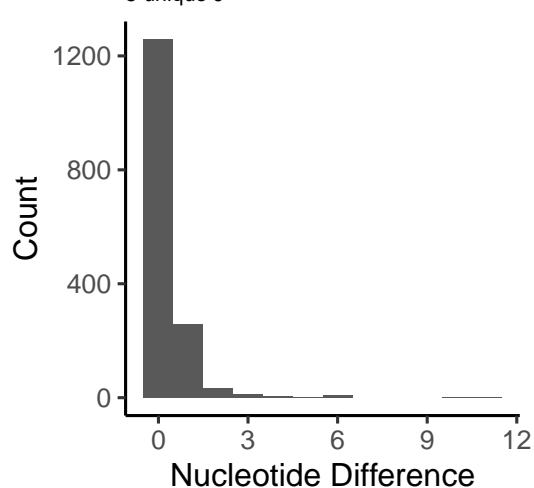


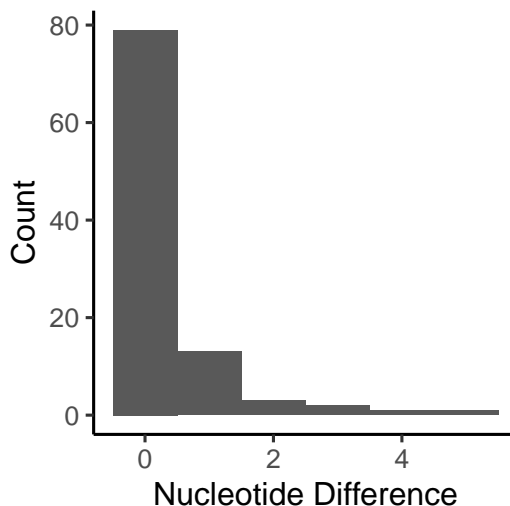
### IGKV1-5\*01

1583 sequences assigned  
1258 (79.5%) exact matches, in which:  
963 unique CDR3  
5 unique J



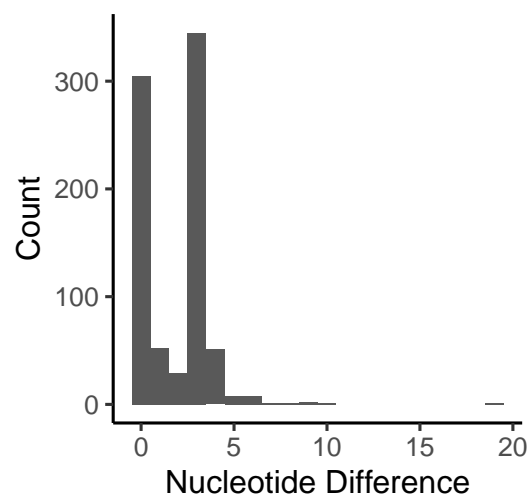
### IGKV1-6\*01\_G9A

99 sequences assigned  
79 (79.8%) exact matches, in which:  
63 unique CDR3  
5 unique J



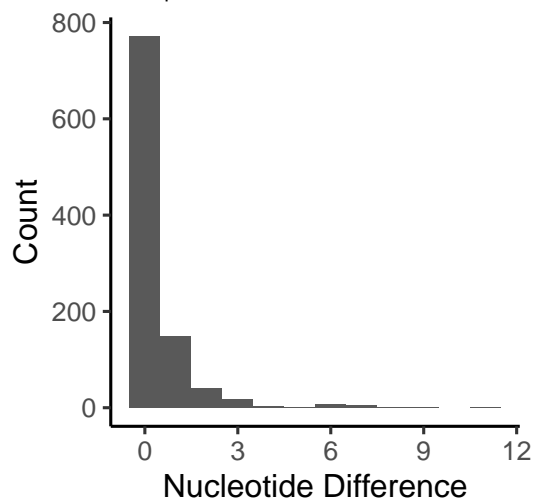
### IGKV1-9\*01

805 sequences assigned  
305 (37.9%) exact matches, in which:  
234 unique CDR3  
5 unique J



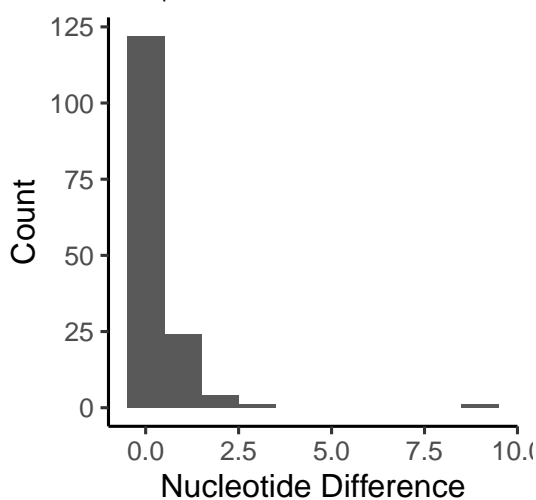
### IGKV1-5\*03

1000 sequences assigned  
772 (77.2%) exact matches, in which:  
624 unique CDR3  
5 unique J



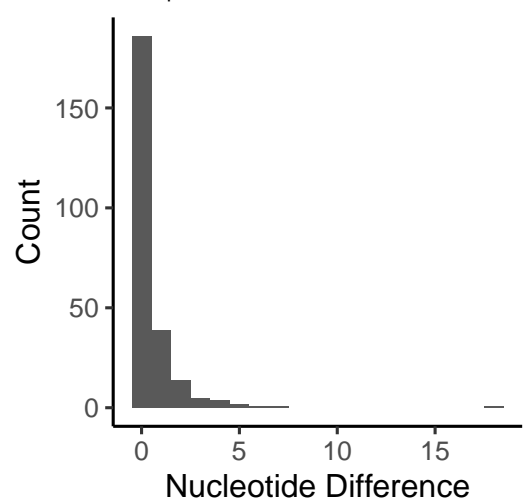
### IGKV1-8\*01

152 sequences assigned  
122 (80.3%) exact matches, in which:  
101 unique CDR3  
5 unique J



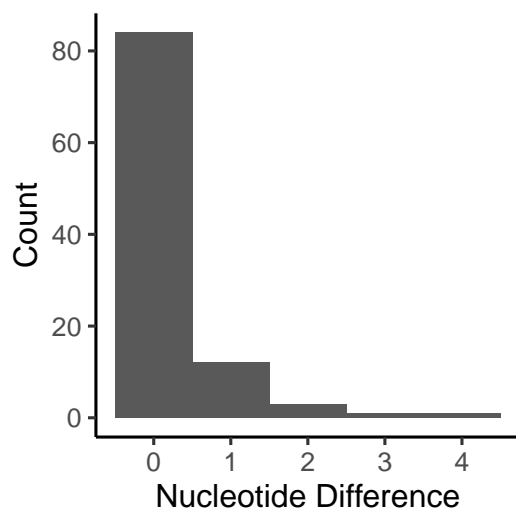
### IGKV1-16\*02

253 sequences assigned  
186 (73.5%) exact matches, in which:  
127 unique CDR3  
5 unique J



