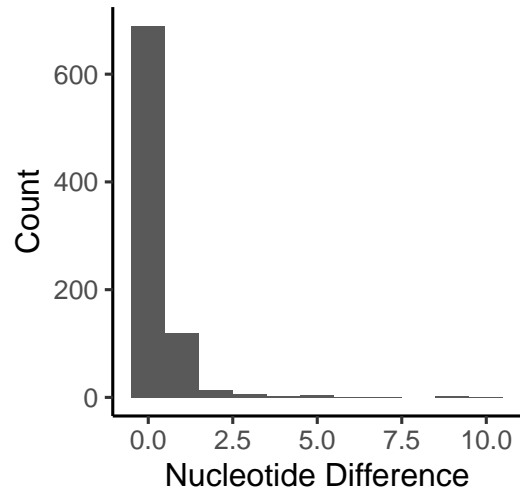


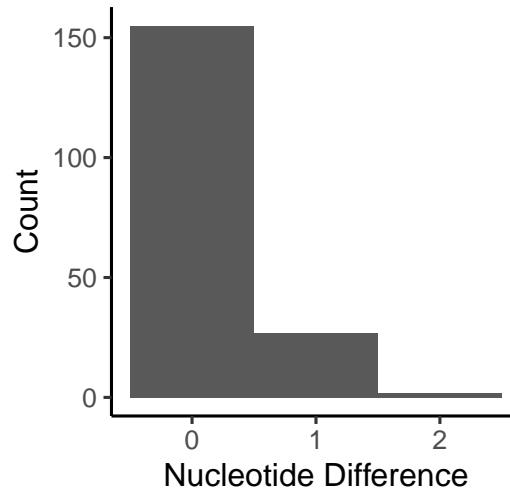
### IGKV1-5\*03

843 sequences assigned  
690 (81.9%) exact matches, in which:  
573 unique CDR3  
5 unique J



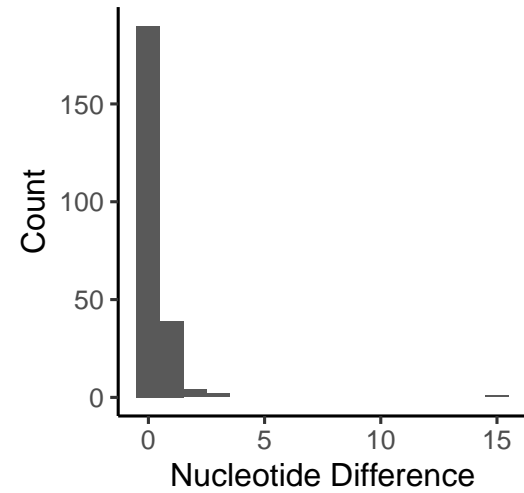
### IGKV1-8\*01

184 sequences assigned  
155 (84.2%) exact matches, in which:  
123 unique CDR3  
5 unique J



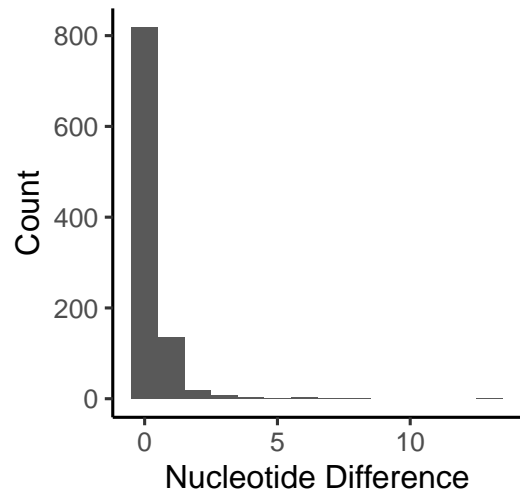
### IGKV1-16\*02

236 sequences assigned  
190 (80.5%) exact matches, in which:  
154 unique CDR3  
5 unique J



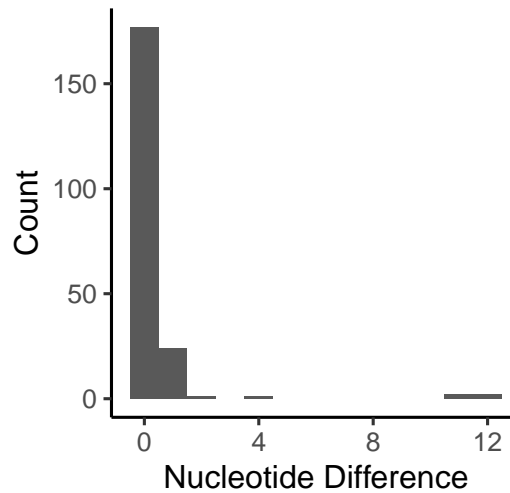
### IGKV1-5\*03\_G171A

994 sequences assigned  
819 (82.4%) exact matches, in which:  
691 unique CDR3  
5 unique J



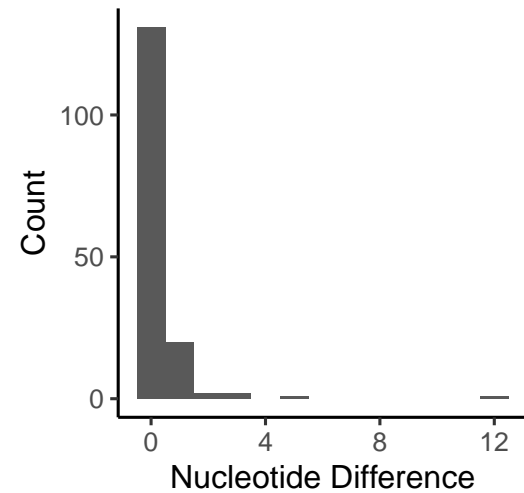
### IGKV1-8\*01\_G12A\_T31C

207 sequences assigned  
177 (85.5%) exact matches, in which:  
153 unique CDR3  
5 unique J



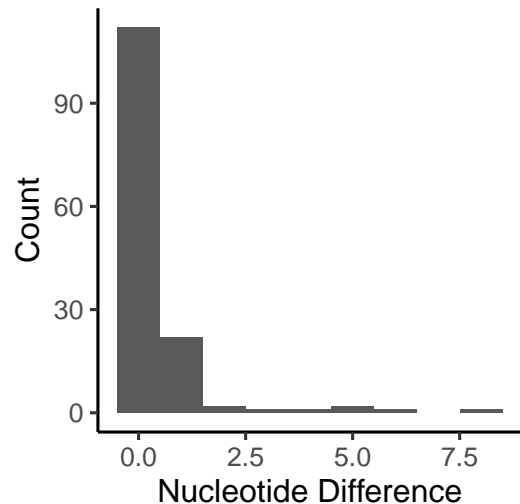
### IGKV1-17\*01

157 sequences assigned  
131 (83.4%) exact matches, in which:  
99 unique CDR3  
5 unique J



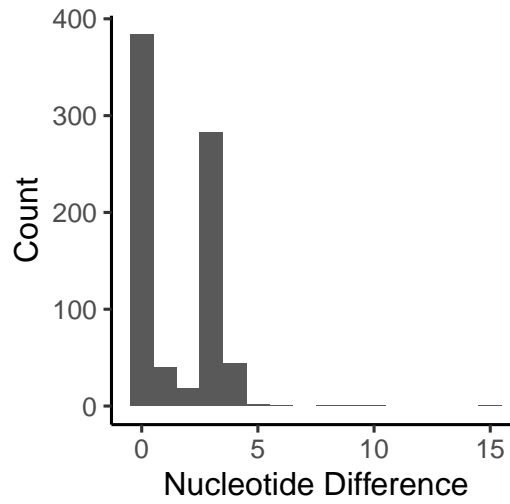
### IGKV1-6\*01

142 sequences assigned  
112 (78.9%) exact matches, in which:  
80 unique CDR3  
5 unique J



