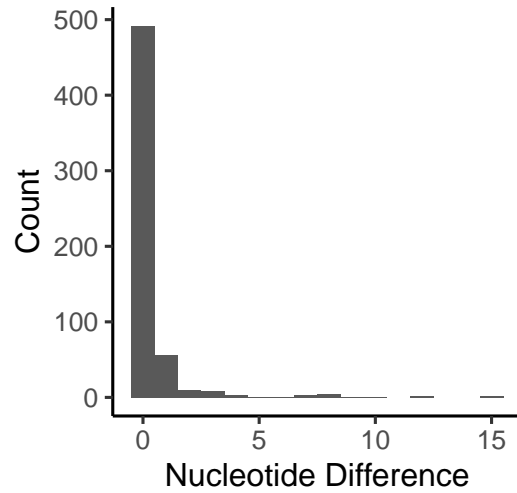


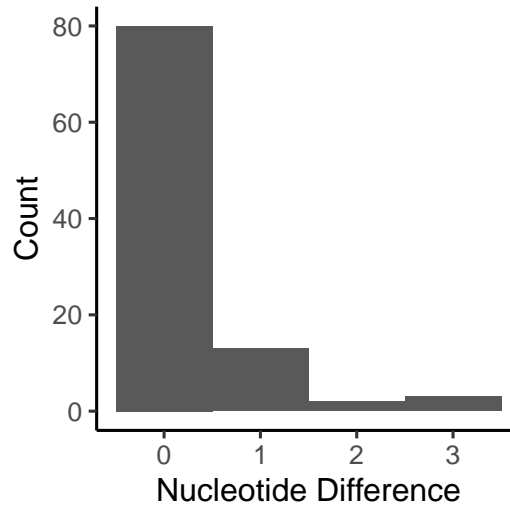
### IGKV1-5\*03

584 sequences assigned  
492 (84.2%) exact matches, in which:  
443 unique CDR3  
6 unique J



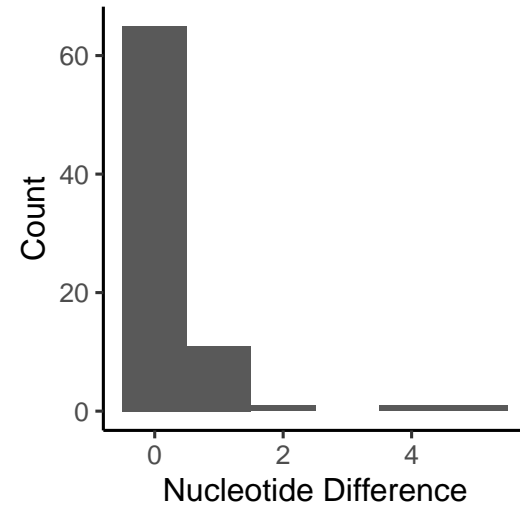
### IGKV1-8\*01\_T258C

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



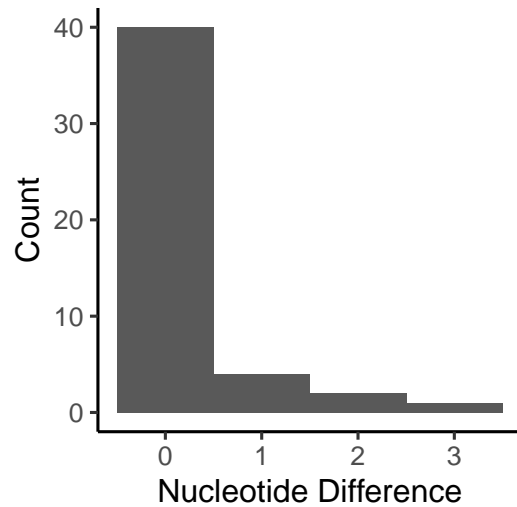
### IGKV1-16\*02

79 sequences assigned  
65 (82.3%) exact matches, in which:  
55 unique CDR3  
6 unique J



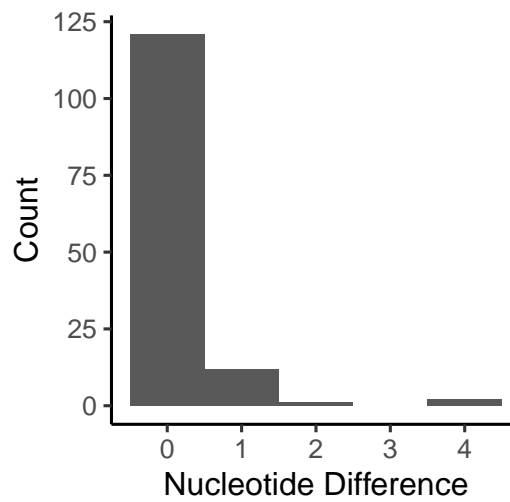
### IGKV1-6\*01

47 sequences assigned  
40 (85.1%) exact matches, in which:  
34 unique CDR3  
5 unique J



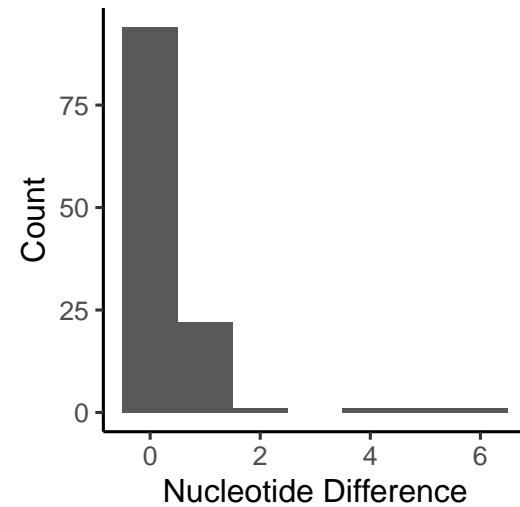
### IGKV1-9\*01

136 sequences assigned  
121 (89%) exact matches, in which:  
118 unique CDR3  
6 unique J



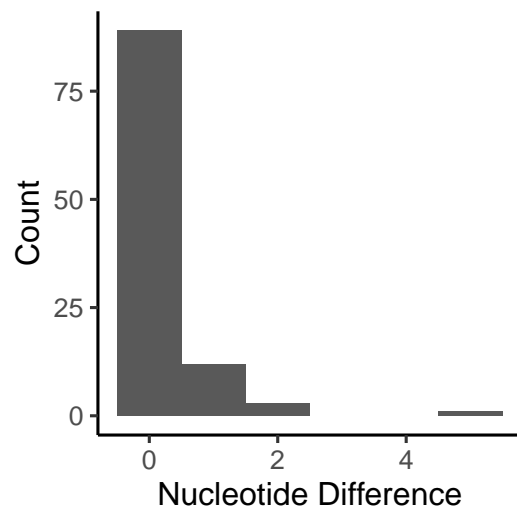
### IGKV1-17\*01

120 sequences assigned  
94 (78.3%) exact matches, in which:  
79 unique CDR3  
6 unique J



