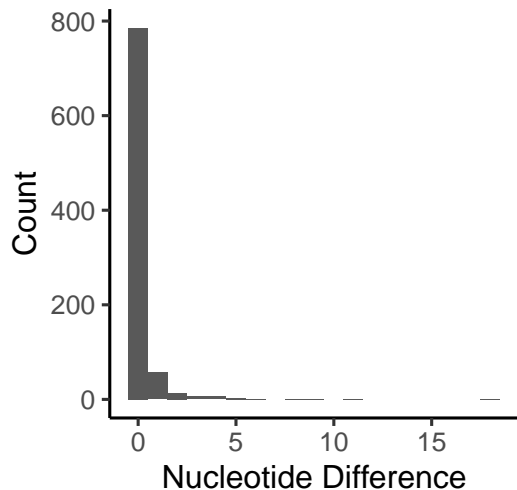


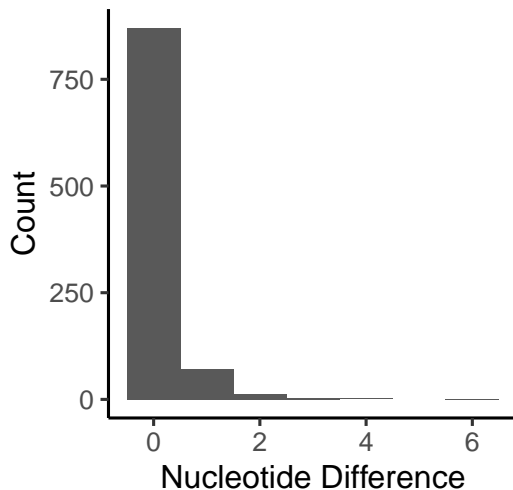
IGHV1-2*02

876 sequences assigned
786 (89.7%) exact matches, in which:
764 unique CDR3
6 unique J



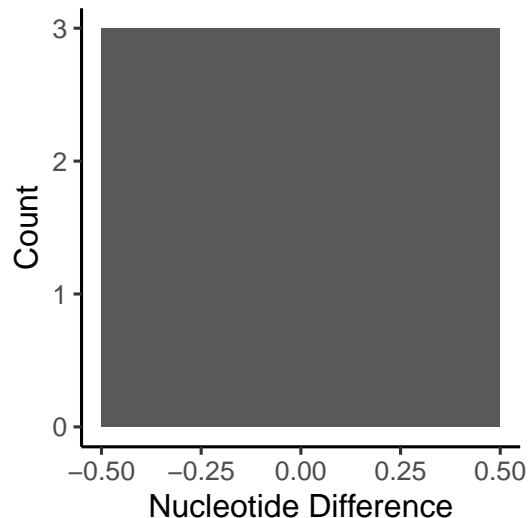
IGHV1-8*01

964 sequences assigned
871 (90.4%) exact matches, in which:
843 unique CDR3
7 unique J



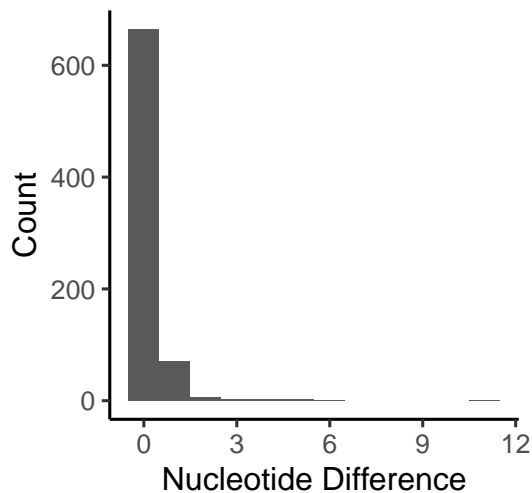
IGHV1-45*02

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



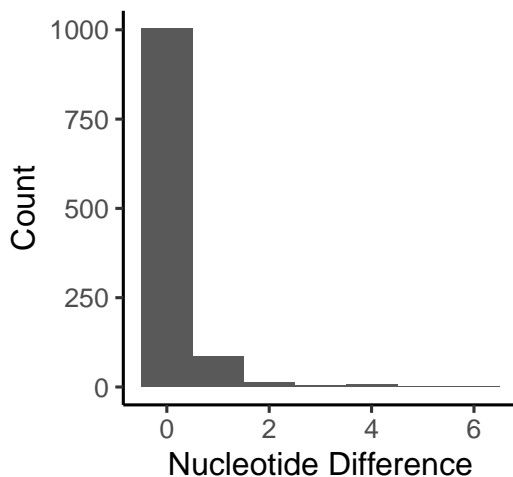
IGHV1-2*07

752 sequences assigned
665 (88.4%) exact matches, in which:
653 unique CDR3
6 unique J



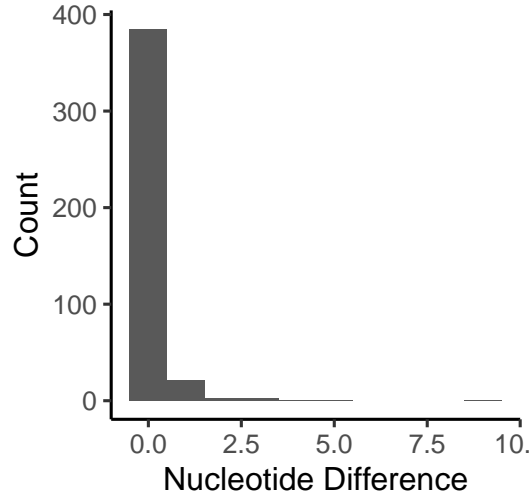
IGHV1-18*01

1113 sequences assigned
1003 (90.1%) exact matches, in which:
982 unique CDR3
7 unique J



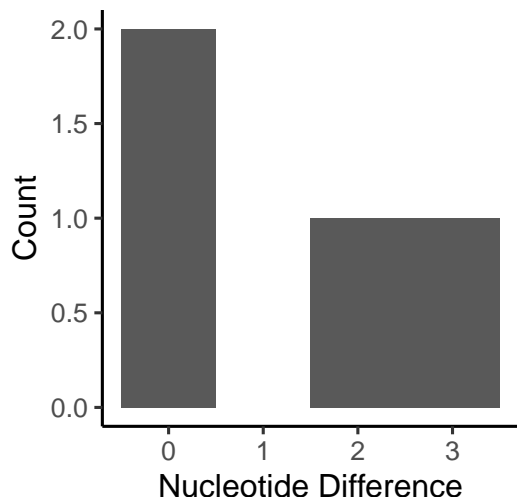
IGHV1-46*01

415 sequences assigned
385 (92.8%) exact matches, in which:
373 unique CDR3
7 unique J



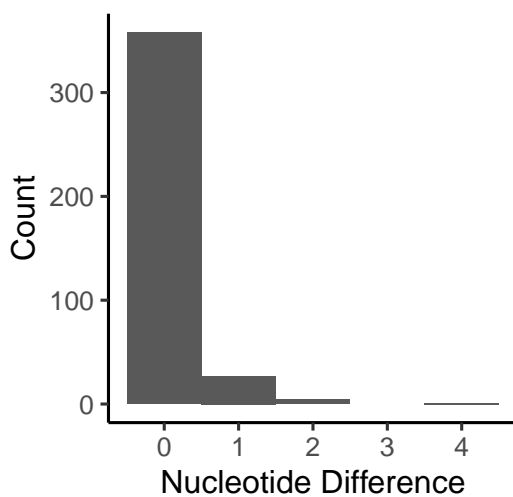
IGHV1-3*01

4 sequences assigned
2 (50%) exact matches, in which:
2 unique CDR3
2 unique J



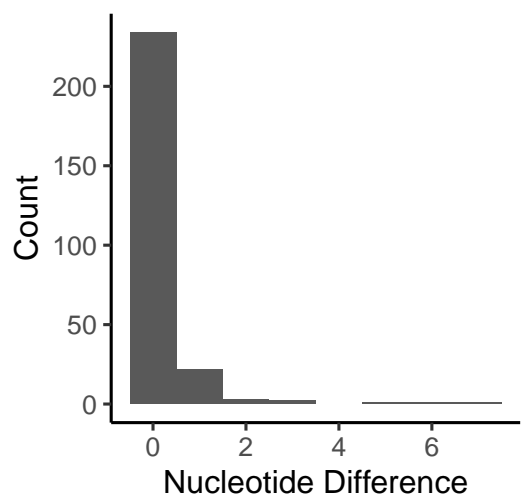
IGHV1-24*01

390 sequences assigned
358 (91.8%) exact matches, in which:
349 unique CDR3
7 unique J



