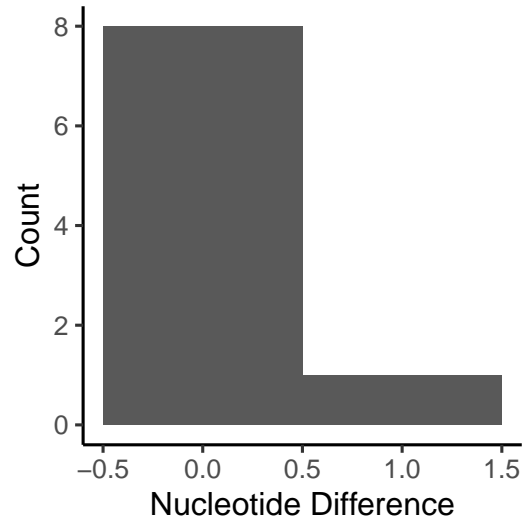


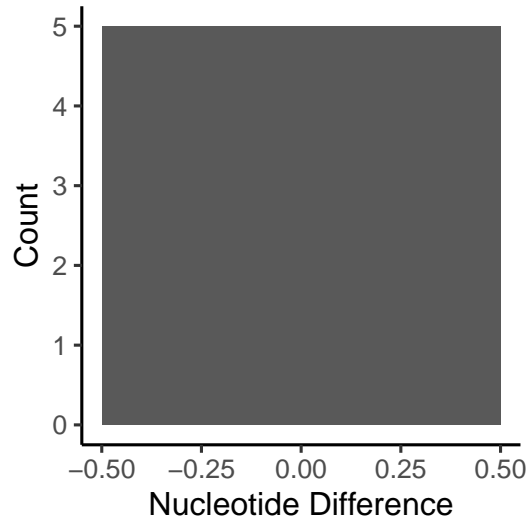
### IGLV10–54\*01

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



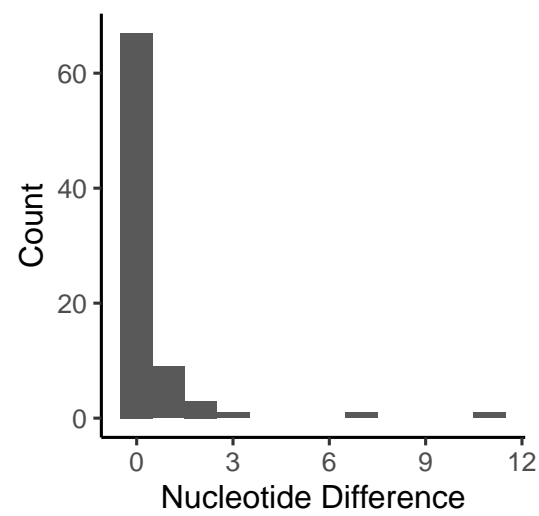
### IGLV1–41\*01

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



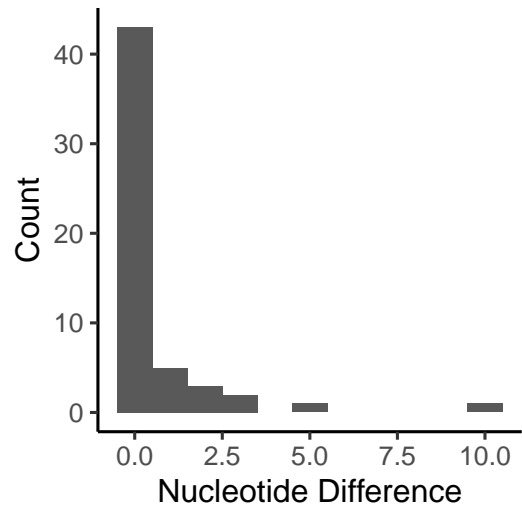
### IGLV1–47\*02

82 sequences assigned  
67 (81.7%) exact matches, in which:  
39 unique CDR3  
3 unique J



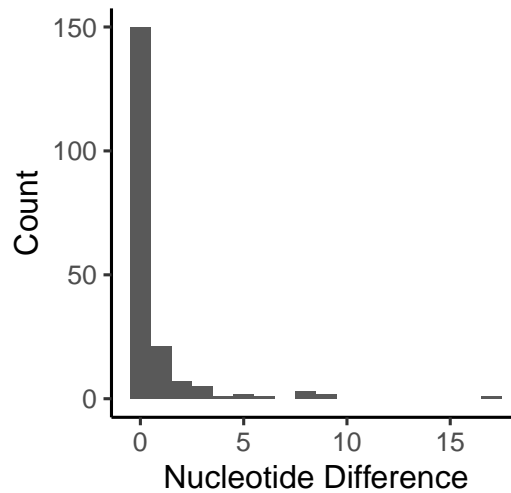
### IGLV1–36\*01

55 sequences assigned  
43 (78.2%) exact matches, in which:  
19 unique CDR3  
3 unique J



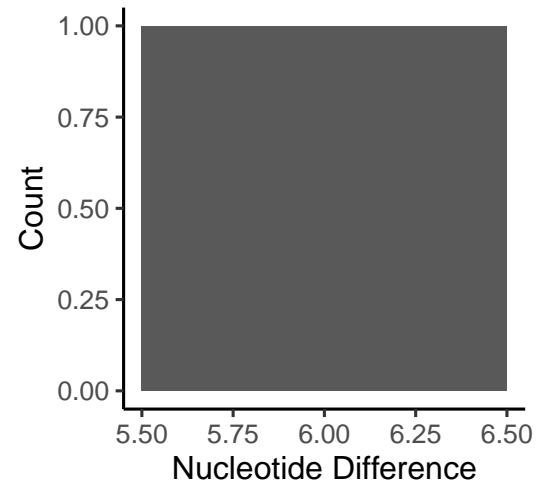
### IGLV1–44\*01

193 sequences assigned  
150 (77.7%) exact matches, in which:  
83 unique CDR3  
3 unique J



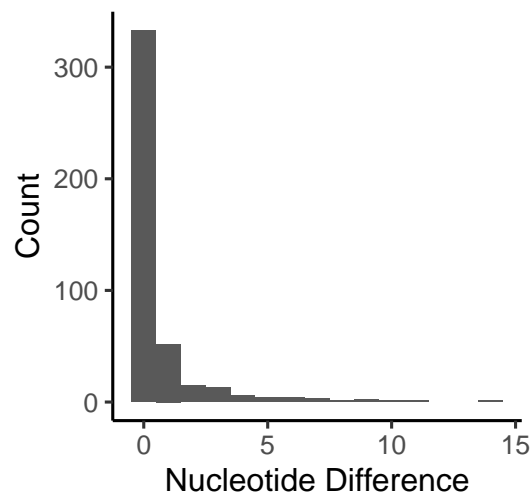
### IGLV1–50\*01

1 sequences assigned  
No exact matches.



