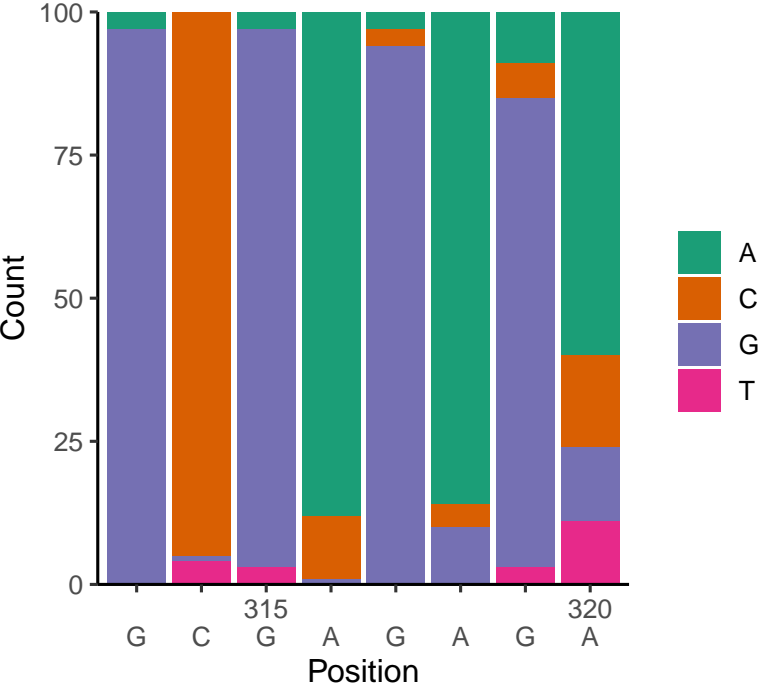
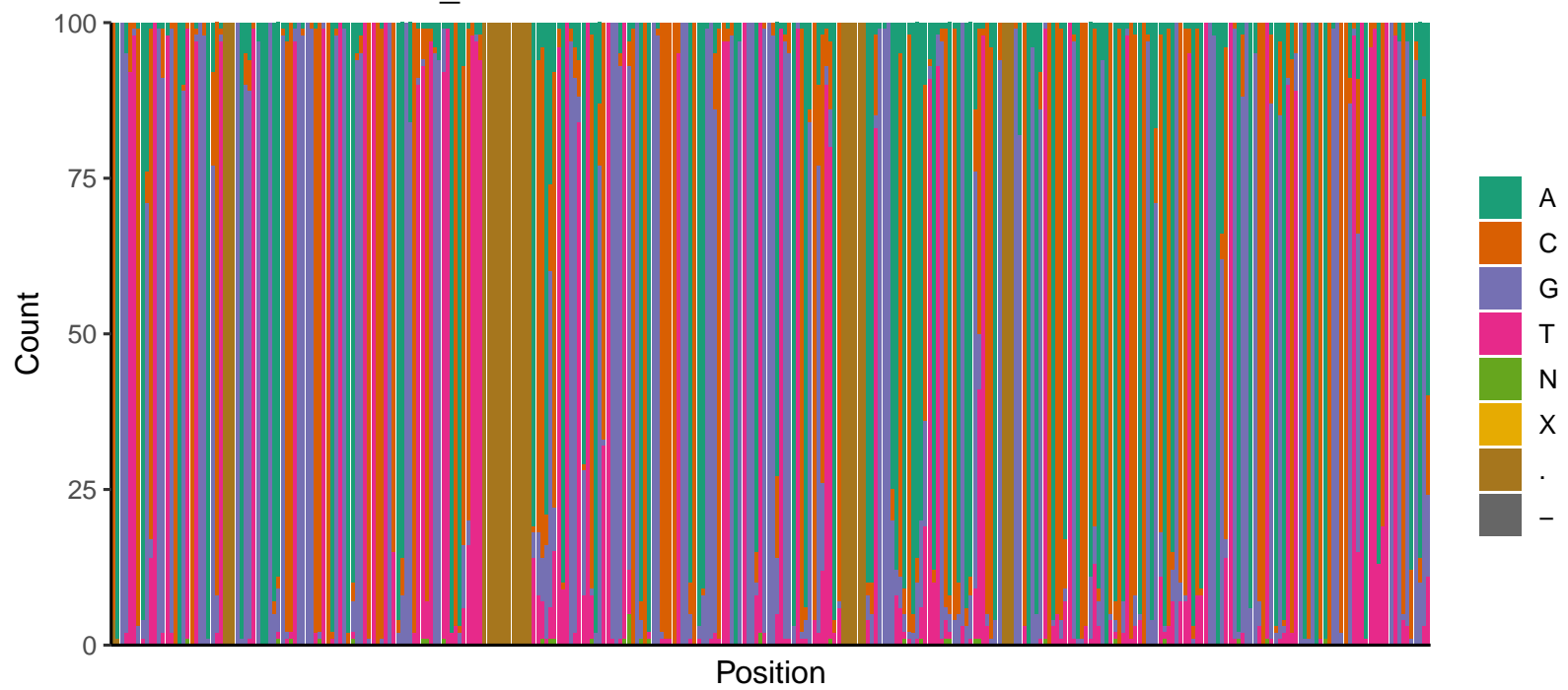


