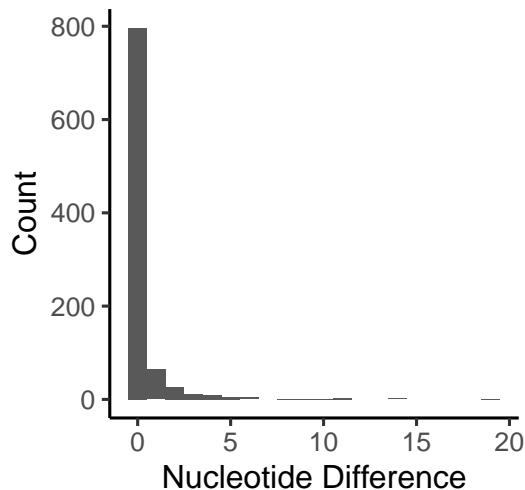


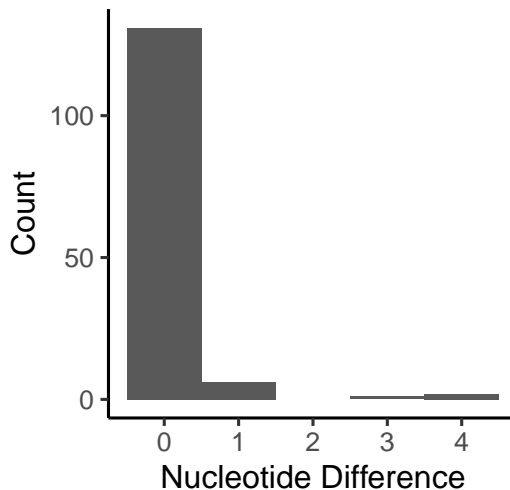
### IGKV1-5\*03

928 sequences assigned  
797 (85.9%) exact matches, in which:  
646 unique CDR3  
5 unique J



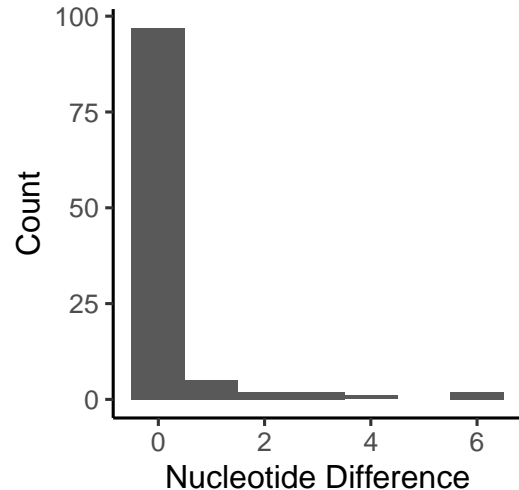
### IGKV1-8\*01\_C59A

140 sequences assigned  
131 (93.6%) exact matches, in which:  
114 unique CDR3  
5 unique J



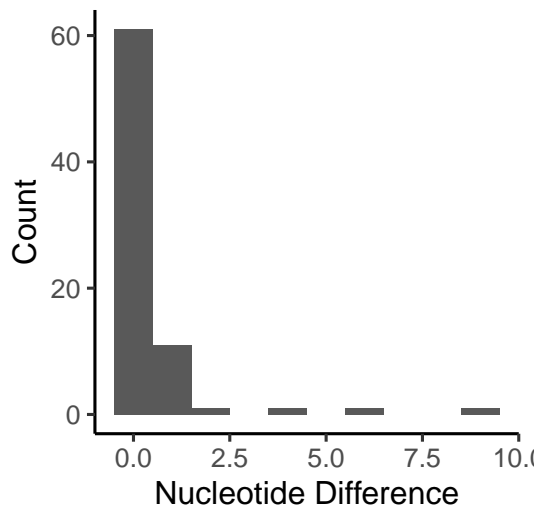
### IGKV1-17\*01

109 sequences assigned  
97 (89%) exact matches, in which:  
80 unique CDR3  
5 unique J



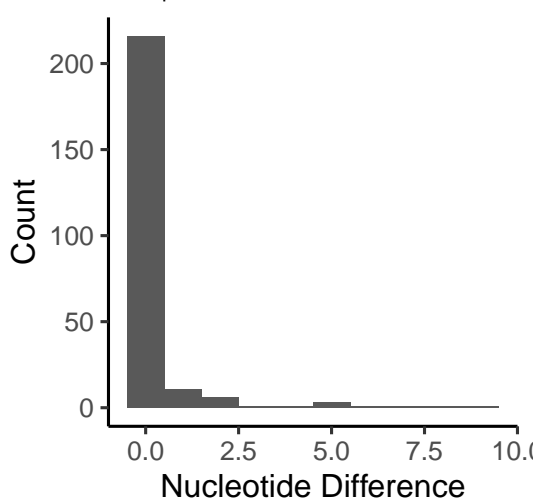
### IGKV1-6\*01

76 sequences assigned  
61 (80.3%) exact matches, in which:  
48 unique CDR3  
4 unique J



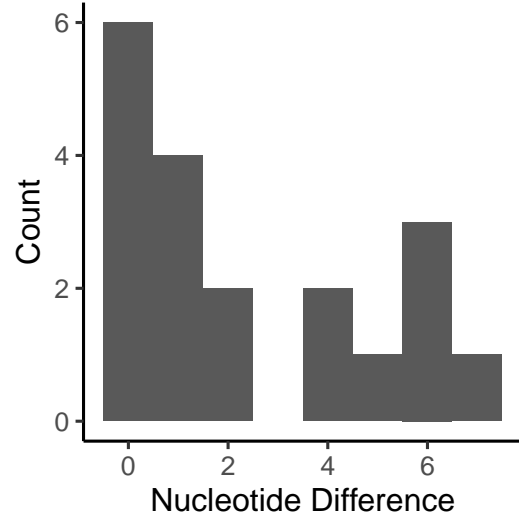
### IGKV1-9\*01

242 sequences assigned  
216 (89.3%) exact matches, in which:  
188 unique CDR3  
5 unique J



