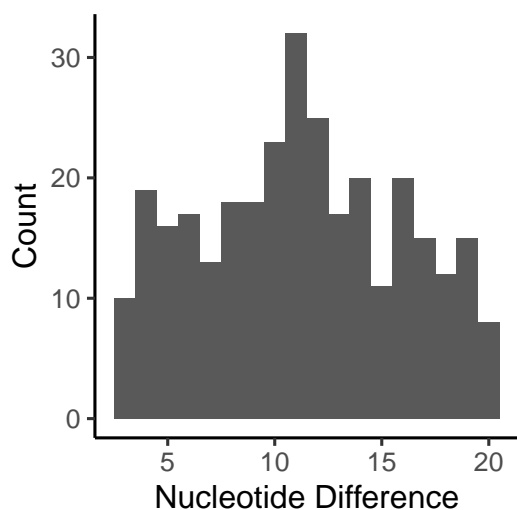


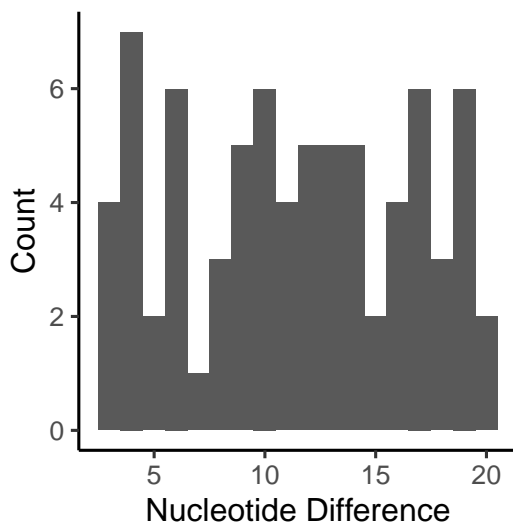
### IGHV1-2\*02

350 sequences assigned  
No exact matches.



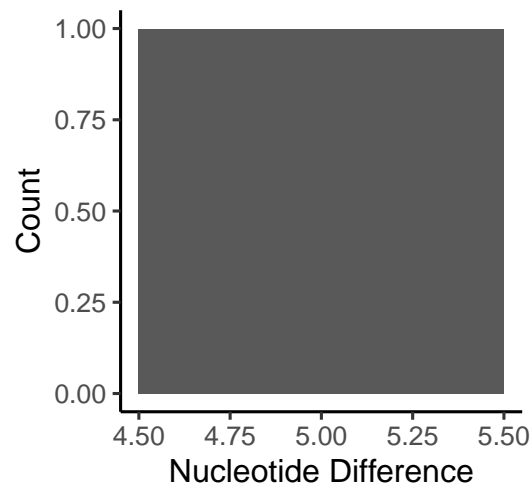
### IGHV1-18\*01

100 sequences assigned  
No exact matches.



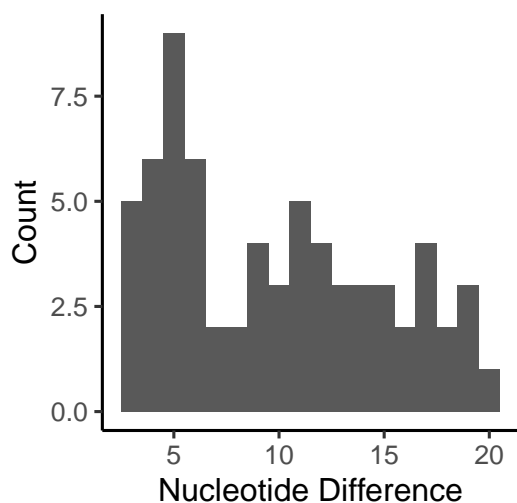
### IGHV1-45\*02

1 sequences assigned  
No exact matches.



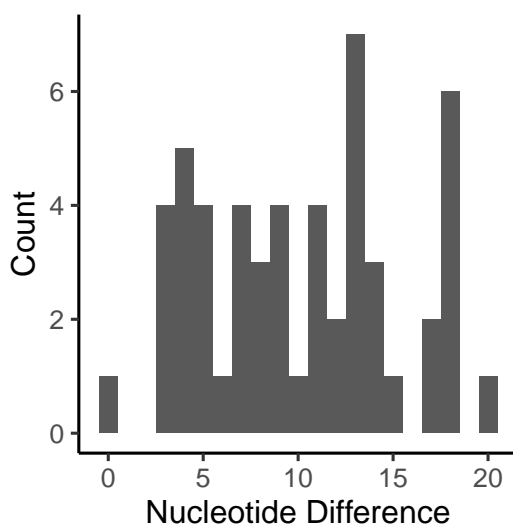
### IGHV1-3\*01\_05

78 sequences assigned  
No exact matches.



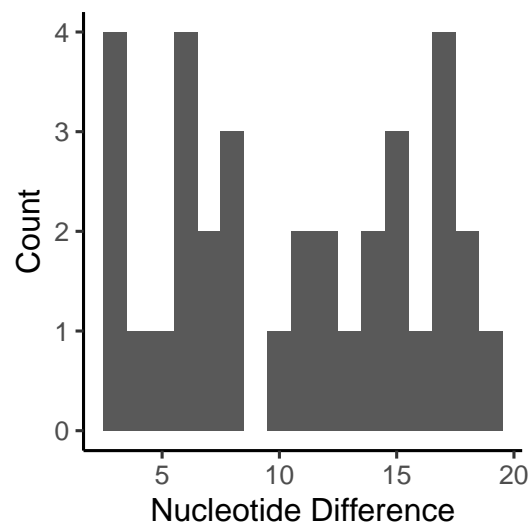
### IGHV1-18\*04

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



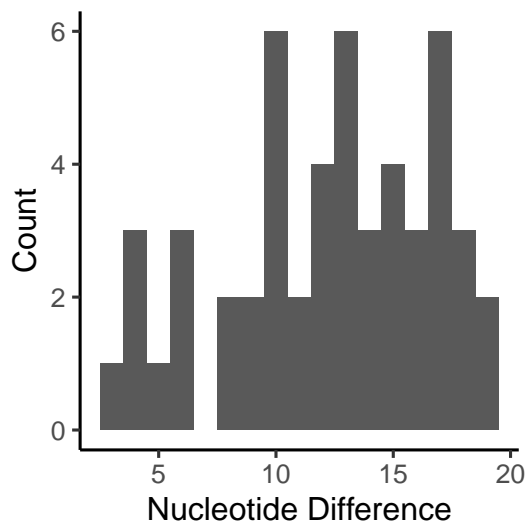
### IGHV1-46\*01

43 sequences assigned  
No exact matches.



