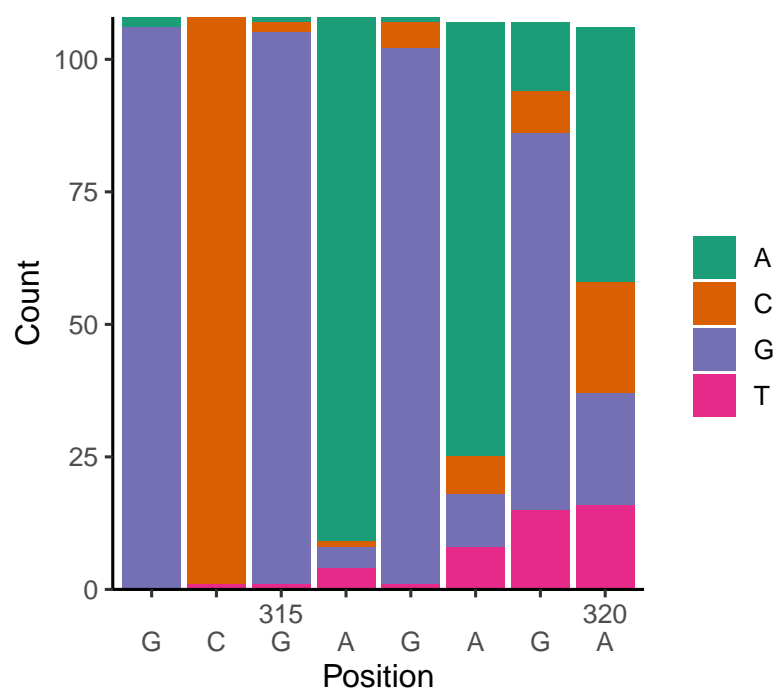
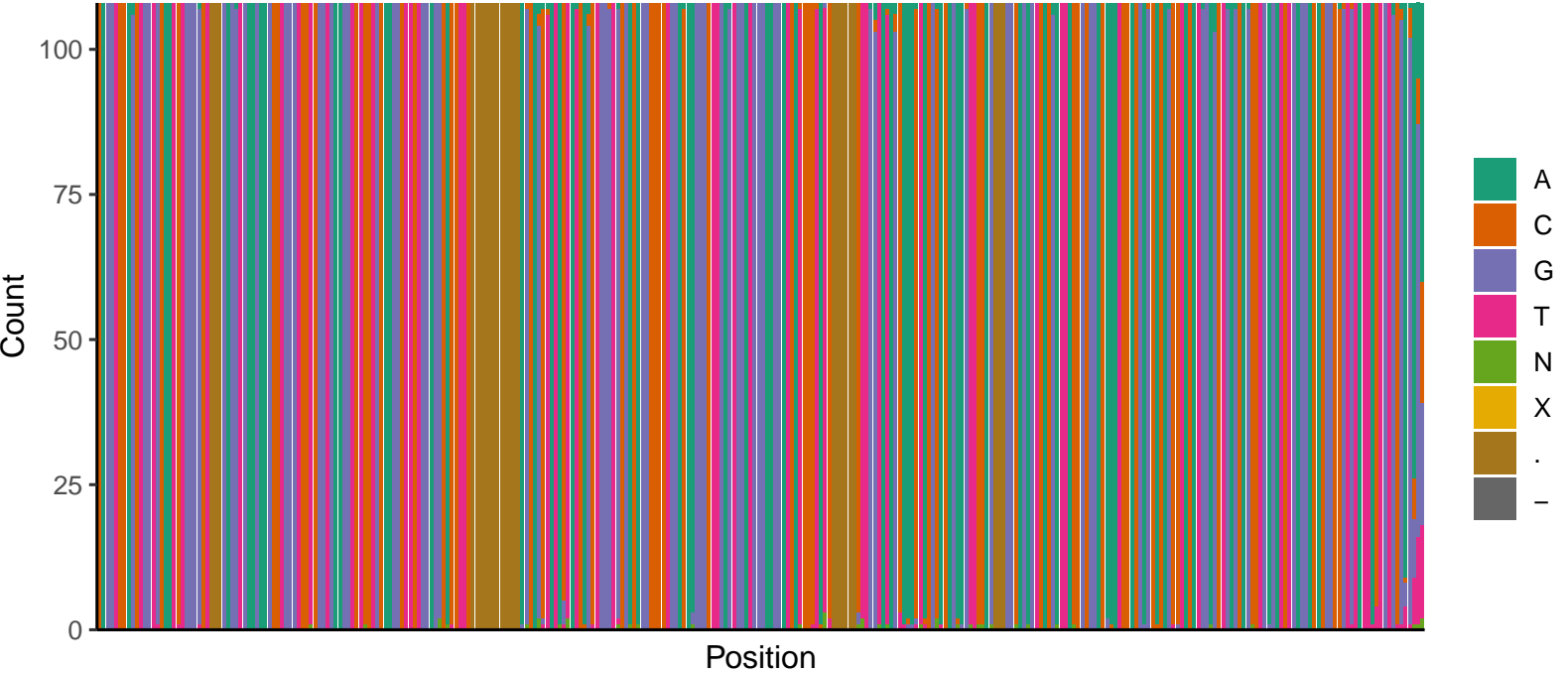


