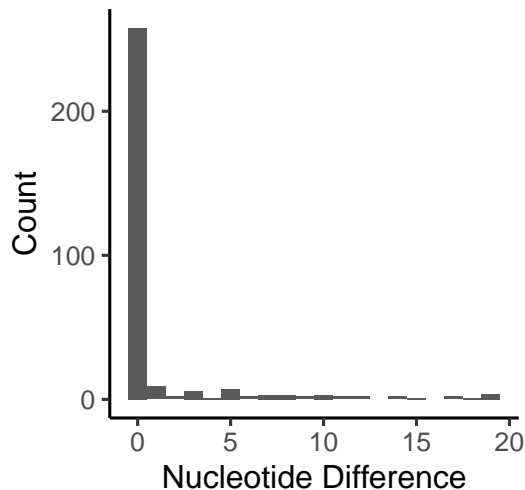


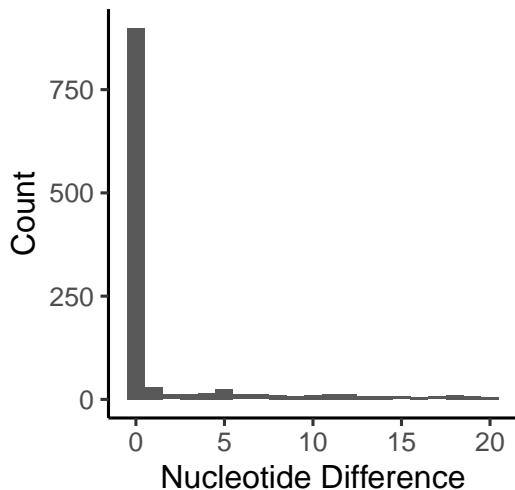
IGHV1–2*04

316 sequences assigned
258 (81.6%) exact matches, in which:
256 unique CDR3
7 unique J



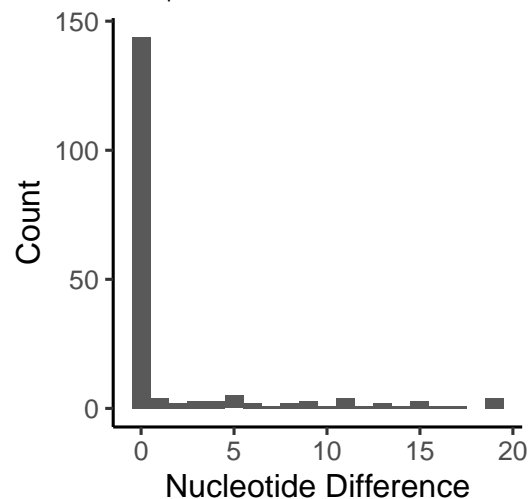
IGHV1–18*01

1162 sequences assigned
900 (77.5%) exact matches, in which:
897 unique CDR3
7 unique J



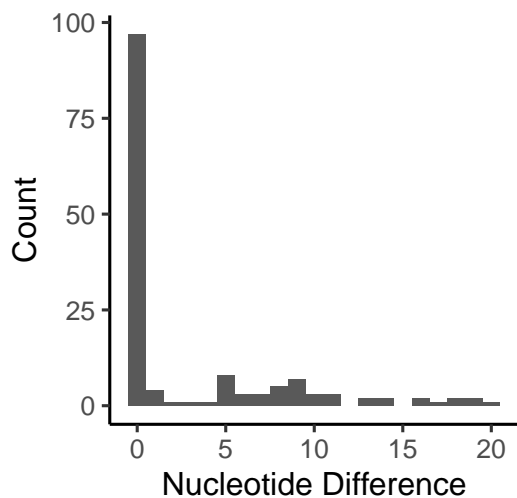
IGHV1–46*01

189 sequences assigned
144 (76.2%) exact matches, in which:
144 unique CDR3
6 unique J



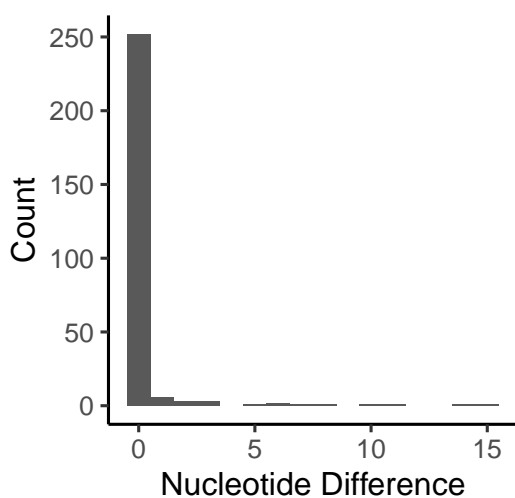
IGHV1–3*01_05

149 sequences assigned
97 (65.1%) exact matches, in which:
97 unique CDR3
4 unique J



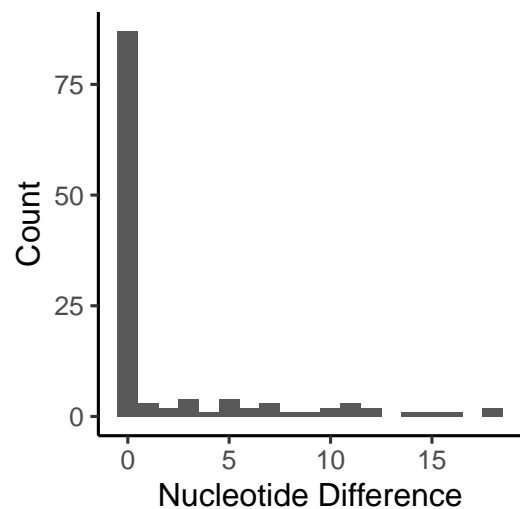
IGHV1–24*01

275 sequences assigned
252 (91.6%) exact matches, in which:
252 unique CDR3
6 unique J



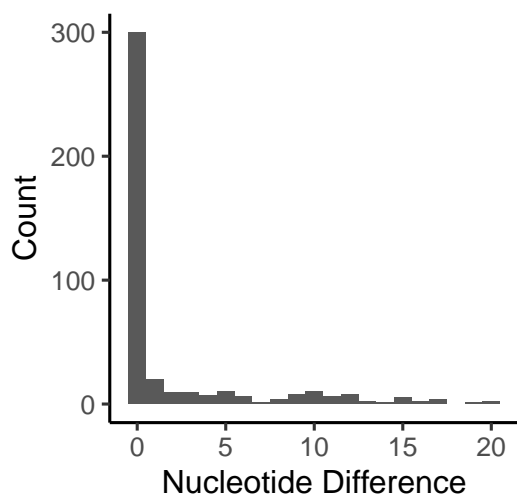
IGHV1–46*03

121 sequences assigned
87 (71.9%) exact matches, in which:
87 unique CDR3
4 unique J



