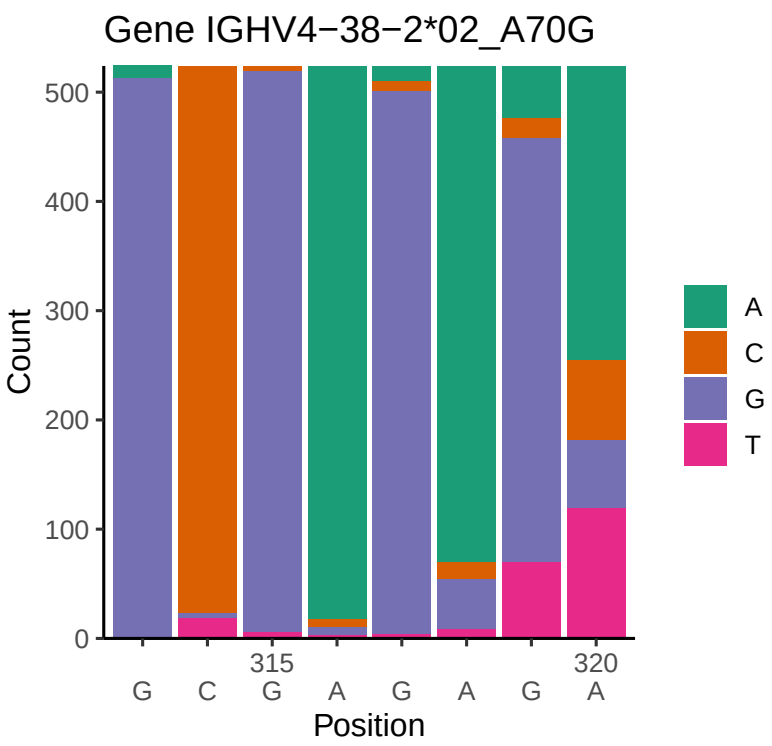
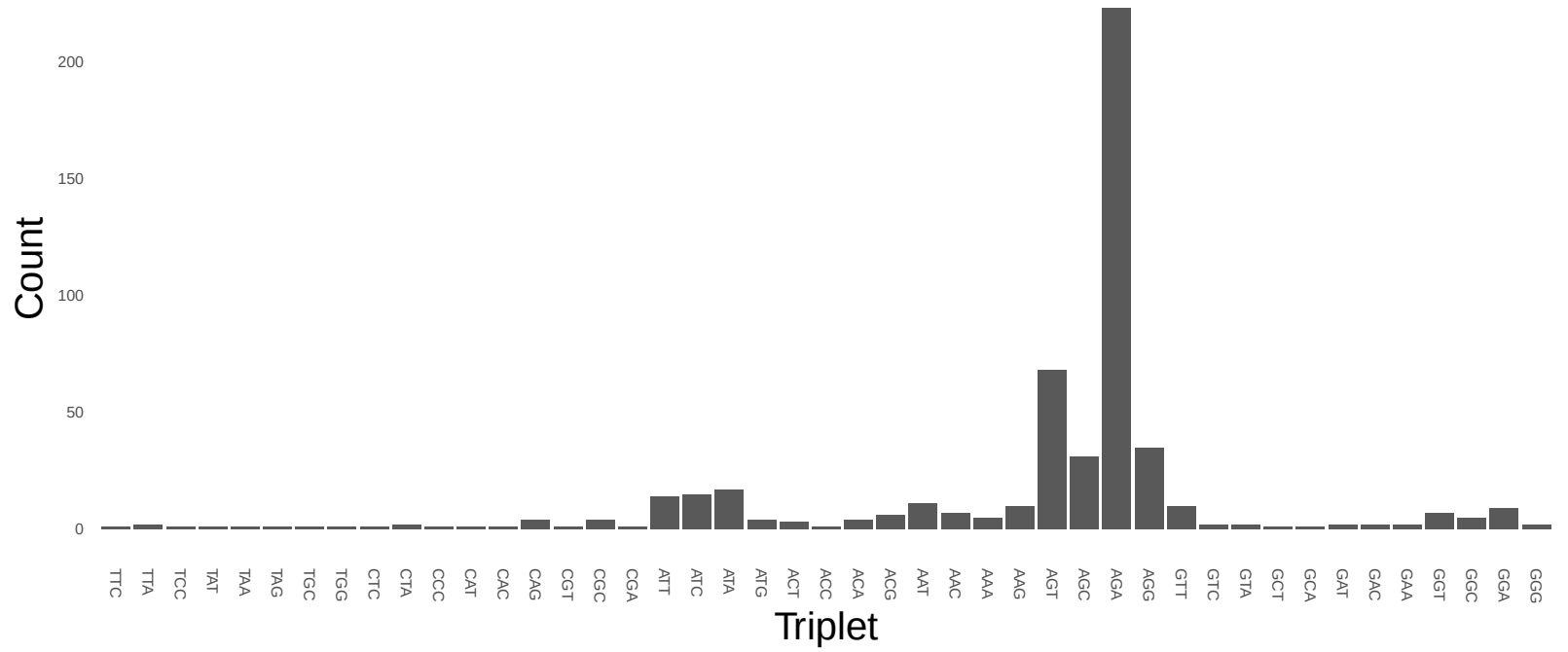

Gene IGHV4−38−2*02_A70G
Count
500
400
300
200
100
0
G
C
315
G
A
G
A
G
320
A
Position
A
C
G
T

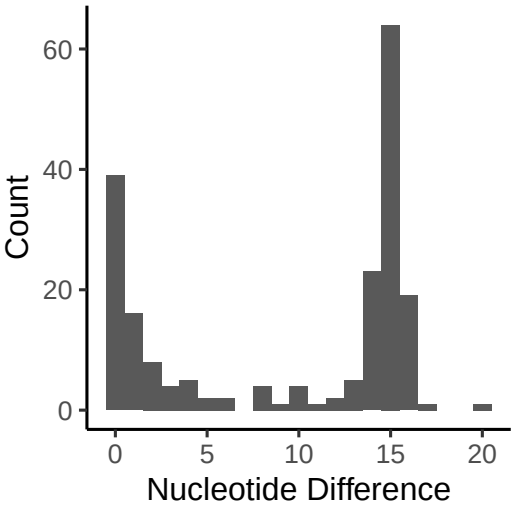
Gene IGHV4−38−2*02_A70G
Count
0
100
200
300
400
500
Position
A
C
G
T
N
X
.
–

IGHV4−38−2*02_A70G− Final 3 nucleotides as a triplet



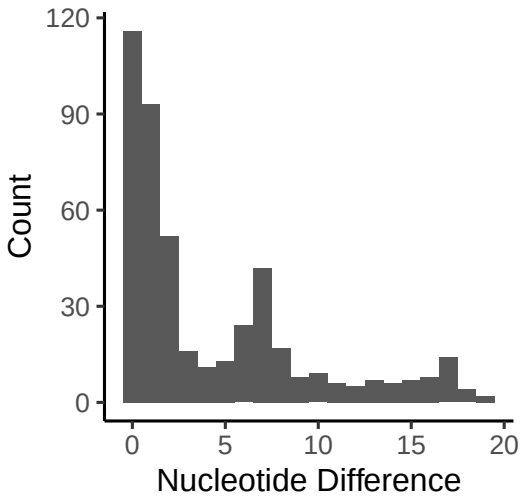
IGHV1−2*04

210 sequences assigned
39 (18.6%) exact matches, in which:
34 unique CDR3
5 unique J



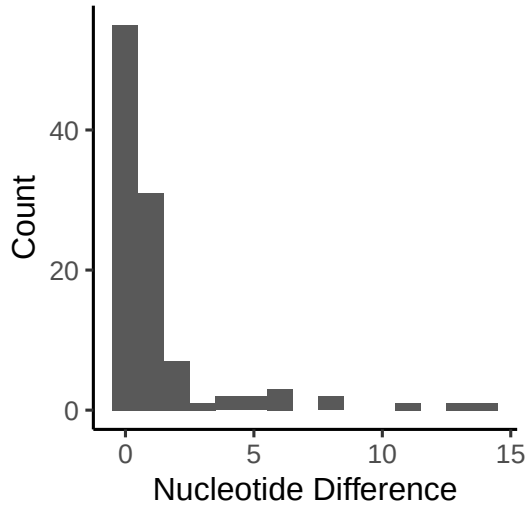
IGHV1−8*01

464 sequences assigned
116 (25%) exact matches, in which:
96 unique CDR3
4 unique J



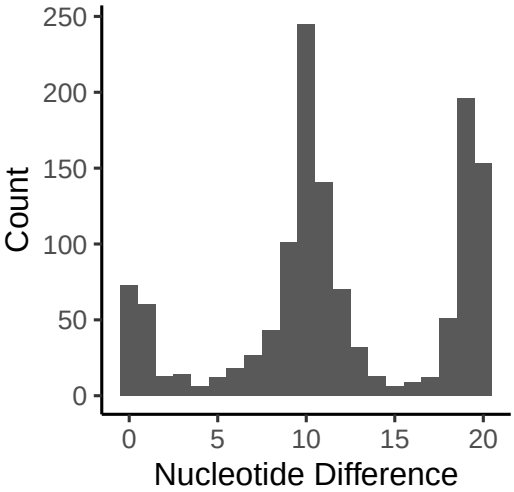
IGHV1−24*01

106 sequences assigned
55 (51.9%) exact matches, in which:
51 unique CDR3
5 unique J



