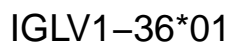
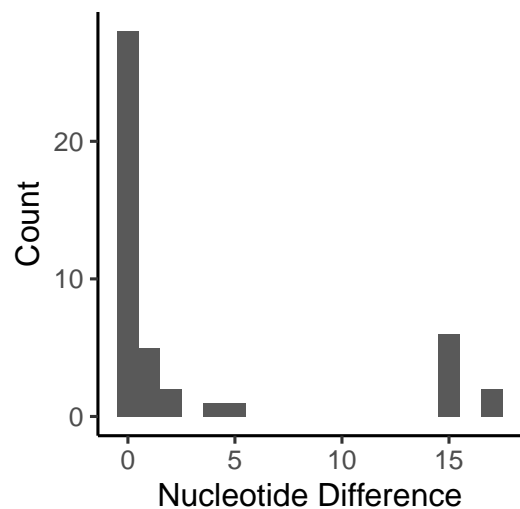


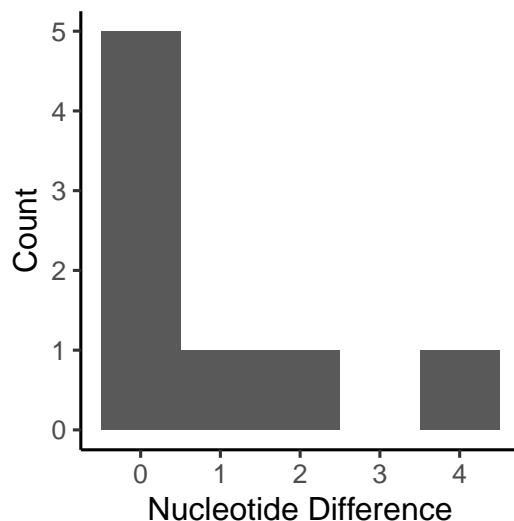
48 sequences assigned  
25 (52.1%) exact matches, in which:  
9 unique CDR3  
2 unique J



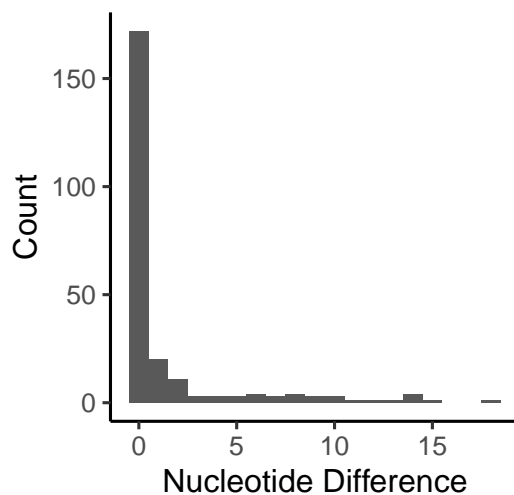
46 sequences assigned  
28 (60.9%) exact matches, in which:  
18 unique CDR3  
2 unique J



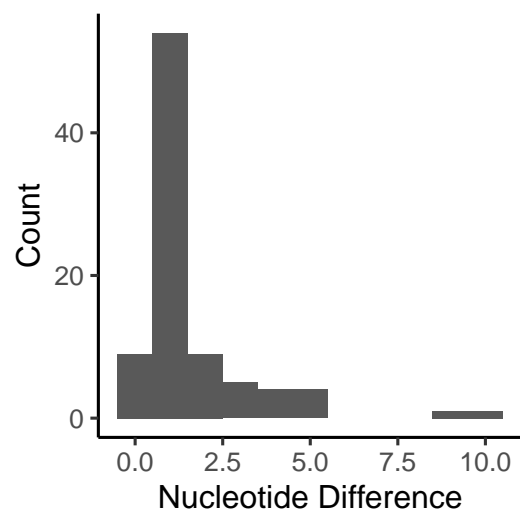
8 sequences assigned  
5 (62.5%) exact matches, in which:  
3 unique CDR3  
2 unique J



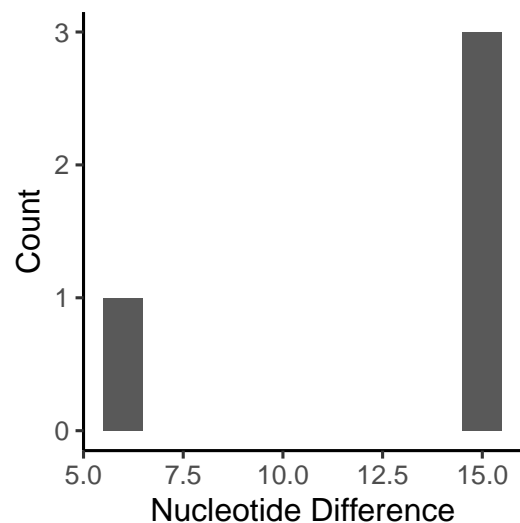
288 sequences assigned  
172 (59.7%) exact matches, in which:  
90 unique CDR3  
3 unique J



