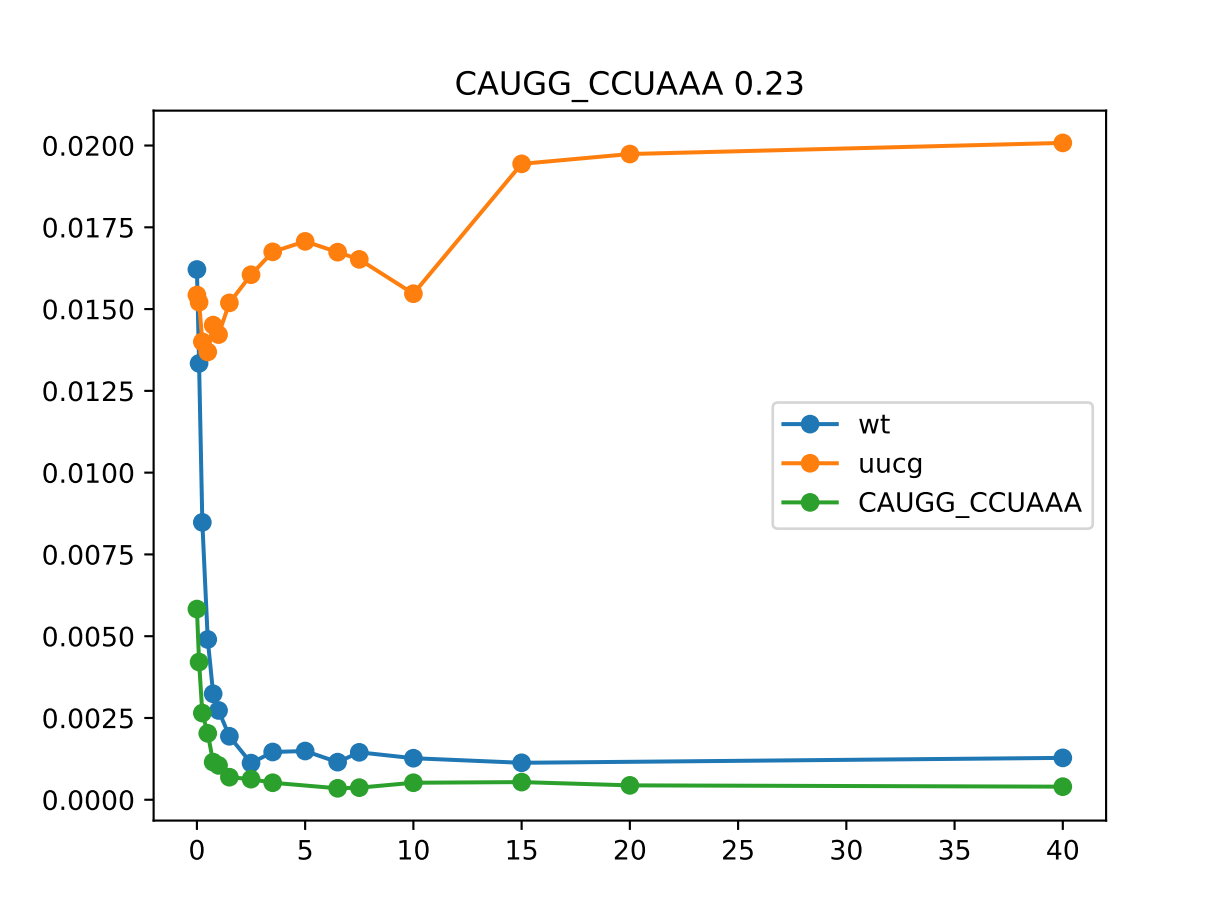
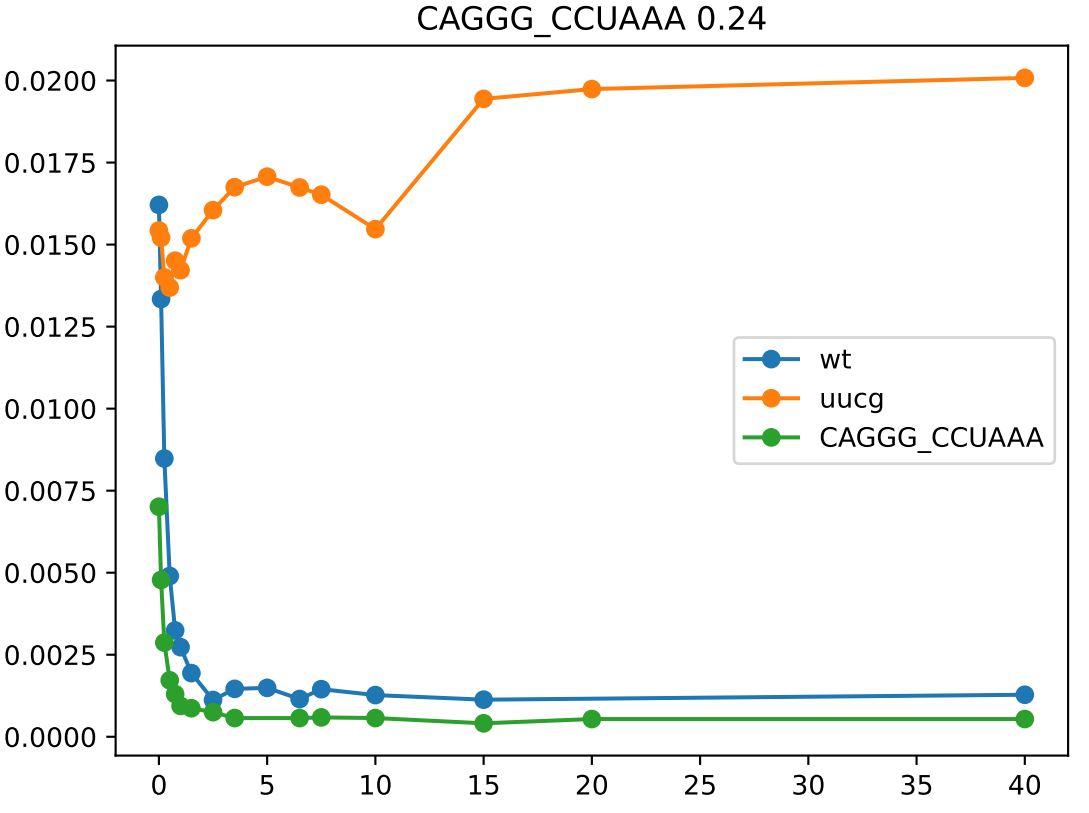
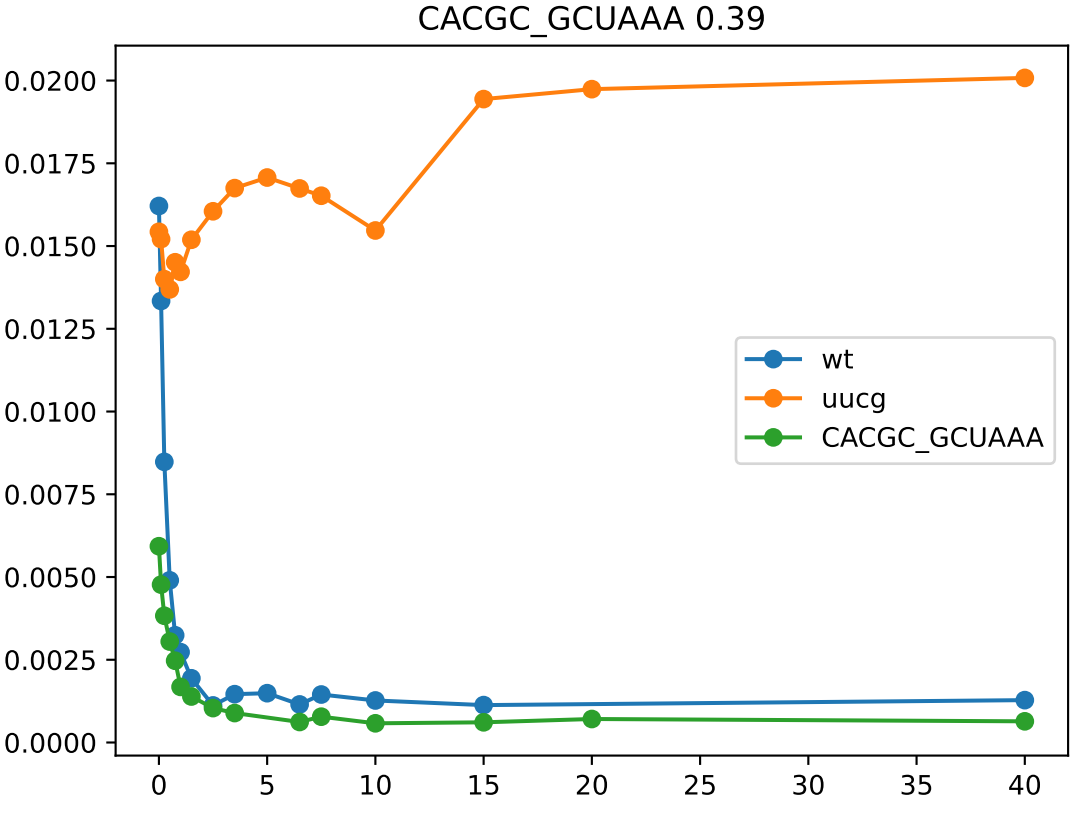
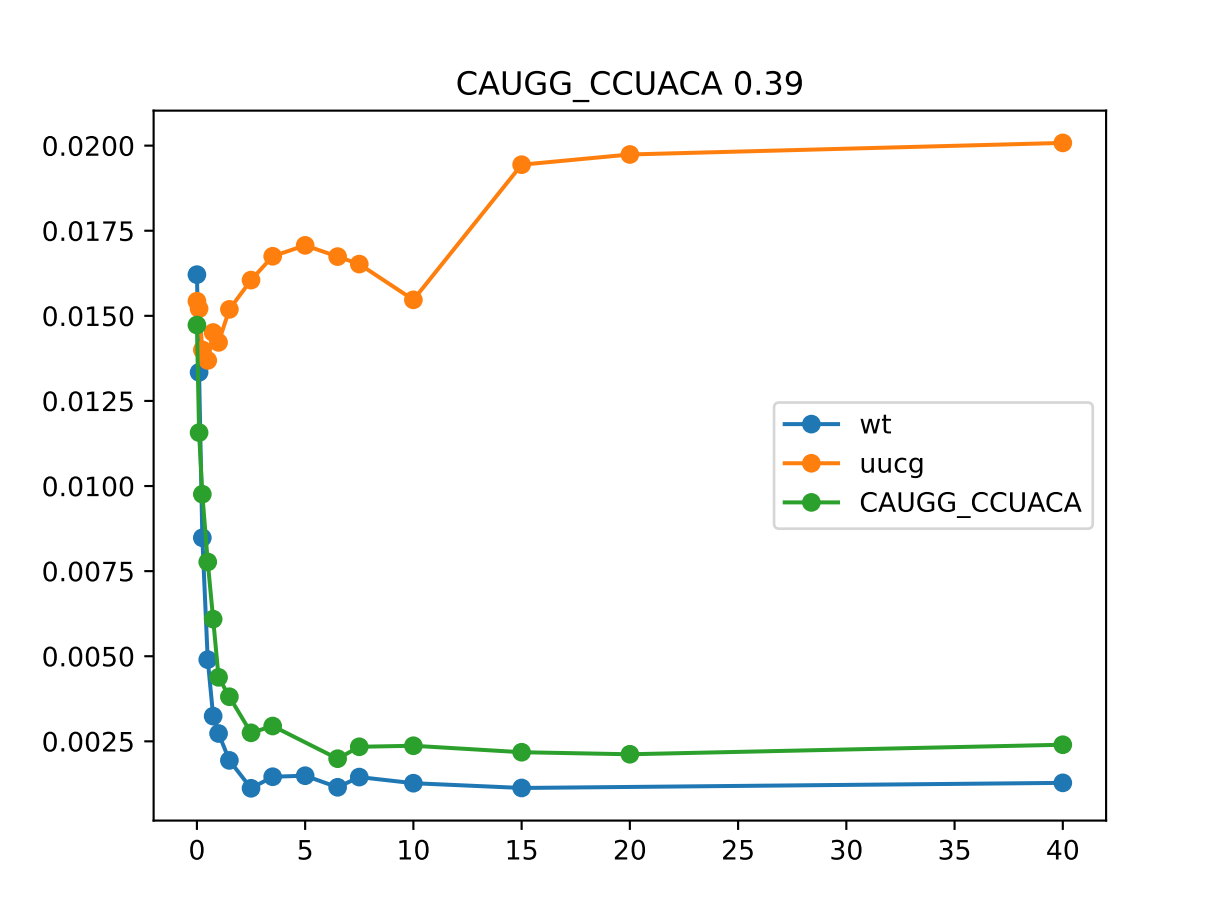
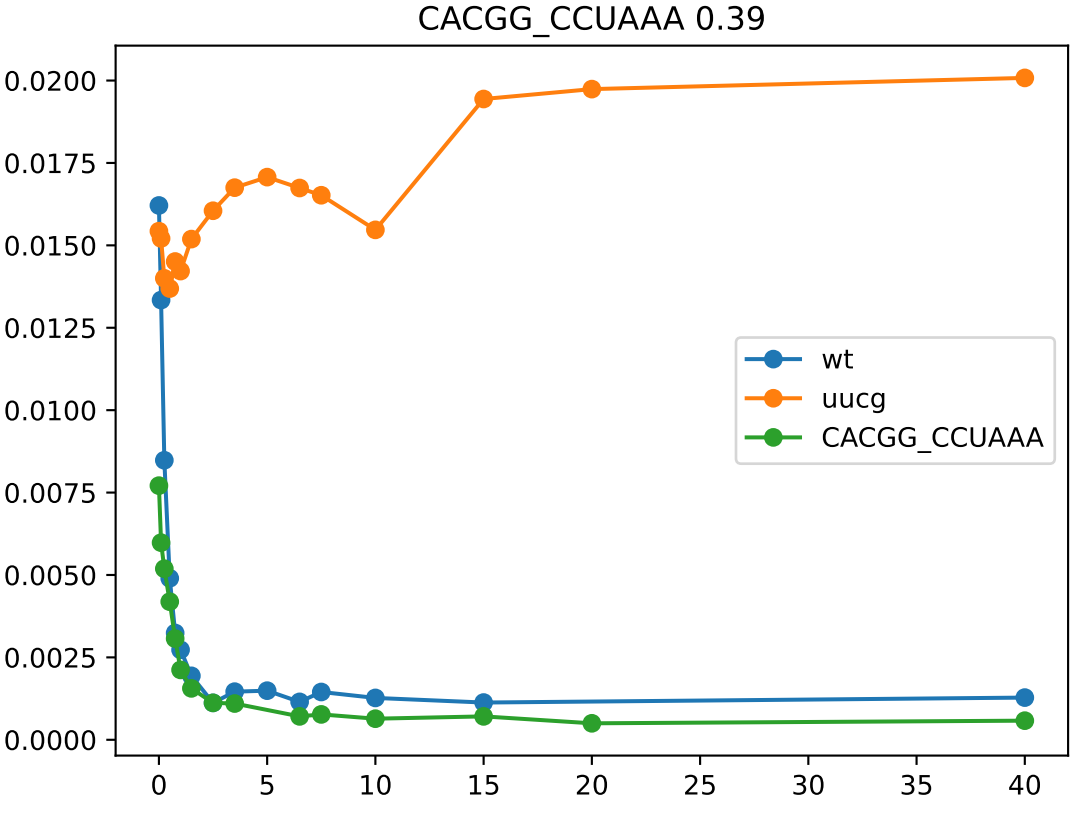
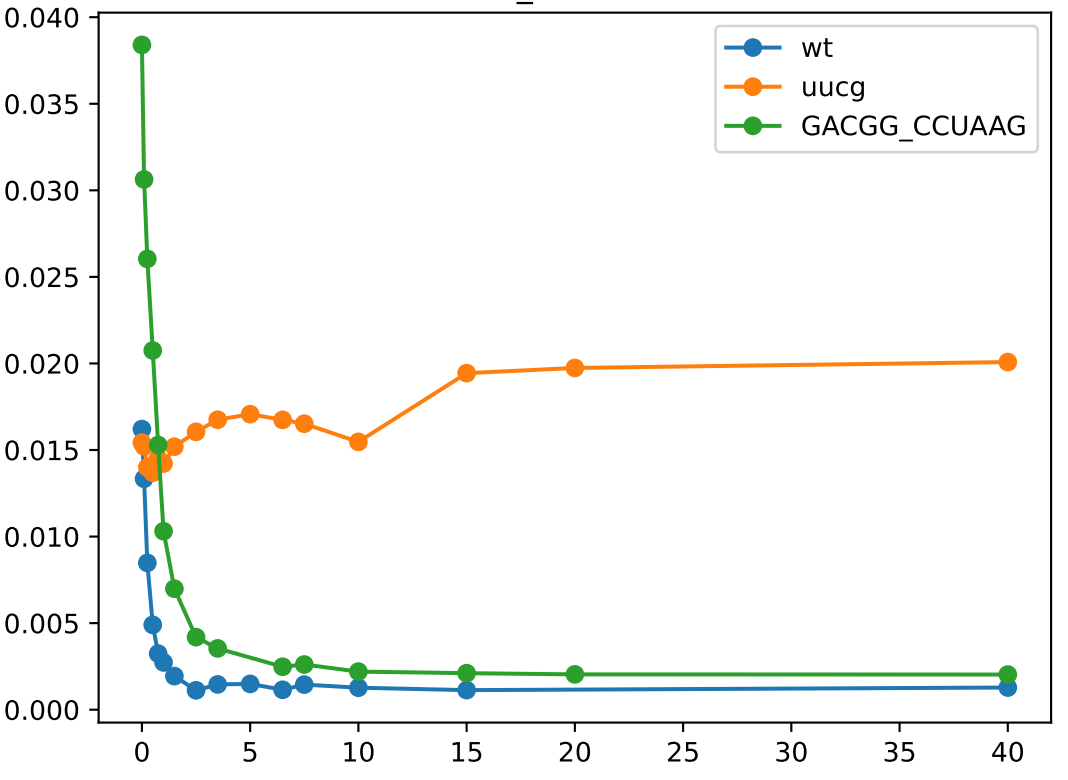

CAUGG_CCUAAA 0.23
0.0200
0.0175
0.0150
0.0125
0.0100
0.0075
0.0050
0.0025
0.0000
0
5
10
15
20
25
30
35
40
wt
uucg
CAUGG_CCUAAA

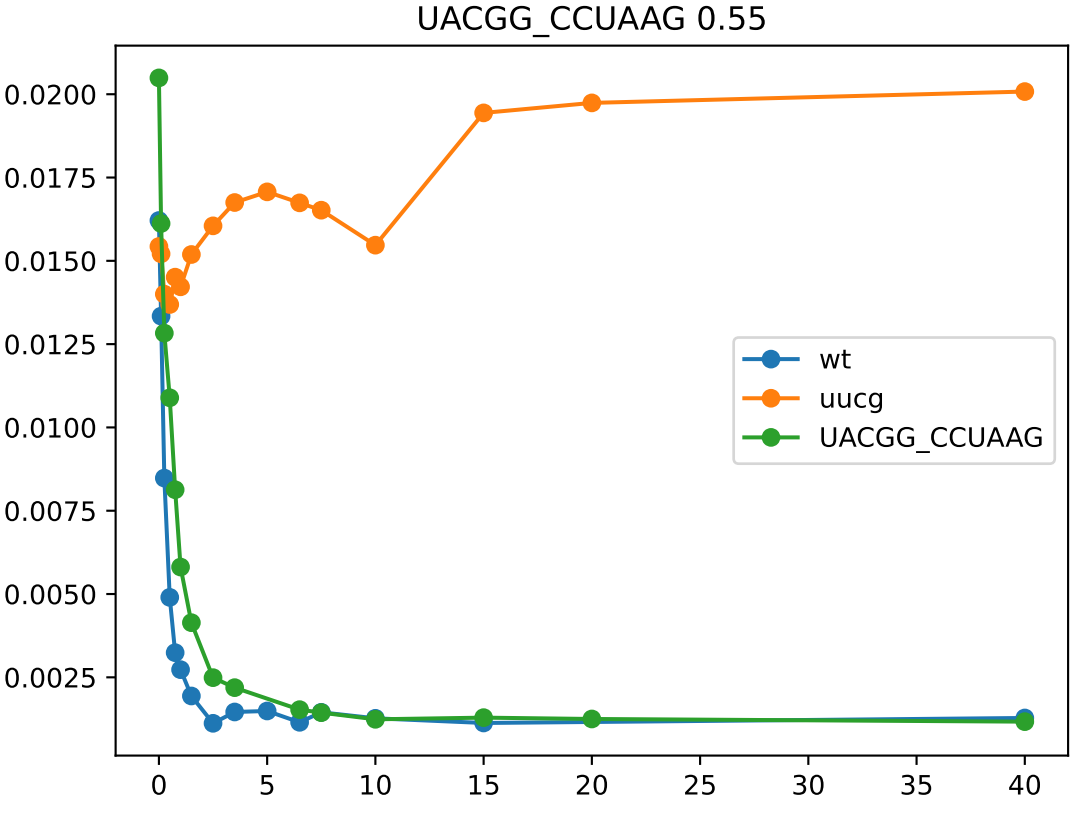

CAGGG_CCUAAA 0.24
0.0200
0.0175
0.0150
0.0125
0.0100
0.0075
0.0050
0.0025
0.0000
0
5
10
15
20
25
30
35
40
wt
uucg
CAGGG_CCUAAA

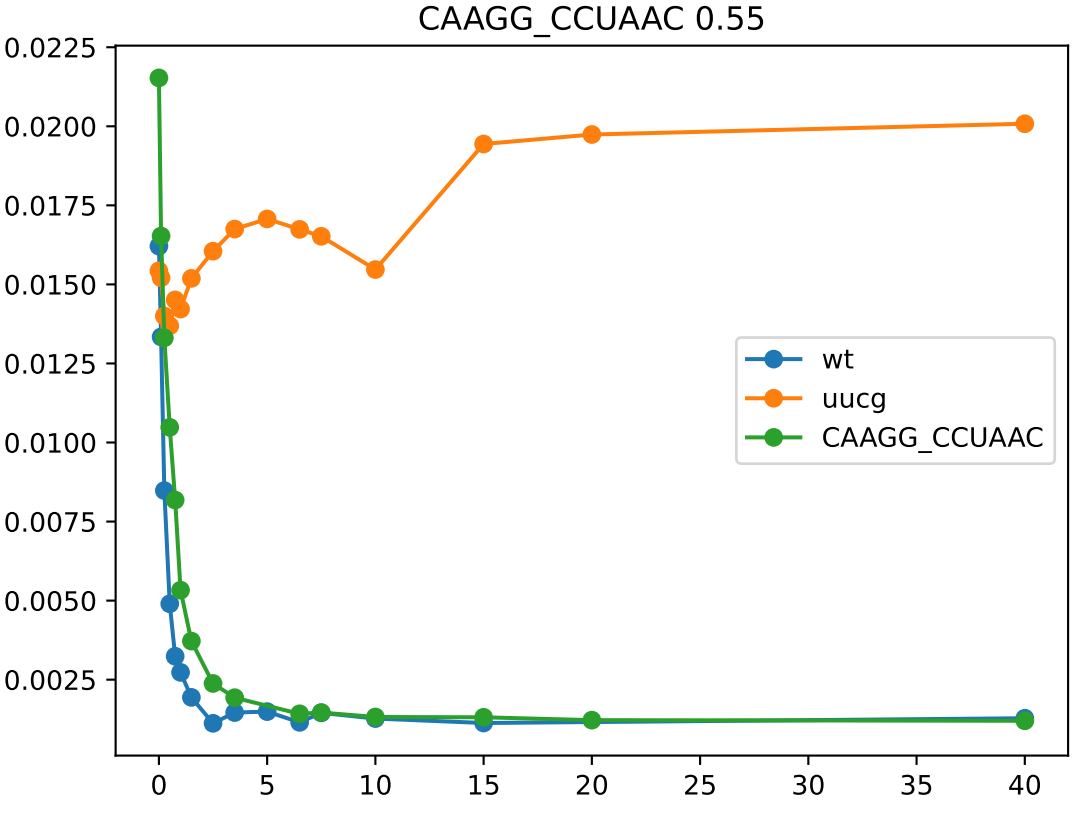

CACGC_GCUAAA 0.39
0.0200
0.0175
0.0150
0.0125
0.0100
0.0075
0.0050
0.0025
0.0000
0
5
10
15
20
25
30
35
40
wt
uucg
CACGC_GCUAAA

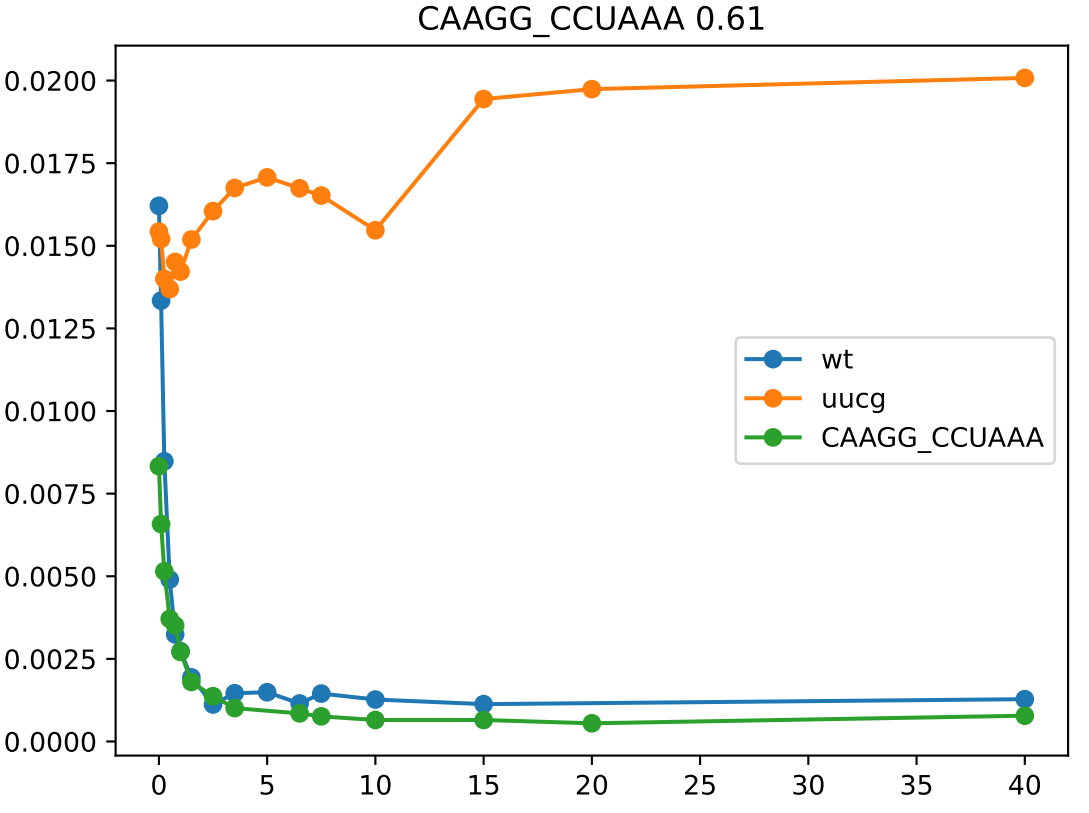

CAUGG_CCUACA 0.39
0.0200
0.0175
0.0150
0.0125
0.0100
0.0075
0.0050
0.0025
0
5
10
15
20
25
30
35
40
wt
uucg
CAUGG_CCUACA

