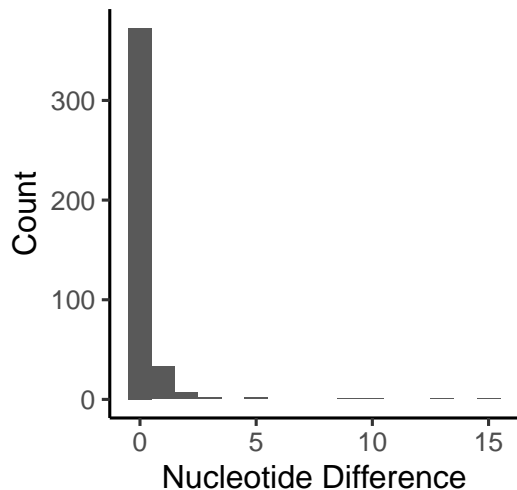


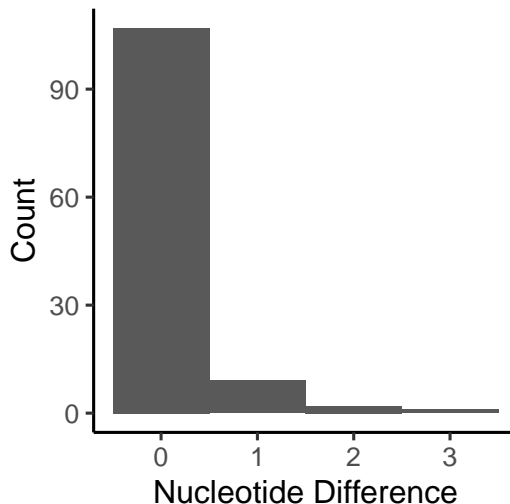
IGHV1-2*02

421 sequences assigned
373 (88.6%) exact matches, in which:
371 unique CDR3
7 unique J



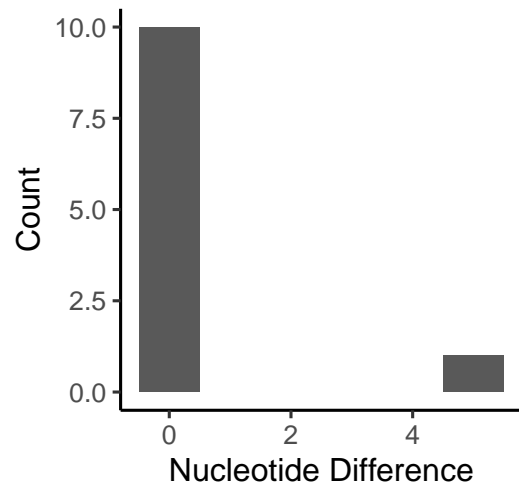
IGHV1-24*01

119 sequences assigned
107 (89.9%) exact matches, in which:
107 unique CDR3
7 unique J



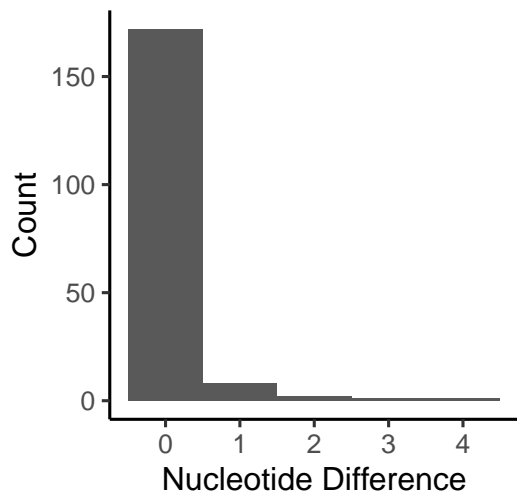
IGHV1-69-2*01

11 sequences assigned
10 (90.9%) exact matches, in which:
10 unique CDR3
5 unique J



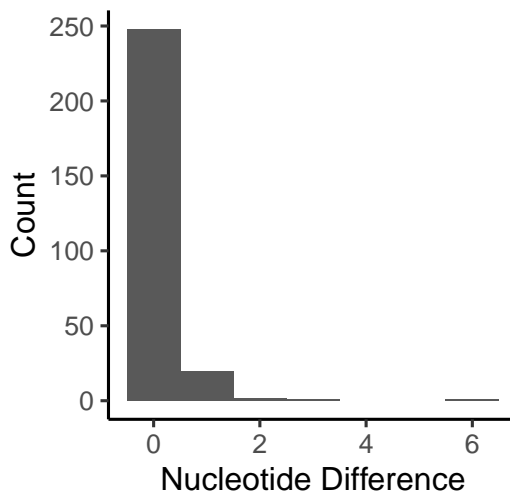
IGHV1-8*01

185 sequences assigned
172 (93%) exact matches, in which:
171 unique CDR3
5 unique J



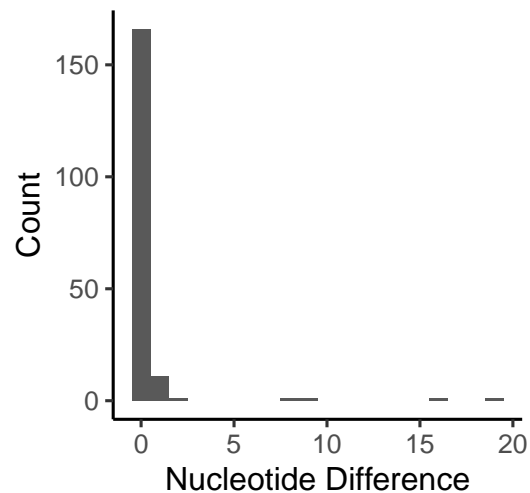
IGHV1-46*01

272 sequences assigned
248 (91.2%) exact matches, in which:
246 unique CDR3
7 unique J



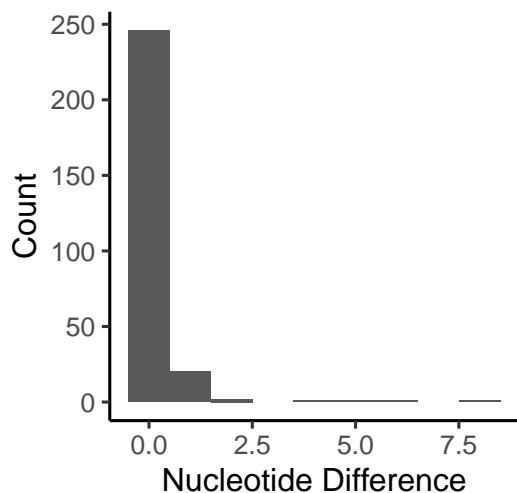
IGHV1-69*09

182 sequences assigned
166 (91.2%) exact matches, in which:
166 unique CDR3
6 unique J