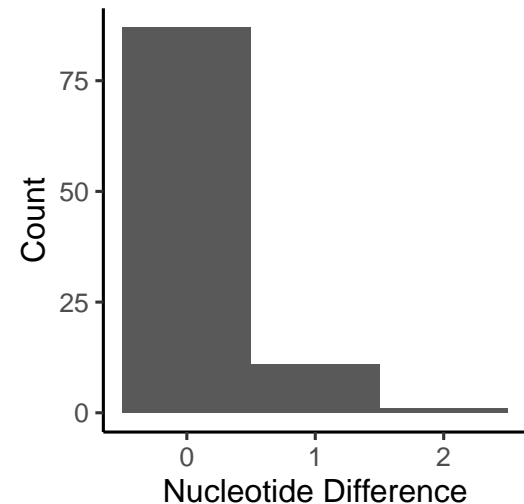
### IGKV1-9\*01

776 sequences assigned  
384 (49.5%) exact matches, in which:  
312 unique CDR3  
5 unique J



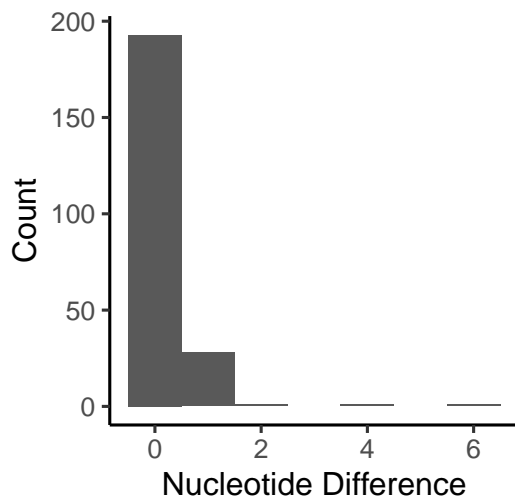
### IGKV1-17\*03

99 sequences assigned  
87 (87.9%) exact matches, in which:  
73 unique CDR3  
5 unique J



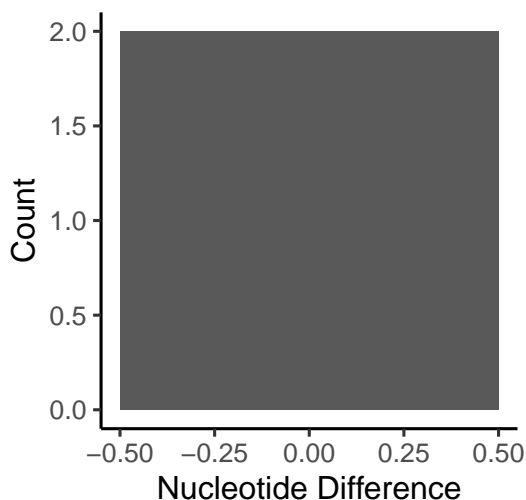
### IGKV1-27\*01

224 sequences assigned  
193 (86.2%) exact matches, in which:  
157 unique CDR3  
5 unique J



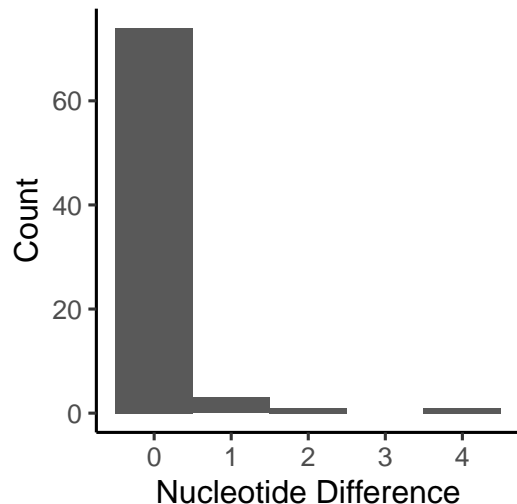
### IGKV1/OR2-1\*01

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



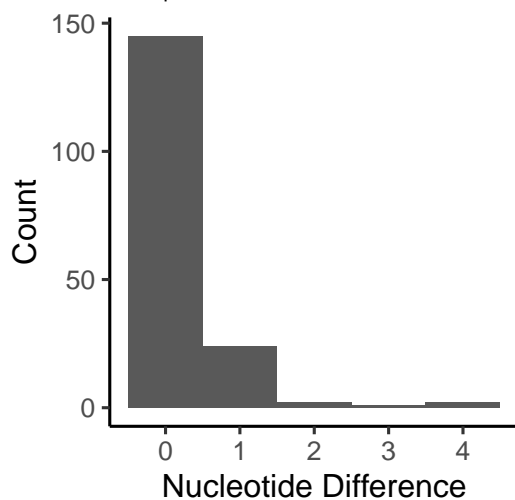
### IGKV2-24\*01

79 sequences assigned  
74 (93.7%) exact matches, in which:  
67 unique CDR3  
5 unique J



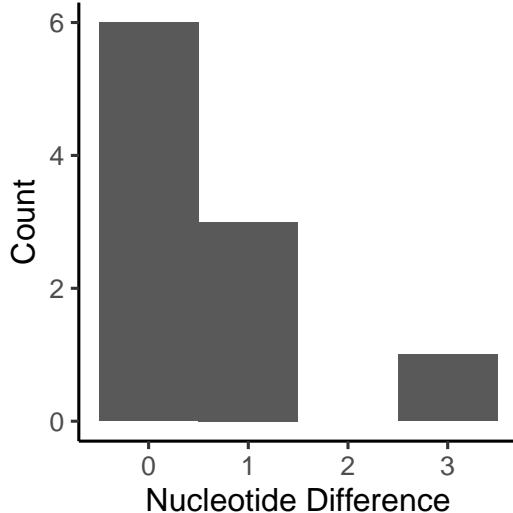
### IGKV1-27\*01\_T231C

174 sequences assigned  
145 (83.3%) exact matches, in which:  
113 unique CDR3  
5 unique J



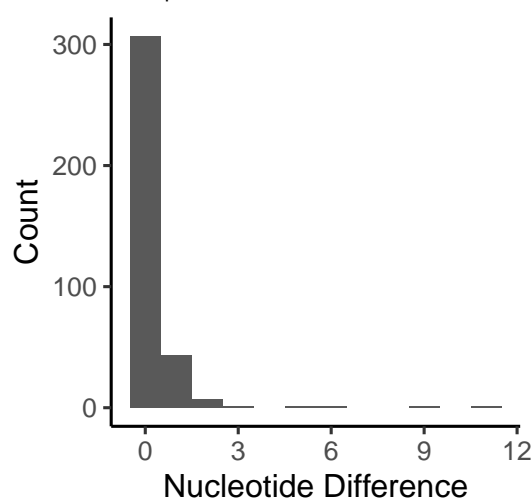
### IGKV2/OR22-4\*01

10 sequences assigned  
6 (60%) exact matches, in which:  
5 unique CDR3  
4 unique J