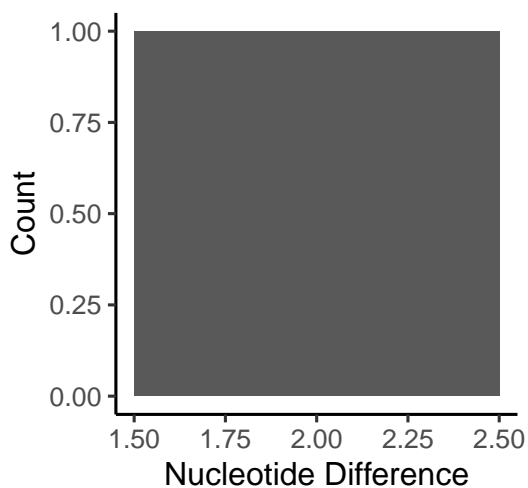
IGHV1–8*01

416 sequences assigned
300 (72.1%) exact matches, in which:
300 unique CDR3
7 unique J



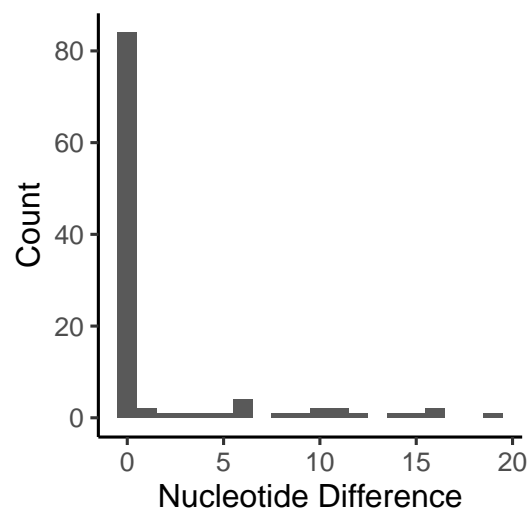
IGHV1–45*02

1 sequences assigned
No exact matches.



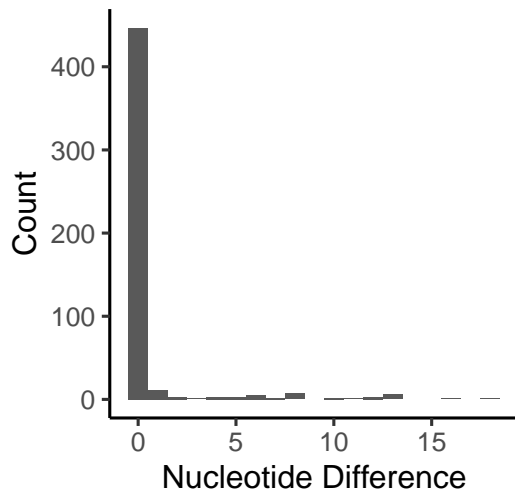
IGHV1–58*01_03

110 sequences assigned
84 (76.4%) exact matches, in which:
84 unique CDR3
6 unique J



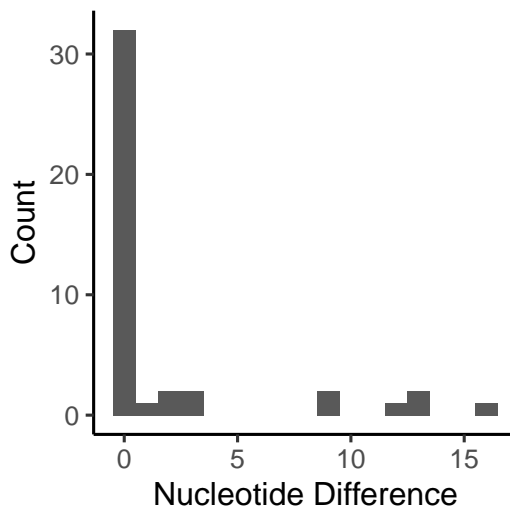
IGHV1–69*06_14

502 sequences assigned
447 (89%) exact matches, in which:
447 unique CDR3
6 unique J



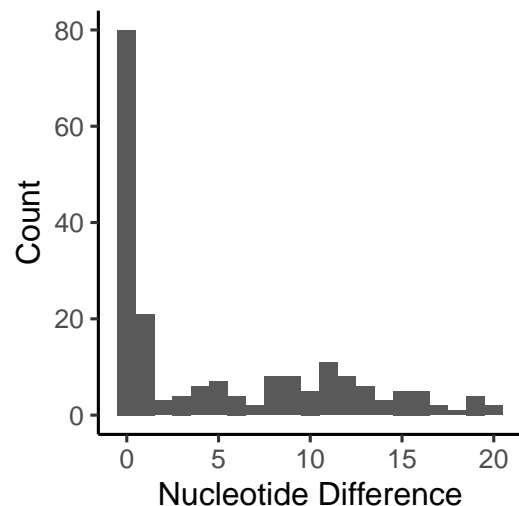
IGHV2–26*01

43 sequences assigned
32 (74.4%) exact matches, in which:
32 unique CDR3
6 unique J



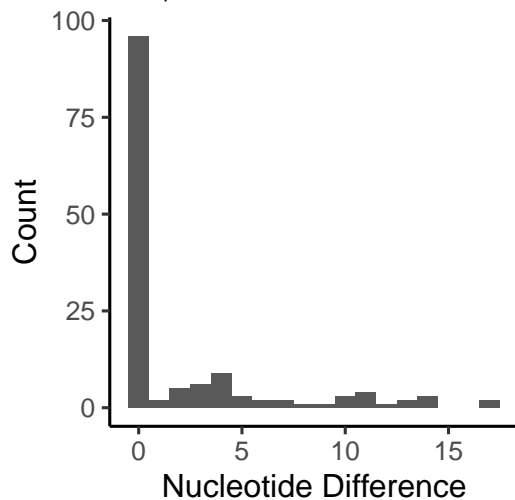
IGHV3–7*04

203 sequences assigned
80 (39.4%) exact matches, in which:
78 unique CDR3
6 unique J



