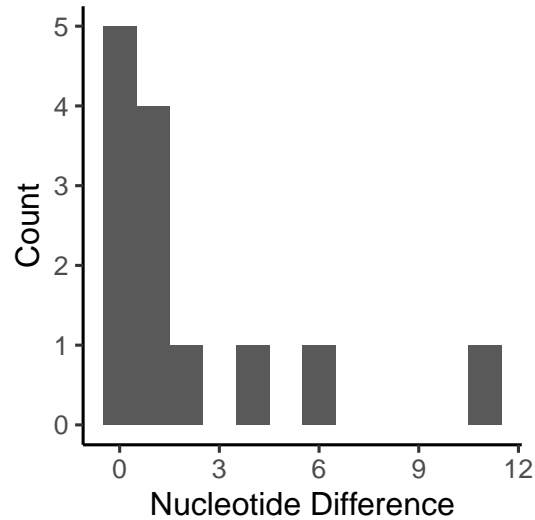


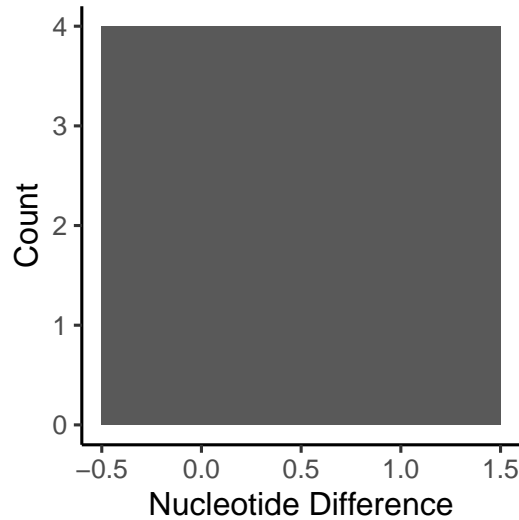
### IGLV10-54\*01

13 sequences assigned  
5 (38.5%) exact matches, in which:  
4 unique CDR3  
1 unique J



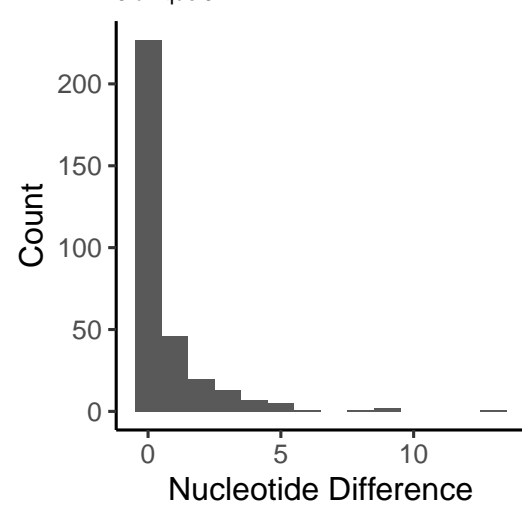
### IGLV1-41\*01

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



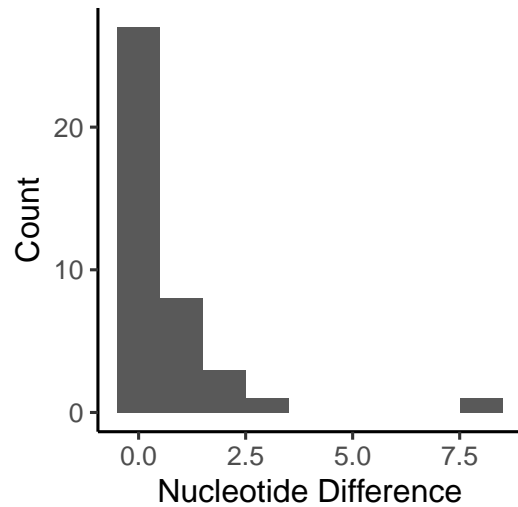
### IGLV1-51\*02

323 sequences assigned  
227 (70.3%) exact matches, in which:  
184 unique CDR3  
3 unique J



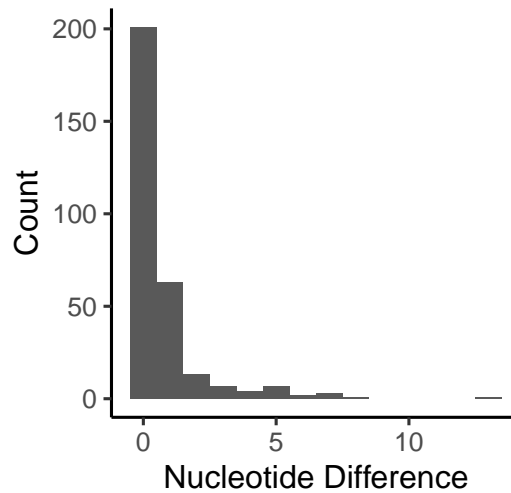
### IGLV1-36\*01

40 sequences assigned  
27 (67.5%) exact matches, in which:  
25 unique CDR3  
3 unique J