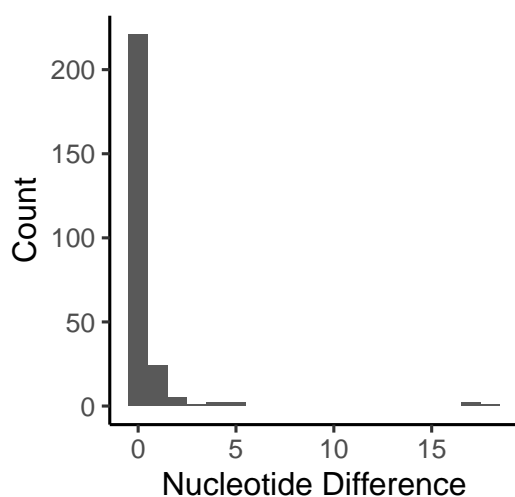
### IGKV2-29\*02

362 sequences assigned  
307 (84.8%) exact matches, in which:  
264 unique CDR3  
5 unique J



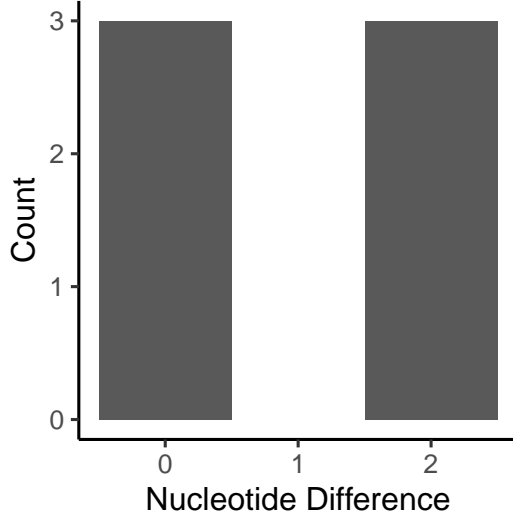
### IGKV1-NL1\*01

258 sequences assigned  
221 (85.7%) exact matches, in which:  
186 unique CDR3  
5 unique J



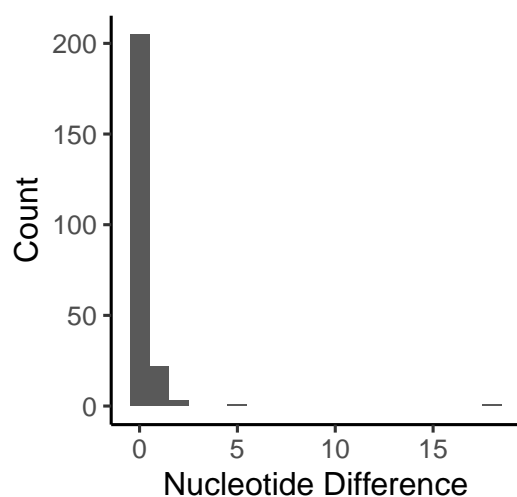
### IGKV2-18\*01

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



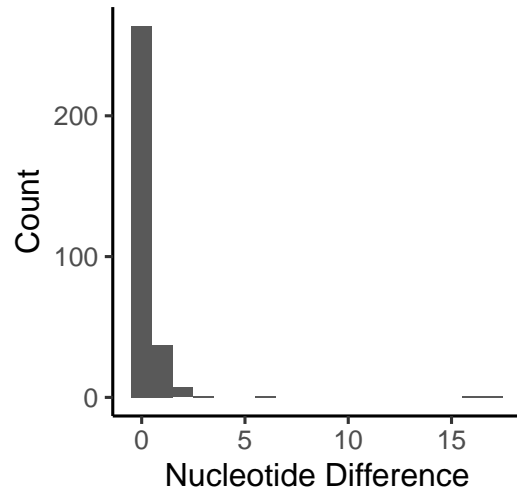
### IGKV2-30\*01

232 sequences assigned  
205 (88.4%) exact matches, in which:  
175 unique CDR3  
5 unique J



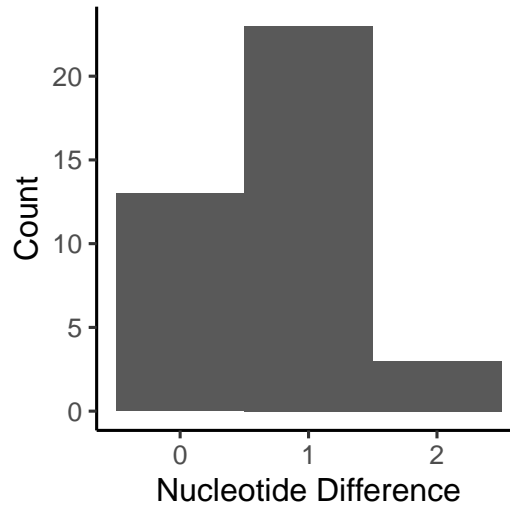
### IGKV2–30\*02

312 sequences assigned  
264 (84.6%) exact matches, in which:  
231 unique CDR3  
5 unique J



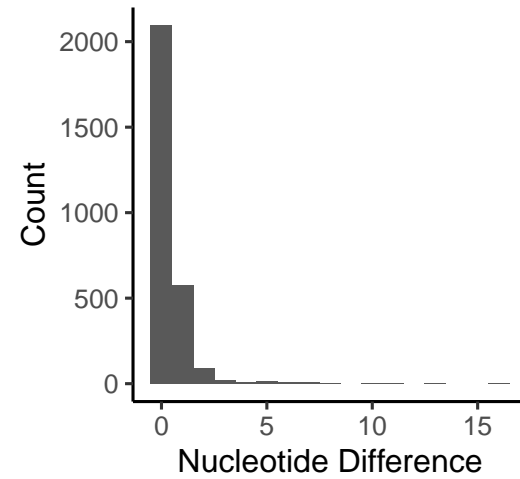
### IGKV3–7\*04

39 sequences assigned  
13 (33.3%) exact matches, in which:  
12 unique CDR3  
5 unique J



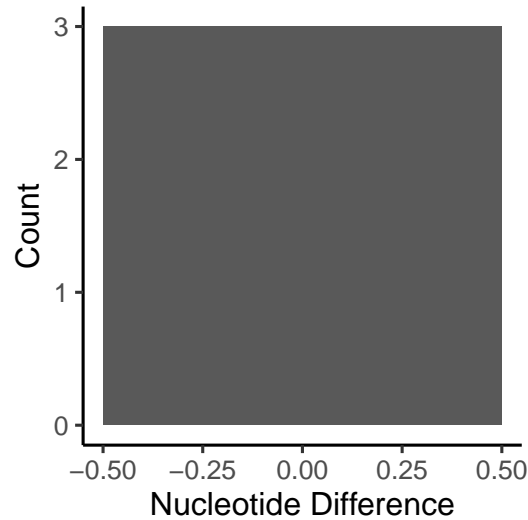
### IGKV3–20\*01

2831 sequences assigned  
2095 (74%) exact matches, in which:  
1515 unique CDR3  
5 unique J