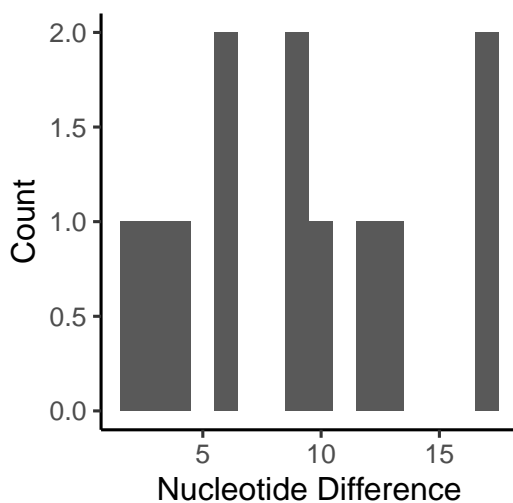
### IGHV1-8\*03

72 sequences assigned  
No exact matches.



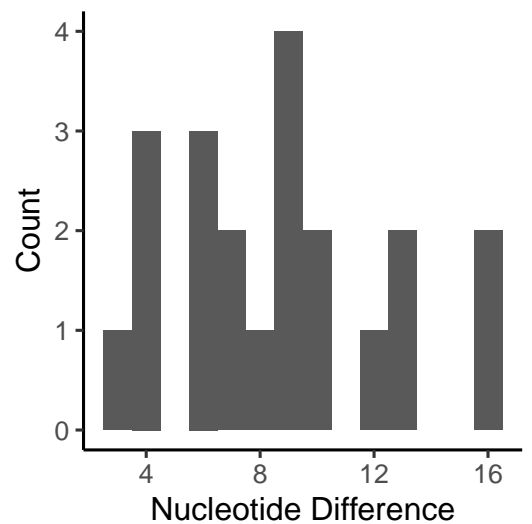
### IGHV1-24\*01

17 sequences assigned  
No exact matches.



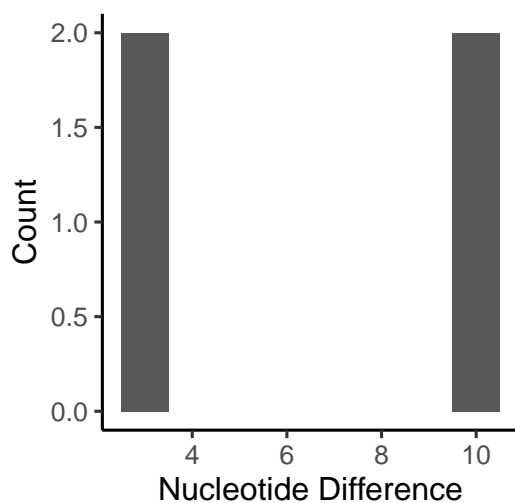
### IGHV1-46\*03

24 sequences assigned  
No exact matches.



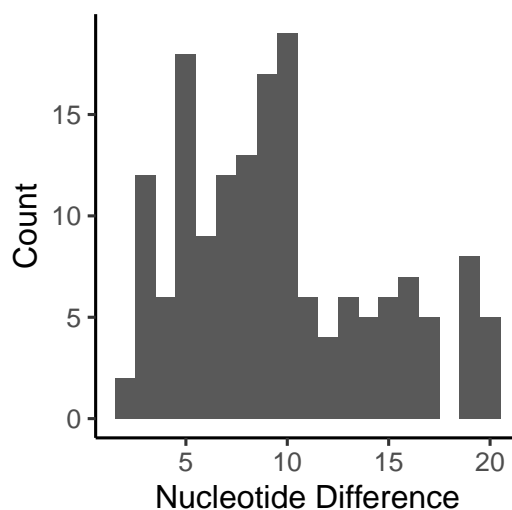
### IGHV1-58\*02

4 sequences assigned  
No exact matches.



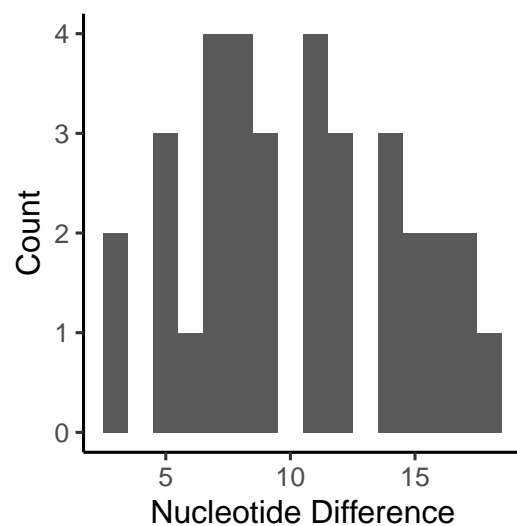
### IGHV2-5\*02

194 sequences assigned  
No exact matches.



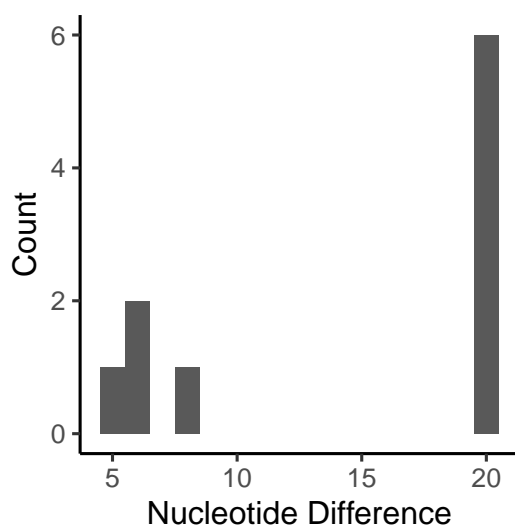
### IGHV2-70\*11\_15

37 sequences assigned  
No exact matches.



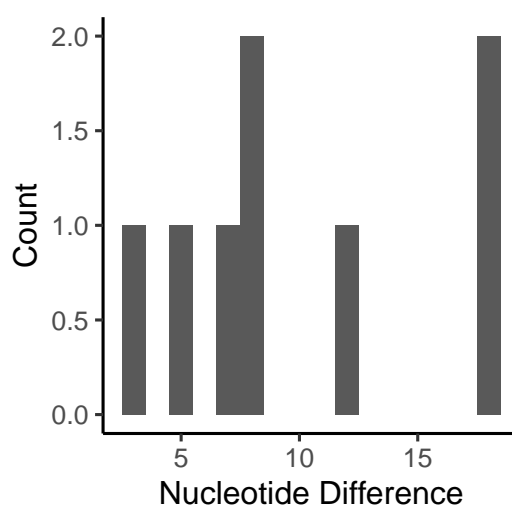
### IGHV1-58\*01\_03

13 sequences assigned  
No exact matches.



