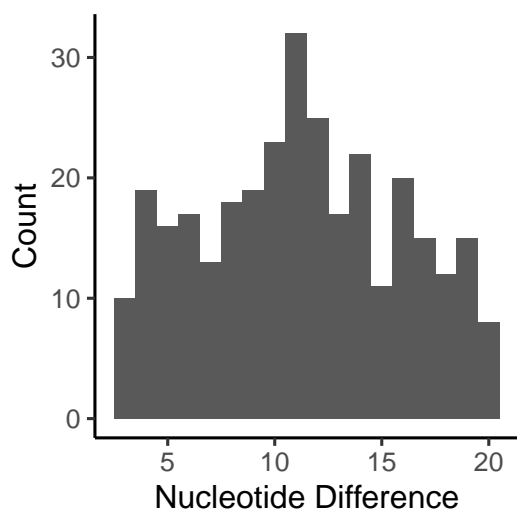


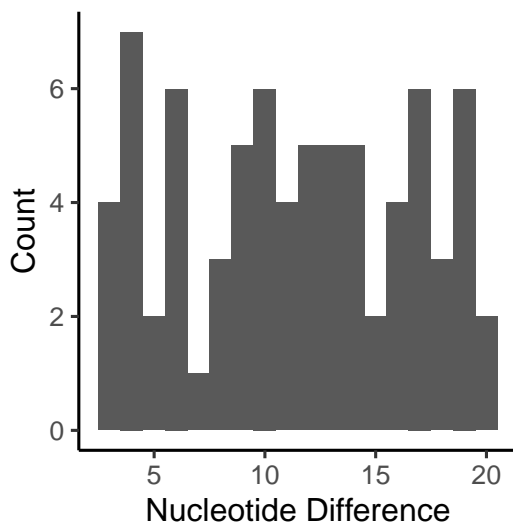
### IGHV1-2\*02

351 sequences assigned  
No exact matches.



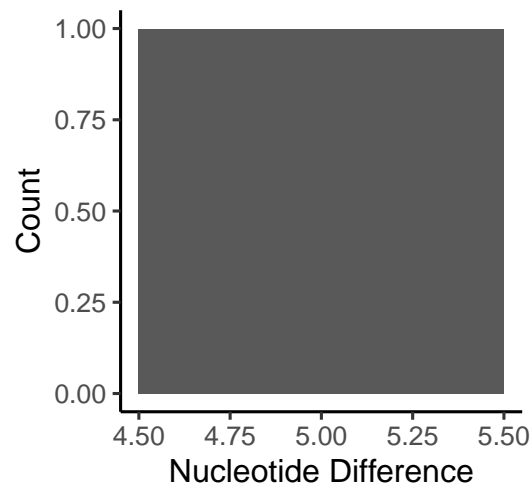
### IGHV1-18\*01

100 sequences assigned  
No exact matches.



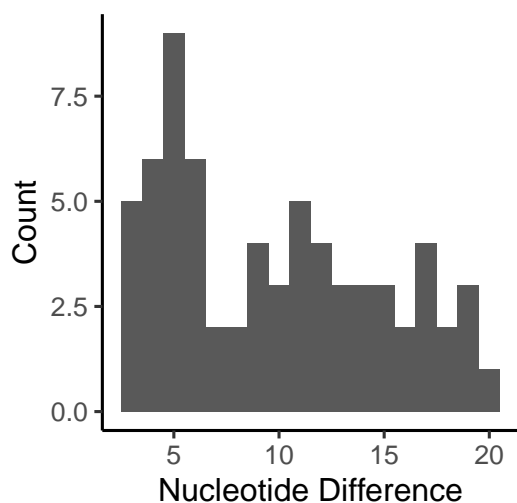
### IGHV1-45\*02

1 sequences assigned  
No exact matches.



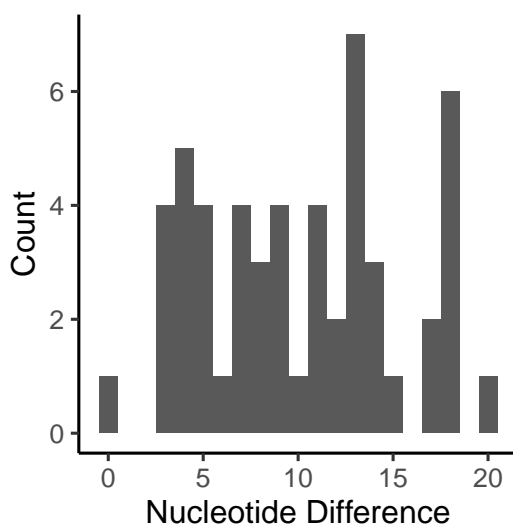
### IGHV1-3\*01\_05

79 sequences assigned  
No exact matches.



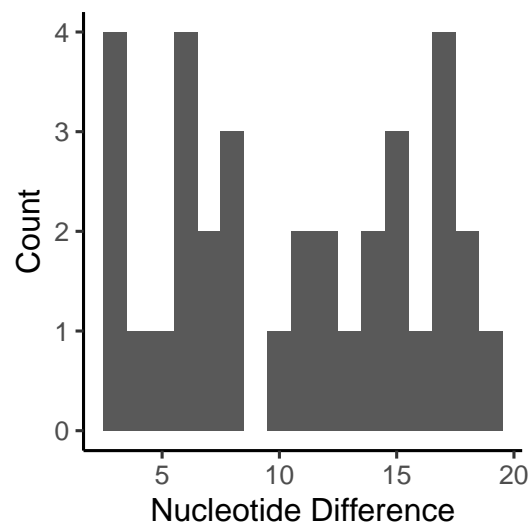
### IGHV1-18\*04

66 sequences assigned  
1 (1.5%) exact matches, in which:  
1 unique CDR3  
1 unique J



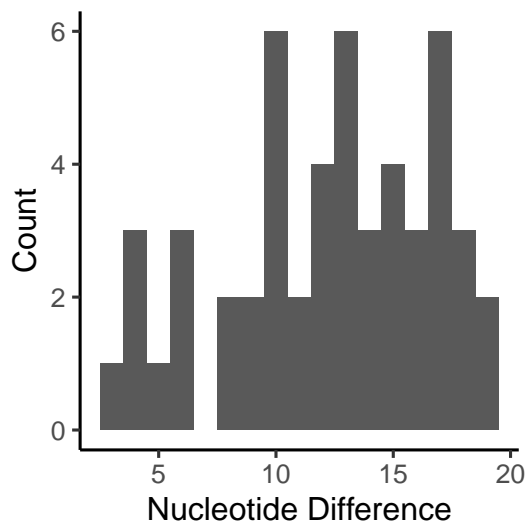
### IGHV1-46\*01

43 sequences assigned  
No exact matches.



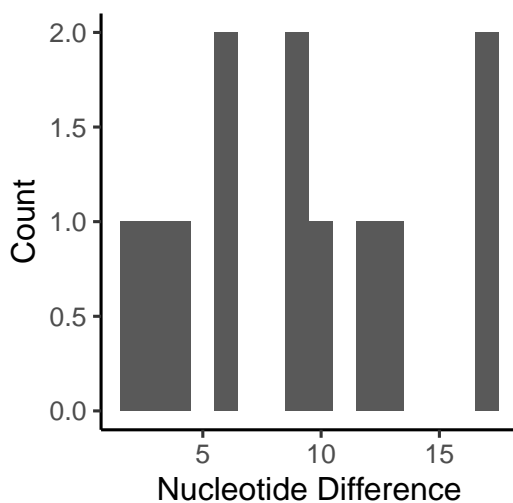
### IGHV1-8\*03

72 sequences assigned  
No exact matches.



