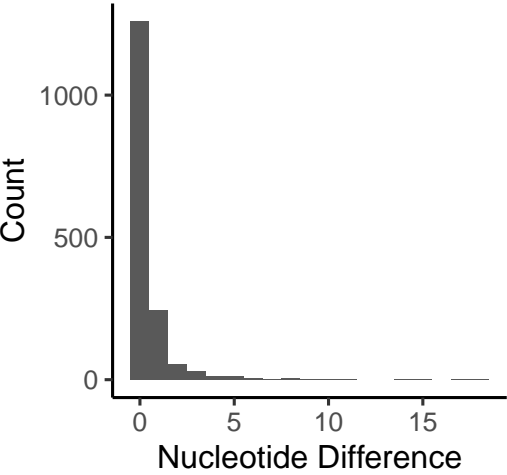


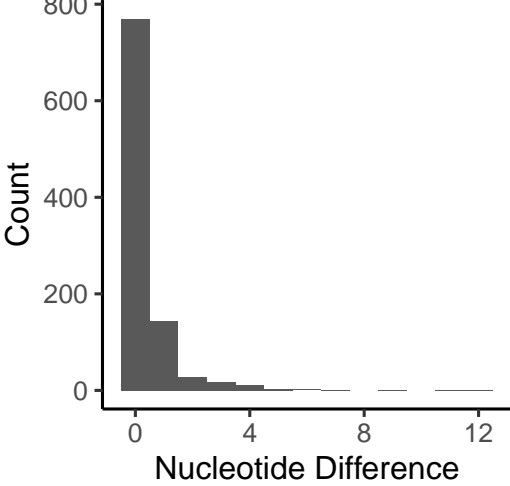
IGKV1-5\*03

1636 sequences assigned  
1259 (77%) exact matches, in which:  
958 unique CDR3  
6 unique J



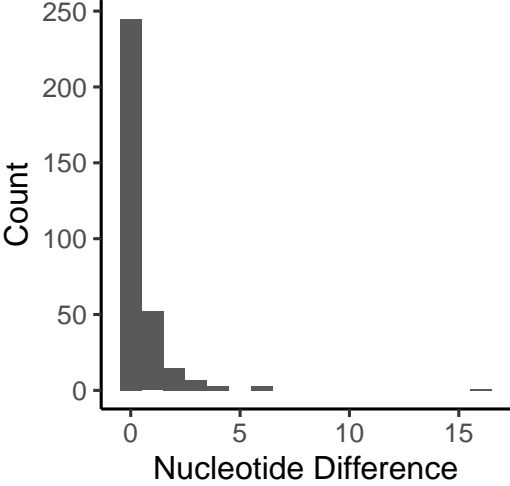
IGKV1-9\*01

979 sequences assigned  
770 (78.7%) exact matches, in which:  
596 unique CDR3  
6 unique J



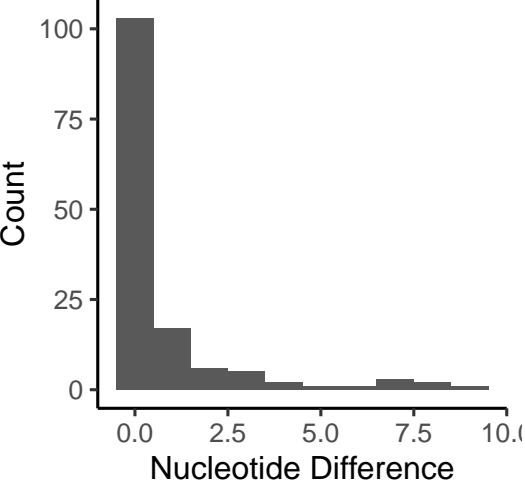
IGKV1-27\*01

326 sequences assigned  
245 (75.2%) exact matches, in which:  
193 unique CDR3  
6 unique J



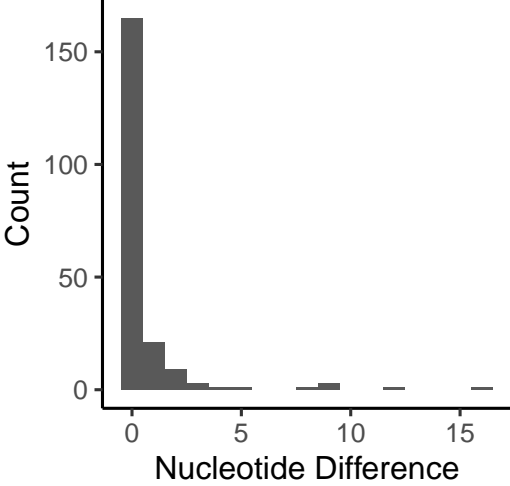
IGKV1-6\*01

141 sequences assigned  
103 (73%) exact matches, in which:  
78 unique CDR3  
6 unique J



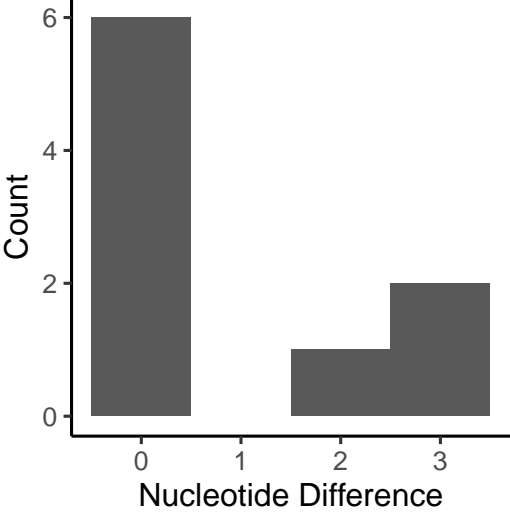
IGKV1-16\*02

206 sequences assigned  
165 (80.1%) exact matches, in which:  
132 unique CDR3  
6 unique J



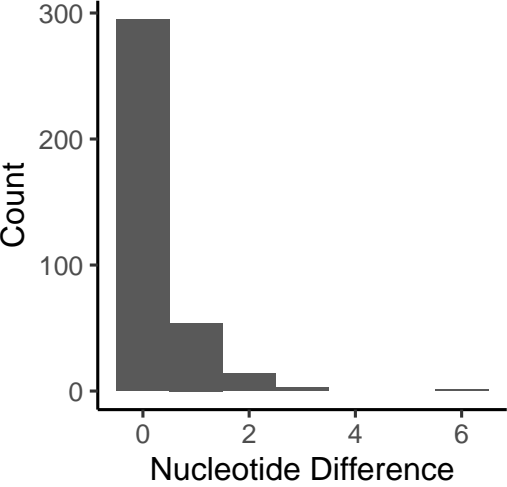
IGKV2/OR22-4\*01

9 sequences assigned  
6 (66.7%) exact matches, in which:  
4 unique CDR3  
3 unique J



