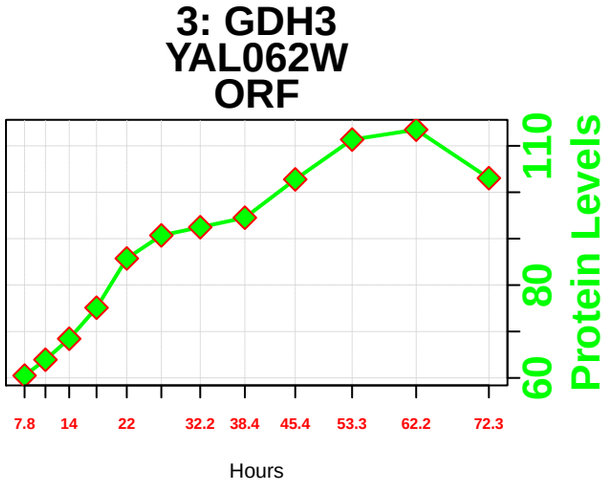
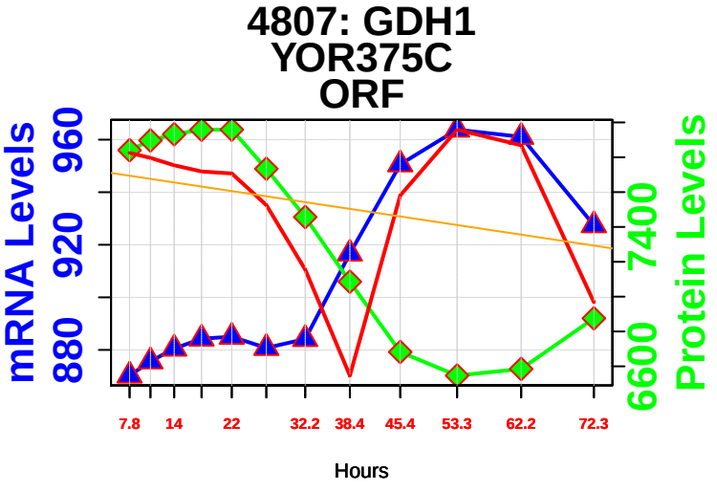
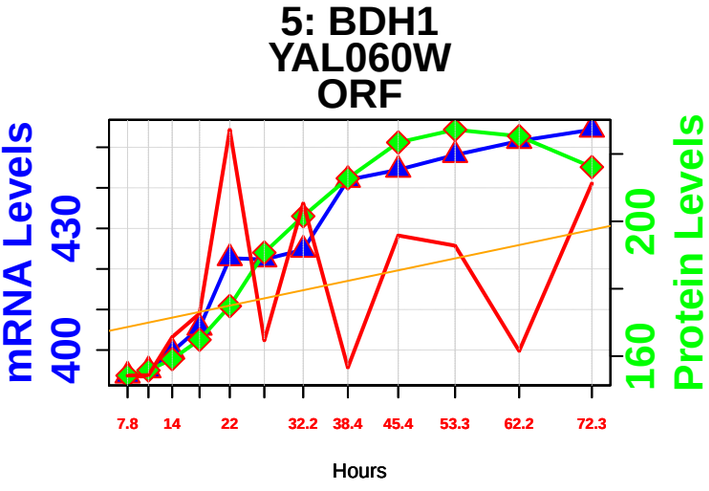
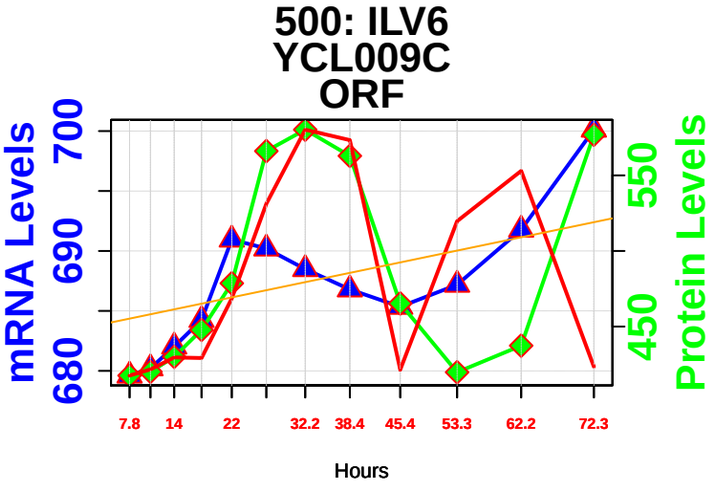
glutamate biosynthesis from ammonia

