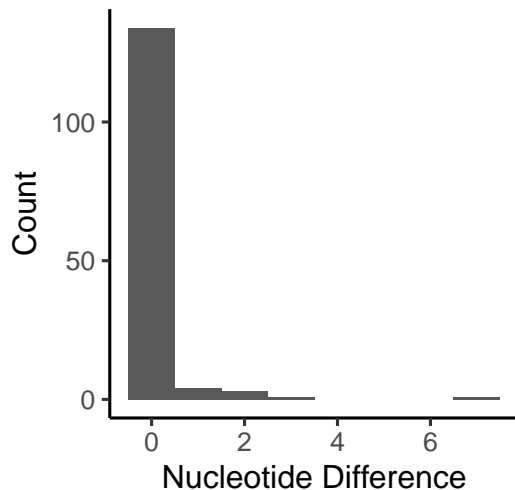


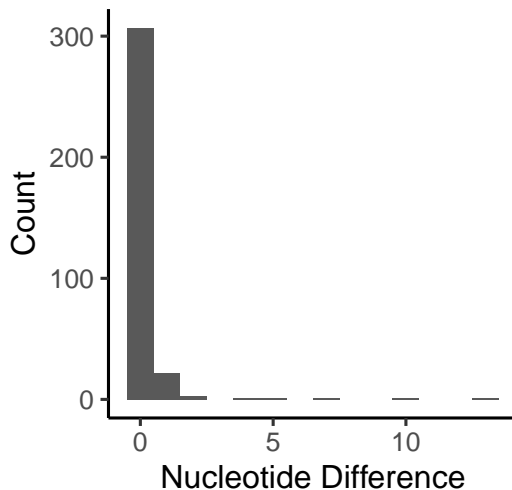
IGHV1-2*04

143 sequences assigned
134 (93.7%) exact matches, in which:
134 unique CDR3
6 unique J



IGHV1-18*01

337 sequences assigned
307 (91.1%) exact matches, in which:
307 unique CDR3
6 unique J



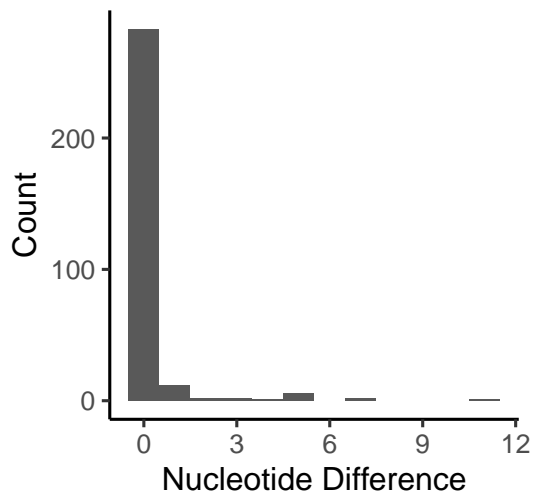
IGHV1-45*02

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



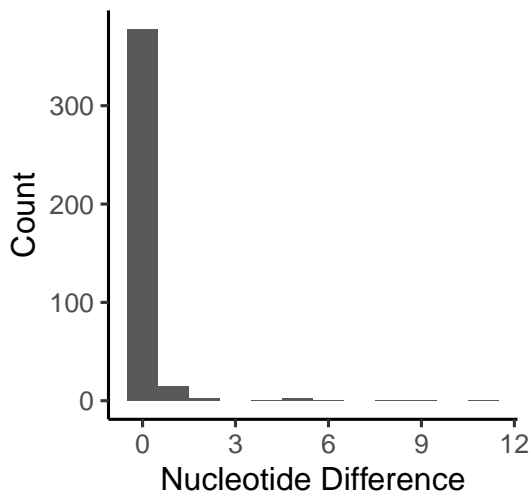
IGHV1-3*01

312 sequences assigned
283 (90.7%) exact matches, in which:
282 unique CDR3
7 unique J



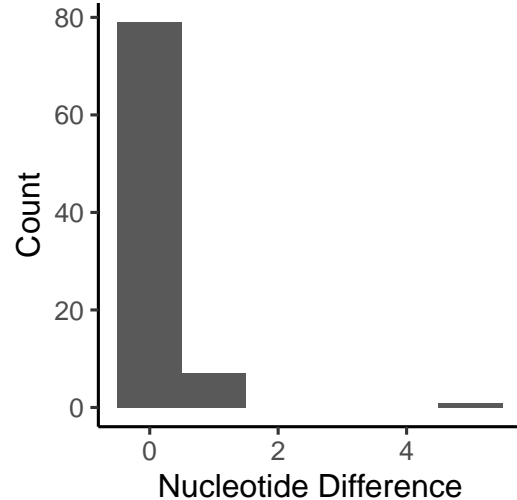
IGHV1-18*04

404 sequences assigned
378 (93.6%) exact matches, in which:
378 unique CDR3
7 unique J



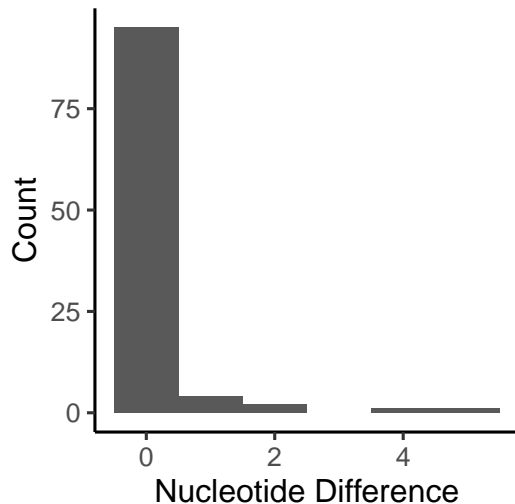
IGHV1-46*01

88 sequences assigned
79 (89.8%) exact matches, in which:
78 unique CDR3
6 unique J



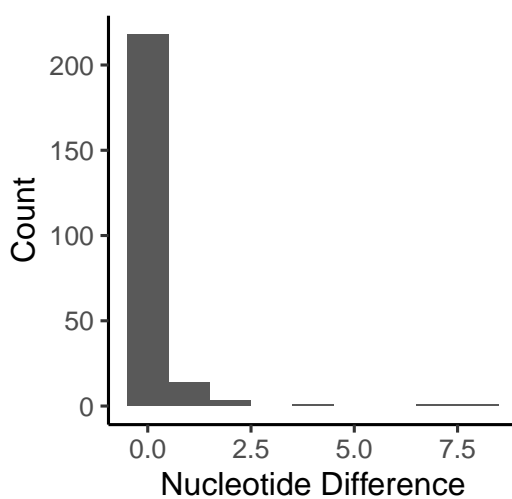
IGHV1-8*01

103 sequences assigned
95 (92.2%) exact matches, in which:
95 unique CDR3
5 unique J