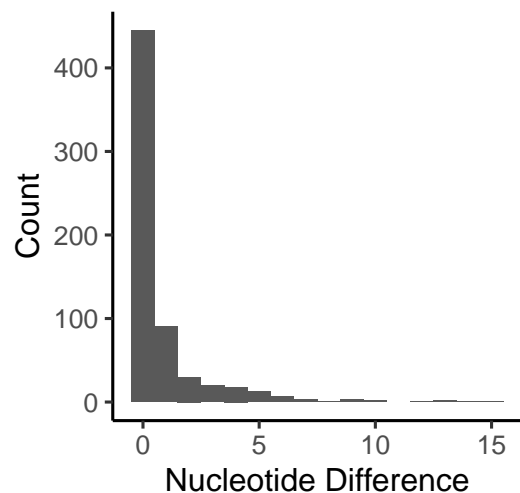
88 sequences assigned  
9 (10.2%) exact matches, in which:  
9 unique CDR3  
2 unique J



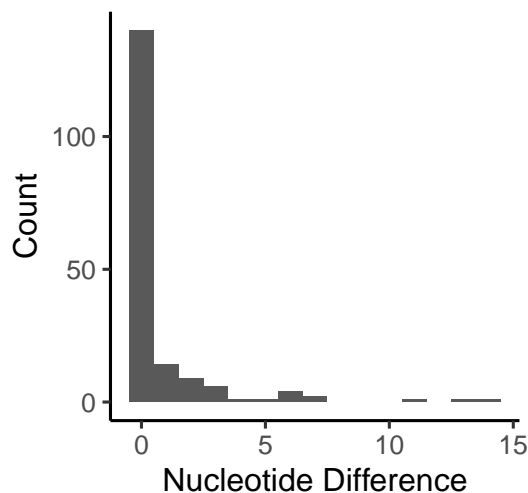
4 sequences assigned  
No exact matches.



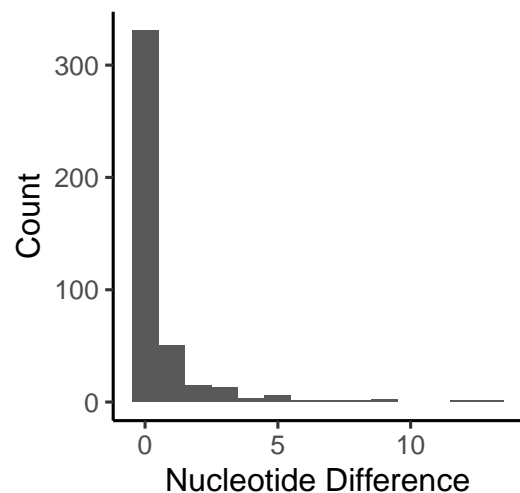
639 sequences assigned  
445 (69.6%) exact matches, in which:  
259 unique CDR3  
3 unique J



180 sequences assigned  
140 (77.8%) exact matches, in which:  
83 unique CDR3  
2 unique J

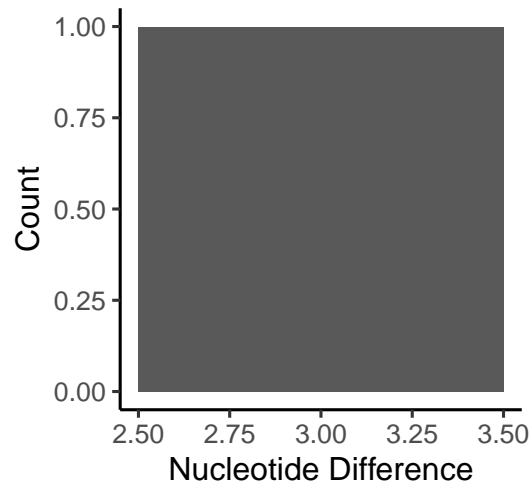


425 sequences assigned  
331 (77.9%) exact matches, in which:  
181 unique CDR3  
4 unique J



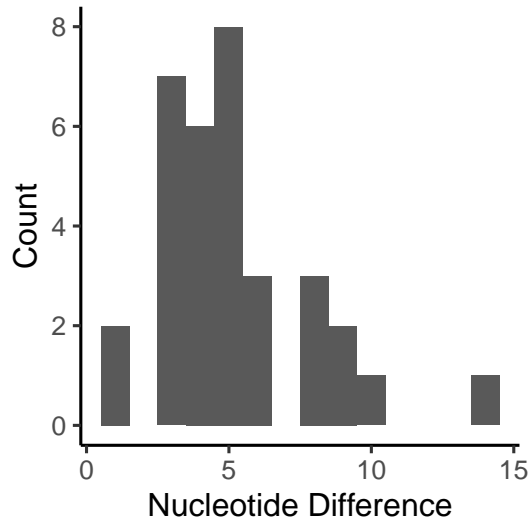
### IGLV2-5\*02

1 sequences assigned  
No exact matches.



