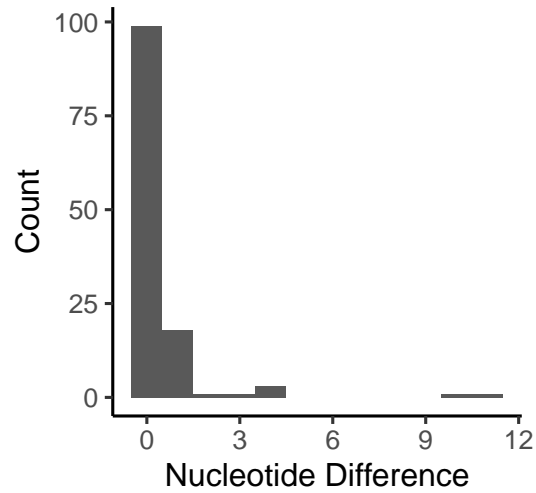


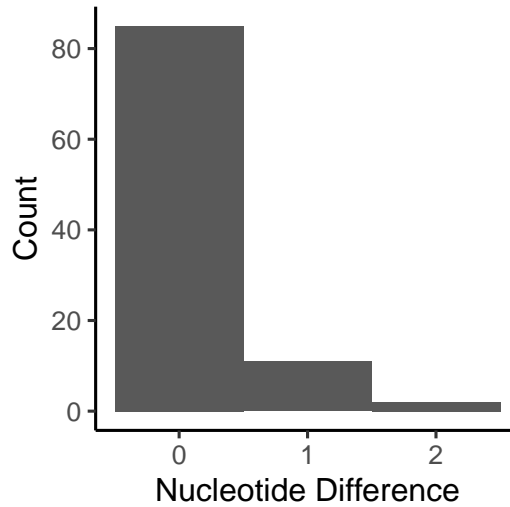
IGHV1-2*02

124 sequences assigned
99 (79.8%) exact matches, in which:
98 unique CDR3
6 unique J



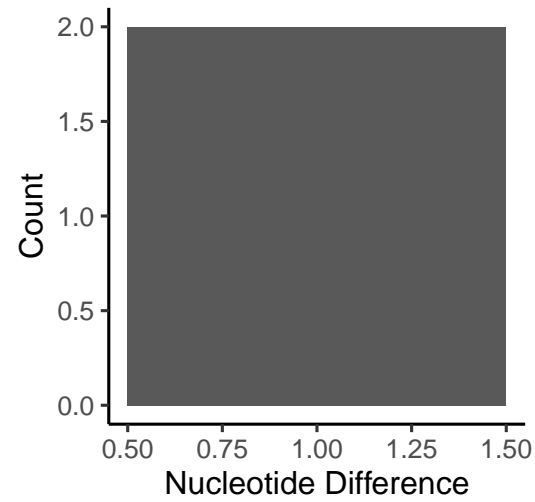
IGHV1-8*01

98 sequences assigned
85 (86.7%) exact matches, in which:
84 unique CDR3
6 unique J



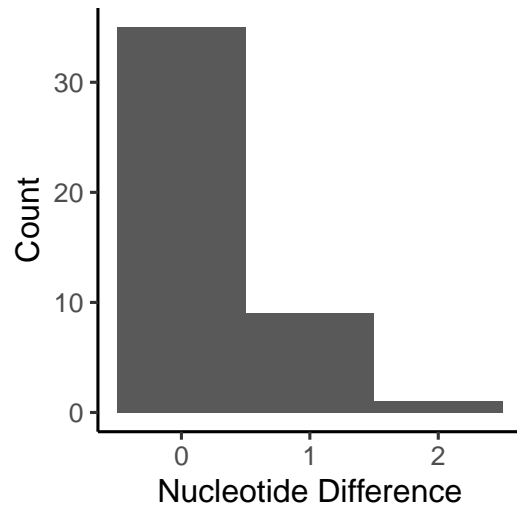
IGHV1-45*02

2 sequences assigned
No exact matches.



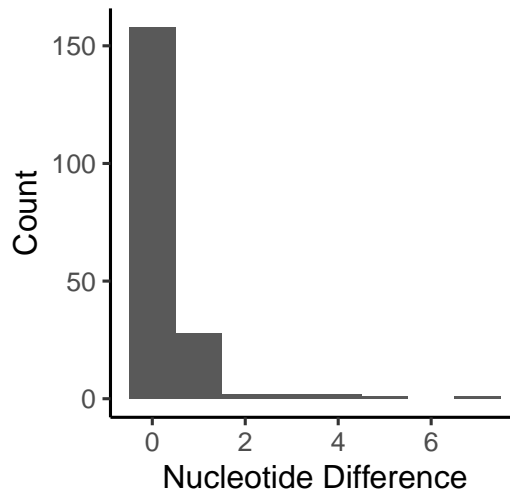
IGHV1-2*04

45 sequences assigned
35 (77.8%) exact matches, in which:
34 unique CDR3
4 unique J



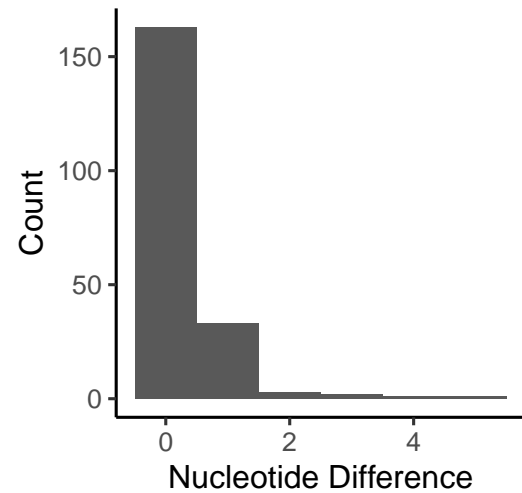
IGHV1-18*01

194 sequences assigned
158 (81.4%) exact matches, in which:
155 unique CDR3
6 unique J



