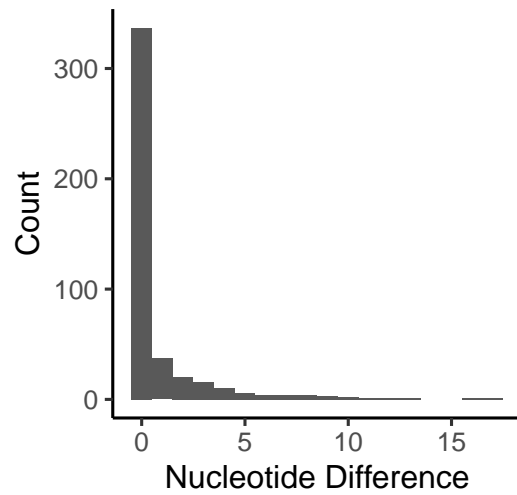


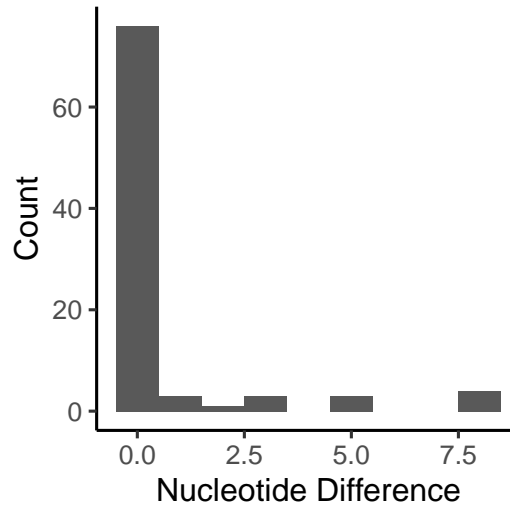
### IGKV1-5\*03

453 sequences assigned  
337 (74.4%) exact matches, in which:  
294 unique CDR3  
5 unique J



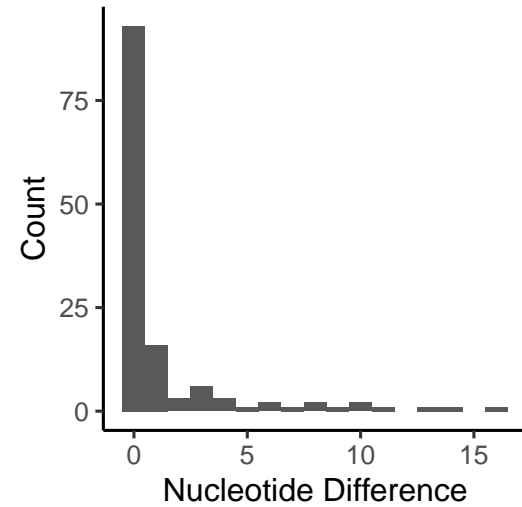
### IGKV1-8\*01

90 sequences assigned  
76 (84.4%) exact matches, in which:  
70 unique CDR3  
5 unique J



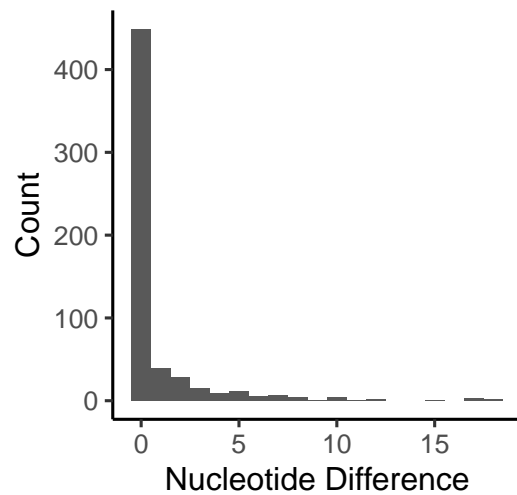
### IGKV1-16\*02

135 sequences assigned  
93 (68.9%) exact matches, in which:  
67 unique CDR3  
5 unique J



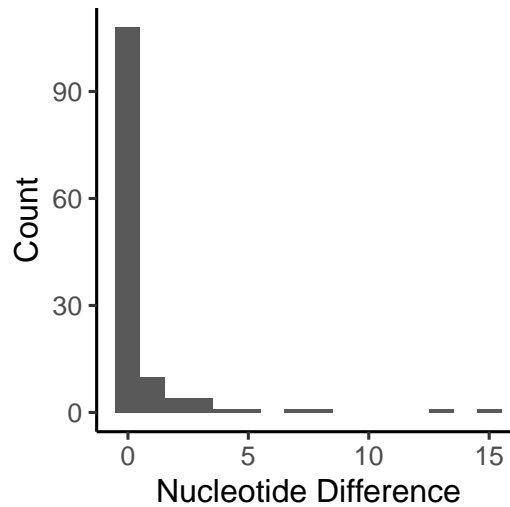
### IGKV1-5\*03\_G171A

585 sequences assigned  
449 (76.8%) exact matches, in which:  
387 unique CDR3  
5 unique J



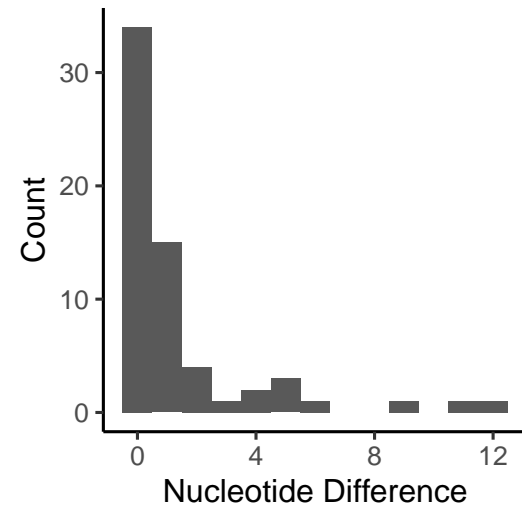
### IGKV1-8\*01\_G12A\_T31C

133 sequences assigned  
108 (81.2%) exact matches, in which:  
95 unique CDR3  
5 unique J



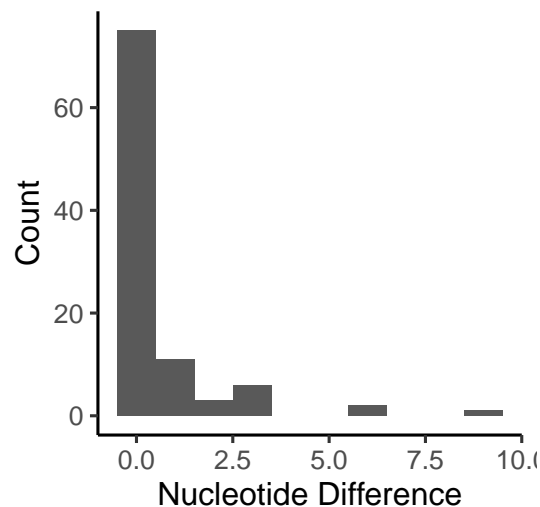
### IGKV1-17\*01

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



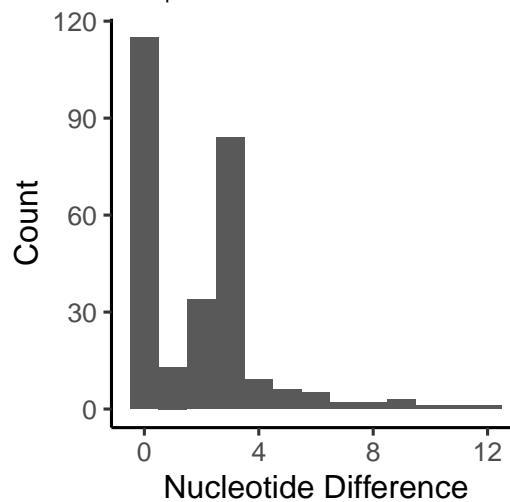
### IGKV1-6\*01

98 sequences assigned  
75 (76.5%) exact matches, in which:  
53 unique CDR3  
4 unique J