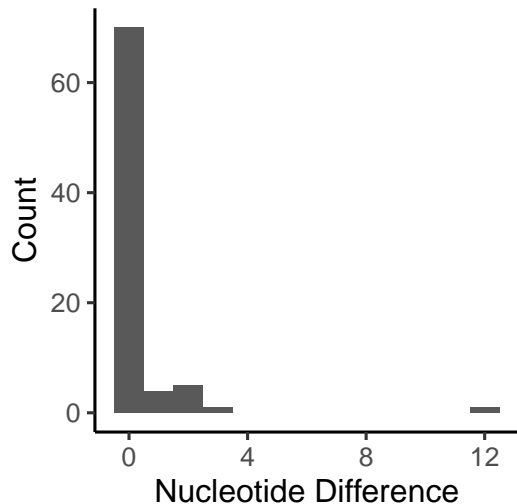
### IGKV1-17\*01\_T314A

19 sequences assigned  
6 (31.6%) exact matches, in which:  
6 unique CDR3  
2 unique J



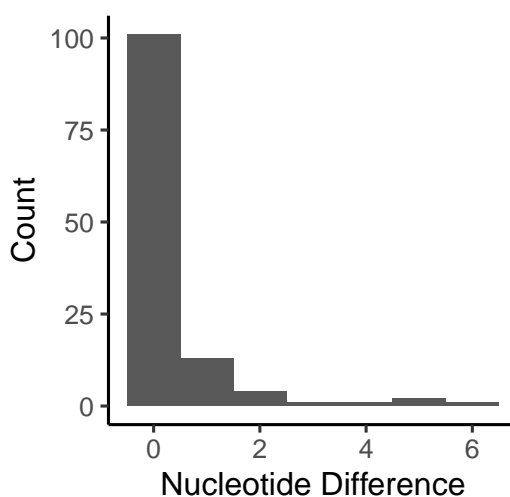
### IGKV1-8\*01

81 sequences assigned  
70 (86.4%) exact matches, in which:  
57 unique CDR3  
5 unique J



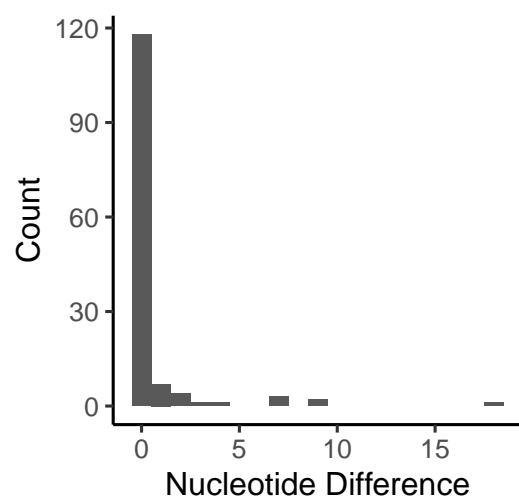
### IGKV1-16\*02

123 sequences assigned  
101 (82.1%) exact matches, in which:  
82 unique CDR3  
5 unique J



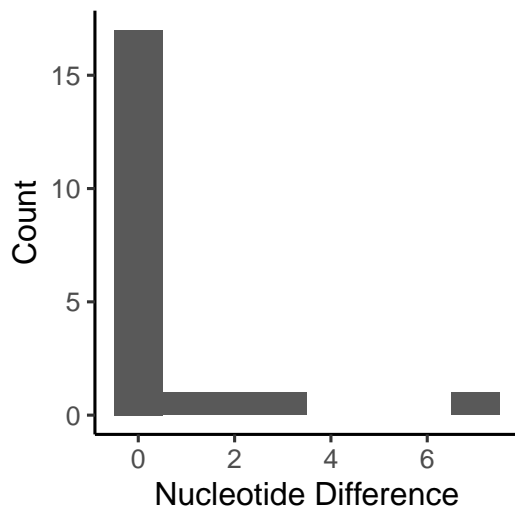
### IGKV1-27\*01

137 sequences assigned  
118 (86.1%) exact matches, in which:  
102 unique CDR3  
5 unique J