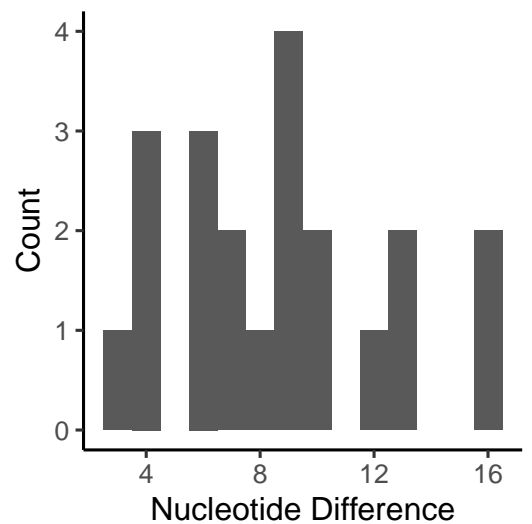
### IGHV1-24\*01

17 sequences assigned  
No exact matches.



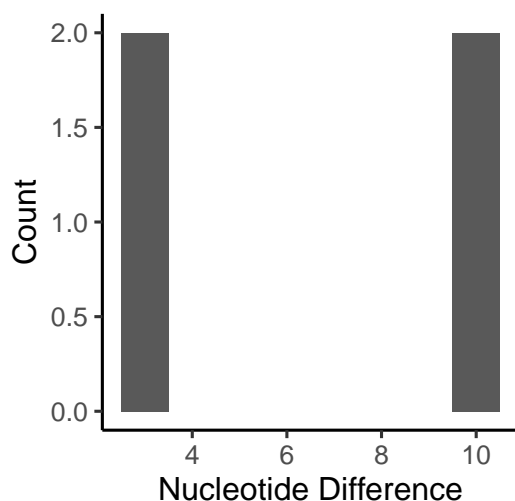
### IGHV1-46\*03

24 sequences assigned  
No exact matches.



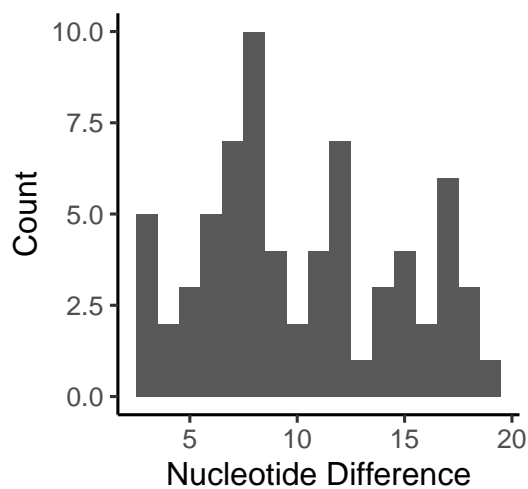
### IGHV1-58\*02

4 sequences assigned  
No exact matches.



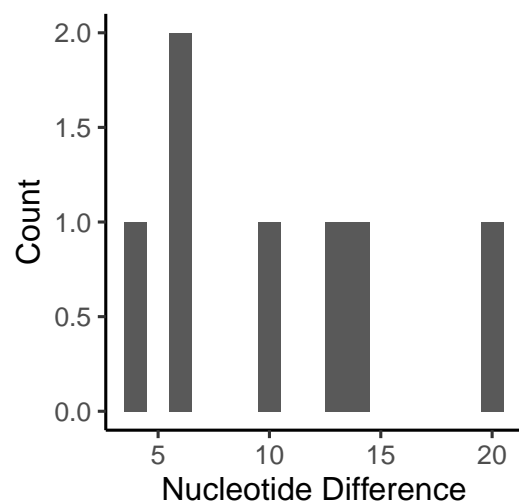
### IGHV2-5\*01

74 sequences assigned  
No exact matches.



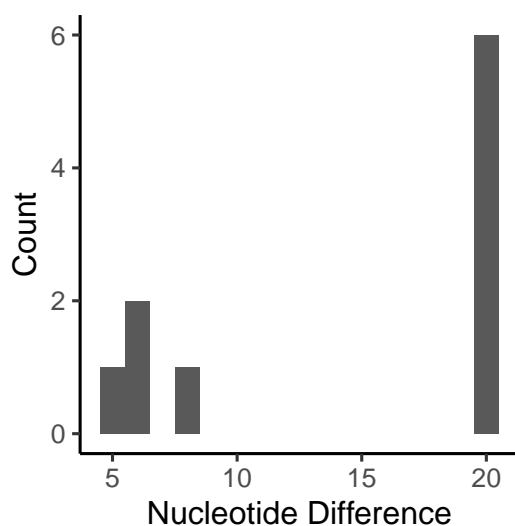
### IGHV2-70\*01

10 sequences assigned  
No exact matches.



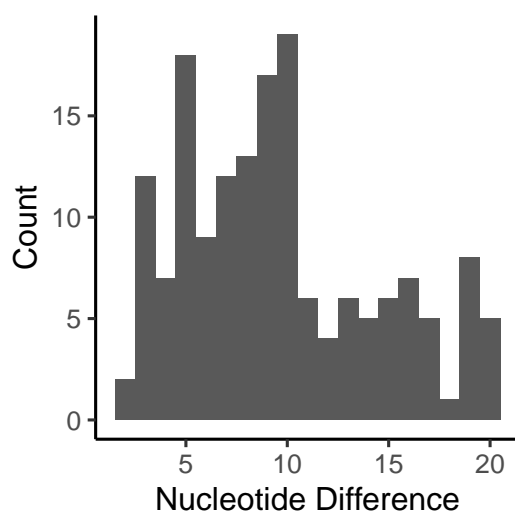
### IGHV1-58\*01\_03

13 sequences assigned  
No exact matches.



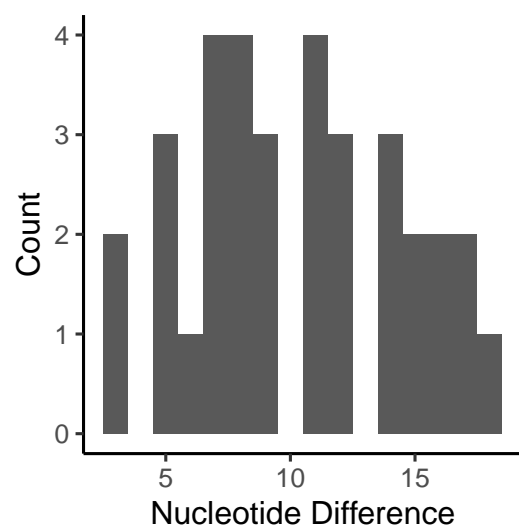
### IGHV2-5\*02

196 sequences assigned  
No exact matches.



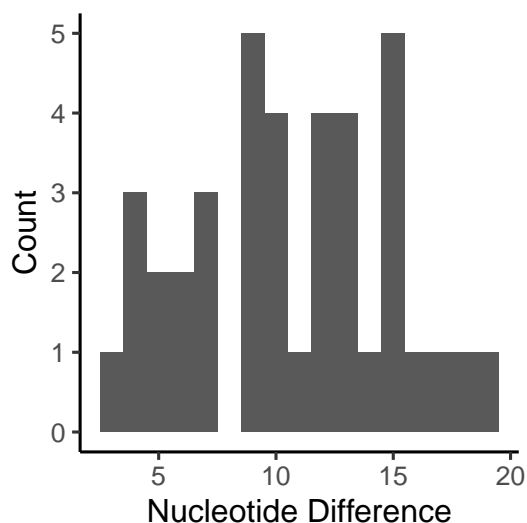
### IGHV2-70\*11\_15

37 sequences assigned  
No exact matches.