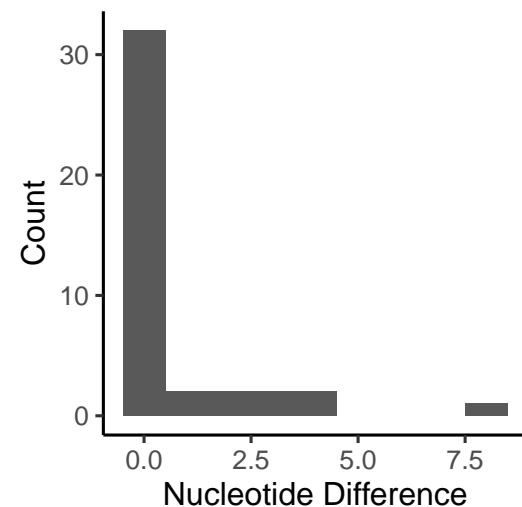
### IGKV1-9\*01

278 sequences assigned  
115 (41.4%) exact matches, in which:  
100 unique CDR3  
5 unique J



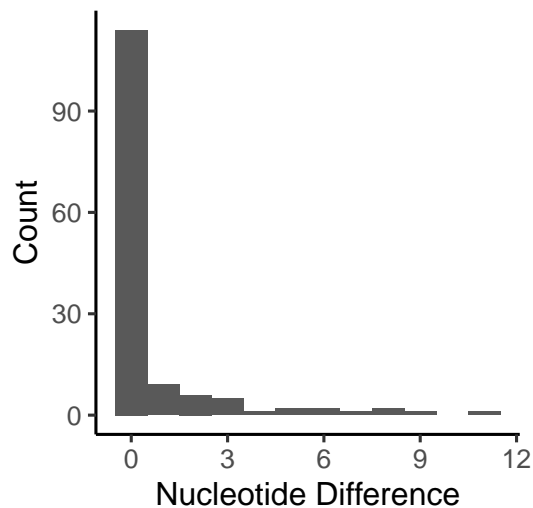
### IGKV1-17\*03

41 sequences assigned  
32 (78%) exact matches, in which:  
28 unique CDR3  
5 unique J



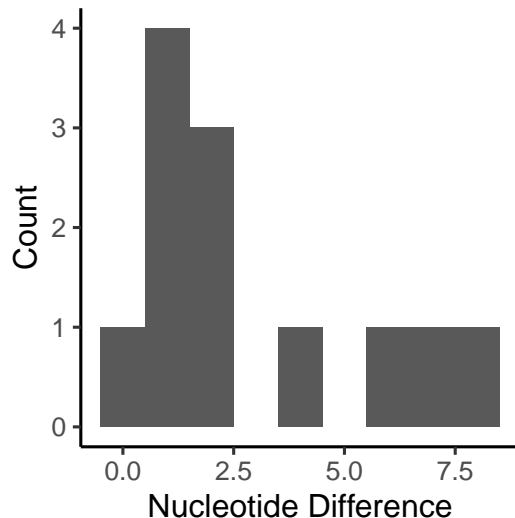
### IGKV1-27\*01

144 sequences assigned  
114 (79.2%) exact matches, in which:  
77 unique CDR3  
5 unique J



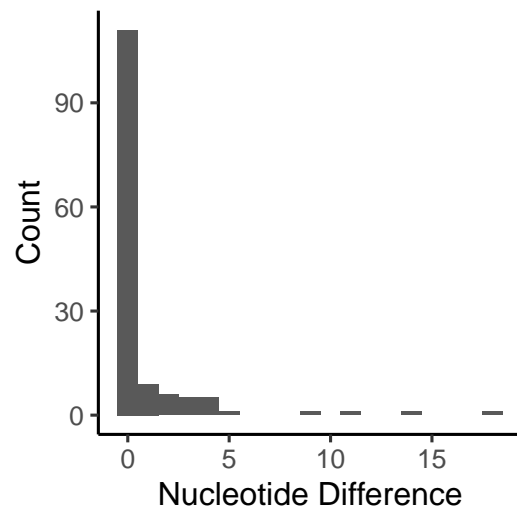
### IGKV2/OR22-4\*01

12 sequences assigned  
1 (8.3%) exact matches, in which:  
1 unique CDR3  
1 unique J



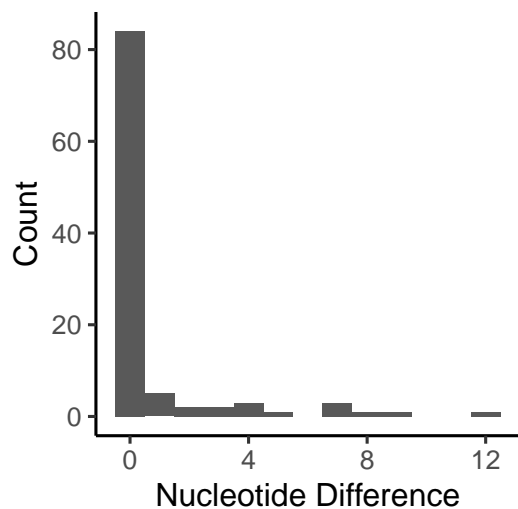
### IGKV2-29\*02

142 sequences assigned  
111 (78.2%) exact matches, in which:  
92 unique CDR3  
5 unique J



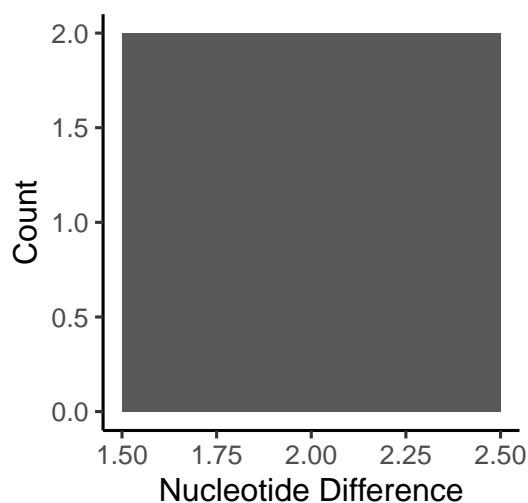
### IGKV1-27\*01\_T231C

103 sequences assigned  
84 (81.6%) exact matches, in which:  
59 unique CDR3  
5 unique J



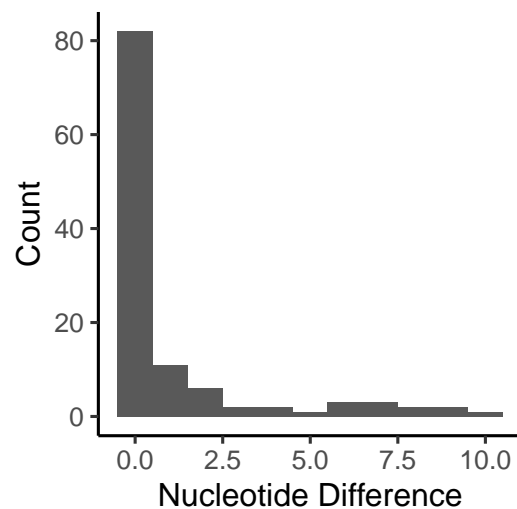
### IGKV2-18\*01

2 sequences assigned  
No exact matches.



