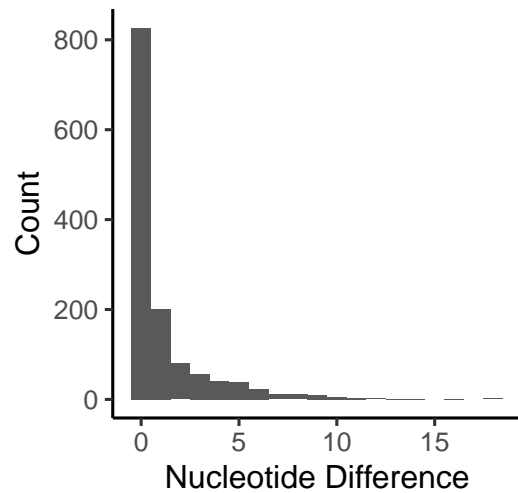


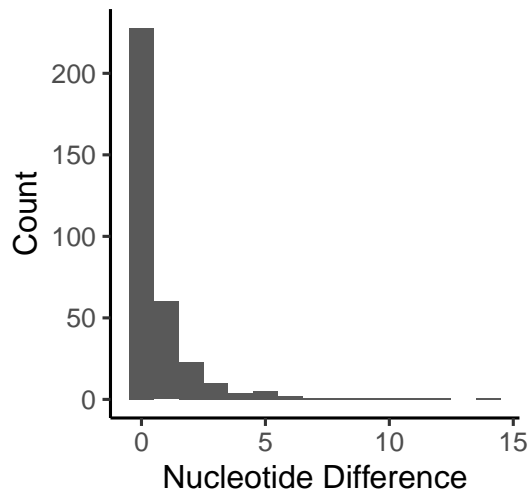
### IGKV1-5\*03

1314 sequences assigned  
827 (62.9%) exact matches, in which:  
611 unique CDR3  
5 unique J



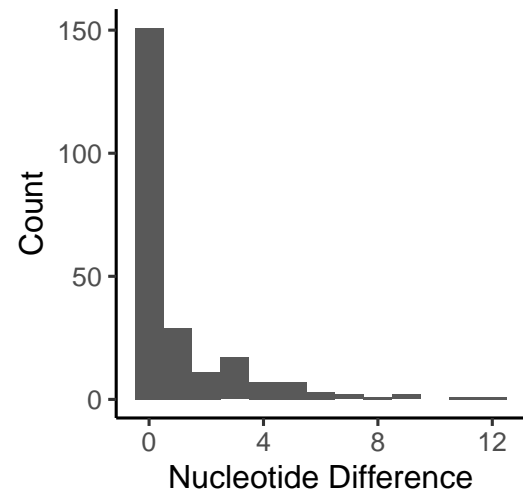
### IGKV1-9\*01

339 sequences assigned  
228 (67.3%) exact matches, in which:  
189 unique CDR3  
5 unique J



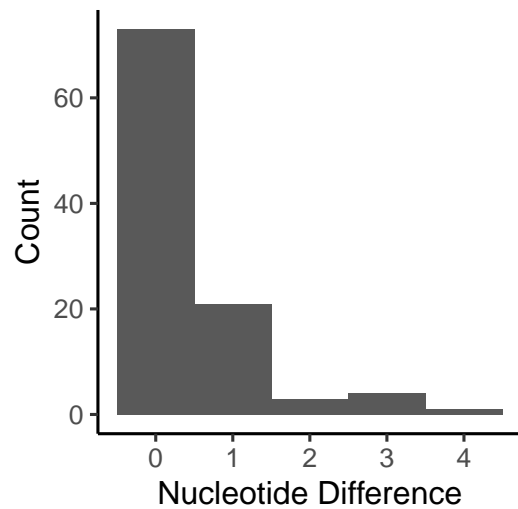
### IGKV1-27\*01

232 sequences assigned  
151 (65.1%) exact matches, in which:  
131 unique CDR3  
5 unique J



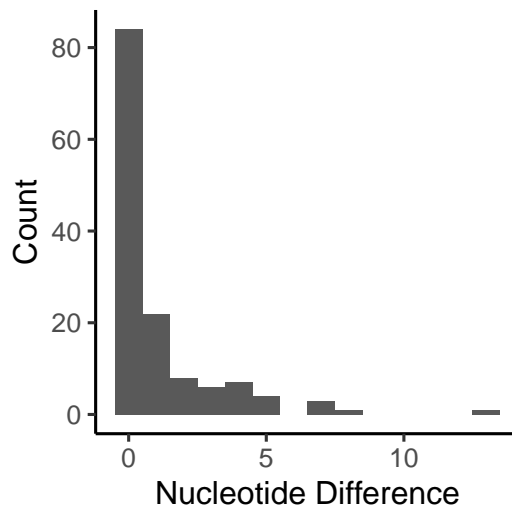
### IGKV1-6\*01

102 sequences assigned  
73 (71.6%) exact matches, in which:  
47 unique CDR3  
5 unique J