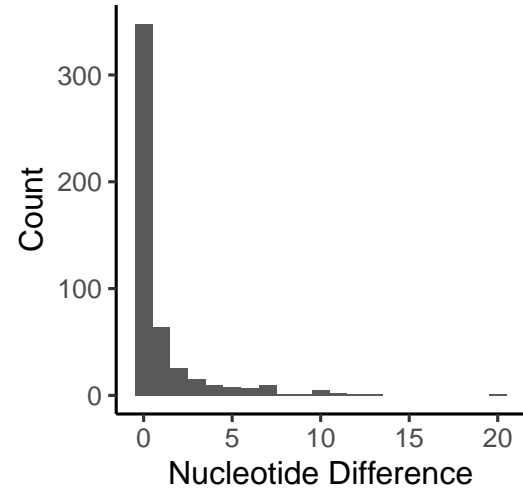
### IGLV2-14\*03EXT3

33 sequences assigned  
No exact matches.



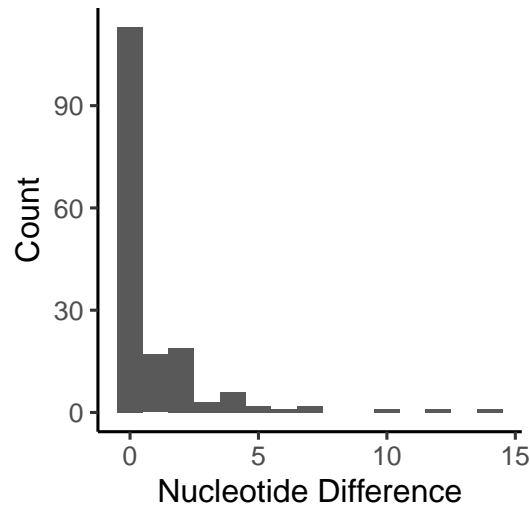
### IGLV2-23\*02EXT5

502 sequences assigned  
348 (69.3%) exact matches, in which:  
233 unique CDR3  
3 unique J



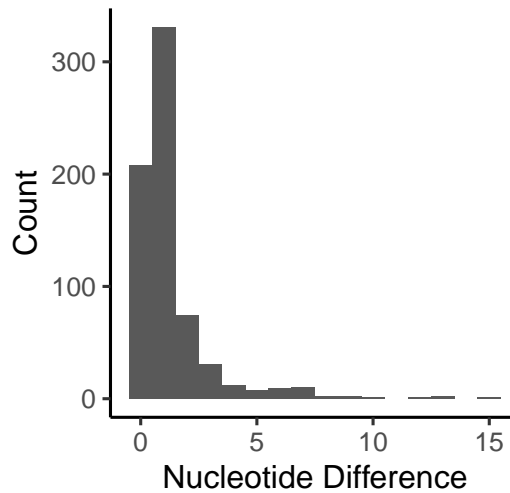
### IGLV2-8\*01

167 sequences assigned  
113 (67.7%) exact matches, in which:  
83 unique CDR3  
2 unique J



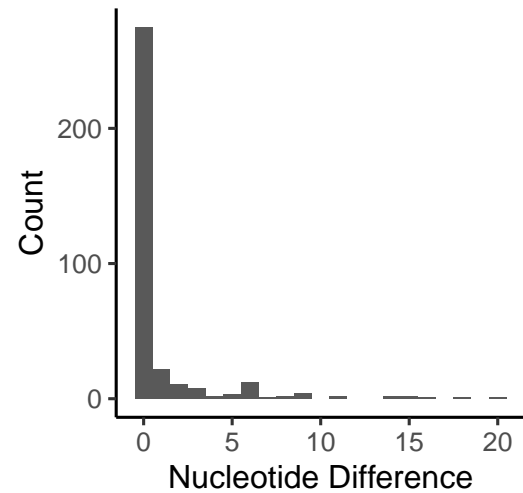
### IGLV2-14\*04EXT3

693 sequences assigned  
208 (30%) exact matches, in which:  
166 unique CDR3  
3 unique J



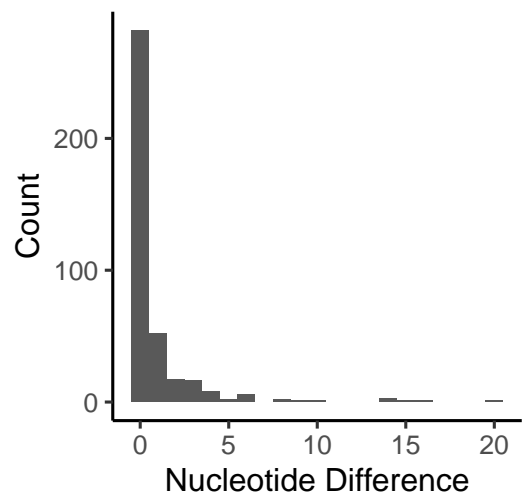
### IGLV3-1\*01

351 sequences assigned  
275 (78.3%) exact matches, in which:  
177 unique CDR3  
3 unique J