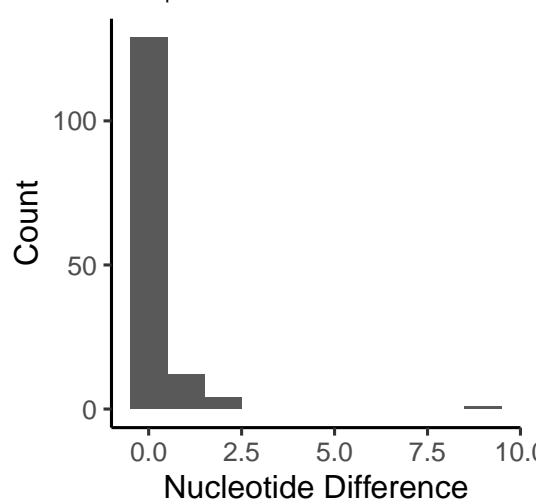
### IGKV1-8\*01

105 sequences assigned  
89 (84.8%) exact matches, in which:  
72 unique CDR3  
5 unique J



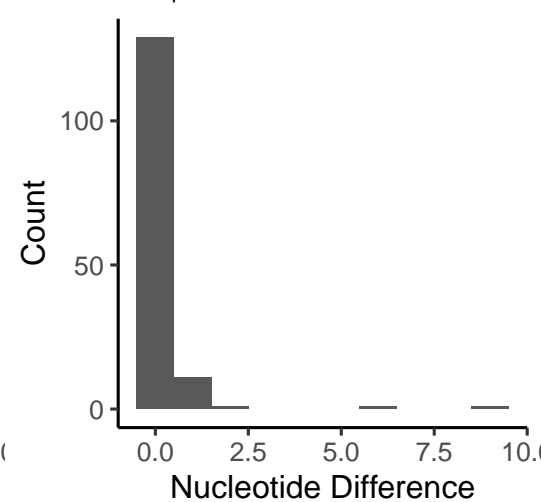
### IGKV1-9\*01\_C70T

146 sequences assigned  
129 (88.4%) exact matches, in which:  
121 unique CDR3  
5 unique J



### IGKV1-27\*01

143 sequences assigned  
129 (90.2%) exact matches, in which:  
116 unique CDR3  
6 unique J



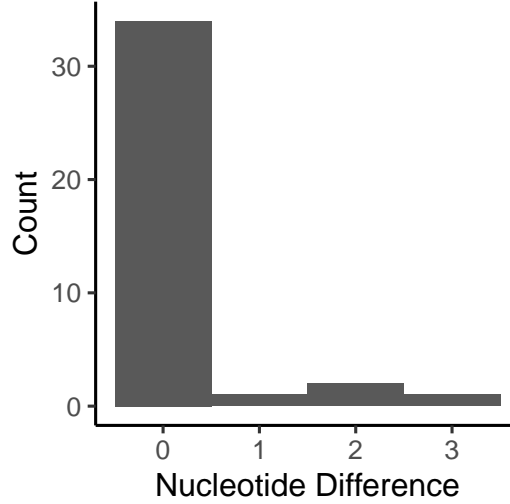
### IGKV1/OR2-1\*01

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



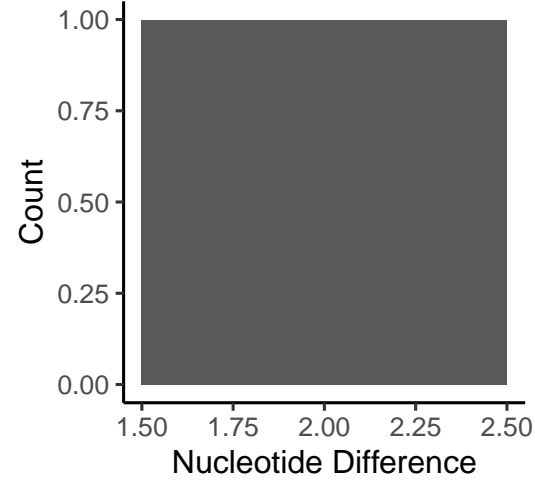
### IGKV2-24\*01

38 sequences assigned  
34 (89.5%) exact matches, in which:  
32 unique CDR3  
6 unique J



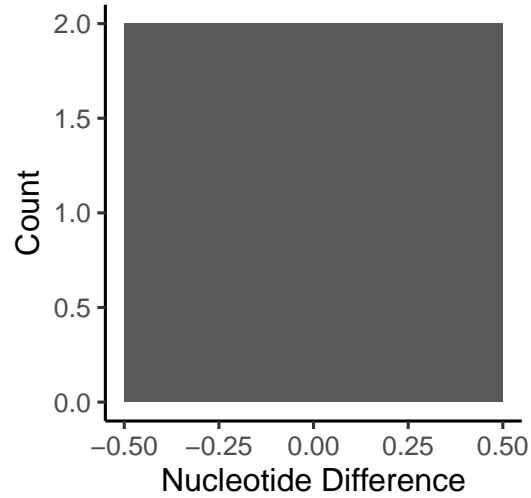
### IGKV3/OR2-268\*01

1 sequences assigned  
No exact matches.



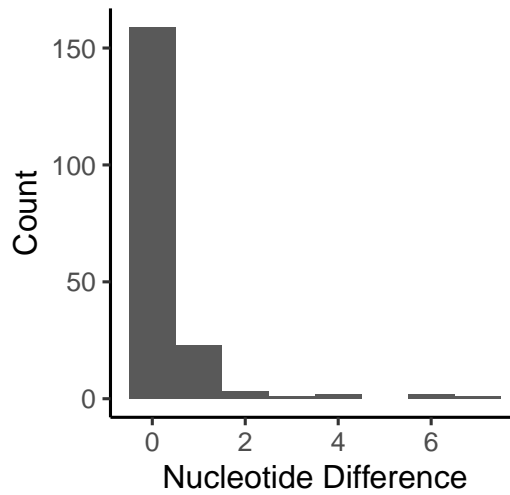
### IGKV2/OR22-4\*01

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



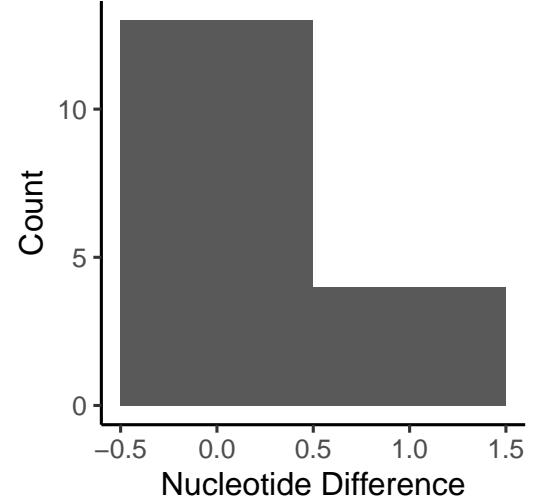
### IGKV2-30\*01

191 sequences assigned  
159 (83.2%) exact matches, in which:  
150 unique CDR3  
6 unique J