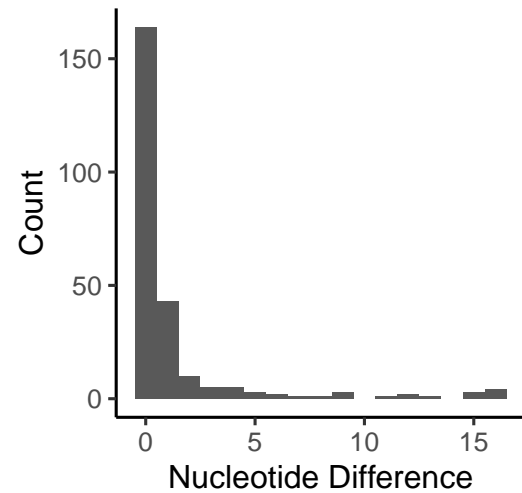
### IGLV1-44\*01

302 sequences assigned  
201 (66.6%) exact matches, in which:  
179 unique CDR3  
4 unique J



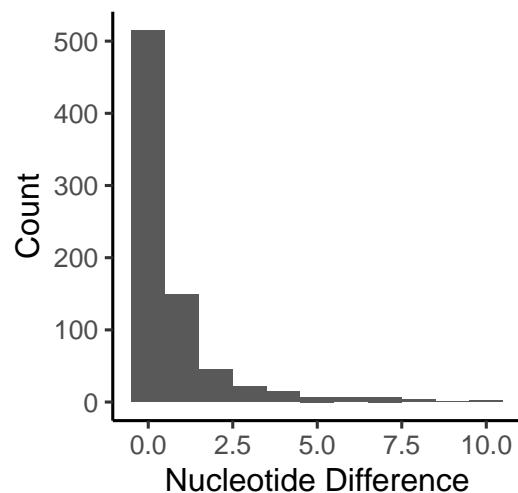
### IGLV2-8\*01

248 sequences assigned  
164 (66.1%) exact matches, in which:  
146 unique CDR3  
4 unique J



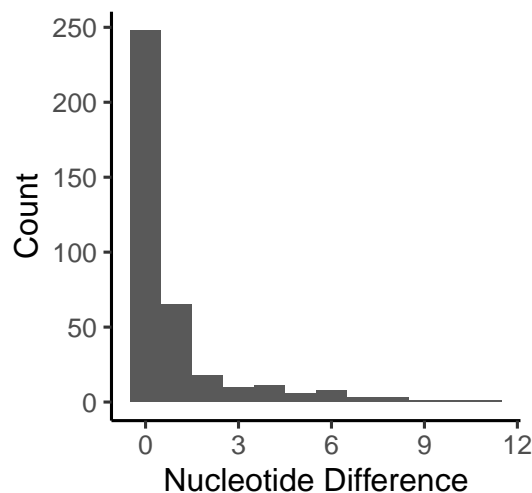
### IGLV1-40\*01

773 sequences assigned  
515 (66.6%) exact matches, in which:  
440 unique CDR3  
3 unique J



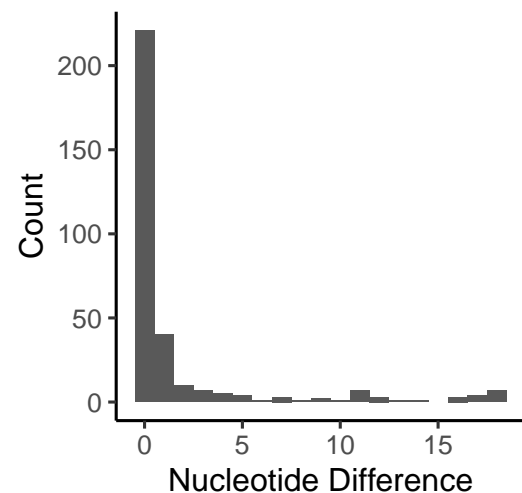
### IGLV1-47\*01

375 sequences assigned  
248 (66.1%) exact matches, in which:  
215 unique CDR3  
3 unique J



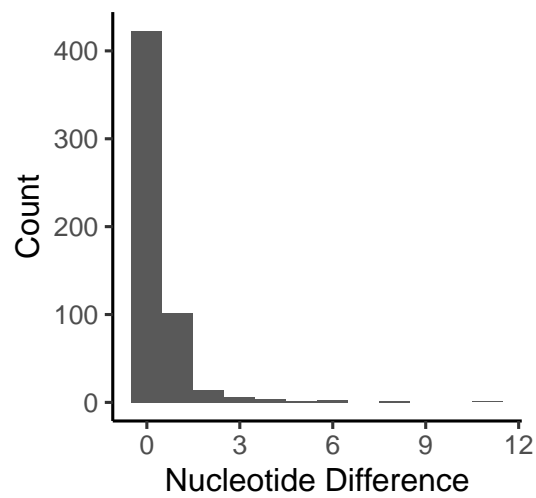
### IGLV2-11\*01

321 sequences assigned  
221 (68.8%) exact matches, in which:  
185 unique CDR3  
2 unique J



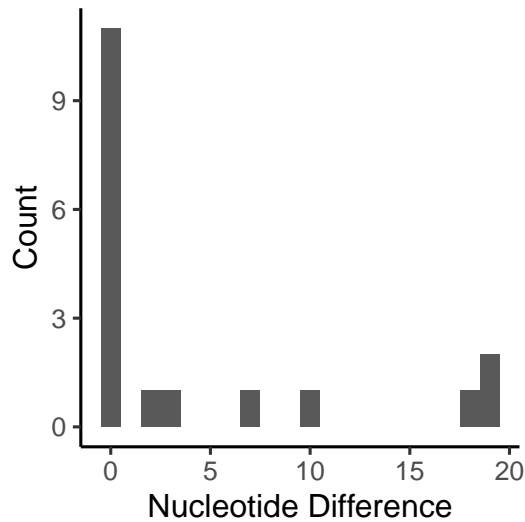
### IGLV2-14\*01

557 sequences assigned  
423 (75.9%) exact matches, in which:  
386 unique CDR3  
3 unique J