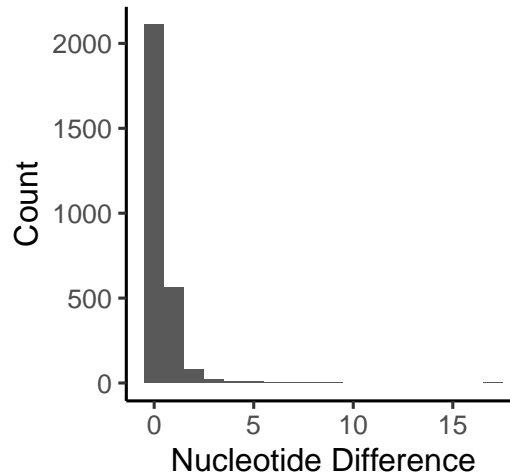
### IGKV1/OR2–108\*01

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



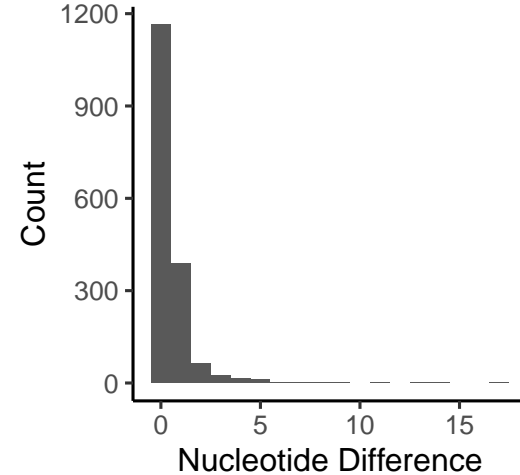
### IGKV3–11\*01

2804 sequences assigned  
2110 (75.2%) exact matches, in which:  
1491 unique CDR3  
5 unique J



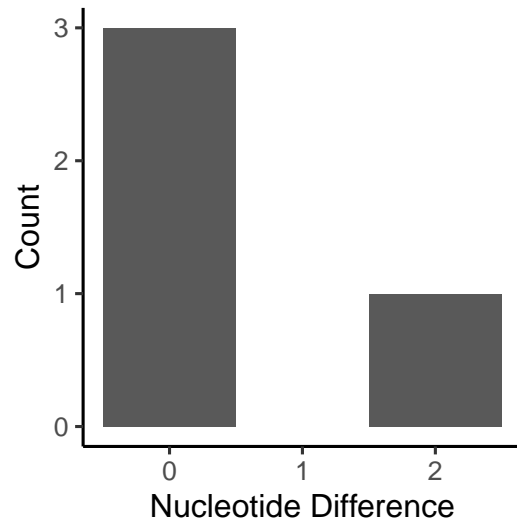
### IGKV4–1\*01

1676 sequences assigned  
1164 (69.5%) exact matches, in which:  
801 unique CDR3  
5 unique J



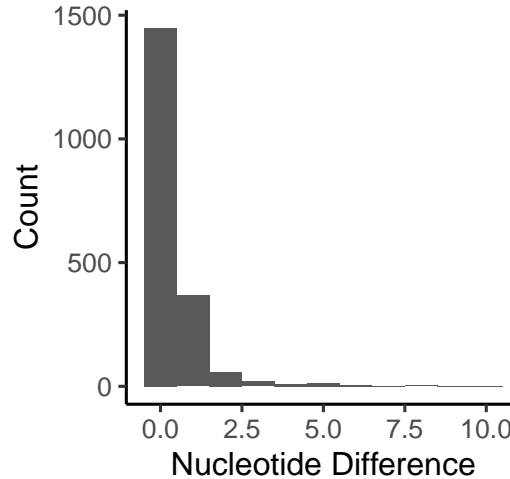
### IGKV3/OR2–268\*01

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



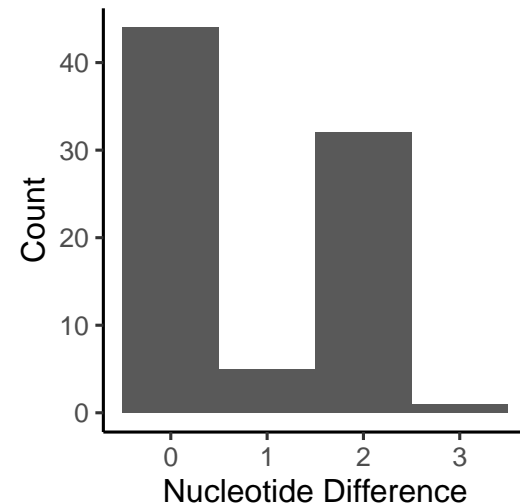
### IGKV3–15\*01

1928 sequences assigned  
1448 (75.1%) exact matches, in which:  
1073 unique CDR3  
5 unique J



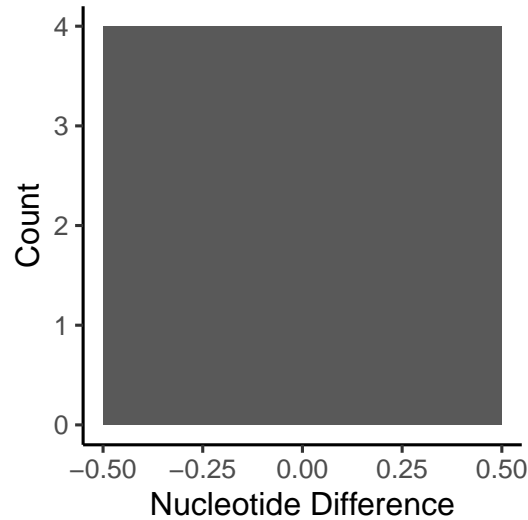
### IGKV5–2\*01

82 sequences assigned  
44 (53.7%) exact matches, in which:  
40 unique CDR3  
4 unique J



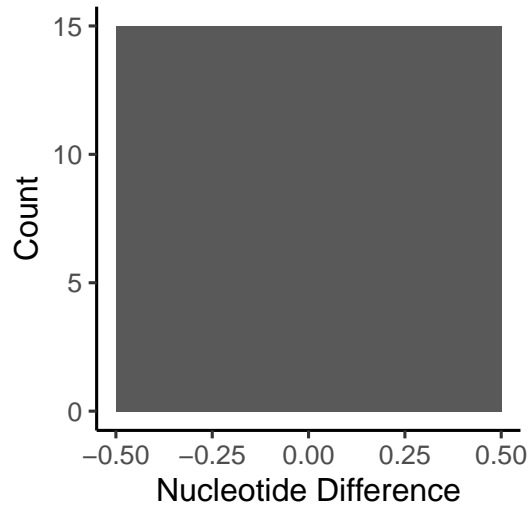
### IGKV7-3\*01

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



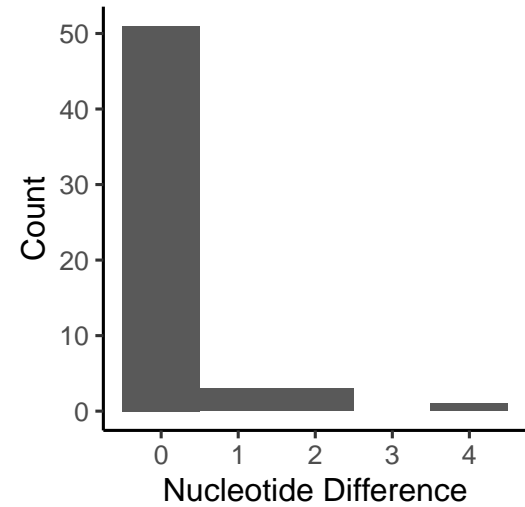
### IGKV3D-11\*01

15 sequences assigned  
15 (100%) exact matches, in which:  
15 unique CDR3  
5 unique J