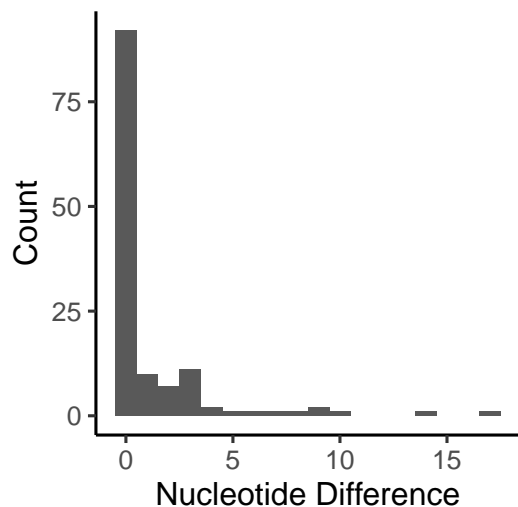
### IGKV2-30\*01

115 sequences assigned  
82 (71.3%) exact matches, in which:  
75 unique CDR3  
5 unique J



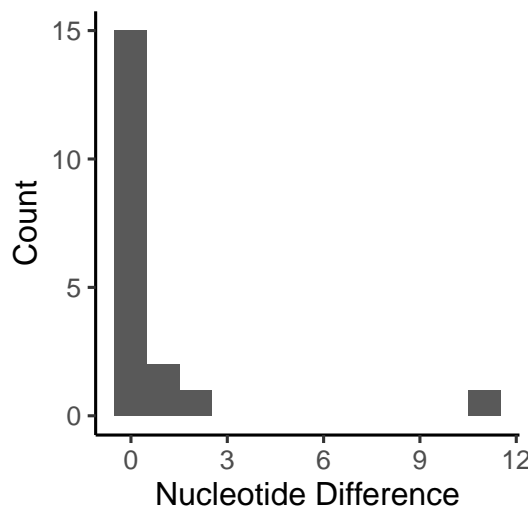
### IGKV1-NL1\*01

133 sequences assigned  
92 (69.2%) exact matches, in which:  
81 unique CDR3  
5 unique J



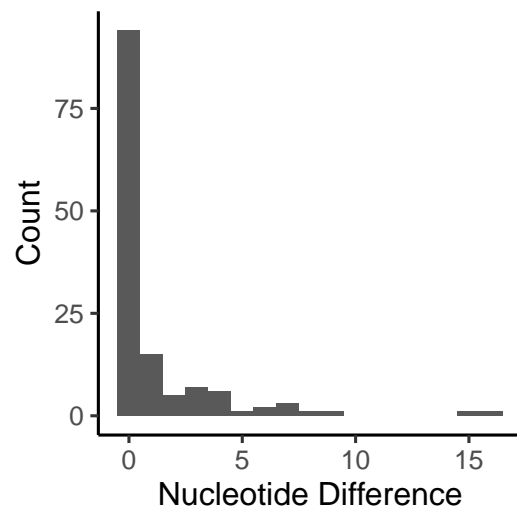
### IGKV2-24\*01

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



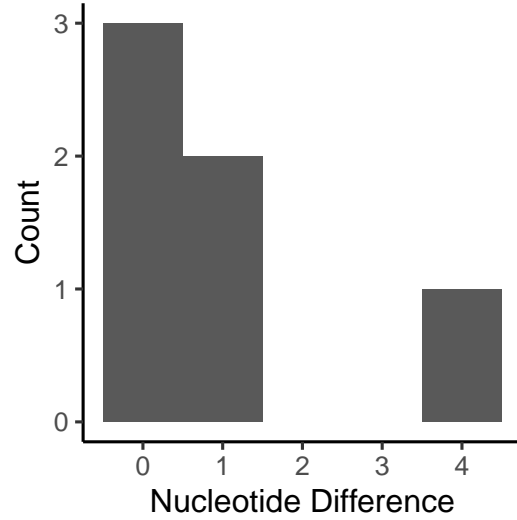
### IGKV2-30\*02

137 sequences assigned  
94 (68.6%) exact matches, in which:  
90 unique CDR3  
5 unique J



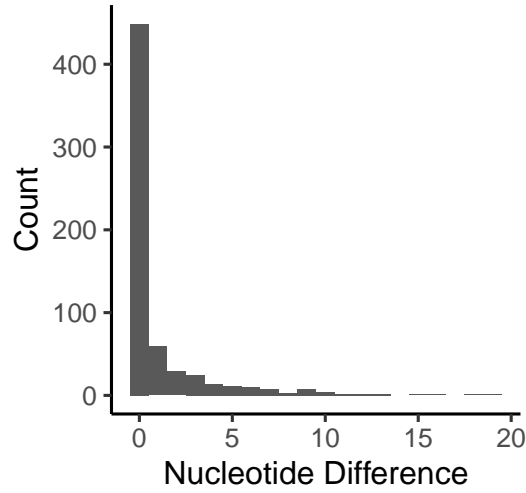
### IGKV3-7\*04

6 sequences assigned  
3 (50%) exact matches, in which:  
3 unique CDR3  
3 unique J



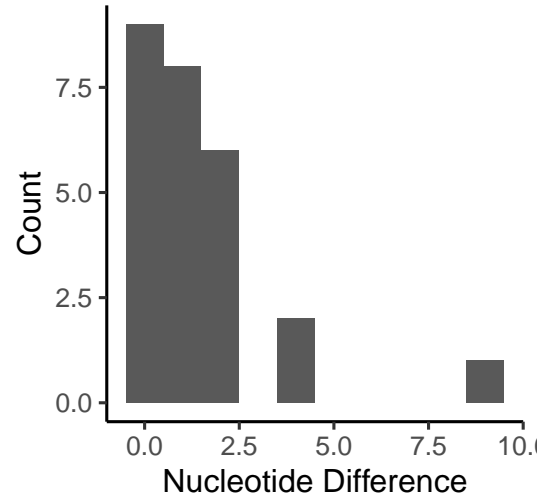
### IGKV3-15\*01\_C27T

630 sequences assigned  
449 (71.3%) exact matches, in which:  
377 unique CDR3  
5 unique J



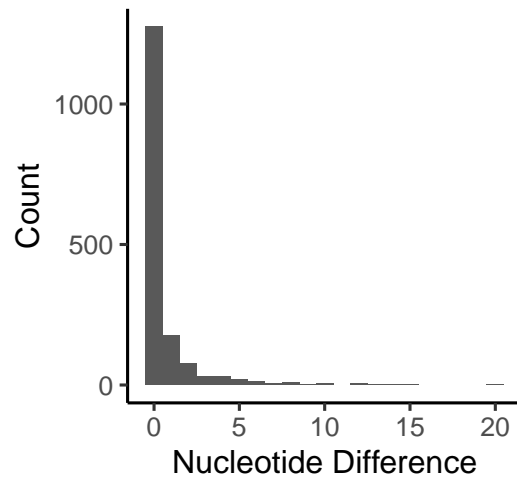
### IGKV5-2\*01

26 sequences assigned  
9 (34.6%) exact matches, in which:  
7 unique CDR3  
3 unique J