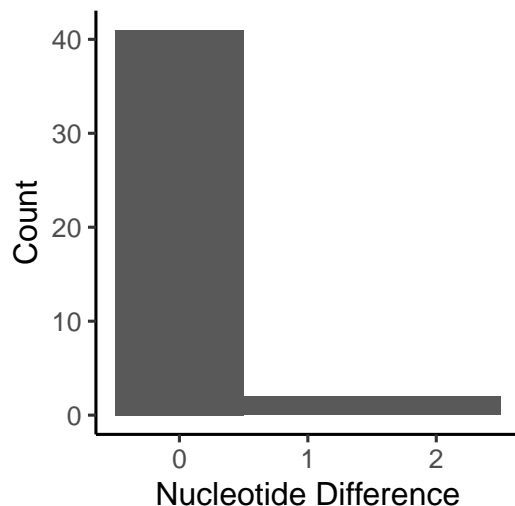
IGHV1-46*03

264 sequences assigned
234 (88.6%) exact matches, in which:
227 unique CDR3
6 unique J



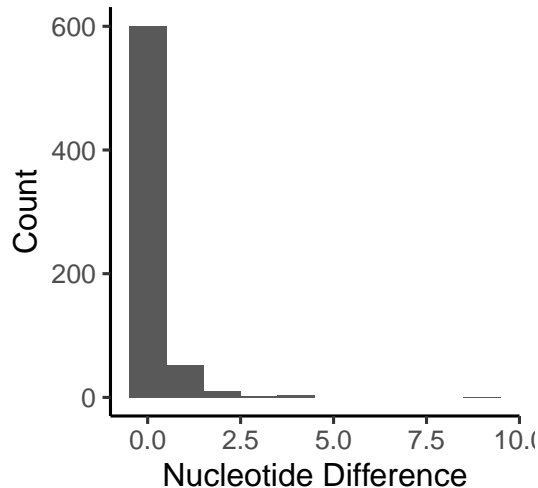
IGHV1-58*01

45 sequences assigned
41 (91.1%) exact matches, in which:
41 unique CDR3
4 unique J



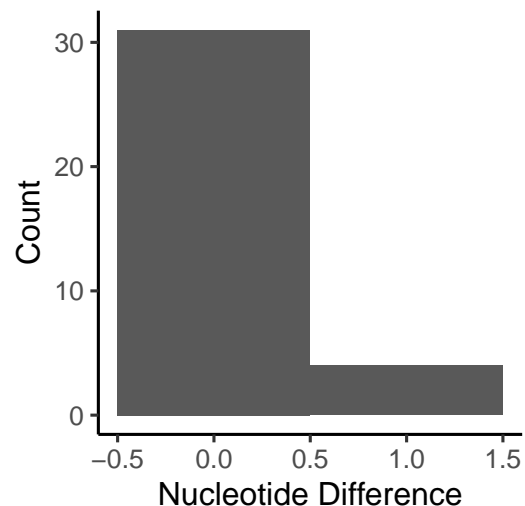
IGHV1-69*06

674 sequences assigned
601 (89.2%) exact matches, in which:
583 unique CDR3
7 unique J



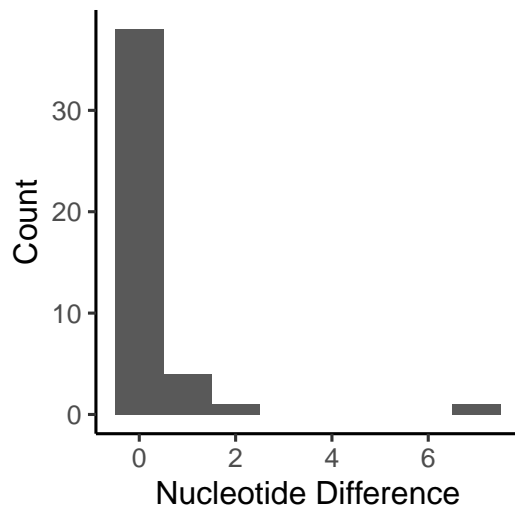
IGHV2-70*01

35 sequences assigned
31 (88.6%) exact matches, in which:
31 unique CDR3
5 unique J



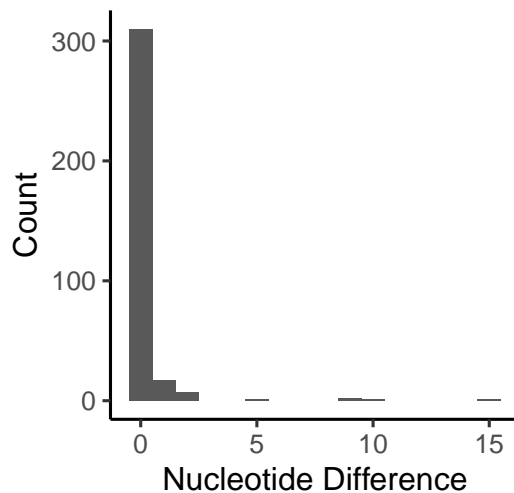
IGHV1-58*02

44 sequences assigned
38 (86.4%) exact matches, in which:
38 unique CDR3
6 unique J



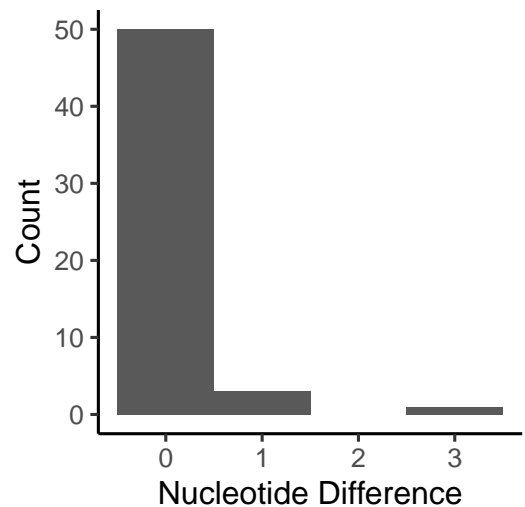
IGHV2-5*01

339 sequences assigned
310 (91.4%) exact matches, in which:
308 unique CDR3
7 unique J



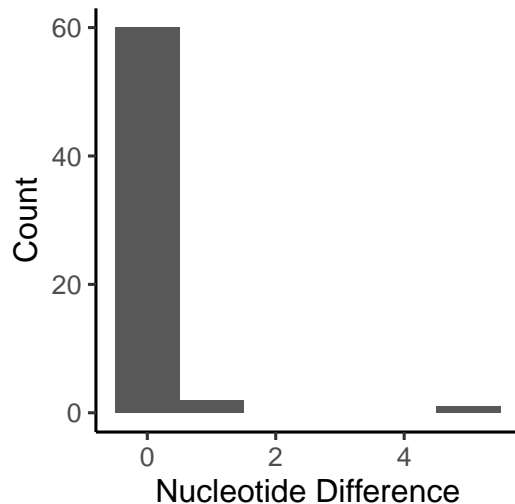
IGHV2-70*15

54 sequences assigned
50 (92.6%) exact matches, in which:
49 unique CDR3
4 unique J