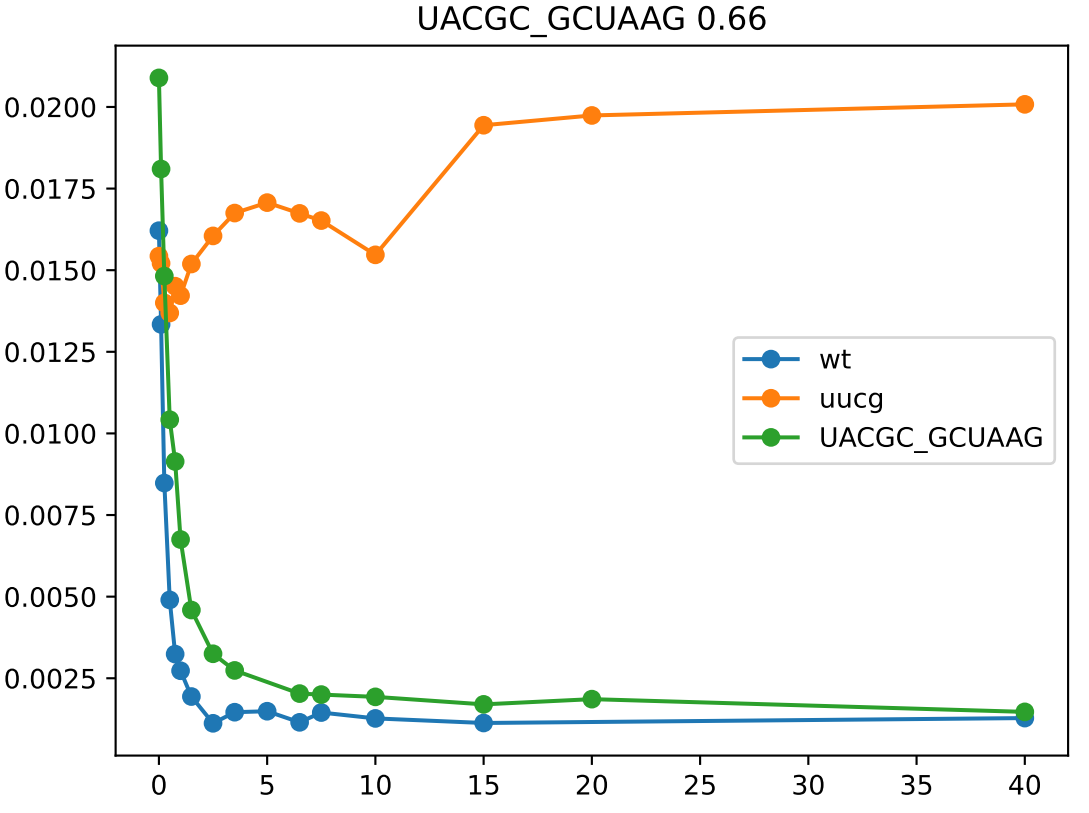

CACGG_CCUAAA 0.39
0.0200
0.0175
0.0150
0.0125
0.0100
0.0075
0.0050
0.0025
0.0000
0
5
10
15
20
25
30
35
40
wt
uucg
CACGG_CCUAAA

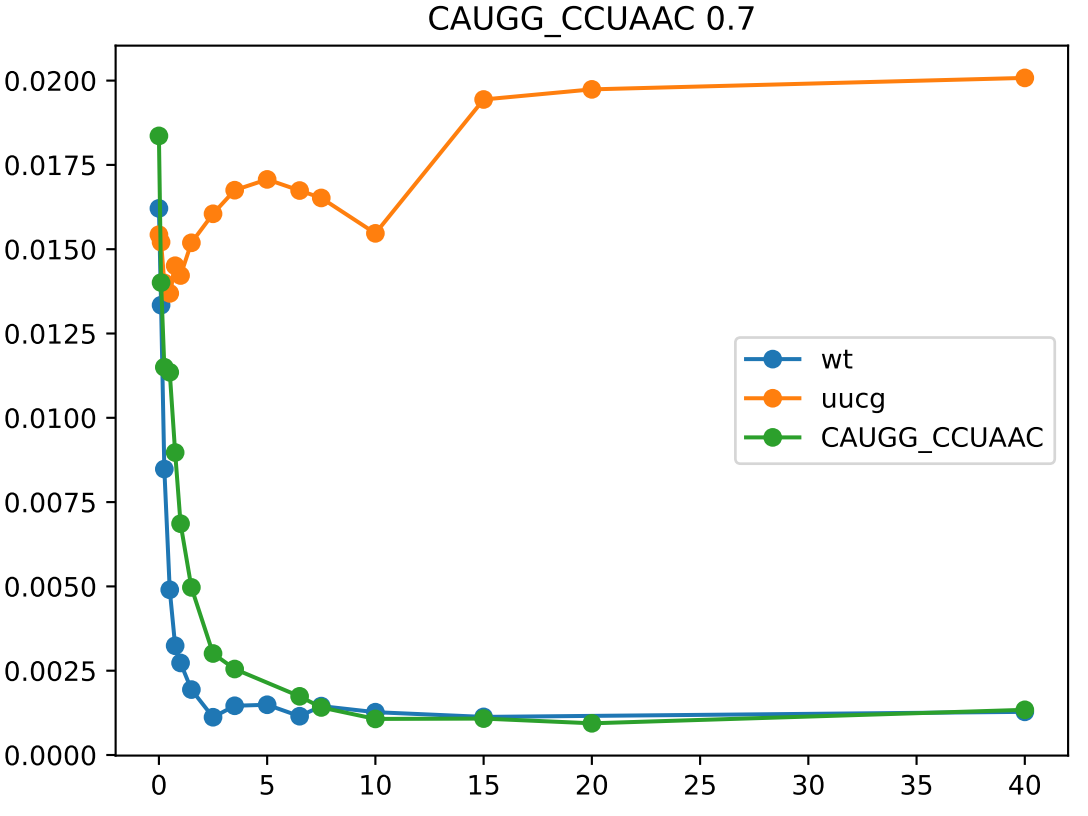

GACGG_CCUAAG 0.53
wt
uucg
GACGG_CCUAAG
0.040
0.035
0.030
0.025
0.020
0.015
0.010
0.005
0.000
0
5
10
15
20
25
30
35
40

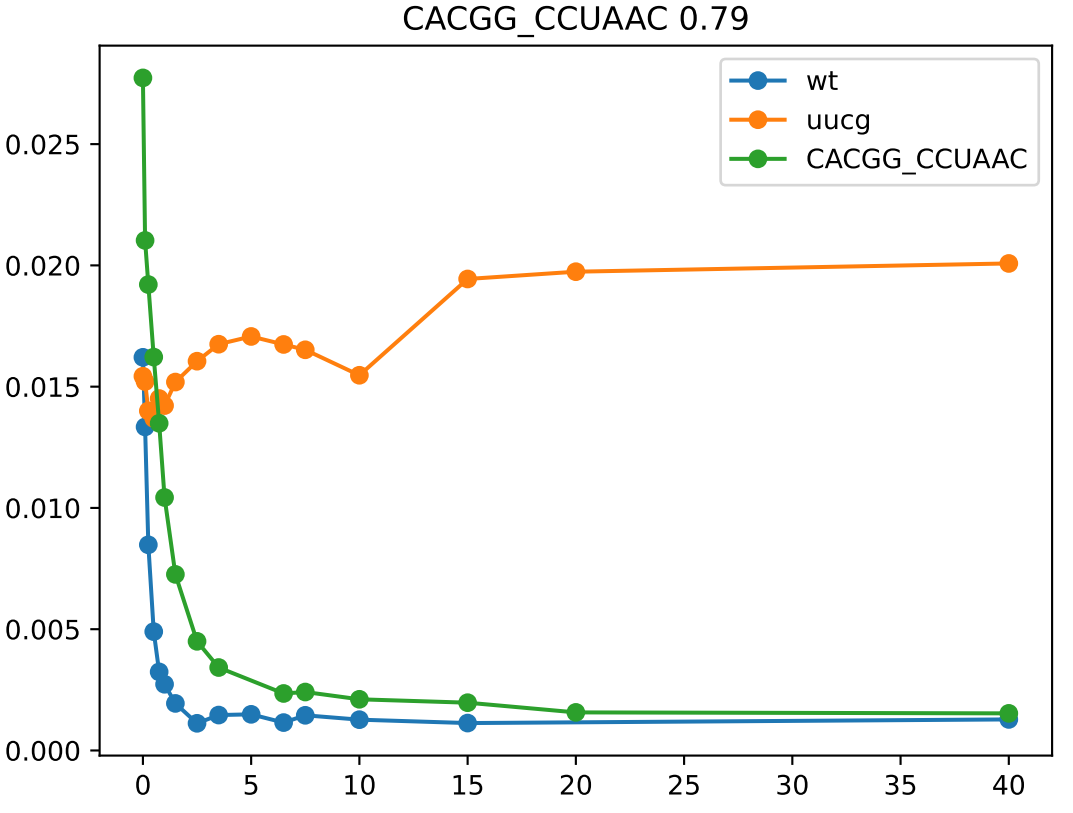

UACGG_CCUAAG 0.55
0.0200
0.0175
0.0150
0.0125
0.0100
0.0075
0.0050
0.0025
0
5
10
15
20
25
30
35
40
wt
uucg
UACGG_CCUAAG

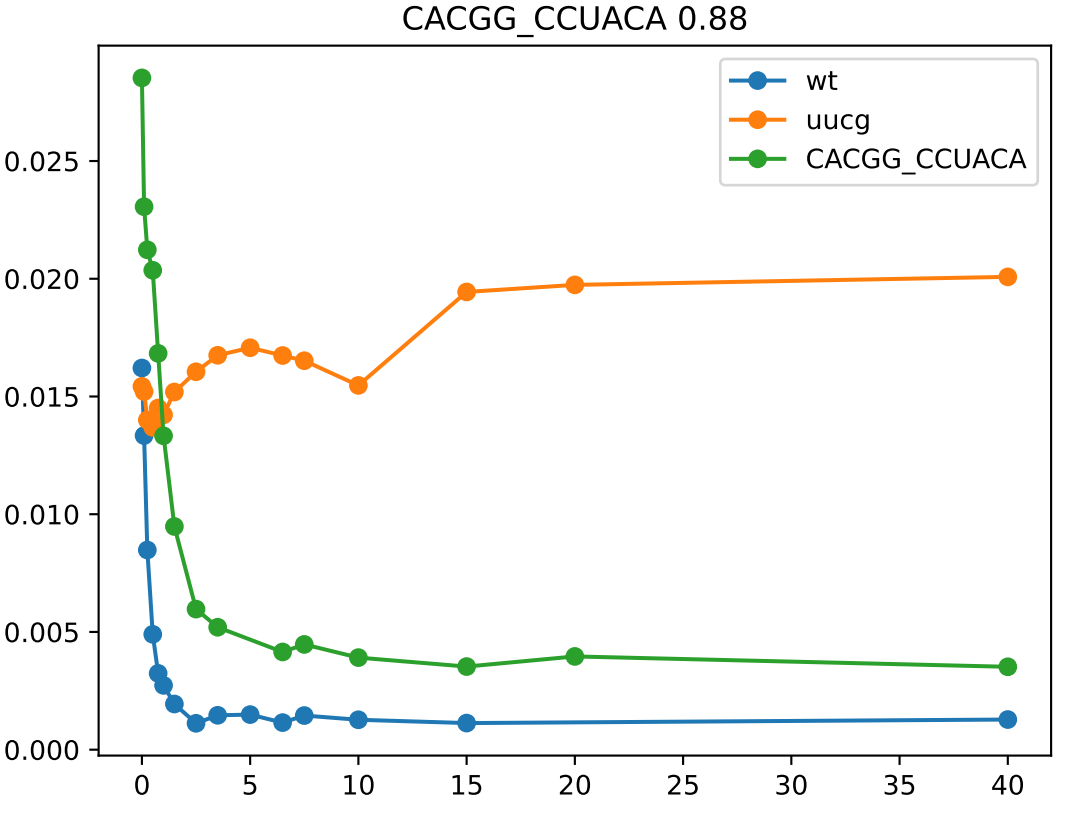

CAAGG_CCUAAC 0.55
0.0225
0.0200
0.0175
0.0150
0.0125
0.0100
0.0075
0.0050
0.0025
0
5
10
15
20
25
30
35
40
wt
uucg
CAAGG_CCUAAC

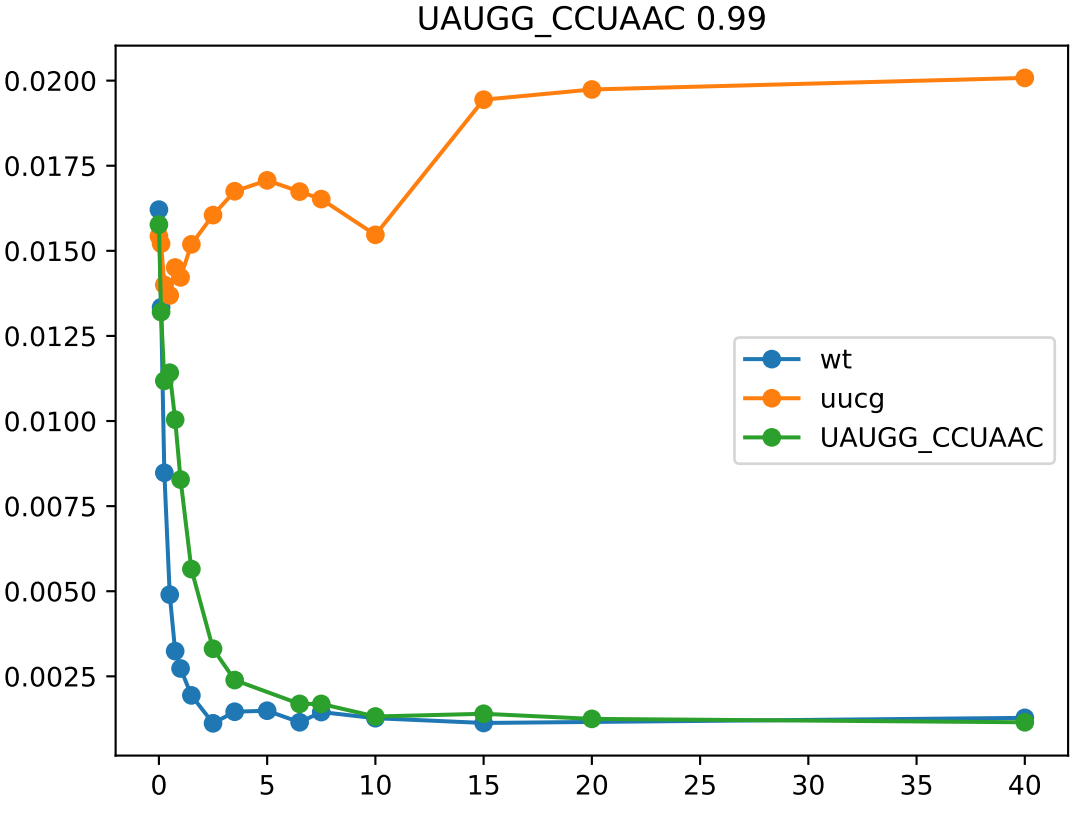

CAAGG_CCUAAA 0.61
0.0200
0.0175
0.0150
0.0125
0.0100
0.0075
0.0050
0.0025
0.0000
0
5
10
15
20
25
30
35
40
wt
uucg
CAAGG_CCUAAA

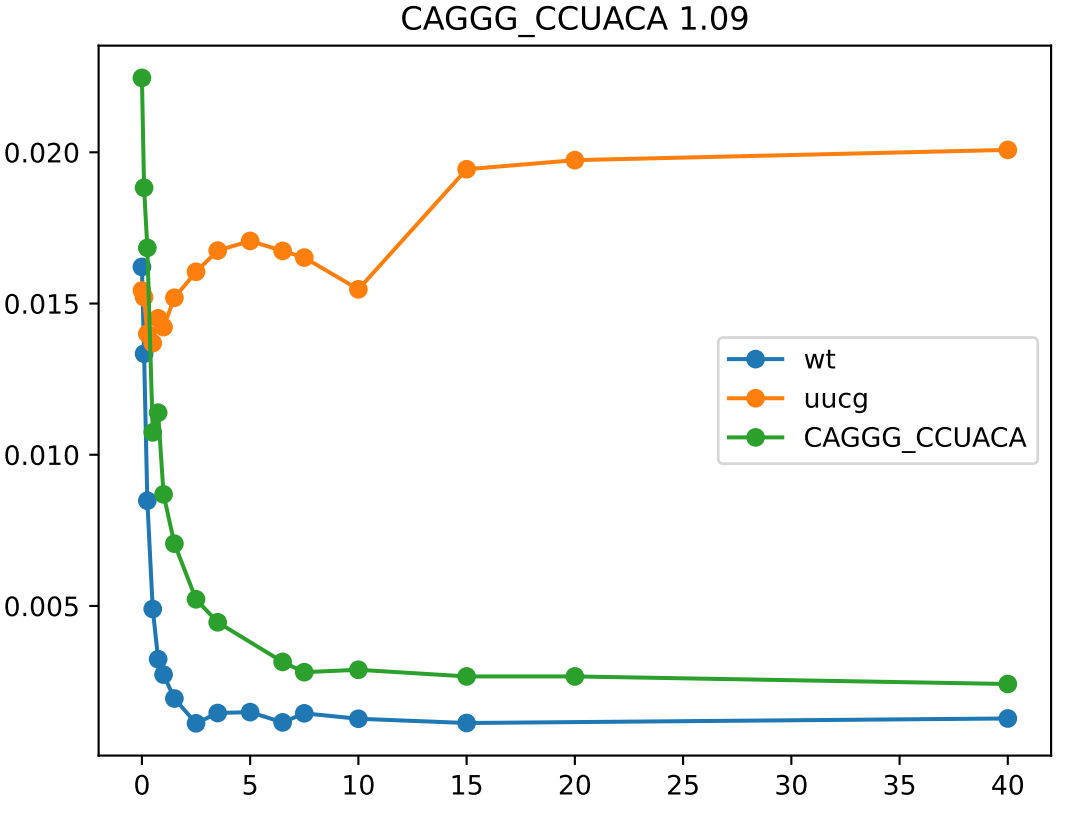

UACGC_GCUAAG 0.66
0.0200
0.0175
0.0150
0.0125
0.0100
0.0075
0.0050
0.0025
0
5
10
15
20
25
30
35
40
wt
uucg
UACGC_GCUAAG

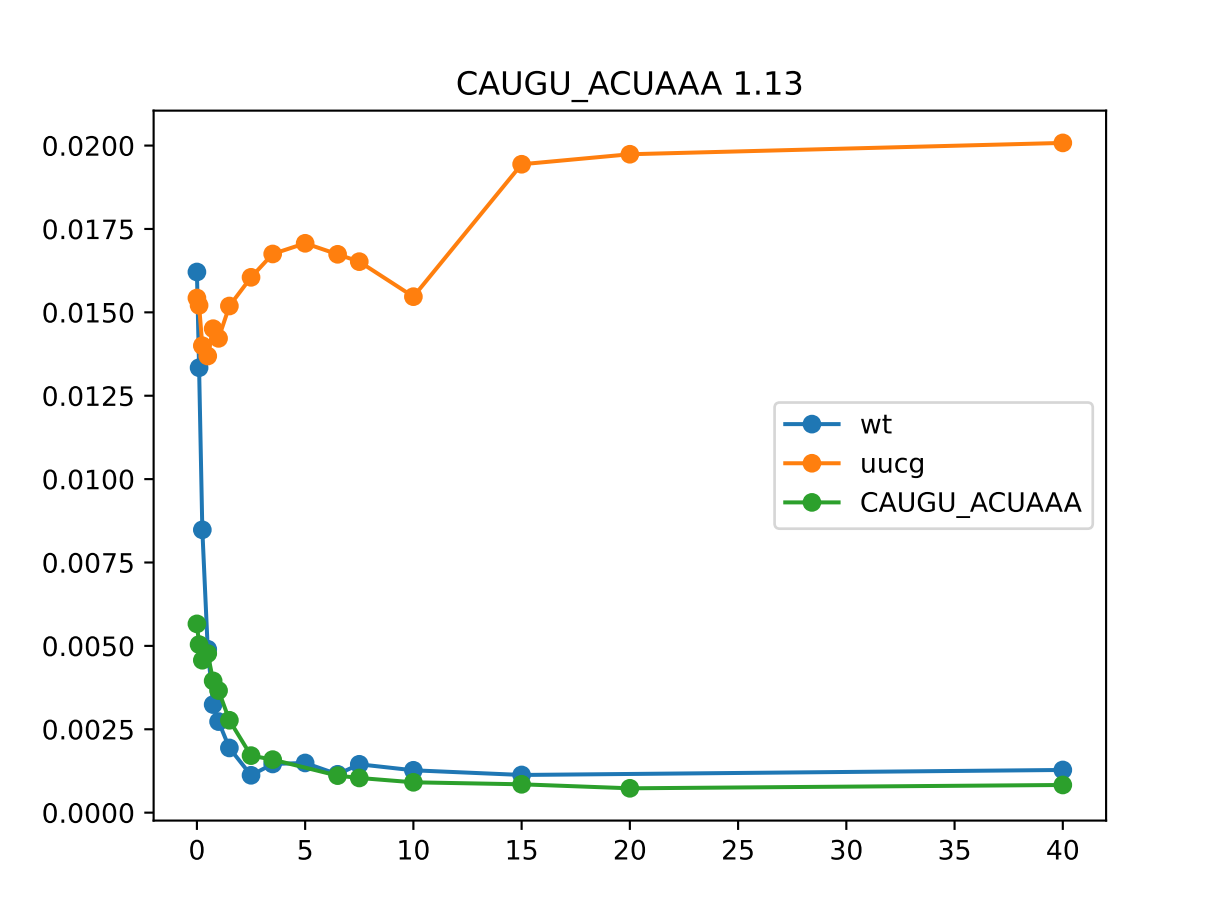

CAUGG_CCUAAC 0.7
0.0200
0.0175
0.0150
0.0125
0.0100
0.0075
0.0050
0.0025
0.0000
0
5
10
15
20
25
30
35
40
wt
uucg
CAUGG_CCUAAC

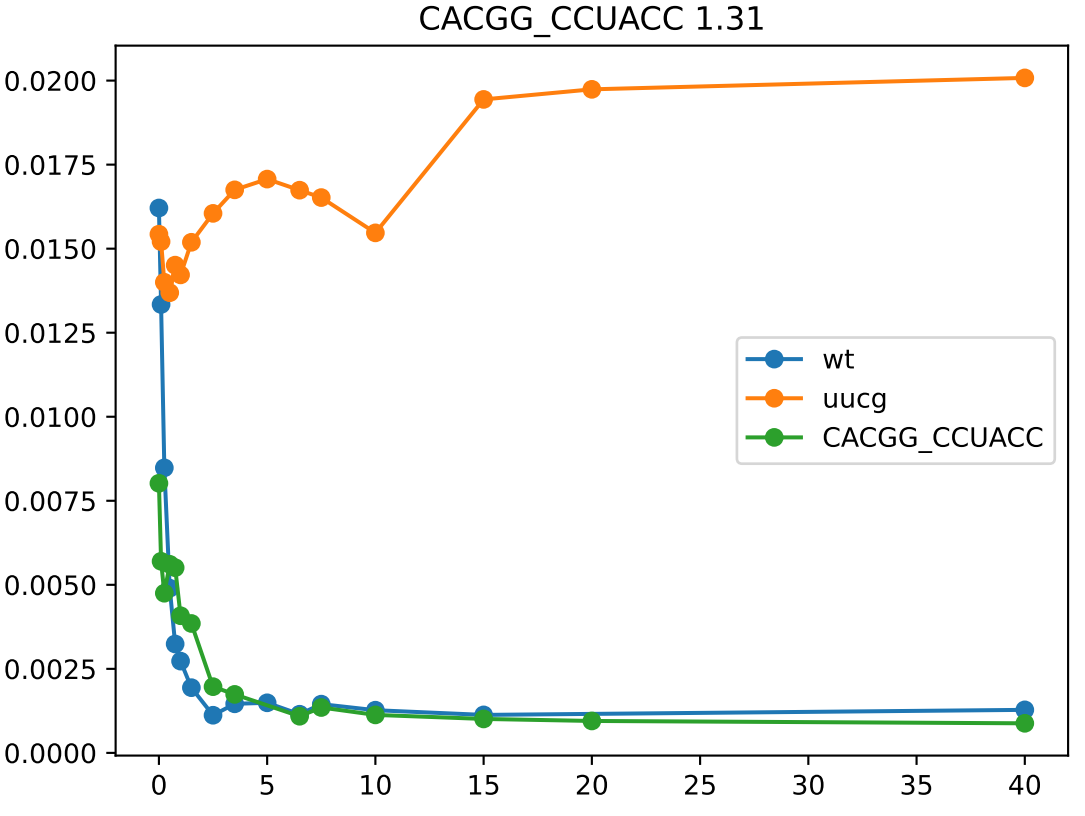

CACGG_CCUAAC 0.79
wt
uucg
CACGG_CCUAAC
0.025
0.020
0.015
0.010
0.005
0.000
0
5
10
15
20
25
30
35
40

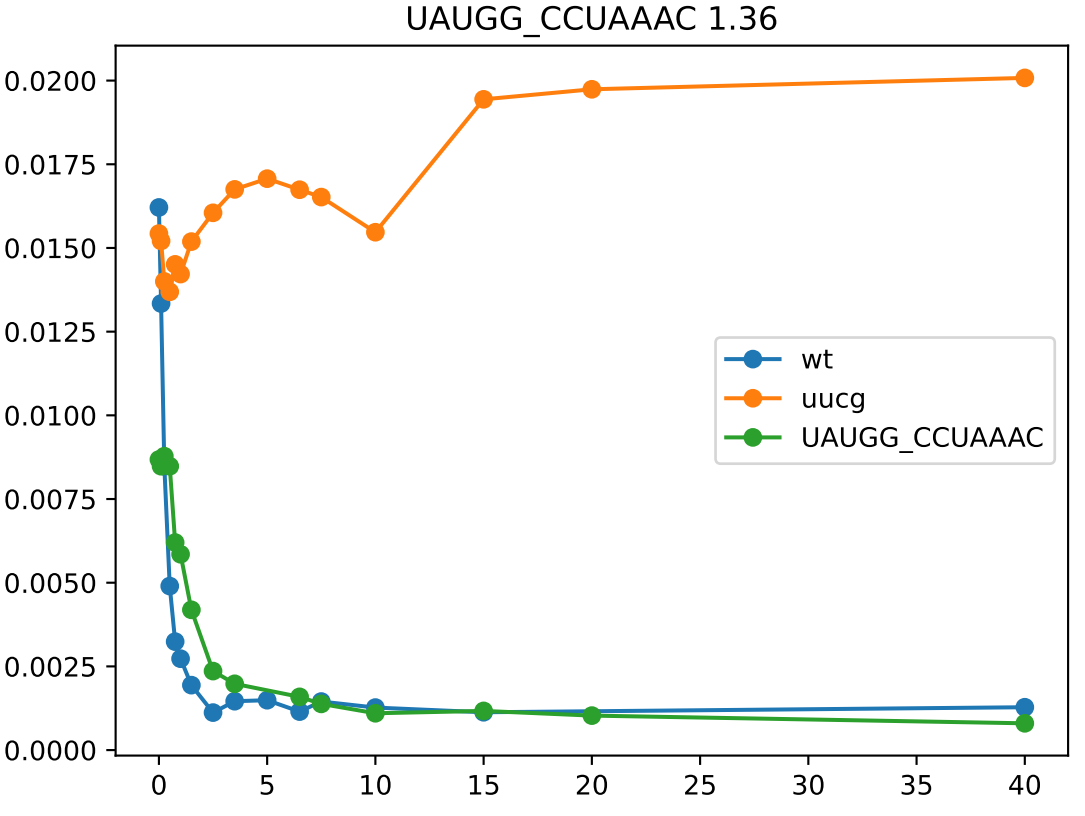

CACGG_CCUACA 0.88
wt
uucg
CACGG_CCUACA
0.025
0.020
0.015
0.010
0.005
0.000
0
5
10
15
20
25
30
35
40