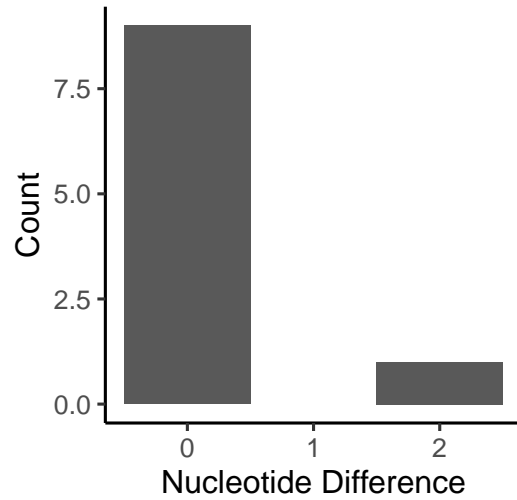
### IGKV1D-16\*01

58 sequences assigned  
51 (87.9%) exact matches, in which:  
42 unique CDR3  
5 unique J



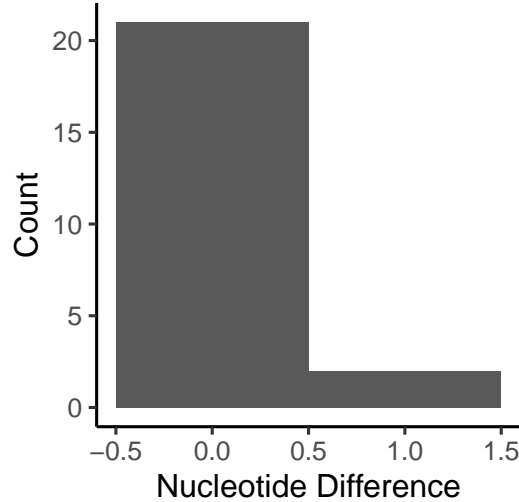
### IGKV3D-7\*01

10 sequences assigned  
9 (90%) exact matches, in which:  
9 unique CDR3  
5 unique J



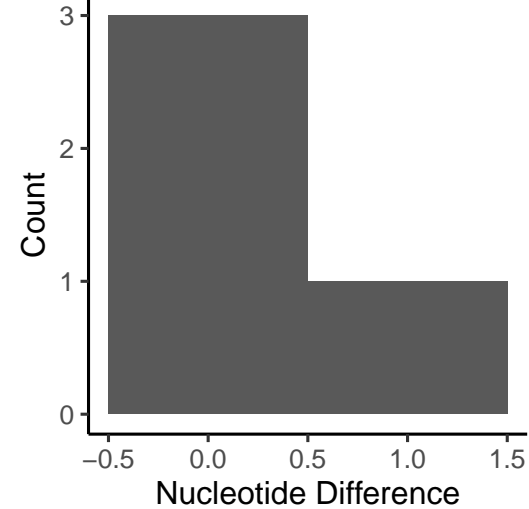
### IGKV3D-11\*02

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



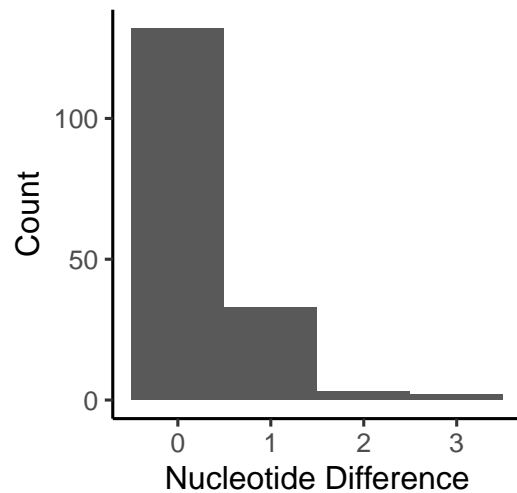
### IGKV1D-17\*01

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



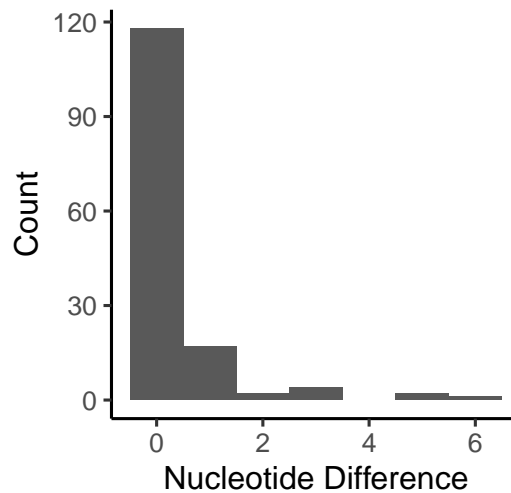
### IGKV1D-8\*01

170 sequences assigned  
132 (77.6%) exact matches, in which:  
79 unique CDR3  
5 unique J



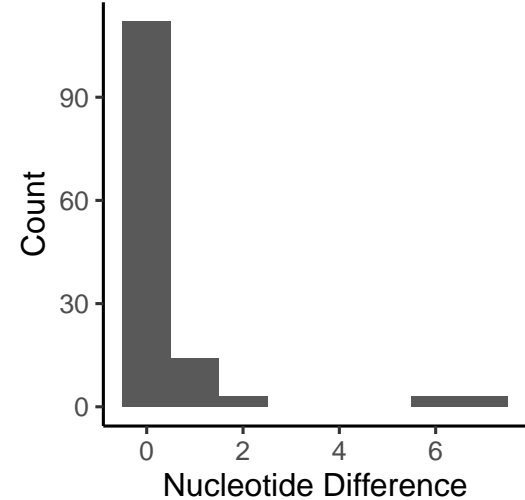
### IGKV3D-15\*01

144 sequences assigned  
118 (81.9%) exact matches, in which:  
97 unique CDR3  
5 unique J



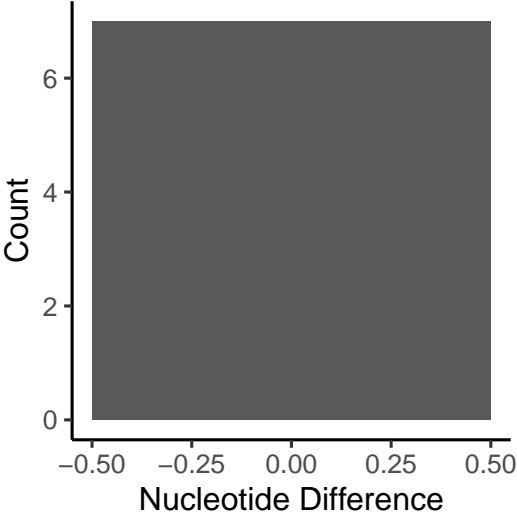
### IGKV3D-20\*01

135 sequences assigned  
112 (83%) exact matches, in which:  
95 unique CDR3  
5 unique J



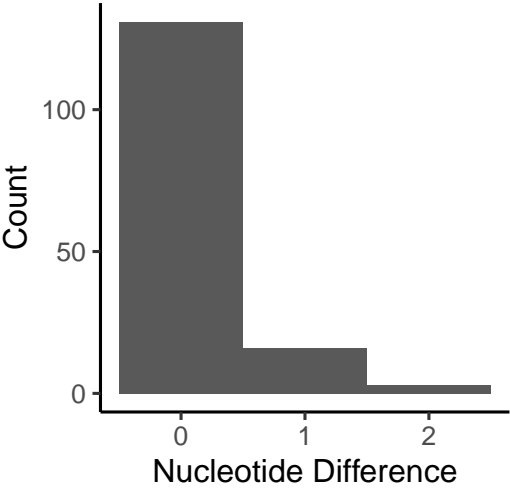
IGKV2D-24\*01

7 sequences assigned  
7 (100%) exact matches, in which:  
7 unique CDR3  
4 unique J