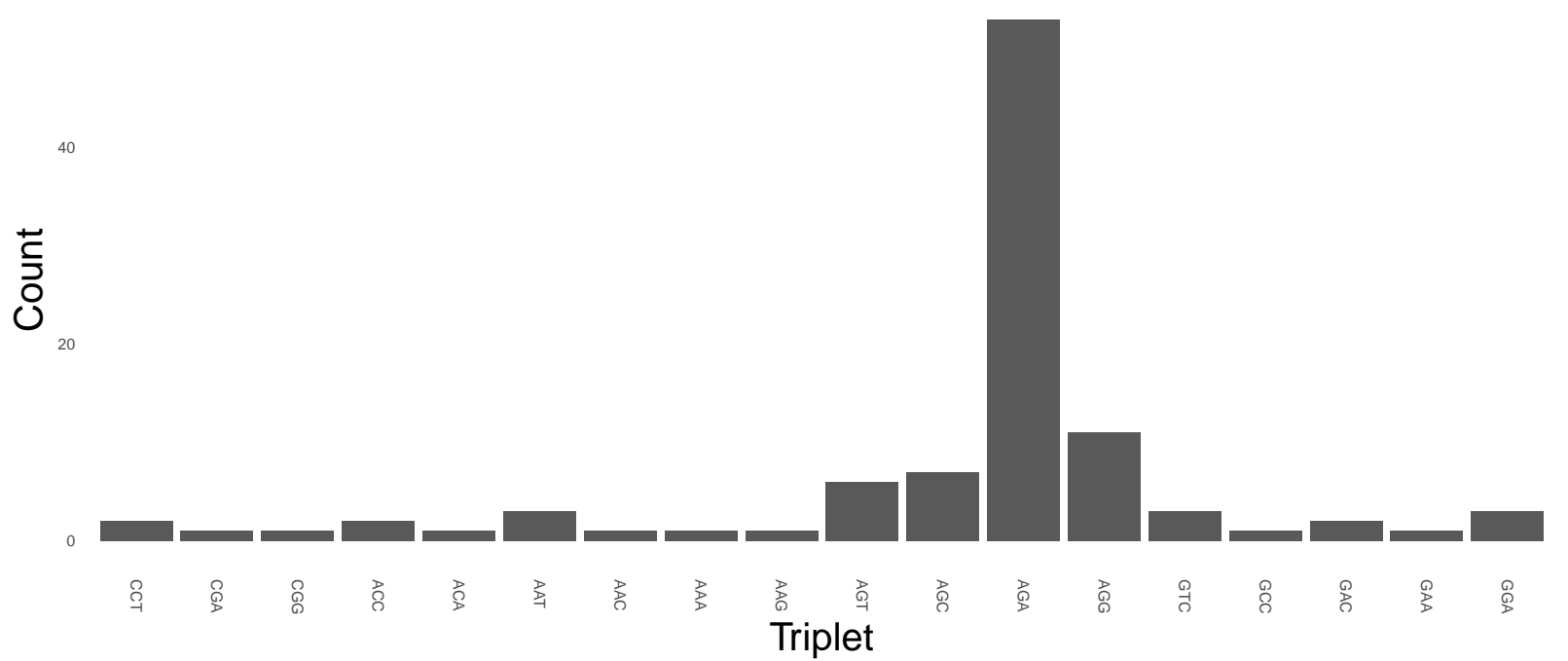
Gene IGHV1-18\*01\_T189G



## Gene IGHV1-18\*01\_T189G

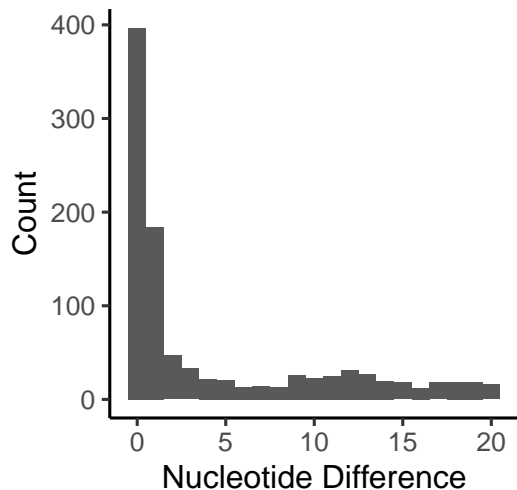


IGHV1-18\*01\_T189G- Final 3 nucleotides as a triplet



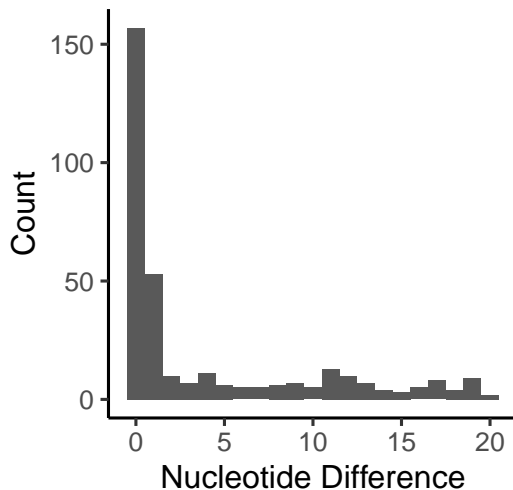
### IGHV1-2\*02

1289 sequences assigned  
397 (30.8%) exact matches, in which:  
387 unique CDR3  
6 unique J



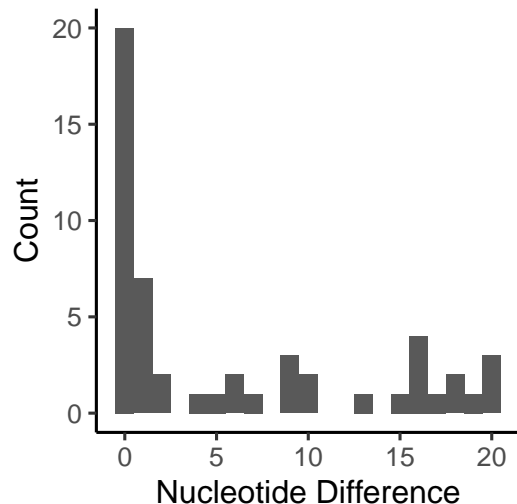
### IGHV1-8\*01

386 sequences assigned  
157 (40.7%) exact matches, in which:  
157 unique CDR3  
6 unique J



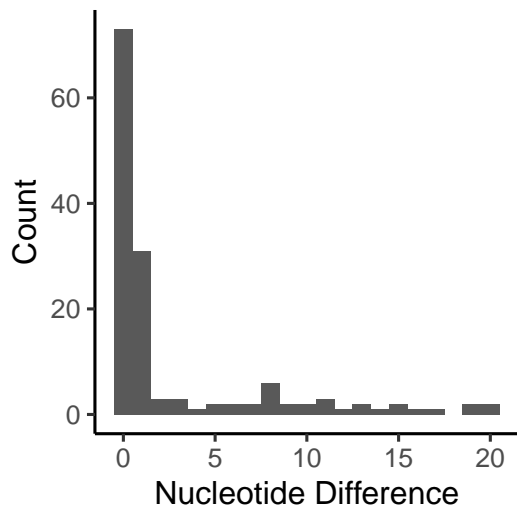
### IGHV1-18\*01\_T189G

100 sequences assigned  
20 (20%) exact matches, in which:  
20 unique CDR3  
4 unique J



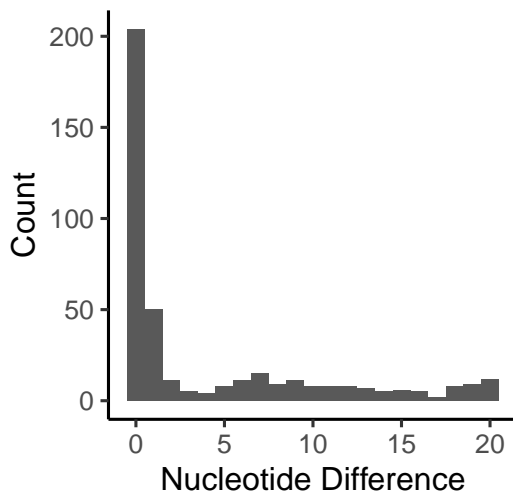
### IGHV1-2\*04

152 sequences assigned  
73 (48%) exact matches, in which:  
73 unique CDR3  
4 unique J



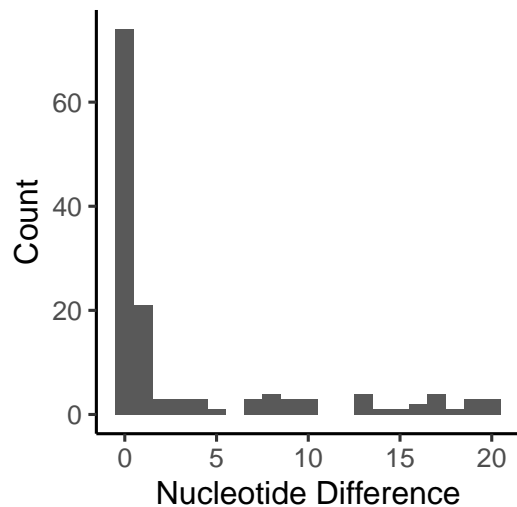
### IGHV1-18\*01

571 sequences assigned  
204 (35.7%) exact matches, in which:  
202 unique CDR3  
6 unique J



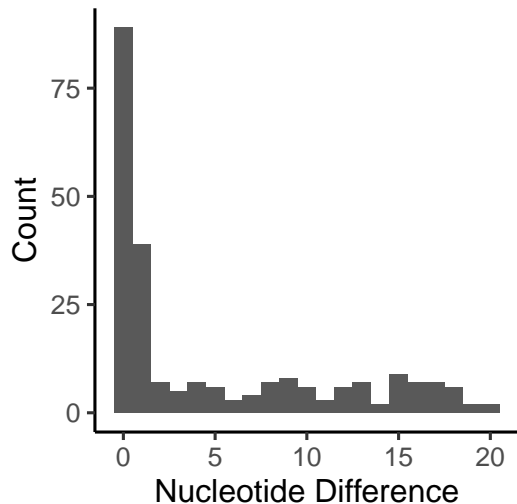
### IGHV1-24\*01

189 sequences assigned  
74 (39.2%) exact matches, in which:  
74 unique CDR3  
6 unique J



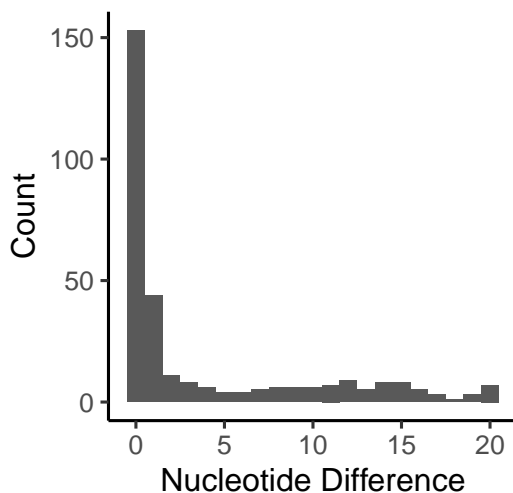
### IGHV1-3\*01

346 sequences assigned  
89 (25.7%) exact matches, in which:  
89 unique CDR3  
5 unique J



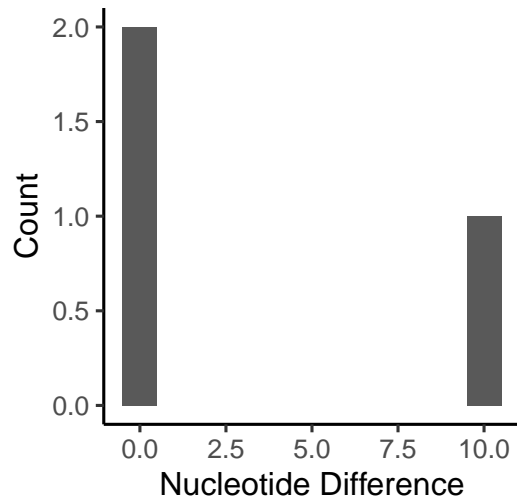
### IGHV1-18\*04

430 sequences assigned  
153 (35.6%) exact matches, in which:  
152 unique CDR3  
5 unique J