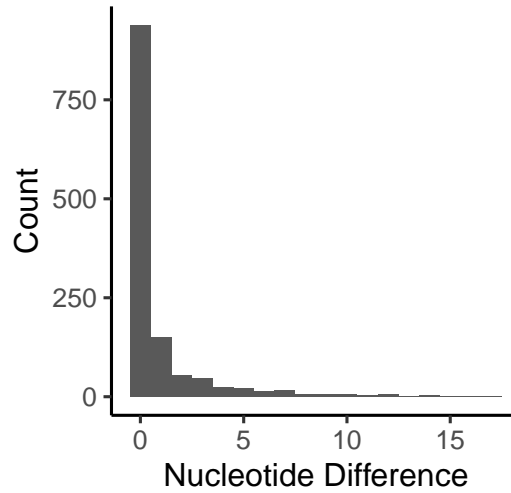
### IGKV3-11\*01

1657 sequences assigned  
1275 (76.9%) exact matches, in which:  
908 unique CDR3  
5 unique J



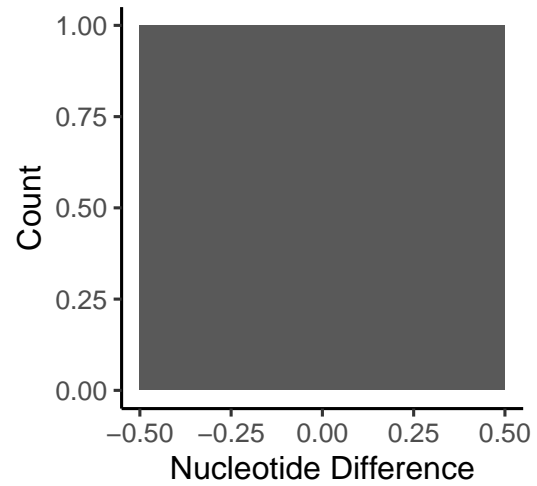
### IGKV3-20\*01

1311 sequences assigned  
939 (71.6%) exact matches, in which:  
720 unique CDR3  
5 unique J



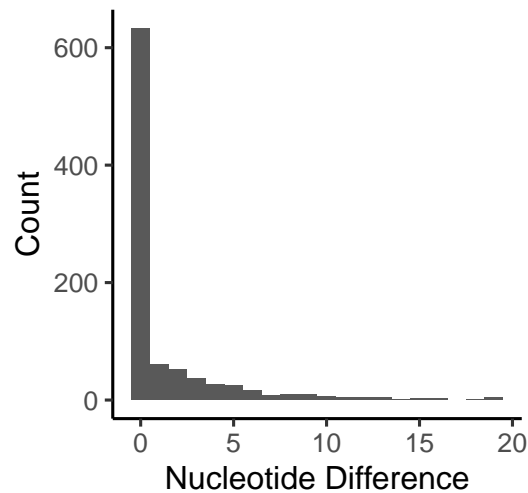
### IGKV7-3\*01

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



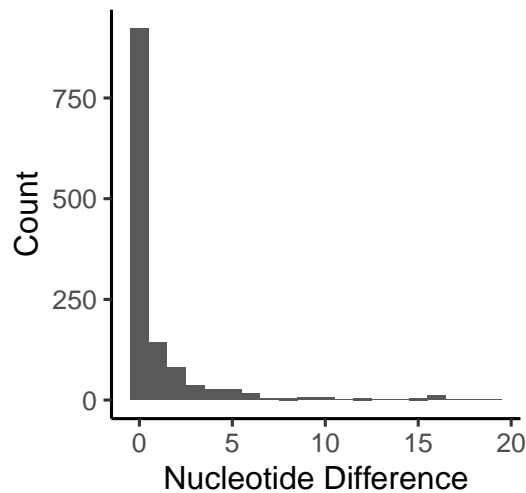
### IGKV3-15\*01

913 sequences assigned  
633 (69.3%) exact matches, in which:  
531 unique CDR3  
5 unique J



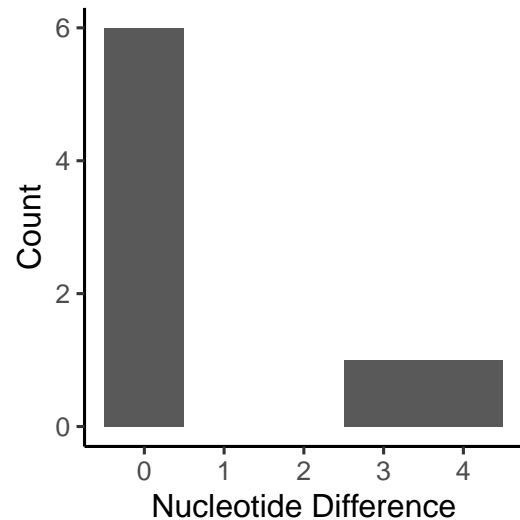
### IGKV4-1\*01

1321 sequences assigned  
923 (69.9%) exact matches, in which:  
587 unique CDR3  
5 unique J



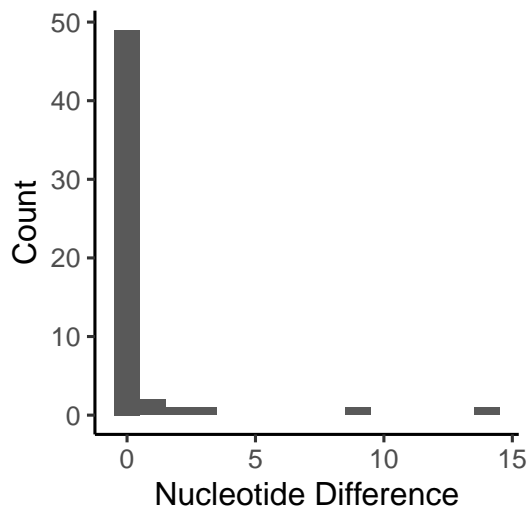
### IGKV3D-7\*01

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



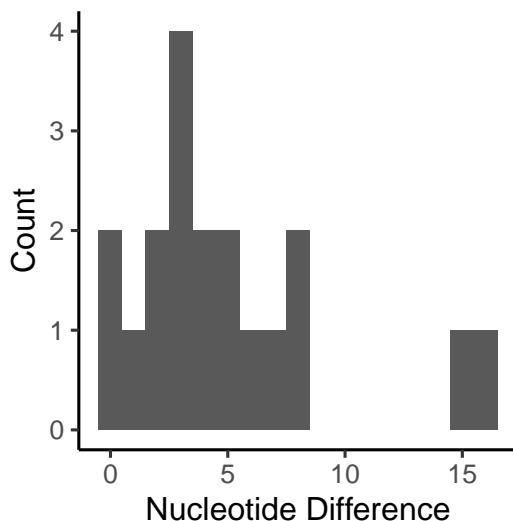
### IGKV1D-8\*01

55 sequences assigned  
49 (89.1%) exact matches, in which:  
34 unique CDR3  
5 unique J



