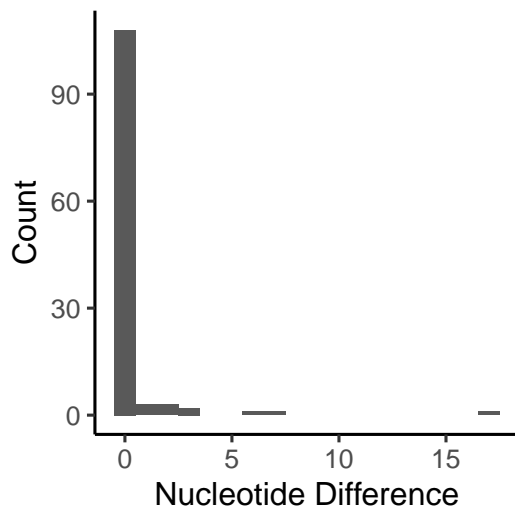


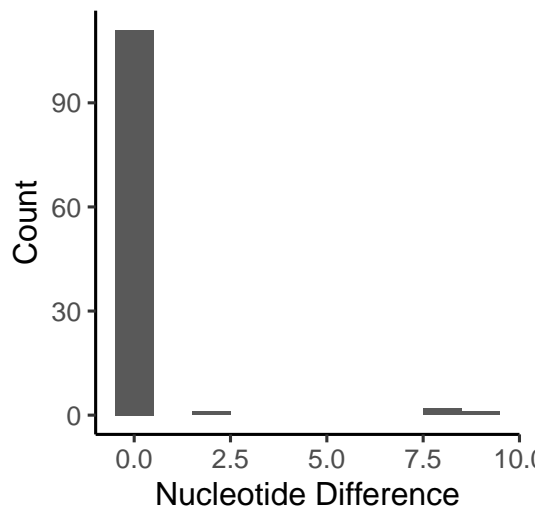
IGHV1-2*04

120 sequences assigned
108 (90%) exact matches, in which:
108 unique CDR3
7 unique J



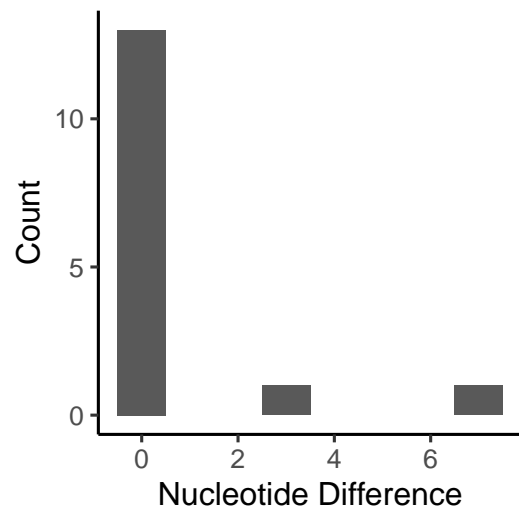
IGHV1-24*01

115 sequences assigned
111 (96.5%) exact matches, in which:
111 unique CDR3
7 unique J



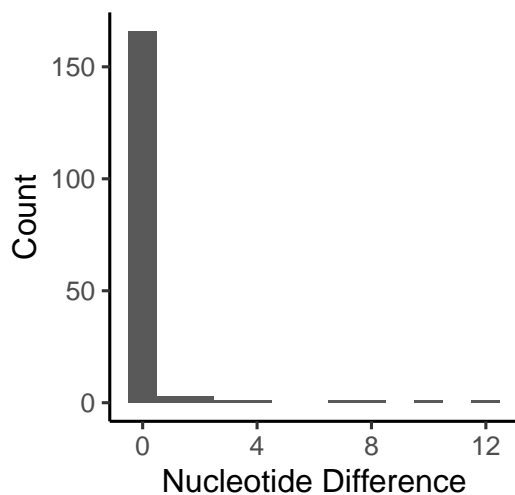
IGHV1-58*01

15 sequences assigned
13 (86.7%) exact matches, in which:
13 unique CDR3
4 unique J



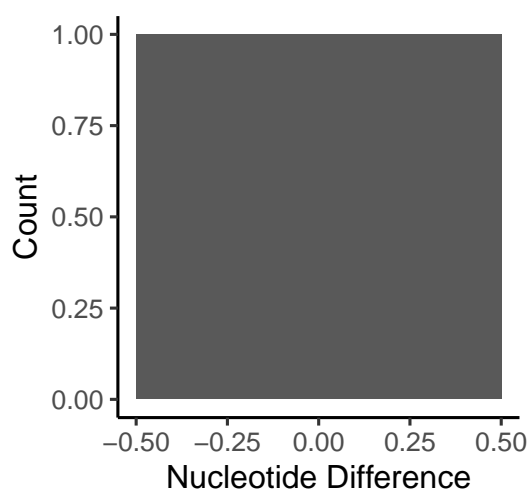
IGHV1-3*01

178 sequences assigned
166 (93.3%) exact matches, in which:
166 unique CDR3
7 unique J