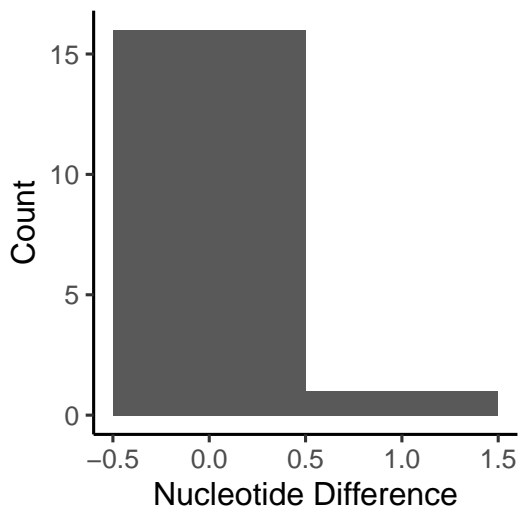
### IGKV2-24\*01

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



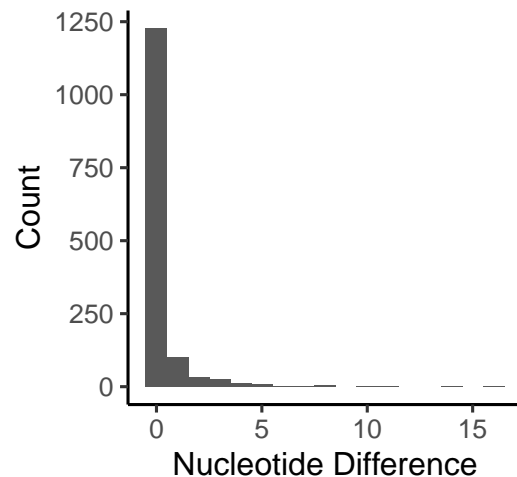
### IGKV3-7\*04

17 sequences assigned  
16 (94.1%) exact matches, in which:  
15 unique CDR3  
4 unique J



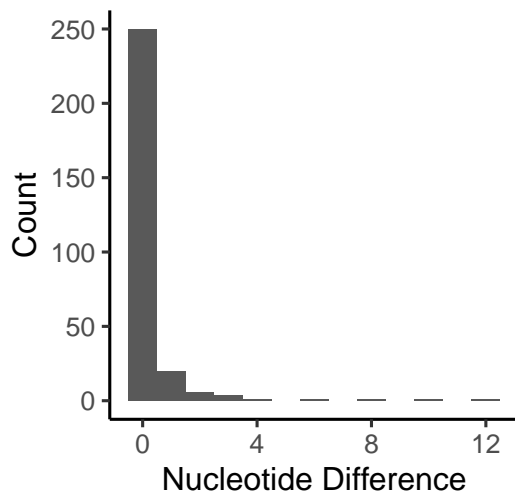
### IGKV3-20\*01

1425 sequences assigned  
1227 (86.1%) exact matches, in which:  
869 unique CDR3  
5 unique J



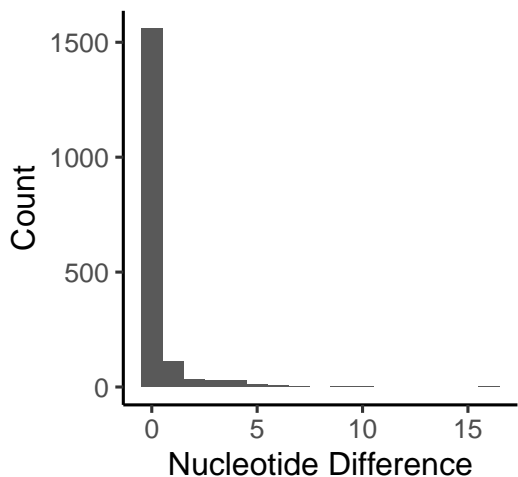
### IGKV2-30\*01

285 sequences assigned  
250 (87.7%) exact matches, in which:  
221 unique CDR3  
5 unique J



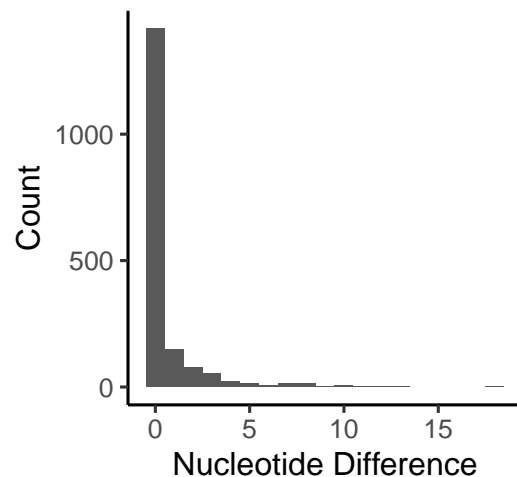
### IGKV3-11\*01

1787 sequences assigned  
1559 (87.2%) exact matches, in which:  
1119 unique CDR3  
5 unique J



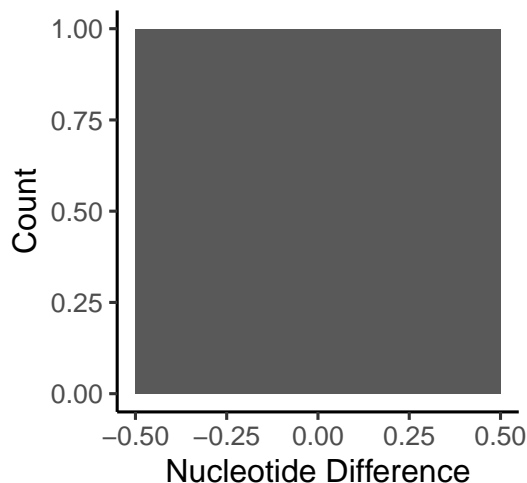
### IGKV4-1\*01

1785 sequences assigned  
1417 (79.4%) exact matches, in which:  
880 unique CDR3  
5 unique J