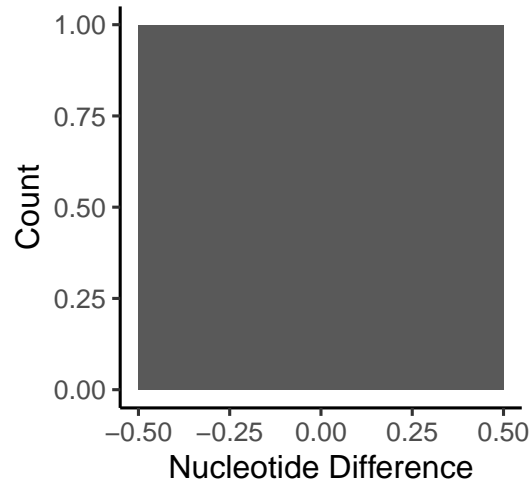
### IGKV3-7\*04

17 sequences assigned  
13 (76.5%) exact matches, in which:  
13 unique CDR3  
4 unique J



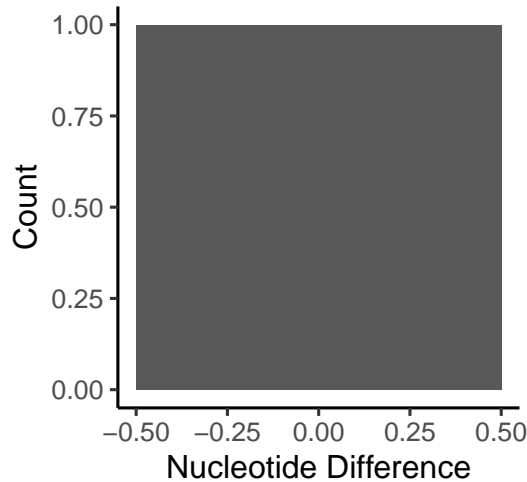
### IGKV2-18\*01

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



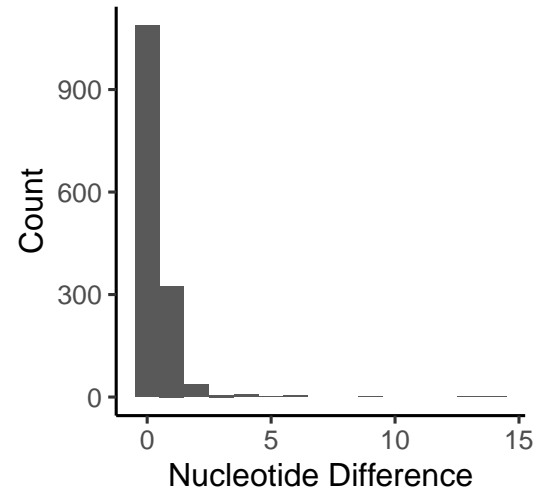
### IGKV1/OR2-108\*01

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



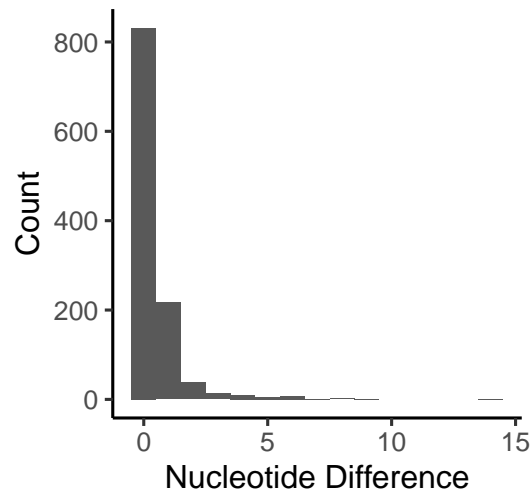
### IGKV3-11\*01

1474 sequences assigned  
1088 (73.8%) exact matches, in which:  
944 unique CDR3  
6 unique J



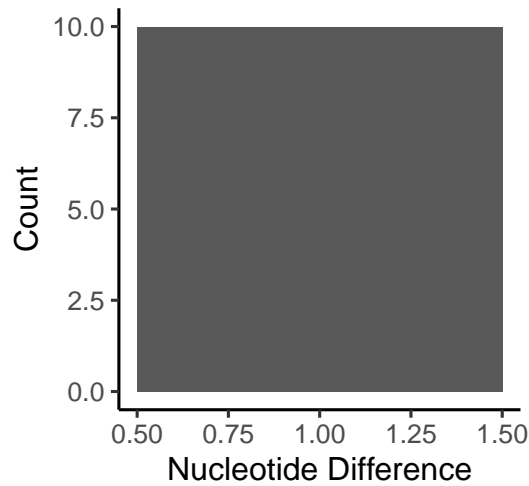
### IGKV3–15\*01

1127 sequences assigned  
832 (73.8%) exact matches, in which:  
746 unique CDR3  
6 unique J



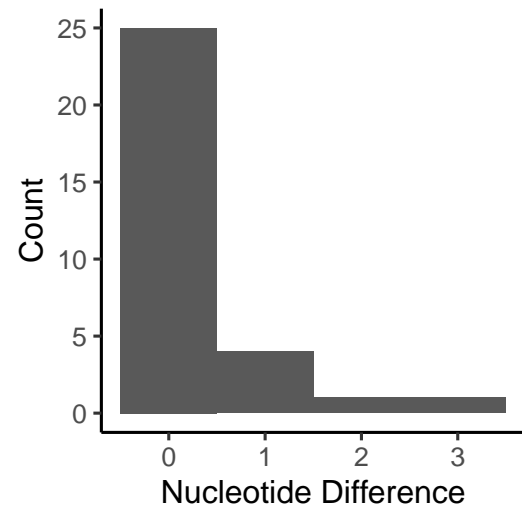
### IGKV5–2\*01

10 sequences assigned  
No exact matches.



