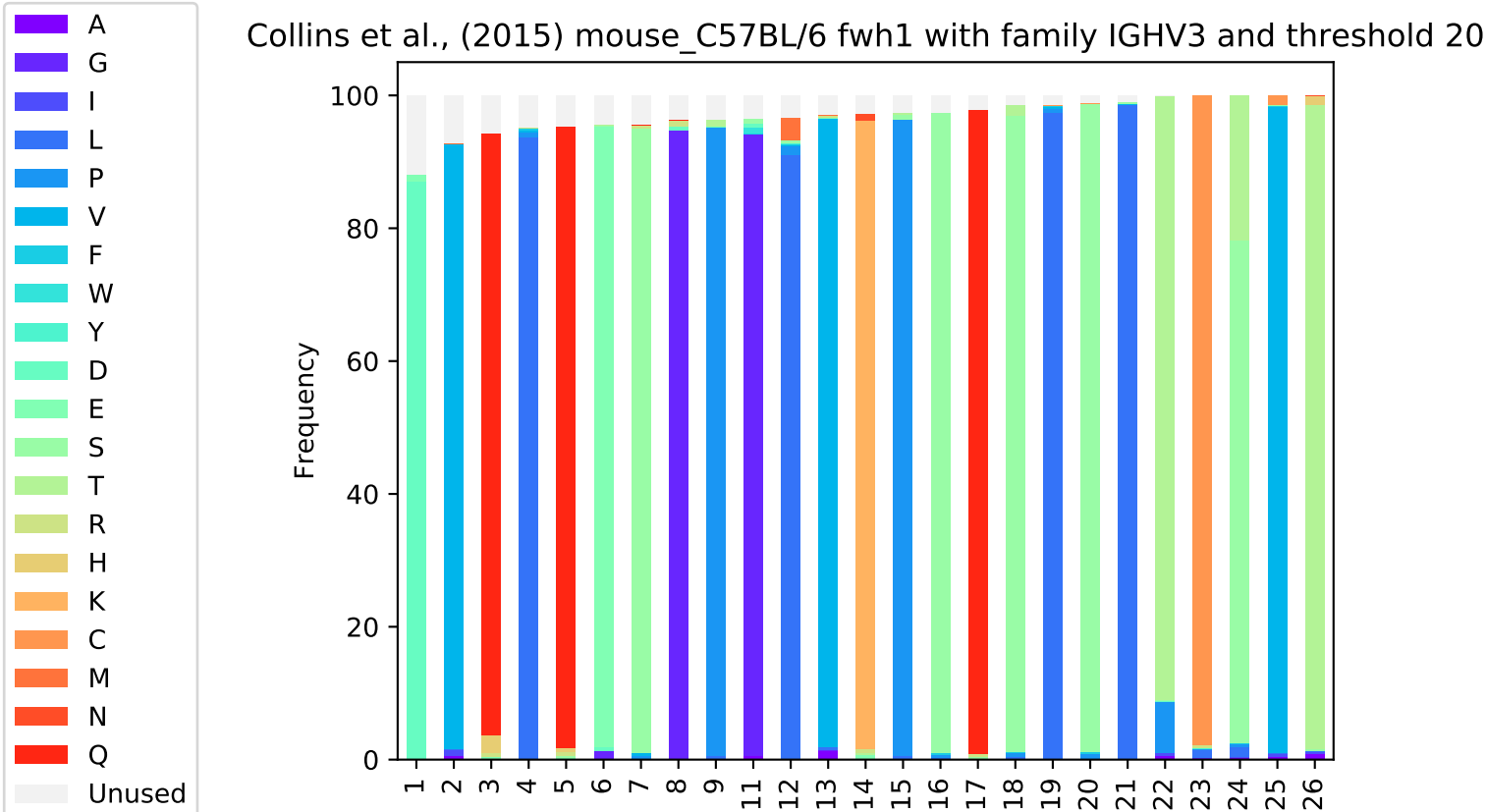
Collins et al., (2015) mouse_C57BL/6 fwh1 with family IGHV3 and threshold 20
Frequency
Position
0
20
40
60
80
100
1
2
3
4
5
6
7
8
9
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
A
G
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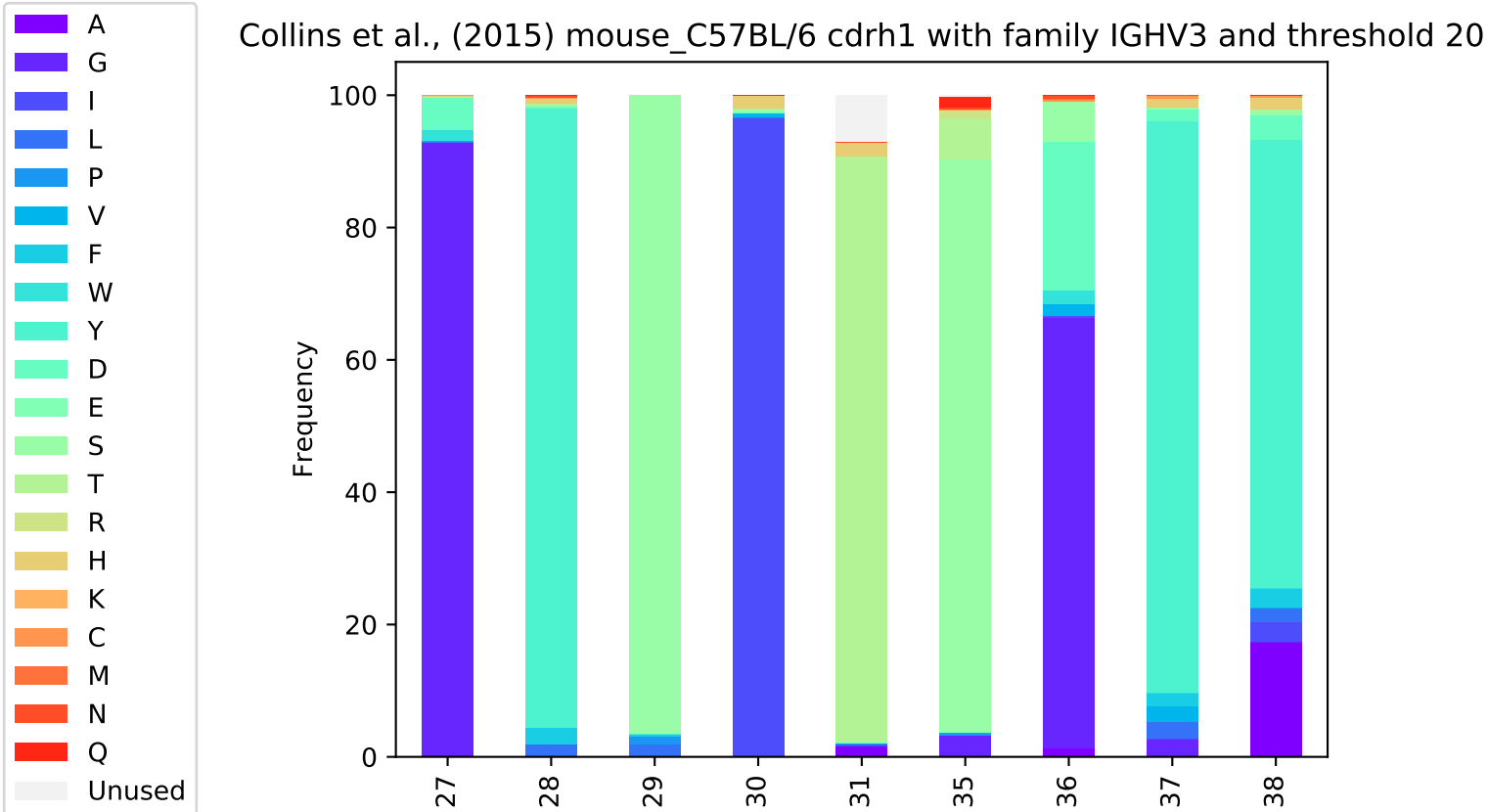