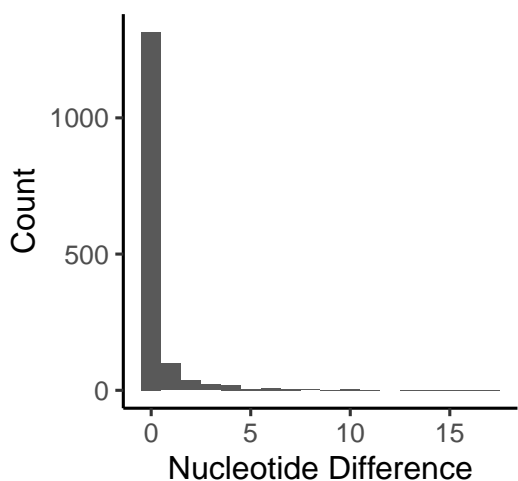
### IGKV1/OR2-108\*01

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



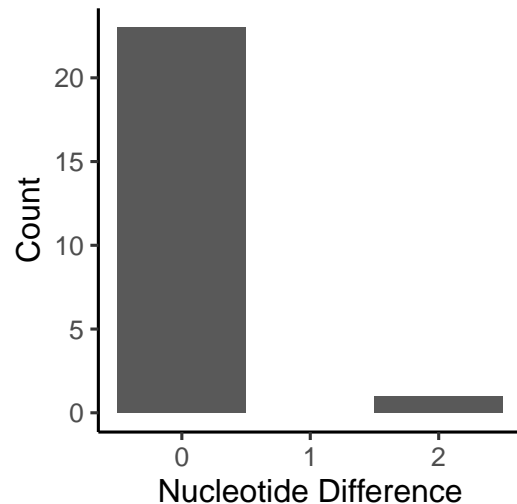
### IGKV3-15\*01

1527 sequences assigned  
1315 (86.1%) exact matches, in which:  
962 unique CDR3  
5 unique J



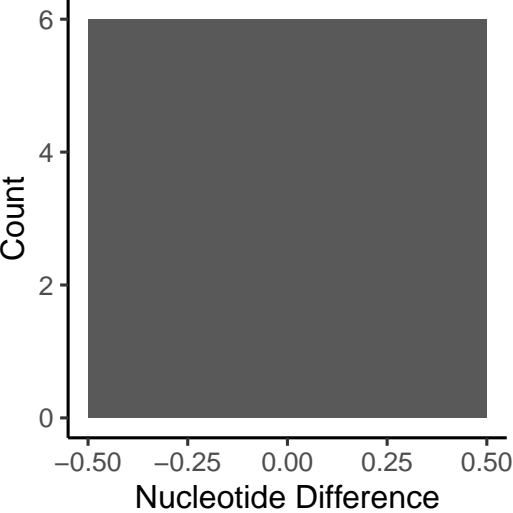
### IGKV5-2\*01

24 sequences assigned  
23 (95.8%) exact matches, in which:  
22 unique CDR3  
5 unique J



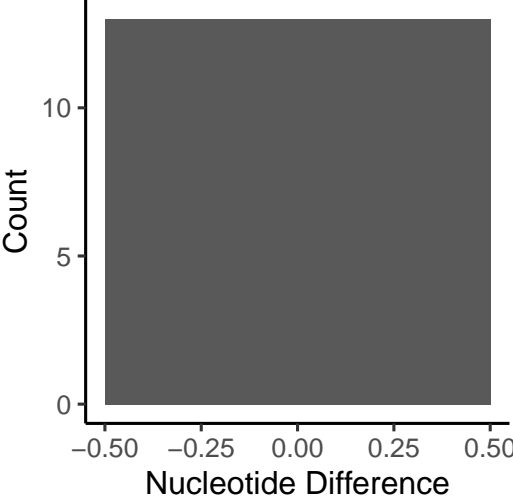
IGKV3D-7\*01

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



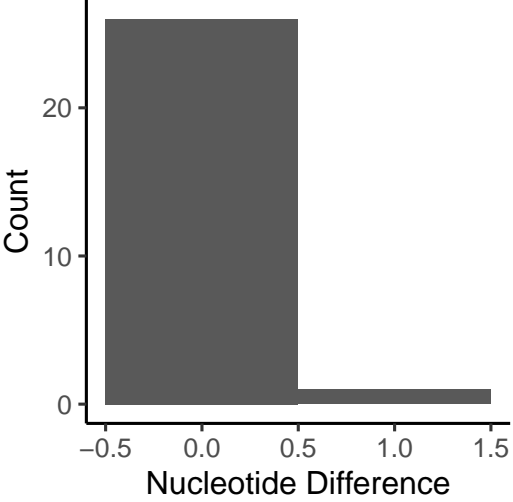
IGKV3D-11\*01

13 sequences assigned  
13 (100%) exact matches, in which:  
13 unique CDR3  
5 unique J



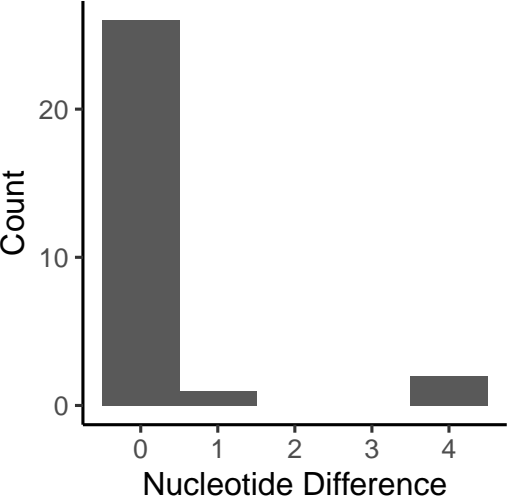
IGKV3D-15\*03

27 sequences assigned  
26 (96.3%) exact matches, in which:  
26 unique CDR3  
5 unique J