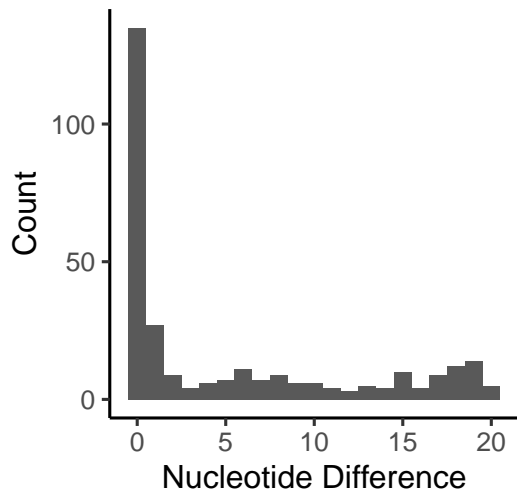
### IGHV1-45\*02

23 sequences assigned  
2 (8.7%) exact matches, in which:  
2 unique CDR3  
2 unique J



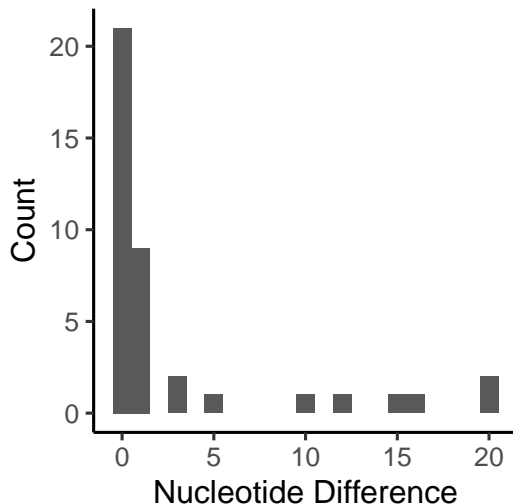
### IGHV1-46\*01

426 sequences assigned  
135 (31.7%) exact matches, in which:  
135 unique CDR3  
6 unique J



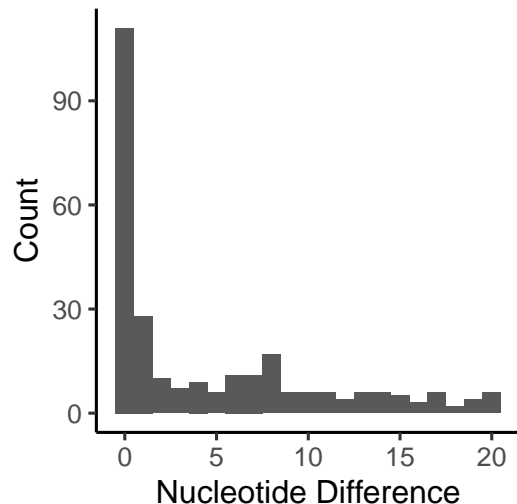
### IGHV1-58\*02

47 sequences assigned  
21 (44.7%) exact matches, in which:  
21 unique CDR3  
5 unique J



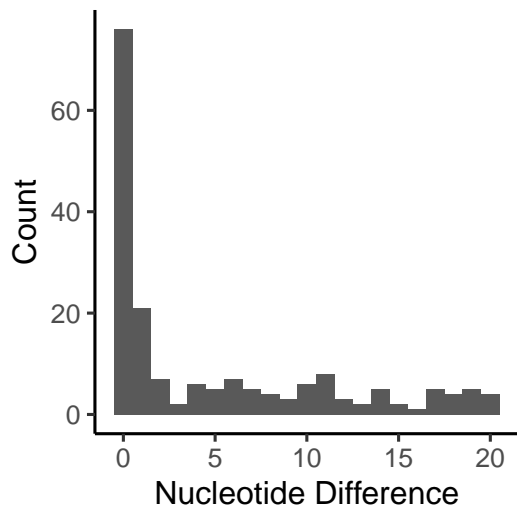
### IGHV2-5\*01

307 sequences assigned  
111 (36.2%) exact matches, in which:  
111 unique CDR3  
6 unique J



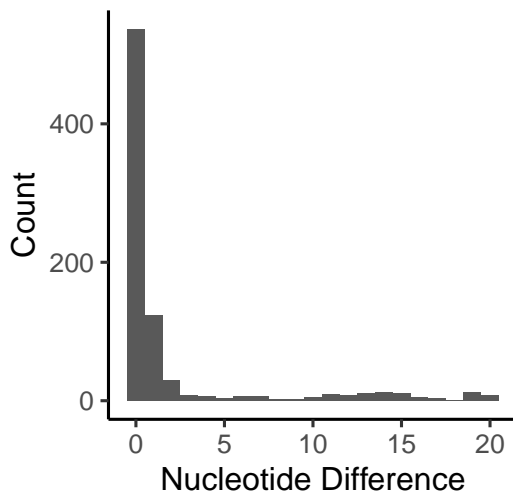
### IGHV1-46\*03

213 sequences assigned  
76 (35.7%) exact matches, in which:  
76 unique CDR3  
6 unique J



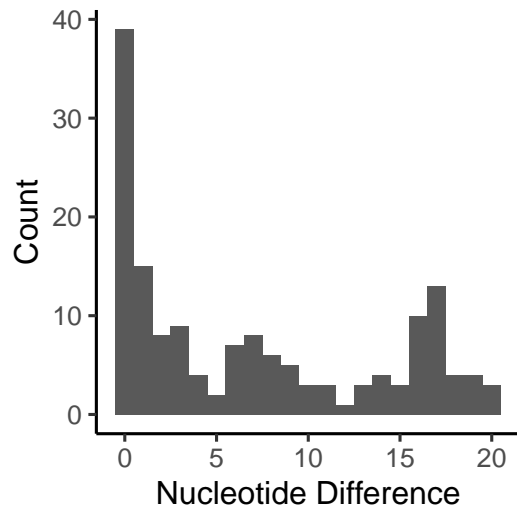
### IGHV1-69\*01

981 sequences assigned  
537 (54.7%) exact matches, in which:  
535 unique CDR3  
6 unique J



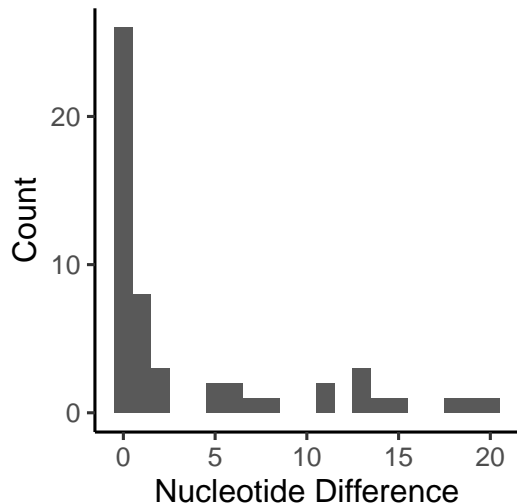
### IGHV2-5\*02

228 sequences assigned  
39 (17.1%) exact matches, in which:  
39 unique CDR3  
5 unique J



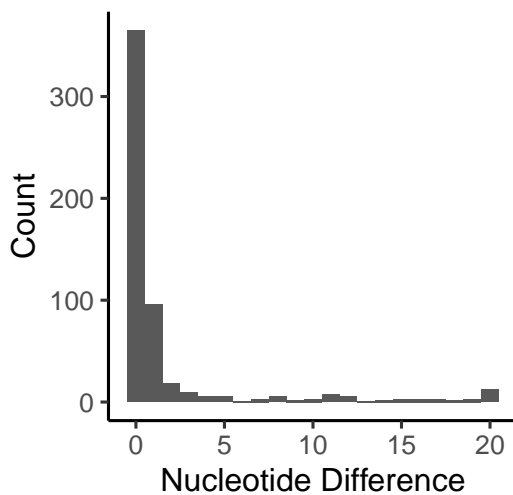
### IGHV1-58\*01

62 sequences assigned  
26 (41.9%) exact matches, in which:  
26 unique CDR3  
6 unique J



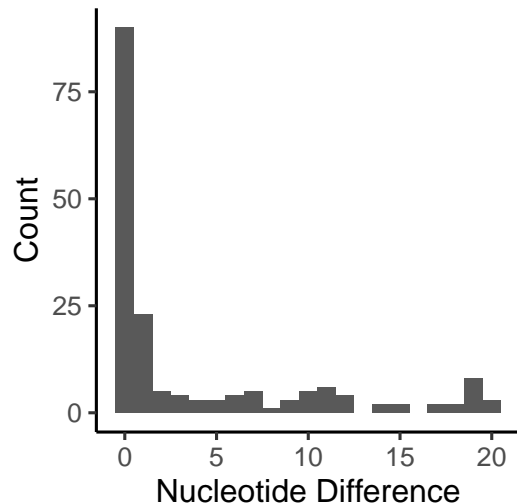
### IGHV1-69\*10

744 sequences assigned  
365 (49.1%) exact matches, in which:  
363 unique CDR3  
6 unique J