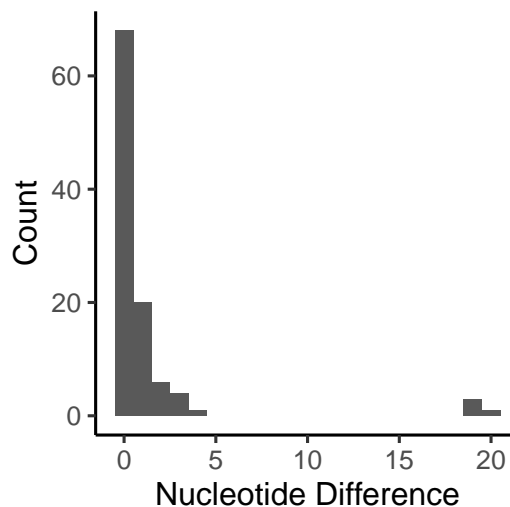
### IGLV2-11\*01

393 sequences assigned  
282 (71.8%) exact matches, in which:  
168 unique CDR3  
3 unique J



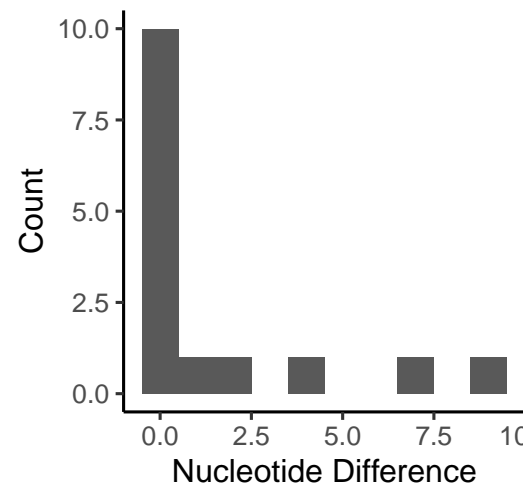
### IGLV2-18\*02

103 sequences assigned  
68 (66%) exact matches, in which:  
32 unique CDR3  
2 unique J



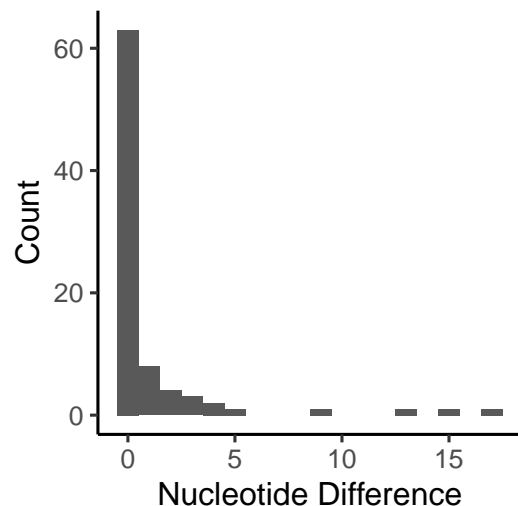
### IGLV3-9\*01EXT5

15 sequences assigned  
10 (66.7%) exact matches, in which:  
8 unique CDR3  
2 unique J



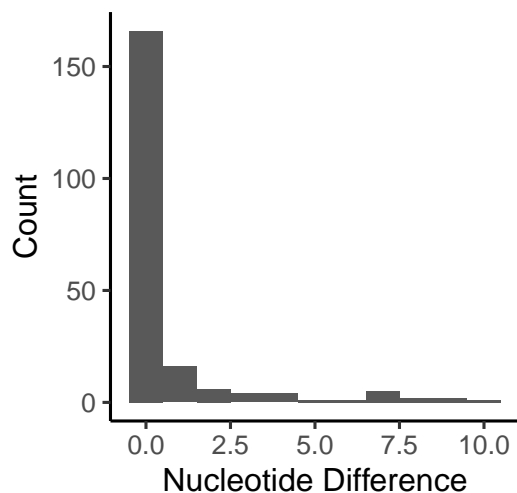
### IGLV3-10\*01

85 sequences assigned  
63 (74.1%) exact matches, in which:  
40 unique CDR3  
2 unique J



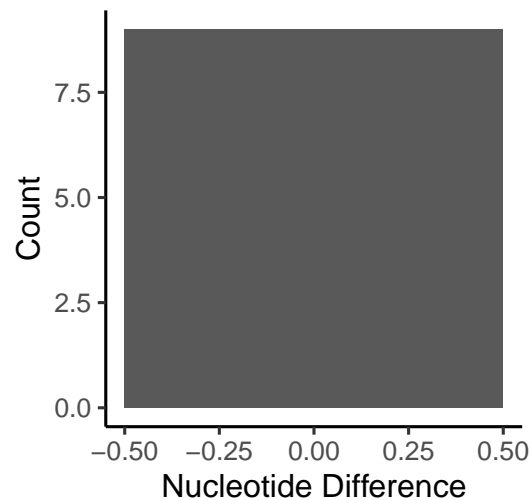
### IGLV3-19\*01

208 sequences assigned  
166 (79.8%) exact matches, in which:  
98 unique CDR3  
3 unique J



