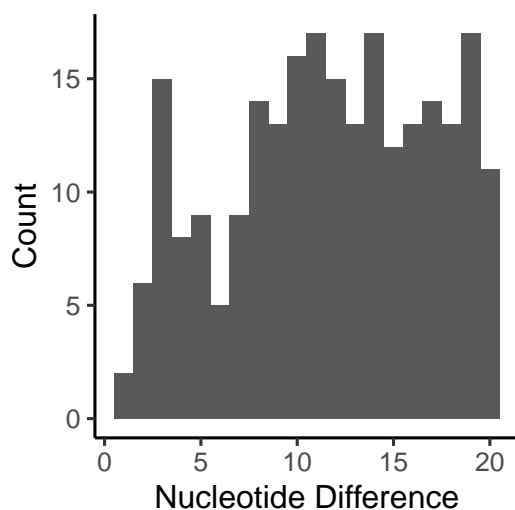


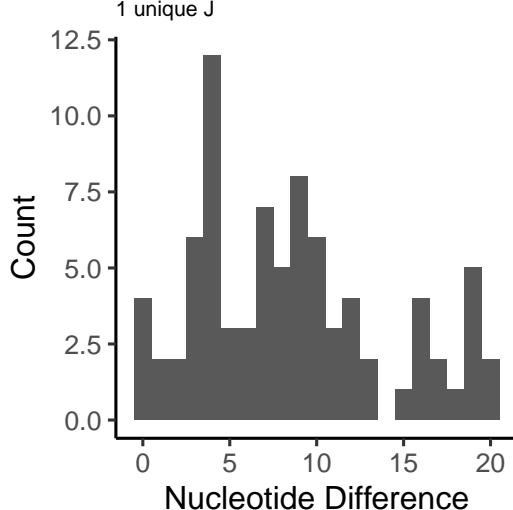
### IGHV1-2\*02

311 sequences assigned  
No exact matches.



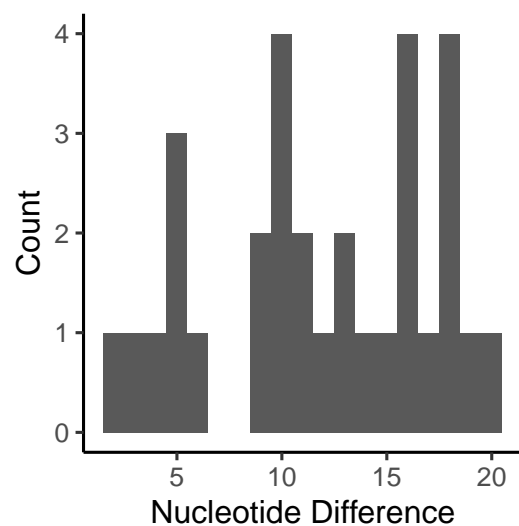
### IGHV1-8\*01

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



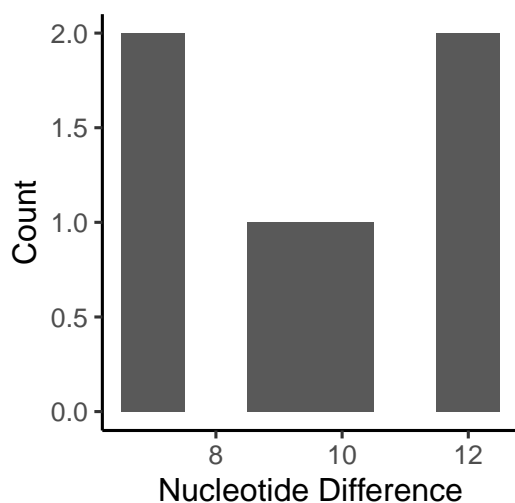
### IGHV1-24\*01

48 sequences assigned  
No exact matches.



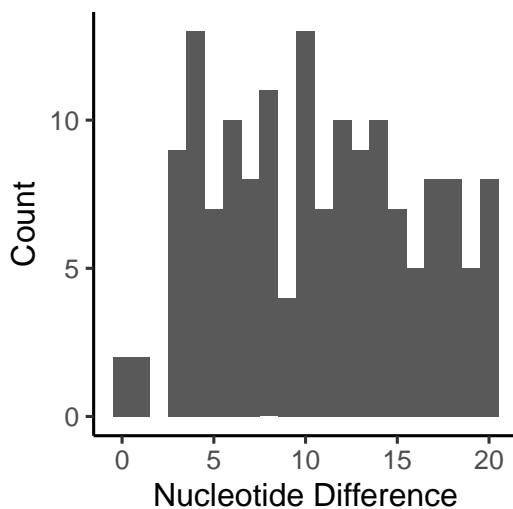
### IGHV1-3\*04

8 sequences assigned  
No exact matches.



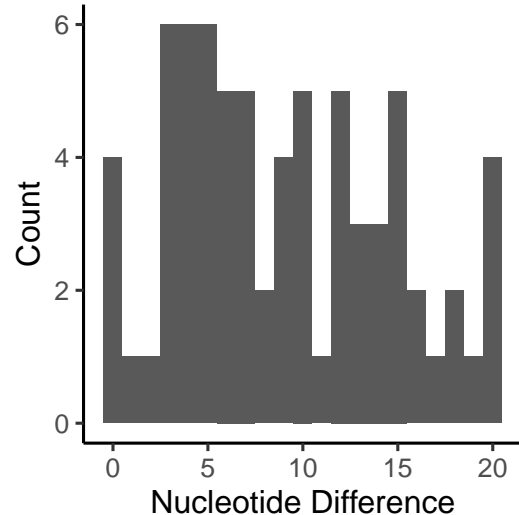
### IGHV1-18\*01

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



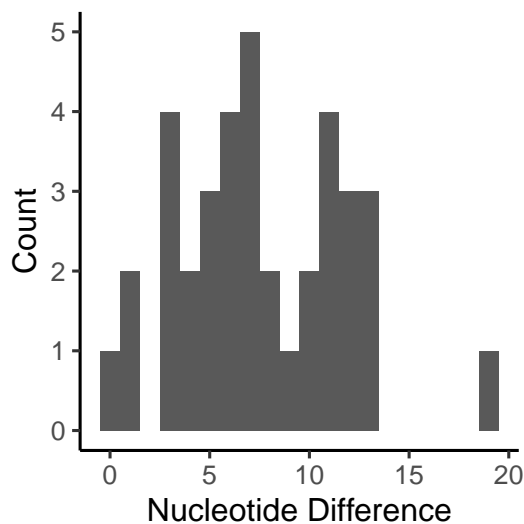
### IGHV1-46\*01

97 sequences assigned  
4 (4.1%) exact matches, in which:  
4 unique CDR3  
3 unique J



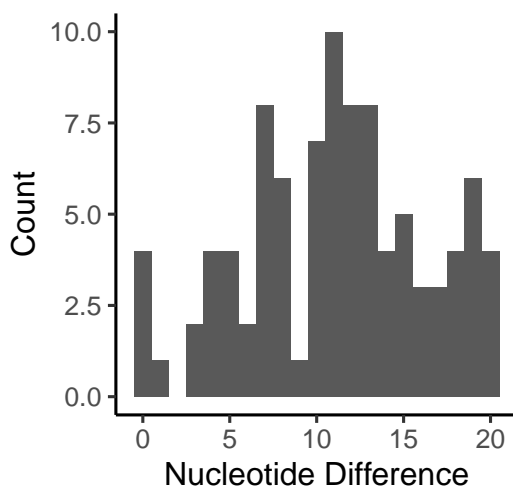
### IGHV1-3\*01\_05

53 sequences assigned  
1 (1.9%) exact matches, in which:  
1 unique CDR3  
1 unique J



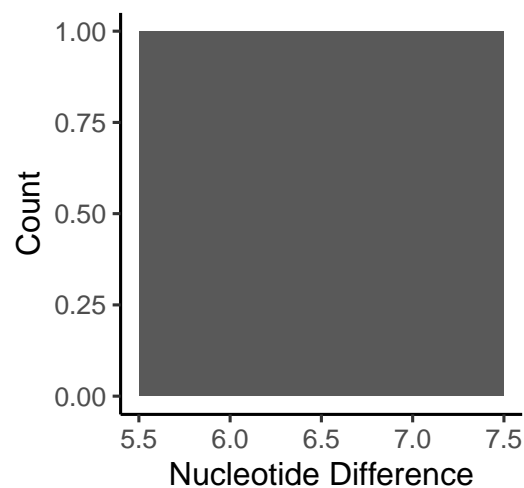
### IGHV1-18\*04

117 sequences assigned  
4 (3.4%) exact matches, in which:  
4 unique CDR3  
2 unique J



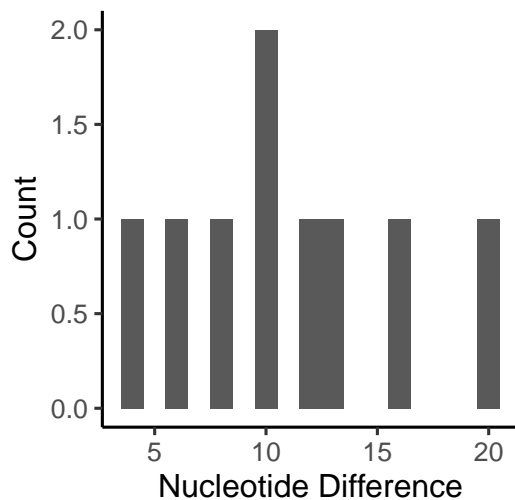
### IGHV1-58\*02

5 sequences assigned  
No exact matches.



