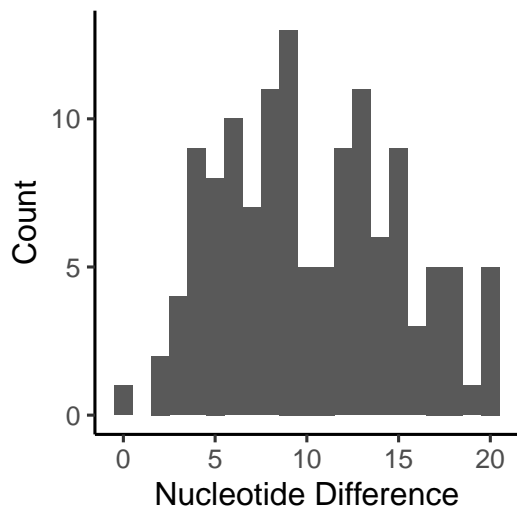


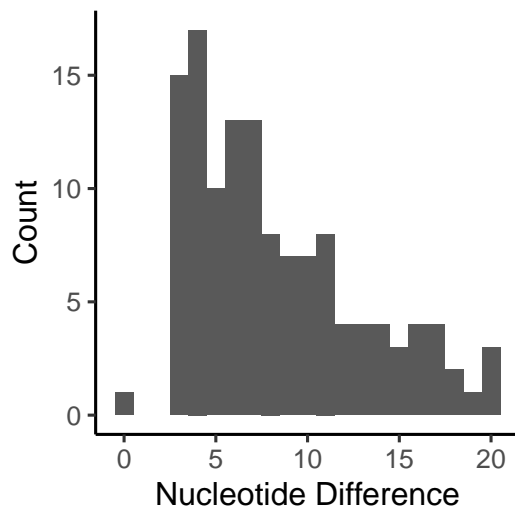
### IGHV1-2\*02

146 sequences assigned  
1 (0.7%) exact matches, in which:  
1 unique CDR3  
1 unique J



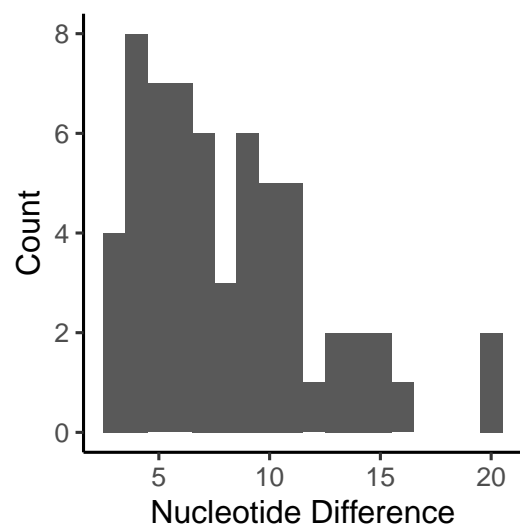
### IGHV1-18\*01

142 sequences assigned  
1 (0.7%) exact matches, in which:  
1 unique CDR3  
1 unique J



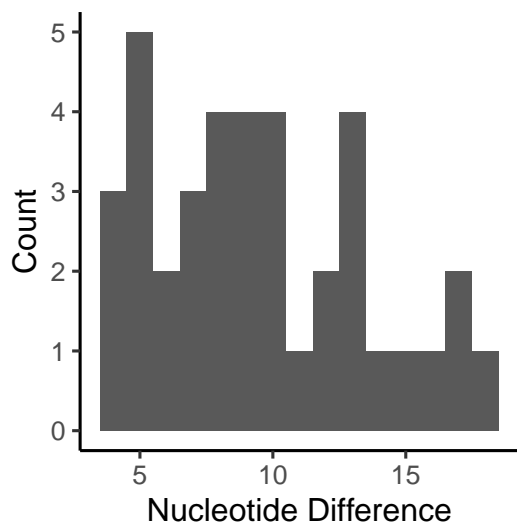
### IGHV1-46\*01

71 sequences assigned  
No exact matches.



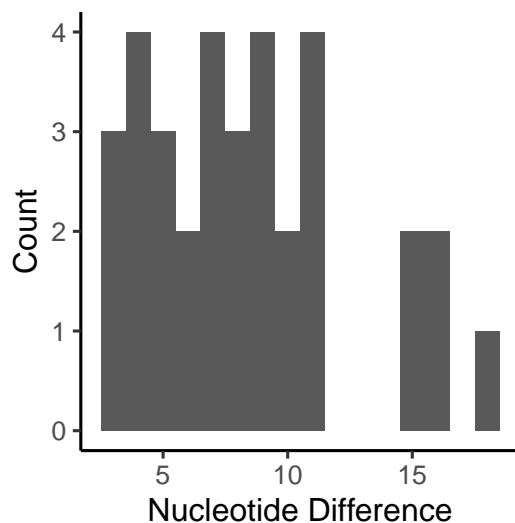
### IGHV1-3\*01\_05

45 sequences assigned  
No exact matches.



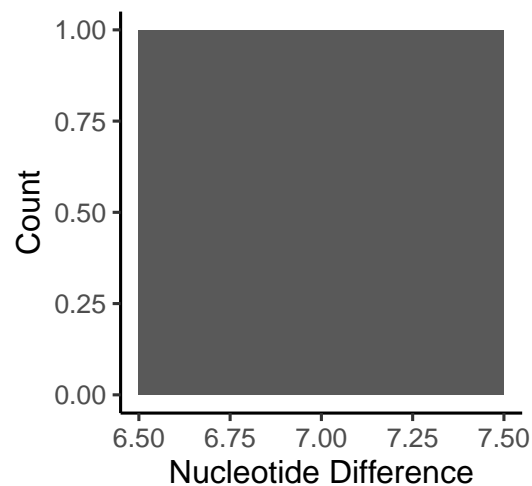
### IGHV1-18\*04

38 sequences assigned  
No exact matches.



