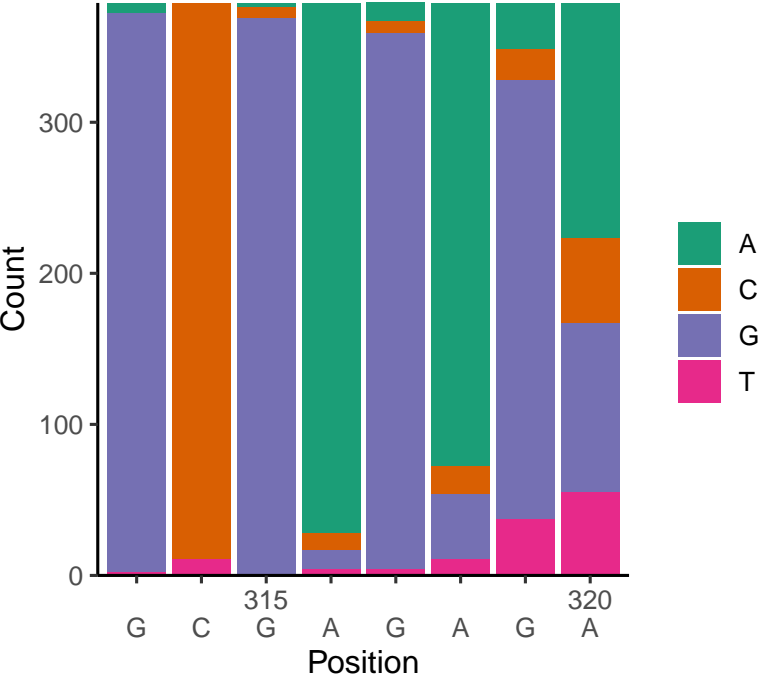


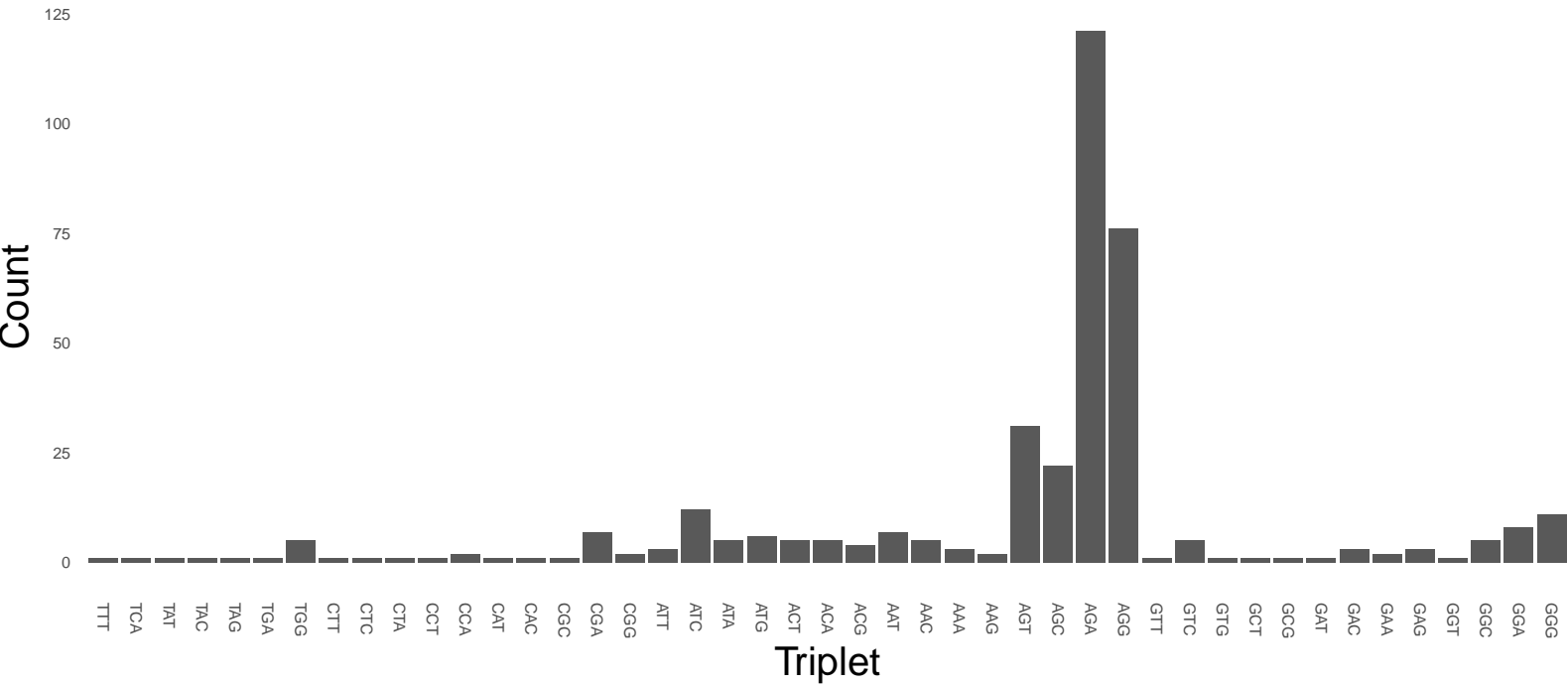
Gene IGHV4-61*02_A234G



Gene IGHV4-61*02_A234G

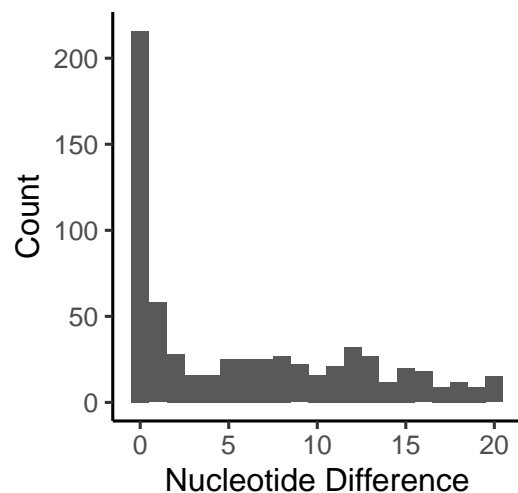


IGHV4-61*02_A234G- Final 3 nucleotides as a triplet



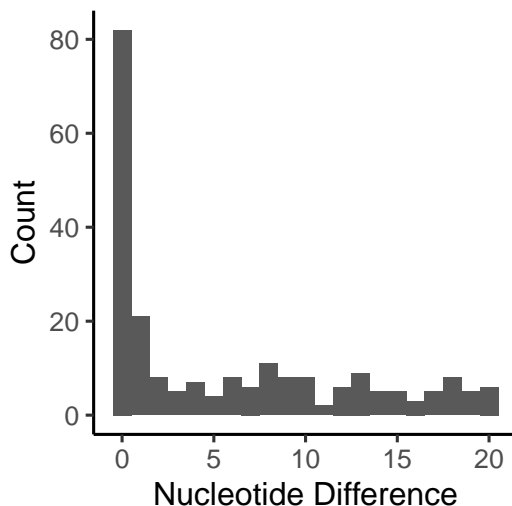
IGHV1-2*02

732 sequences assigned
216 (29.5%) exact matches, in which:
112 unique CDR3
6 unique J



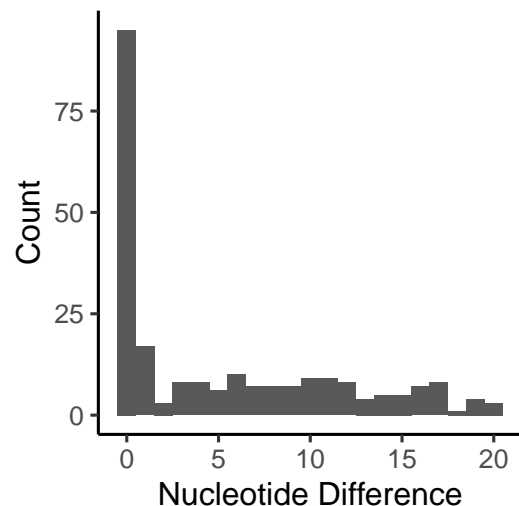
IGHV1-18*01

248 sequences assigned
82 (33.1%) exact matches, in which:
80 unique CDR3
5 unique J