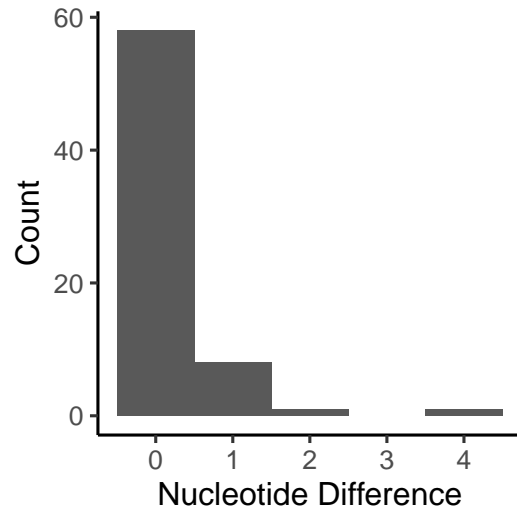
IGHV1-46*01

203 sequences assigned
163 (80.3%) exact matches, in which:
163 unique CDR3
6 unique J



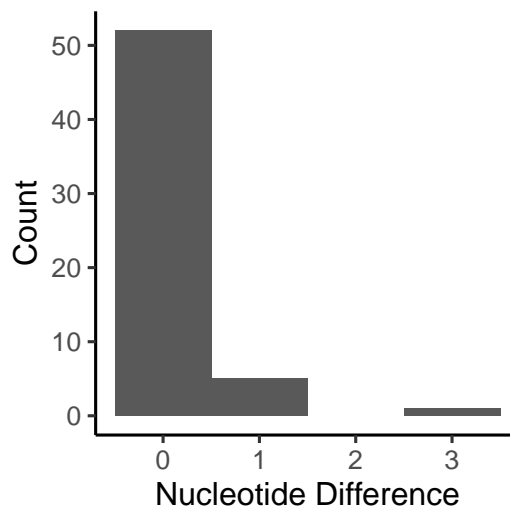
IGHV1-3*01

68 sequences assigned
58 (85.3%) exact matches, in which:
58 unique CDR3
4 unique J



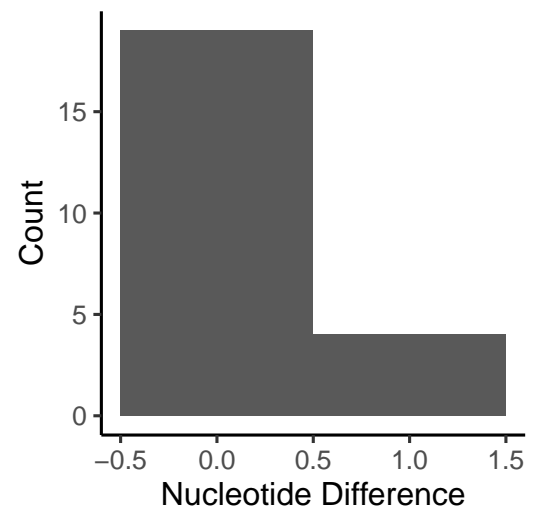
IGHV1-24*01

58 sequences assigned
52 (89.7%) exact matches, in which:
51 unique CDR3
6 unique J



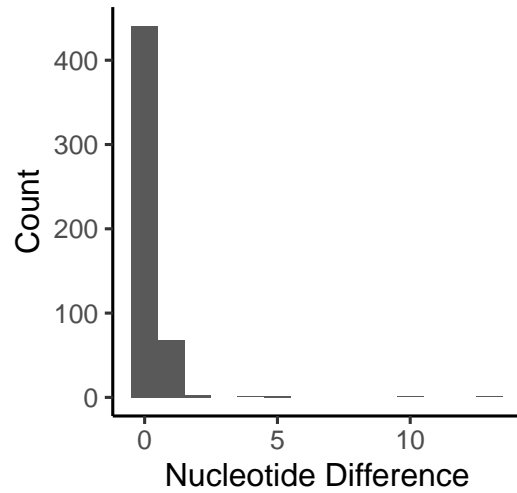
IGHV1-58*01

23 sequences assigned
19 (82.6%) exact matches, in which:
19 unique CDR3
6 unique J



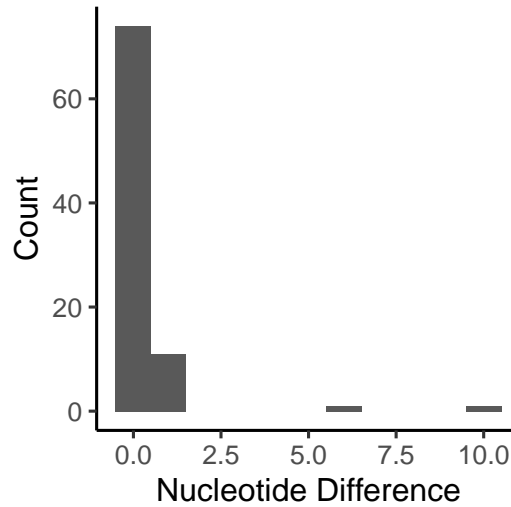
IGHV1–69*01

518 sequences assigned
441 (85.1%) exact matches, in which:
437 unique CDR3
6 unique J



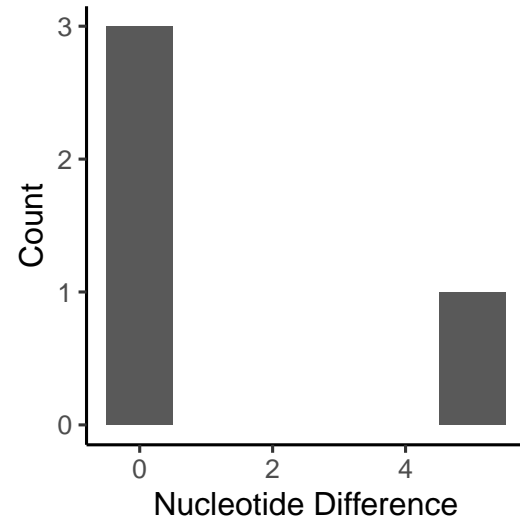
IGHV2–5*02

87 sequences assigned
74 (85.1%) exact matches, in which:
73 unique CDR3
6 unique J