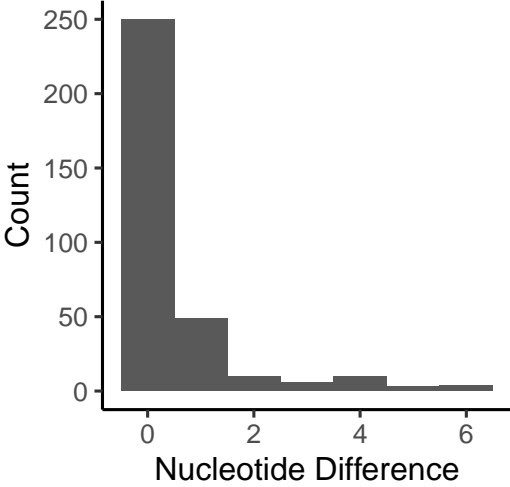
IGKV1-8\*01

367 sequences assigned  
295 (80.4%) exact matches, in which:  
218 unique CDR3  
6 unique J



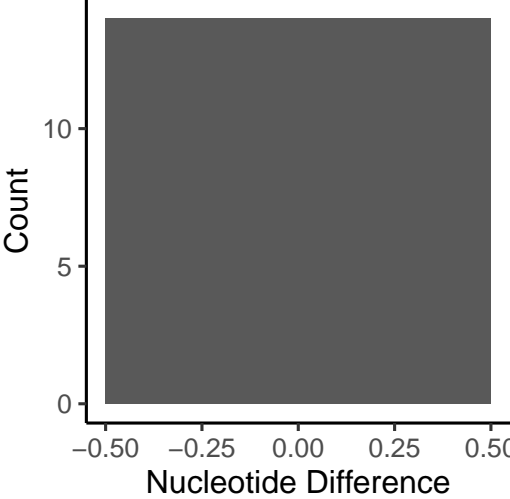
IGKV1-17\*01

332 sequences assigned  
250 (75.3%) exact matches, in which:  
195 unique CDR3  
6 unique J



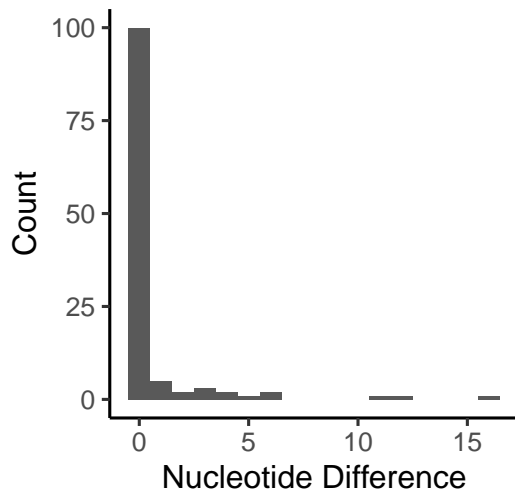
IGKV2-18\*01

14 sequences assigned  
14 (100%) exact matches, in which:  
13 unique CDR3  
4 unique J



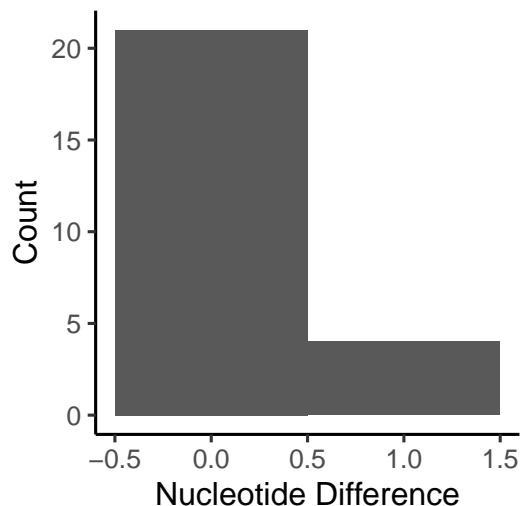
### IGKV2–24\*01

118 sequences assigned  
100 (84.7%) exact matches, in which:  
91 unique CDR3  
6 unique J



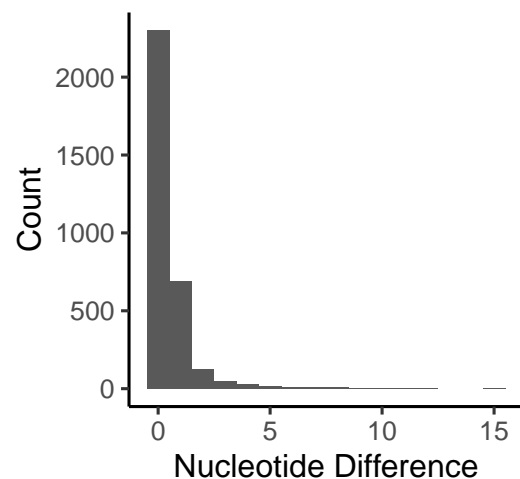
### IGKV3–7\*04

25 sequences assigned  
21 (84%) exact matches, in which:  
20 unique CDR3  
5 unique J



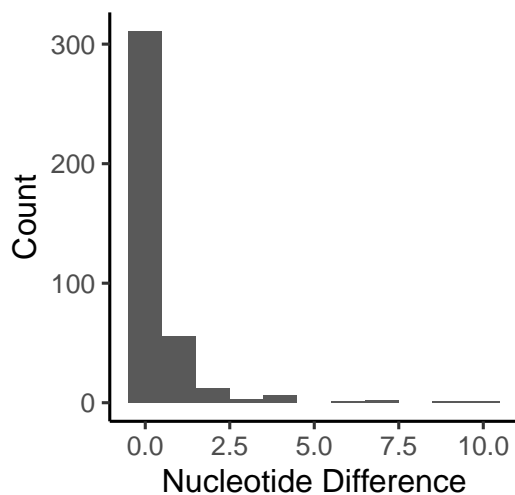
### IGKV3–20\*01

3244 sequences assigned  
2300 (70.9%) exact matches, in which:  
1804 unique CDR3  
6 unique J