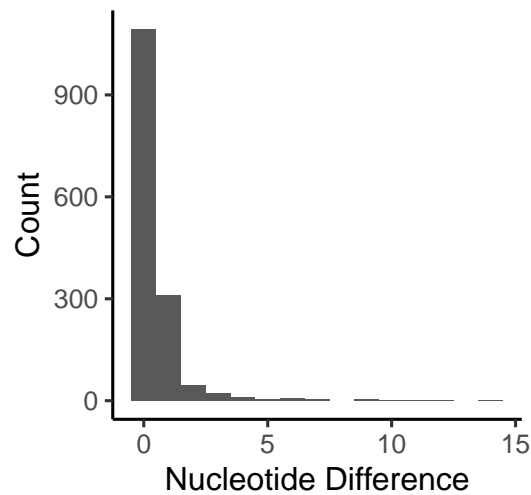
### IGKV1D–8\*02

31 sequences assigned  
25 (80.6%) exact matches, in which:  
23 unique CDR3  
3 unique J



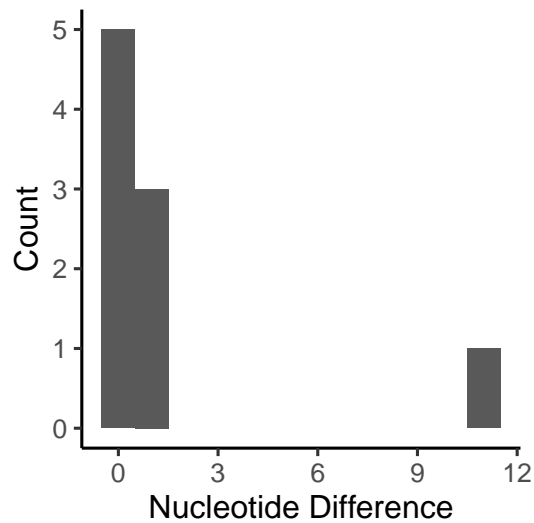
### IGKV3–20\*01

1506 sequences assigned  
1094 (72.6%) exact matches, in which:  
973 unique CDR3  
6 unique J



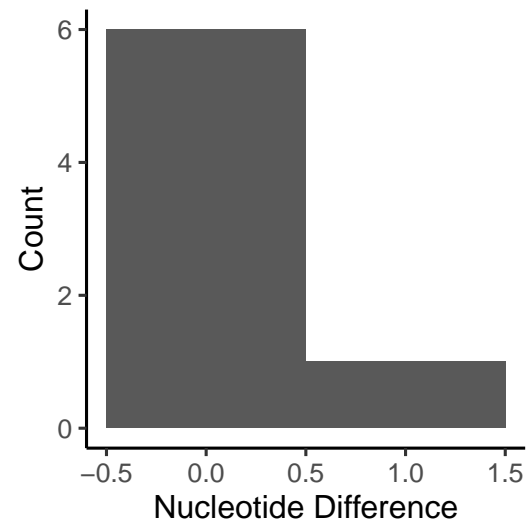
### IGKV3D–7\*01

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



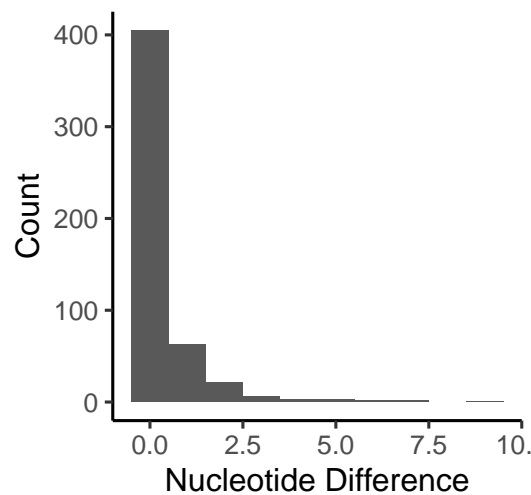
### IGKV3D–11\*01

7 sequences assigned  
6 (85.7%) exact matches, in which:  
6 unique CDR3  
2 unique J



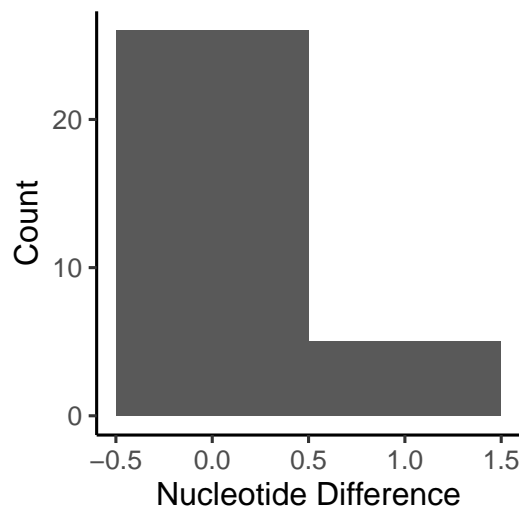
### IGKV4–1\*01

506 sequences assigned  
405 (80%) exact matches, in which:  
351 unique CDR3  
6 unique J



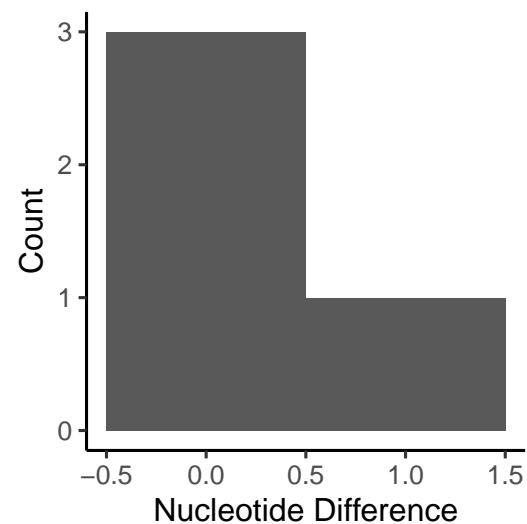
### IGKV1D–8\*01

31 sequences assigned  
26 (83.9%) exact matches, in which:  
23 unique CDR3  
5 unique J