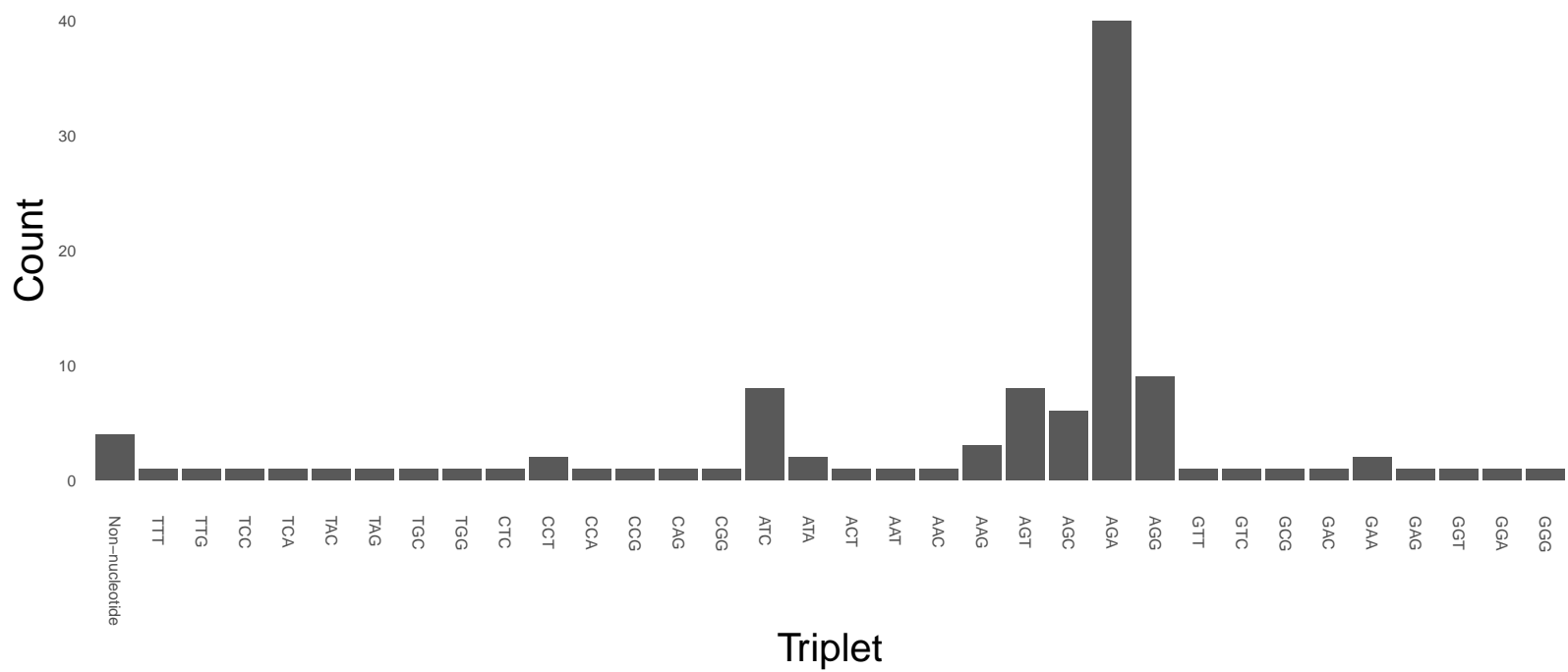
# Gene IGHV1-69\*08\_C191T



Gene IGHV1-69\*08\_C191T

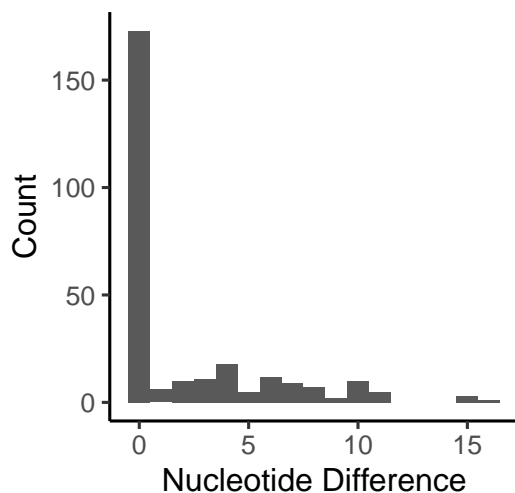


IGHV1-69\*08\_C191T- Final 3 nucleotides as a triplet



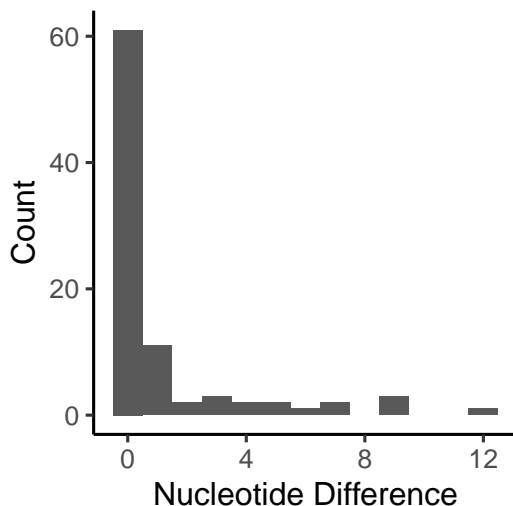
### IGHV1-2\*02

272 sequences assigned  
173 (63.6%) exact matches, in which:  
173 unique CDR3  
6 unique J



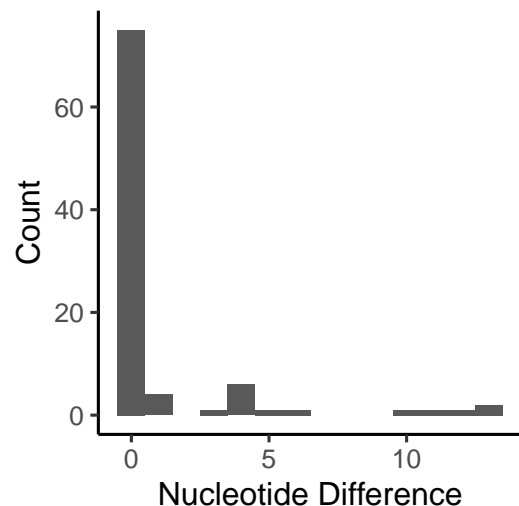
### IGHV1-8\*01

88 sequences assigned  
61 (69.3%) exact matches, in which:  
61 unique CDR3  
4 unique J



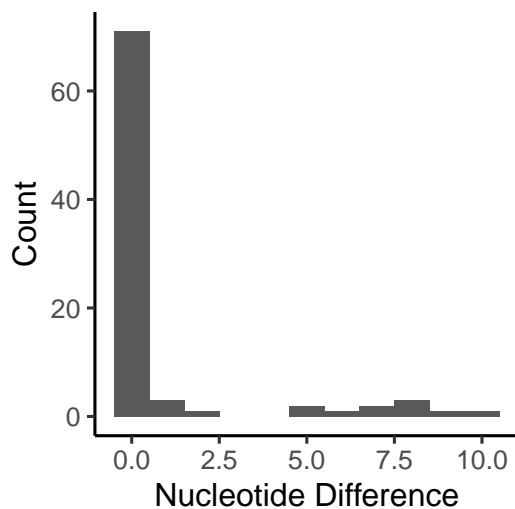
### IGHV1-24\*01

93 sequences assigned  
75 (80.6%) exact matches, in which:  
75 unique CDR3  
6 unique J



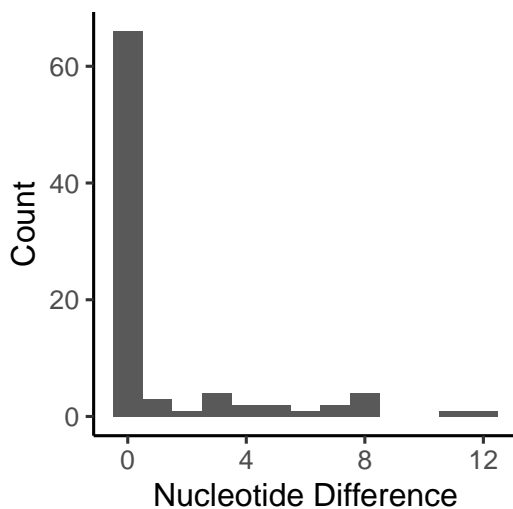
### IGHV1-2\*04

85 sequences assigned  
71 (83.5%) exact matches, in which:  
71 unique CDR3  
5 unique J



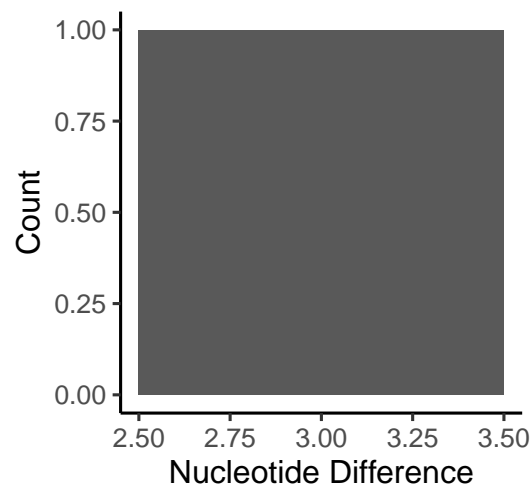
### IGHV1-8\*03

87 sequences assigned  
66 (75.9%) exact matches, in which:  
66 unique CDR3  
4 unique J



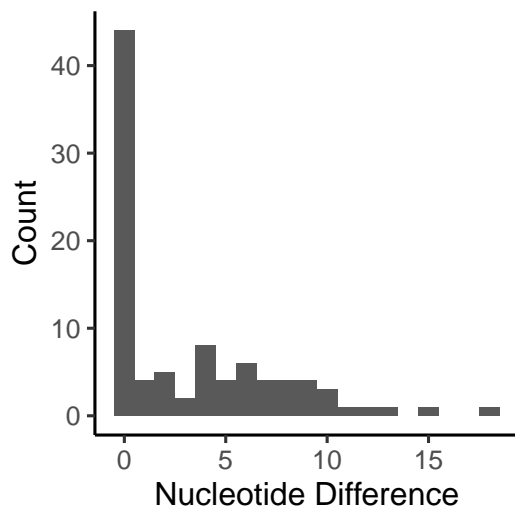
### IGHV1-45\*02

1 sequences assigned  
No exact matches.



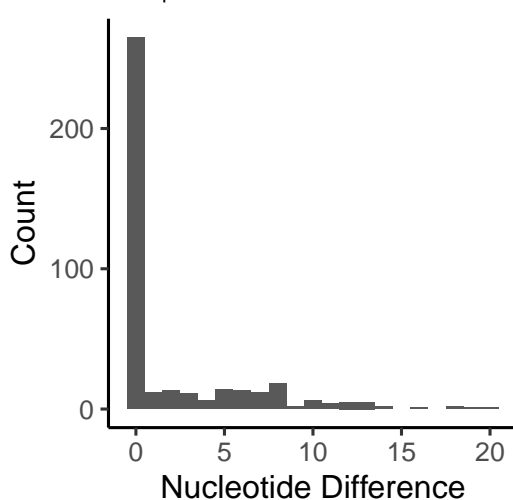
### IGHV1-3\*01

93 sequences assigned  
44 (47.3%) exact matches, in which:  
44 unique CDR3  
5 unique J



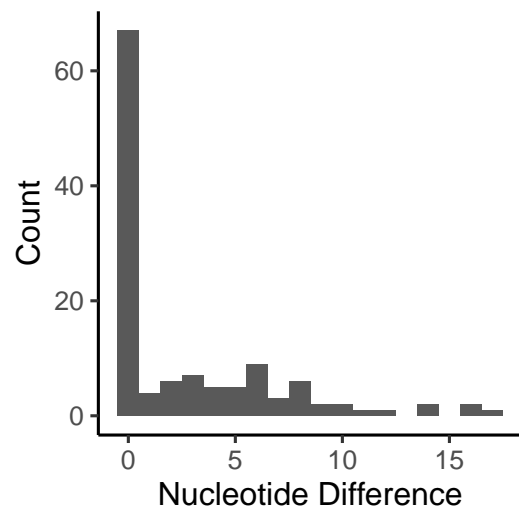
### IGHV1-18\*01

396 sequences assigned  
265 (66.9%) exact matches, in which:  
265 unique CDR3  
6 unique J



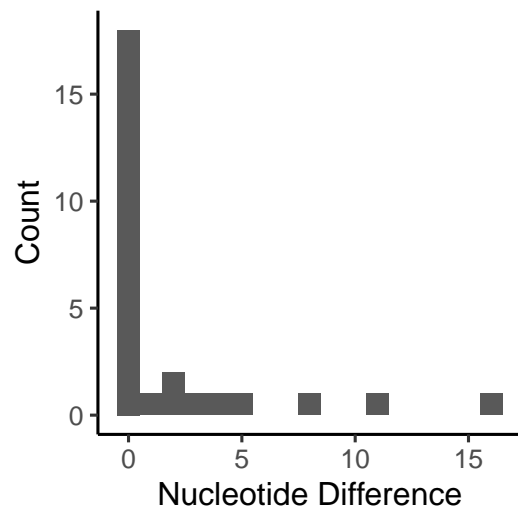
### IGHV1-46\*01

123 sequences assigned  
67 (54.5%) exact matches, in which:  
67 unique CDR3  
5 unique J