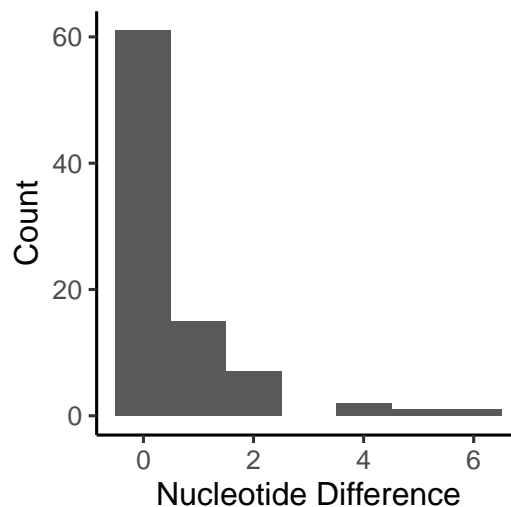
### IGLV1–40\*01

436 sequences assigned  
333 (76.4%) exact matches, in which:  
173 unique CDR3  
3 unique J



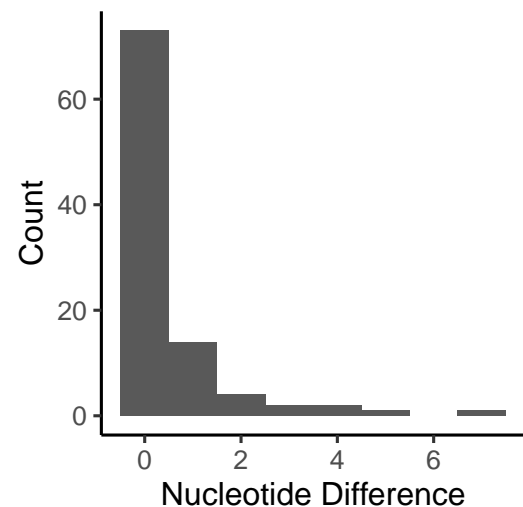
### IGLV1–47\*01

87 sequences assigned  
61 (70.1%) exact matches, in which:  
38 unique CDR3  
2 unique J



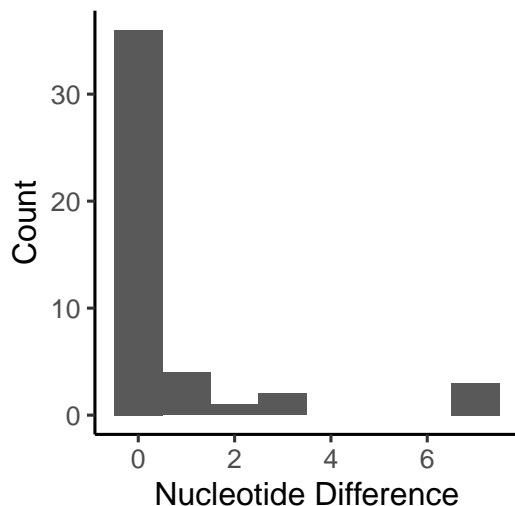
### IGLV1–51\*01

97 sequences assigned  
73 (75.3%) exact matches, in which:  
45 unique CDR3  
3 unique J



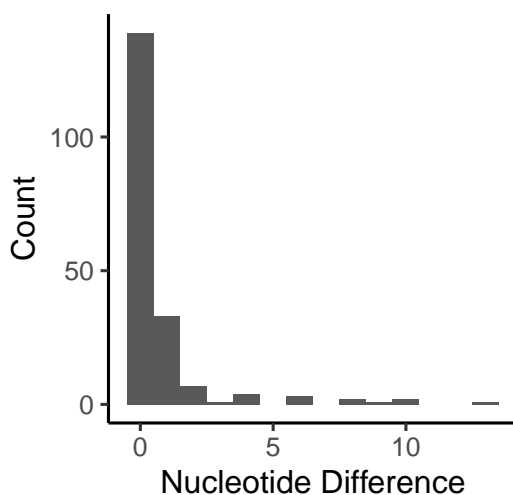
## IGLV1-51\*02

46 sequences assigned  
36 (78.3%) exact matches, in which:  
27 unique CDR3  
2 unique J



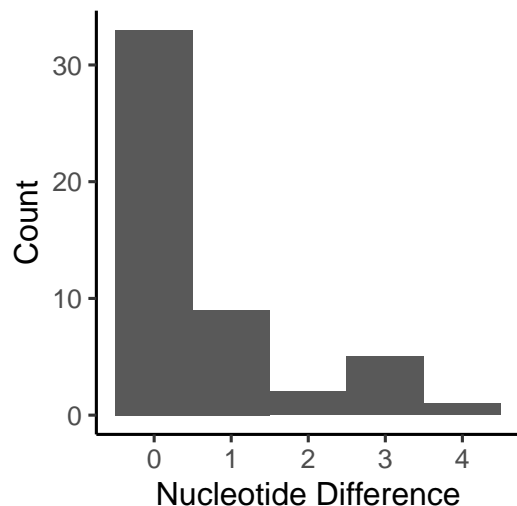
## IGLV2-11\*01

193 sequences assigned  
139 (72%) exact matches, in which:  
95 unique CDR3  
2 unique J



