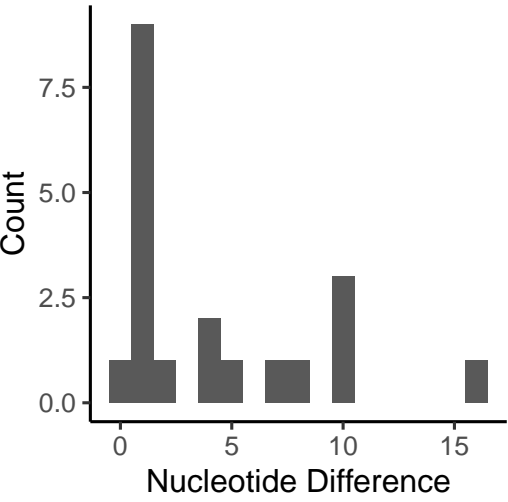


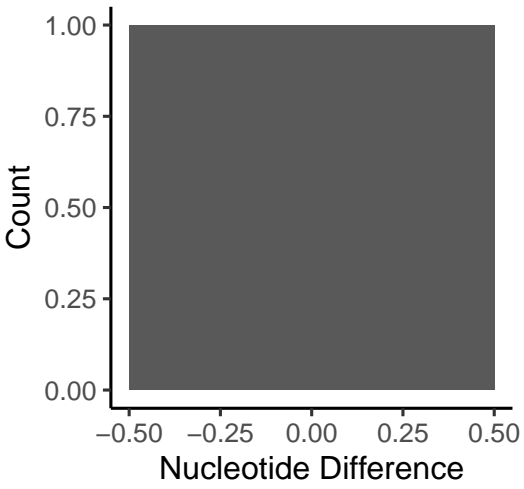
IGLV10-54\*01

20 sequences assigned  
1 (5%) exact matches, in which:  
1 unique CDR3  
1 unique J



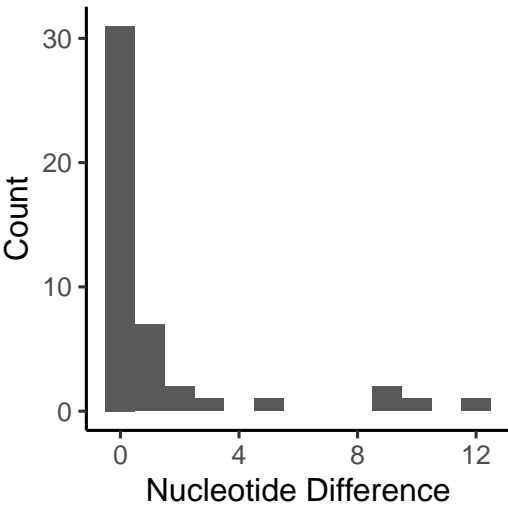
IGLV1-41\*01

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



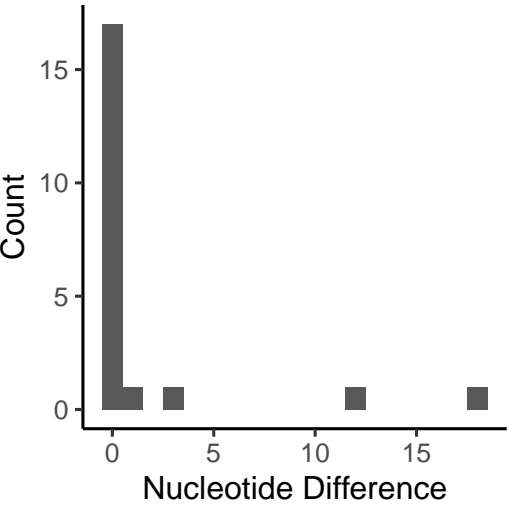
IGLV1-51\*01

46 sequences assigned  
31 (67.4%) exact matches, in which:  
28 unique CDR3  
3 unique J



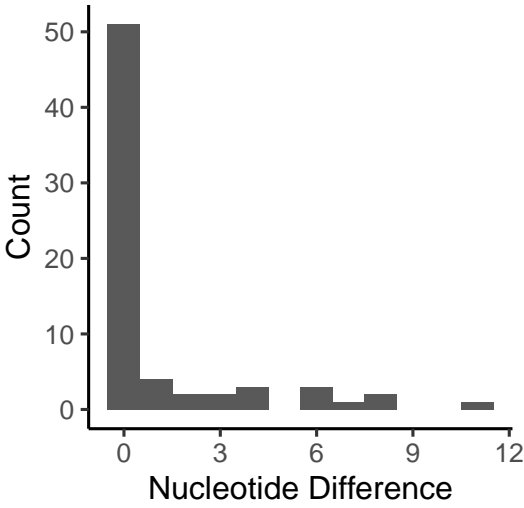
IGLV1-36\*01

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



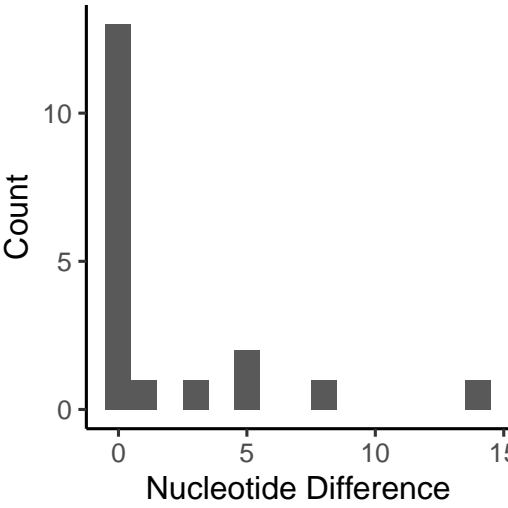
IGLV1-44\*01

69 sequences assigned  
51 (73.9%) exact matches, in which:  
48 unique CDR3  
2 unique J