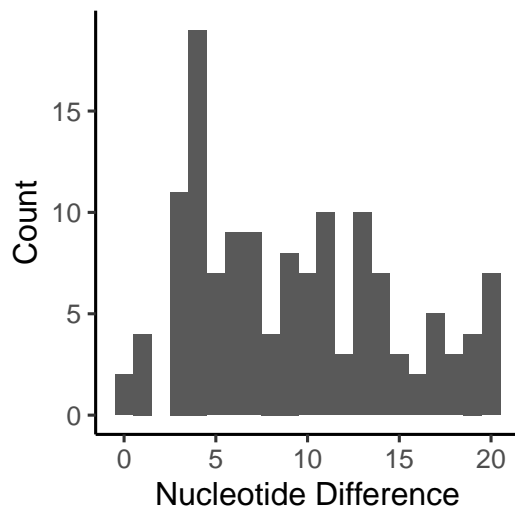
### IGHV1-58\*01\_03

13 sequences assigned  
No exact matches.



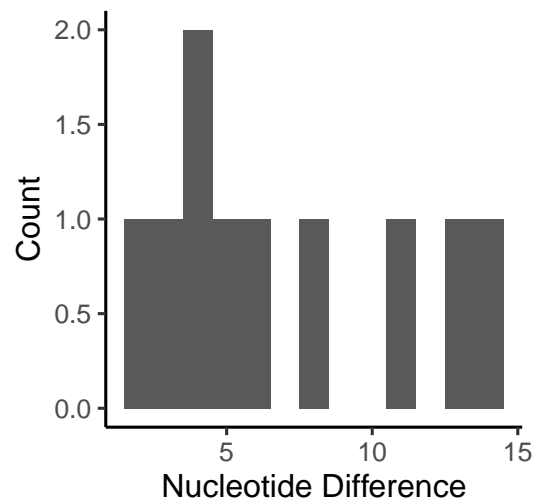
### IGHV2-5\*01

146 sequences assigned  
2 (1.4%) exact matches, in which:  
2 unique CDR3  
2 unique J



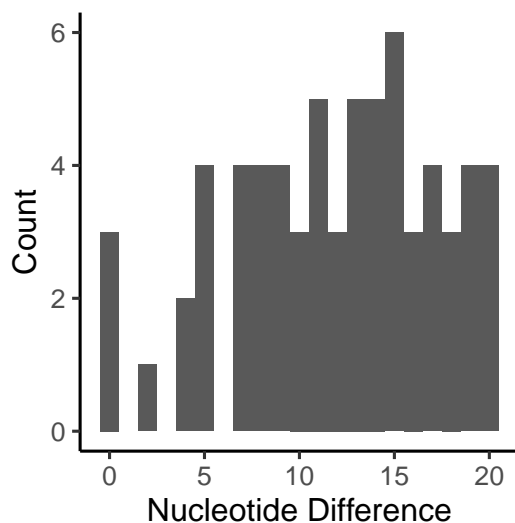
### IGHV2-70\*01

13 sequences assigned  
No exact matches.



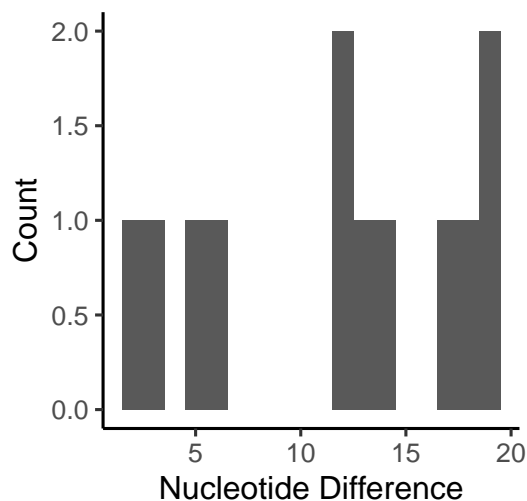
### IGHV1-69\*01\_12\_13

118 sequences assigned  
3 (2.5%) exact matches, in which:  
3 unique CDR3  
3 unique J



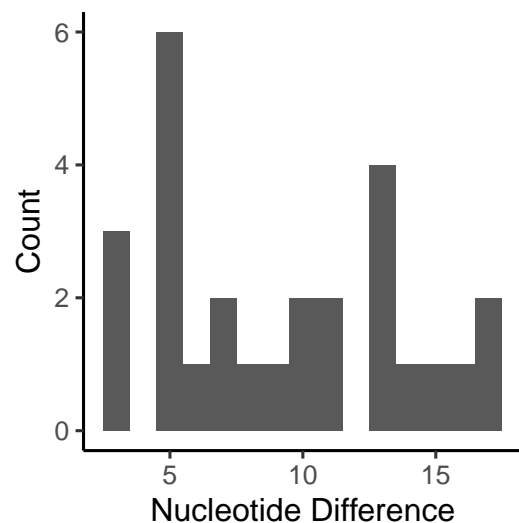
### IGHV2-26\*01

16 sequences assigned  
No exact matches.



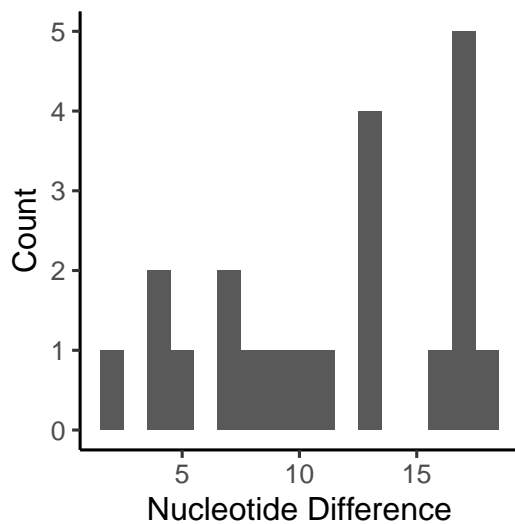
### IGHV2-70\*11\_15

28 sequences assigned  
No exact matches.



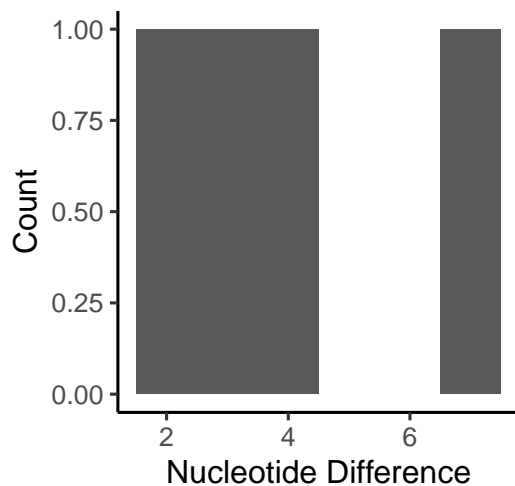
### IGHV1-69\*04\_09

29 sequences assigned  
No exact matches.



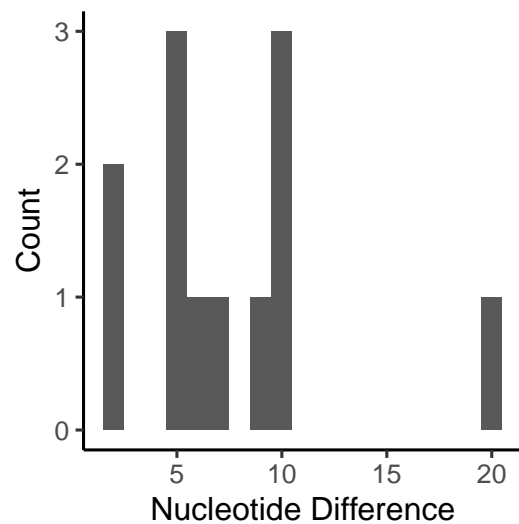
### IGHV2-26\*04

4 sequences assigned  
No exact matches.



