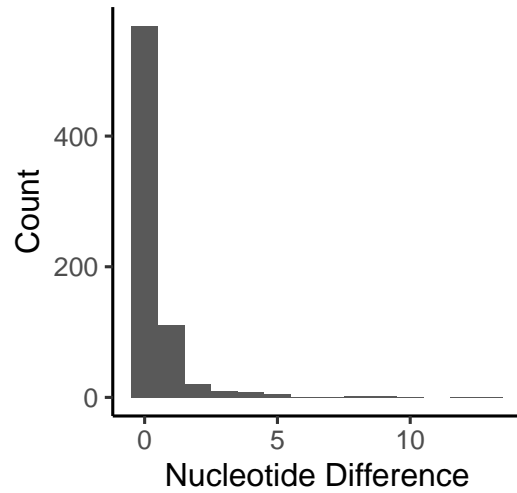


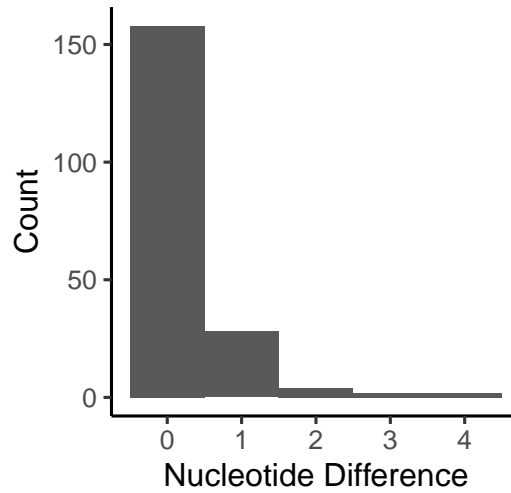
### IGKV1-5\*03

733 sequences assigned  
569 (77.6%) exact matches, in which:  
486 unique CDR3  
5 unique J



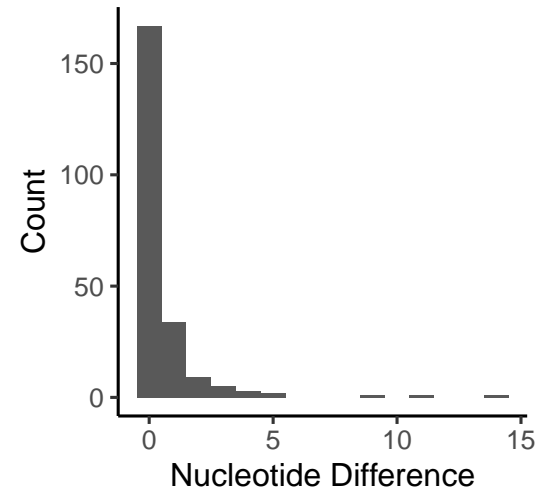
### IGKV1-8\*01

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



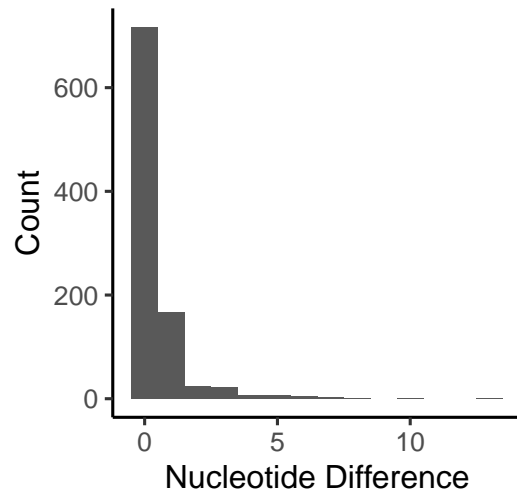
### IGKV1-16\*02

223 sequences assigned  
167 (74.9%) exact matches, in which:  
114 unique CDR3  
5 unique J



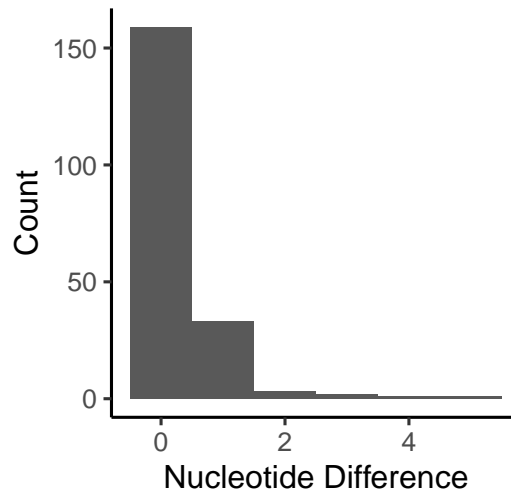
### IGKV1-5\*03\_G171A

954 sequences assigned  
717 (75.2%) exact matches, in which:  
584 unique CDR3  
5 unique J



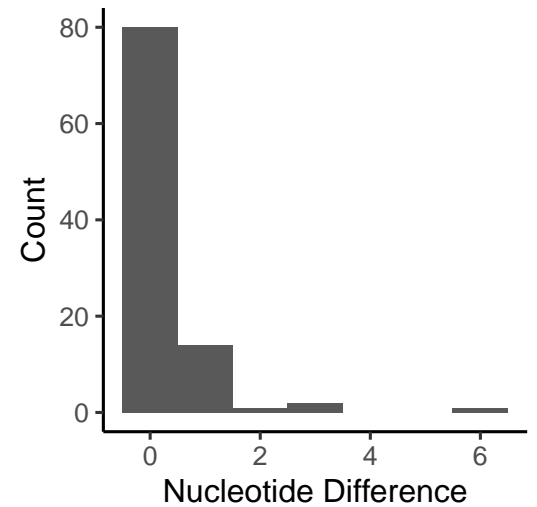
### IGKV1-8\*01\_G12A\_T31C

199 sequences assigned  
159 (79.9%) exact matches, in which:  
139 unique CDR3  
5 unique J



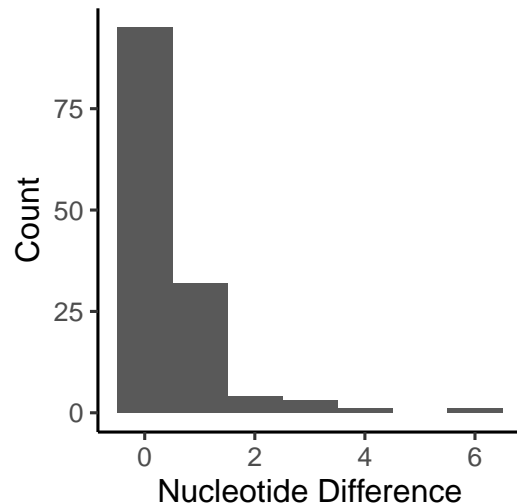
### IGKV1-17\*01

98 sequences assigned  
80 (81.6%) exact matches, in which:  
69 unique CDR3  
5 unique J