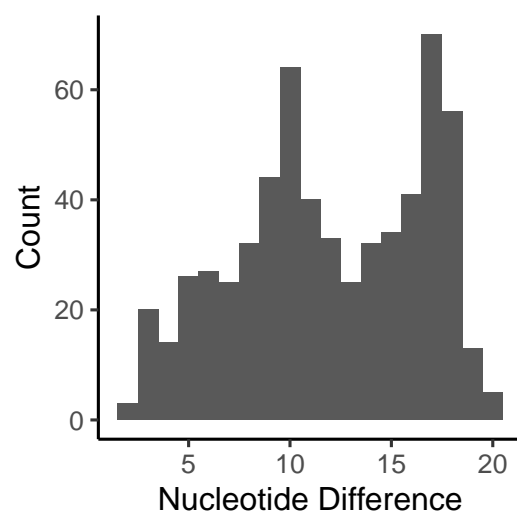
### IGHV2-26\*01

8 sequences assigned  
No exact matches.



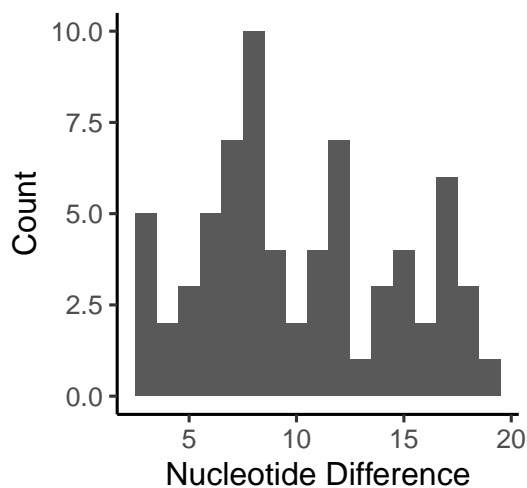
### IGHV3-7\*01

689 sequences assigned  
No exact matches.



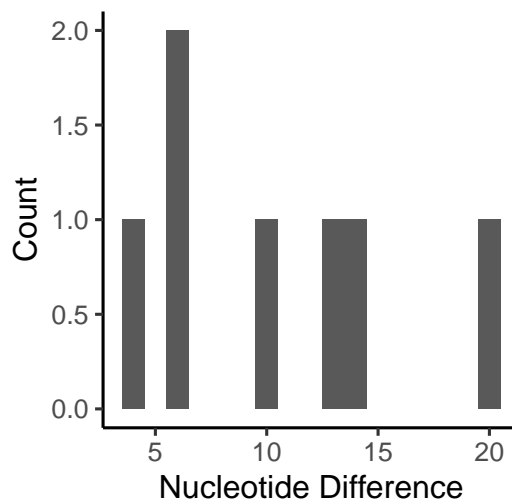
### IGHV2-5\*01

74 sequences assigned  
No exact matches.



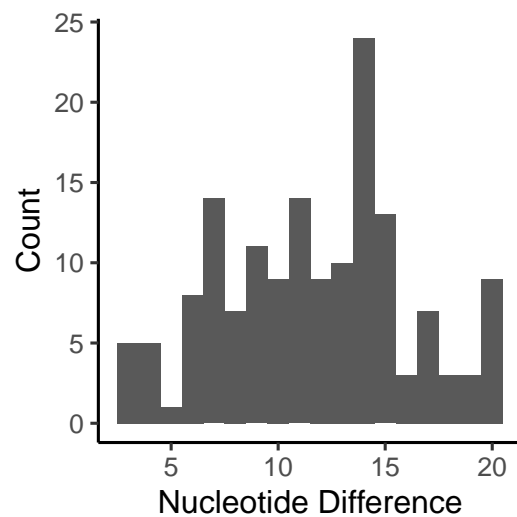
### IGHV2-70\*01

10 sequences assigned  
No exact matches.



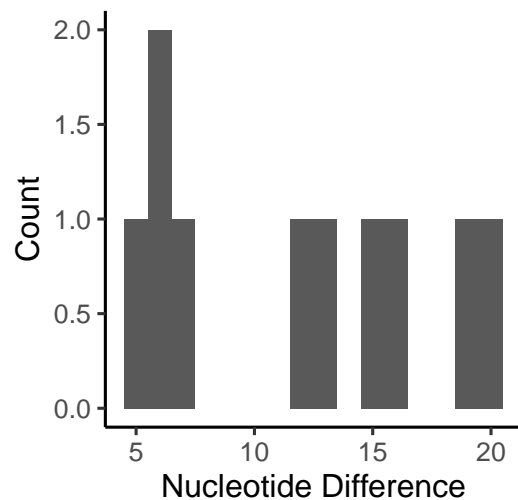
### IGHV3-7\*04

181 sequences assigned  
No exact matches.



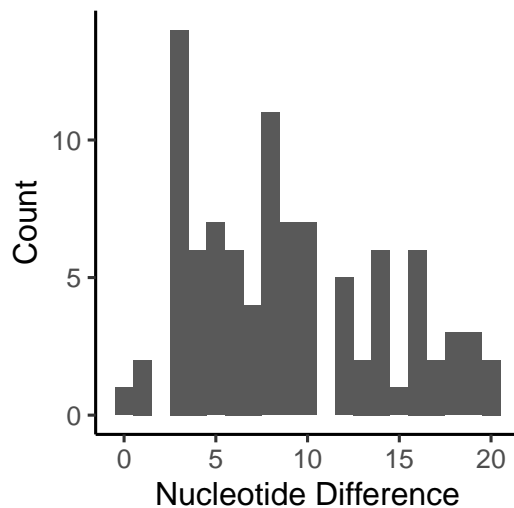
### IGHV3-9\*01

12 sequences assigned  
No exact matches.



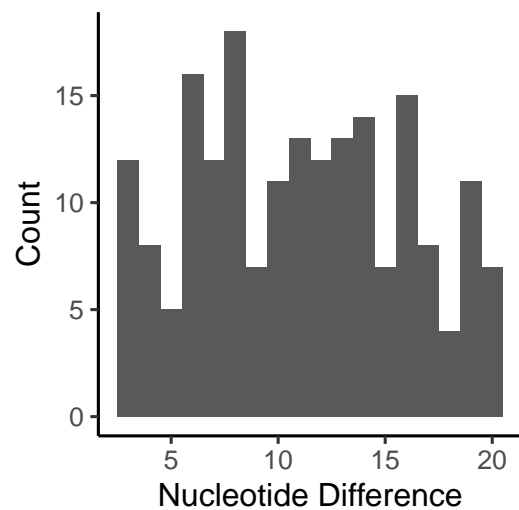
### IGHV3-11\*03\_05

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



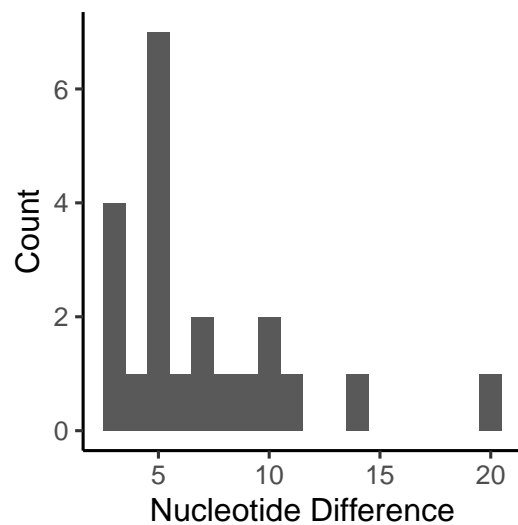
### IGHV3-15\*01\_02

238 sequences assigned  
No exact matches.