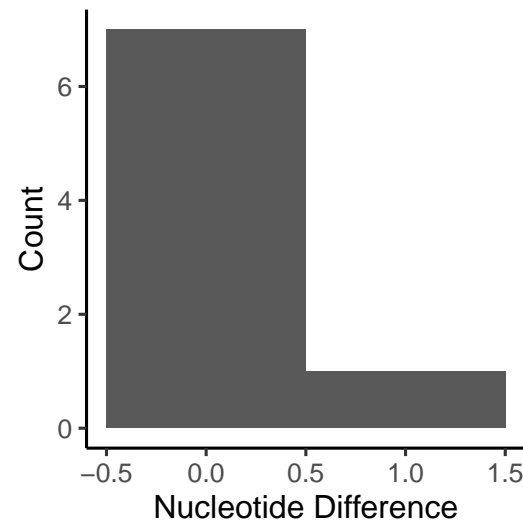
### IGKV1-16\*02

136 sequences assigned  
84 (61.8%) exact matches, in which:  
68 unique CDR3  
5 unique J



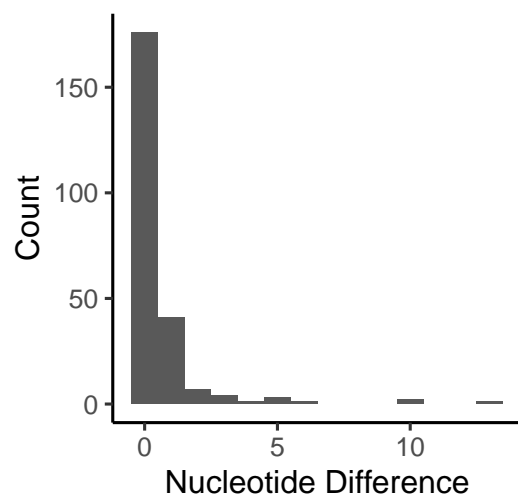
### IGKV2/OR22-4\*01

8 sequences assigned  
7 (87.5%) exact matches, in which:  
6 unique CDR3  
3 unique J



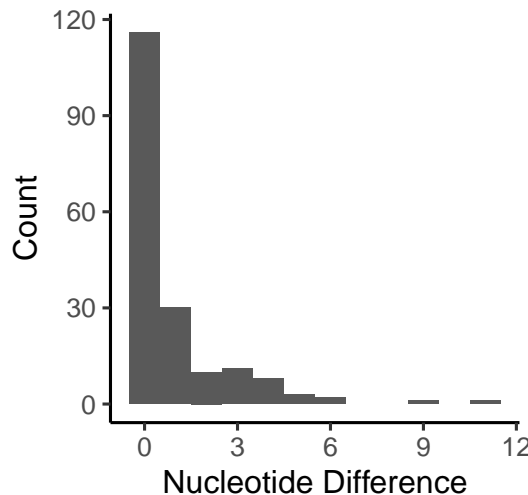
### IGKV1-8\*01

236 sequences assigned  
176 (74.6%) exact matches, in which:  
129 unique CDR3  
5 unique J



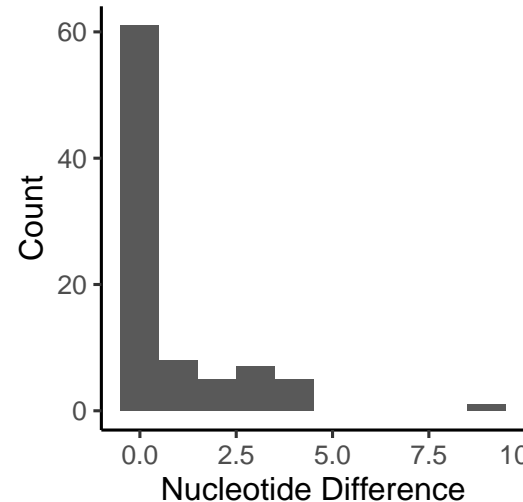
### IGKV1-17\*01

182 sequences assigned  
116 (63.7%) exact matches, in which:  
93 unique CDR3  
5 unique J



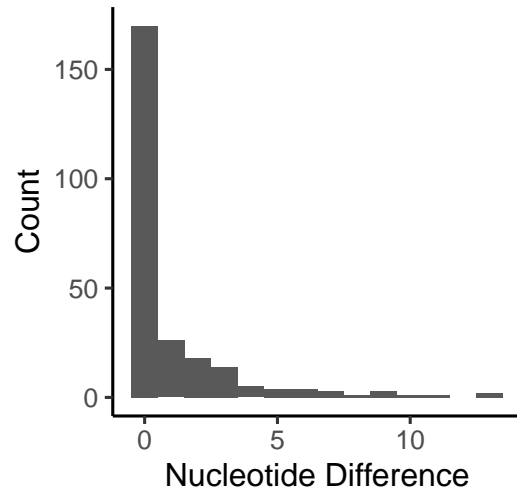
### IGKV2-24\*01

87 sequences assigned  
61 (70.1%) exact matches, in which:  
52 unique CDR3  
5 unique J



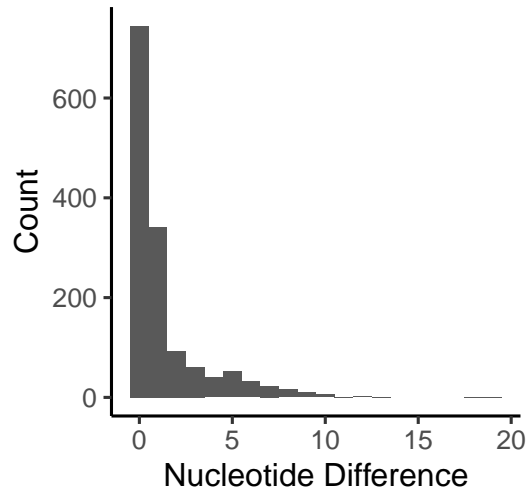
### IGKV2–30\*01

253 sequences assigned  
170 (67.2%) exact matches, in which:  
157 unique CDR3  
5 unique J