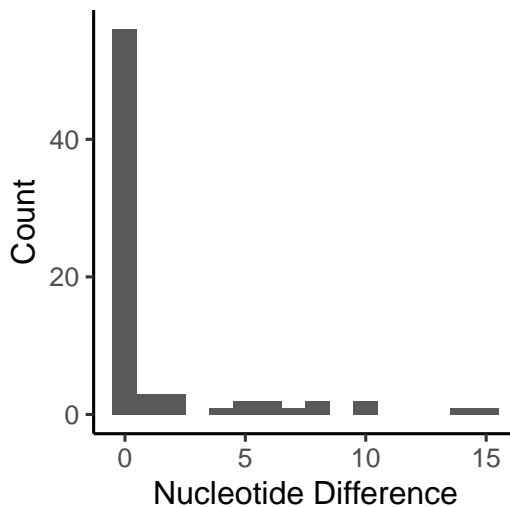
IGHV2–5*01

146 sequences assigned
96 (65.8%) exact matches, in which:
96 unique CDR3
6 unique J



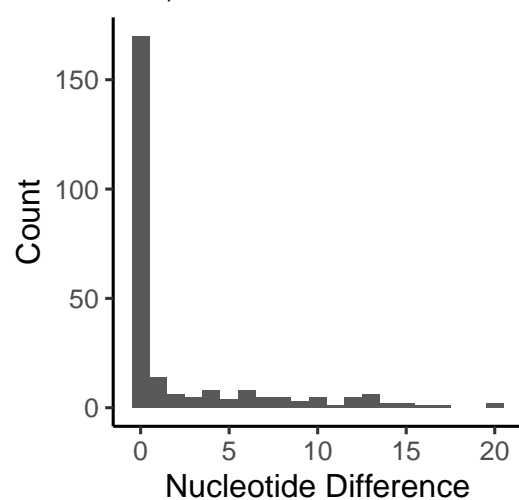
IGHV2–70*01

74 sequences assigned
56 (75.7%) exact matches, in which:
55 unique CDR3
6 unique J



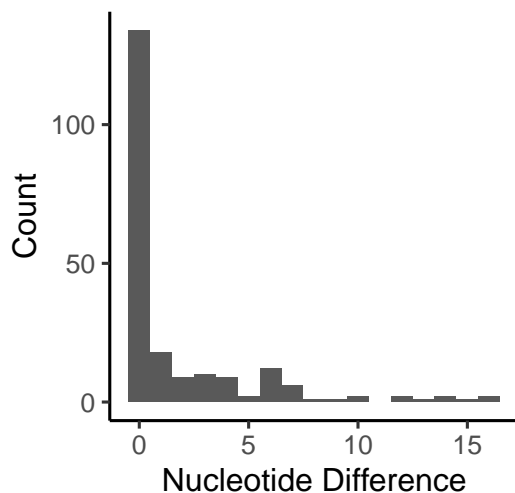
IGHV3–9*01

259 sequences assigned
170 (65.6%) exact matches, in which:
169 unique CDR3
6 unique J



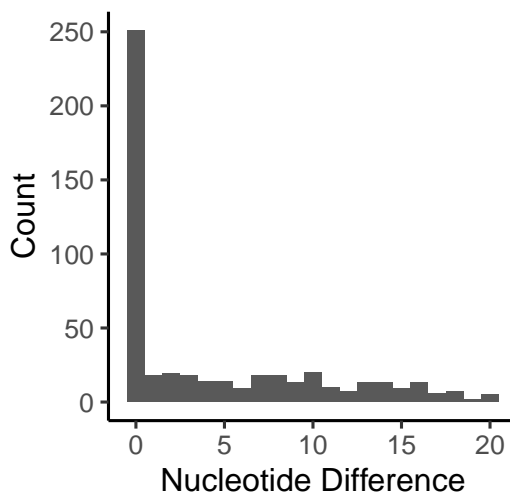
IGHV2–5*02

213 sequences assigned
134 (62.9%) exact matches, in which:
133 unique CDR3
6 unique J



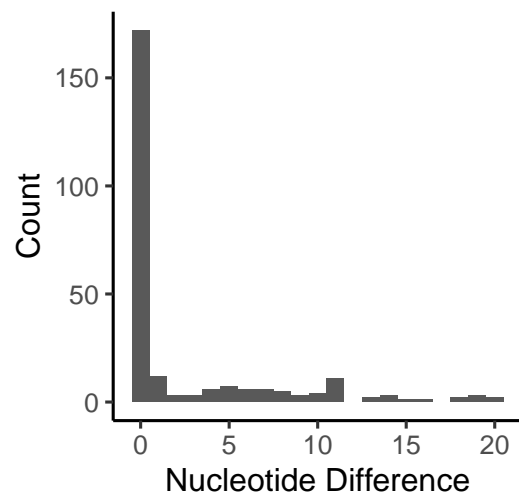
IGHV3–7*01

510 sequences assigned
251 (49.2%) exact matches, in which:
247 unique CDR3
6 unique J



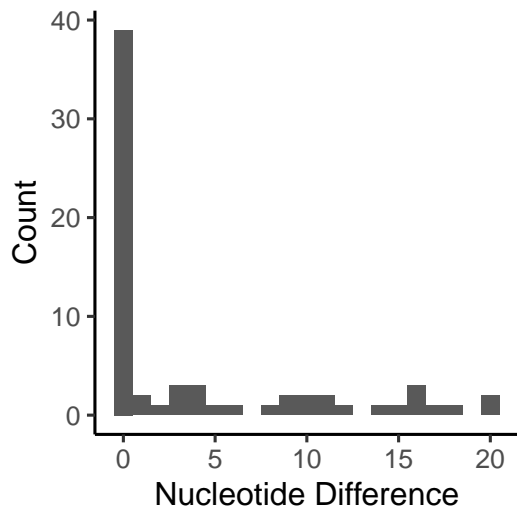
IGHV3–11*01

252 sequences assigned
172 (68.3%) exact matches, in which:
167 unique CDR3
6 unique J