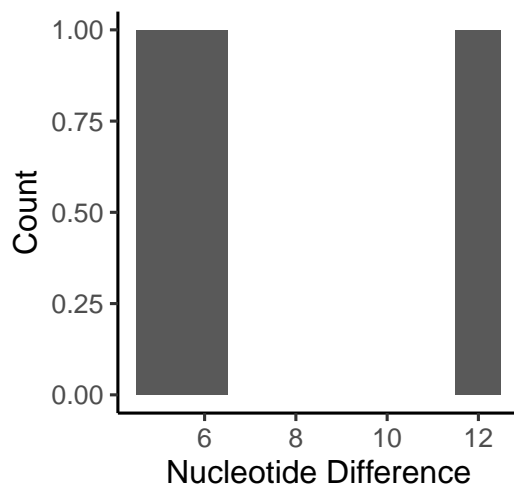
### IGHV3-9\*03

28 sequences assigned  
No exact matches.



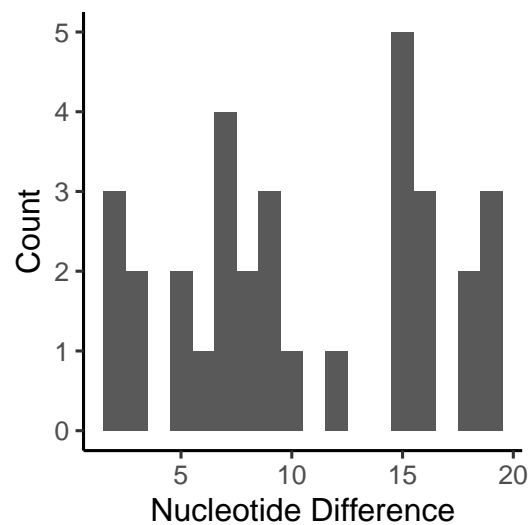
### IGHV3-13\*01

3 sequences assigned  
No exact matches.



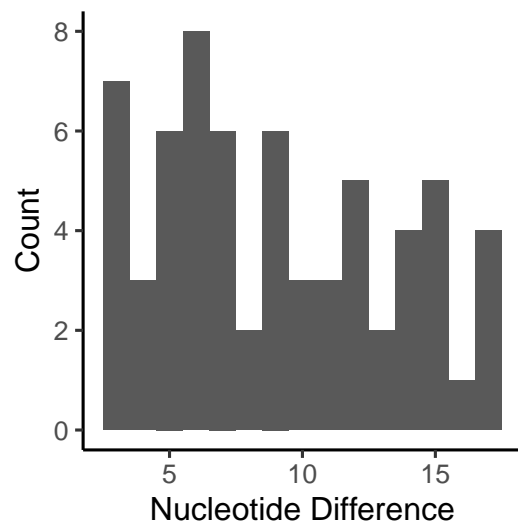
### IGHV3-20\*03\_04

40 sequences assigned  
No exact matches.



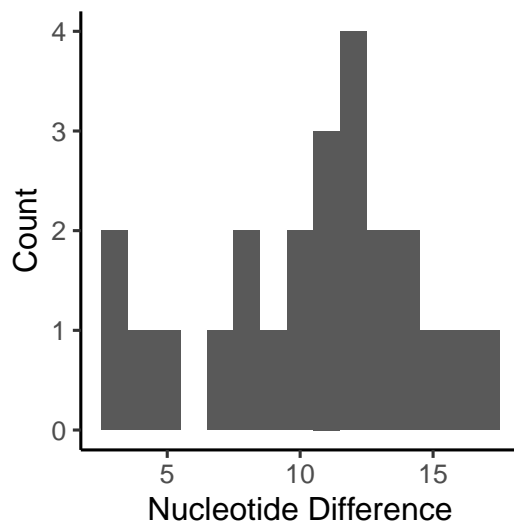
### IGHV3-11\*04

92 sequences assigned  
No exact matches.



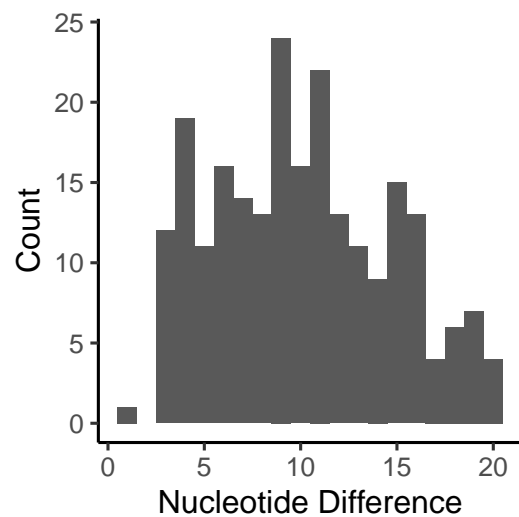
### IGHV3-13\*04

28 sequences assigned  
No exact matches.



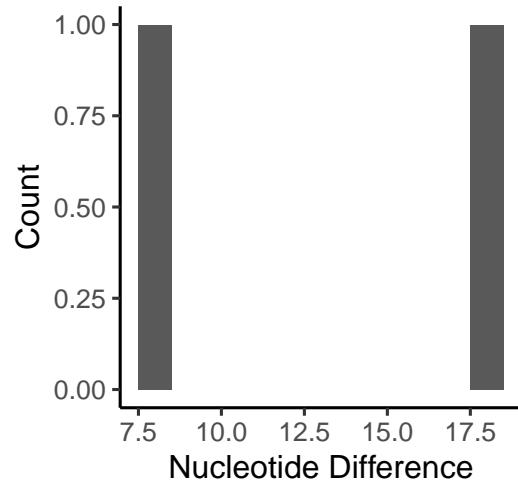
### IGHV3-21\*01\_02

290 sequences assigned  
No exact matches.



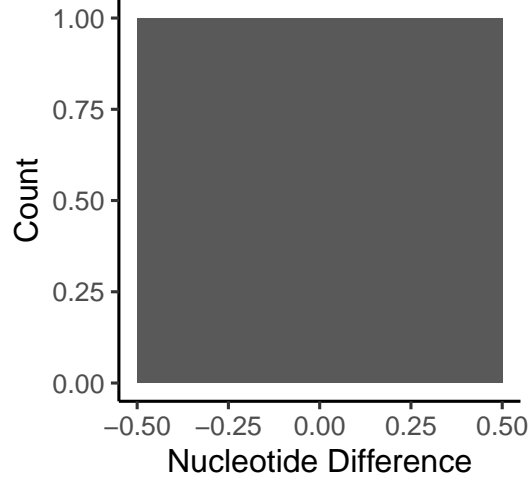
### IGHV3-30-3\*03

2 sequences assigned  
No exact matches.