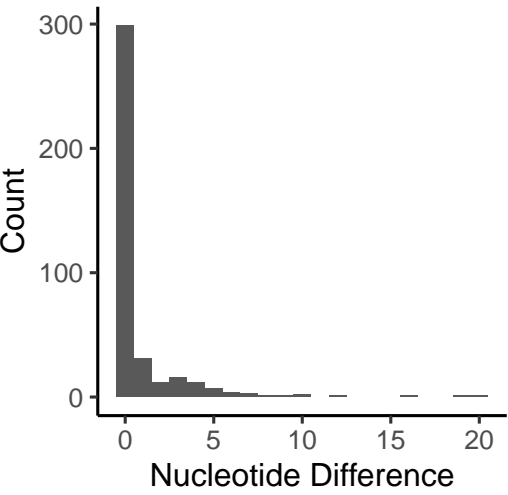
IGLV1-51\*02

19 sequences assigned  
13 (68.4%) exact matches, in which:  
13 unique CDR3  
2 unique J



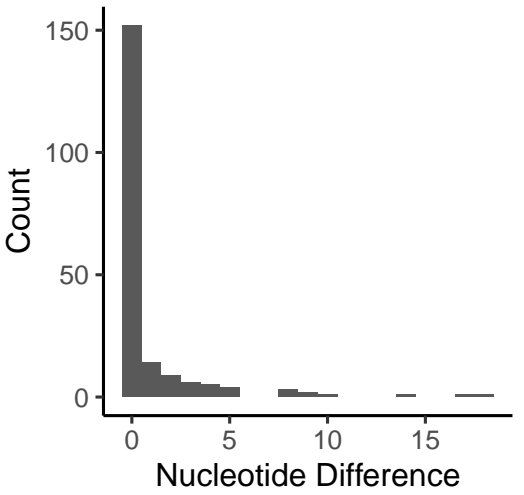
IGLV1-40\*01

398 sequences assigned  
299 (75.1%) exact matches, in which:  
268 unique CDR3  
3 unique J



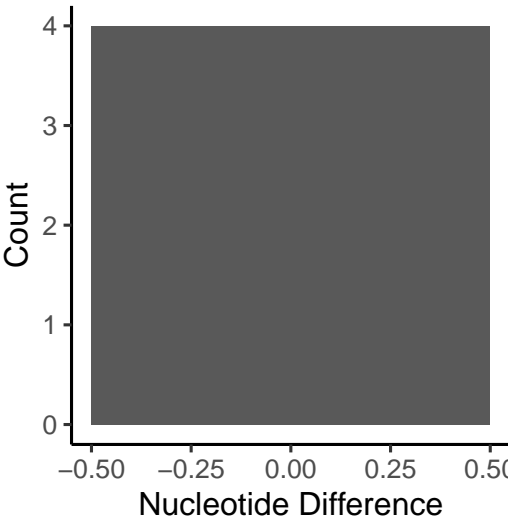
IGLV1-47\*01

199 sequences assigned  
152 (76.4%) exact matches, in which:  
135 unique CDR3  
4 unique J



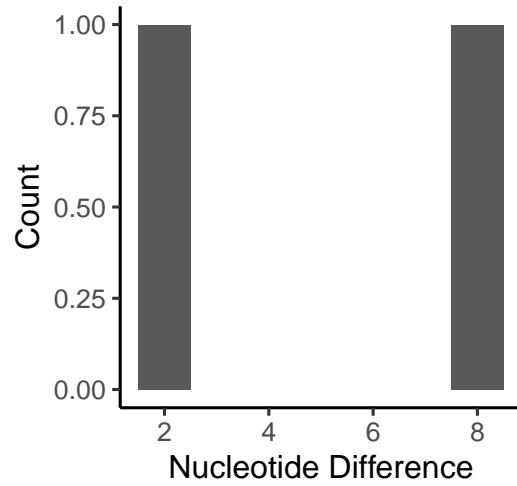
IGLV2-5\*01

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



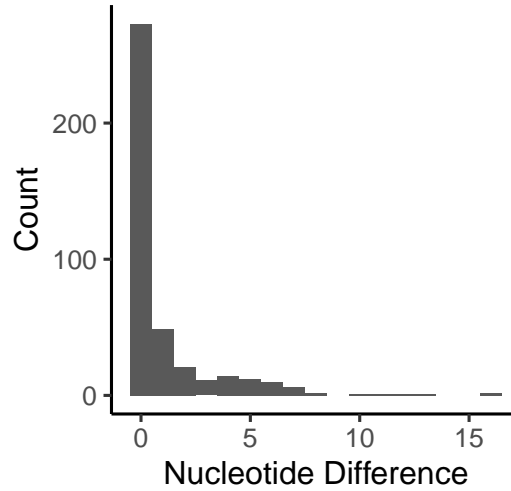
### IGLV2-5\*02

2 sequences assigned  
No exact matches.