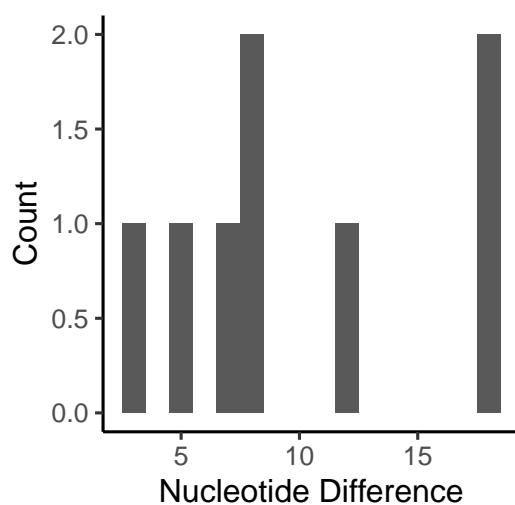
### IGHV1-69\*01\_12\_13

65 sequences assigned  
No exact matches.



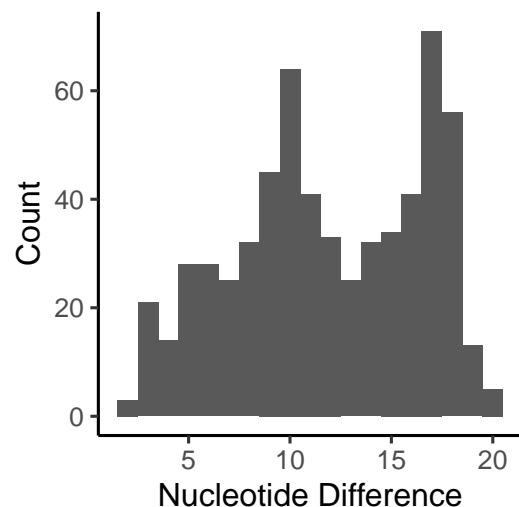
### IGHV2-26\*01

8 sequences assigned  
No exact matches.



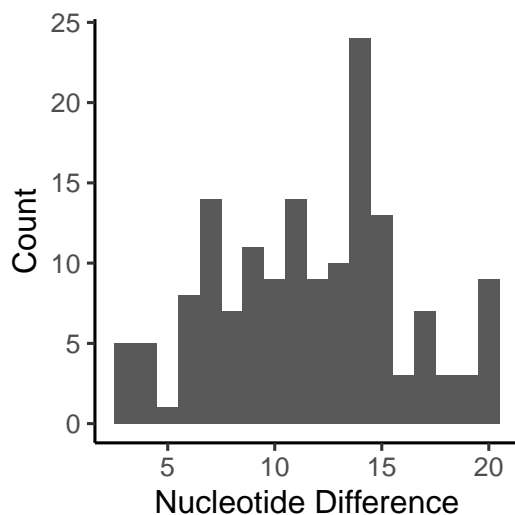
### IGHV3-7\*01

696 sequences assigned  
No exact matches.



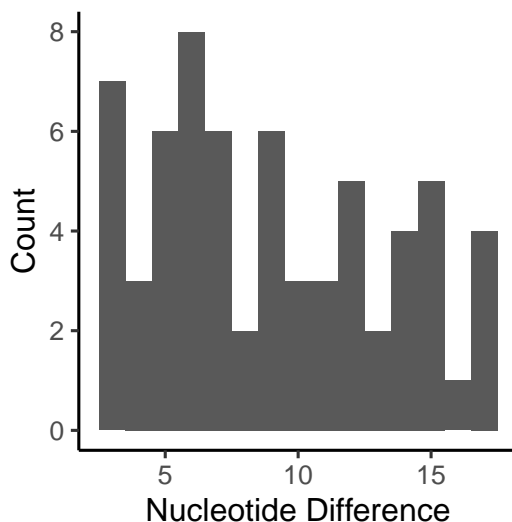
### IGHV3-7\*04

183 sequences assigned  
No exact matches.



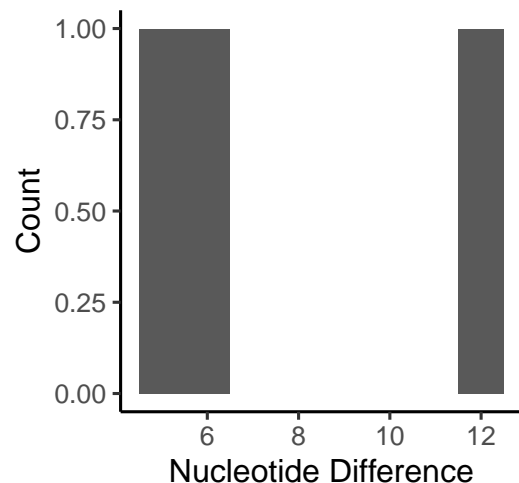
### IGHV3-11\*04

92 sequences assigned  
No exact matches.



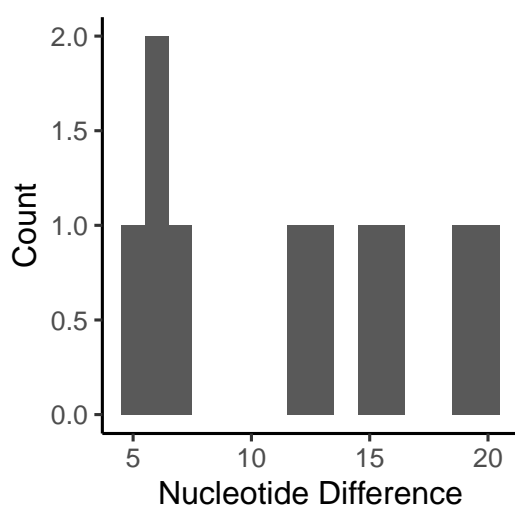
### IGHV3-13\*01

3 sequences assigned  
No exact matches.



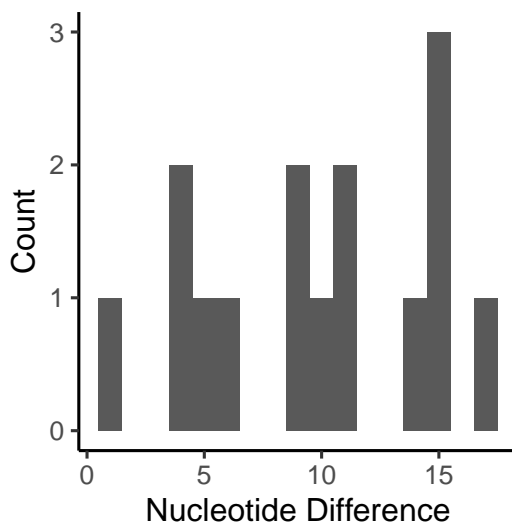
### IGHV3-9\*01

12 sequences assigned  
No exact matches.



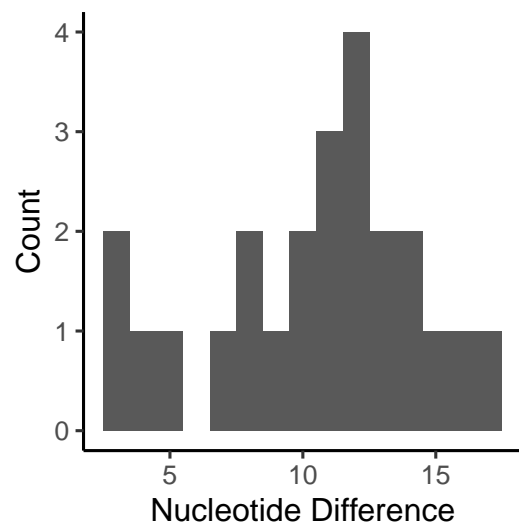
### IGHV3-11\*06

19 sequences assigned  
No exact matches.