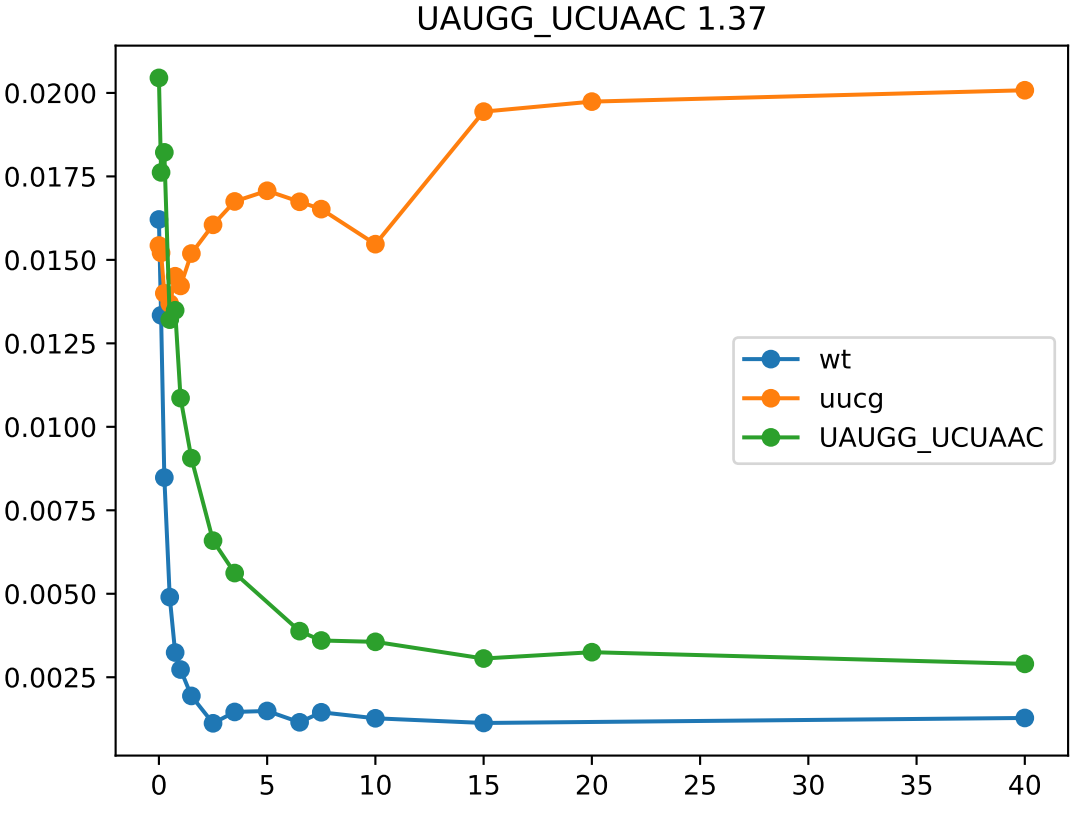

UAUGG_CCUAAC 0.99
0.0200
0.0175
0.0150
0.0125
0.0100
0.0075
0.0050
0.0025
0
5
10
15
20
25
30
35
40
wt
uucg
UAUGG_CCUAAC

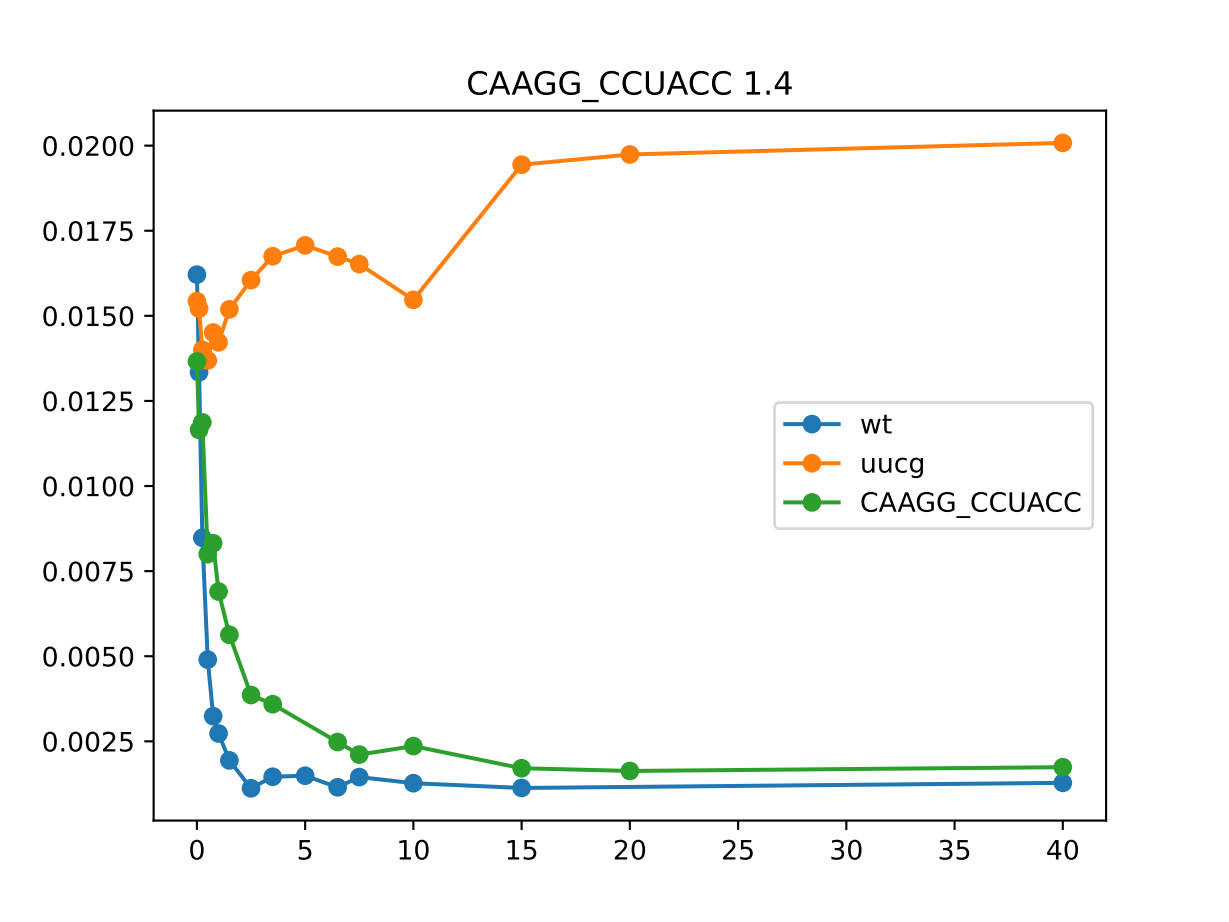

CAGGG_CCUACA 1.09
0.020
0.015
0.010
0.005
0
5
10
15
20
25
30
35
40
wt
uucg
CAGGG_CCUACA

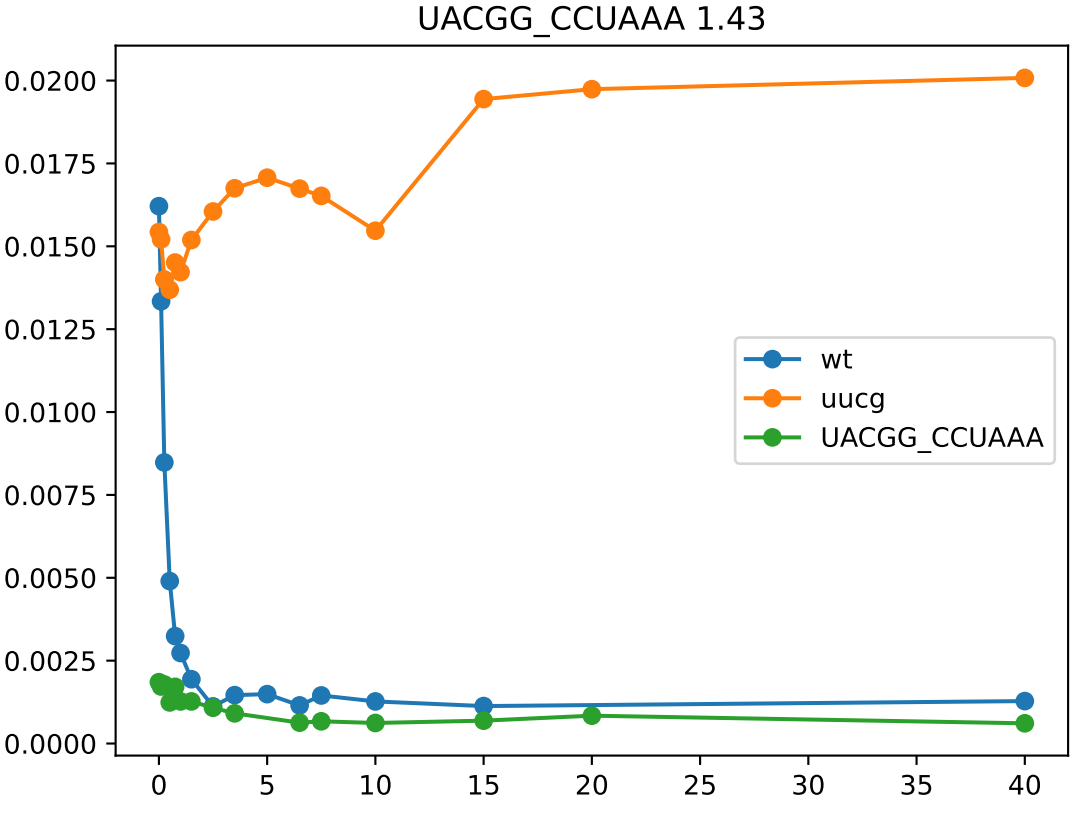

CAUGU_ACUAAA 1.13
0.0200
0.0175
0.0150
0.0125
0.0100
0.0075
0.0050
0.0025
0.0000
0
5
10
15
20
25
30
35
40
wt
uucg
CAUGU_ACUAAA

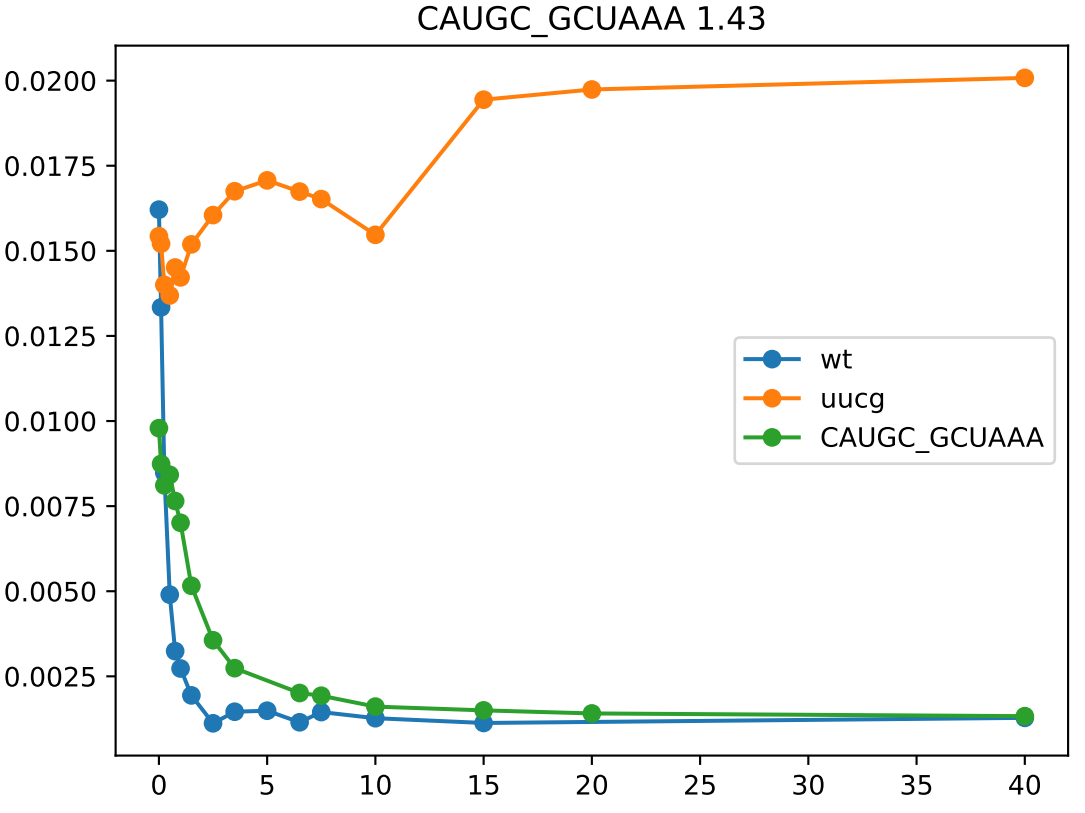

CACGG_CCUACC 1.31
0.0200
0.0175
0.0150
0.0125
0.0100
0.0075
0.0050
0.0025
0.0000
0
5
10
15
20
25
30
35
40
wt
uucg
CACGG_CCUACC

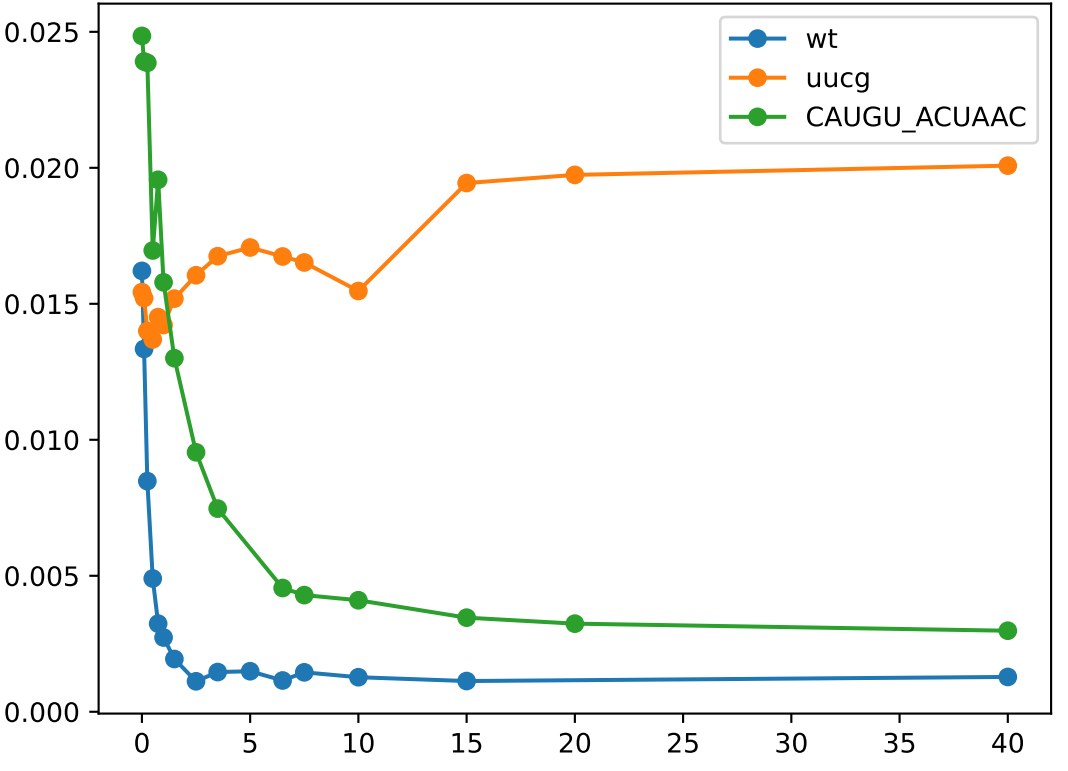

UAUGG_CCUAAAC 1.36
0.0200
0.0175
0.0150
0.0125
0.0100
0.0075
0.0050
0.0025
0.0000
0
5
10
15
20
25
30
35
40
wt
uucg
UAUGG_CCUAAAC

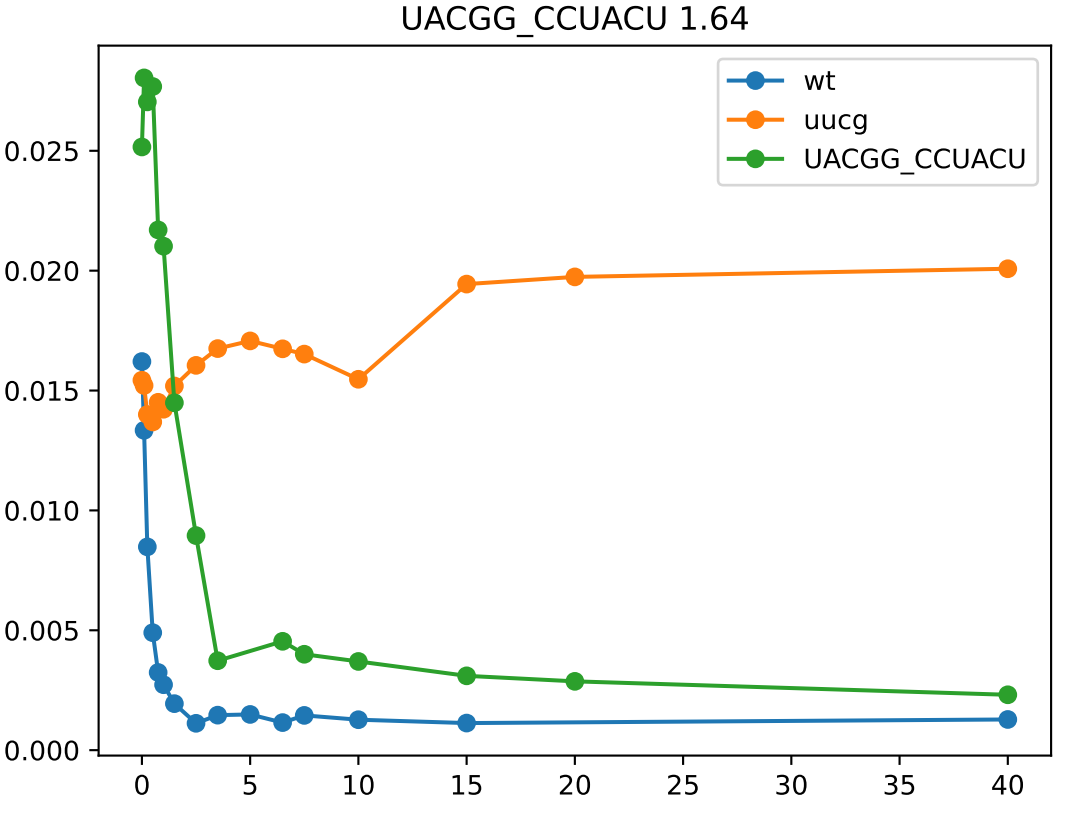

UAUGG_UCUAAC 1.37
0.0200
0.0175
0.0150
0.0125
0.0100
0.0075
0.0050
0.0025
0
5
10
15
20
25
30
35
40
wt
uucg
UAUGG_UCUAAC

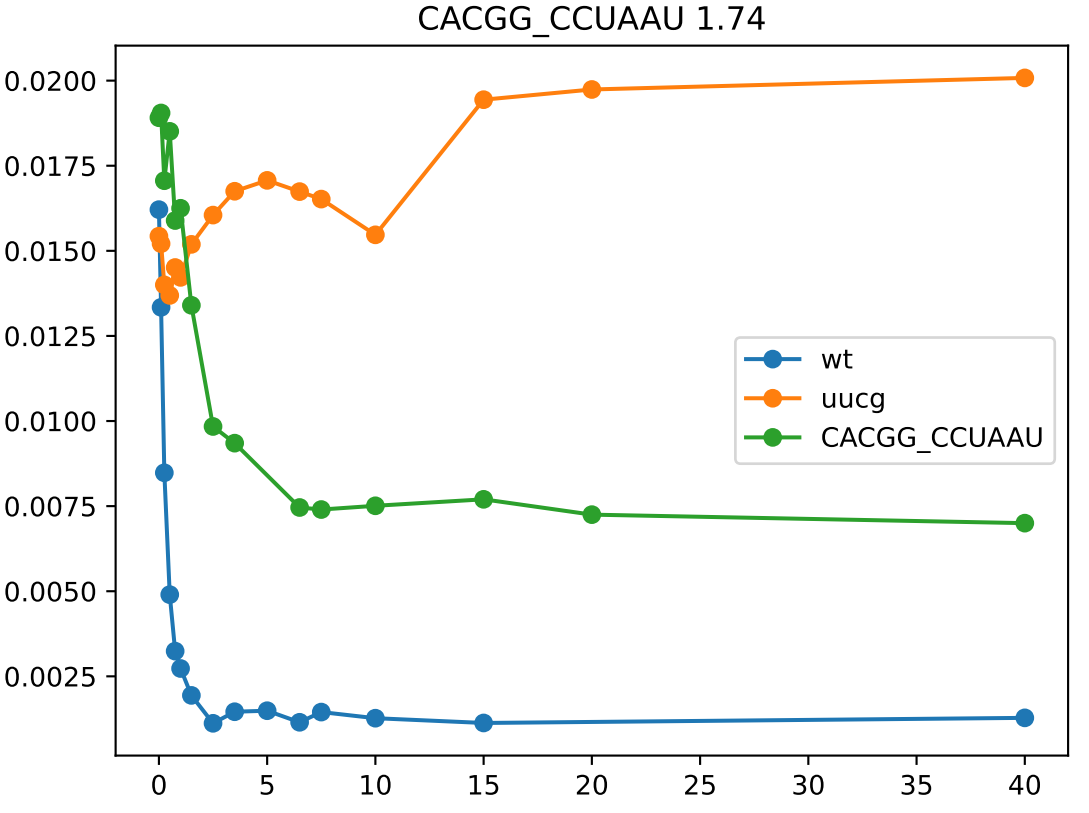

CAAGG_CCUACC 1.4
0.0200
0.0175
0.0150
0.0125
0.0100
0.0075
0.0050
0.0025
0
5
10
15
20
25
30
35
40
wt
uucg
CAAGG_CCUACC

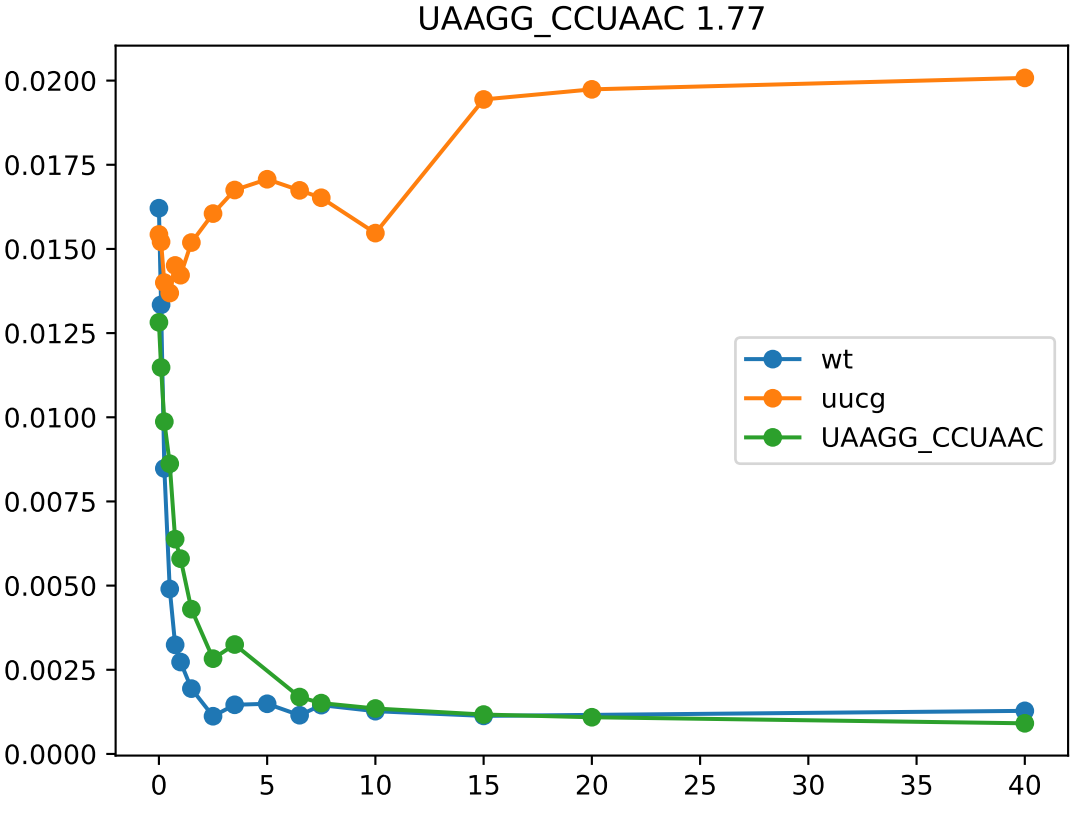

UACGG_CCUAAA 1.43
0.0200
0.0175
0.0150
0.0125
0.0100
0.0075
0.0050
0.0025
0.0000
0
5
10
15
20
25
30
35
40
wt
uucg
UACGG_CCUAAA

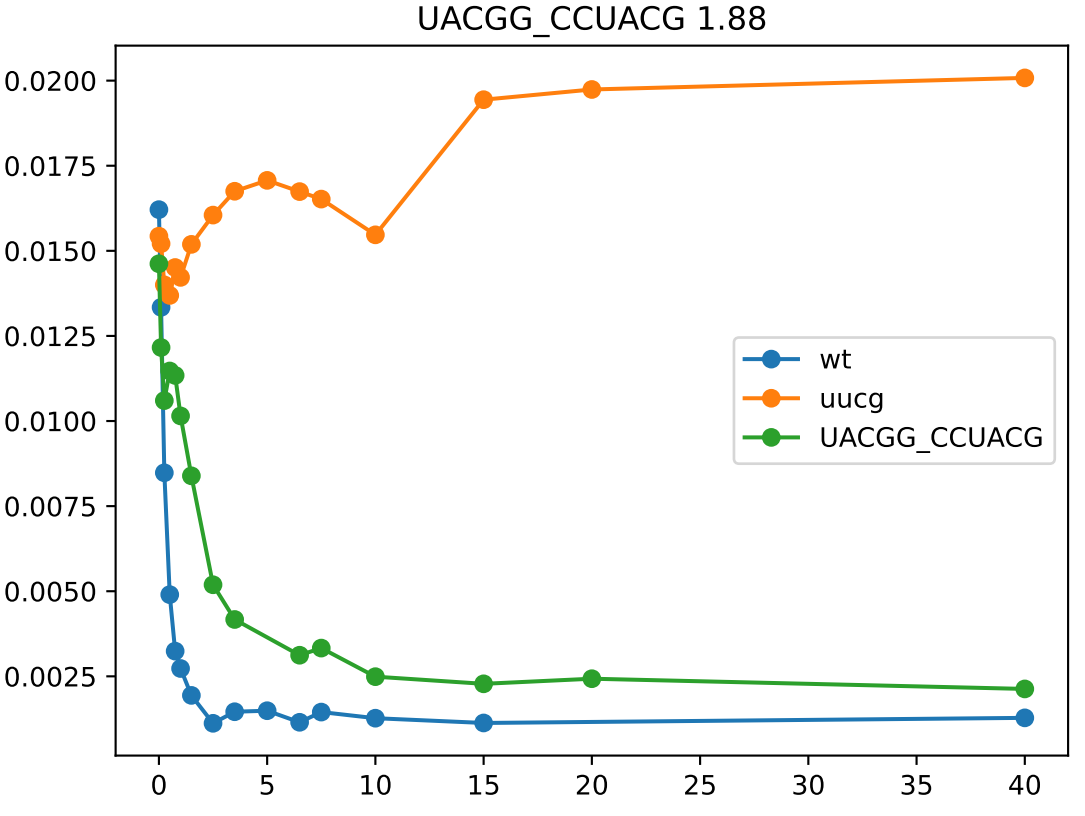

CAUGC_GCUAAA 1.43
0.0200
0.0175
0.0150
0.0125
0.0100
0.0075
0.0050
0.0025
0
5
10
15
20
25
30
35
40
wt
uucg
CAUGC_GCUAAA