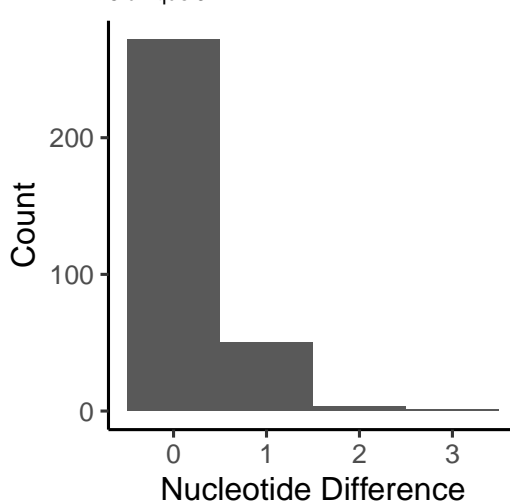
### IGKV1-6\*01

101 sequences assigned  
84 (83.2%) exact matches, in which:  
74 unique CDR3  
5 unique J



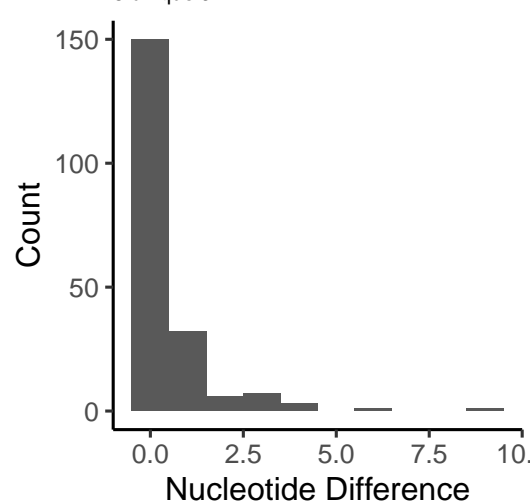
### IGKV1-8\*01\_T31C

326 sequences assigned  
272 (83.4%) exact matches, in which:  
241 unique CDR3  
5 unique J



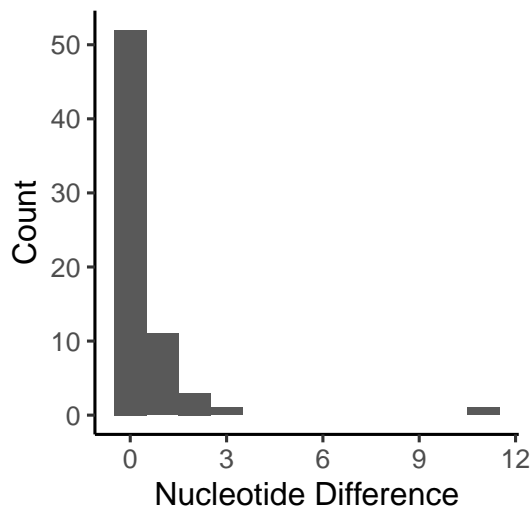
### IGKV1-17\*01

200 sequences assigned  
150 (75%) exact matches, in which:  
116 unique CDR3  
5 unique J



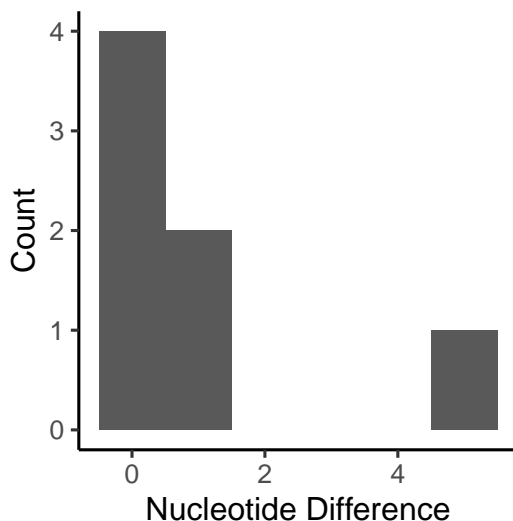
### IGKV1-17\*03

68 sequences assigned  
52 (76.5%) exact matches, in which:  
43 unique CDR3  
5 unique J



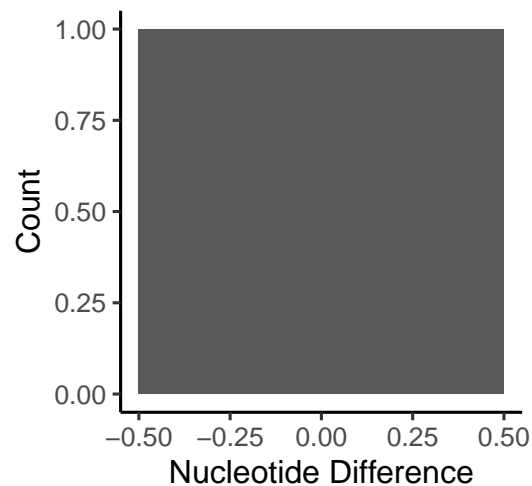
### IGKV2-18\*01

7 sequences assigned  
4 (57.1%) exact matches, in which:  
4 unique CDR3  
2 unique J



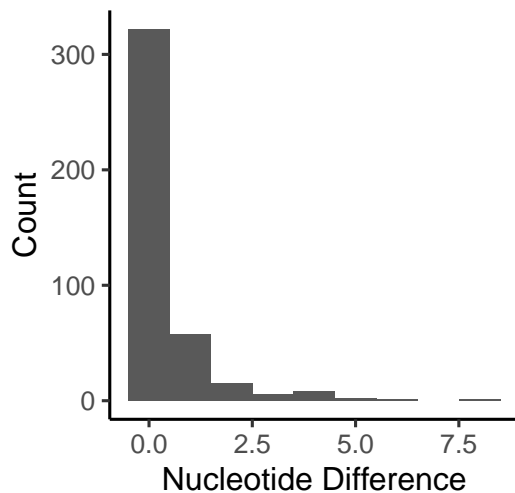
### IGKV1/OR2-108\*01

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



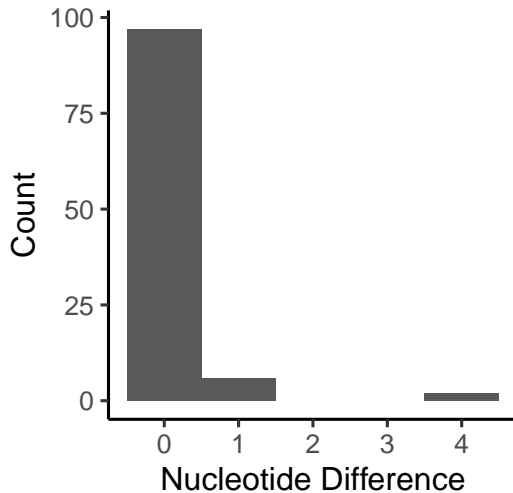
### IGKV1-27\*01

413 sequences assigned  
322 (78%) exact matches, in which:  
244 unique CDR3  
5 unique J