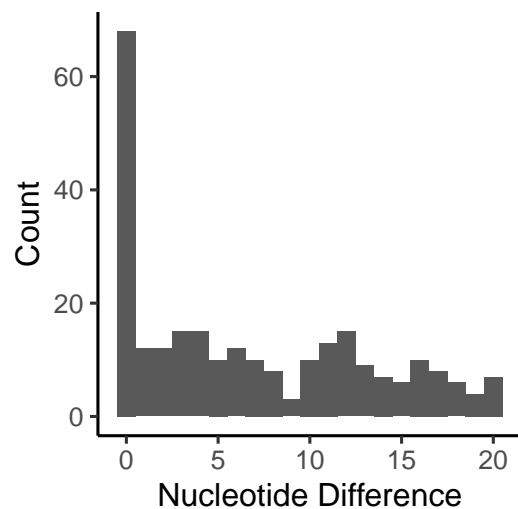
IGHV1-46*03

252 sequences assigned
95 (37.7%) exact matches, in which:
95 unique CDR3
7 unique J



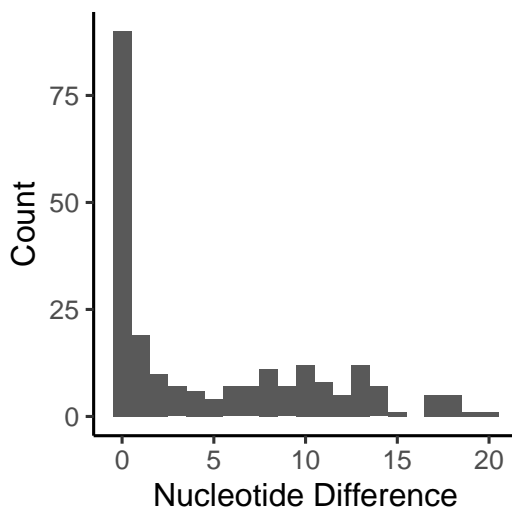
IGHV1-3*01

305 sequences assigned
68 (22.3%) exact matches, in which:
68 unique CDR3
4 unique J



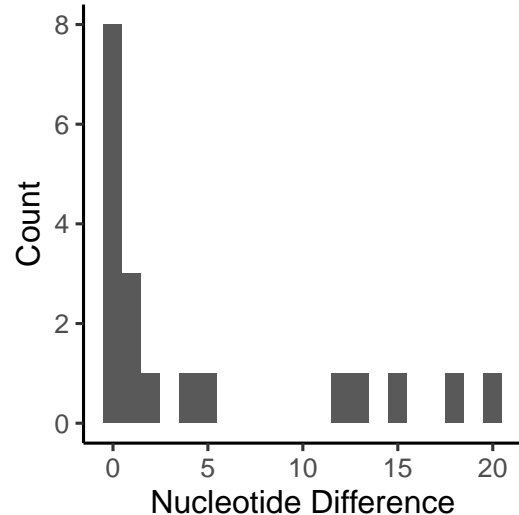
IGHV1-18*04

249 sequences assigned
90 (36.1%) exact matches, in which:
90 unique CDR3
6 unique J



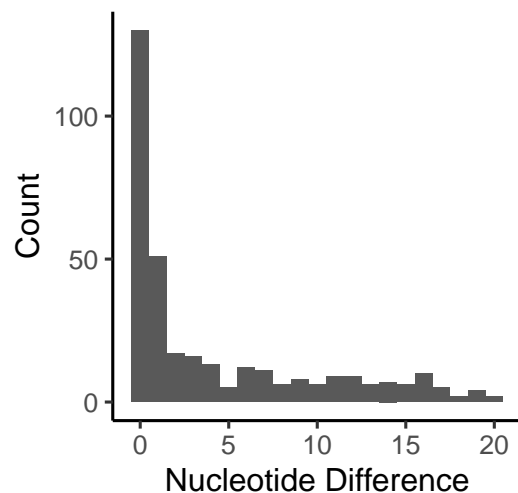
IGHV1-58*02

27 sequences assigned
8 (29.6%) exact matches, in which:
8 unique CDR3
3 unique J



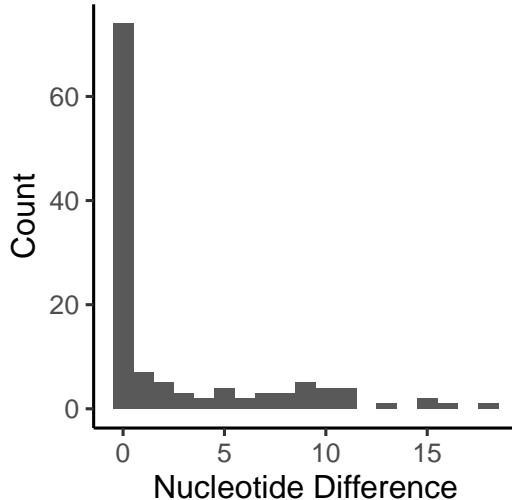
IGHV1-8*01

360 sequences assigned
130 (36.1%) exact matches, in which:
126 unique CDR3
6 unique J



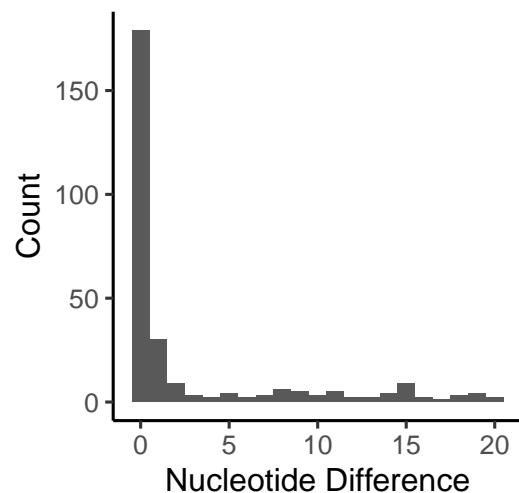
IGHV1-24*01

132 sequences assigned
74 (56.1%) exact matches, in which:
73 unique CDR3
6 unique J



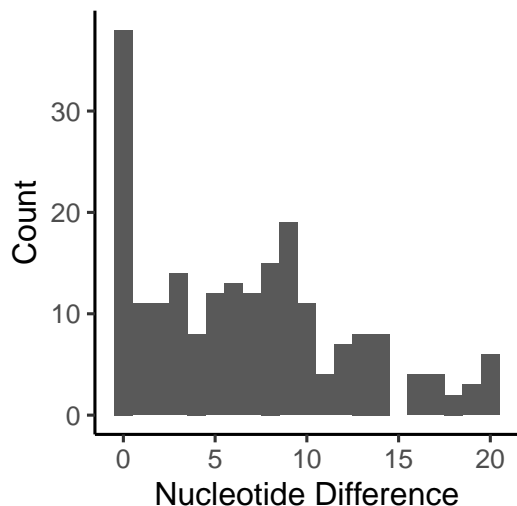
IGHV1-69*04

333 sequences assigned
179 (53.8%) exact matches, in which:
176 unique CDR3
6 unique J



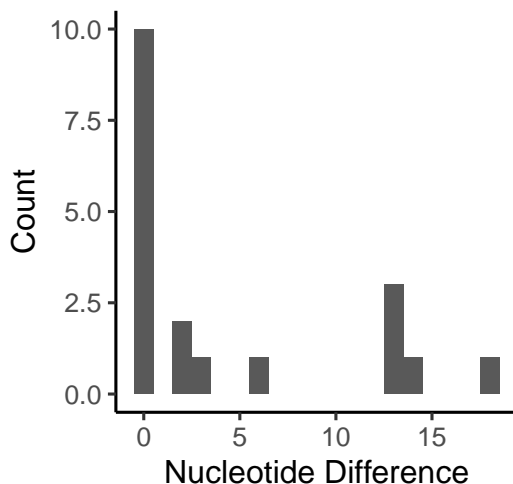
IGHV2-5*01

230 sequences assigned
38 (16.5%) exact matches, in which:
38 unique CDR3
4 unique J



