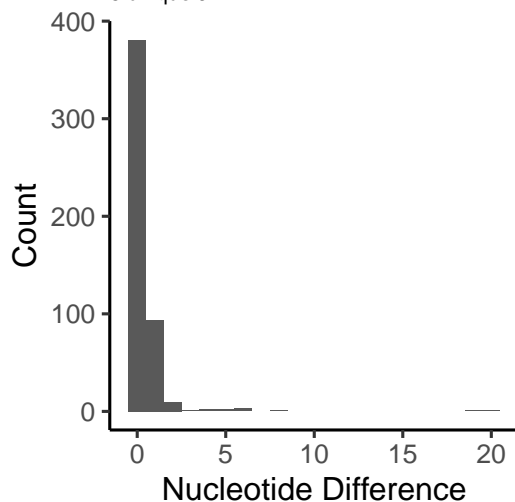


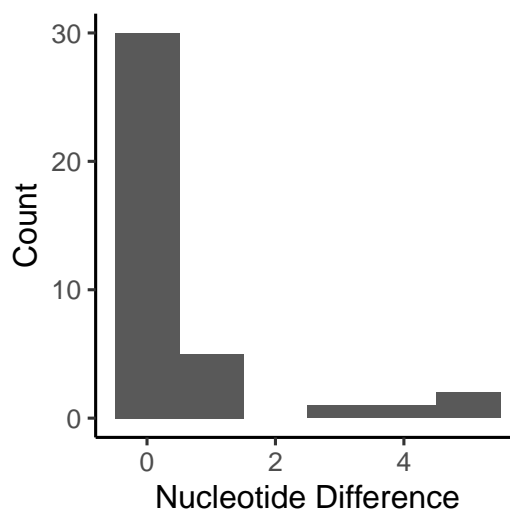
### IGKV1-5\*01

499 sequences assigned  
381 (76.4%) exact matches, in which:  
325 unique CDR3  
5 unique J



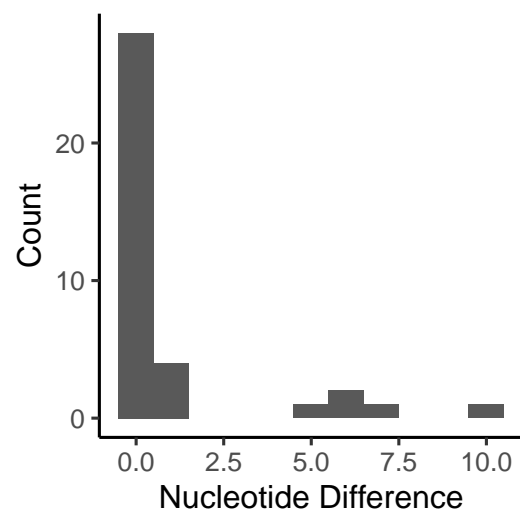
### IGKV1-8\*01

39 sequences assigned  
30 (76.9%) exact matches, in which:  
29 unique CDR3  
5 unique J



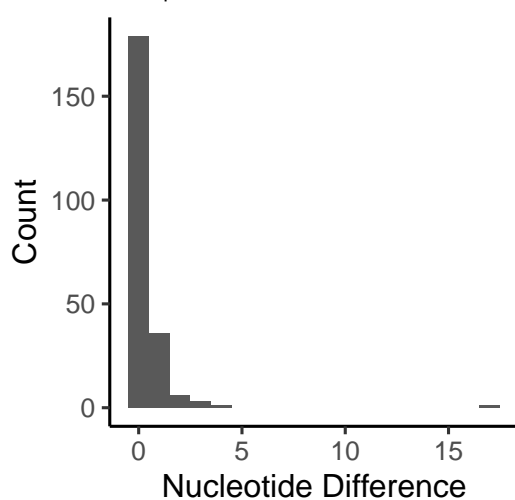
### IGKV1-16\*02

37 sequences assigned  
28 (75.7%) exact matches, in which:  
24 unique CDR3  
5 unique J



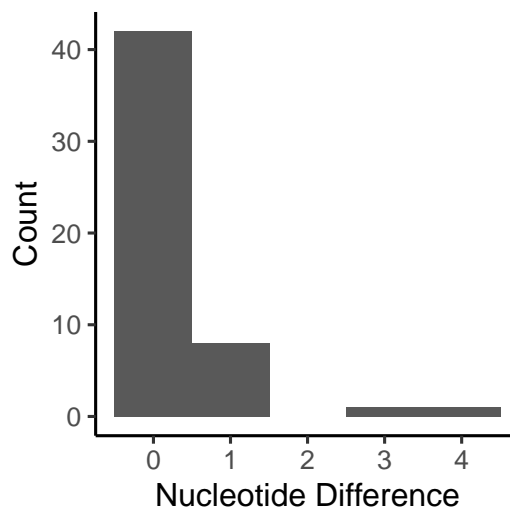
### IGKV1-5\*03

226 sequences assigned  
179 (79.2%) exact matches, in which:  
164 unique CDR3  
5 unique J



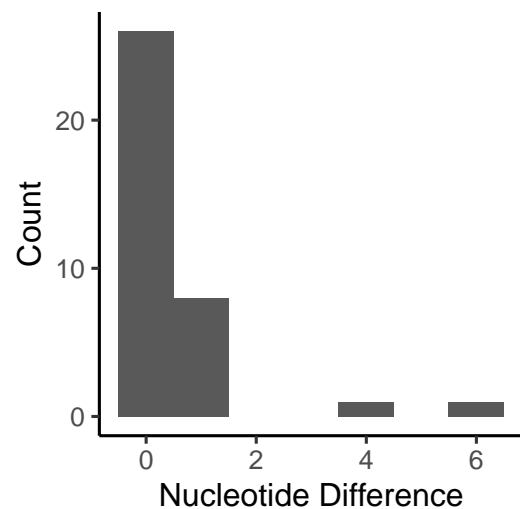
### IGKV1-8\*01\_T31C

52 sequences assigned  
42 (80.8%) exact matches, in which:  
40 unique CDR3  
5 unique J