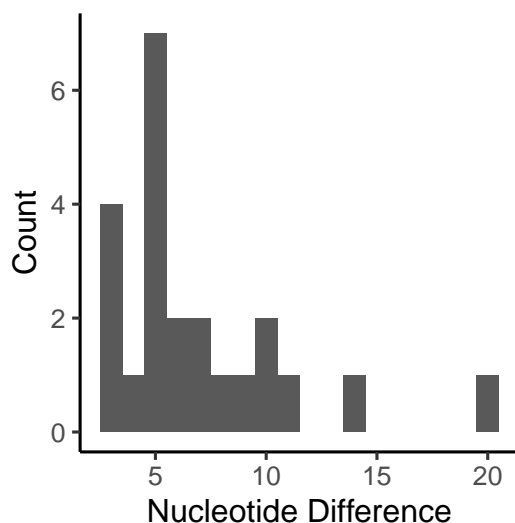
### IGHV3-13\*04

28 sequences assigned  
No exact matches.



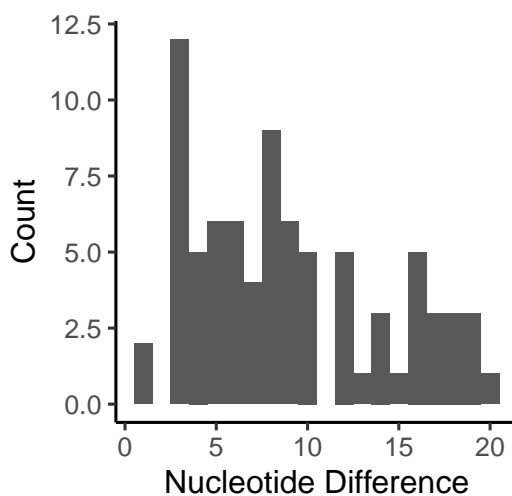
### IGHV3-9\*03

29 sequences assigned  
No exact matches.



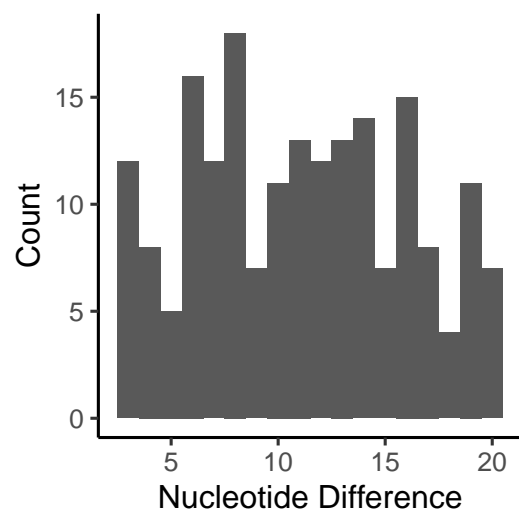
### IGHV3-11\*03\_05

90 sequences assigned  
No exact matches.



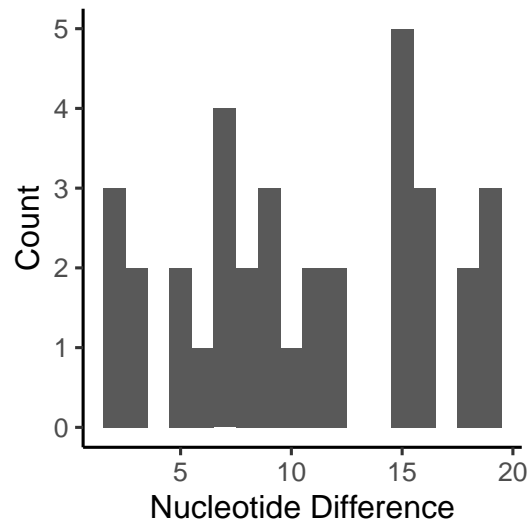
### IGHV3-15\*01\_02

240 sequences assigned  
No exact matches.



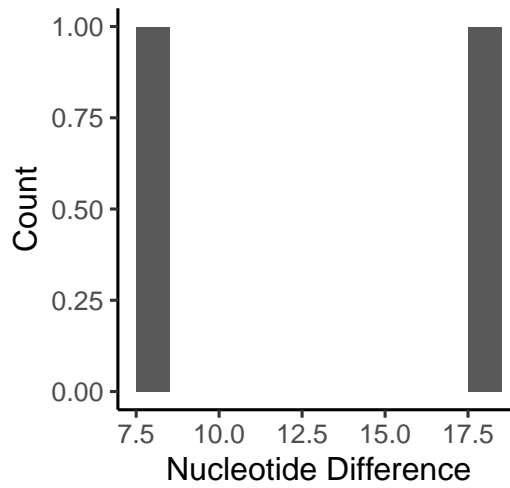
### IGHV3-20\*03\_04

43 sequences assigned  
No exact matches.



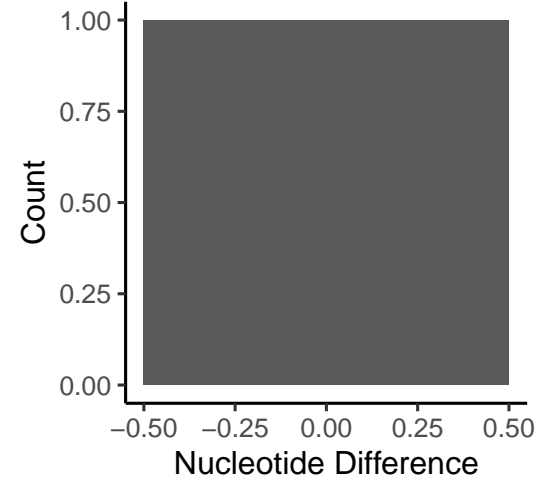
### IGHV3-30-3\*03

2 sequences assigned  
No exact matches.



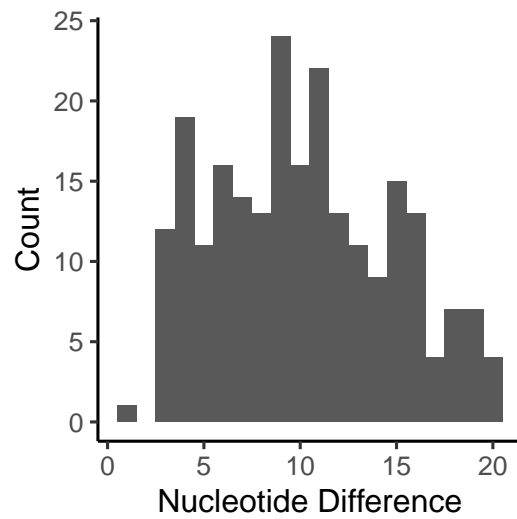
### IGHV3-47\*02

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



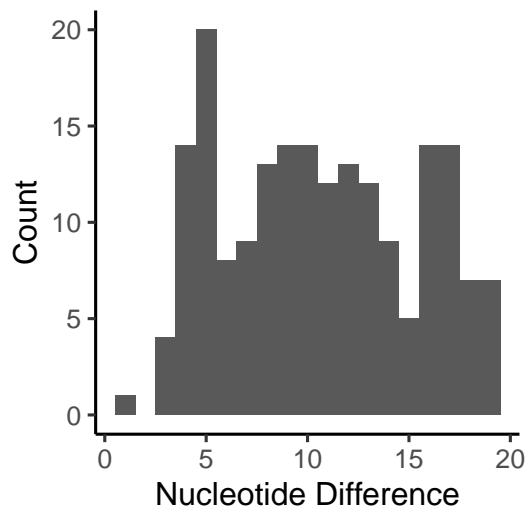
### IGHV3-21\*01\_02

291 sequences assigned  
No exact matches.