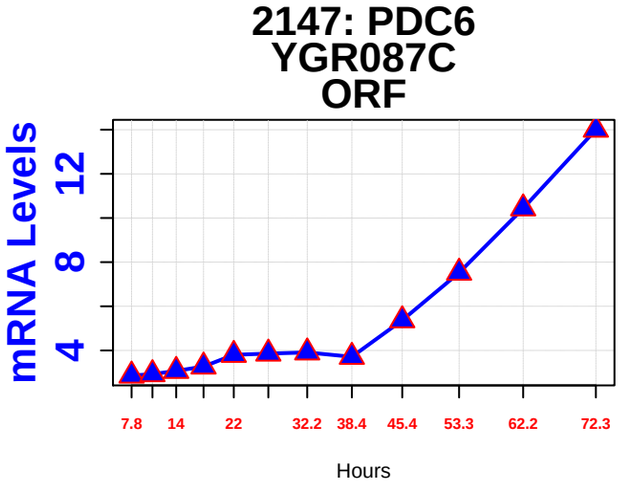


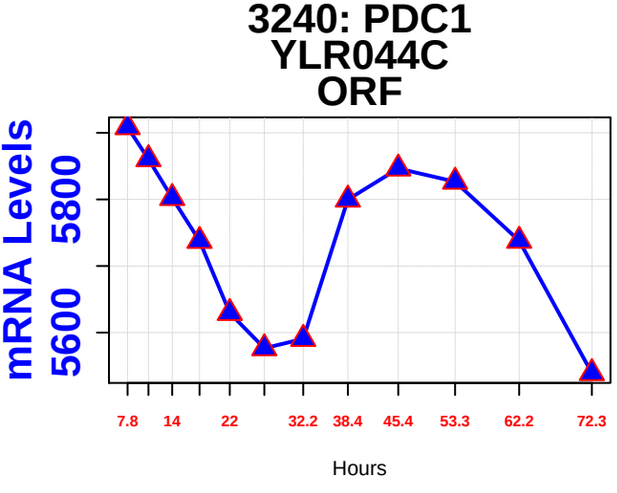


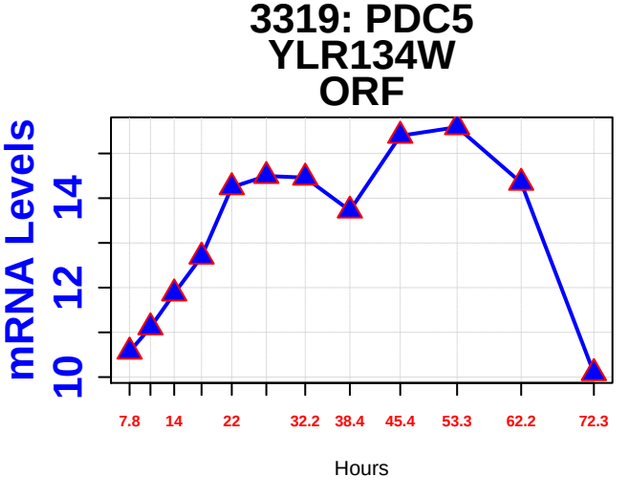
acetoin biosynthesis

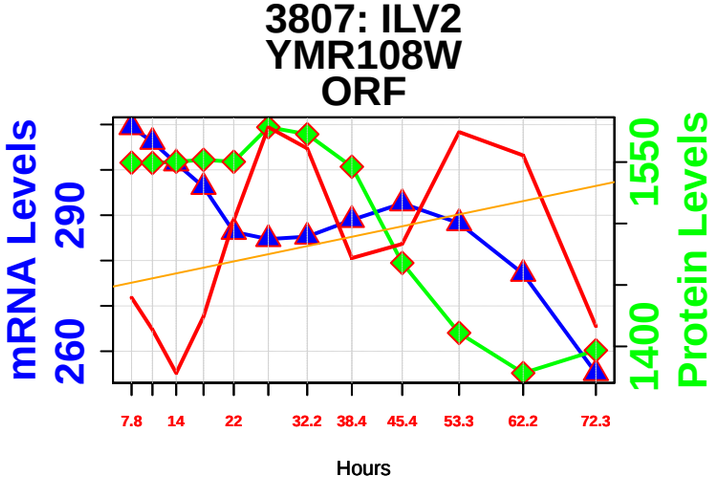