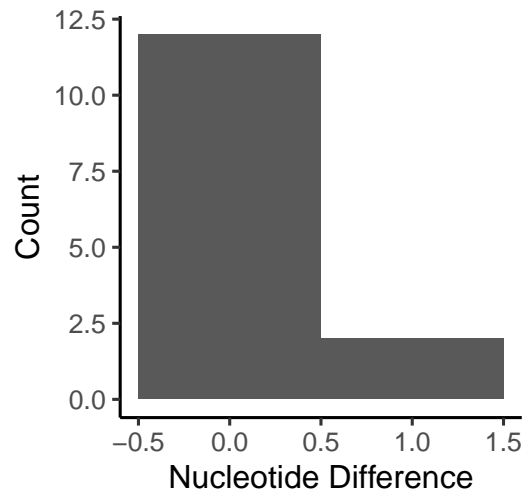
IGHV2–70*04

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



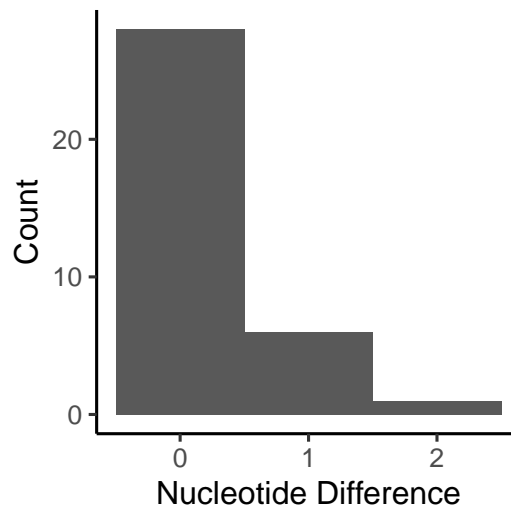
IGHV1–69–2*01

14 sequences assigned
12 (85.7%) exact matches, in which:
11 unique CDR3
4 unique J



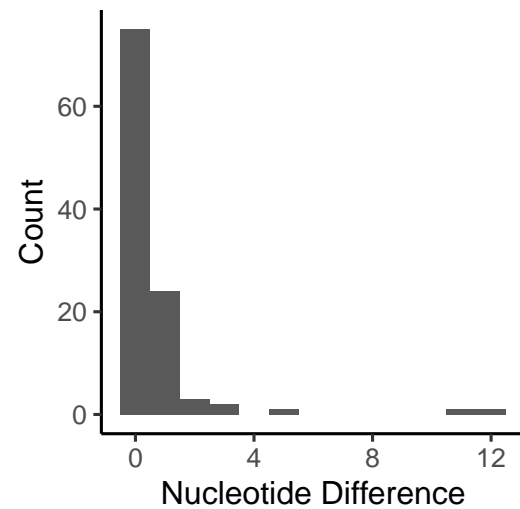
IGHV2–26*01

35 sequences assigned
28 (80%) exact matches, in which:
28 unique CDR3
5 unique J



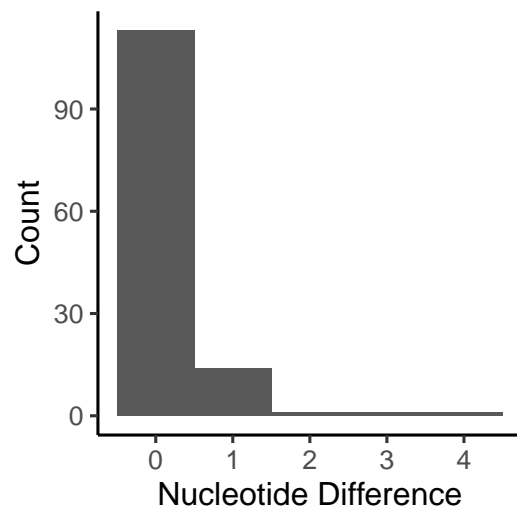
IGHV3–7*01

109 sequences assigned
75 (68.8%) exact matches, in which:
73 unique CDR3
6 unique J



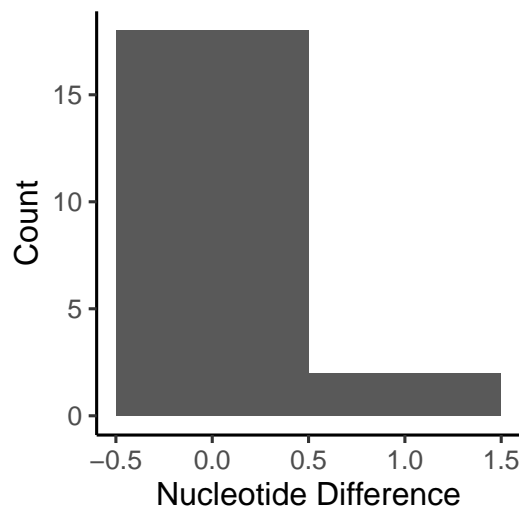
IGHV1–69*06

130 sequences assigned
113 (86.9%) exact matches, in which:
109 unique CDR3
6 unique J



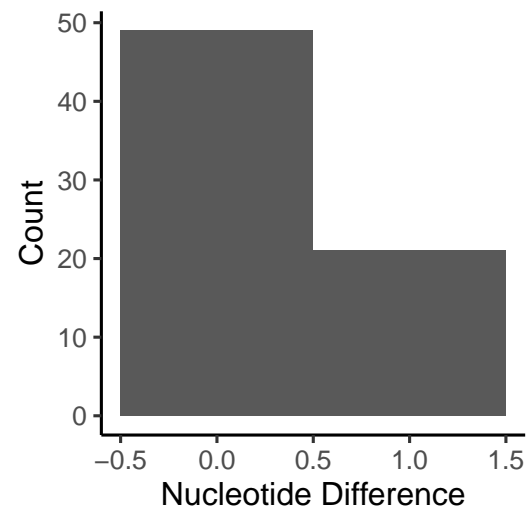
IGHV2–70*01

20 sequences assigned
18 (90%) exact matches, in which:
17 unique CDR3
4 unique J



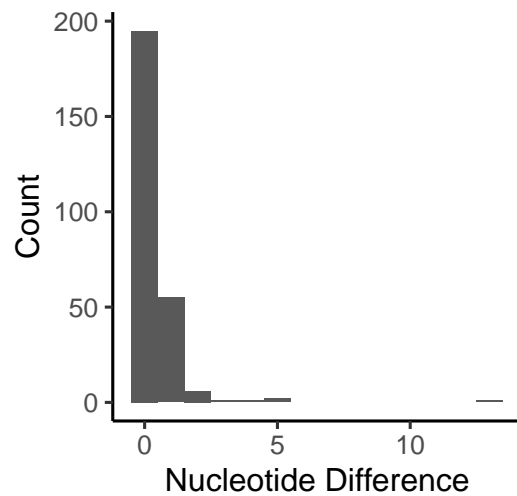
IGHV3–7*03

71 sequences assigned
49 (69%) exact matches, in which:
49 unique CDR3
6 unique J