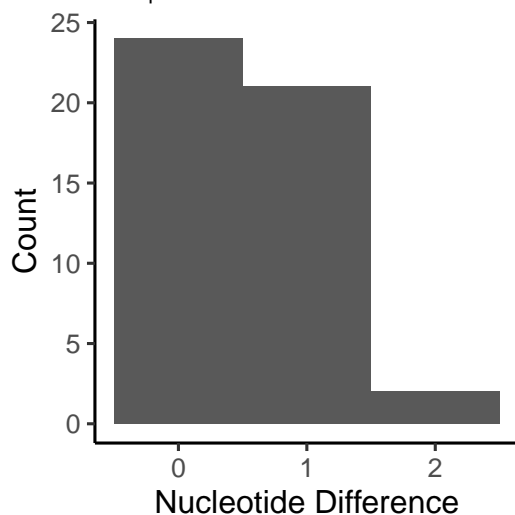
### IGKV1-17\*01

36 sequences assigned  
26 (72.2%) exact matches, in which:  
25 unique CDR3  
5 unique J



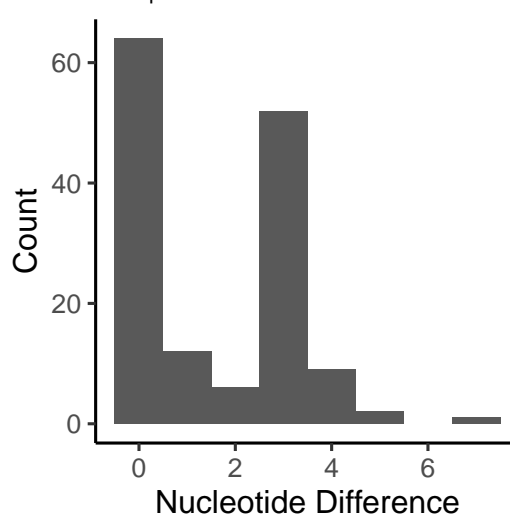
### IGKV1-6\*01

47 sequences assigned  
24 (51.1%) exact matches, in which:  
18 unique CDR3  
4 unique J



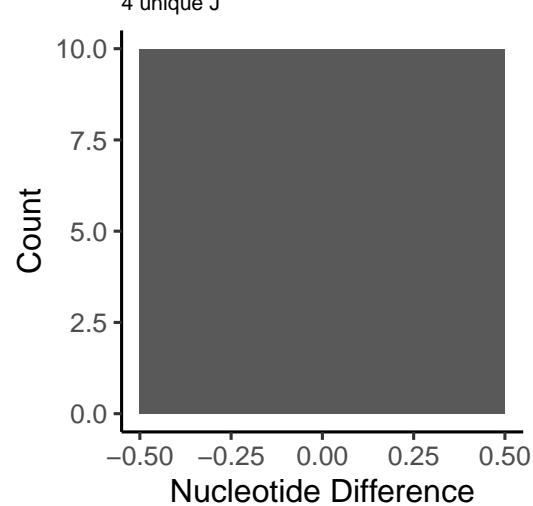
### IGKV1-9\*01

146 sequences assigned  
64 (43.8%) exact matches, in which:  
60 unique CDR3  
5 unique J



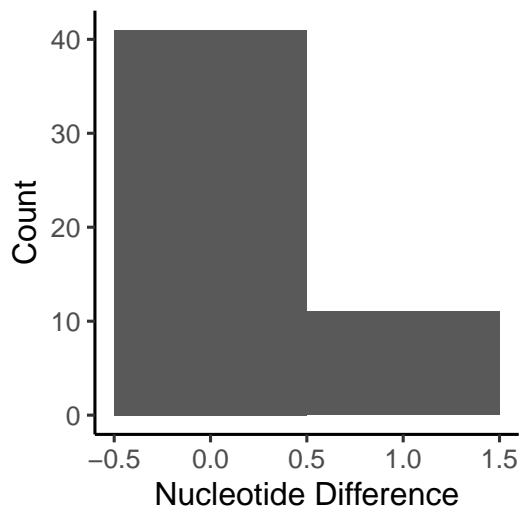
### IGKV1-17\*03

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



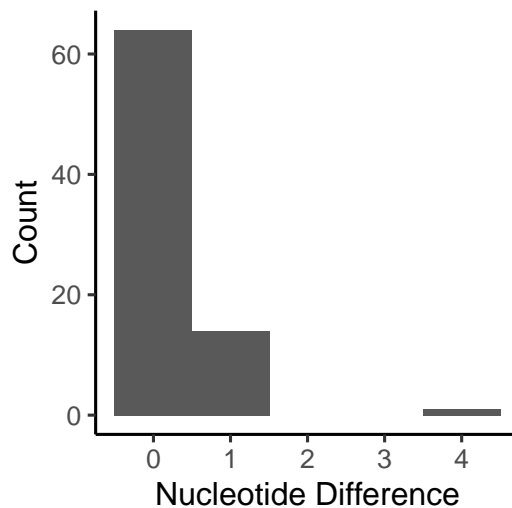
### IGKV1-27\*01

52 sequences assigned  
41 (78.8%) exact matches, in which:  
37 unique CDR3  
5 unique J



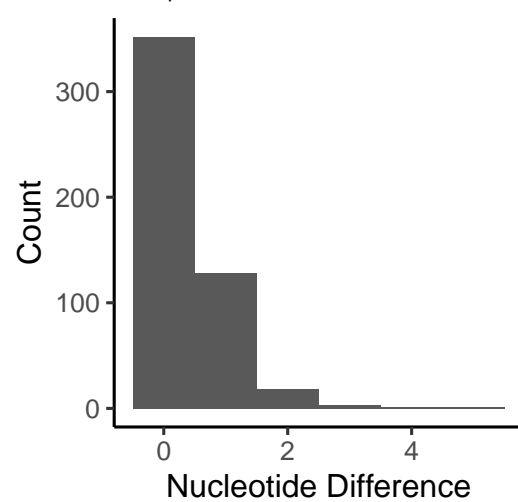
### IGKV2-30\*01

81 sequences assigned  
64 (79%) exact matches, in which:  
60 unique CDR3  
5 unique J