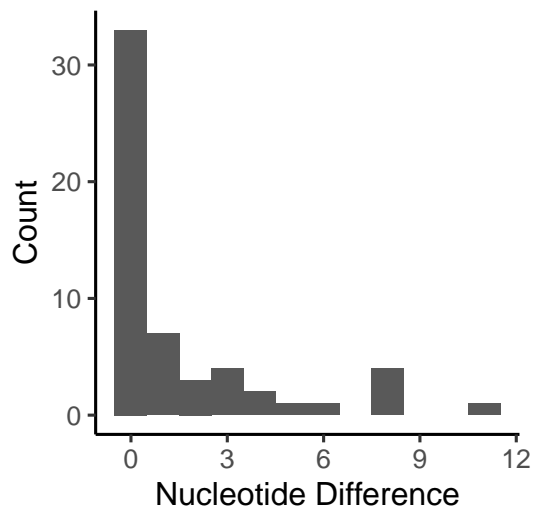
### IGHV1-58\*02

27 sequences assigned  
18 (66.7%) exact matches, in which:  
18 unique CDR3  
3 unique J



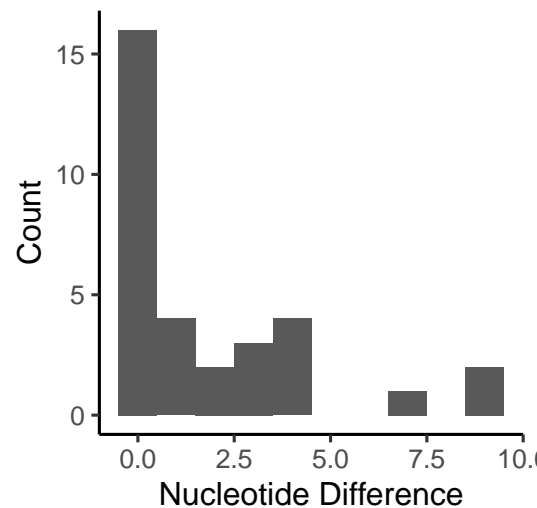
### IGHV2-5\*01

56 sequences assigned  
33 (58.9%) exact matches, in which:  
33 unique CDR3  
5 unique J



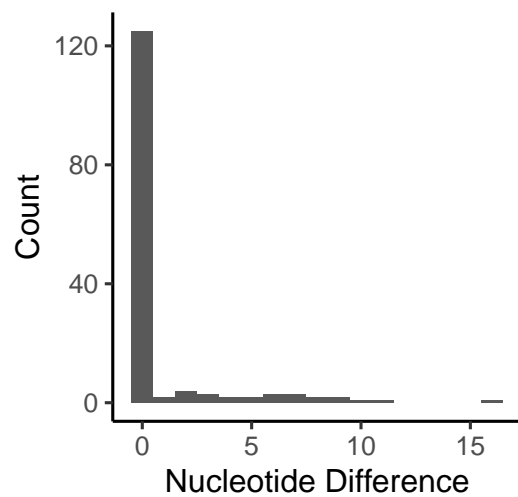
### IGHV2-70\*15

32 sequences assigned  
16 (50%) exact matches, in which:  
16 unique CDR3  
5 unique J



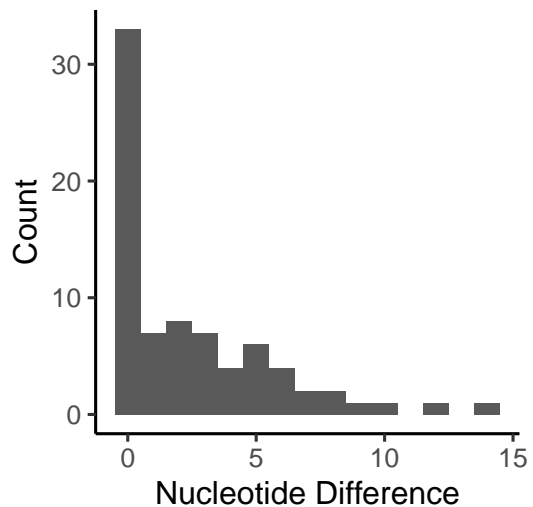
### IGHV1-69\*04

151 sequences assigned  
125 (82.8%) exact matches, in which:  
125 unique CDR3  
6 unique J



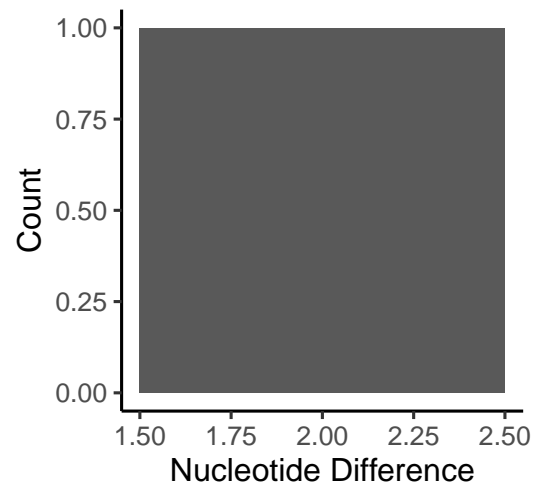
### IGHV2-5\*02

77 sequences assigned  
33 (42.9%) exact matches, in which:  
33 unique CDR3  
6 unique J



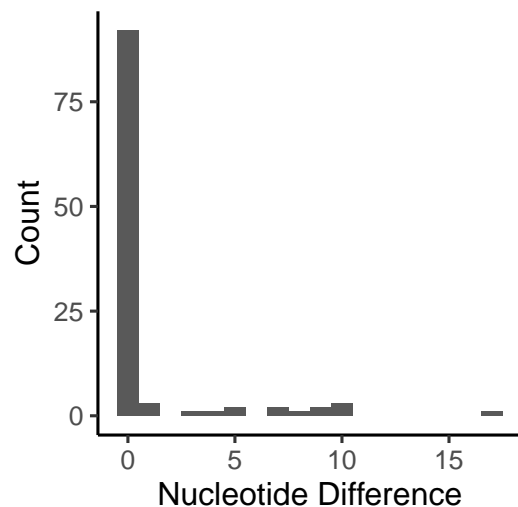
### IGHV2-70D\*14

1 sequences assigned  
No exact matches.



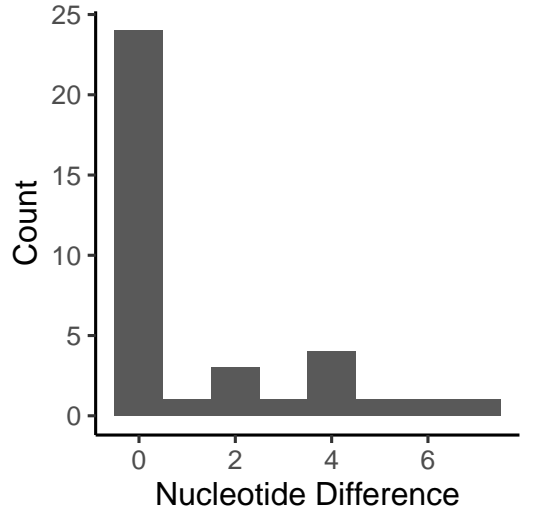
### IGHV1-69\*08\_C191T

108 sequences assigned  
92 (85.2%) exact matches, in which:  
92 unique CDR3  
5 unique J



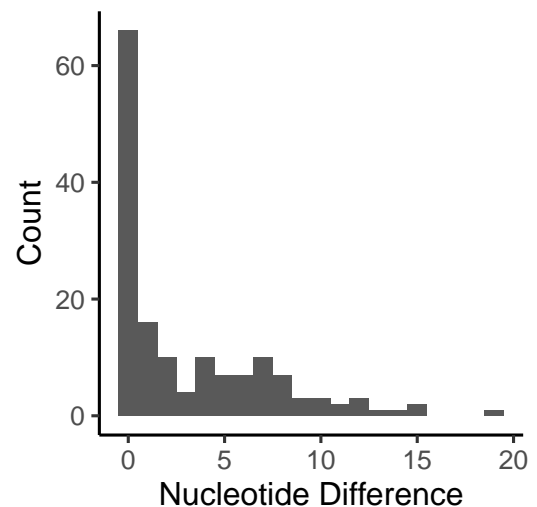
### IGHV2-26\*01

36 sequences assigned  
24 (66.7%) exact matches, in which:  
24 unique CDR3  
5 unique J