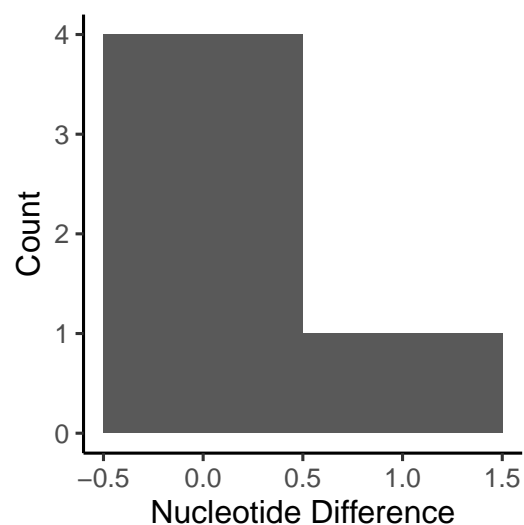
IGHV1-45*02

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



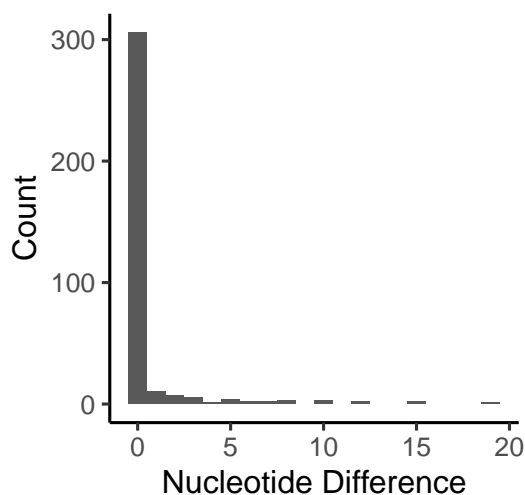
IGHV1-58*02

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



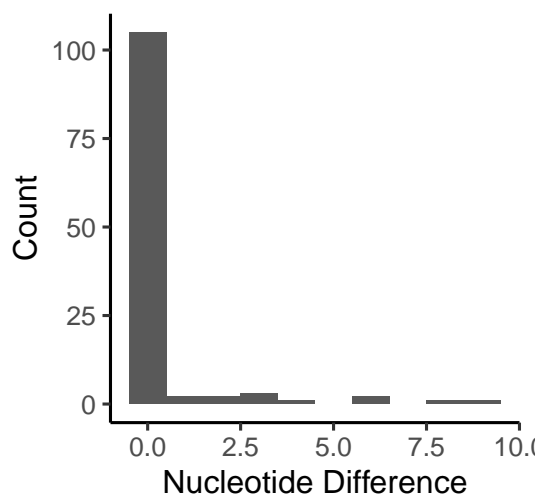
IGHV1-18*04

349 sequences assigned
306 (87.7%) exact matches, in which:
305 unique CDR3
7 unique J



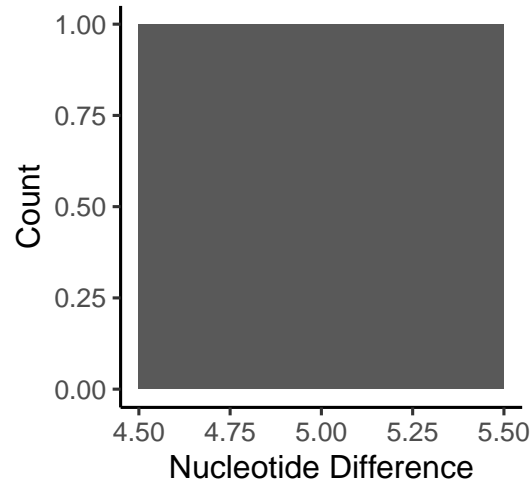
IGHV1-46*01

117 sequences assigned
105 (89.7%) exact matches, in which:
105 unique CDR3
7 unique J



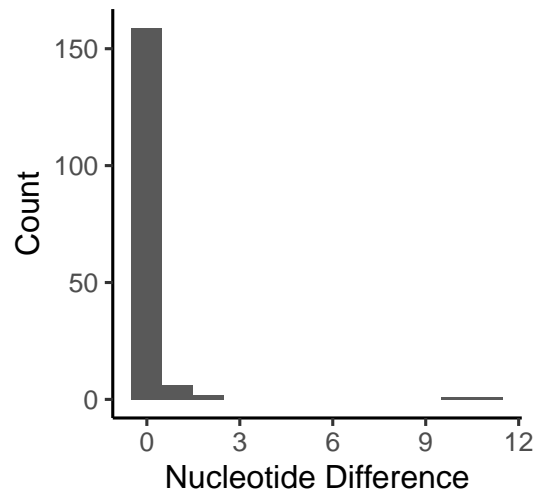
IGHV1-68*02

1 sequences assigned
No exact matches.



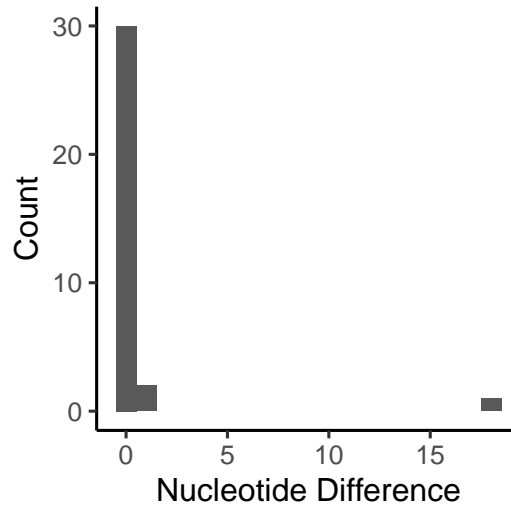
IGHV1–69*04

169 sequences assigned
159 (94.1%) exact matches, in which:
159 unique CDR3
6 unique J



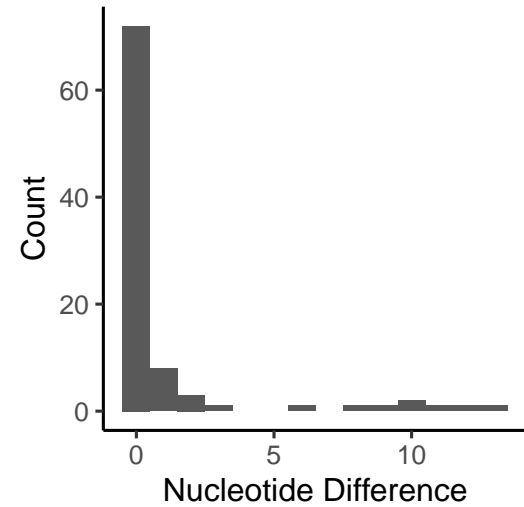
IGHV2–26*01

33 sequences assigned
30 (90.9%) exact matches, in which:
30 unique CDR3
6 unique J



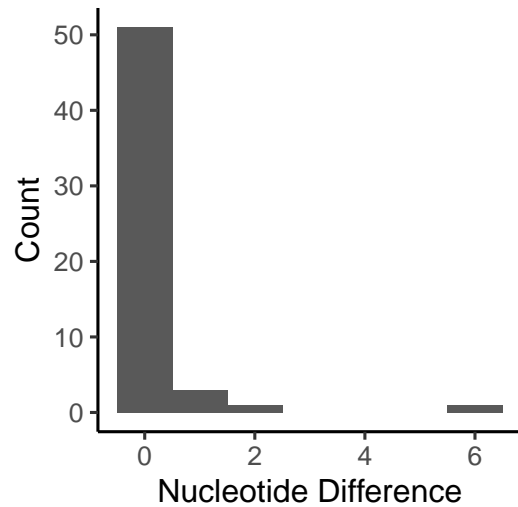
IGHV3–7*03

94 sequences assigned
72 (76.6%) exact matches, in which:
72 unique CDR3
6 unique J