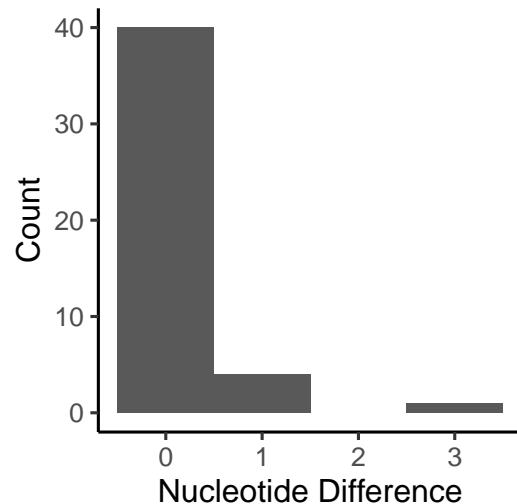
IGHV1-24*01

238 sequences assigned
218 (91.6%) exact matches, in which:
217 unique CDR3
7 unique J



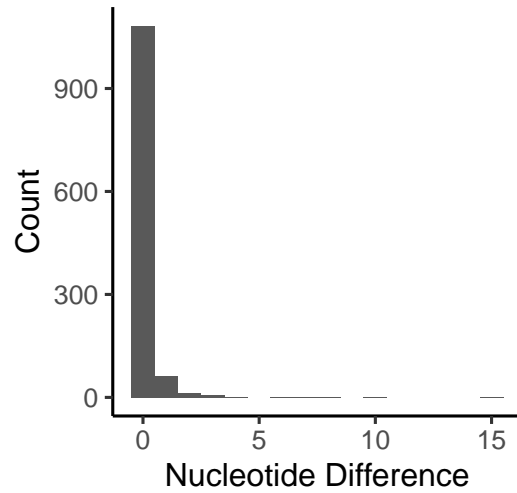
IGHV1-58*01

45 sequences assigned
40 (88.9%) exact matches, in which:
40 unique CDR3
5 unique J



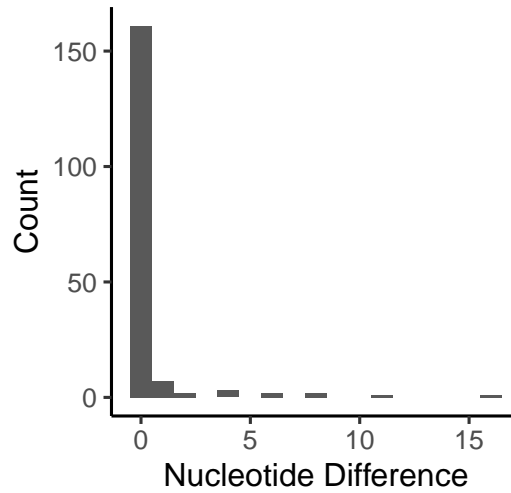
IGHV1–69*01

1173 sequences assigned
1083 (92.3%) exact matches, in which:
1083 unique CDR3
7 unique J



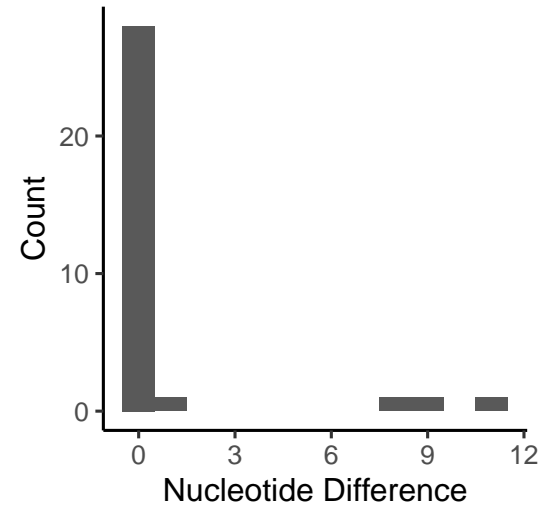
IGHV2–5*02

179 sequences assigned
161 (89.9%) exact matches, in which:
161 unique CDR3
7 unique J



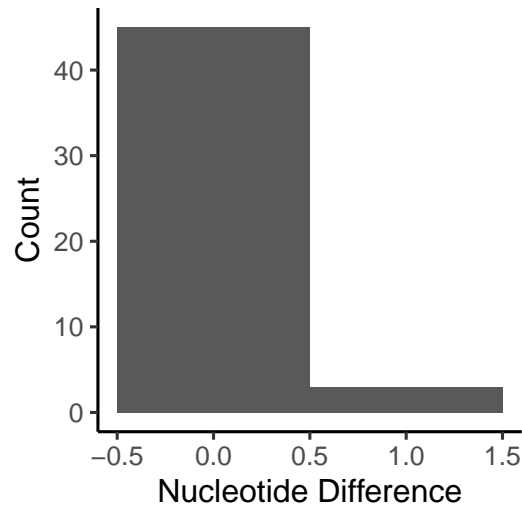
IGHV2–70*04

32 sequences assigned
28 (87.5%) exact matches, in which:
28 unique CDR3
4 unique J



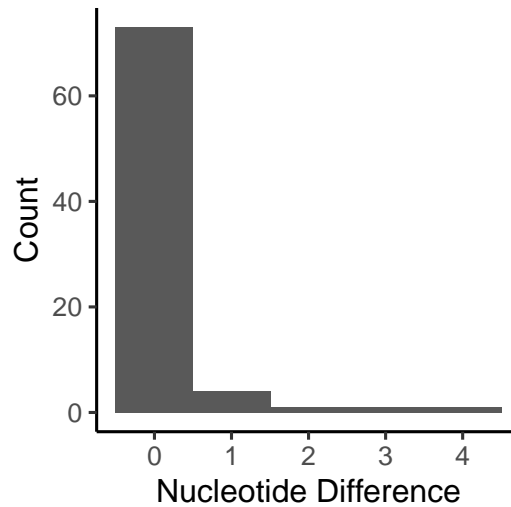
IGHV1–69–2*01

48 sequences assigned
45 (93.8%) exact matches, in which:
45 unique CDR3
6 unique J



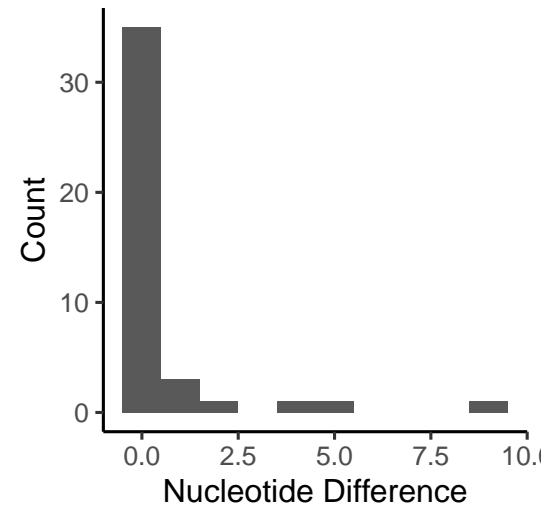
IGHV2–26*01

80 sequences assigned
73 (91.2%) exact matches, in which:
73 unique CDR3
6 unique J