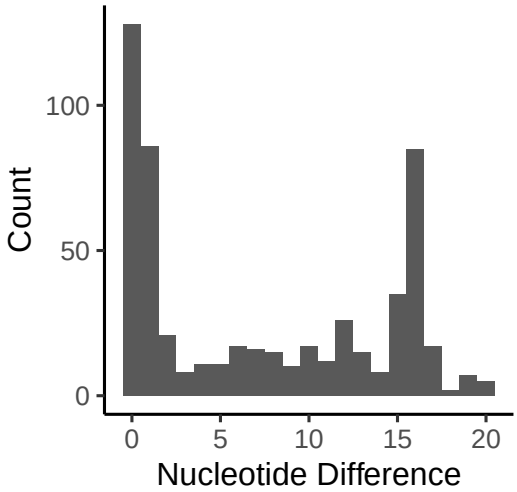
IGHV1−2*06

1367 sequences assigned
73 (5.3%) exact matches, in which:
67 unique CDR3
4 unique J



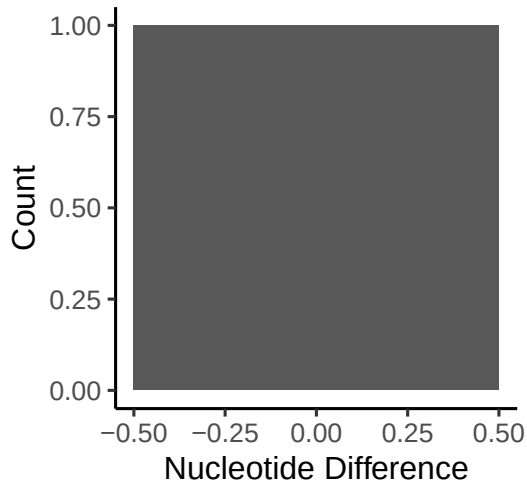
IGHV1−18*01

611 sequences assigned
128 (20.9%) exact matches, in which:
119 unique CDR3
4 unique J



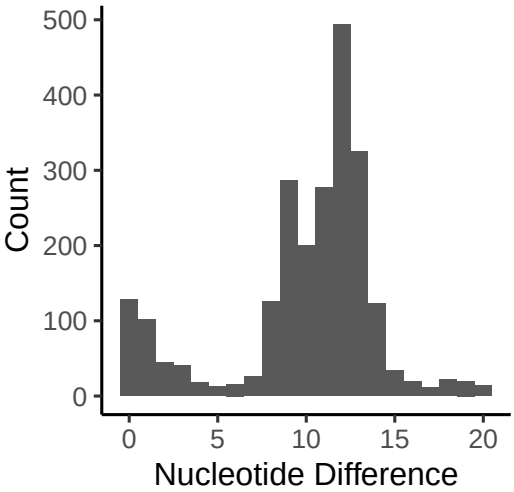
IGHV1−45*02

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



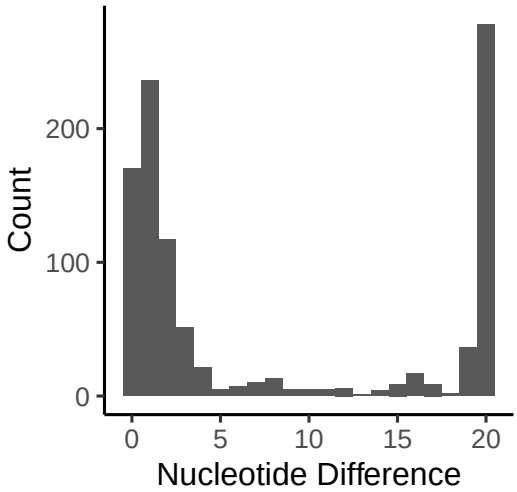
IGHV1−3*01

2405 sequences assigned
128 (5.3%) exact matches, in which:
121 unique CDR3
4 unique J



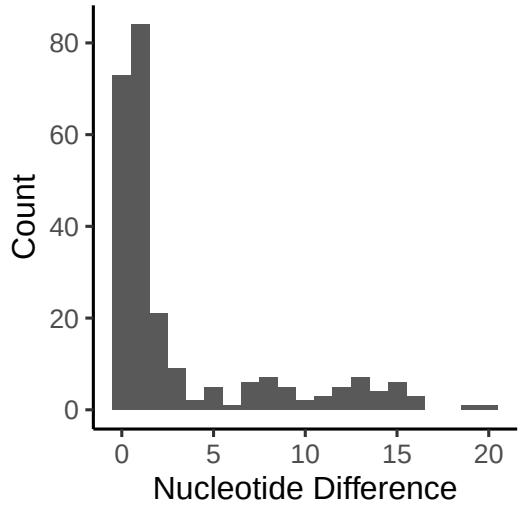
IGHV1−18*04

2545 sequences assigned
170 (6.7%) exact matches, in which:
130 unique CDR3
6 unique J



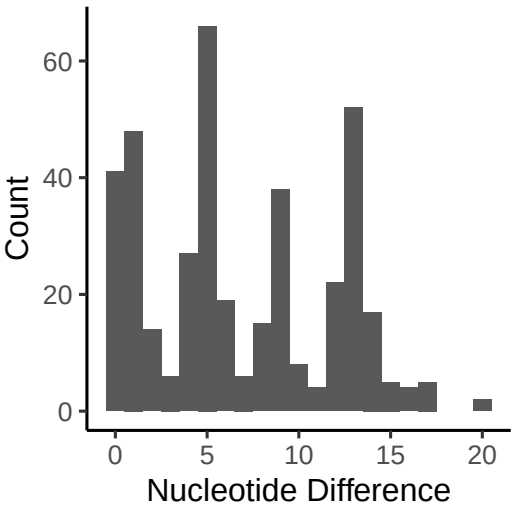
IGHV1−46*01

485 sequences assigned
73 (15.1%) exact matches, in which:
63 unique CDR3
4 unique J



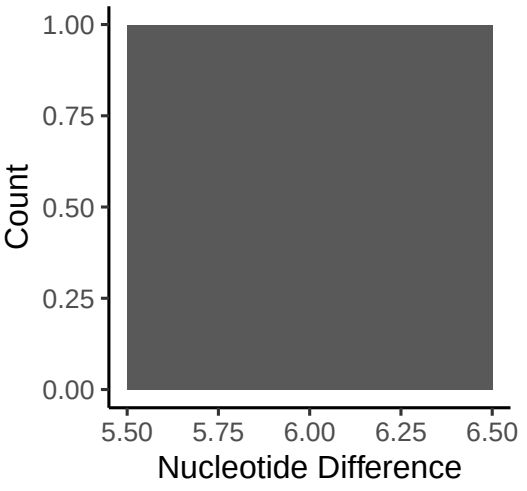
IGHV1−46*03

406 sequences assigned
41 (10.1%) exact matches, in which:
28 unique CDR3
5 unique J



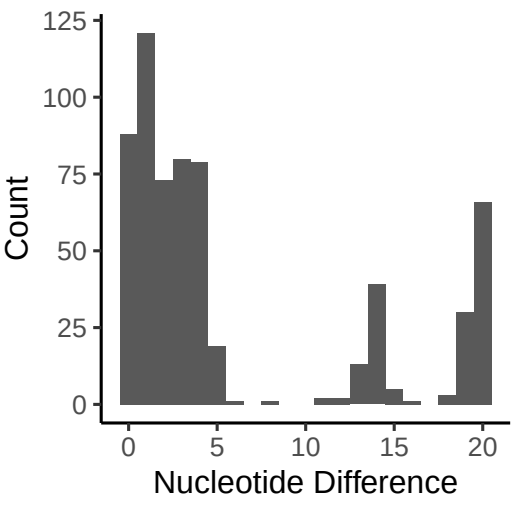
IGHV1−68*02

1 sequences assigned
No exact matches.



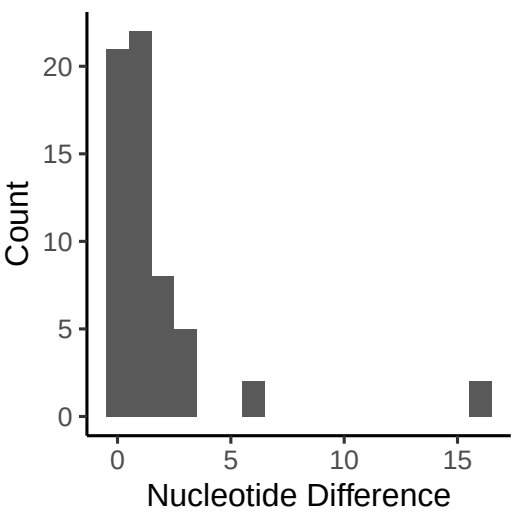
IGHV1−69*02

663 sequences assigned
88 (13.3%) exact matches, in which:
72 unique CDR3
6 unique J



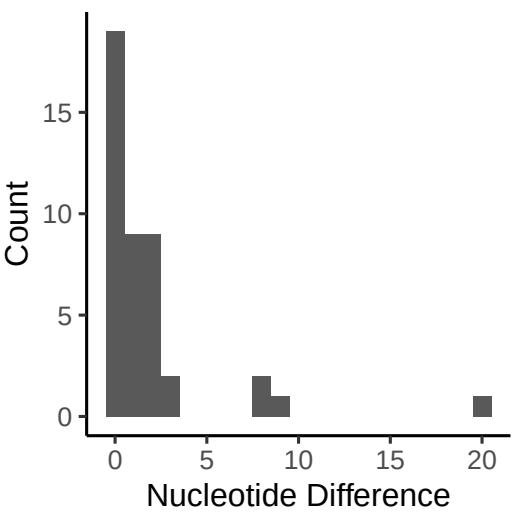
IGHV1−58*01

62 sequences assigned
21 (33.9%) exact matches, in which:
14 unique CDR3
3 unique J



