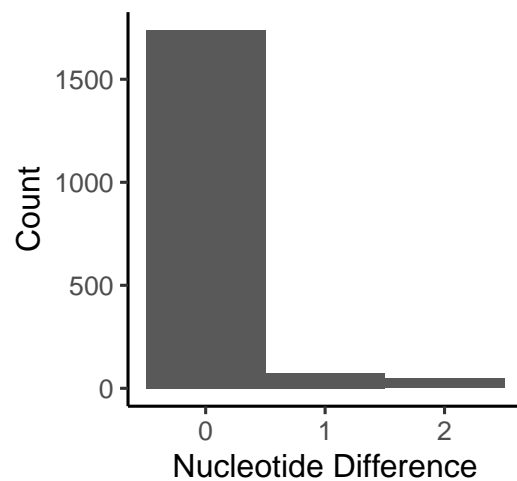
IGHV3-13*05

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



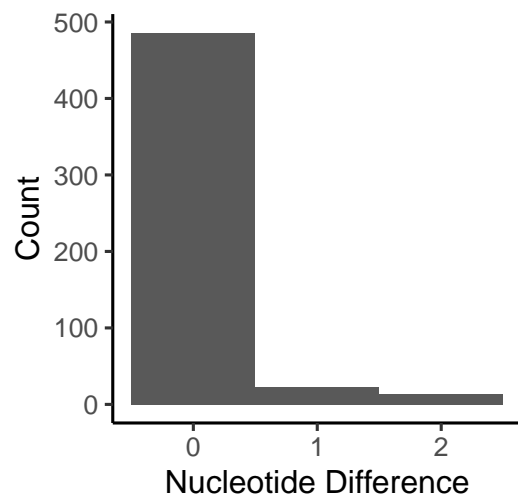
IGHV3-21*01_02

1860 sequences assigned
1739 (93.5%) exact matches, in which:
1666 unique CDR3
7 unique J



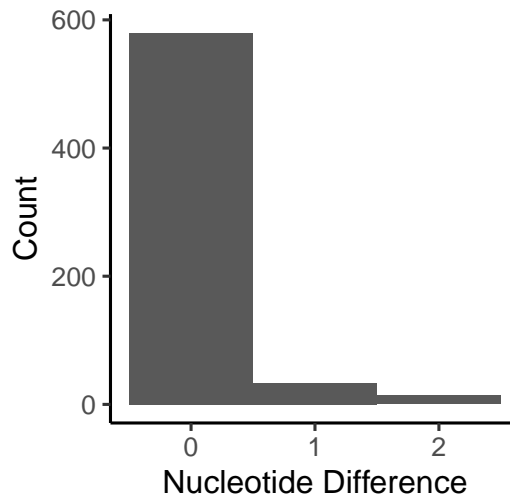
IGHV3–33*01

523 sequences assigned
486 (92.9%) exact matches, in which:
471 unique CDR3
6 unique J



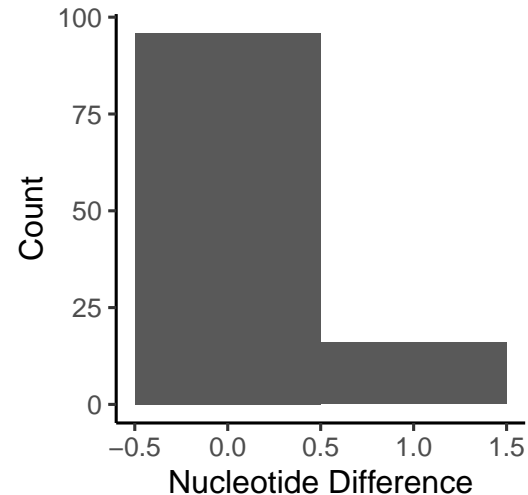
IGHV3–48*02

627 sequences assigned
580 (92.5%) exact matches, in which:
554 unique CDR3
6 unique J