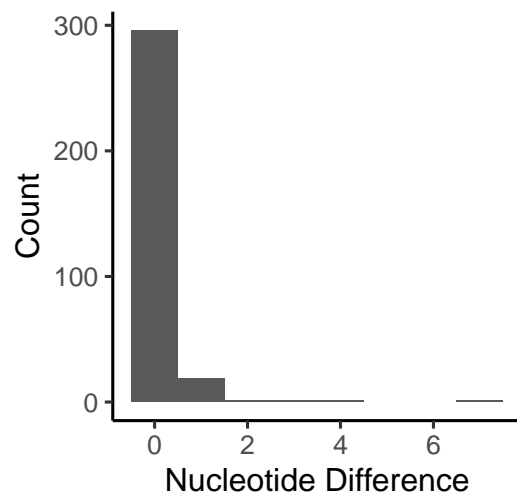
IGHV3–7*01

42 sequences assigned
35 (83.3%) exact matches, in which:
35 unique CDR3
5 unique J



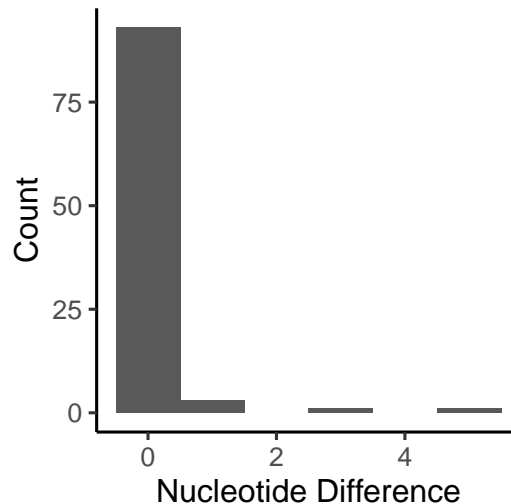
IGHV1–69*17

319 sequences assigned
296 (92.8%) exact matches, in which:
294 unique CDR3
7 unique J



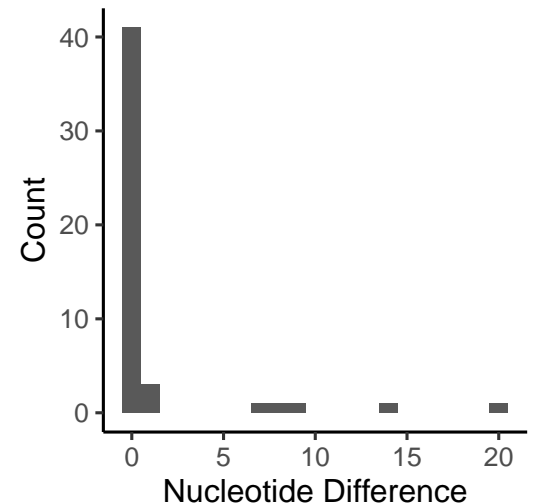
IGHV2–70*01

98 sequences assigned
93 (94.9%) exact matches, in which:
93 unique CDR3
5 unique J



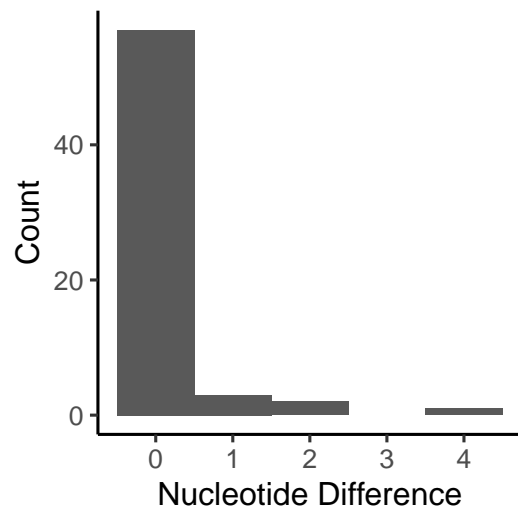
IGHV3–7*03

49 sequences assigned
41 (83.7%) exact matches, in which:
41 unique CDR3
5 unique J



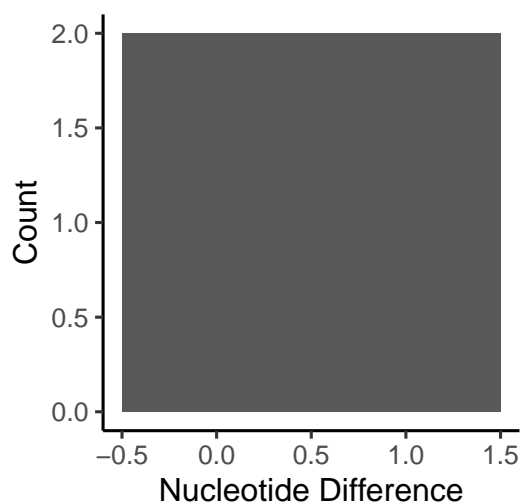
IGHV3-9*01

63 sequences assigned
57 (90.5%) exact matches, in which:
57 unique CDR3
5 unique J



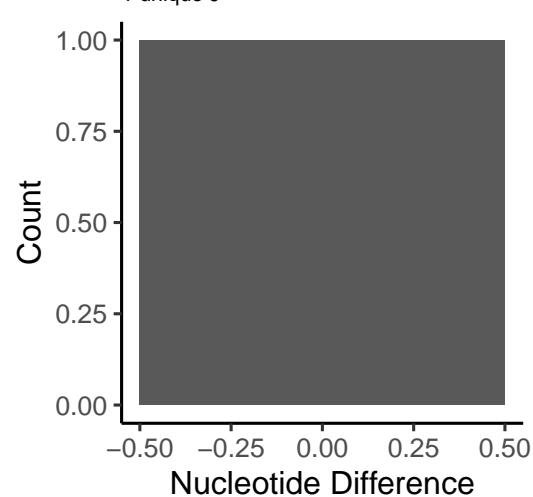
IGHV3-13*01

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



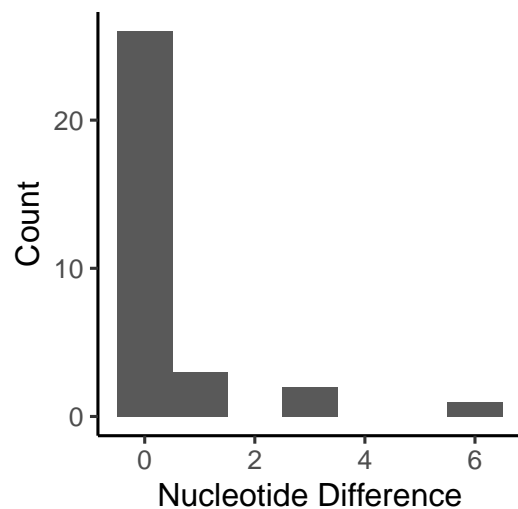
IGHV3-20*04

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



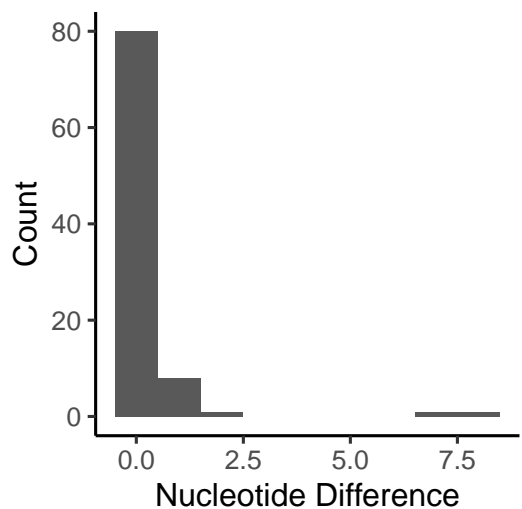
IGHV3-11*01

32 sequences assigned
26 (81.2%) exact matches, in which:
26 unique CDR3
4 unique J