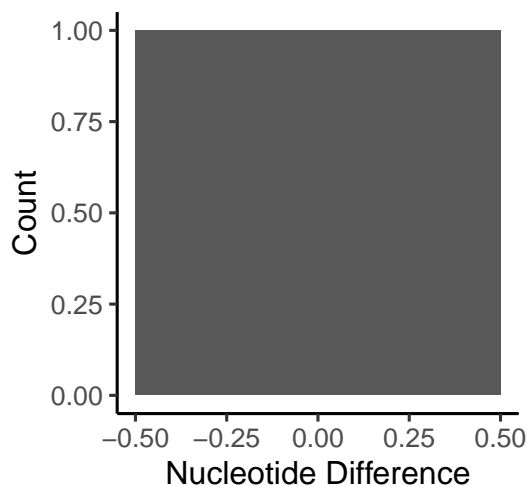
### IGKV3-11\*01

503 sequences assigned  
352 (70%) exact matches, in which:  
290 unique CDR3  
5 unique J



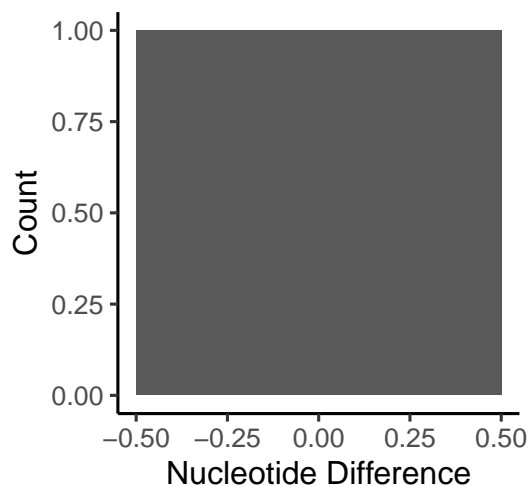
### IGKV2/OR22-4\*01

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



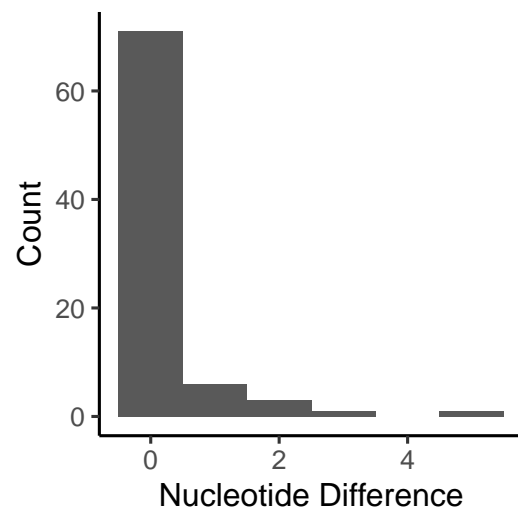
### IGKV1/OR2-108\*01

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



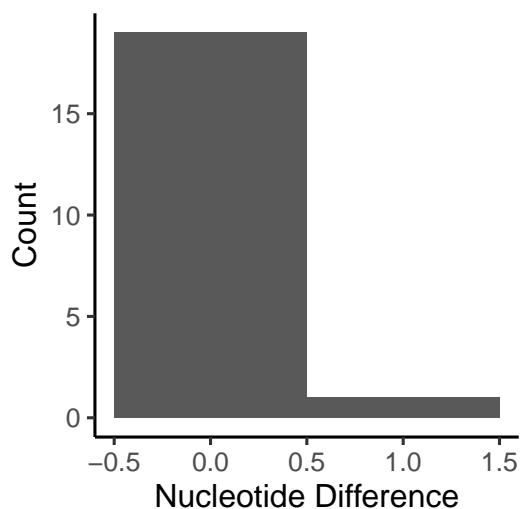
### IGKV3-11\*01\_A223C

82 sequences assigned  
71 (86.6%) exact matches, in which:  
71 unique CDR3  
5 unique J



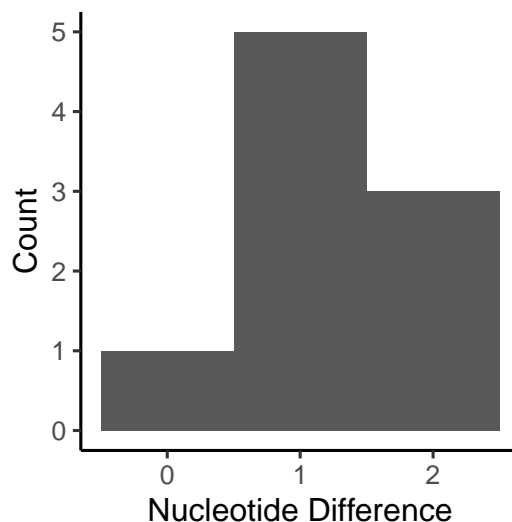
### IGKV2-24\*01

20 sequences assigned  
19 (95%) exact matches, in which:  
19 unique CDR3  
5 unique J



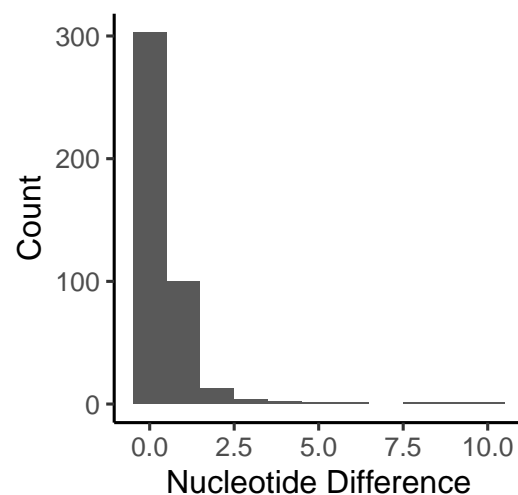
### IGKV3-7\*04

9 sequences assigned  
1 (11.1%) exact matches, in which:  
1 unique CDR3  
1 unique J