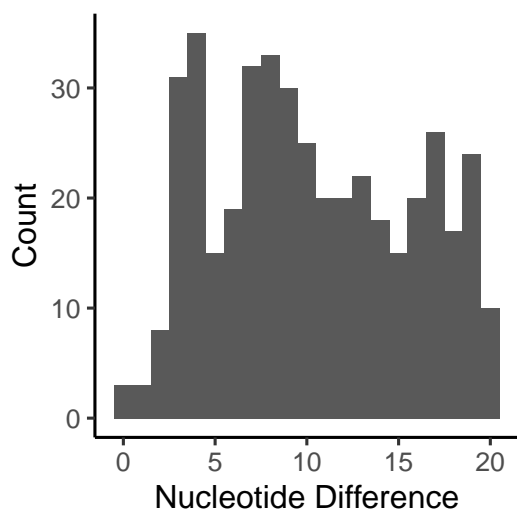
### IGHV2-70\*16\_17

12 sequences assigned  
No exact matches.



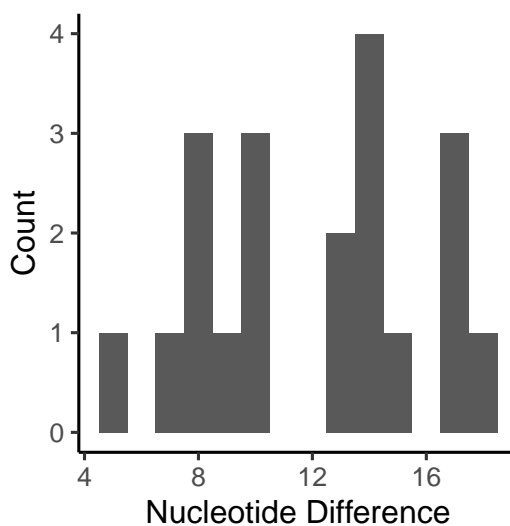
### IGHV3-7\*01

496 sequences assigned  
3 (0.6%) exact matches, in which:  
1 unique CDR3  
1 unique J



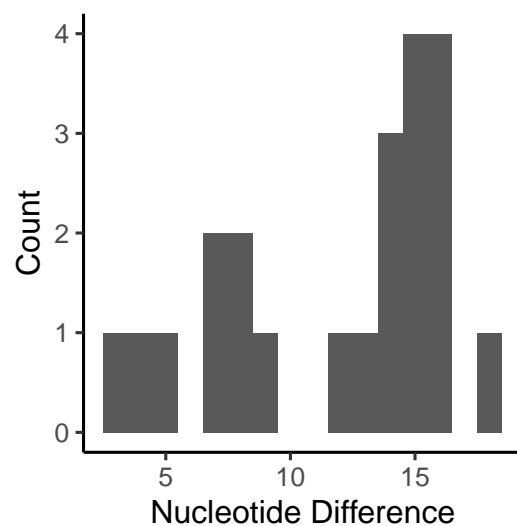
### IGHV3-11\*06

24 sequences assigned  
No exact matches.



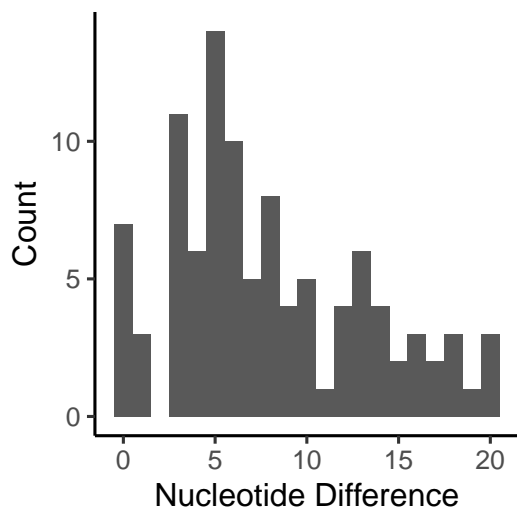
### IGHV3-13\*04

27 sequences assigned  
No exact matches.



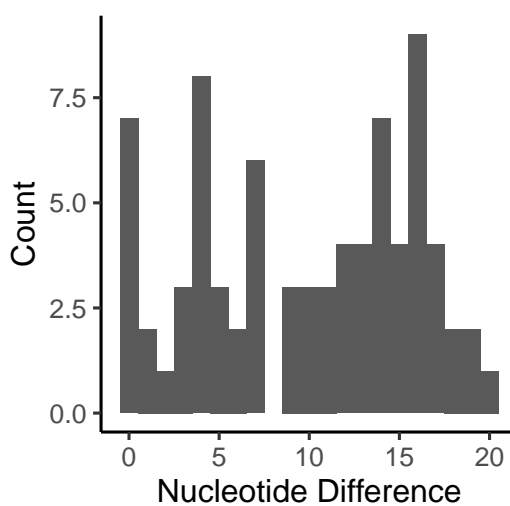
### IGHV3-9\*01

113 sequences assigned  
7 (6.2%) exact matches, in which:  
4 unique CDR3  
4 unique J



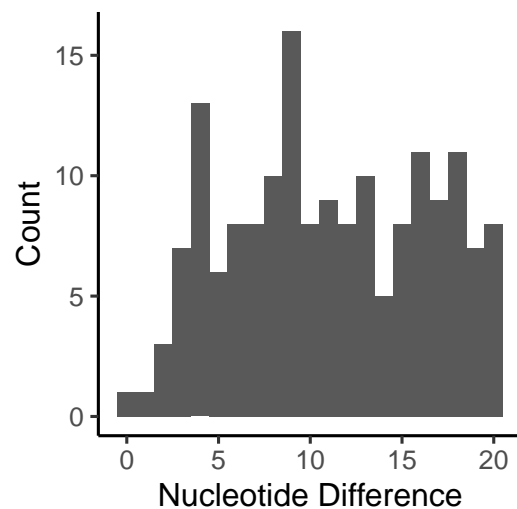
### IGHV3-11\*03\_05

93 sequences assigned  
7 (7.5%) exact matches, in which:  
4 unique CDR3  
2 unique J



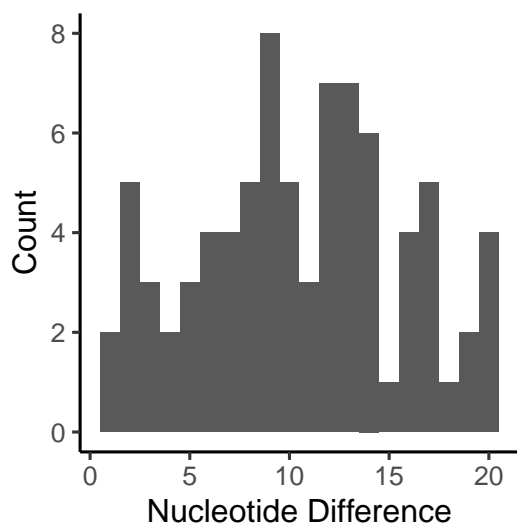
### IGHV3-15\*01\_02

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



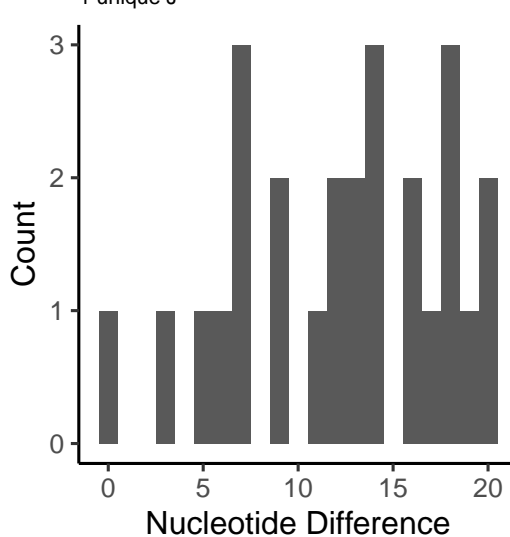
### IGHV3-11\*01

97 sequences assigned  
No exact matches.



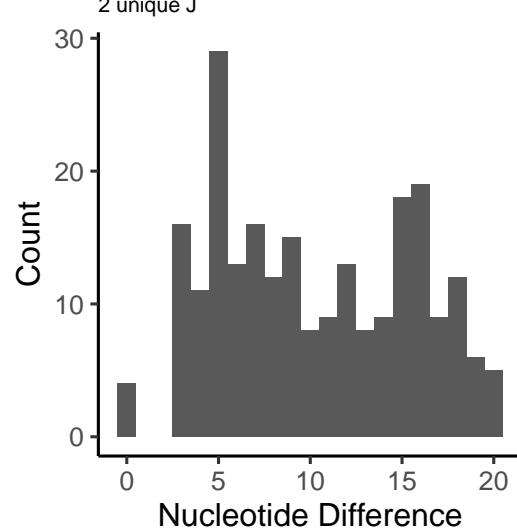
### IGHV3-13\*01

30 sequences assigned  
1 (3.3%) exact matches, in which:  
1 unique CDR3  
1 unique J