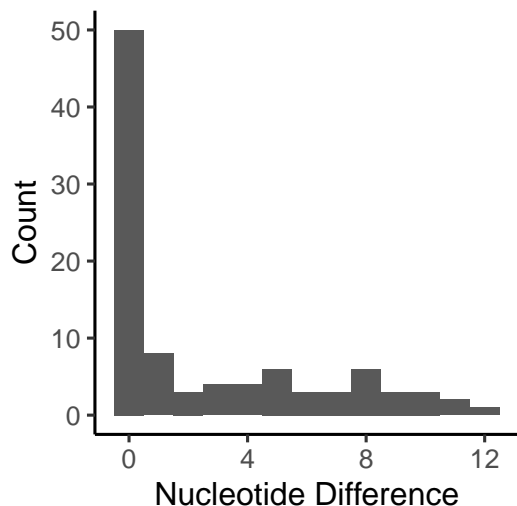
### IGHV3-7\*01

155 sequences assigned  
66 (42.6%) exact matches, in which:  
66 unique CDR3  
6 unique J



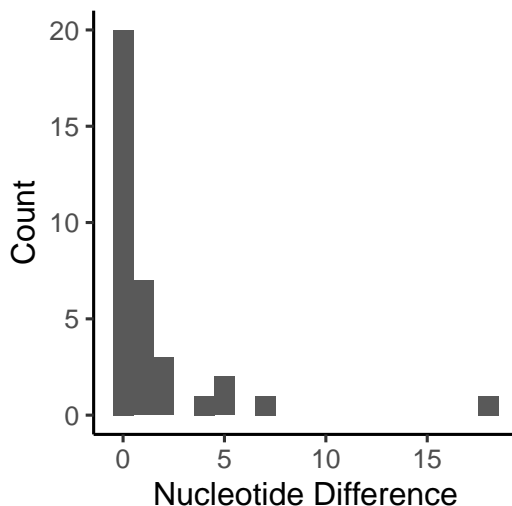
### IGHV3-9\*01

96 sequences assigned  
50 (52.1%) exact matches, in which:  
50 unique CDR3  
5 unique J



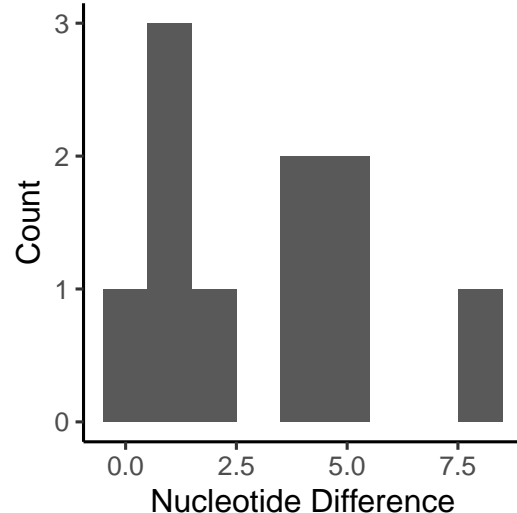
### IGHV3-11\*04

35 sequences assigned  
20 (57.1%) exact matches, in which:  
20 unique CDR3  
5 unique J



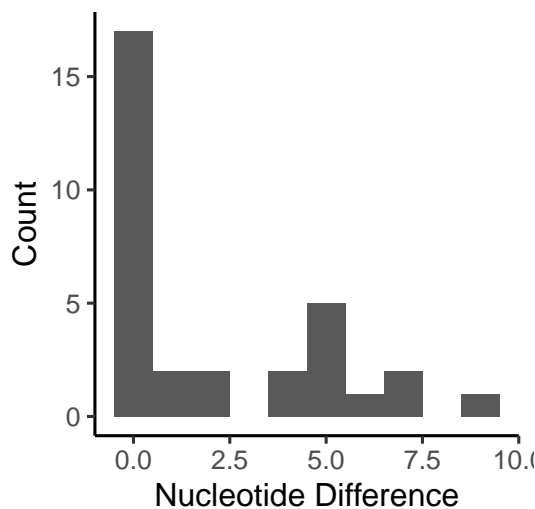
### IGHV3-20\*01

10 sequences assigned  
1 (10%) exact matches, in which:  
1 unique CDR3  
1 unique J



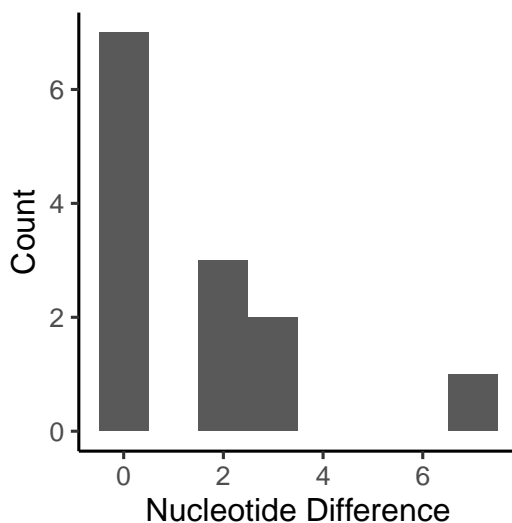
### IGHV3-9\*03

32 sequences assigned  
17 (53.1%) exact matches, in which:  
17 unique CDR3  
4 unique J



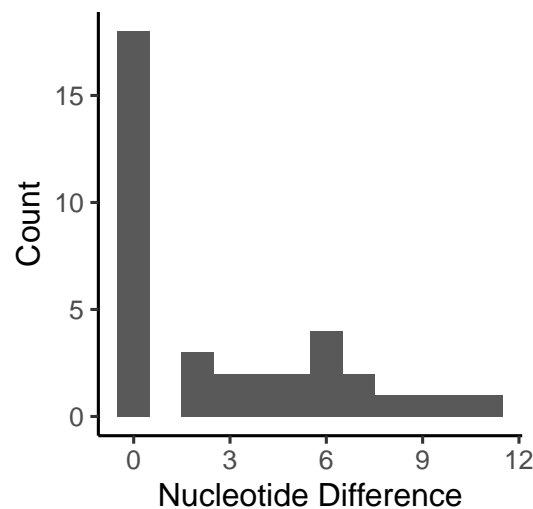
### IGHV3-13\*01

13 sequences assigned  
7 (53.8%) exact matches, in which:  
7 unique CDR3  
2 unique J



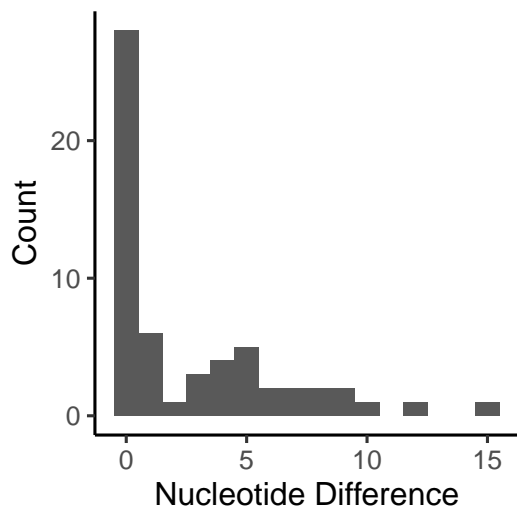
### IGHV3-20\*04

37 sequences assigned  
18 (48.6%) exact matches, in which:  
18 unique CDR3  
3 unique J



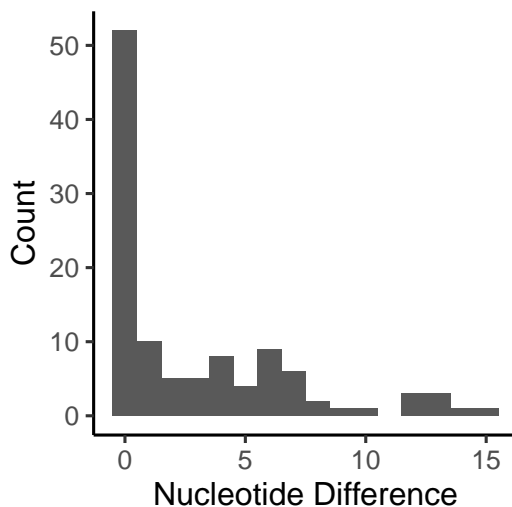
### IGHV3-11\*01

58 sequences assigned  
28 (48.3%) exact matches, in which:  
28 unique CDR3  
5 unique J



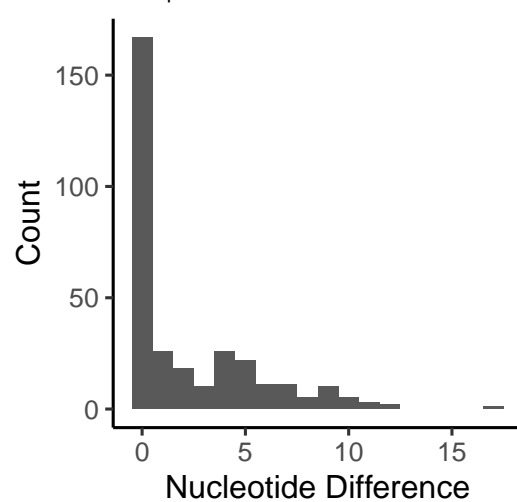
### IGHV3-15\*01

111 sequences assigned  
52 (46.8%) exact matches, in which:  
52 unique CDR3  
4 unique J