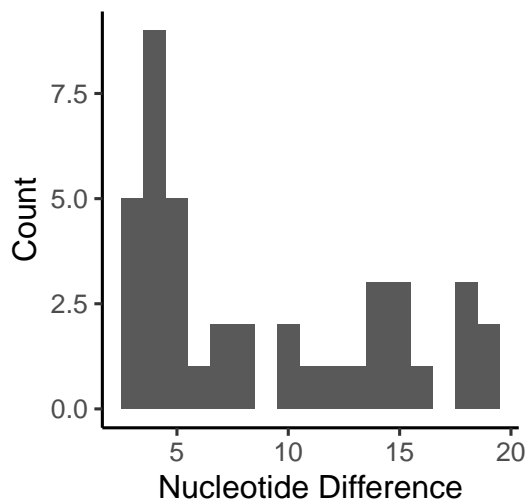
### IGHV1-58\*02

1 sequences assigned  
No exact matches.



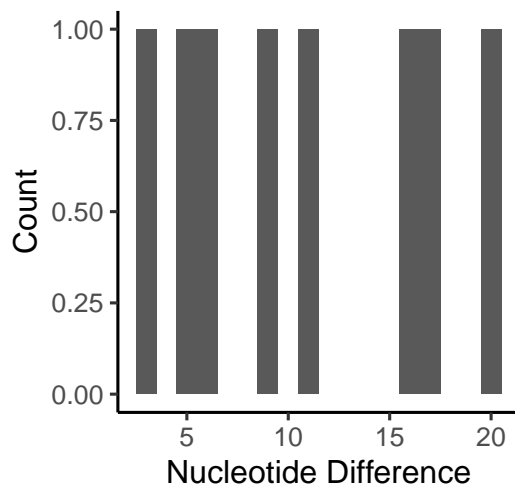
### IGHV1-8\*01

44 sequences assigned  
No exact matches.



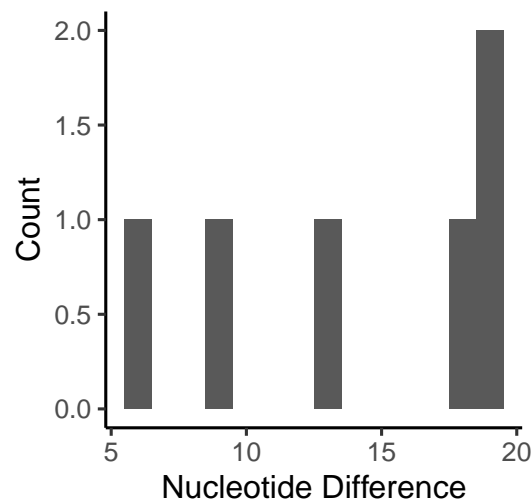
### IGHV1-24\*01

11 sequences assigned  
No exact matches.



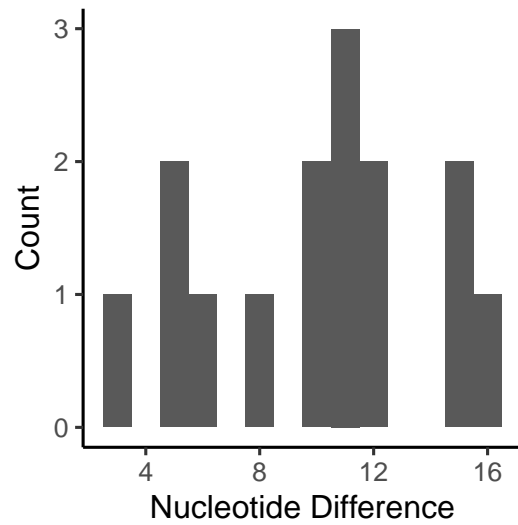
### IGHV1-58\*01\_03

7 sequences assigned  
No exact matches.



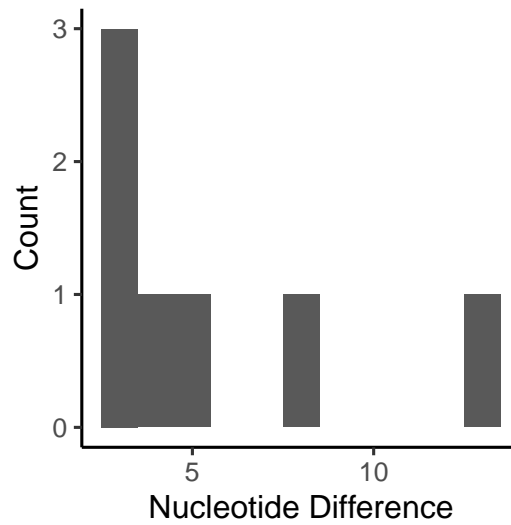
### IGHV1-69\*06\_14

16 sequences assigned  
No exact matches.



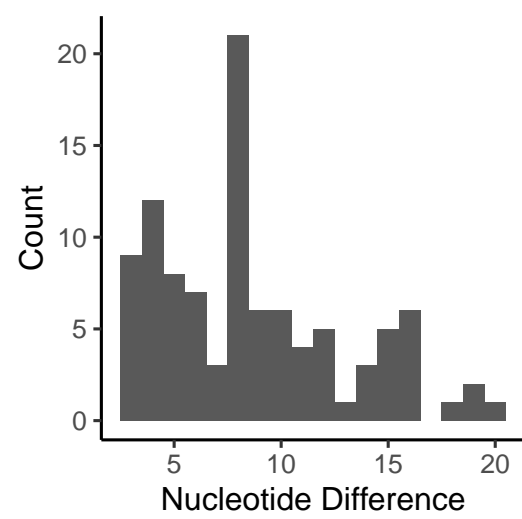
### IGHV2-26\*01

7 sequences assigned  
No exact matches.



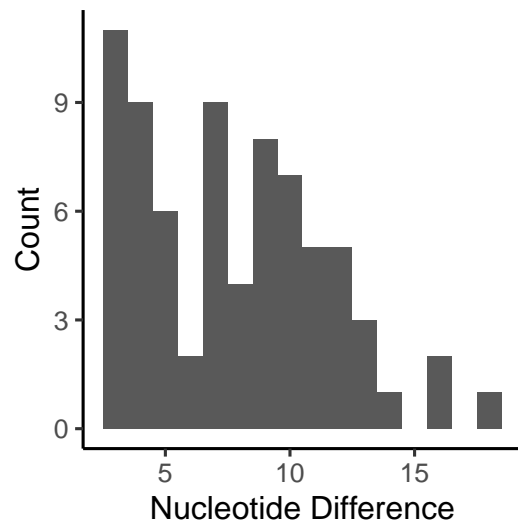
### IGHV3-7\*04

109 sequences assigned  
No exact matches.