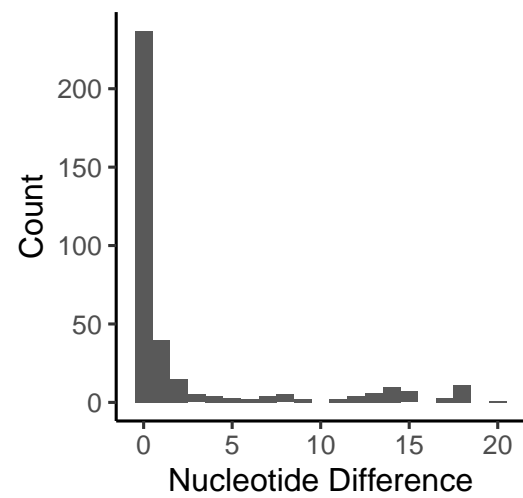
### IGLV2-18\*02

18 sequences assigned  
11 (61.1%) exact matches, in which:  
9 unique CDR3  
2 unique J



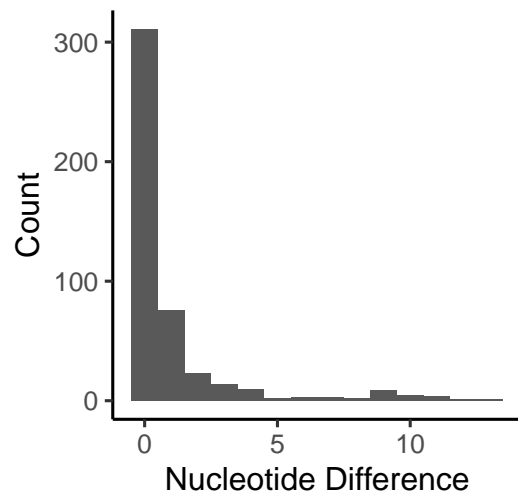
### IGLV3-1\*01

361 sequences assigned  
237 (65.7%) exact matches, in which:  
218 unique CDR3  
3 unique J



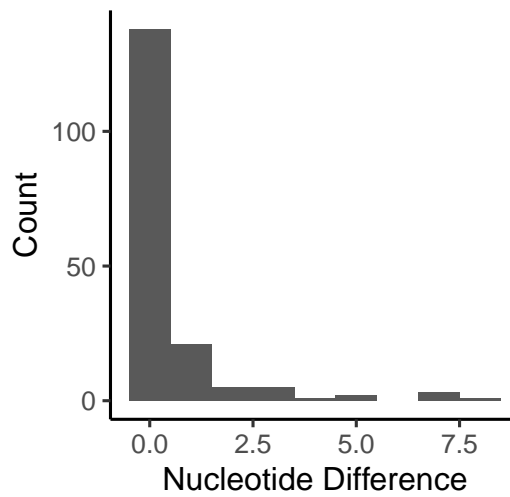
### IGLV2-14\*03EXT3

464 sequences assigned  
311 (67%) exact matches, in which:  
280 unique CDR3  
3 unique J



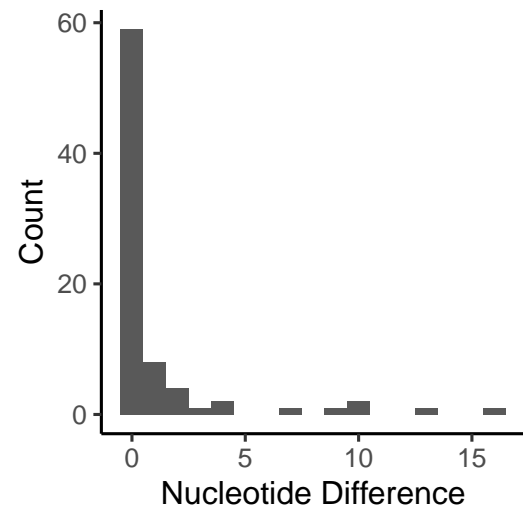
### IGLV2-23\*02EXT5

176 sequences assigned  
138 (78.4%) exact matches, in which:  
131 unique CDR3  
3 unique J



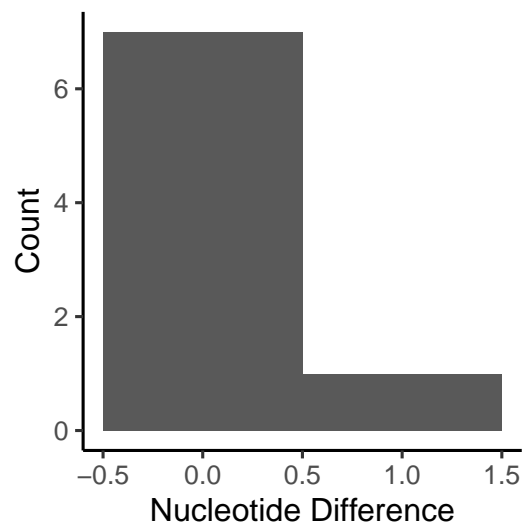
### IGLV3-9\*01EXT5

80 sequences assigned  
59 (73.8%) exact matches, in which:  
57 unique CDR3  
2 unique J