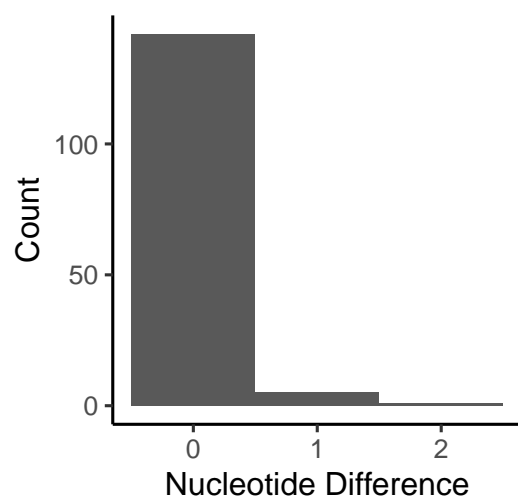
IGHV3–64*01

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



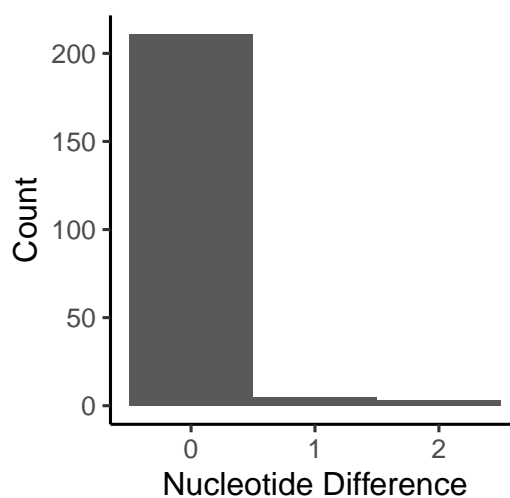
IGHV3–43*01

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



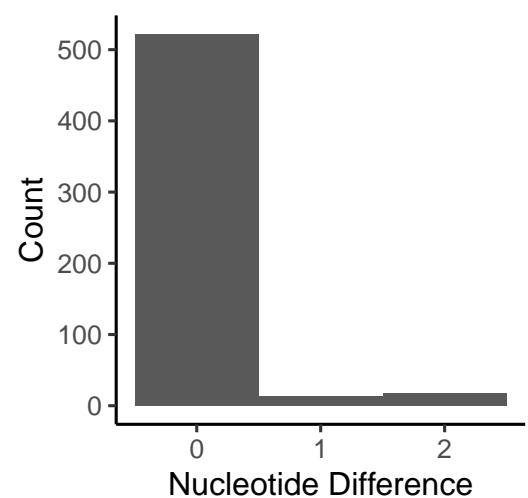
IGHV3–49*03_05

219 sequences assigned
211 (96.3%) exact matches, in which:
204 unique CDR3
7 unique J



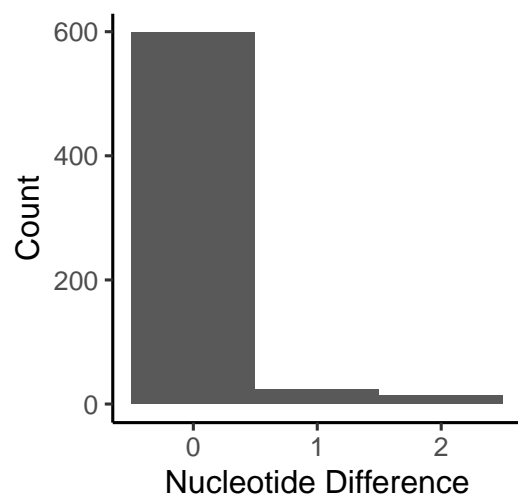
IGHV3–66*01

554 sequences assigned
522 (94.2%) exact matches, in which:
499 unique CDR3
6 unique J



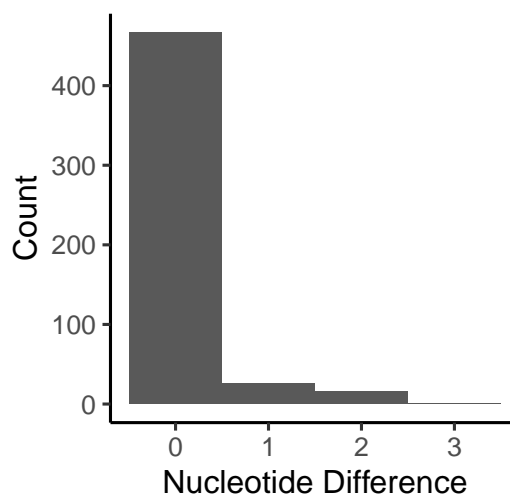
IGHV3–48*01

635 sequences assigned
599 (94.3%) exact matches, in which:
575 unique CDR3
6 unique J