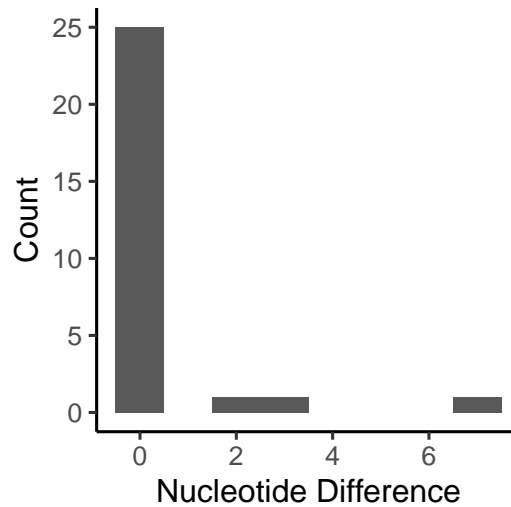
IGHV2–5*01

56 sequences assigned
51 (91.1%) exact matches, in which:
51 unique CDR3
5 unique J



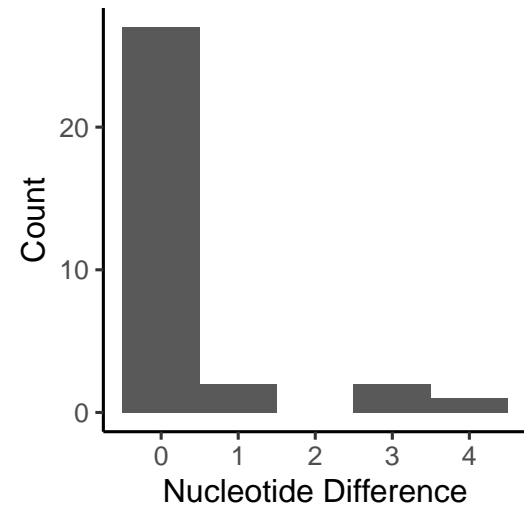
IGHV2–70*01

28 sequences assigned
25 (89.3%) exact matches, in which:
25 unique CDR3
5 unique J



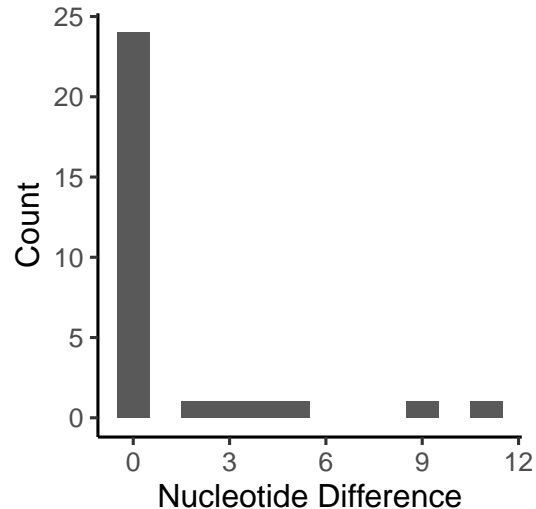
IGHV3–7*05

33 sequences assigned
27 (81.8%) exact matches, in which:
27 unique CDR3
5 unique J



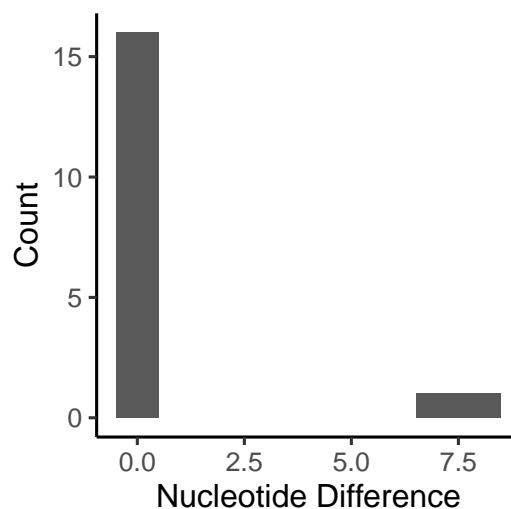
IGHV2–5*02

30 sequences assigned
24 (80%) exact matches, in which:
24 unique CDR3
4 unique J



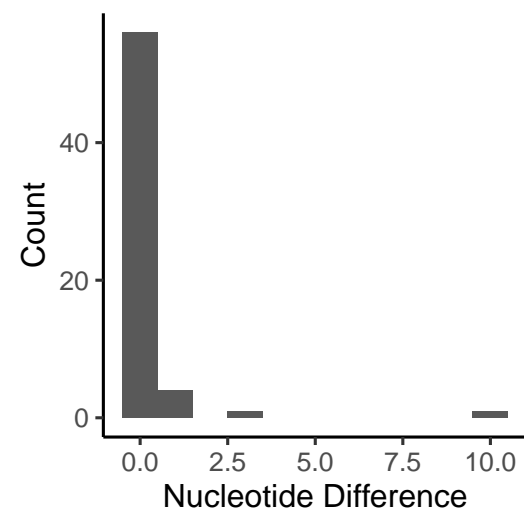
IGHV2–70*15

18 sequences assigned
16 (88.9%) exact matches, in which:
16 unique CDR3
5 unique J



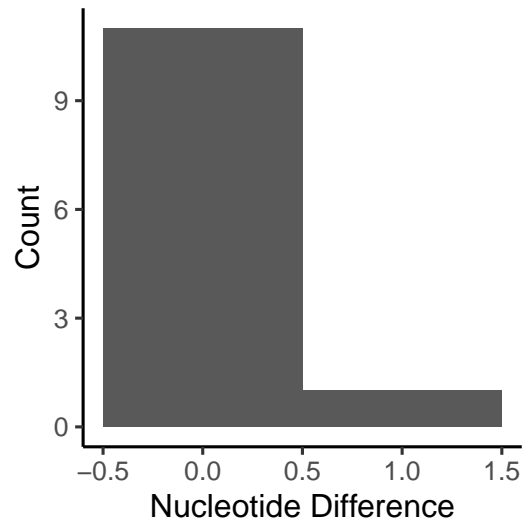
IGHV3–11*06

62 sequences assigned
56 (90.3%) exact matches, in which:
56 unique CDR3
6 unique J



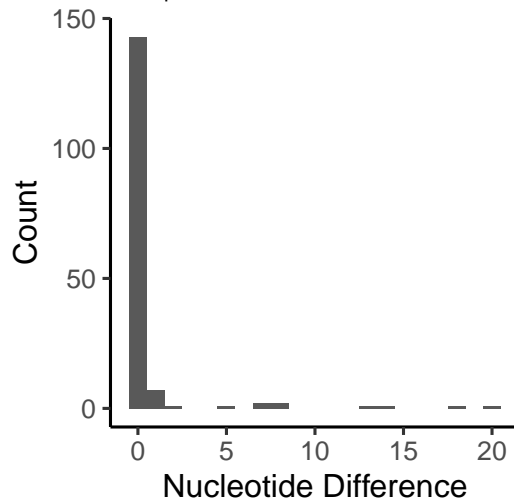
IGHV3-13*05

12 sequences assigned
11 (91.7%) exact matches, in which:
11 unique CDR3
5 unique J