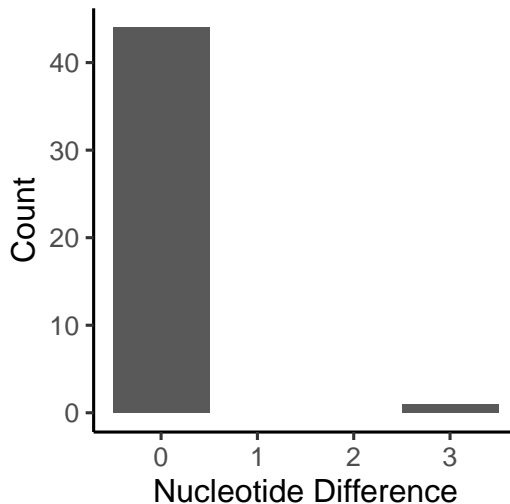
IGHV1-18*01

272 sequences assigned
246 (90.4%) exact matches, in which:
244 unique CDR3
7 unique J



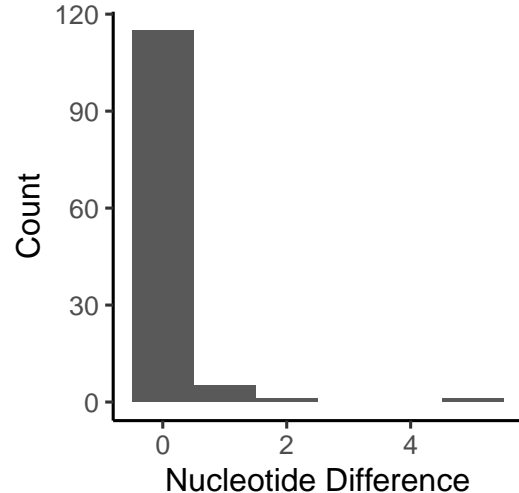
IGHV1-58*01

45 sequences assigned
44 (97.8%) exact matches, in which:
43 unique CDR3
6 unique J



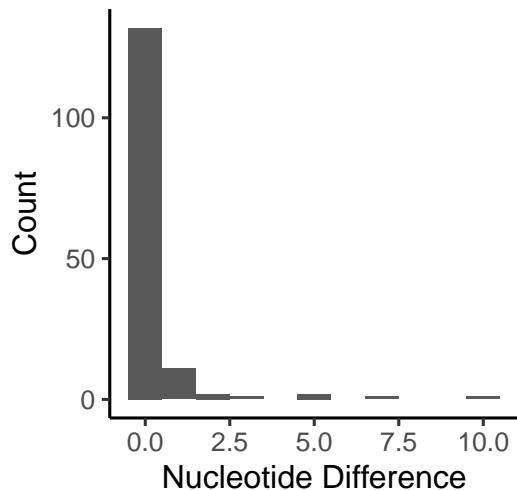
IGHV2-5*01

122 sequences assigned
115 (94.3%) exact matches, in which:
113 unique CDR3
6 unique J



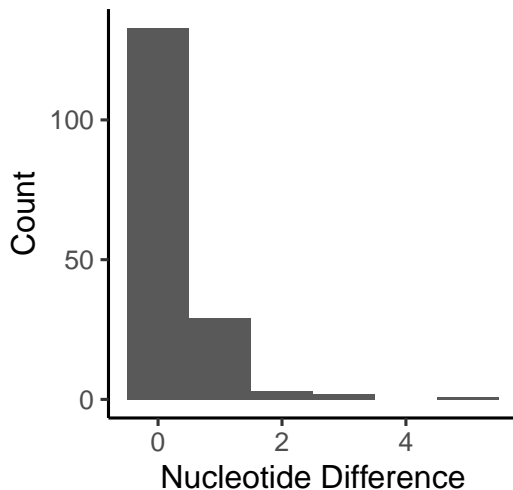
IGHV2–5*02

150 sequences assigned
132 (88%) exact matches, in which:
132 unique CDR3
6 unique J



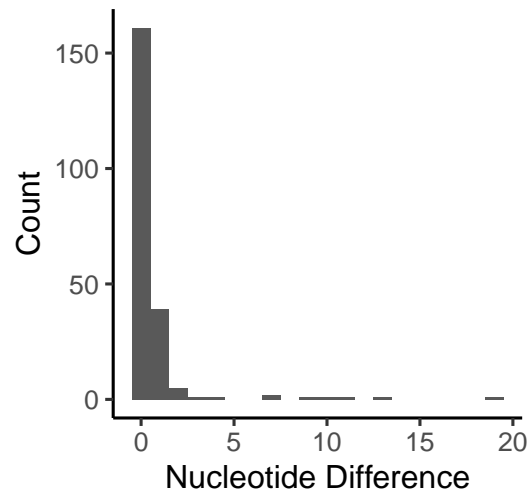
IGHV3–7*01

168 sequences assigned
133 (79.2%) exact matches, in which:
131 unique CDR3
6 unique J



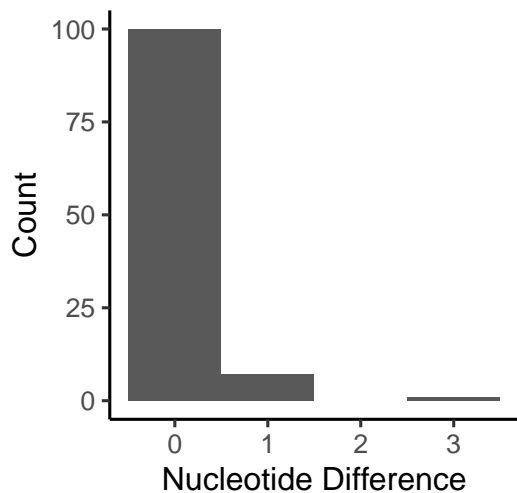
IGHV3–11*01

214 sequences assigned
161 (75.2%) exact matches, in which:
159 unique CDR3
6 unique J



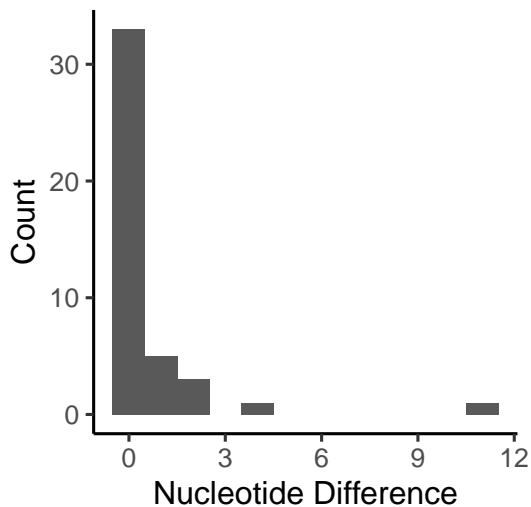
IGHV2–26*01

108 sequences assigned
100 (92.6%) exact matches, in which:
100 unique CDR3
6 unique J



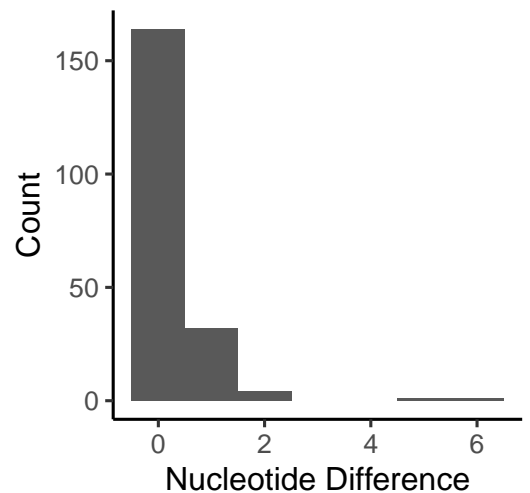
IGHV3–7*04

43 sequences assigned
33 (76.7%) exact matches, in which:
33 unique CDR3
5 unique J