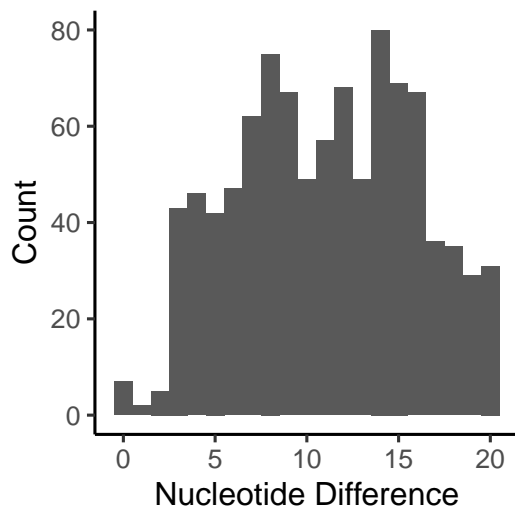
### IGHV3-21\*01\_02

270 sequences assigned  
4 (1.5%) exact matches, in which:  
3 unique CDR3  
2 unique J



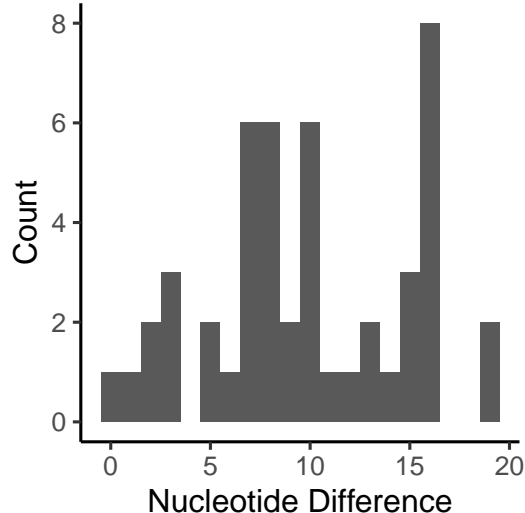
### IGHV3-23\*01\_04

1177 sequences assigned  
7 (0.6%) exact matches, in which:  
5 unique CDR3  
2 unique J



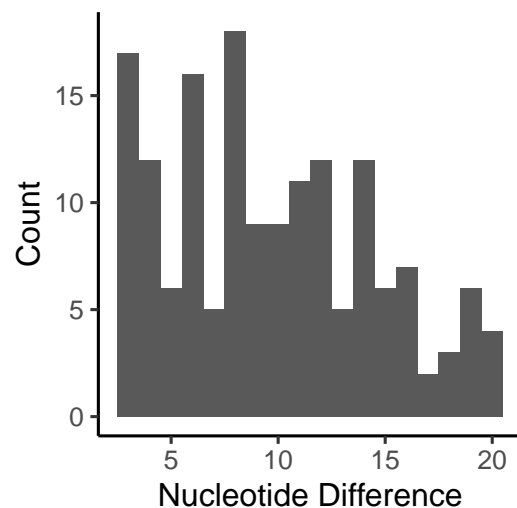
### IGHV3-33\*01

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



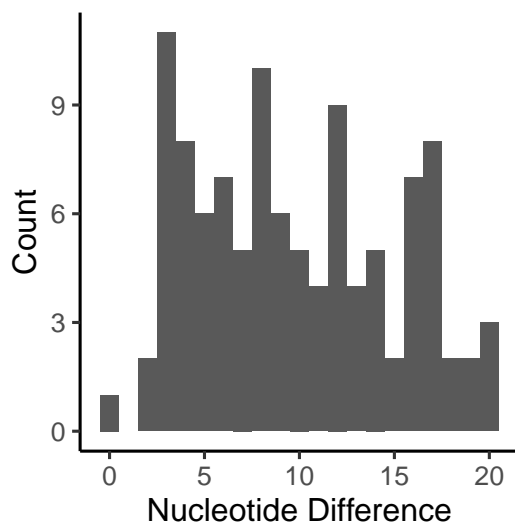
### IGHV3-48\*02

192 sequences assigned  
No exact matches.



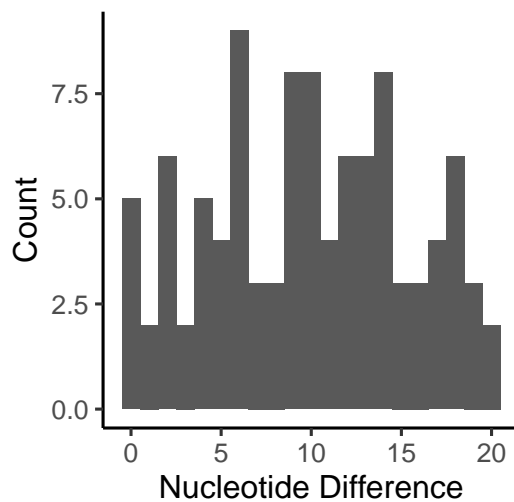
### IGHV3-30-3\*01

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



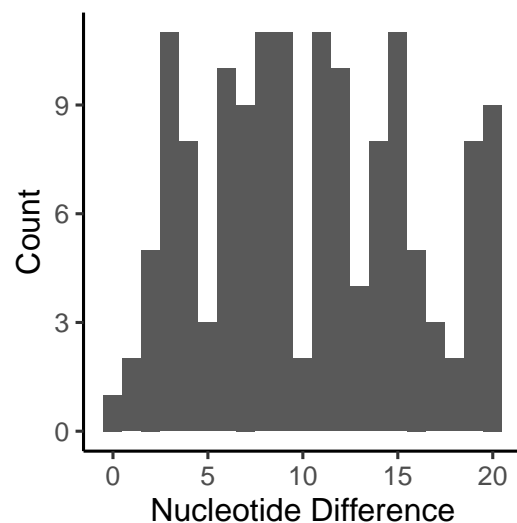
### IGHV3-33\*08

117 sequences assigned  
5 (4.3%) exact matches, in which:  
2 unique CDR3  
1 unique J



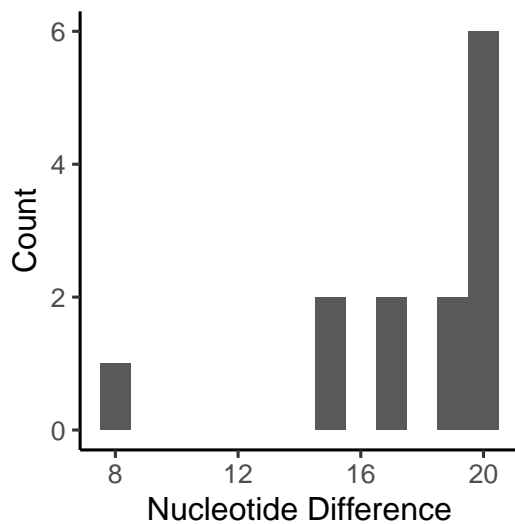
### IGHV3-48\*03

177 sequences assigned  
1 (0.6%) exact matches, in which:  
1 unique CDR3  
1 unique J



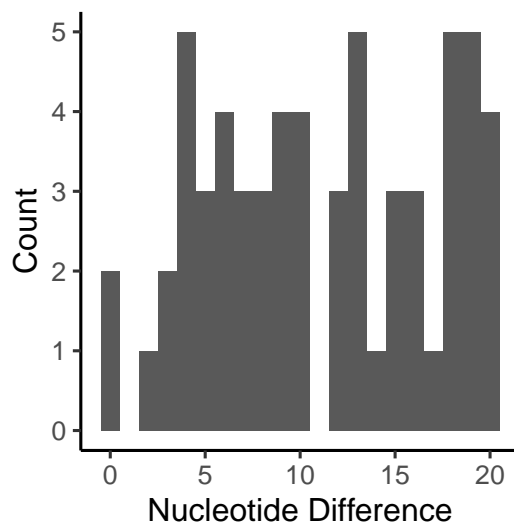
### IGHV3-30\*04

21 sequences assigned  
No exact matches.



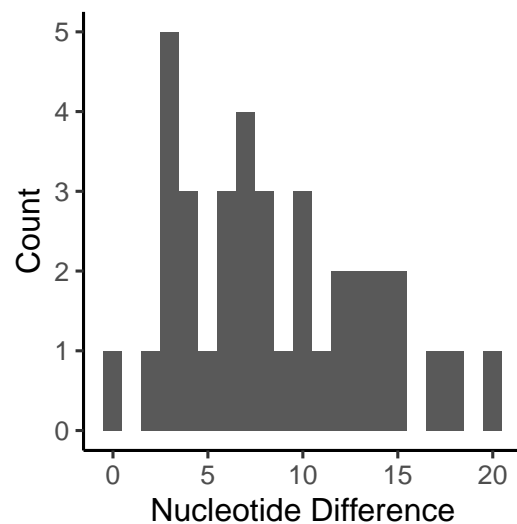
### IGHV3-43\*02

81 sequences assigned  
2 (2.5%) exact matches, in which:  
1 unique CDR3  
1 unique J