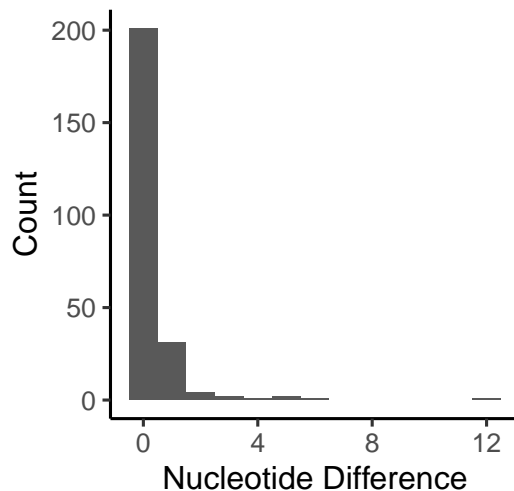
IGHV1-69-2*01

63 sequences assigned
60 (95.2%) exact matches, in which:
58 unique CDR3
6 unique J



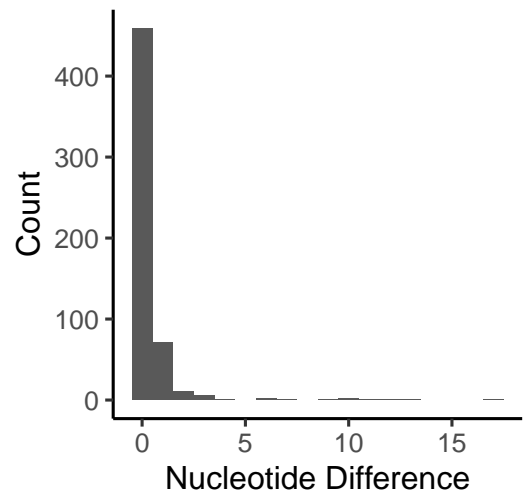
IGHV2-26*01

243 sequences assigned
201 (82.7%) exact matches, in which:
199 unique CDR3
7 unique J



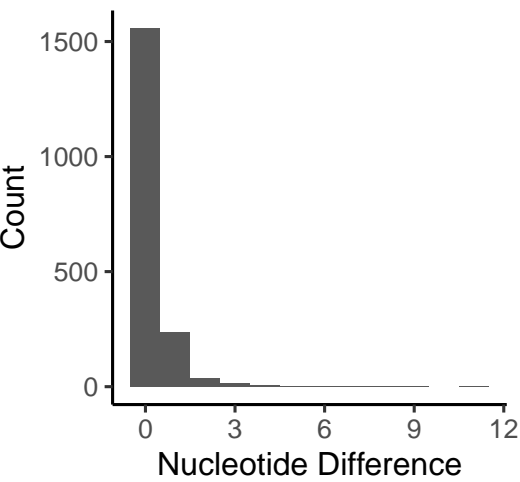
IGHV3-7*01

558 sequences assigned
459 (82.3%) exact matches, in which:
441 unique CDR3
7 unique J



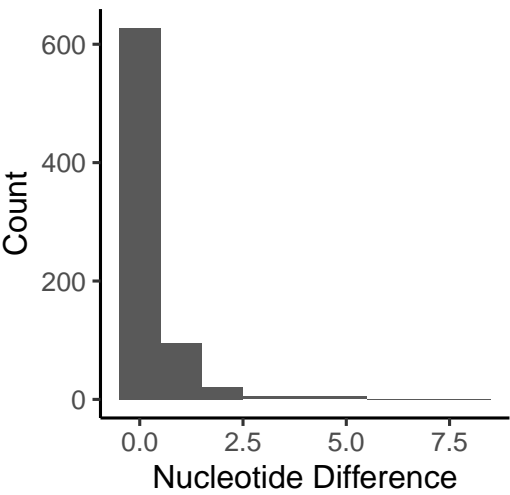
IGHV3-9*01

1869 sequences assigned
1557 (83.3%) exact matches, in which:
1483 unique CDR3
7 unique J



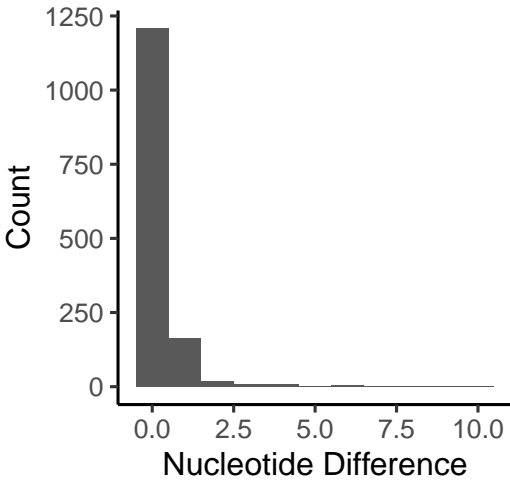
IGHV3-15*01

762 sequences assigned
628 (82.4%) exact matches, in which:
607 unique CDR3
7 unique J



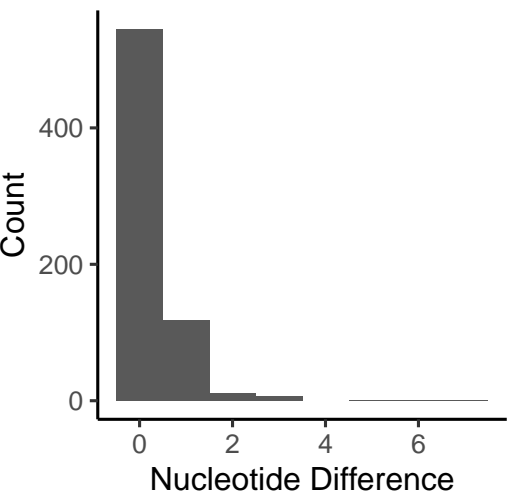
IGHV3-30-3*01

1423 sequences assigned
1208 (84.9%) exact matches, in which:
1145 unique CDR3
7 unique J



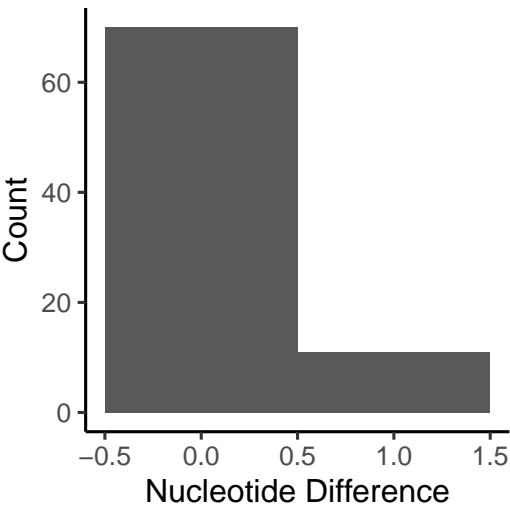
IGHV3-11*01

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



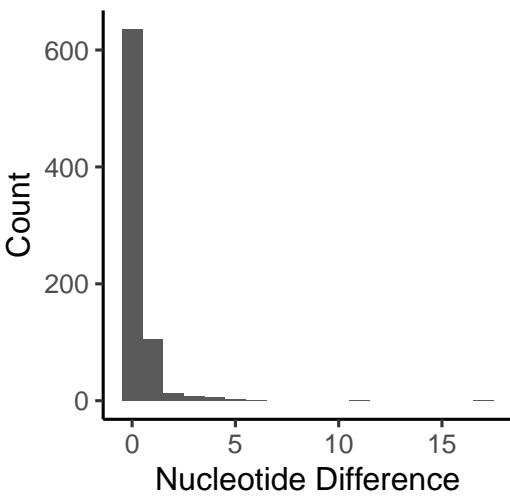
IGHV3-20*01

81 sequences assigned
70 (86.4%) exact matches, in which:
67 unique CDR3
6 unique J