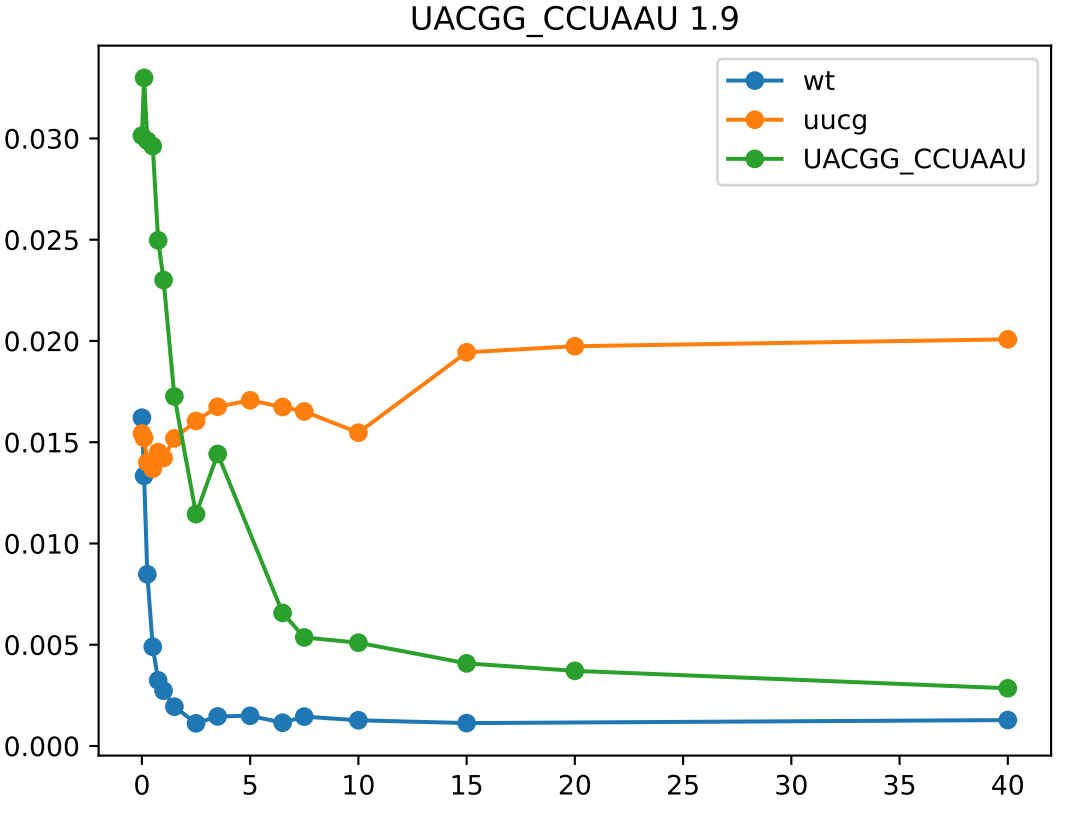

CAUGU_ACUAAC 1.48
wt
uucg
CAUGU_ACUAAC
0.025
0.020
0.015
0.010
0.005
0.000
0
5
10
15
20
25
30
35
40

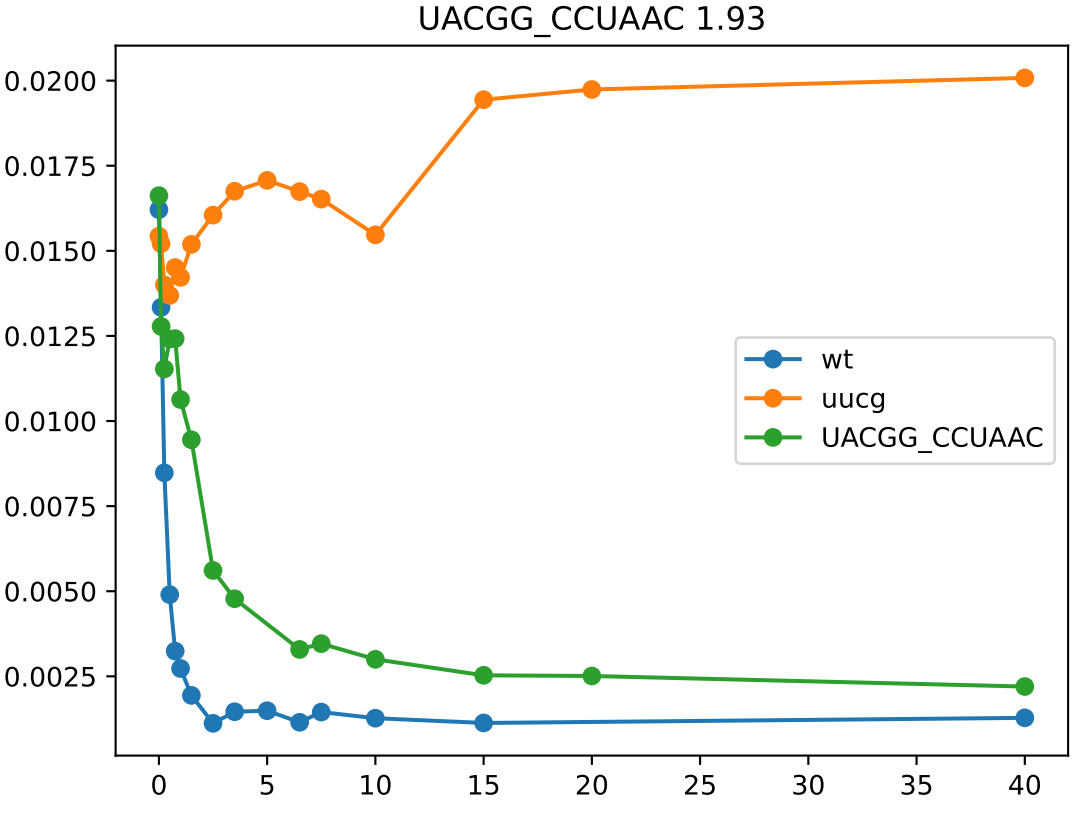

UACGG_CCUACU 1.64
wt
uucg
UACGG_CCUACU
0.025
0.020
0.015
0.010
0.005
0.000
0
5
10
15
20
25
30
35
40

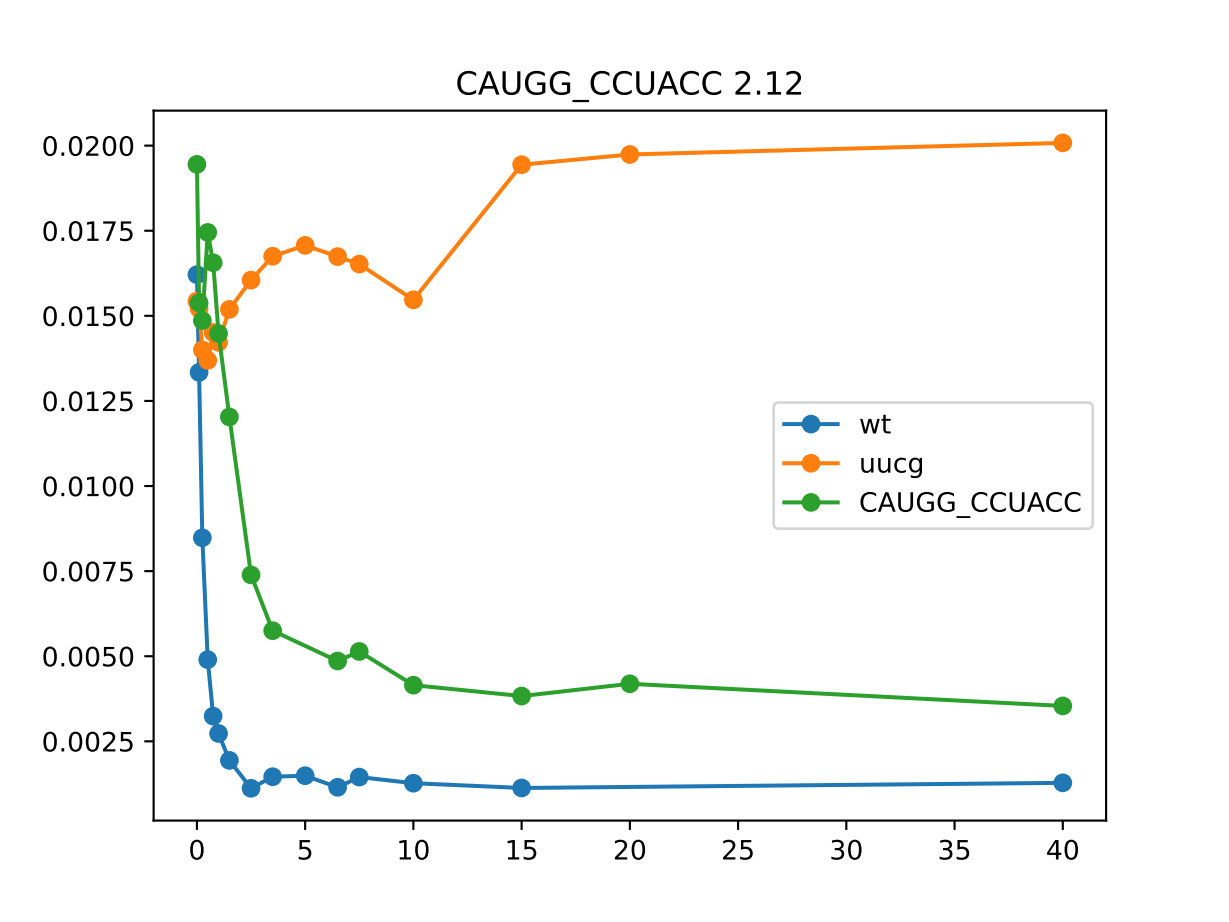

CACGG_CCUAAU 1.74
0.0200
0.0175
0.0150
0.0125
0.0100
0.0075
0.0050
0.0025
0
5
10
15
20
25
30
35
40
wt
uucg
CACGG_CCUAAU

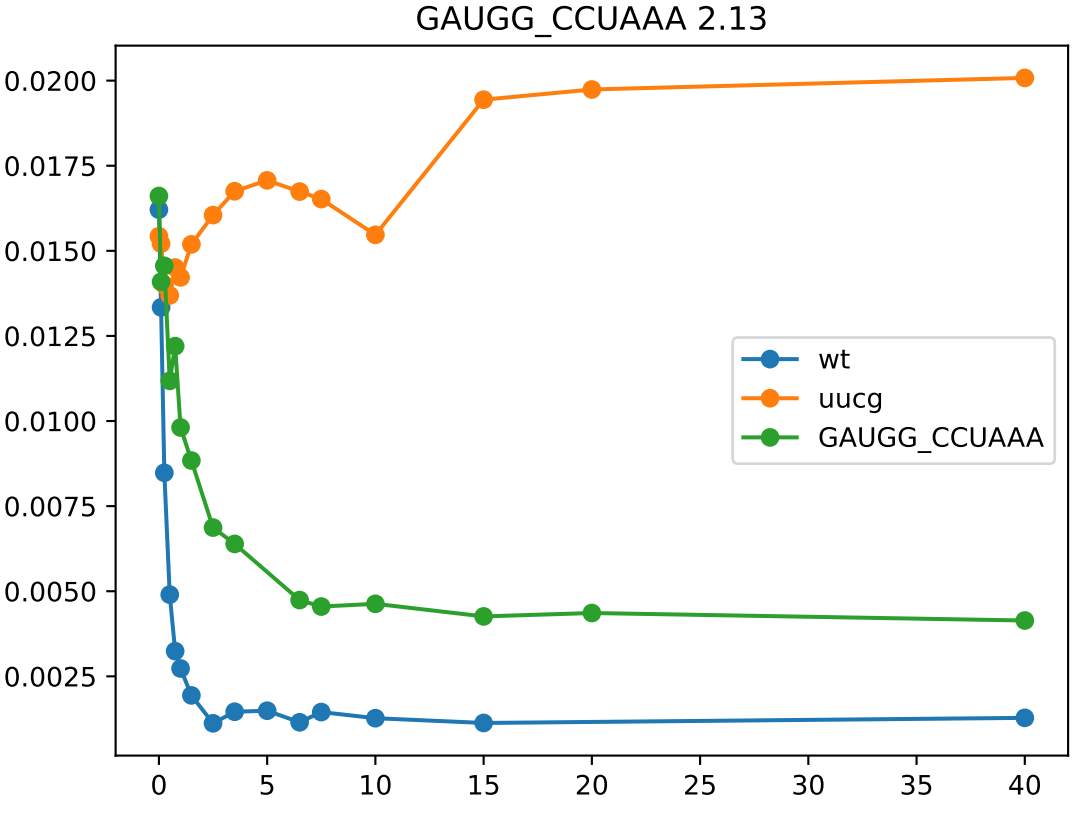

UAAGG_CCUAAC 1.77
0.0200
0.0175
0.0150
0.0125
0.0100
0.0075
0.0050
0.0025
0.0000
0
5
10
15
20
25
30
35
40
wt
uucg
UAAGG_CCUAAC

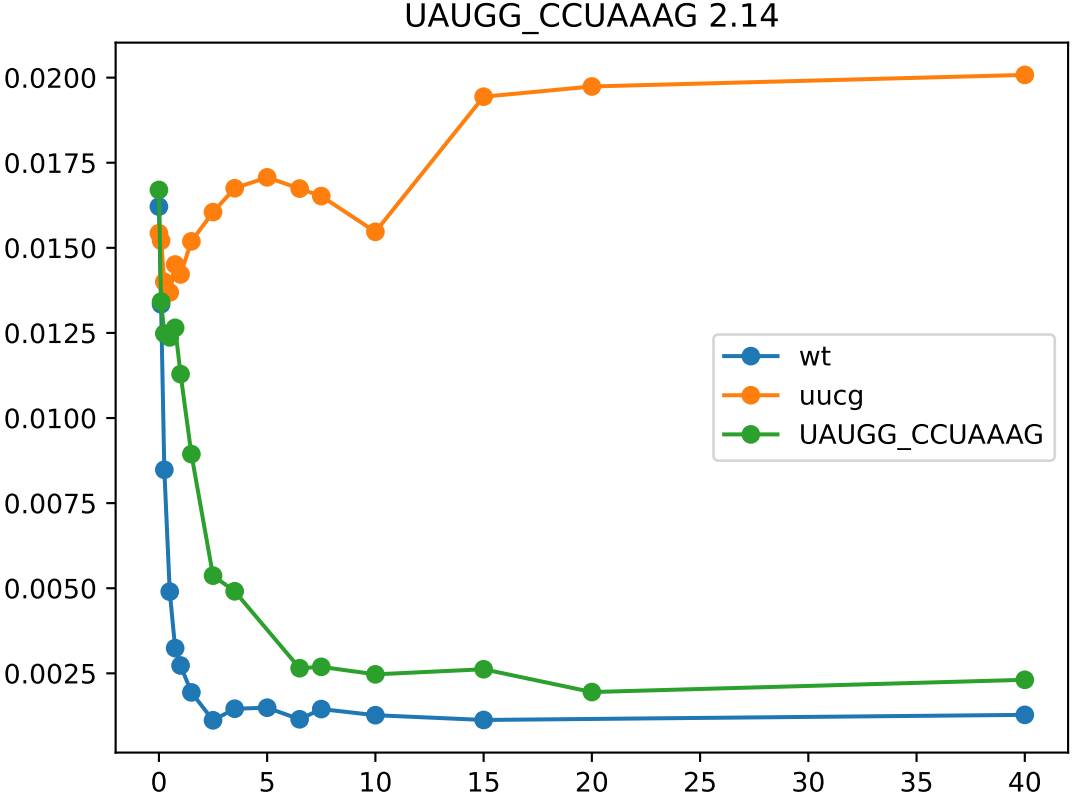

UACGG_CCUACG 1.88
0.0200
0.0175
0.0150
0.0125
0.0100
0.0075
0.0050
0.0025
0
5
10
15
20
25
30
35
40
wt
uucg
UACGG_CCUACG

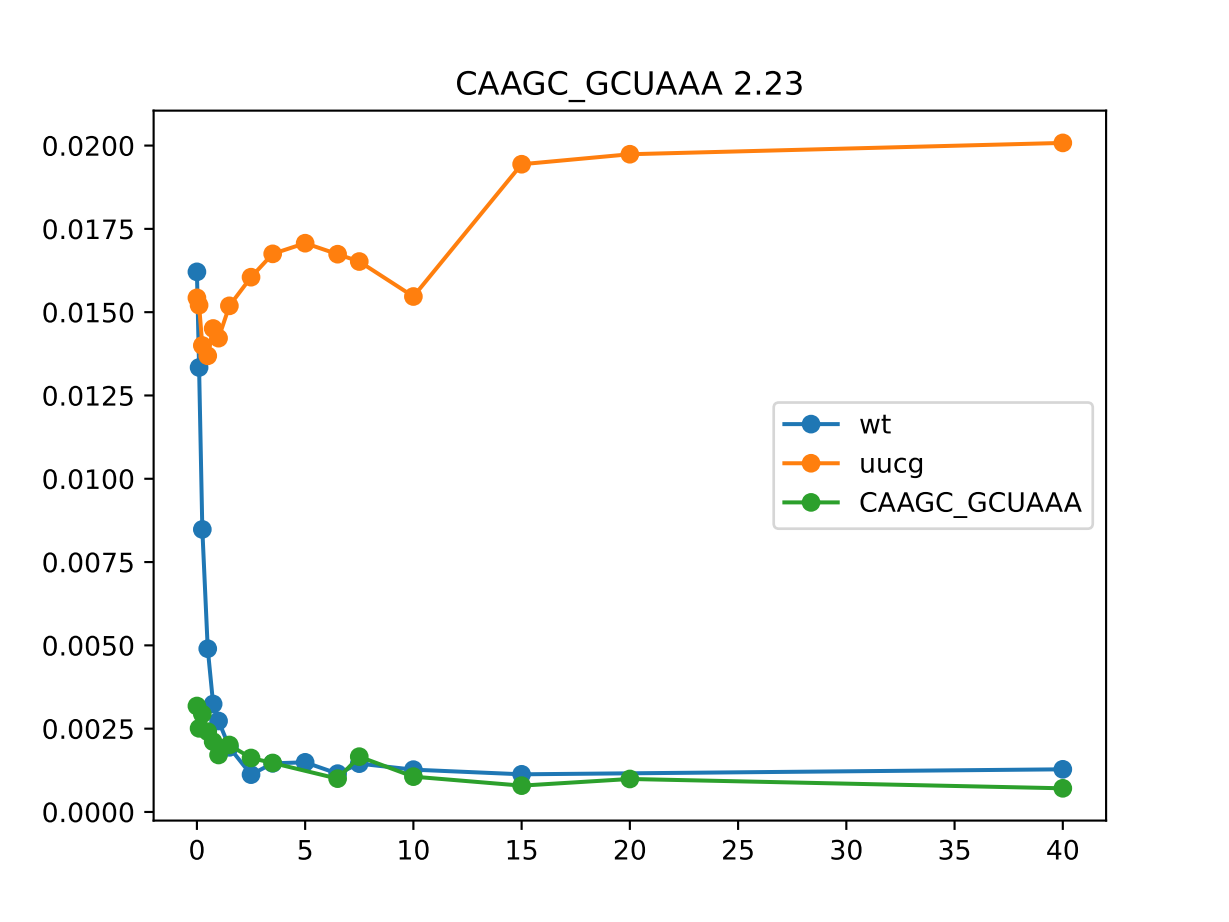

UACGG_CCUAAU 1.9
wt
uucg
UACGG_CCUAAU
0.030
0.025
0.020
0.015
0.010
0.005
0.000
0
5
10
15
20
25
30
35
40

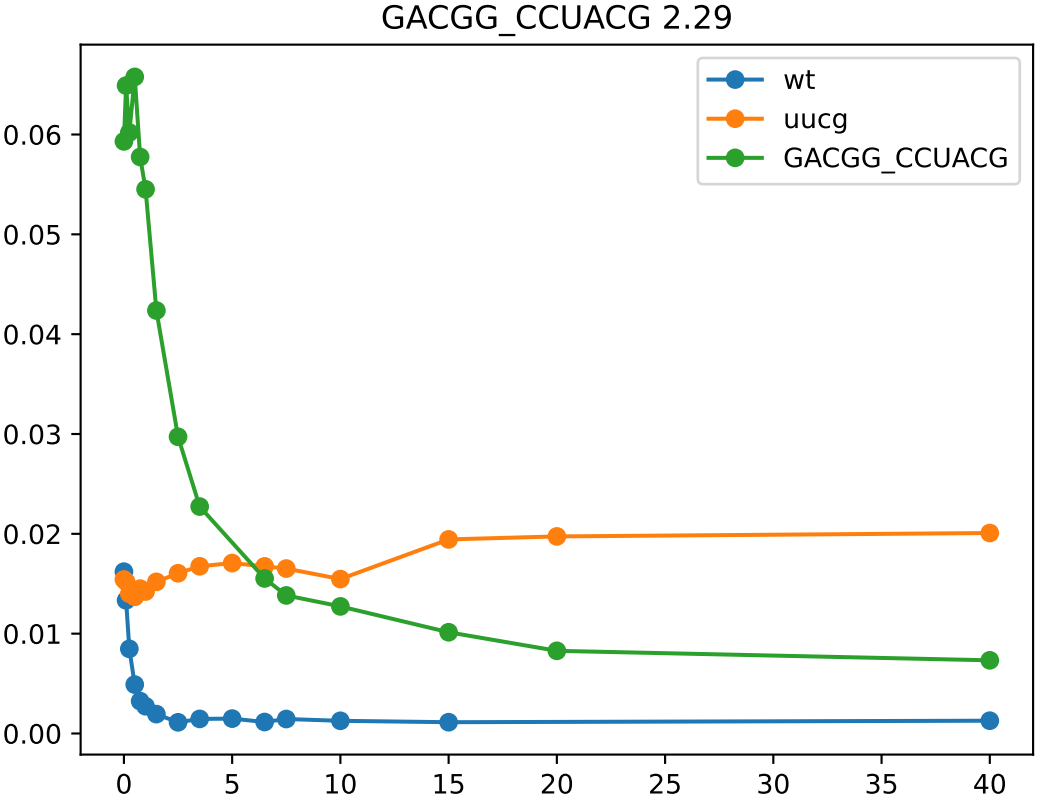

UACGG_CCUAAC 1.93
0.0200
0.0175
0.0150
0.0125
0.0100
0.0075
0.0050
0.0025
0
5
10
15
20
25
30
35
40
wt
uucg
UACGG_CCUAAC

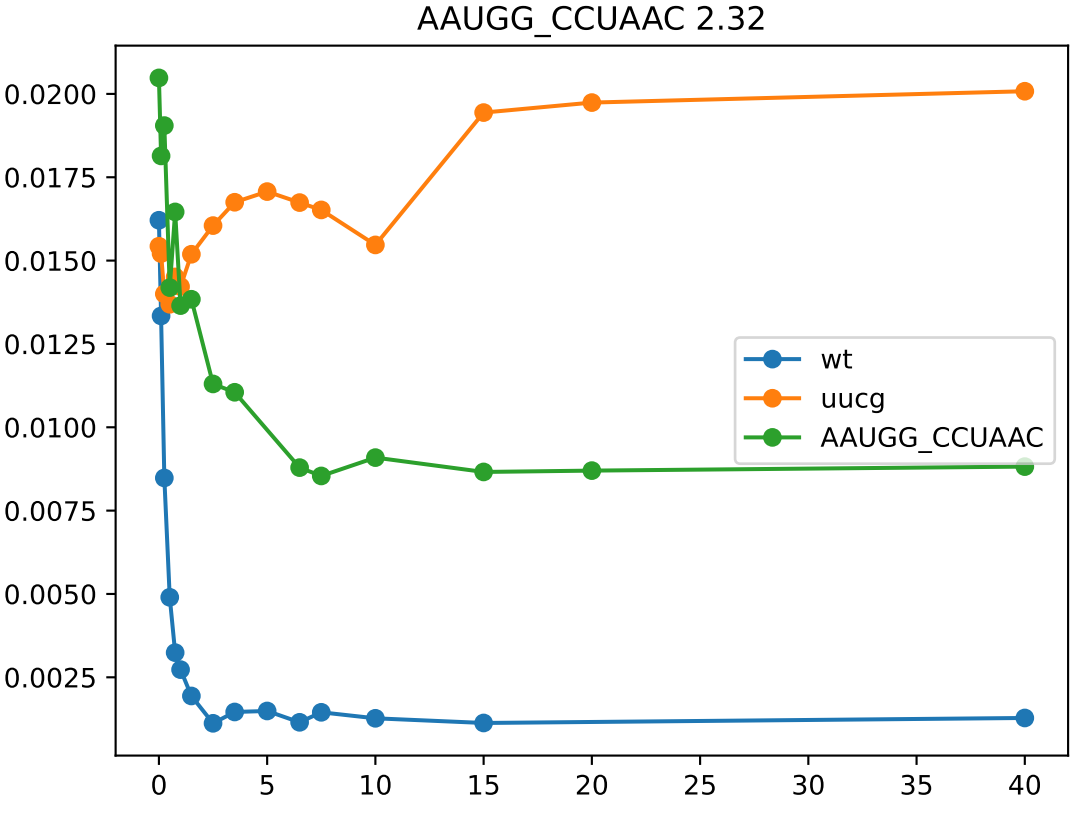

CAUGG_CCUACC 2.12
0.0200
0.0175
0.0150
0.0125
0.0100
0.0075
0.0050
0.0025
0
5
10
15
20
25
30
35
40
wt
uucg
CAUGG_CCUACC

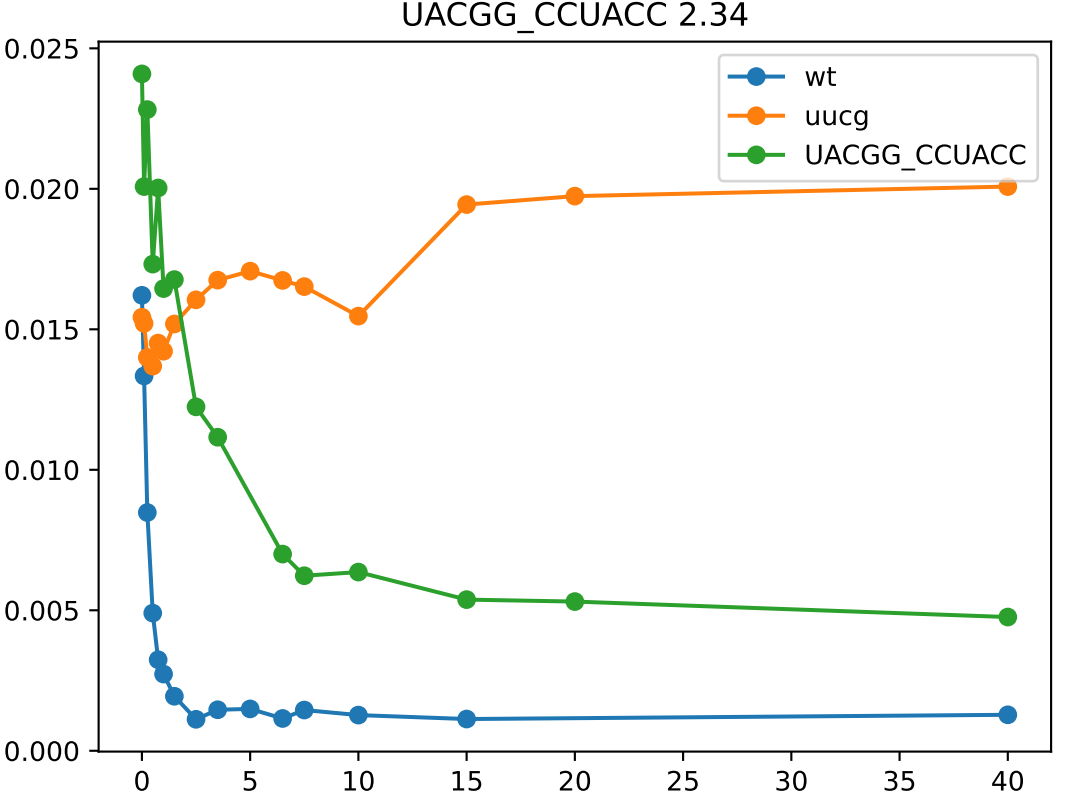

GAUGG_CCUAAA 2.13
0.0200
0.0175
0.0150
0.0125
0.0100
0.0075
0.0050
0.0025
0
5
10
15
20
25
30
35
40
wt
uucg
GAUGG_CCUAAA