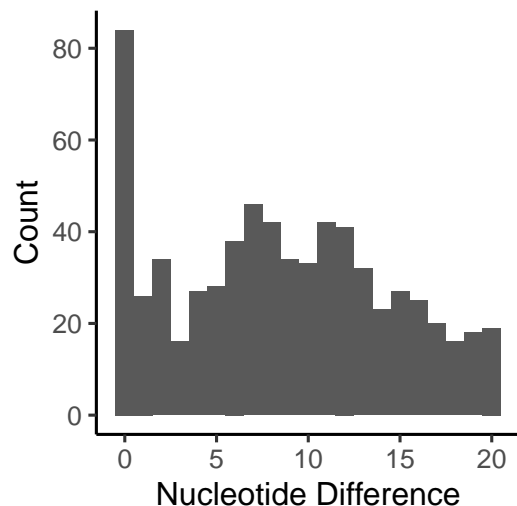
IGHV2-70*01

26 sequences assigned
10 (38.5%) exact matches, in which:
10 unique CDR3
4 unique J



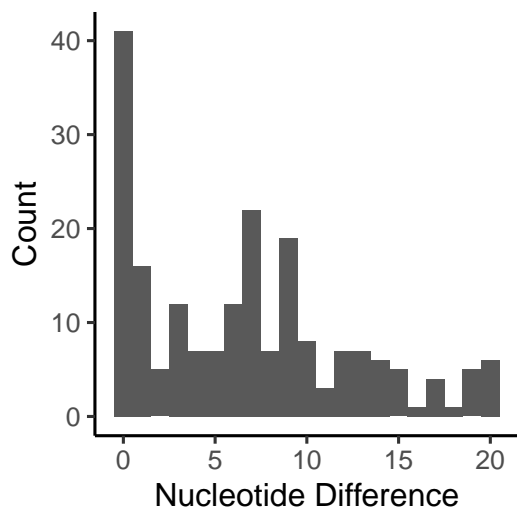
IGHV3-7*03

778 sequences assigned
84 (10.8%) exact matches, in which:
83 unique CDR3
6 unique J



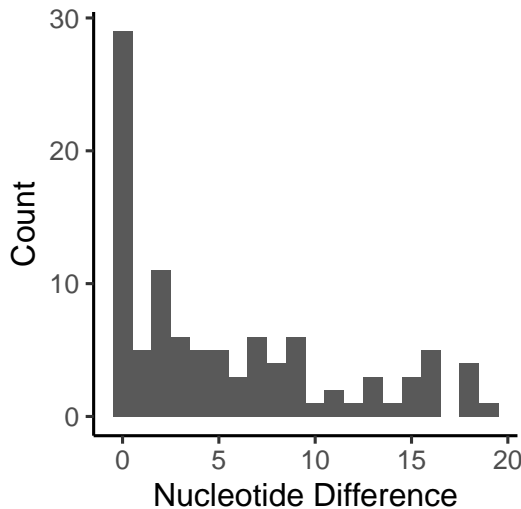
IGHV2-5*02

236 sequences assigned
41 (17.4%) exact matches, in which:
41 unique CDR3
5 unique J



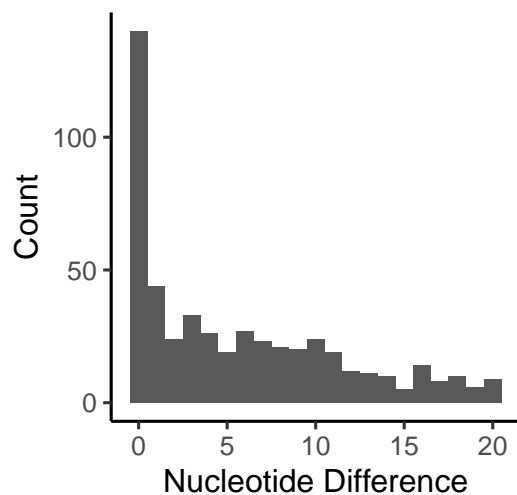
IGHV2-70*15

112 sequences assigned
29 (25.9%) exact matches, in which:
28 unique CDR3
5 unique J



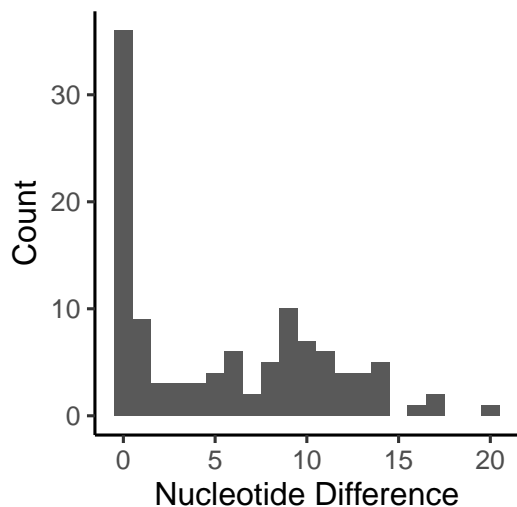
IGHV3-9*01

557 sequences assigned
140 (25.1%) exact matches, in which:
140 unique CDR3
6 unique J



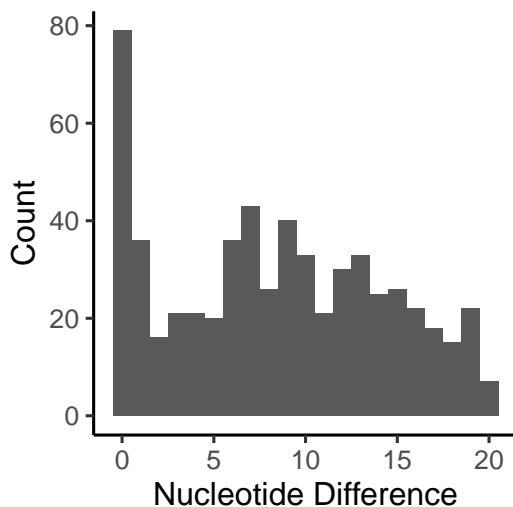
IGHV2-26*01

118 sequences assigned
36 (30.5%) exact matches, in which:
36 unique CDR3
7 unique J



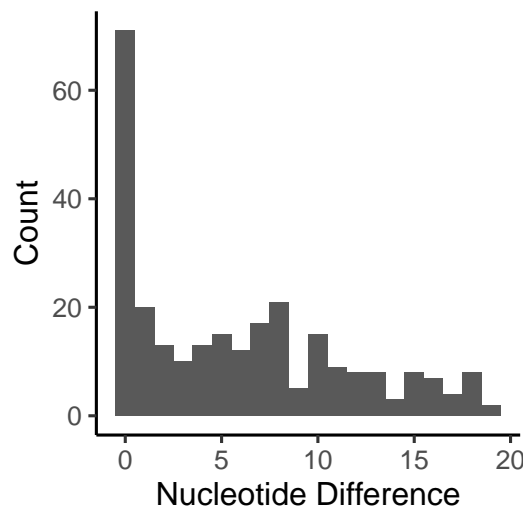
IGHV3-7*01

672 sequences assigned
79 (11.8%) exact matches, in which:
79 unique CDR3
6 unique J



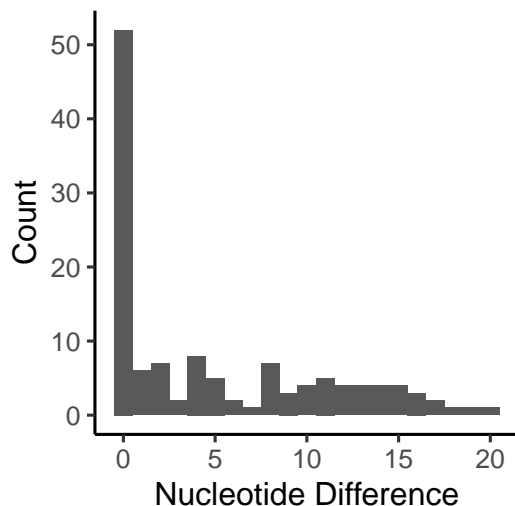
IGHV3-11*01

289 sequences assigned
71 (24.6%) exact matches, in which:
71 unique CDR3
5 unique J