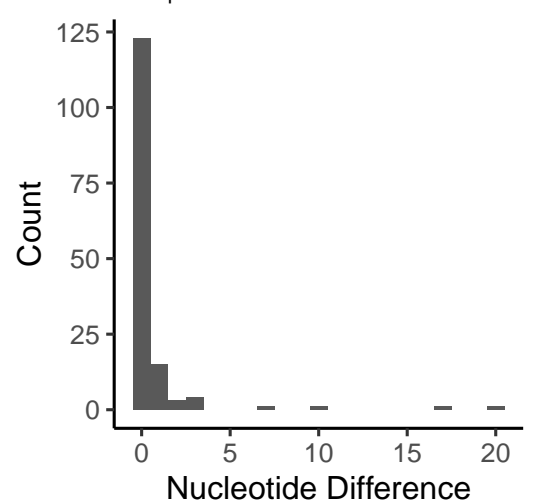
IGHV3-15*01

91 sequences assigned
80 (87.9%) exact matches, in which:
80 unique CDR3
7 unique J



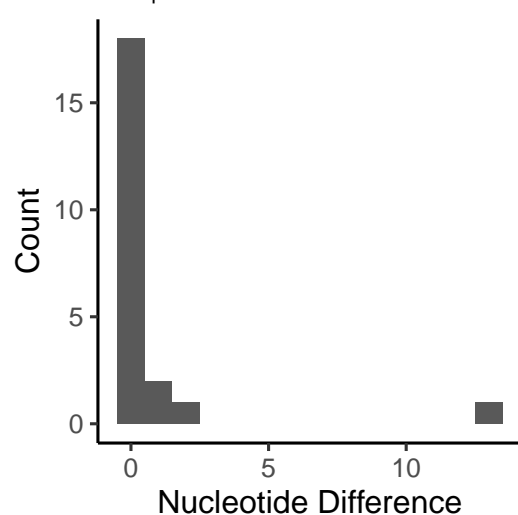
IGHV3-21*01

149 sequences assigned
123 (82.6%) exact matches, in which:
123 unique CDR3
6 unique J



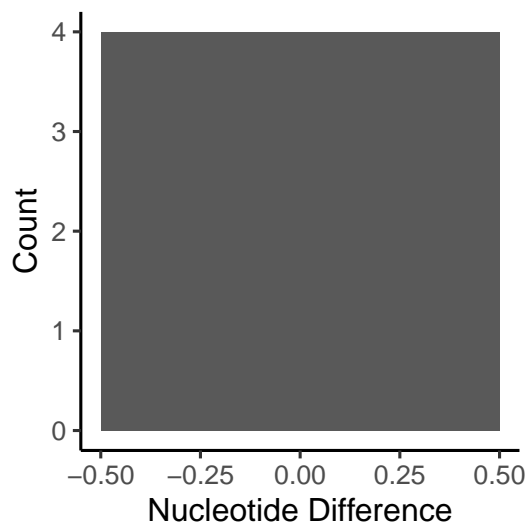
IGHV3-11*06

22 sequences assigned
18 (81.8%) exact matches, in which:
18 unique CDR3
5 unique J



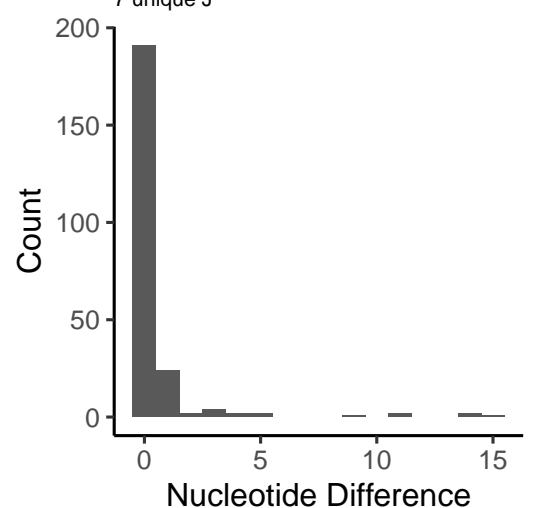
IGHV3-20*01

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



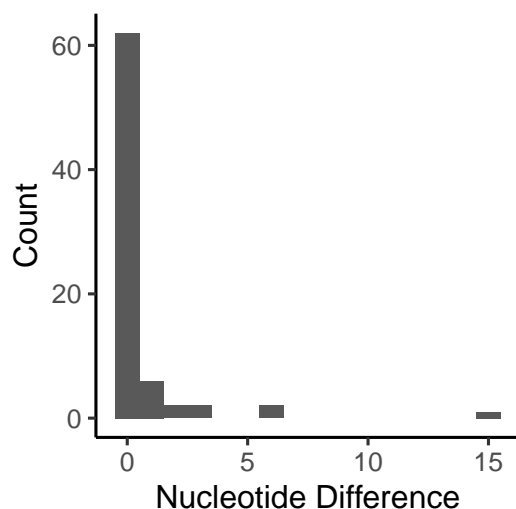
IGHV3-23*01

231 sequences assigned
191 (82.7%) exact matches, in which:
191 unique CDR3
7 unique J



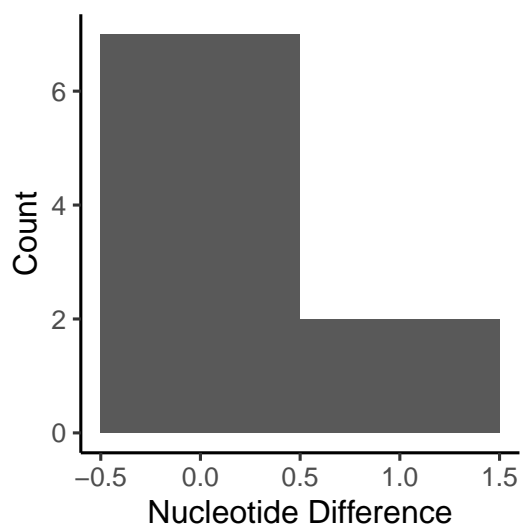
IGHV3-30-3*01

75 sequences assigned
62 (82.7%) exact matches, in which:
62 unique CDR3
5 unique J