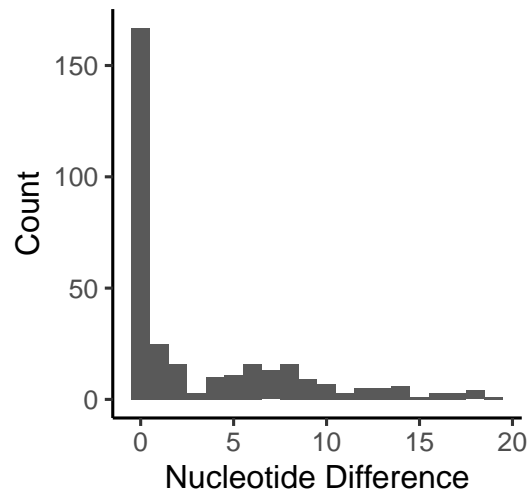
### IGHV3-21\*01

319 sequences assigned  
167 (52.4%) exact matches, in which:  
167 unique CDR3  
6 unique J



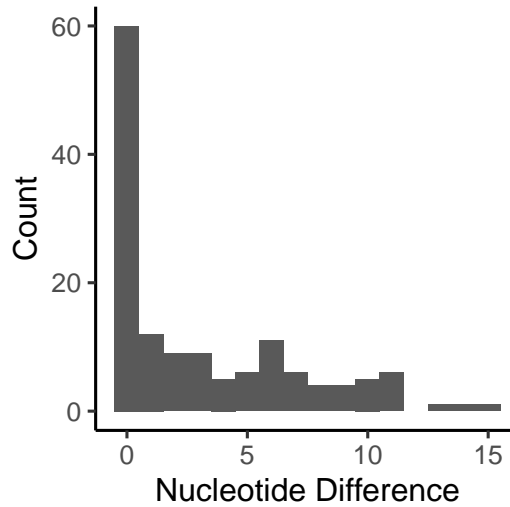
### IGHV3–23\*01

325 sequences assigned  
167 (51.4%) exact matches, in which:  
167 unique CDR3  
6 unique J



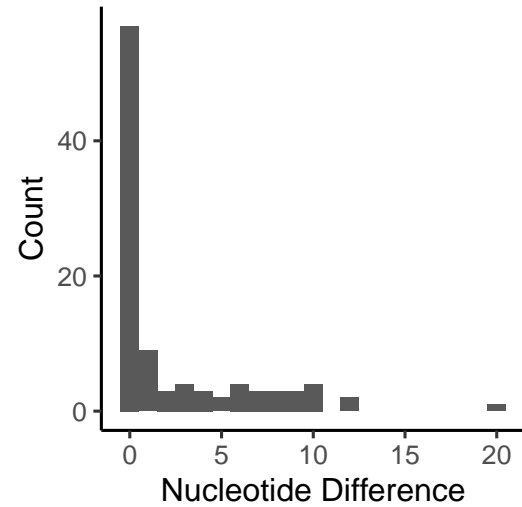
### IGHV3–30\*18

141 sequences assigned  
60 (42.6%) exact matches, in which:  
60 unique CDR3  
5 unique J



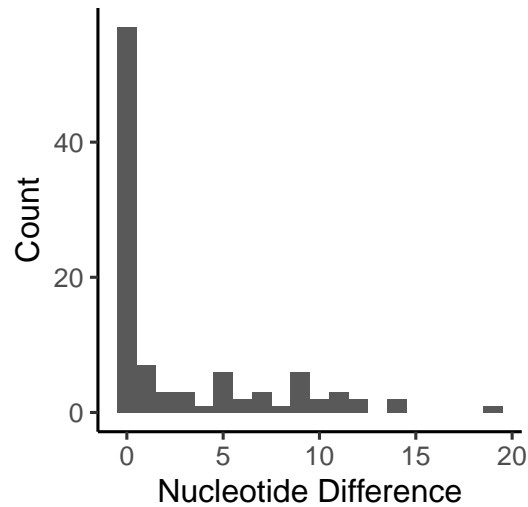
### IGHV3–48\*03

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



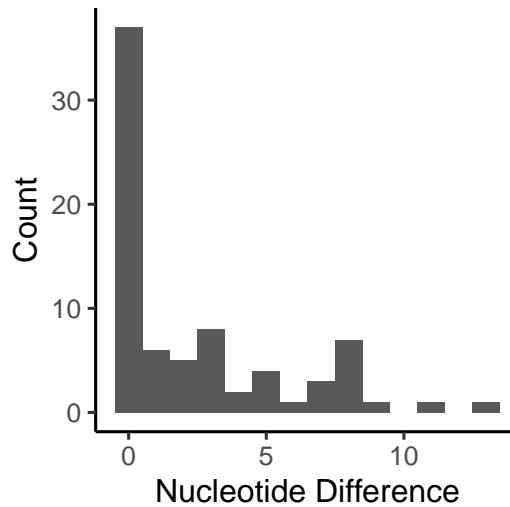
### IGHV3–30–3\*01

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



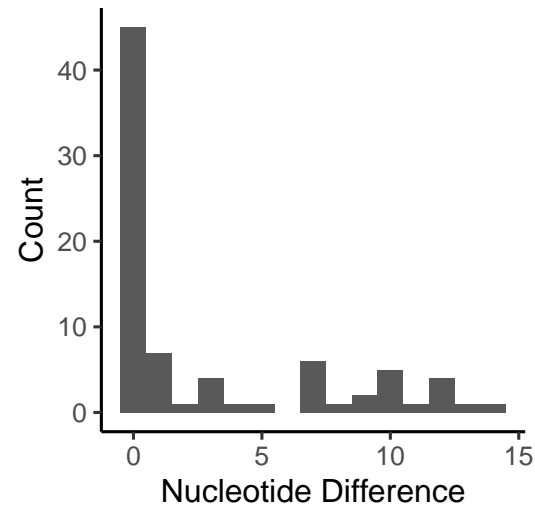
### IGHV3–33\*01

76 sequences assigned  
37 (48.7%) exact matches, in which:  
37 unique CDR3  
5 unique J



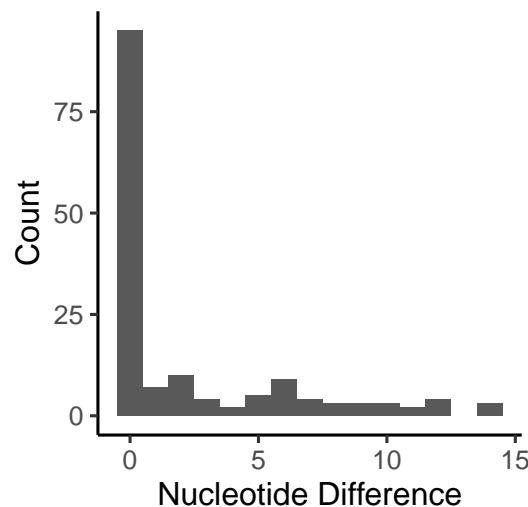
### IGHV3–48\*04

80 sequences assigned  
45 (56.2%) exact matches, in which:  
45 unique CDR3  
5 unique J



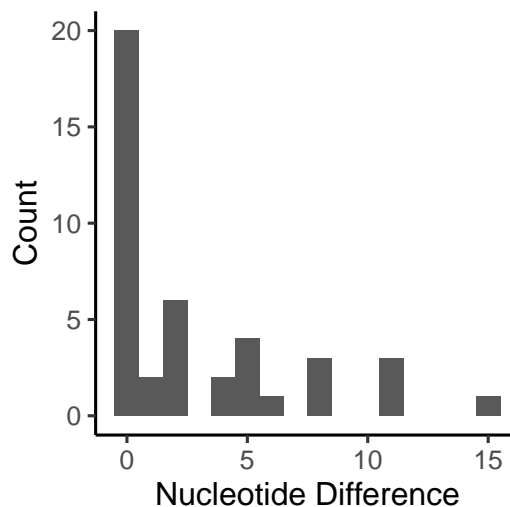
### IGHV3–30\*04

157 sequences assigned  
95 (60.5%) exact matches, in which:  
95 unique CDR3  
6 unique J



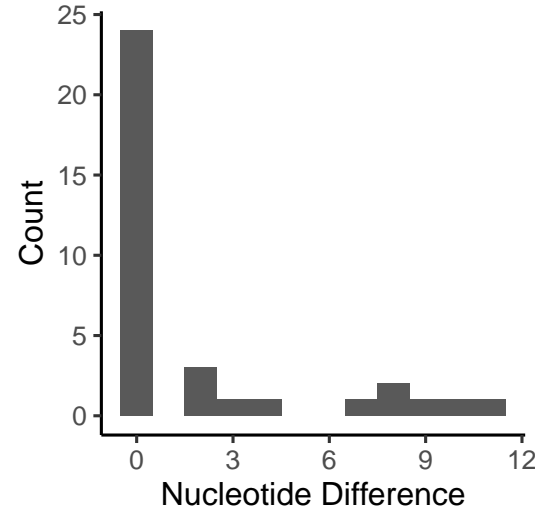
### IGHV3–43\*02

42 sequences assigned  
20 (47.6%) exact matches, in which:  
20 unique CDR3  
5 unique J