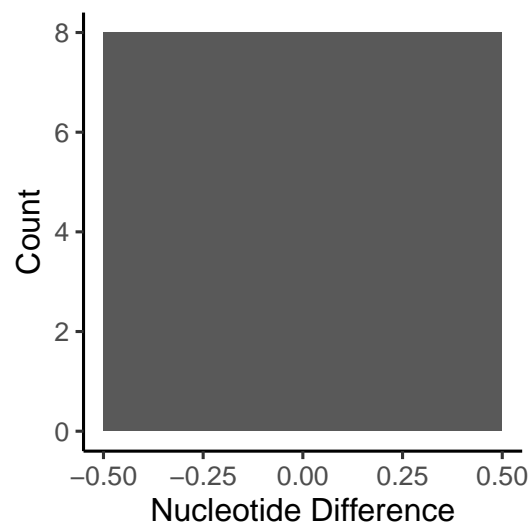
### IGKV2-24\*01

105 sequences assigned  
97 (92.4%) exact matches, in which:  
85 unique CDR3  
5 unique J



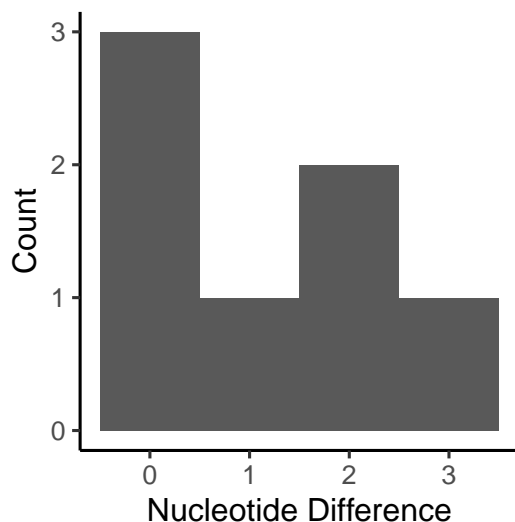
### IGKV3/OR2-268\*01

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



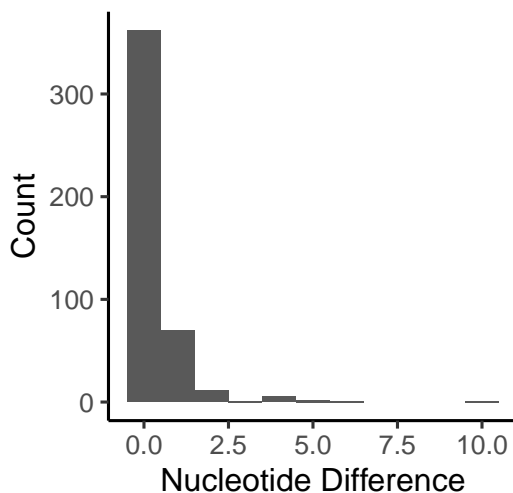
### IGKV2/OR22-4\*01

7 sequences assigned  
3 (42.9%) exact matches, in which:  
3 unique CDR3  
3 unique J



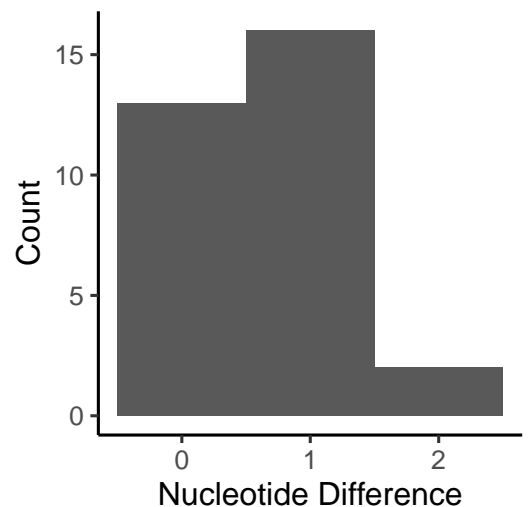
### IGKV2-30\*01

453 sequences assigned  
362 (79.9%) exact matches, in which:  
296 unique CDR3  
5 unique J



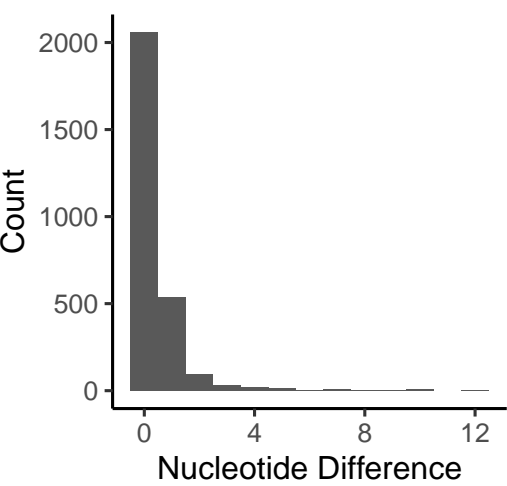
### IGKV3-7\*04

31 sequences assigned  
13 (41.9%) exact matches, in which:  
13 unique CDR3  
5 unique J



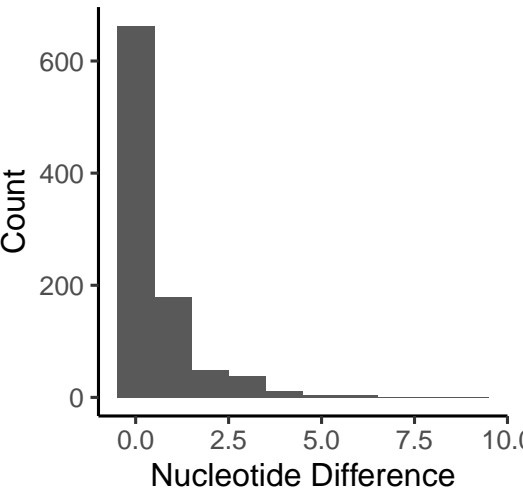
IGKV3-11\*01

2780 sequences assigned  
2058 (74%) exact matches, in which:  
1483 unique CDR3  
5 unique J