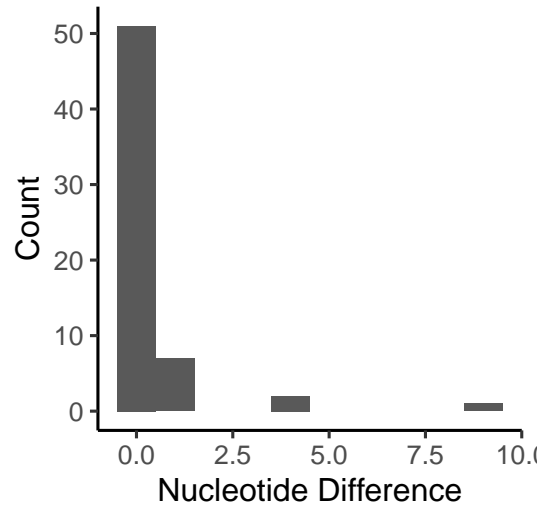
### IGKV3-15\*01

427 sequences assigned  
303 (71%) exact matches, in which:  
237 unique CDR3  
5 unique J



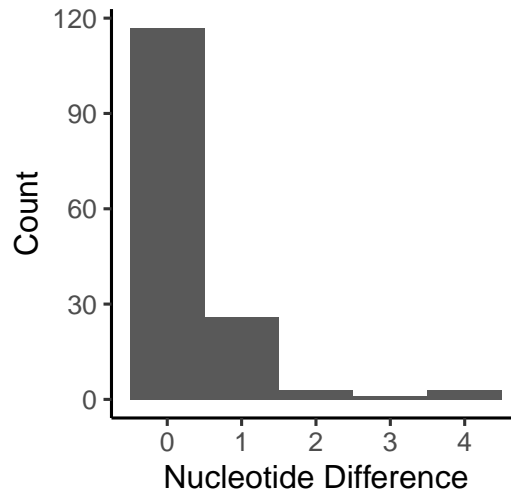
### IGKV3-15\*01\_A223C

61 sequences assigned  
51 (83.6%) exact matches, in which:  
50 unique CDR3  
5 unique J



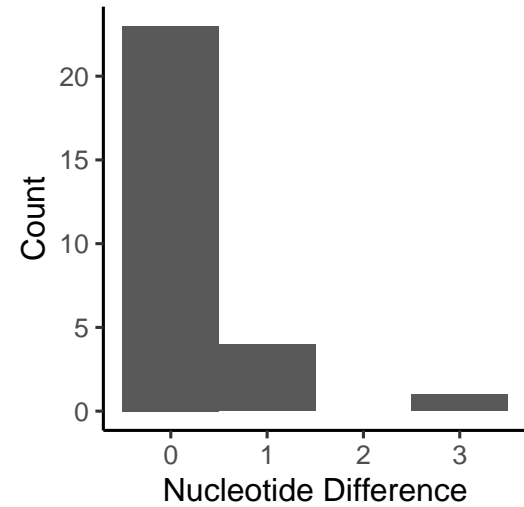
### IGKV4-1\*01\_A318G

150 sequences assigned  
117 (78%) exact matches, in which:  
102 unique CDR3  
5 unique J



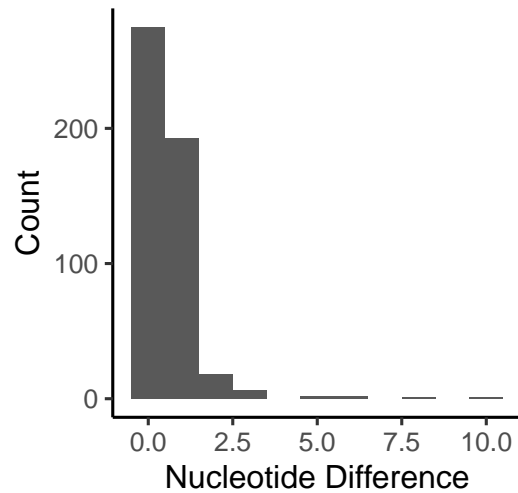
### IGKV1D-8\*01

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



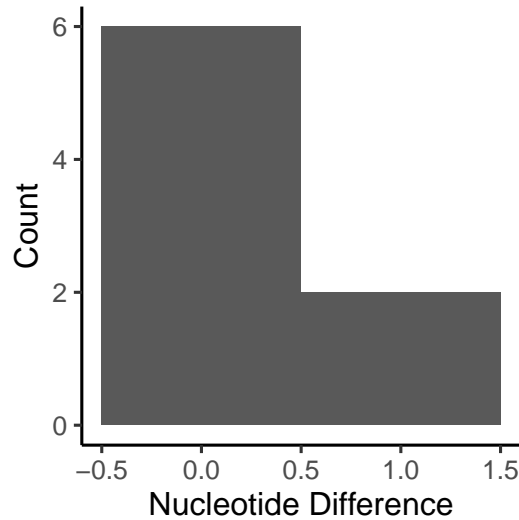
### IGKV3-20\*01

498 sequences assigned  
275 (55.2%) exact matches, in which:  
238 unique CDR3  
5 unique J



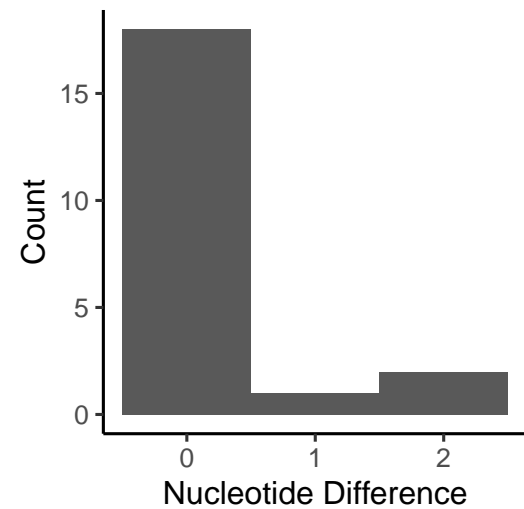
### IGKV5-2\*01

8 sequences assigned  
6 (75%) exact matches, in which:  
6 unique CDR3  
3 unique J



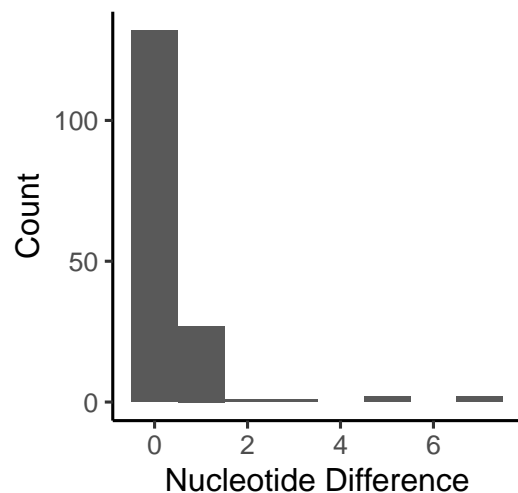
### IGKV1D-8\*03

21 sequences assigned  
18 (85.7%) exact matches, in which:  
17 unique CDR3  
4 unique J