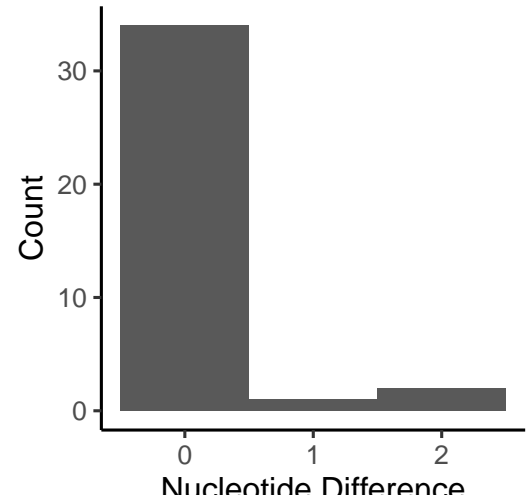
IGHV3–53*01_02

510 sequences assigned
467 (91.6%) exact matches, in which:
442 unique CDR3
7 unique J



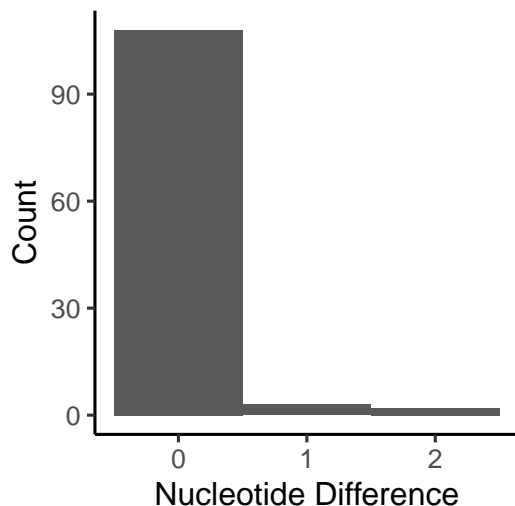
IGHV3–72*01

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



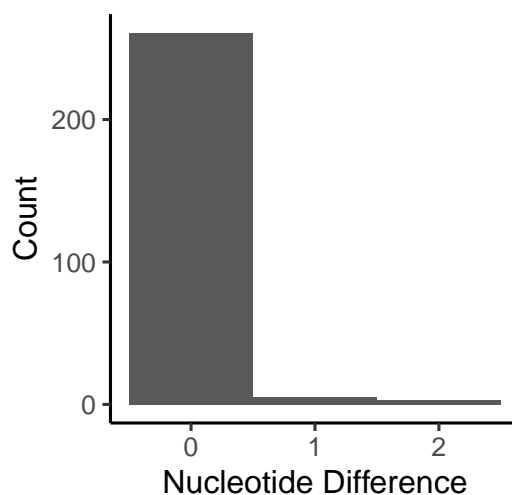
IGHV3-73*01_02

113 sequences assigned
108 (95.6%) exact matches, in which:
106 unique CDR3
6 unique J



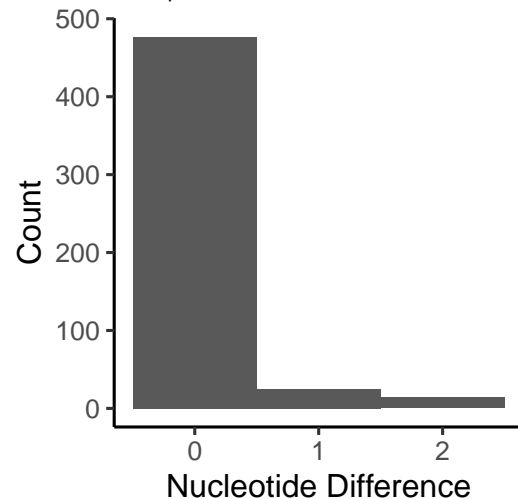
IGHV3-64D*06

269 sequences assigned
261 (97%) exact matches, in which:
256 unique CDR3
7 unique J



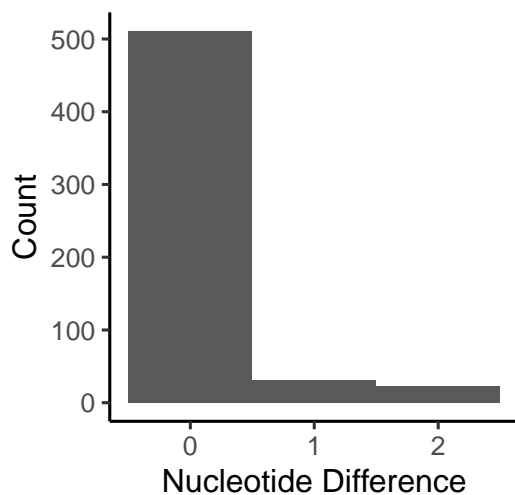
IGHV4-30-2*01

516 sequences assigned
477 (92.4%) exact matches, in which:
456 unique CDR3
6 unique J