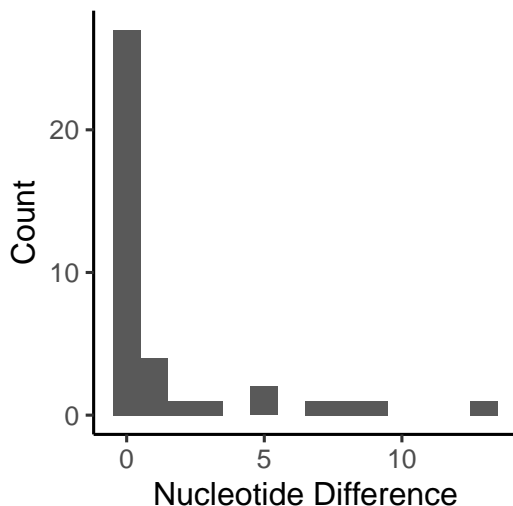
IGHV3-11*06

70 sequences assigned
39 (55.7%) exact matches, in which:
39 unique CDR3
5 unique J



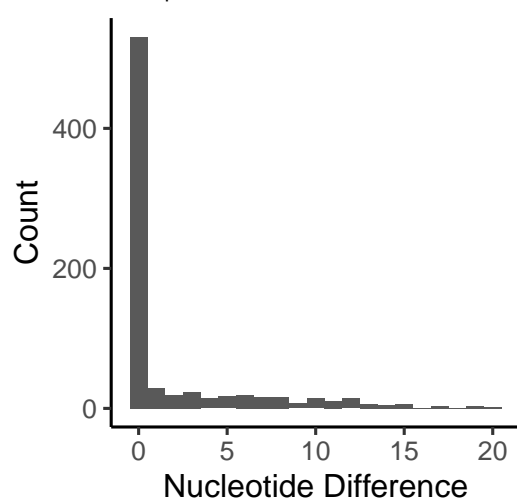
IGHV3-20*01_02

39 sequences assigned
27 (69.2%) exact matches, in which:
25 unique CDR3
5 unique J



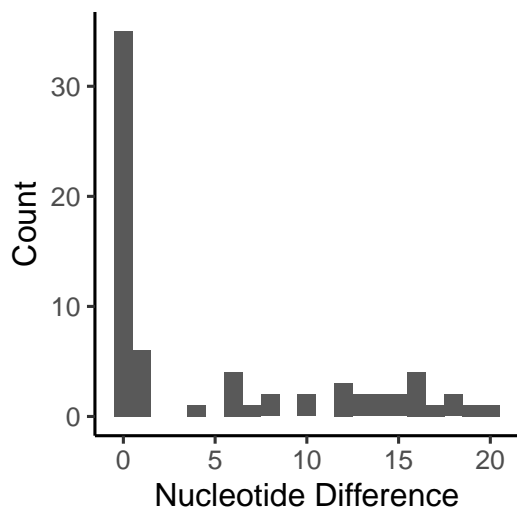
IGHV3-33*01

776 sequences assigned
531 (68.4%) exact matches, in which:
521 unique CDR3
7 unique J



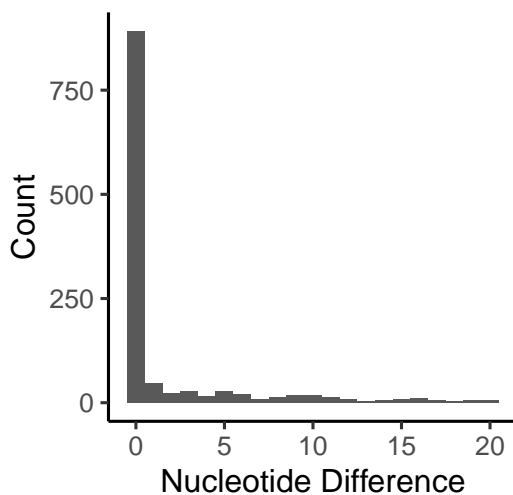
IGHV3-13*01

71 sequences assigned
35 (49.3%) exact matches, in which:
33 unique CDR3
4 unique J



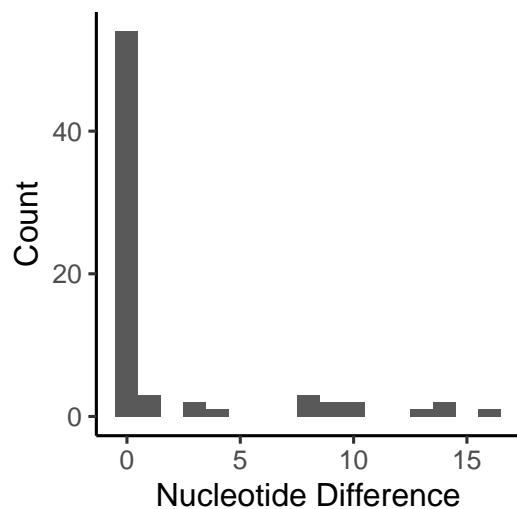
IGHV3-21*01_02

1187 sequences assigned
892 (75.1%) exact matches, in which:
865 unique CDR3
7 unique J



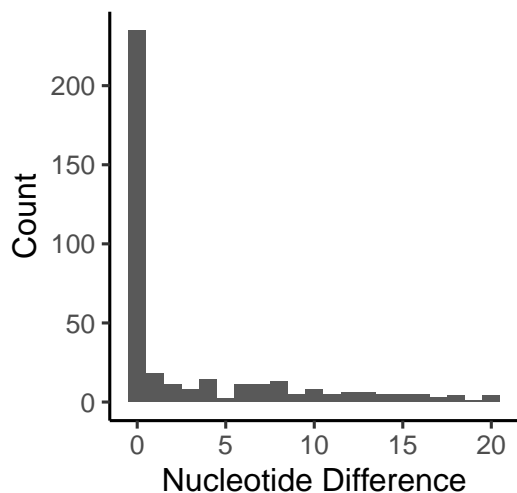
IGHV3-43*01

73 sequences assigned
54 (74%) exact matches, in which:
52 unique CDR3
6 unique J