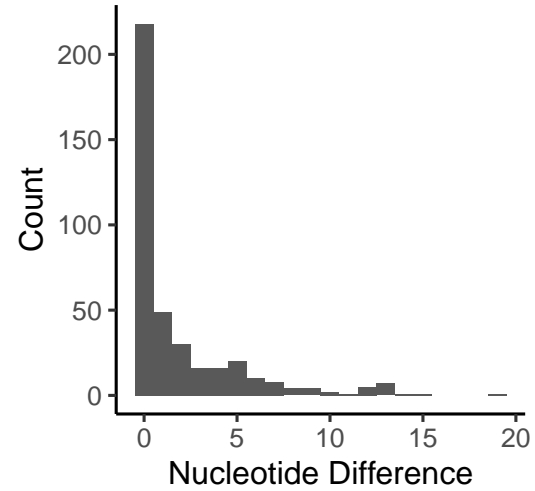
### IGLV2-14\*01

406 sequences assigned  
273 (67.2%) exact matches, in which:  
264 unique CDR3  
2 unique J



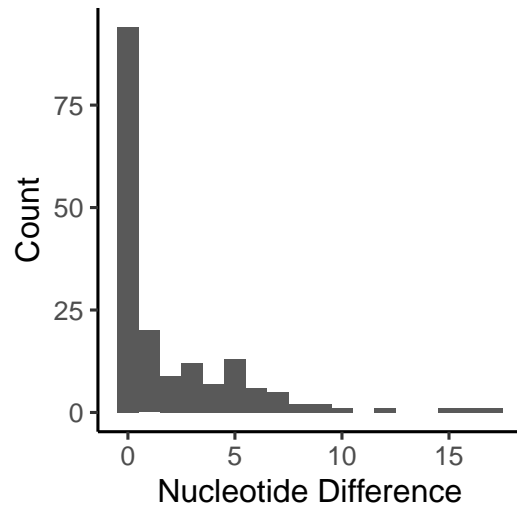
### IGLV2-23\*02EXT5

393 sequences assigned  
218 (55.5%) exact matches, in which:  
209 unique CDR3  
3 unique J



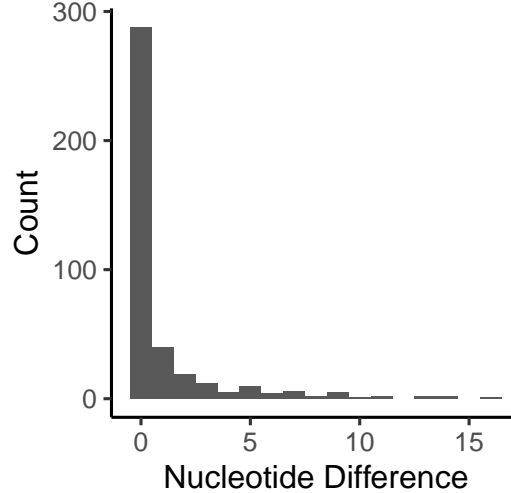
### IGLV2-8\*01

175 sequences assigned  
94 (53.7%) exact matches, in which:  
92 unique CDR3  
2 unique J



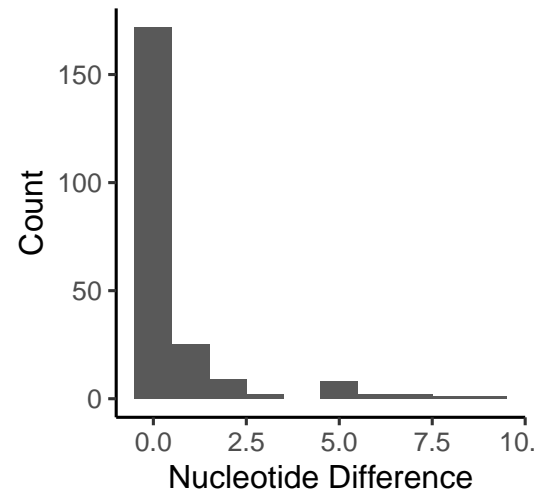
### IGLV2-14\*03EXT3

401 sequences assigned  
288 (71.8%) exact matches, in which:  
271 unique CDR3  
2 unique J



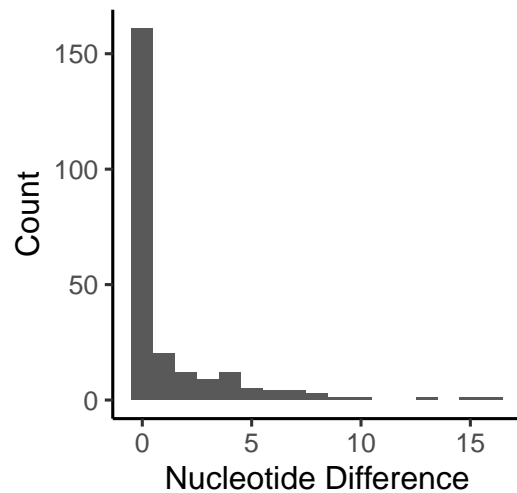
### IGLV2-23\*03EXT5

222 sequences assigned  
172 (77.5%) exact matches, in which:  
165 unique CDR3  
4 unique J