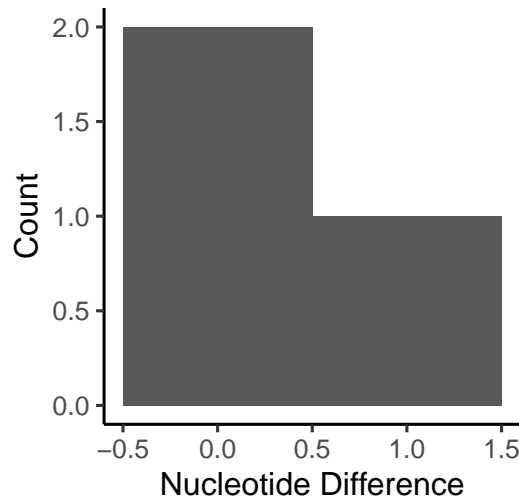
### IGKV4-1\*01

165 sequences assigned  
132 (80%) exact matches, in which:  
114 unique CDR3  
5 unique J



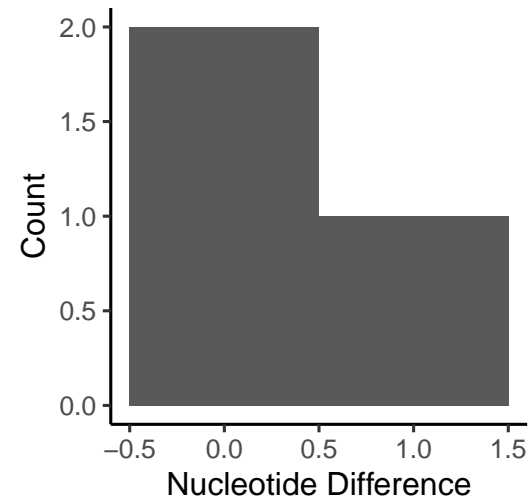
### IGKV3D-7\*01

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



### IGKV3D-11\*01

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



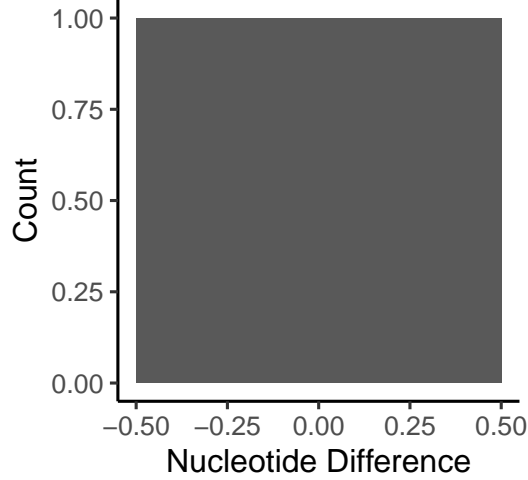
### IGKV3D-11\*02

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



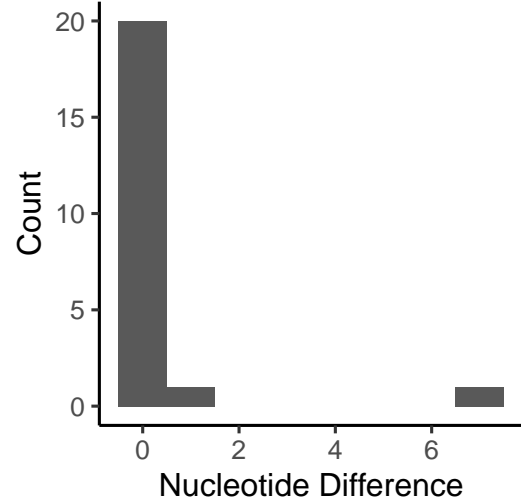
### IGKV1D-16\*02

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



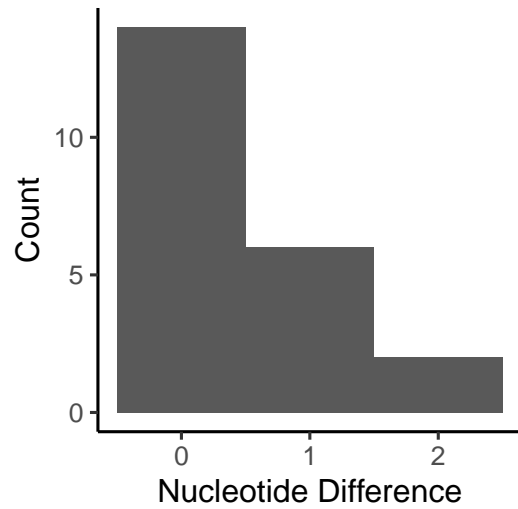
### IGKV2D-29\*01

22 sequences assigned  
20 (90.9%) exact matches, in which:  
18 unique CDR3  
5 unique J



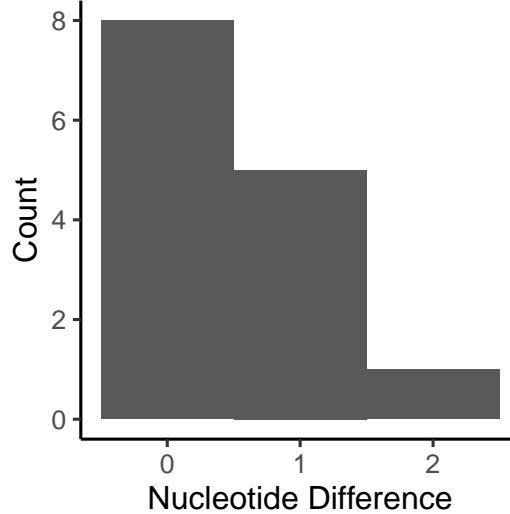
### IGKV3D-15\*01

22 sequences assigned  
14 (63.6%) exact matches, in which:  
12 unique CDR3  
5 unique J