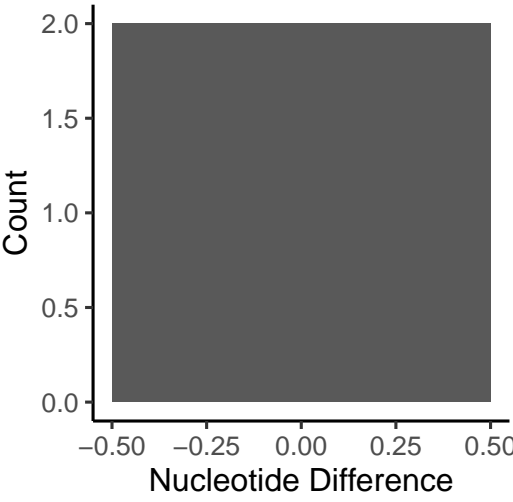
IGKV1D-8\*01

29 sequences assigned  
26 (89.7%) exact matches, in which:  
25 unique CDR3  
5 unique J



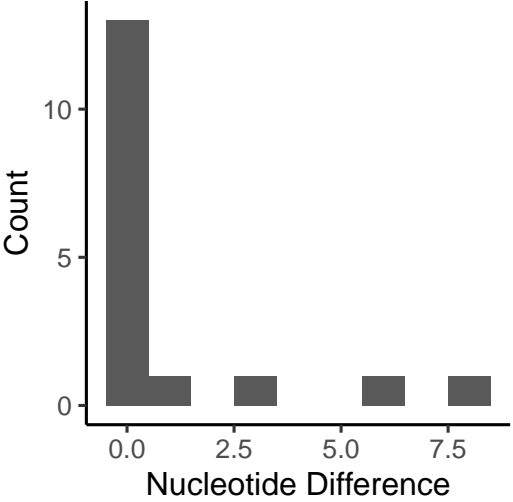
IGKV3D-11\*02

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



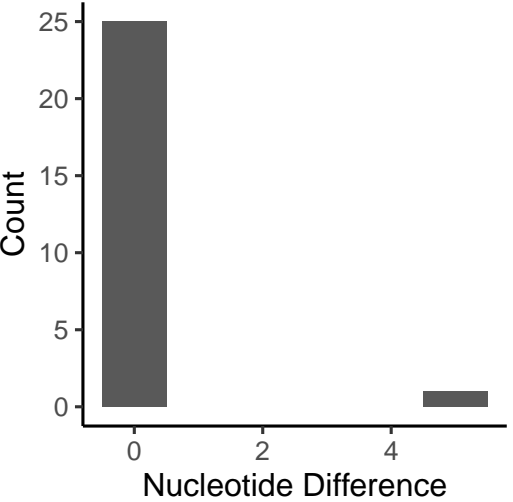
IGKV1D-16\*01

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



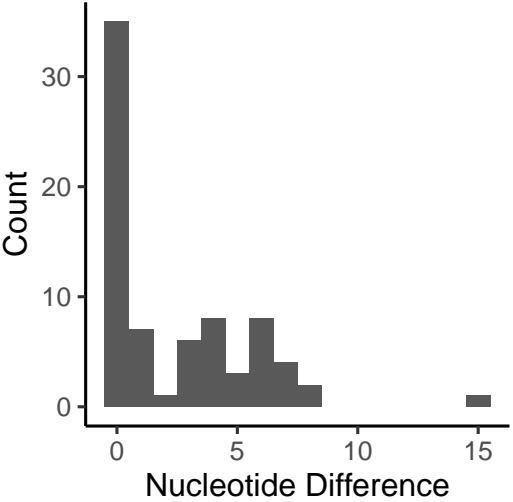
IGKV1D-8\*02

26 sequences assigned  
25 (96.2%) exact matches, in which:  
20 unique CDR3  
5 unique J



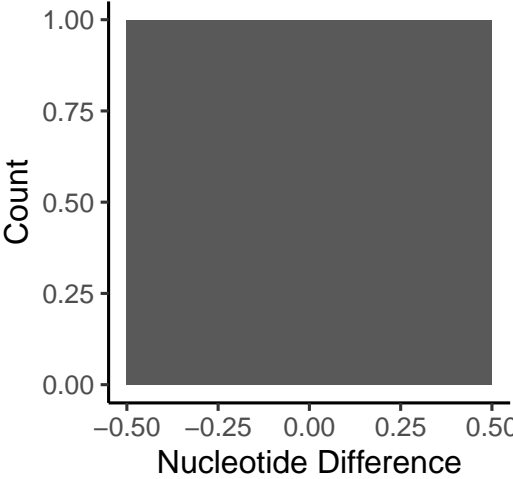
IGKV3D-15\*01

75 sequences assigned  
35 (46.7%) exact matches, in which:  
33 unique CDR3  
5 unique J