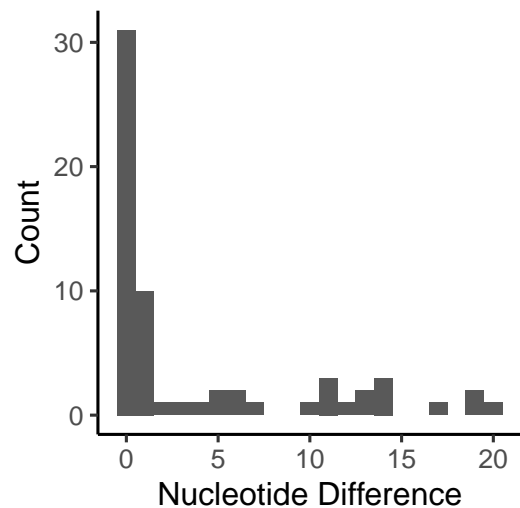
### IGHV2-26\*01

219 sequences assigned  
90 (41.1%) exact matches, in which:  
90 unique CDR3  
5 unique J



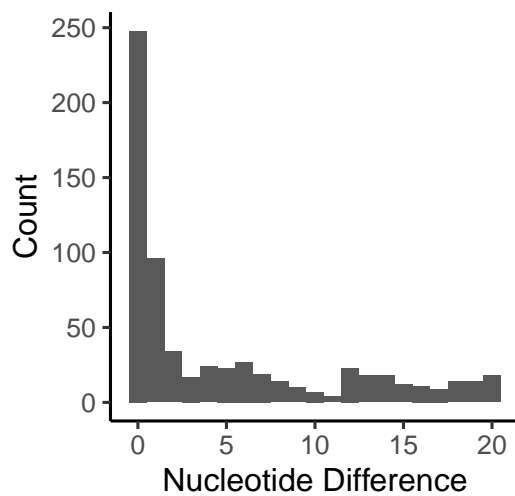
### IGHV2-70\*01

77 sequences assigned  
31 (40.3%) exact matches, in which:  
31 unique CDR3  
5 unique J



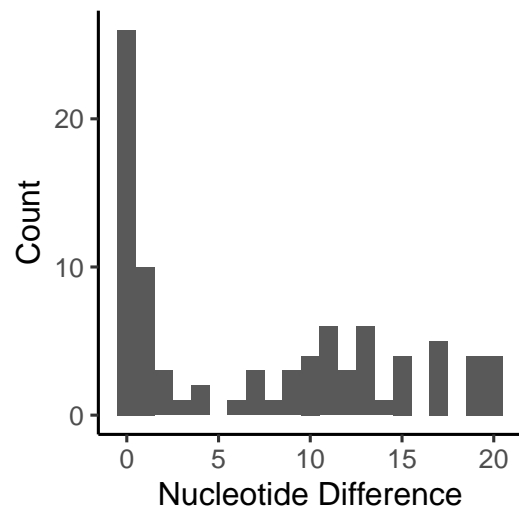
### IGHV3-9\*01

880 sequences assigned  
248 (28.2%) exact matches, in which:  
248 unique CDR3  
6 unique J



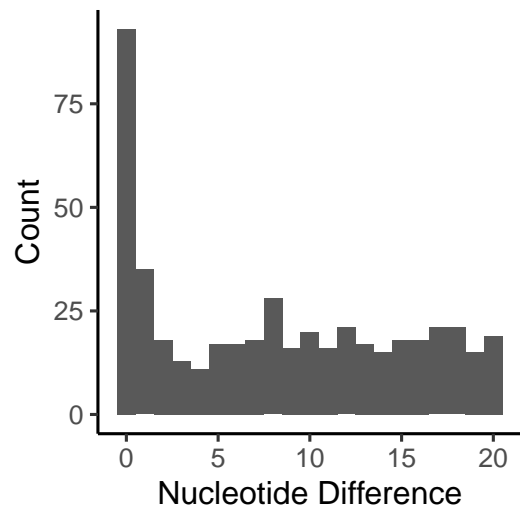
### IGHV3-13\*01

115 sequences assigned  
26 (22.6%) exact matches, in which:  
26 unique CDR3  
5 unique J



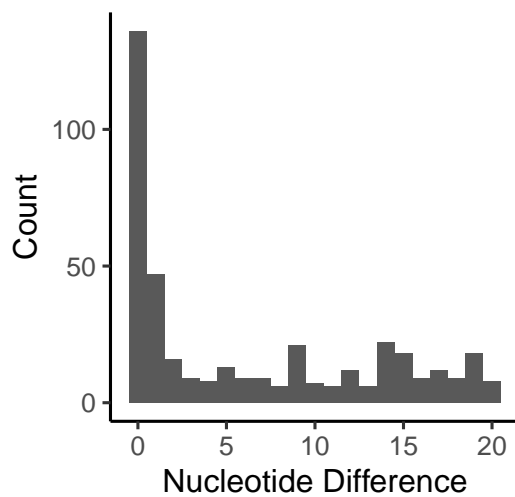
### IGHV3-7\*01

610 sequences assigned  
93 (15.2%) exact matches, in which:  
93 unique CDR3  
6 unique J



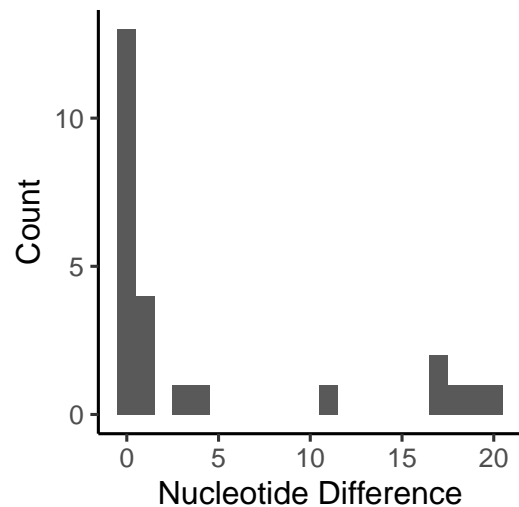
### IGHV3-11\*01

528 sequences assigned  
136 (25.8%) exact matches, in which:  
133 unique CDR3  
6 unique J



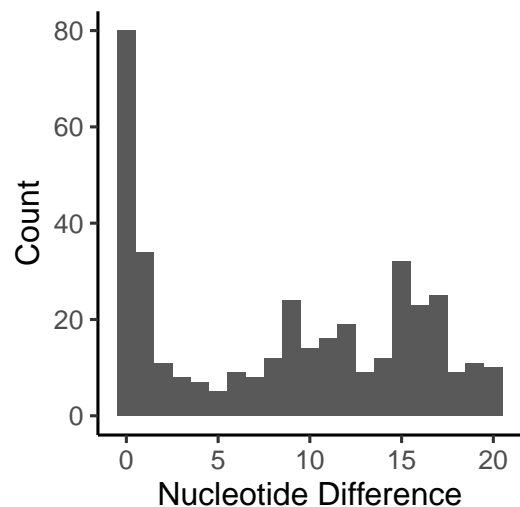
### IGHV3-13\*05

26 sequences assigned  
13 (50%) exact matches, in which:  
13 unique CDR3  
4 unique J



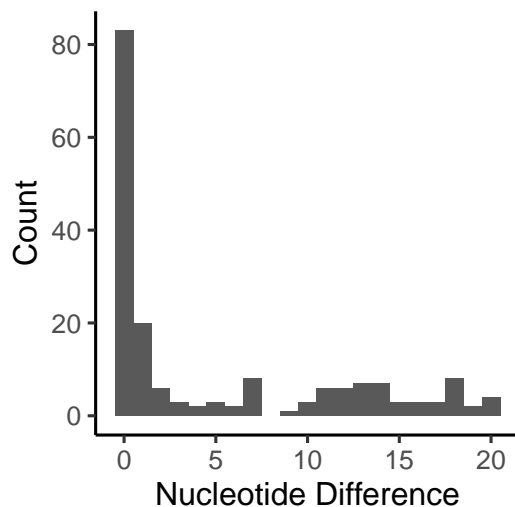
### IGHV3-7\*03

518 sequences assigned  
80 (15.4%) exact matches, in which:  
80 unique CDR3  
5 unique J



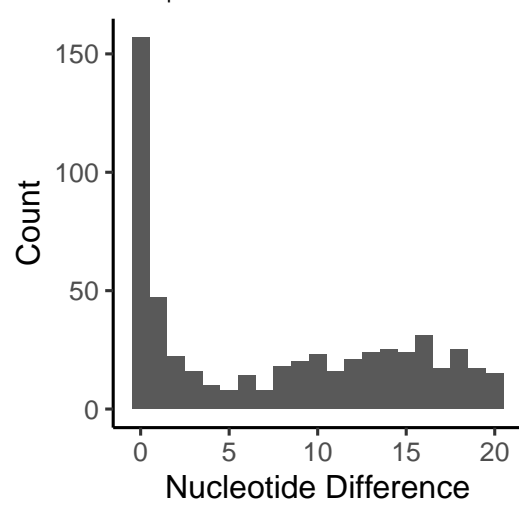
### IGHV3-11\*06

435 sequences assigned  
83 (19.1%) exact matches, in which:  
83 unique CDR3  
6 unique J