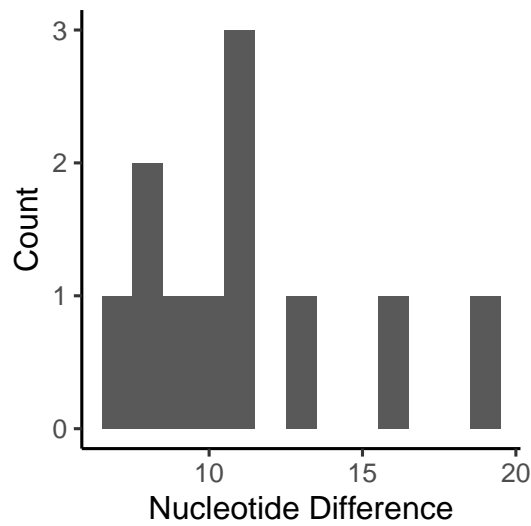
### IGHV2-5\*01

78 sequences assigned  
No exact matches.



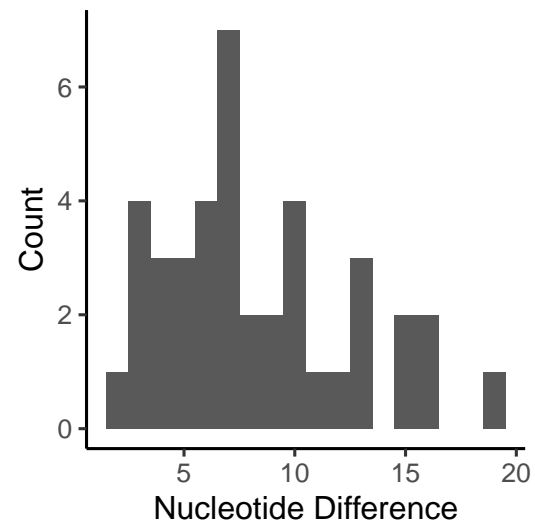
### IGHV2-70\*01

11 sequences assigned  
No exact matches.



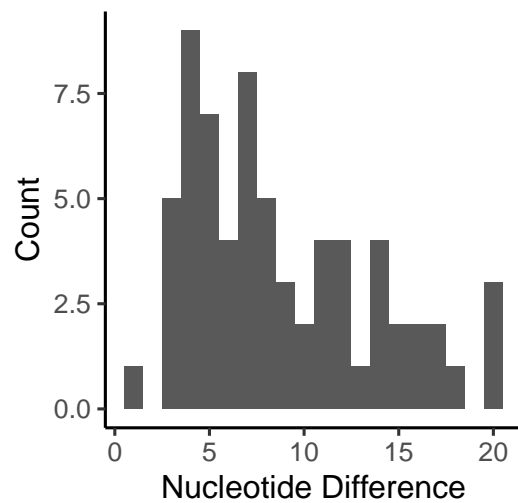
### IGHV3-9\*01

43 sequences assigned  
No exact matches.



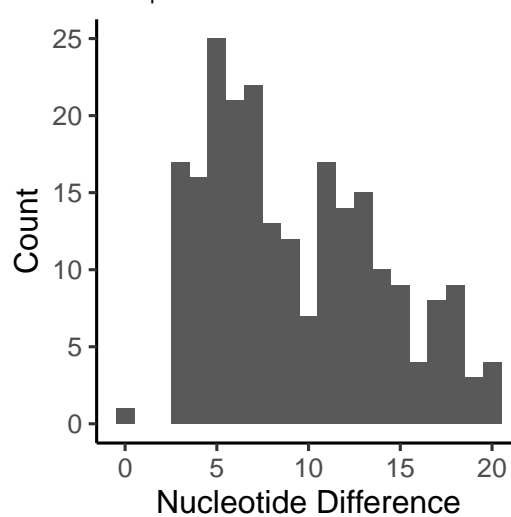
### IGHV2-5\*02

74 sequences assigned  
No exact matches.



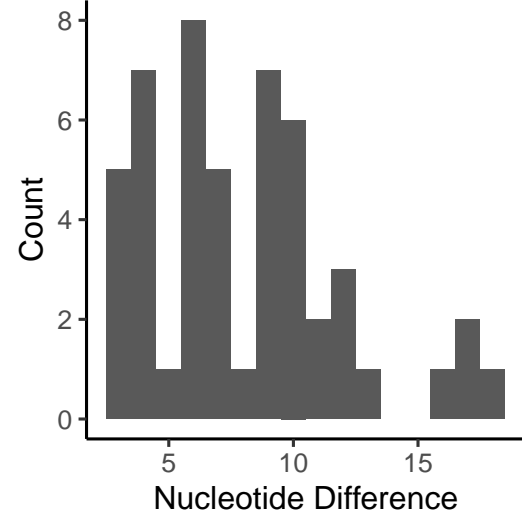
### IGHV3-7\*01

241 sequences assigned  
1 (0.4%) exact matches, in which:  
1 unique CDR3  
1 unique J



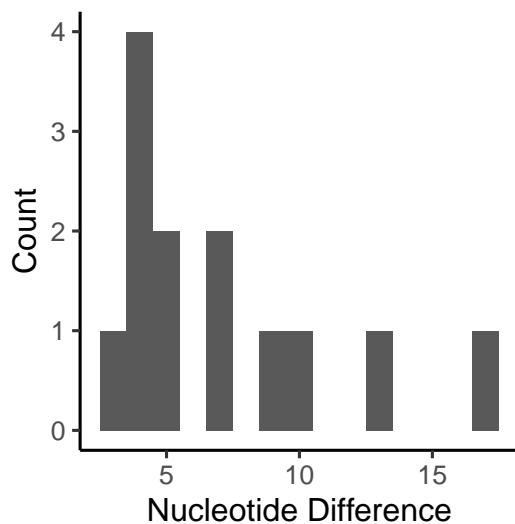
### IGHV3-11\*01

58 sequences assigned  
No exact matches.