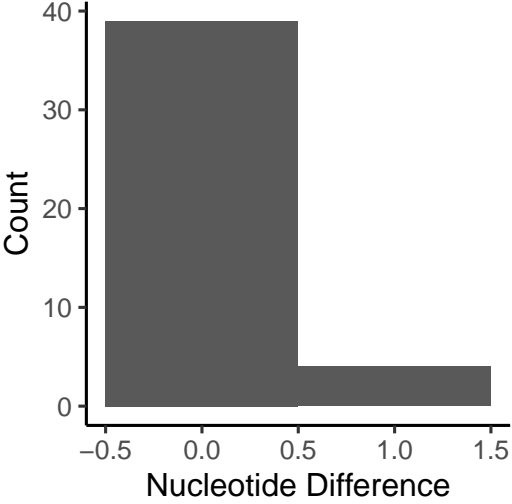
IGKV2D-29\*02

150 sequences assigned  
131 (87.3%) exact matches, in which:  
115 unique CDR3  
5 unique J



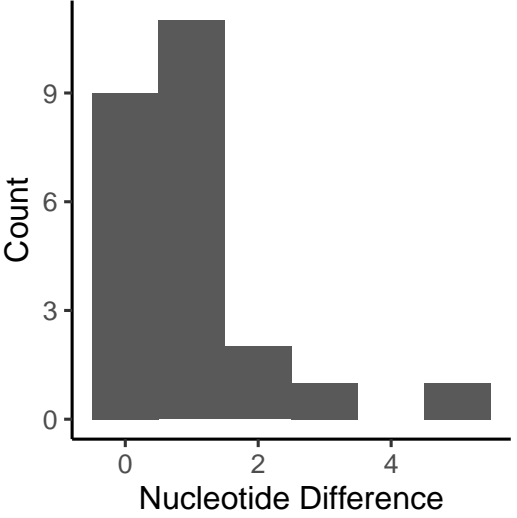
IGKV1D-43\*01

43 sequences assigned  
39 (90.7%) exact matches, in which:  
35 unique CDR3  
5 unique J



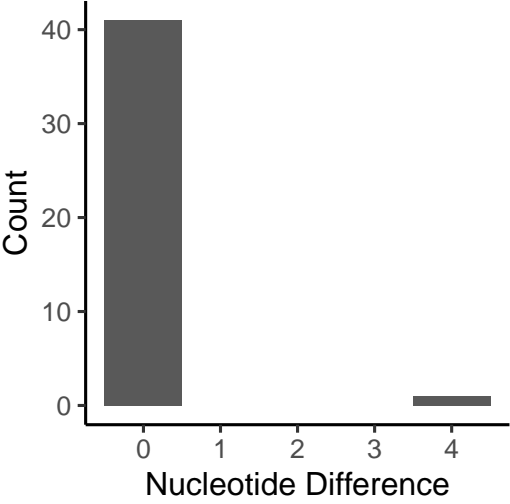
IGKV2D-26\*03

24 sequences assigned  
9 (37.5%) exact matches, in which:  
9 unique CDR3  
4 unique J



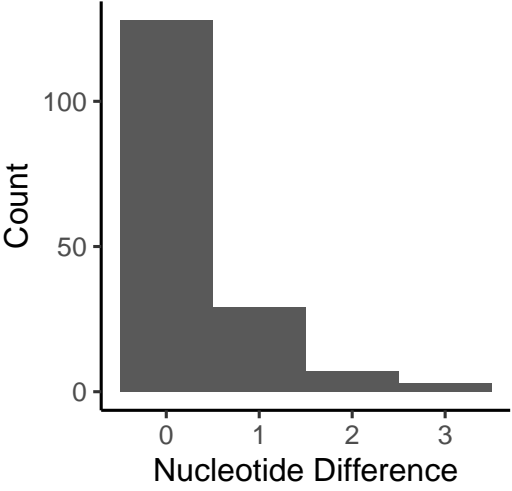
IGKV2D-30\*01

42 sequences assigned  
41 (97.6%) exact matches, in which:  
36 unique CDR3  
5 unique J



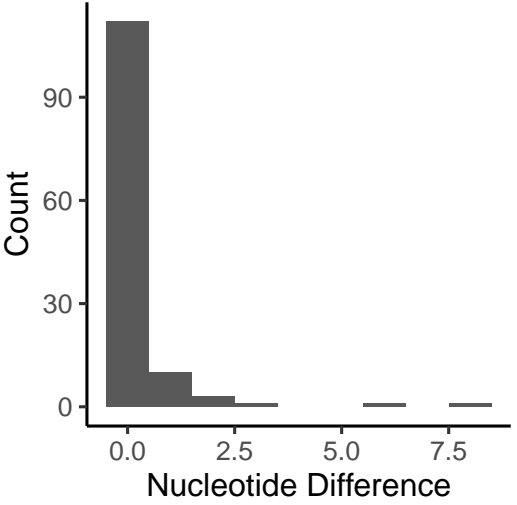
IGKV1E-12\*01

167 sequences assigned  
128 (76.6%) exact matches, in which:  
82 unique CDR3  
5 unique J



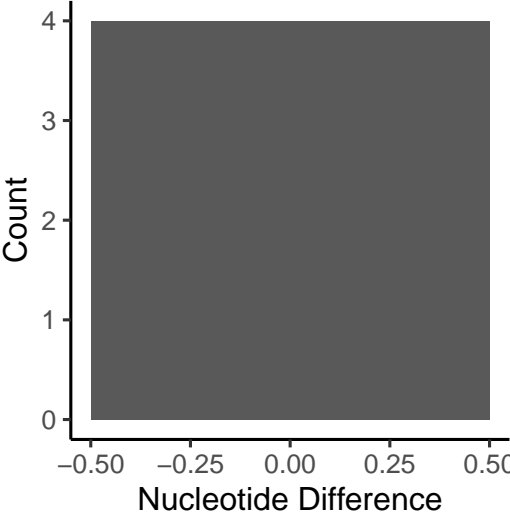
IGKV2D-29\*01

128 sequences assigned  
112 (87.5%) exact matches, in which:  
91 unique CDR3  
5 unique J



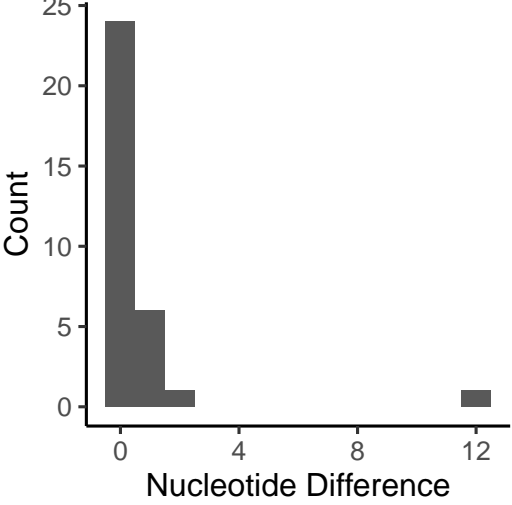
IGKV6D-41\*01

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



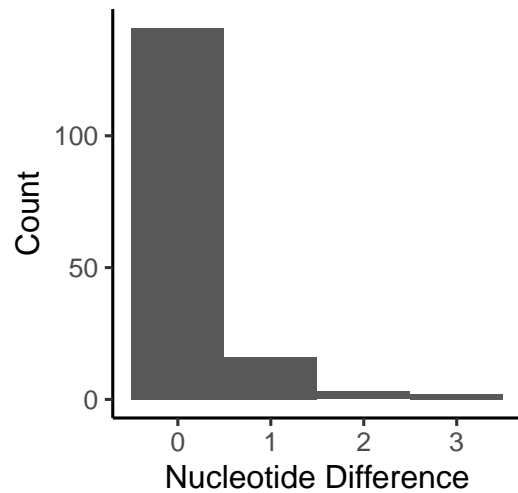
IGKV1E-12\*02

32 sequences assigned  
24 (75%) exact matches, in which:  
16 unique CDR3  
5 unique J