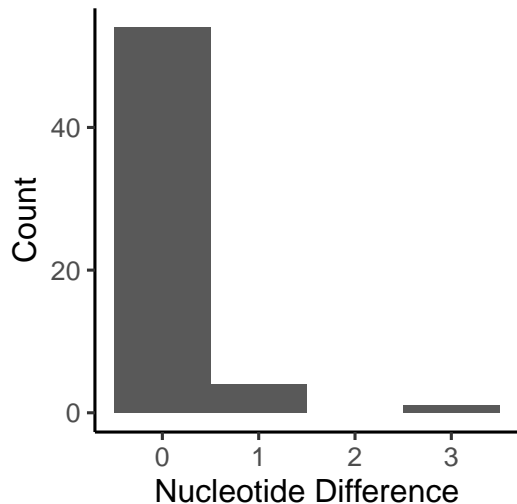
IGHV3–11*05

202 sequences assigned
164 (81.2%) exact matches, in which:
162 unique CDR3
6 unique J



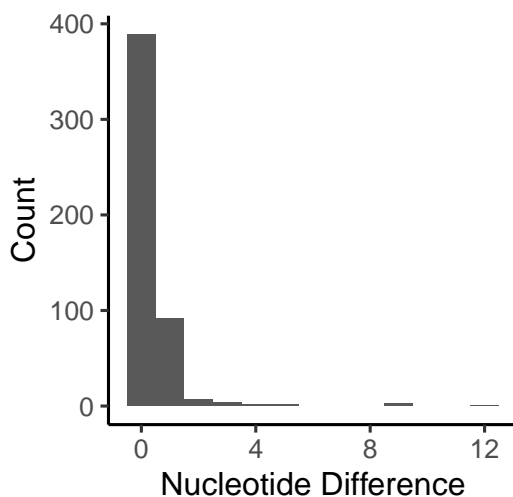
IGHV2–70*01

59 sequences assigned
54 (91.5%) exact matches, in which:
54 unique CDR3
7 unique J



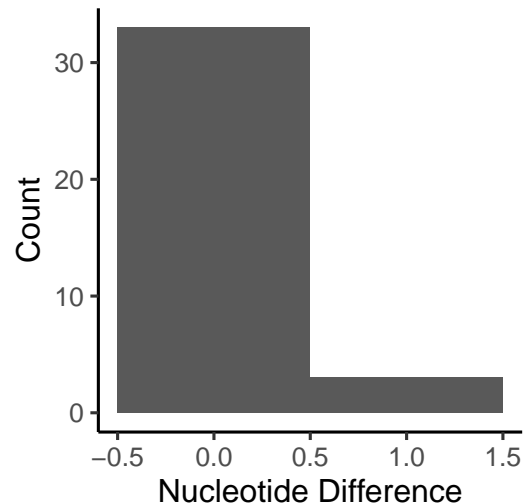
IGHV3–9*01

500 sequences assigned
389 (77.8%) exact matches, in which:
379 unique CDR3
6 unique J



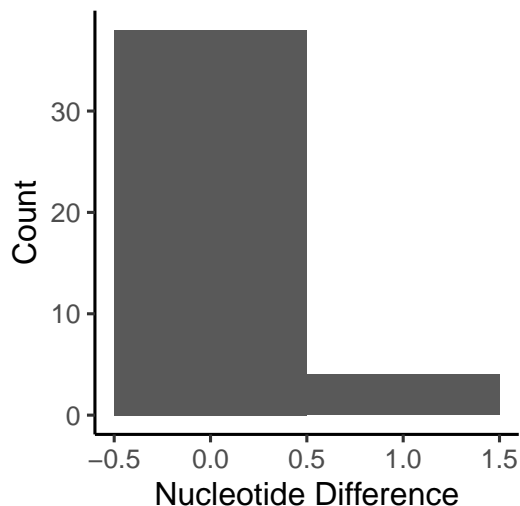
IGHV3–13*01

36 sequences assigned
33 (91.7%) exact matches, in which:
33 unique CDR3
6 unique J



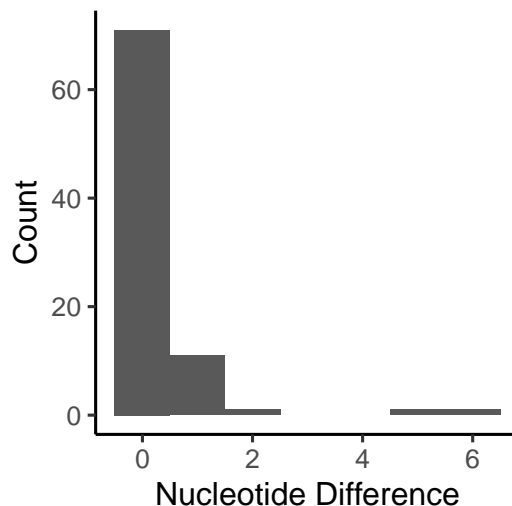
IGHV3-13*04

42 sequences assigned
38 (90.5%) exact matches, in which:
38 unique CDR3
5 unique J



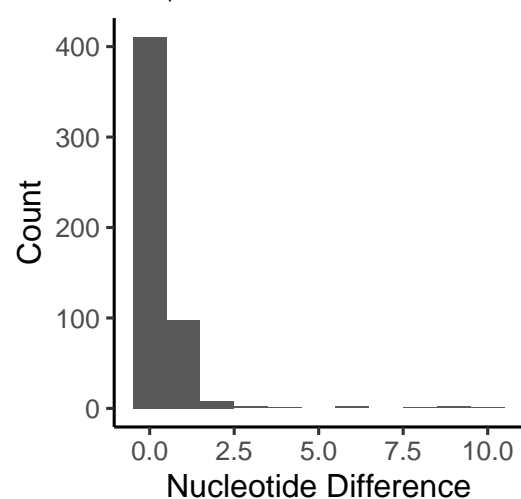
IGHV3-20*04

85 sequences assigned
71 (83.5%) exact matches, in which:
71 unique CDR3
6 unique J



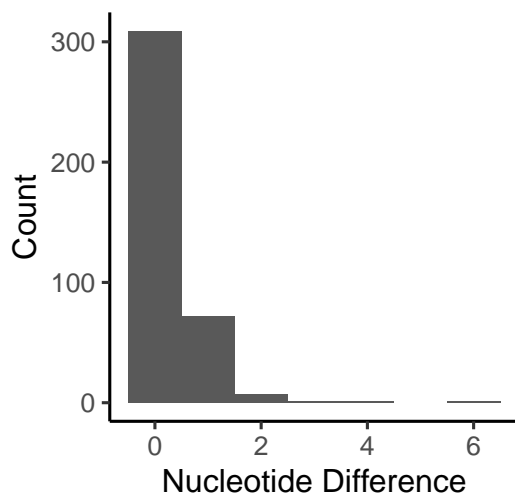
IGHV3-33*01

526 sequences assigned
411 (78.1%) exact matches, in which:
401 unique CDR3
7 unique J