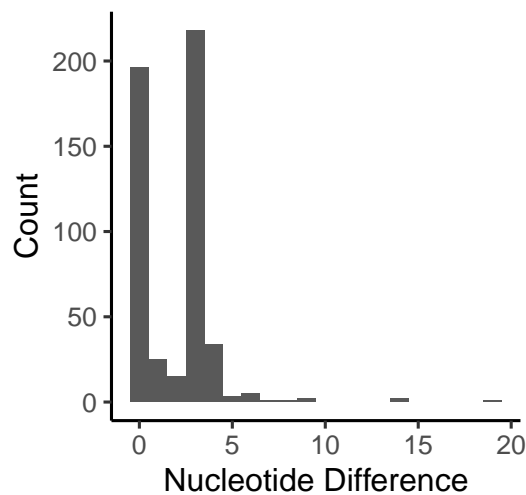
### IGKV1-6\*01

136 sequences assigned  
95 (69.9%) exact matches, in which:  
64 unique CDR3  
5 unique J



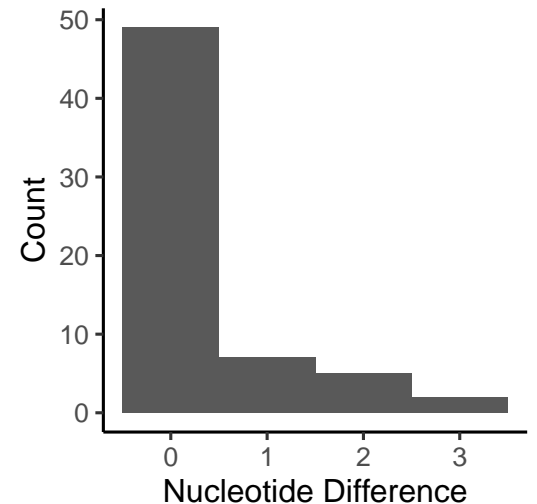
### IGKV1-9\*01

503 sequences assigned  
196 (39%) exact matches, in which:  
164 unique CDR3  
5 unique J



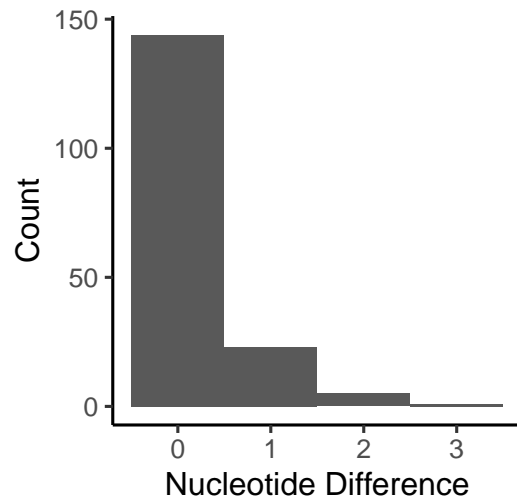
### IGKV1-17\*03

63 sequences assigned  
49 (77.8%) exact matches, in which:  
46 unique CDR3  
5 unique J



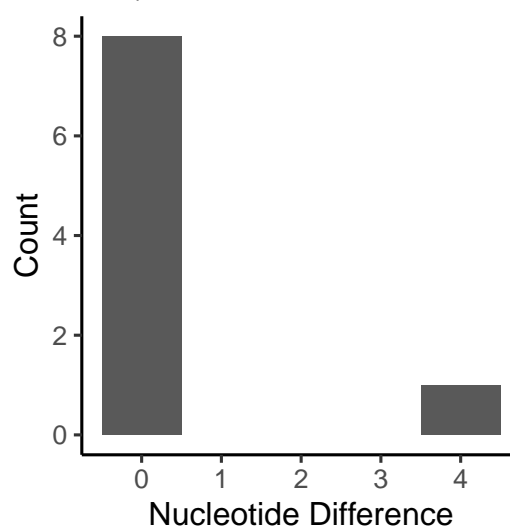
### IGKV1-27\*01

174 sequences assigned  
144 (82.8%) exact matches, in which:  
129 unique CDR3  
5 unique J



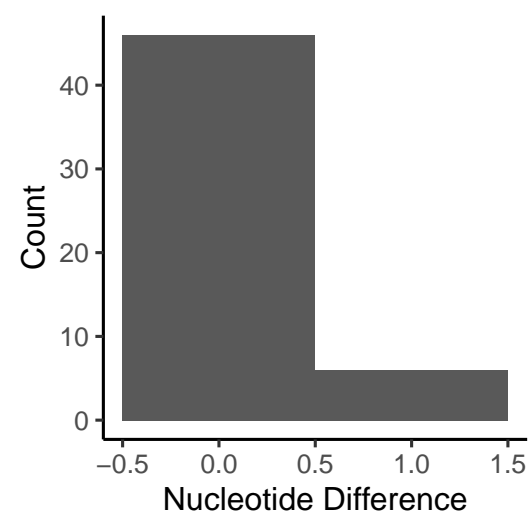
### IGKV2/OR22-4\*01

9 sequences assigned  
8 (88.9%) exact matches, in which:  
4 unique CDR3  
2 unique J



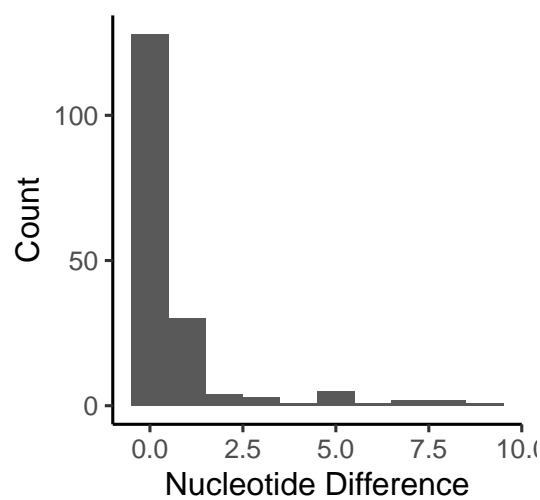
### IGKV2-24\*01

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



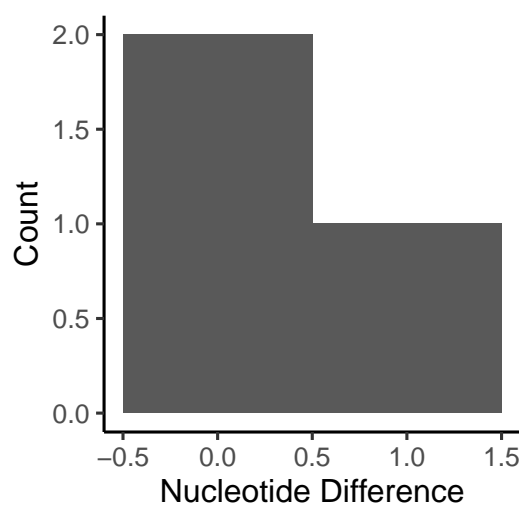
### IGKV1-27\*01\_T231C

177 sequences assigned  
128 (72.3%) exact matches, in which:  
115 unique CDR3  
5 unique J



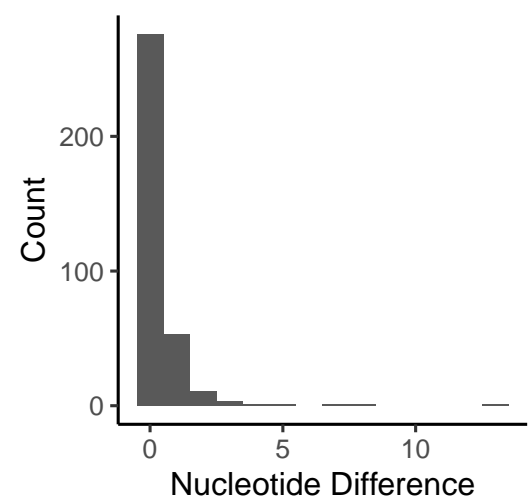
### IGKV2-4\*01

3 sequences assigned  
2 (66.7%) exact matches, in which:  
2 unique CDR3  
1 unique J