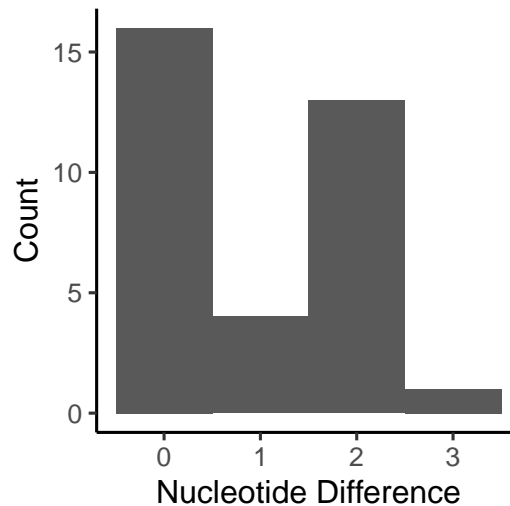
IGHV3-9*01

261 sequences assigned
195 (74.7%) exact matches, in which:
193 unique CDR3
6 unique J



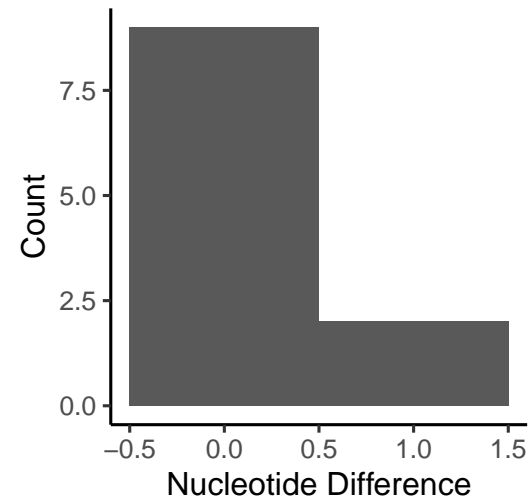
IGHV3-13*01

34 sequences assigned
16 (47.1%) exact matches, in which:
16 unique CDR3
3 unique J



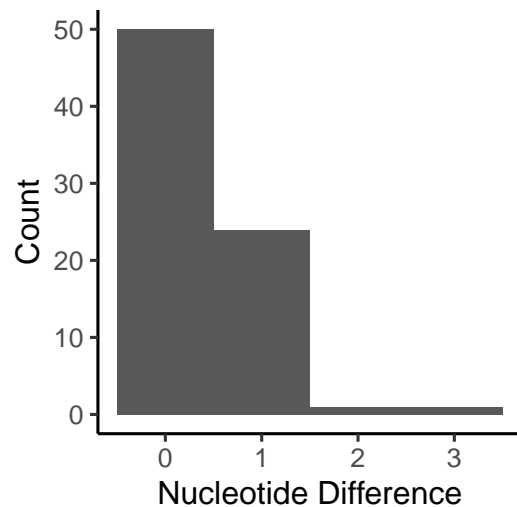
IGHV3-20*01

11 sequences assigned
9 (81.8%) exact matches, in which:
8 unique CDR3
5 unique J



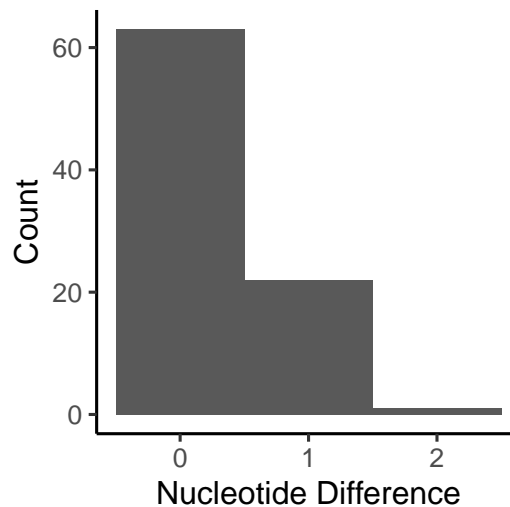
IGHV3-11*01

76 sequences assigned
50 (65.8%) exact matches, in which:
50 unique CDR3
5 unique J



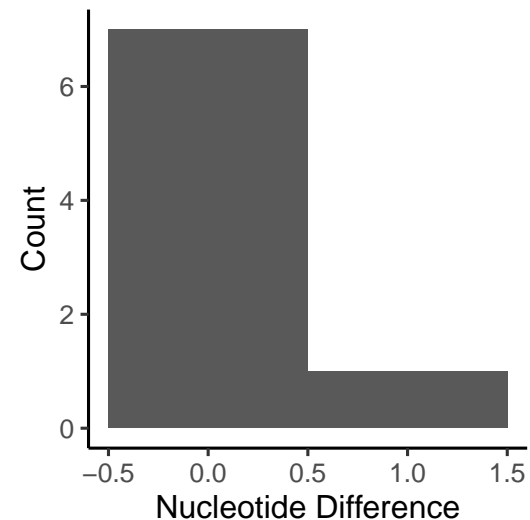
IGHV3-15*01

86 sequences assigned
63 (73.3%) exact matches, in which:
62 unique CDR3
4 unique J



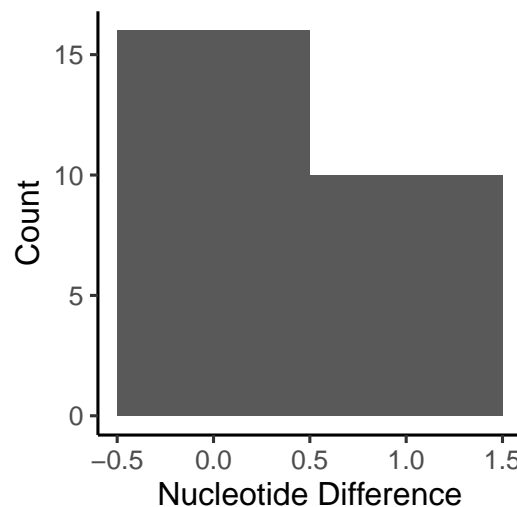
IGHV3-20*04

8 sequences assigned
7 (87.5%) exact matches, in which:
7 unique CDR3
3 unique J



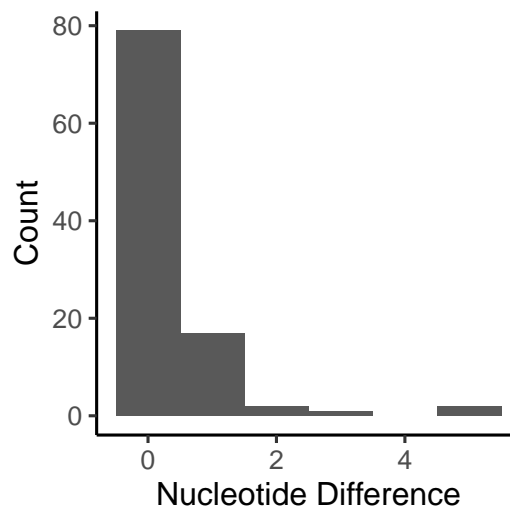
IGHV3-11*06

26 sequences assigned
16 (61.5%) exact matches, in which:
16 unique CDR3
4 unique J