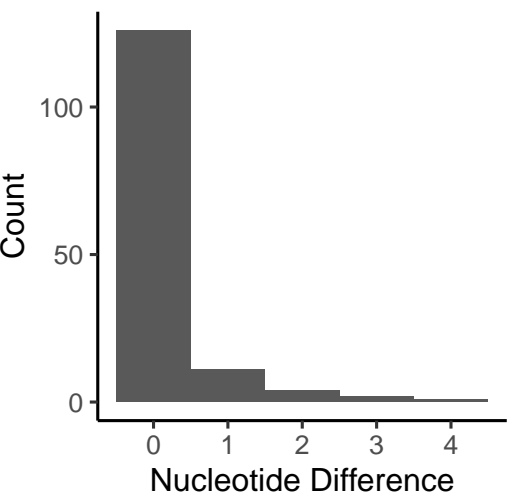
IGHV3-33*01

775 sequences assigned
636 (82.1%) exact matches, in which:
615 unique CDR3
7 unique J



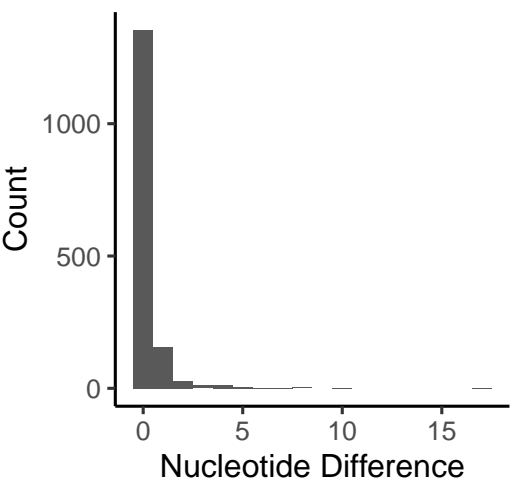
IGHV3-13*01

144 sequences assigned
126 (87.5%) exact matches, in which:
125 unique CDR3
6 unique J



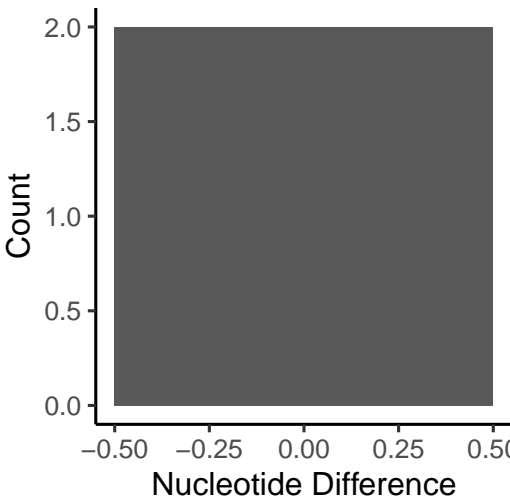
IGHV3-21*01

1574 sequences assigned
1354 (86%) exact matches, in which:
1308 unique CDR3
7 unique J



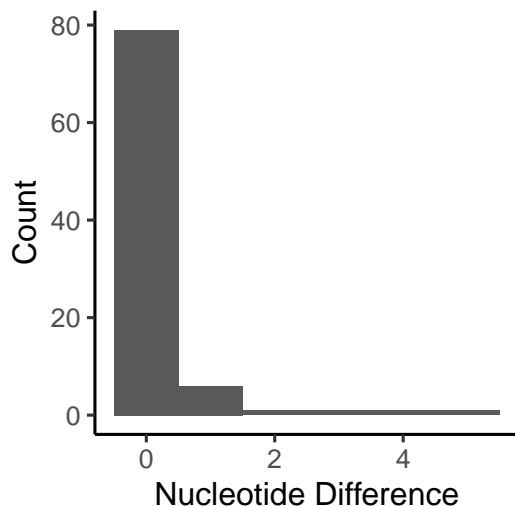
IGHV3-35*01

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



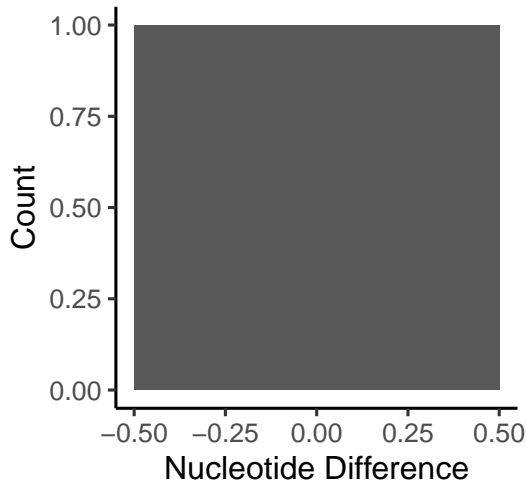
IGHV3-43*01

89 sequences assigned
79 (88.8%) exact matches, in which:
76 unique CDR3
6 unique J



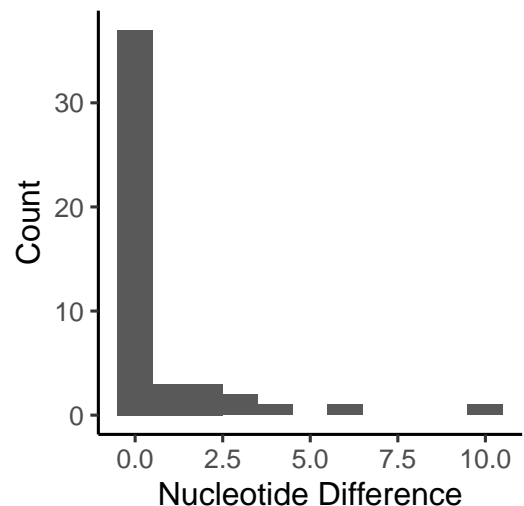
IGHV3-52*01

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



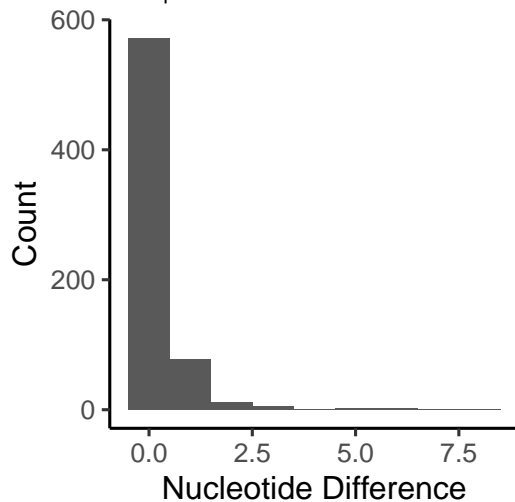
IGHV3-64*01

48 sequences assigned
37 (77.1%) exact matches, in which:
36 unique CDR3
5 unique J



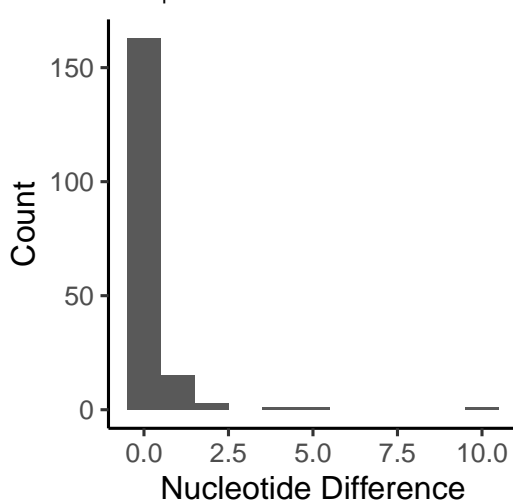
IGHV3-48*01

676 sequences assigned
572 (84.6%) exact matches, in which:
554 unique CDR3
7 unique J



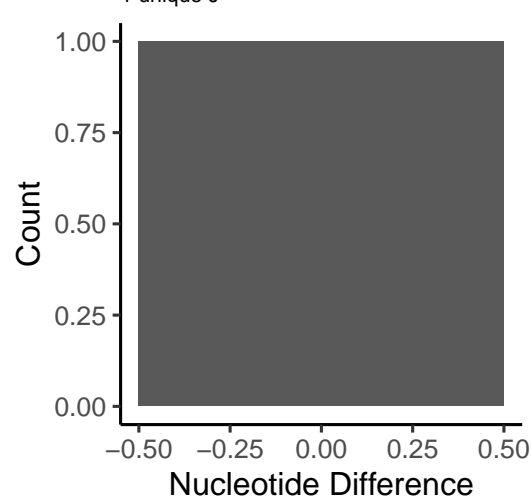
IGHV3-53*01

185 sequences assigned
163 (88.1%) exact matches, in which:
157 unique CDR3
7 unique J