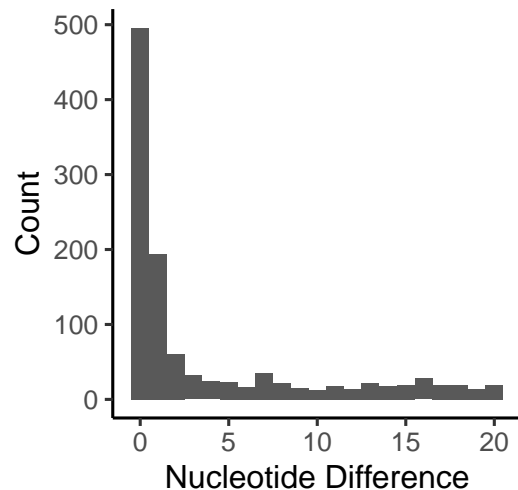
### IGHV3-15\*01

775 sequences assigned  
157 (20.3%) exact matches, in which:  
156 unique CDR3  
6 unique J



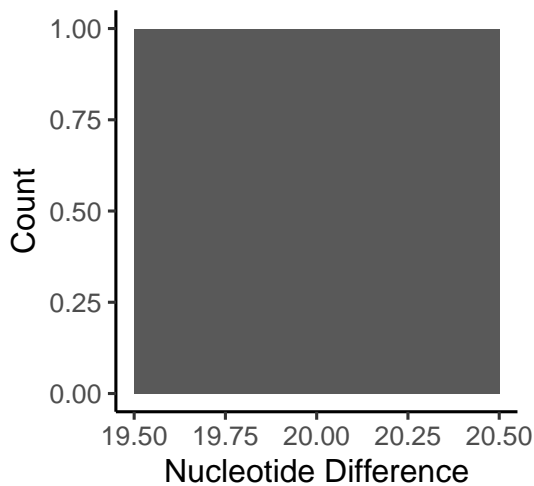
### IGHV3-21\*01

1471 sequences assigned  
496 (33.7%) exact matches, in which:  
496 unique CDR3  
6 unique J



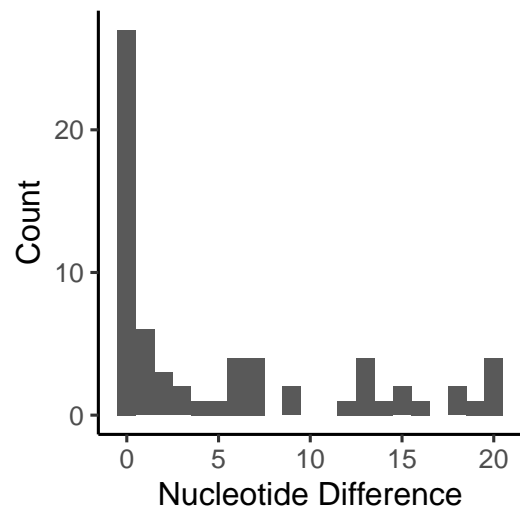
### IGHV3-30-3\*01

12 sequences assigned  
No exact matches.



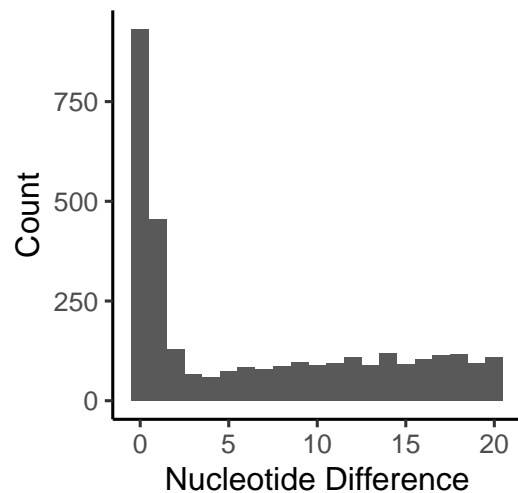
### IGHV3-43\*01

96 sequences assigned  
27 (28.1%) exact matches, in which:  
27 unique CDR3  
3 unique J



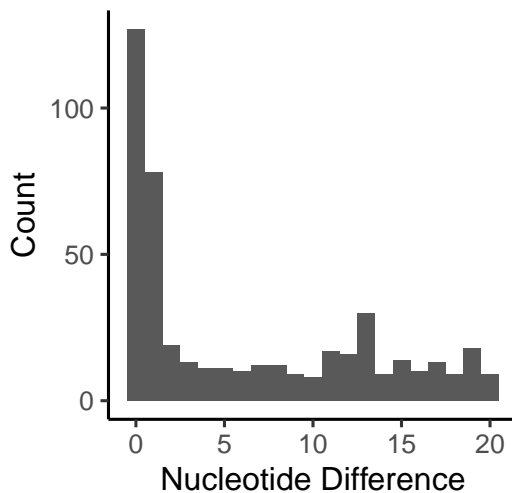
### IGHV3-23\*01

4444 sequences assigned  
932 (21%) exact matches, in which:  
928 unique CDR3  
6 unique J



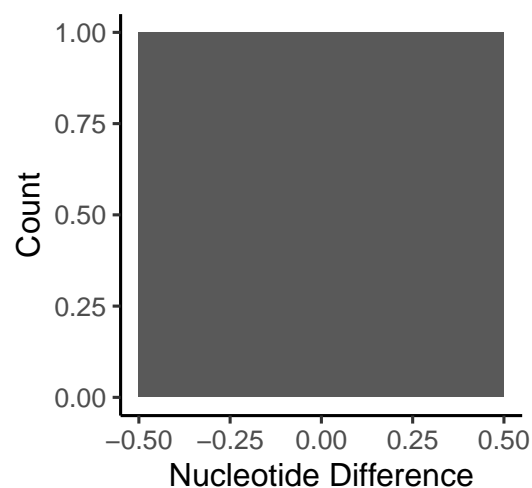
### IGHV3-30\*18

609 sequences assigned  
127 (20.9%) exact matches, in which:  
125 unique CDR3  
6 unique J



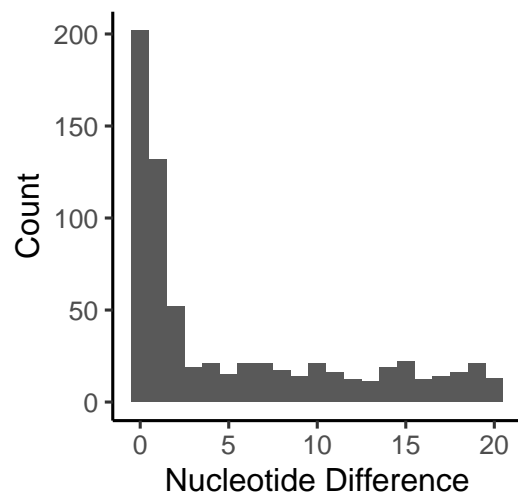
### IGHV3-47\*02

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



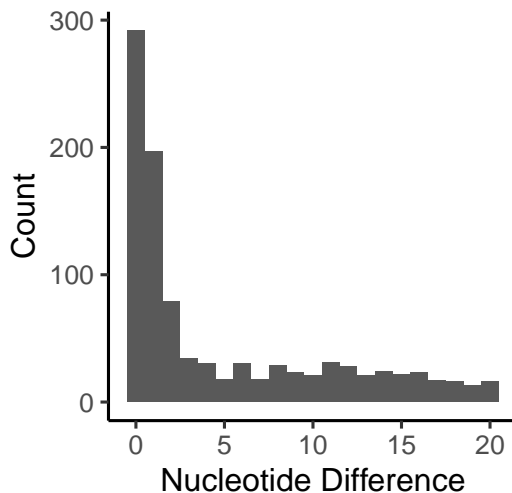
### IGHV3-30\*01

899 sequences assigned  
202 (22.5%) exact matches, in which:  
202 unique CDR3  
6 unique J



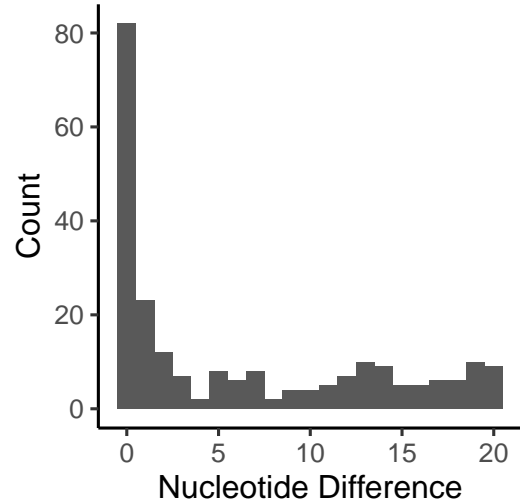
### IGHV3-33\*01

1186 sequences assigned  
292 (24.6%) exact matches, in which:  
292 unique CDR3  
6 unique J