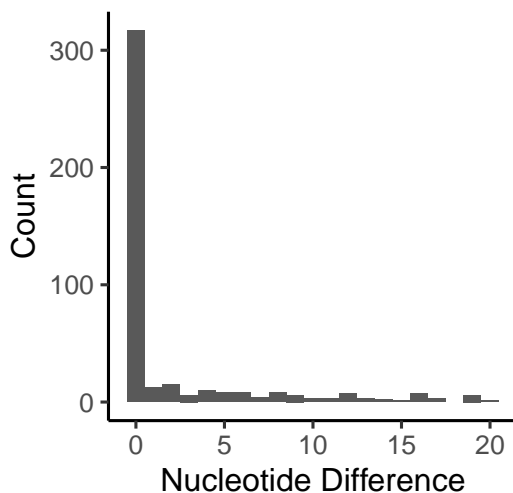
IGHV3-15*01_02

404 sequences assigned
235 (58.2%) exact matches, in which:
231 unique CDR3
7 unique J



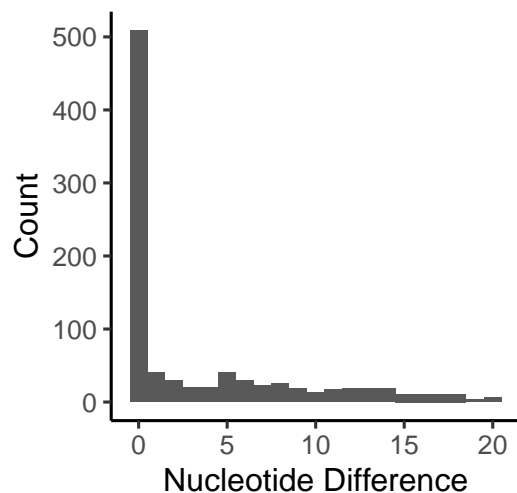
IGHV3-30*03

446 sequences assigned
317 (71.1%) exact matches, in which:
313 unique CDR3
7 unique J



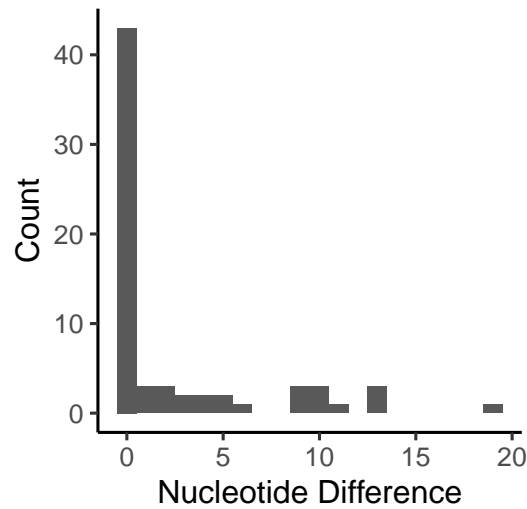
IGHV3-48*02

922 sequences assigned
509 (55.2%) exact matches, in which:
499 unique CDR3
7 unique J



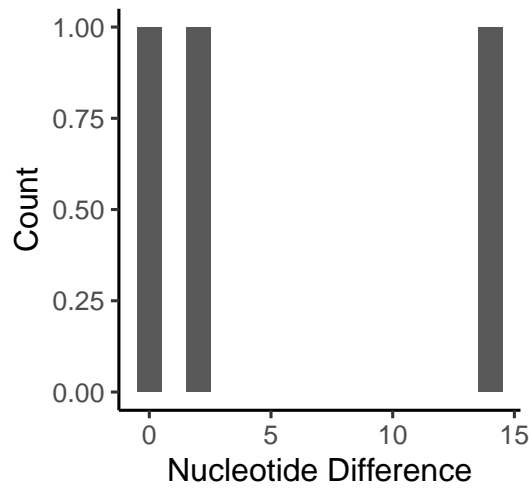
IGHV3-49*03_05

69 sequences assigned
43 (62.3%) exact matches, in which:
43 unique CDR3
6 unique J



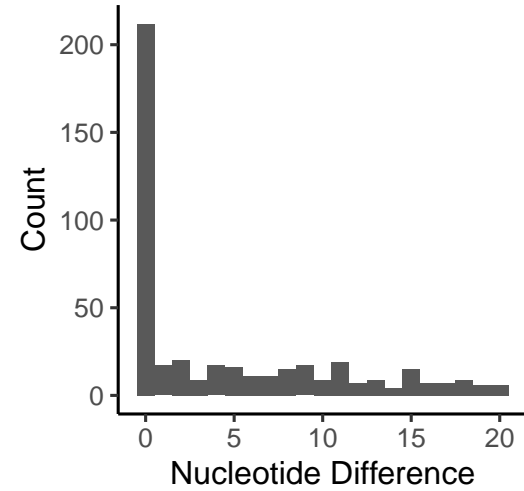
IGHV3-69-1*01

4 sequences assigned
1 (25%) exact matches, in which:
1 unique CDR3
1 unique J



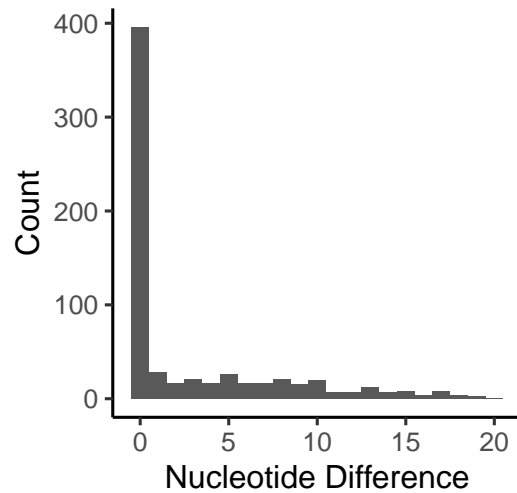
IGHV3-74*01_02

462 sequences assigned
212 (45.9%) exact matches, in which:
202 unique CDR3
7 unique J



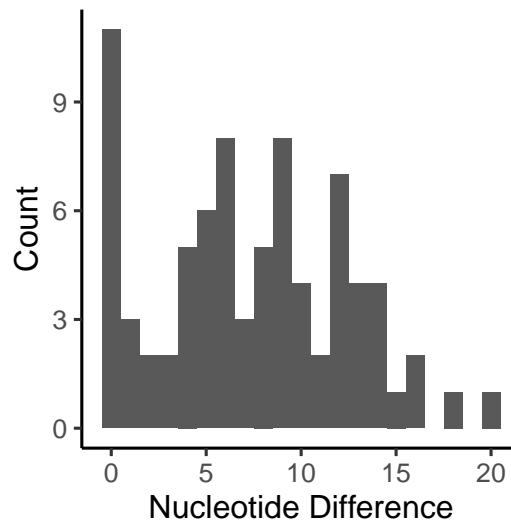
IGHV3-53*01_02

667 sequences assigned
396 (59.4%) exact matches, in which:
388 unique CDR3
7 unique J