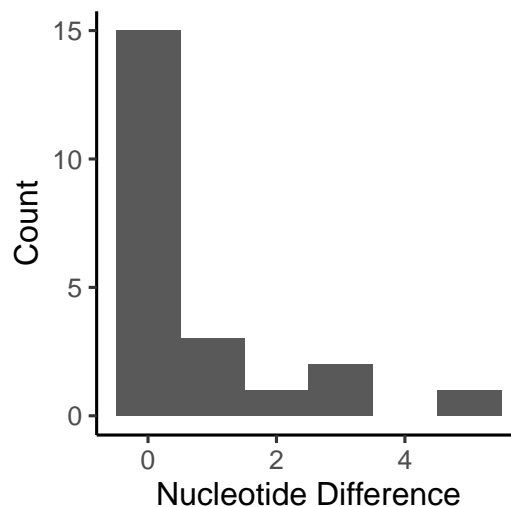
### IGLV2-11\*01

235 sequences assigned  
161 (68.5%) exact matches, in which:  
152 unique CDR3  
2 unique J



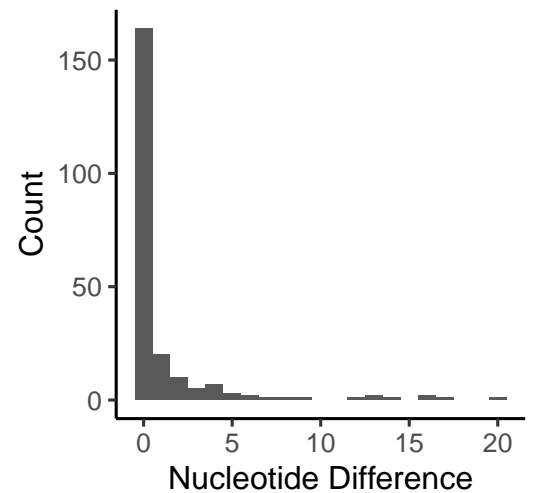
### IGLV2-18\*02

22 sequences assigned  
15 (68.2%) exact matches, in which:  
12 unique CDR3  
2 unique J



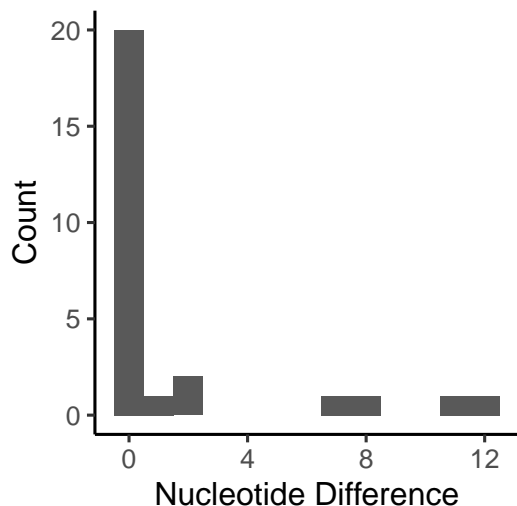
### IGLV3-1\*01

222 sequences assigned  
164 (73.9%) exact matches, in which:  
156 unique CDR3  
4 unique J



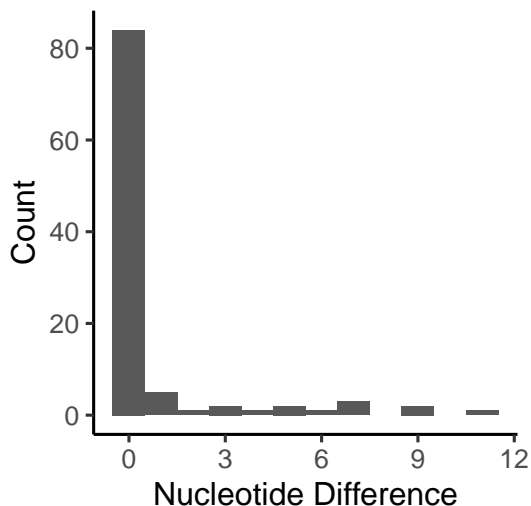
### IGLV3-9\*01EXT5

29 sequences assigned  
20 (69%) exact matches, in which:  
20 unique CDR3  
2 unique J



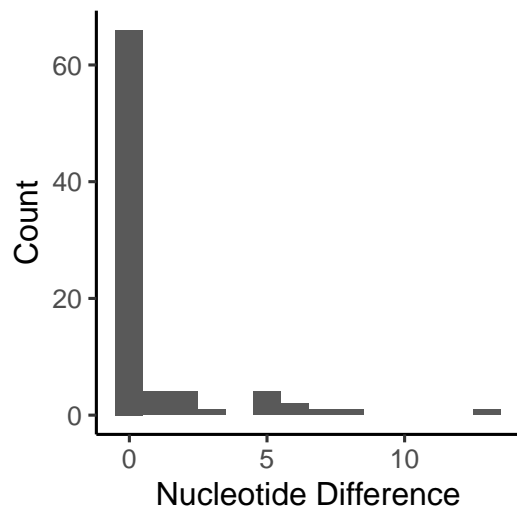
### IGLV3-19\*01

102 sequences assigned  
84 (82.4%) exact matches, in which:  
78 unique CDR3  
2 unique J