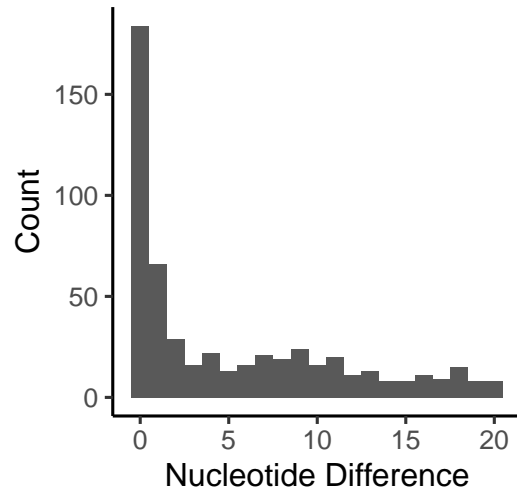
### IGHV3-48\*02

327 sequences assigned  
82 (25.1%) exact matches, in which:  
82 unique CDR3  
5 unique J



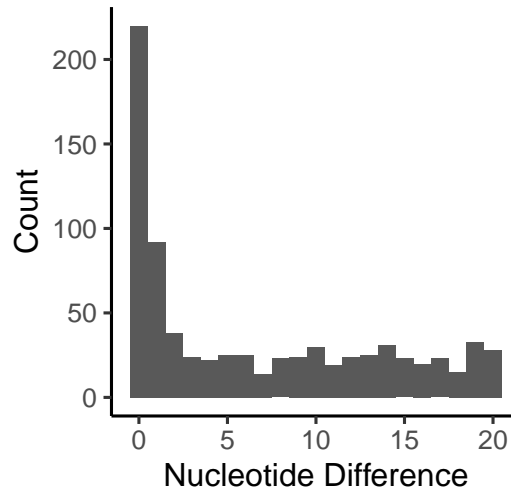
### IGHV3-48\*03

685 sequences assigned  
184 (26.9%) exact matches, in which:  
184 unique CDR3  
6 unique J



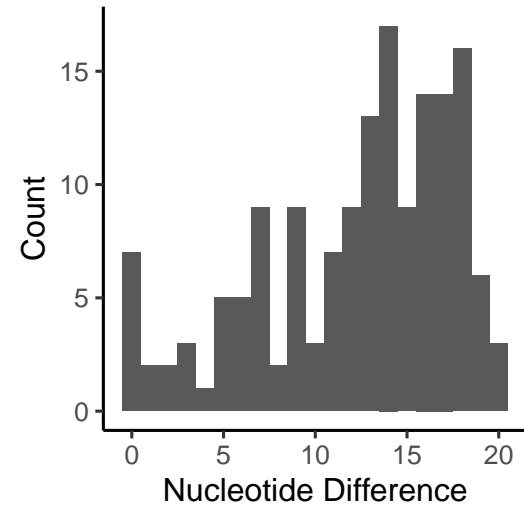
### IGHV3-53\*01

1017 sequences assigned  
220 (21.6%) exact matches, in which:  
218 unique CDR3  
6 unique J



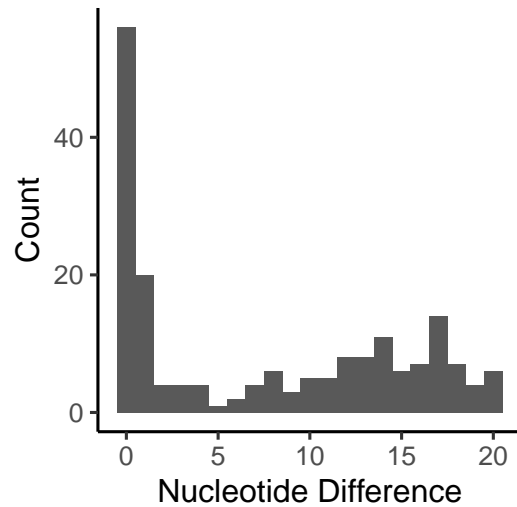
### IGHV3-72\*01

204 sequences assigned  
7 (3.4%) exact matches, in which:  
7 unique CDR3  
4 unique J



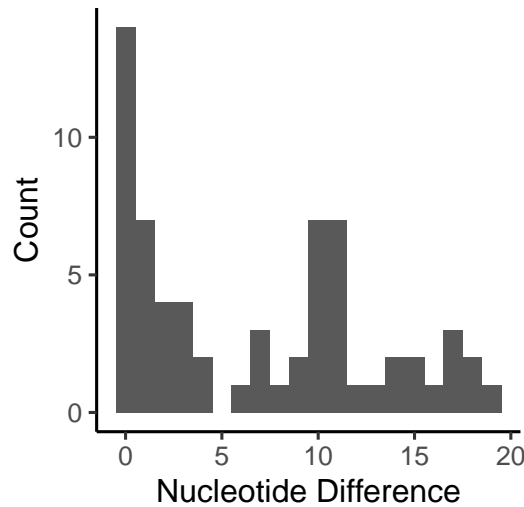
### IGHV3-49\*04

277 sequences assigned  
56 (20.2%) exact matches, in which:  
56 unique CDR3  
6 unique J



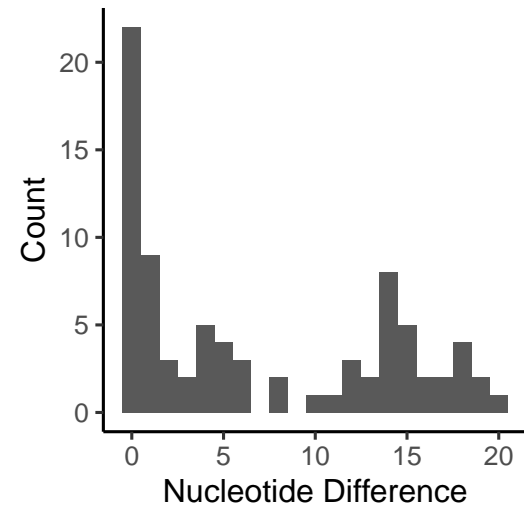
### IGHV3-64\*01

87 sequences assigned  
14 (16.1%) exact matches, in which:  
14 unique CDR3  
3 unique J



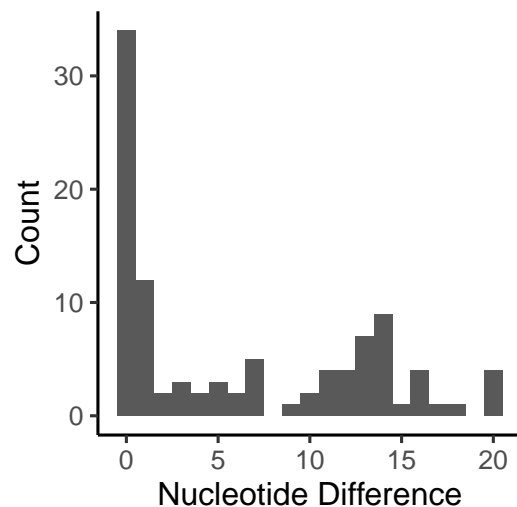
### IGHV3-73\*01

97 sequences assigned  
22 (22.7%) exact matches, in which:  
22 unique CDR3  
5 unique J



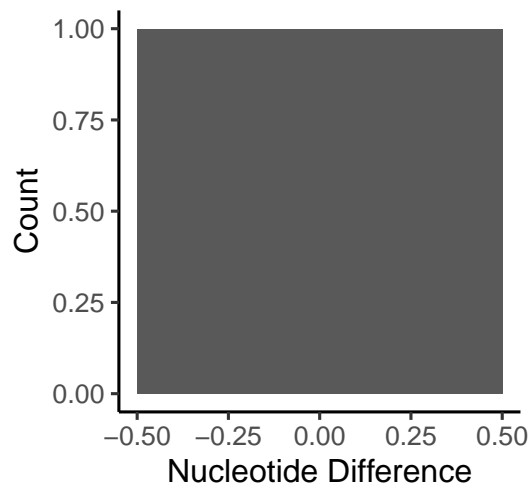
### IGHV3-49\*05

141 sequences assigned  
34 (24.1%) exact matches, in which:  
33 unique CDR3  
5 unique J



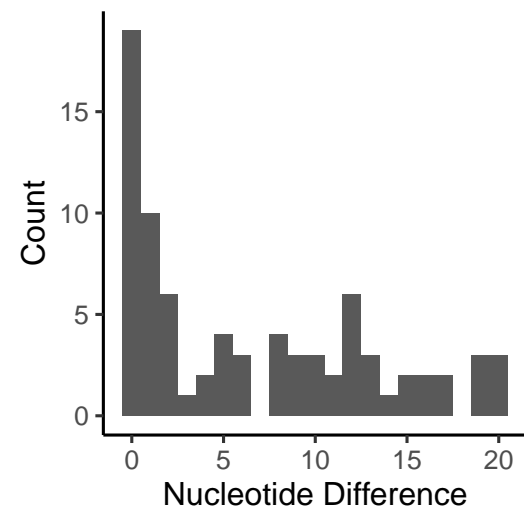
### IGHV3-66\*03

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



### IGHV3-73\*02

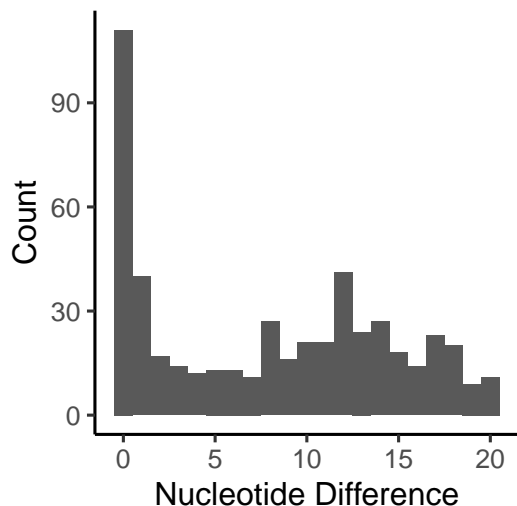
94 sequences assigned  
19 (20.2%) exact matches, in which:  
19 unique CDR3  
3 unique J