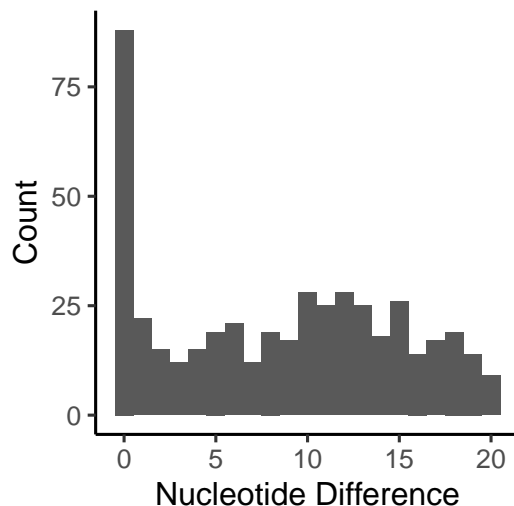
IGHV3-11*06

153 sequences assigned
52 (34%) exact matches, in which:
49 unique CDR3
5 unique J



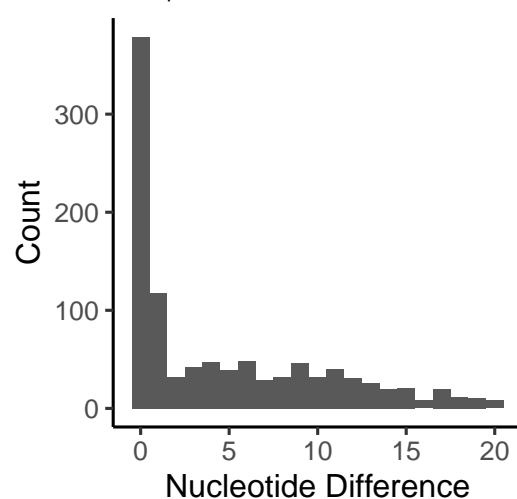
IGHV3-15*01

572 sequences assigned
88 (15.4%) exact matches, in which:
88 unique CDR3
7 unique J



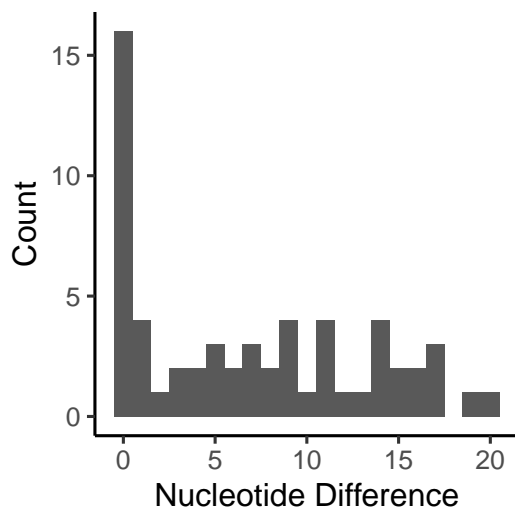
IGHV3-21*01

1125 sequences assigned
379 (33.7%) exact matches, in which:
372 unique CDR3
6 unique J



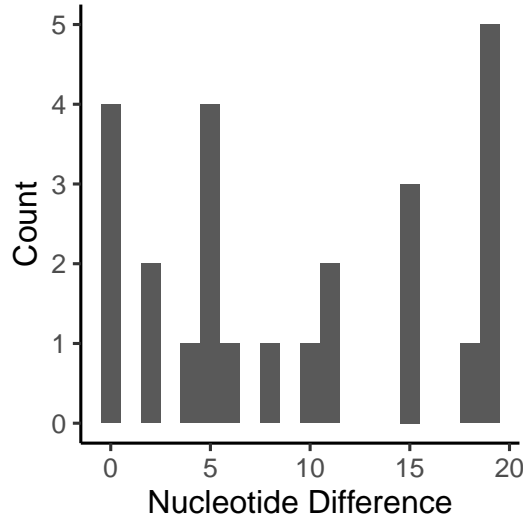
IGHV3-13*01

67 sequences assigned
16 (23.9%) exact matches, in which:
16 unique CDR3
4 unique J



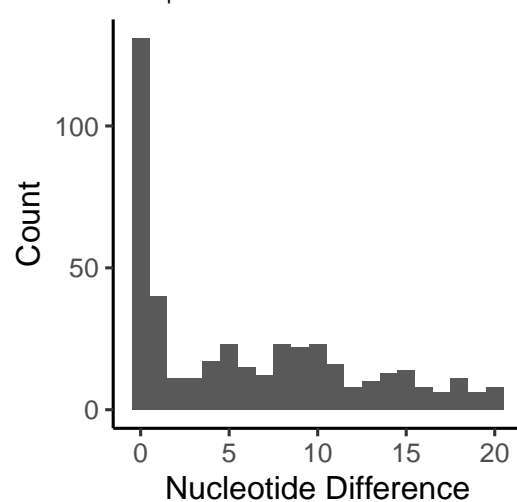
IGHV3-20*01

25 sequences assigned
4 (16%) exact matches, in which:
4 unique CDR3
4 unique J



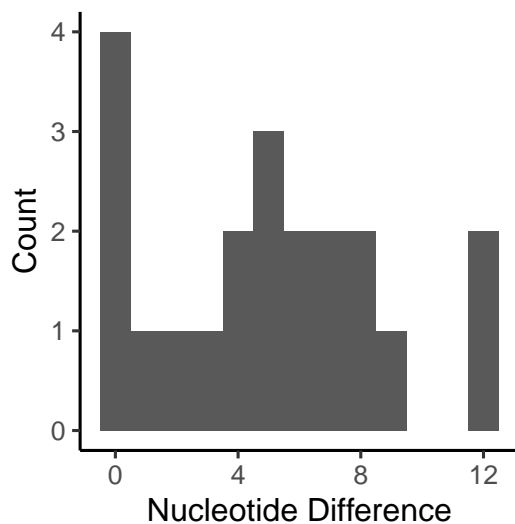
IGHV3-30-3*01

488 sequences assigned
131 (26.8%) exact matches, in which:
128 unique CDR3
5 unique J



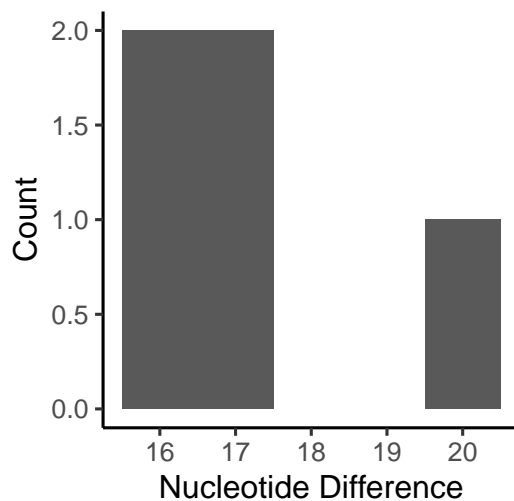
IGHV3-13*05

21 sequences assigned
4 (19%) exact matches, in which:
4 unique CDR3
3 unique J



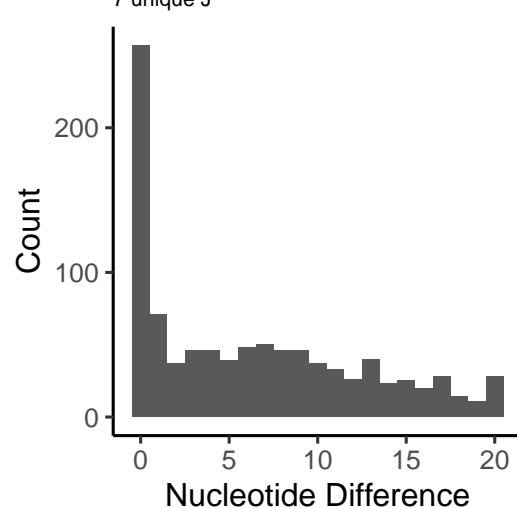
IGHV3-20*04

13 sequences assigned
No exact matches.