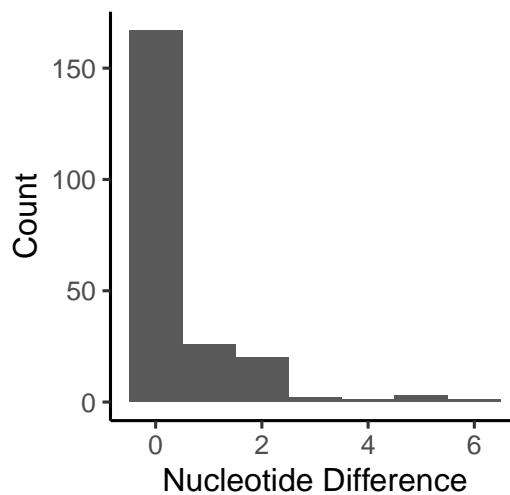
### IGLV2-18\*01

8 sequences assigned  
7 (87.5%) exact matches, in which:  
7 unique CDR3  
2 unique J



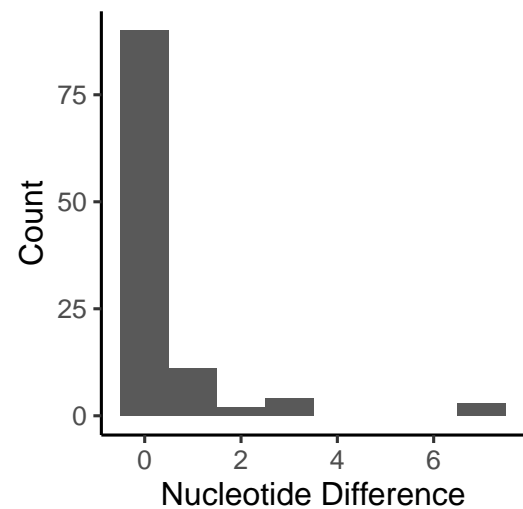
### IGLV2-23\*03EXT5

220 sequences assigned  
167 (75.9%) exact matches, in which:  
159 unique CDR3  
4 unique J



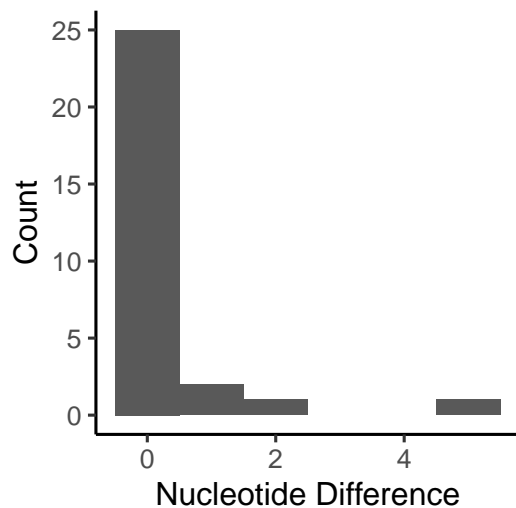
### IGLV3-10\*01

110 sequences assigned  
90 (81.8%) exact matches, in which:  
83 unique CDR3  
2 unique J



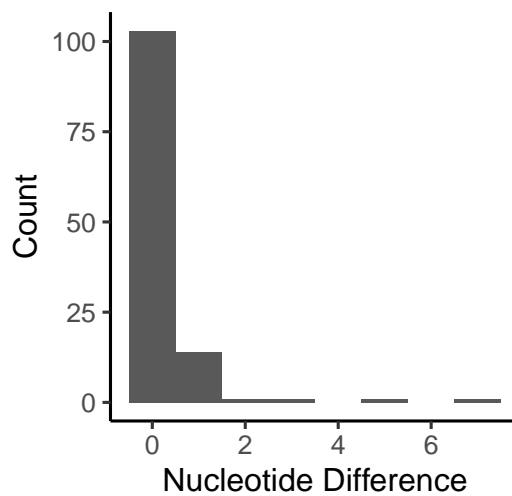
### IGLV3-16\*01

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



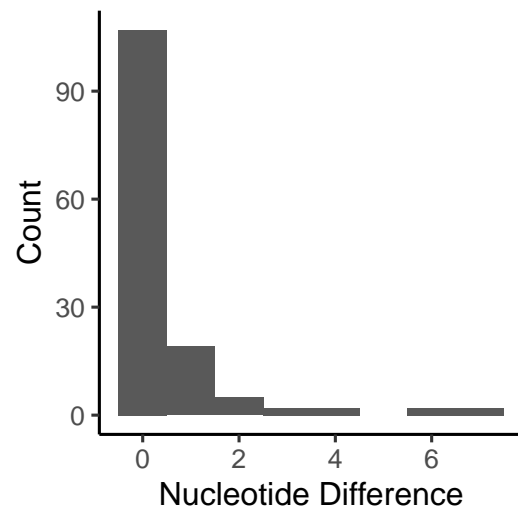
### IGLV3-21\*04

121 sequences assigned  
103 (85.1%) exact matches, in which:  
97 unique CDR3  
3 unique J