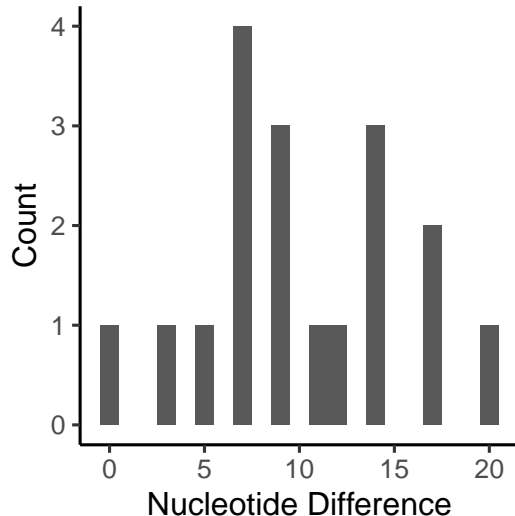
### IGHV3-49\*04

52 sequences assigned  
1 (1.9%) exact matches, in which:  
1 unique CDR3  
1 unique J



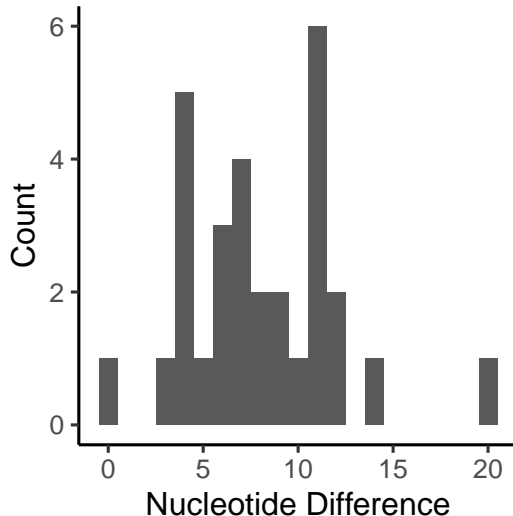
### IGHV3-49\*03\_05

24 sequences assigned  
1 (4.2%) exact matches, in which:  
1 unique CDR3  
1 unique J



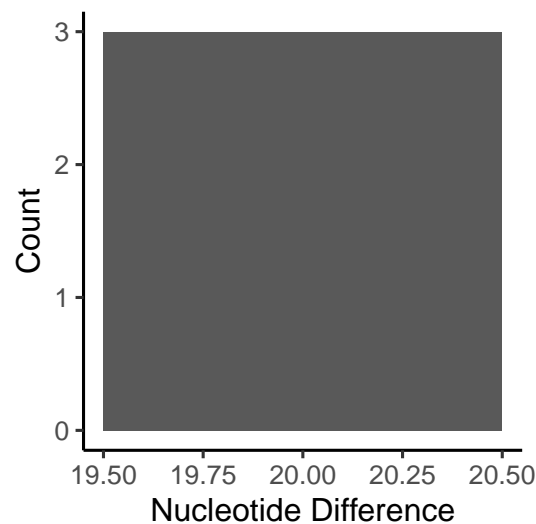
### IGHV3-64\*01

30 sequences assigned  
1 (3.3%) exact matches, in which:  
1 unique CDR3  
1 unique J



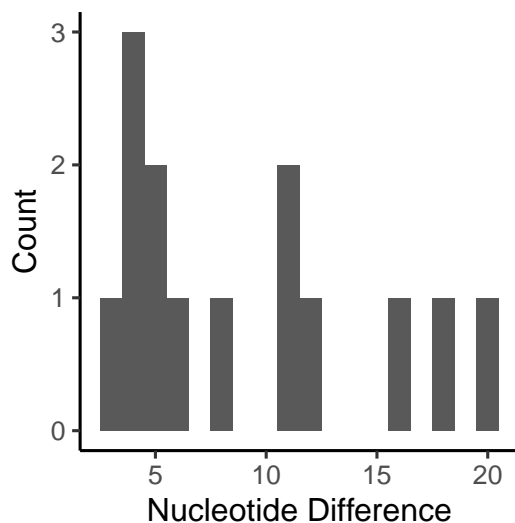
### IGHV3-69-1\*01

10 sequences assigned  
No exact matches.



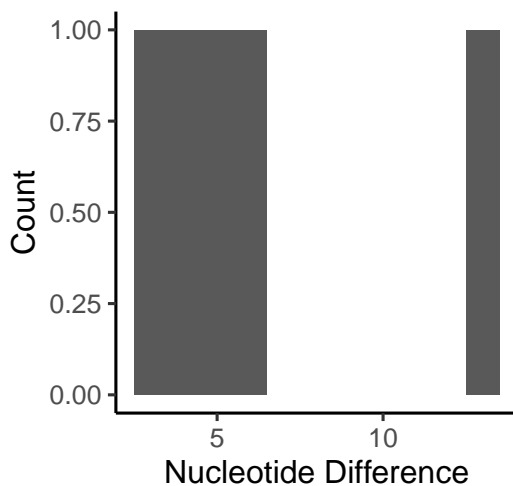
### IGHV3-53\*04

19 sequences assigned  
No exact matches.



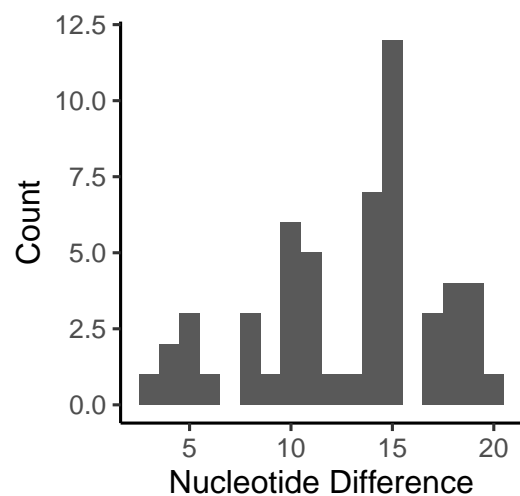
### IGHV3-64\*02\_07

9 sequences assigned  
No exact matches.



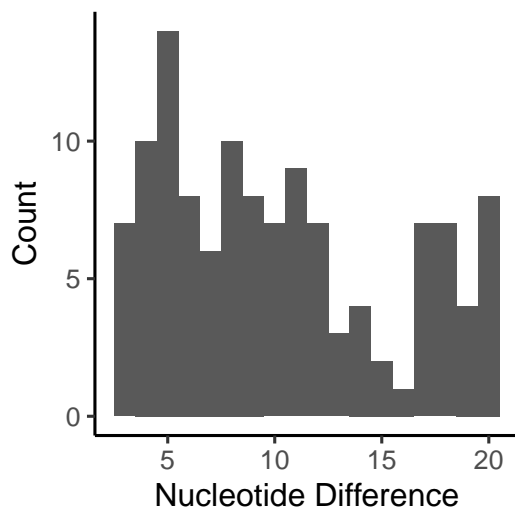
### IGHV3-72\*01

61 sequences assigned  
No exact matches.



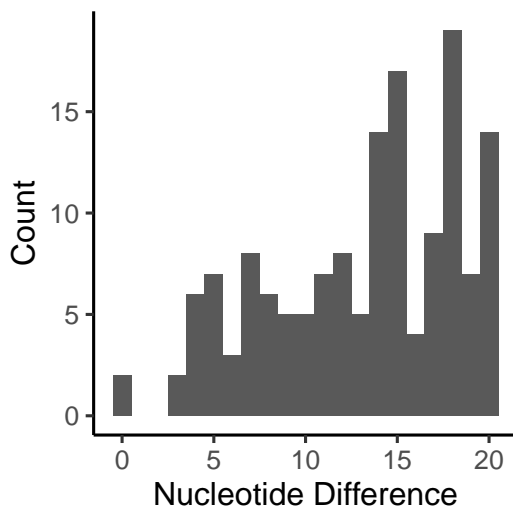
### IGHV3-53\*01\_02

145 sequences assigned  
No exact matches.



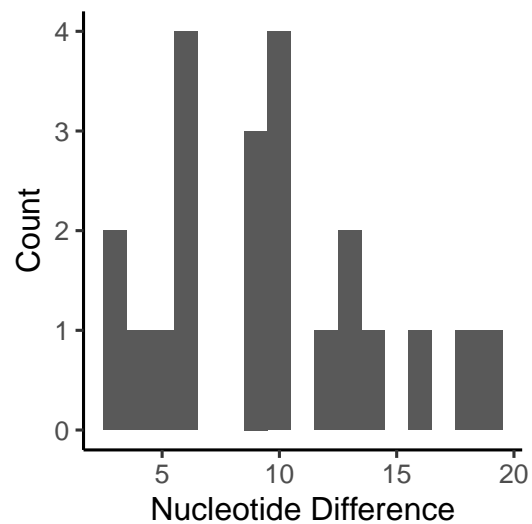
### IGHV3-66\*01

182 sequences assigned  
2 (1.1%) exact matches, in which:  
2 unique CDR3  
1 unique J



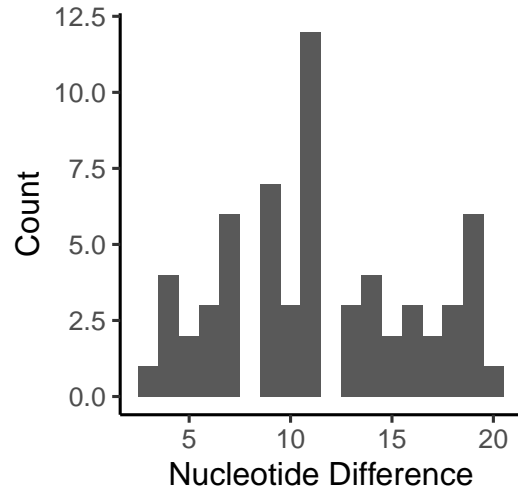
### IGHV3-73\*01\_02

28 sequences assigned  
No exact matches.