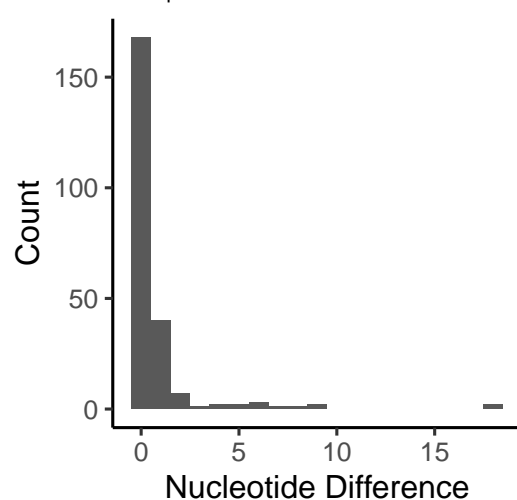
### IGKV2-29\*02

348 sequences assigned  
276 (79.3%) exact matches, in which:  
233 unique CDR3  
5 unique J



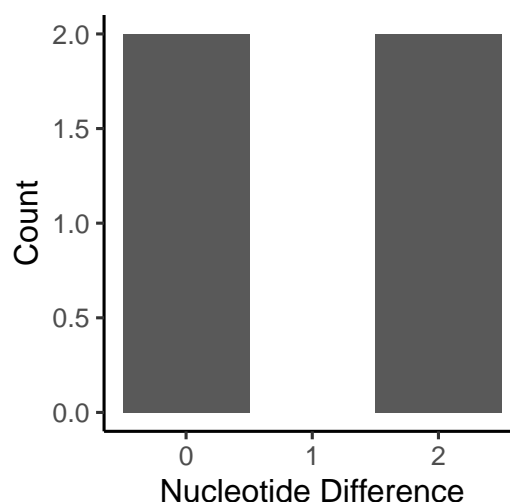
### IGKV1-NL1\*01

229 sequences assigned  
168 (73.4%) exact matches, in which:  
149 unique CDR3  
5 unique J



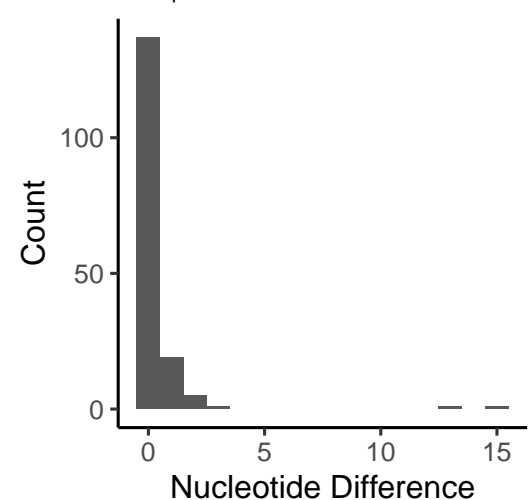
### IGKV2-18\*01

4 sequences assigned  
2 (50%) exact matches, in which:  
2 unique CDR3  
2 unique J



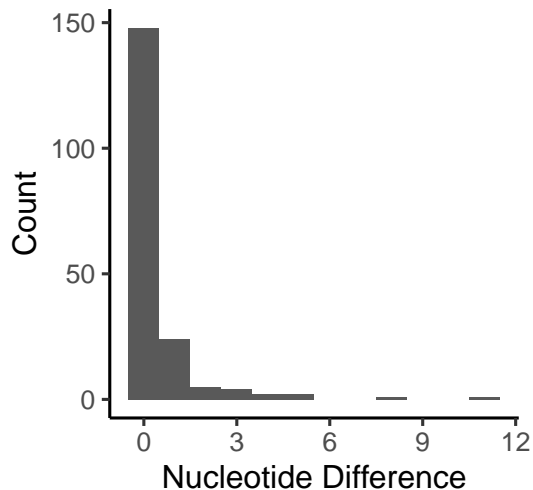
### IGKV2-30\*01

164 sequences assigned  
137 (83.5%) exact matches, in which:  
128 unique CDR3  
5 unique J



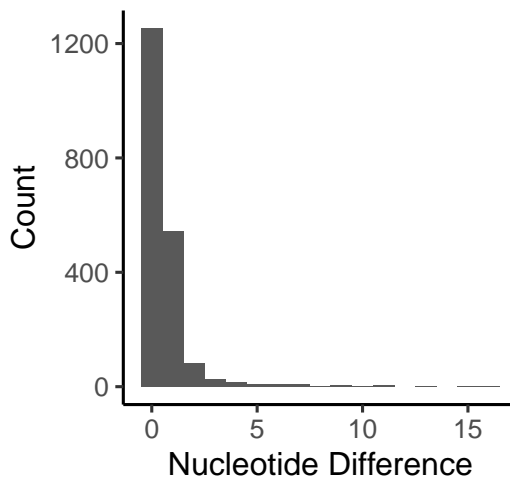
### IGKV2–30\*02

187 sequences assigned  
148 (79.1%) exact matches, in which:  
137 unique CDR3  
5 unique J



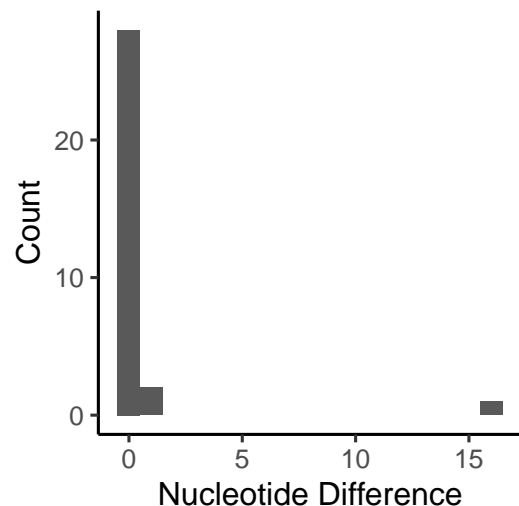
### IGKV3–15\*01

1969 sequences assigned  
1253 (63.6%) exact matches, in which:  
892 unique CDR3  
5 unique J



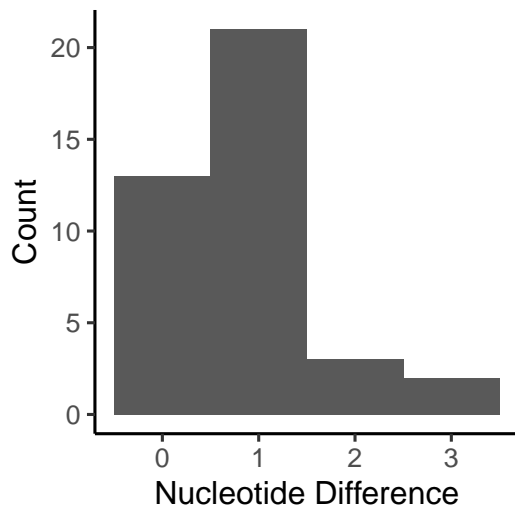
### IGKV5–2\*01

31 sequences assigned  
28 (90.3%) exact matches, in which:  
25 unique CDR3  
4 unique J