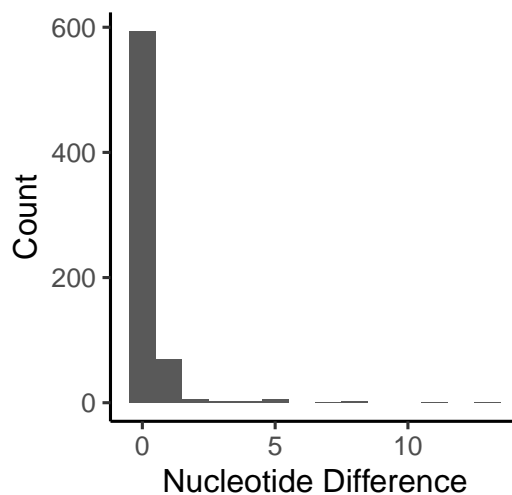
IGHV3-15*01

391 sequences assigned
309 (79%) exact matches, in which:
308 unique CDR3
7 unique J



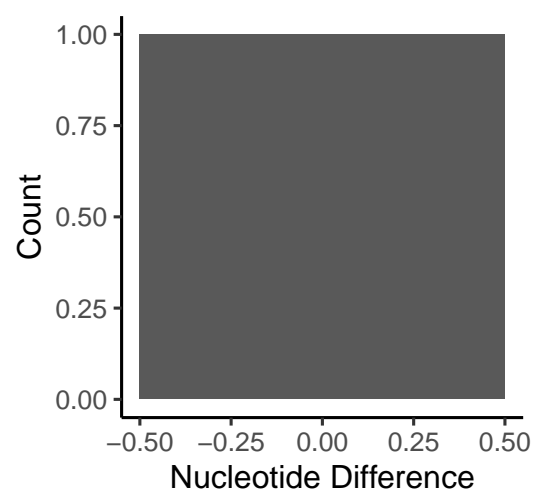
IGHV3-21*01

684 sequences assigned
594 (86.8%) exact matches, in which:
593 unique CDR3
7 unique J



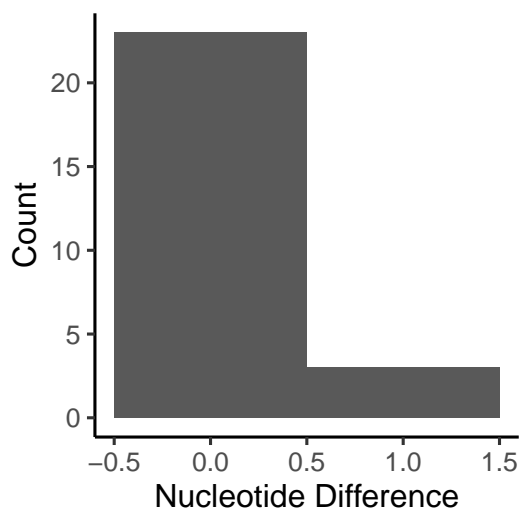
IGHV3-35*01

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



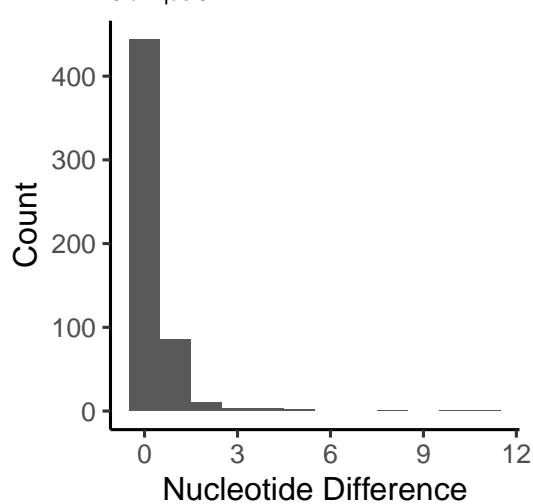
IGHV3-20*01

26 sequences assigned
23 (88.5%) exact matches, in which:
23 unique CDR3
6 unique J



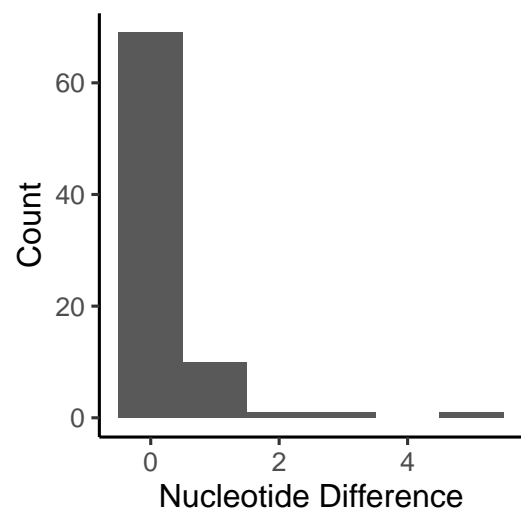
IGHV3-30-3*01

550 sequences assigned
444 (80.7%) exact matches, in which:
437 unique CDR3
6 unique J



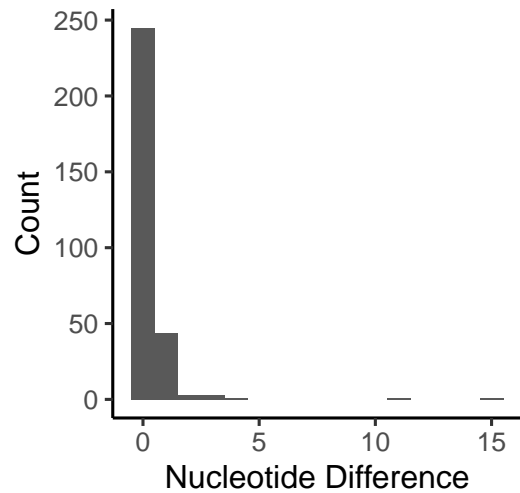
IGHV3-43*01

82 sequences assigned
69 (84.1%) exact matches, in which:
67 unique CDR3
6 unique J



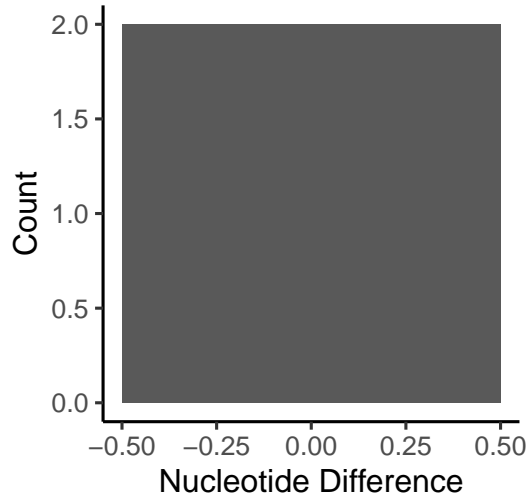
IGHV3-48*02

299 sequences assigned
245 (81.9%) exact matches, in which:
245 unique CDR3
7 unique J