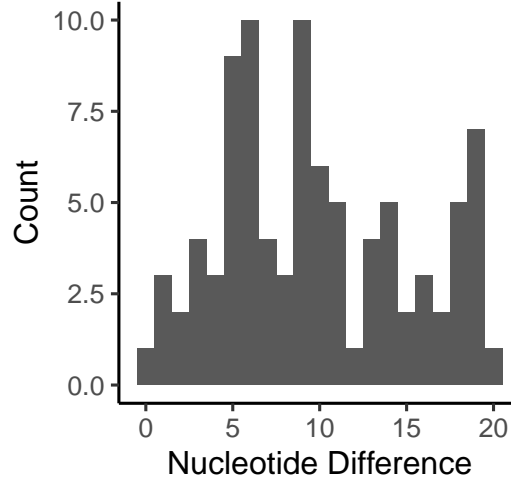
### IGHV3-74\*03

88 sequences assigned  
No exact matches.



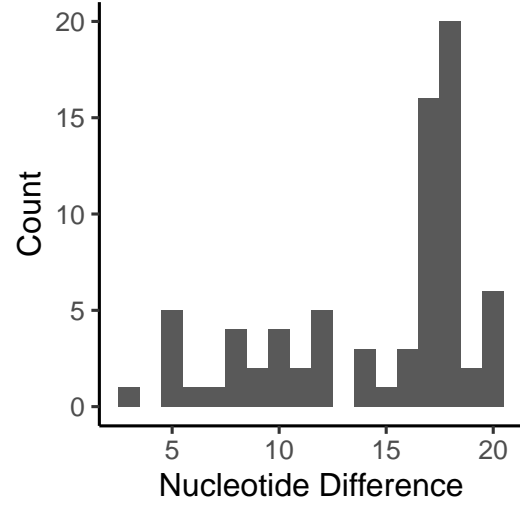
### IGHV4-4\*07

123 sequences assigned  
1 (0.8%) exact matches, in which:  
1 unique CDR3  
1 unique J



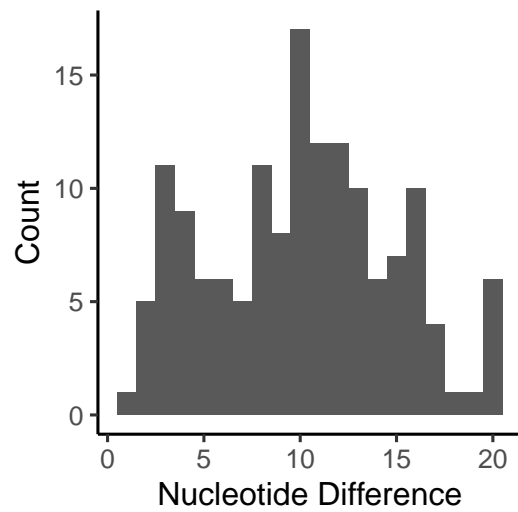
### IGHV4-30-2\*01

89 sequences assigned  
No exact matches.



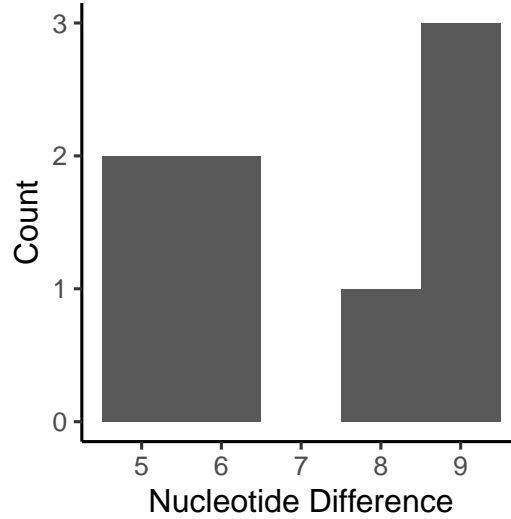
### IGHV3-74\*01\_02

173 sequences assigned  
No exact matches.



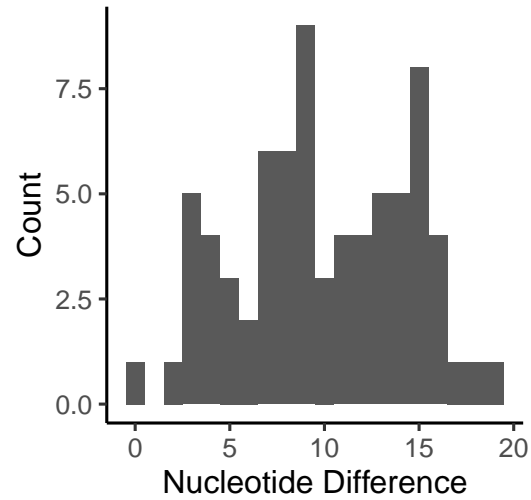
### IGHV4-28\*01\_07

8 sequences assigned  
No exact matches.



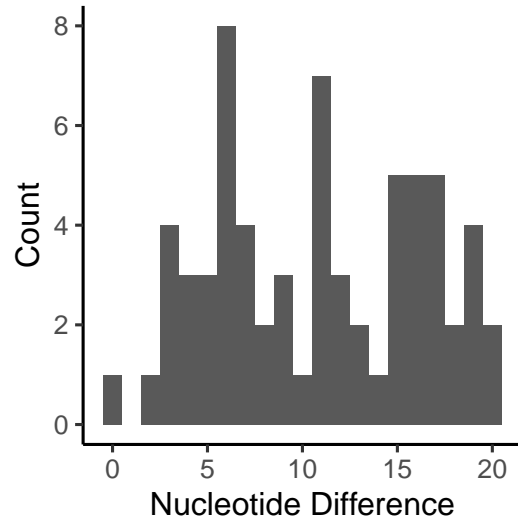
### IGHV4-31\*02

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



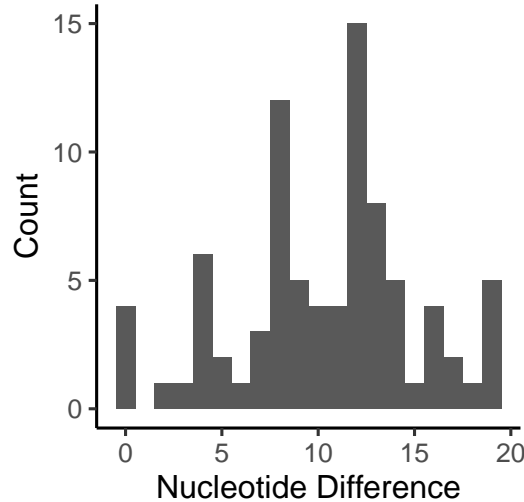
### IGHV3-64D\*09

86 sequences assigned  
1 (1.2%) exact matches, in which:  
1 unique CDR3  
1 unique J



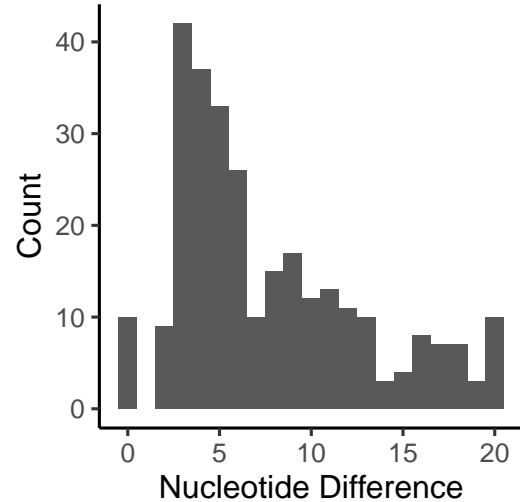
### IGHV4-30-4\*01

108 sequences assigned  
4 (3.7%) exact matches, in which:  
2 unique CDR3  
2 unique J



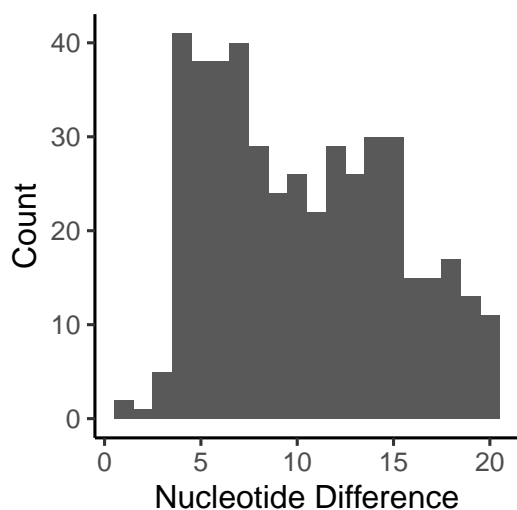
### IGHV4-34\*01\_02

333 sequences assigned  
10 (3%) exact matches, in which:  
6 unique CDR3  
4 unique J