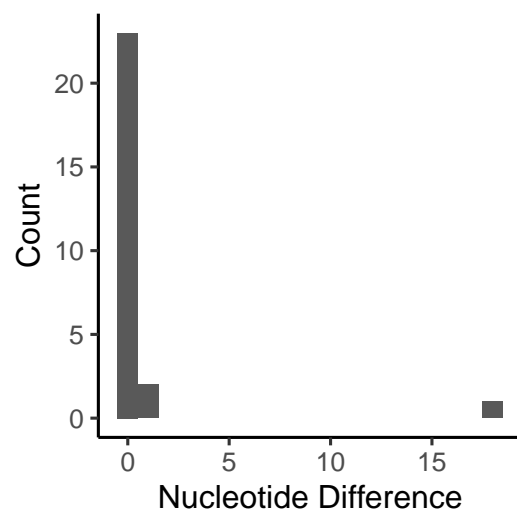
IGHV3-43*01

9 sequences assigned
7 (77.8%) exact matches, in which:
7 unique CDR3
2 unique J



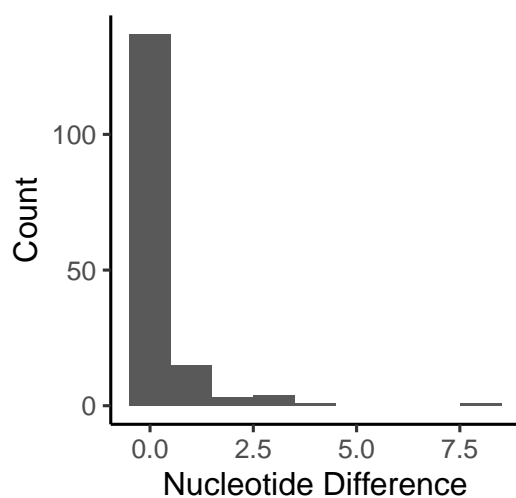
IGHV3-49*04

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



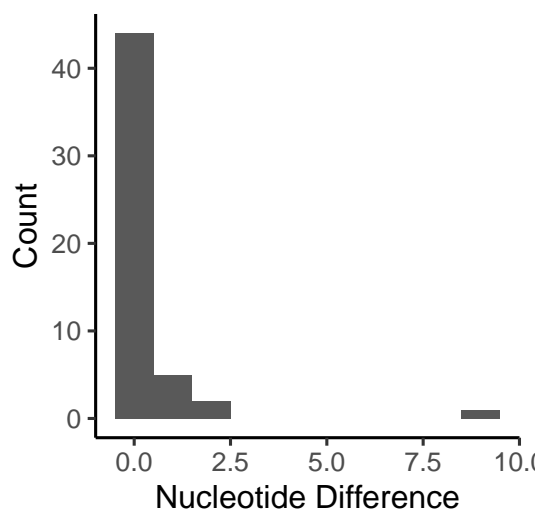
IGHV3-30*18

161 sequences assigned
137 (85.1%) exact matches, in which:
137 unique CDR3
5 unique J



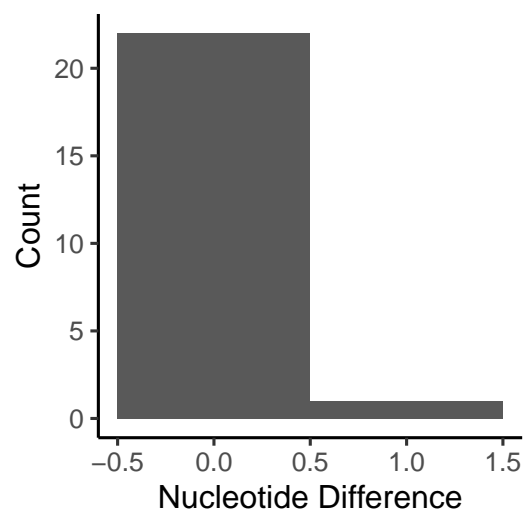
IGHV3-48*02

52 sequences assigned
44 (84.6%) exact matches, in which:
44 unique CDR3
5 unique J



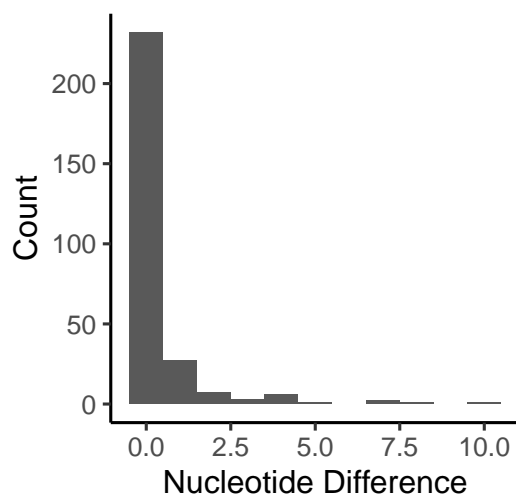
IGHV3-49*05

23 sequences assigned
22 (95.7%) exact matches, in which:
22 unique CDR3
5 unique J



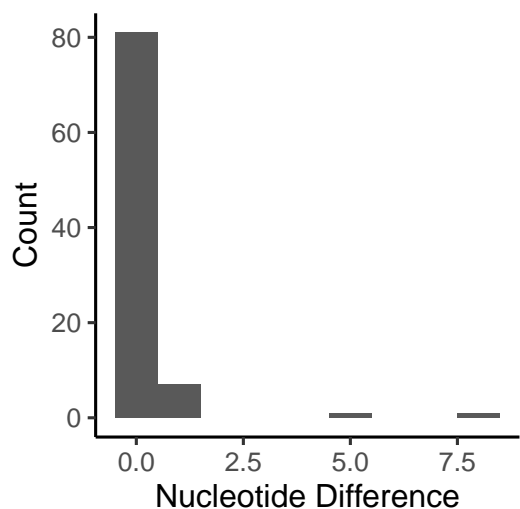
IGHV3-33*01

281 sequences assigned
232 (82.6%) exact matches, in which:
232 unique CDR3
7 unique J



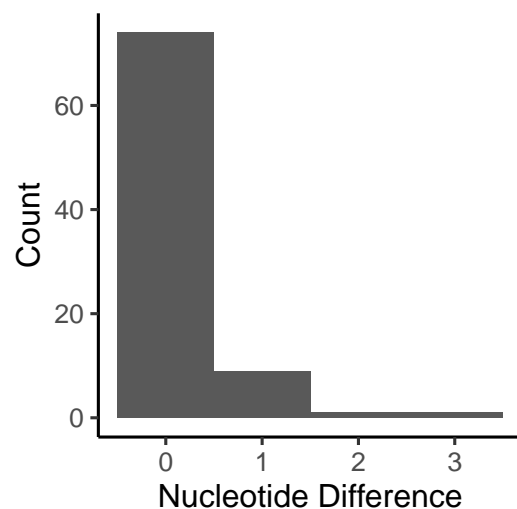
IGHV3-48*03

90 sequences assigned
81 (90%) exact matches, in which:
81 unique CDR3
5 unique J



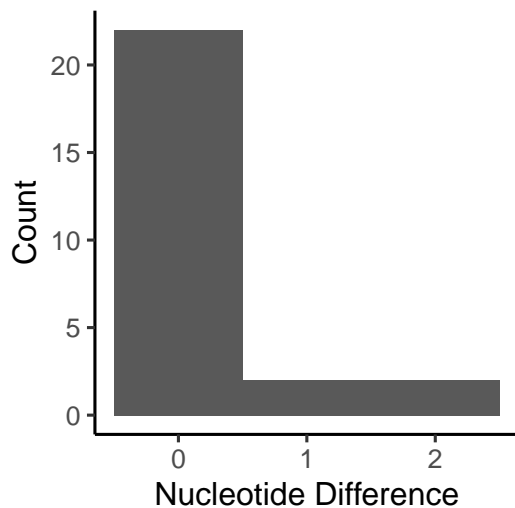
IGHV3-53*01

85 sequences assigned
74 (87.1%) exact matches, in which:
74 unique CDR3
6 unique J