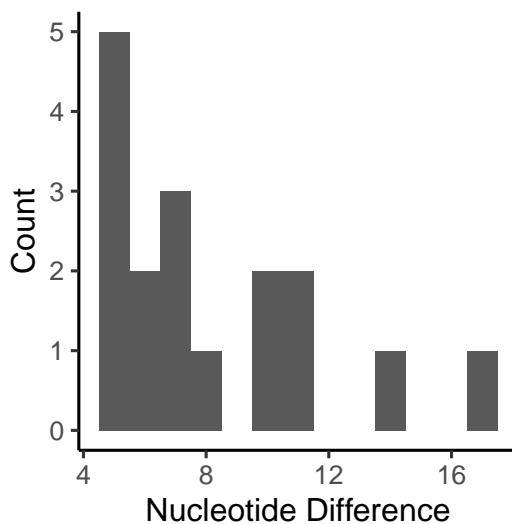
### IGHV3-11\*06

14 sequences assigned  
No exact matches.



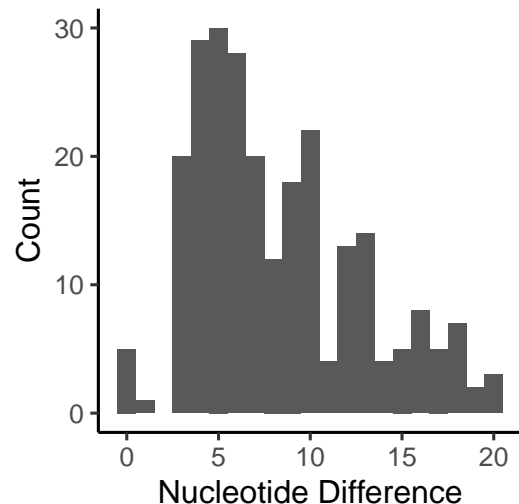
### IGHV3-13\*04

18 sequences assigned  
No exact matches.



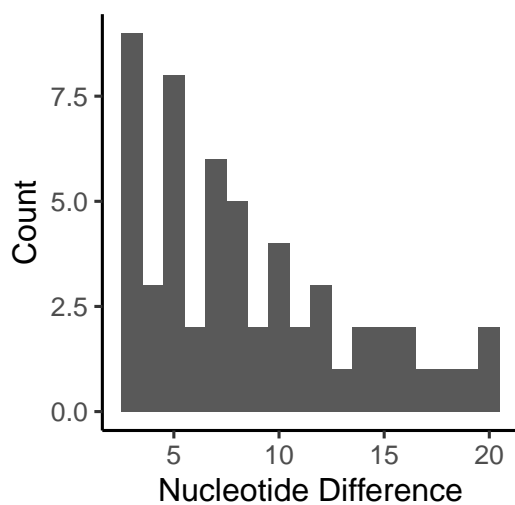
### IGHV3-21\*01\_02

278 sequences assigned  
5 (1.8%) exact matches, in which:  
5 unique CDR3  
1 unique J



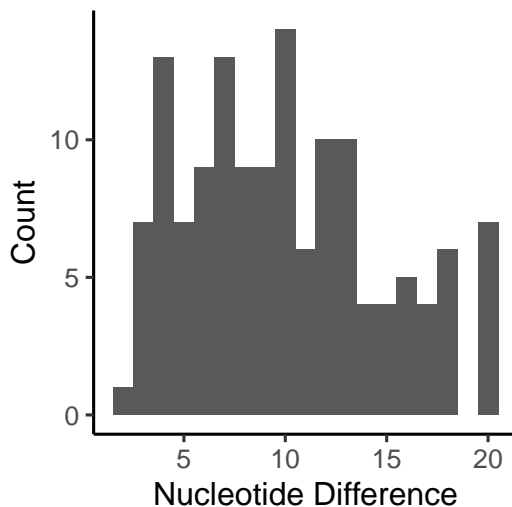
### IGHV3-11\*03\_05

60 sequences assigned  
No exact matches.



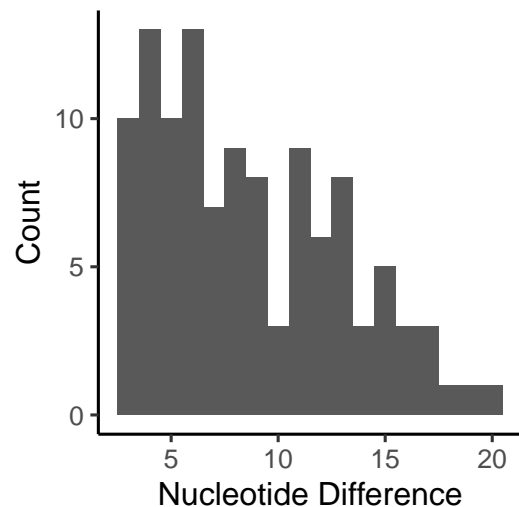
### IGHV3-15\*01\_02

164 sequences assigned  
No exact matches.



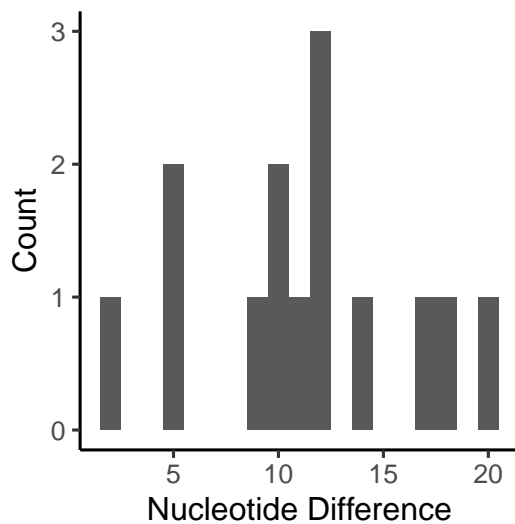
### IGHV3-30-3\*01

132 sequences assigned  
No exact matches.