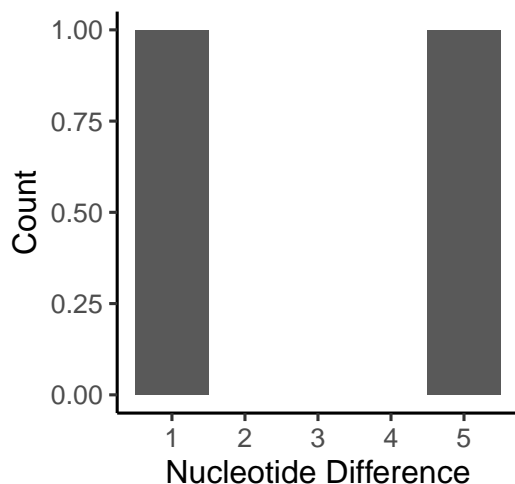
## IGLV2-18\*02

50 sequences assigned  
33 (66%) exact matches, in which:  
15 unique CDR3  
2 unique J



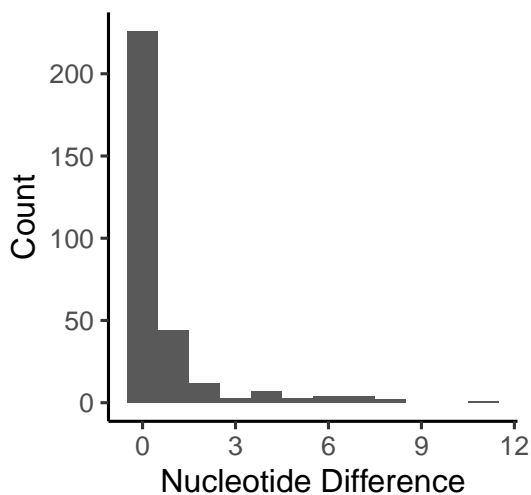
## IGLV2-5\*01

2 sequences assigned  
No exact matches.



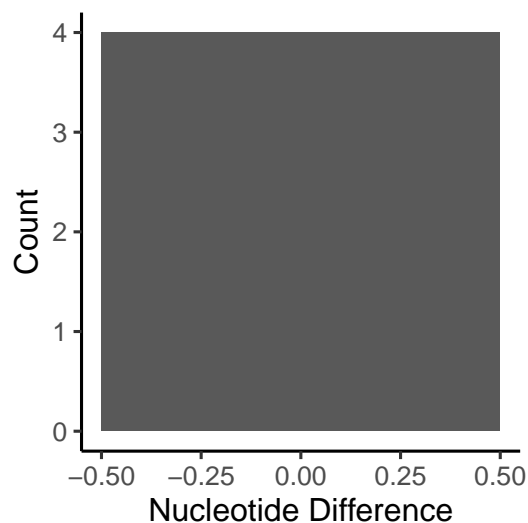
## IGLV2-14\*01

306 sequences assigned  
226 (73.9%) exact matches, in which:  
161 unique CDR3  
2 unique J



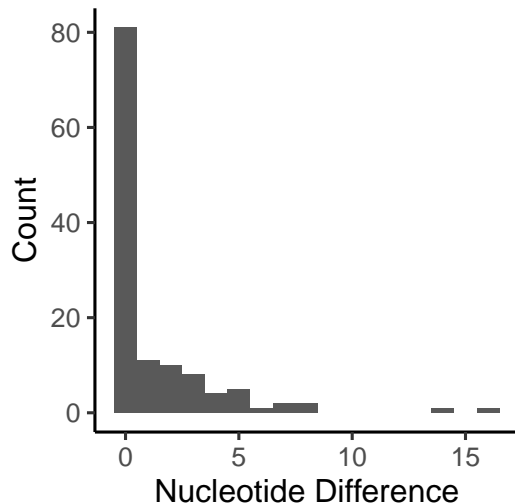
## IGLV2-23\*01

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



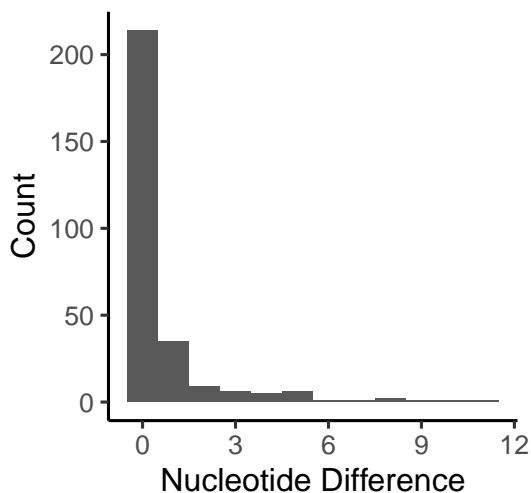
## IGLV2-8\*01

126 sequences assigned  
81 (64.3%) exact matches, in which:  
56 unique CDR3  
3 unique J



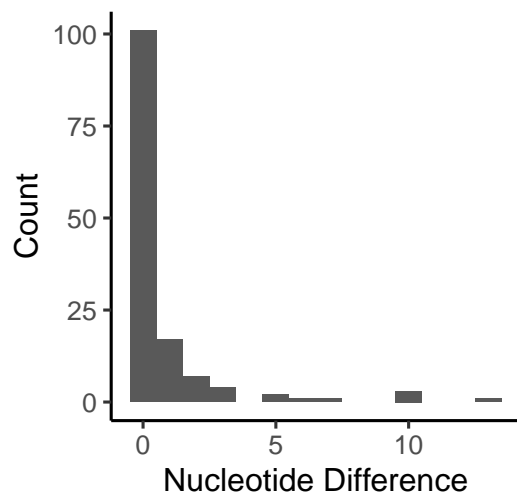
## IGLV2-14\*03EXT3

282 sequences assigned  
214 (75.9%) exact matches, in which:  
148 unique CDR3  
2 unique J



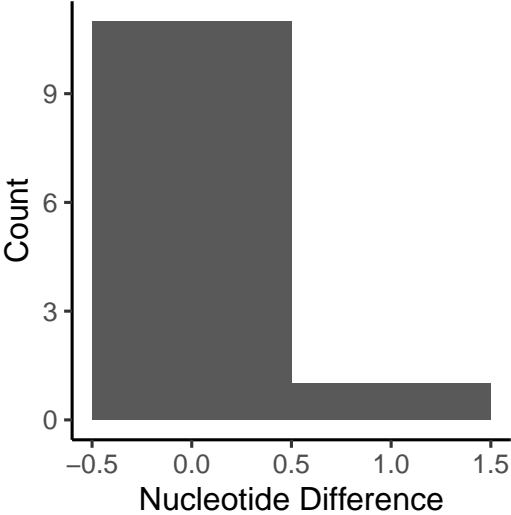
## IGLV2-23\*02EXT5

137 sequences assigned  
101 (73.7%) exact matches, in which:  
81 unique CDR3  
3 unique J