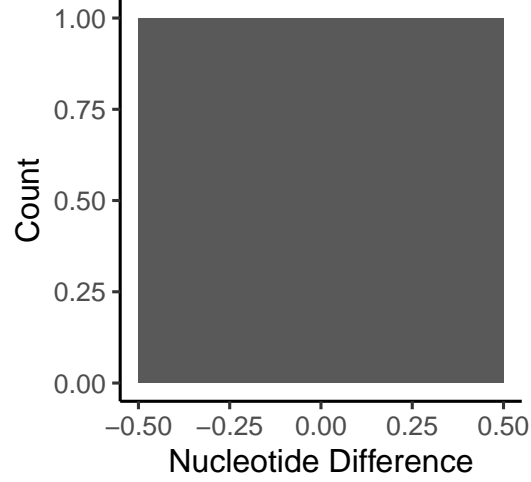
IGKV1D-17\*01

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



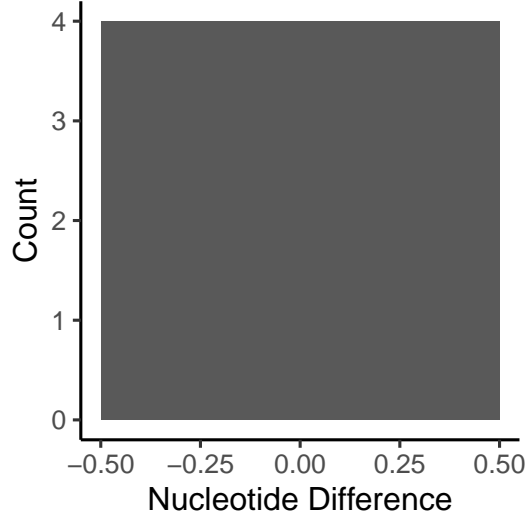
### IGKV2D-18\*01

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



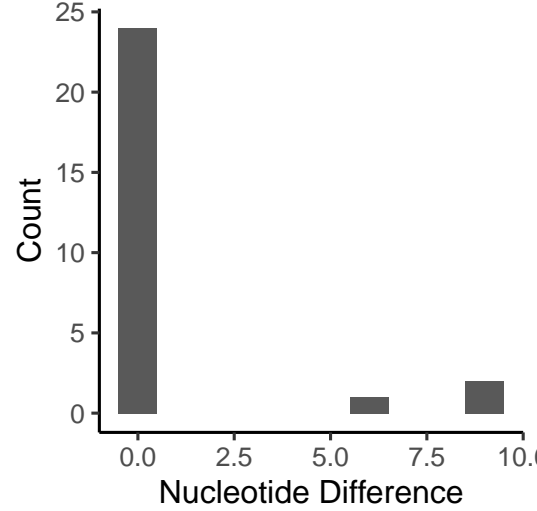
### IGKV2D-26\*03

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



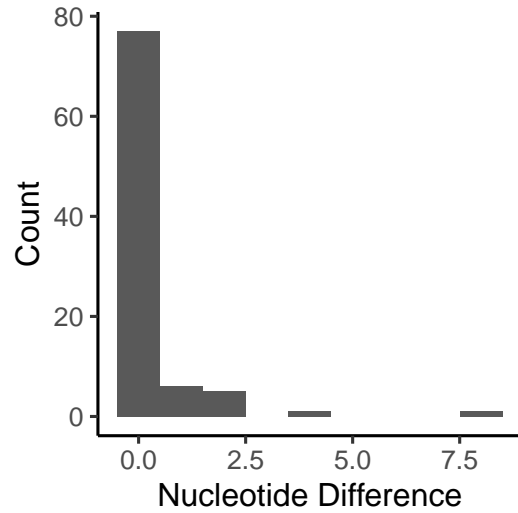
### IGKV1D-43\*01

27 sequences assigned  
24 (88.9%) exact matches, in which:  
24 unique CDR3  
5 unique J



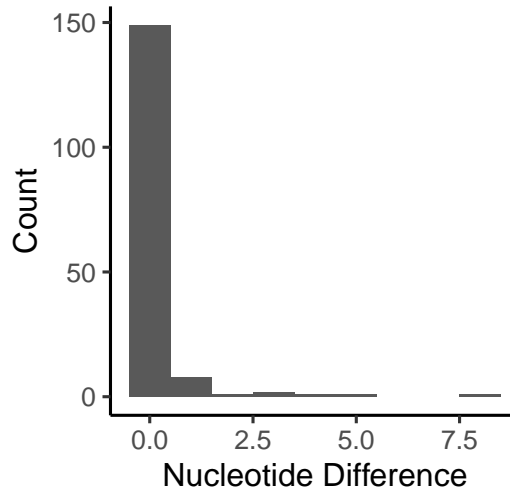
### IGKV3D-20\*01

90 sequences assigned  
77 (85.6%) exact matches, in which:  
70 unique CDR3  
5 unique J



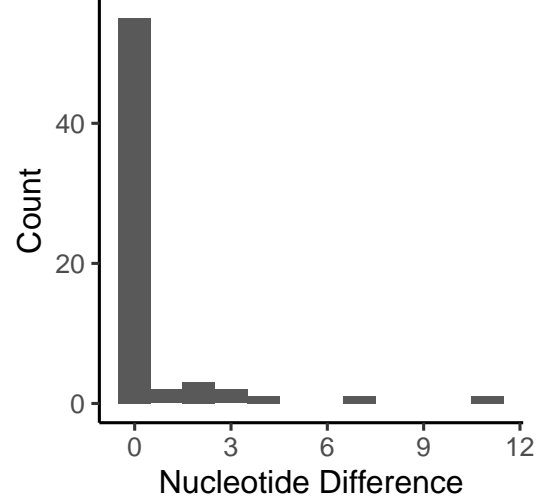
### IGKV2D-29\*01

163 sequences assigned  
149 (91.4%) exact matches, in which:  
121 unique CDR3  
5 unique J



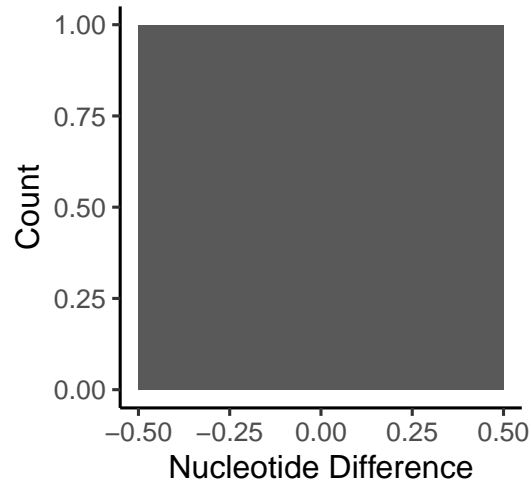
### IGKV1E-12\*01

66 sequences assigned  
55 (83.3%) exact matches, in which:  
38 unique CDR3  
5 unique J