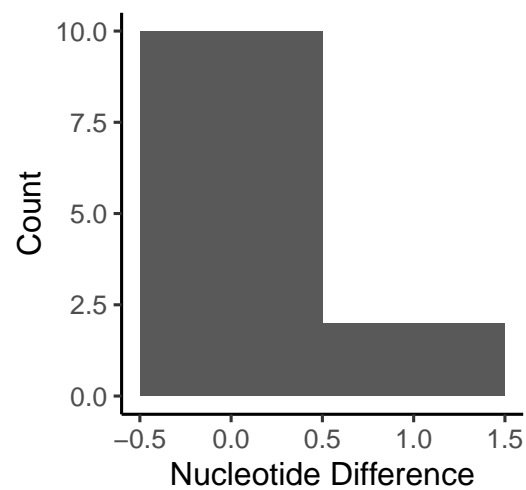
IGHV3-64*02

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



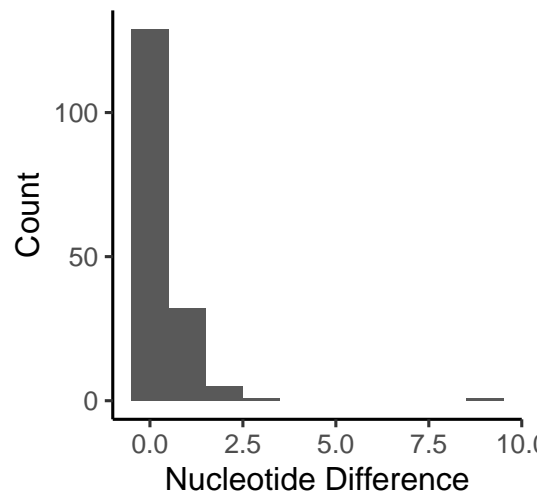
IGHV3-72*01

12 sequences assigned
10 (83.3%) exact matches, in which:
10 unique CDR3
5 unique J



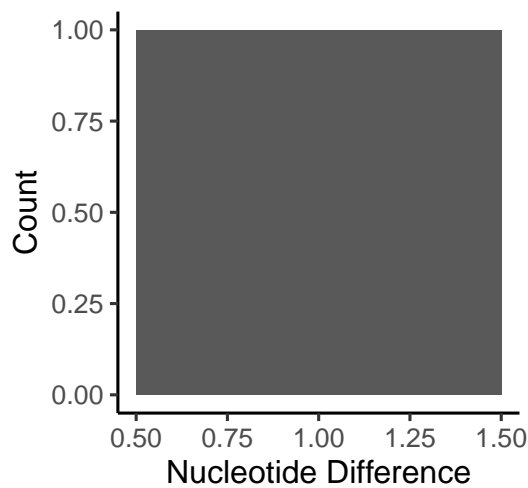
IGHV3-49*05

168 sequences assigned
129 (76.8%) exact matches, in which:
129 unique CDR3
7 unique J



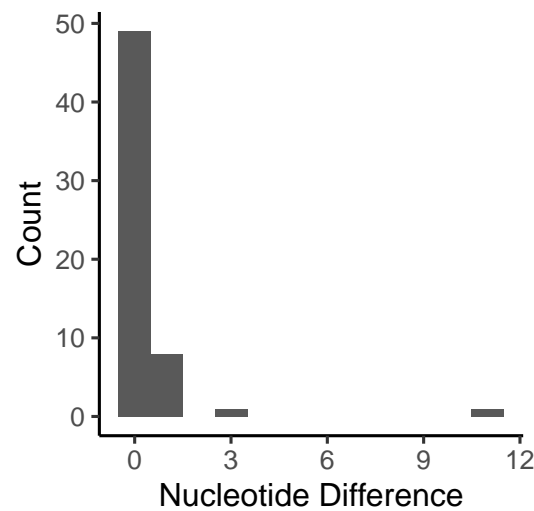
IGHV3-66*03

1 sequences assigned
No exact matches.



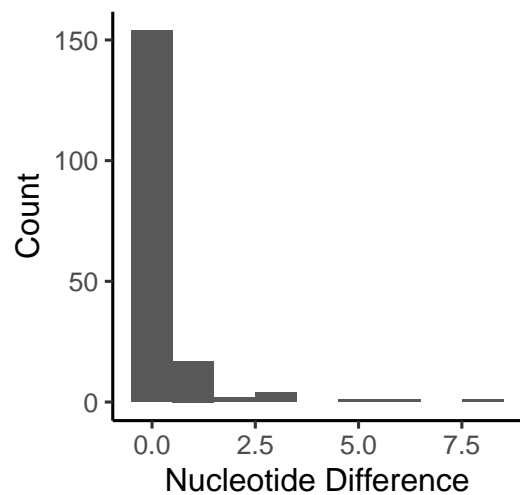
IGHV3-73*02

59 sequences assigned
49 (83.1%) exact matches, in which:
49 unique CDR3
5 unique J



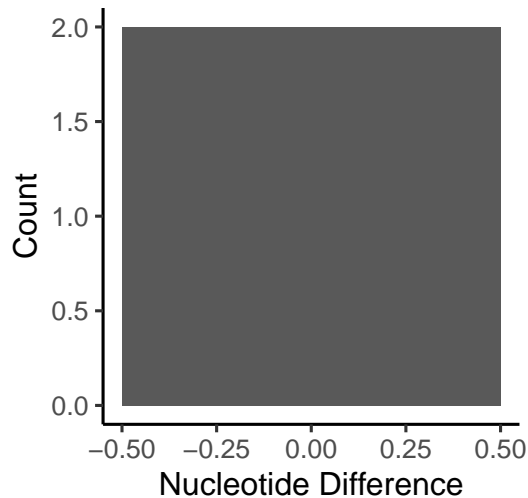
IGHV3-53*01

181 sequences assigned
154 (85.1%) exact matches, in which:
150 unique CDR3
7 unique J



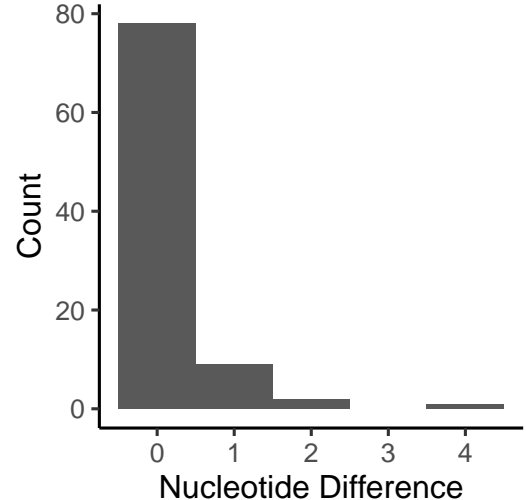
IGHV3-69-1*02

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



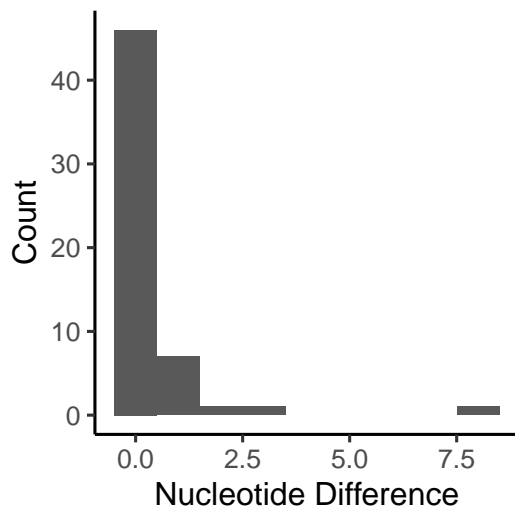
IGHV3-74*01

90 sequences assigned
78 (86.7%) exact matches, in which:
77 unique CDR3
6 unique J