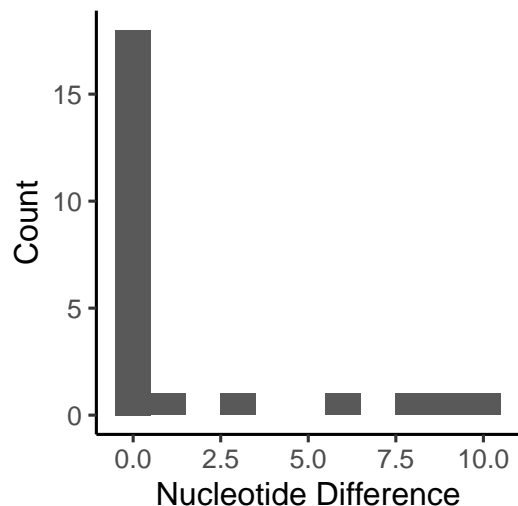
### IGKV3D-11\*02\_C247T

19 sequences assigned  
2 (10.5%) exact matches, in which:  
2 unique CDR3  
2 unique J



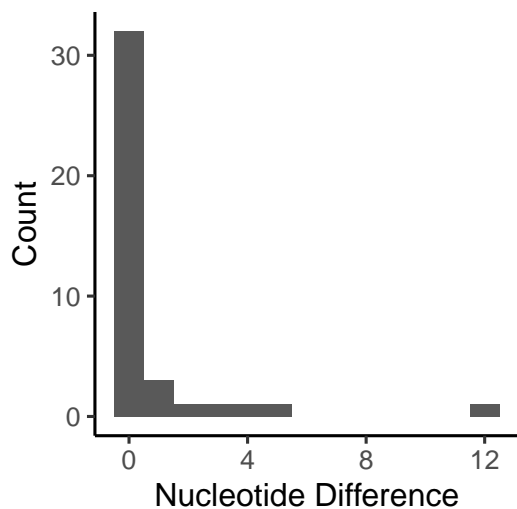
### IGKV1D-16\*01

24 sequences assigned  
18 (75%) exact matches, in which:  
17 unique CDR3  
5 unique J



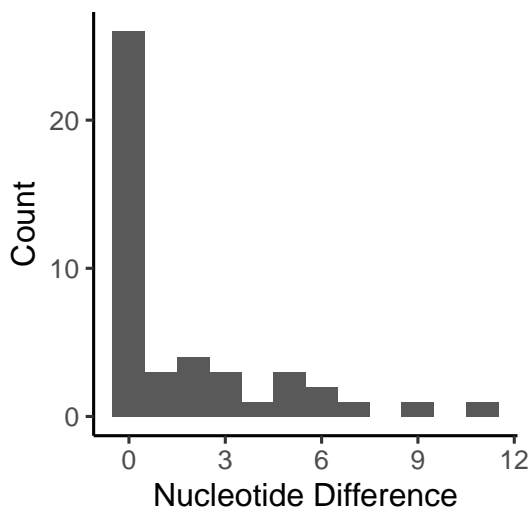
### IGKV1D-8\*02

40 sequences assigned  
32 (80%) exact matches, in which:  
21 unique CDR3  
5 unique J



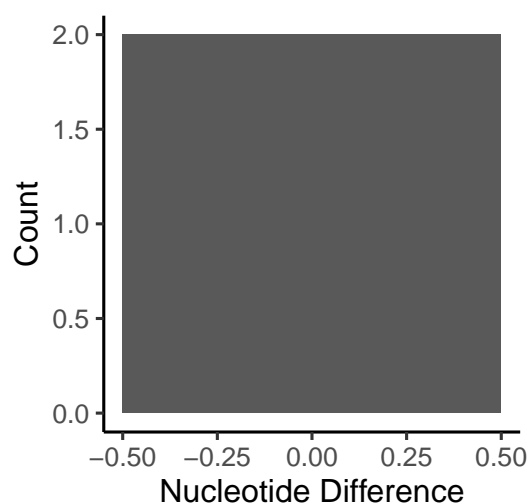
### IGKV3D-15\*01

46 sequences assigned  
26 (56.5%) exact matches, in which:  
25 unique CDR3  
5 unique J



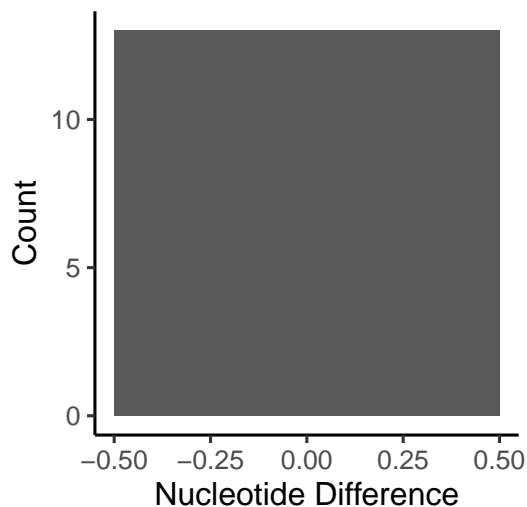
### IGKV1D-17\*01

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



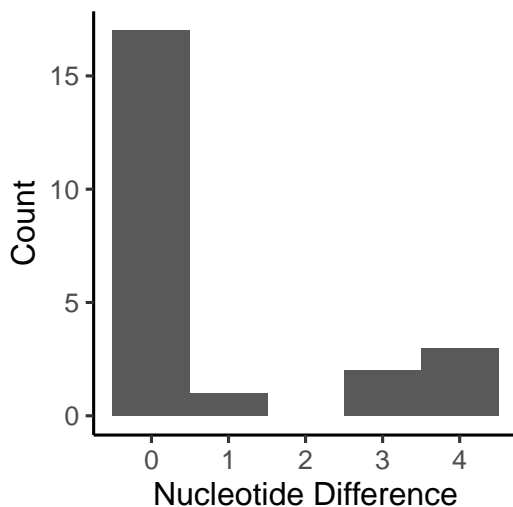
### IGKV3D-11\*02

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



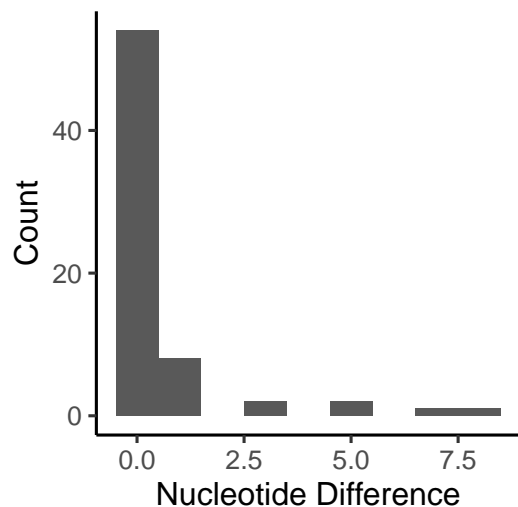
### IGKV3D-15\*03

23 sequences assigned  
17 (73.9%) exact matches, in which:  
15 unique CDR3  
4 unique J