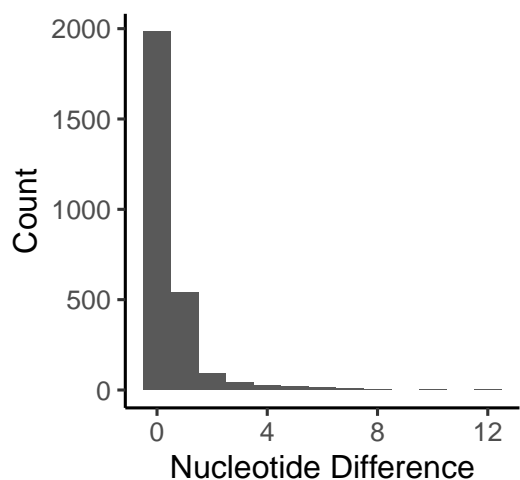
### IGKV2–30\*01

393 sequences assigned  
311 (79.1%) exact matches, in which:  
272 unique CDR3  
6 unique J



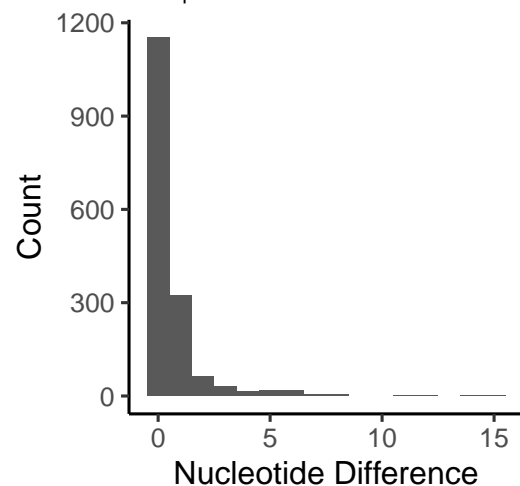
### IGKV3–11\*01

2729 sequences assigned  
1983 (72.7%) exact matches, in which:  
1504 unique CDR3  
6 unique J



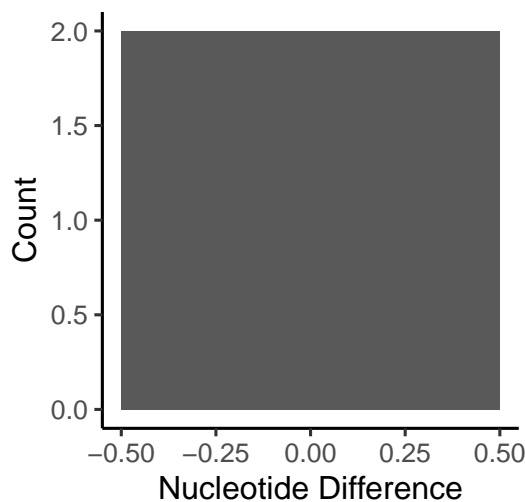
### IGKV4–1\*01

1631 sequences assigned  
1152 (70.6%) exact matches, in which:  
829 unique CDR3  
6 unique J



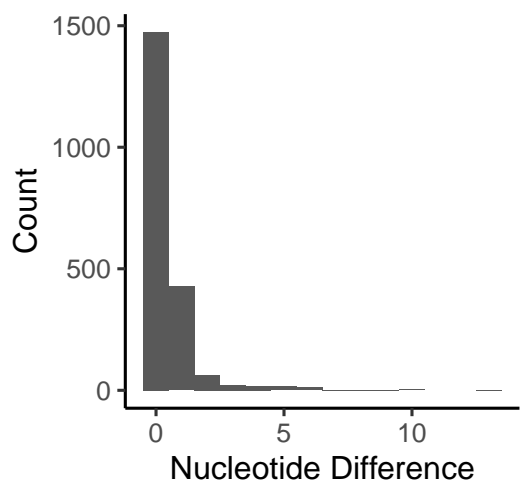
### IGKV1/OR2–108\*01

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



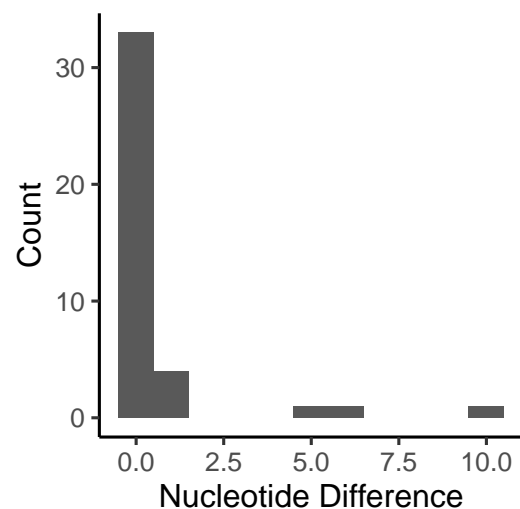
### IGKV3–15\*01

2041 sequences assigned  
1474 (72.2%) exact matches, in which:  
1150 unique CDR3  
6 unique J



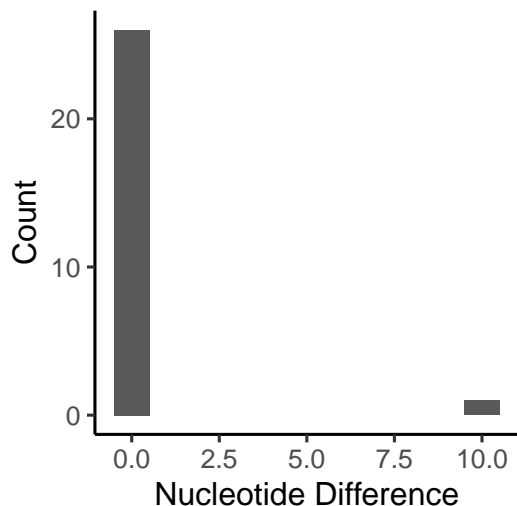
### IGKV5–2\*01

40 sequences assigned  
33 (82.5%) exact matches, in which:  
30 unique CDR3  
4 unique J



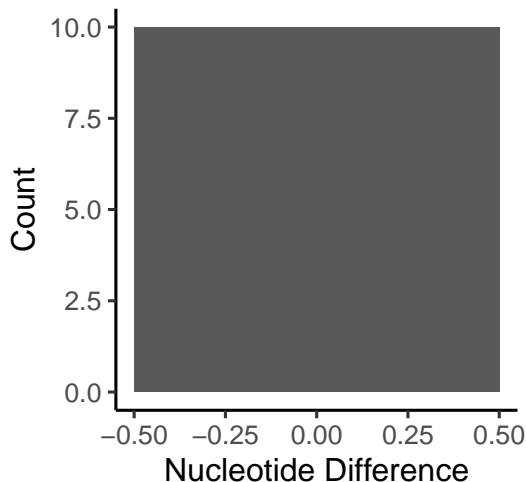
### IGKV5-2\*01\_C214T

27 sequences assigned  
26 (96.3%) exact matches, in which:  
25 unique CDR3  
4 unique J