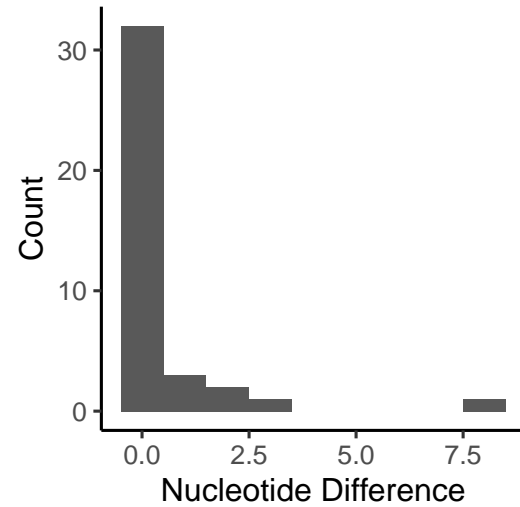
### IGKV3–15\*01

1426 sequences assigned  
745 (52.2%) exact matches, in which:  
584 unique CDR3  
5 unique J



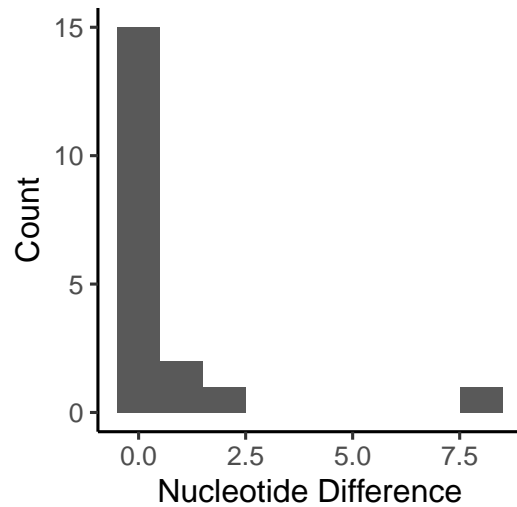
### IGKV5–2\*01

39 sequences assigned  
32 (82.1%) exact matches, in which:  
29 unique CDR3  
4 unique J



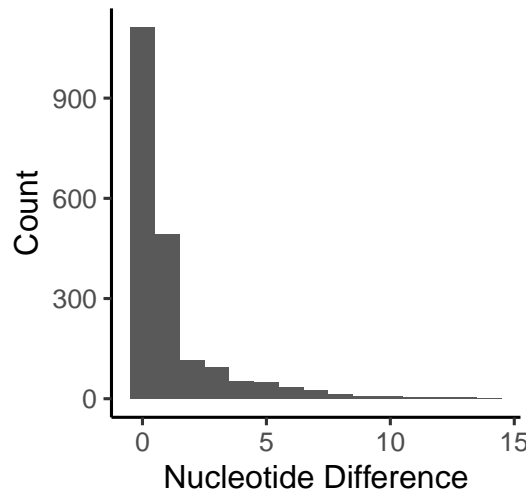
### IGKV3–7\*04

19 sequences assigned  
15 (78.9%) exact matches, in which:  
14 unique CDR3  
5 unique J



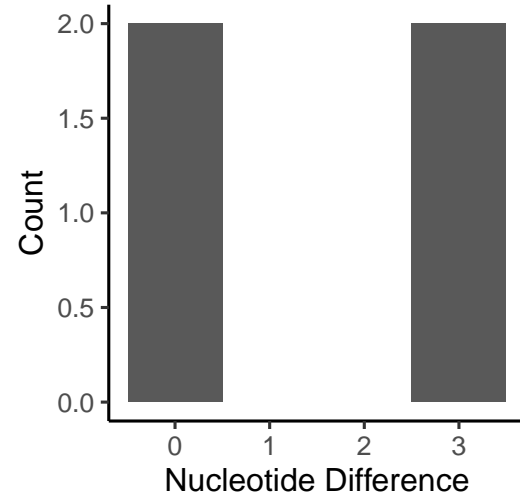
### IGKV3–20\*01

2016 sequences assigned  
1113 (55.2%) exact matches, in which:  
916 unique CDR3  
5 unique J