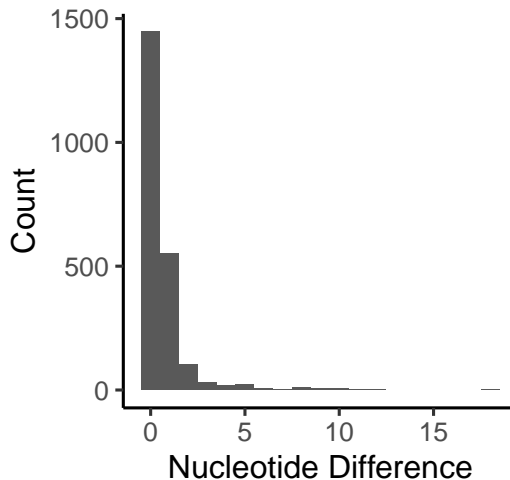
### IGKV3–7\*04

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



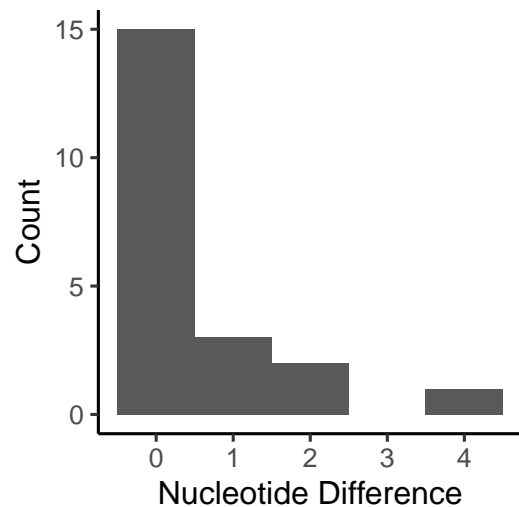
### IGKV3–20\*01

2201 sequences assigned  
1447 (65.7%) exact matches, in which:  
1101 unique CDR3  
5 unique J



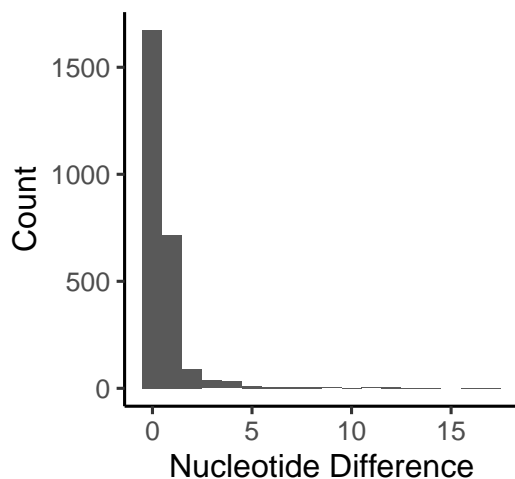
### IGKV5–2\*01\_T108G\_C214

21 sequences assigned  
15 (71.4%) exact matches, in which:  
15 unique CDR3  
4 unique J



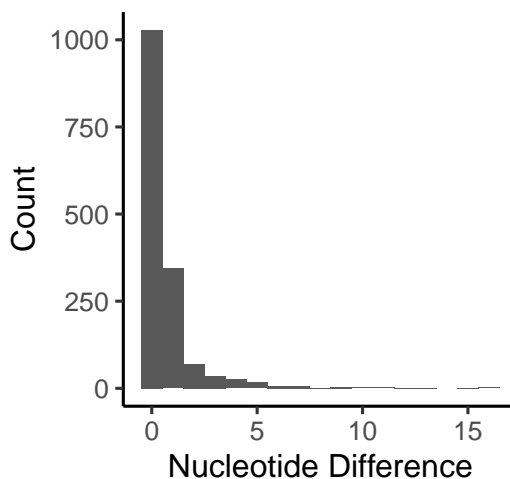
### IGKV3–11\*01

2595 sequences assigned  
1674 (64.5%) exact matches, in which:  
1238 unique CDR3  
5 unique J



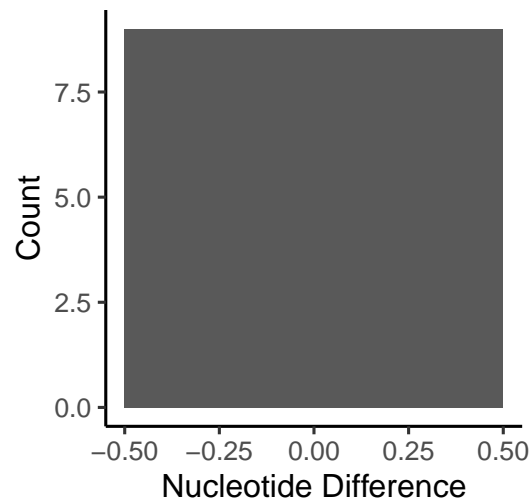
### IGKV4–1\*01

1544 sequences assigned  
1028 (66.6%) exact matches, in which:  
698 unique CDR3  
5 unique J



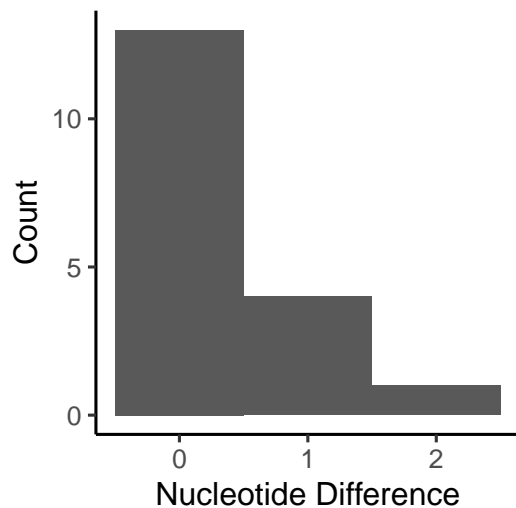
### IGKV7–3\*01

9 sequences assigned  
9 (100%) exact matches, in which:  
9 unique CDR3  
4 unique J



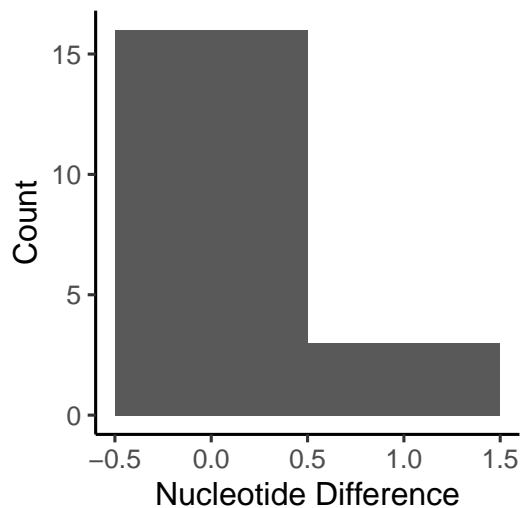
### IGKV3D-7\*01

18 sequences assigned  
13 (72.2%) exact matches, in which:  
13 unique CDR3  
3 unique J