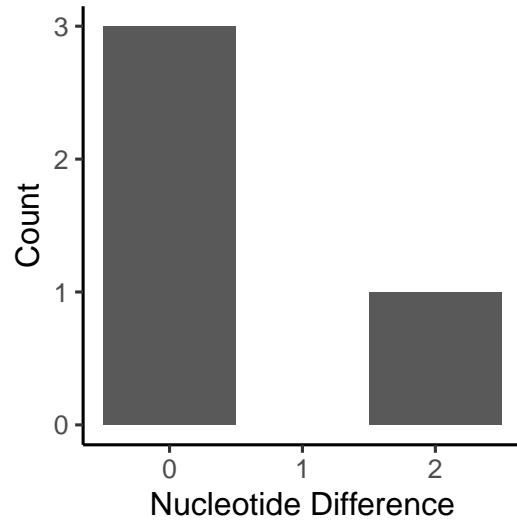
### IGKV3D-20\*01

68 sequences assigned  
54 (79.4%) exact matches, in which:  
51 unique CDR3  
5 unique J



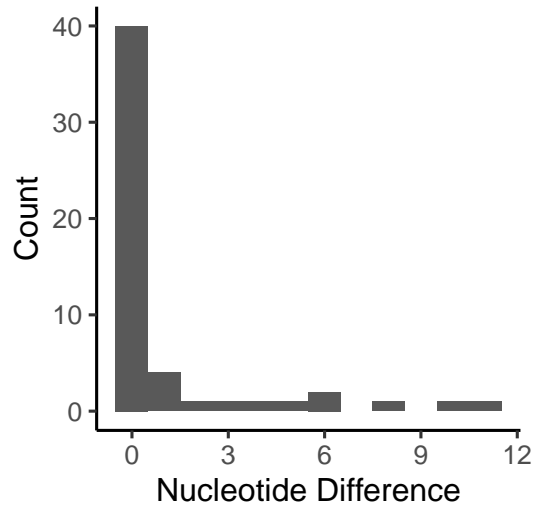
### IGKV2D-24\*01

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



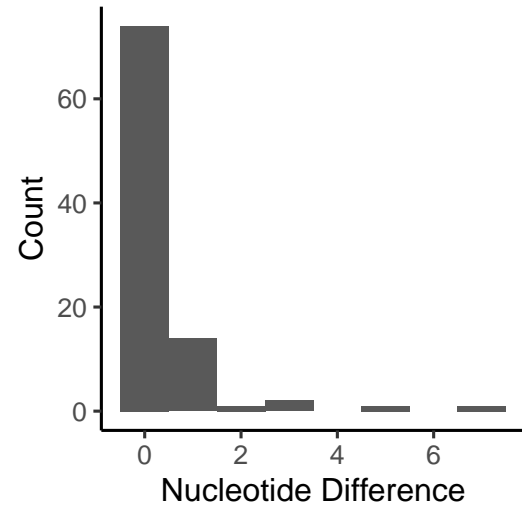
### IGKV2D-29\*02

53 sequences assigned  
40 (75.5%) exact matches, in which:  
35 unique CDR3  
5 unique J



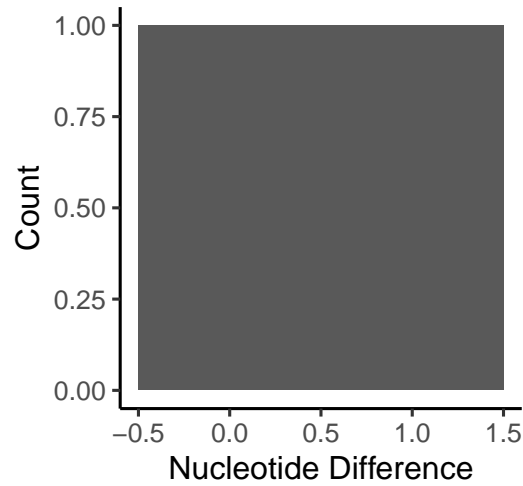
### IGKV1E-12\*01

93 sequences assigned  
74 (79.6%) exact matches, in which:  
39 unique CDR3  
5 unique J



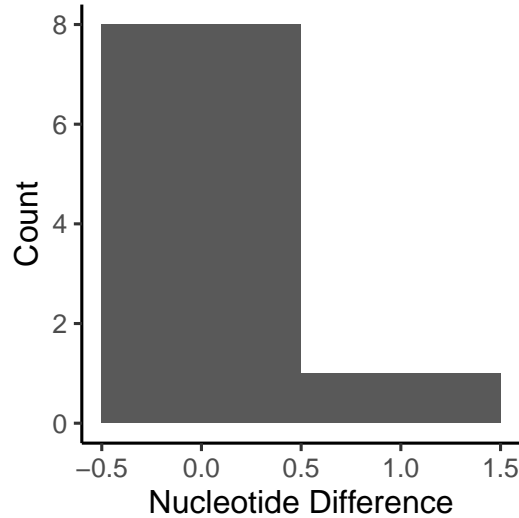
### IGKV2D-26\*03

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



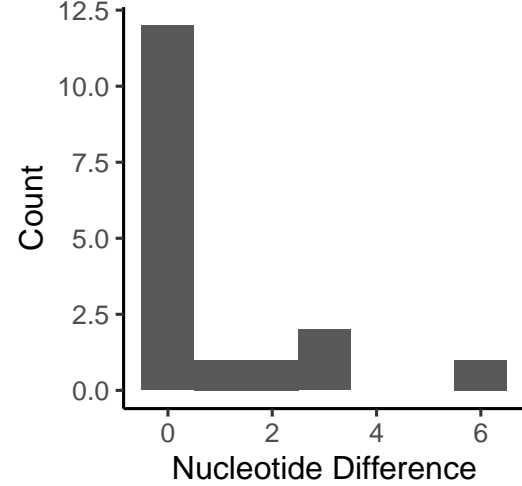
### IGKV2D-30\*01

9 sequences assigned  
8 (88.9%) exact matches, in which:  
8 unique CDR3  
4 unique J



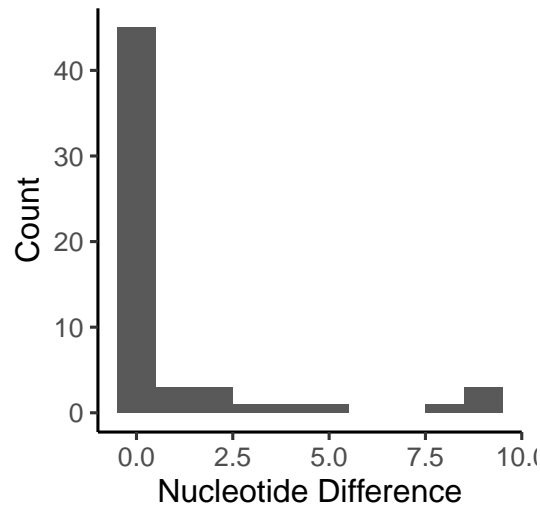
### IGKV1E-12\*02

18 sequences assigned  
12 (66.7%) exact matches, in which:  
10 unique CDR3  
5 unique J