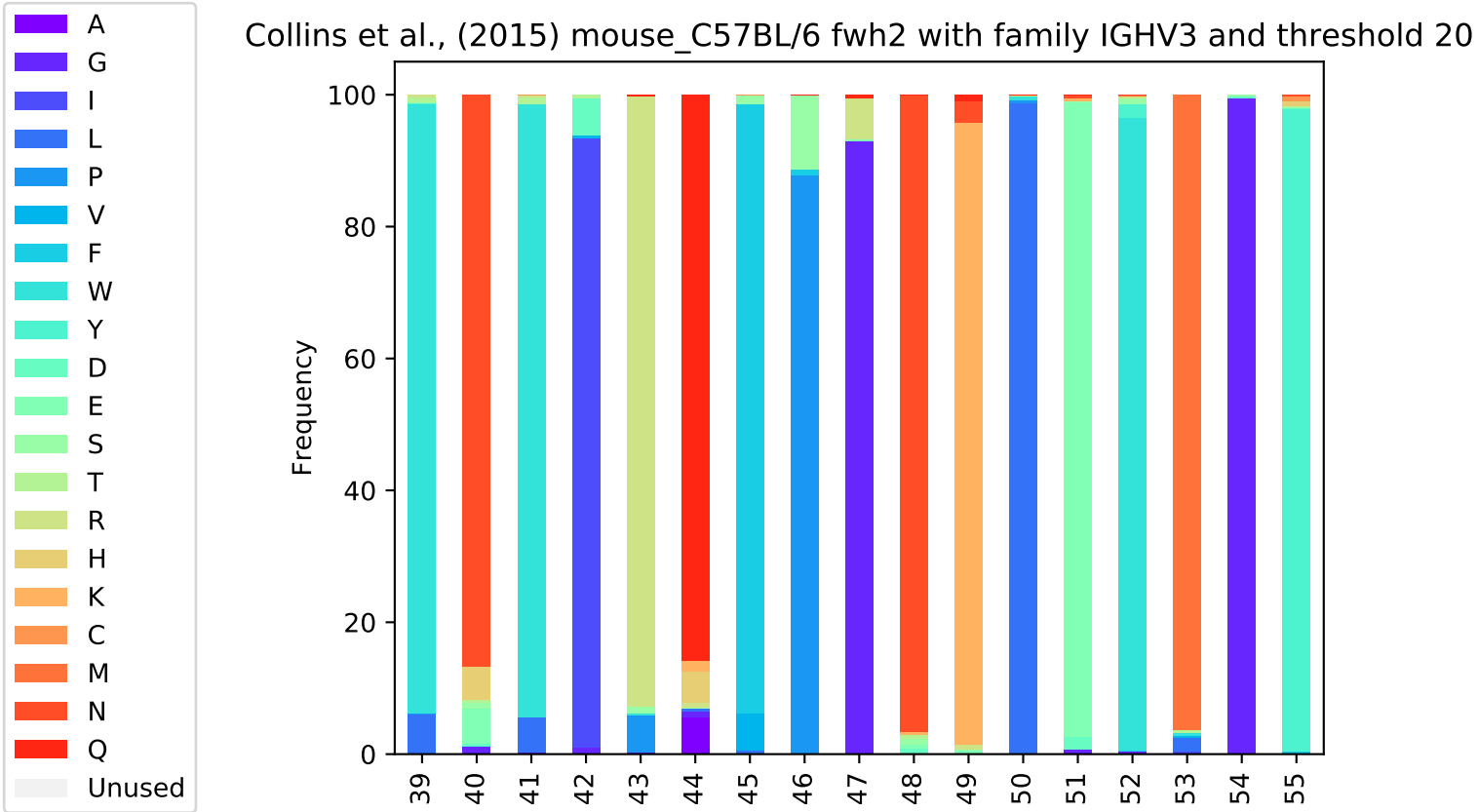
D
E
S
T
R
H
K
C
M
N
Q
Unused


Collins et al., (2015) mouse_C57BL/6 cdrh1 with family IGHV3 and threshold 20
A
G
I
L
P
V
F
W
Y
D
E
S
T
R
H
K
C
M
N
Q
Unused
Frequency
0
20
40
60
80
100
27
28
29
30
31
35
36
37
38
Position