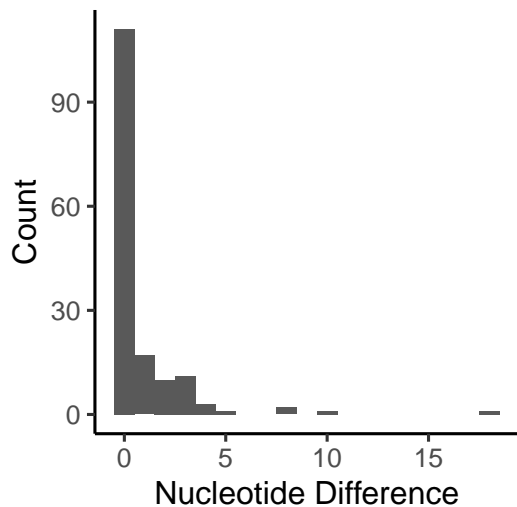
### IGLV3-25\*02

85 sequences assigned  
66 (77.6%) exact matches, in which:  
60 unique CDR3  
3 unique J



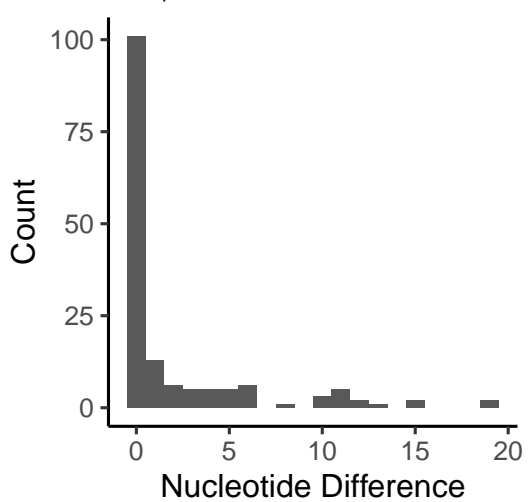
### IGLV3-10\*01

157 sequences assigned  
111 (70.7%) exact matches, in which:  
99 unique CDR3  
4 unique J



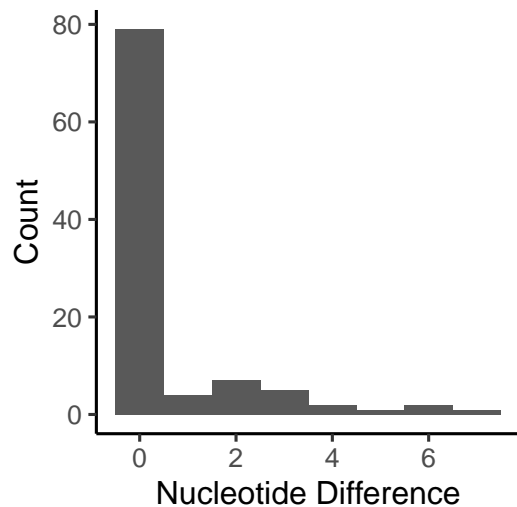
### IGLV3-21\*02

157 sequences assigned  
101 (64.3%) exact matches, in which:  
86 unique CDR3  
3 unique J



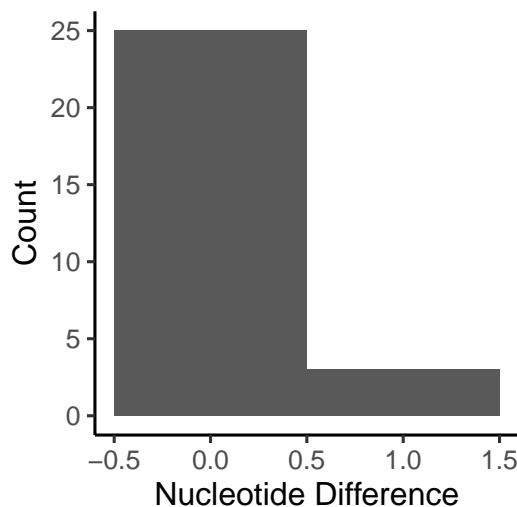
### IGLV3-25\*03

101 sequences assigned  
79 (78.2%) exact matches, in which:  
74 unique CDR3  
3 unique J



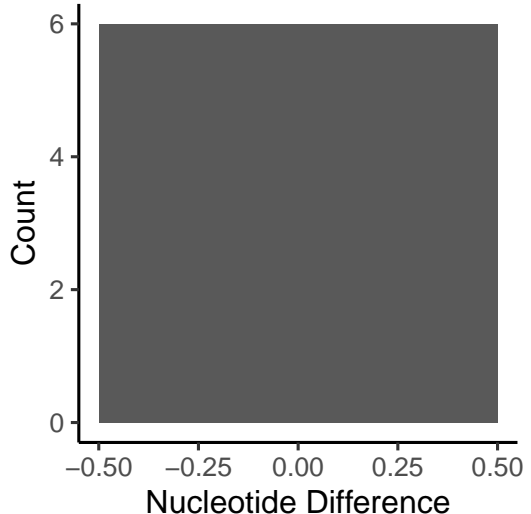
### IGLV3-16\*01

28 sequences assigned  
25 (89.3%) exact matches, in which:  
24 unique CDR3  
3 unique J