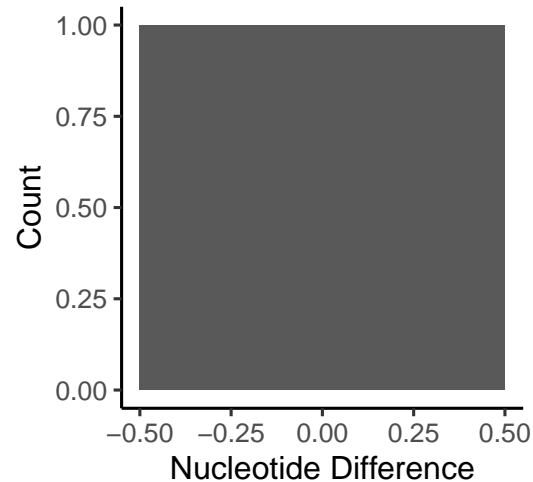
### IGKV3D-11\*02

19 sequences assigned  
16 (84.2%) exact matches, in which:  
15 unique CDR3  
4 unique J



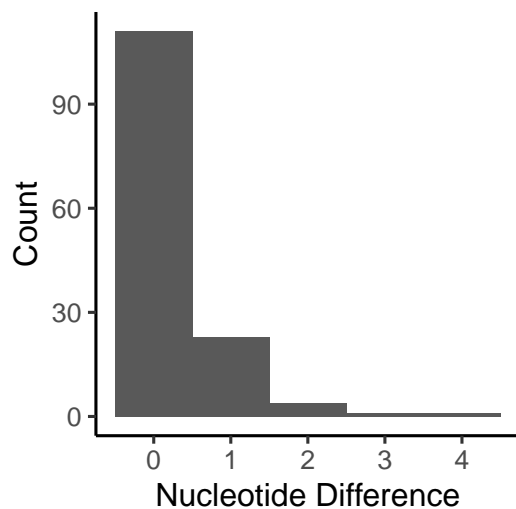
### IGKV1D-17\*01

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



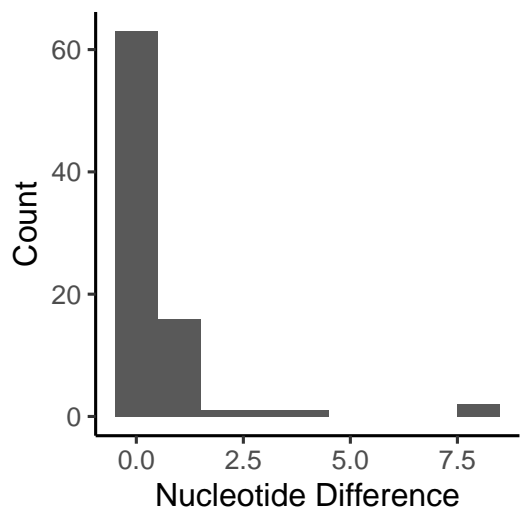
### IGKV1D-8\*01

140 sequences assigned  
111 (79.3%) exact matches, in which:  
78 unique CDR3  
5 unique J



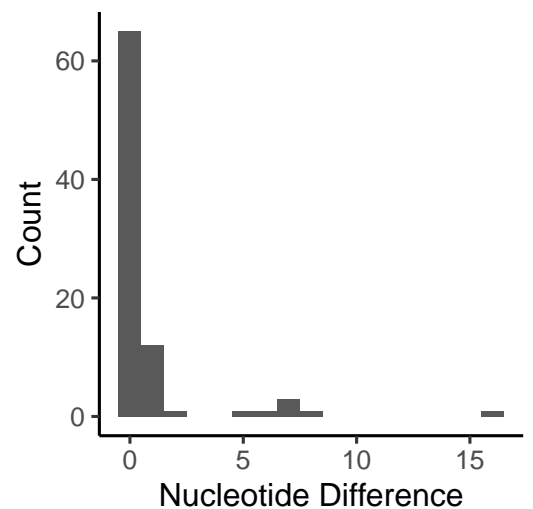
### IGKV3D-15\*01

85 sequences assigned  
63 (74.1%) exact matches, in which:  
58 unique CDR3  
5 unique J



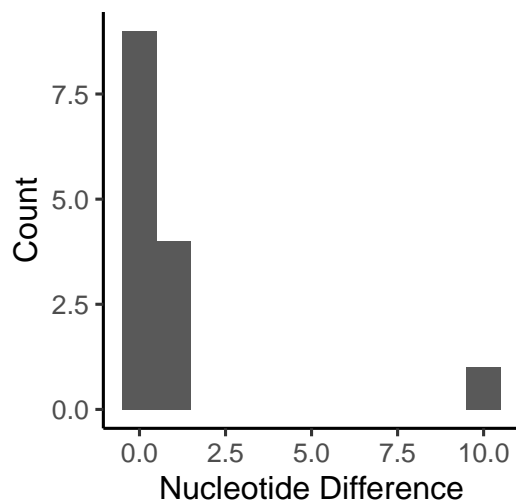
### IGKV3D-20\*01

85 sequences assigned  
65 (76.5%) exact matches, in which:  
58 unique CDR3  
5 unique J



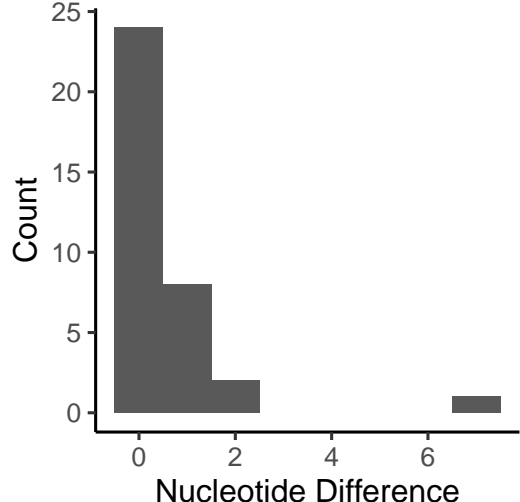
### IGKV3D-11\*01

14 sequences assigned  
9 (64.3%) exact matches, in which:  
9 unique CDR3  
4 unique J



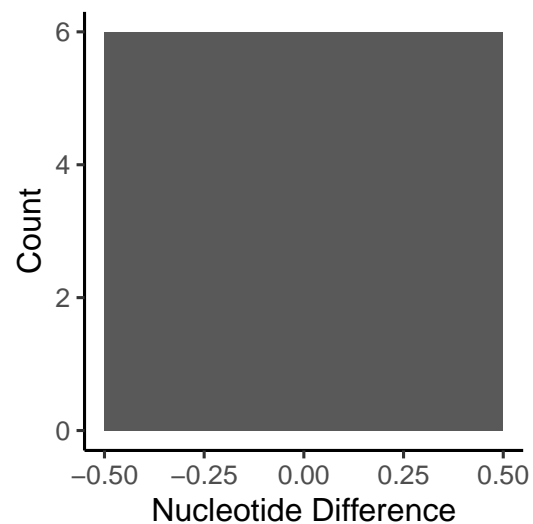
### IGKV1D-16\*01

35 sequences assigned  
24 (68.6%) exact matches, in which:  
24 unique CDR3  
5 unique J