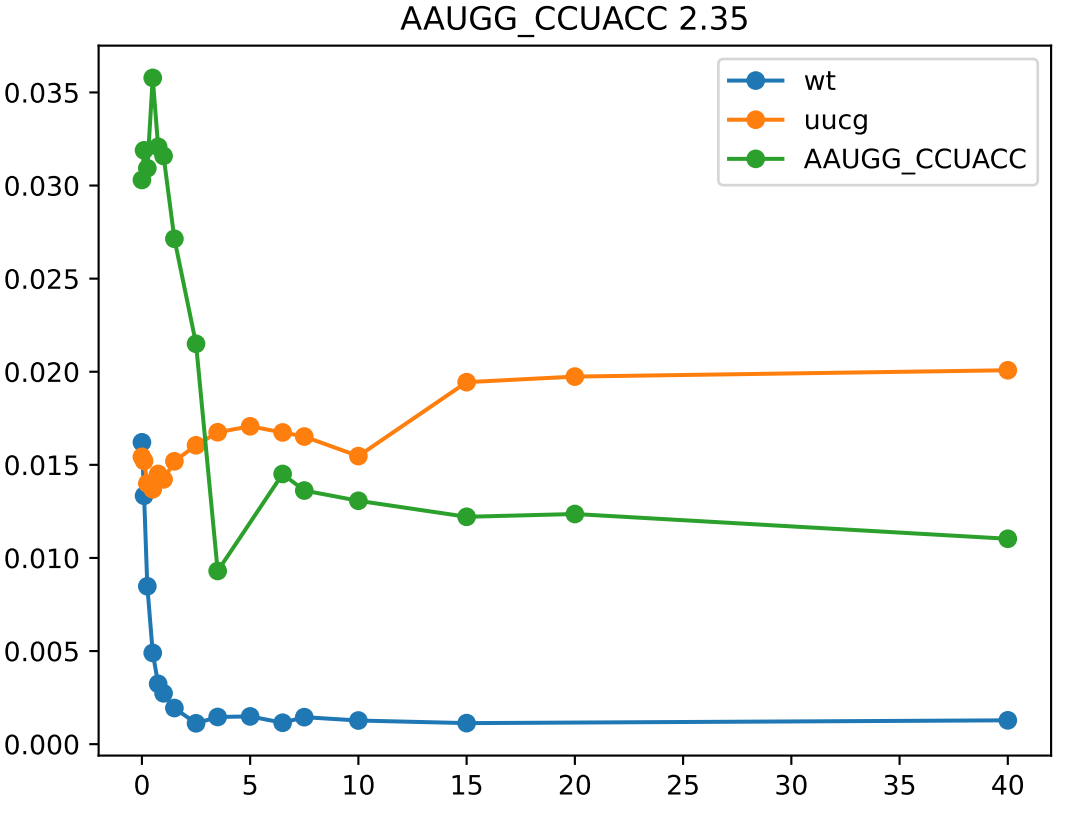

UAUGG_CCUAAAG 2.14
0.0200
0.0175
0.0150
0.0125
0.0100
0.0075
0.0050
0.0025
0
5
10
15
20
25
30
35
40
wt
uucg
UAUGG_CCUAAAG

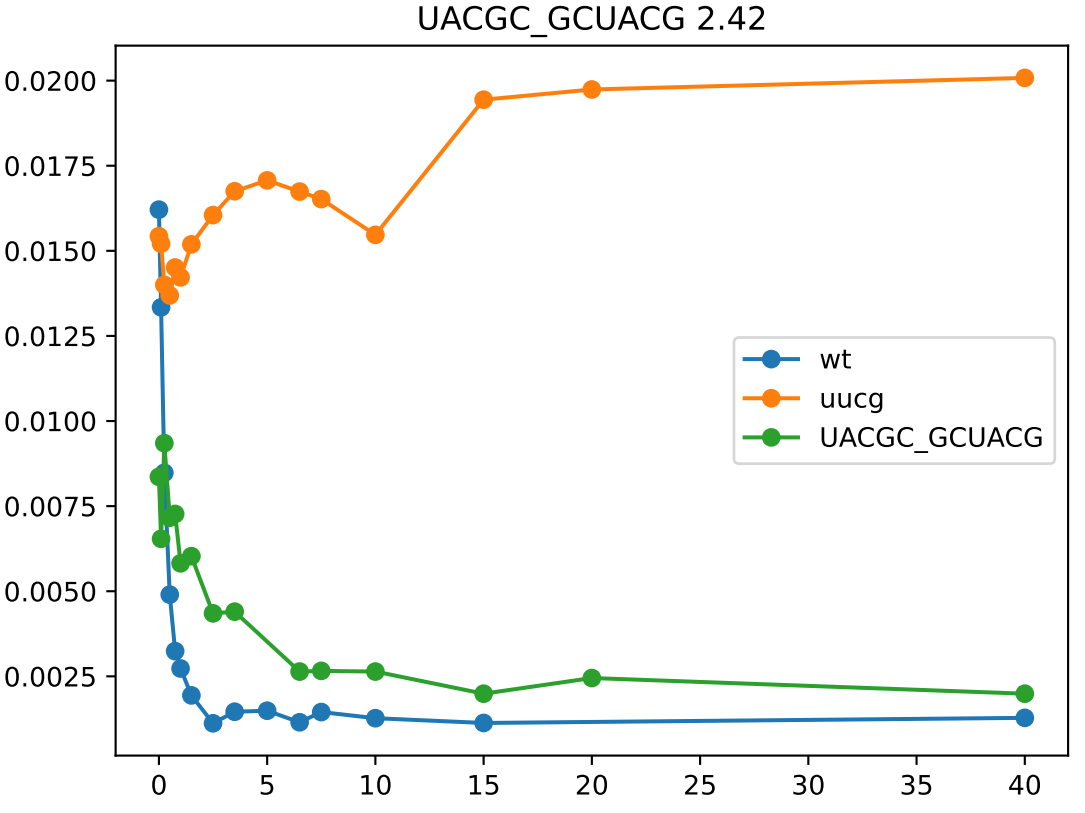

CAAGC_GCUAAA 2.23
0.0200
0.0175
0.0150
0.0125
0.0100
0.0075
0.0050
0.0025
0.0000
0
5
10
15
20
25
30
35
40
wt
uucg
CAAGC_GCUAAA

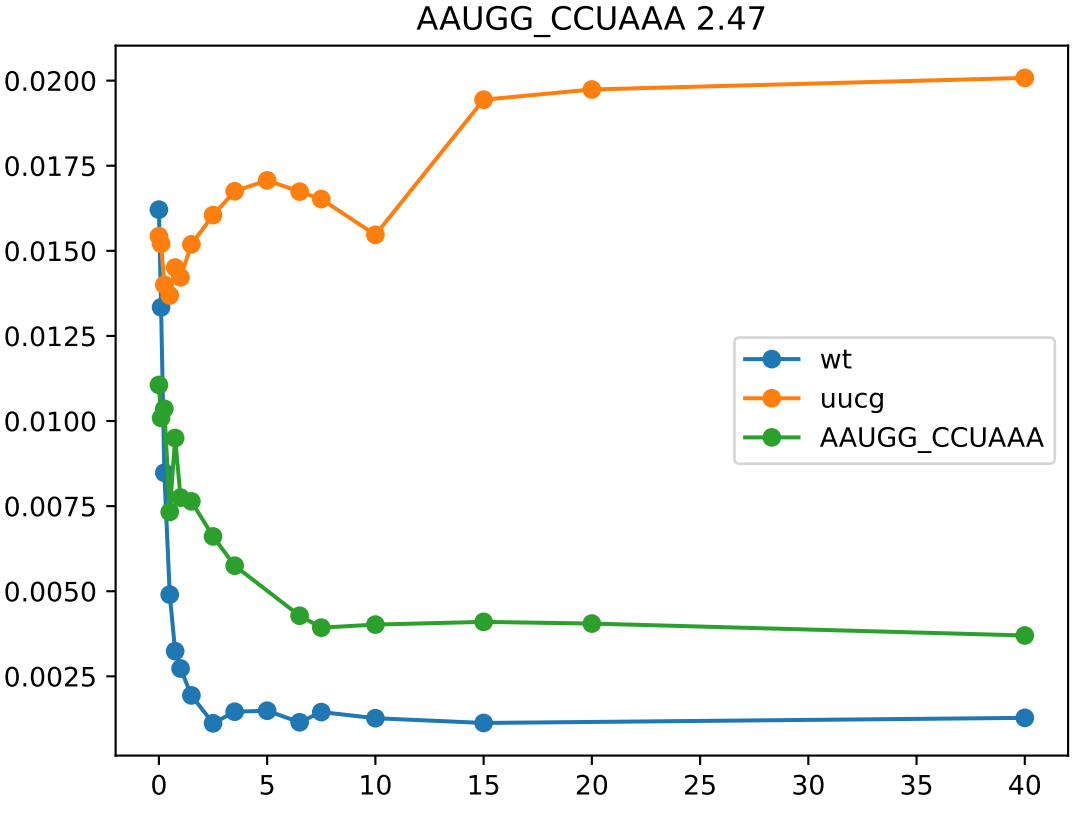

GACGG_CCUACG 2.29
wt
uucg
GACGG_CCUACG
0.06
0.05
0.04
0.03
0.02
0.01
0.00
0
5
10
15
20
25
30
35
40

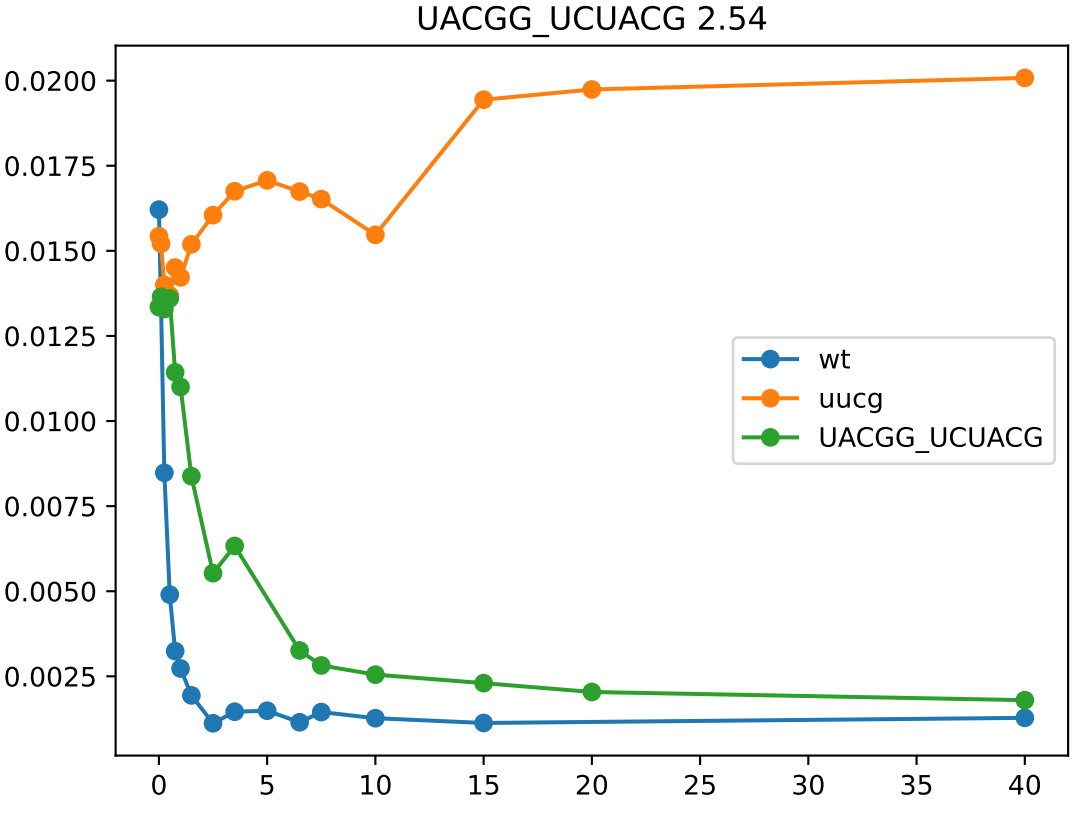

AAUGG_CCUAAC 2.32
0.0200
0.0175
0.0150
0.0125
0.0100
0.0075
0.0050
0.0025
0
5
10
15
20
25
30
35
40
wt
uucg
AAUGG_CCUAAC

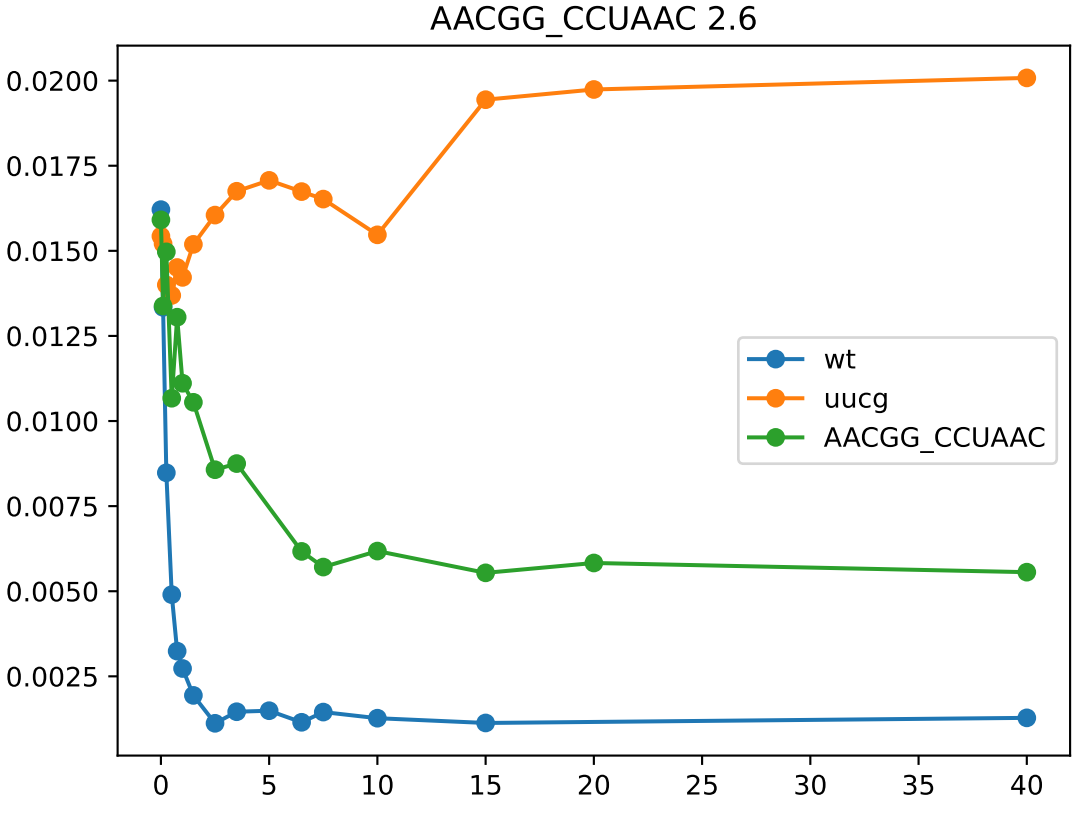

UACGG_CCUACC 2.34
wt
uucg
UACGG_CCUACC
0.025
0.020
0.015
0.010
0.005
0.000
0
5
10
15
20
25
30
35
40

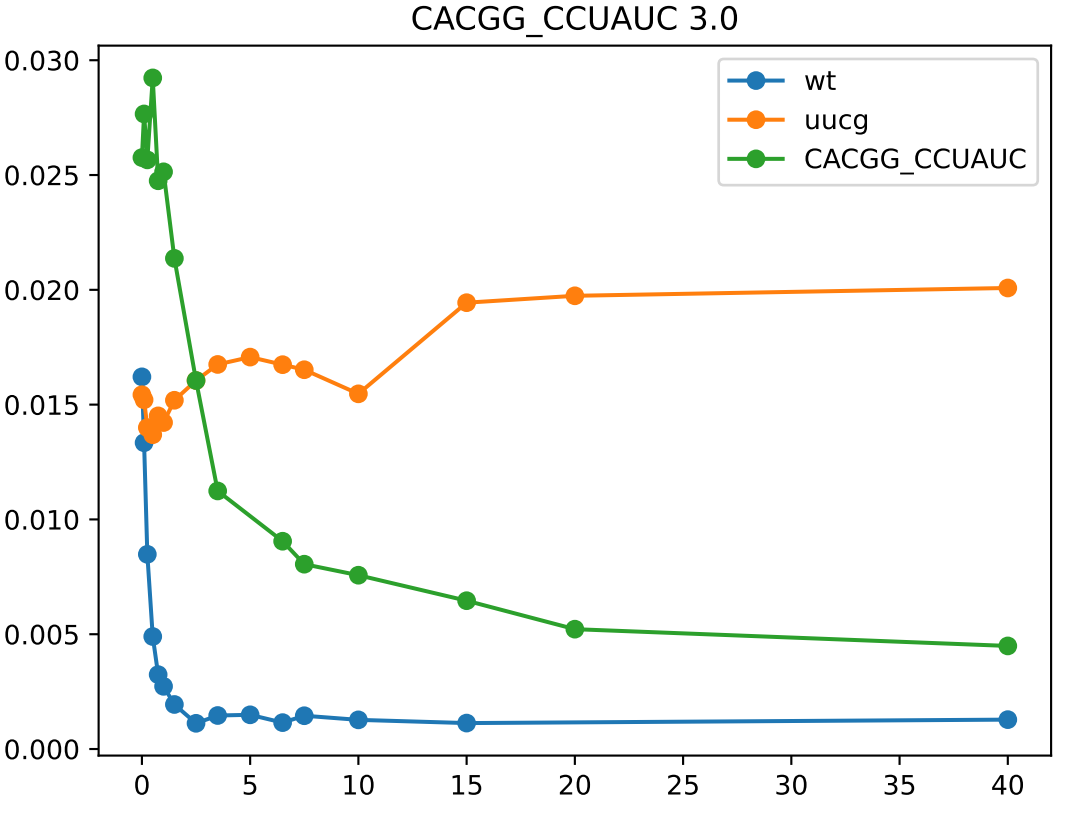

AAUGG_CCUACC 2.35
wt
uucg
AAUGG_CCUACC
0.035
0.030
0.025
0.020
0.015
0.010
0.005
0.000
0
5
10
15
20
25
30
35
40

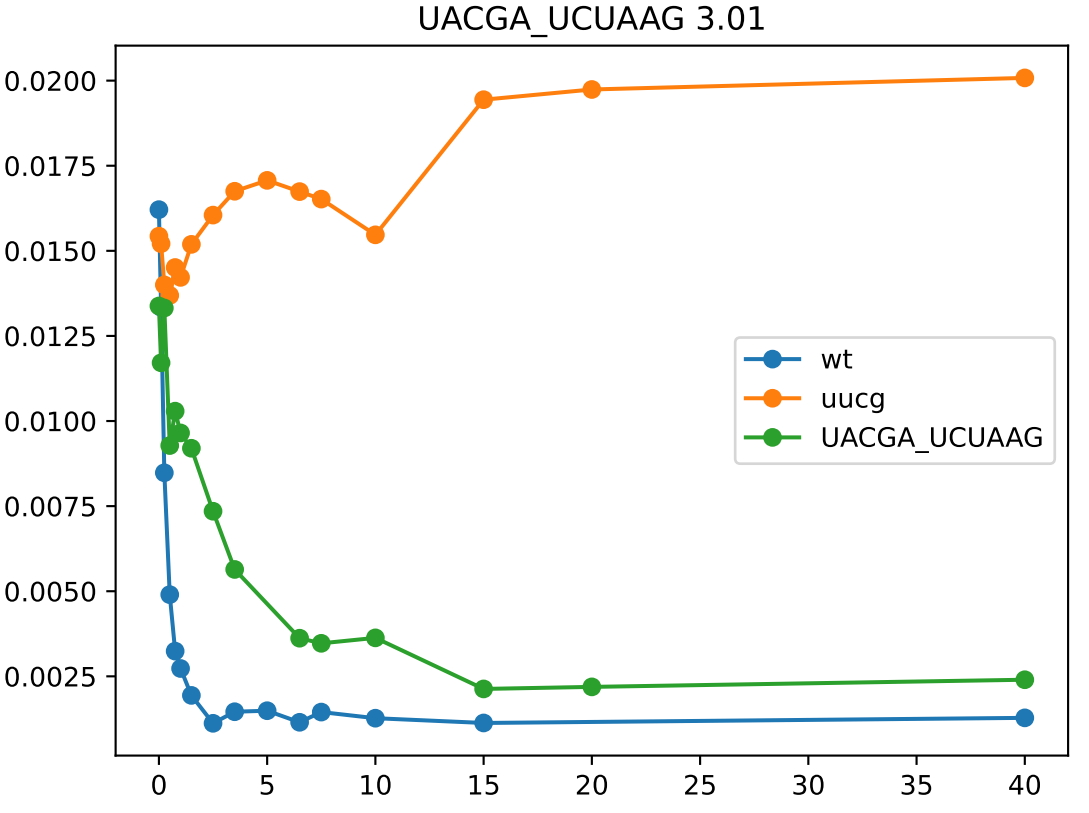

UACGC_GCUACG 2.42
0.0200
0.0175
0.0150
0.0125
0.0100
0.0075
0.0050
0.0025
0
5
10
15
20
25
30
35
40
wt
uucg
UACGC_GCUACG

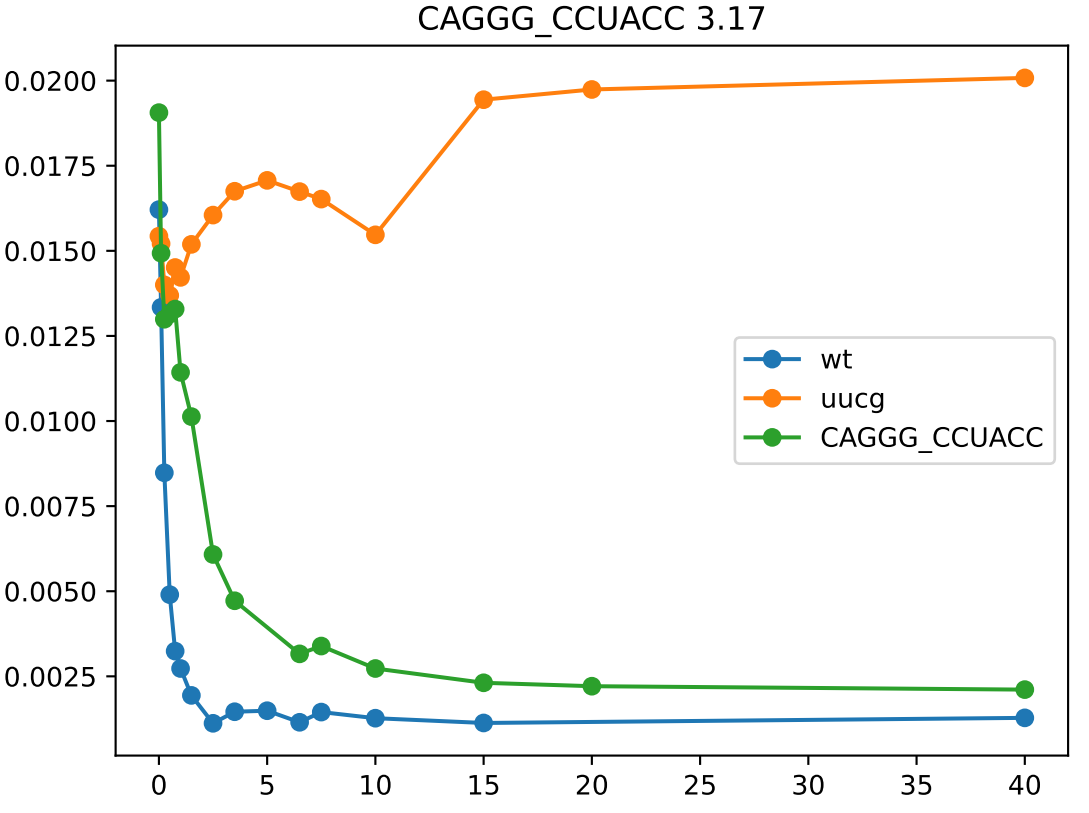

AAUGG_CCUAAA 2.47
0.0200
0.0175
0.0150
0.0125
0.0100
0.0075
0.0050
0.0025
0
5
10
15
20
25
30
35
40
wt
uucg
AAUGG_CCUAAA

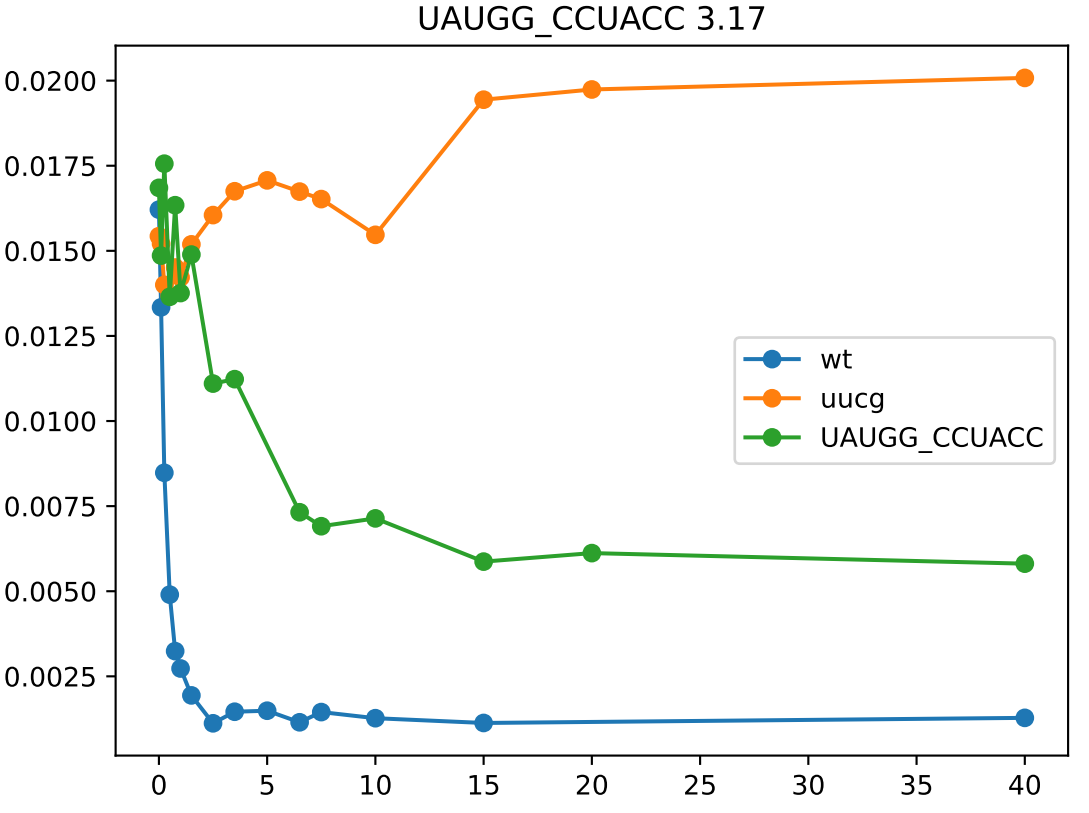

UACGG_UCUACG 2.54
0.0200
0.0175
0.0150
0.0125
0.0100
0.0075
0.0050
0.0025
0
5
10
15
20
25
30
35
40
wt
uucg
UACGG_UCUACG