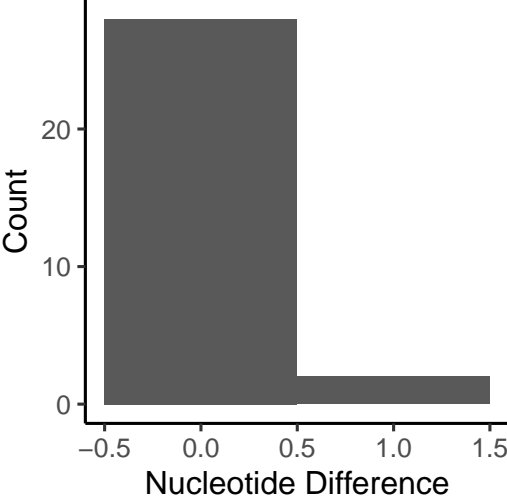
IGKV4-1\*01

952 sequences assigned  
663 (69.6%) exact matches, in which:  
471 unique CDR3  
5 unique J



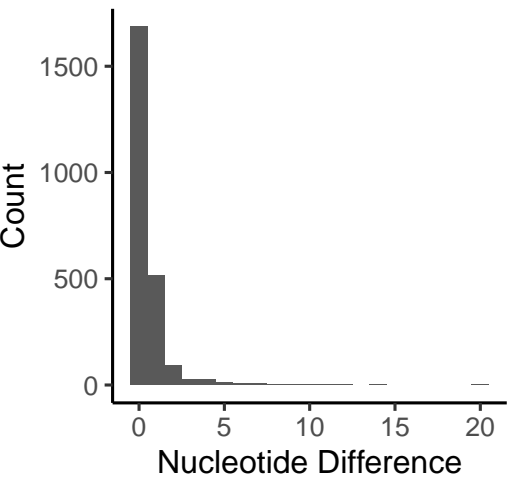
IGKV5-2\*01\_C214T

30 sequences assigned  
28 (93.3%) exact matches, in which:  
25 unique CDR3  
4 unique J



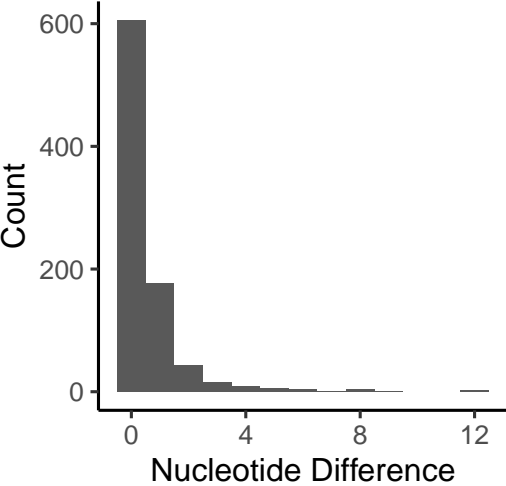
IGKV3-15\*01

2392 sequences assigned  
1686 (70.5%) exact matches, in which:  
1210 unique CDR3  
5 unique J



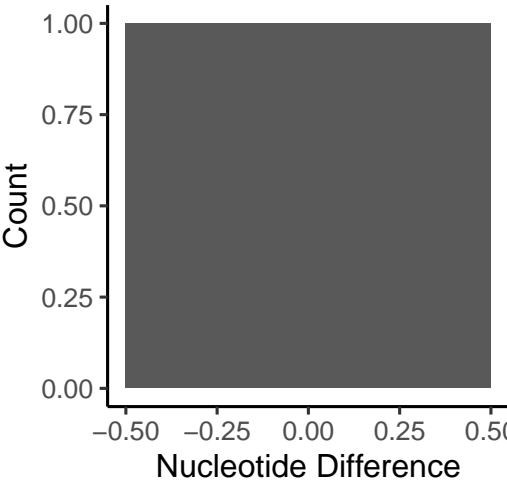
IGKV4-1\*01\_A318G

868 sequences assigned  
606 (69.8%) exact matches, in which:  
427 unique CDR3  
5 unique J



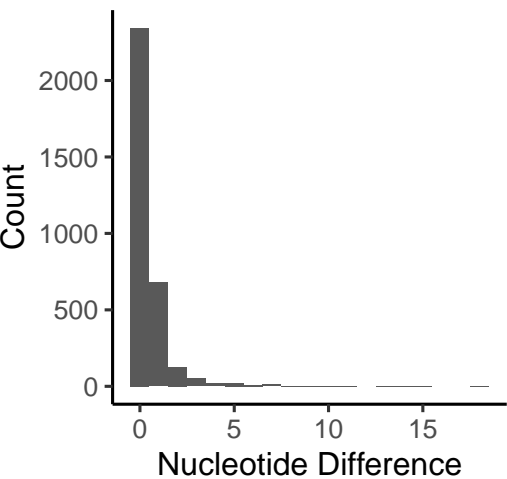
IGKV1/OR15-118\*01

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



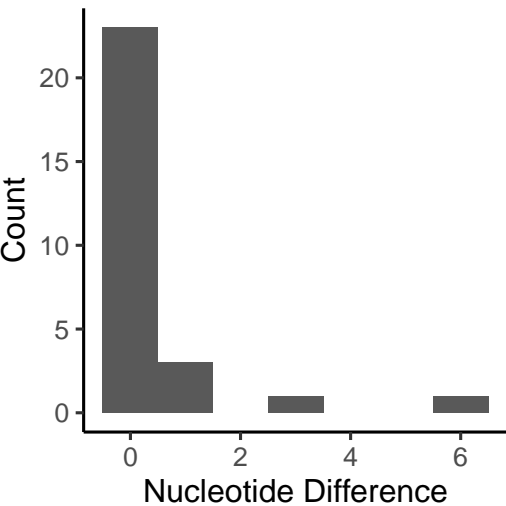
IGKV3-20\*01

3271 sequences assigned  
2343 (71.6%) exact matches, in which:  
1737 unique CDR3  
5 unique J