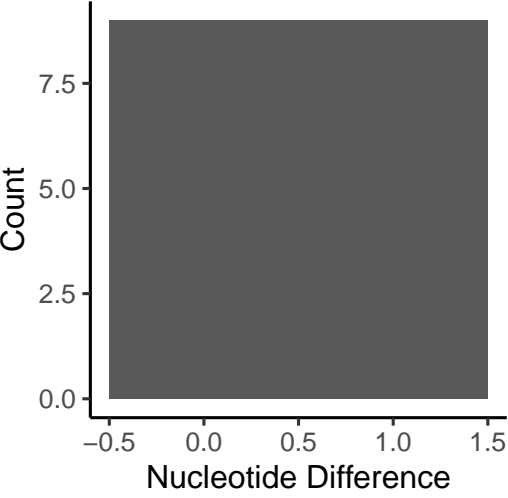
### IGKV2D-24\*01

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



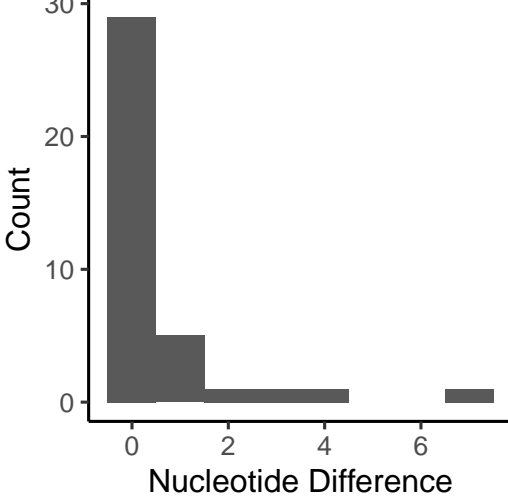
IGKV2D-26\*03

18 sequences assigned  
9 (50%) exact matches, in which:  
9 unique CDR3  
3 unique J



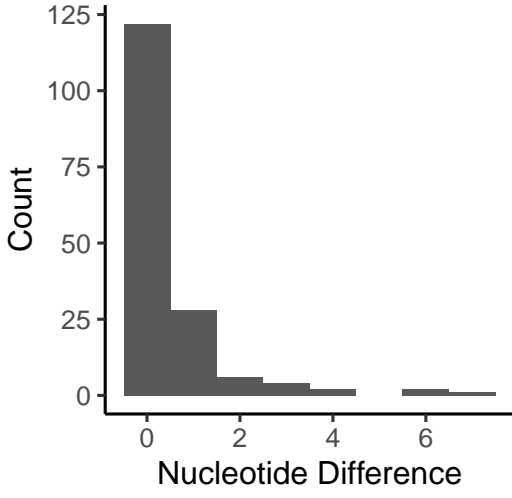
IGKV2D-30\*01

38 sequences assigned  
29 (76.3%) exact matches, in which:  
27 unique CDR3  
5 unique J



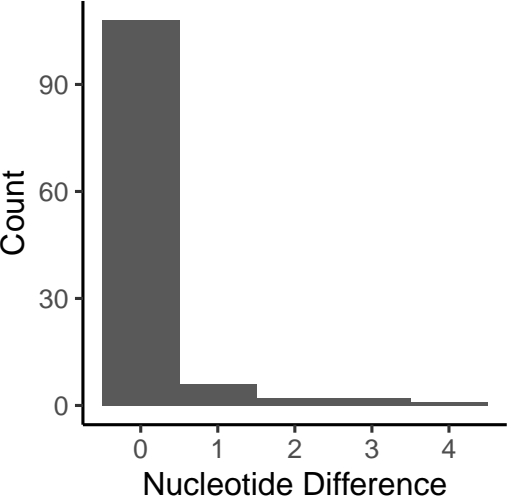
IGKV1E-12\*01

165 sequences assigned  
122 (73.9%) exact matches, in which:  
79 unique CDR3  
5 unique J



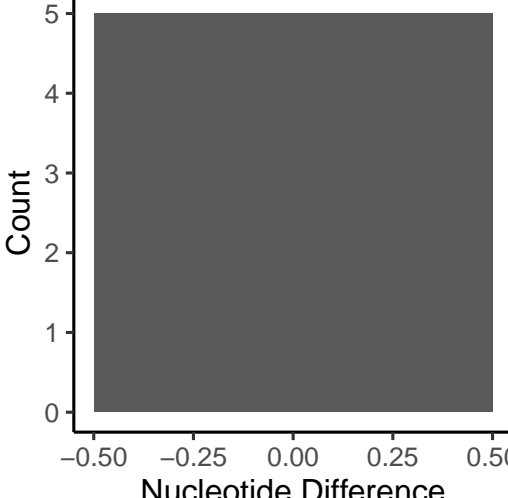
IGKV2D-29\*01

119 sequences assigned  
108 (90.8%) exact matches, in which:  
97 unique CDR3  
5 unique J



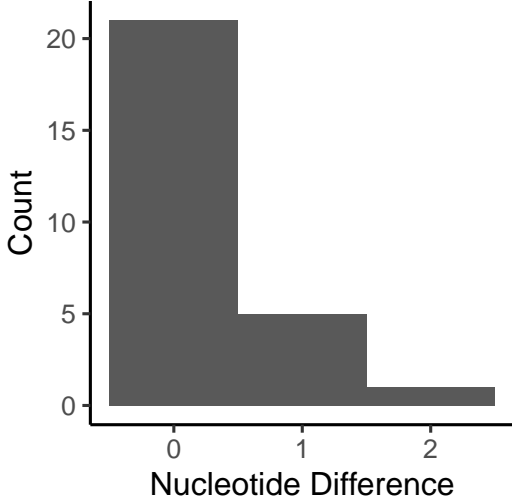
IGKV6D-41\*01

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



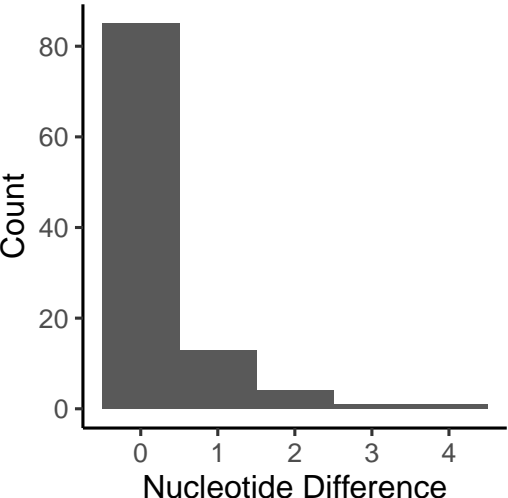
IGKV1E-12\*02

27 sequences assigned  
21 (77.8%) exact matches, in which:  
15 unique CDR3  
5 unique J