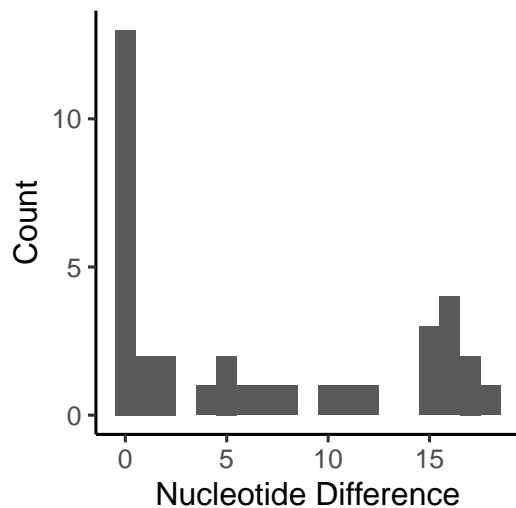
IGHV3-33*01

1081 sequences assigned
257 (23.8%) exact matches, in which:
252 unique CDR3
7 unique J



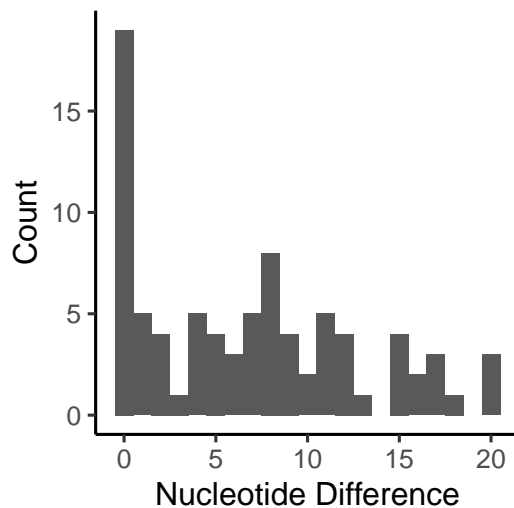
IGHV3-43*01

45 sequences assigned
13 (28.9%) exact matches, in which:
13 unique CDR3
6 unique J



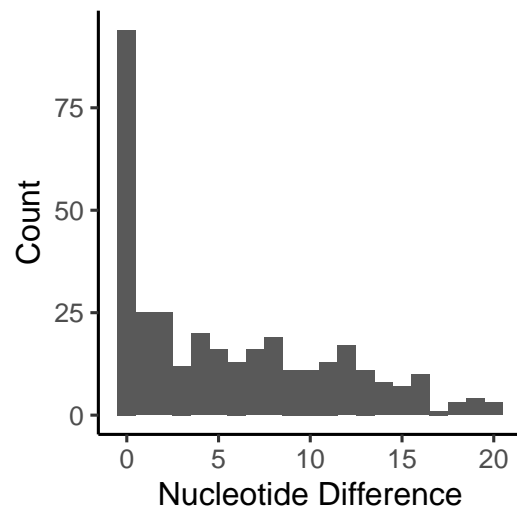
IGHV3-53*02

90 sequences assigned
19 (21.1%) exact matches, in which:
18 unique CDR3
3 unique J



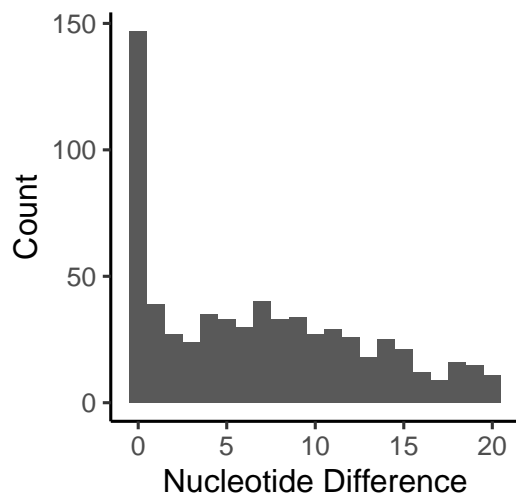
IGHV3-66*01

407 sequences assigned
94 (23.1%) exact matches, in which:
93 unique CDR3
6 unique J



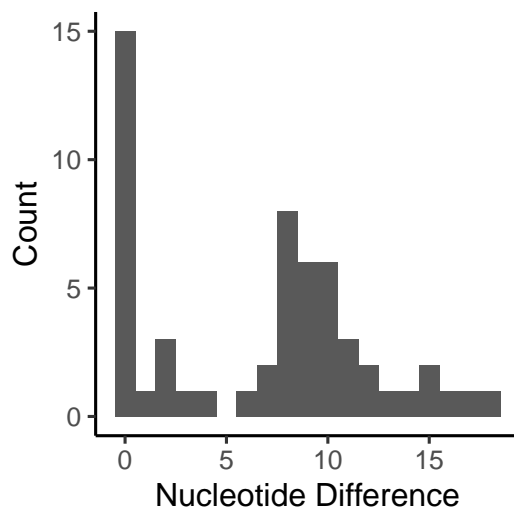
IGHV3-48*01

735 sequences assigned
147 (20%) exact matches, in which:
145 unique CDR3
7 unique J



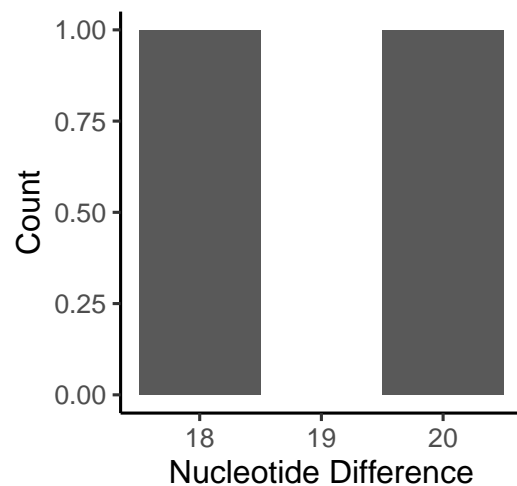
IGHV3-64*01

57 sequences assigned
15 (26.3%) exact matches, in which:
15 unique CDR3
4 unique J



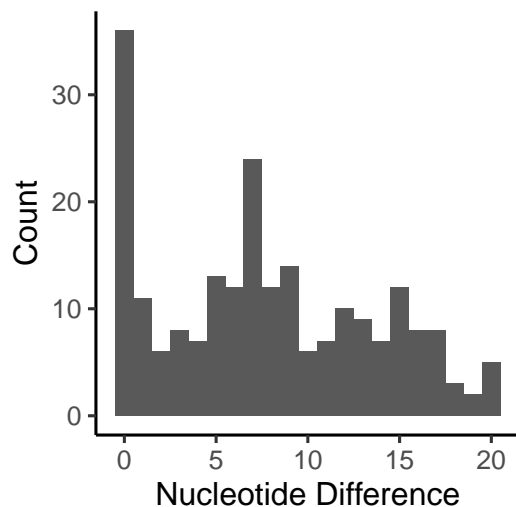
IGHV3-69-1*01

5 sequences assigned
No exact matches.