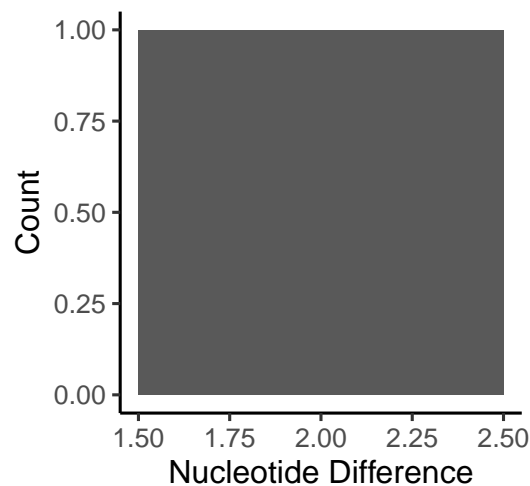
### IGLV3-22\*01

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



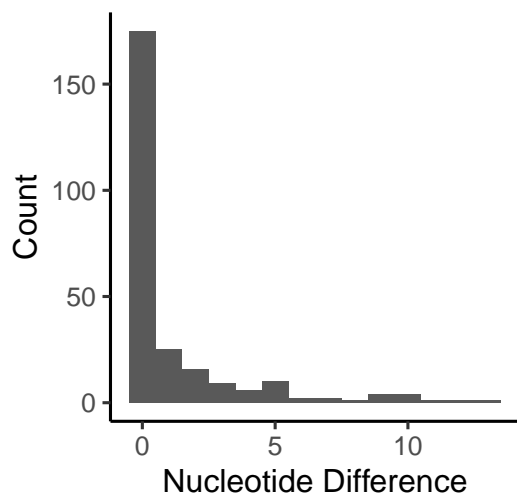
### IGLV3-12\*02

1 sequences assigned  
No exact matches.



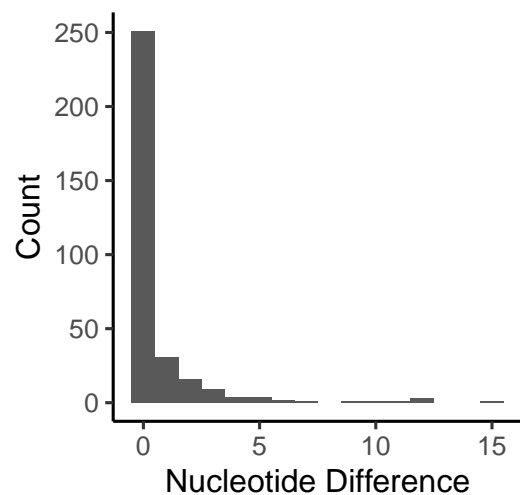
### IGLV3-21\*02

257 sequences assigned  
175 (68.1%) exact matches, in which:  
121 unique CDR3  
4 unique J



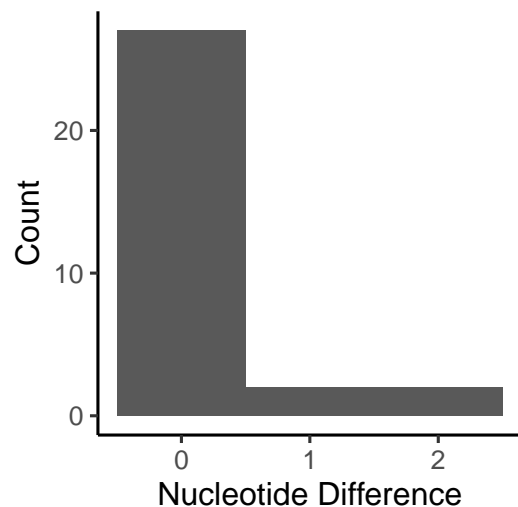
### IGLV3-25\*03

325 sequences assigned  
251 (77.2%) exact matches, in which:  
144 unique CDR3  
4 unique J



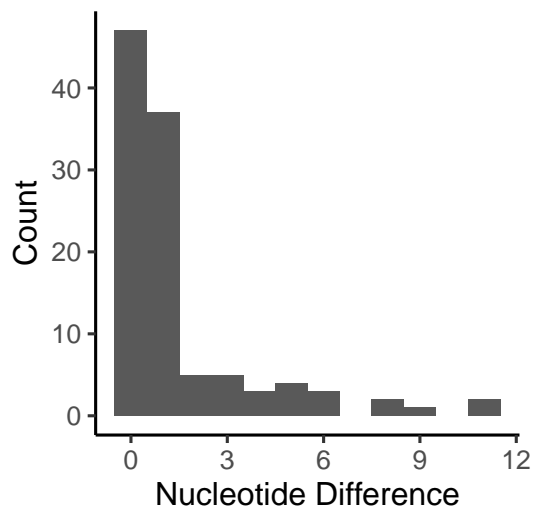
### IGLV3-16\*01

31 sequences assigned  
27 (87.1%) exact matches, in which:  
22 unique CDR3  
3 unique J