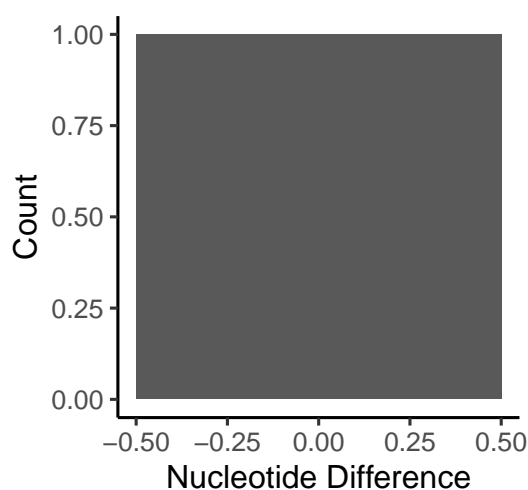
IGHV3-74*01_02

565 sequences assigned
511 (90.4%) exact matches, in which:
489 unique CDR3
7 unique J



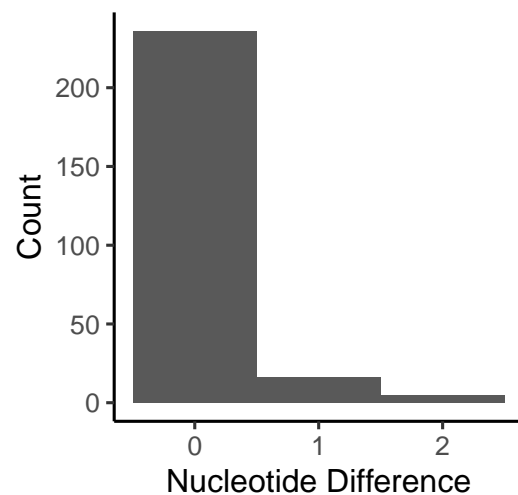
IGHV4-28*01_07

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



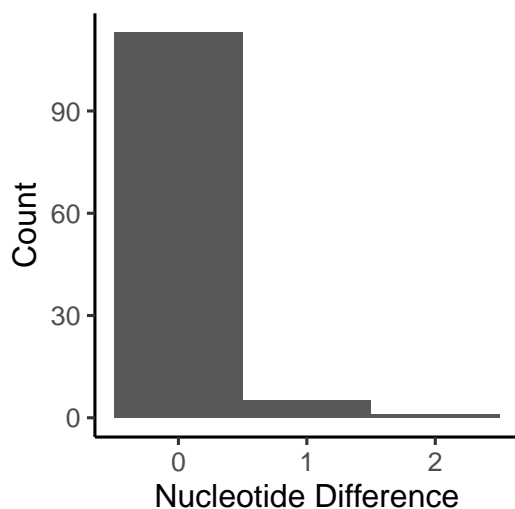
IGHV4-30-4*07

257 sequences assigned
236 (91.8%) exact matches, in which:
234 unique CDR3
5 unique J