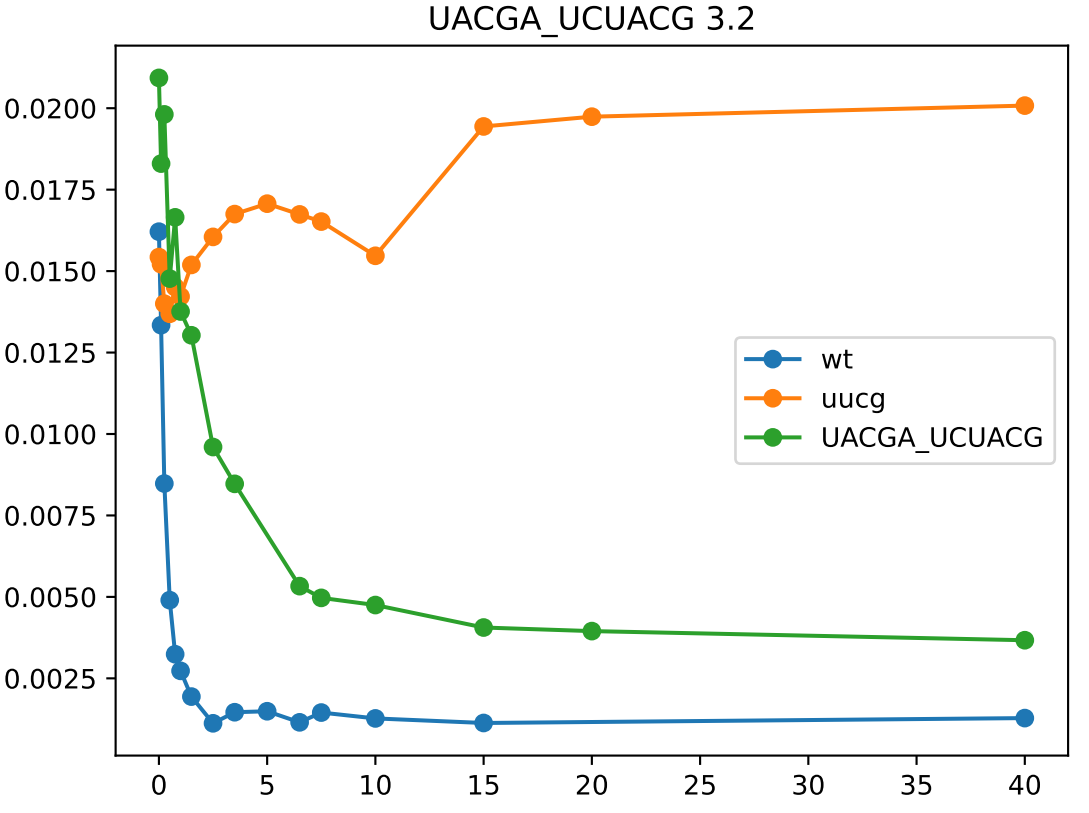

AACGG_CCUAAC 2.6
0.0200
0.0175
0.0150
0.0125
0.0100
0.0075
0.0050
0.0025
0
5
10
15
20
25
30
35
40
wt
uucg
AACGG_CCUAAC

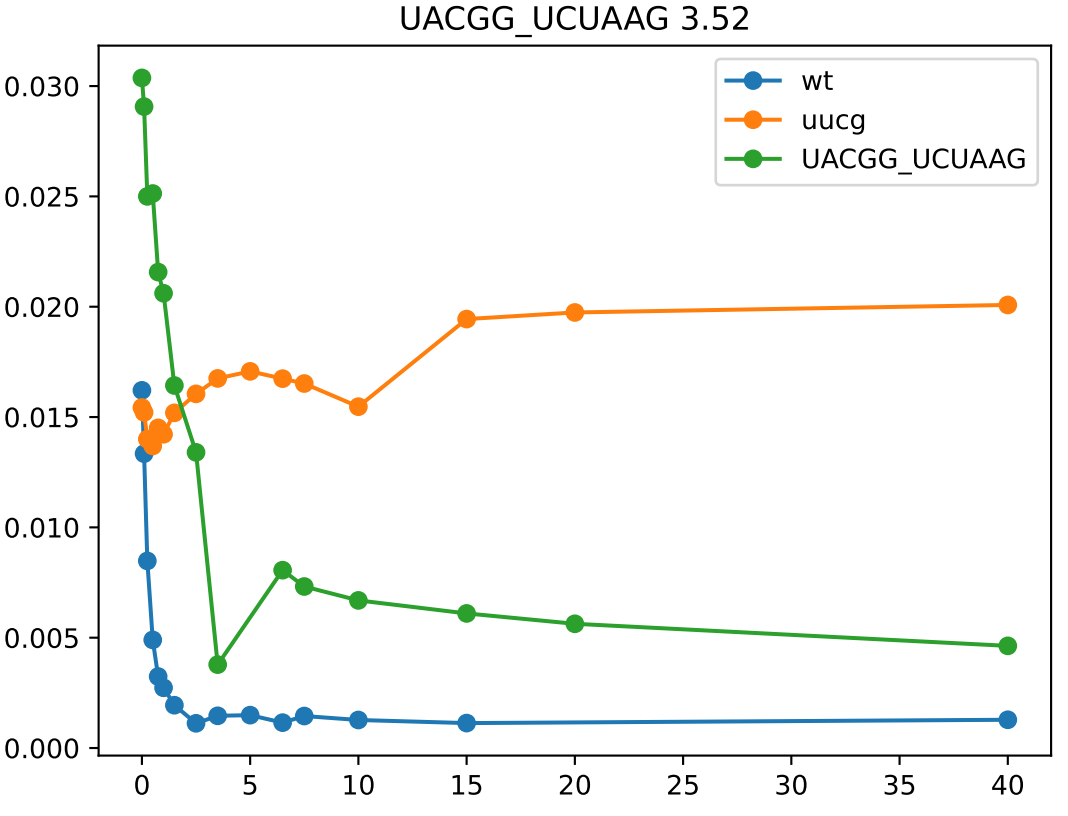

CACGG_CCUAUC 3.0
wt
uucg
CACGG_CCUAUC
0.030
0.025
0.020
0.015
0.010
0.005
0.000
0
5
10
15
20
25
30
35
40

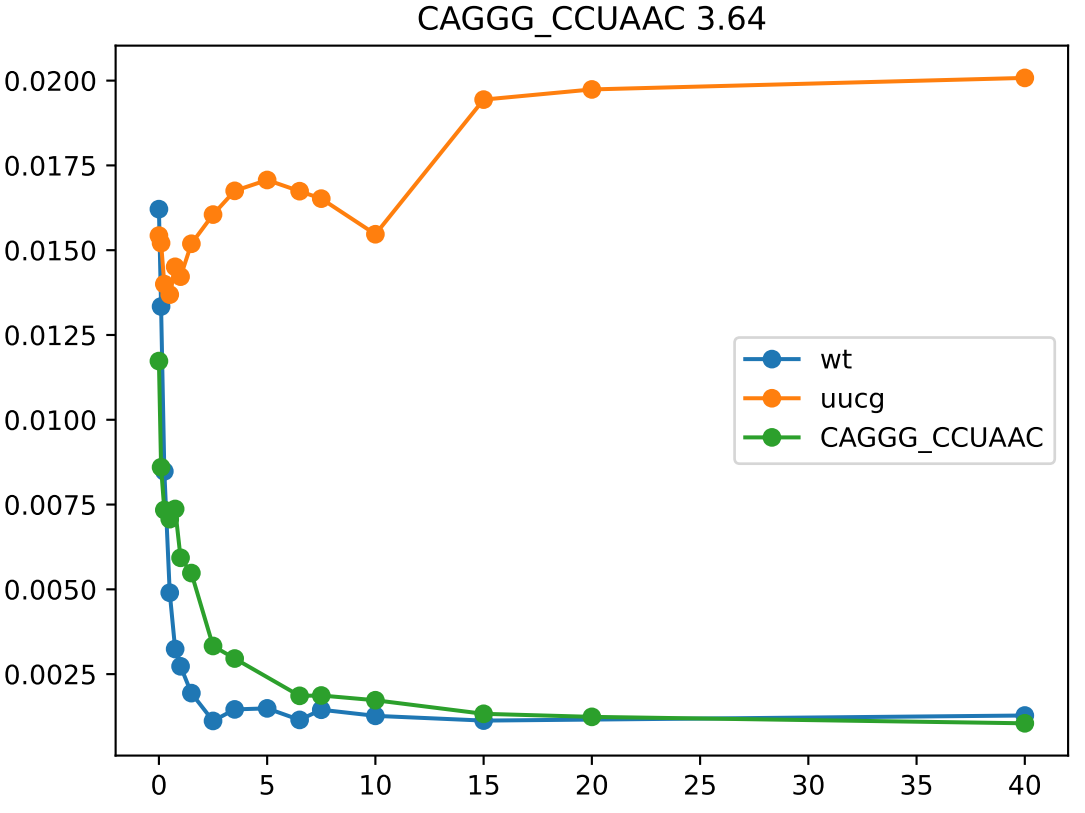

UACGA_UCUAAG 3.01
0.0200
0.0175
0.0150
0.0125
0.0100
0.0075
0.0050
0.0025
0
5
10
15
20
25
30
35
40
wt
uucg
UACGA_UCUAAG

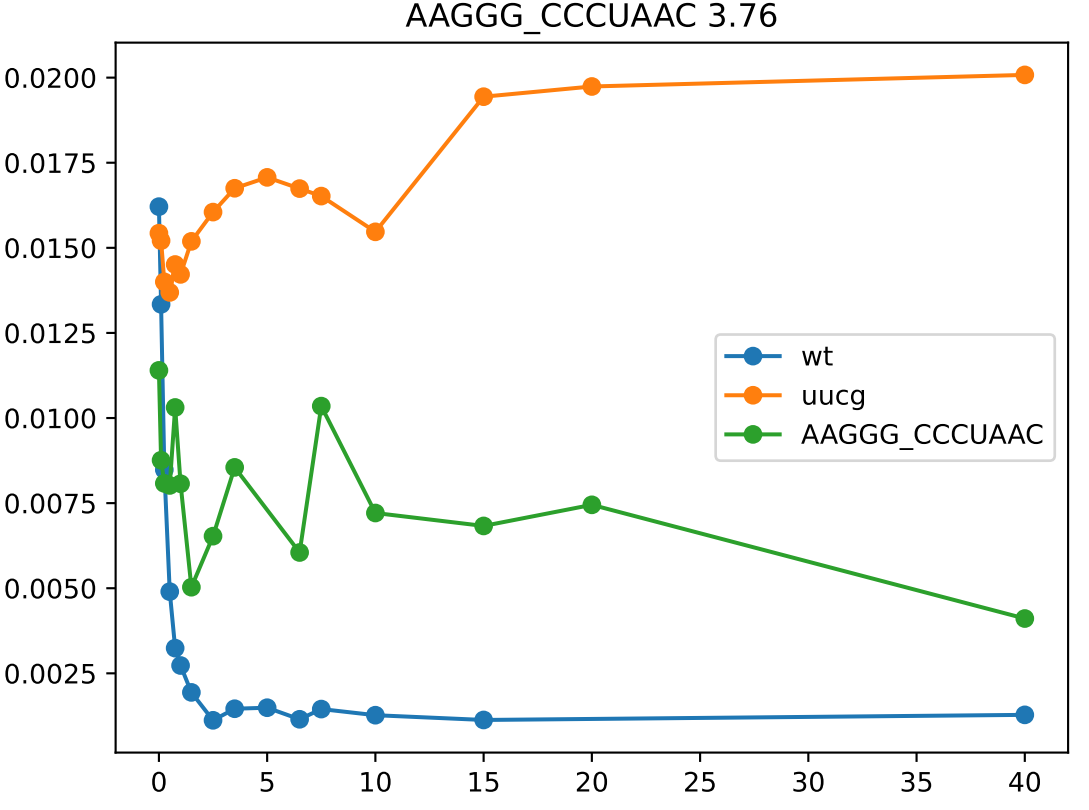

CAGGG_CCUACC 3.17
0.0200
0.0175
0.0150
0.0125
0.0100
0.0075
0.0050
0.0025
0
5
10
15
20
25
30
35
40
wt
uucg
CAGGG_CCUACC

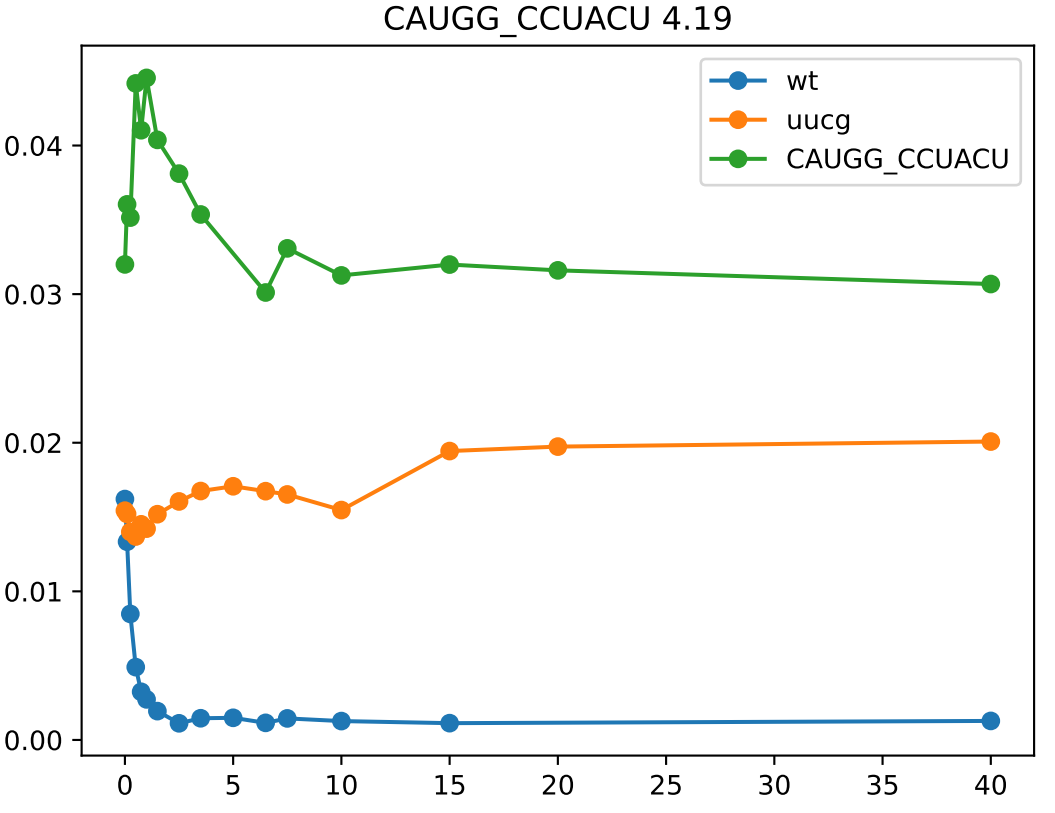

UAUGG_CCUACC 3.17
0.0200
0.0175
0.0150
0.0125
0.0100
0.0075
0.0050
0.0025
0
5
10
15
20
25
30
35
40
wt
uucg
UAUGG_CCUACC

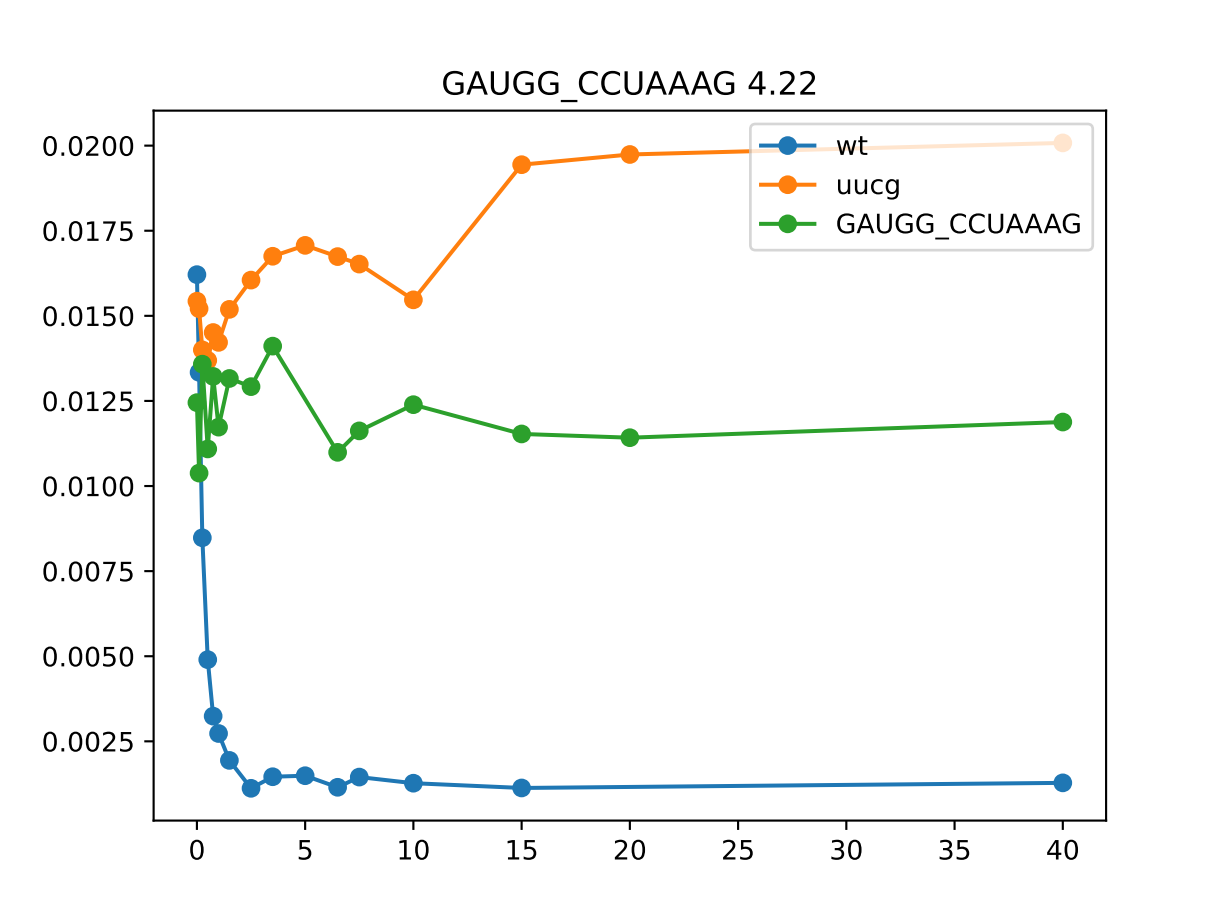

UACGA_UCUACG 3.2
0.0200
0.0175
0.0150
0.0125
0.0100
0.0075
0.0050
0.0025
0
5
10
15
20
25
30
35
40
wt
uucg
UACGA_UCUACG

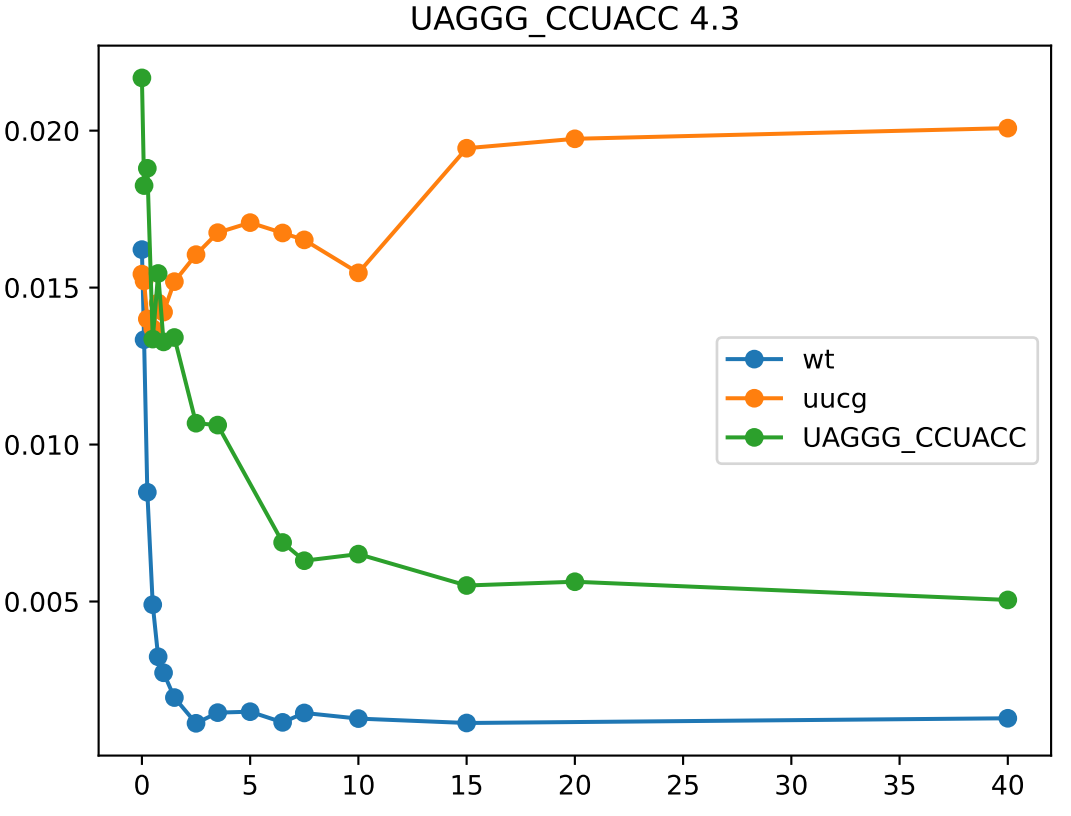

UACGG_UCUAAG 3.52
wt
uucg
UACGG_UCUAAG
0.030
0.025
0.020
0.015
0.010
0.005
0.000
0
5
10
15
20
25
30
35
40

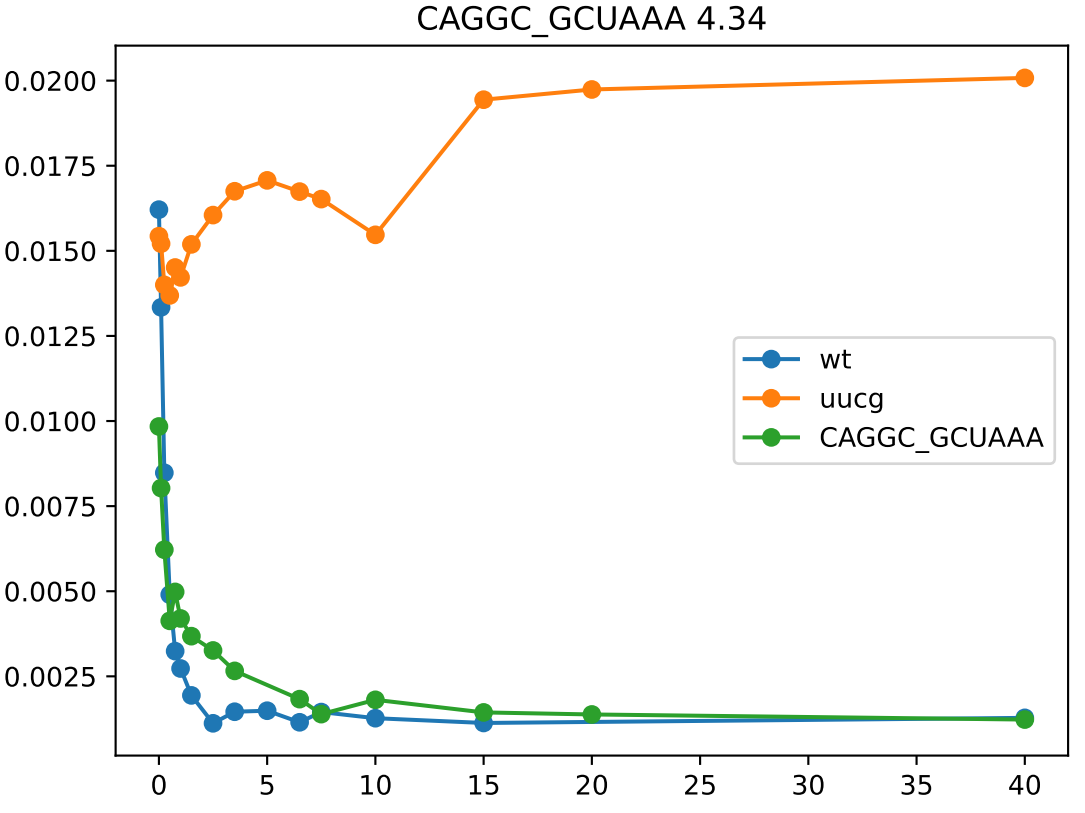

CAGGG_CCUAAC 3.64
0.0200
0.0175
0.0150
0.0125
0.0100
0.0075
0.0050
0.0025
0
5
10
15
20
25
30
35
40
wt
uucg
CAGGG_CCUAAC

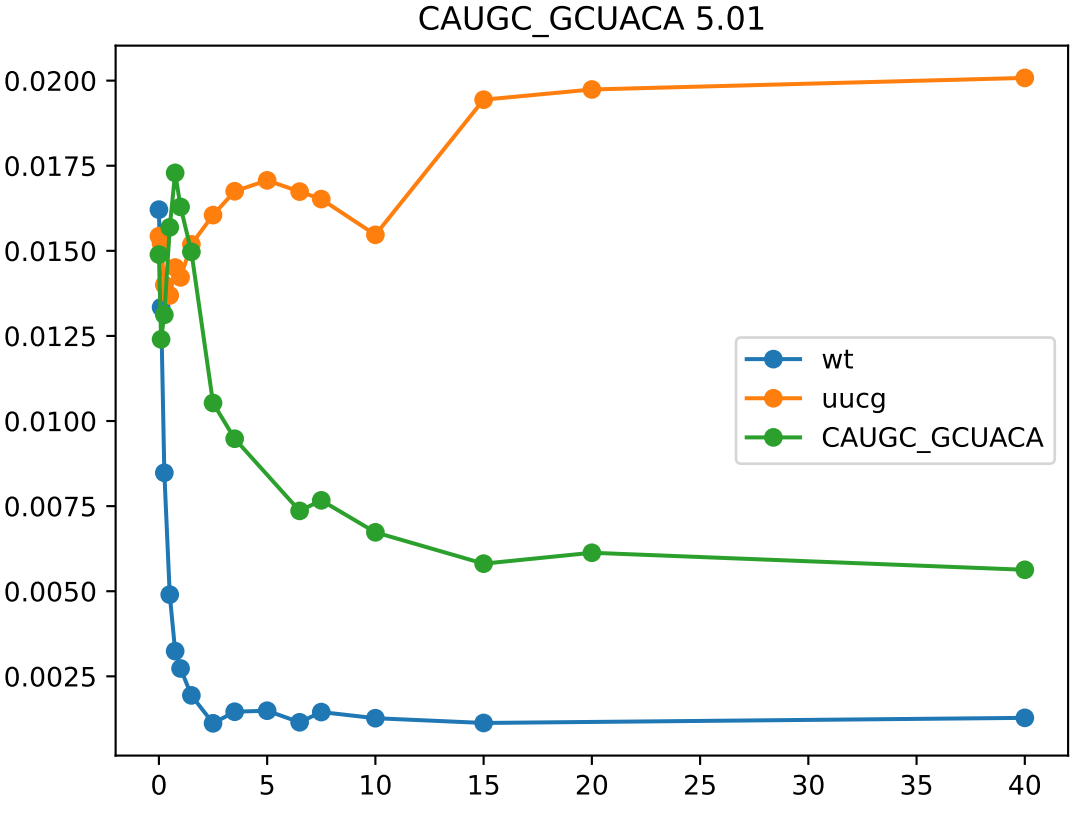

AAGGG_CCCUAAC 3.76
0.0200
0.0175
0.0150
0.0125
0.0100
0.0075
0.0050
0.0025
0
5
10
15
20
25
30
35
40
wt
uucg
AAGGG_CCCUAAC