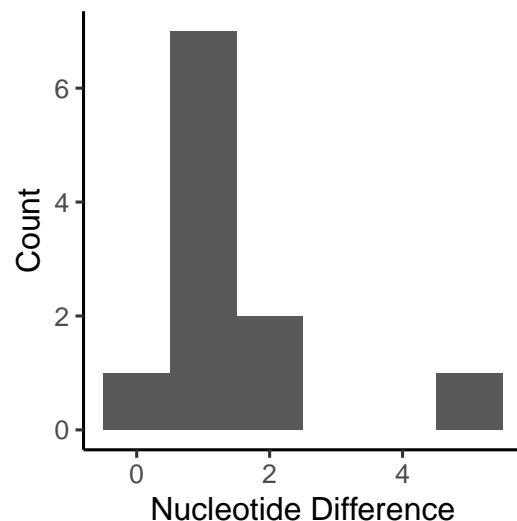
### IGKV3D-7\*01

10 sequences assigned  
10 (100%) exact matches, in which:  
8 unique CDR3  
4 unique J



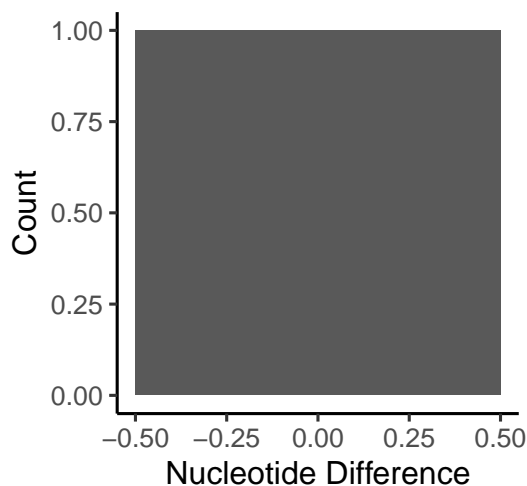
### IGKV3D-11\*02\_C247T

11 sequences assigned  
1 (9.1%) exact matches, in which:  
1 unique CDR3  
1 unique J



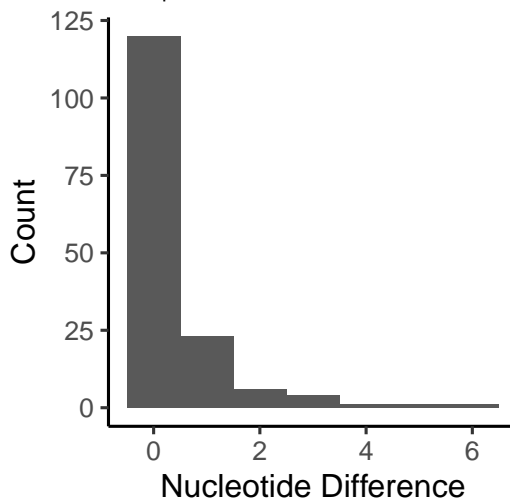
### IGKV1/OR15-118\*01

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



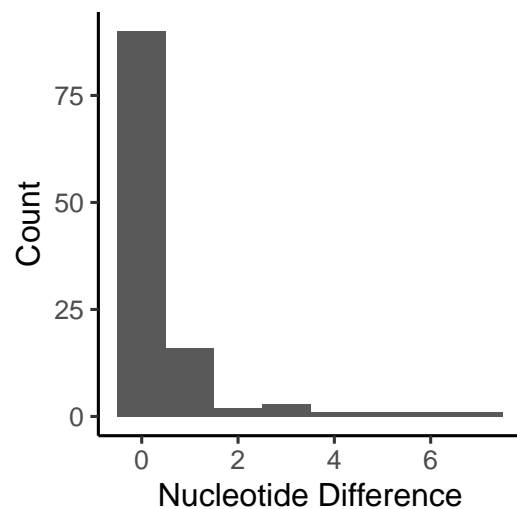
### IGKV1D-8\*01

156 sequences assigned  
120 (76.9%) exact matches, in which:  
83 unique CDR3  
6 unique J



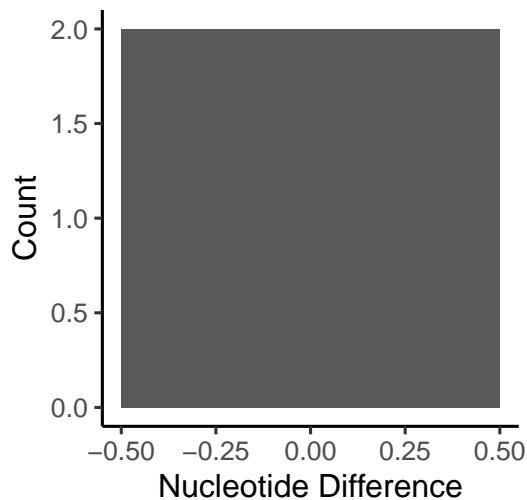
### IGKV3D-15\*01

115 sequences assigned  
90 (78.3%) exact matches, in which:  
81 unique CDR3  
6 unique J