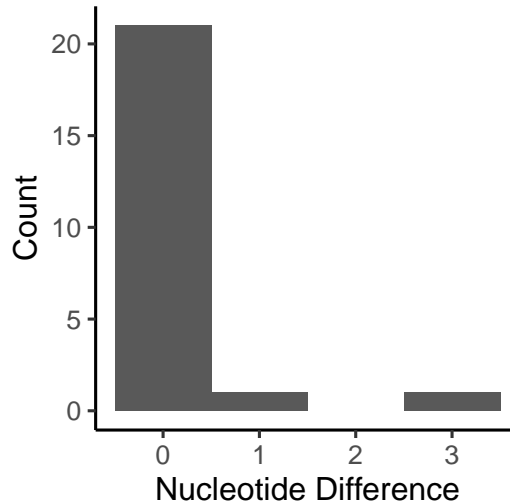
### IGKV2D-24\*01

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



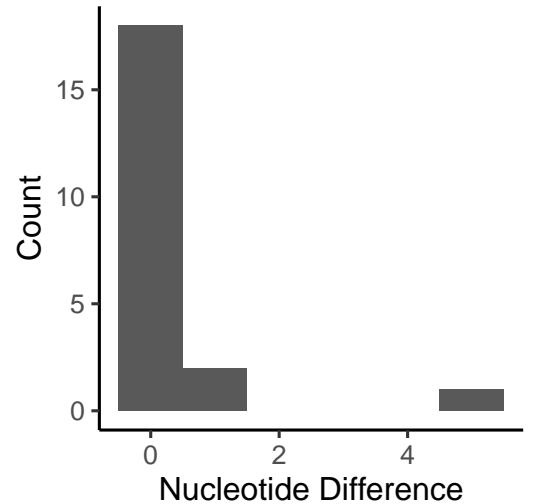
### IGKV2D-30\*01

23 sequences assigned  
21 (91.3%) exact matches, in which:  
20 unique CDR3  
5 unique J



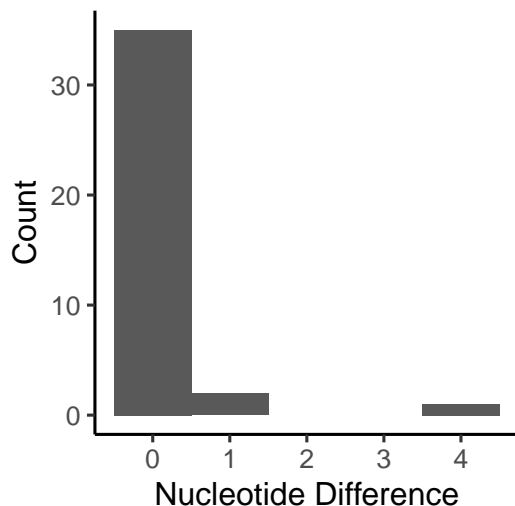
### IGKV1E-12\*02

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



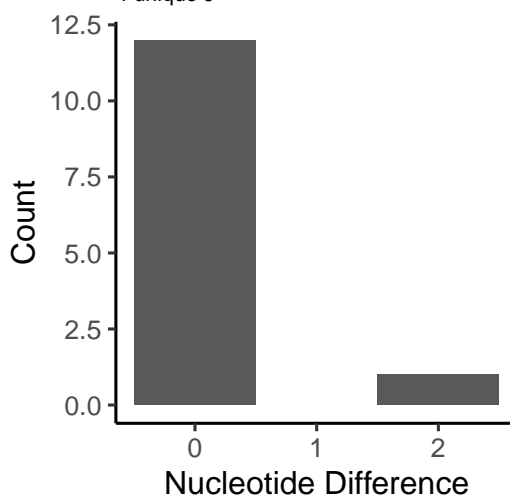
### IGKV1E-12\*03

38 sequences assigned  
35 (92.1%) exact matches, in which:  
33 unique CDR3  
5 unique J



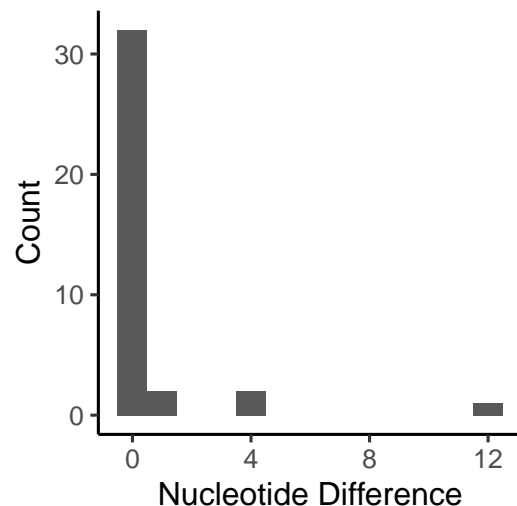
### IGKV6E-21\*03

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



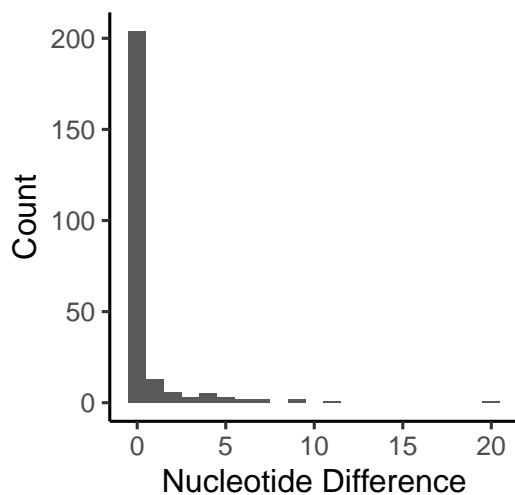
### IGKV1E-37\*01

37 sequences assigned  
32 (86.5%) exact matches, in which:  
31 unique CDR3  
5 unique J