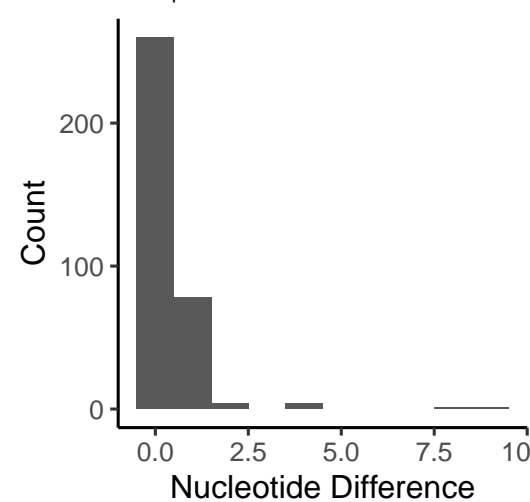
IGHV3-15*07

101 sequences assigned
79 (78.2%) exact matches, in which:
78 unique CDR3
5 unique J



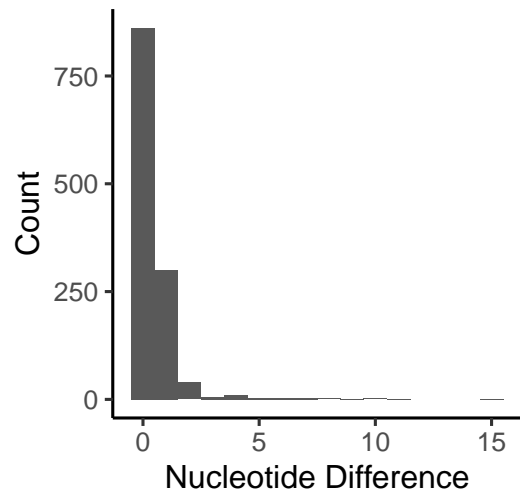
IGHV3-21*01

348 sequences assigned
260 (74.7%) exact matches, in which:
253 unique CDR3
6 unique J



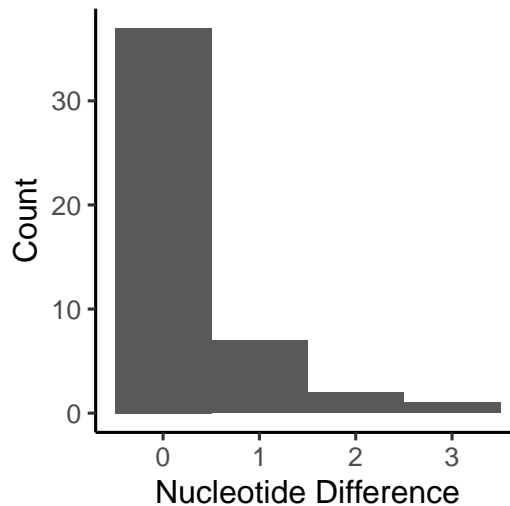
IGHV3–23*01

1236 sequences assigned
862 (69.7%) exact matches, in which:
841 unique CDR3
6 unique J



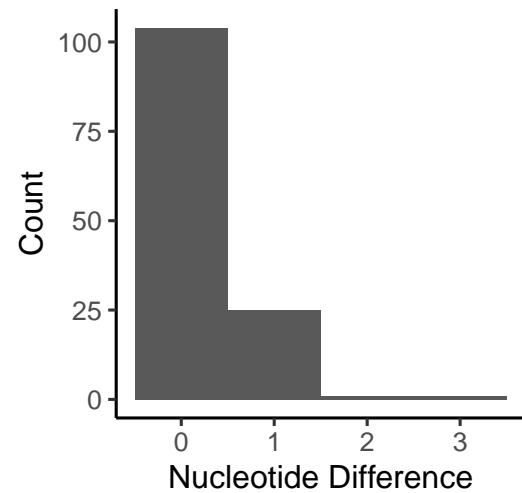
IGHV3–43*01

47 sequences assigned
37 (78.7%) exact matches, in which:
37 unique CDR3
3 unique J



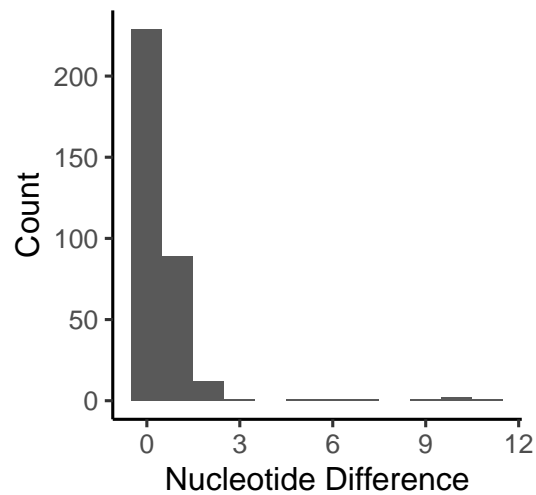
IGHV3–53*01

131 sequences assigned
104 (79.4%) exact matches, in which:
103 unique CDR3
6 unique J