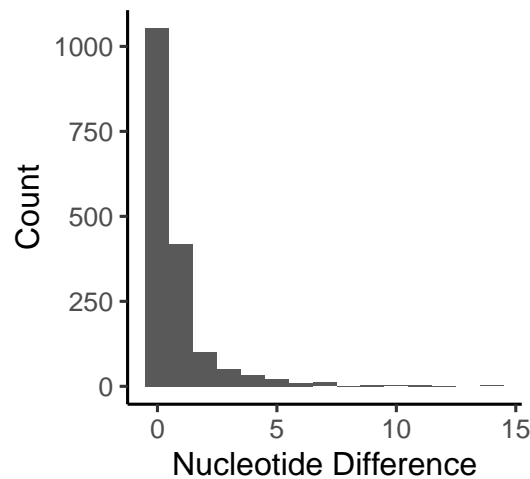
### IGKV7–3\*01

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



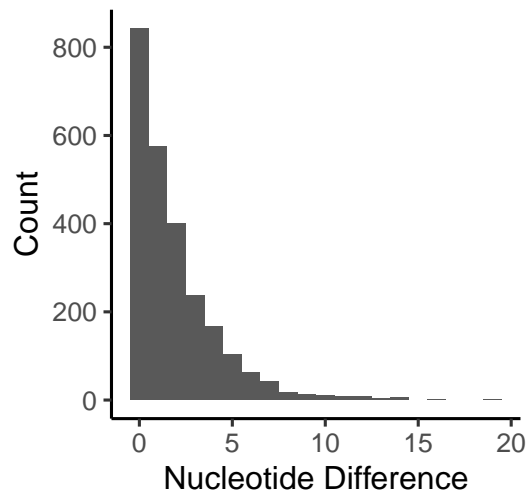
### IGKV3–11\*01

1711 sequences assigned  
1054 (61.6%) exact matches, in which:  
796 unique CDR3  
5 unique J



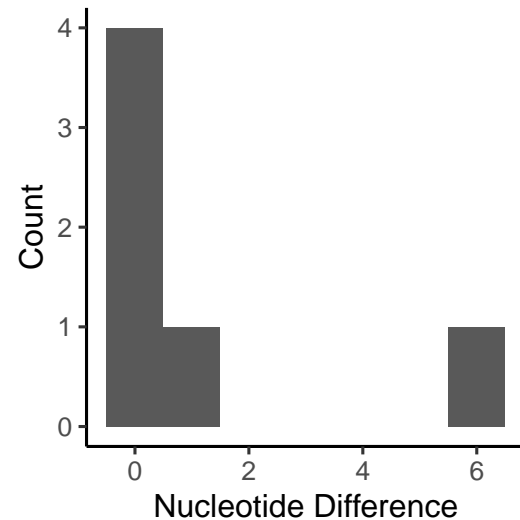
### IGKV4–1\*01

2497 sequences assigned  
843 (33.8%) exact matches, in which:  
579 unique CDR3  
5 unique J



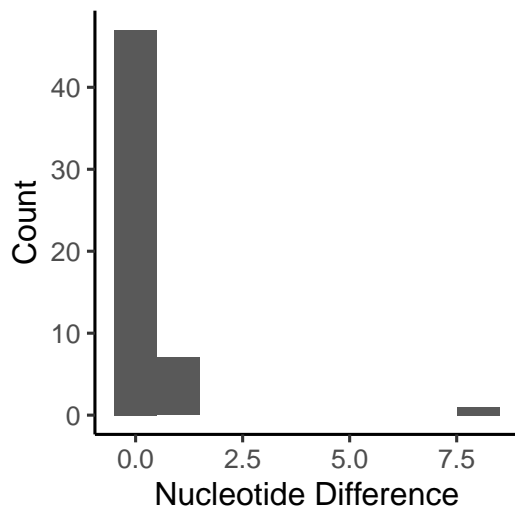
### IGKV3D–7\*01

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



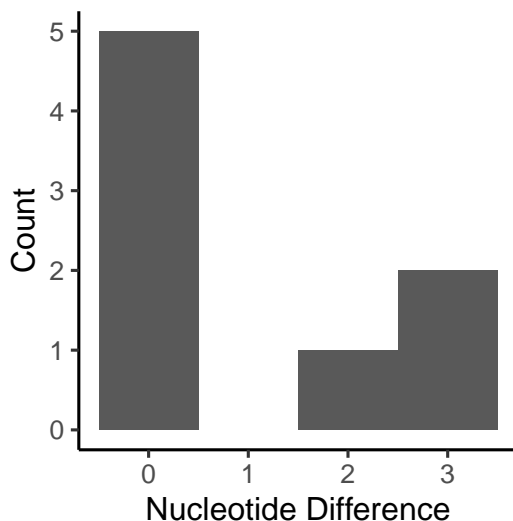
### IGKV1D-8\*01

55 sequences assigned  
47 (85.5%) exact matches, in which:  
34 unique CDR3  
5 unique J



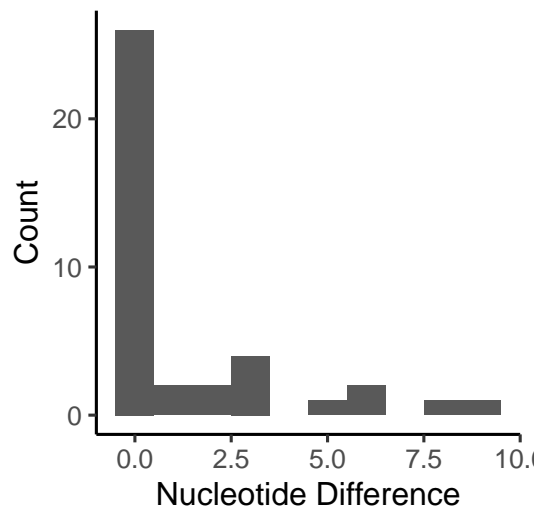
### IGKV3D-11\*02

8 sequences assigned  
5 (62.5%) exact matches, in which:  
5 unique CDR3  
3 unique J