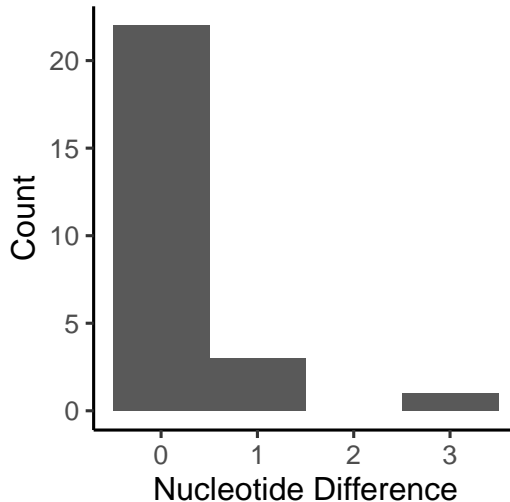
### IGKV7-3\*01

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



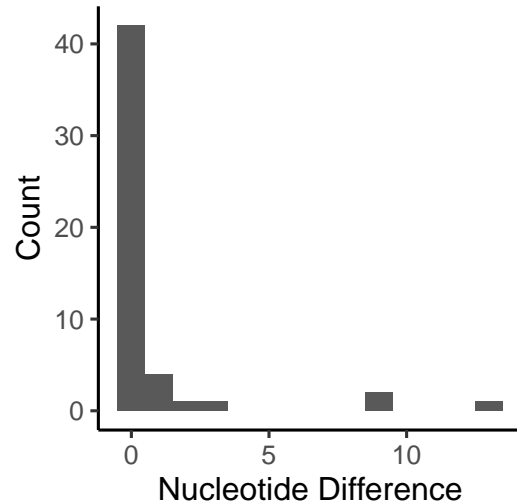
### IGKV3D-11\*01

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



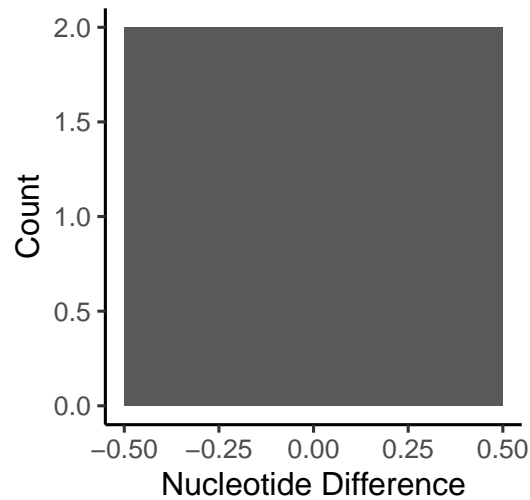
### IGKV1D-16\*01

51 sequences assigned  
42 (82.4%) exact matches, in which:  
37 unique CDR3  
6 unique J



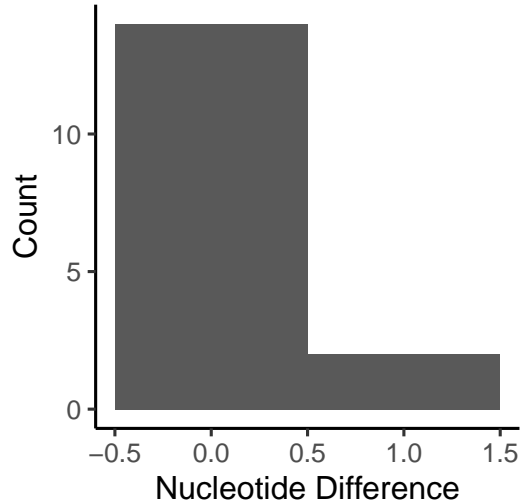
### IGKV1D-17\*01

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



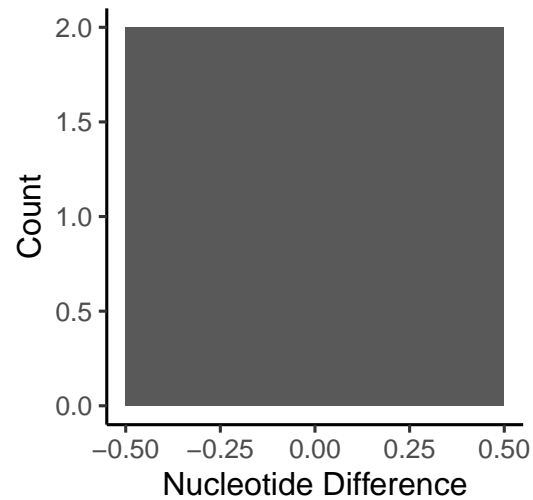
### IGKV2D-26\*03

16 sequences assigned  
14 (87.5%) exact matches, in which:  
13 unique CDR3  
6 unique J



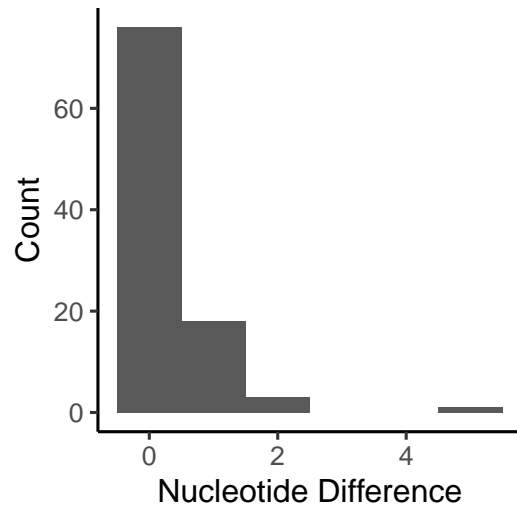
### IGKV6D-41\*01

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



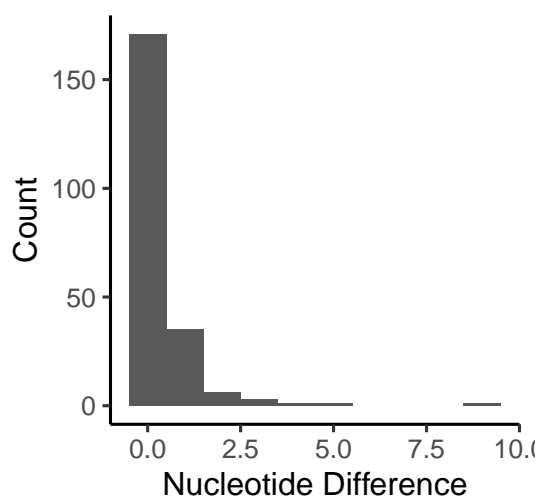
### IGKV3D-20\*01

98 sequences assigned  
76 (77.6%) exact matches, in which:  
68 unique CDR3  
6 unique J



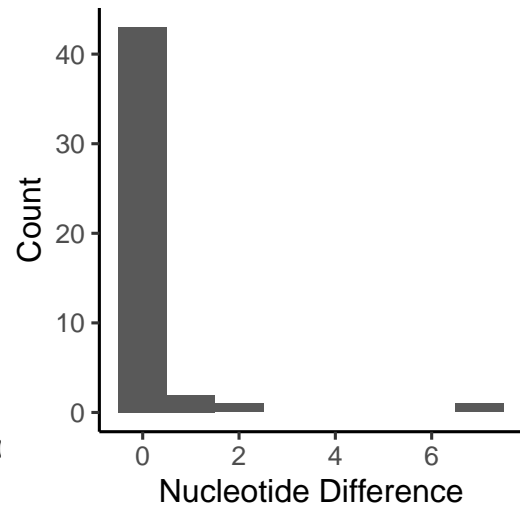
### IGKV2D-29\*01

218 sequences assigned  
171 (78.4%) exact matches, in which:  
150 unique CDR3  
6 unique J