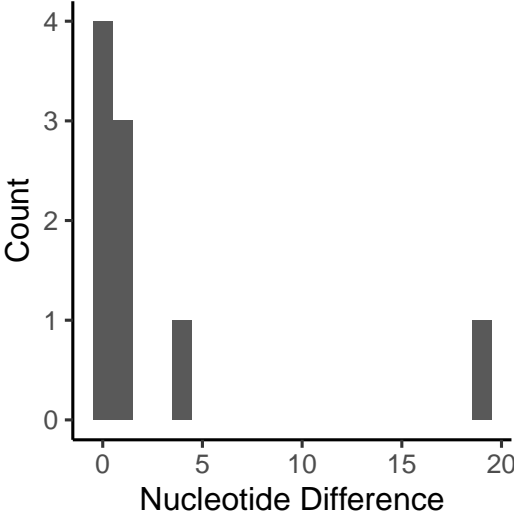
IGLV2–23\*03EXT5

12 sequences assigned  
11 (91.7%) exact matches, in which:  
9 unique CDR3  
2 unique J



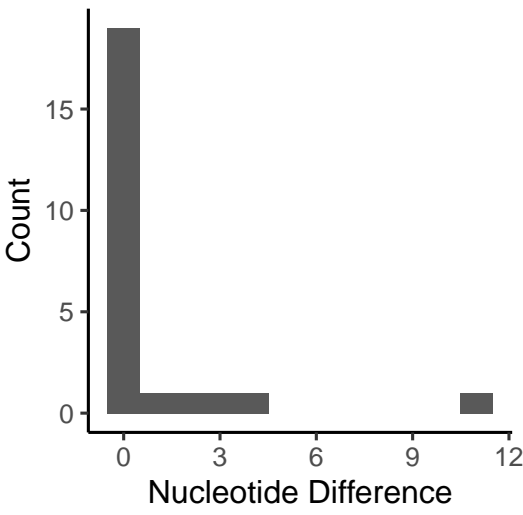
IGLV3–9\*01EXT5

9 sequences assigned  
4 (44.4%) exact matches, in which:  
4 unique CDR3  
2 unique J



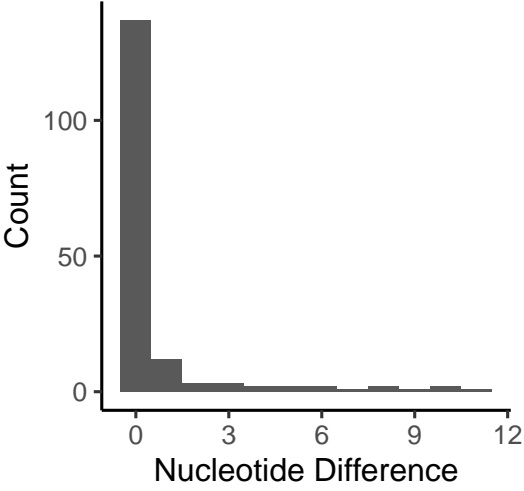
IGLV3–16\*01

24 sequences assigned  
19 (79.2%) exact matches, in which:  
14 unique CDR3  
1 unique J



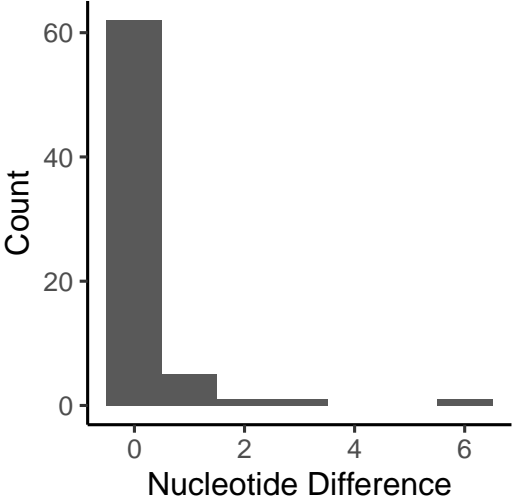
IGLV3–1\*01

168 sequences assigned  
137 (81.5%) exact matches, in which:  
97 unique CDR3  
3 unique J



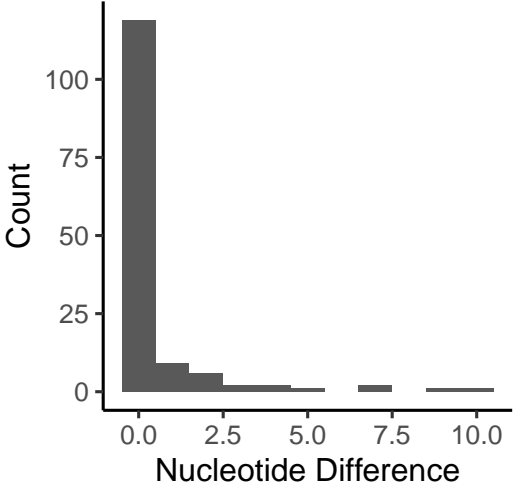
IGLV3–10\*01

70 sequences assigned  
62 (88.6%) exact matches, in which:  
42 unique CDR3  
2 unique J



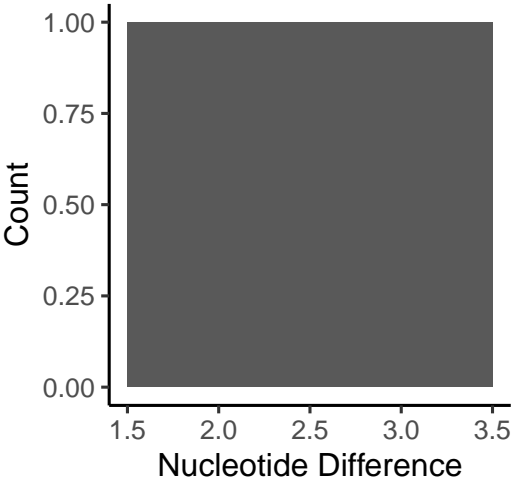
IGLV3–19\*01

143 sequences assigned  
119 (83.2%) exact matches, in which:  
66 unique CDR3  
2 unique J