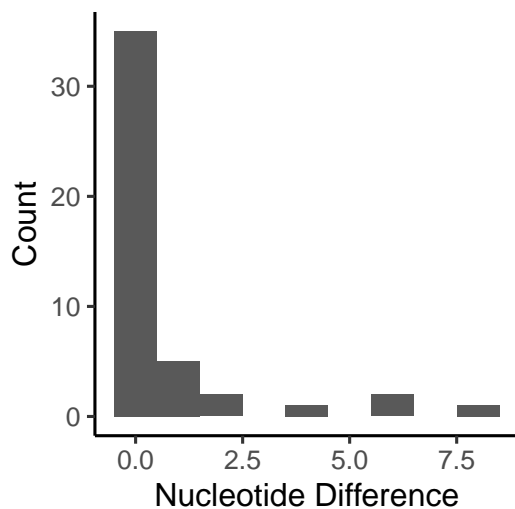
### IGKV1D-16\*01

39 sequences assigned  
26 (66.7%) exact matches, in which:  
24 unique CDR3  
5 unique J



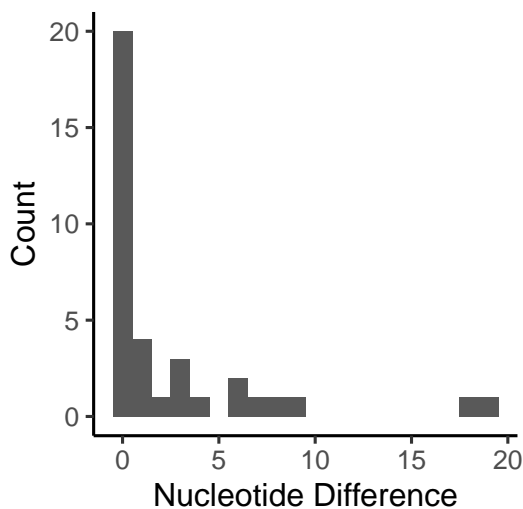
### IGKV1D-8\*02

46 sequences assigned  
35 (76.1%) exact matches, in which:  
32 unique CDR3  
4 unique J



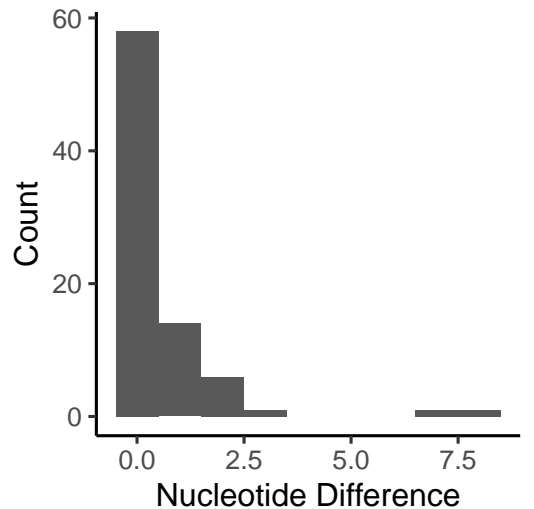
### IGKV3D-15\*01

36 sequences assigned  
20 (55.6%) exact matches, in which:  
20 unique CDR3  
5 unique J



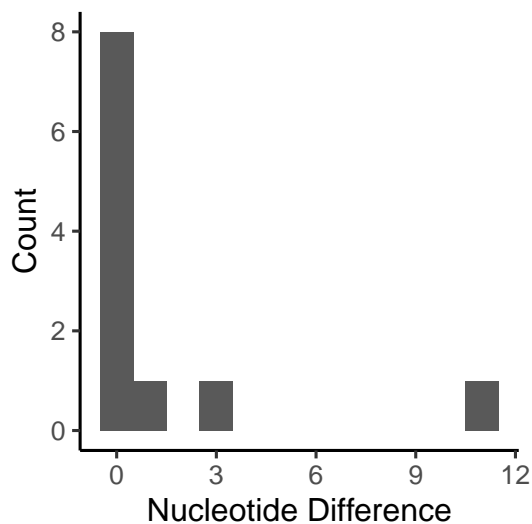
### IGKV3D-20\*01

81 sequences assigned  
58 (71.6%) exact matches, in which:  
55 unique CDR3  
5 unique J



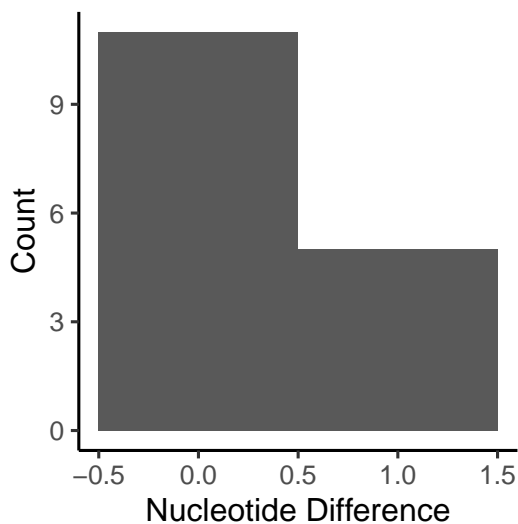
### IGKV3D-11\*01

11 sequences assigned  
8 (72.7%) exact matches, in which:  
8 unique CDR3  
3 unique J