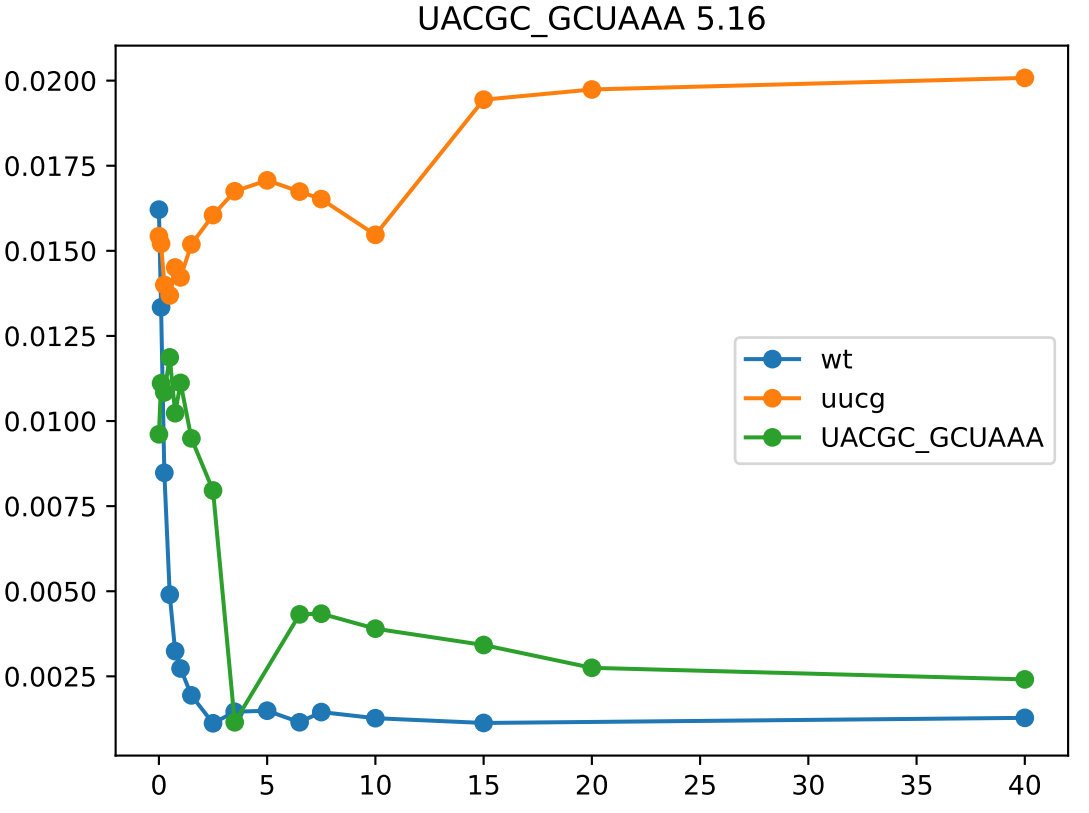

CAUGG_CCUACU 4.19
wt
uucg
CAUGG_CCUACU
0.04
0.03
0.02
0.01
0.00
0
5
10
15
20
25
30
35
40

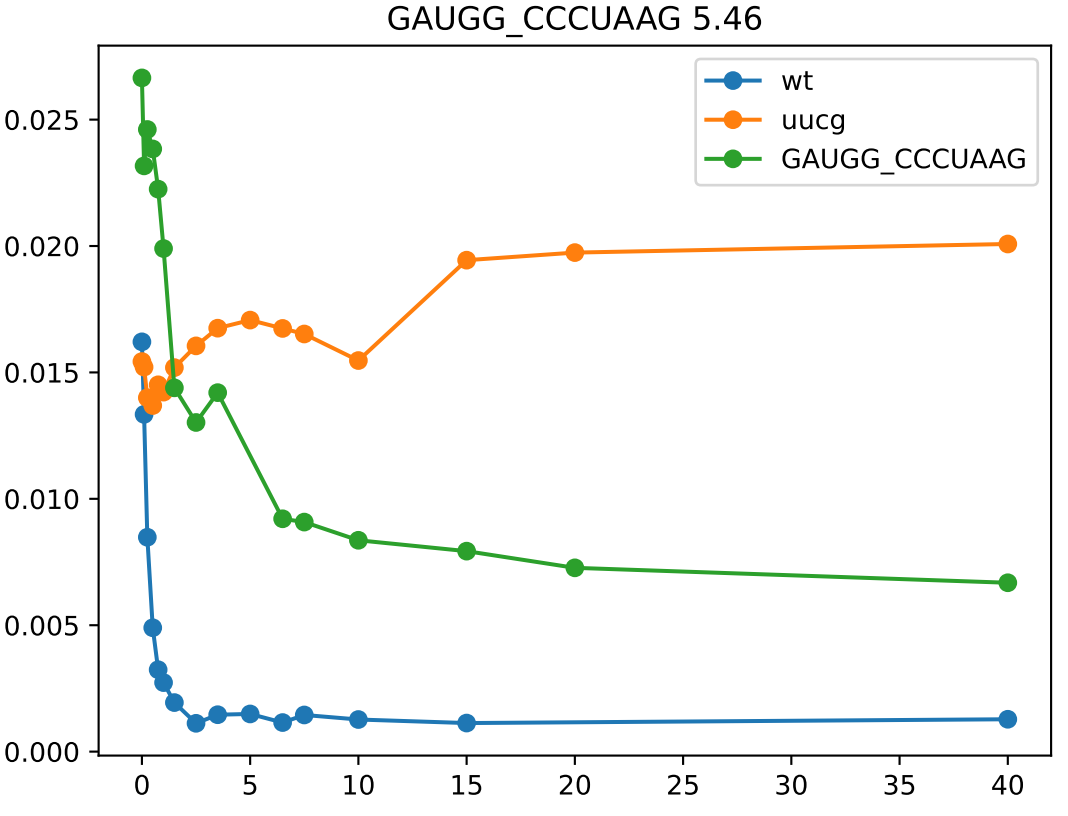

GAUGG_CCUAAAG 4.22
wt
uucg
GAUGG_CCUAAAG
0.0200
0.0175
0.0150
0.0125
0.0100
0.0075
0.0050
0.0025
0
5
10
15
20
25
30
35
40

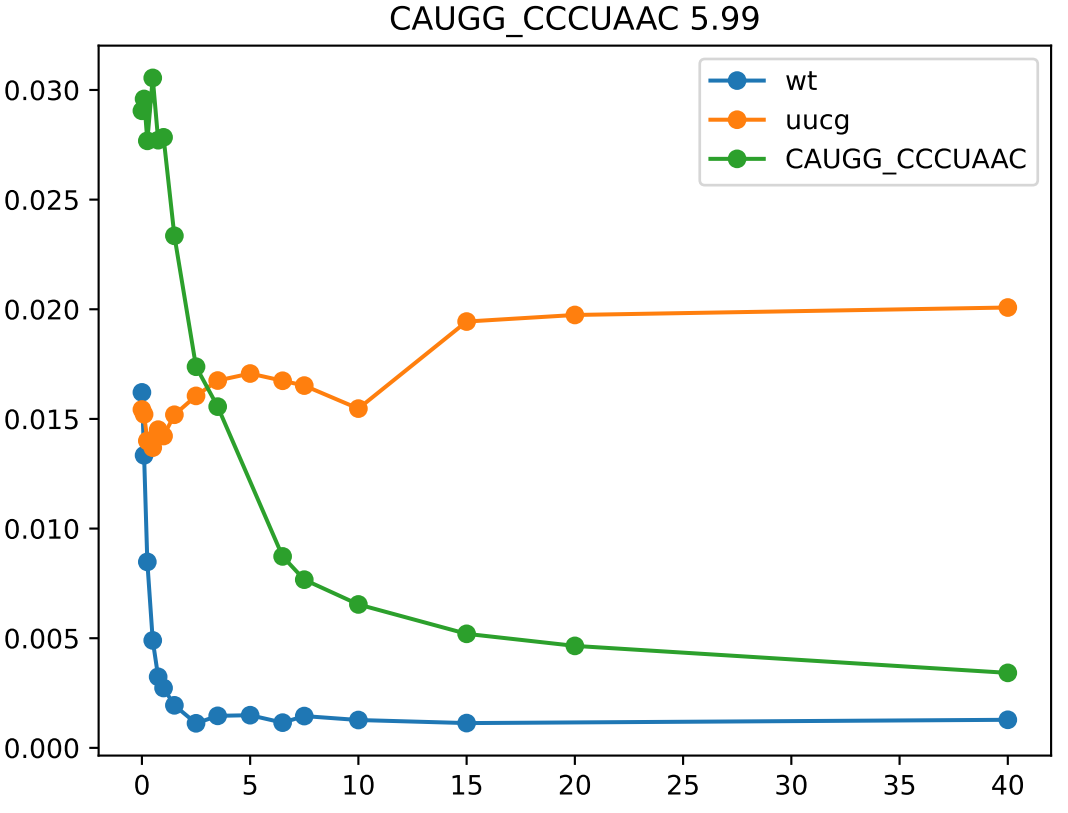

UAGGG_CCUACC 4.3
0.020
0.015
0.010
0.005
0
5
10
15
20
25
30
35
40
wt
uucg
UAGGG_CCUACC

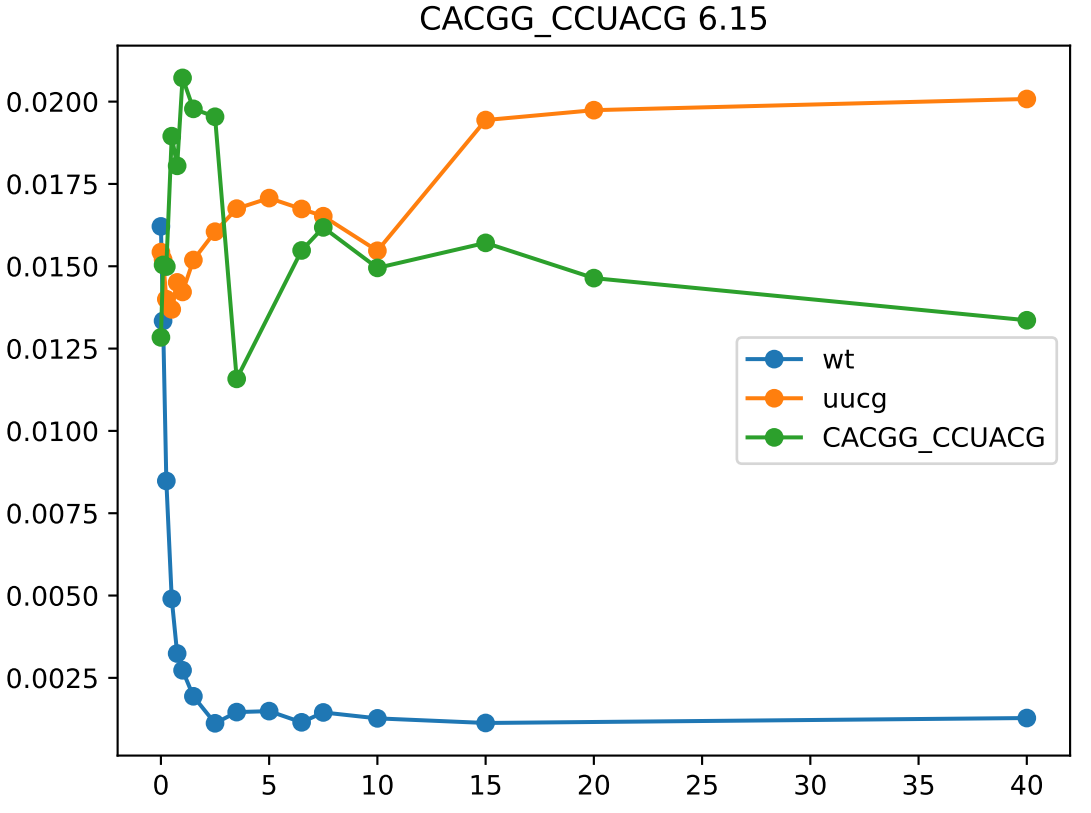

CAGGC_GCUAAA 4.34
0.0200
0.0175
0.0150
0.0125
0.0100
0.0075
0.0050
0.0025
0
5
10
15
20
25
30
35
40
wt
uucg
CAGGC_GCUAAA

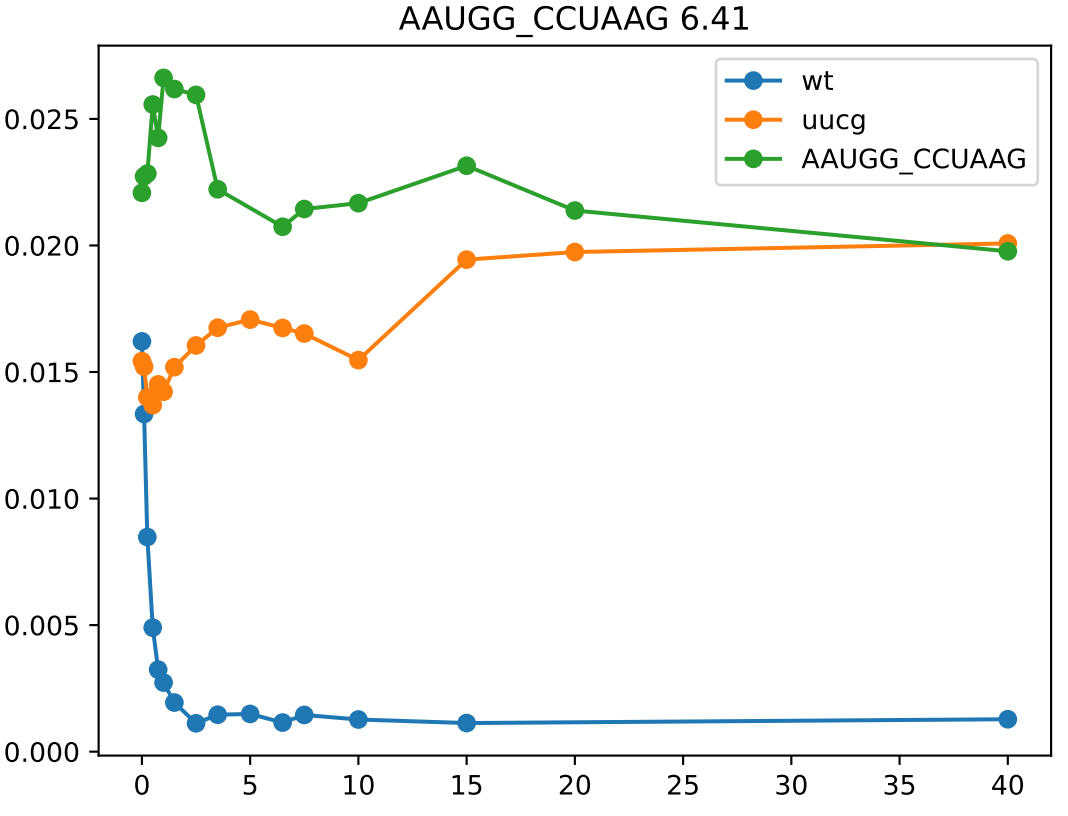

CAUGC_GCUACA 5.01
0.0200
0.0175
0.0150
0.0125
0.0100
0.0075
0.0050
0.0025
0
5
10
15
20
25
30
35
40
wt
uucg
CAUGC_GCUACA

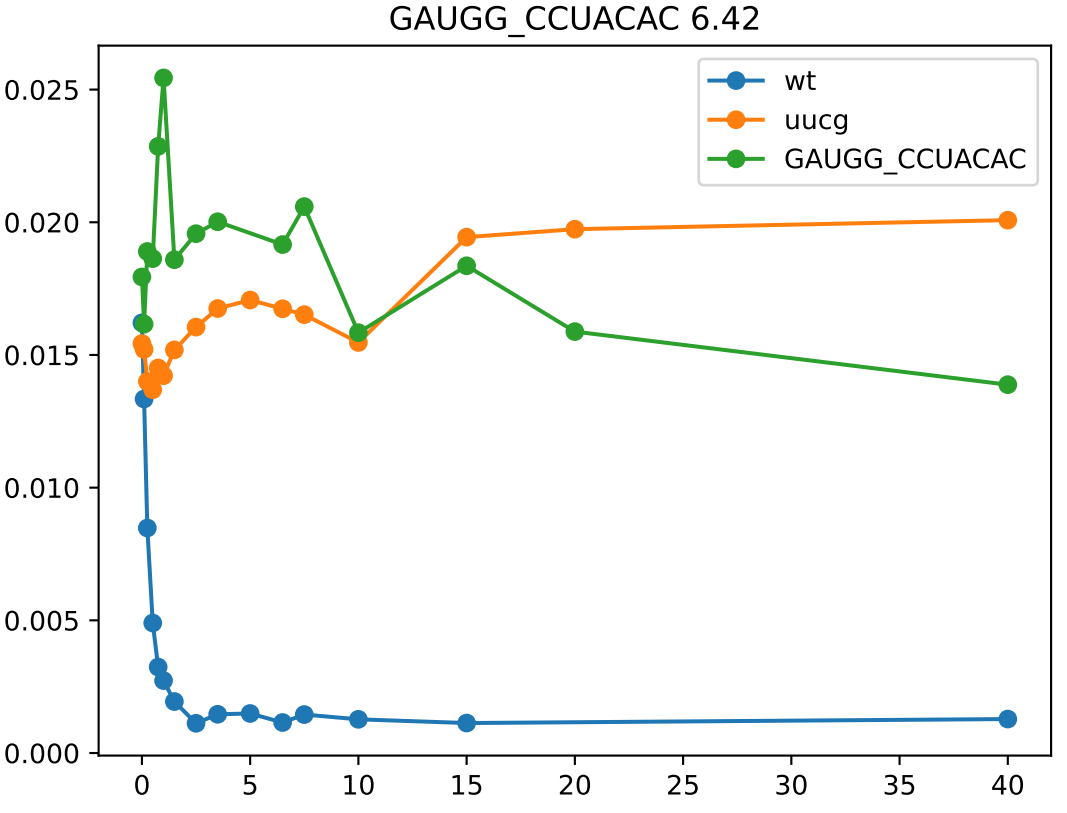

UACGC_GCUAAA 5.16
0.0200
0.0175
0.0150
0.0125
0.0100
0.0075
0.0050
0.0025
0
5
10
15
20
25
30
35
40
wt
uucg
UACGC_GCUAAA

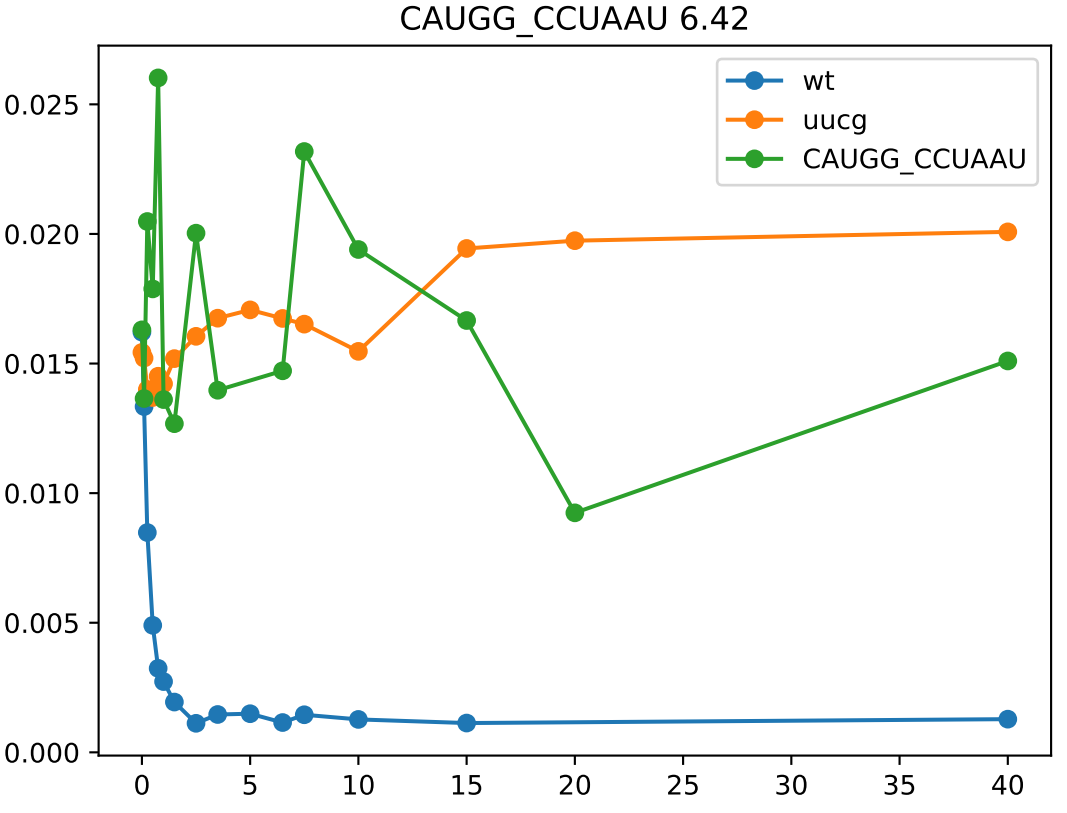

GAUGG_CCCUAAG 5.46
wt
uucg
GAUGG_CCCUAAG
0.025
0.020
0.015
0.010
0.005
0.000
0
5
10
15
20
25
30
35
40

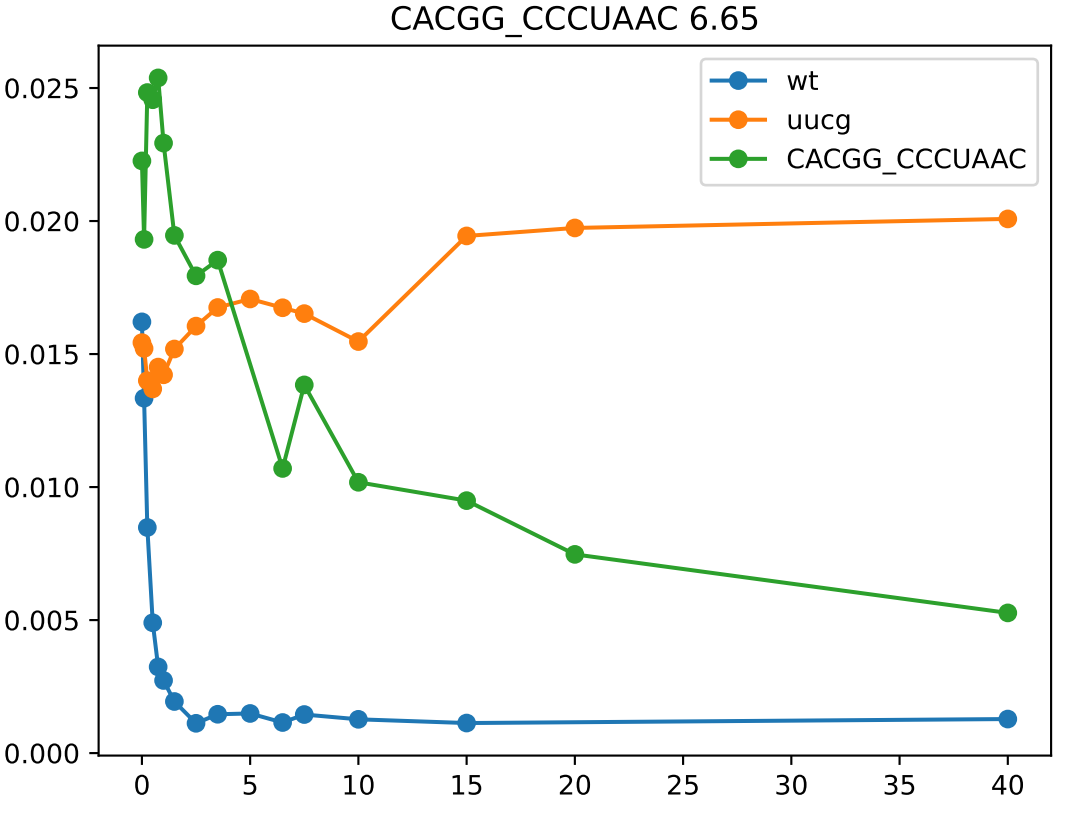

CAUGG_CCCUAAC 5.99
wt
uucg
CAUGG_CCCUAAC
0.030
0.025
0.020
0.015
0.010
0.005
0.000
0
5
10
15
20
25
30
35
40

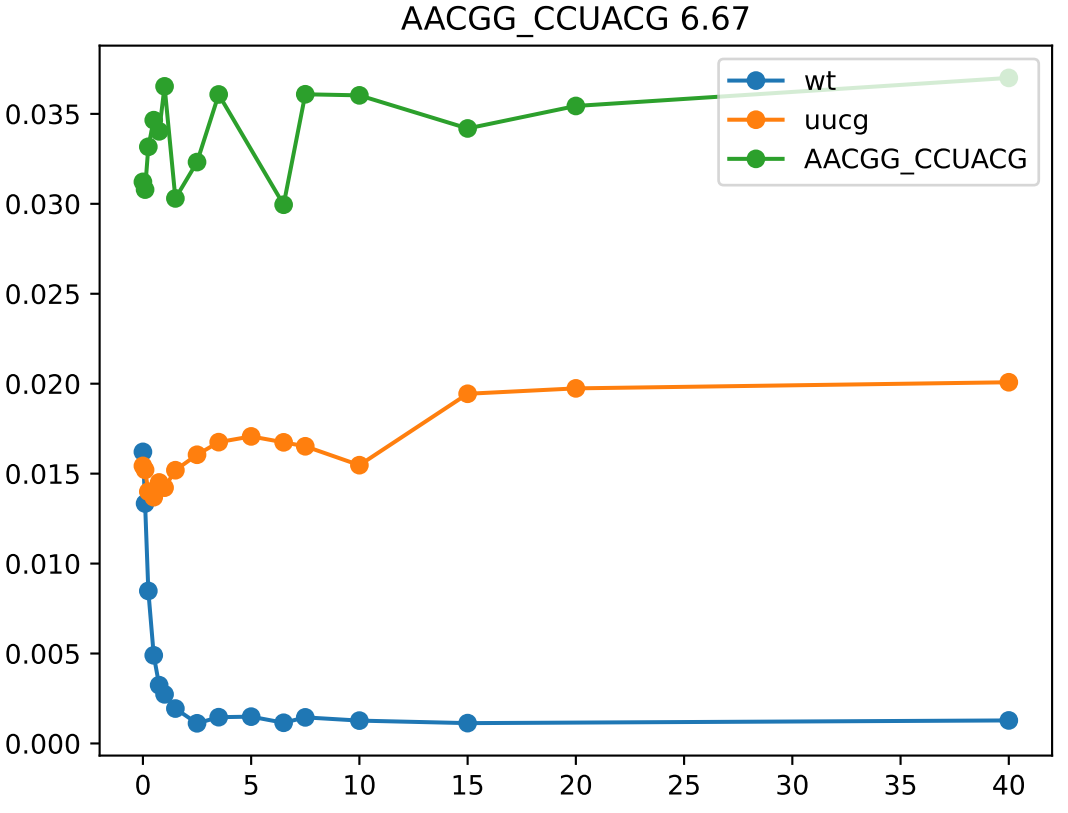

CACGG_CCUACG 6.15
0.0200
0.0175
0.0150
0.0125
0.0100
0.0075
0.0050
0.0025
0
5
10
15
20
25
30
35
40
wt
uucg
CACGG_CCUACG