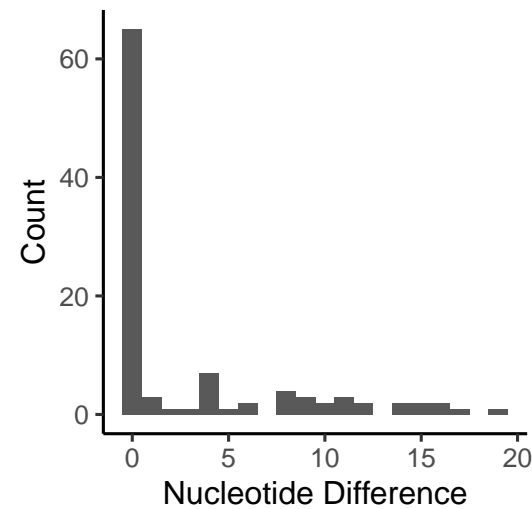
IGHV3-72*01

84 sequences assigned
11 (13.1%) exact matches, in which:
11 unique CDR3
3 unique J



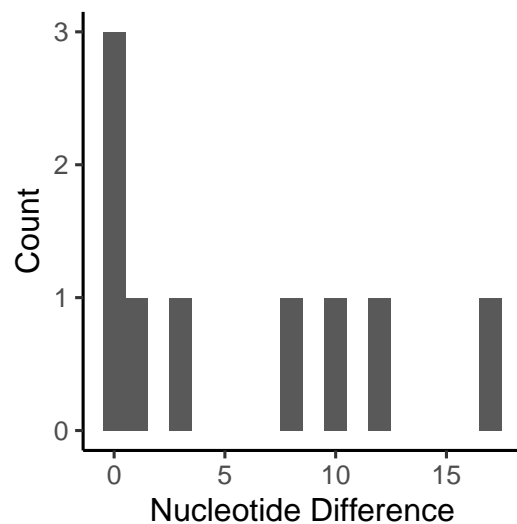
IGHV3-64D*06

107 sequences assigned
65 (60.7%) exact matches, in which:
63 unique CDR3
5 unique J



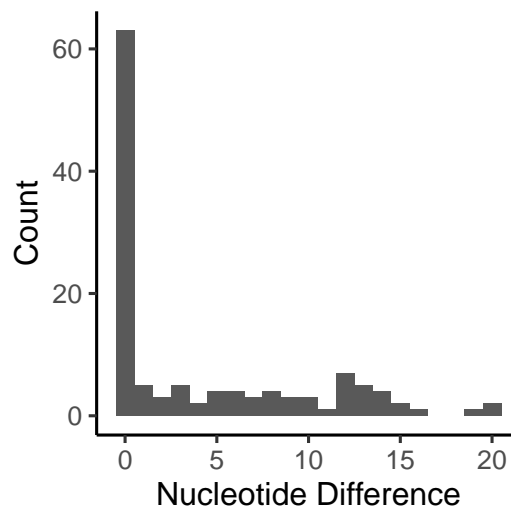
IGHV3-64*02_07

9 sequences assigned
3 (33.3%) exact matches, in which:
3 unique CDR3
3 unique J



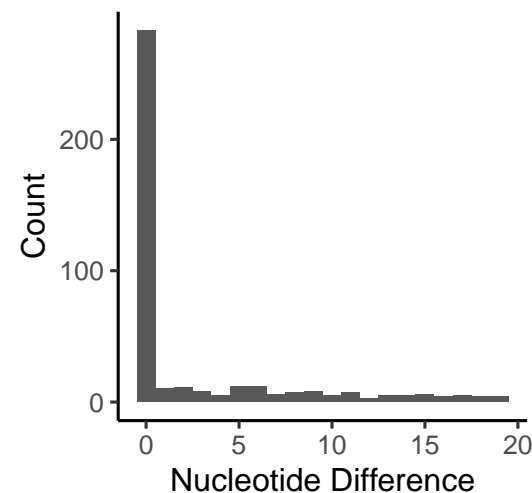
IGHV3-73*01_02

132 sequences assigned
63 (47.7%) exact matches, in which:
62 unique CDR3
6 unique J



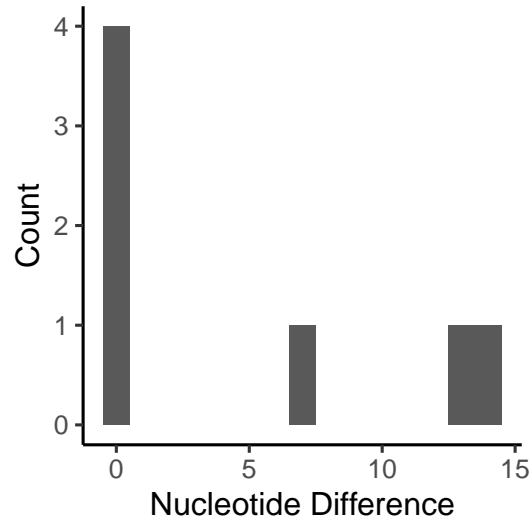
IGHV4-4*07

414 sequences assigned
283 (68.4%) exact matches, in which:
280 unique CDR3
5 unique J



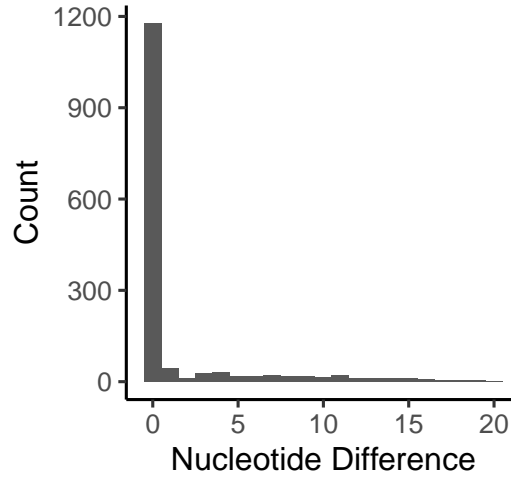
IGHV4-28*01_07

7 sequences assigned
4 (57.1%) exact matches, in which:
4 unique CDR3
3 unique J



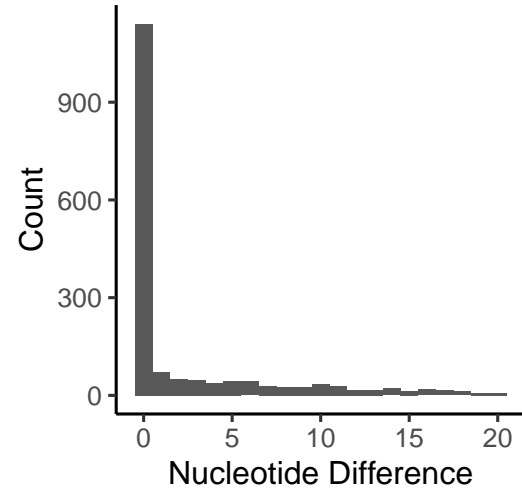
IGHV4-31*03_04

1514 sequences assigned
1177 (77.7%) exact matches, in which:
1154 unique CDR3
7 unique J