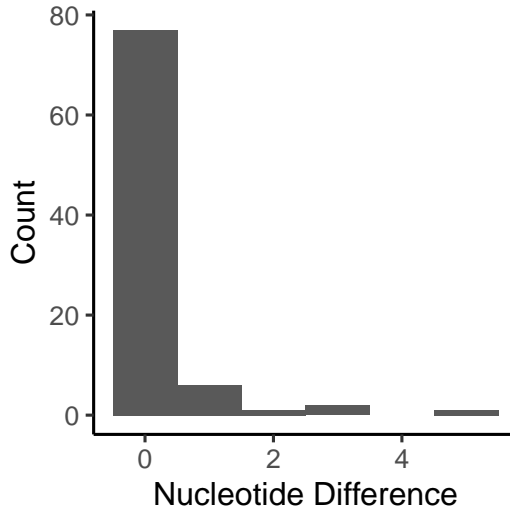
IGHV3-64D*06

56 sequences assigned
46 (82.1%) exact matches, in which:
46 unique CDR3
6 unique J



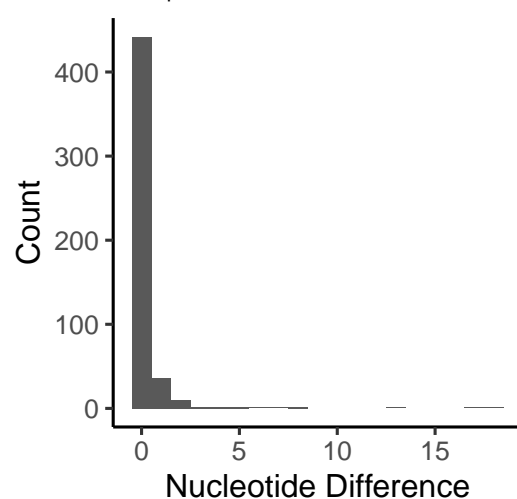
IGHV4-30-2*01

88 sequences assigned
77 (87.5%) exact matches, in which:
77 unique CDR3
6 unique J



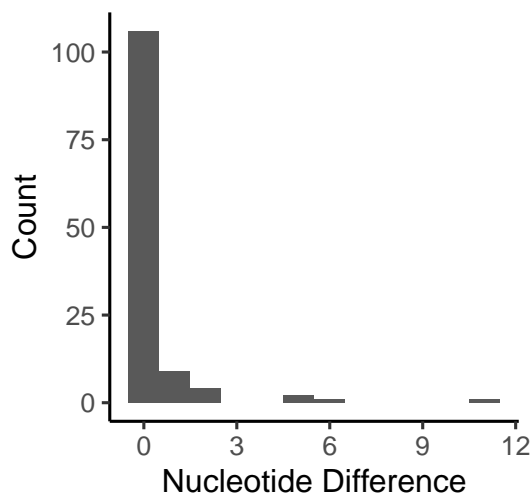
IGHV4-34*01

501 sequences assigned
442 (88.2%) exact matches, in which:
438 unique CDR3
7 unique J



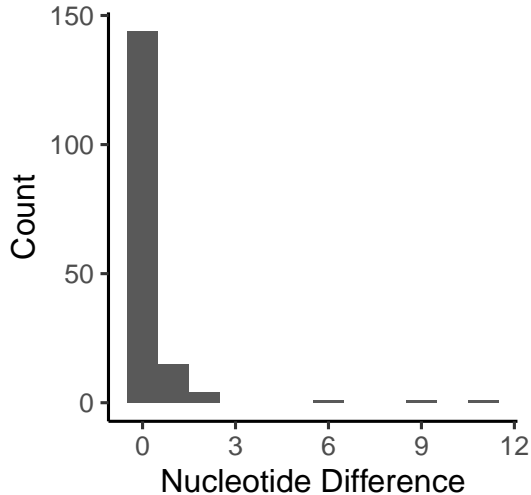
IGHV4-4*02

123 sequences assigned
106 (86.2%) exact matches, in which:
106 unique CDR3
6 unique J



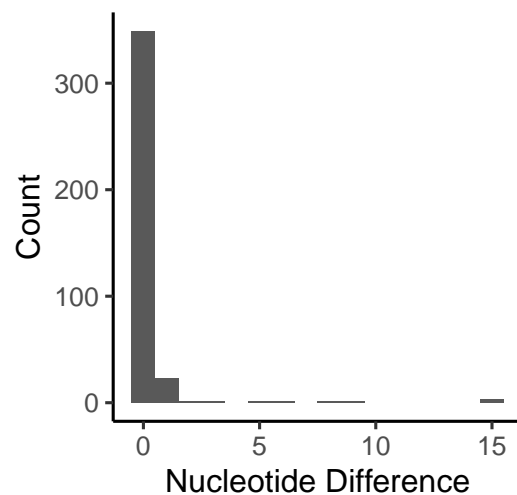
IGHV4-30-4*01

166 sequences assigned
144 (86.7%) exact matches, in which:
143 unique CDR3
6 unique J



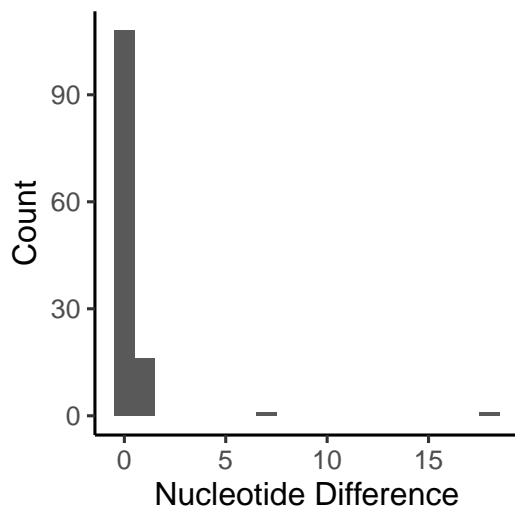
IGHV4-39*01

381 sequences assigned
349 (91.6%) exact matches, in which:
347 unique CDR3
7 unique J