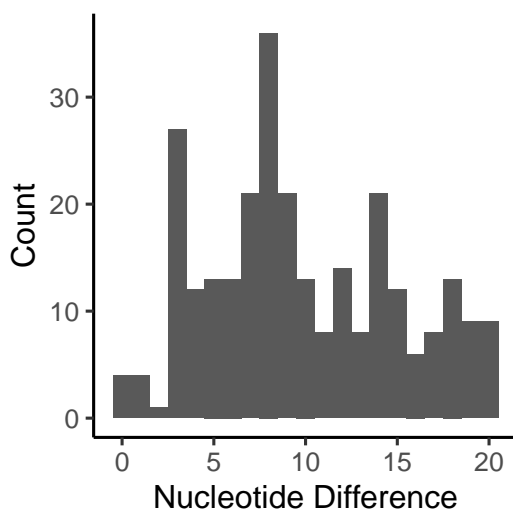
### IGHV4–39\*02

567 sequences assigned  
No exact matches.



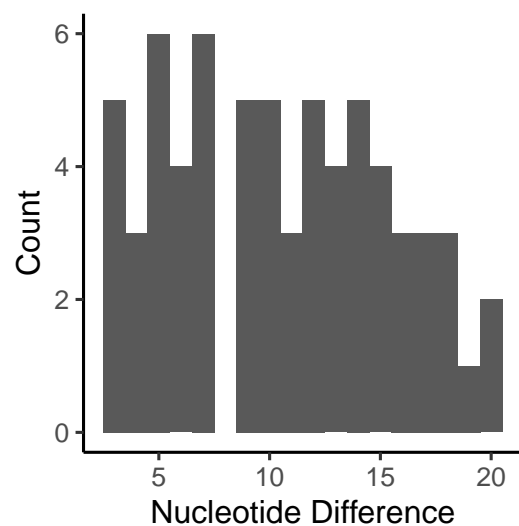
### IGHV4–59\*08

324 sequences assigned  
4 (1.2%) exact matches, in which:  
4 unique CDR3  
3 unique J



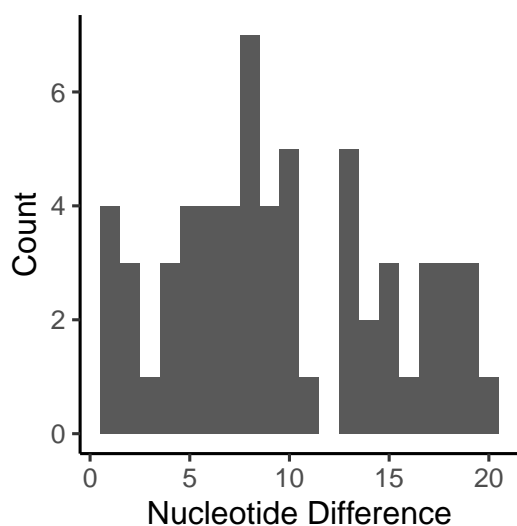
### IGHV4–61\*01

91 sequences assigned  
No exact matches.



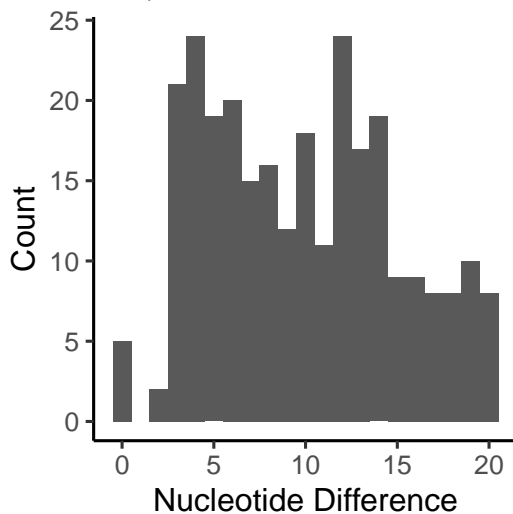
### IGHV4–39\*01\_05

82 sequences assigned  
No exact matches.



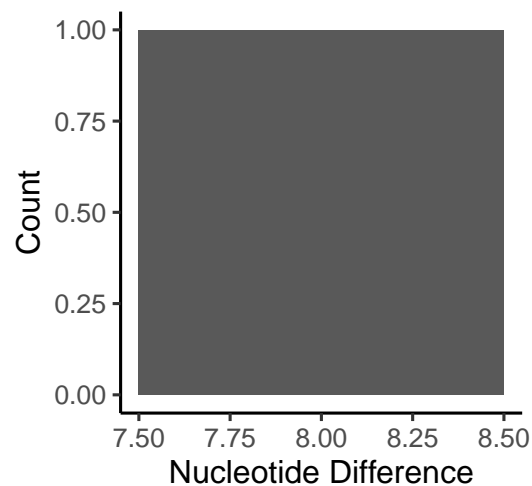
### IGHV4–59\*01\_07

309 sequences assigned  
5 (1.6%) exact matches, in which:  
3 unique CDR3  
3 unique J



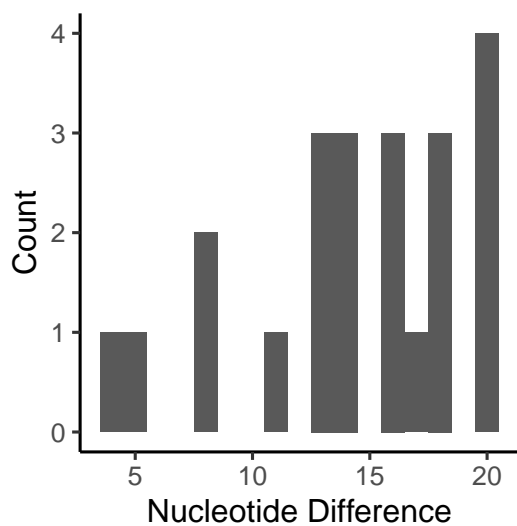
### IGHV4/OR15–8\*01

2 sequences assigned  
No exact matches.



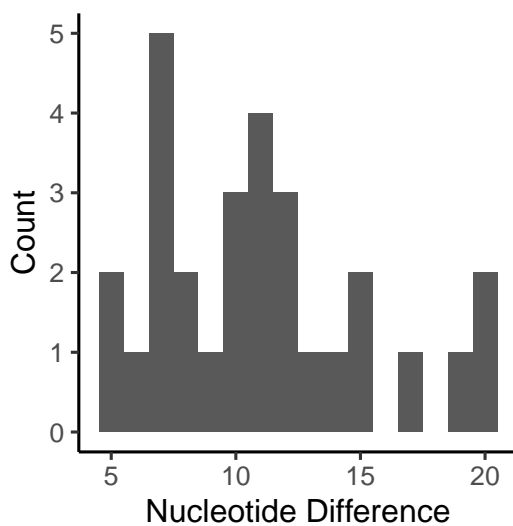
### IGHV4–59\*02

34 sequences assigned  
No exact matches.



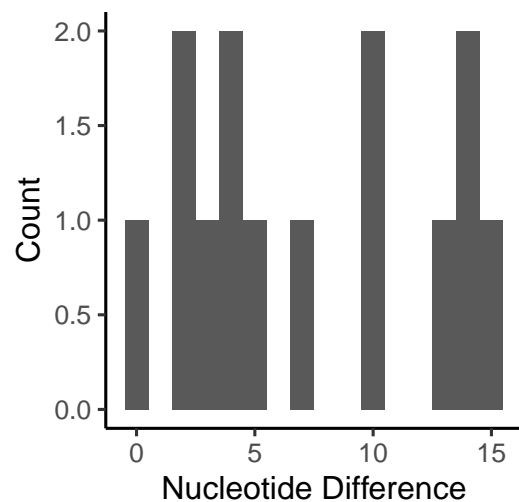
### IGHV4–59\*11

36 sequences assigned  
No exact matches.