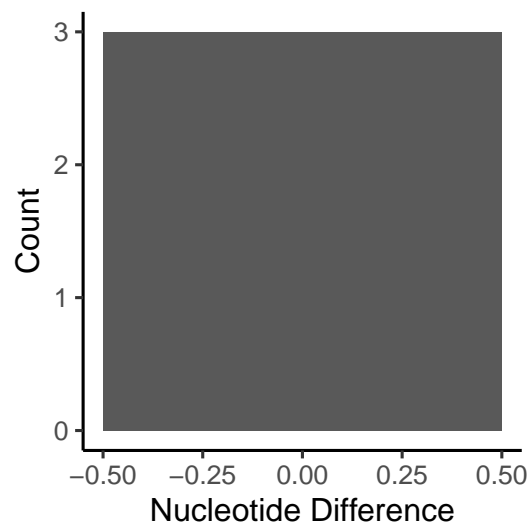
### IGKV1D-43\*01

47 sequences assigned  
43 (91.5%) exact matches, in which:  
41 unique CDR3  
6 unique J



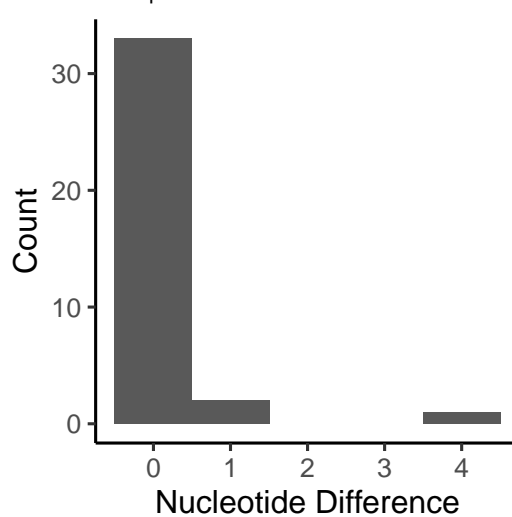
### IGKV2D-24\*01

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



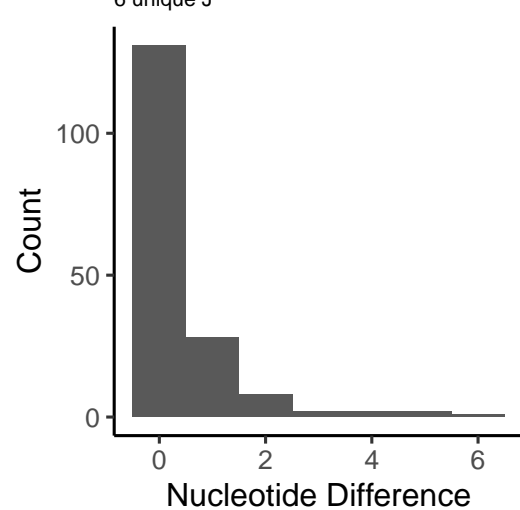
### IGKV2D-30\*01

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



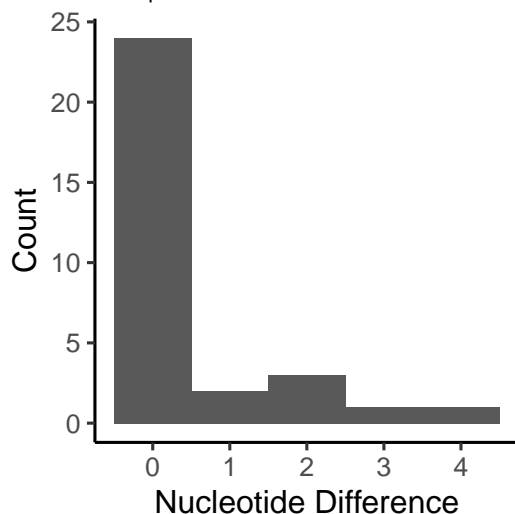
### IGKV1E-12\*01

174 sequences assigned  
131 (75.3%) exact matches, in which:  
85 unique CDR3  
6 unique J



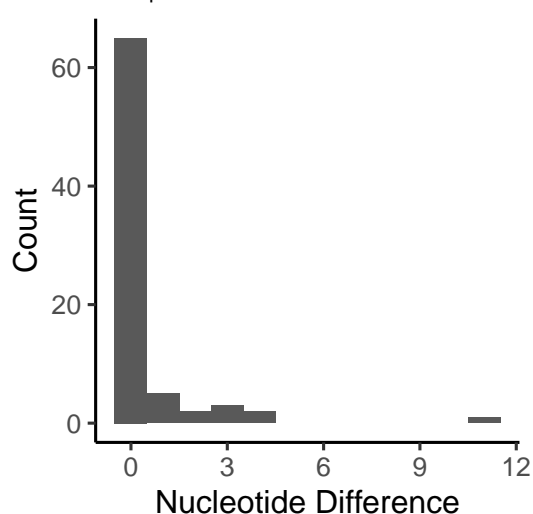
### IGKV1E-12\*02

31 sequences assigned  
24 (77.4%) exact matches, in which:  
19 unique CDR3  
6 unique J



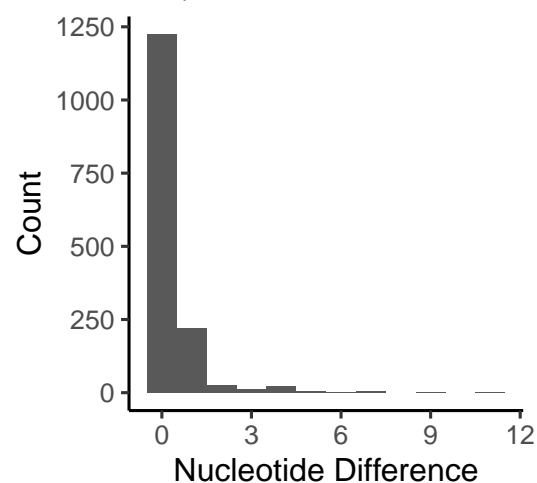
### IGKV6E-21\*01

78 sequences assigned  
65 (83.3%) exact matches, in which:  
53 unique CDR3  
6 unique J



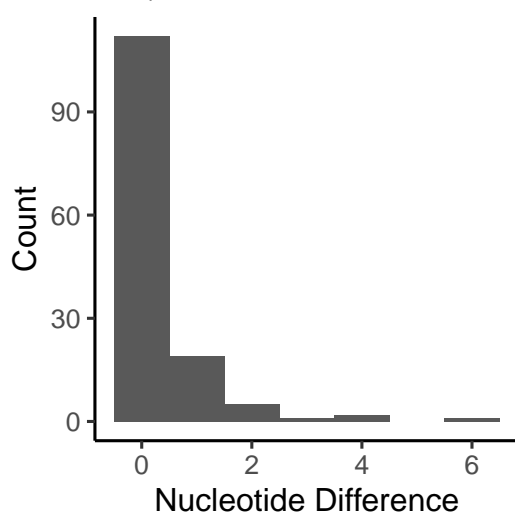
### IGKV1E-33\*01

1517 sequences assigned  
1224 (80.7%) exact matches, in which:  
935 unique CDR3  
6 unique J