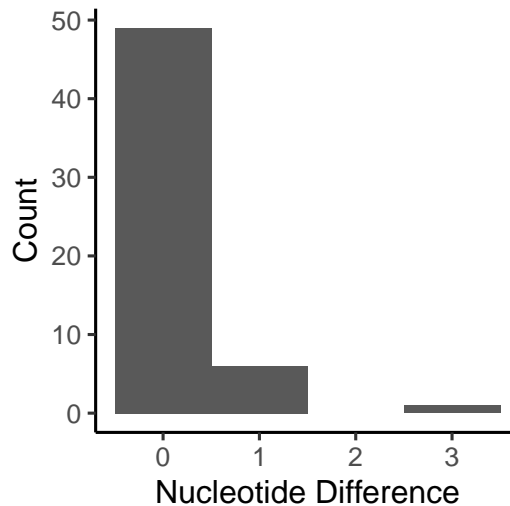
### IGKV1E-12\*03

162 sequences assigned  
141 (87%) exact matches, in which:  
100 unique CDR3  
5 unique J



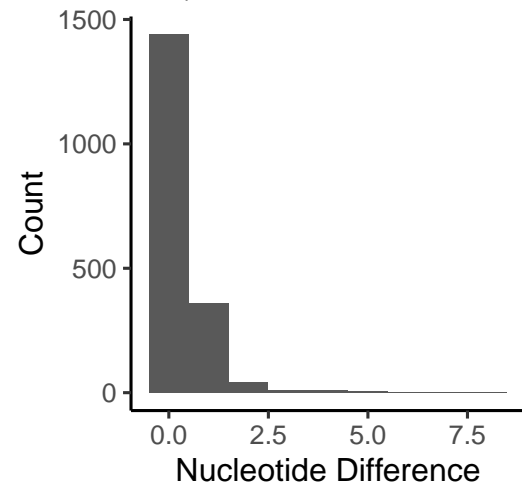
### IGKV6E-21\*01

56 sequences assigned  
49 (87.5%) exact matches, in which:  
45 unique CDR3  
5 unique J



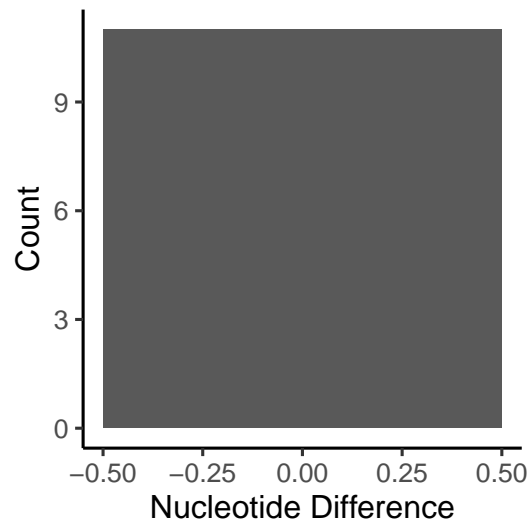
### IGKV2E-28\*01

1874 sequences assigned  
1440 (76.8%) exact matches, in which:  
1025 unique CDR3  
5 unique J



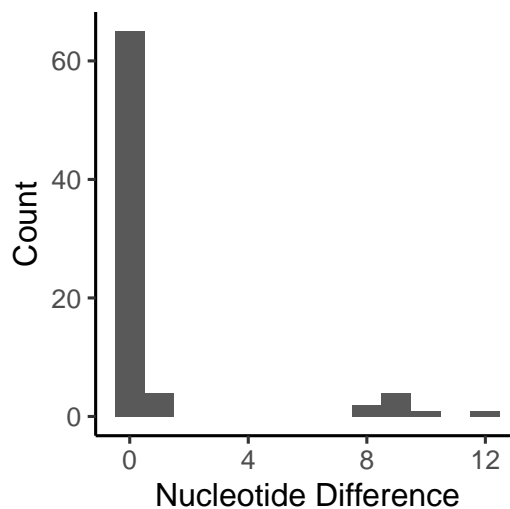
### IGKV1E-13\*02

11 sequences assigned  
11 (100%) exact matches, in which:  
11 unique CDR3  
4 unique J



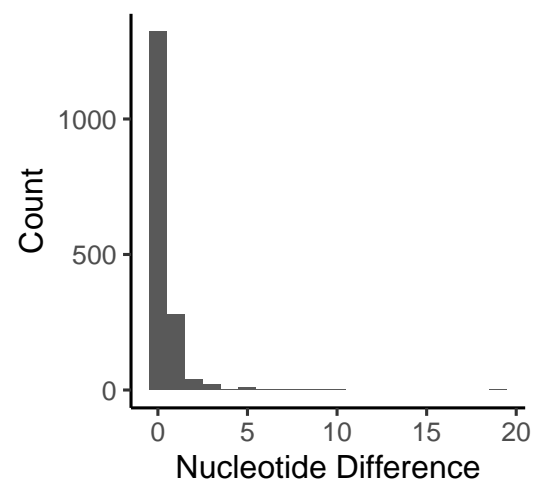
### IGKV6E-21\*02

77 sequences assigned  
65 (84.4%) exact matches, in which:  
61 unique CDR3  
4 unique J



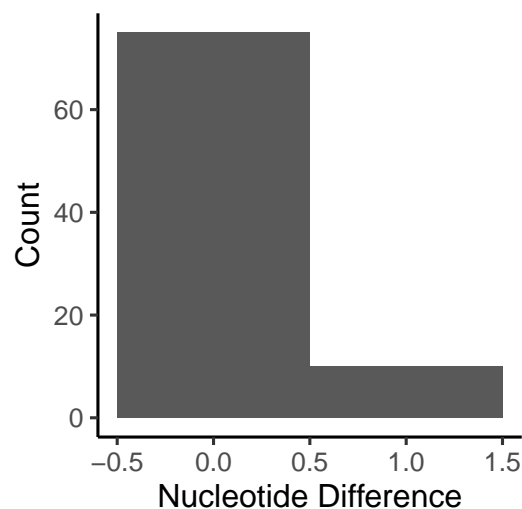
### IGKV1E-33\*01

1680 sequences assigned  
1322 (78.7%) exact matches, in which:  
965 unique CDR3  
5 unique J