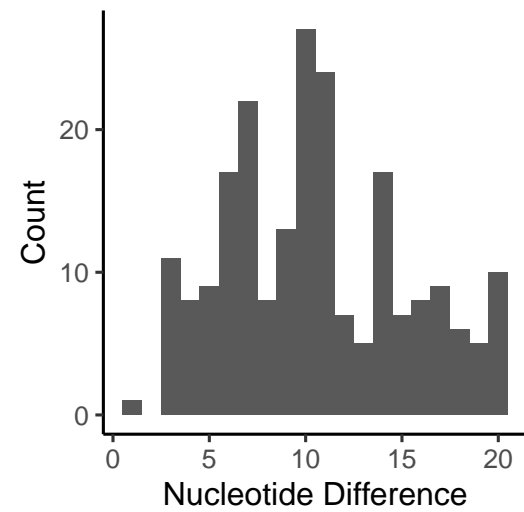
### IGHV3-33\*01

224 sequences assigned  
No exact matches.



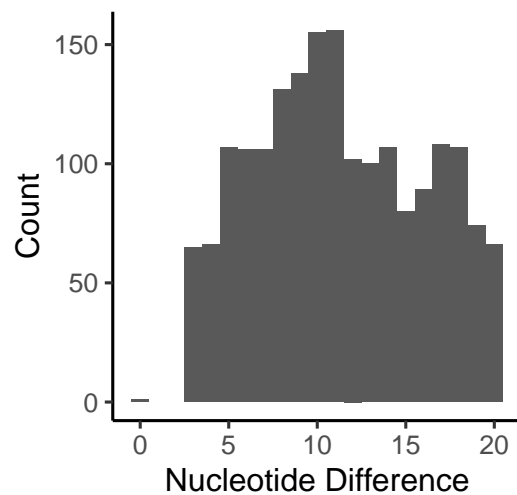
### IGHV3-48\*01

250 sequences assigned  
No exact matches.



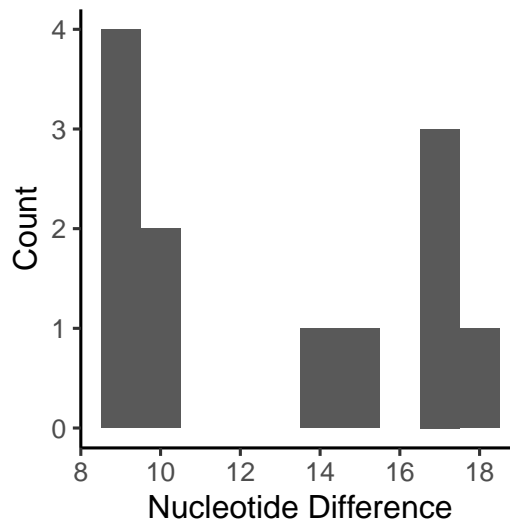
### IGHV3-23\*01\_04

2217 sequences assigned  
1 (0%) exact matches, in which:  
1 unique CDR3  
1 unique J



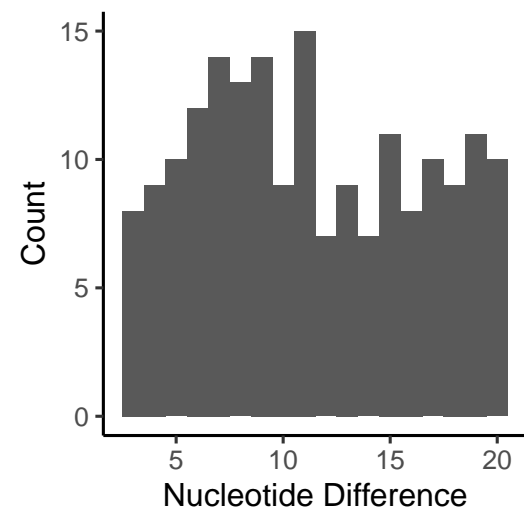
### IGHV3-43\*01

15 sequences assigned  
No exact matches.



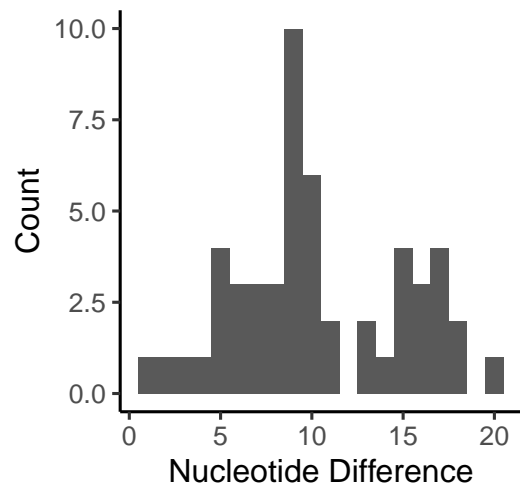
### IGHV3-48\*02

241 sequences assigned  
No exact matches.



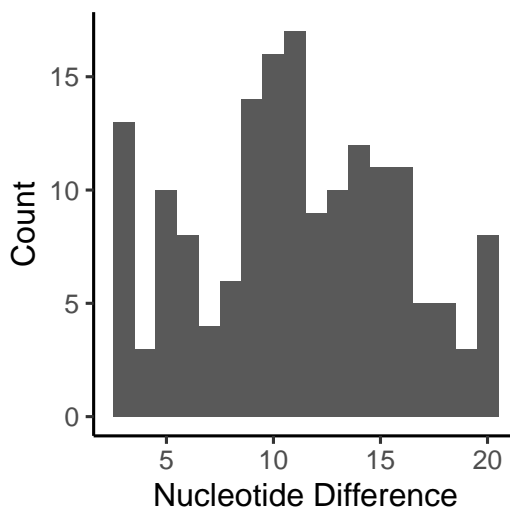
### IGHV3-49\*03\_05

67 sequences assigned  
No exact matches.



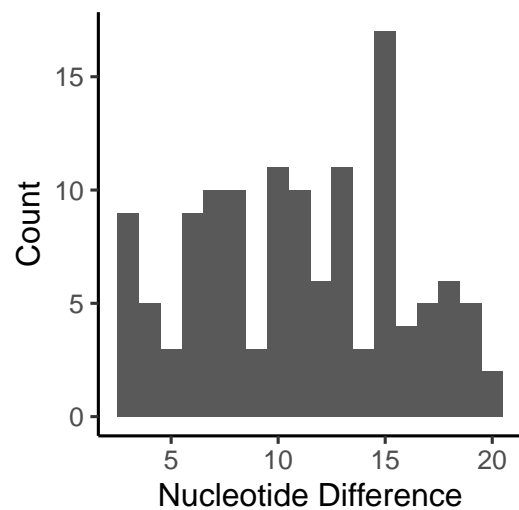
### IGHV3-53\*01\_02

180 sequences assigned  
No exact matches.



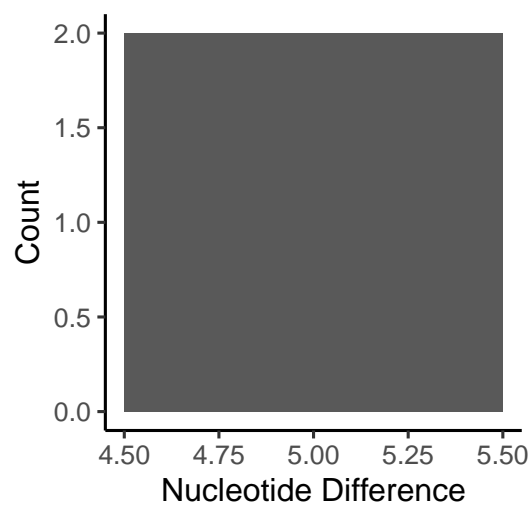
### IGHV3-66\*01

137 sequences assigned  
No exact matches.