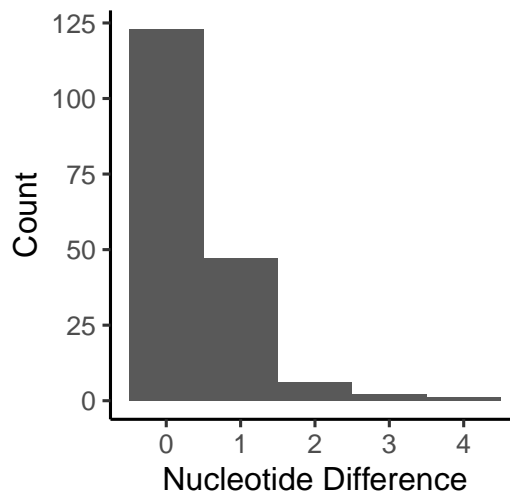
IGHV3–30*18

338 sequences assigned
229 (67.8%) exact matches, in which:
227 unique CDR3
6 unique J



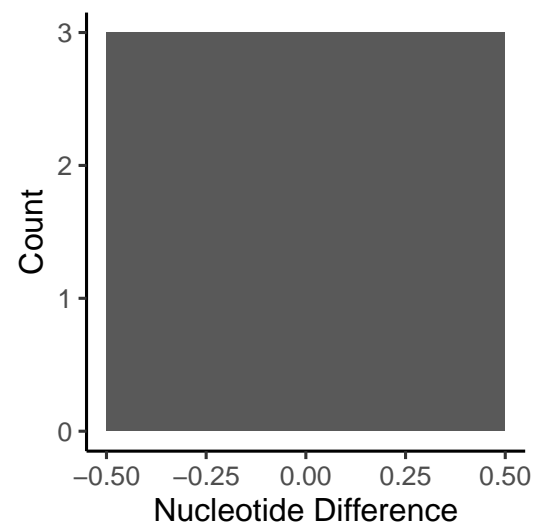
IGHV3–48*02

179 sequences assigned
123 (68.7%) exact matches, in which:
122 unique CDR3
5 unique J



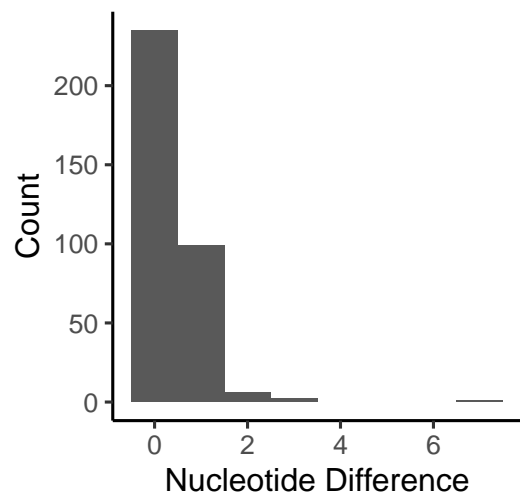
IGHV3–64*02

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



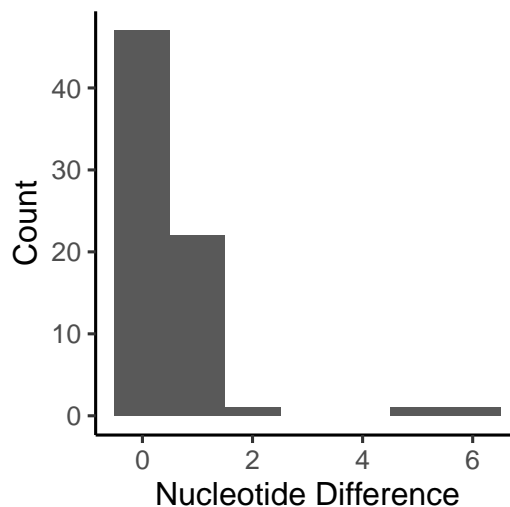
IGHV3–33*01

343 sequences assigned
235 (68.5%) exact matches, in which:
231 unique CDR3
6 unique J



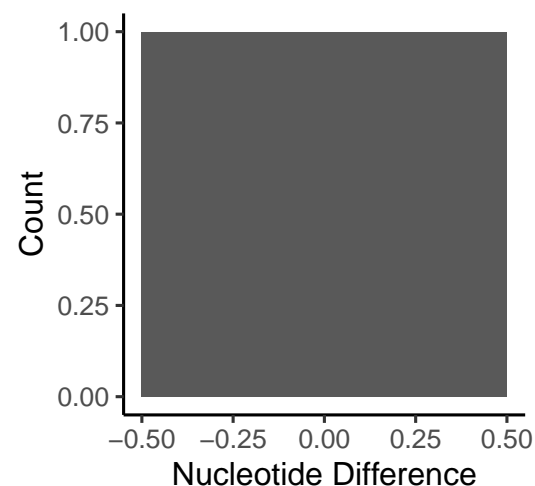
IGHV3–49*05

72 sequences assigned
47 (65.3%) exact matches, in which:
46 unique CDR3
5 unique J



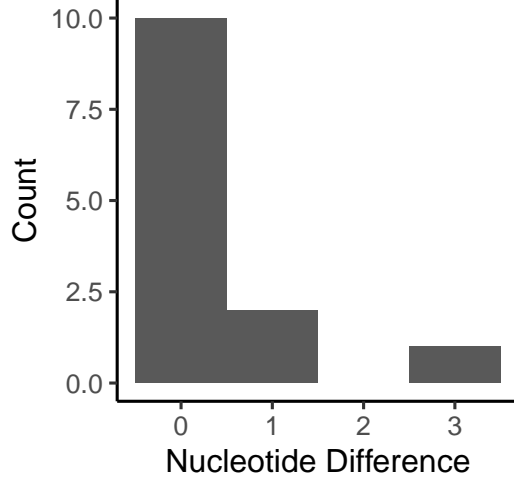
IGHV3–66*03

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



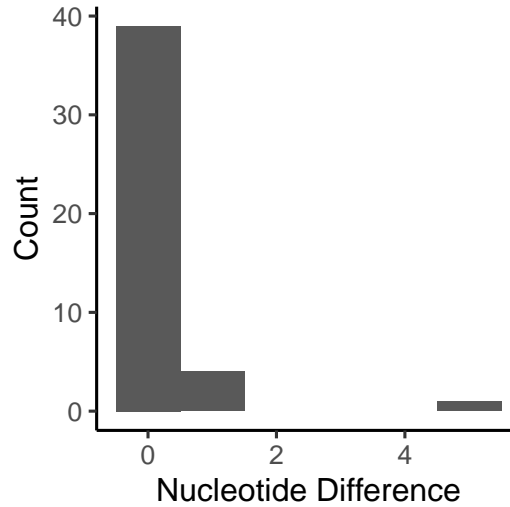
IGHV3-72*01

13 sequences assigned
10 (76.9%) exact matches, in which:
10 unique CDR3
4 unique J