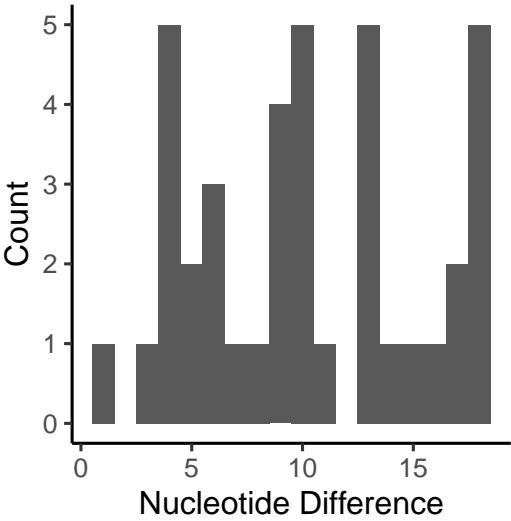
### IGHV5–10–1\*01\_03

21 sequences assigned  
1 (4.8%) exact matches, in which:  
1 unique CDR3  
1 unique J



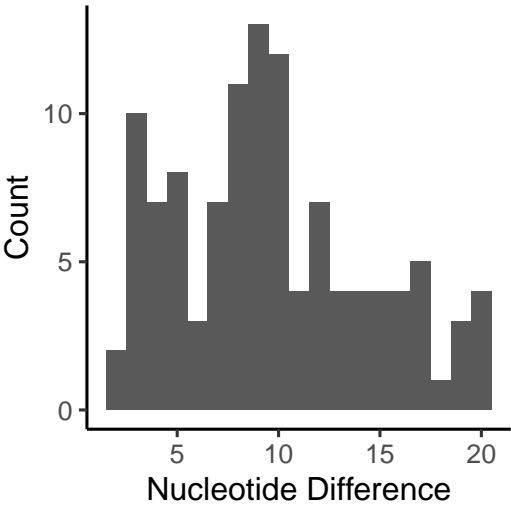
IGHV5-51\*07

45 sequences assigned  
No exact matches.



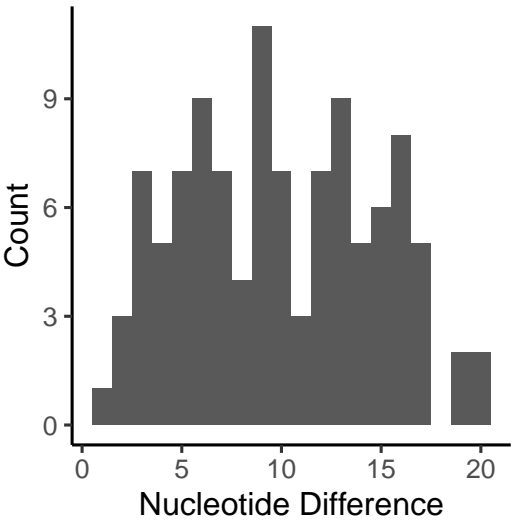
IGHV5-51\*01\_03

124 sequences assigned  
No exact matches.

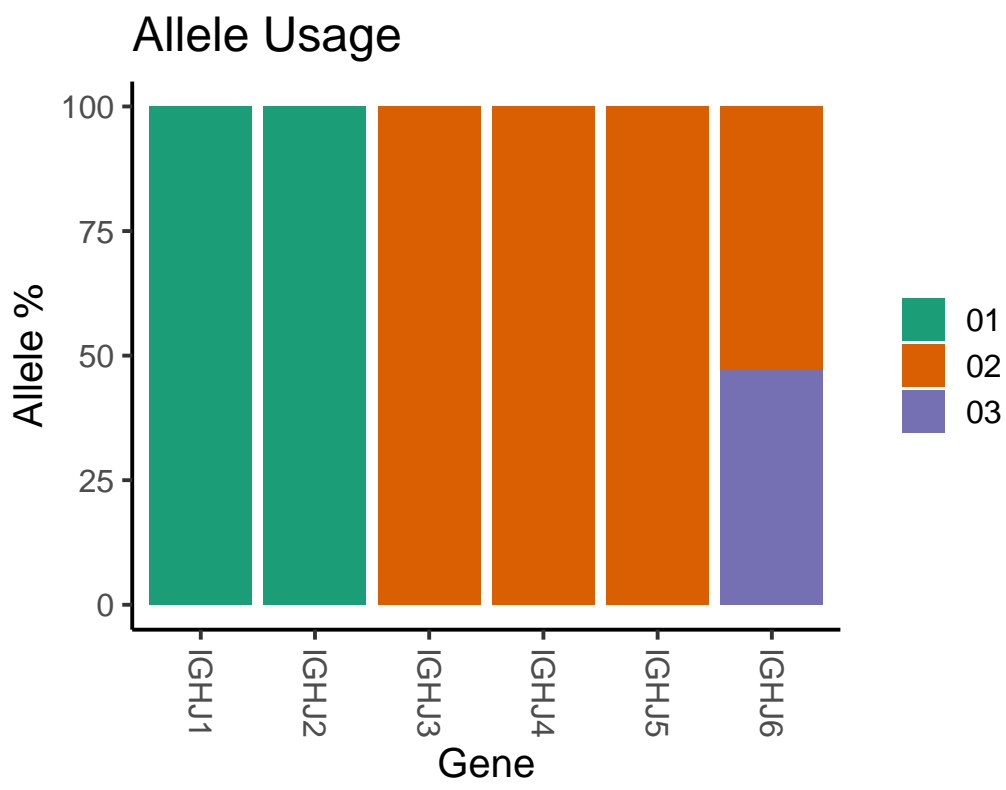


IGHV6-1\*01\_02

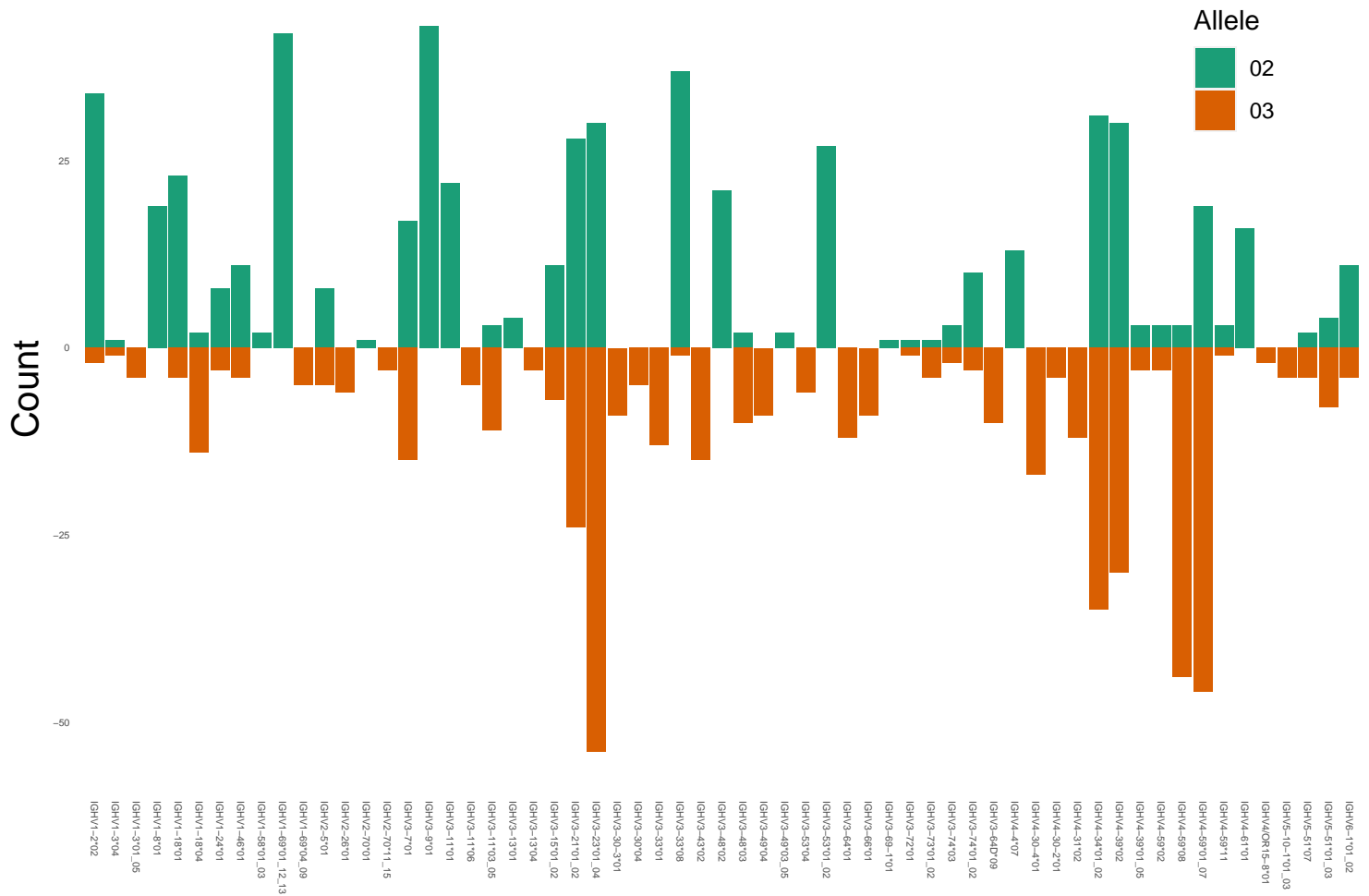
121 sequences assigned  
No exact matches.







### Sequence Count byIGHJ6 allele usage



Warning – no inferred sequences found.