Collins et al., (2015) mouse_C57BL/6 fwh2 with family IGHV3 and threshold 20
Frequency
Position
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60
80
100
39
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41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
A
G
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N
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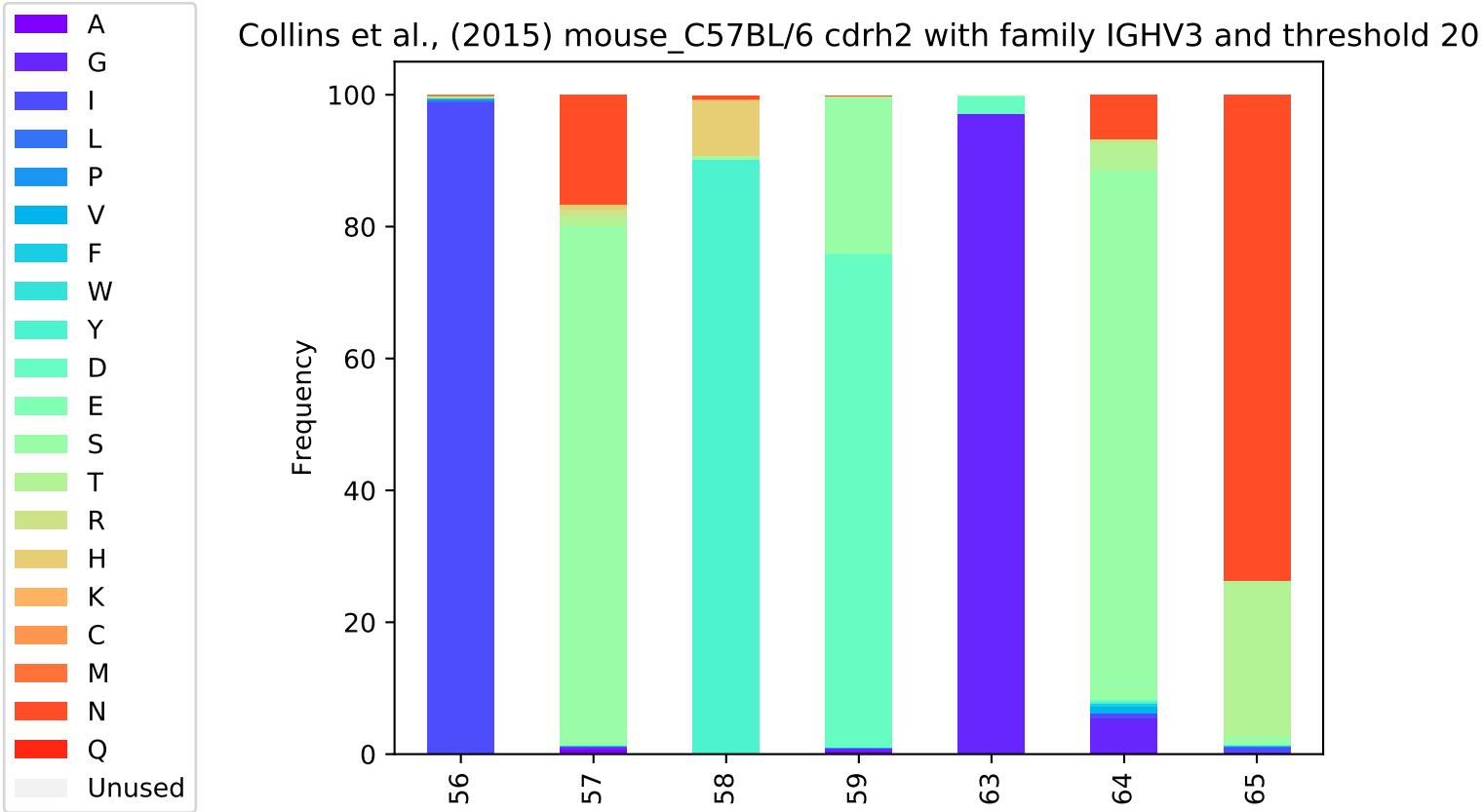
Unused


Collins et al., (2015) mouse_C57BL/6 cdrh2 with family IGHV3 and threshold 20
Frequency
Position
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40
60
80
100
56
57
58
59
63
64
65
A
G
I