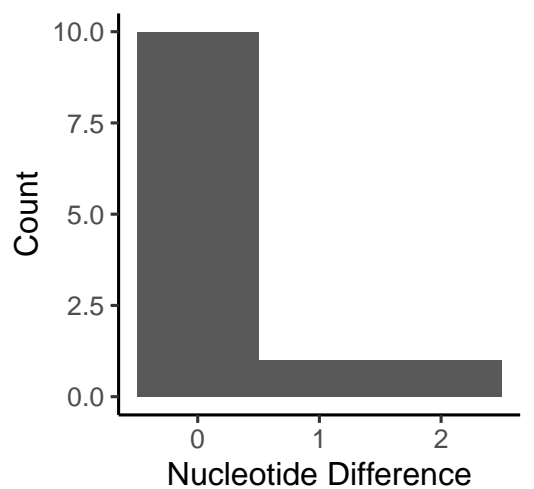
### IGKV3D-15\*03

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



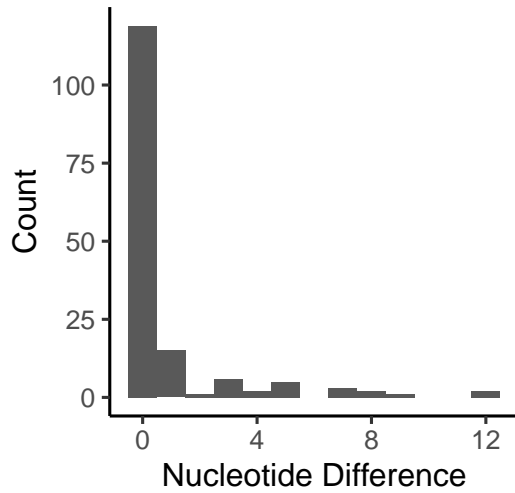
### IGKV2D-26\*03

12 sequences assigned  
10 (83.3%) exact matches, in which:  
9 unique CDR3  
5 unique J



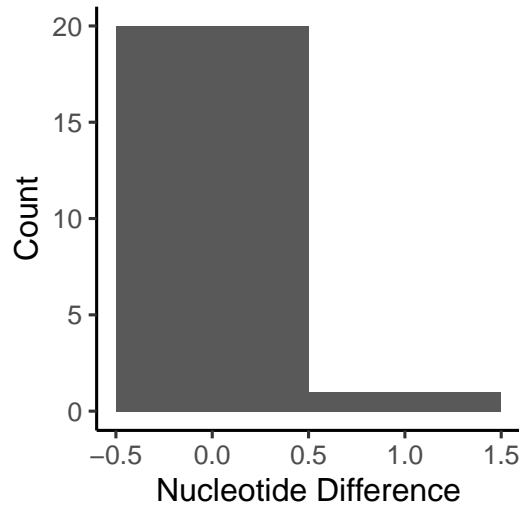
### IGKV2D-29\*01

157 sequences assigned  
119 (75.8%) exact matches, in which:  
99 unique CDR3  
5 unique J



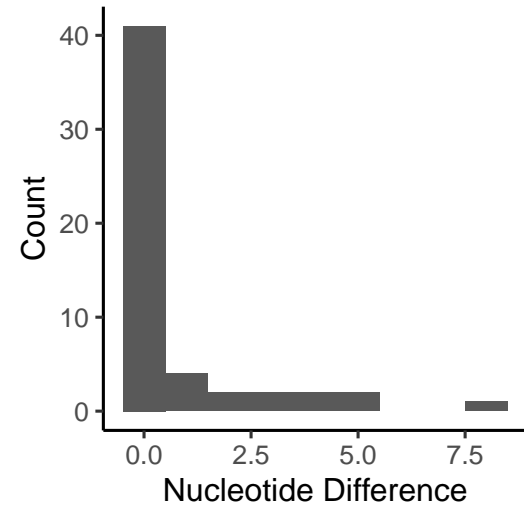
### IGKV1D-43\*01

21 sequences assigned  
20 (95.2%) exact matches, in which:  
20 unique CDR3  
5 unique J



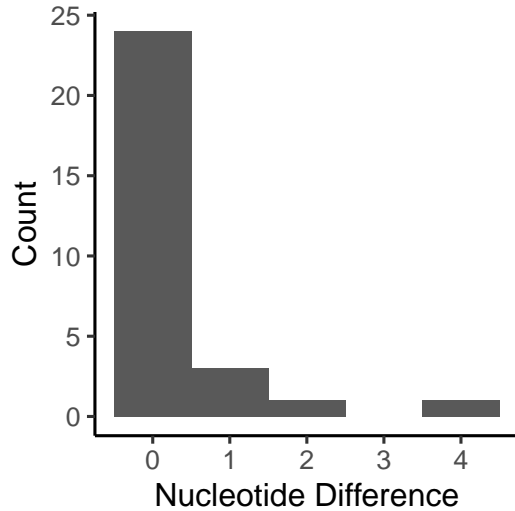
### IGKV1E-12\*03

54 sequences assigned  
41 (75.9%) exact matches, in which:  
34 unique CDR3  
5 unique J



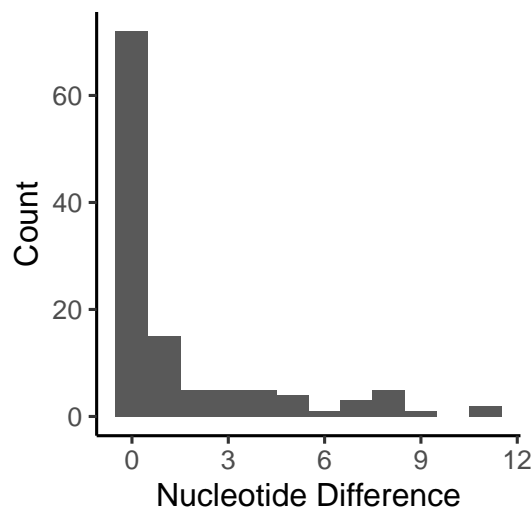
### IGKV2D-30\*01

29 sequences assigned  
24 (82.8%) exact matches, in which:  
22 unique CDR3  
5 unique J