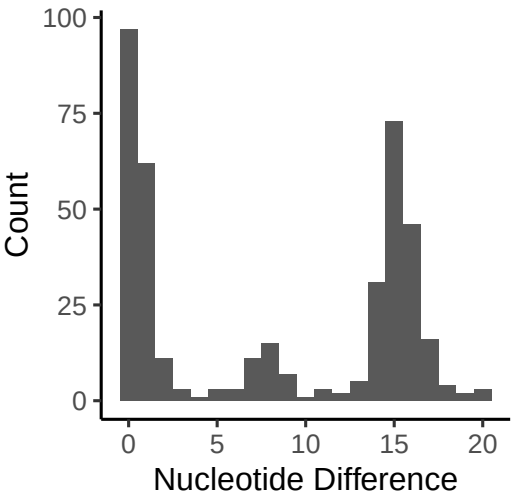
IGHV1−69−2*01

44 sequences assigned
19 (43.2%) exact matches, in which:
19 unique CDR3
4 unique J



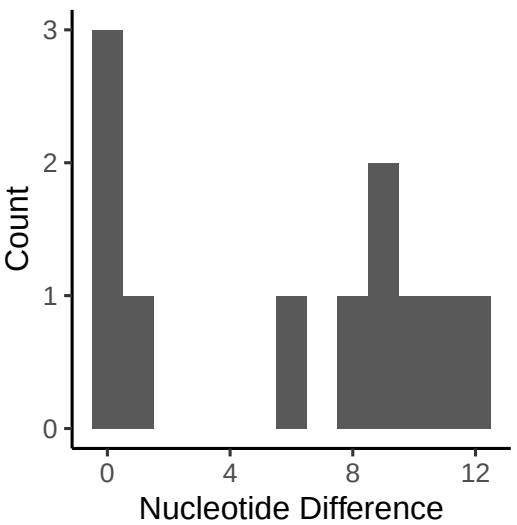
IGHV1−69*06

405 sequences assigned
97 (24%) exact matches, in which:
91 unique CDR3
4 unique J



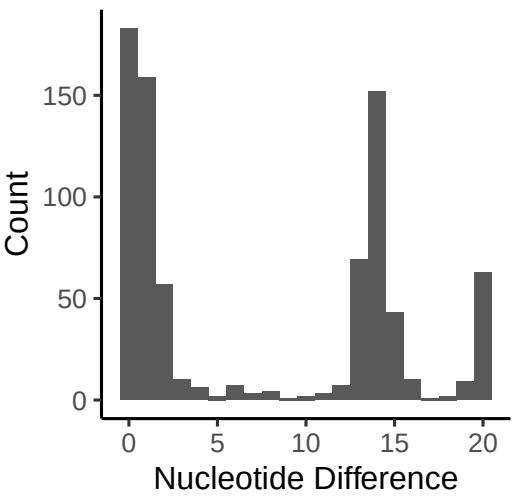
IGHV1−58*02

11 sequences assigned
3 (27.3%) exact matches, in which:
2 unique CDR3
2 unique J



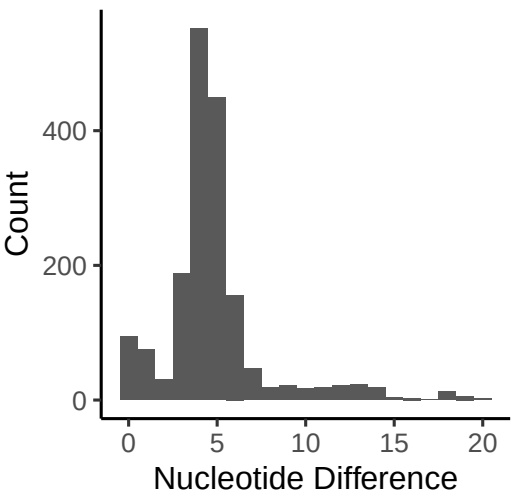
IGHV1−69*01

1334 sequences assigned
183 (13.7%) exact matches, in which:
159 unique CDR3
5 unique J



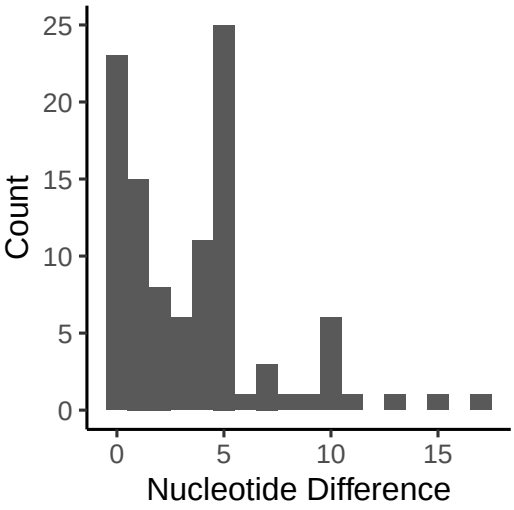
IGHV2−5*02

2021 sequences assigned
94 (4.7%) exact matches, in which:
86 unique CDR3
6 unique J



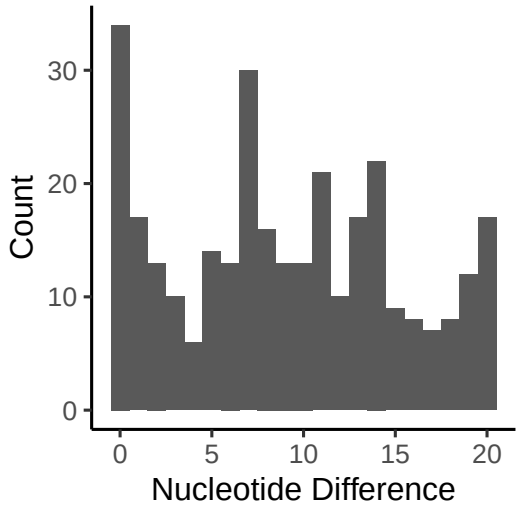
IGHV2−26*01

104 sequences assigned
23 (22.1%) exact matches, in which:
20 unique CDR3
4 unique J



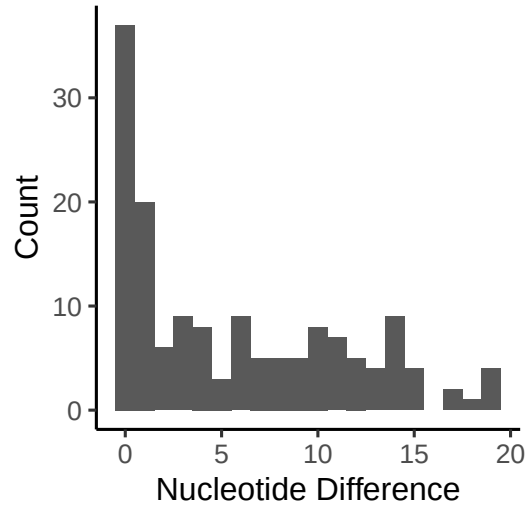
IGHV3−7*01

380 sequences assigned
34 (8.9%) exact matches, in which:
34 unique CDR3
4 unique J



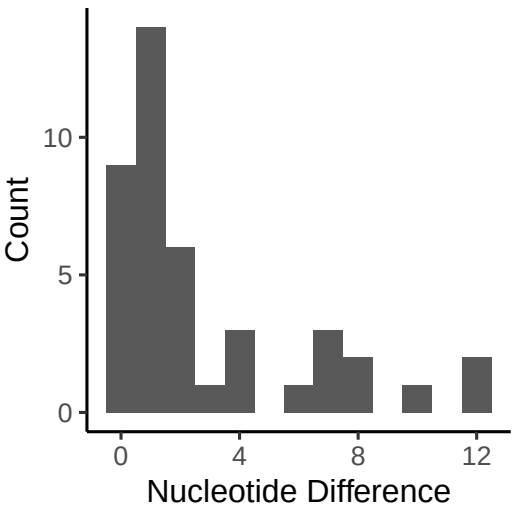
IGHV3−11*01

166 sequences assigned
37 (22.3%) exact matches, in which:
36 unique CDR3
5 unique J



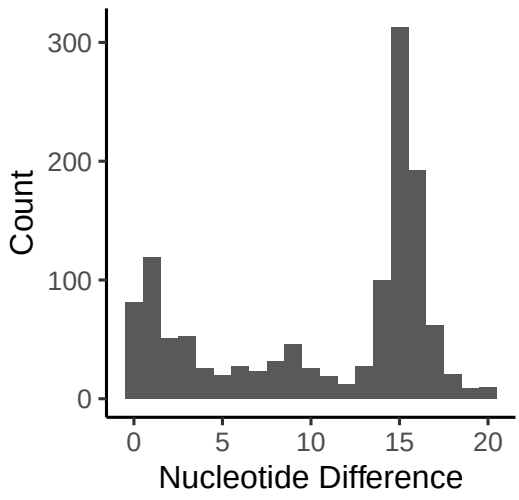
IGHV2−70*01

42 sequences assigned
9 (21.4%) exact matches, in which:
8 unique CDR3
4 unique J



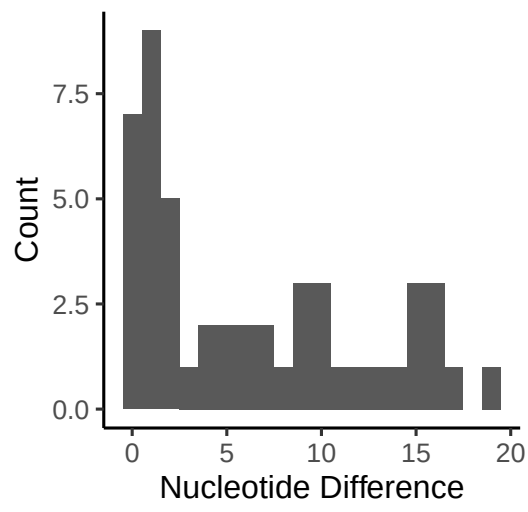
IGHV3−7*03

1300 sequences assigned
81 (6.2%) exact matches, in which:
66 unique CDR3
5 unique J