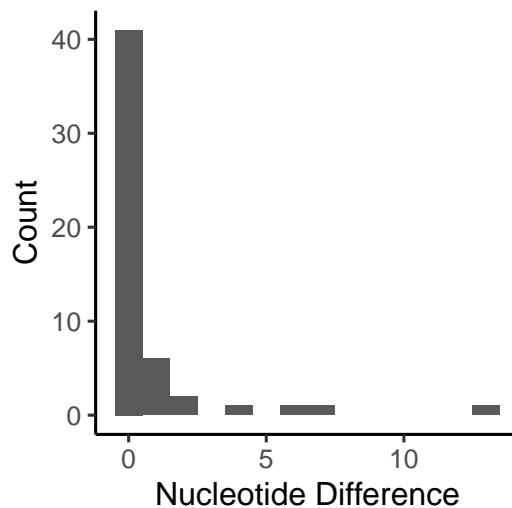
IGHV3-53*02

26 sequences assigned
22 (84.6%) exact matches, in which:
22 unique CDR3
5 unique J



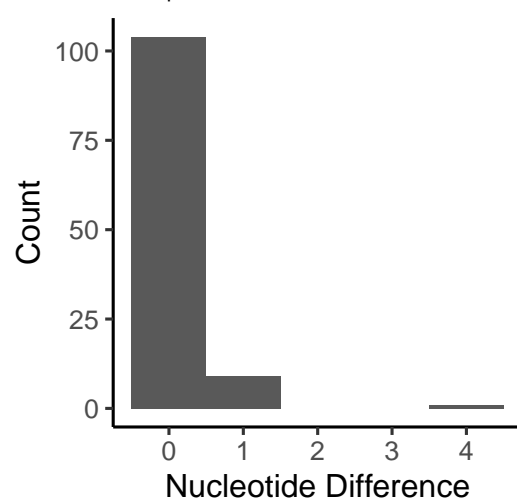
IGHV3-74*01

55 sequences assigned
41 (74.5%) exact matches, in which:
41 unique CDR3
5 unique J



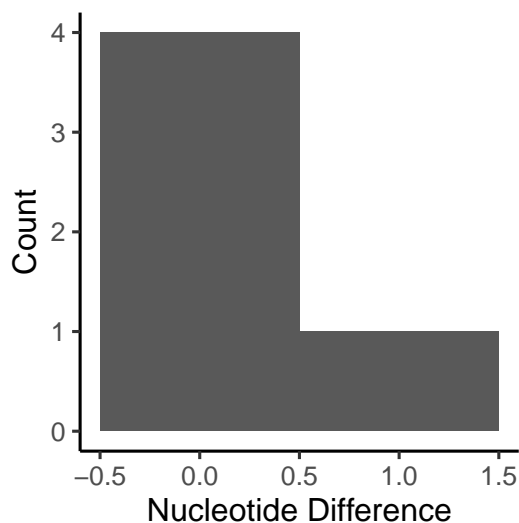
IGHV4-4*02

114 sequences assigned
104 (91.2%) exact matches, in which:
104 unique CDR3
6 unique J



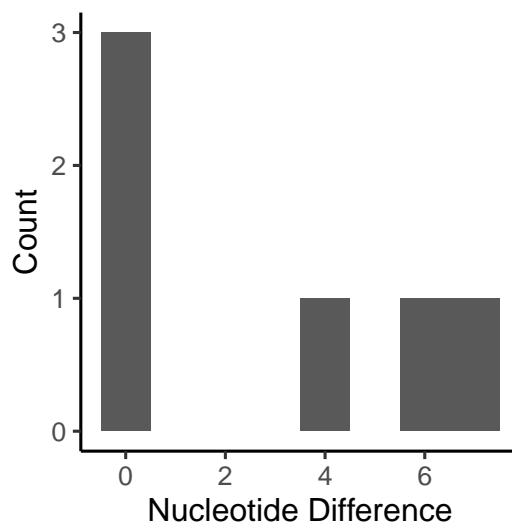
IGHV3-72*01

5 sequences assigned
4 (80%) exact matches, in which:
4 unique CDR3
2 unique J



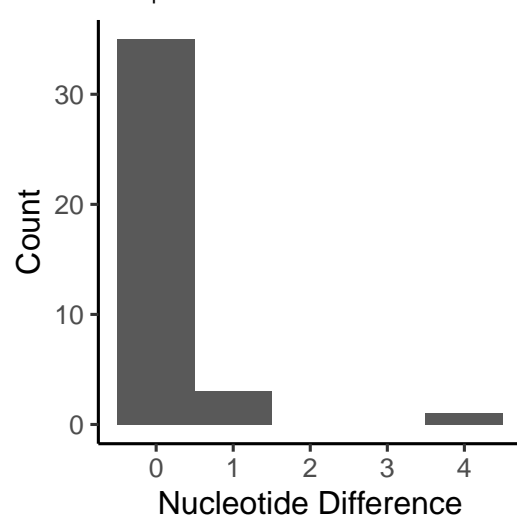
IGHV3-43D*04

6 sequences assigned
3 (50%) exact matches, in which:
3 unique CDR3
2 unique J



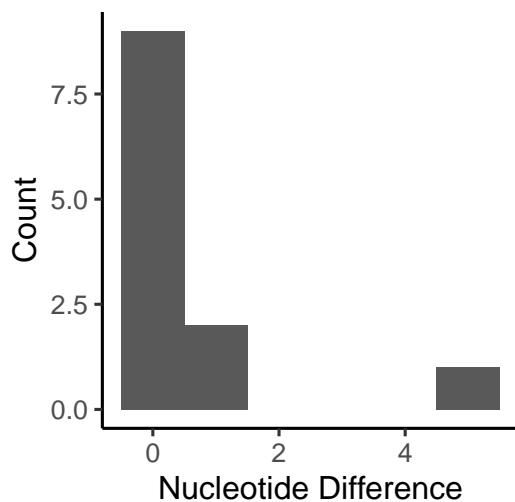
IGHV4-30-4*01

39 sequences assigned
35 (89.7%) exact matches, in which:
35 unique CDR3
5 unique J



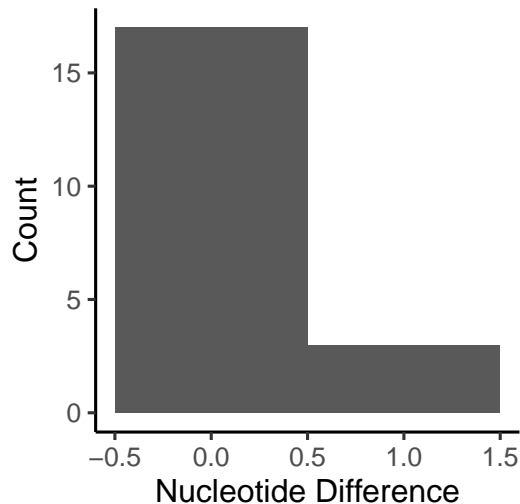
IGHV3-73*02

12 sequences assigned
9 (75%) exact matches, in which:
9 unique CDR3
3 unique J



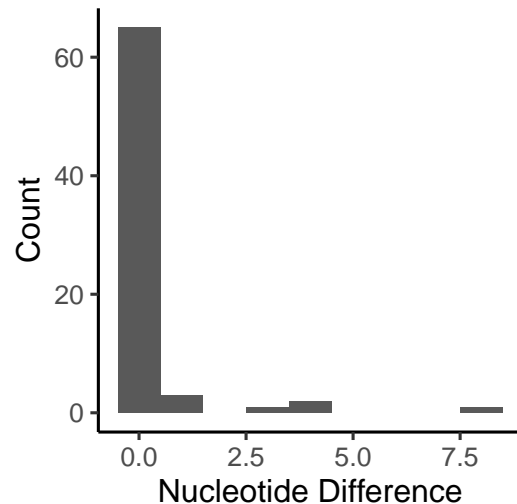
IGHV3-64D*06

20 sequences assigned
17 (85%) exact matches, in which:
17 unique CDR3
3 unique J