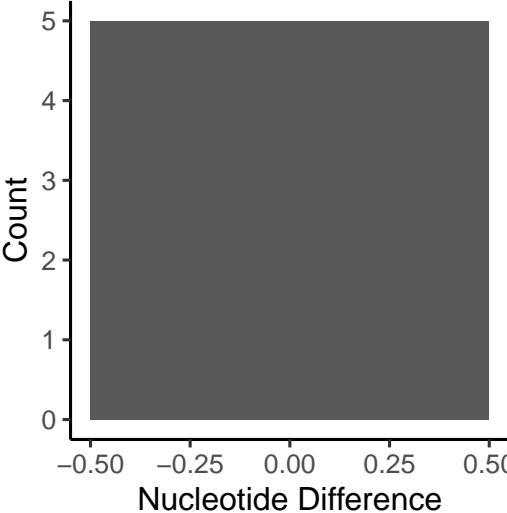
IGKV5-2\*01

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



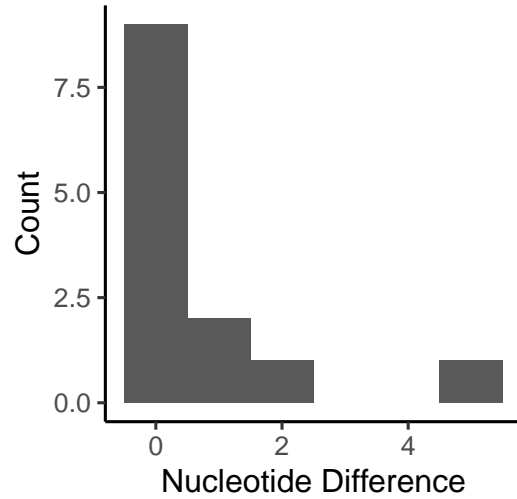
IGKV7-3\*01

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



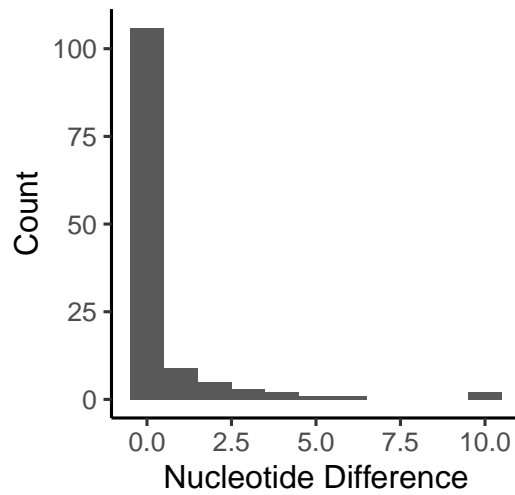
### IGKV3D-7\*01

13 sequences assigned  
9 (69.2%) exact matches, in which:  
7 unique CDR3  
4 unique J



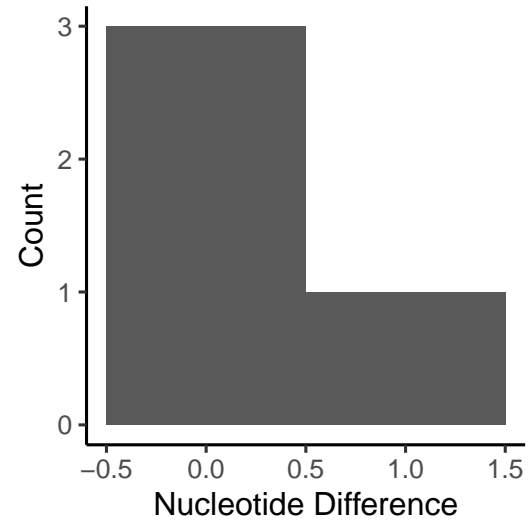
### IGKV3D-15\*01

129 sequences assigned  
106 (82.2%) exact matches, in which:  
92 unique CDR3  
5 unique J



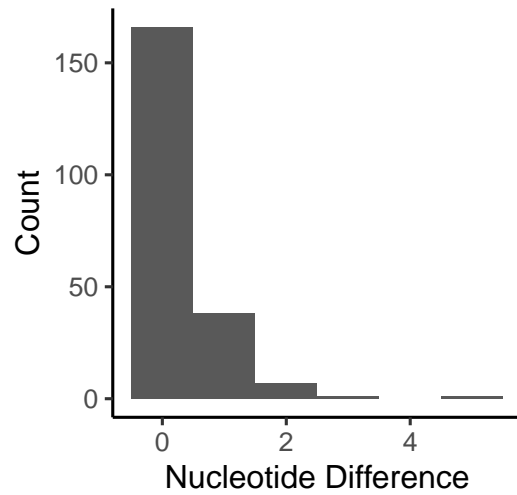
### IGKV2D-24\*01

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



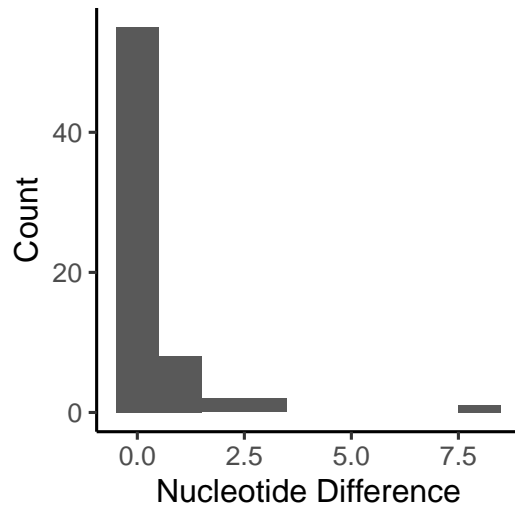
### IGKV1D-8\*01

213 sequences assigned  
166 (77.9%) exact matches, in which:  
113 unique CDR3  
5 unique J



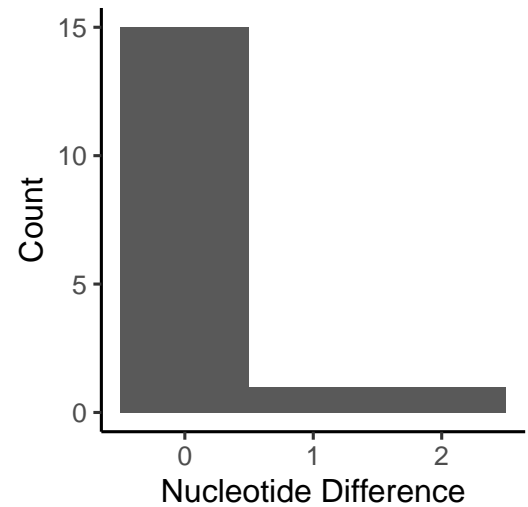
### IGKV1D-16\*01

68 sequences assigned  
55 (80.9%) exact matches, in which:  
42 unique CDR3  
5 unique J



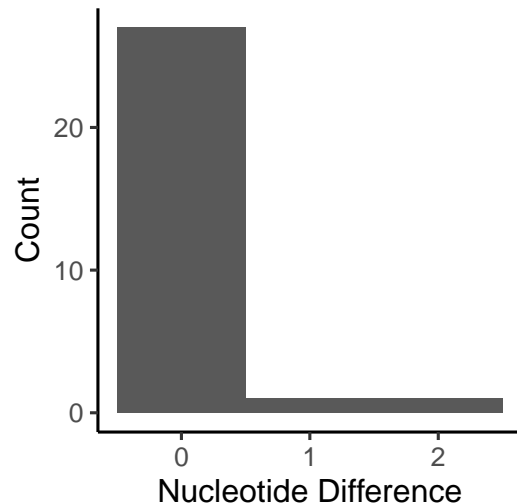
### IGKV2D-26\*03

17 sequences assigned  
15 (88.2%) exact matches, in which:  
13 unique CDR3  
4 unique J