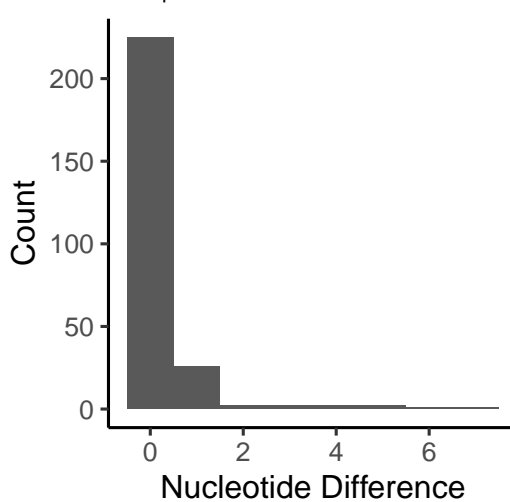
IGHV4-4*07

126 sequences assigned
108 (85.7%) exact matches, in which:
108 unique CDR3
5 unique J



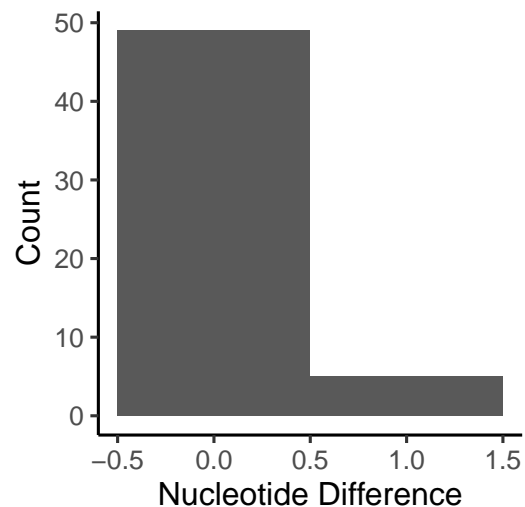
IGHV4-31*03

261 sequences assigned
225 (86.2%) exact matches, in which:
224 unique CDR3
7 unique J



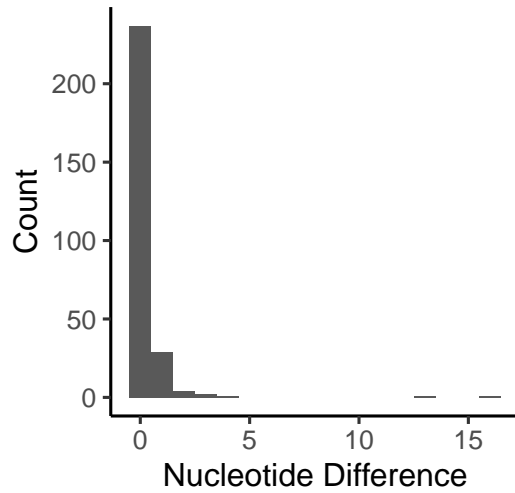
IGHV4-39*02_C258G

54 sequences assigned
49 (90.7%) exact matches, in which:
46 unique CDR3
6 unique J



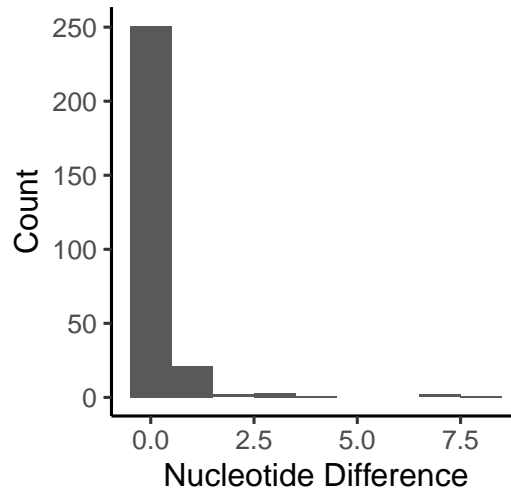
IGHV4–59*01

275 sequences assigned
237 (86.2%) exact matches, in which:
236 unique CDR3
7 unique J



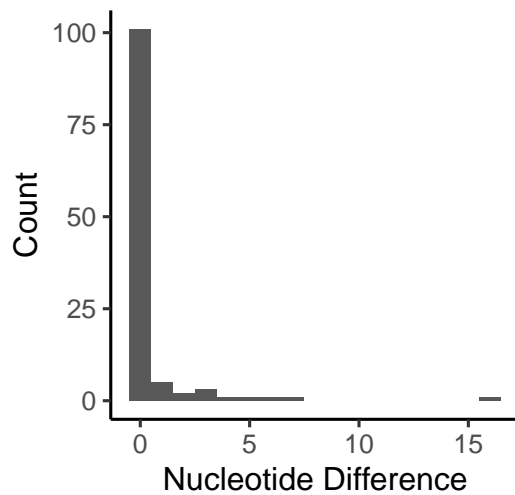
IGHV5–51*01

281 sequences assigned
251 (89.3%) exact matches, in which:
250 unique CDR3
7 unique J



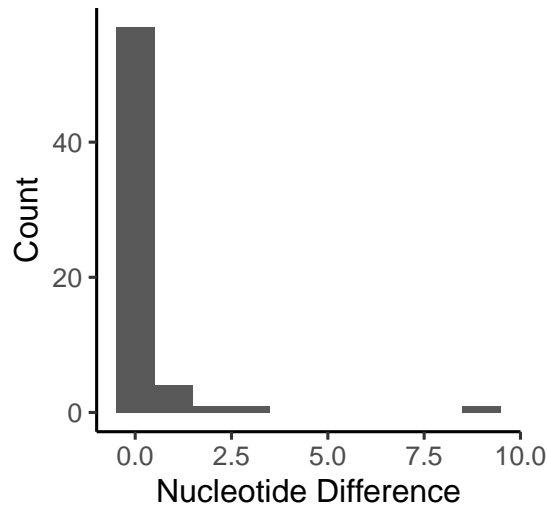
IGHV4–61*01

116 sequences assigned
101 (87.1%) exact matches, in which:
100 unique CDR3
7 unique J



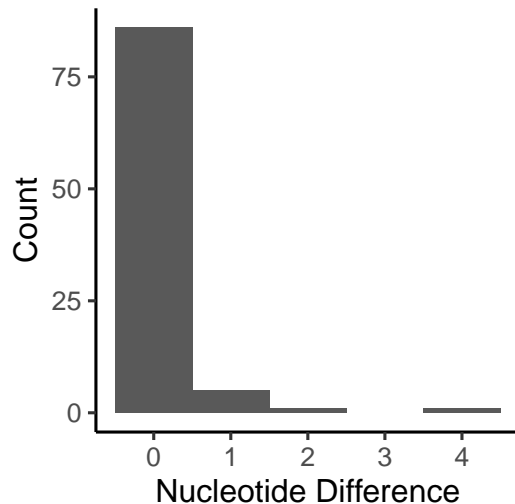
IGHV6–1*01

64 sequences assigned
57 (89.1%) exact matches, in which:
57 unique CDR3
5 unique J