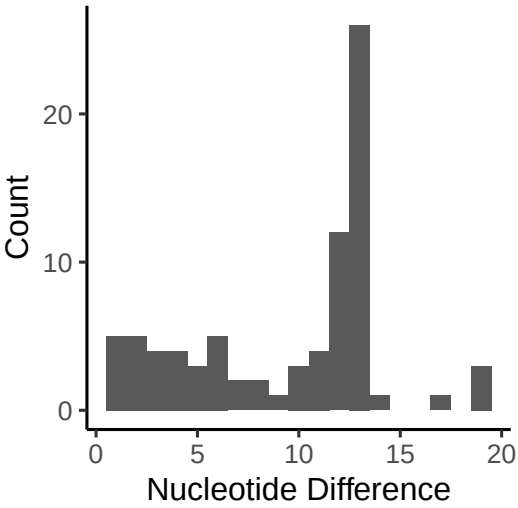
IGHV3−11*06

50 sequences assigned
7 (14%) exact matches, in which:
7 unique CDR3
3 unique J



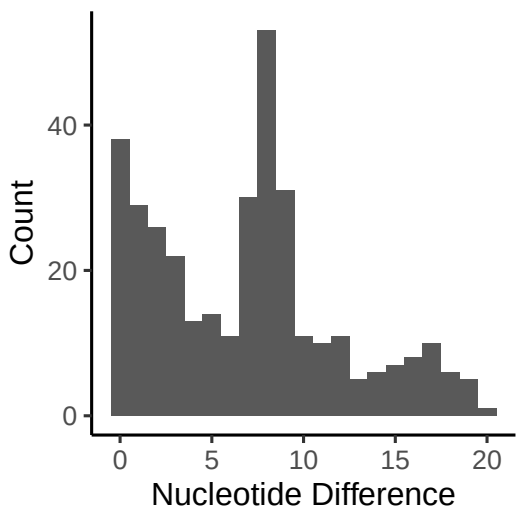
IGHV2−70*04

97 sequences assigned
No exact matches.



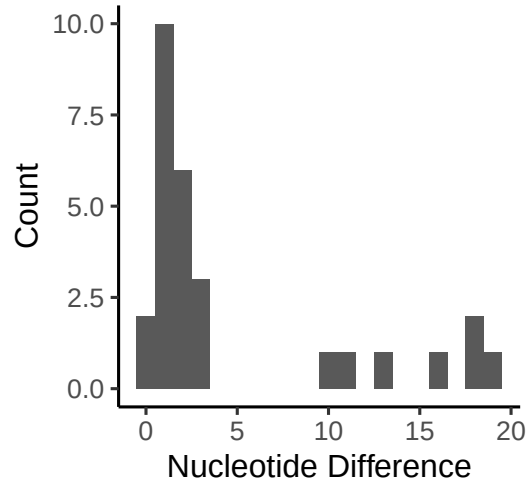
IGHV3−9*01

398 sequences assigned
38 (9.5%) exact matches, in which:
37 unique CDR3
5 unique J



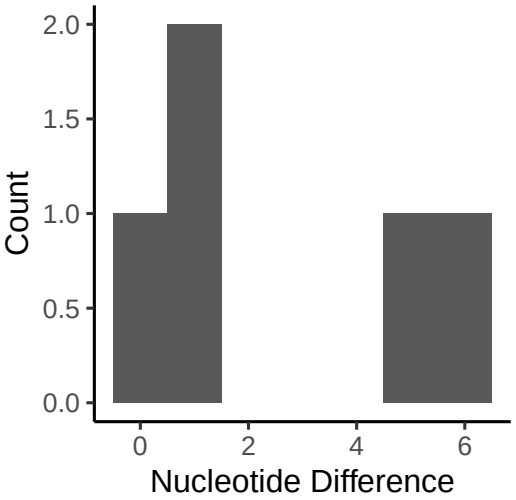
IGHV3−13*01

35 sequences assigned
2 (5.7%) exact matches, in which:
2 unique CDR3
1 unique J



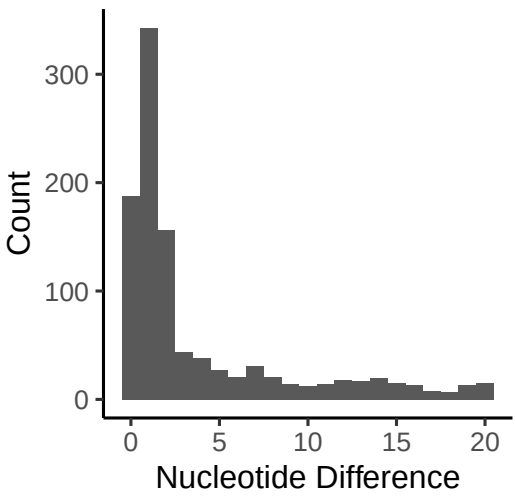
IGHV3−13*05

5 sequences assigned
1 (20%) exact matches, in which:
1 unique CDR3
1 unique J



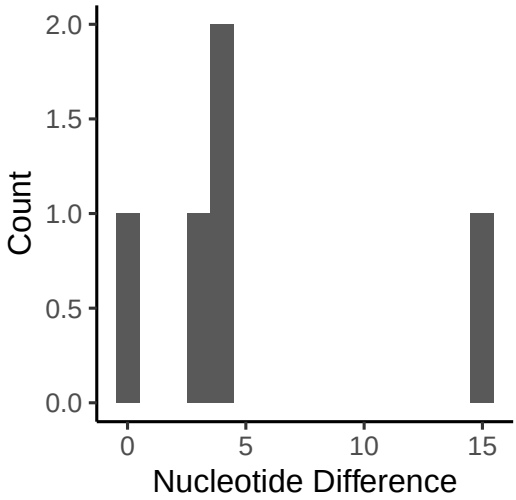
IGHV3−21*01

1377 sequences assigned
188 (13.7%) exact matches, in which:
127 unique CDR3
6 unique J



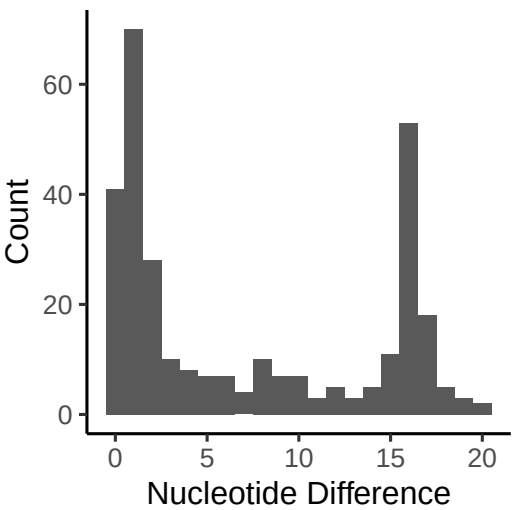
IGHV3−30−3*01

7 sequences assigned
1 (14.3%) exact matches, in which:
1 unique CDR3
0 unique J



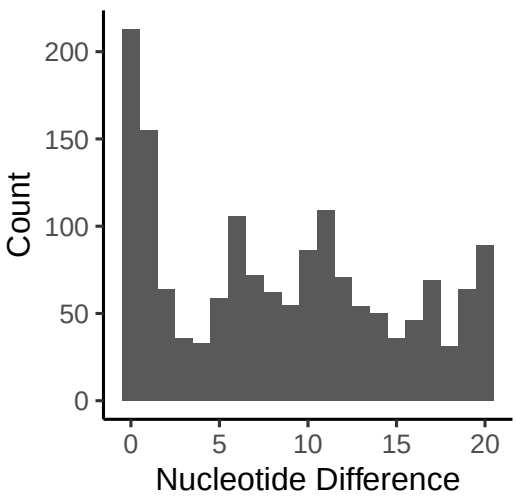
IGHV3−15*01

840 sequences assigned
41 (4.9%) exact matches, in which:
36 unique CDR3
5 unique J



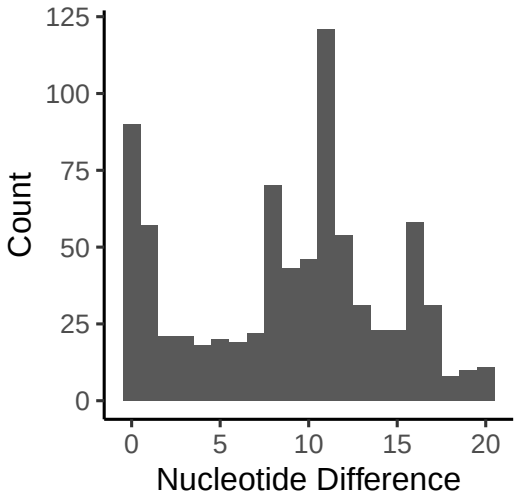
IGHV3−23*01

1771 sequences assigned
213 (12%) exact matches, in which:
203 unique CDR3
6 unique J



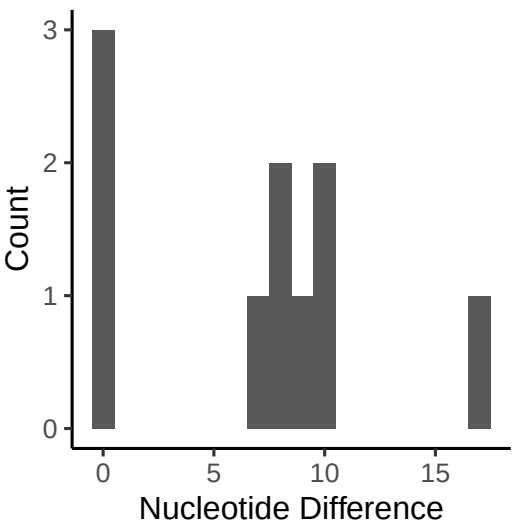
IGHV3−30*02

884 sequences assigned
90 (10.2%) exact matches, in which:
86 unique CDR3
4 unique J