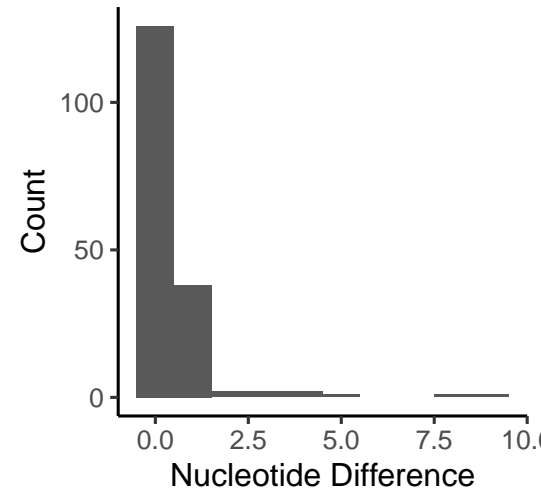
IGHV3-64D*06

44 sequences assigned
39 (88.6%) exact matches, in which:
38 unique CDR3
6 unique J



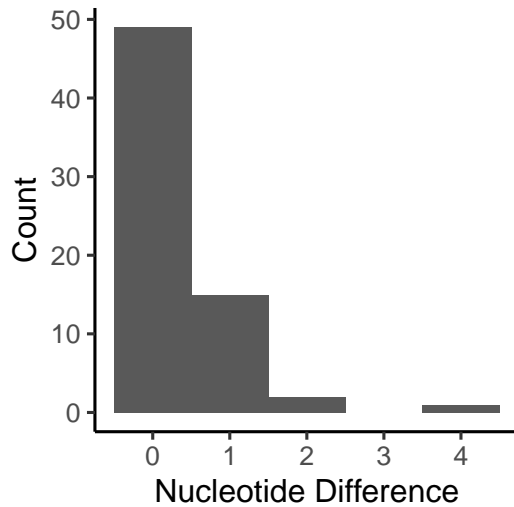
IGHV4-31*03

173 sequences assigned
126 (72.8%) exact matches, in which:
125 unique CDR3
6 unique J



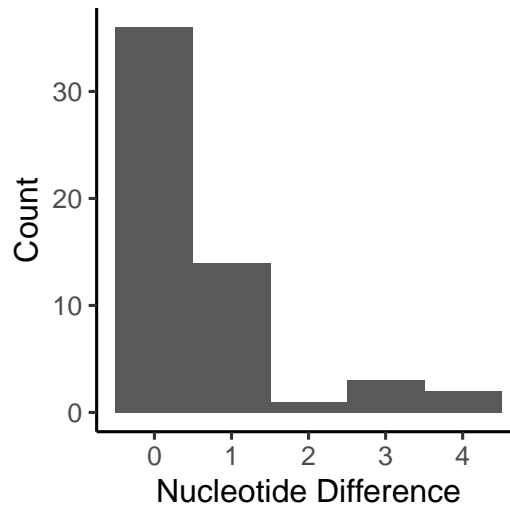
IGHV3-73*02

67 sequences assigned
49 (73.1%) exact matches, in which:
48 unique CDR3
4 unique J



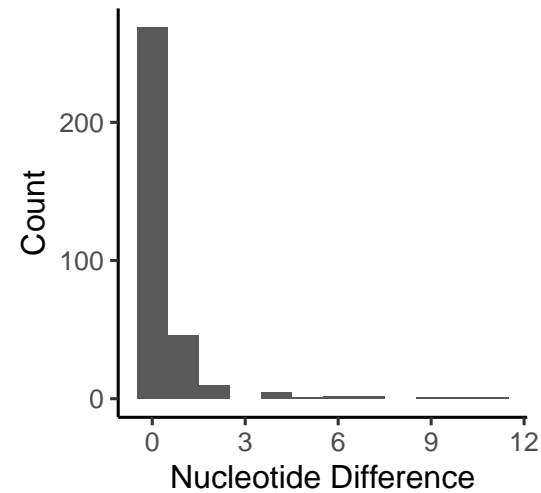
IGHV4-4*02

56 sequences assigned
36 (64.3%) exact matches, in which:
36 unique CDR3
4 unique J



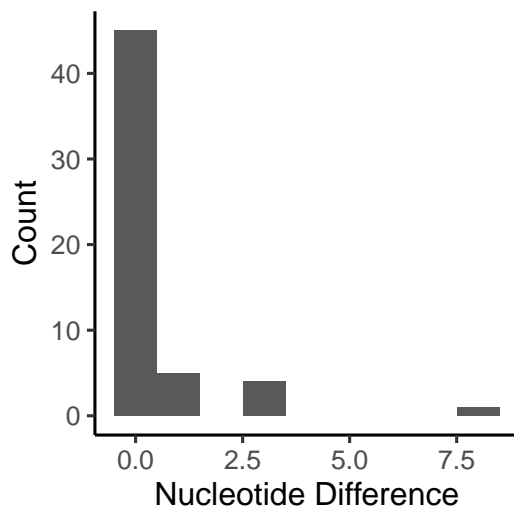
IGHV4-34*01

338 sequences assigned
269 (79.6%) exact matches, in which:
263 unique CDR3
6 unique J



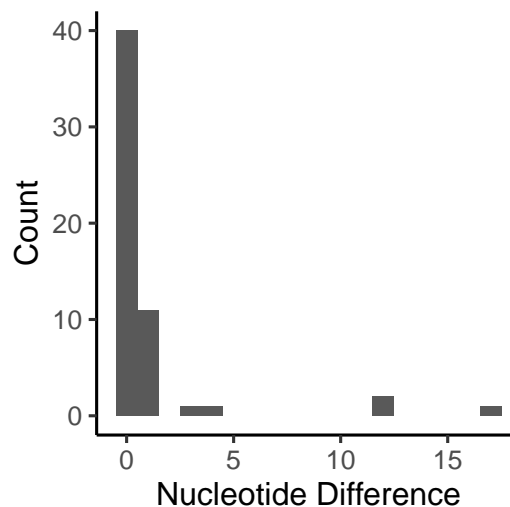
IGHV3-74*01

55 sequences assigned
45 (81.8%) exact matches, in which:
45 unique CDR3
5 unique J