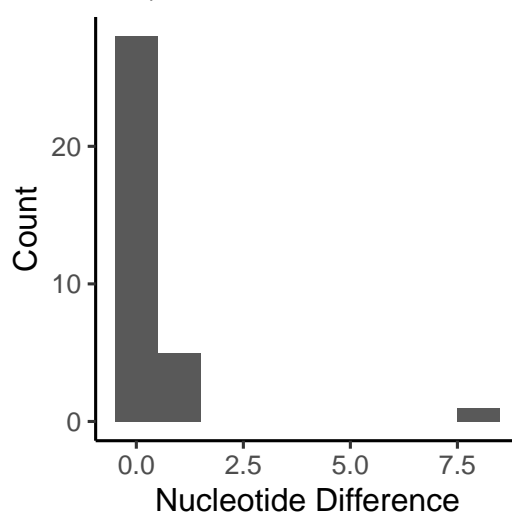
### IGKV1E-12\*03

140 sequences assigned  
112 (80%) exact matches, in which:  
87 unique CDR3  
6 unique J



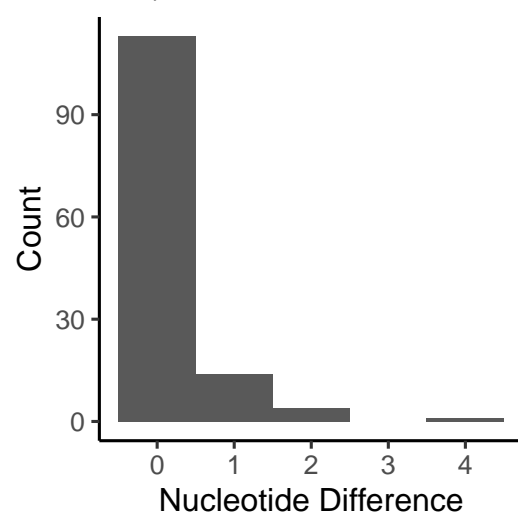
### IGKV6E-21\*03

34 sequences assigned  
28 (82.4%) exact matches, in which:  
26 unique CDR3  
6 unique J



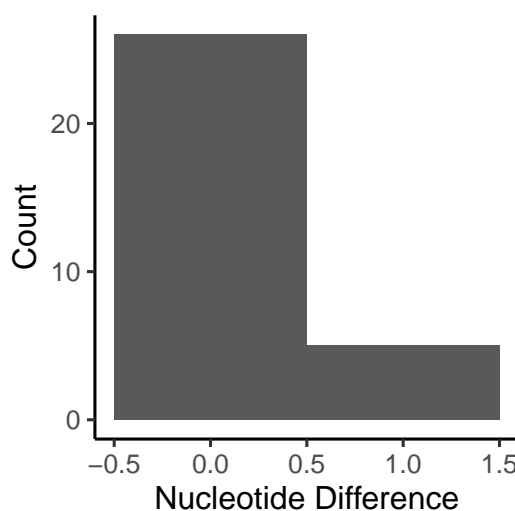
### IGKV1E-37\*01

132 sequences assigned  
113 (85.6%) exact matches, in which:  
99 unique CDR3  
6 unique J



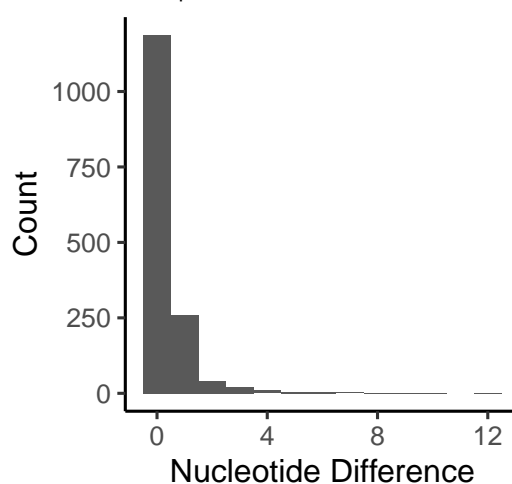
### IGKV1E-13\*03

31 sequences assigned  
26 (83.9%) exact matches, in which:  
23 unique CDR3  
5 unique J



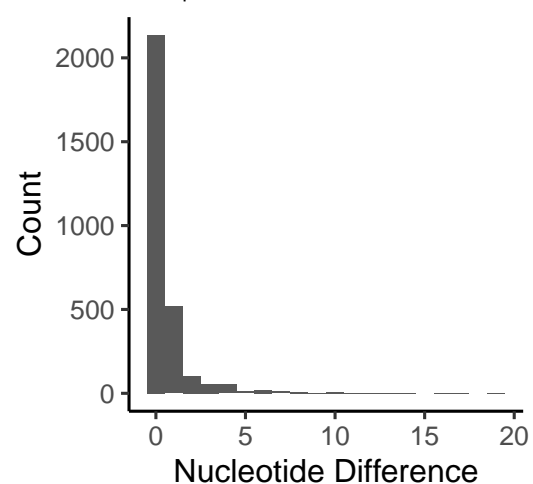
### IGKV2E-28\*01

1533 sequences assigned  
1187 (77.4%) exact matches, in which:  
913 unique CDR3  
6 unique J



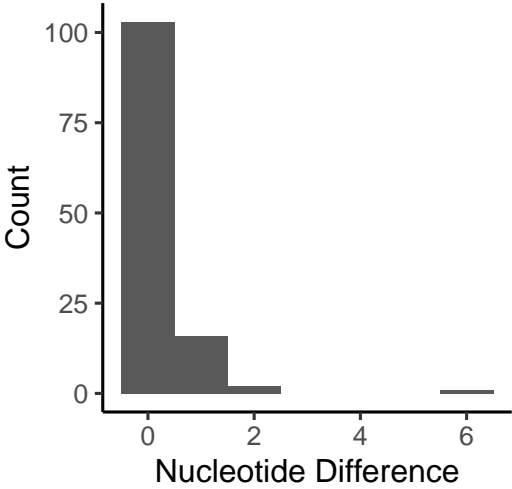
### IGKV1E-39\*01

2939 sequences assigned  
2136 (72.7%) exact matches, in which:  
1518 unique CDR3  
6 unique J