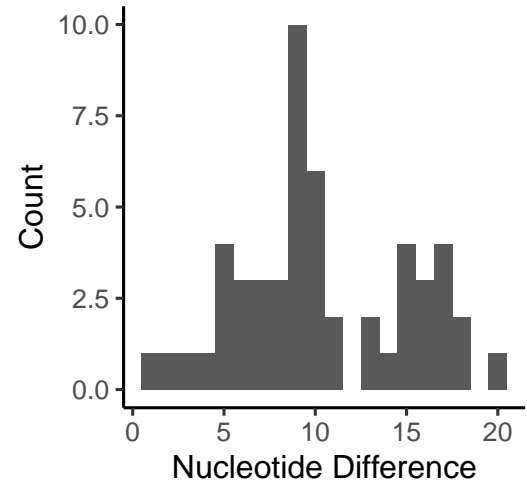
### IGHV3-47\*02

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



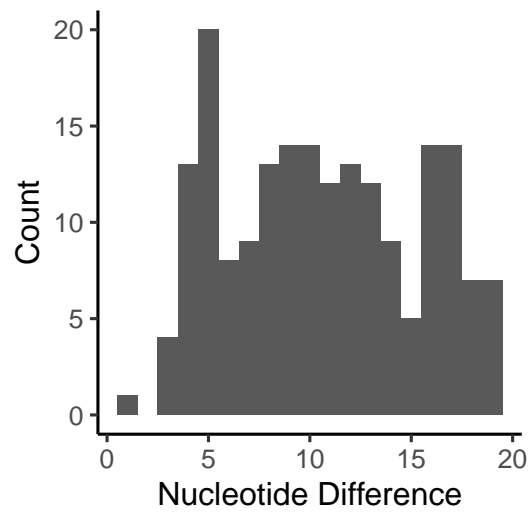
### IGHV3-49\*03\_05

67 sequences assigned  
No exact matches.



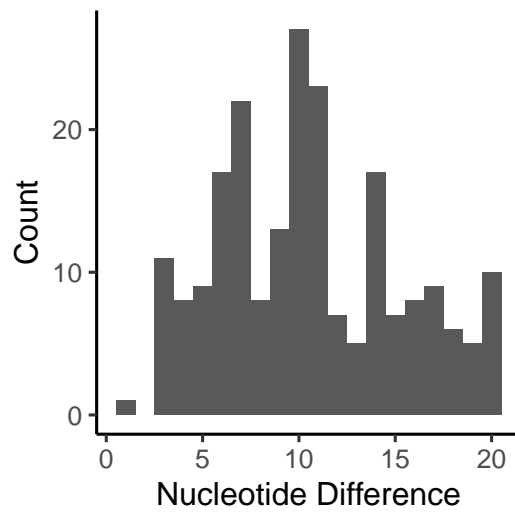
### IGHV3-33\*01

223 sequences assigned  
No exact matches.



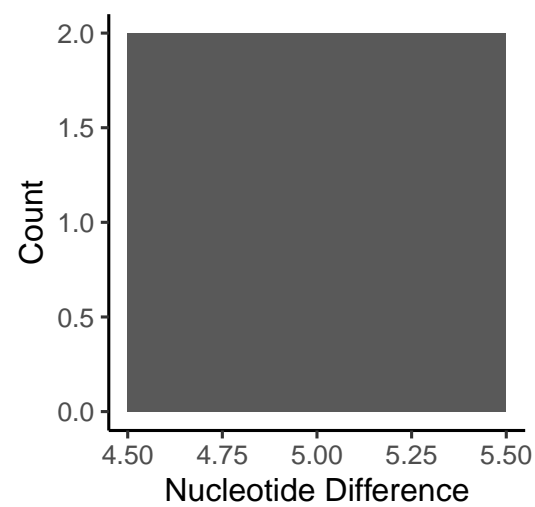
### IGHV3-48\*01

249 sequences assigned  
No exact matches.



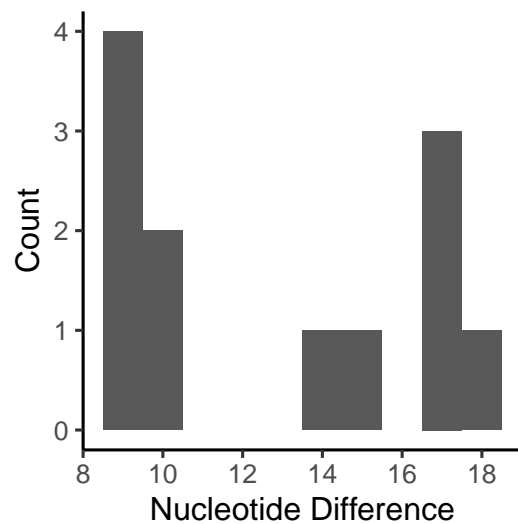
### IGHV3-52\*01\_03

2 sequences assigned  
No exact matches.



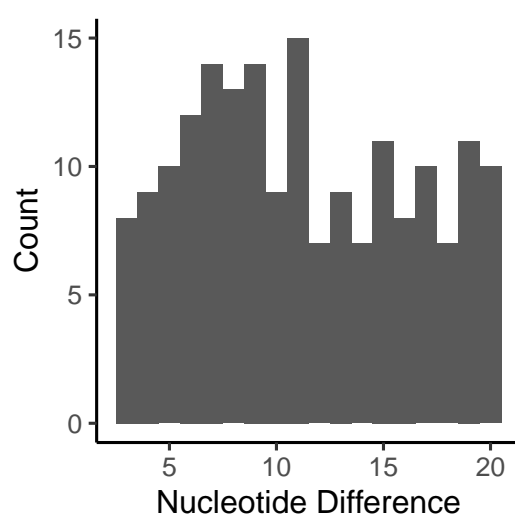
### IGHV3-43\*01

15 sequences assigned  
No exact matches.



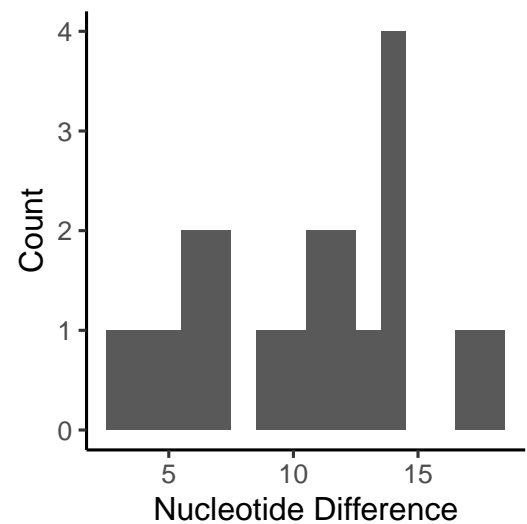
### IGHV3-48\*02

238 sequences assigned  
No exact matches.