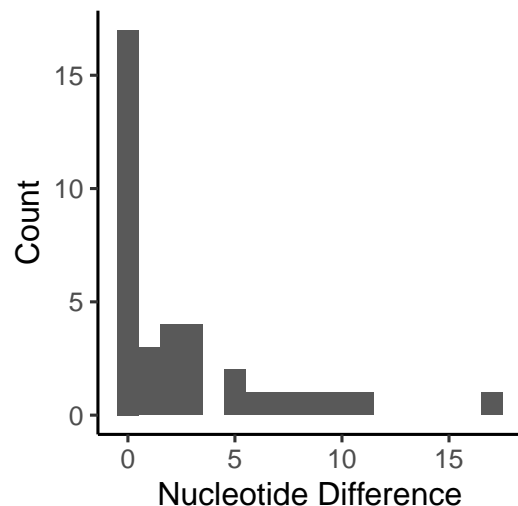
### IGHV3–49\*03

35 sequences assigned  
24 (68.6%) exact matches, in which:  
24 unique CDR3  
4 unique J



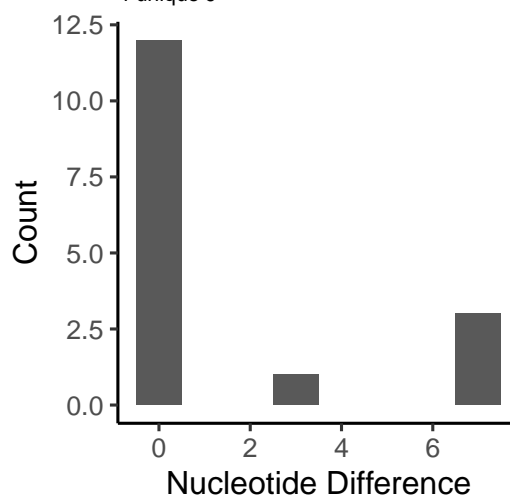
### IGHV3-49\*04

37 sequences assigned  
17 (45.9%) exact matches, in which:  
17 unique CDR3  
5 unique J



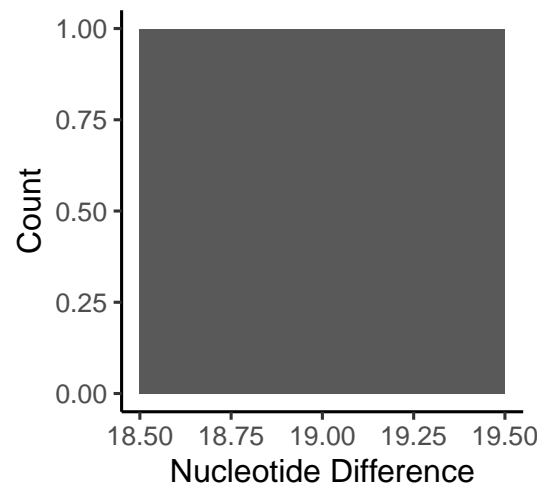
### IGHV3-64\*01

16 sequences assigned  
12 (75%) exact matches, in which:  
12 unique CDR3  
4 unique J



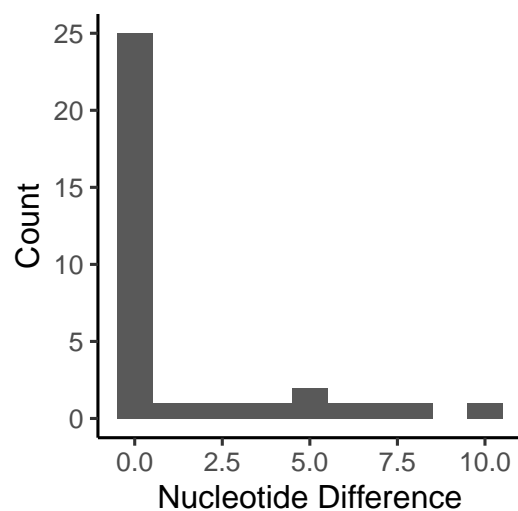
### IGHV3-69-1\*02

1 sequences assigned  
No exact matches.



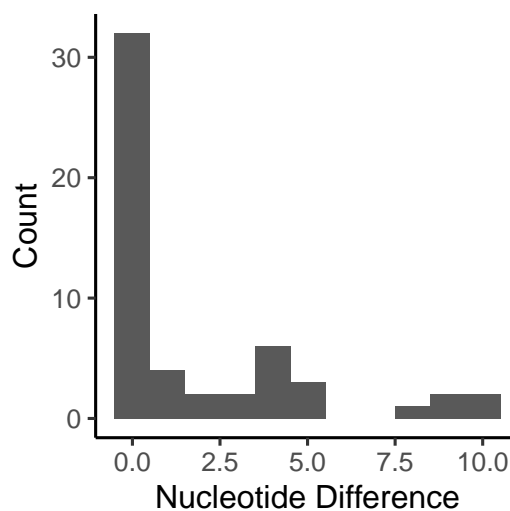
### IGHV3-53\*02

35 sequences assigned  
25 (71.4%) exact matches, in which:  
25 unique CDR3  
4 unique J



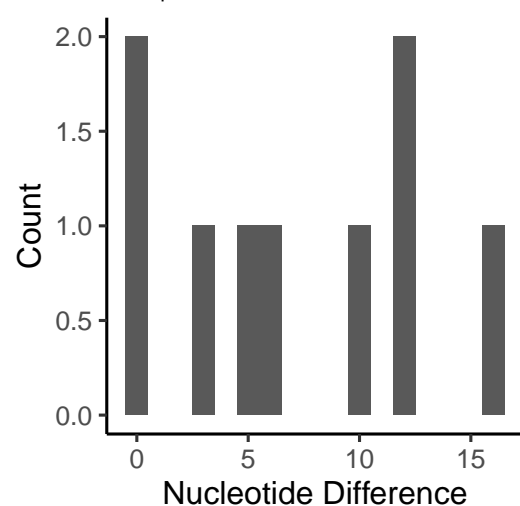
### IGHV3-66\*01

55 sequences assigned  
32 (58.2%) exact matches, in which:  
32 unique CDR3  
5 unique J



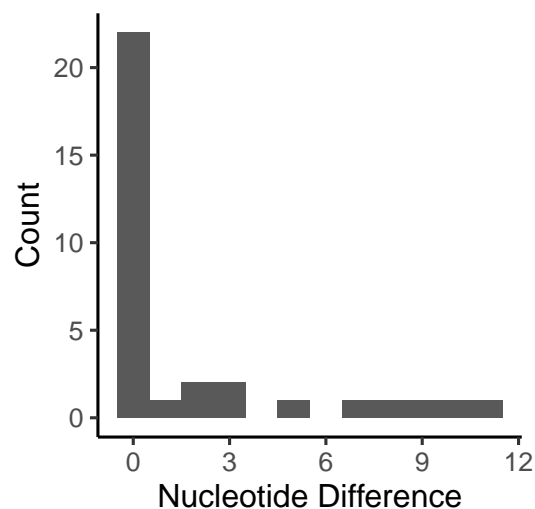
### IGHV3-72\*01

9 sequences assigned  
2 (22.2%) exact matches, in which:  
2 unique CDR3  
2 unique J



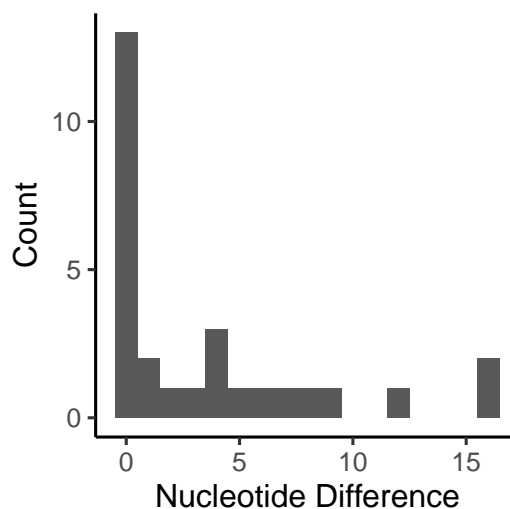
### IGHV3-53\*04

33 sequences assigned  
22 (66.7%) exact matches, in which:  
22 unique CDR3  
4 unique J



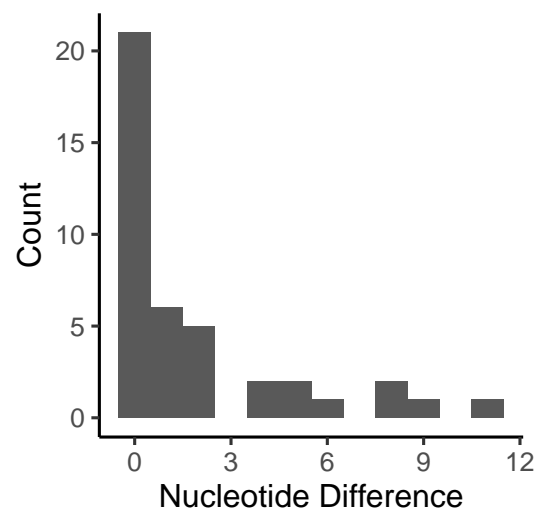
### IGHV3-66\*02

28 sequences assigned  
13 (46.4%) exact matches, in which:  
13 unique CDR3  
3 unique J