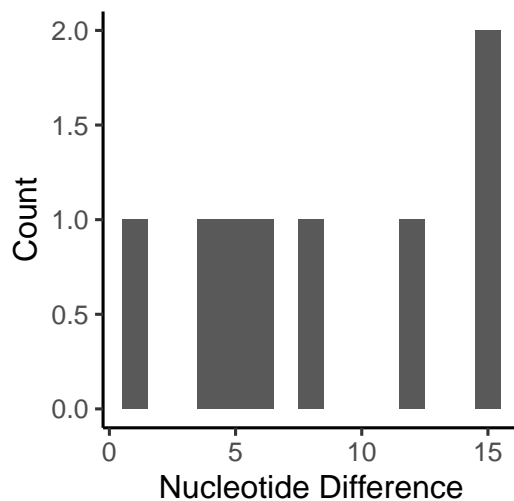
IGHV3-49*03

248 sequences assigned
36 (14.5%) exact matches, in which:
36 unique CDR3
6 unique J



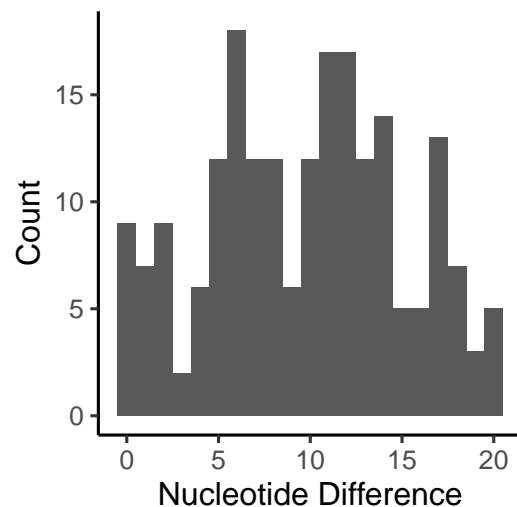
IGHV3-64*07

12 sequences assigned
No exact matches.



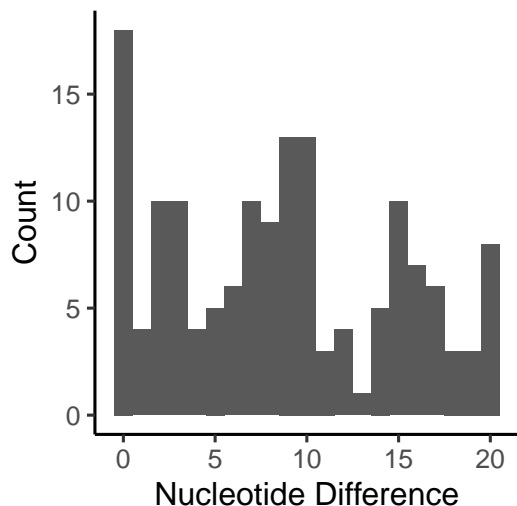
IGHV3-72*01

226 sequences assigned
9 (4%) exact matches, in which:
9 unique CDR3
4 unique J



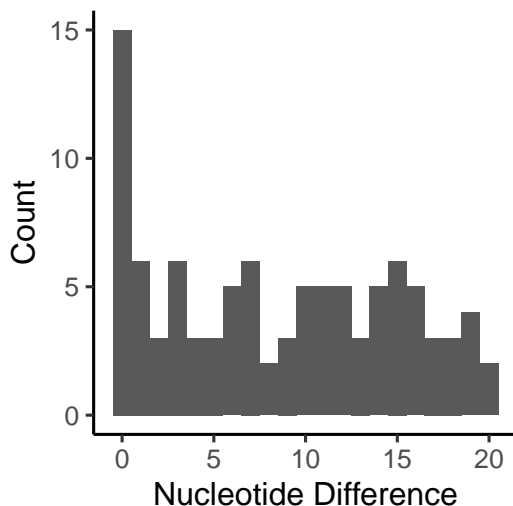
IGHV3-73*01

200 sequences assigned
18 (9%) exact matches, in which:
18 unique CDR3
4 unique J



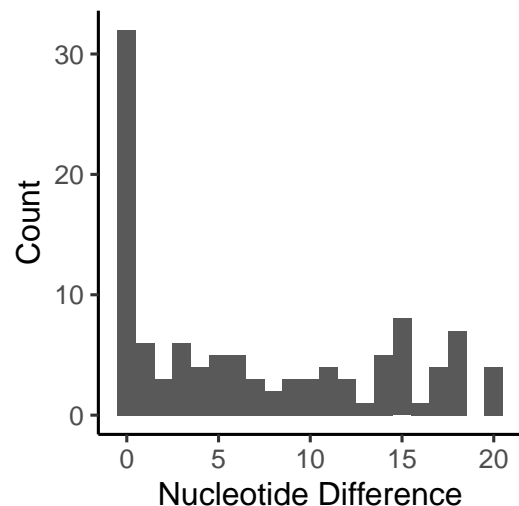
IGHV3-64D*06

105 sequences assigned
15 (14.3%) exact matches, in which:
15 unique CDR3
3 unique J



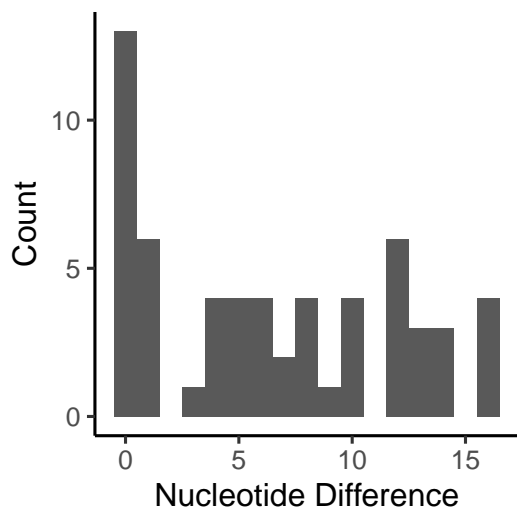
IGHV4-30-4*01

131 sequences assigned
32 (24.4%) exact matches, in which:
32 unique CDR3
5 unique J



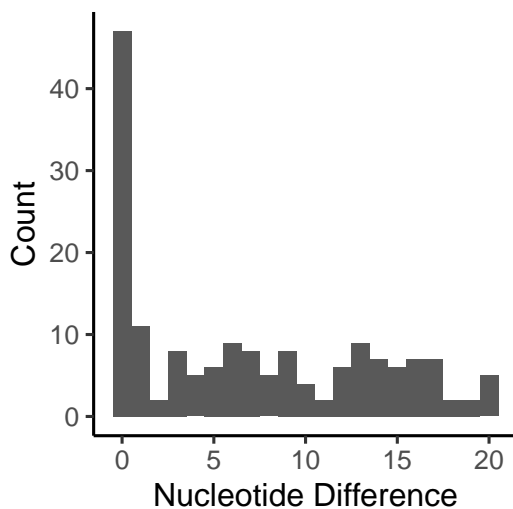
IGHV3-73*02

72 sequences assigned
13 (18.1%) exact matches, in which:
12 unique CDR3
3 unique J



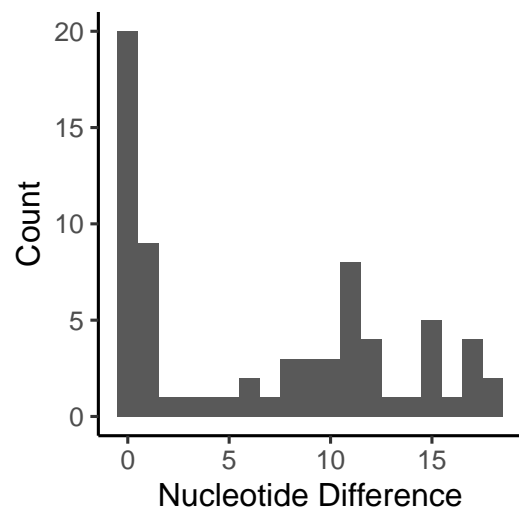
IGHV4-4*07

190 sequences assigned
47 (24.7%) exact matches, in which:
47 unique CDR3
4 unique J