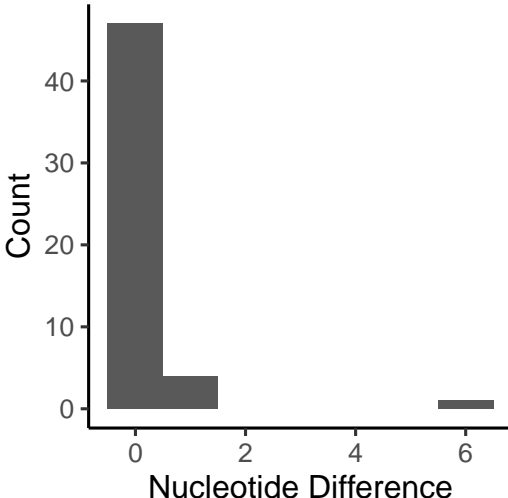
IGKV2D-29\*02

104 sequences assigned  
85 (81.7%) exact matches, in which:  
75 unique CDR3  
5 unique J



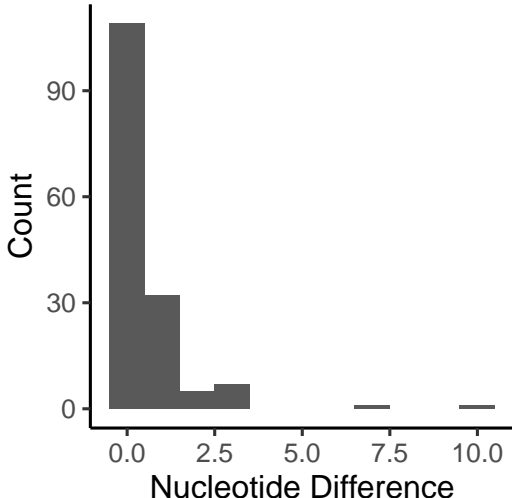
IGKV1D-43\*01

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



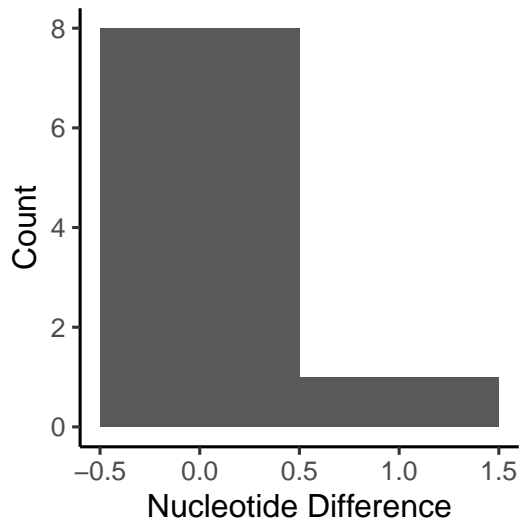
IGKV1E-12\*03

155 sequences assigned  
109 (70.3%) exact matches, in which:  
82 unique CDR3  
5 unique J



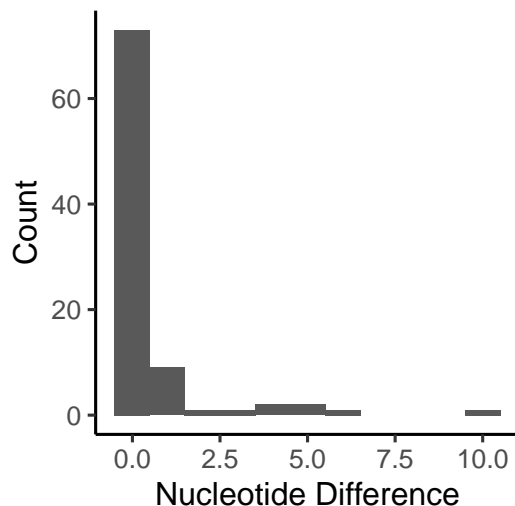
### IGKV1E-13\*02

9 sequences assigned  
8 (88.9%) exact matches, in which:  
8 unique CDR3  
3 unique J



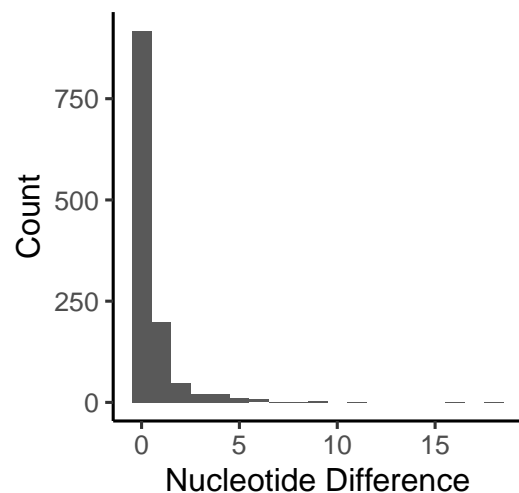
### IGKV6E-21\*02

90 sequences assigned  
73 (81.1%) exact matches, in which:  
61 unique CDR3  
5 unique J



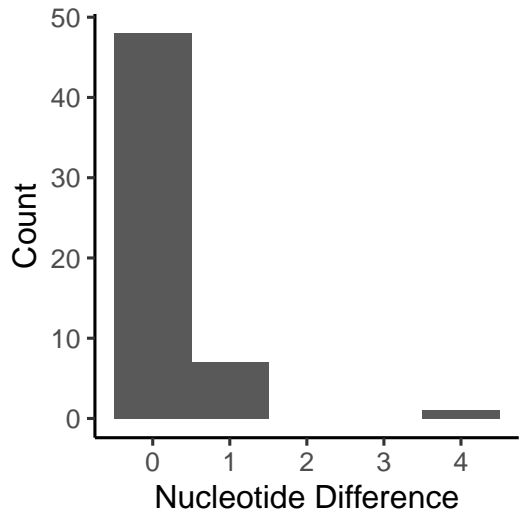
### IGKV1E-33\*01

1235 sequences assigned  
918 (74.3%) exact matches, in which:  
662 unique CDR3  
5 unique J



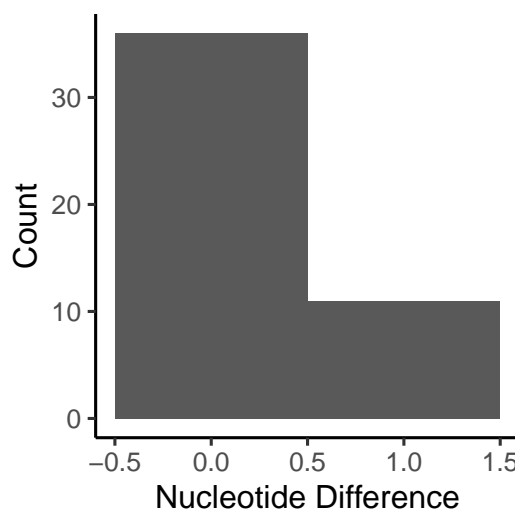
### IGKV1E-13\*03

56 sequences assigned  
48 (85.7%) exact matches, in which:  
41 unique CDR3  
5 unique J



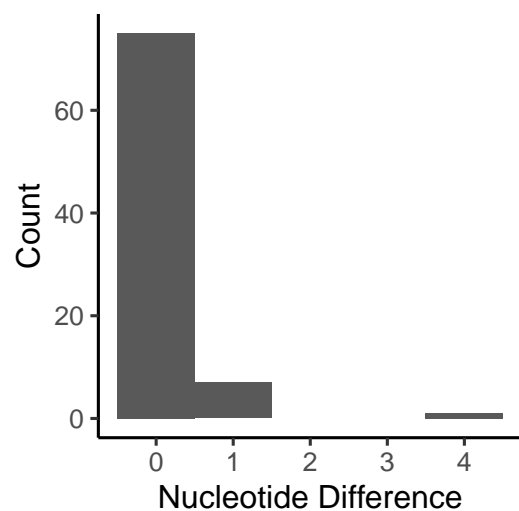
### IGKV6E-21\*03

47 sequences assigned  
36 (76.6%) exact matches, in which:  
29 unique CDR3  
5 unique J