### IGHV3-73\*01

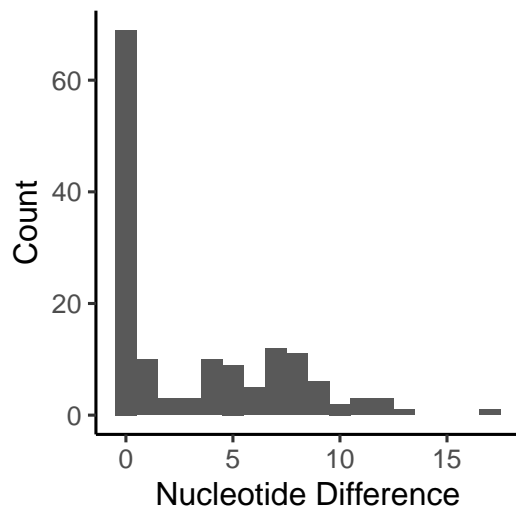
41 sequences assigned  
21 (51.2%) exact matches, in which:  
21 unique CDR3  
4 unique J





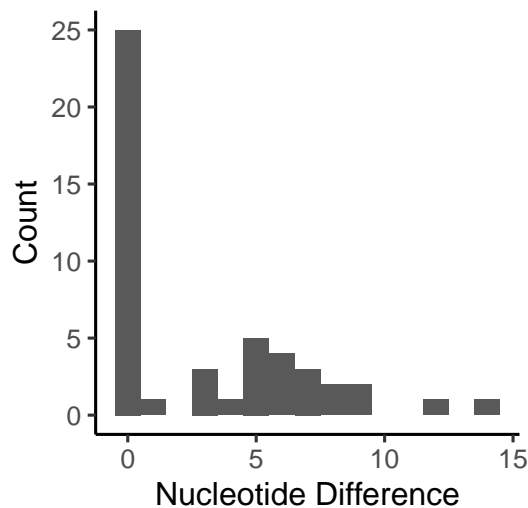
### IGHV3-74\*01

149 sequences assigned  
69 (46.3%) exact matches, in which:  
69 unique CDR3  
5 unique J



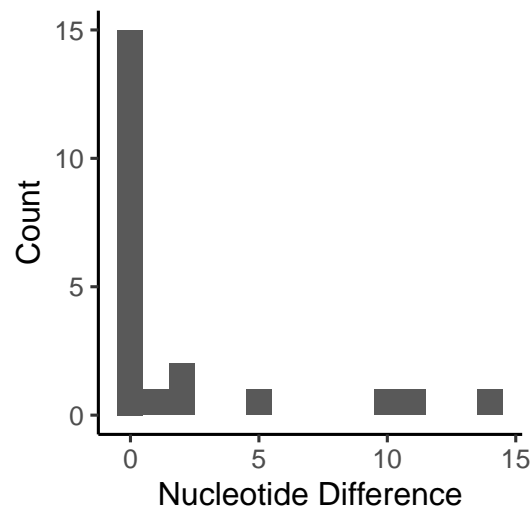
### IGHV4-4\*02

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



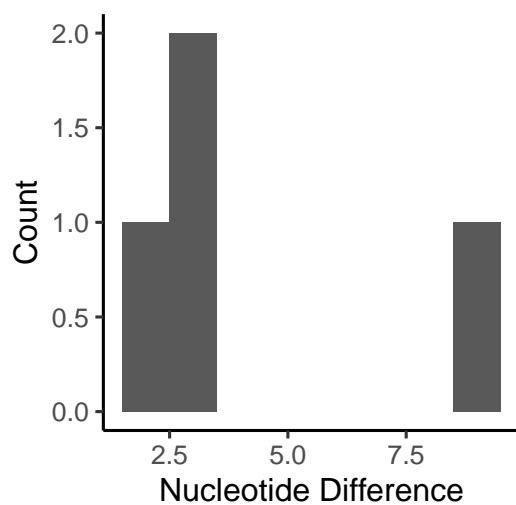
### IGHV4-30-2\*01

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



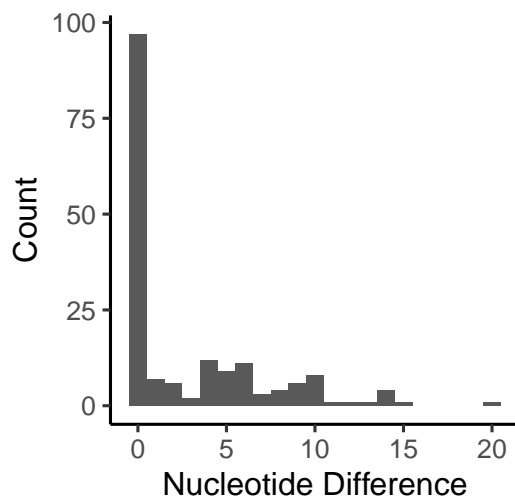
### IGHV3-43D\*04

4 sequences assigned  
No exact matches.



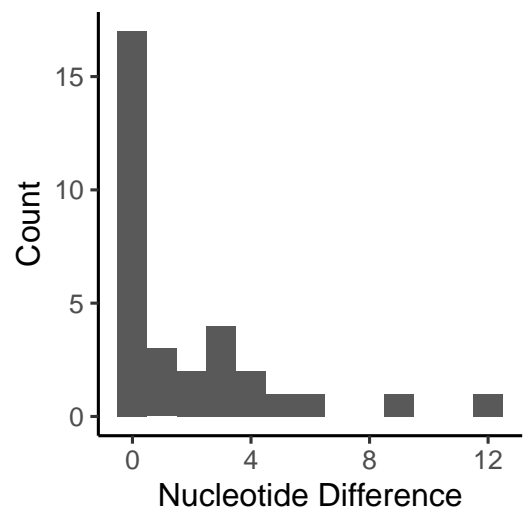
### IGHV4-4\*07

175 sequences assigned  
97 (55.4%) exact matches, in which:  
97 unique CDR3  
5 unique J



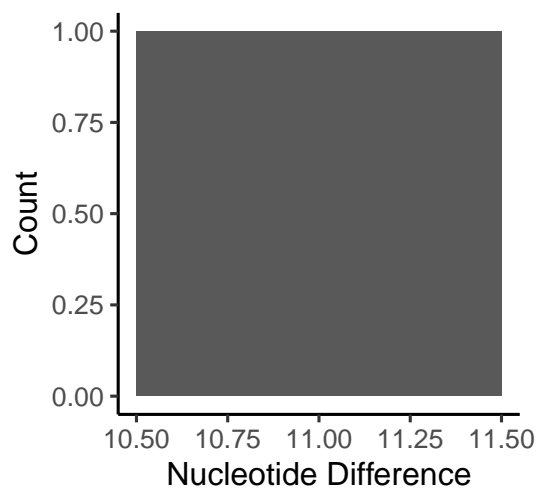
### IGHV4-30-4\*01

32 sequences assigned  
17 (53.1%) exact matches, in which:  
17 unique CDR3  
5 unique J



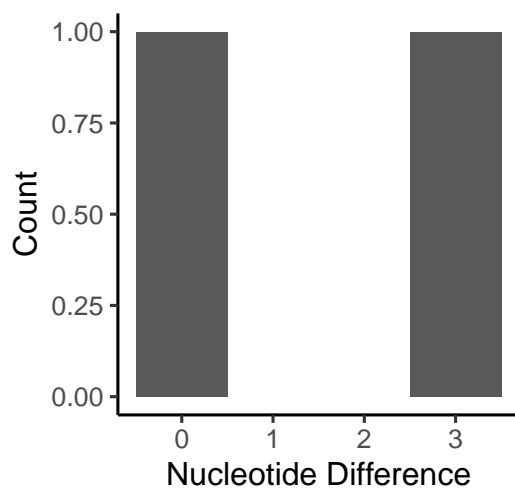
### IGHV3-NL1\*01

1 sequences assigned  
No exact matches.