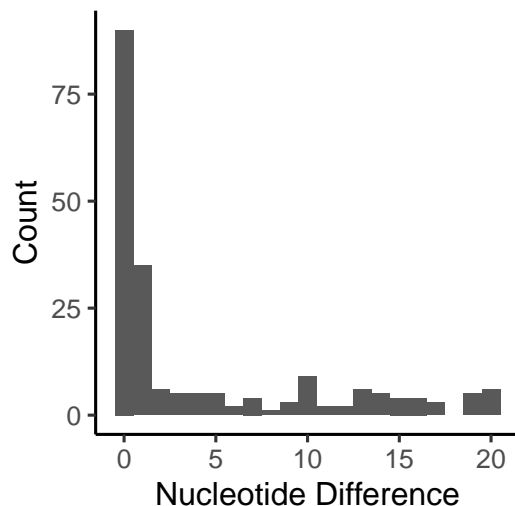
### IGHV3-74\*01

600 sequences assigned  
111 (18.5%) exact matches, in which:  
110 unique CDR3  
5 unique J



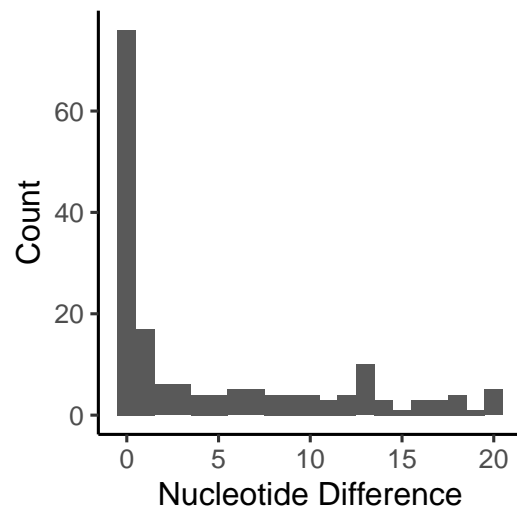
### IGHV4-4\*07

271 sequences assigned  
90 (33.2%) exact matches, in which:  
89 unique CDR3  
6 unique J



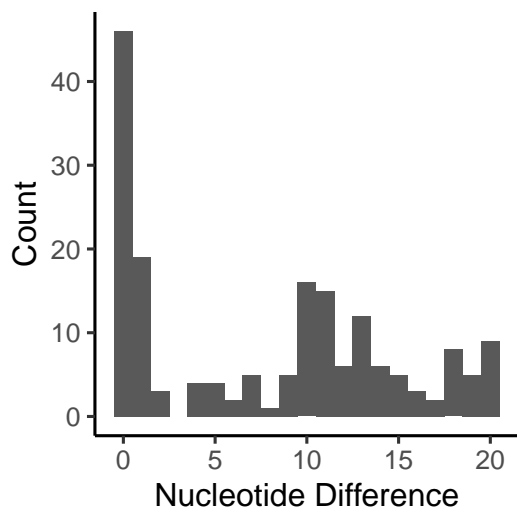
### IGHV4-31\*03

248 sequences assigned  
76 (30.6%) exact matches, in which:  
76 unique CDR3  
5 unique J



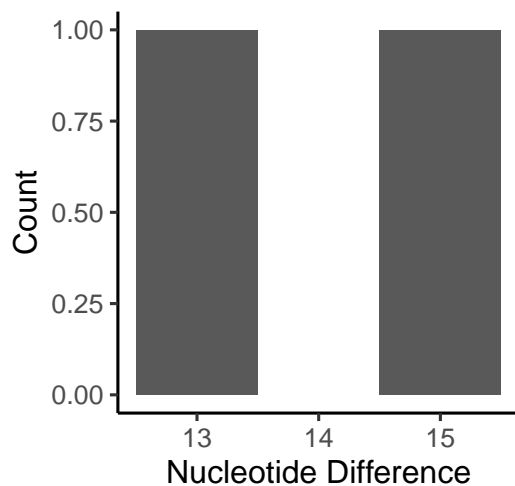
### IGHV3-64D\*06

300 sequences assigned  
46 (15.3%) exact matches, in which:  
46 unique CDR3  
4 unique J



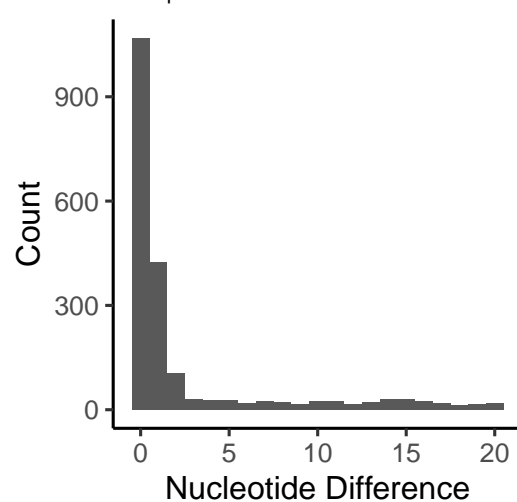
### IGHV4-28\*07

2 sequences assigned  
No exact matches.



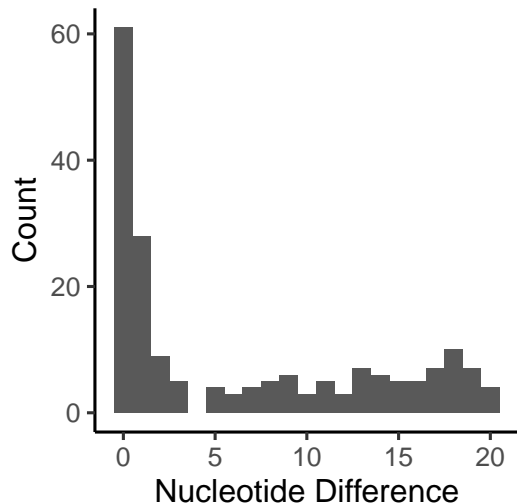
### IGHV4-34\*01

2327 sequences assigned  
1069 (45.9%) exact matches, in which:  
1062 unique CDR3  
6 unique J



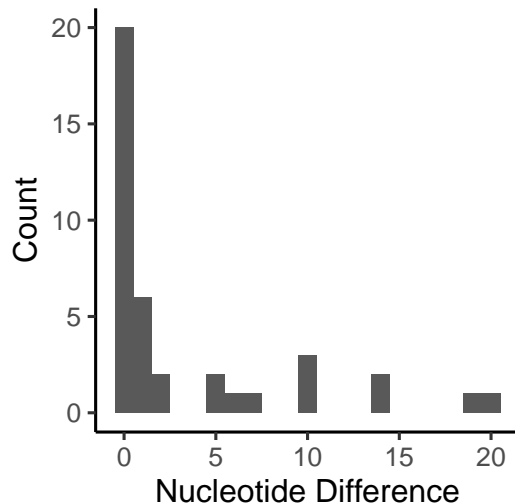
### IGHV4-4\*02

278 sequences assigned  
61 (21.9%) exact matches, in which:  
61 unique CDR3  
5 unique J



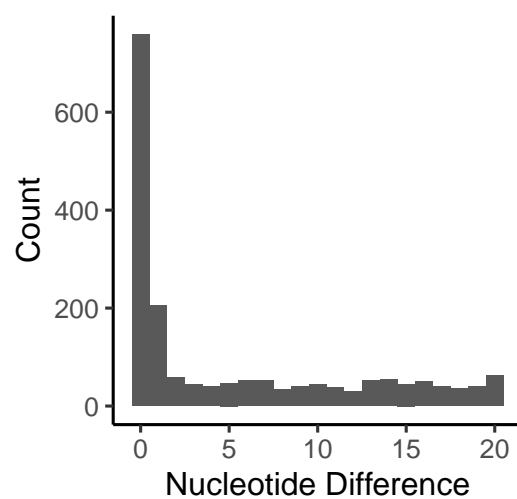
### IGHV4-31\*01

40 sequences assigned  
20 (50%) exact matches, in which:  
20 unique CDR3  
6 unique J