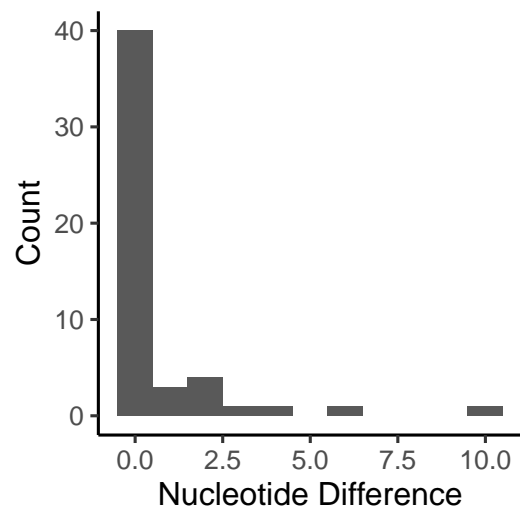
### IGLV3-21\*04

109 sequences assigned  
47 (43.1%) exact matches, in which:  
28 unique CDR3  
3 unique J



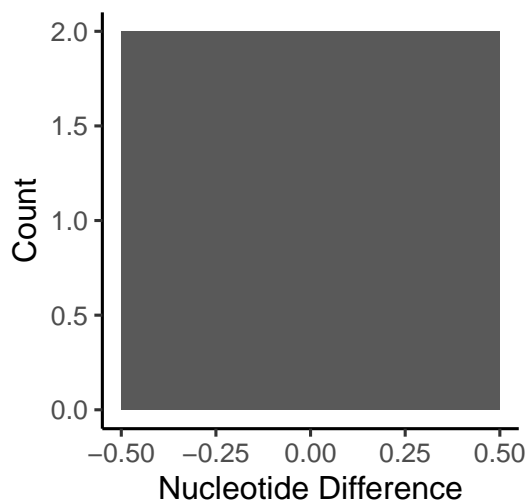
### IGLV3-27\*01

51 sequences assigned  
40 (78.4%) exact matches, in which:  
27 unique CDR3  
2 unique J



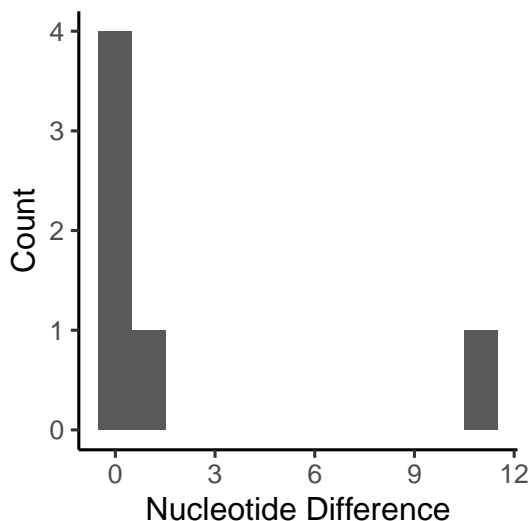
### IGLV4-3\*01

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



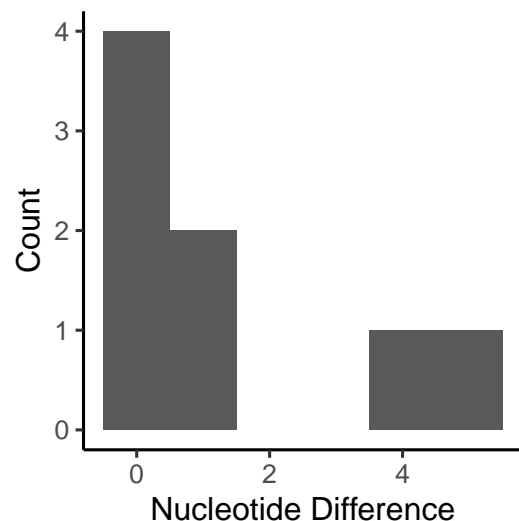
### IGLV5-37\*01

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



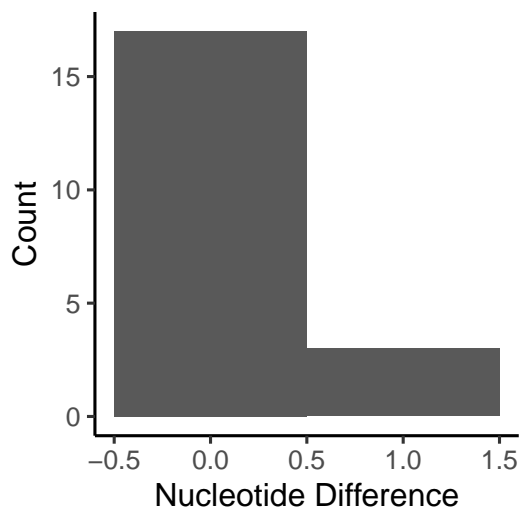
### IGLV5-45\*03

8 sequences assigned  
4 (50%) exact matches, in which:  
4 unique CDR3  
2 unique J