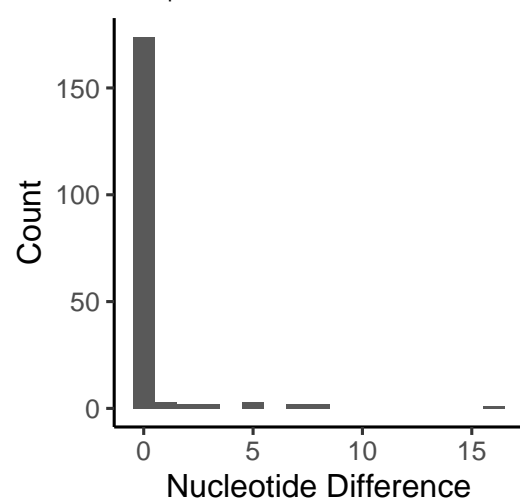
IGHV3-23*04

162 sequences assigned
143 (88.3%) exact matches, in which:
143 unique CDR3
7 unique J



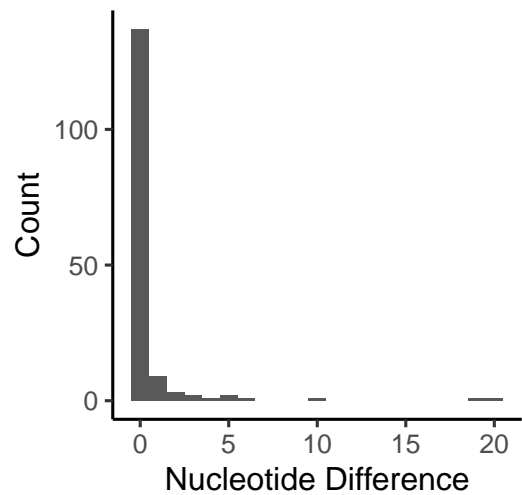
IGHV3-48*03

189 sequences assigned
174 (92.1%) exact matches, in which:
174 unique CDR3
6 unique J



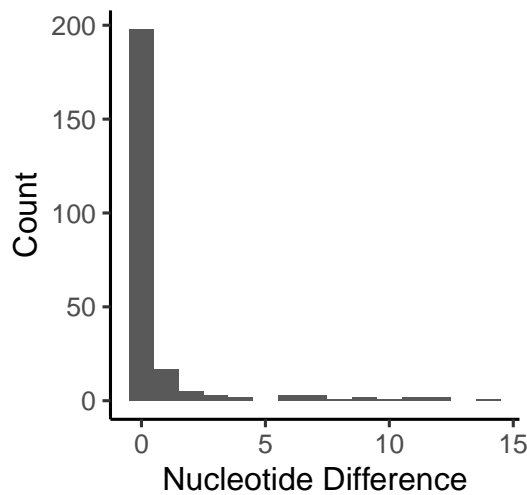
IGHV3-15*01

158 sequences assigned
137 (86.7%) exact matches, in which:
137 unique CDR3
7 unique J



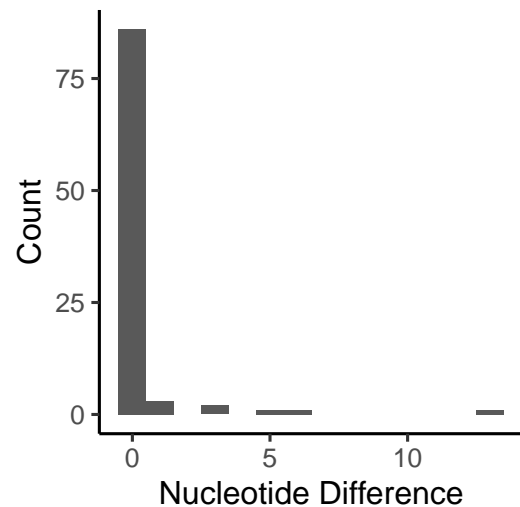
IGHV3-33*01

241 sequences assigned
198 (82.2%) exact matches, in which:
198 unique CDR3
7 unique J



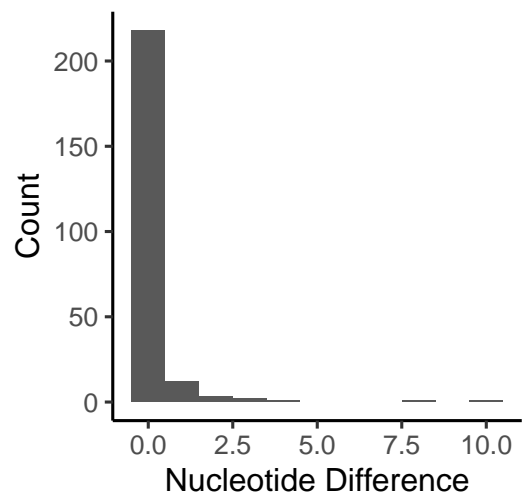
IGHV3-48*04

94 sequences assigned
86 (91.5%) exact matches, in which:
86 unique CDR3
7 unique J



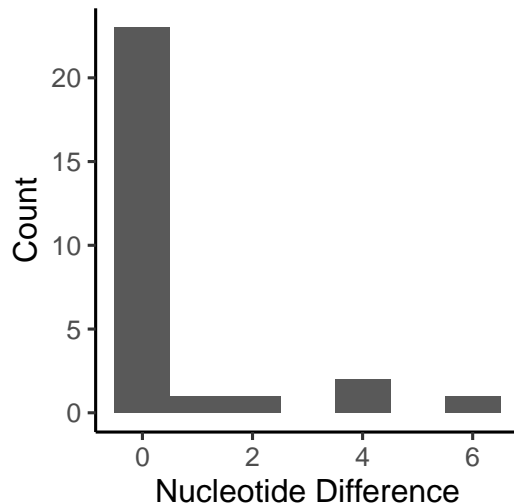
IGHV3-21*01

239 sequences assigned
218 (91.2%) exact matches, in which:
218 unique CDR3
7 unique J



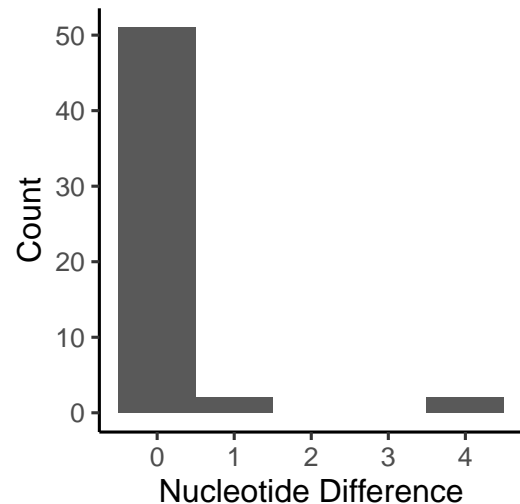
IGHV3-43*01

28 sequences assigned
23 (82.1%) exact matches, in which:
23 unique CDR3
5 unique J