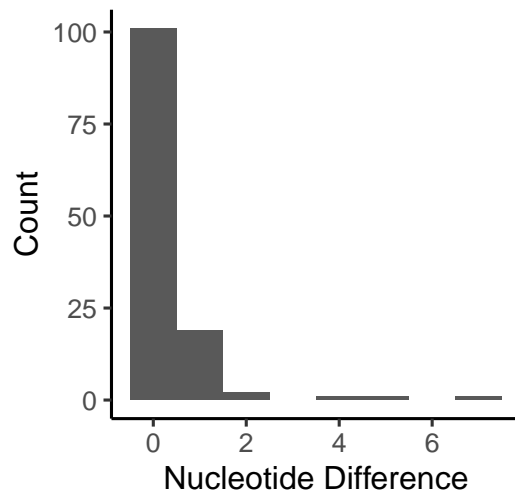
### IGKV3D-11\*01

29 sequences assigned  
27 (93.1%) exact matches, in which:  
24 unique CDR3  
5 unique J



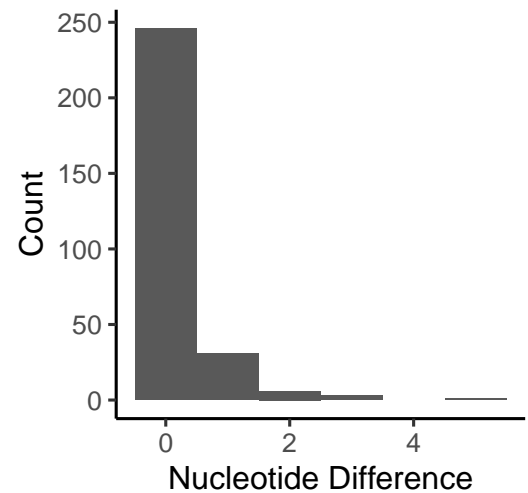
### IGKV3D-20\*01

125 sequences assigned  
101 (80.8%) exact matches, in which:  
85 unique CDR3  
5 unique J



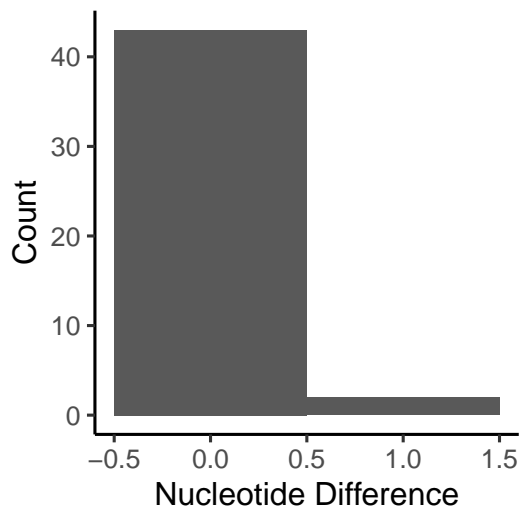
### IGKV2D-29\*01

289 sequences assigned  
246 (85.1%) exact matches, in which:  
198 unique CDR3  
5 unique J



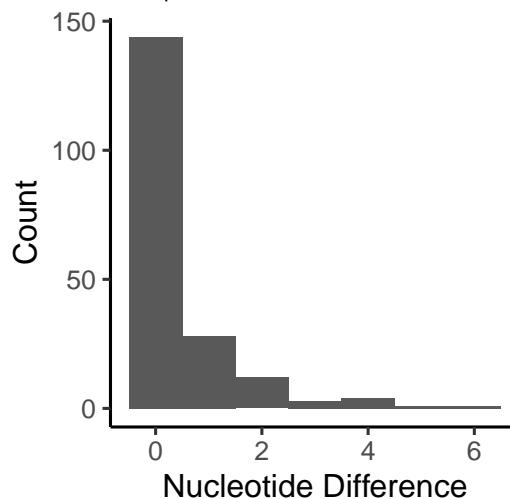
### IGKV2D-30\*01

45 sequences assigned  
43 (95.6%) exact matches, in which:  
41 unique CDR3  
5 unique J



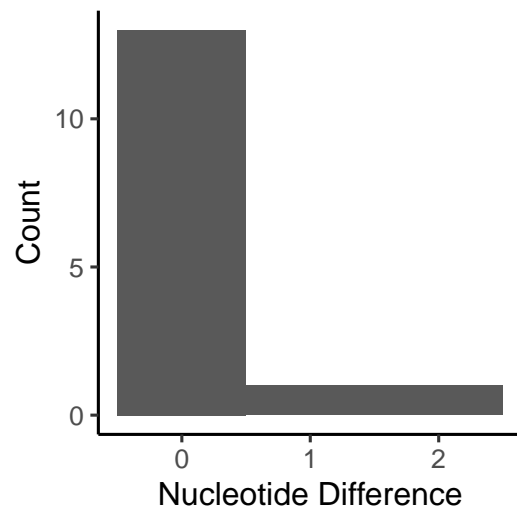
### IGKV1E-12\*01

193 sequences assigned  
144 (74.6%) exact matches, in which:  
96 unique CDR3  
5 unique J



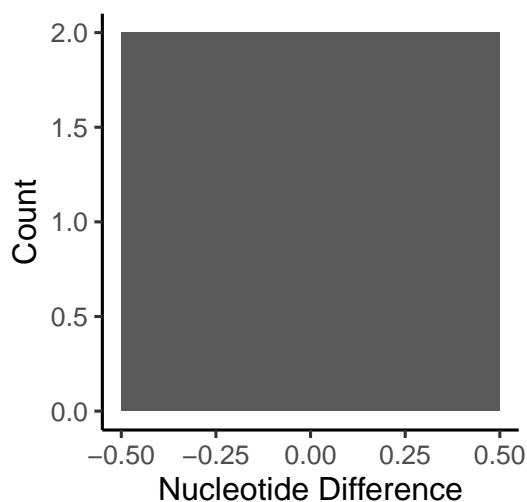
### IGKV1E-13\*02

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



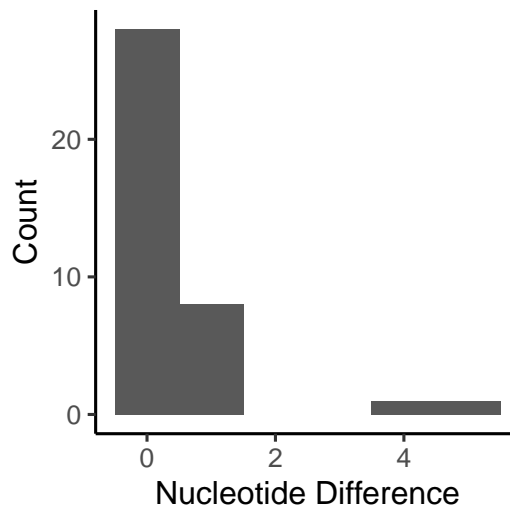
### IGKV6D-41\*01

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



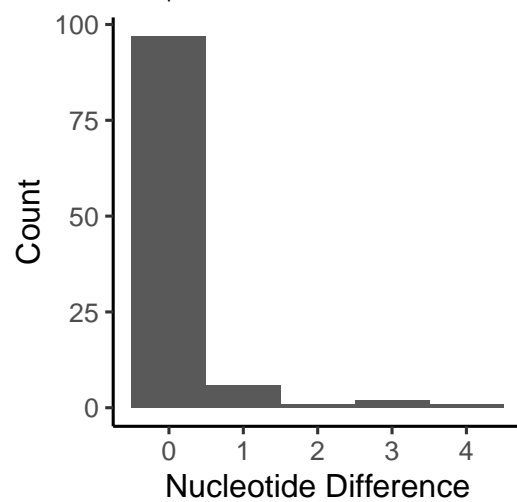
### IGKV1E-12\*02

38 sequences assigned  
28 (73.7%) exact matches, in which:  
20 unique CDR3  
5 unique J