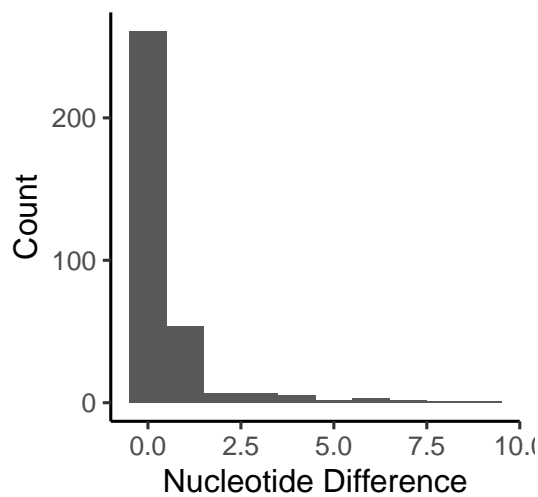
### IGLV3-25\*03

139 sequences assigned  
107 (77%) exact matches, in which:  
98 unique CDR3  
3 unique J



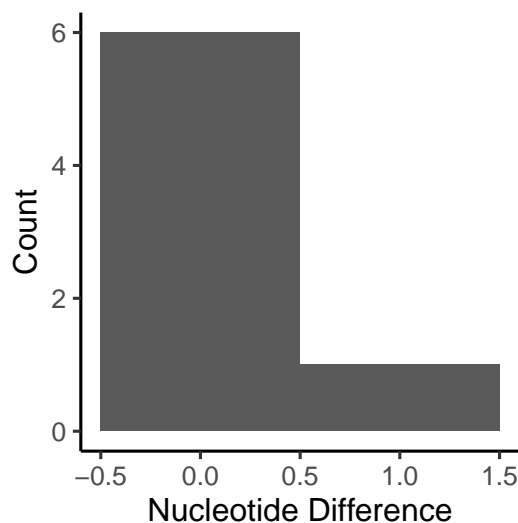
### IGLV3-19\*01

343 sequences assigned  
261 (76.1%) exact matches, in which:  
223 unique CDR3  
3 unique J



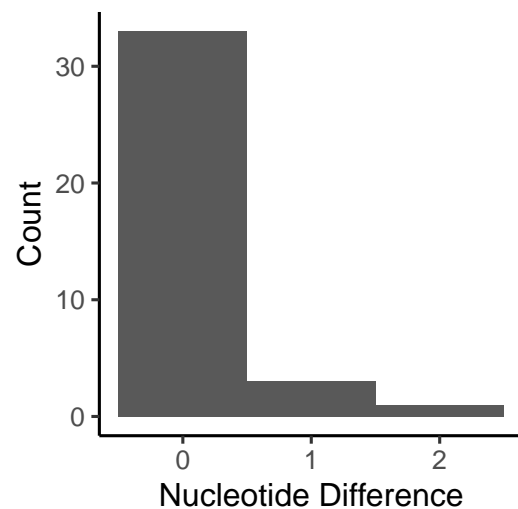
### IGLV3-22\*01

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



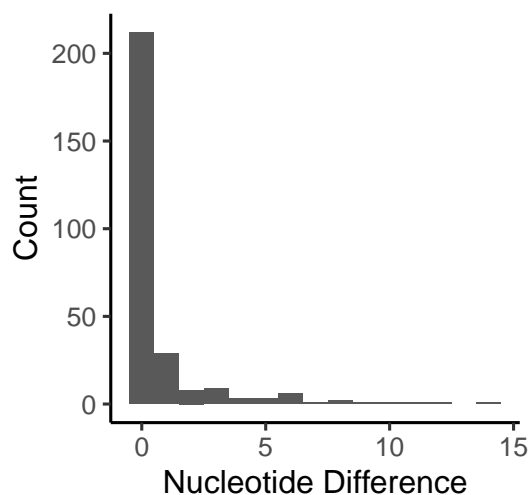
### IGLV3-27\*01

37 sequences assigned  
33 (89.2%) exact matches, in which:  
32 unique CDR3  
2 unique J



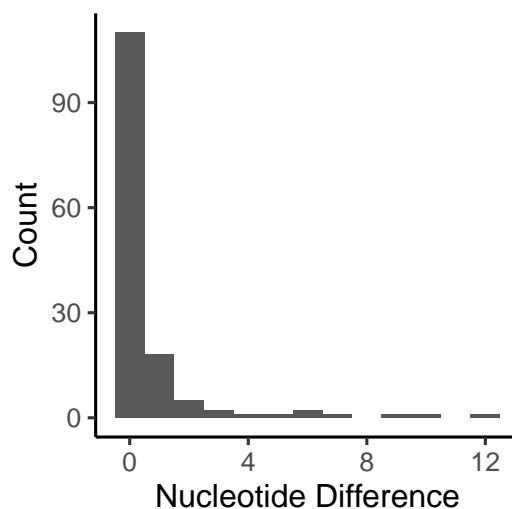
### IGLV3-21\*02

278 sequences assigned  
212 (76.3%) exact matches, in which:  
196 unique CDR3  
3 unique J