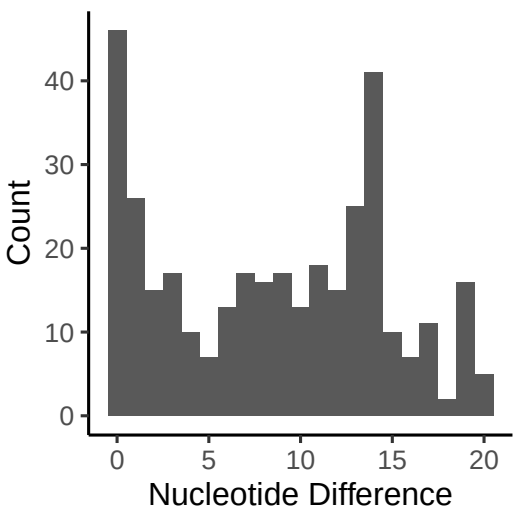
IGHV3−20*01

11 sequences assigned
3 (27.3%) exact matches, in which:
3 unique CDR3
2 unique J



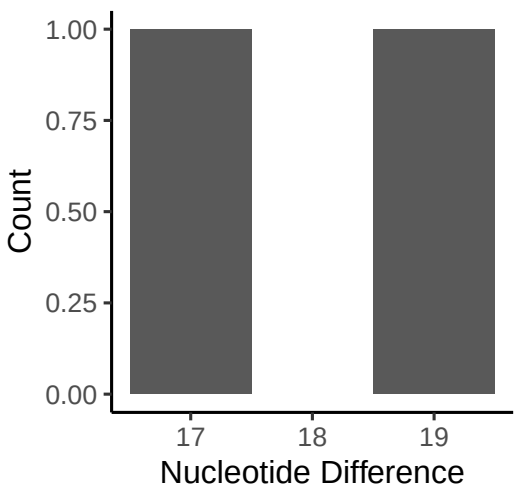
IGHV3−23*04

618 sequences assigned
46 (7.4%) exact matches, in which:
44 unique CDR3
5 unique J



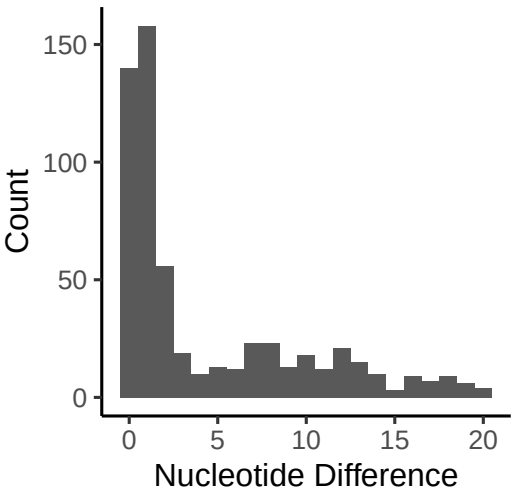
IGHV3−30−3*02

2 sequences assigned
No exact matches.



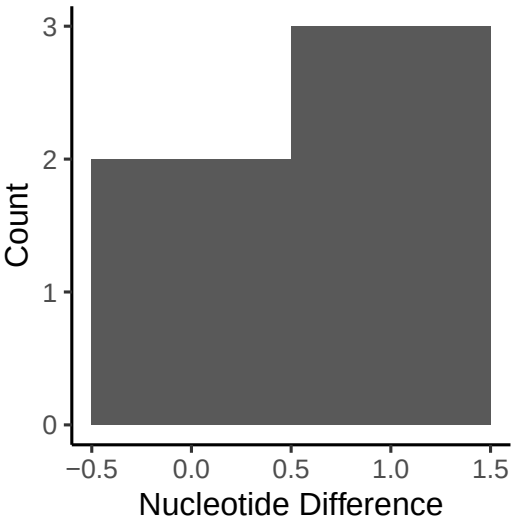
IGHV3−30*04

709 sequences assigned
140 (19.7%) exact matches, in which:
122 unique CDR3
6 unique J



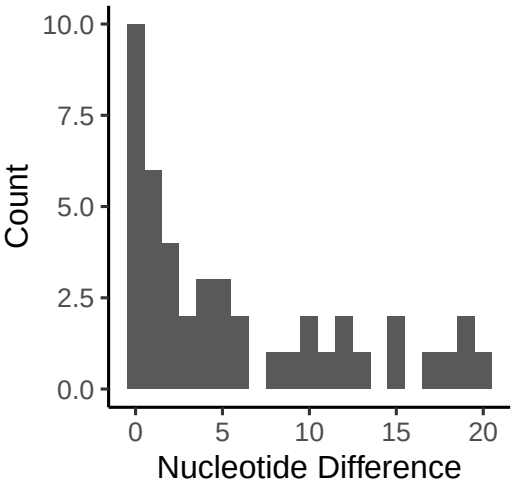
IGHV3−43*01

6 sequences assigned
2 (33.3%) exact matches, in which:
2 unique CDR3
1 unique J



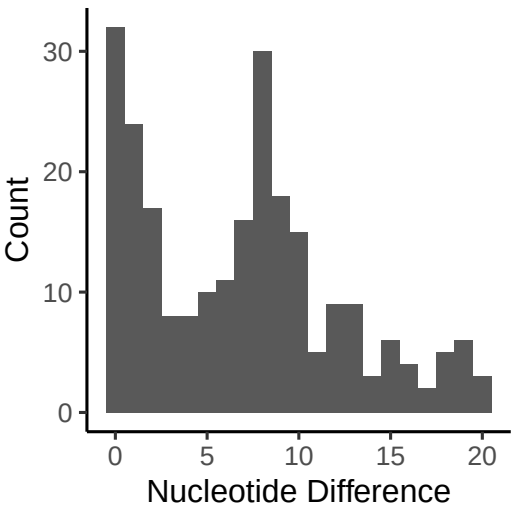
IGHV3−49*03

45 sequences assigned
10 (22.2%) exact matches, in which:
10 unique CDR3
4 unique J



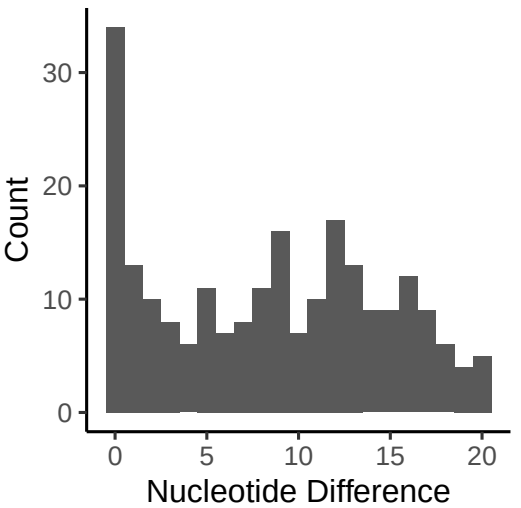
IGHV3−30*18

254 sequences assigned
32 (12.6%) exact matches, in which:
27 unique CDR3
4 unique J



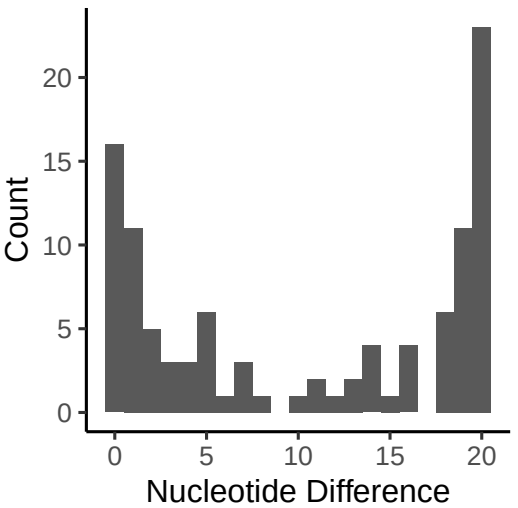
IGHV3−48*01

254 sequences assigned
34 (13.4%) exact matches, in which:
33 unique CDR3
4 unique J



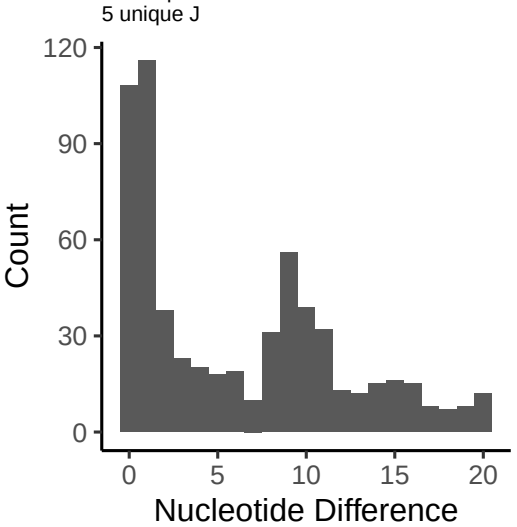
IGHV3−49*04

148 sequences assigned
16 (10.8%) exact matches, in which:
16 unique CDR3
2 unique J



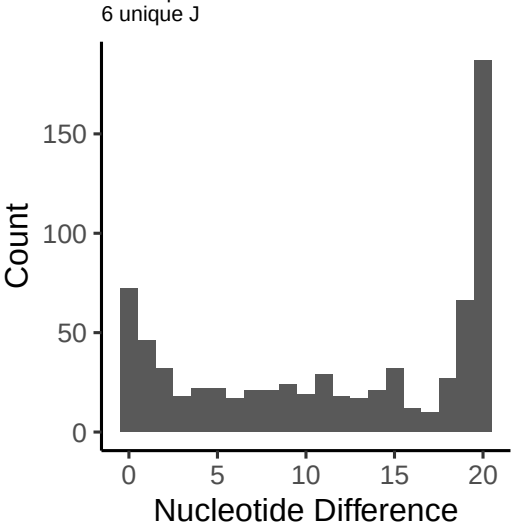
IGHV3−33*01

654 sequences assigned
108 (16.5%) exact matches, in which:
92 unique CDR3
5 unique J