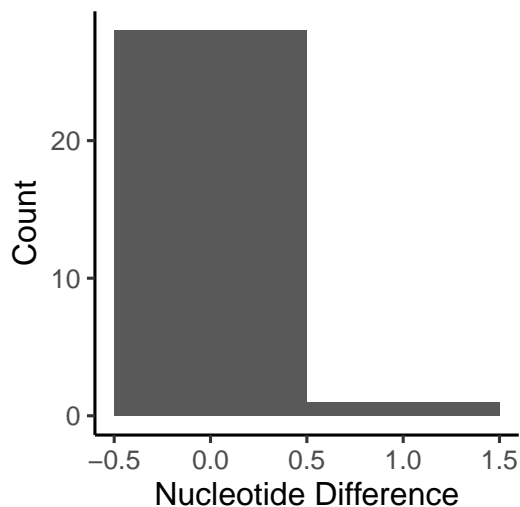
### IGKV1E-13\*03

107 sequences assigned  
97 (90.7%) exact matches, in which:  
82 unique CDR3  
5 unique J



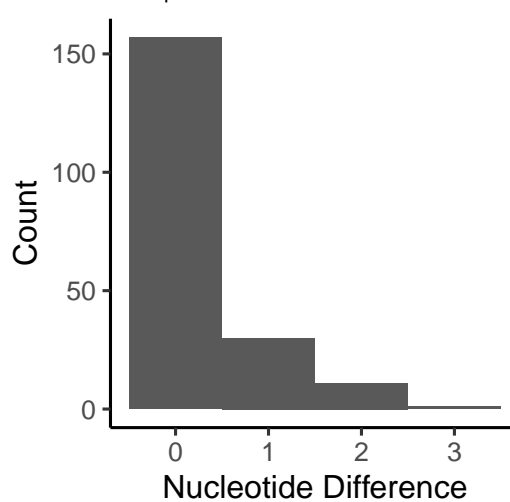
### IGKV1D-43\*01

29 sequences assigned  
28 (96.6%) exact matches, in which:  
26 unique CDR3  
5 unique J



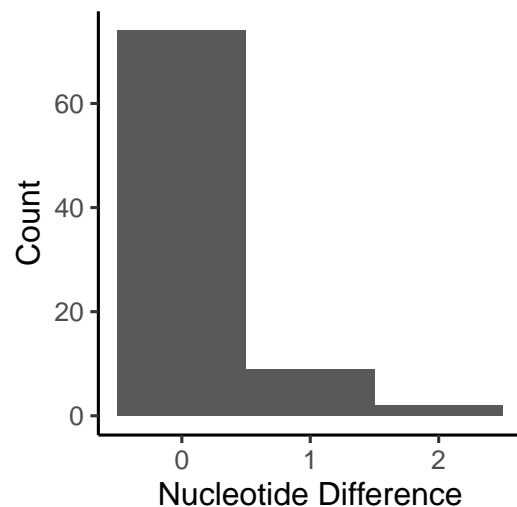
### IGKV1E-12\*03

199 sequences assigned  
157 (78.9%) exact matches, in which:  
121 unique CDR3  
5 unique J



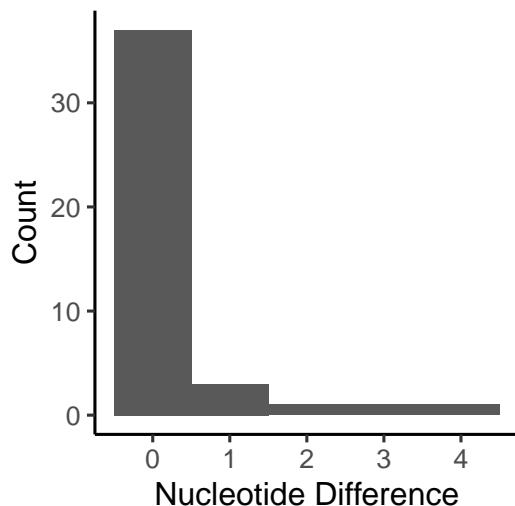
### IGKV6E-21\*01

85 sequences assigned  
74 (87.1%) exact matches, in which:  
61 unique CDR3  
5 unique J



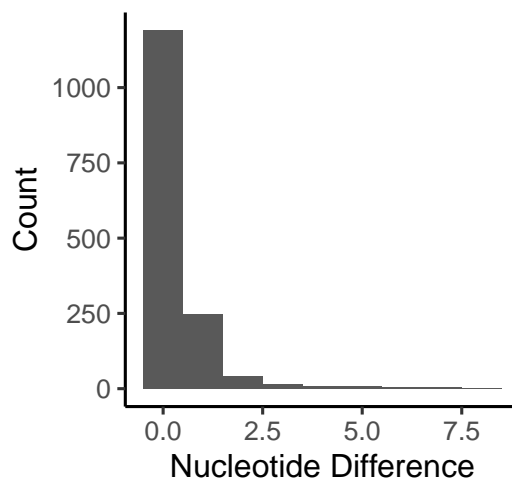
### IGKV6E-21\*03

43 sequences assigned  
37 (86%) exact matches, in which:  
29 unique CDR3  
5 unique J



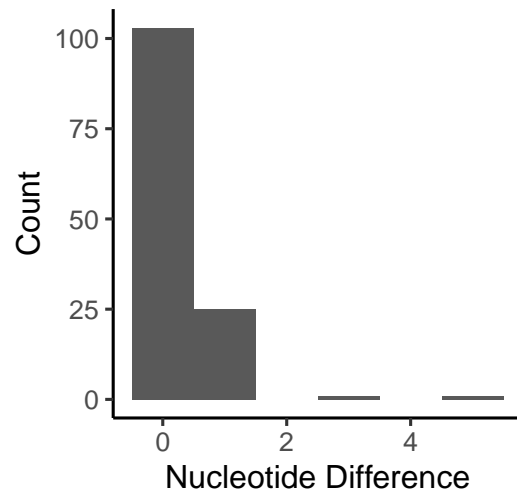
### IGKV1E-33\*01

1518 sequences assigned  
1190 (78.4%) exact matches, in which:  
853 unique CDR3  
5 unique J