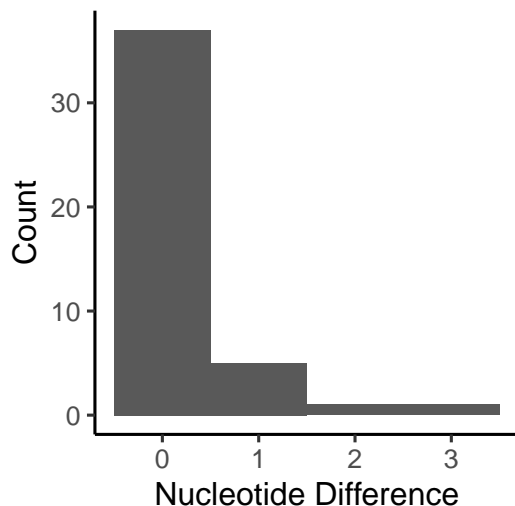
### IGKV3D–11\*02

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



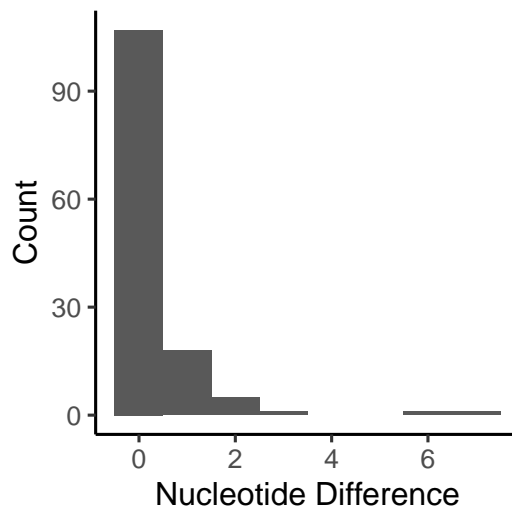
### IGKV3D-15\*01

44 sequences assigned  
37 (84.1%) exact matches, in which:  
37 unique CDR3  
5 unique J



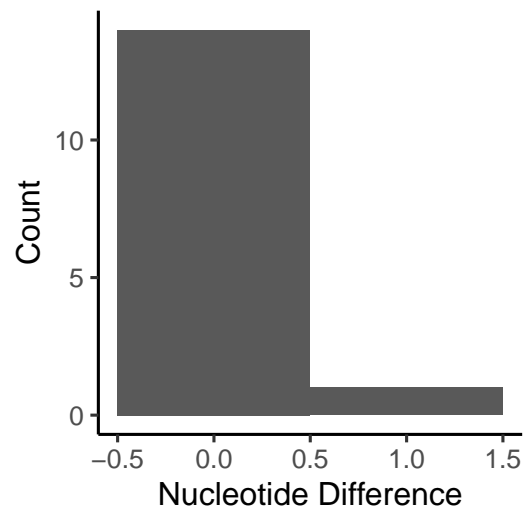
### IGKV3D-20\*01

133 sequences assigned  
107 (80.5%) exact matches, in which:  
100 unique CDR3  
6 unique J



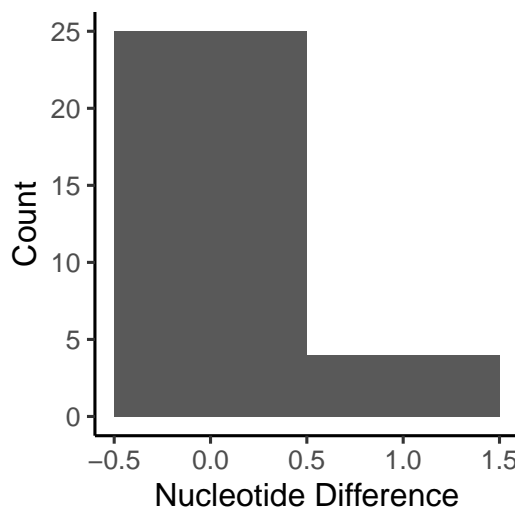
### IGKV2D-30\*01

15 sequences assigned  
14 (93.3%) exact matches, in which:  
13 unique CDR3  
6 unique J



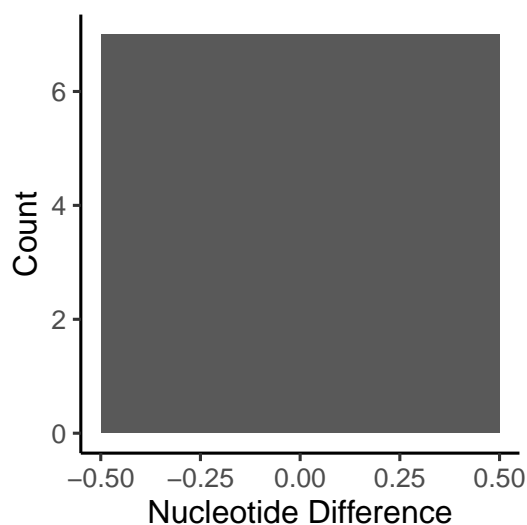
### IGKV3D-15\*03

29 sequences assigned  
25 (86.2%) exact matches, in which:  
25 unique CDR3  
5 unique J



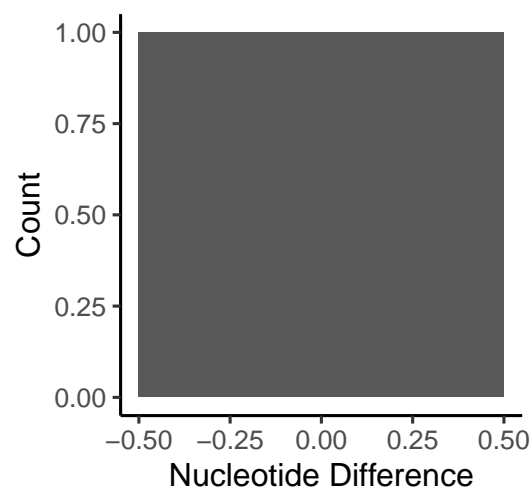
### IGKV2D-26\*03

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



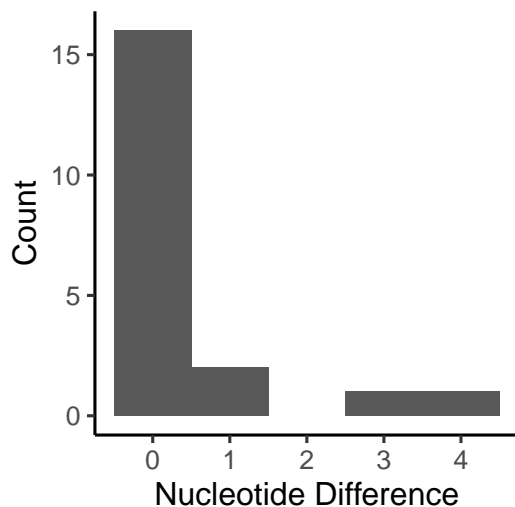
### IGKV6D-41\*01

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



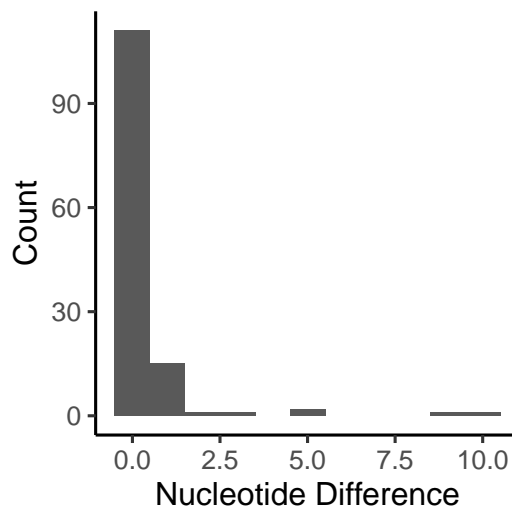
### IGKV1D-16\*01

20 sequences assigned  
16 (80%) exact matches, in which:  
16 unique CDR3  
5 unique J