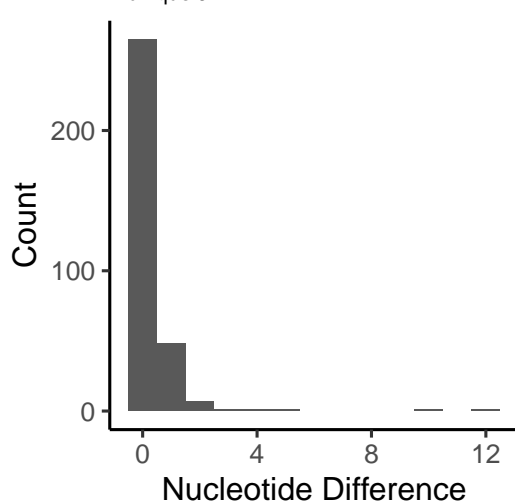
IGHV3-66*01

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



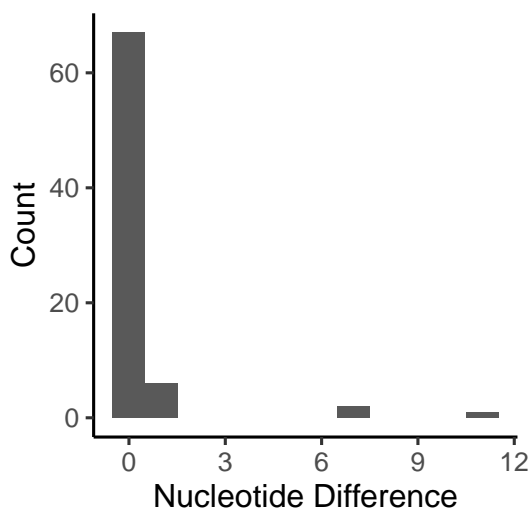
IGHV3-49*03

325 sequences assigned
265 (81.5%) exact matches, in which:
259 unique CDR3
7 unique J



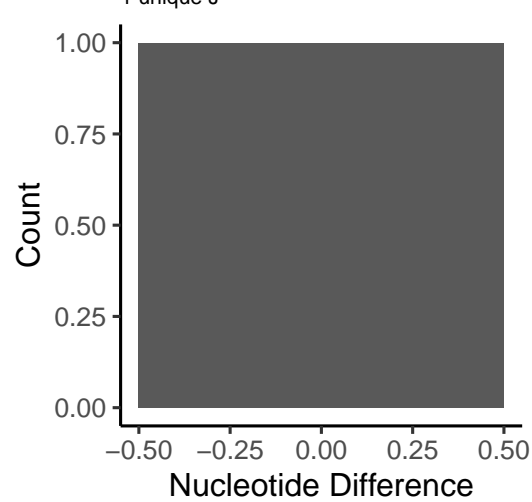
IGHV3-53*02

76 sequences assigned
67 (88.2%) exact matches, in which:
67 unique CDR3
6 unique J



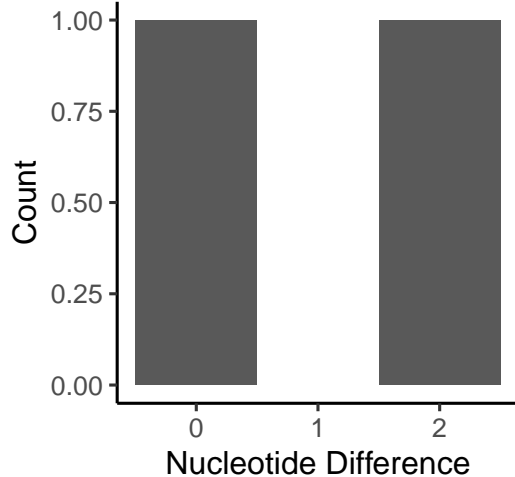
IGHV3-66*03

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



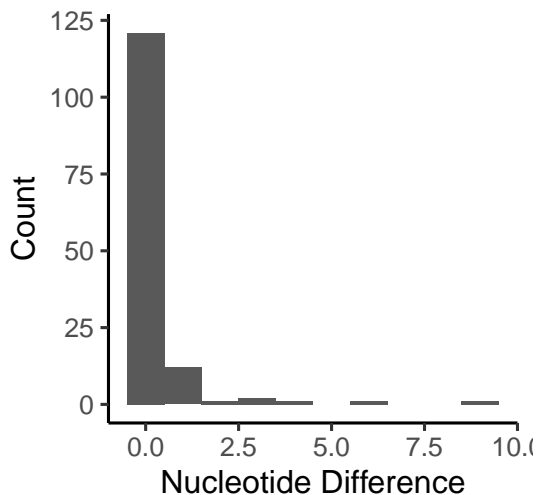
IGHV3-66*04

2 sequences assigned
1 (50%) exact matches, in which:
1 unique CDR3
1 unique J



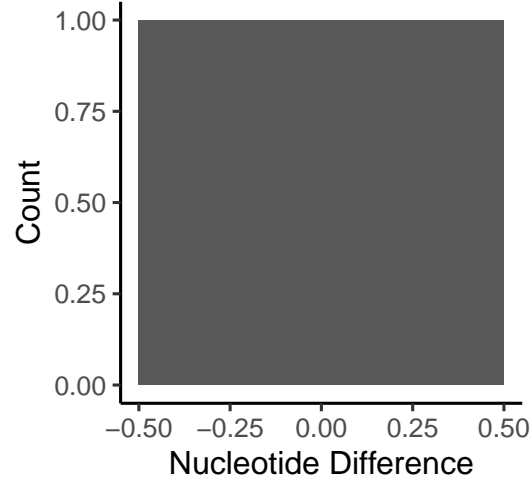
IGHV3-73*02

139 sequences assigned
121 (87.1%) exact matches, in which:
115 unique CDR3
7 unique J



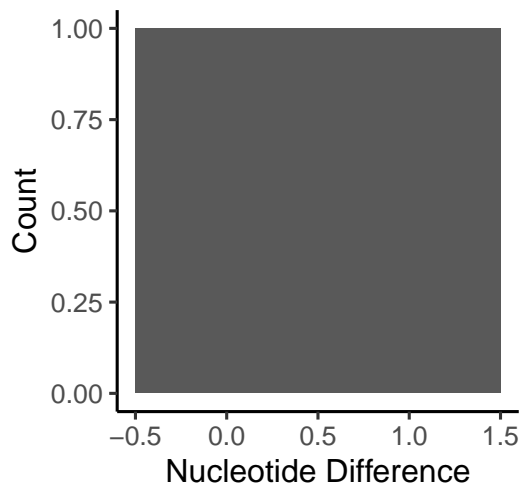
IGHV4-28*01

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



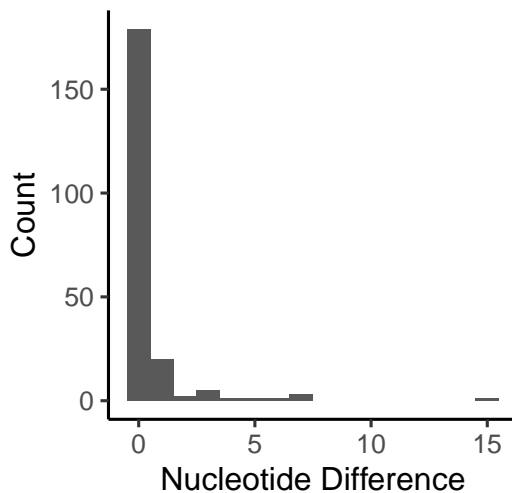
IGHV3-69-1*01

2 sequences assigned
1 (50%) exact matches, in which:
1 unique CDR3
1 unique J



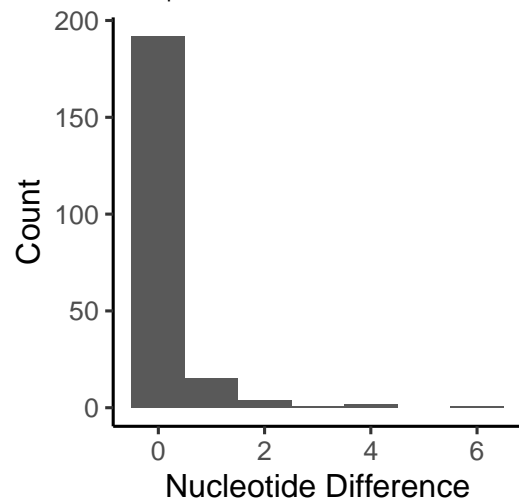
IGHV3-74*01

213 sequences assigned
179 (84%) exact matches, in which:
176 unique CDR3
7 unique J