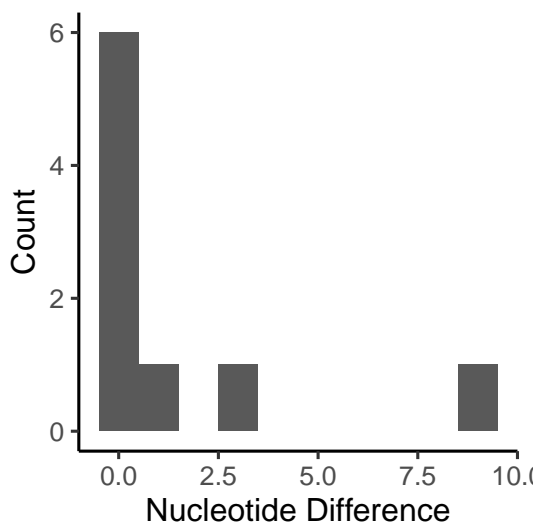
### IGLV4-60\*03EXT5

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



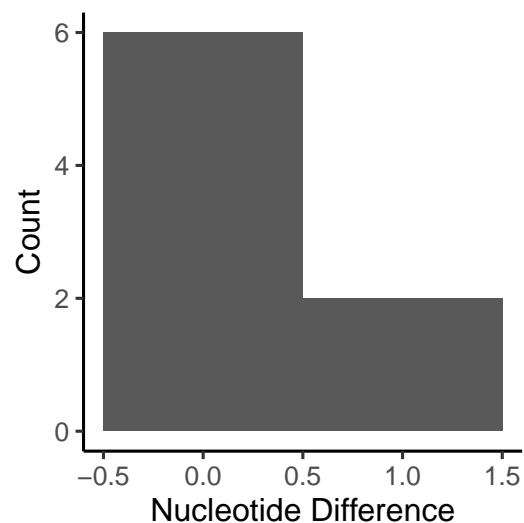
### IGLV5-39\*01

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



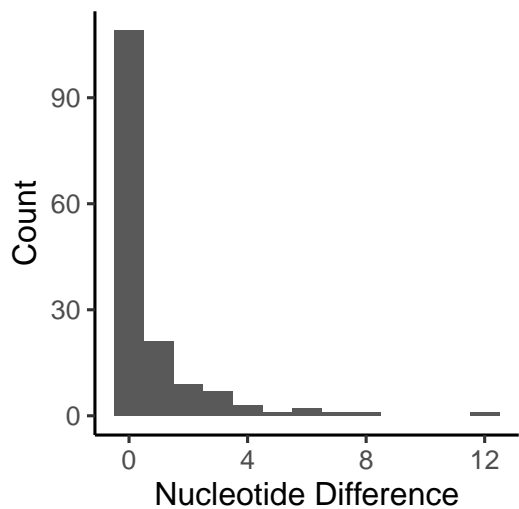
### IGLV5-52\*01

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



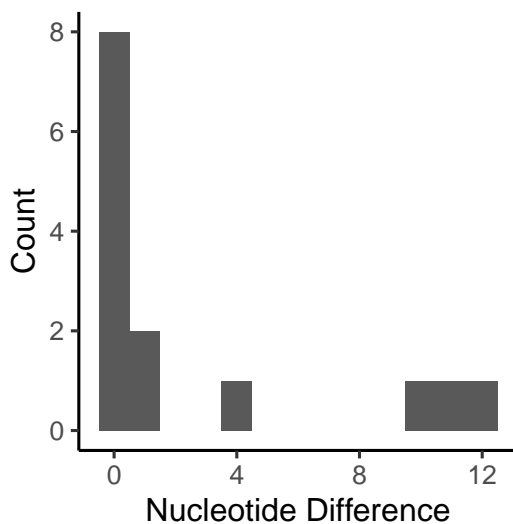
### IGLV4-69\*01

155 sequences assigned  
109 (70.3%) exact matches, in which:  
67 unique CDR3  
3 unique J