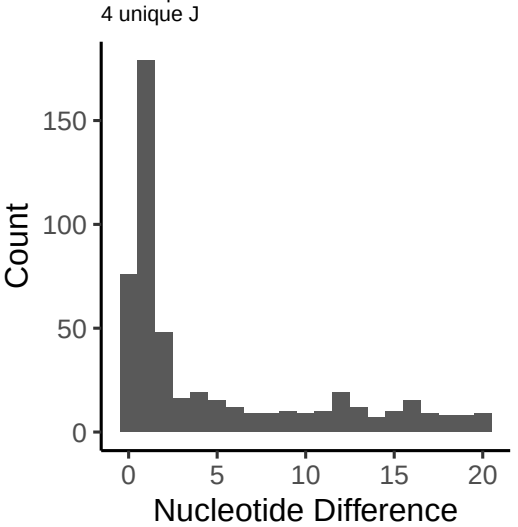
IGHV3−48*03

1015 sequences assigned
72 (7.1%) exact matches, in which:
72 unique CDR3
6 unique J



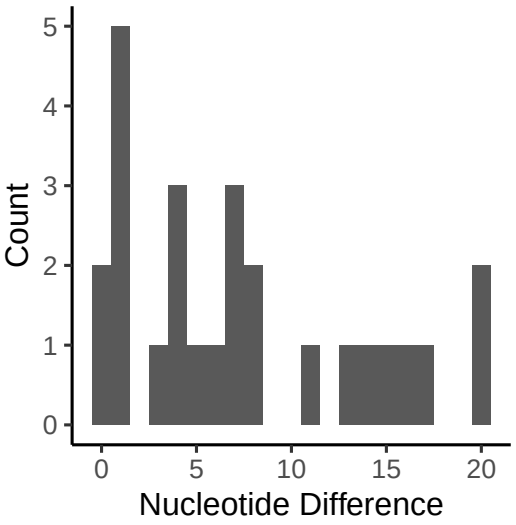
IGHV3−53*02

561 sequences assigned
76 (13.5%) exact matches, in which:
56 unique CDR3
4 unique J



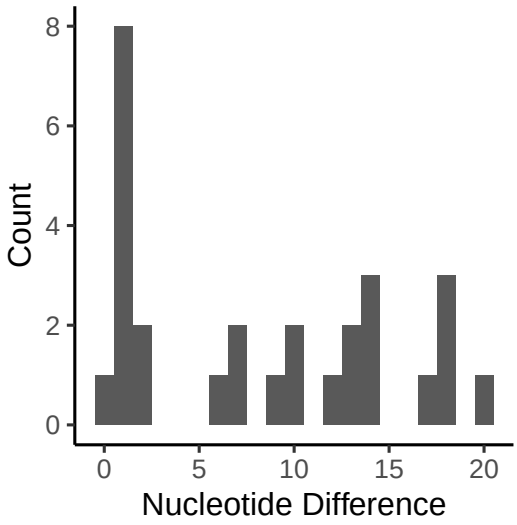
IGHV3−64*01

32 sequences assigned
2 (6.2%) exact matches, in which:
2 unique CDR3
2 unique J



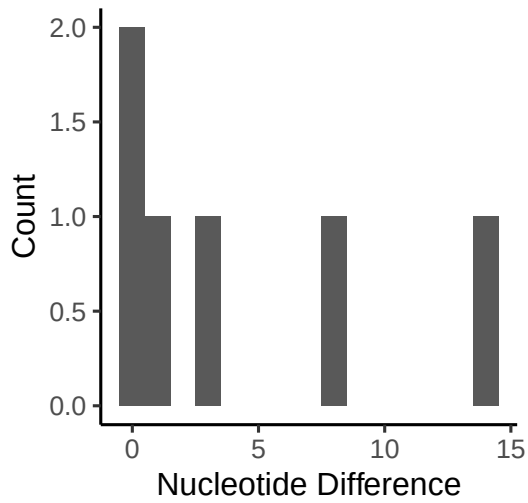
IGHV3−73*01

36 sequences assigned
1 (2.8%) exact matches, in which:
1 unique CDR3
1 unique J



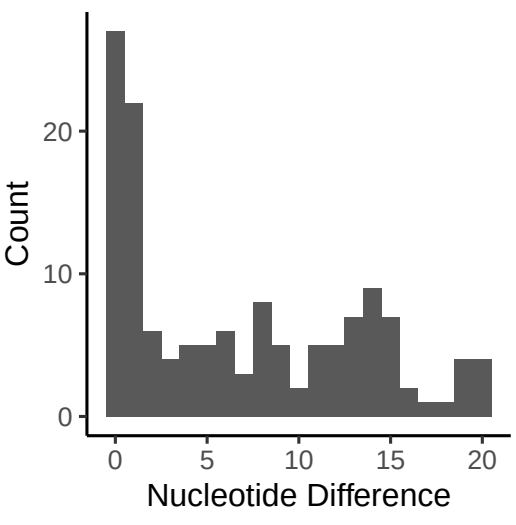
IGHV3−43D*04

6 sequences assigned
2 (33.3%) exact matches, in which:
2 unique CDR3
2 unique J



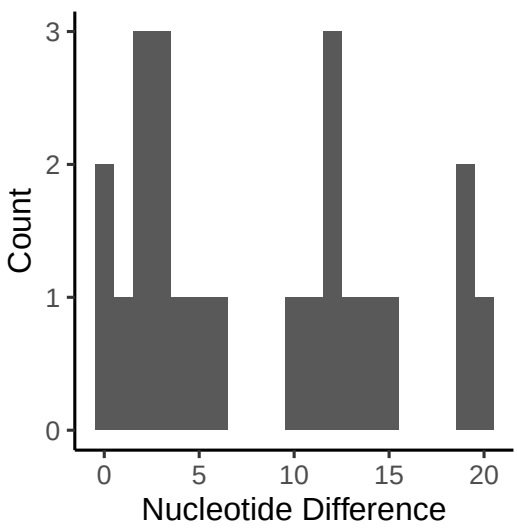
IGHV3−66*02

184 sequences assigned
27 (14.7%) exact matches, in which:
25 unique CDR3
4 unique J



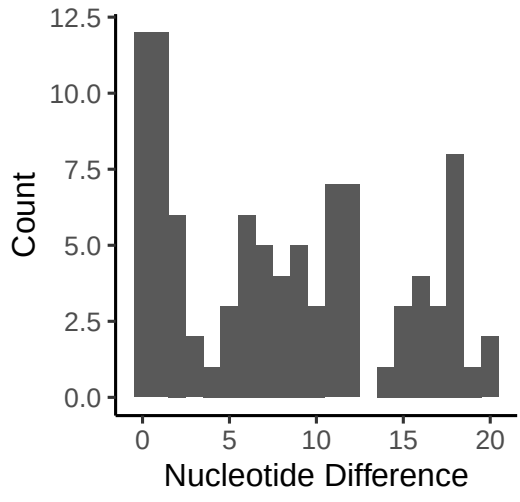
IGHV3−73*02

26 sequences assigned
2 (7.7%) exact matches, in which:
2 unique CDR3
1 unique J



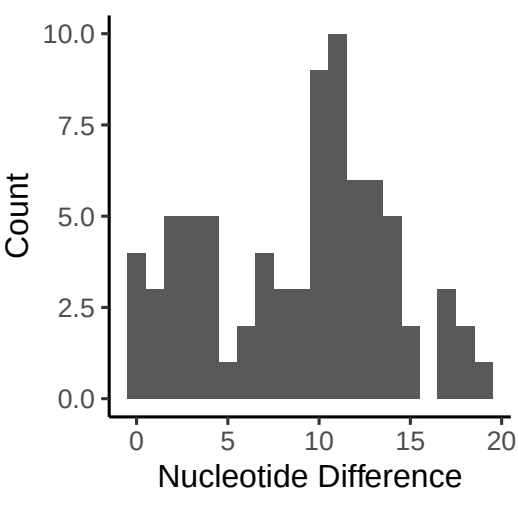
IGHV3−64D*06

114 sequences assigned
12 (10.5%) exact matches, in which:
12 unique CDR3
2 unique J



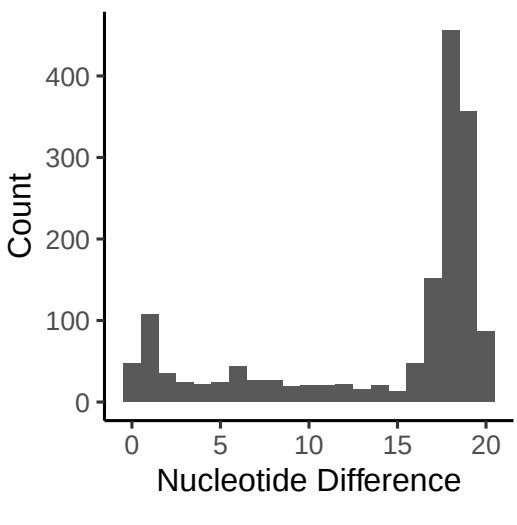
IGHV3−72*01

92 sequences assigned
4 (4.3%) exact matches, in which:
4 unique CDR3
3 unique J



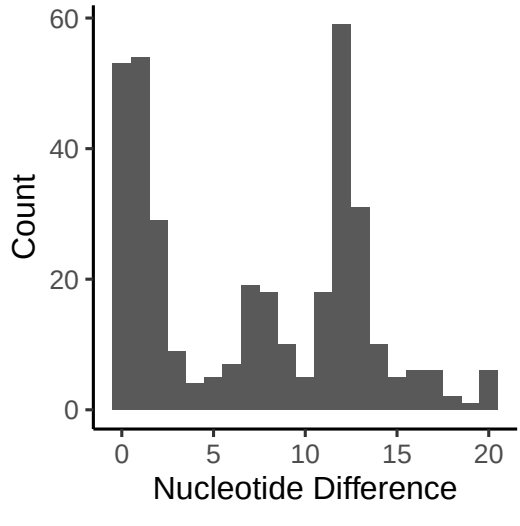
IGHV3−74*01

1824 sequences assigned
47 (2.6%) exact matches, in which:
37 unique CDR3
5 unique J