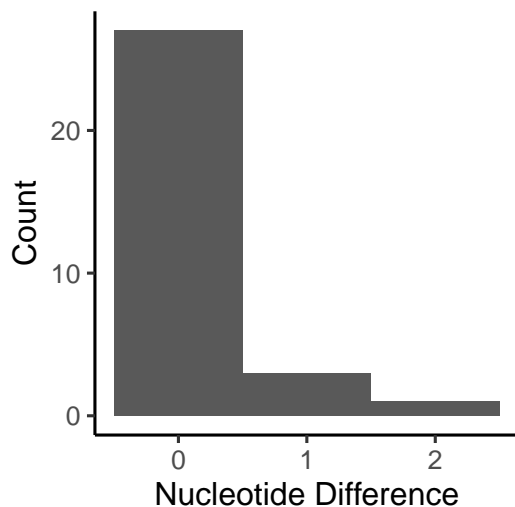
IGHV4-30-2*01

215 sequences assigned
192 (89.3%) exact matches, in which:
187 unique CDR3
7 unique J



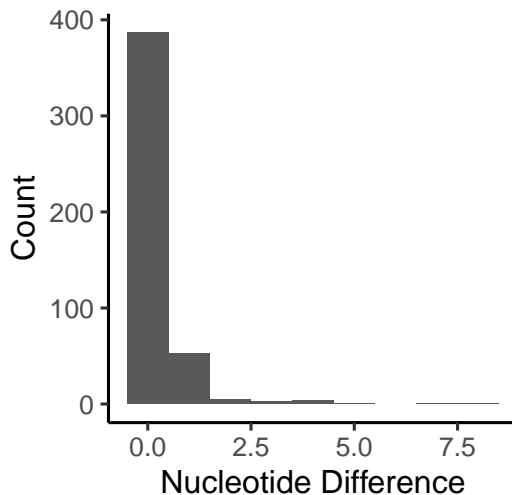
IGHV3-72*01

31 sequences assigned
27 (87.1%) exact matches, in which:
25 unique CDR3
5 unique J



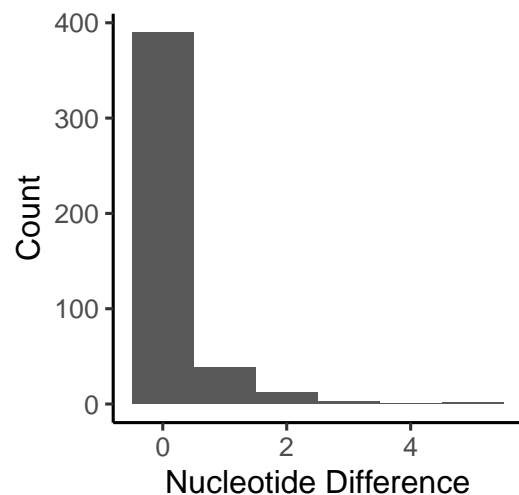
IGHV4-4*07

455 sequences assigned
387 (85.1%) exact matches, in which:
382 unique CDR3
7 unique J



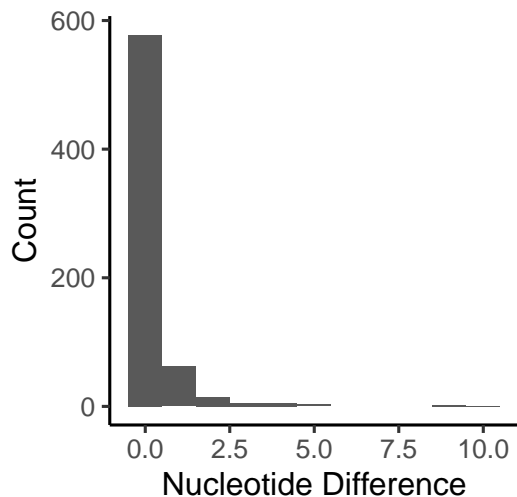
IGHV4-30-4*01

447 sequences assigned
390 (87.2%) exact matches, in which:
381 unique CDR3
7 unique J



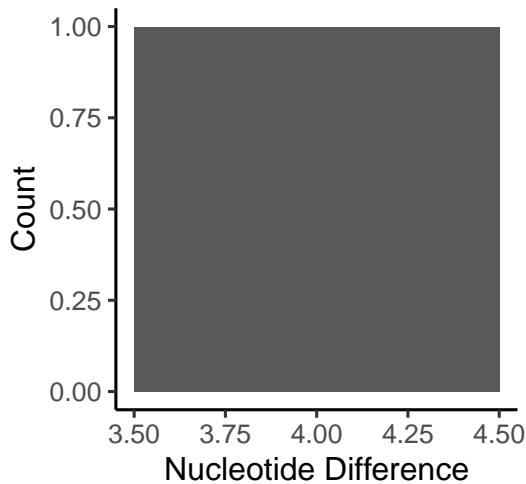
IGHV4–31*03

671 sequences assigned
578 (86.1%) exact matches, in which:
566 unique CDR3
7 unique J



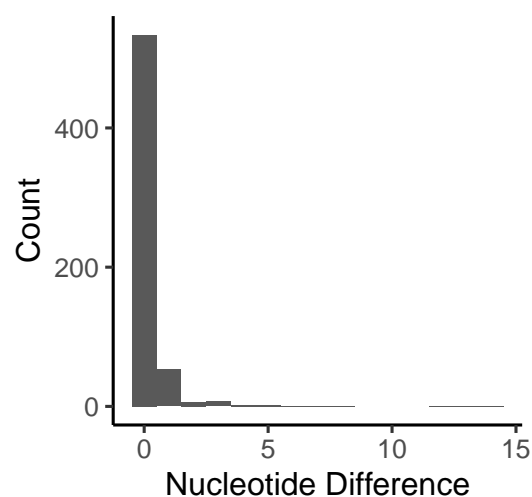
IGHV4–55*08

1 sequences assigned
No exact matches.