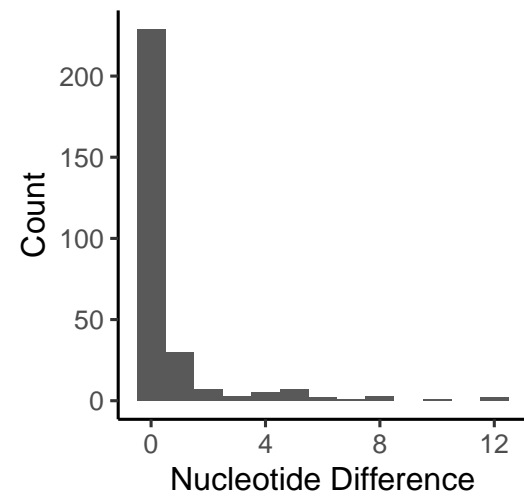
### IGKV1E-12\*01

118 sequences assigned  
72 (61%) exact matches, in which:  
45 unique CDR3  
5 unique J



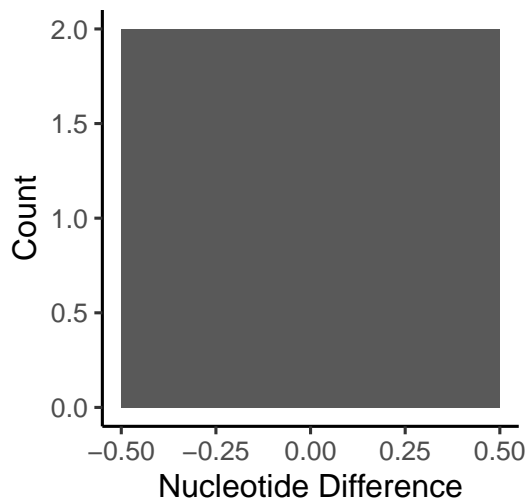
### IGKV1E-13\*02

290 sequences assigned  
229 (79%) exact matches, in which:  
189 unique CDR3  
5 unique J



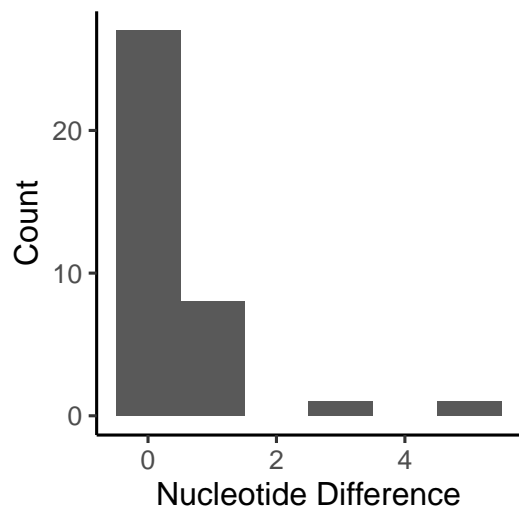
### IGKV6D-41\*01

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



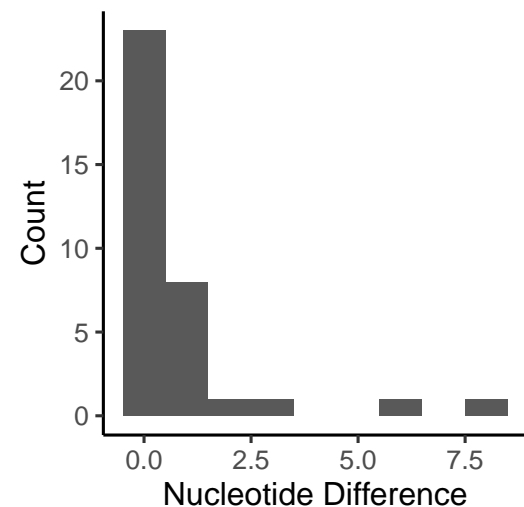
### IGKV1E-12\*02

37 sequences assigned  
27 (73%) exact matches, in which:  
18 unique CDR3  
5 unique J



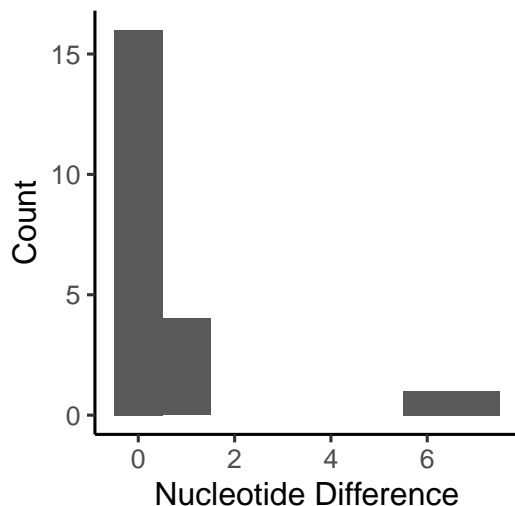
### IGKV6E-21\*01

35 sequences assigned  
23 (65.7%) exact matches, in which:  
20 unique CDR3  
5 unique J