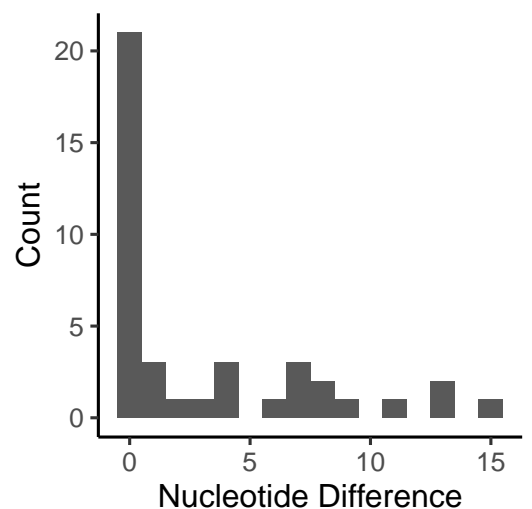
### IGHV4-28\*01

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



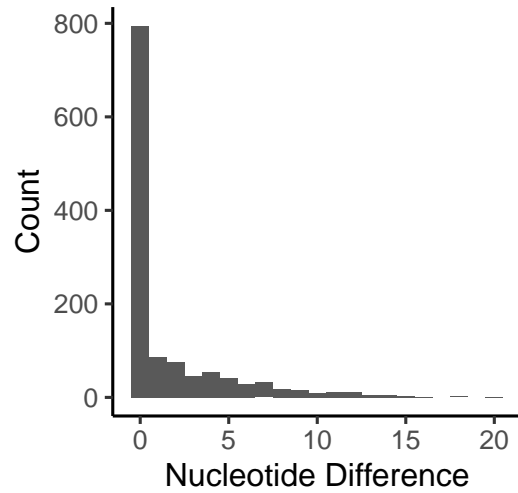
### IGHV4-31\*03

40 sequences assigned  
21 (52.5%) exact matches, in which:  
21 unique CDR3  
6 unique J



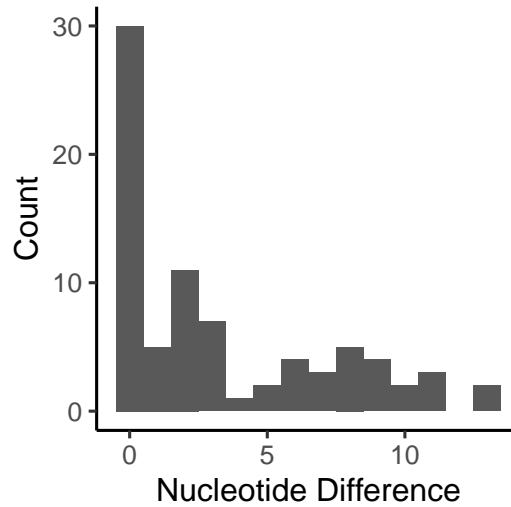
### IGHV4-34\*01

1248 sequences assigned  
795 (63.7%) exact matches, in which:  
794 unique CDR3  
6 unique J



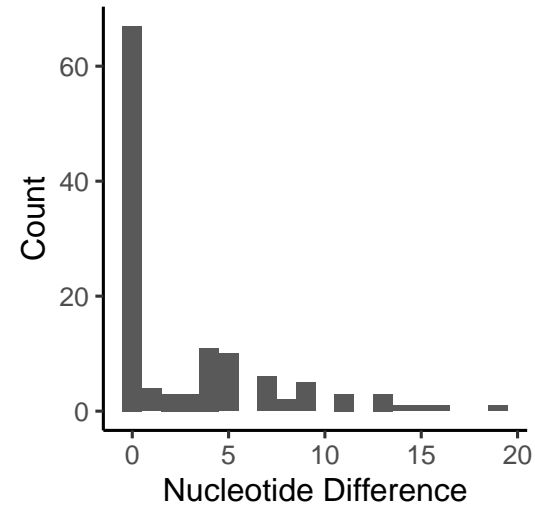
### IGHV4-59\*08

80 sequences assigned  
30 (37.5%) exact matches, in which:  
30 unique CDR3  
5 unique J



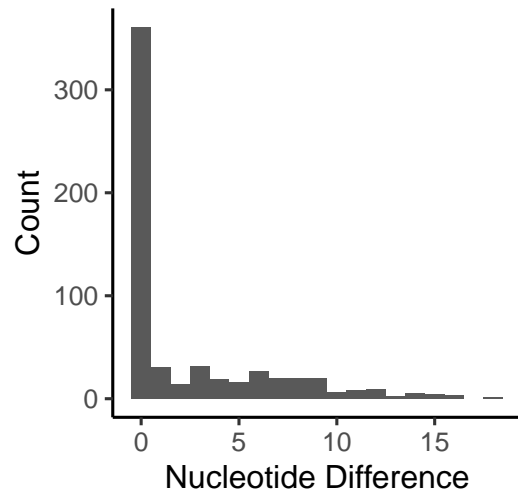
### IGHV5-51\*03

121 sequences assigned  
67 (55.4%) exact matches, in which:  
67 unique CDR3  
5 unique J



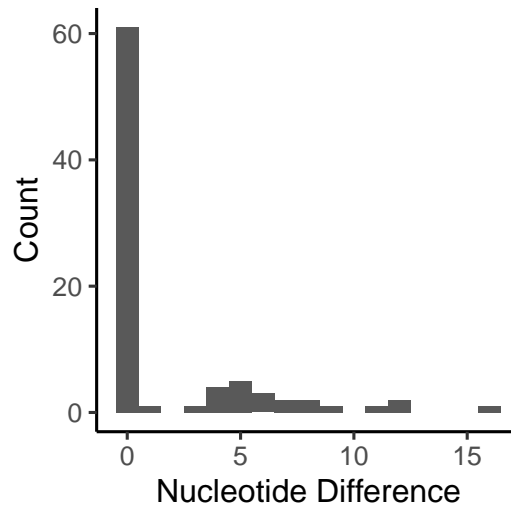
### IGHV4-39\*01

600 sequences assigned  
361 (60.2%) exact matches, in which:  
361 unique CDR3  
6 unique J



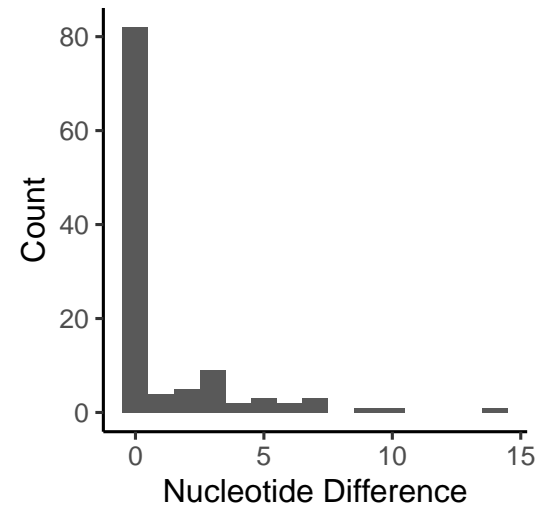
### IGHV4-61\*02

84 sequences assigned  
61 (72.6%) exact matches, in which:  
61 unique CDR3  
6 unique J



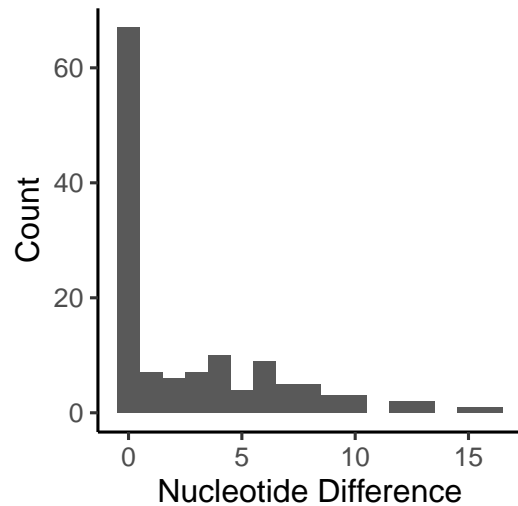
### IGHV6-1\*01

113 sequences assigned  
82 (72.6%) exact matches, in which:  
82 unique CDR3  
6 unique J



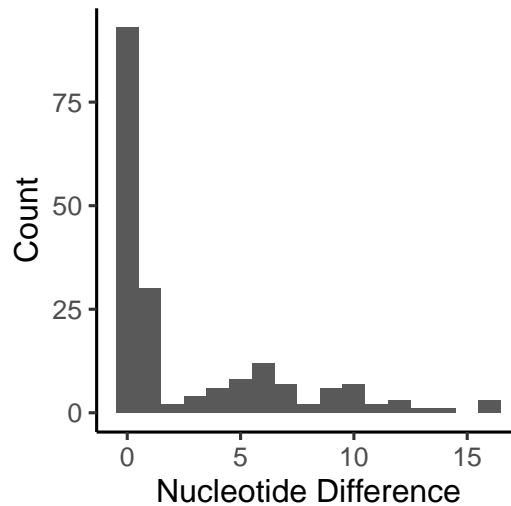
### IGHV4-59\*01

134 sequences assigned  
67 (50%) exact matches, in which:  
67 unique CDR3  
5 unique J



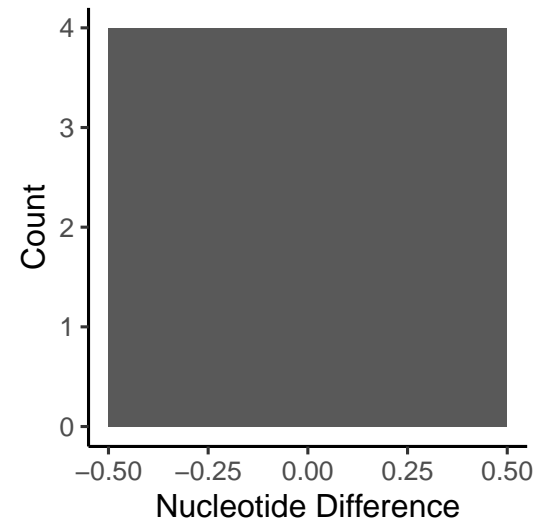
### IGHV5-51\*01

188 sequences assigned  
93 (49.5%) exact matches, in which:  
93 unique CDR3  
5 unique J



### IGHV7-4-1\*01

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



IGHV1-69\*08\_C191T