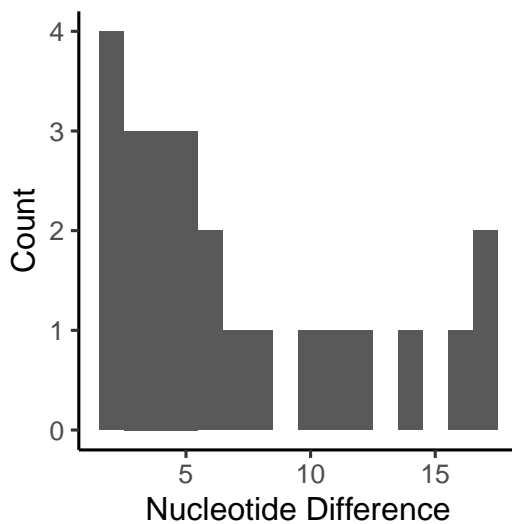
### IGHV3-13\*01

18 sequences assigned  
No exact matches.



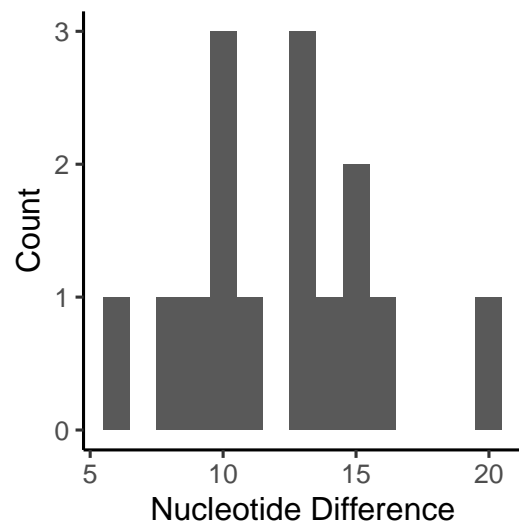
### IGHV3-20\*03\_04

28 sequences assigned  
No exact matches.



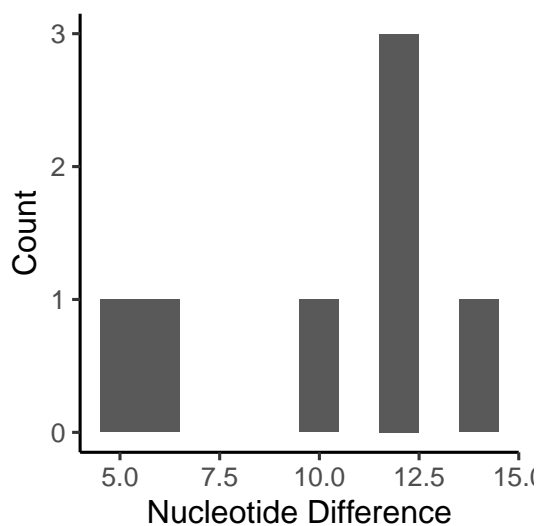
### IGHV3-30\*03

20 sequences assigned  
No exact matches.



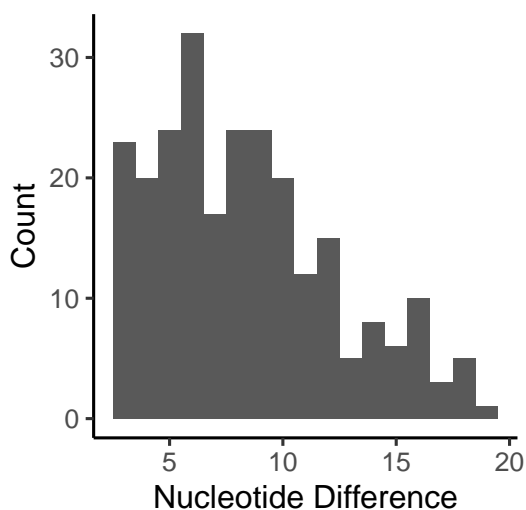
### IGHV3–30\*04

9 sequences assigned  
No exact matches.



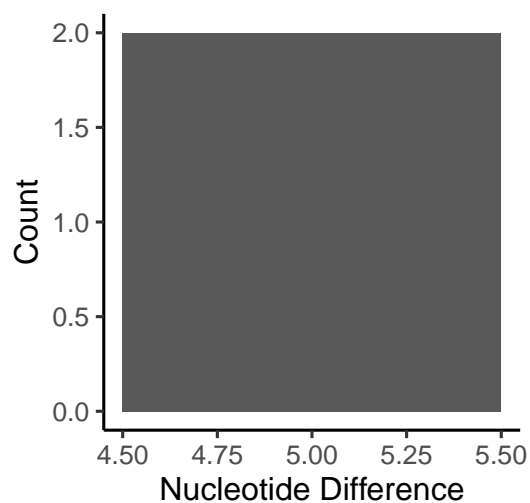
### IGHV3–48\*02

263 sequences assigned  
No exact matches.



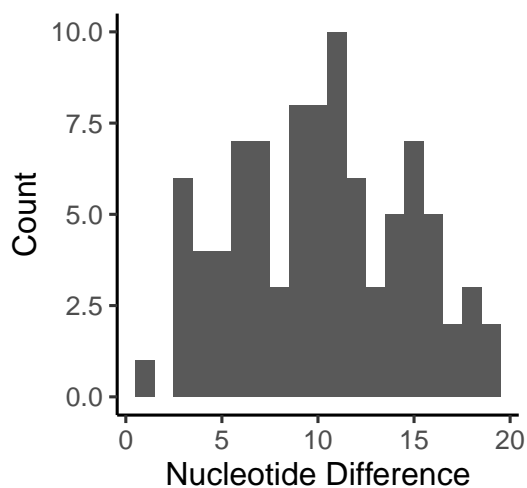
### IGHV3–64\*02\_07

2 sequences assigned  
No exact matches.