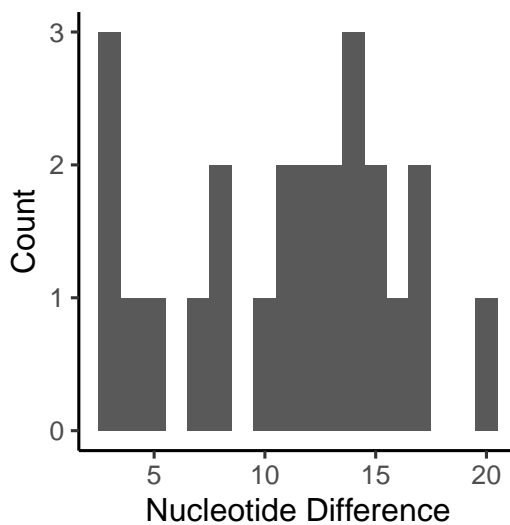
### IGHV3-52\*01\_03

2 sequences assigned  
No exact matches.



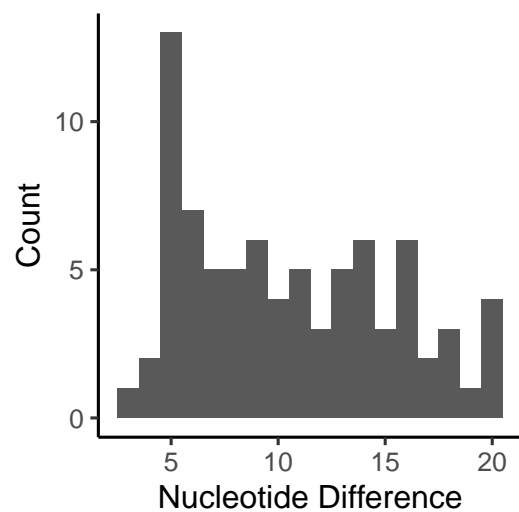
### IGHV3-64\*01

27 sequences assigned  
No exact matches.



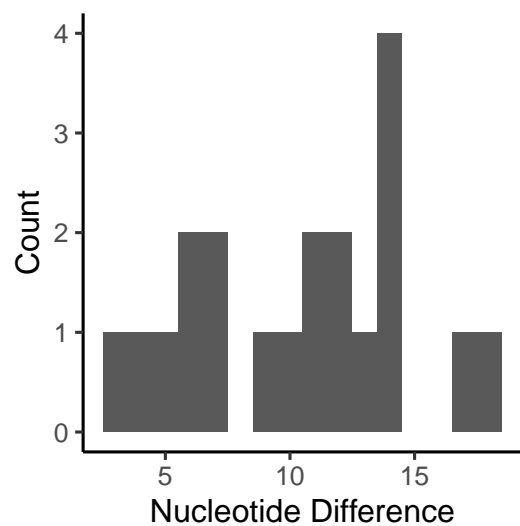
### IGHV3-72\*01

85 sequences assigned  
No exact matches.



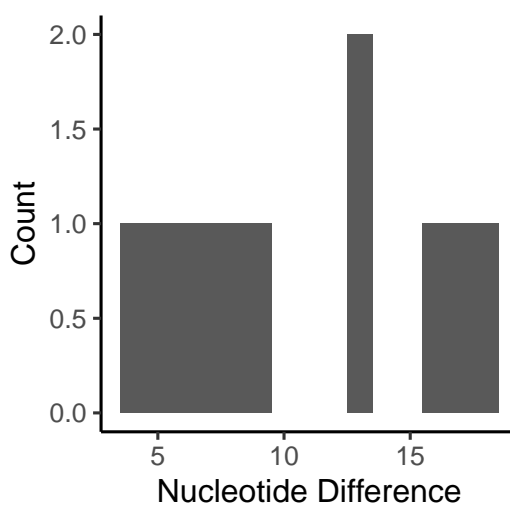
### IGHV3-53\*04

30 sequences assigned  
No exact matches.



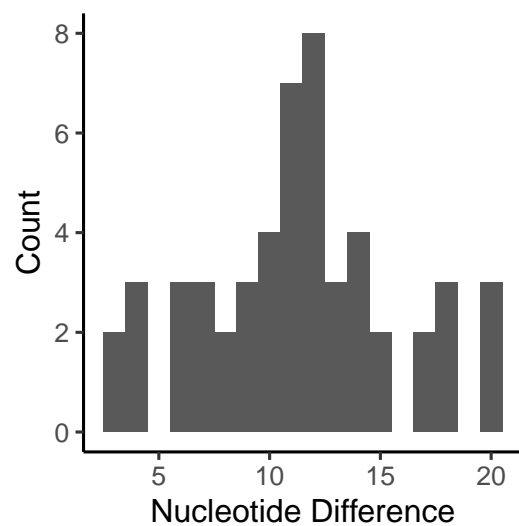
### IGHV3-64\*02\_07

11 sequences assigned  
No exact matches.



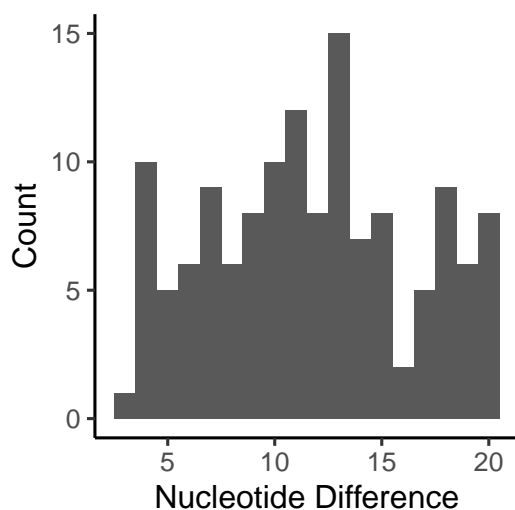
### IGHV3-73\*01\_02

65 sequences assigned  
No exact matches.



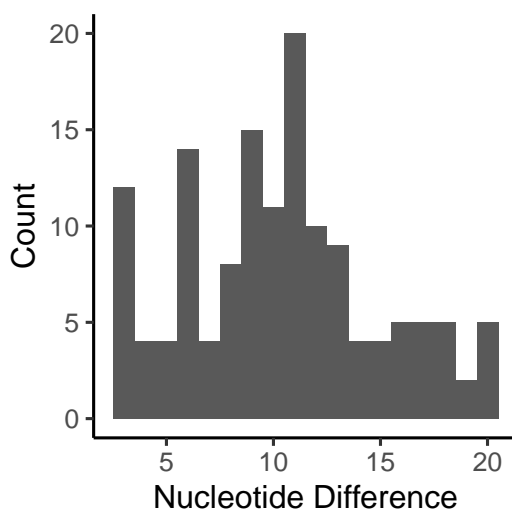
### IGHV3-74\*03

157 sequences assigned  
No exact matches.



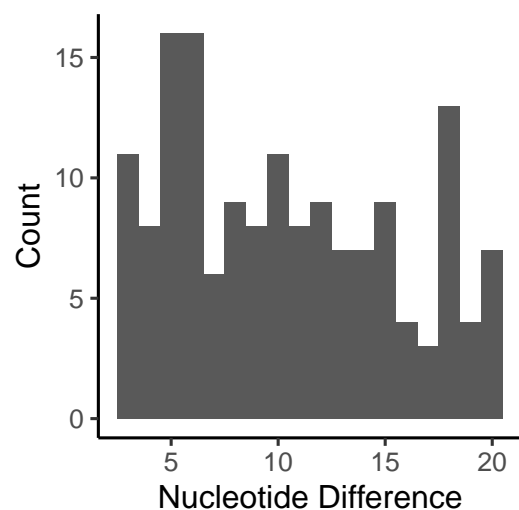
### IGHV4-4\*07

176 sequences assigned  
No exact matches.