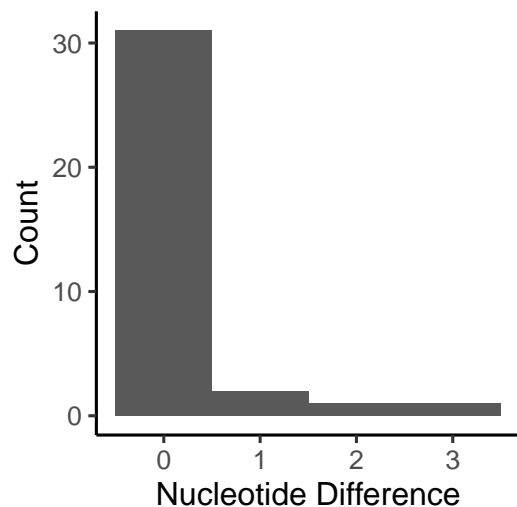
### IGLV3-22\*01

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



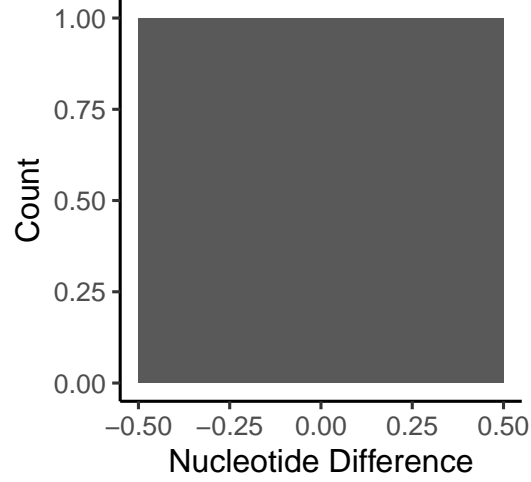
### IGLV3-27\*01

36 sequences assigned  
31 (86.1%) exact matches, in which:  
31 unique CDR3  
3 unique J