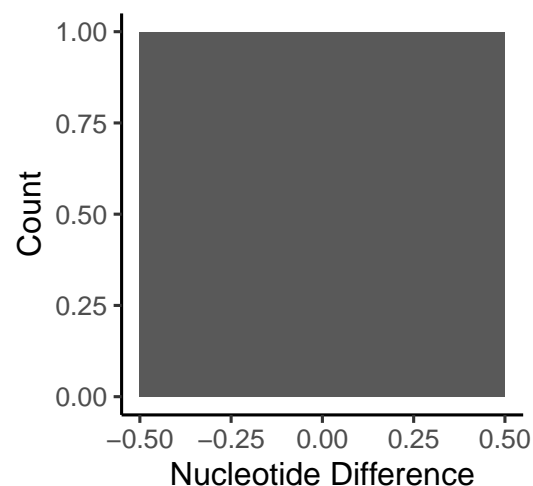
### IGLV3-25\*02

143 sequences assigned  
110 (76.9%) exact matches, in which:  
103 unique CDR3  
3 unique J



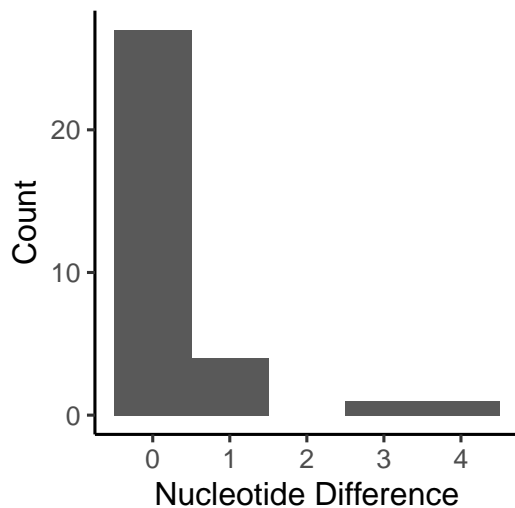
### IGLV4-3\*01

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



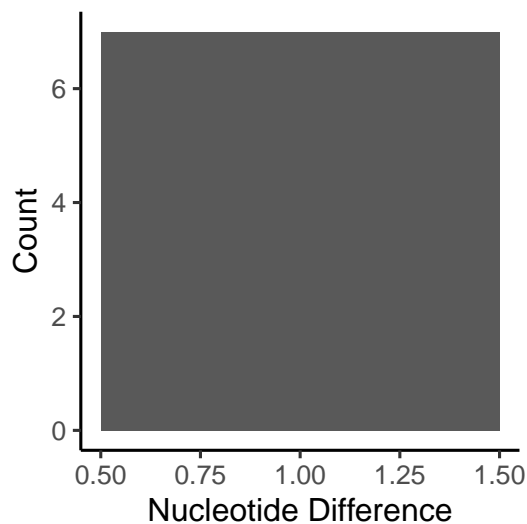
### IGLV4-60\*02

33 sequences assigned  
27 (81.8%) exact matches, in which:  
24 unique CDR3  
3 unique J



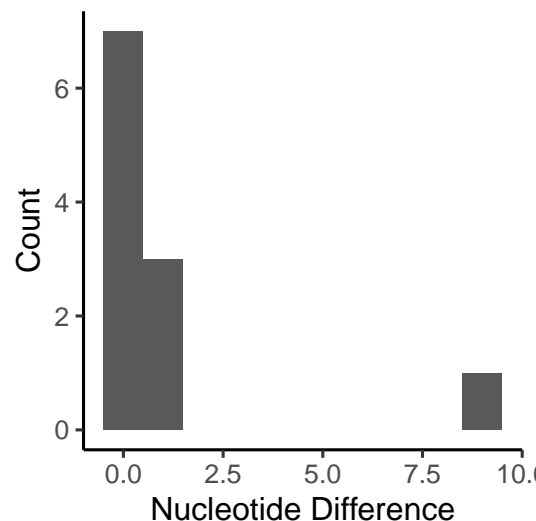
### IGLV5-37\*01

7 sequences assigned  
No exact matches.



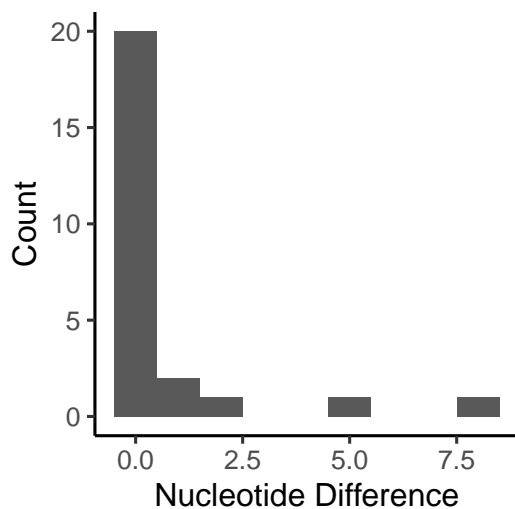
### IGLV5-45\*03

11 sequences assigned  
7 (63.6%) exact matches, in which:  
7 unique CDR3  
2 unique J