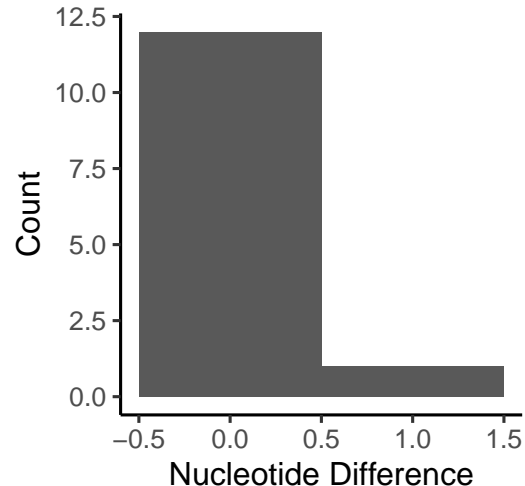
### IGKV2D-29\*01

132 sequences assigned  
111 (84.1%) exact matches, in which:  
107 unique CDR3  
6 unique J



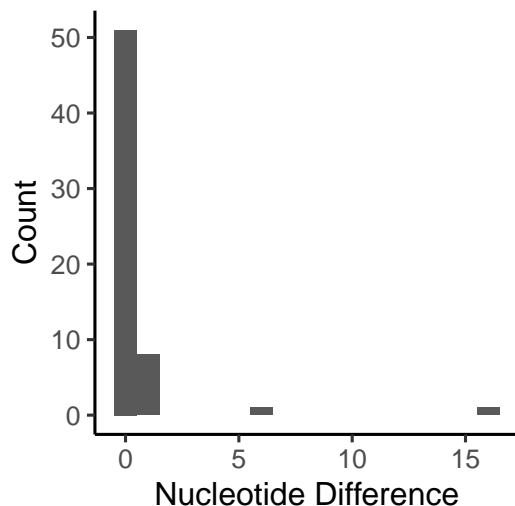
### IGKV1D-43\*01

13 sequences assigned  
12 (92.3%) exact matches, in which:  
12 unique CDR3  
5 unique J



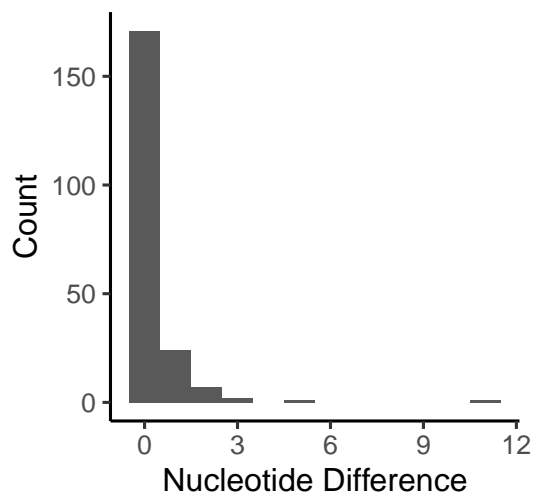
### IGKV1E-12\*01

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



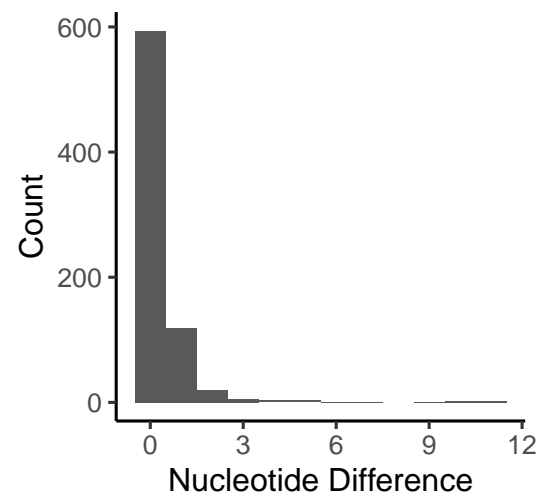
### IGKV1E-13\*02

206 sequences assigned  
171 (83%) exact matches, in which:  
152 unique CDR3  
5 unique J



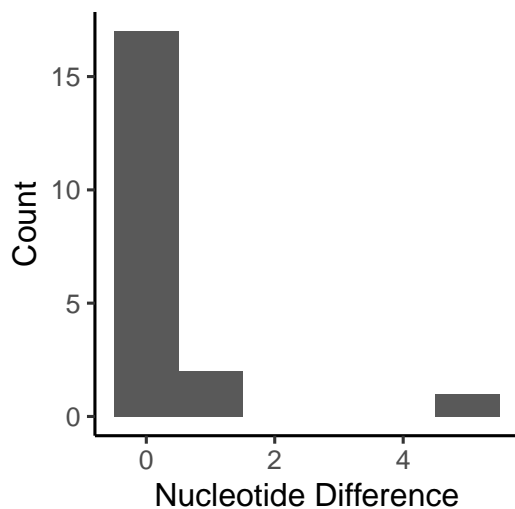
### IGKV2E-28\*01

752 sequences assigned  
594 (79%) exact matches, in which:  
520 unique CDR3  
6 unique J



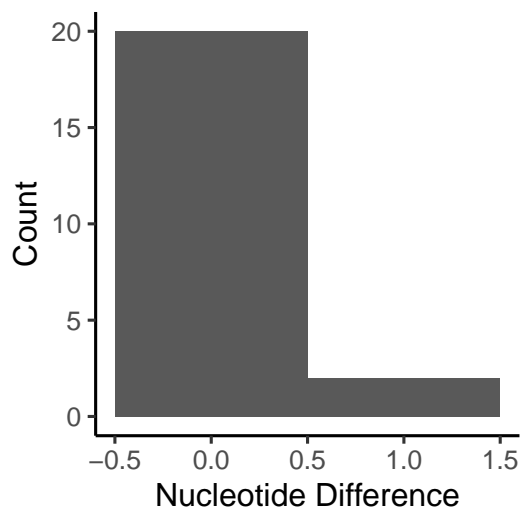
### IGKV1E-12\*02

20 sequences assigned  
17 (85%) exact matches, in which:  
16 unique CDR3  
6 unique J