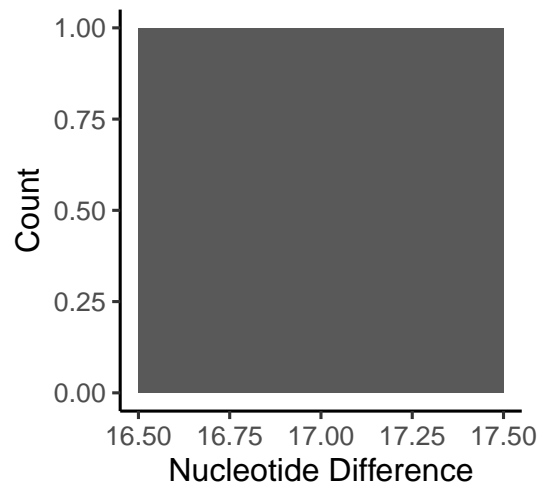
IGHV4-39*01_05

1741 sequences assigned
1141 (65.5%) exact matches, in which:
1122 unique CDR3
7 unique J



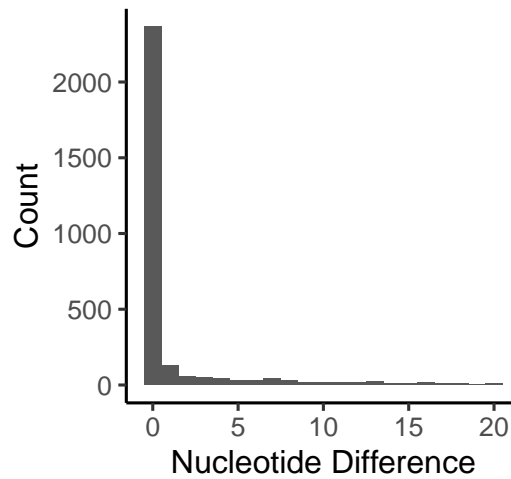
IGHV4-30-2*01

1 sequences assigned
No exact matches.



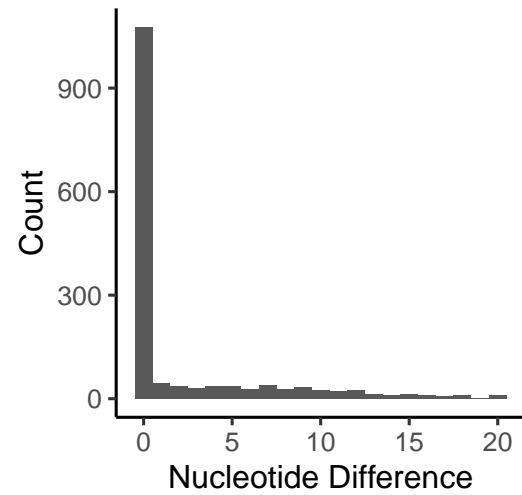
IGHV4-34*01_02

2943 sequences assigned
2365 (80.4%) exact matches, in which:
2289 unique CDR3
7 unique J



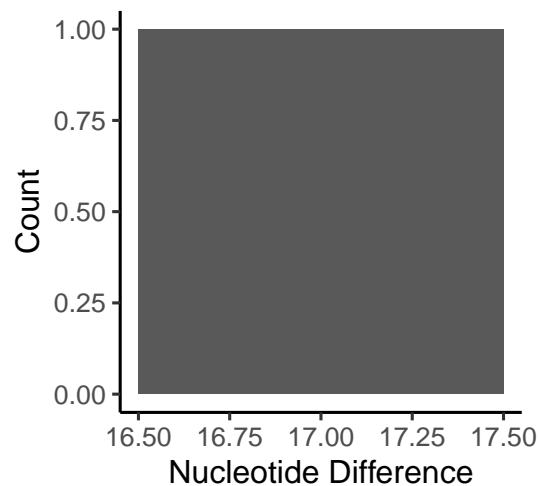
IGHV4-59*01_07

1565 sequences assigned
1077 (68.8%) exact matches, in which:
1045 unique CDR3
7 unique J



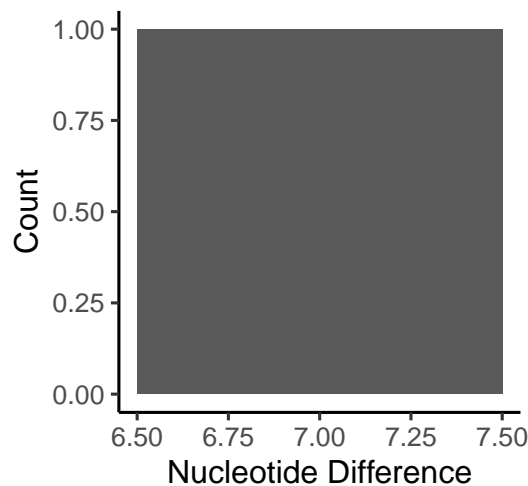
IGHV4-30-4*01

1 sequences assigned
No exact matches.



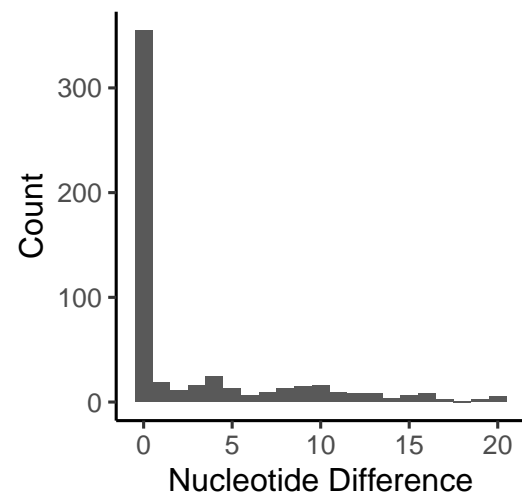
IGHV4-38-2*02

1 sequences assigned
No exact matches.