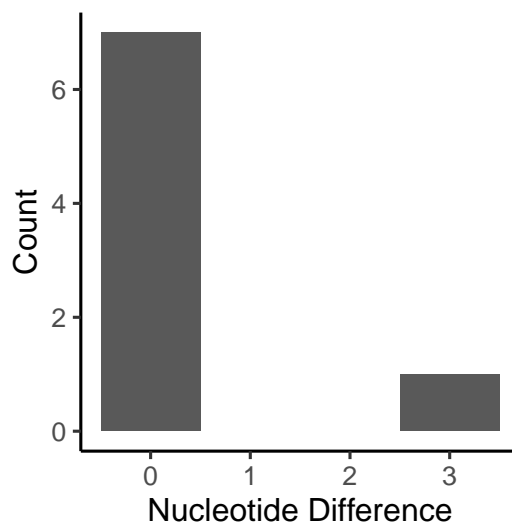
### IGLV4-60\*03EXT5

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



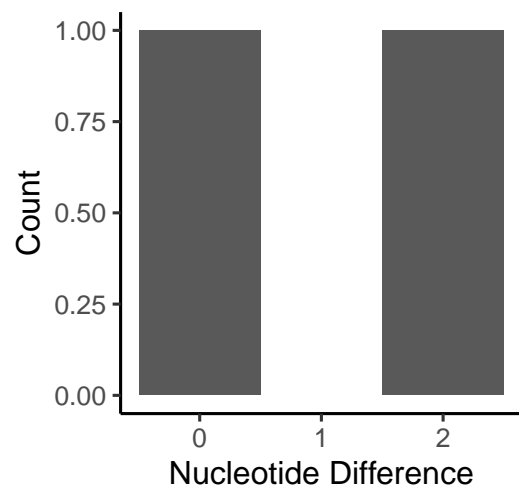
### IGLV5-39\*01

8 sequences assigned  
7 (87.5%) exact matches, in which:  
6 unique CDR3  
1 unique J



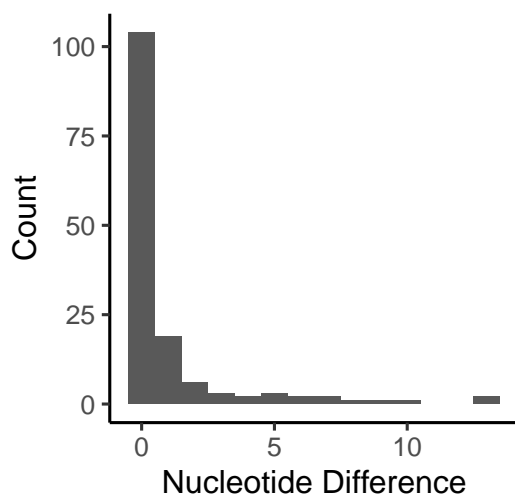
### IGLV5-48\*01

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



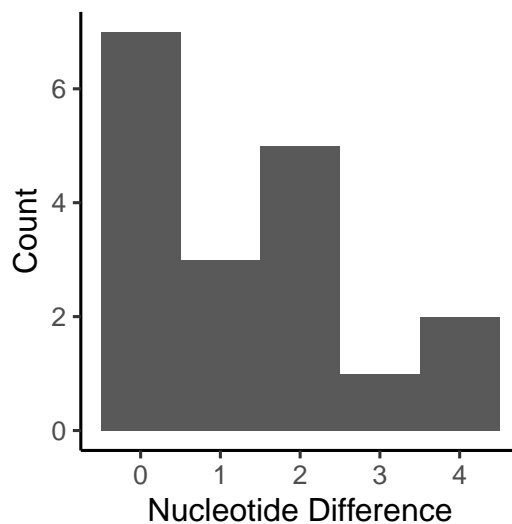
### IGLV4-69\*01

146 sequences assigned  
104 (71.2%) exact matches, in which:  
90 unique CDR3  
3 unique J



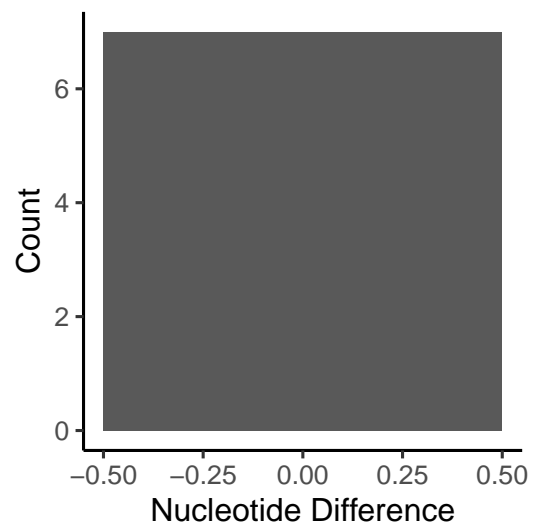
### IGLV5-45\*01

18 sequences assigned  
7 (38.9%) exact matches, in which:  
7 unique CDR3  
2 unique J