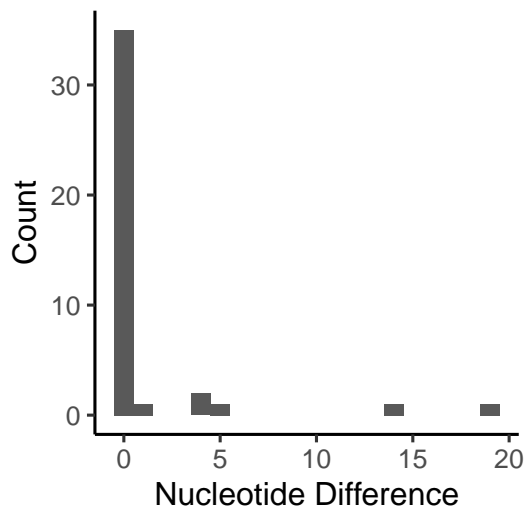
IGHV3-49*03

55 sequences assigned
51 (92.7%) exact matches, in which:
51 unique CDR3
6 unique J



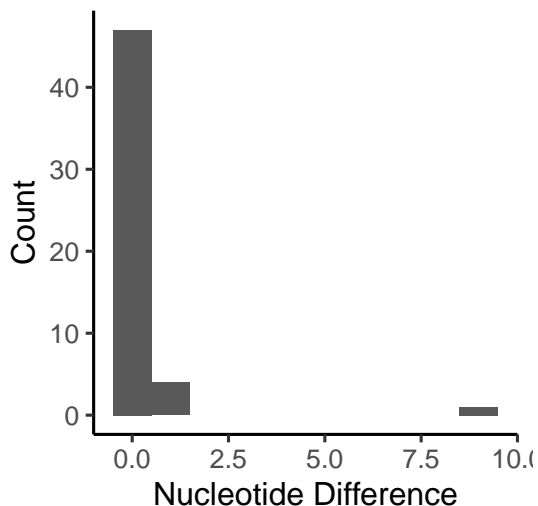
IGHV3-49*04

41 sequences assigned
35 (85.4%) exact matches, in which:
35 unique CDR3
6 unique J



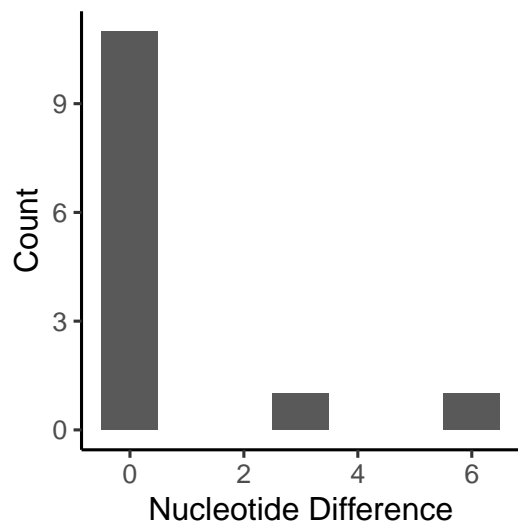
IGHV3-66*01

52 sequences assigned
47 (90.4%) exact matches, in which:
47 unique CDR3
5 unique J



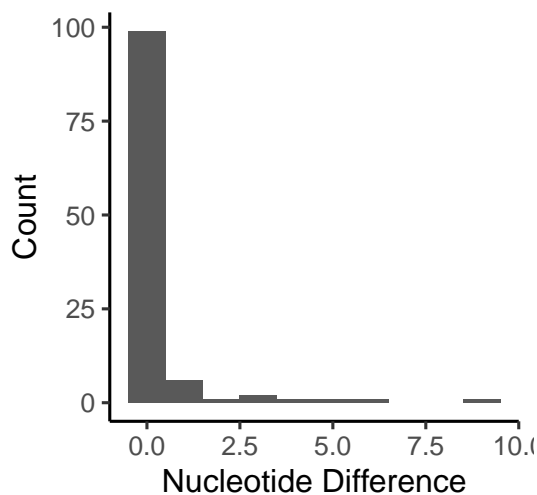
IGHV3-73*02

16 sequences assigned
11 (68.8%) exact matches, in which:
11 unique CDR3
4 unique J



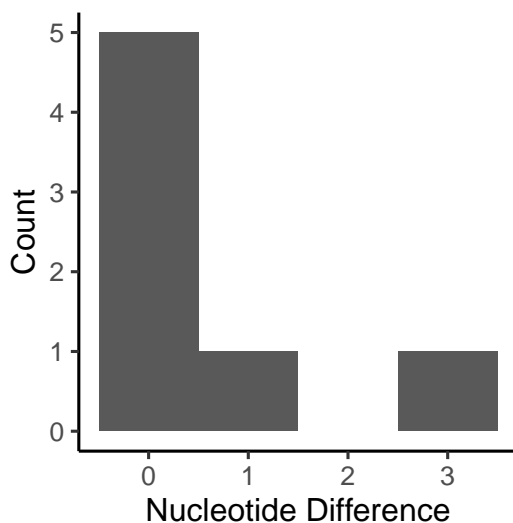
IGHV3-53*04

112 sequences assigned
99 (88.4%) exact matches, in which:
99 unique CDR3
7 unique J



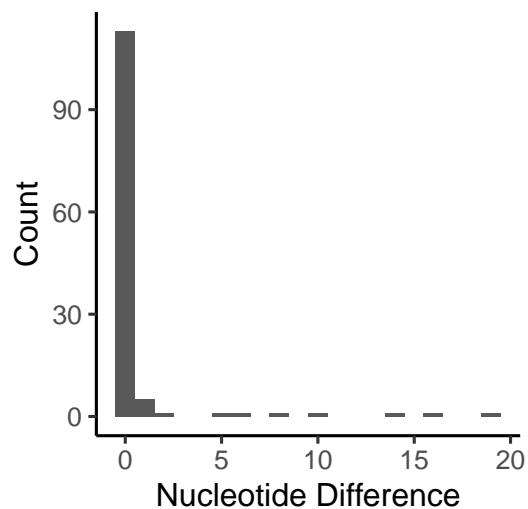
IGHV3-72*01

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



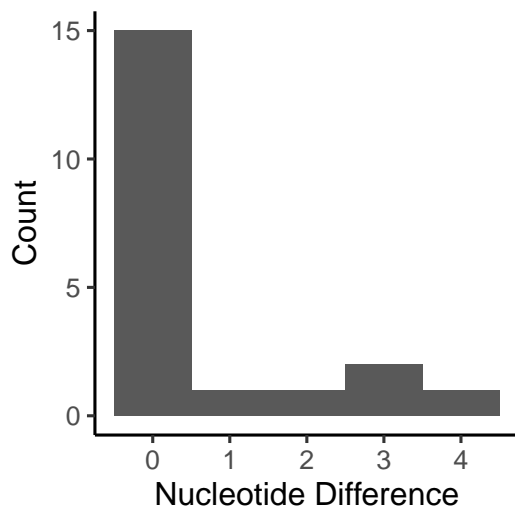
IGHV3-74*01

126 sequences assigned
113 (89.7%) exact matches, in which:
113 unique CDR3
7 unique J