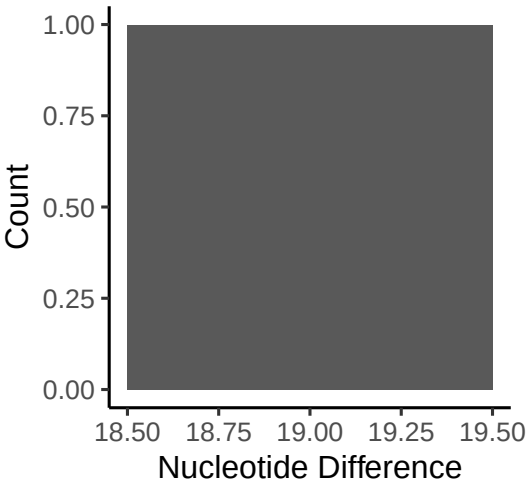
IGHV4−4*02

487 sequences assigned
53 (10.9%) exact matches, in which:
48 unique CDR3
4 unique J



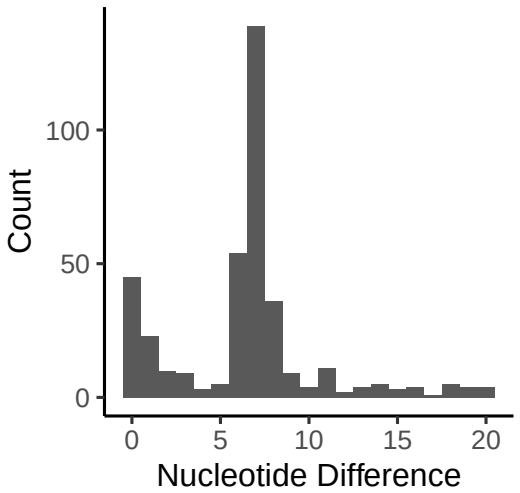
IGHV4−28*03

1 sequences assigned
No exact matches.



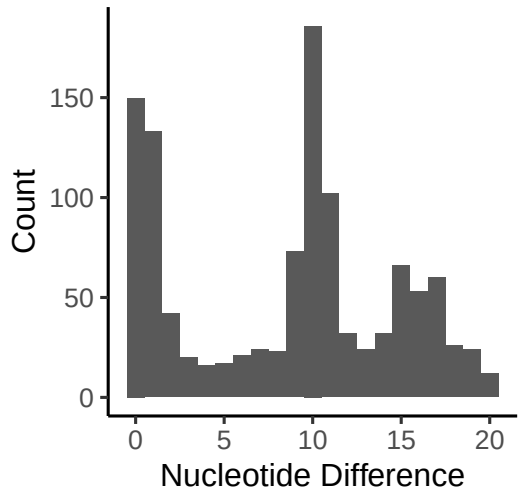
IGHV4−31*03

860 sequences assigned
45 (5.2%) exact matches, in which:
42 unique CDR3
5 unique J



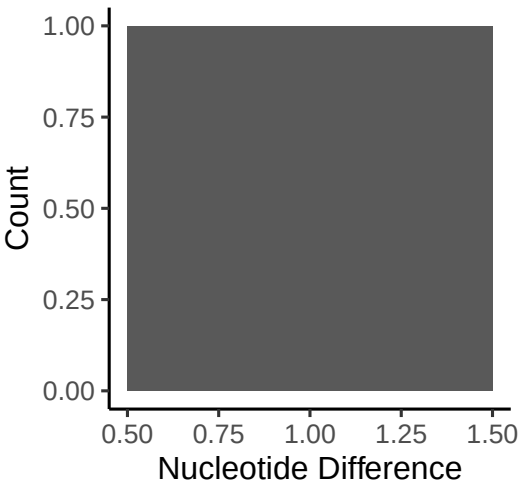
IGHV4−39*01

1257 sequences assigned
150 (11.9%) exact matches, in which:
137 unique CDR3
6 unique J



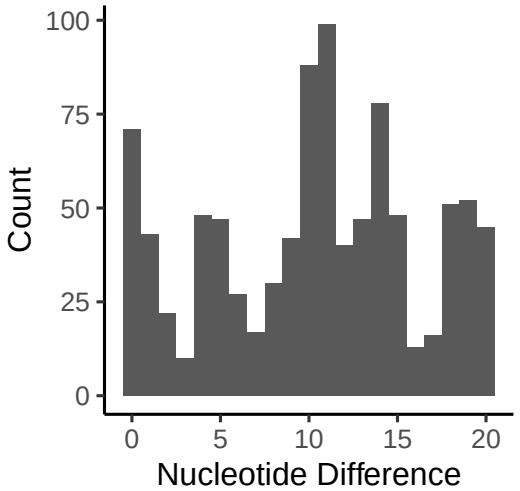
IGHV4−28*07

6 sequences assigned
No exact matches.



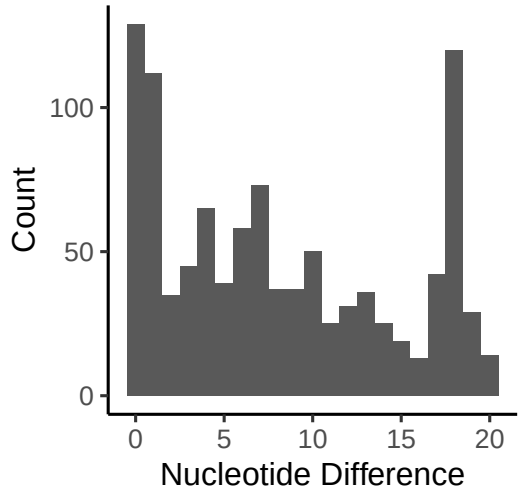
IGHV4−34*01

1306 sequences assigned
71 (5.4%) exact matches, in which:
71 unique CDR3
5 unique J



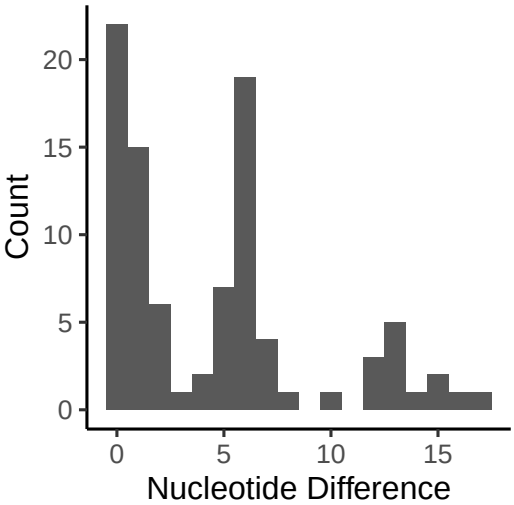
IGHV4−59*01

1177 sequences assigned
129 (11%) exact matches, in which:
111 unique CDR3
6 unique J



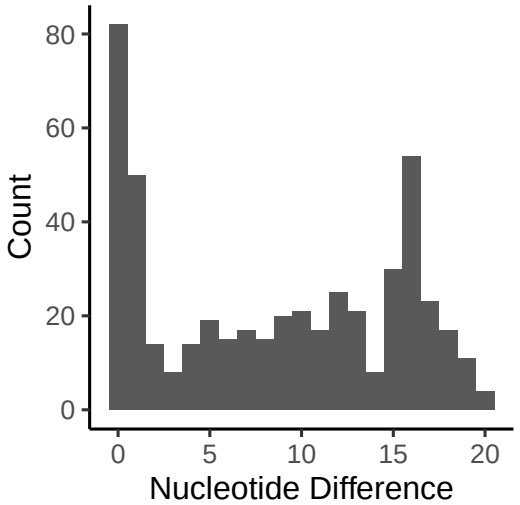
IGHV4−30−2*01

92 sequences assigned
22 (23.9%) exact matches, in which:
21 unique CDR3
4 unique J



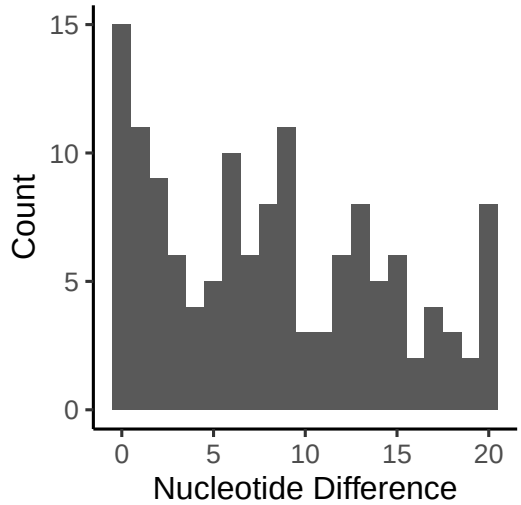
IGHV4−38−2*02_A70G

524 sequences assigned
82 (15.6%) exact matches, in which:
71 unique CDR3
5 unique J