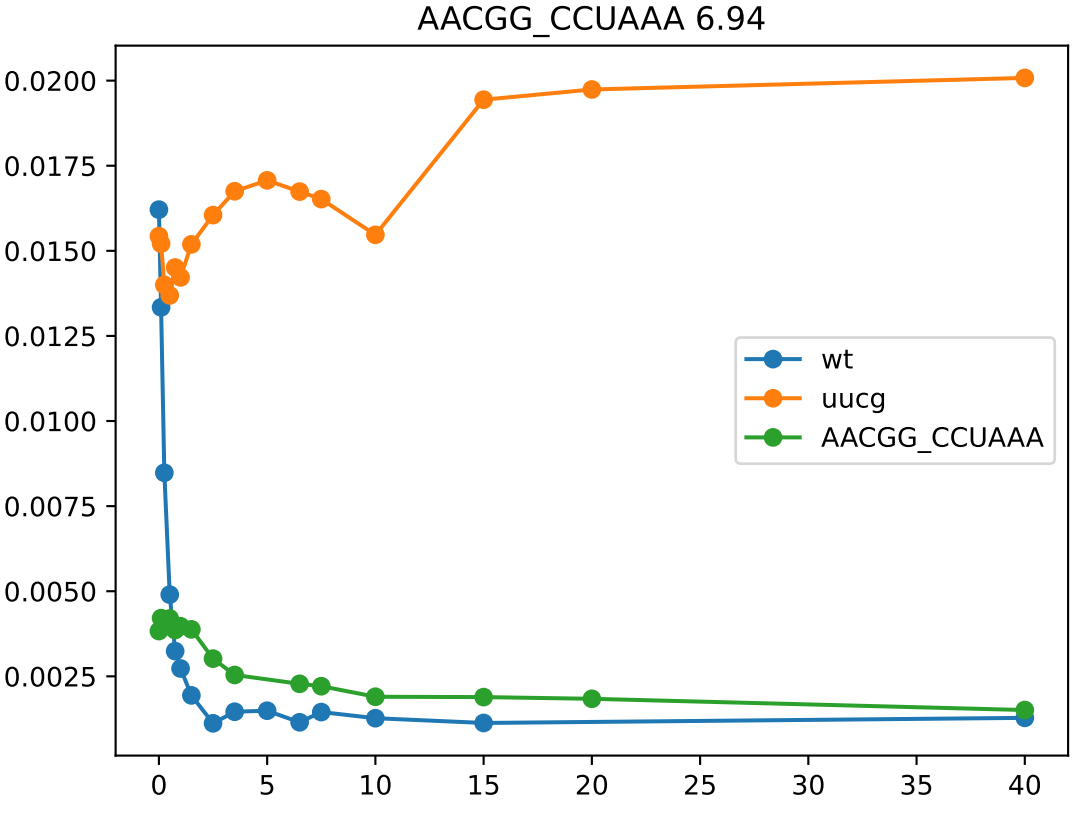

AAUGG_CCUAAG 6.41
wt
uucg
AAUGG_CCUAAG
0.025
0.020
0.015
0.010
0.005
0.000
0
5
10
15
20
25
30
35
40

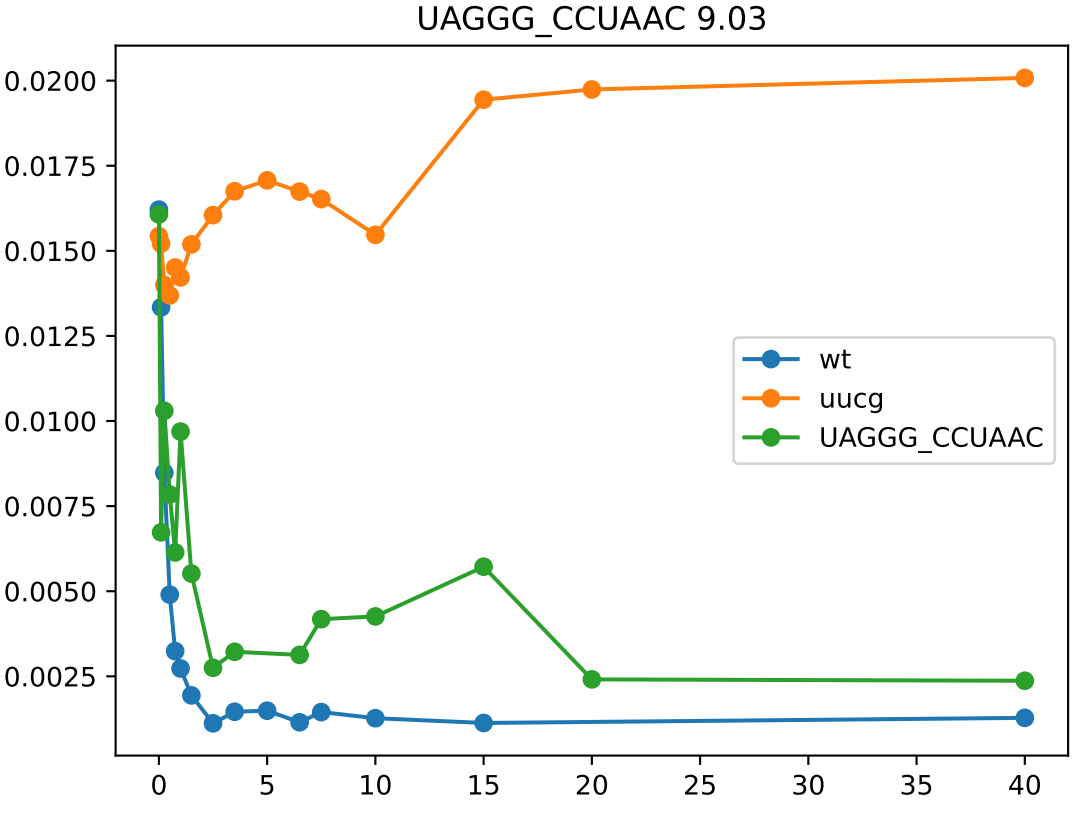

GAUGG_CCUACAC 6.42
wt
uucg
GAUGG_CCUACAC
0.025
0.020
0.015
0.010
0.005
0.000
0
5
10
15
20
25
30
35
40

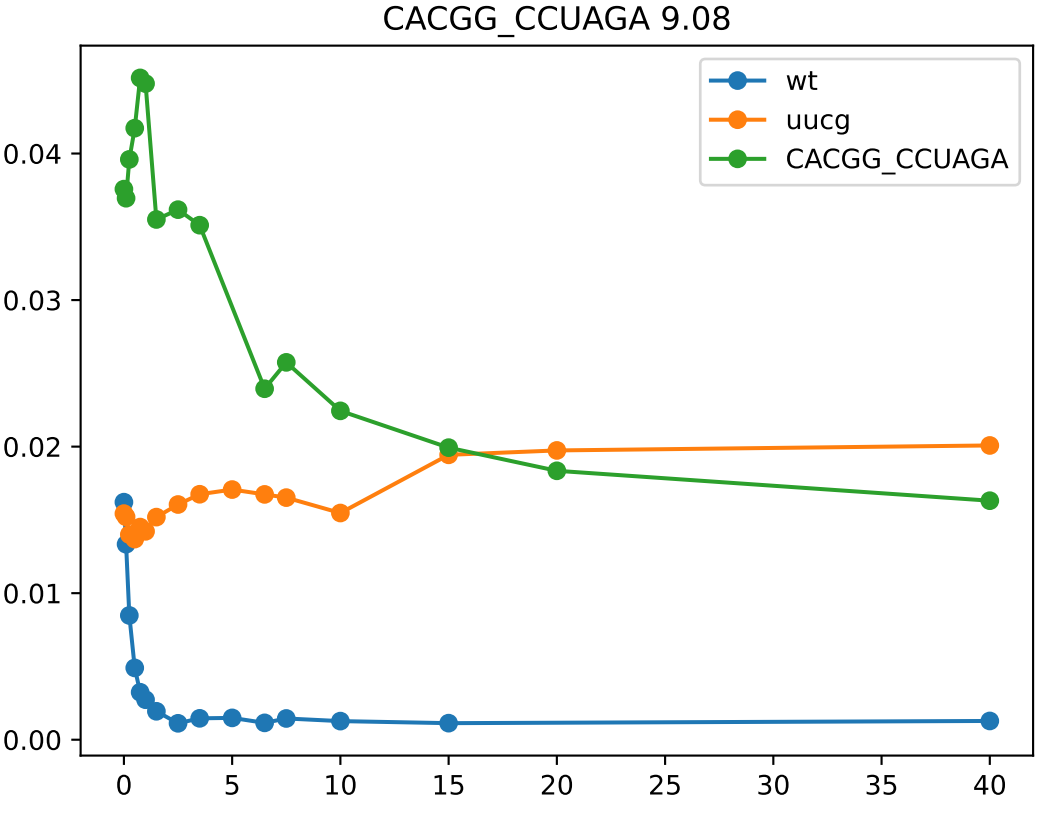

CAUGG_CCUAAU 6.42
wt
uucg
CAUGG_CCUAAU
0.025
0.020
0.015
0.010
0.005
0.000
0
5
10
15
20
25
30
35
40

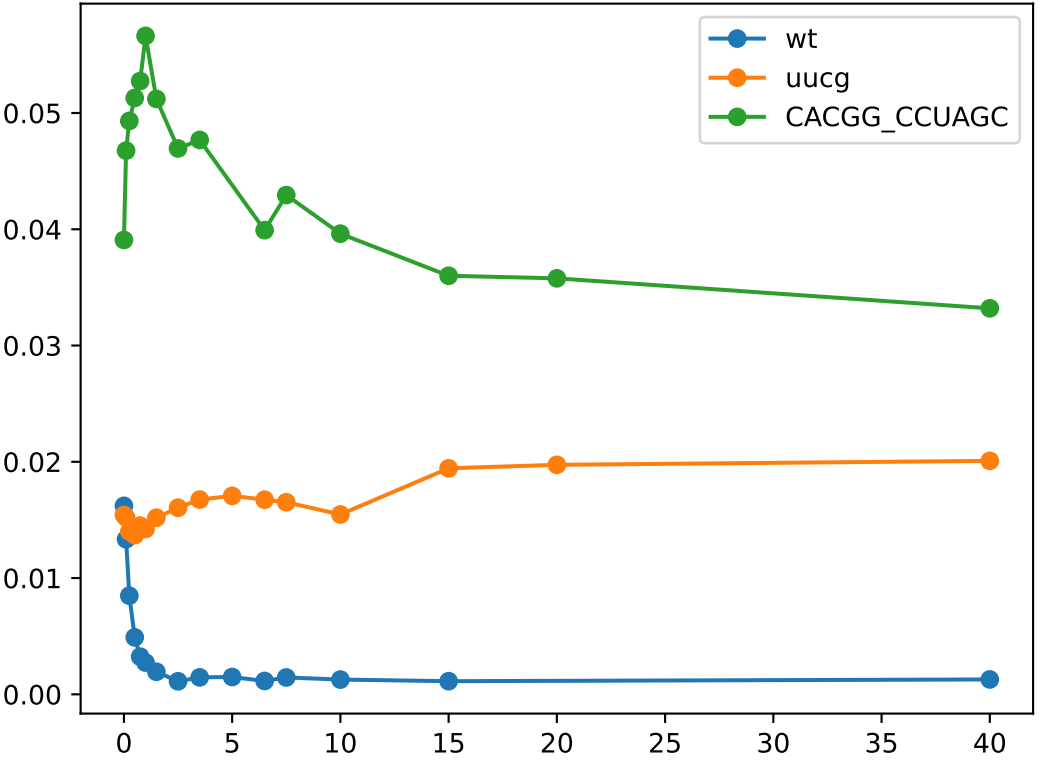

CACGG_CCCUAAC 6.65
wt
uucg
CACGG_CCCUAAC
0.025
0.020
0.015
0.010
0.005
0.000
0
5
10
15
20
25
30
35
40

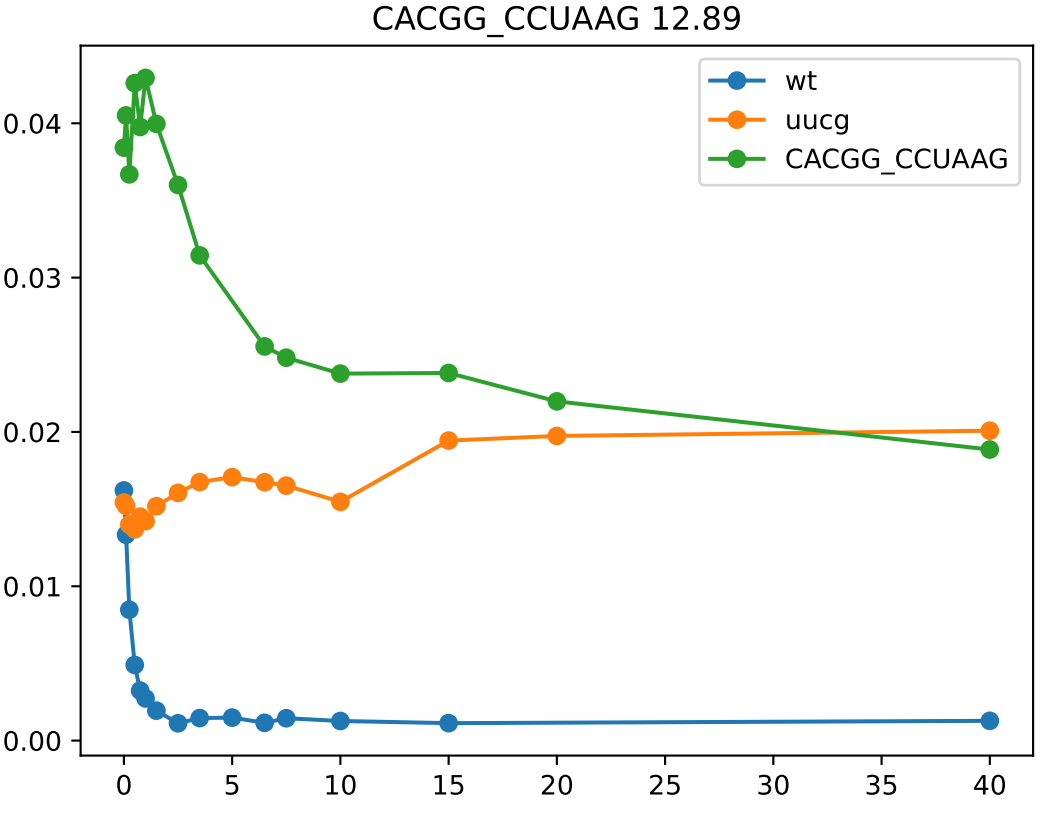

AACGG_CCUACG 6.67
wt
uucg
AACGG_CCUACG
0.035
0.030
0.025
0.020
0.015
0.010
0.005
0.000
0
5
10
15
20
25
30
35
40

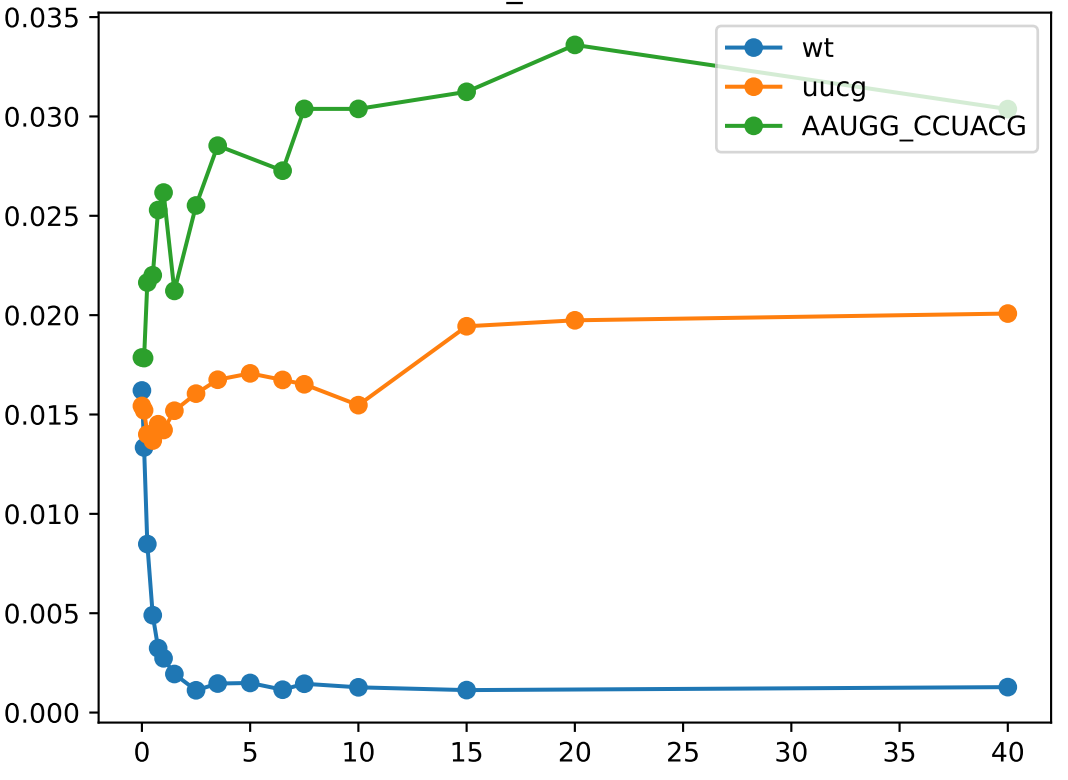

AACGG_CCUAAA 6.94
0.0200
0.0175
0.0150
0.0125
0.0100
0.0075
0.0050
0.0025
0
5
10
15
20
25
30
35
40
wt
uucg
AACGG_CCUAAA

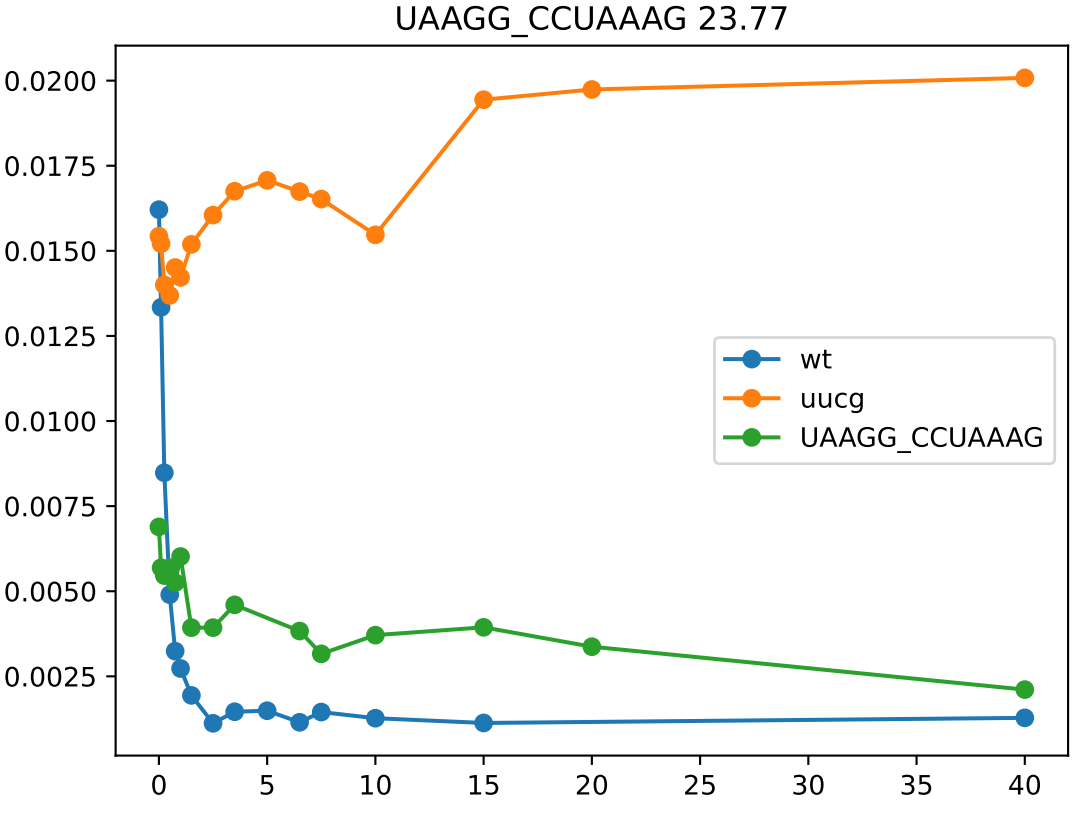

UAGGG_CCUAAC 9.03
0.0200
0.0175
0.0150
0.0125
0.0100
0.0075
0.0050
0.0025
0
5
10
15
20
25
30
35
40
wt
uucg
UAGGG_CCUAAC

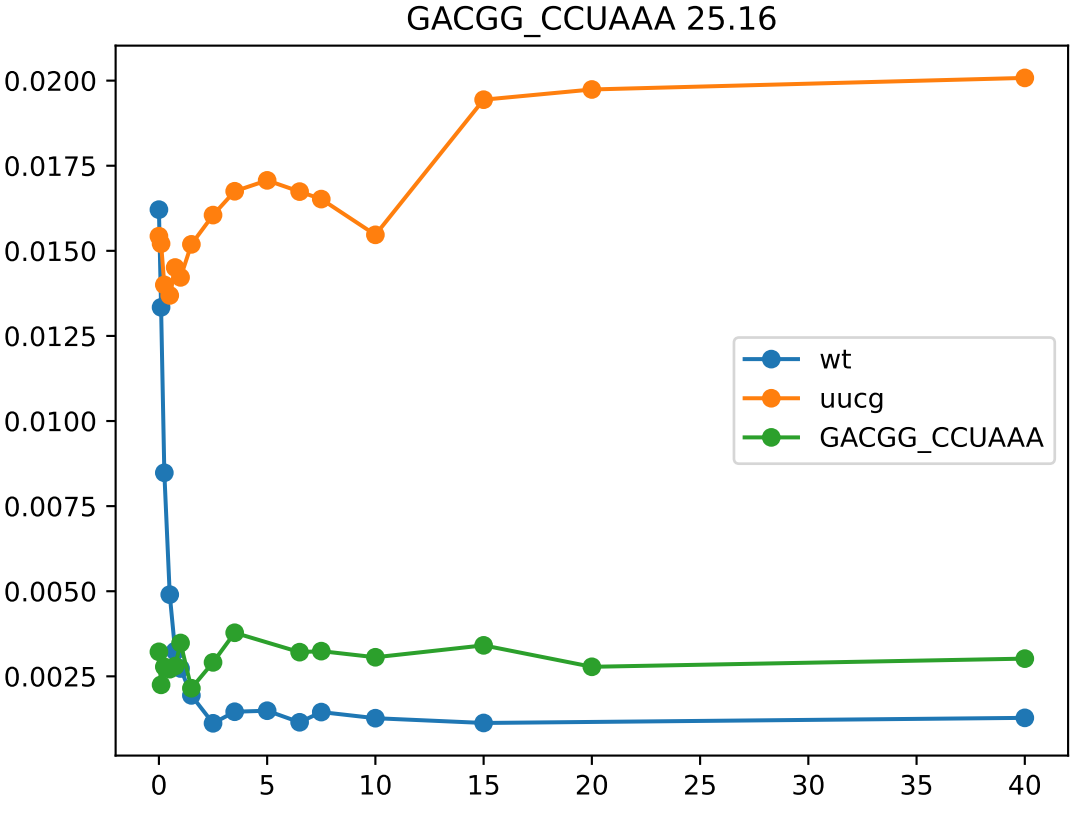

CACGG_CCUAGA 9.08
wt
uucg
CACGG_CCUAGA
0.04
0.03
0.02
0.01
0.00
0
5
10
15
20
25
30
35
40

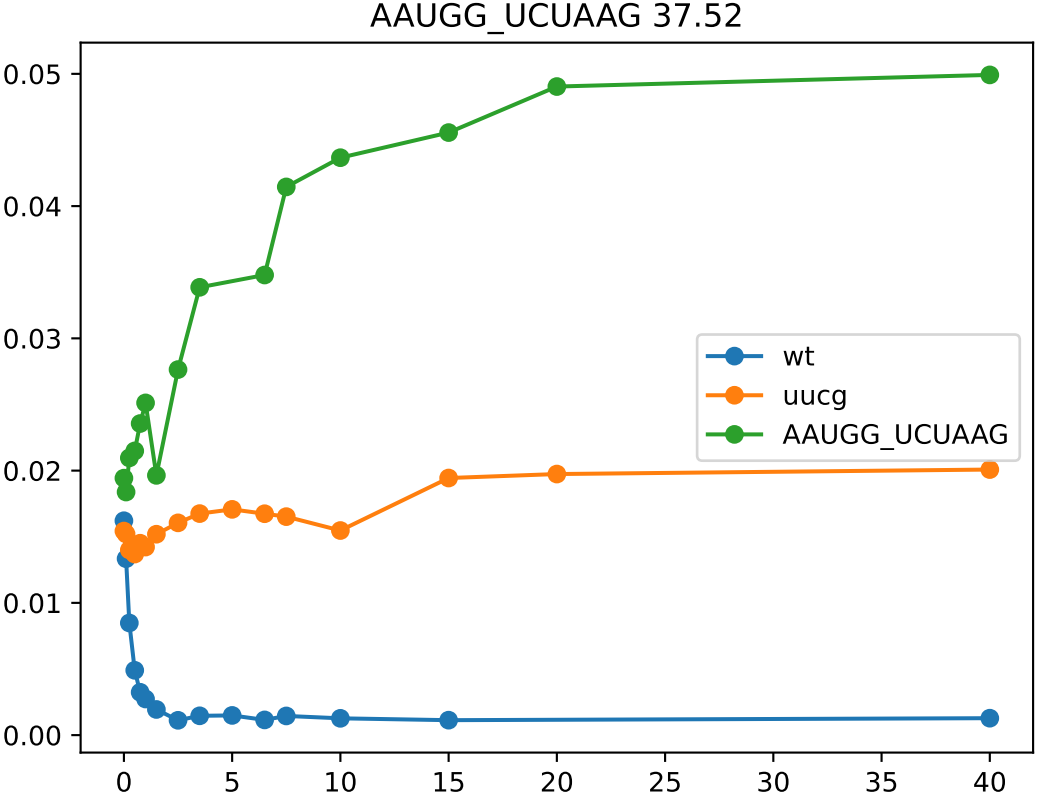

CACGG_CCUAGC 12.32
wt
uucg
CACGG_CCUAGC
0.05
0.04
0.03
0.02
0.01
0.00
0
5
10
15
20
25
30
35
40


CACGG_CCUAAG 12.89
wt
uucg
CACGG_CCUAAG
0.04
0.03
0.02
0.01
0.00
0
5
10
15
20
25
30
35
40


AAUGG_CCUACG 14.84
wt
uucg
AAUGG_CCUACG
0.035
0.030
0.025
0.020
0.015
0.010
0.005
0.000
0
5
10
15
20
25
30
35
40


UAAGG_CCUAAAG 23.77
0.0200
0.0175
0.0150
0.0125
0.0100
0.0075
0.0050
0.0025
0
5
10
15
20
25
30
35
40
wt
uucg
UAAGG_CCUAAAG


GACGG_CCUAAA 25.16
0.0200
0.0175
0.0150
0.0125
0.0100
0.0075
0.0050
0.0025
0
5
10
15
20
25
30
35
40
wt
uucg
GACGG_CCUAAA


AAUGG_UCUAAG 37.52
0.05
0.04
0.03
0.02
0.01
0.00
0
5
10
15
20
25
30
35
40
wt
uucg
AAUGG_UCUAAG