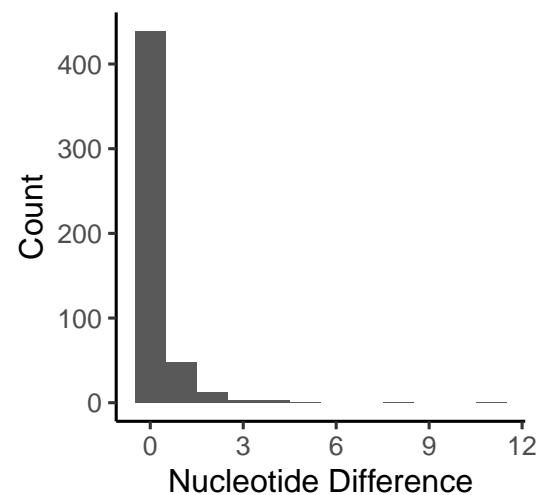
### IGKV6E-21\*01

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



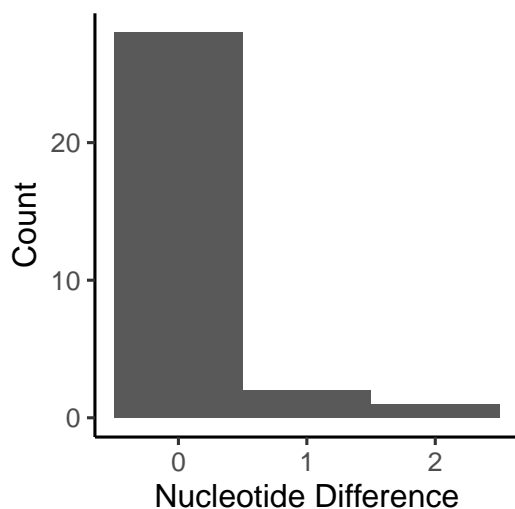
### IGKV1E-33\*01

508 sequences assigned  
439 (86.4%) exact matches, in which:  
387 unique CDR3  
6 unique J



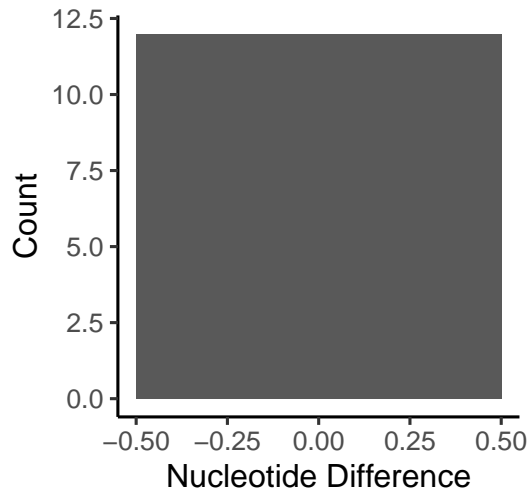
### IGKV1E-12\*03

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



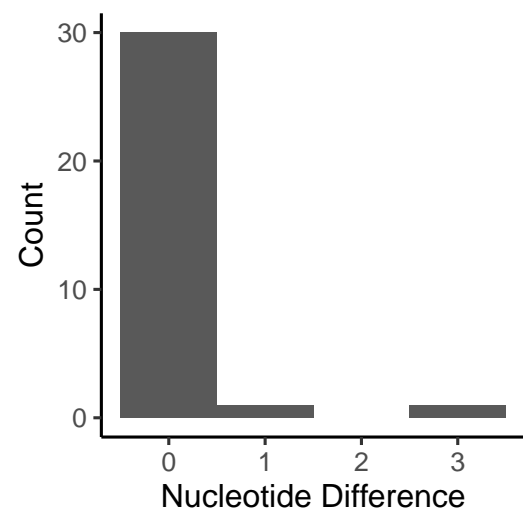
### IGKV6E-21\*03

12 sequences assigned  
12 (100%) exact matches, in which:  
12 unique CDR3  
5 unique J



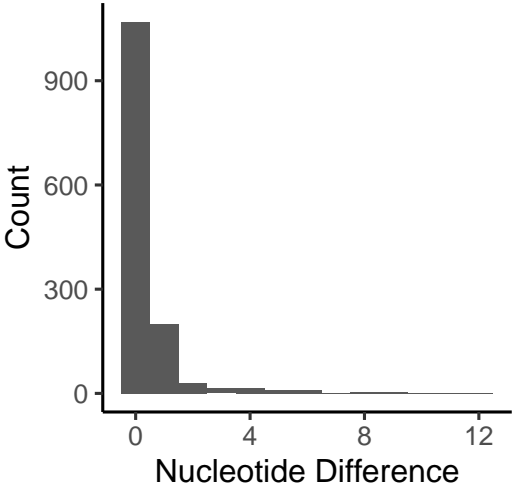
### IGKV1E-37\*01

32 sequences assigned  
30 (93.8%) exact matches, in which:  
30 unique CDR3  
6 unique J



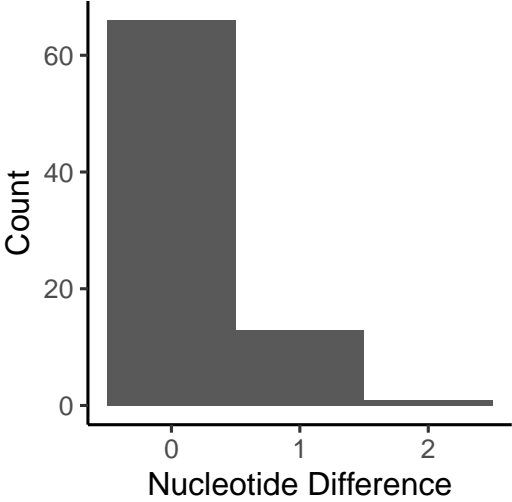
### IGKV1E-39\*01

1364 sequences assigned  
1070 (78.4%) exact matches, in which:  
909 unique CDR3  
6 unique J



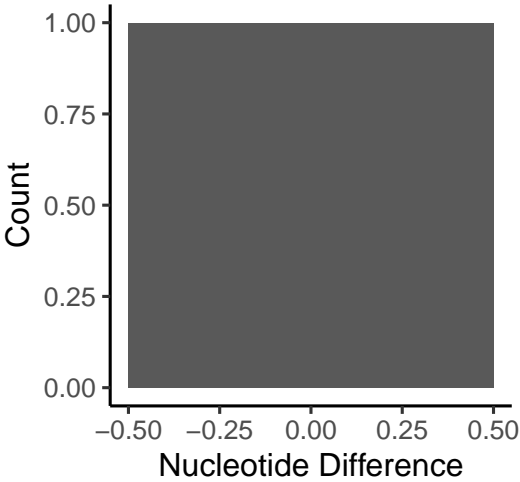
### IGKV2E-40\*01

80 sequences assigned  
66 (82.5%) exact matches, in which:  
55 unique CDR3  
6 unique J