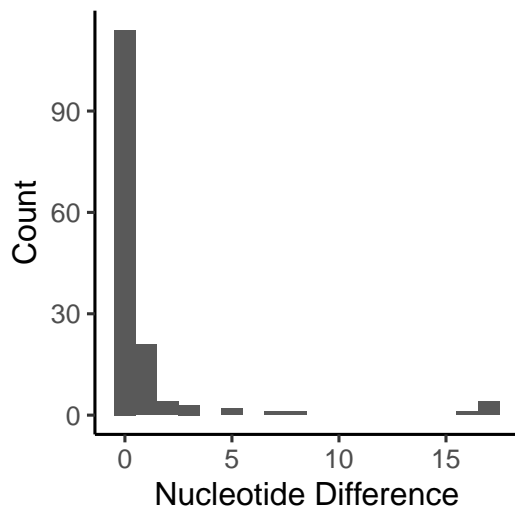
### IGLV5-52\*01

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



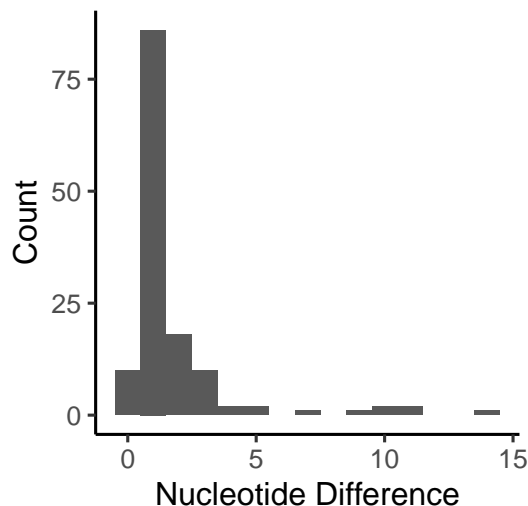
### IGLV6-57\*01

151 sequences assigned  
114 (75.5%) exact matches, in which:  
105 unique CDR3  
3 unique J



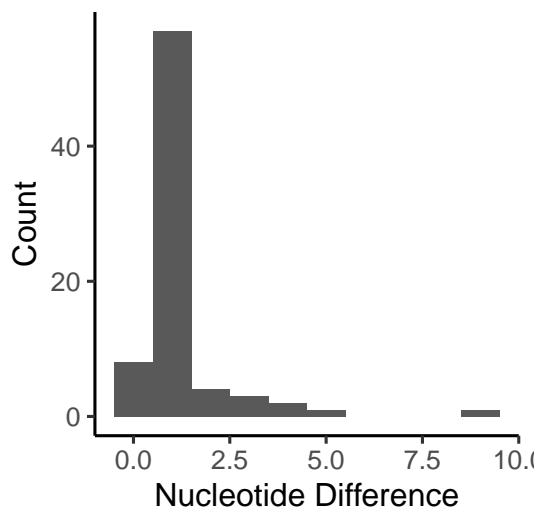
### IGLV7-46\*01

135 sequences assigned  
10 (7.4%) exact matches, in which:  
10 unique CDR3  
2 unique J



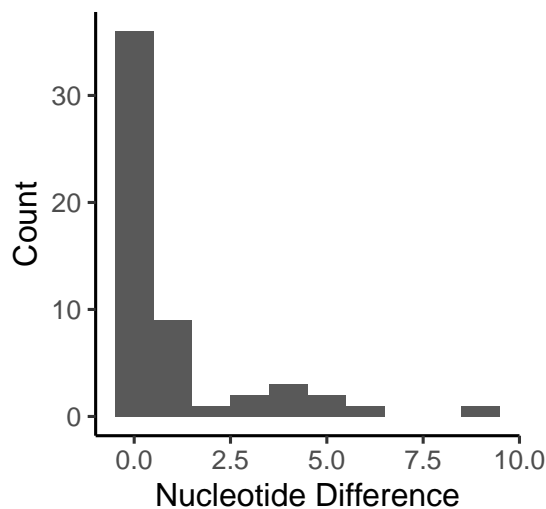
### IGLV6-57\*03

76 sequences assigned  
8 (10.5%) exact matches, in which:  
8 unique CDR3  
1 unique J



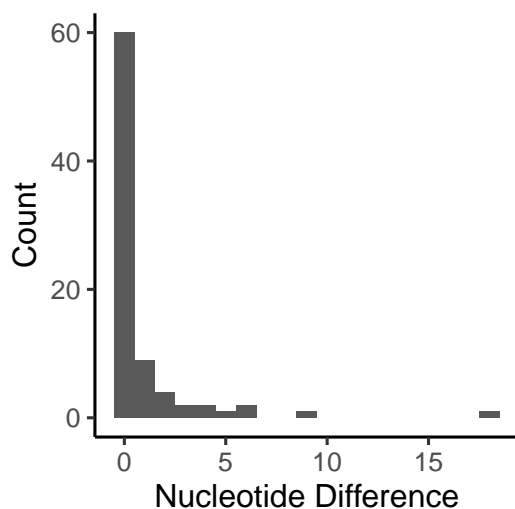
### IGLV8-61\*01

55 sequences assigned  
36 (65.5%) exact matches, in which:  
27 unique CDR3  
3 unique J



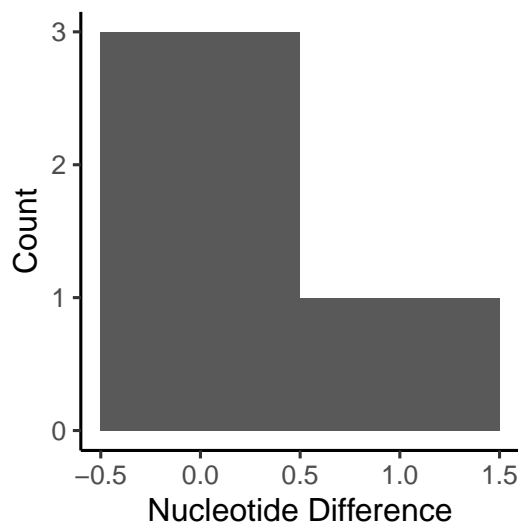
### IGLV7-43\*01

82 sequences assigned  
60 (73.2%) exact matches, in which:  
57 unique CDR3  
2 unique J



### IGLV9-49\*01

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



Allele Usage



Warning – no inferred sequences found.