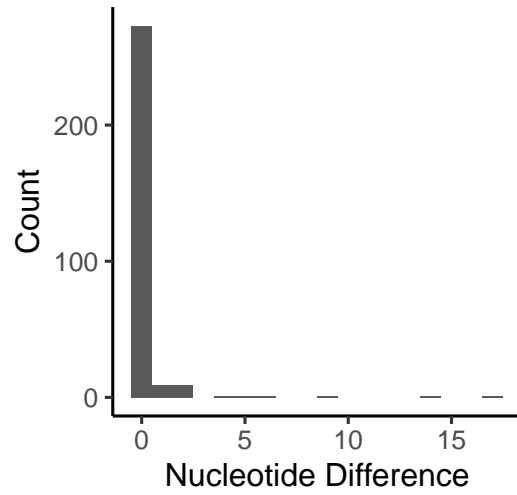
IGHV4-30-2*01

72 sequences assigned
65 (90.3%) exact matches, in which:
65 unique CDR3
7 unique J



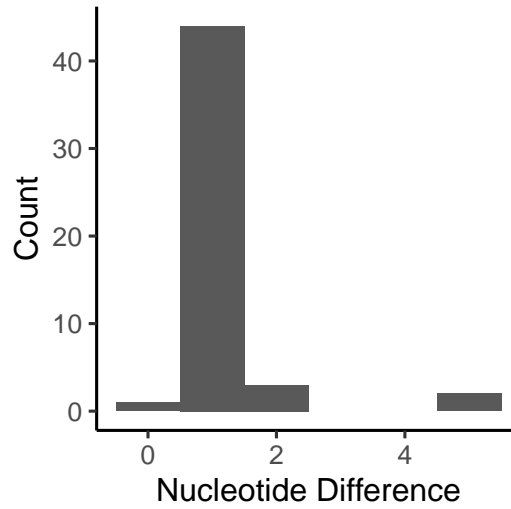
IGHV4-31*03

297 sequences assigned
273 (91.9%) exact matches, in which:
272 unique CDR3
7 unique J



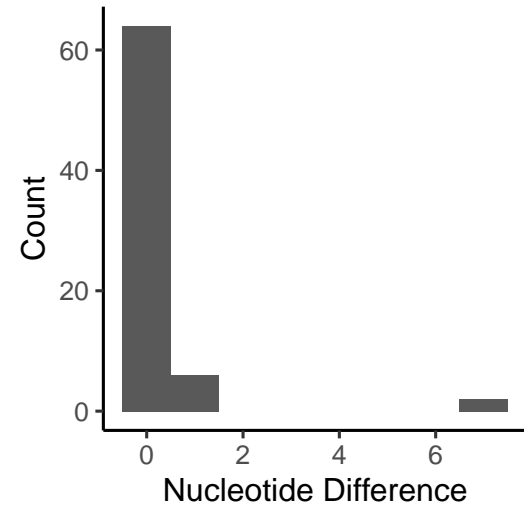
IGHV4-38-2*02

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



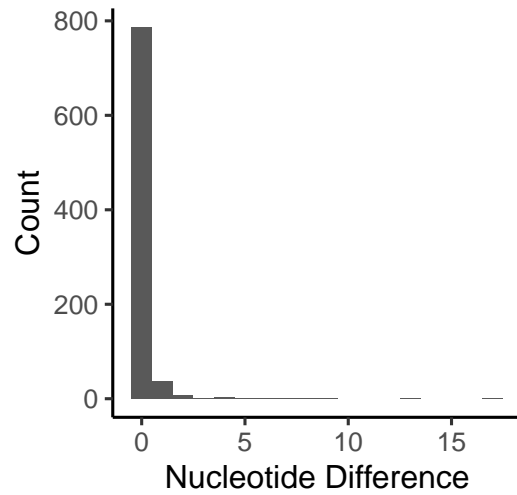
IGHV4-61*01

73 sequences assigned
64 (87.7%) exact matches, in which:
64 unique CDR3
6 unique J



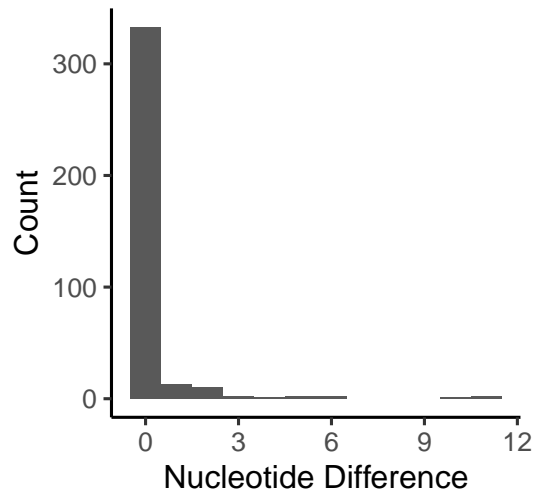
IGHV4-34*01

844 sequences assigned
787 (93.2%) exact matches, in which:
787 unique CDR3
7 unique J



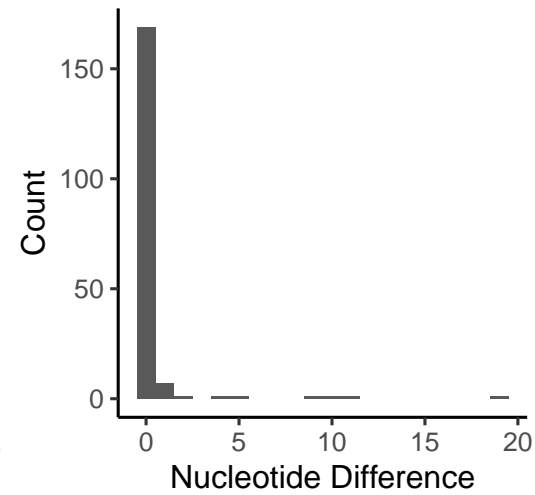
IGHV4-39*01

366 sequences assigned
333 (91%) exact matches, in which:
332 unique CDR3
6 unique J