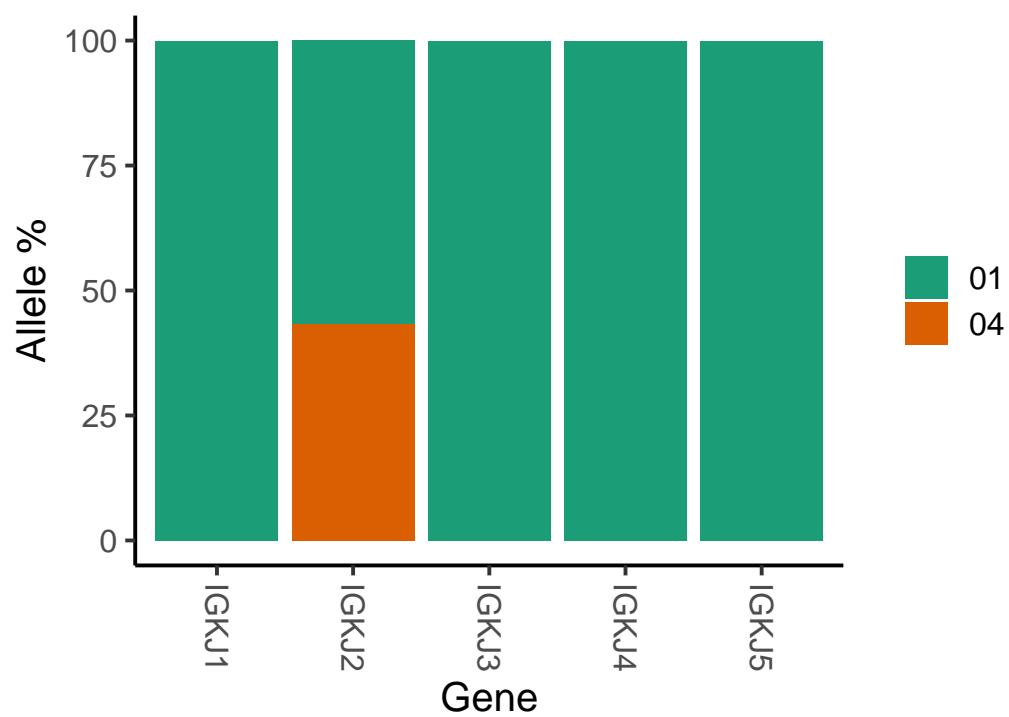


# IGKV2E-40\*01

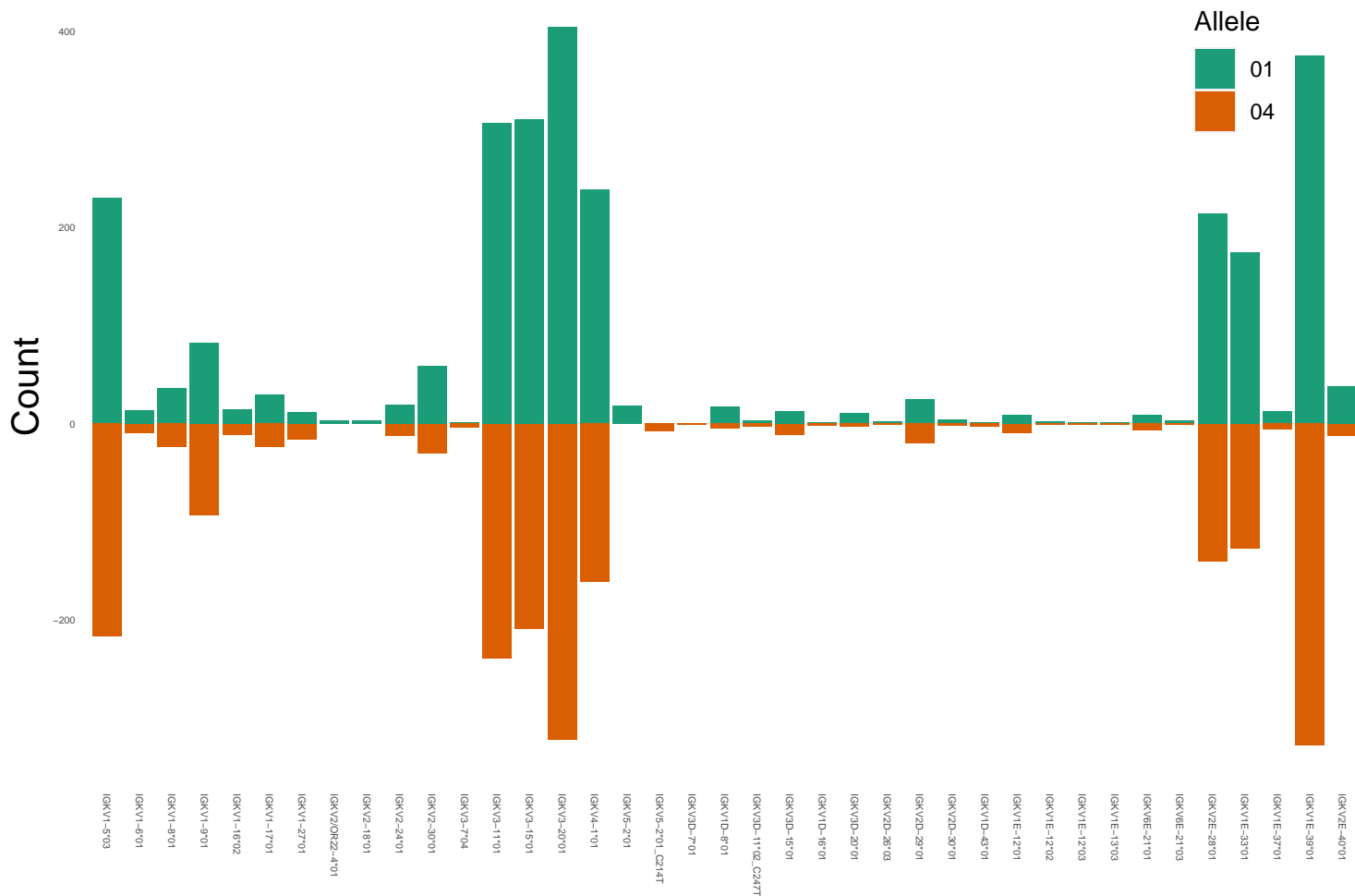
122 sequences assigned  
103 (84.4%) exact matches, in which:  
86 unique CDR3  
6 unique J



Allele Usage



Sequence Count by IGKJ2 allele usage





Warning – no inferred sequences found.