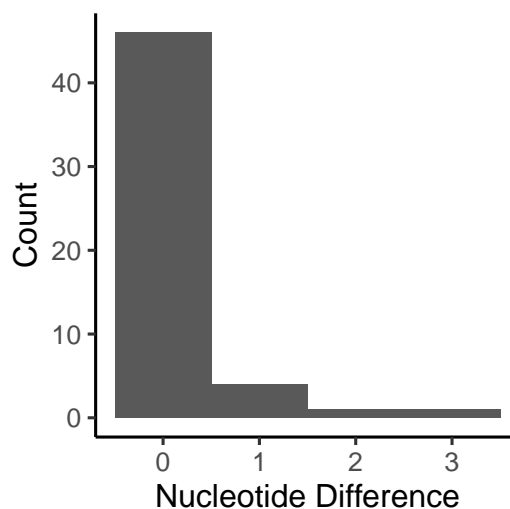
### IGKV1E-13\*03

85 sequences assigned  
75 (88.2%) exact matches, in which:  
60 unique CDR3  
5 unique J



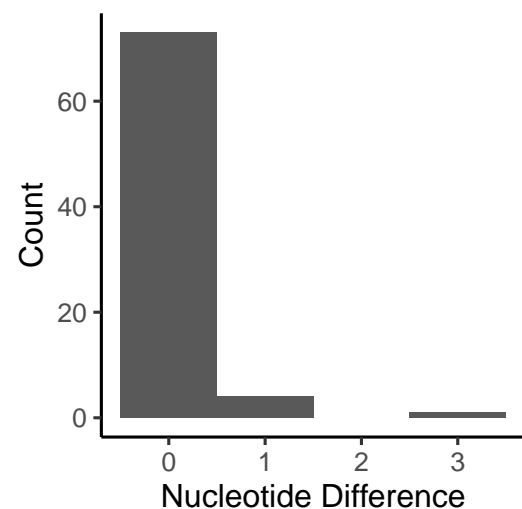
### IGKV6E-21\*03

52 sequences assigned  
46 (88.5%) exact matches, in which:  
38 unique CDR3  
5 unique J



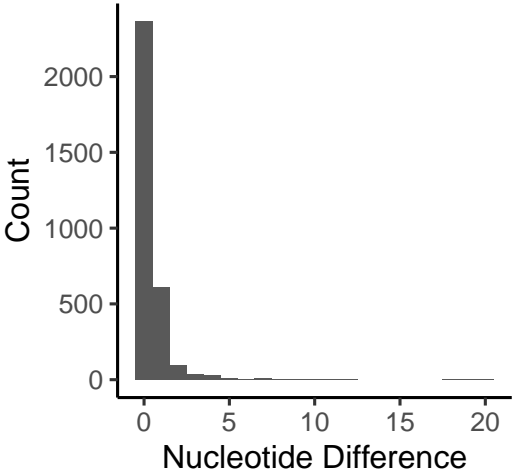
### IGKV1E-37\*01

78 sequences assigned  
73 (93.6%) exact matches, in which:  
62 unique CDR3  
5 unique J



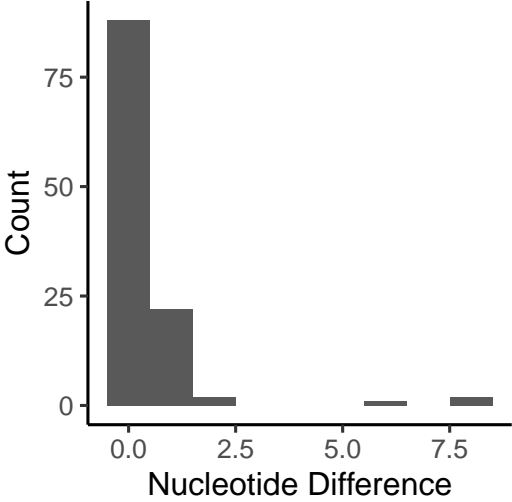
# IGKV1E-39\*01

3182 sequences assigned  
2364 (74.3%) exact matches, in which:  
1656 unique CDR3  
5 unique J



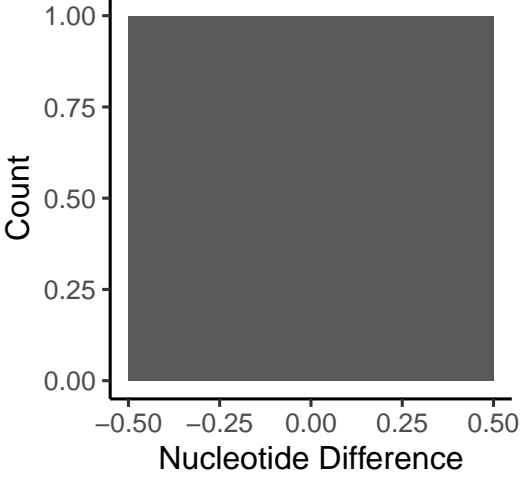
# IGKV2E-40\*01

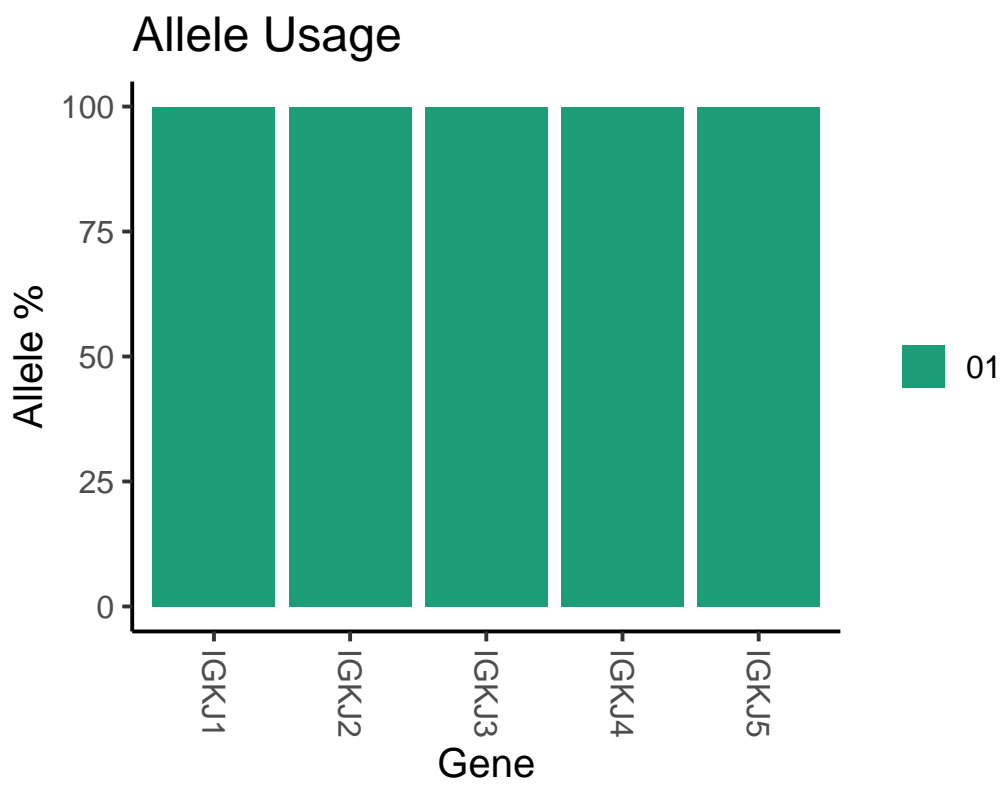
115 sequences assigned  
88 (76.5%) exact matches, in which:  
64 unique CDR3  
5 unique J



# IGKV1/OR-2\*01

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







Warning – no inferred sequences found.