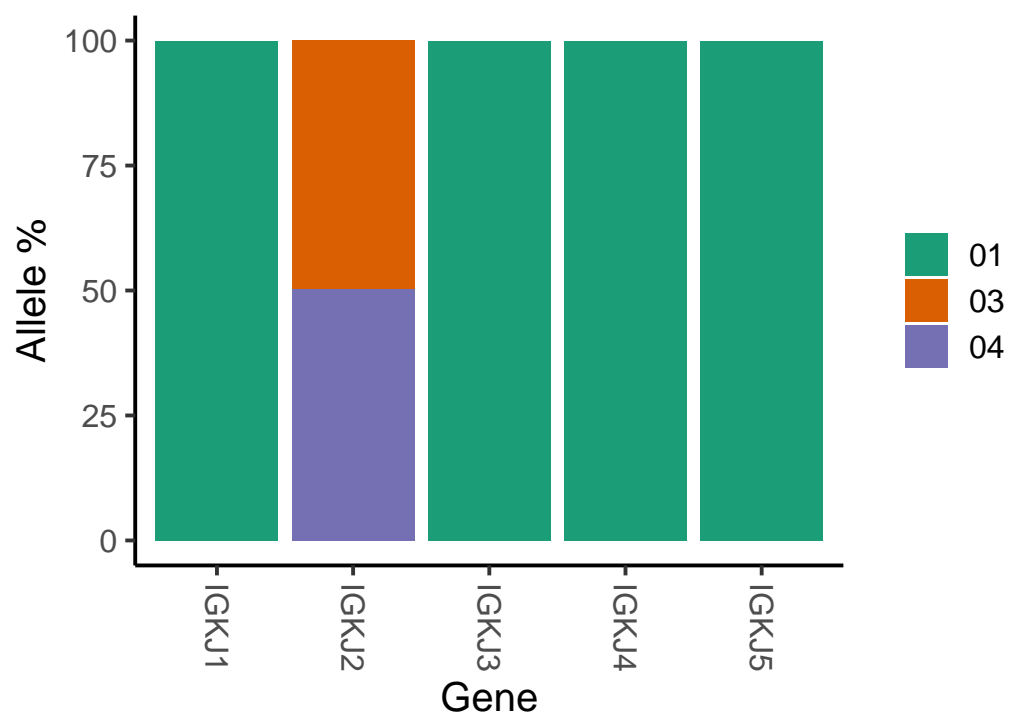


### IGKV1/ORY-1\*01

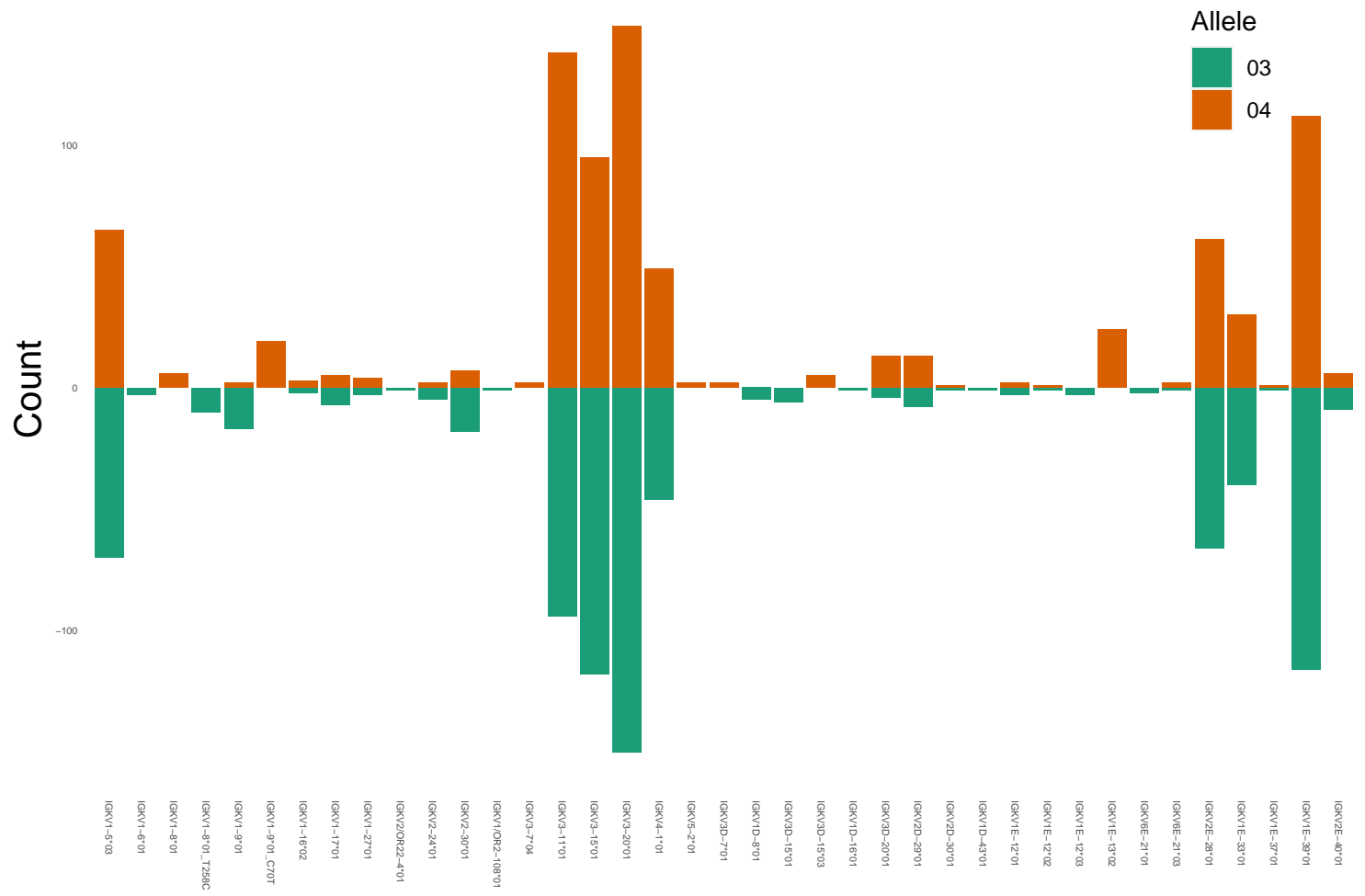
1 sequences assigned  
1 (100%) exact matches, in which:  
1 unique CDR3  
1 unique J



Allele Usage



## Sequence Count by IGKJ2 allele usage





Warning – no inferred sequences found.