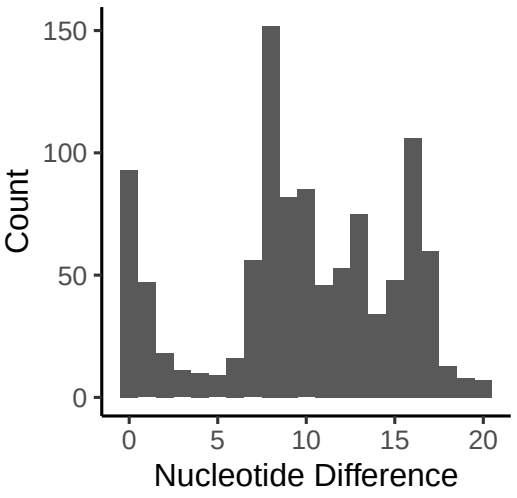
IGHV4−61*01

285 sequences assigned
15 (5.3%) exact matches, in which:
14 unique CDR3
4 unique J



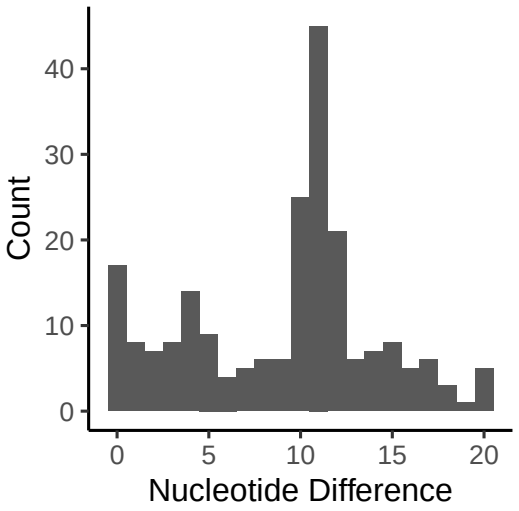
IGHV4−61*02

1360 sequences assigned
93 (6.8%) exact matches, in which:
84 unique CDR3
6 unique J



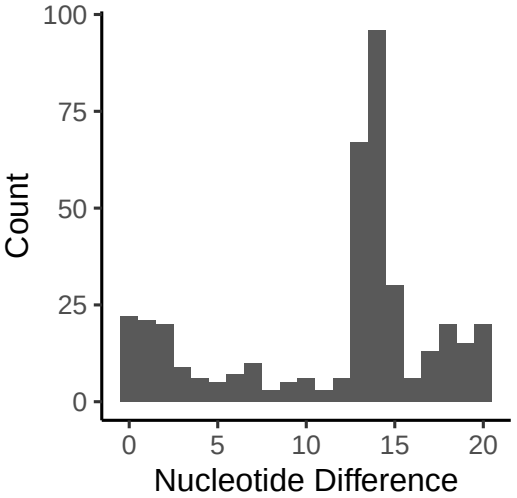
IGHV5−51*03

277 sequences assigned
17 (6.1%) exact matches, in which:
17 unique CDR3
4 unique J



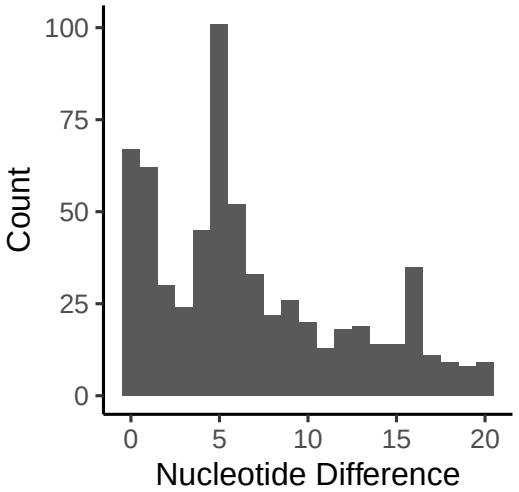
IGHV5−10−1*03

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



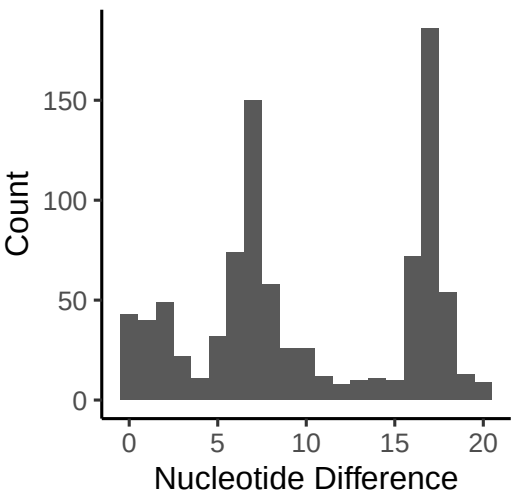
IGHV6−1*01

652 sequences assigned
67 (10.3%) exact matches, in which:
57 unique CDR3
6 unique J



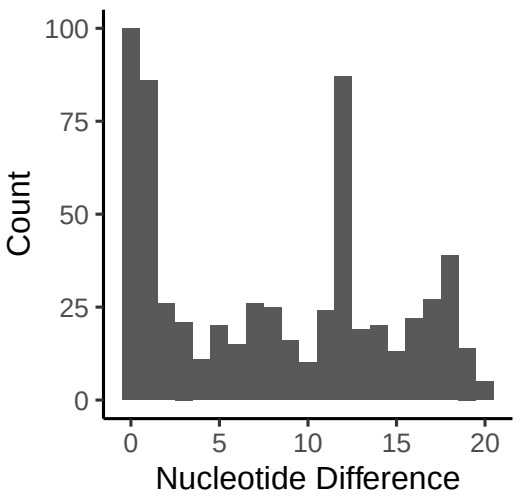
IGHV5−51*01

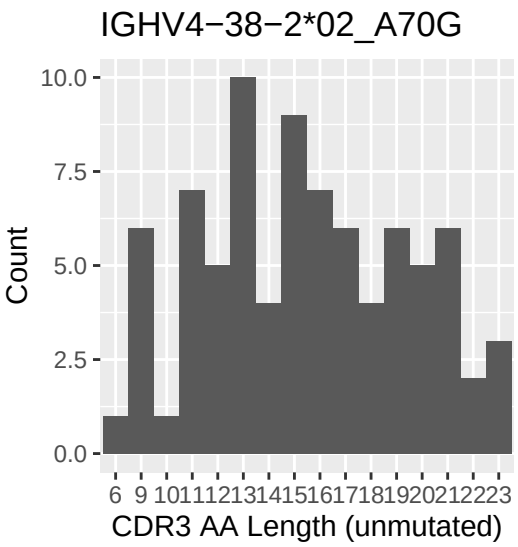
986 sequences assigned
43 (4.4%) exact matches, in which:
40 unique CDR3
5 unique J

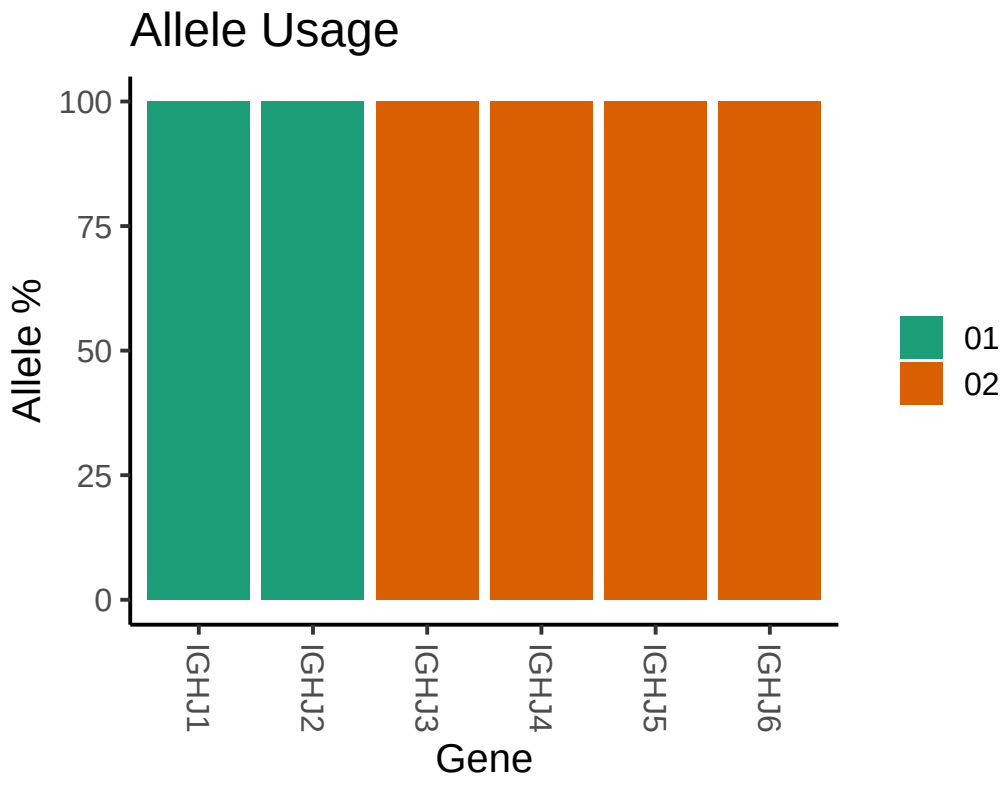


IGHV7−4−1*02

657 sequences assigned
100 (15.2%) exact matches, in which:
87 unique CDR3
6 unique J




IGHV4−38−2*02_A70G
Count
10.0
7.5
5.0
2.5
0.0
6 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
CDR3 AA Length (unmutated)


Allele Usage
100
75
50
25
0
Allele %
IGHJ1
IGHJ2
IGHJ3
IGHJ4
IGHJ5
IGHJ6
Gene
01
02