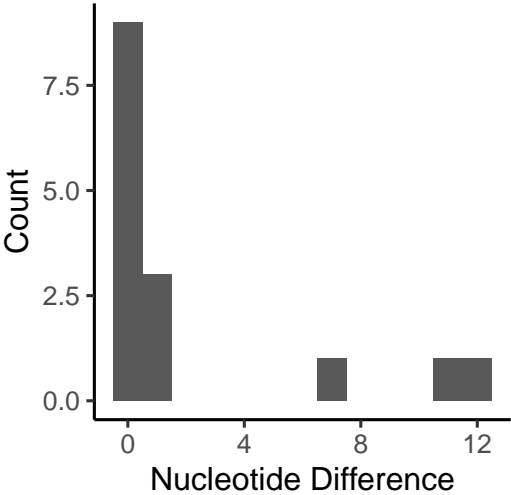
IGHV4-61*01

565 sequences assigned
355 (62.8%) exact matches, in which:
349 unique CDR3
7 unique J



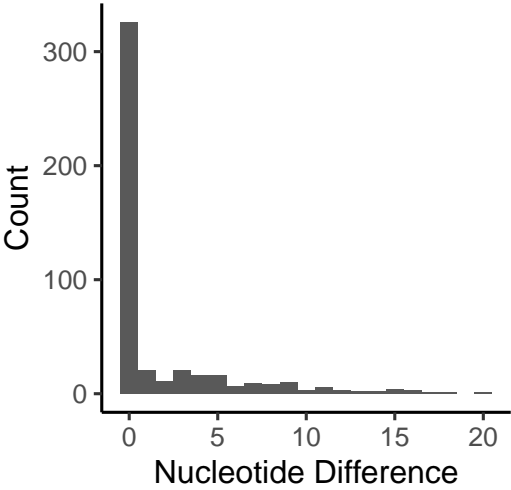
IGHV5-10-1*01_03

16 sequences assigned
9 (56.2%) exact matches, in which:
9 unique CDR3
4 unique J



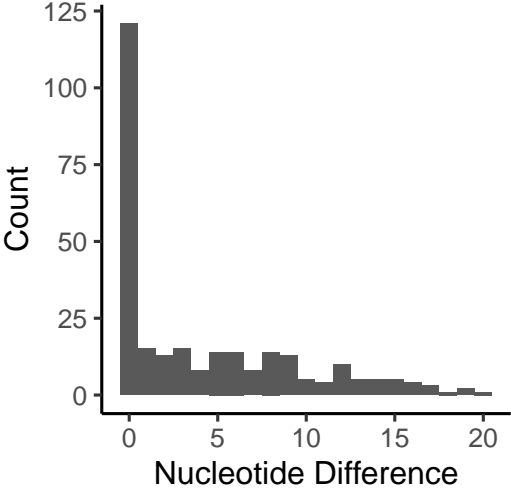
IGHV5-51*01_03

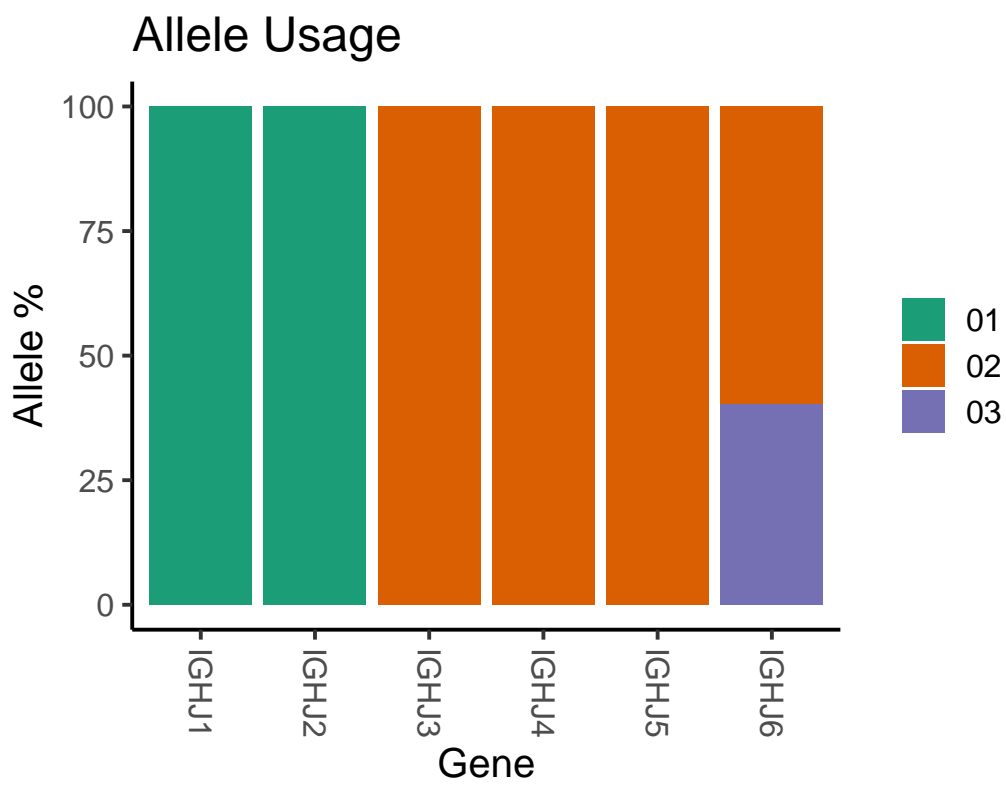
472 sequences assigned
326 (69.1%) exact matches, in which:
326 unique CDR3
7 unique J



IGHV6-1*01_02

282 sequences assigned
121 (42.9%) exact matches, in which:
121 unique CDR3
7 unique J





Sequence Count by IGHJ6 allele usage



Novel sequence(s)IGHV4-59*02_G88AIGHV5-51*07_A128G are not listed in the genotype and will be ignored.