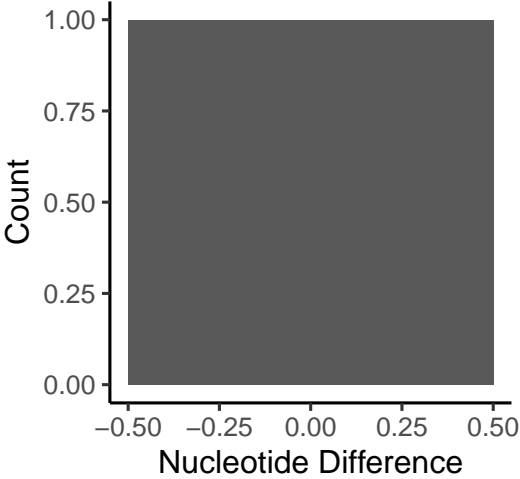
IGLV3–9\*02

2 sequences assigned  
No exact matches.



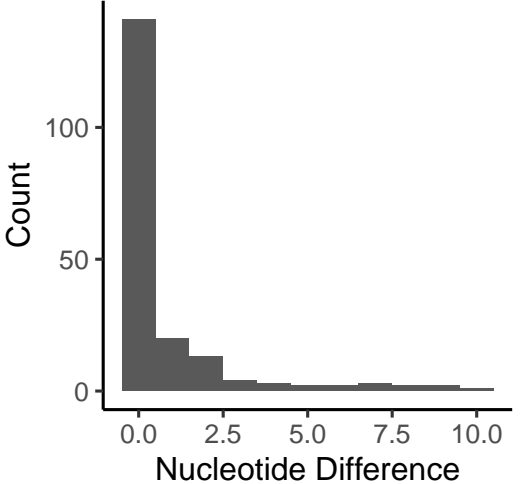
IGLV3–12\*02

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



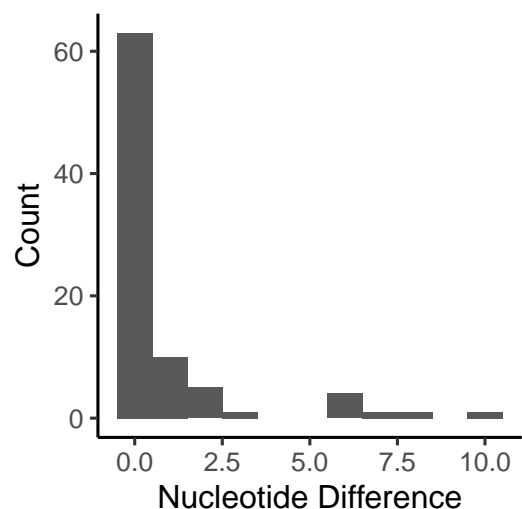
IGLV3–21\*02

193 sequences assigned  
141 (73.1%) exact matches, in which:  
84 unique CDR3  
3 unique J



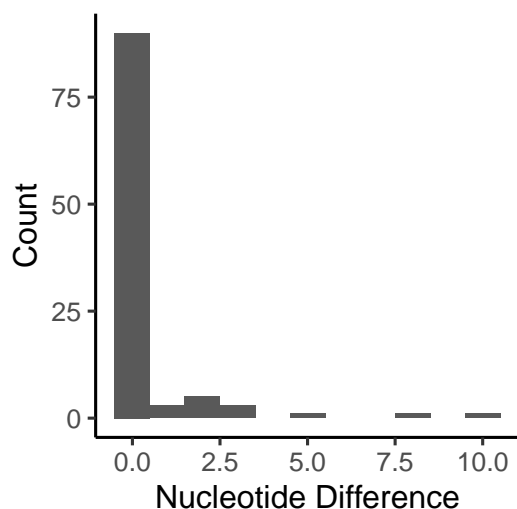
### IGLV3-21\*04

86 sequences assigned  
63 (73.3%) exact matches, in which:  
41 unique CDR3  
4 unique J



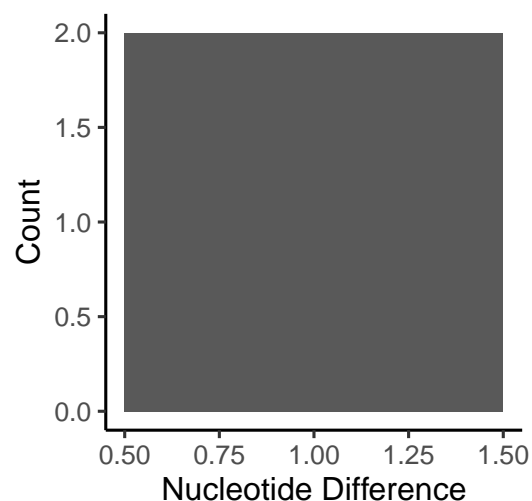
### IGLV3-25\*03

104 sequences assigned  
90 (86.5%) exact matches, in which:  
60 unique CDR3  
3 unique J



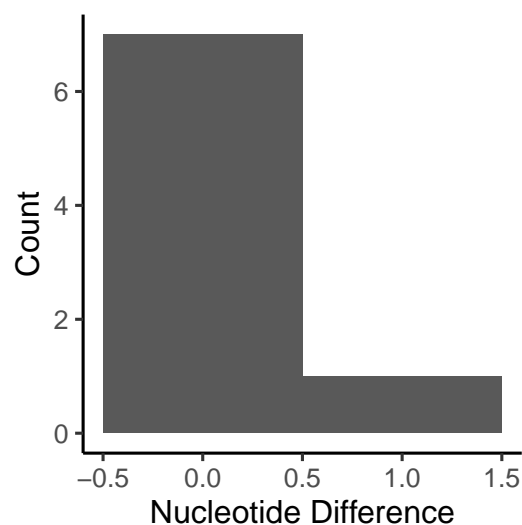
### IGLV4-60\*03EXT5

2 sequences assigned  
No exact matches.