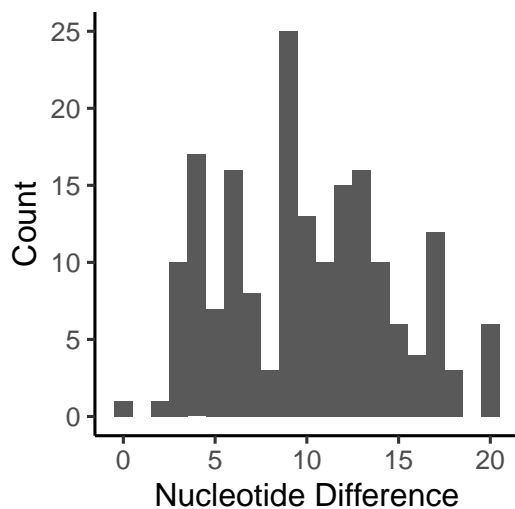
### IGHV4-34\*01\_02

210 sequences assigned  
No exact matches.



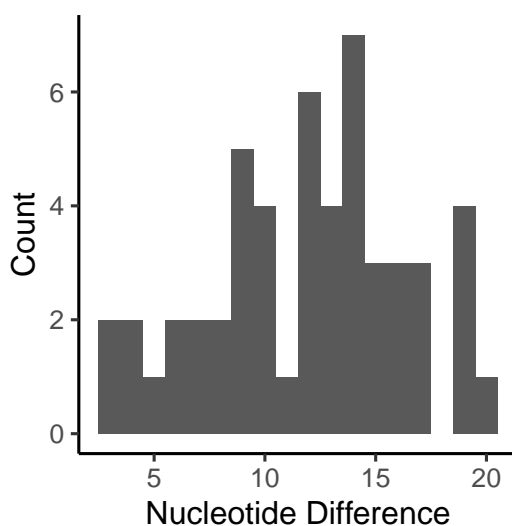
### IGHV3-74\*01\_02

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



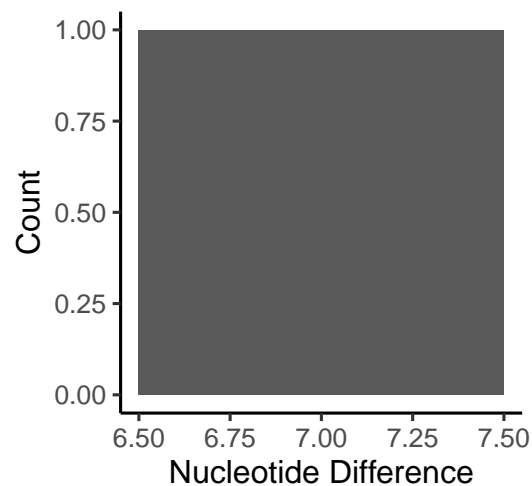
### IGHV4-4\*02\_03

66 sequences assigned  
No exact matches.



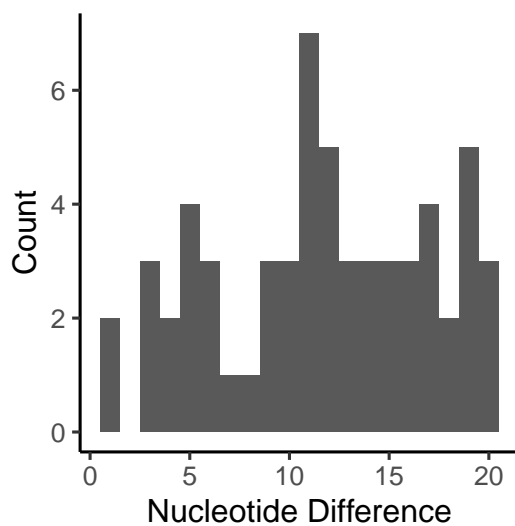
### IGHV4-38-2\*02

2 sequences assigned  
No exact matches.



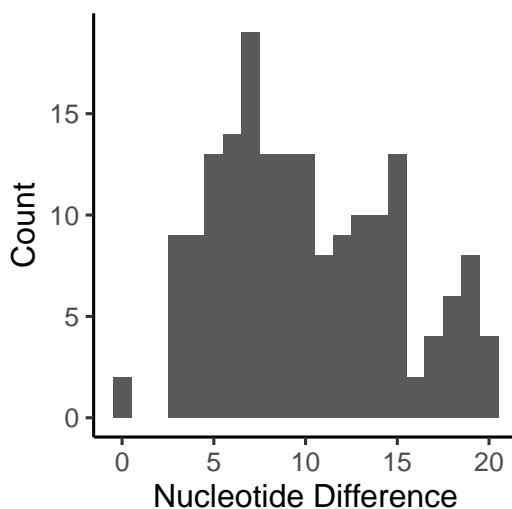
### IGHV3-64D\*06

77 sequences assigned  
No exact matches.



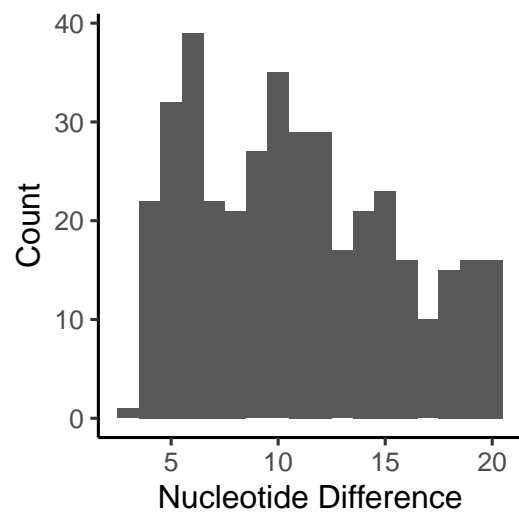
### IGHV4-31\*02

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



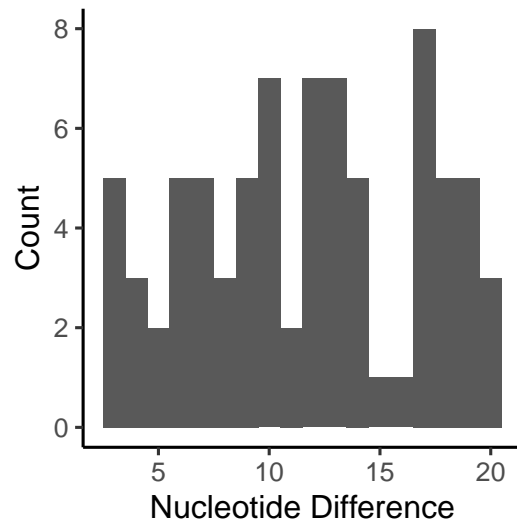
### IGHV4-39\*02

514 sequences assigned  
No exact matches.



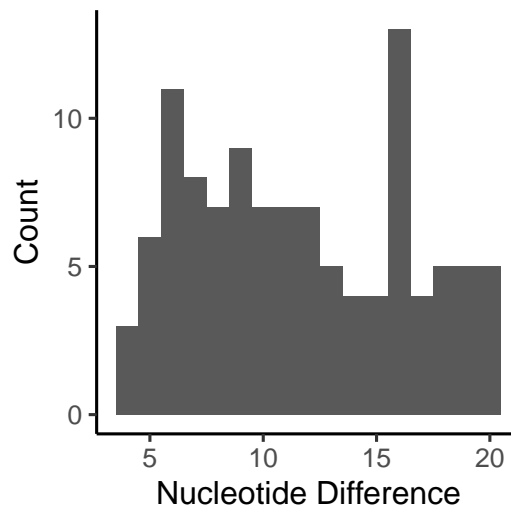
### IGHV4-39\*01\_05

105 sequences assigned  
No exact matches.