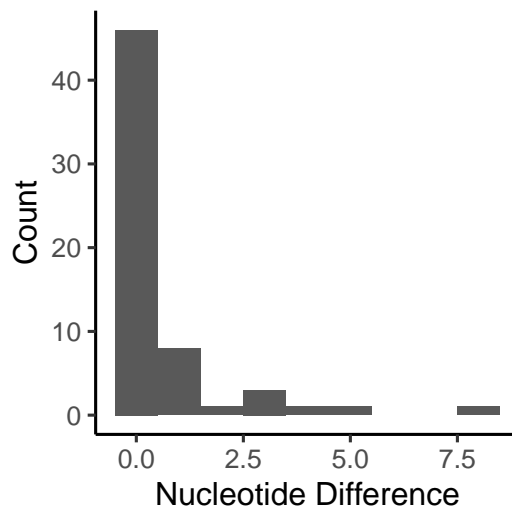
### IGKV6E-21\*03

22 sequences assigned  
16 (72.7%) exact matches, in which:  
16 unique CDR3  
5 unique J



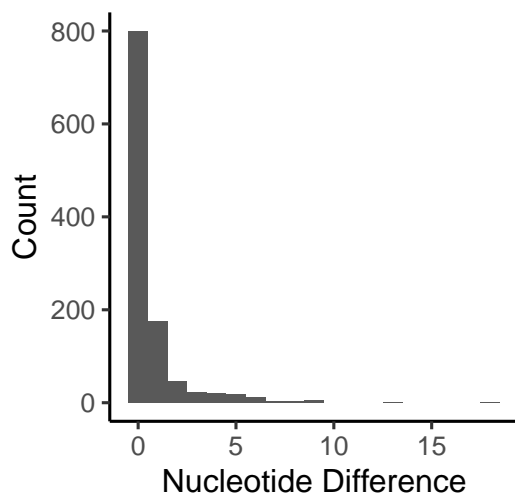
### IGKV1E-37\*01

61 sequences assigned  
46 (75.4%) exact matches, in which:  
44 unique CDR3  
5 unique J



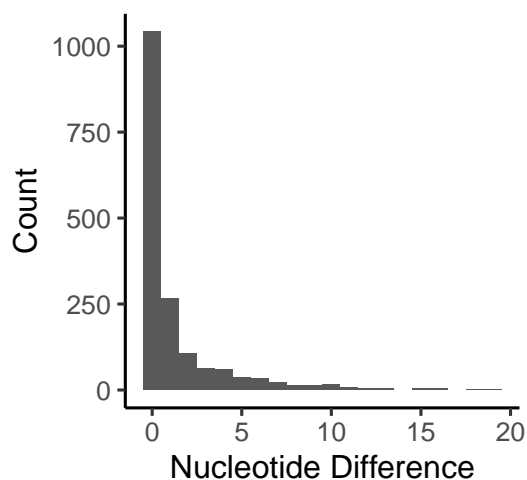
### IGKV2E-28\*01

1111 sequences assigned  
800 (72%) exact matches, in which:  
604 unique CDR3  
5 unique J



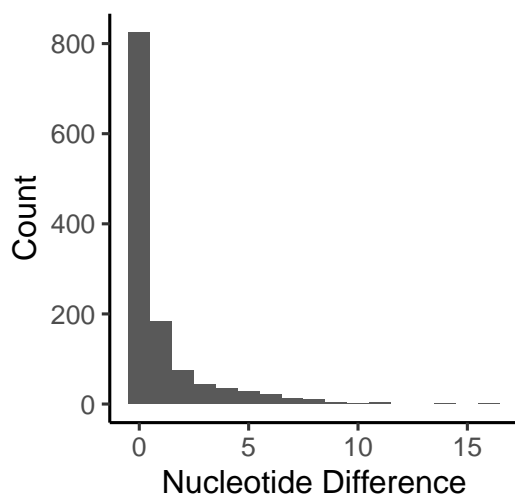
### IGKV1E-39\*01

1694 sequences assigned  
1042 (61.5%) exact matches, in which:  
756 unique CDR3  
5 unique J



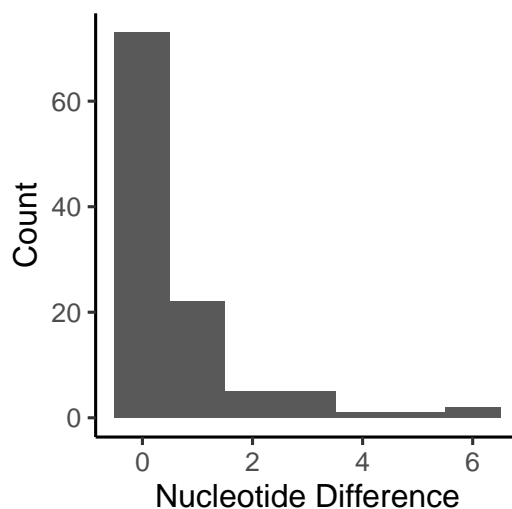
### IGKV1E-33\*01

1244 sequences assigned  
825 (66.3%) exact matches, in which:  
644 unique CDR3  
5 unique J



### IGKV2E-40\*01

109 sequences assigned  
73 (67%) exact matches, in which:  
59 unique CDR3  
5 unique J





Warning – no inferred sequences found.