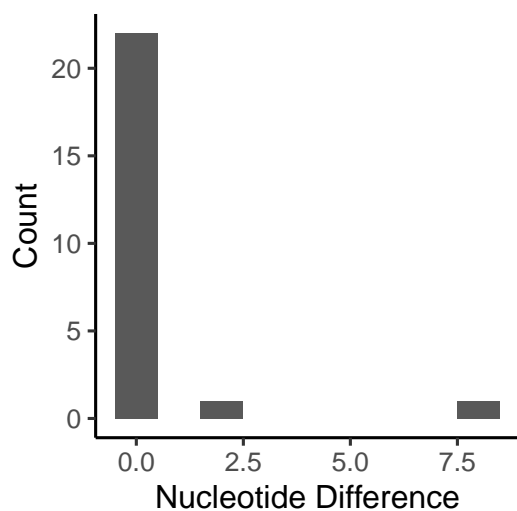
### IGLV3-22\*01

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



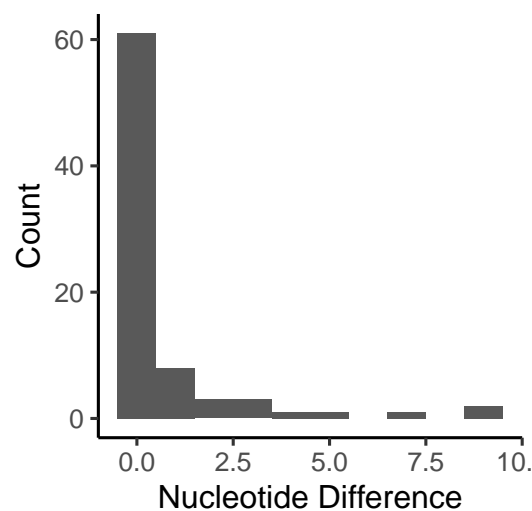
### IGLV3-27\*01

24 sequences assigned  
22 (91.7%) exact matches, in which:  
18 unique CDR3  
2 unique J



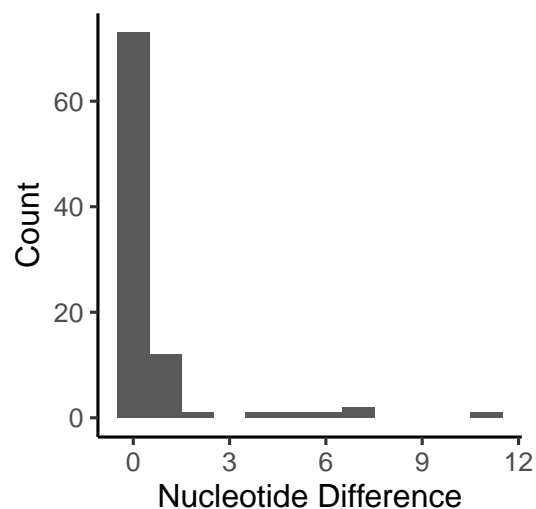
### IGLV4-69\*01

80 sequences assigned  
61 (76.2%) exact matches, in which:  
39 unique CDR3  
2 unique J



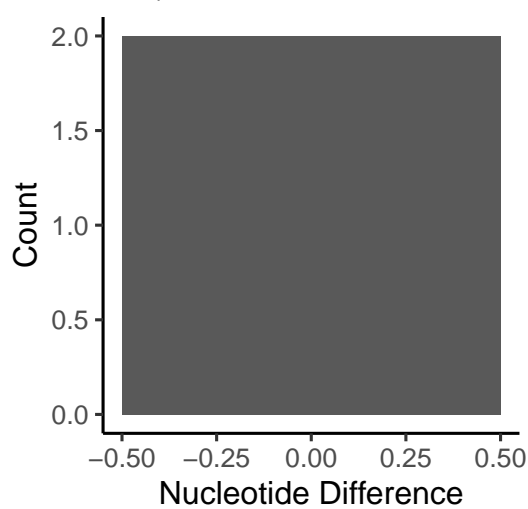
### IGLV3-25\*02

92 sequences assigned  
73 (79.3%) exact matches, in which:  
45 unique CDR3  
2 unique J