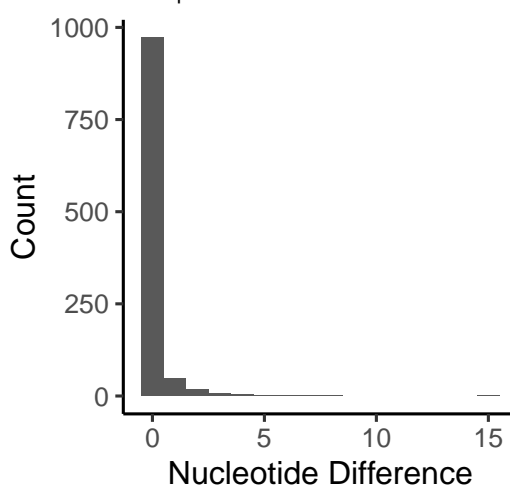
### IGKV1E-13\*02

242 sequences assigned  
204 (84.3%) exact matches, in which:  
168 unique CDR3  
5 unique J



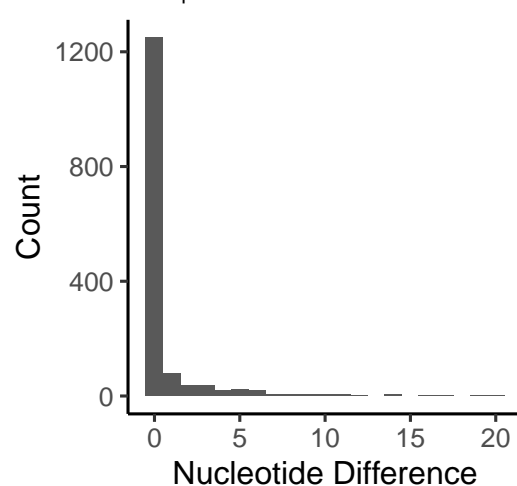
### IGKV2E-28\*01

1057 sequences assigned  
972 (92%) exact matches, in which:  
715 unique CDR3  
5 unique J



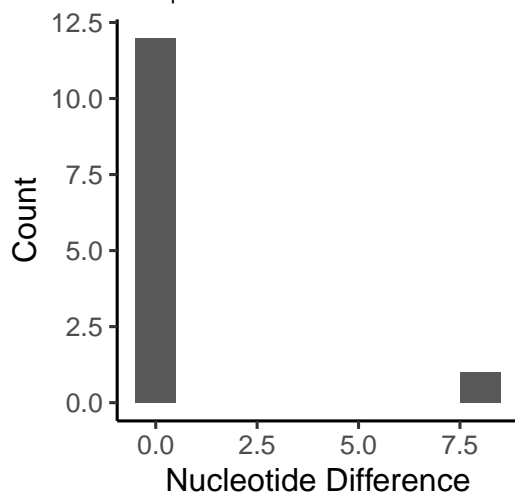
### IGKV1E-39\*01

1500 sequences assigned  
1249 (83.3%) exact matches, in which:  
865 unique CDR3  
5 unique J



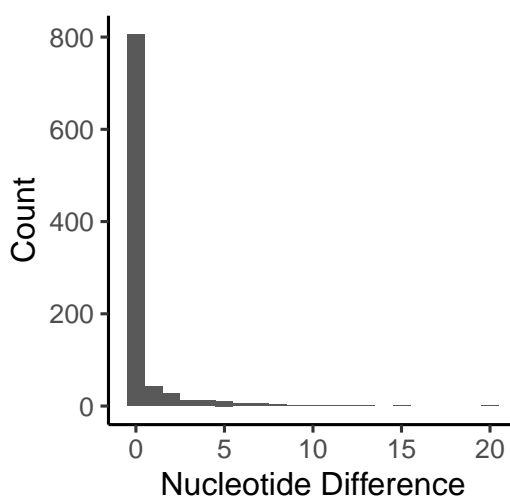
### IGKV6E-21\*01

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



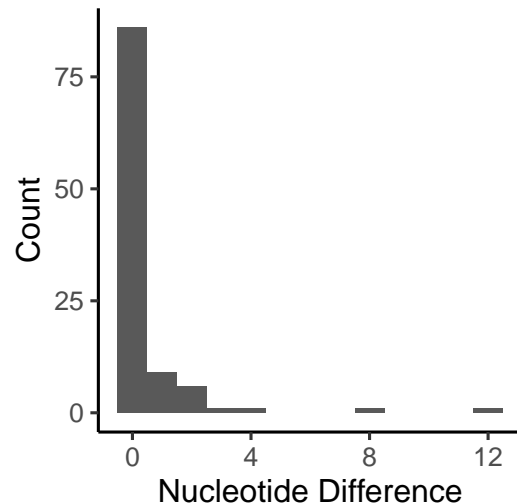
### IGKV1E-33\*01

935 sequences assigned  
806 (86.2%) exact matches, in which:  
575 unique CDR3  
5 unique J



### IGKV2E-40\*01

105 sequences assigned  
86 (81.9%) exact matches, in which:  
62 unique CDR3  
5 unique J





Warning – no inferred sequences found.