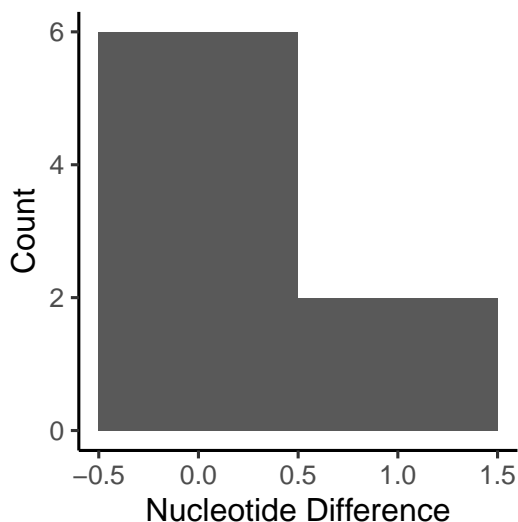
IGHV3-64*01

20 sequences assigned
15 (75%) exact matches, in which:
15 unique CDR3
4 unique J



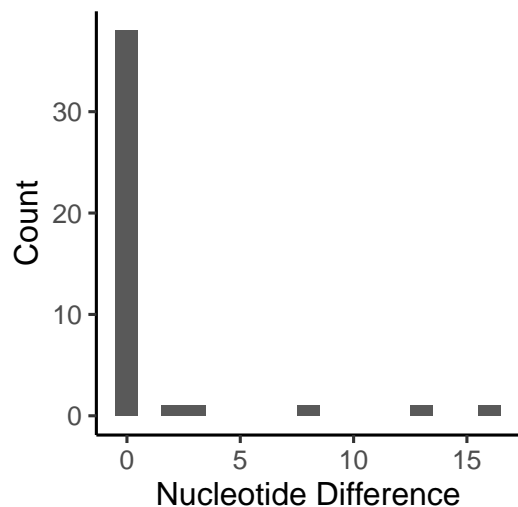
IGHV3-73*01

8 sequences assigned
6 (75%) exact matches, in which:
6 unique CDR3
2 unique J



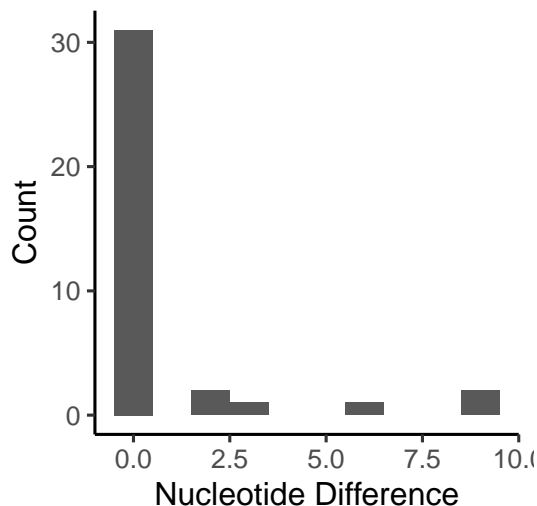
IGHV3-64D*06

43 sequences assigned
38 (88.4%) exact matches, in which:
38 unique CDR3
5 unique J



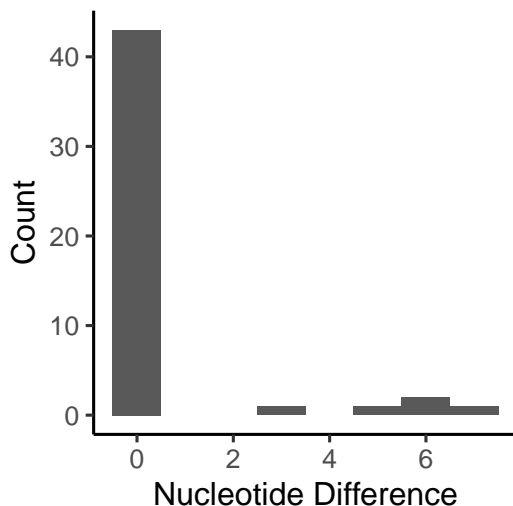
IGHV3–64D*08

37 sequences assigned
31 (83.8%) exact matches, in which:
31 unique CDR3
6 unique J



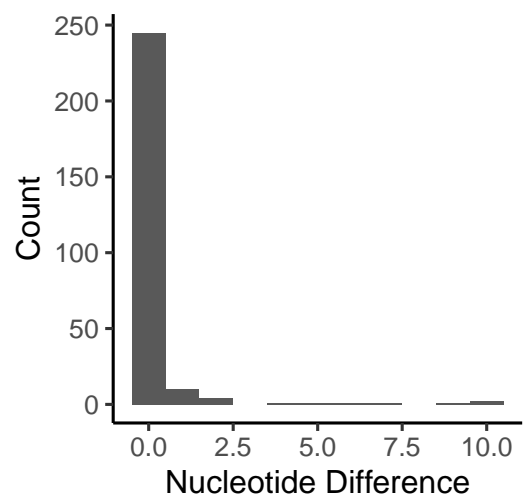
IGHV4–31*03

50 sequences assigned
43 (86%) exact matches, in which:
43 unique CDR3
5 unique J



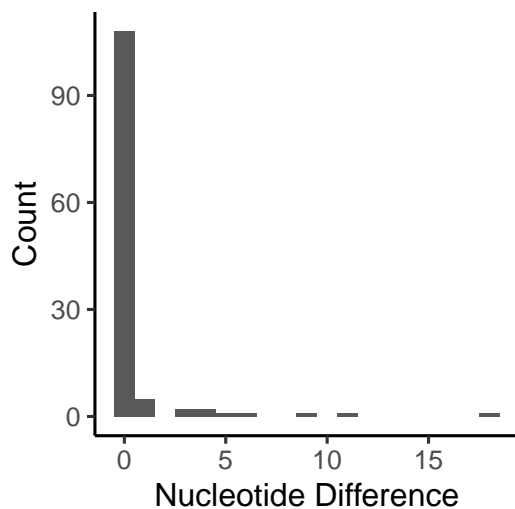
IGHV4–39*07

266 sequences assigned
245 (92.1%) exact matches, in which:
245 unique CDR3
6 unique J