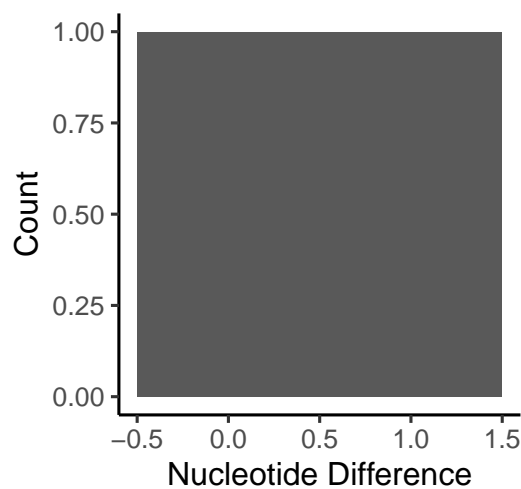
IGHV5–10–1*01

93 sequences assigned
86 (92.5%) exact matches, in which:
86 unique CDR3
6 unique J

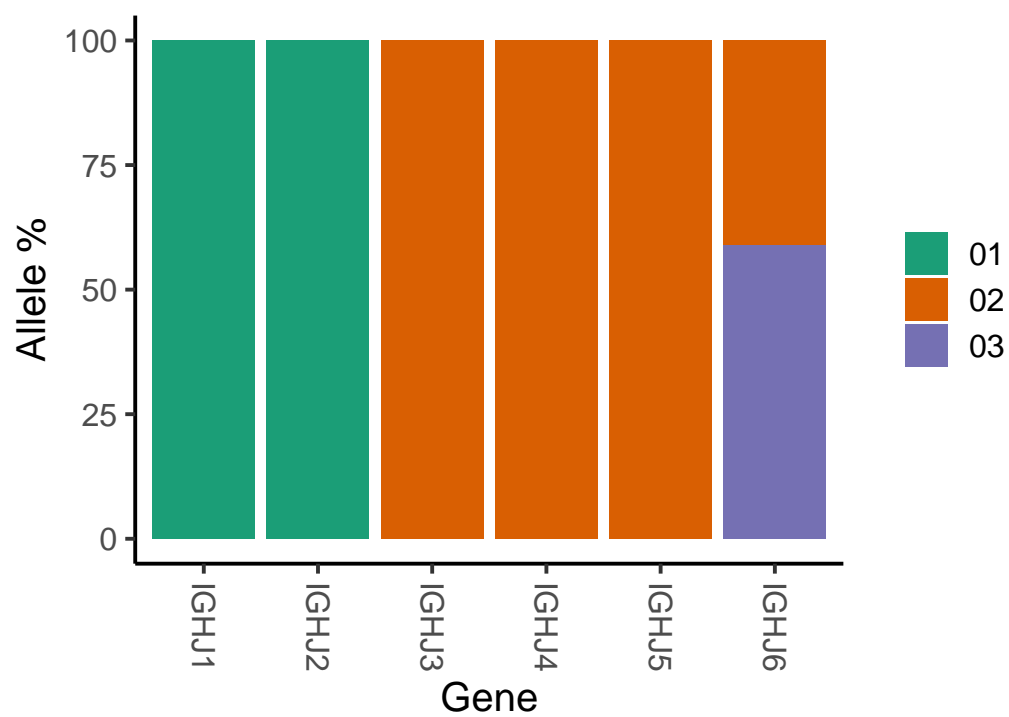


IGHV7–4–1*01

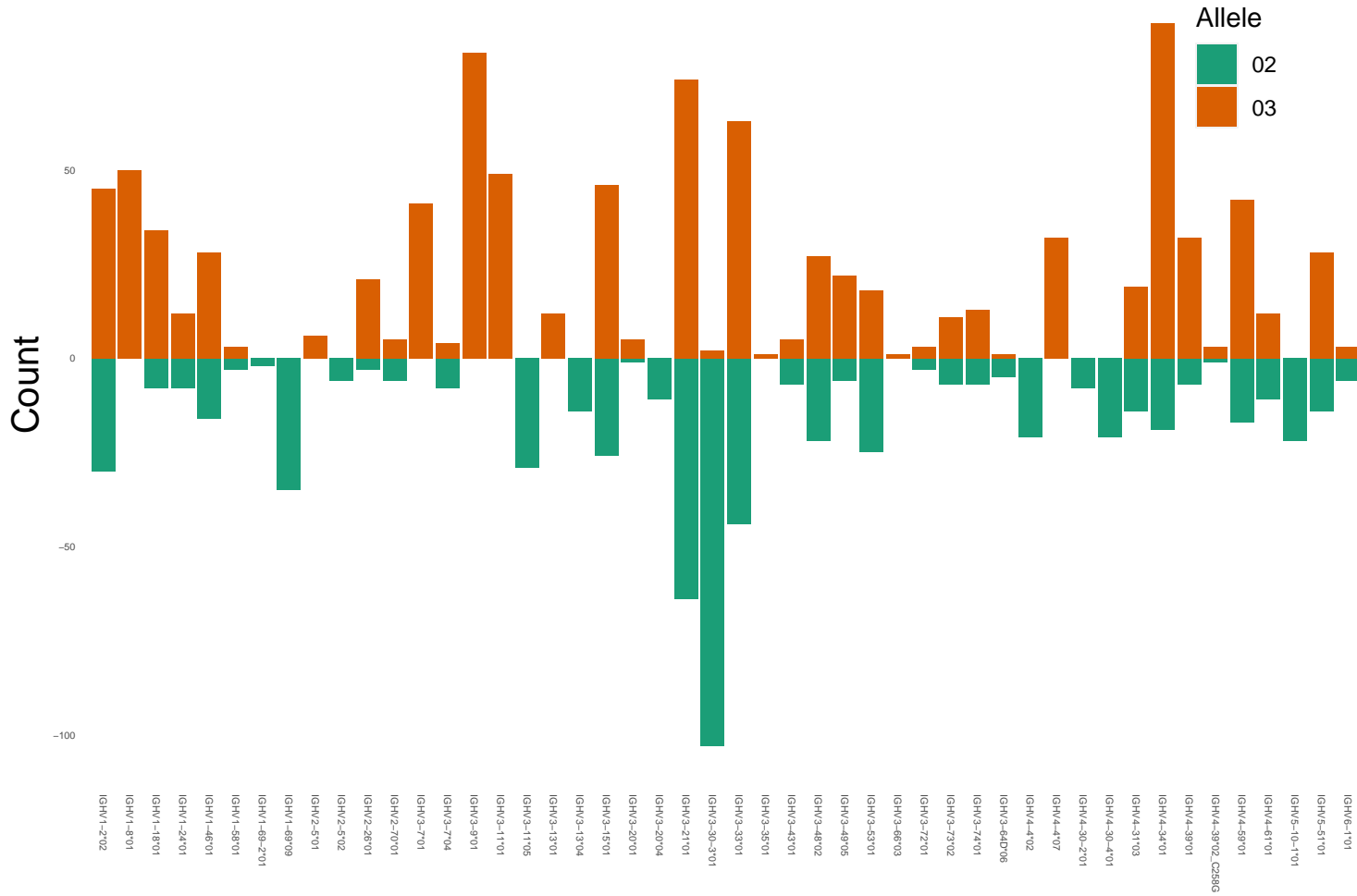
2 sequences assigned
1 (50%) exact matches, in which:
1 unique CDR3
1 unique J



Allele Usage



Sequence Count by IGHJ6 allele usage



Warning – no inferred sequences found.