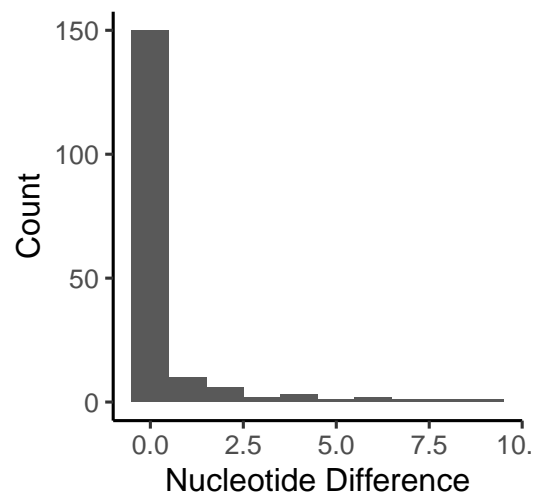
### IGLV5-45\*01

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



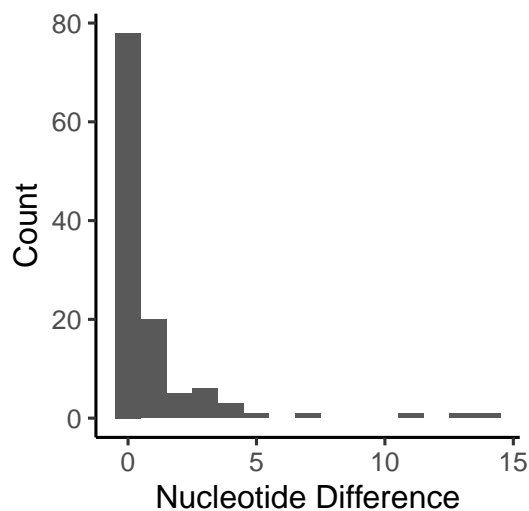
### IGLV6-57\*03

177 sequences assigned  
150 (84.7%) exact matches, in which:  
104 unique CDR3  
3 unique J



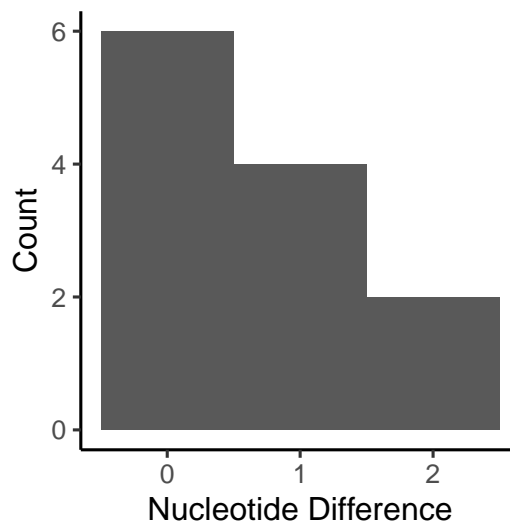
## IGLV7-43\*01

117 sequences assigned  
78 (66.7%) exact matches, in which:  
48 unique CDR3  
2 unique J



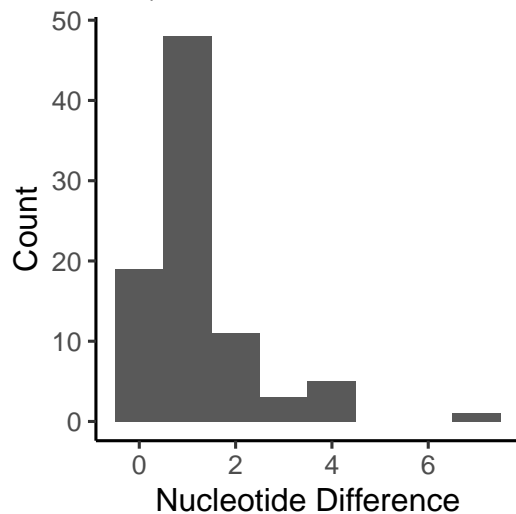
## IGLV9-49\*01

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



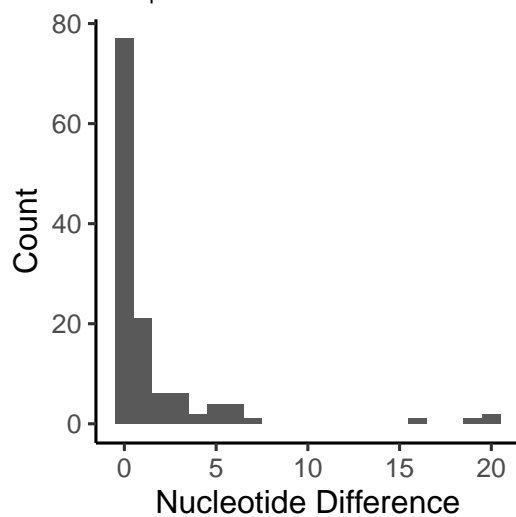
## IGLV7-46\*01

87 sequences assigned  
19 (21.8%) exact matches, in which:  
15 unique CDR3  
1 unique J



## IGLV8-61\*01

125 sequences assigned  
77 (61.6%) exact matches, in which:  
30 unique CDR3  
3 unique J



Allele Usage



Warning – no inferred sequences found.