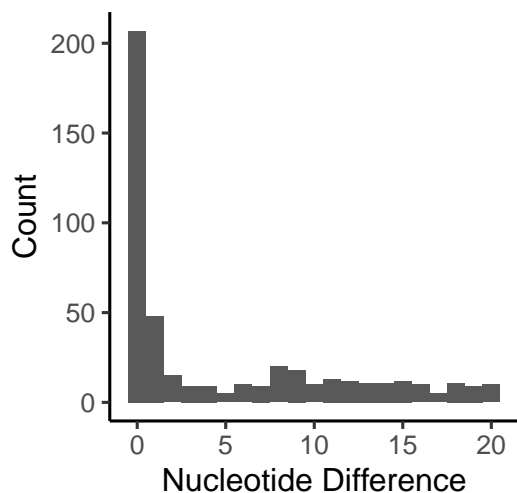
### IGHV4-39\*01

2399 sequences assigned  
759 (31.6%) exact matches, in which:  
758 unique CDR3  
6 unique J



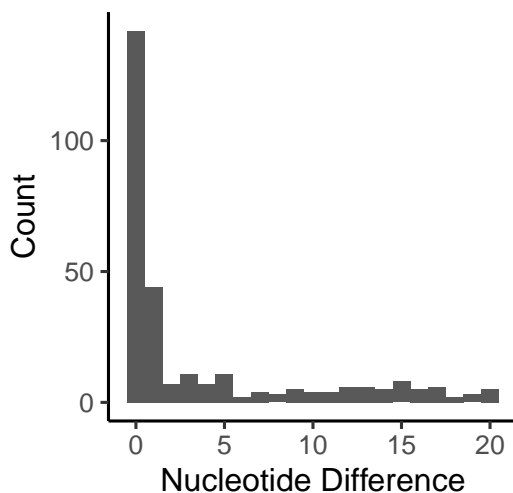
### IGHV4–59\*01

611 sequences assigned  
207 (33.9%) exact matches, in which:  
203 unique CDR3  
6 unique J



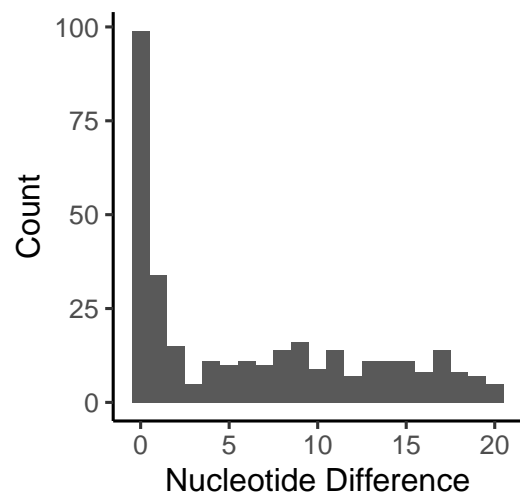
### IGHV5–10–1\*03

401 sequences assigned  
142 (35.4%) exact matches, in which:  
142 unique CDR3  
4 unique J



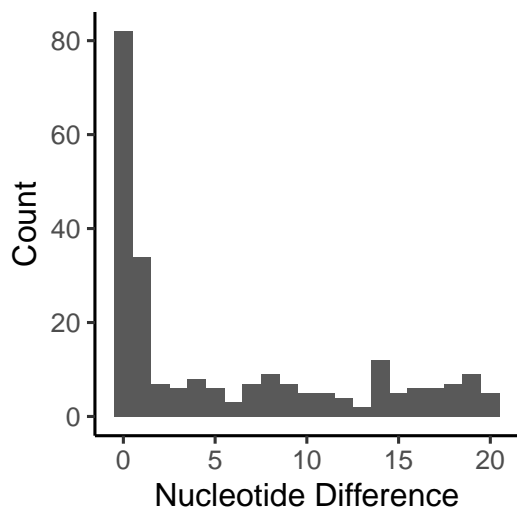
### IGHV6–1\*01

383 sequences assigned  
99 (25.8%) exact matches, in which:  
98 unique CDR3  
5 unique J



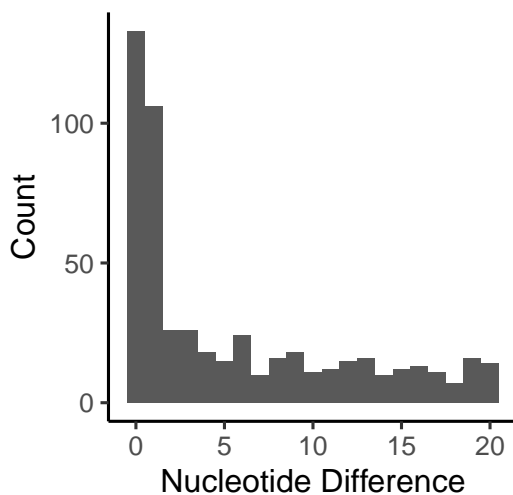
### IGHV4–59\*08

285 sequences assigned  
82 (28.8%) exact matches, in which:  
82 unique CDR3  
6 unique J



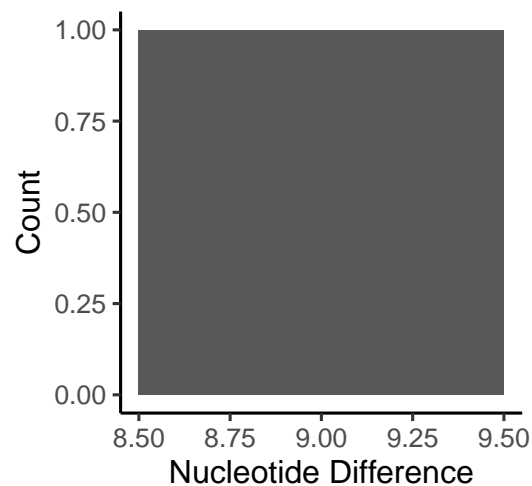
### IGHV5–51\*01

681 sequences assigned  
133 (19.5%) exact matches, in which:  
133 unique CDR3  
6 unique J



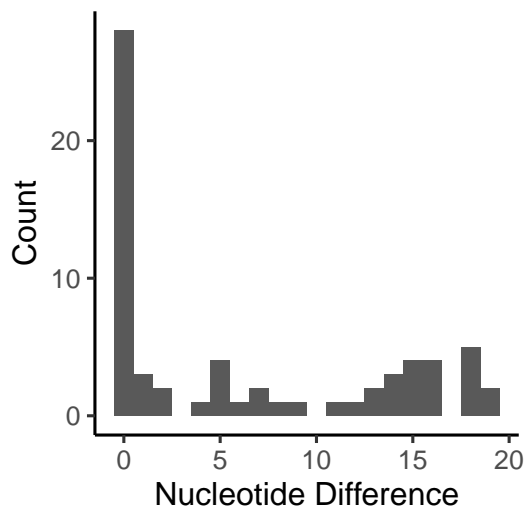
### IGHV3/OR16–9\*01

1 sequences assigned  
No exact matches.



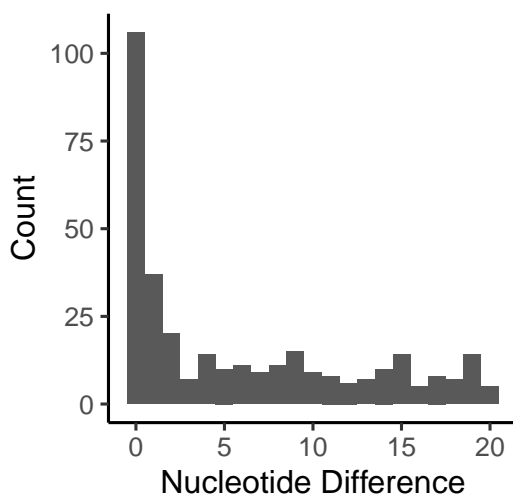
### IGHV4–61\*01

101 sequences assigned  
28 (27.7%) exact matches, in which:  
28 unique CDR3  
5 unique J



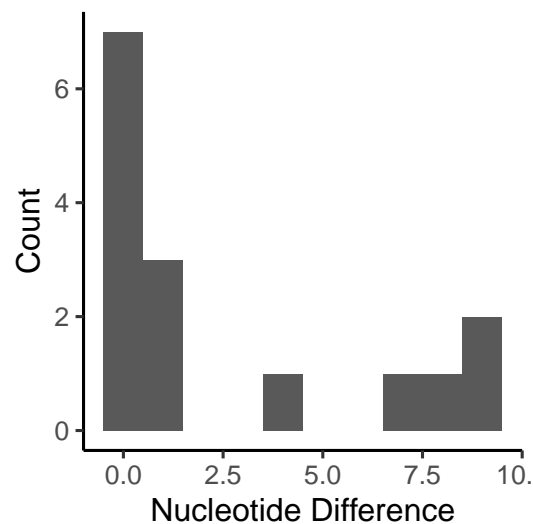
### IGHV5–51\*03

421 sequences assigned  
106 (25.2%) exact matches, in which:  
105 unique CDR3  
6 unique J



### IGHV7–4–1\*01

24 sequences assigned  
7 (29.2%) exact matches, in which:  
7 unique CDR3  
2 unique J



IGHV1-18\*01\_T189G