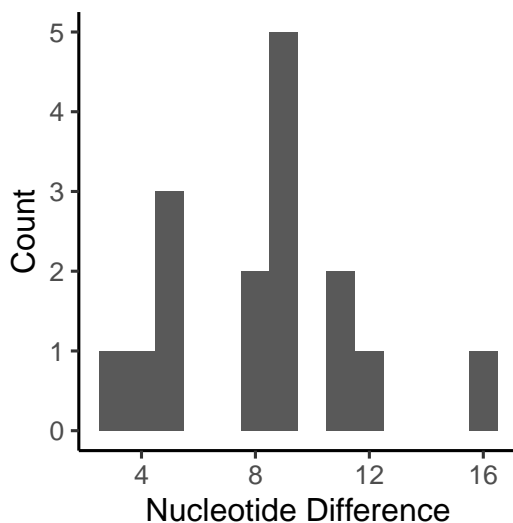
### IGHV3–33\*01

99 sequences assigned  
No exact matches.



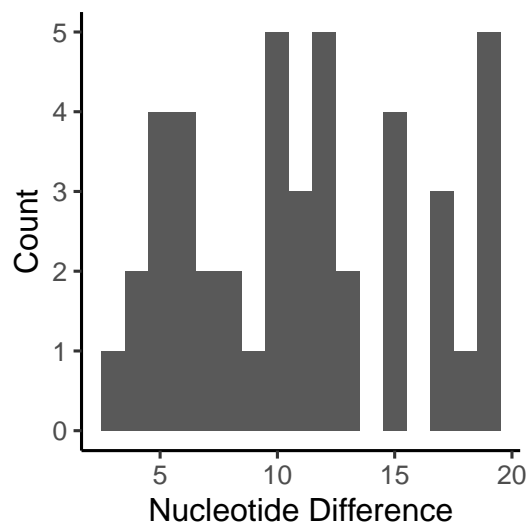
### IGHV3–49\*03\_05

20 sequences assigned  
No exact matches.



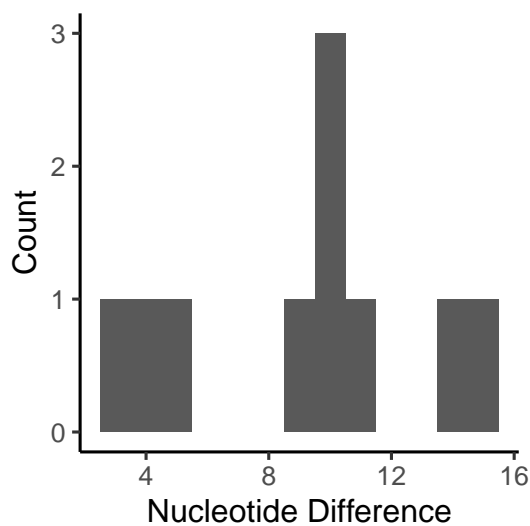
### IGHV3–72\*01

58 sequences assigned  
No exact matches.



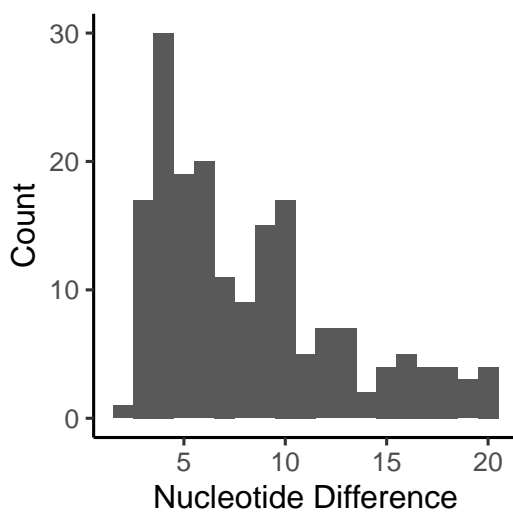
### IGHV3–43\*01

11 sequences assigned  
No exact matches.



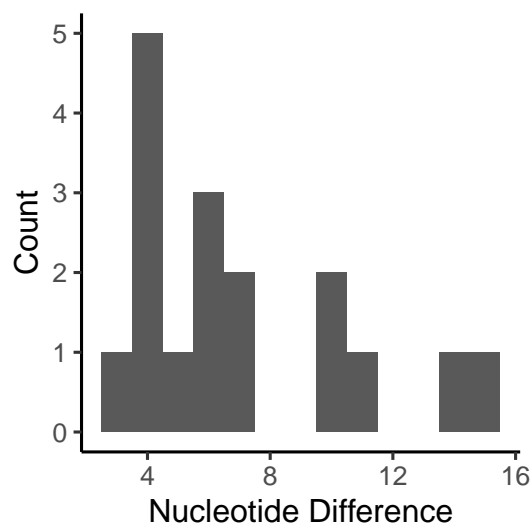
### IGHV3–53\*01\_02

191 sequences assigned  
No exact matches.



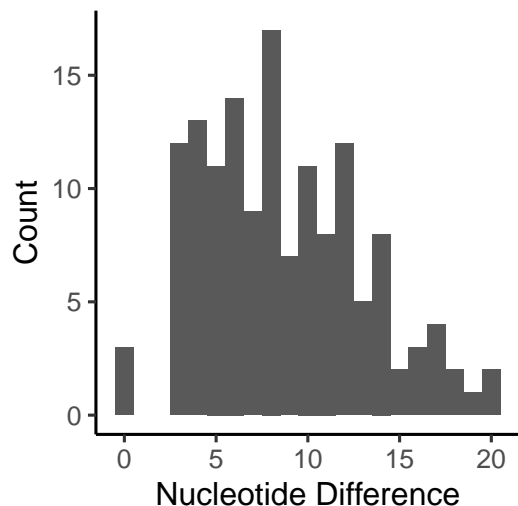
### IGHV3–73\*01\_02

17 sequences assigned  
No exact matches.