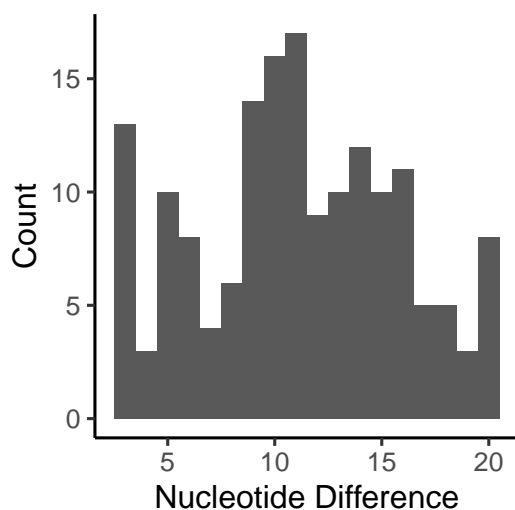
### IGHV3-53\*04

30 sequences assigned  
No exact matches.



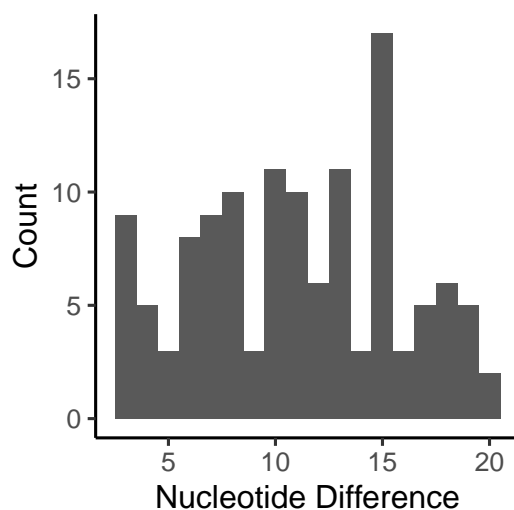
### IGHV3-53\*01\_02

179 sequences assigned  
No exact matches.



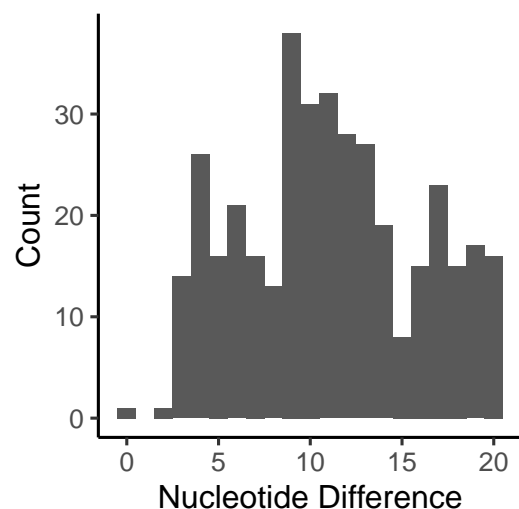
### IGHV3-66\*01

134 sequences assigned  
No exact matches.



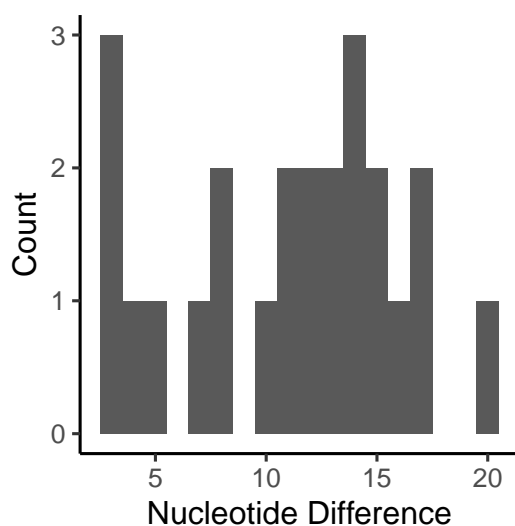
### IGHV3-74\*01\_02

429 sequences assigned  
1 (0.2%) exact matches, in which:  
1 unique CDR3  
1 unique J



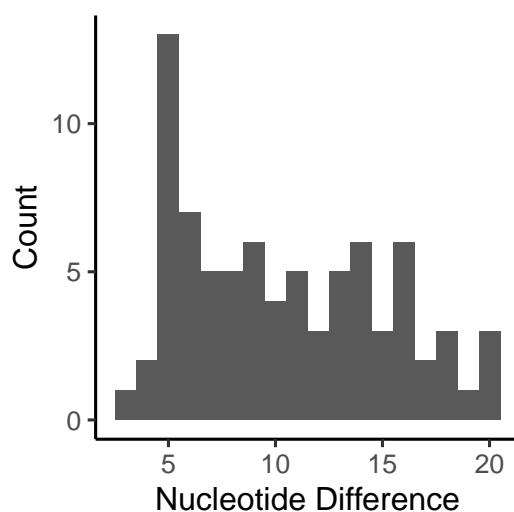
### IGHV3-64\*01

27 sequences assigned  
No exact matches.



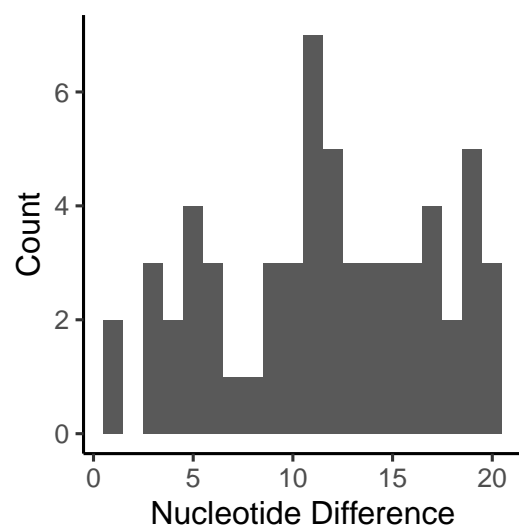
### IGHV3-72\*01

84 sequences assigned  
No exact matches.



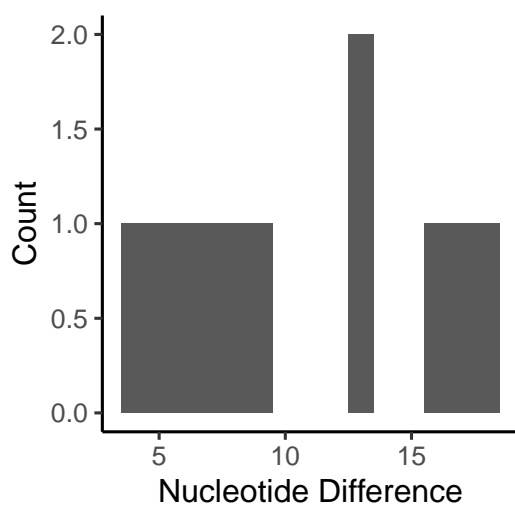
### IGHV3-64D\*06

77 sequences assigned  
No exact matches.