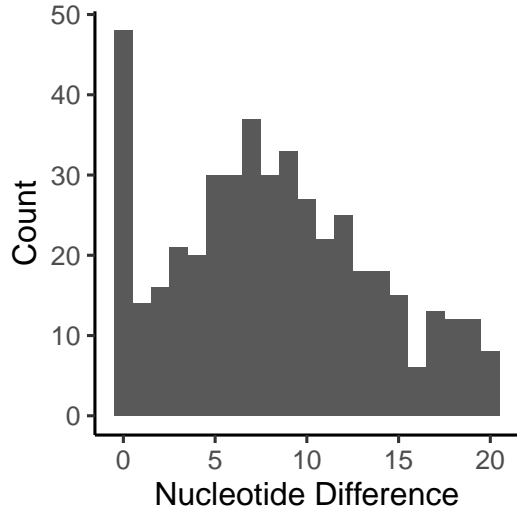
IGHV4-30-2*01

83 sequences assigned
20 (24.1%) exact matches, in which:
19 unique CDR3
6 unique J



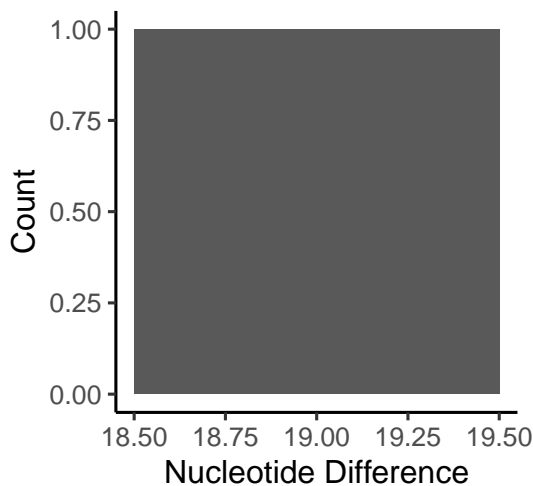
IGHV3-74*01

522 sequences assigned
48 (9.2%) exact matches, in which:
46 unique CDR3
5 unique J



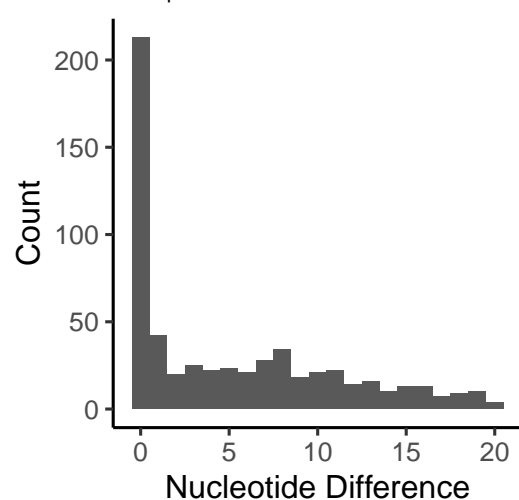
IGHV4-28*05

1 sequences assigned
No exact matches.



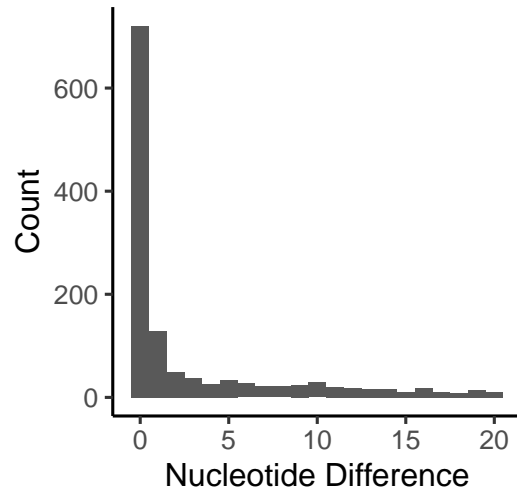
IGHV4-31*03

653 sequences assigned
213 (32.6%) exact matches, in which:
213 unique CDR3
7 unique J



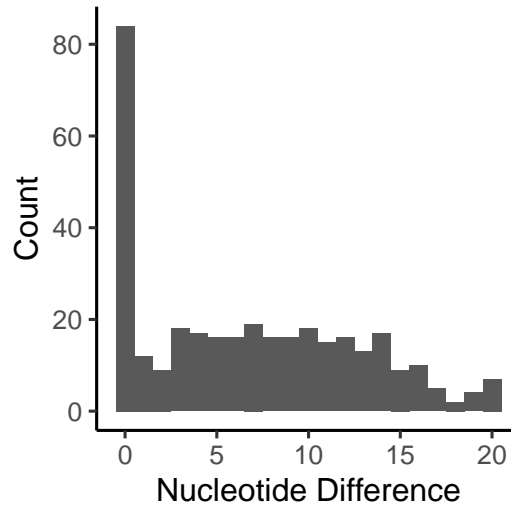
IGHV4-34*01

1376 sequences assigned
721 (52.4%) exact matches, in which:
705 unique CDR3
7 unique J



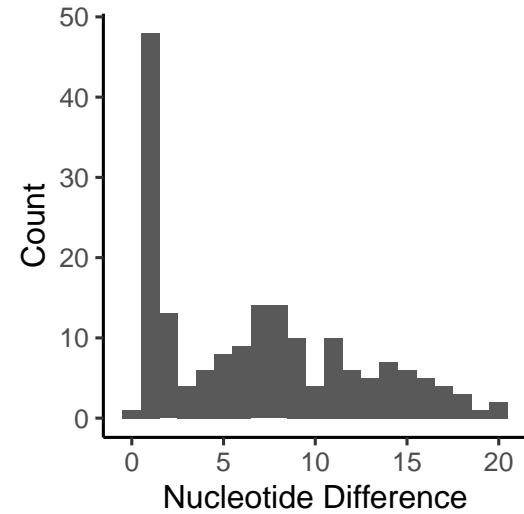
IGHV4-59*08

394 sequences assigned
84 (21.3%) exact matches, in which:
84 unique CDR3
6 unique J



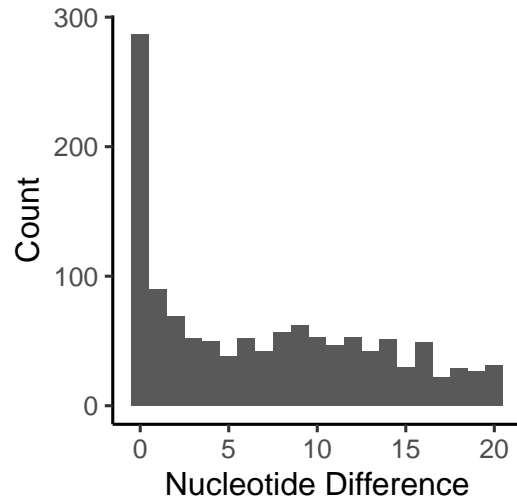
IGHV5-51*01

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



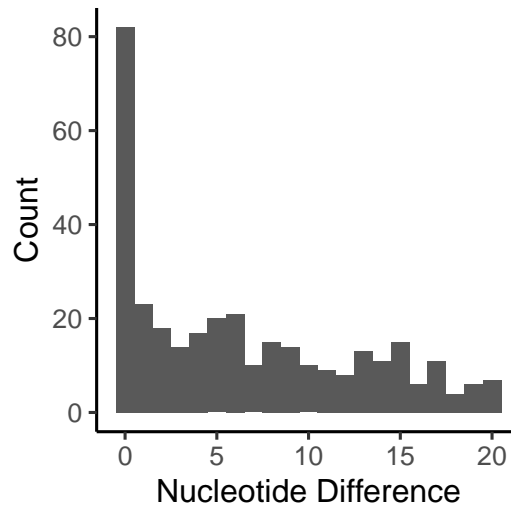
IGHV4-39*01

1385 sequences assigned
287 (20.7%) exact matches, in which:
281 unique CDR3
7 unique J



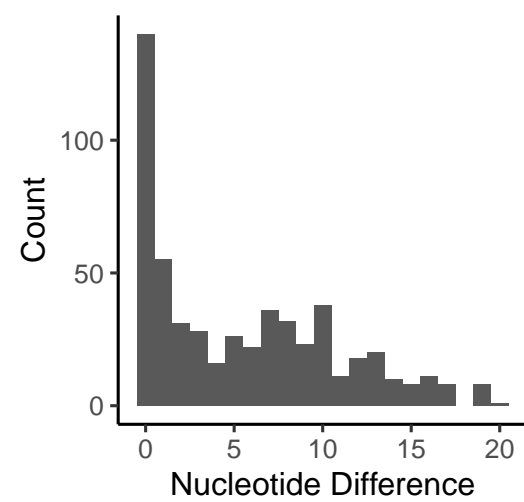
IGHV4-61*02_A234G

379 sequences assigned
82 (21.6%) exact matches, in which:
79 unique CDR3
6 unique J