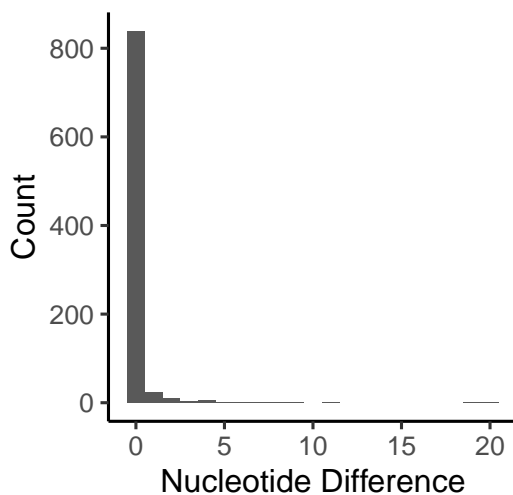
IGHV4–4*02

122 sequences assigned
108 (88.5%) exact matches, in which:
108 unique CDR3
7 unique J



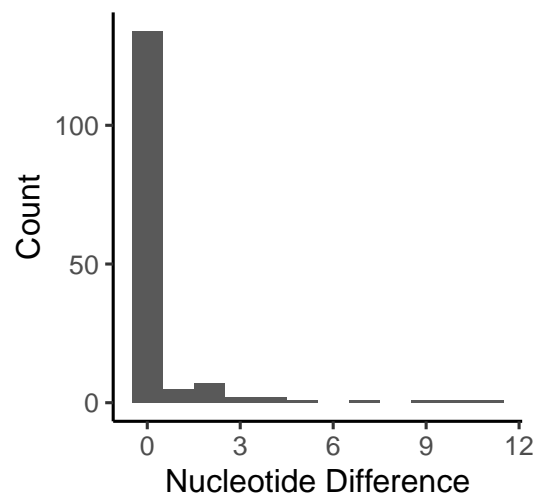
IGHV4–34*01

895 sequences assigned
839 (93.7%) exact matches, in which:
839 unique CDR3
7 unique J



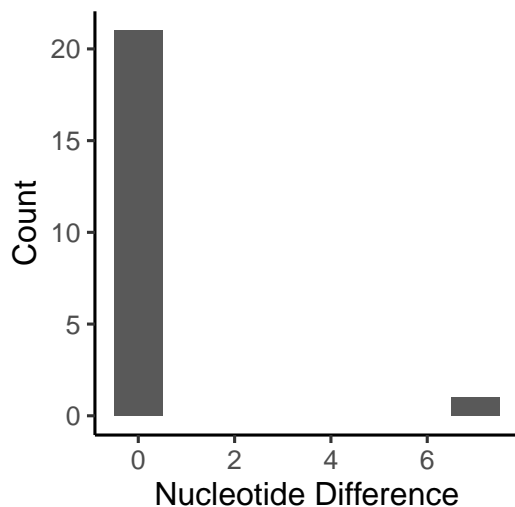
IGHV4–59*01

156 sequences assigned
134 (85.9%) exact matches, in which:
134 unique CDR3
7 unique J



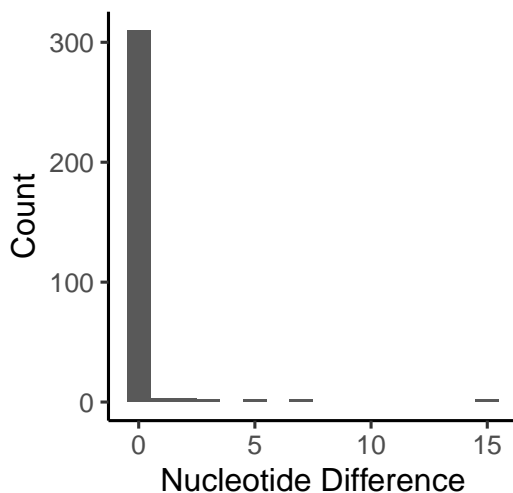
IGHV4–30–2*01

23 sequences assigned
21 (91.3%) exact matches, in which:
21 unique CDR3
4 unique J



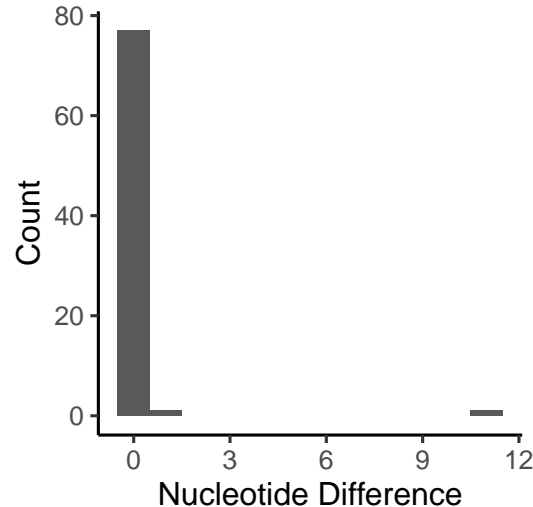
IGHV4–39*01

325 sequences assigned
310 (95.4%) exact matches, in which:
309 unique CDR3
7 unique J



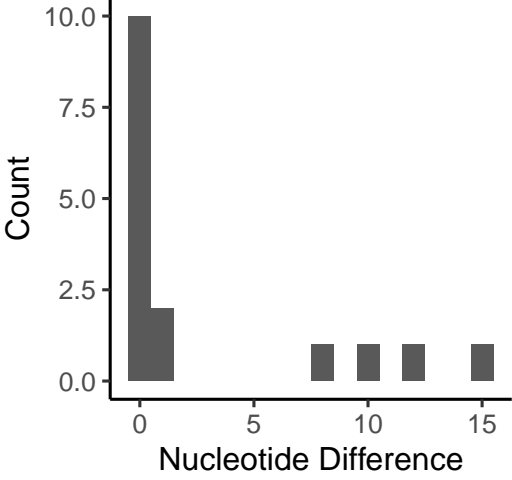
IGHV4–59*08

79 sequences assigned
77 (97.5%) exact matches, in which:
77 unique CDR3
6 unique J