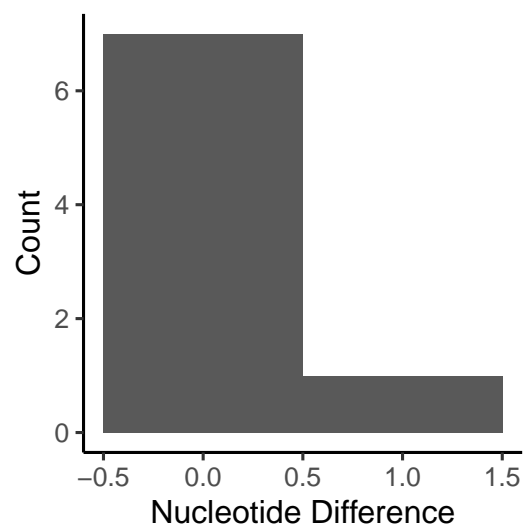
### IGLV4-3\*01

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



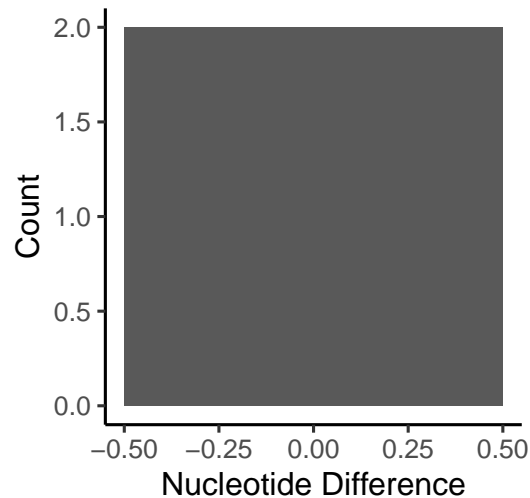
### IGLV5-37\*01

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



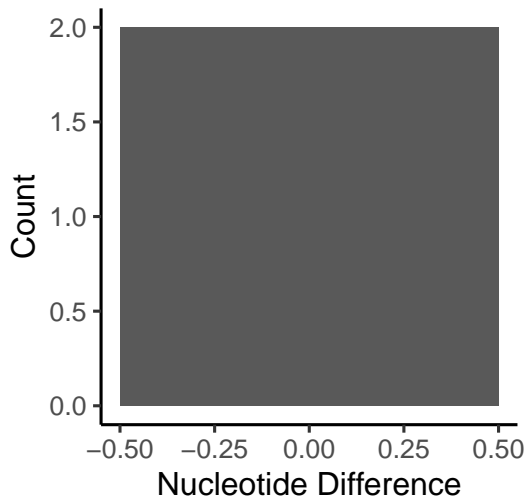
### IGLV5-39\*01

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



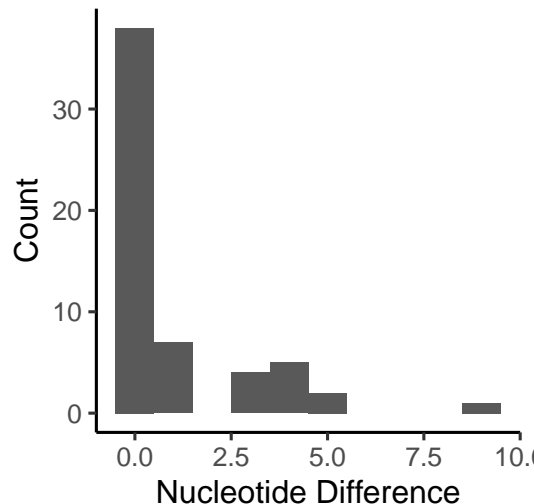
### IGLV5-48\*01

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



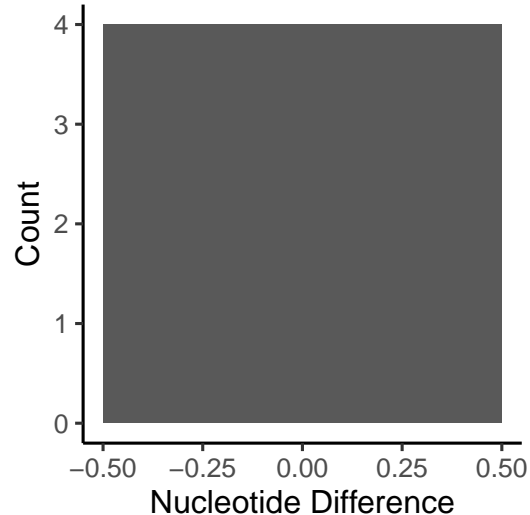
### IGLV7-43\*01

57 sequences assigned  
38 (66.7%) exact matches, in which:  
24 unique CDR3  
2 unique J



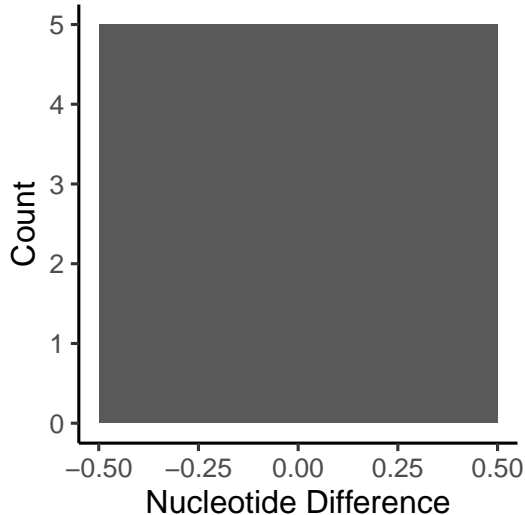
### IGLV5-45\*01

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



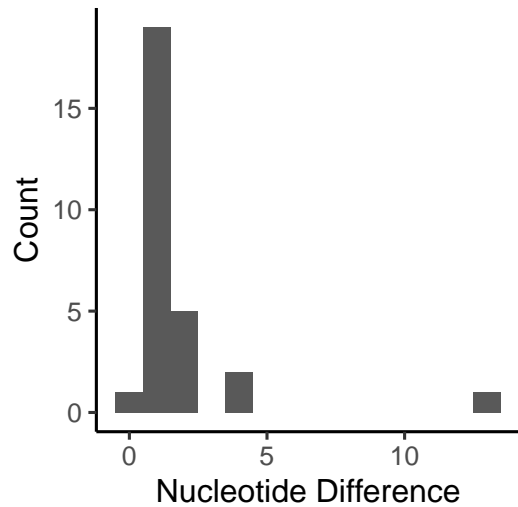
### IGLV5-52\*01

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



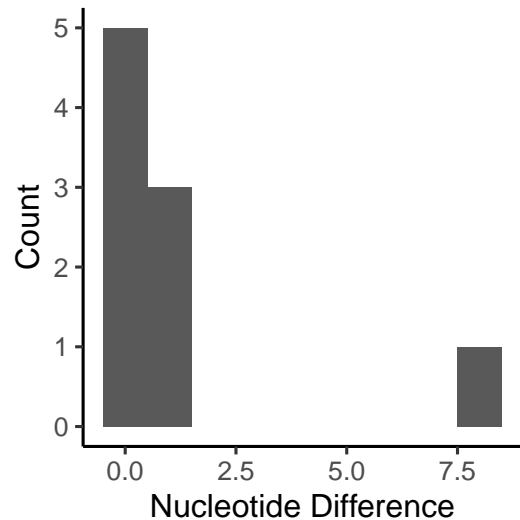
### IGLV7-46\*01

28 sequences assigned  
1 (3.6%) exact matches, in which:  
1 unique CDR3  
1 unique J