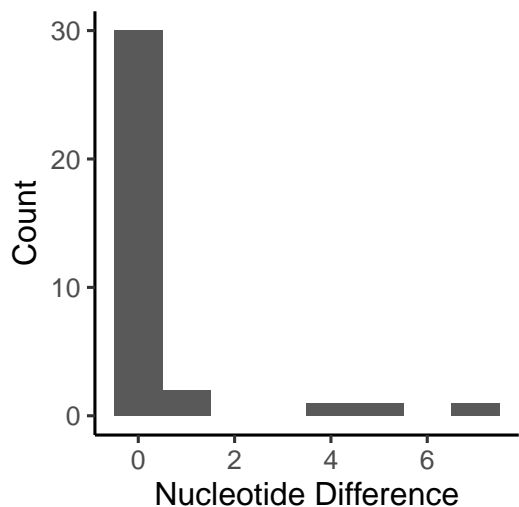
### IGKV1E-37\*01

83 sequences assigned  
75 (90.4%) exact matches, in which:  
69 unique CDR3  
5 unique J



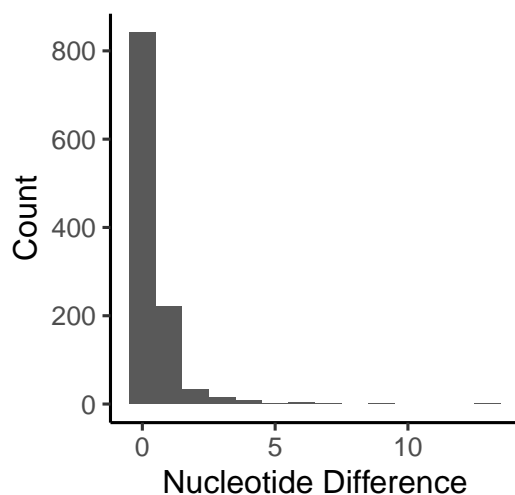
### IGKV6E-21\*01

35 sequences assigned  
30 (85.7%) exact matches, in which:  
25 unique CDR3  
5 unique J



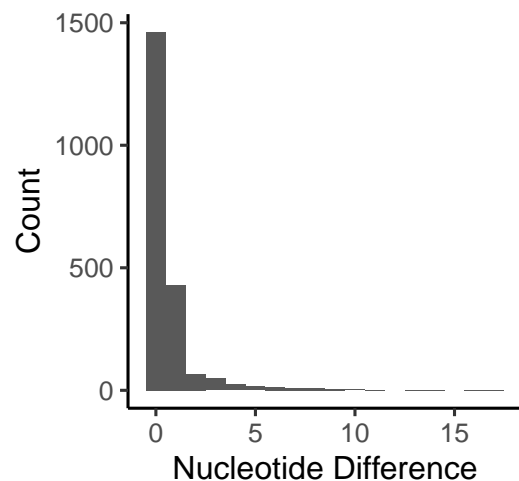
### IGKV2E-28\*01

1130 sequences assigned  
842 (74.5%) exact matches, in which:  
607 unique CDR3  
5 unique J



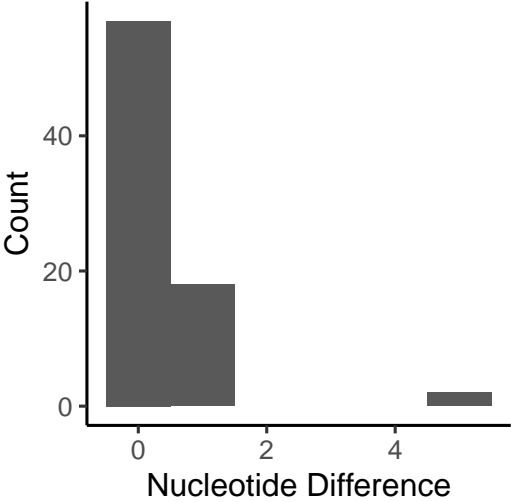
### IGKV1E-39\*01

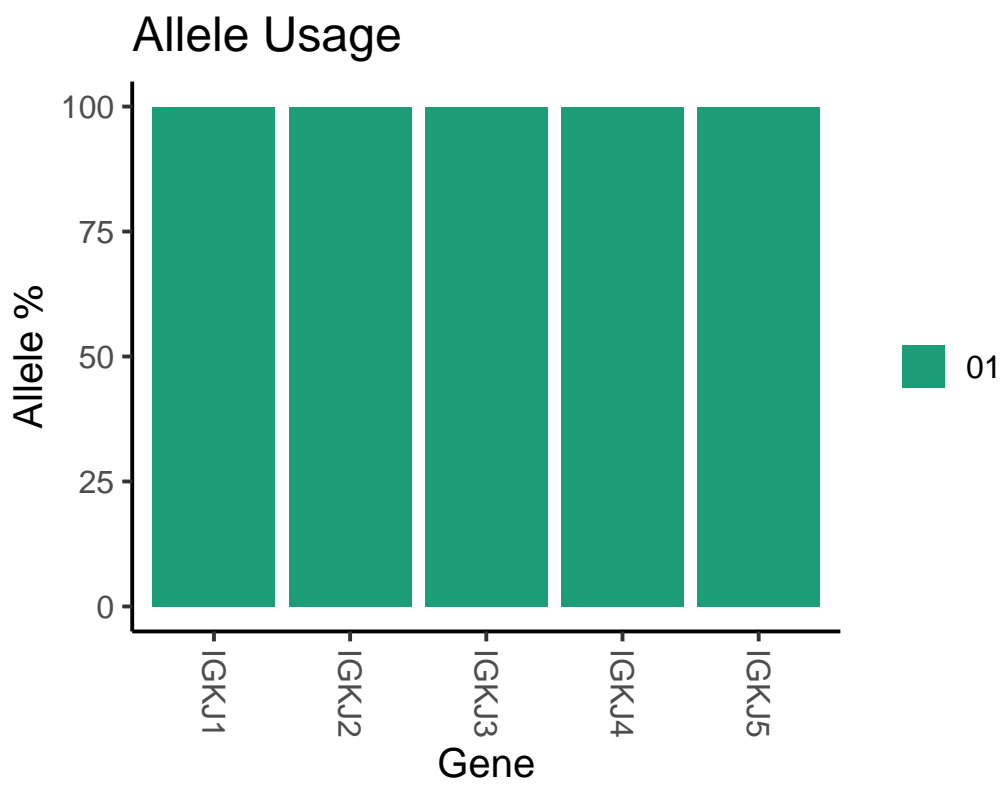
2096 sequences assigned  
1462 (69.8%) exact matches, in which:  
1039 unique CDR3  
5 unique J



# IGKV2E-40\*01

77 sequences assigned  
57 (74%) exact matches, in which:  
51 unique CDR3  
5 unique J







Warning – no inferred sequences found.