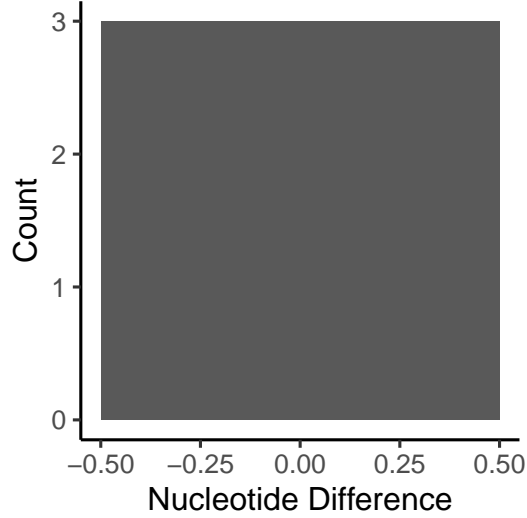
### IGLV4-3\*01

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



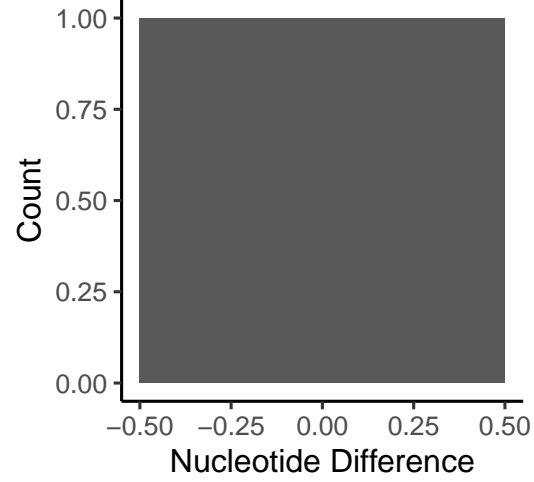
### IGLV5-37\*01

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



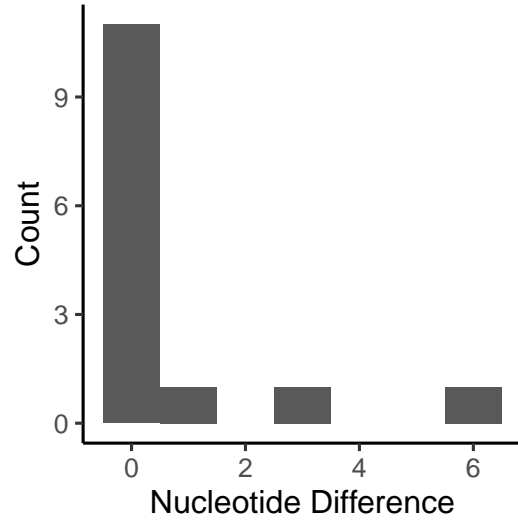
### IGLV5-48\*01

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



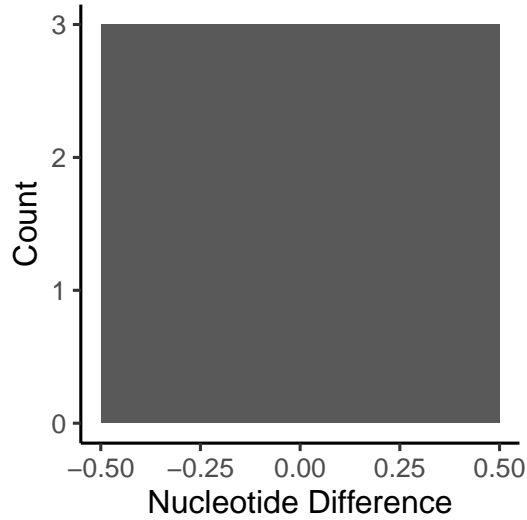
### IGLV4-60\*02

14 sequences assigned  
11 (78.6%) exact matches, in which:  
9 unique CDR3  
2 unique J



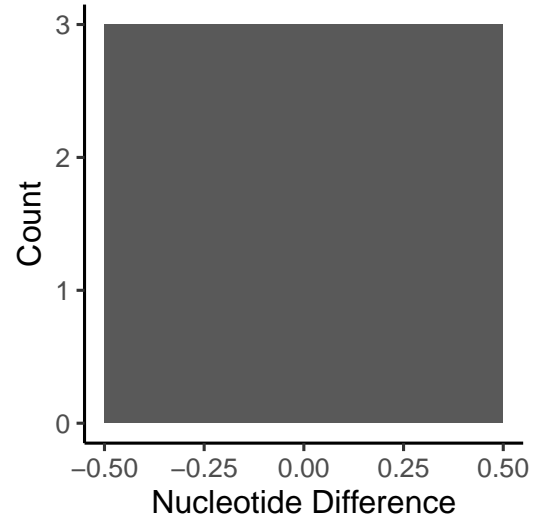
### IGLV5-39\*01

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



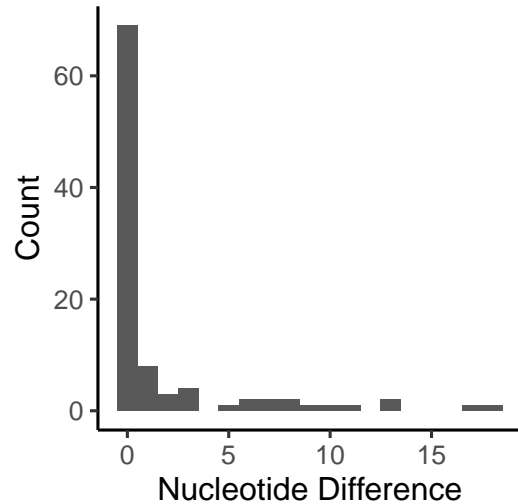
### IGLV5-52\*01

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



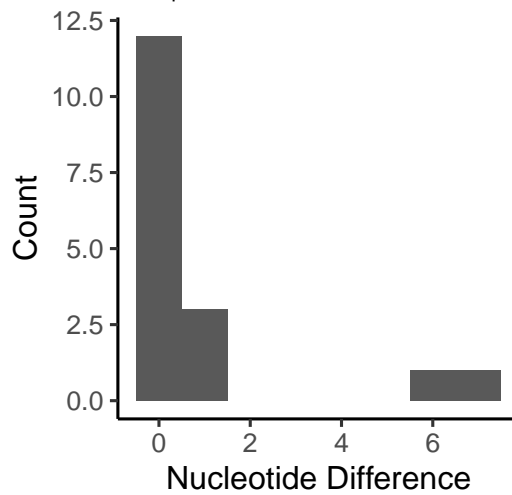
### IGLV4-69\*01

100 sequences assigned  
69 (69%) exact matches, in which:  
57 unique CDR3  
3 unique J



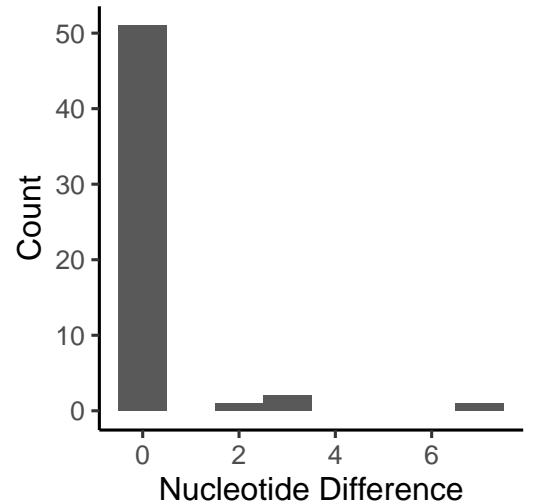
### IGLV5-45\*01

17 sequences assigned  
12 (70.6%) exact matches, in which:  
11 unique CDR3  
2 unique J