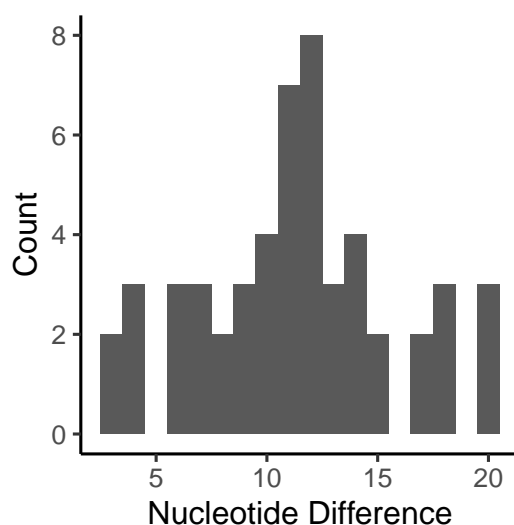
### IGHV3-64\*02\_07

11 sequences assigned  
No exact matches.



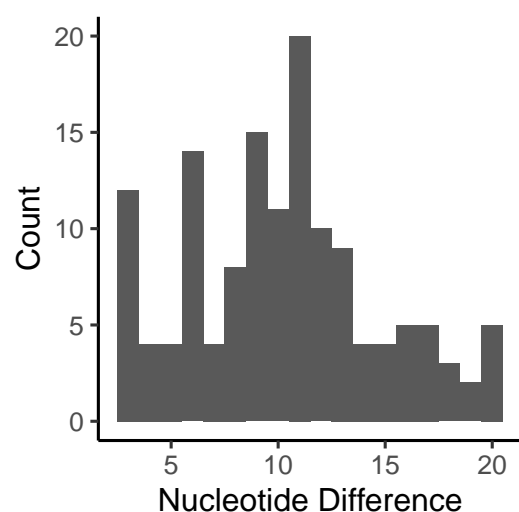
### IGHV3-73\*01\_02

65 sequences assigned  
No exact matches.



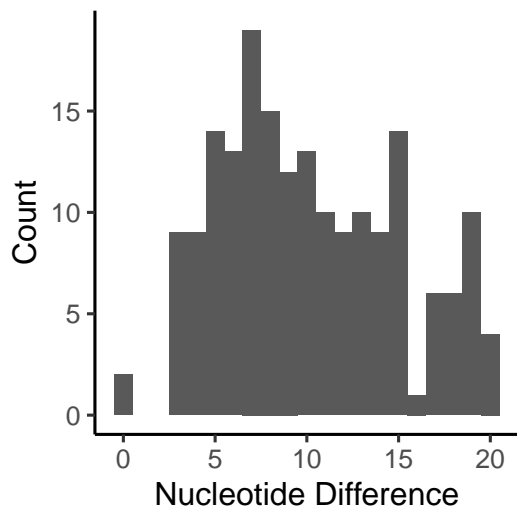
### IGHV4-4\*07

174 sequences assigned  
No exact matches.



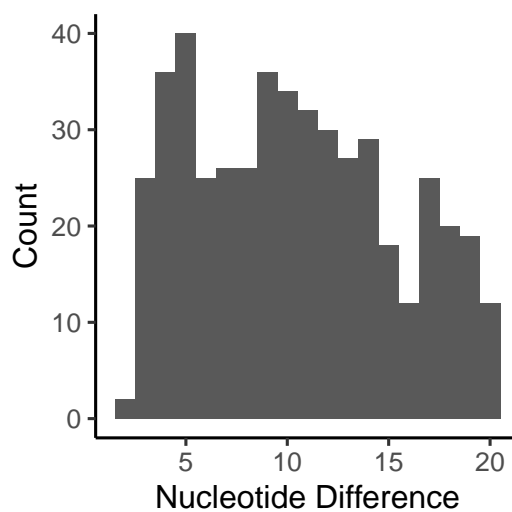
### IGHV4-31\*03\_04

214 sequences assigned  
2 (0.9%) exact matches, in which:  
1 unique CDR3  
1 unique J



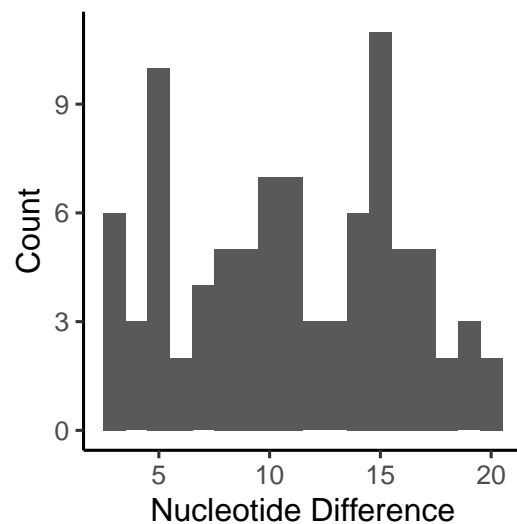
### IGHV4-39\*01\_05

623 sequences assigned  
No exact matches.



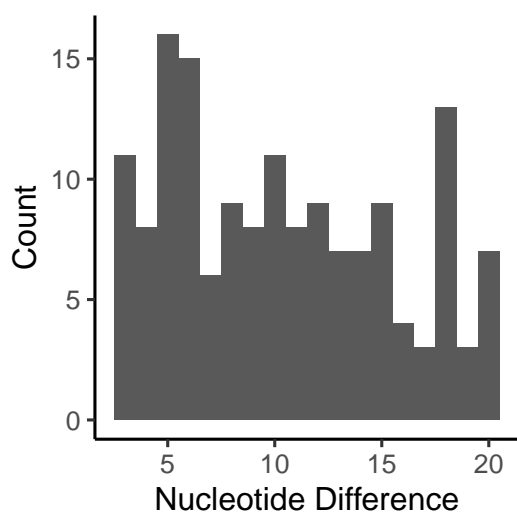
### IGHV4-61\*01

107 sequences assigned  
No exact matches.