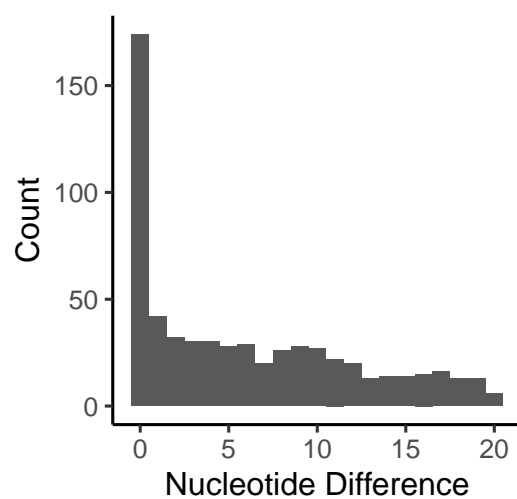
IGHV5-51*03

585 sequences assigned
140 (23.9%) exact matches, in which:
136 unique CDR3
7 unique J



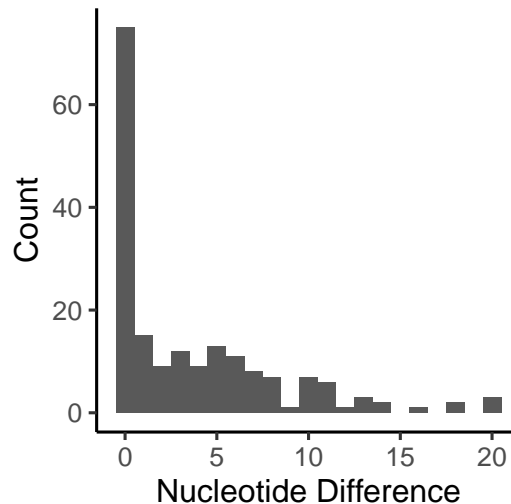
IGHV4-59*01

686 sequences assigned
174 (25.4%) exact matches, in which:
174 unique CDR3
7 unique J



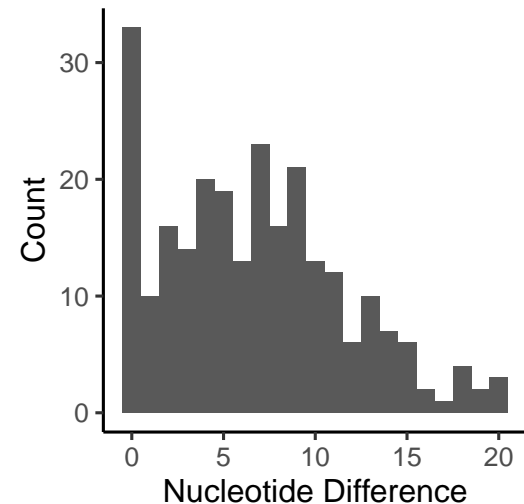
IGHV5-10-1*03

224 sequences assigned
75 (33.5%) exact matches, in which:
75 unique CDR3
5 unique J



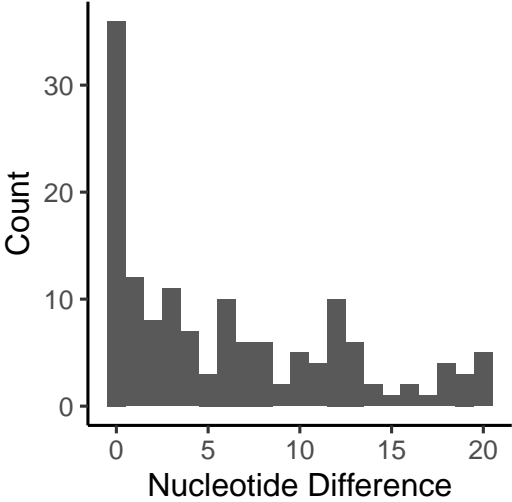
IGHV6-1*01

263 sequences assigned
33 (12.5%) exact matches, in which:
32 unique CDR3
5 unique J

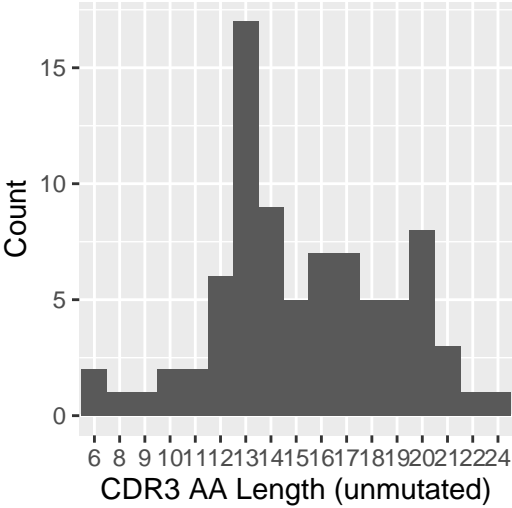


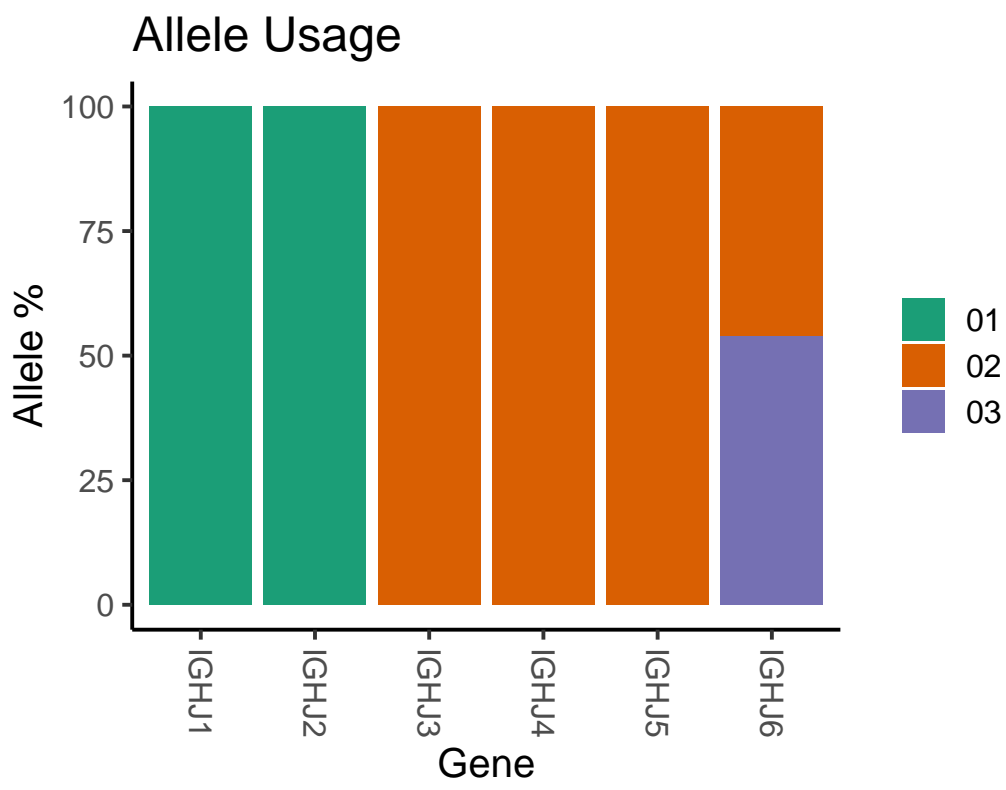
IGHV7-4-1*02

159 sequences assigned
36 (22.6%) exact matches, in which:
36 unique CDR3
6 unique J



IGHV4-61*02_A234G





Sequence Count by IGHJ6 allele usage