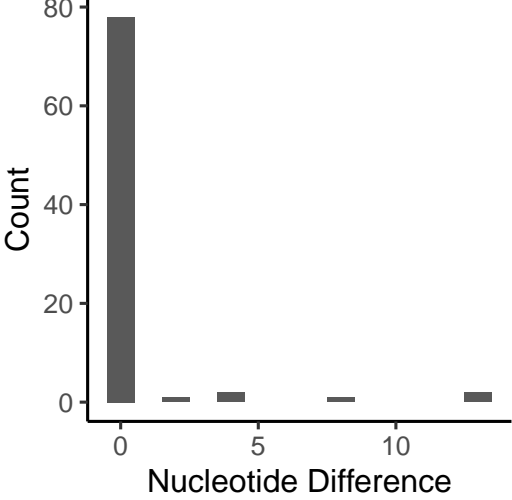
IGHV4-61*01

16 sequences assigned
10 (62.5%) exact matches, in which:
10 unique CDR3
3 unique J



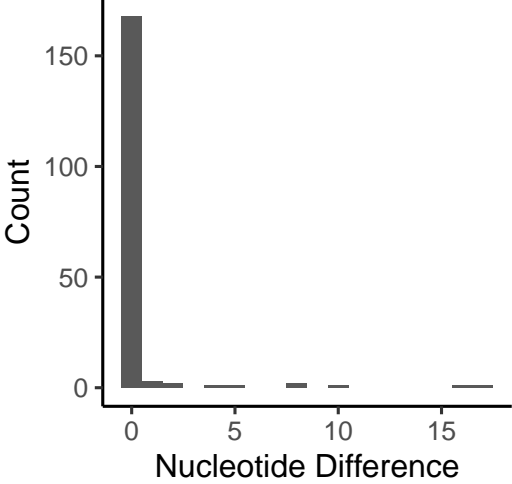
IGHV6-1*01

84 sequences assigned
78 (92.9%) exact matches, in which:
78 unique CDR3
6 unique J



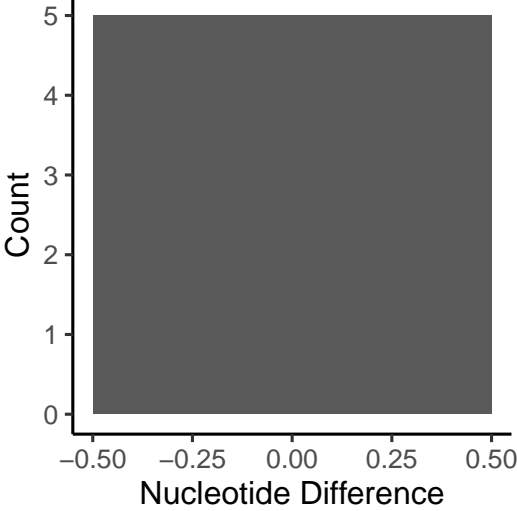
IGHV5-10-1*03

180 sequences assigned
168 (93.3%) exact matches, in which:
168 unique CDR3
7 unique J



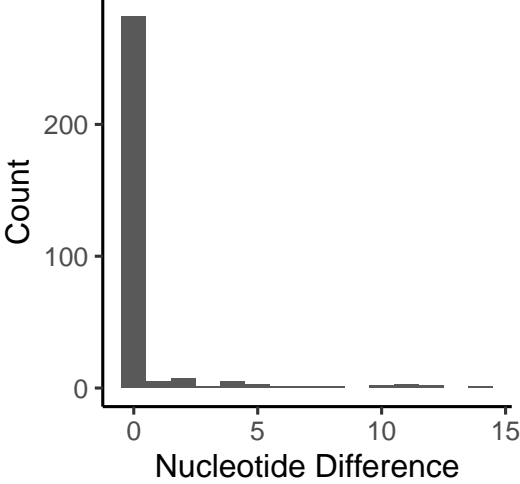
IGHV7-4-1*01

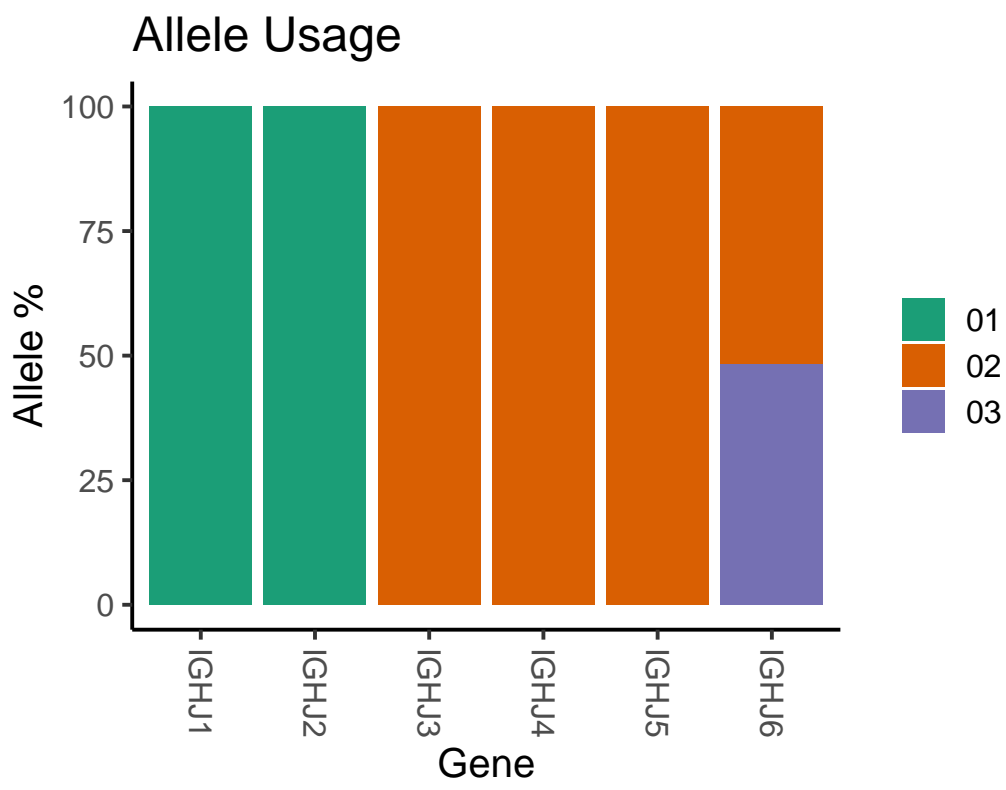
5 sequences assigned
5 (100%) exact matches, in which:
5 unique CDR3
3 unique J



IGHV5-51*01

315 sequences assigned
282 (89.5%) exact matches, in which:
282 unique CDR3
7 unique J





Sequence Count by IGHJ6 allele usage