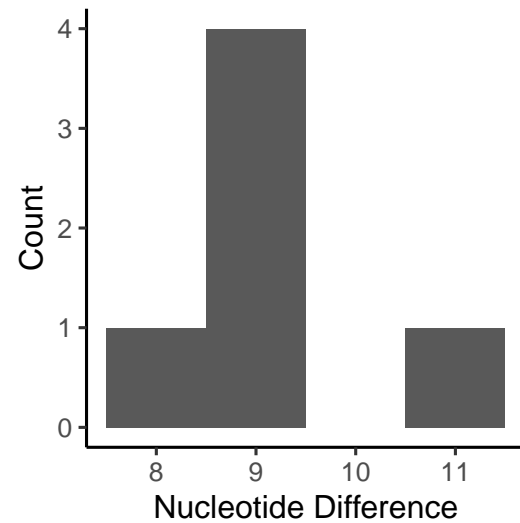
### IGHV4-59\*11

156 sequences assigned  
No exact matches.



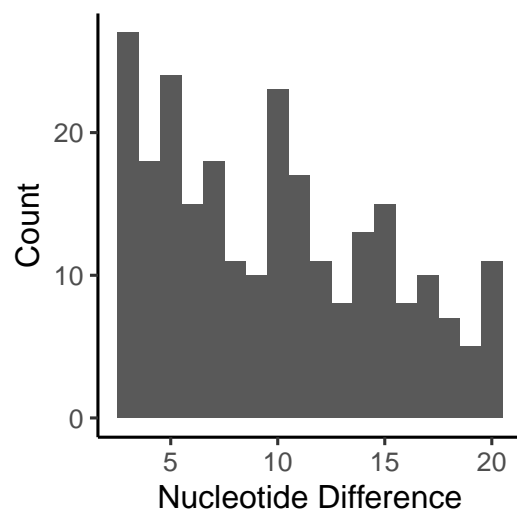
### IGHV5-10-1\*01\_03

10 sequences assigned  
No exact matches.



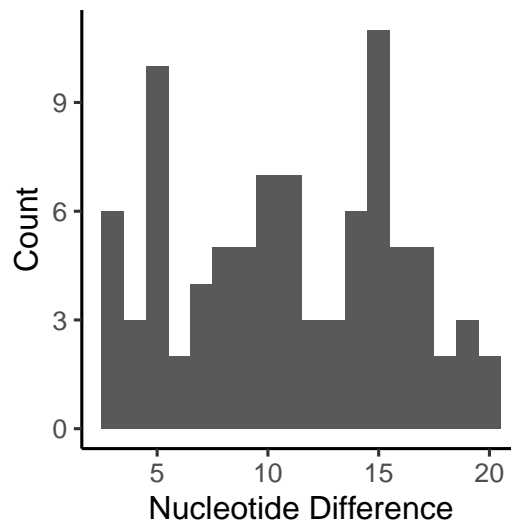
### IGHV4-59\*08

283 sequences assigned  
No exact matches.



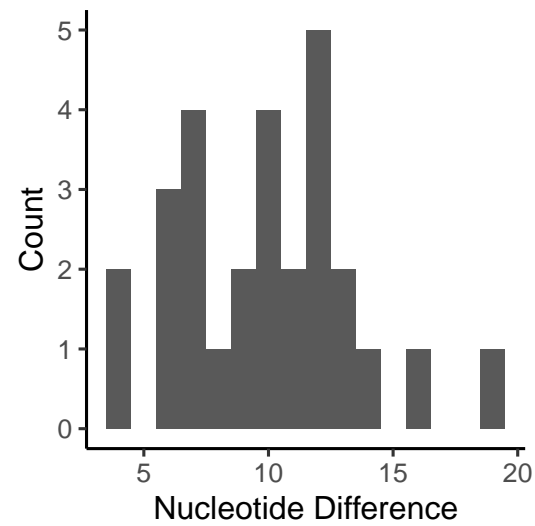
### IGHV4-61\*01

107 sequences assigned  
No exact matches.



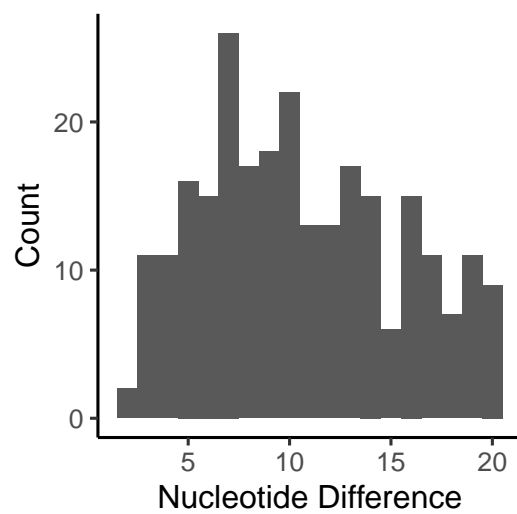
### IGHV5-51\*07

31 sequences assigned  
No exact matches.



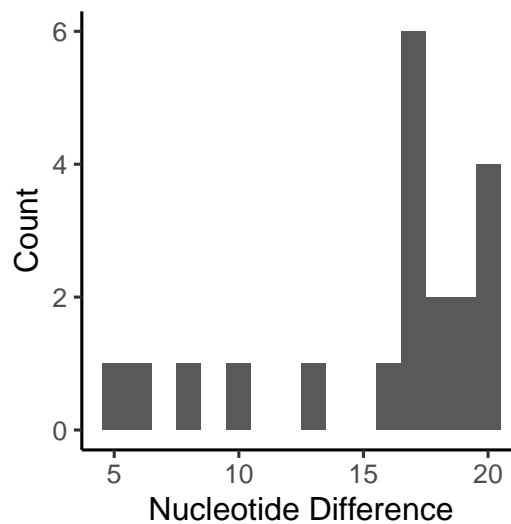
### IGHV4-59\*01\_07

302 sequences assigned  
No exact matches.



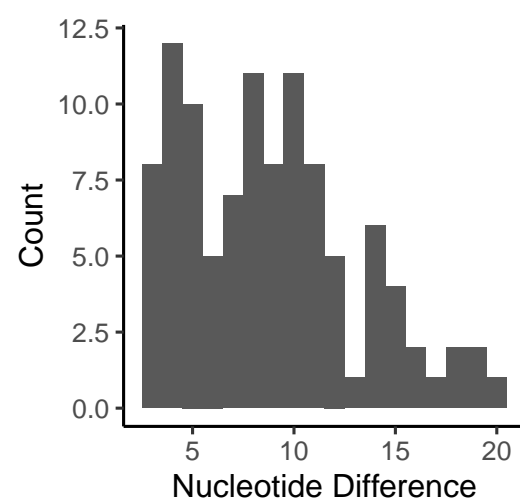
### IGHV4-61\*08

27 sequences assigned  
No exact matches.



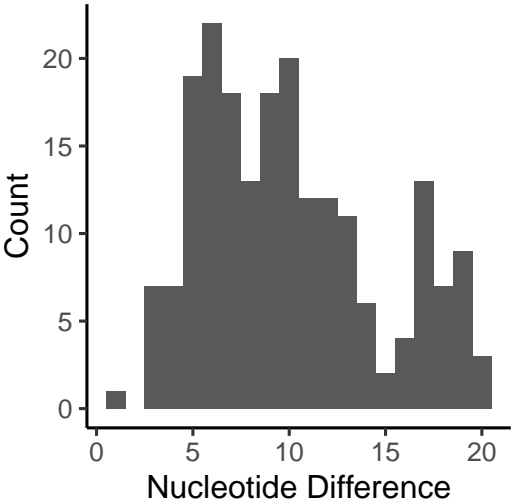
### IGHV5-51\*01\_03

119 sequences assigned  
No exact matches.



IGHV6-1\*01\_02

207 sequences assigned  
No exact matches.







Warning – no inferred sequences found.