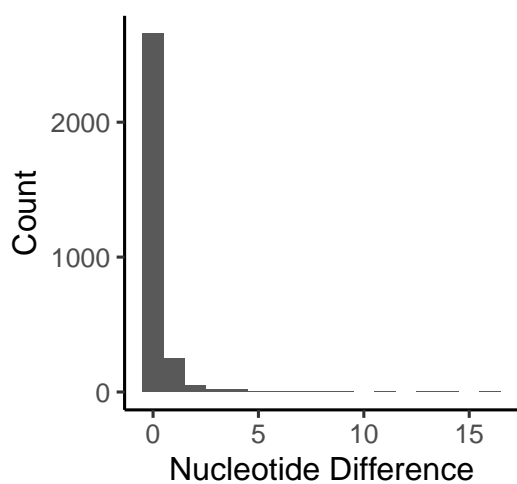
IGHV4–61*02

610 sequences assigned
534 (87.5%) exact matches, in which:
528 unique CDR3
6 unique J



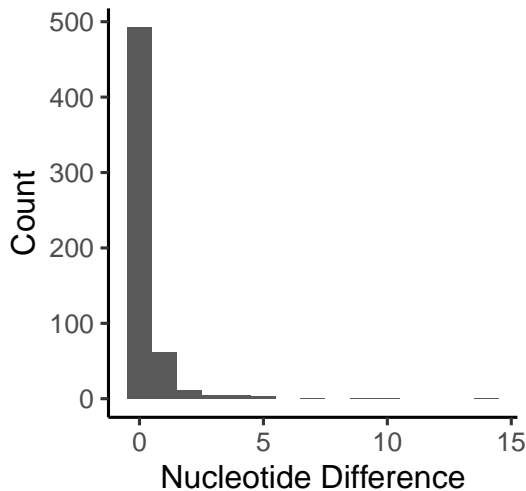
IGHV4–34*01

3019 sequences assigned
2656 (88%) exact matches, in which:
2570 unique CDR3
7 unique J



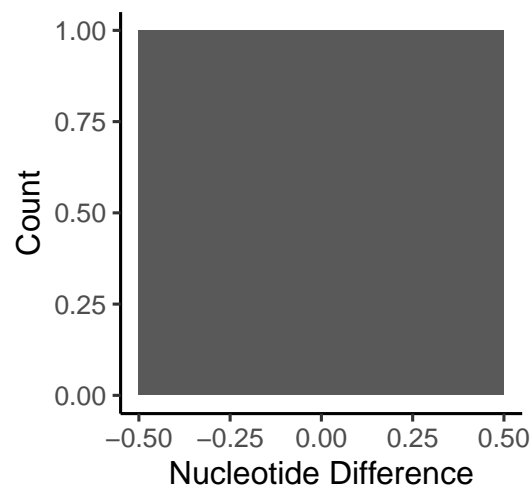
IGHV4–59*01

584 sequences assigned
493 (84.4%) exact matches, in which:
488 unique CDR3
7 unique J



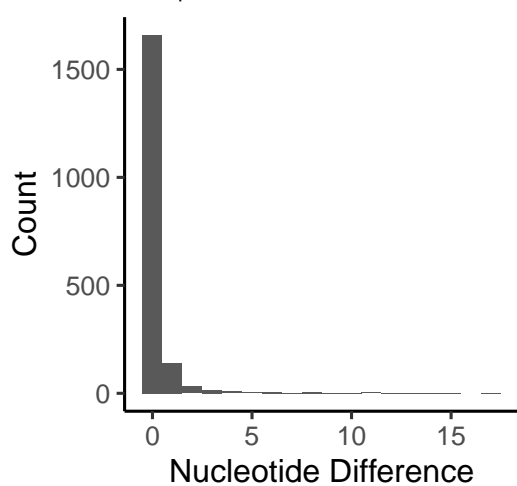
IGHV1/OR15–2*01

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



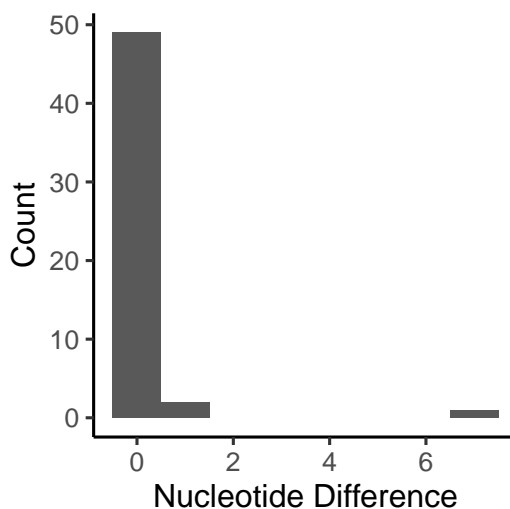
IGHV4–39*01

1882 sequences assigned
1659 (88.2%) exact matches, in which:
1605 unique CDR3
7 unique J



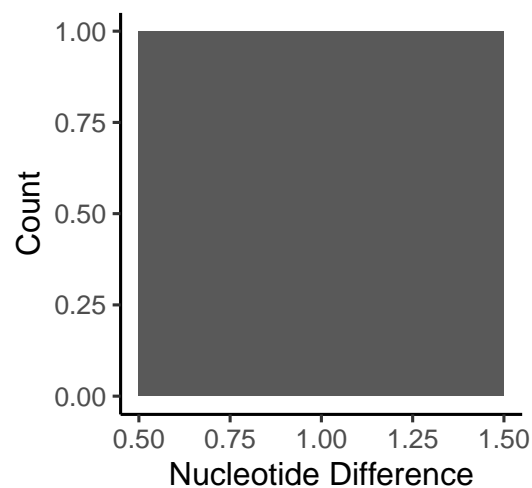
IGHV4–61*01

53 sequences assigned
49 (92.5%) exact matches, in which:
49 unique CDR3
5 unique J



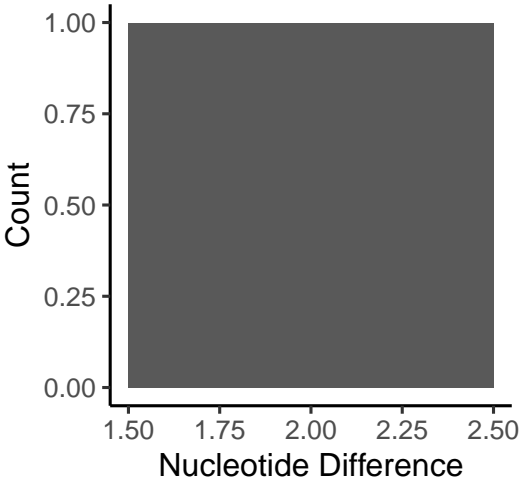
IGHV4/OR15–8*02

1 sequences assigned
No exact matches.



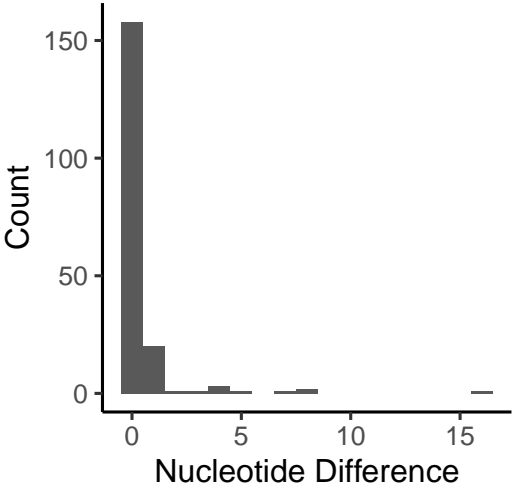
IGHV5-10-1*02

1 sequences assigned
No exact matches.



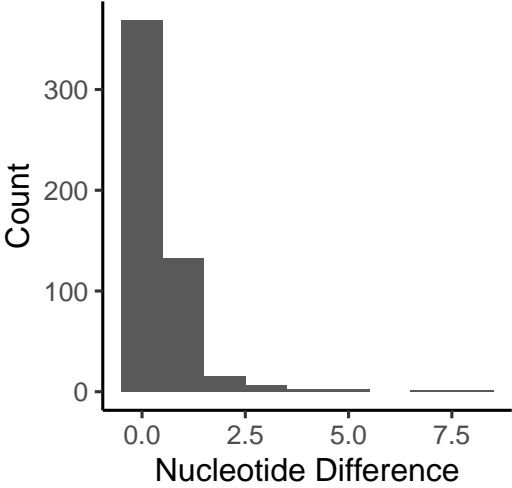
IGHV6-1*01

188 sequences assigned
158 (84%) exact matches, in which:
152 unique CDR3
7 unique J