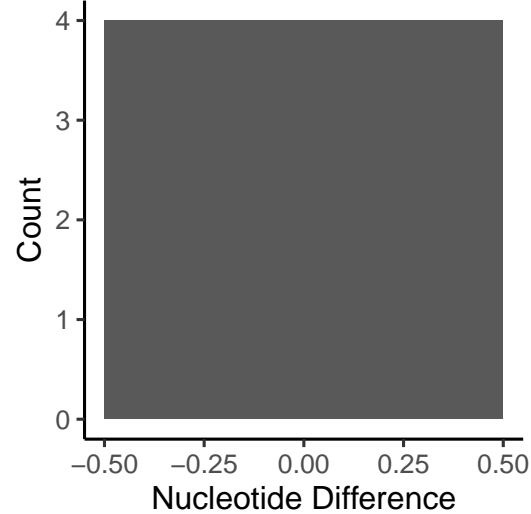
### IGKV3D-20\*01

14 sequences assigned  
8 (57.1%) exact matches, in which:  
8 unique CDR3  
4 unique J



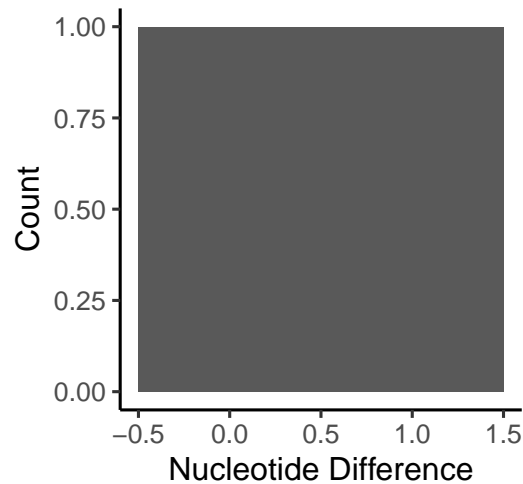
### IGKV2D-30\*01

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



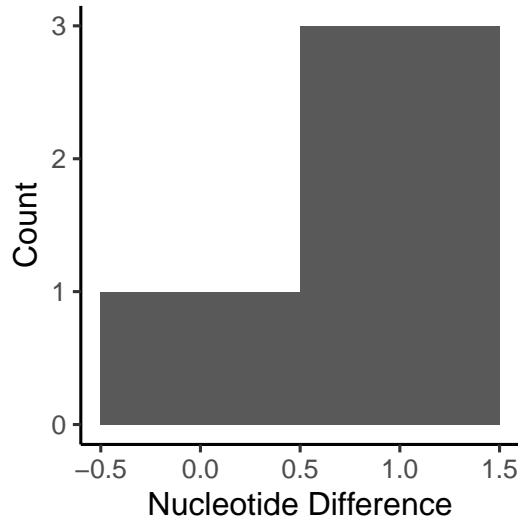
### IGKV1D-16\*01

2 sequences assigned  
1 (50%) exact matches, in which:  
1 unique CDR3  
1 unique J



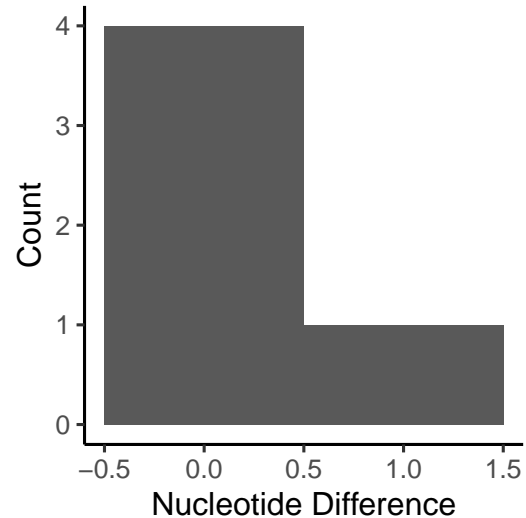
### IGKV2D-26\*03

4 sequences assigned  
1 (25%) exact matches, in which:  
1 unique CDR3  
1 unique J



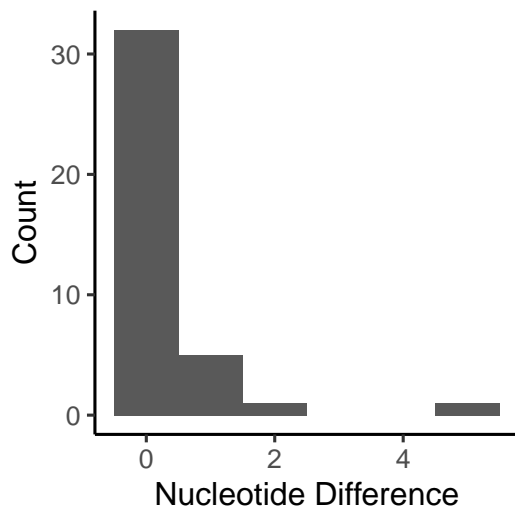
### IGKV1D-43\*01

5 sequences assigned  
4 (80%) exact matches, in which:  
4 unique CDR3  
3 unique J



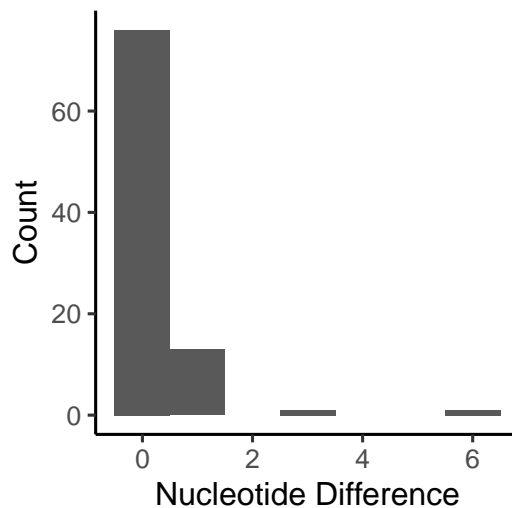
### IGKV1E-12\*01

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



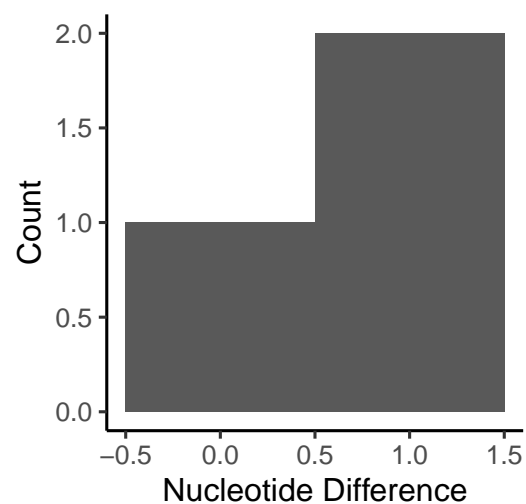
### IGKV1E-13\*02

91 sequences assigned  
76 (83.5%) exact matches, in which:  
67 unique CDR3  
5 unique J