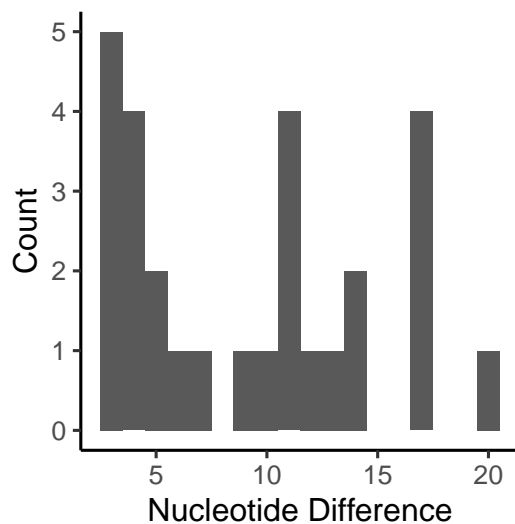
### IGHV3-74\*01\_02

154 sequences assigned  
3 (1.9%) exact matches, in which:  
2 unique CDR3  
2 unique J



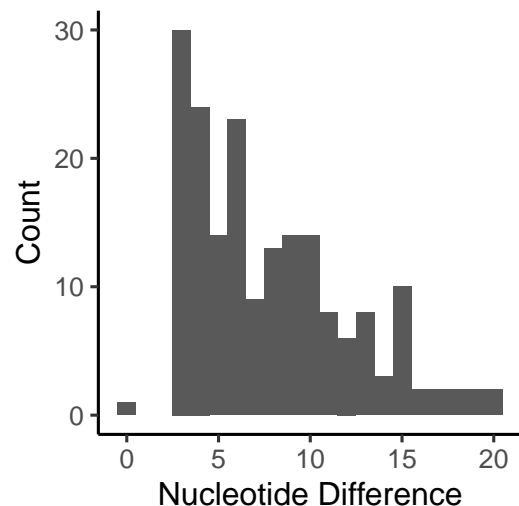
### IGHV4-30-2\*01

45 sequences assigned  
No exact matches.



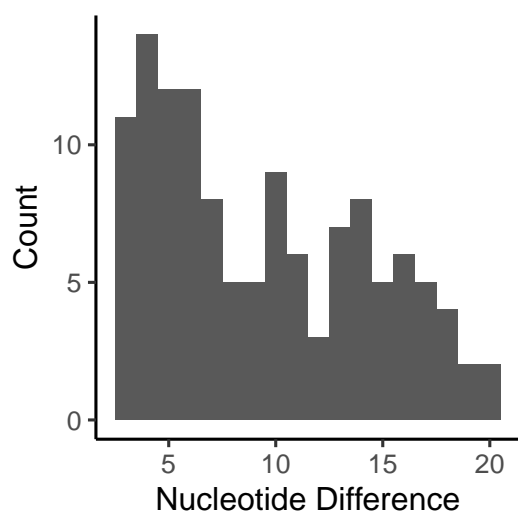
### IGHV4-34\*01\_02

195 sequences assigned  
1 (0.5%) exact matches, in which:  
1 unique CDR3  
1 unique J



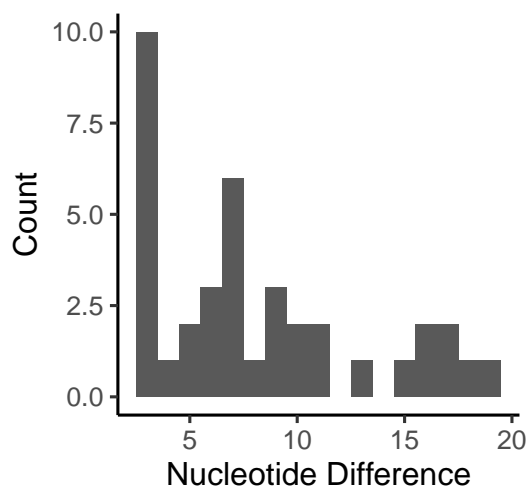
### IGHV3-64D\*06

135 sequences assigned  
No exact matches.



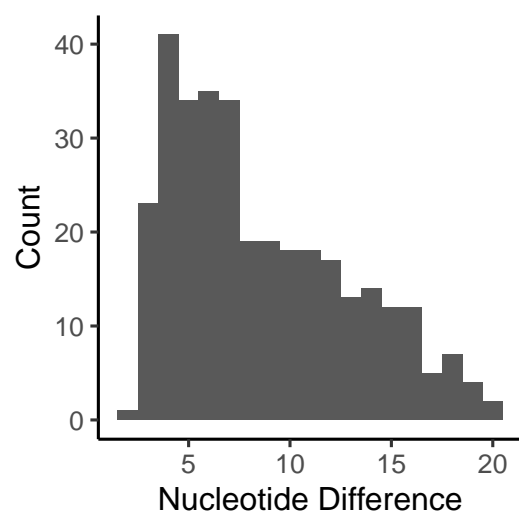
### IGHV4-30-4\*01

46 sequences assigned  
No exact matches.



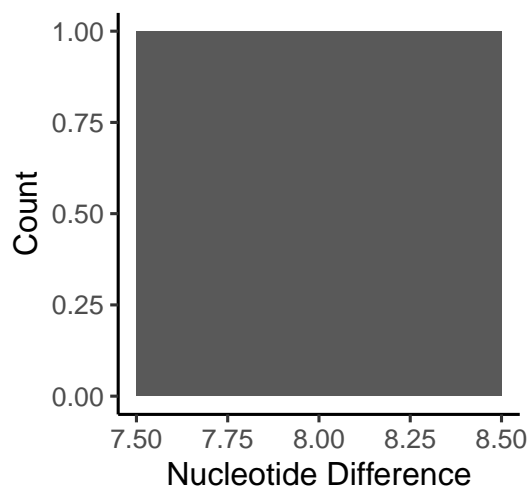
### IGHV4-39\*01\_05

349 sequences assigned  
No exact matches.



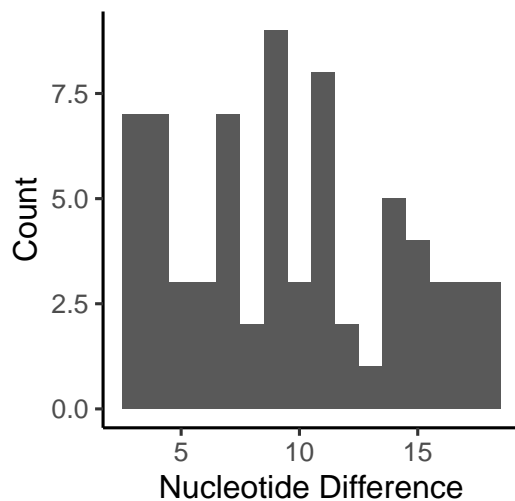
### IGHV4-28\*01\_07

1 sequences assigned  
No exact matches.