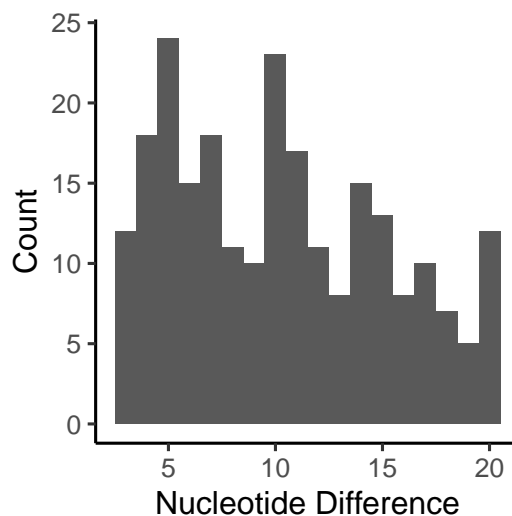
### IGHV4-34\*01\_02

208 sequences assigned  
No exact matches.



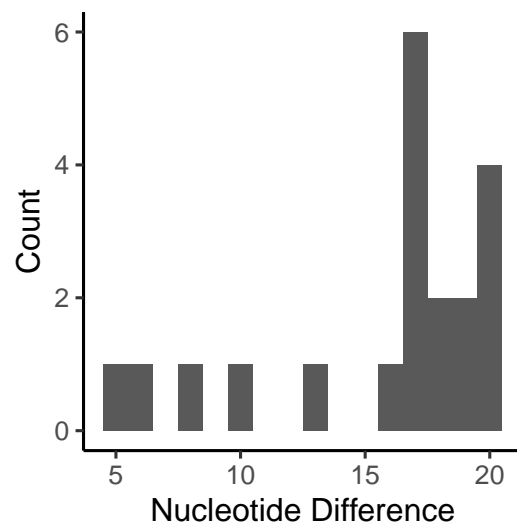
### IGHV4-59\*08

268 sequences assigned  
No exact matches.



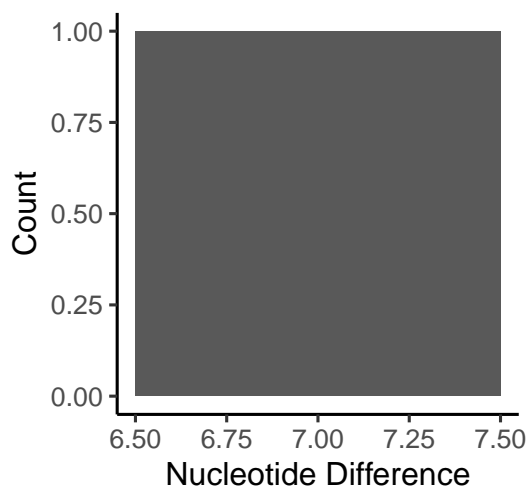
### IGHV4-61\*08

27 sequences assigned  
No exact matches.



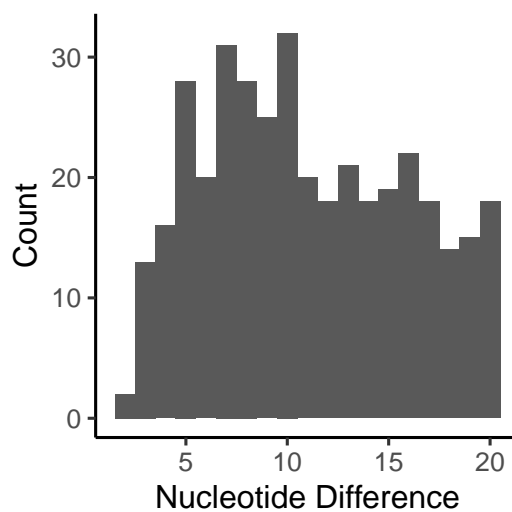
### IGHV4-38-2\*02

2 sequences assigned  
No exact matches.



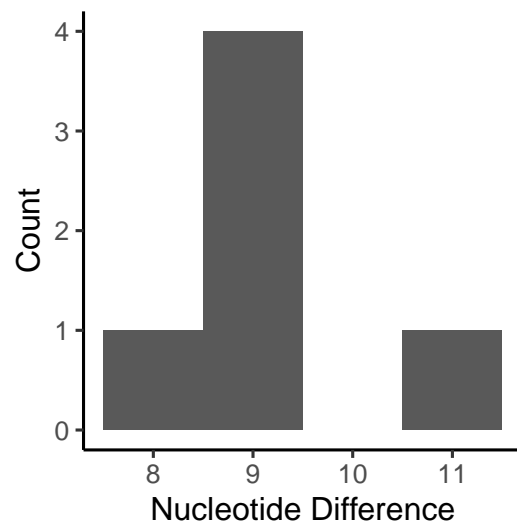
### IGHV4-59\*01\_07

471 sequences assigned  
No exact matches.



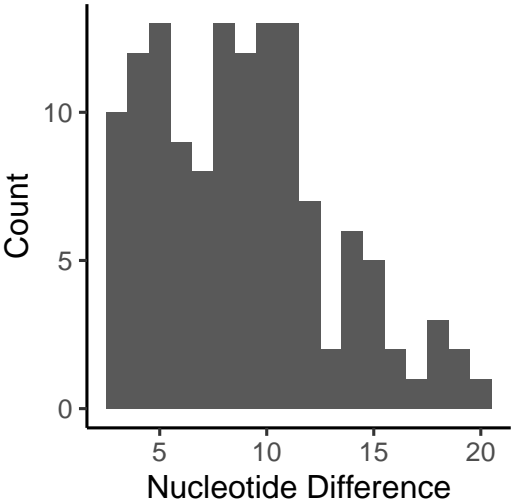
### IGHV5-10-1\*01\_03

10 sequences assigned  
No exact matches.



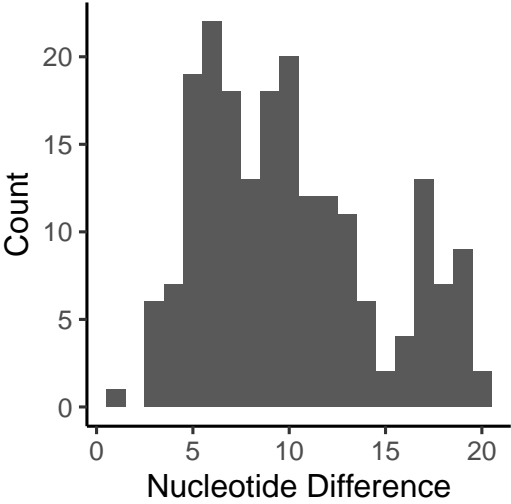
IGHV5-51\*01\_03

150 sequences assigned  
No exact matches.



IGHV6-1\*01\_02

205 sequences assigned  
No exact matches.







Warning – no inferred sequences found.

Novel sequence(s)IGHV4–59\*02\_G88AIGHV5–51\*07\_A128G are not listed in the genotype and will be ignored.

Warning – no inferred sequences found.

Novel sequence(s)IGHV4–59\*02\_G88AIGHV5–51\*07\_A128G are not listed in the genotype and will be ignored.

Warning – no inferred sequences found.

Novel sequence(s)IGHV4–59\*02\_G88A are not listed in the genotype and will be ignored.

Warning – no inferred sequences found.