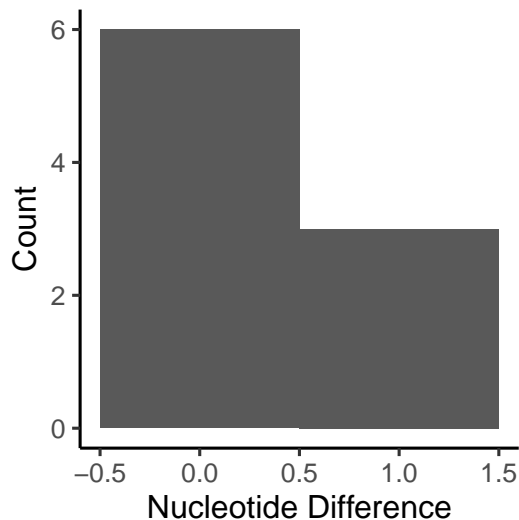
### IGKV6E-21\*03

3 sequences assigned  
1 (33.3%) exact matches, in which:  
1 unique CDR3  
1 unique J



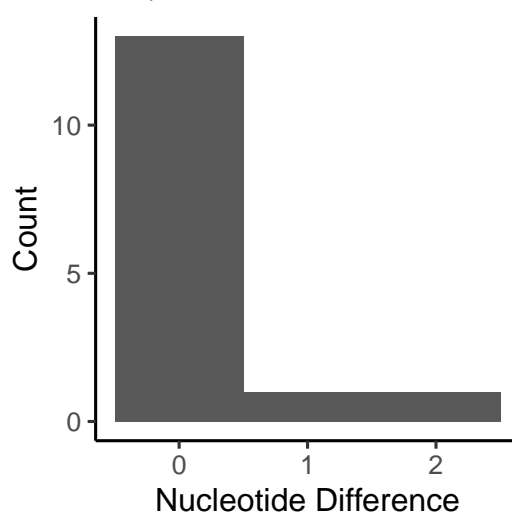
### IGKV1E-12\*02

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



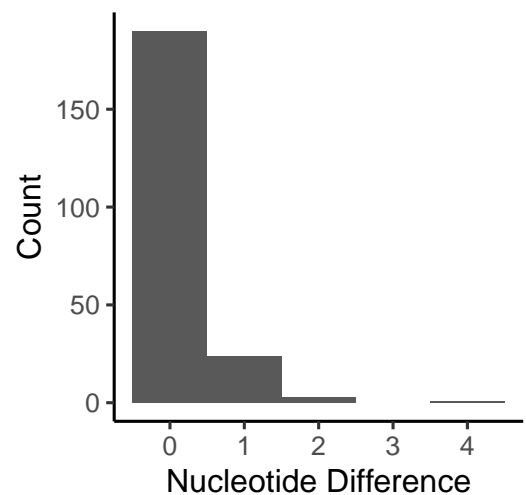
### IGKV1E-13\*03

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



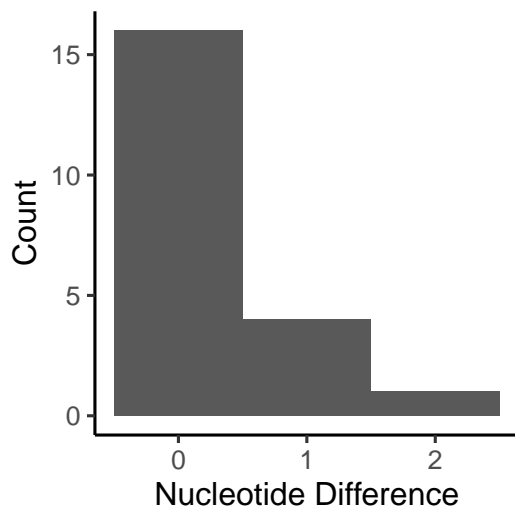
### IGKV2E-28\*01

218 sequences assigned  
190 (87.2%) exact matches, in which:  
166 unique CDR3  
5 unique J



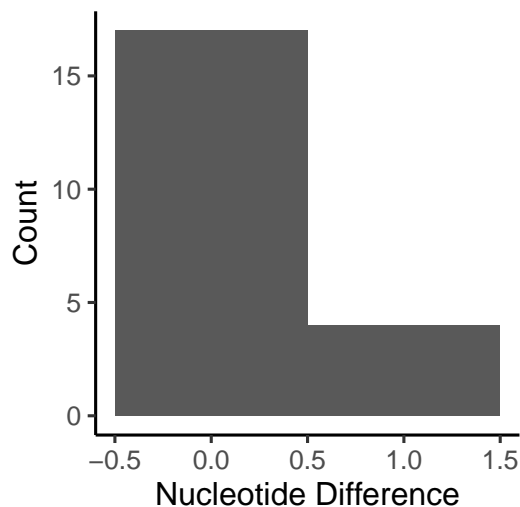
### IGKV1E-12\*03

21 sequences assigned  
16 (76.2%) exact matches, in which:  
15 unique CDR3  
4 unique J