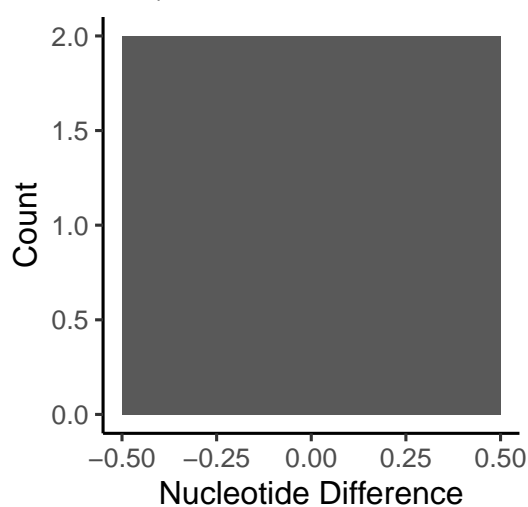
IGHV3-43D*03

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



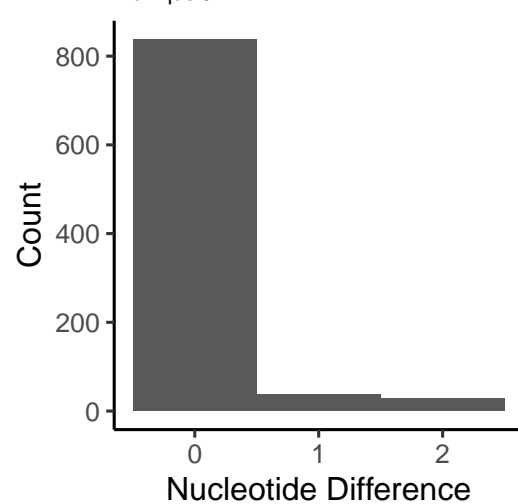
IGHV4-28*02_05

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



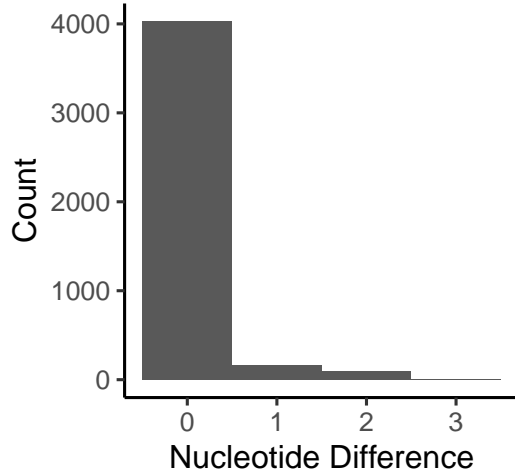
IGHV4-31*03_04

904 sequences assigned
838 (92.7%) exact matches, in which:
811 unique CDR3
7 unique J



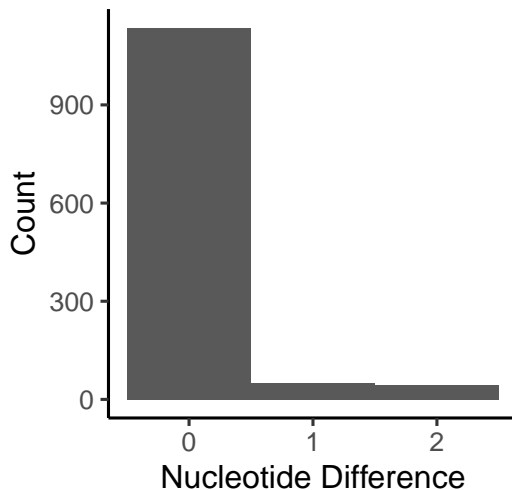
IGHV4-34*01_02

4287 sequences assigned
4028 (94%) exact matches, in which:
3867 unique CDR3
7 unique J



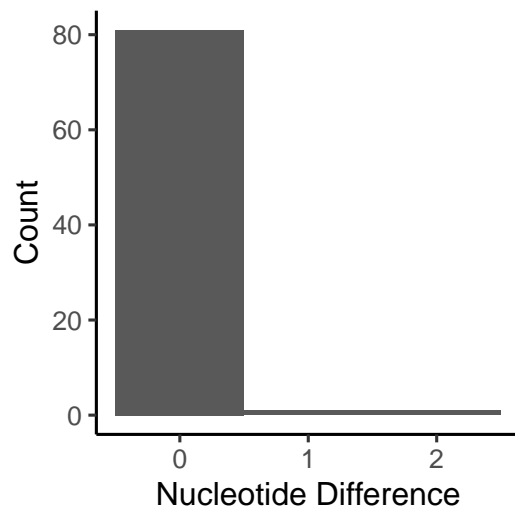
IGHV4-59*08

1230 sequences assigned
1136 (92.4%) exact matches, in which:
1093 unique CDR3
7 unique J



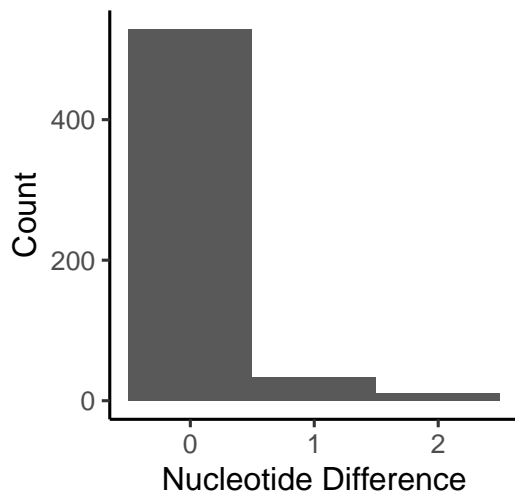
IGHV5-10-1*01_03

83 sequences assigned
81 (97.6%) exact matches, in which:
81 unique CDR3
5 unique J