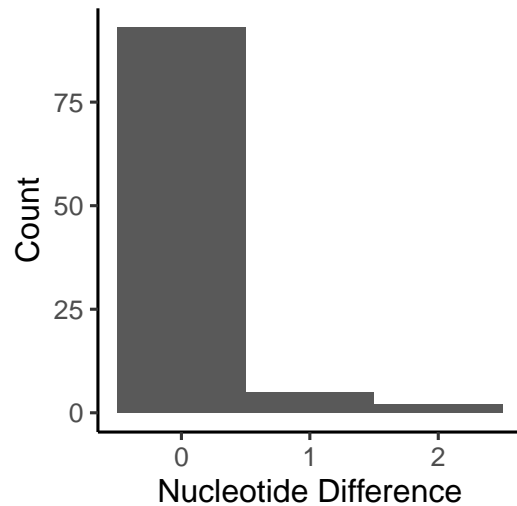
IGHV5-10-1*03

184 sequences assigned
169 (91.8%) exact matches, in which:
169 unique CDR3
5 unique J



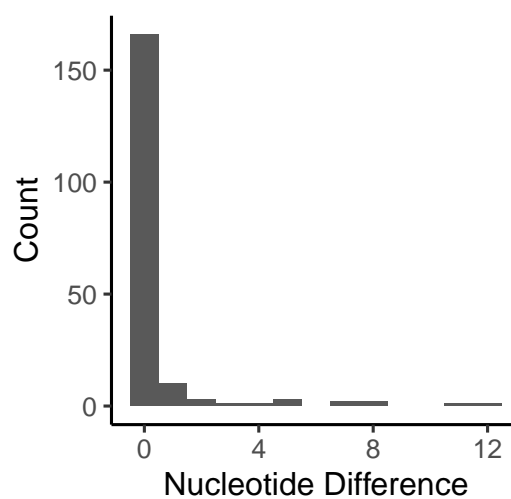
IGHV4-38-2*01

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



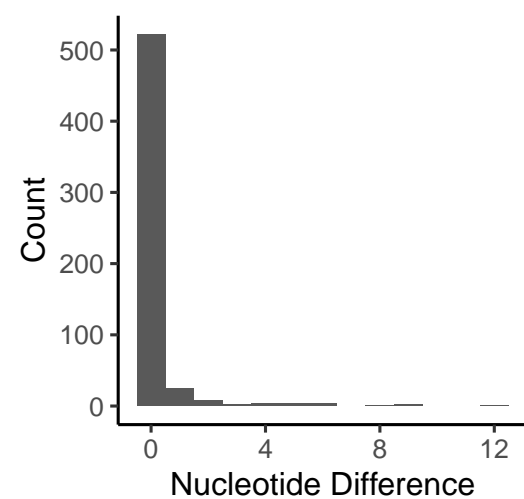
IGHV4-59*01

192 sequences assigned
166 (86.5%) exact matches, in which:
165 unique CDR3
7 unique J



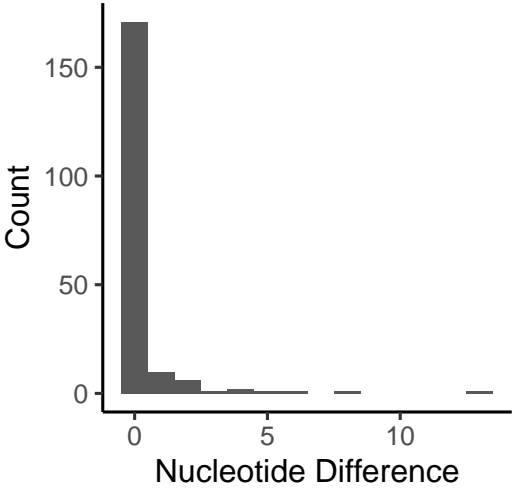
IGHV5-51*01

571 sequences assigned
522 (91.4%) exact matches, in which:
522 unique CDR3
7 unique J



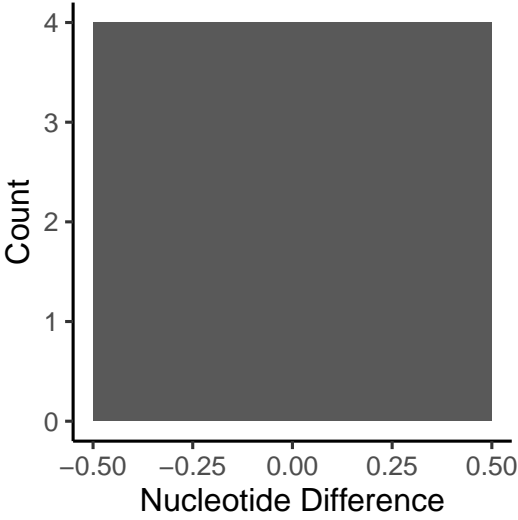
IGHV6-1*01

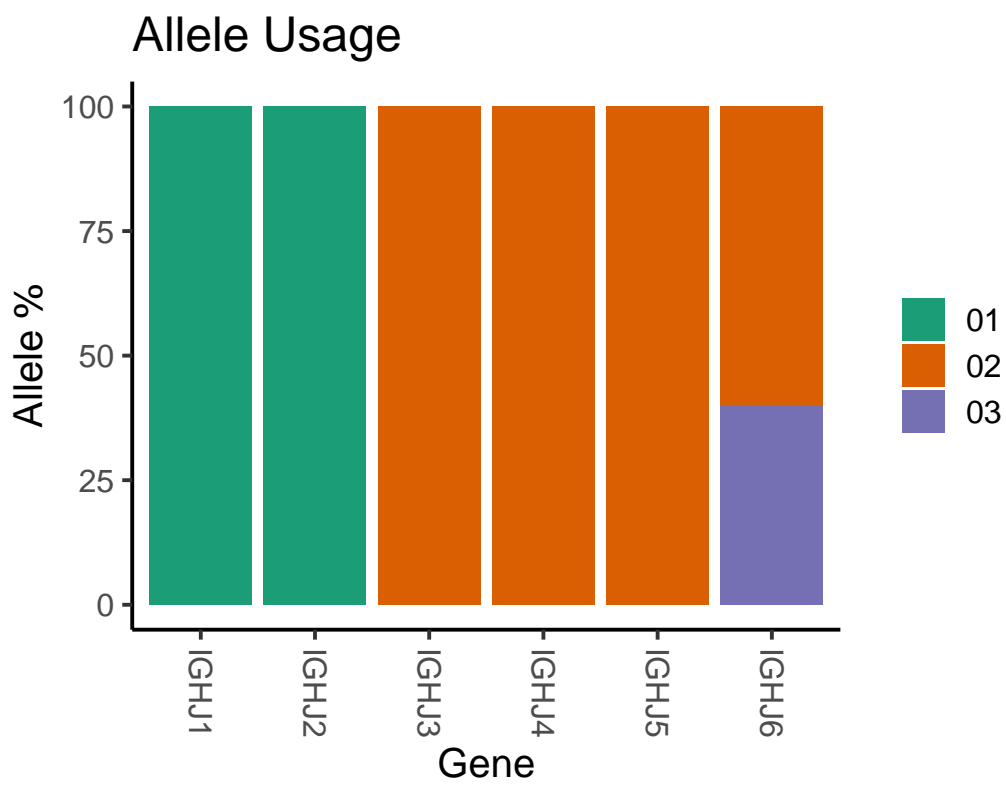
194 sequences assigned
171 (88.1%) exact matches, in which:
171 unique CDR3
6 unique J



IGHV7-4-1*01

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





Sequence Count by IGHJ6 allele usage



Warning – no inferred sequences found.