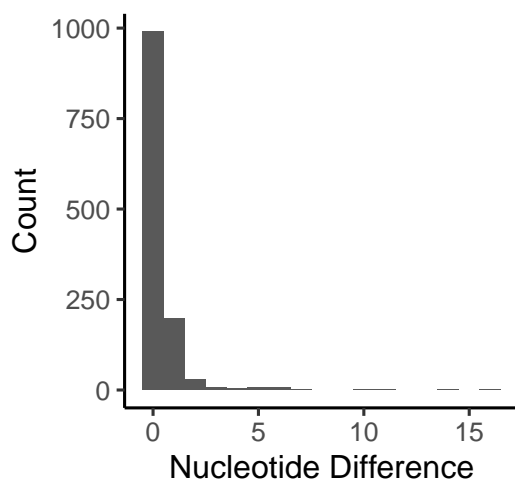
### IGKV2E-40\*01

130 sequences assigned  
103 (79.2%) exact matches, in which:  
86 unique CDR3  
5 unique J



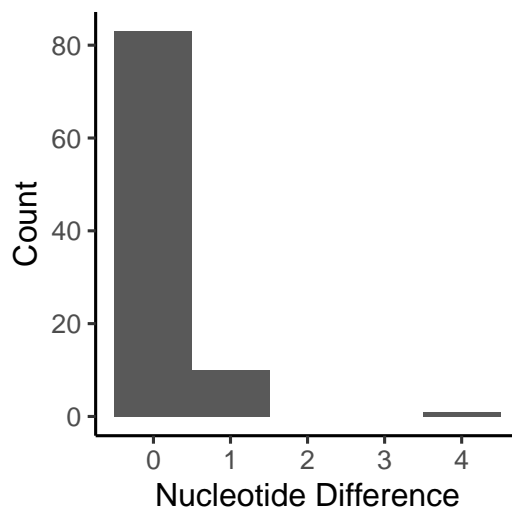
### IGKV2E-28\*01

1244 sequences assigned  
990 (79.6%) exact matches, in which:  
760 unique CDR3  
5 unique J



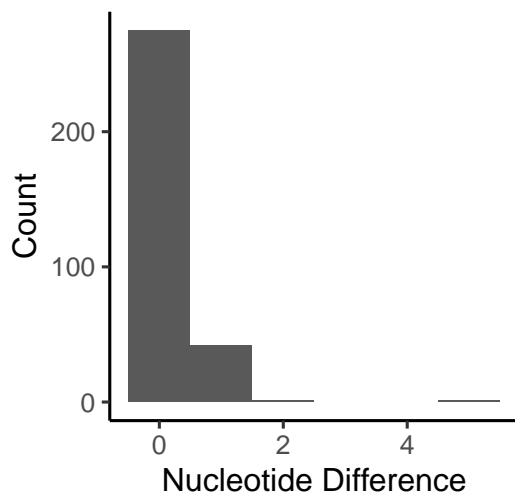
### IGKV1E-37\*01

94 sequences assigned  
83 (88.3%) exact matches, in which:  
75 unique CDR3  
5 unique J



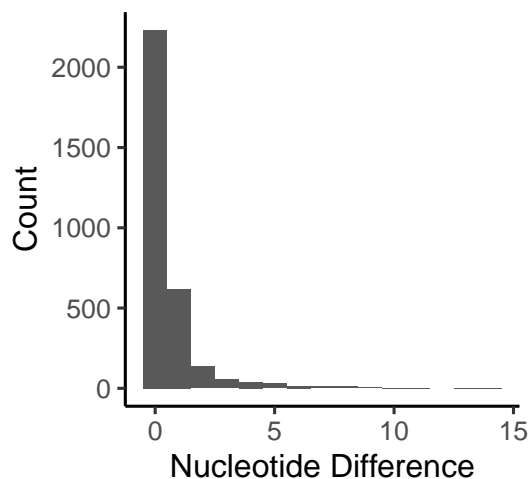
### IGKV2E-28\*01\_G202T

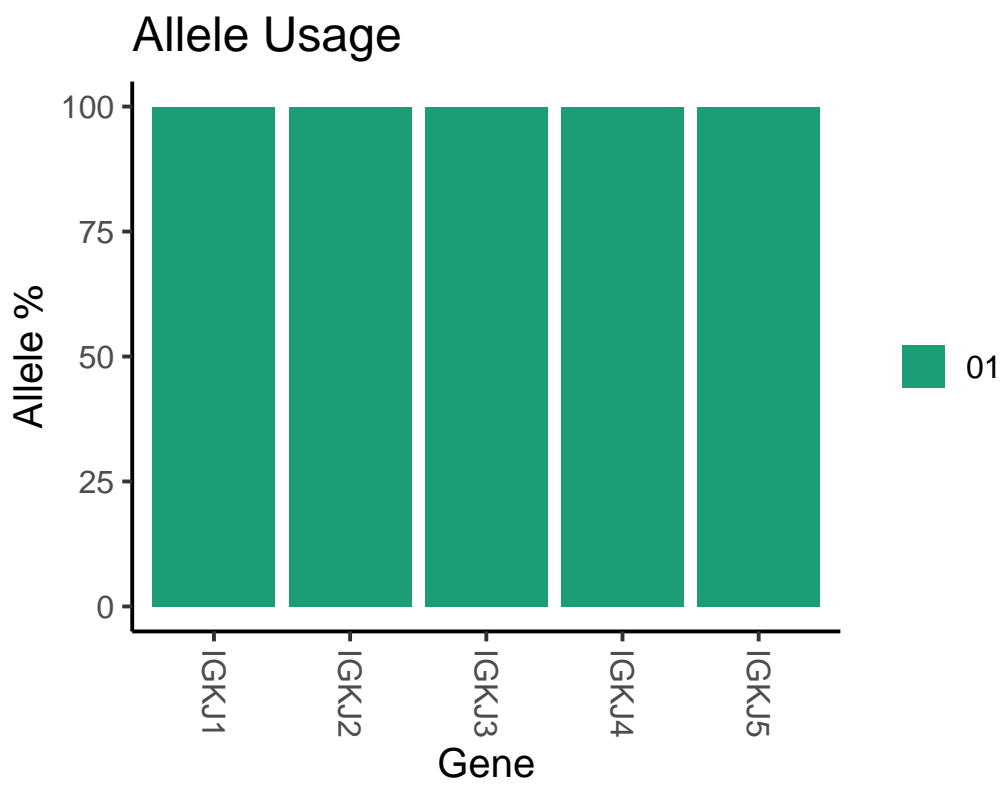
319 sequences assigned  
275 (86.2%) exact matches, in which:  
230 unique CDR3  
5 unique J



### IGKV1E-39\*01

3161 sequences assigned  
2232 (70.6%) exact matches, in which:  
1534 unique CDR3  
5 unique J





Warning – no inferred sequences found.