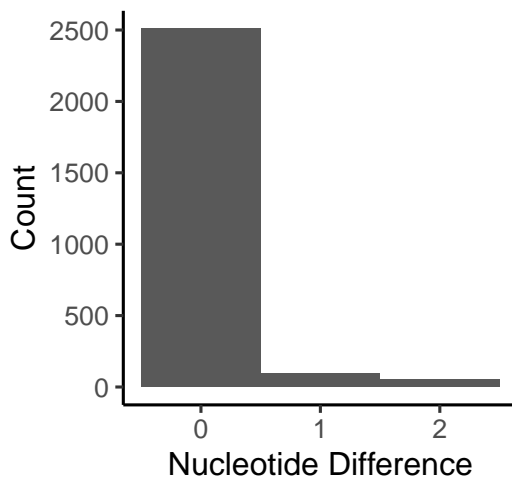
IGHV4-38-2*02

574 sequences assigned
529 (92.2%) exact matches, in which:
516 unique CDR3
6 unique J



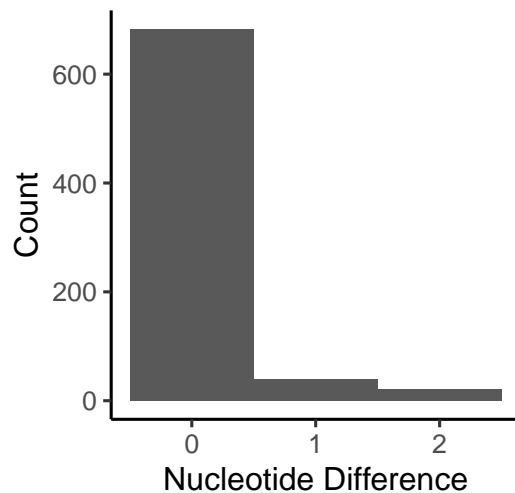
IGHV4-59*01_07

2656 sequences assigned
2509 (94.5%) exact matches, in which:
2430 unique CDR3
7 unique J



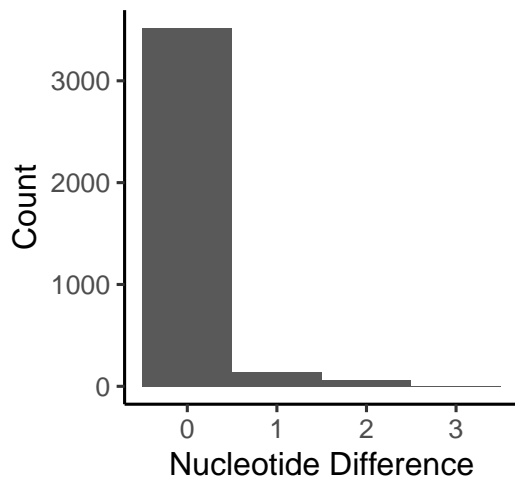
IGHV5-51*01_03

744 sequences assigned
683 (91.8%) exact matches, in which:
681 unique CDR3
7 unique J



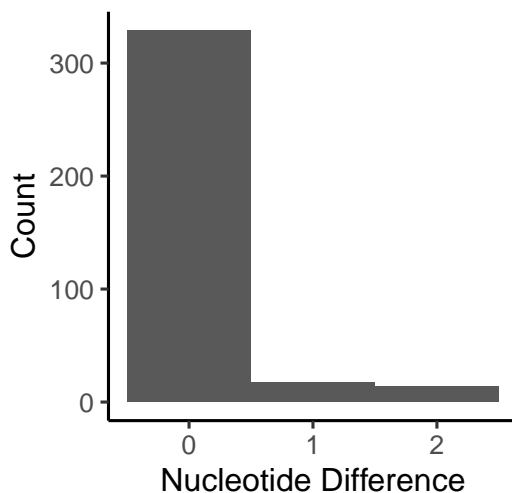
IGHV4-39*01_05

3726 sequences assigned
3518 (94.4%) exact matches, in which:
3415 unique CDR3
7 unique J