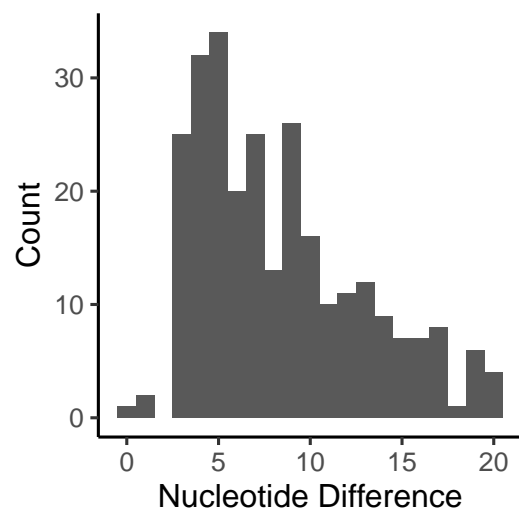
### IGHV4-31\*03\_04

95 sequences assigned  
No exact matches.



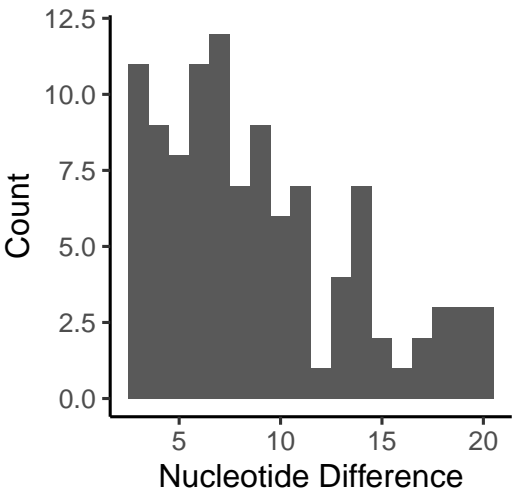
### IGHV4-59\*01\_07

301 sequences assigned  
1 (0.3%) exact matches, in which:  
1 unique CDR3  
1 unique J



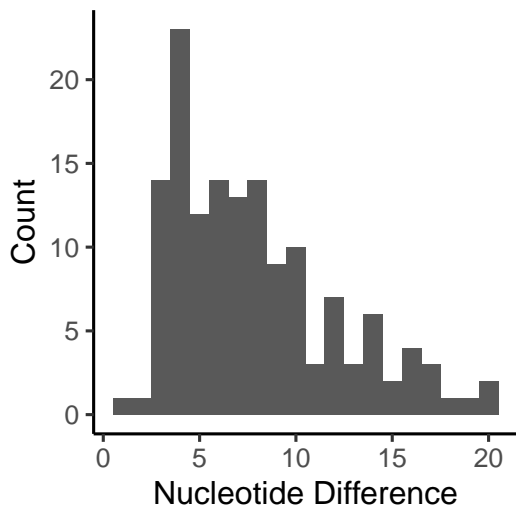
### IGHV4-61\*01

116 sequences assigned  
No exact matches.



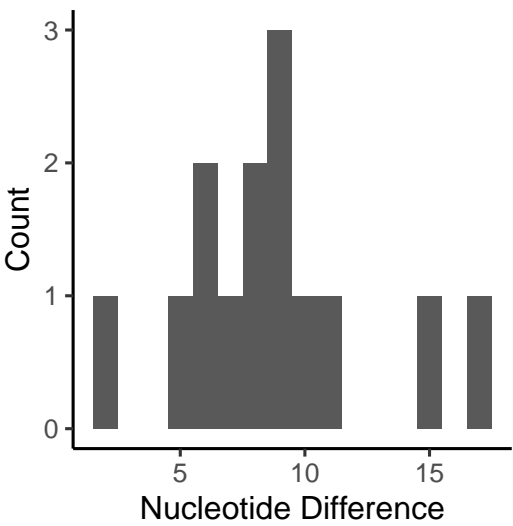
### IGHV6-1\*01\_02

151 sequences assigned  
No exact matches.



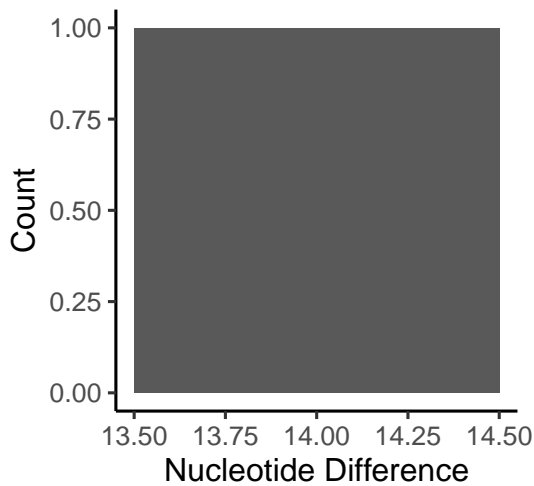
### IGHV5-10-1\*01\_03

16 sequences assigned  
No exact matches.



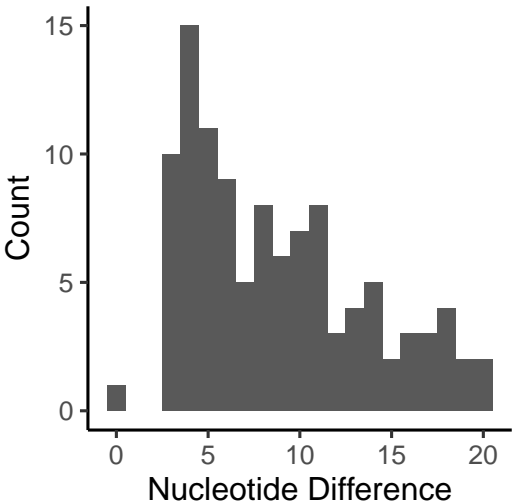
### IGHV7-4-1\*01

1 sequences assigned  
No exact matches.



### IGHV5-51\*01\_03

112 sequences assigned  
1 (0.9%) exact matches, in which:  
1 unique CDR3  
1 unique J





warning – no inferred sequences found.