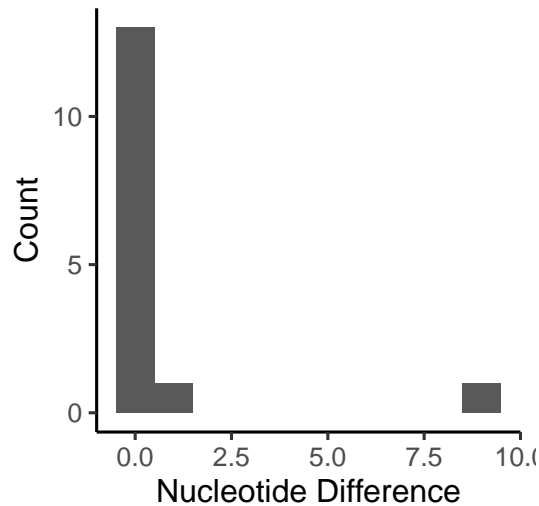
### IGKV2D-29\*01

59 sequences assigned  
45 (76.3%) exact matches, in which:  
40 unique CDR3  
5 unique J



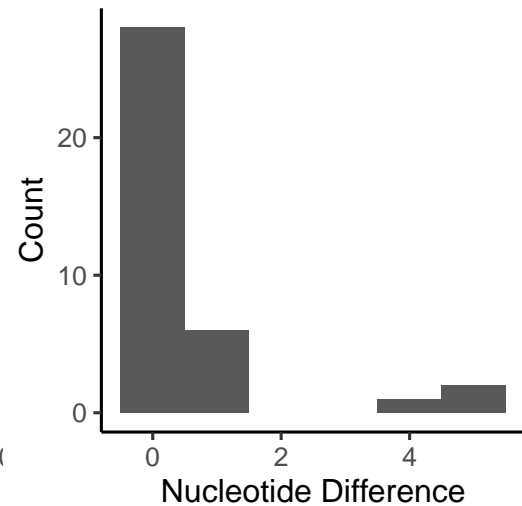
### IGKV1D-43\*01

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



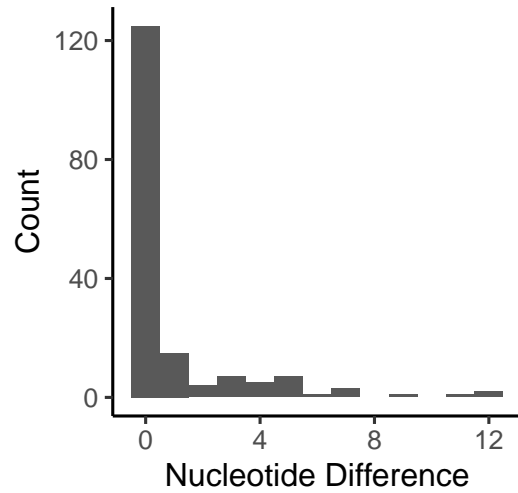
### IGKV1E-12\*03

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



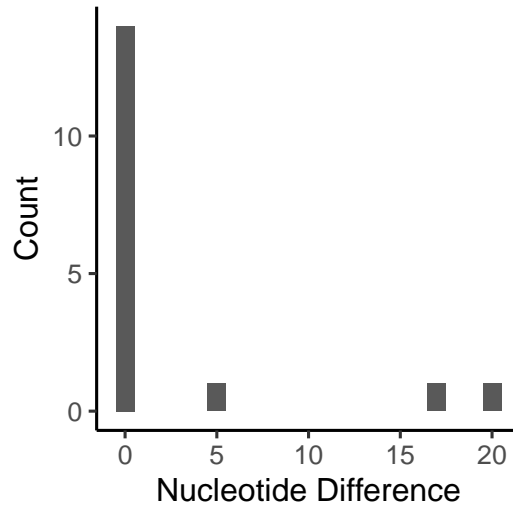
### IGKV1E-13\*02

171 sequences assigned  
125 (73.1%) exact matches, in which:  
98 unique CDR3  
5 unique J



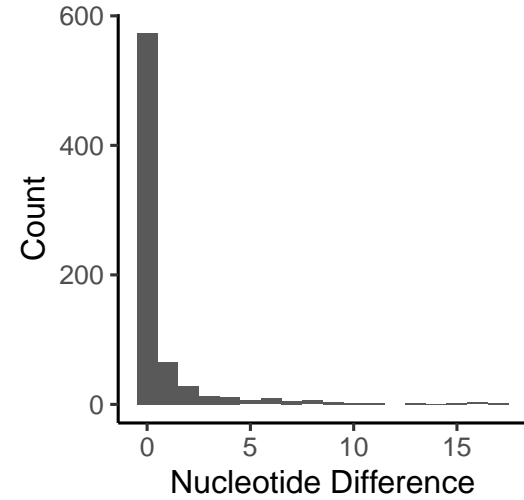
### IGKV6E-21\*02

17 sequences assigned  
14 (82.4%) exact matches, in which:  
11 unique CDR3  
5 unique J



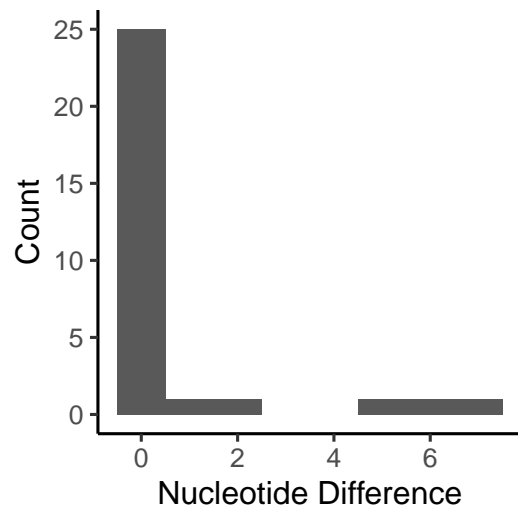
### IGKV1E-33\*01

741 sequences assigned  
574 (77.5%) exact matches, in which:  
355 unique CDR3  
5 unique J



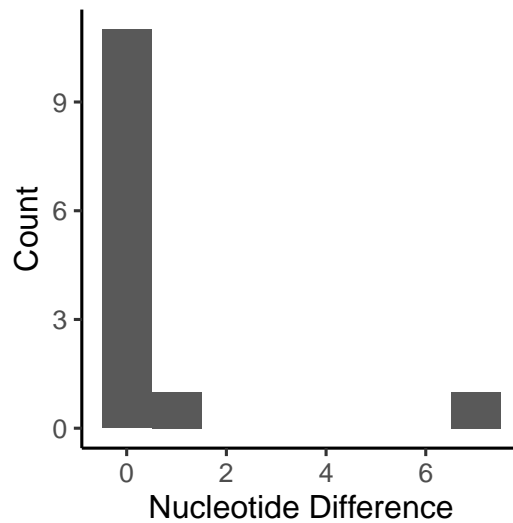
### IGKV1E-13\*03

30 sequences assigned  
25 (83.3%) exact matches, in which:  
18 unique CDR3  
5 unique J



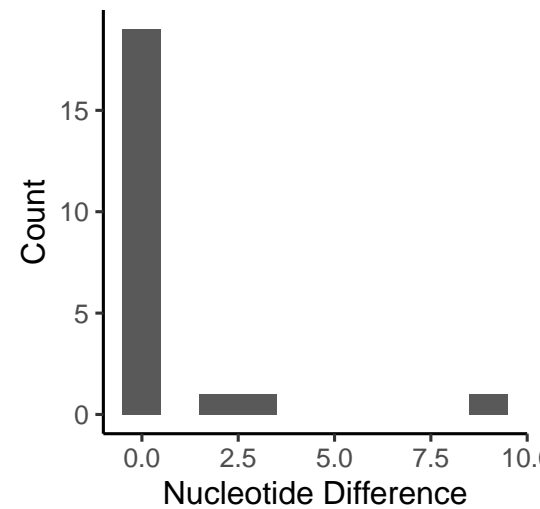
### IGKV6E-21\*03

13 sequences assigned  
11 (84.6%) exact matches, in which:  
9 unique CDR3  
5 unique J