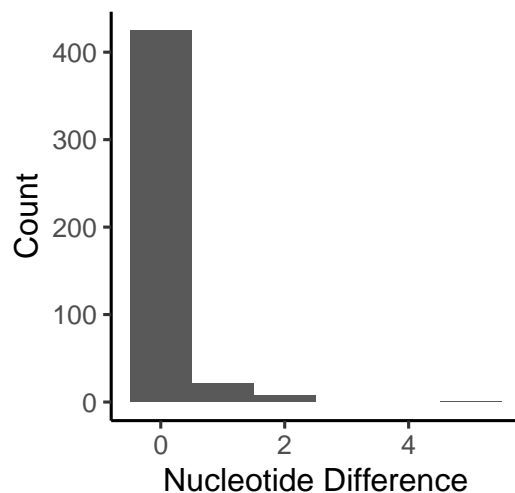
IGHV4-61*01

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



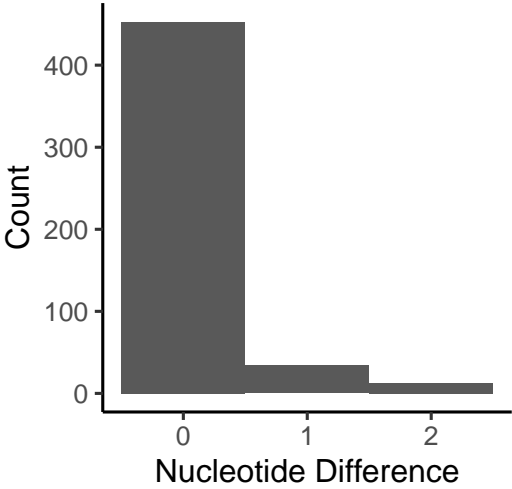
IGHV6-1*01_02

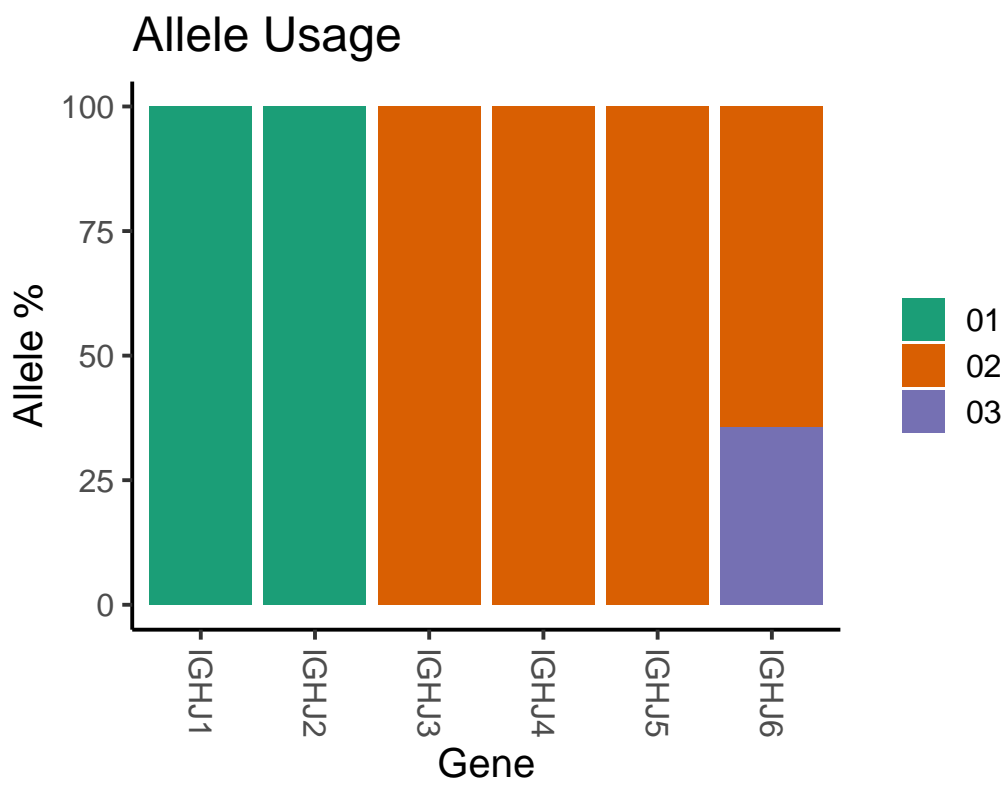
454 sequences assigned
425 (93.6%) exact matches, in which:
423 unique CDR3
7 unique J