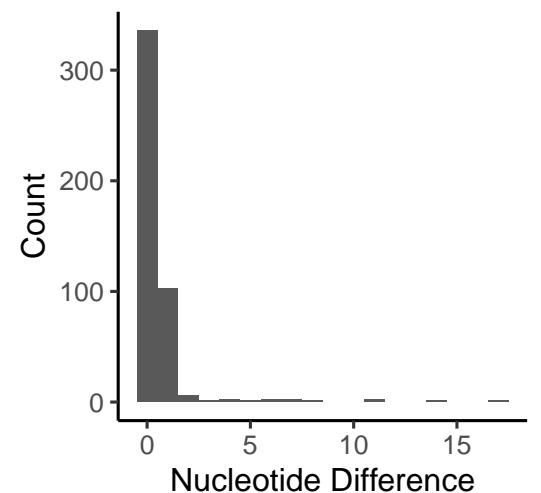
IGHV4-4*07

56 sequences assigned
40 (71.4%) exact matches, in which:
40 unique CDR3
5 unique J



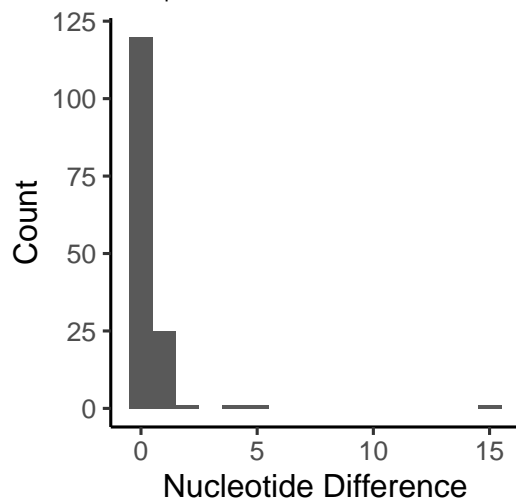
IGHV4-39*01

458 sequences assigned
336 (73.4%) exact matches, in which:
334 unique CDR3
6 unique J



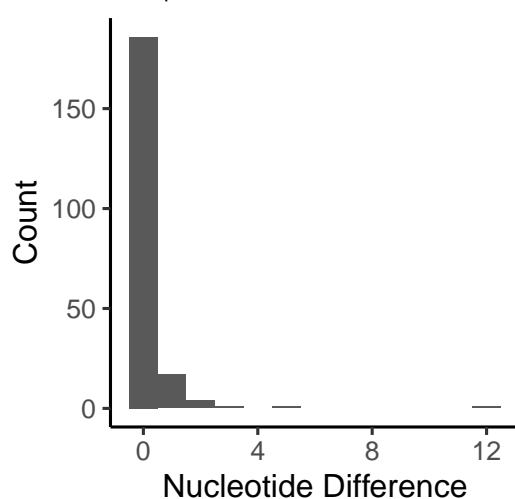
IGHV4–59*01

149 sequences assigned
120 (80.5%) exact matches, in which:
120 unique CDR3
6 unique J



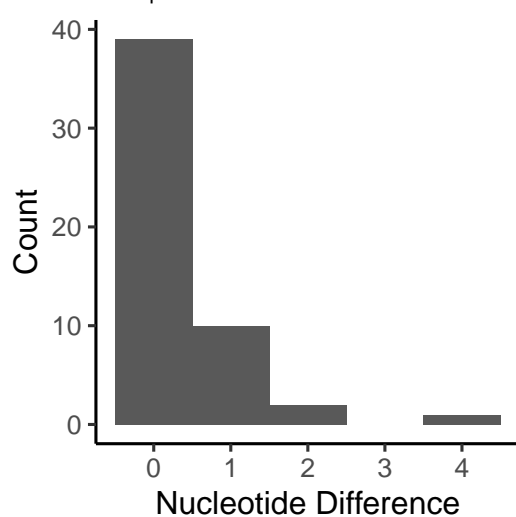
IGHV5–51*01

210 sequences assigned
186 (88.6%) exact matches, in which:
185 unique CDR3
6 unique J



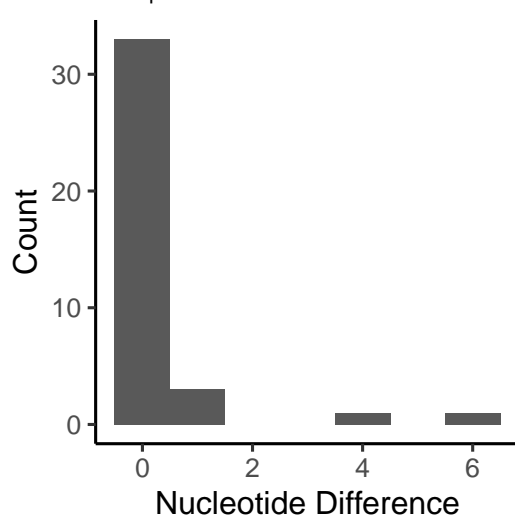
IGHV4–61*01

52 sequences assigned
39 (75%) exact matches, in which:
39 unique CDR3
5 unique J



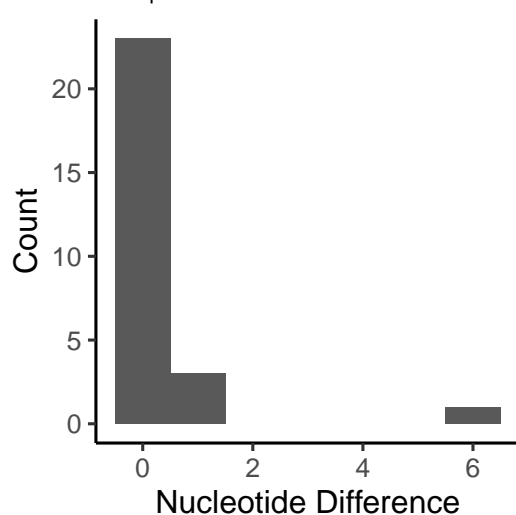
IGHV6–1*01

38 sequences assigned
33 (86.8%) exact matches, in which:
33 unique CDR3
5 unique J



IGHV5–10–1*03

27 sequences assigned
23 (85.2%) exact matches, in which:
22 unique CDR3
4 unique J





Warning – no inferred sequences found.