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P
V
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W
Y
D
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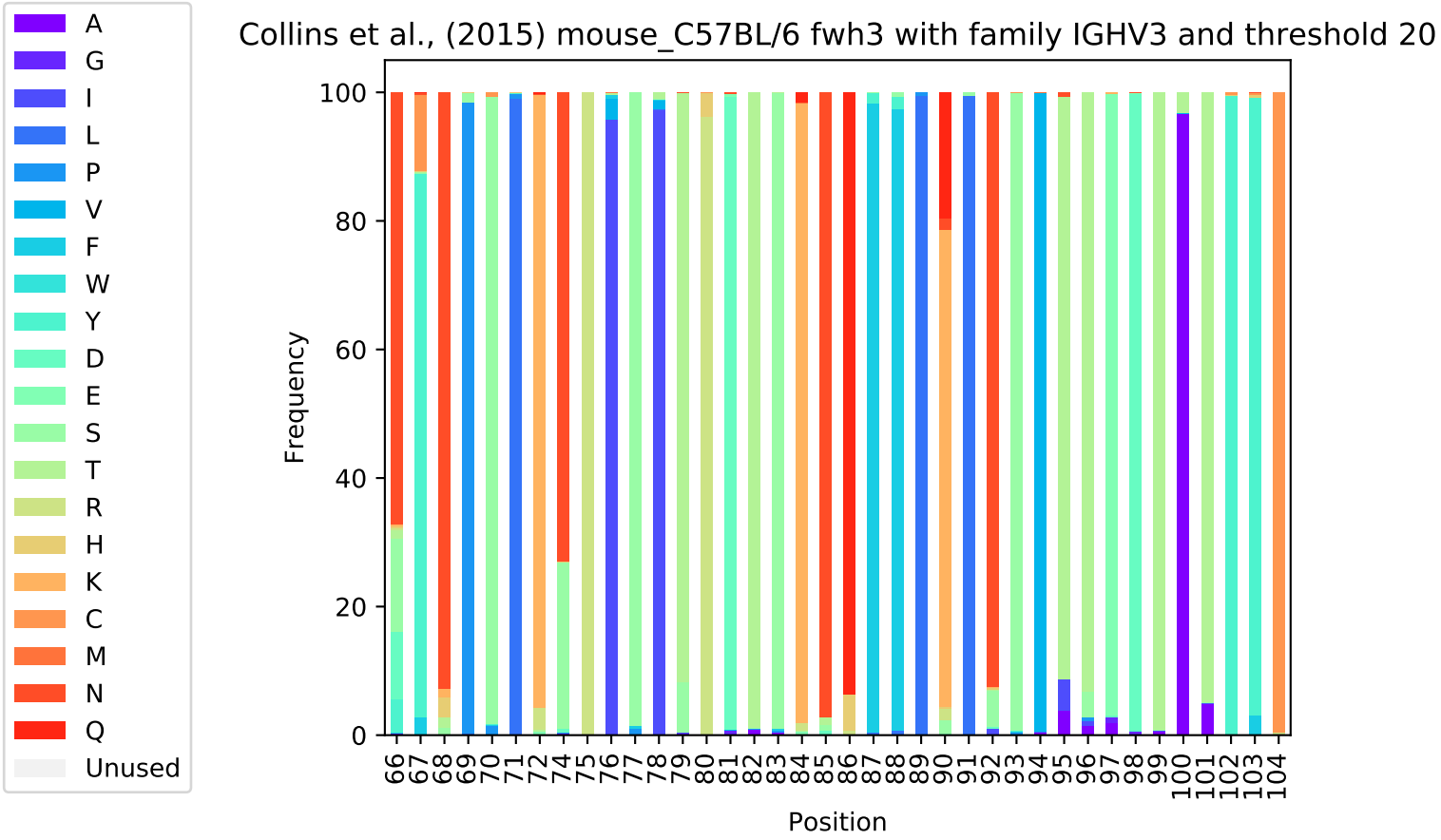
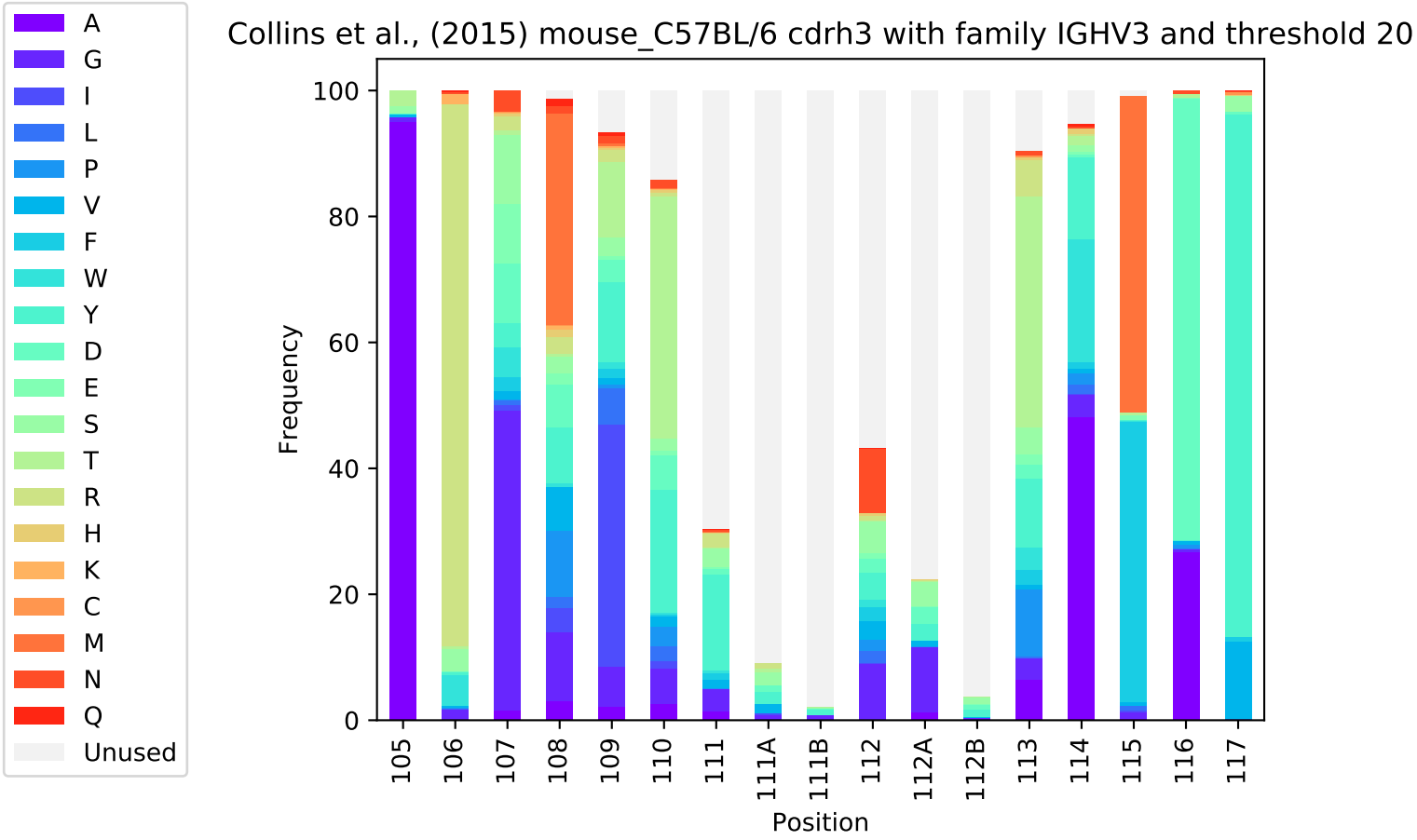
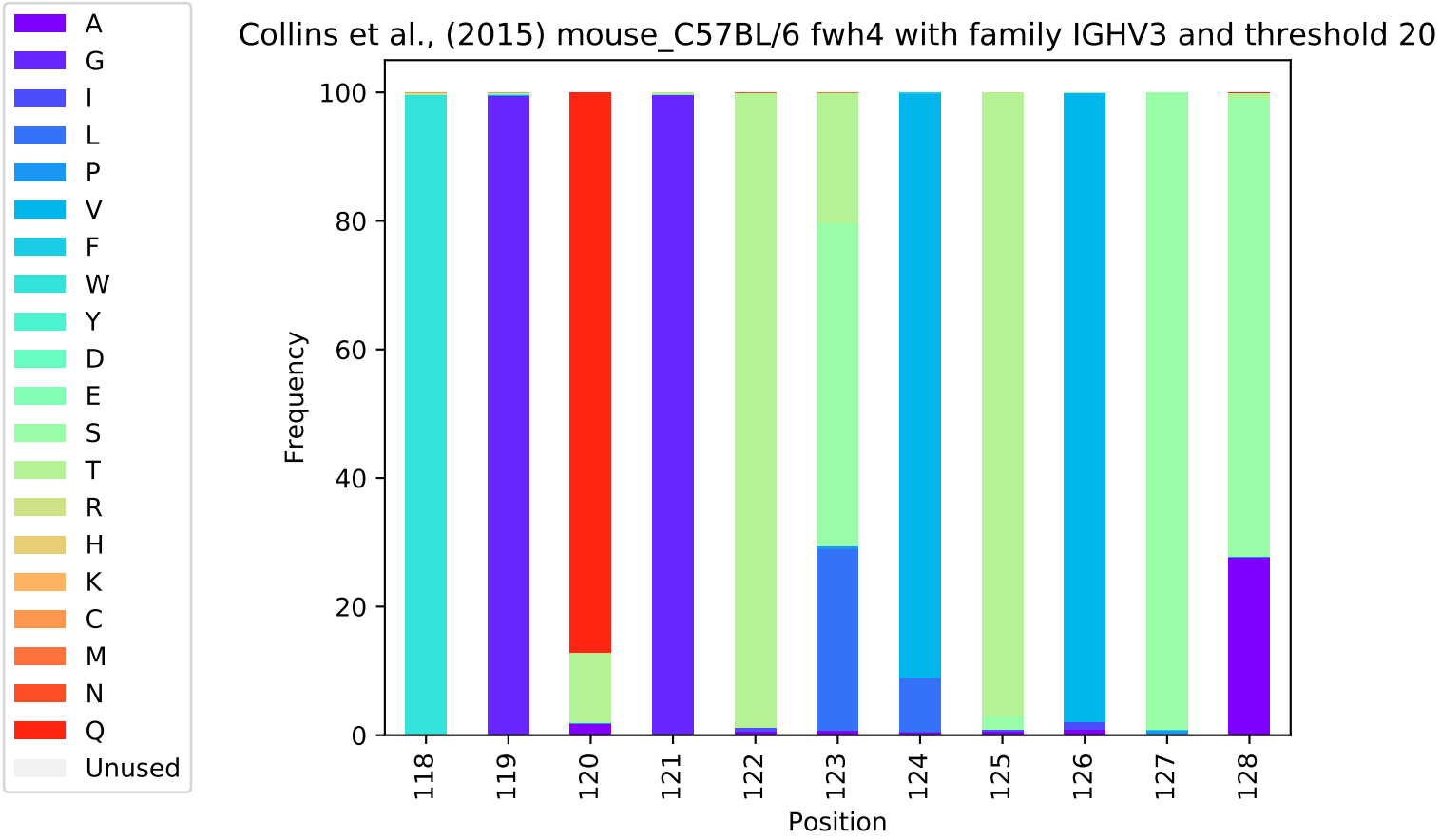
S
T
R
H
K
C
M
N
Q
Unused


Collins et al., (2015) mouse_C57BL/6 fwh3 with family IGHV3 and threshold 20
Frequency
Position
A
G
I
L
P
V
F
W
Y
D
E
S
T
R
H
K
C
M
N
Q
Unused


Collins et al., (2015) mouse_C57BL/6 cdrh3 with family IGHV3 and threshold 20
A
G
I
L
P
V
F
W
Y
D
E
S
T
R
H
K
C
M
N
Q
Unused
Frequency
0
20
40
60
80
100
105
106
107
108
109
110
111
111A
111B
112
112A
112B
113
114
115
116
117
Position


Collins et al., (2015) mouse_C57BL/6 fwh4 with family IGHV3 and threshold 20
Frequency
Position
0
20
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60
80
100
118
119
120
121
122
123
124
125
126
127
128
A
G
I
L
P
V
F
W
Y
D
E
S
T
R
H
K
C
M
N
Q
Unused