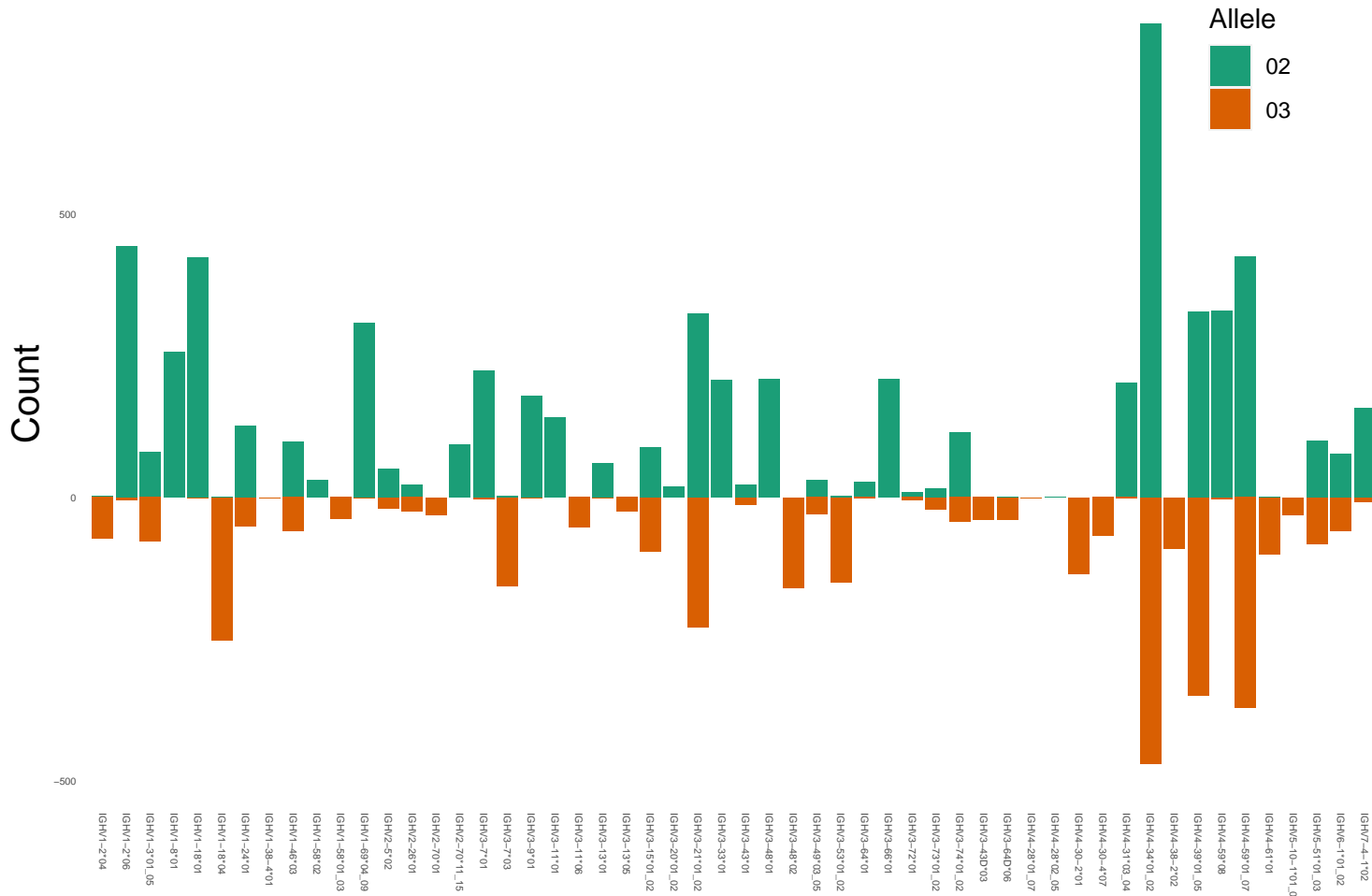
IGHV7-4-1*02

500 sequences assigned
453 (90.6%) exact matches, in which:
451 unique CDR3
7 unique J





Sequence Count by IGHJ6 allele usage



Lower sequence(s) 1011V4_5562_5567A 1011V5_57_7A1255 are not listed in the genotype and will be ignored.