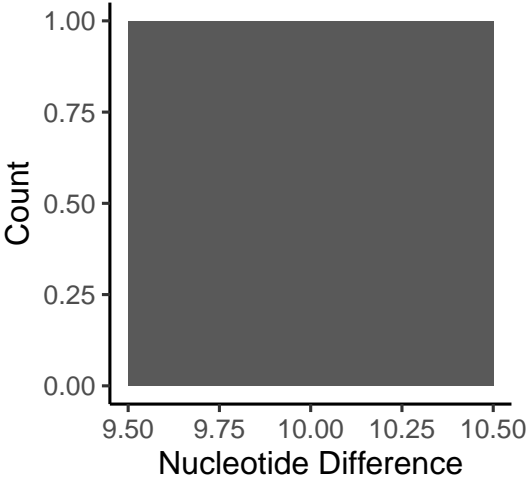
IGHV5-51*01

529 sequences assigned
369 (69.8%) exact matches, in which:
361 unique CDR3
7 unique J



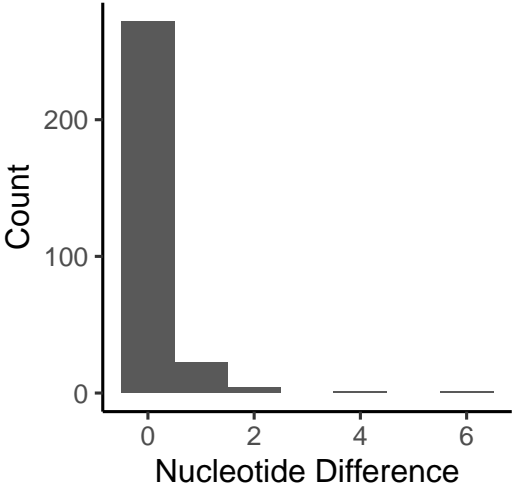
IGHV7-81*01

1 sequences assigned
No exact matches.

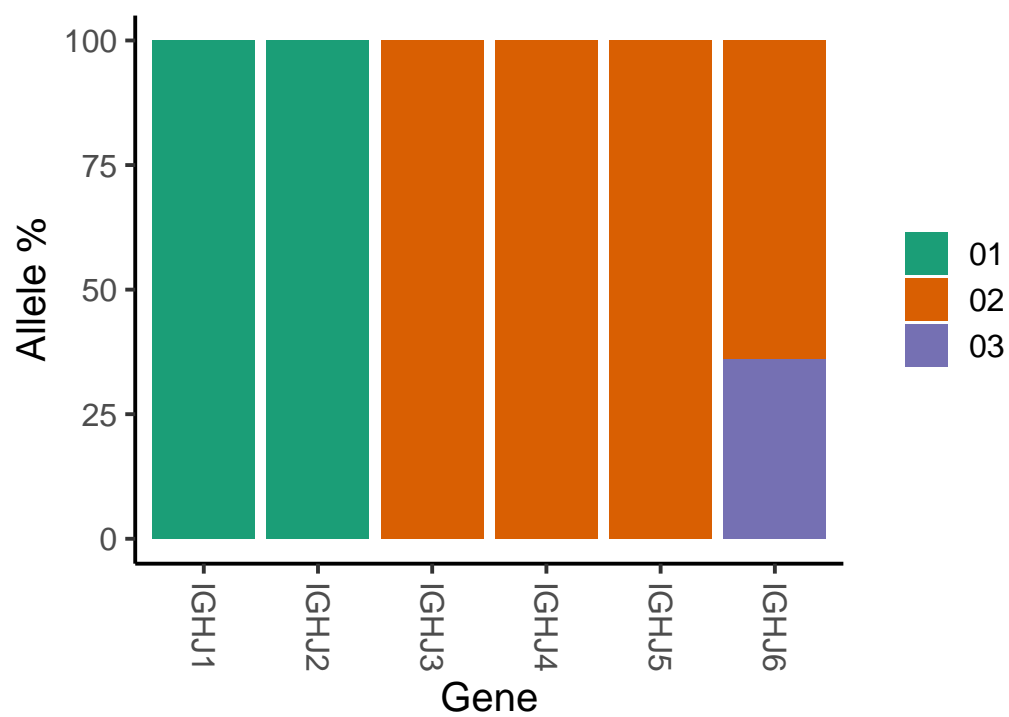


IGHV5-51*03

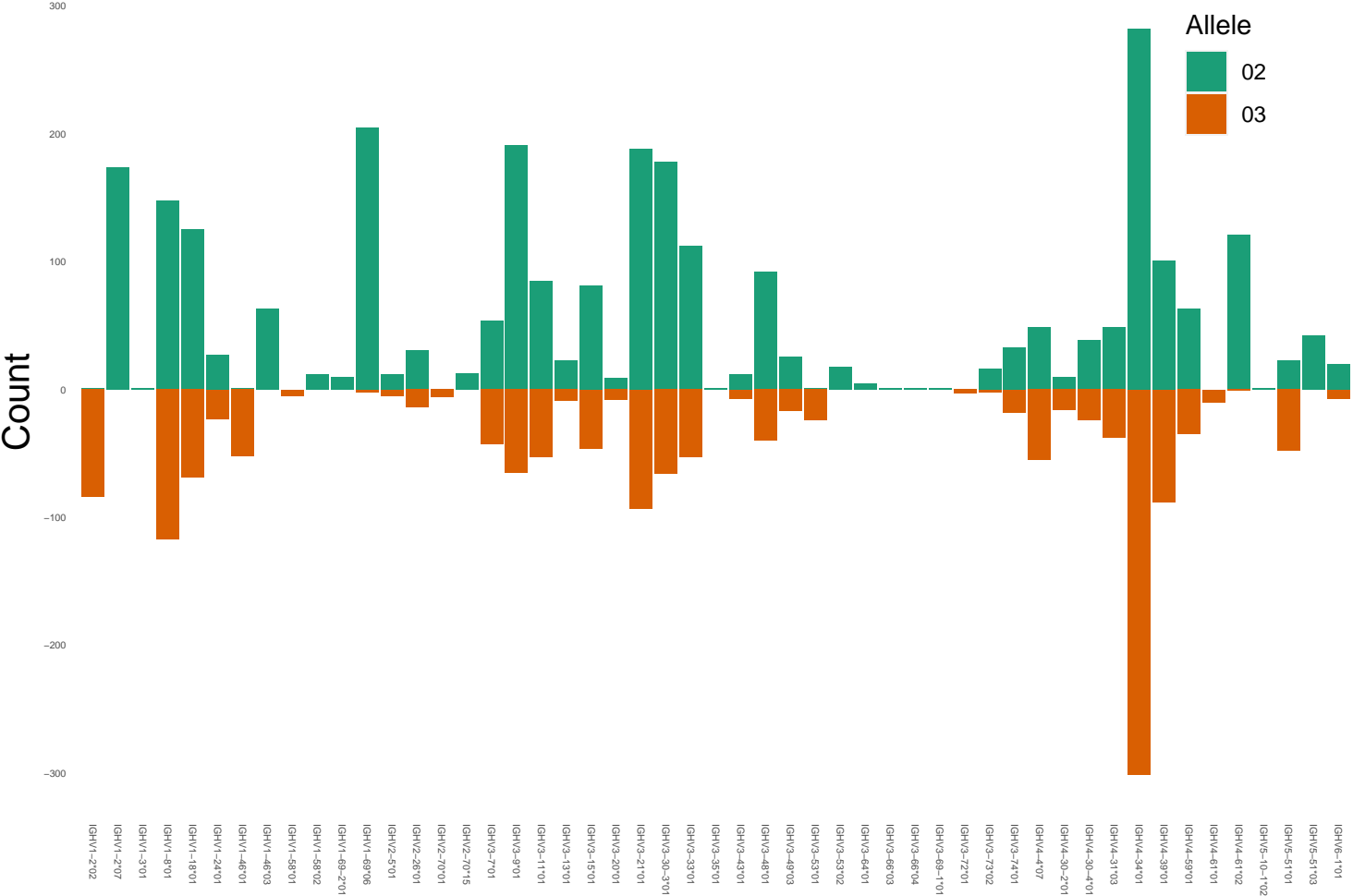
302 sequences assigned
272 (90.1%) exact matches, in which:
266 unique CDR3
6 unique J



Allele Usage



Sequence Count by IGHJ6 allele usage



Warning – no inferred sequences found.