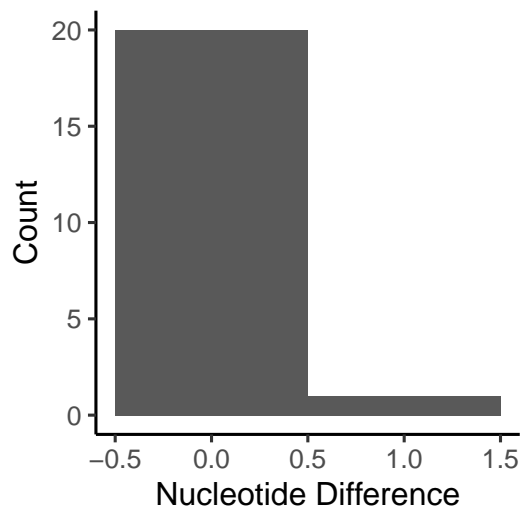
### IGLV6-57\*01

56 sequences assigned  
51 (91.1%) exact matches, in which:  
49 unique CDR3  
2 unique J



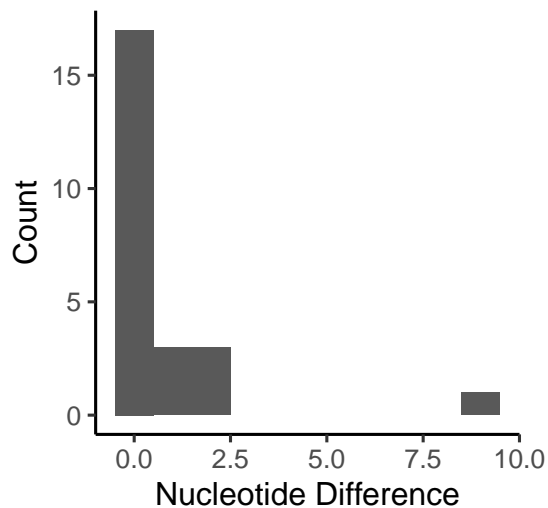
## IGLV6-57\*02

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



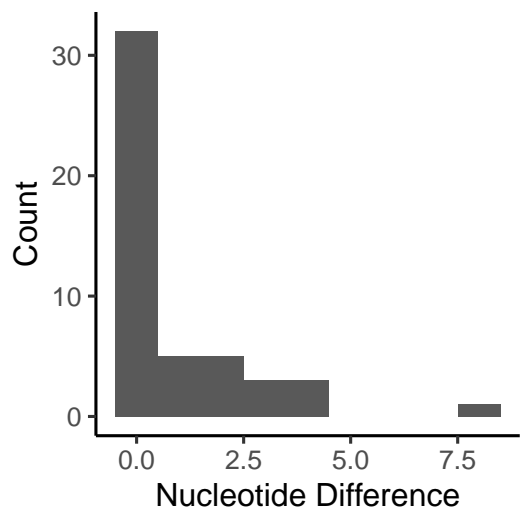
## IGLV8-61\*01

24 sequences assigned  
17 (70.8%) exact matches, in which:  
16 unique CDR3  
2 unique J



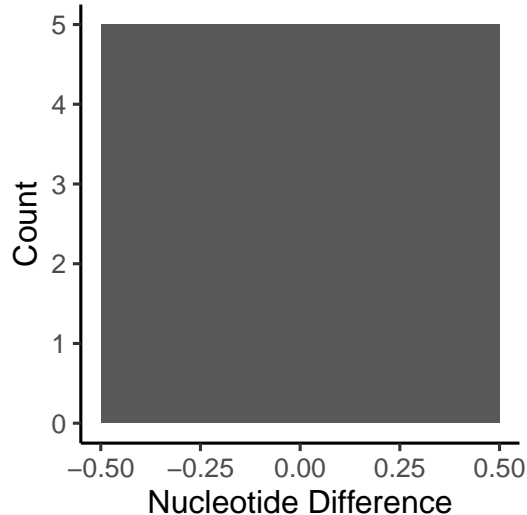
## IGLV7-43\*01

50 sequences assigned  
32 (64%) exact matches, in which:  
32 unique CDR3  
2 unique J



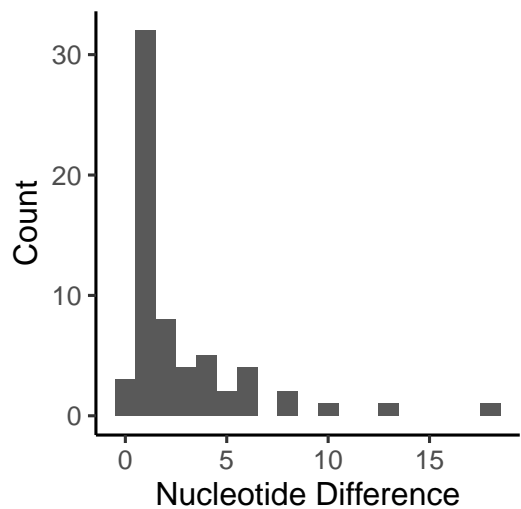
## IGLV9-49\*01

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



## IGLV7-46\*01

64 sequences assigned  
3 (4.7%) exact matches, in which:  
3 unique CDR3  
1 unique J



Allele Usage



Warning – no inferred sequences found.