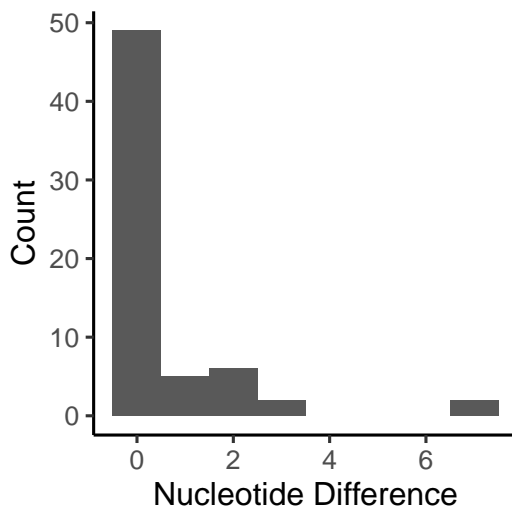
### IGLV5-45\*03

9 sequences assigned  
5 (55.6%) exact matches, in which:  
4 unique CDR3  
2 unique J



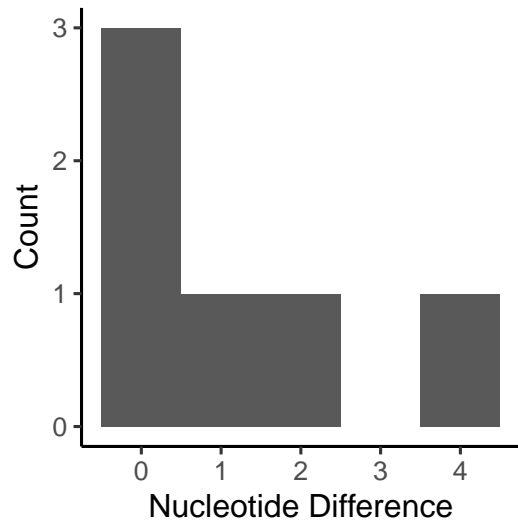
### IGLV6-57\*02

64 sequences assigned  
49 (76.6%) exact matches, in which:  
34 unique CDR3  
3 unique J



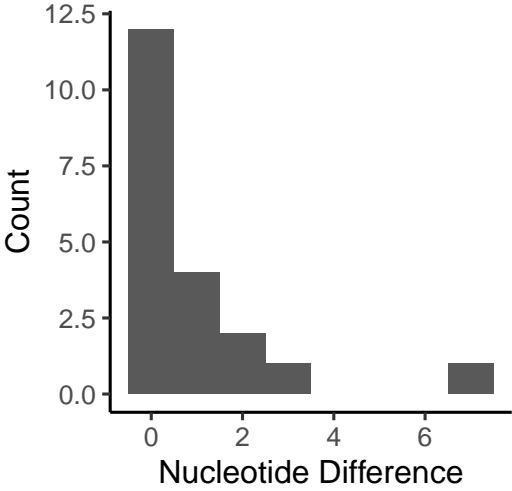
### IGLV7-46\*02

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



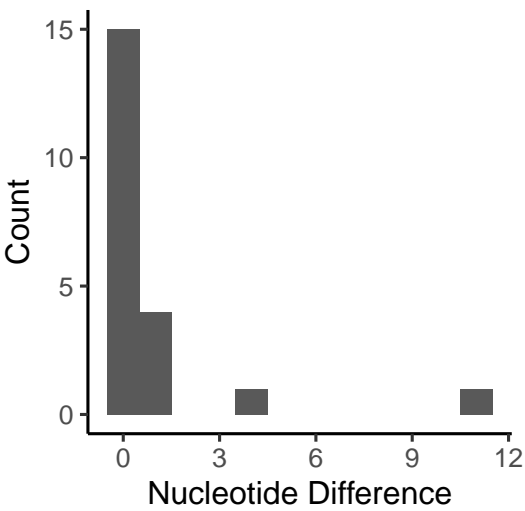
IGLV8-61\*01

20 sequences assigned  
12 (60%) exact matches, in which:  
7 unique CDR3  
1 unique J

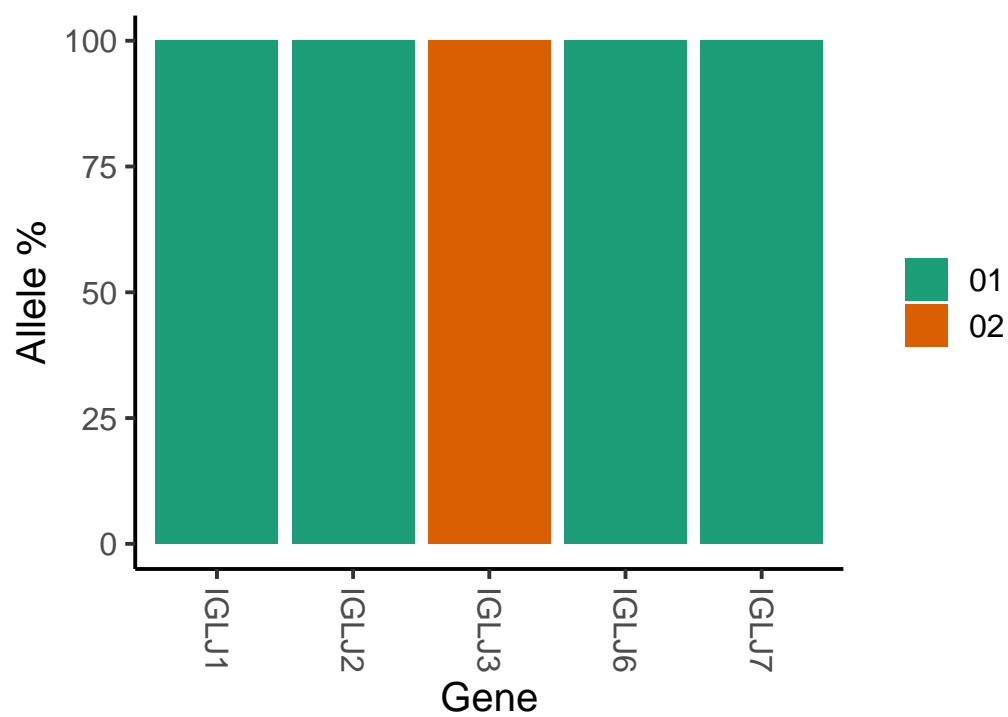


IGLV9-49\*01

21 sequences assigned  
15 (71.4%) exact matches, in which:  
12 unique CDR3  
2 unique J



Allele Usage



Warning – no inferred sequences found.