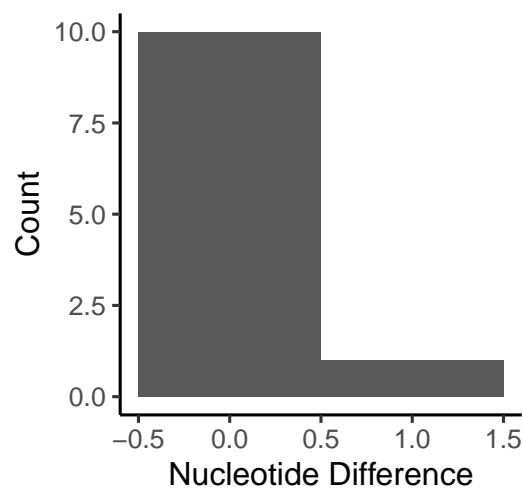
### IGKV1E-37\*01

22 sequences assigned  
19 (86.4%) exact matches, in which:  
19 unique CDR3  
5 unique J



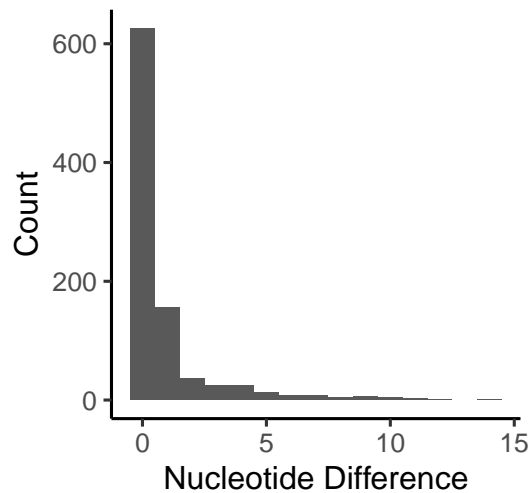
### IGKV6E-21\*01

11 sequences assigned  
10 (90.9%) exact matches, in which:  
8 unique CDR3  
3 unique J



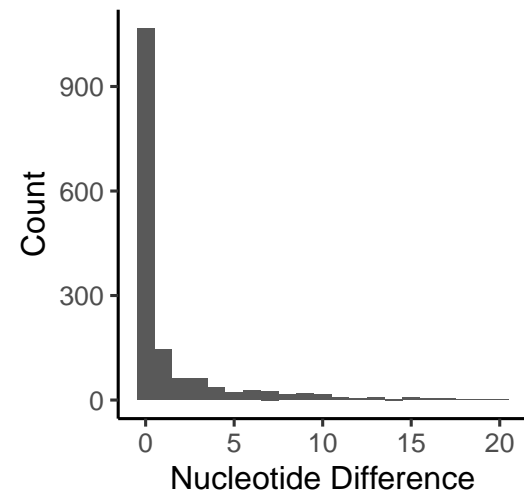
### IGKV2E-28\*01

915 sequences assigned  
626 (68.4%) exact matches, in which:  
461 unique CDR3  
5 unique J



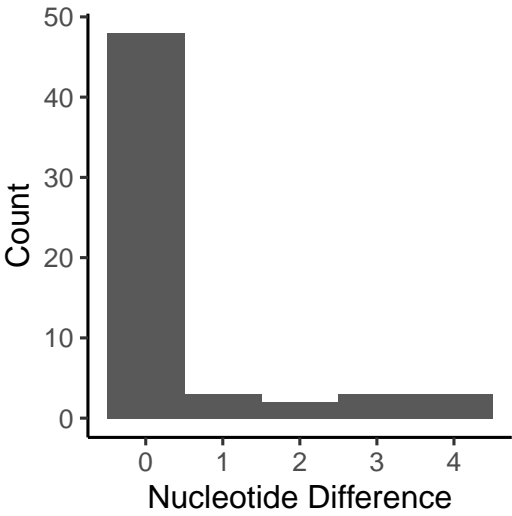
### IGKV1E-39\*01

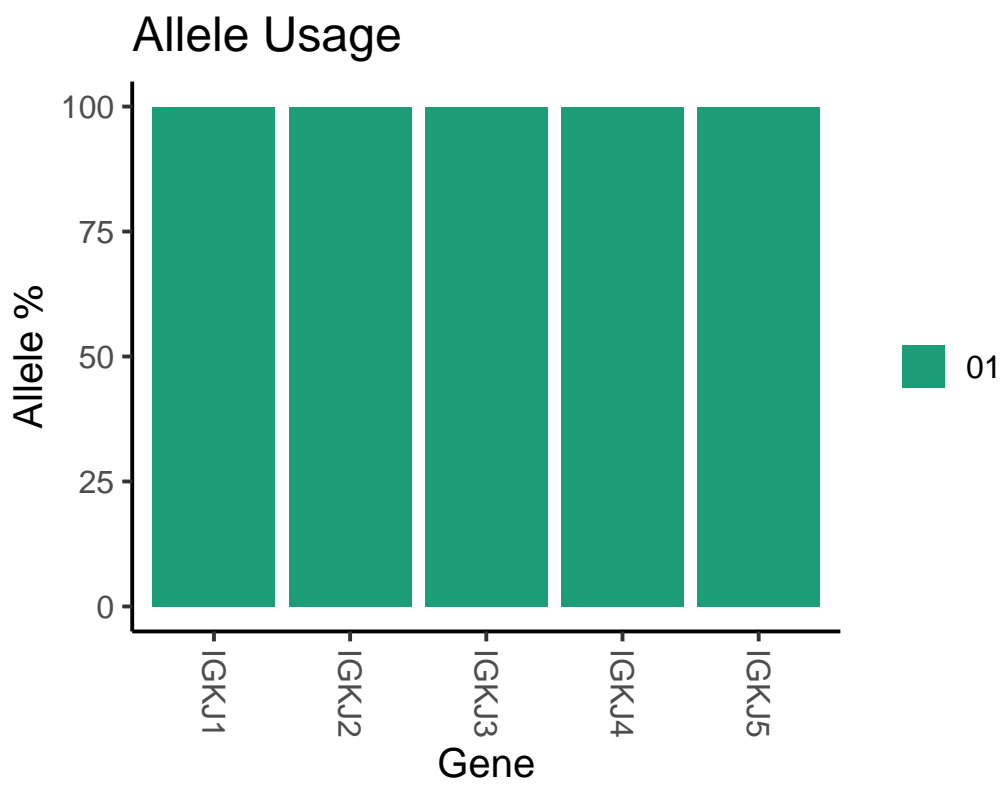
1564 sequences assigned  
1067 (68.2%) exact matches, in which:  
620 unique CDR3  
5 unique J



# IGKV2E-40\*01

59 sequences assigned  
48 (81.4%) exact matches, in which:  
42 unique CDR3  
5 unique J







Warning – no inferred sequences found.