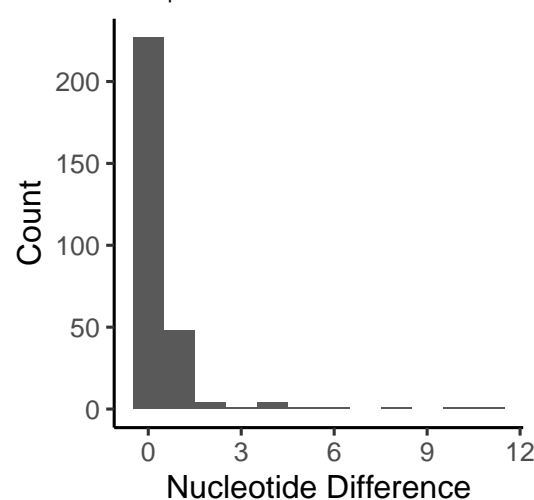
### IGKV6E-21\*01

21 sequences assigned  
17 (81%) exact matches, in which:  
16 unique CDR3  
5 unique J



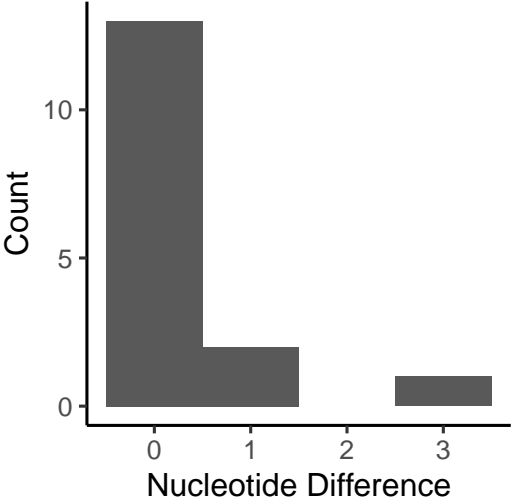
### IGKV1E-33\*01

289 sequences assigned  
227 (78.5%) exact matches, in which:  
193 unique CDR3  
5 unique J



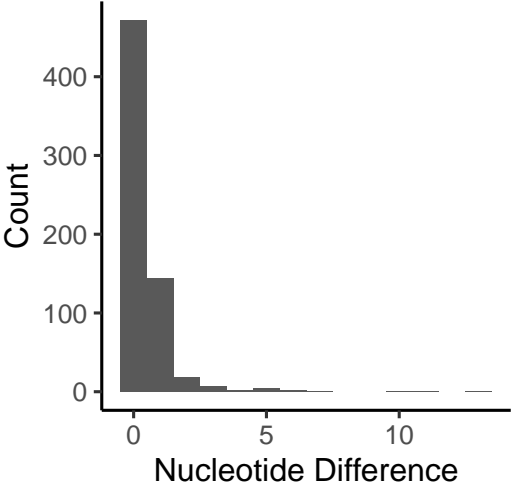
### IGKV1E-37\*01

16 sequences assigned  
13 (81.2%) exact matches, in which:  
13 unique CDR3  
5 unique J



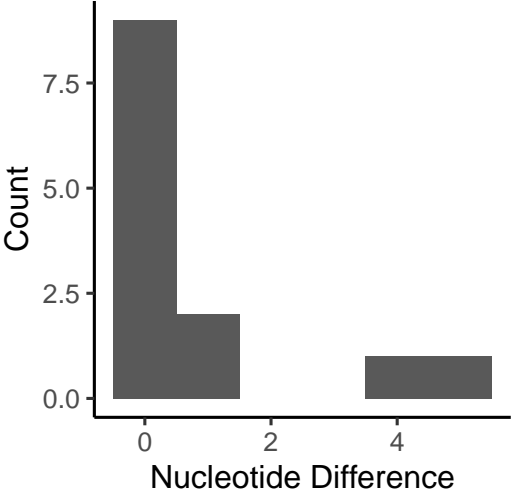
### IGKV1E-39\*01

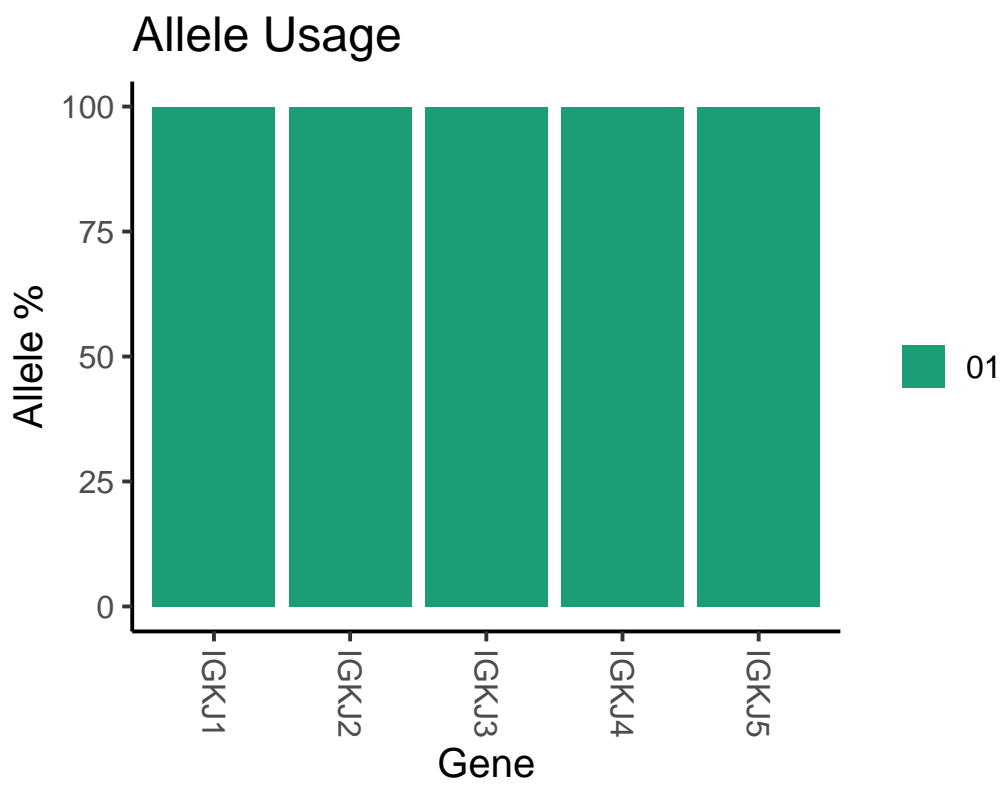
654 sequences assigned  
472 (72.2%) exact matches, in which:  
380 unique CDR3  
5 unique J



### IGKV2E-40\*01

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





Warning – no inferred sequences found.