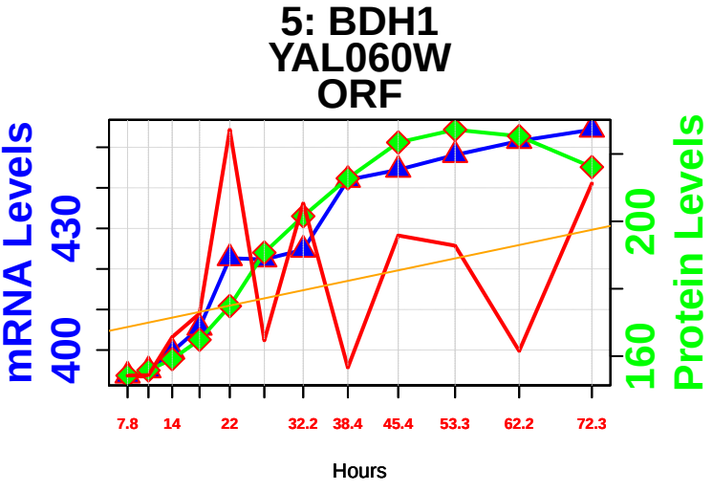


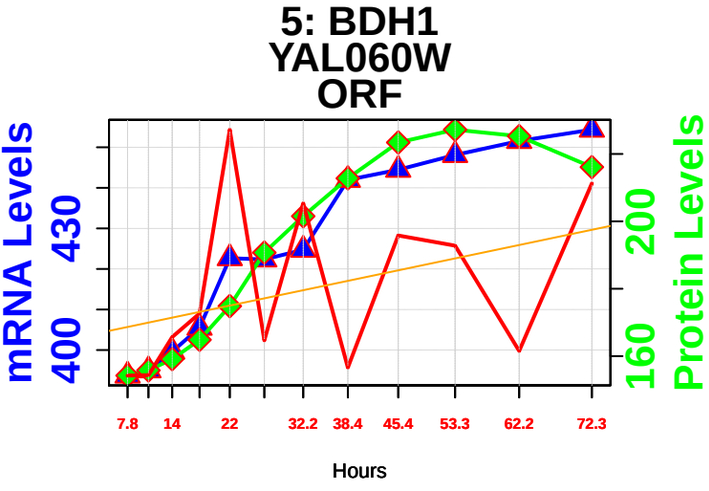


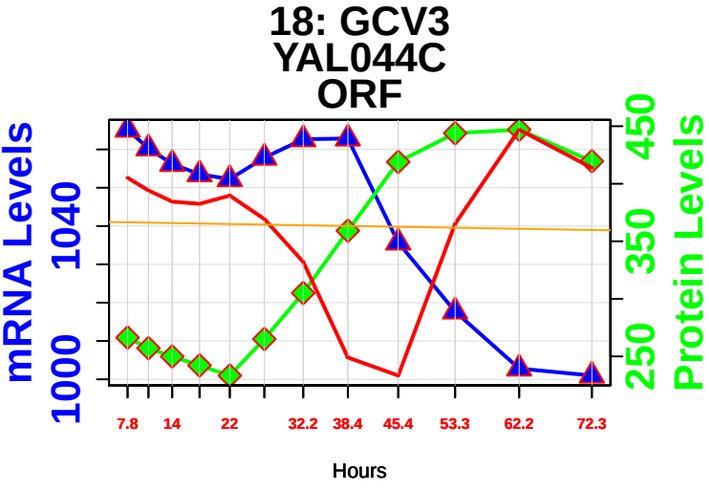


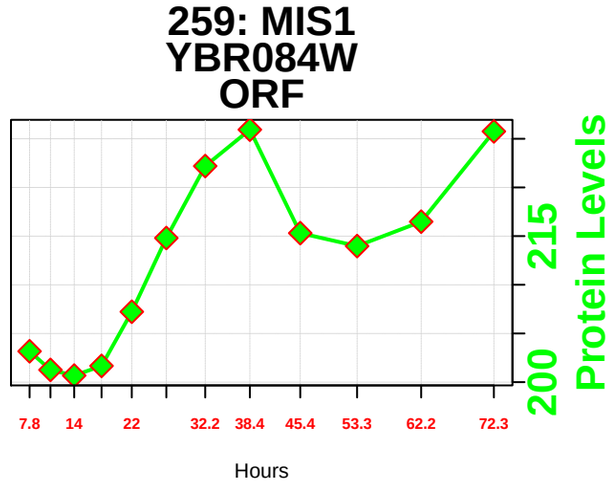


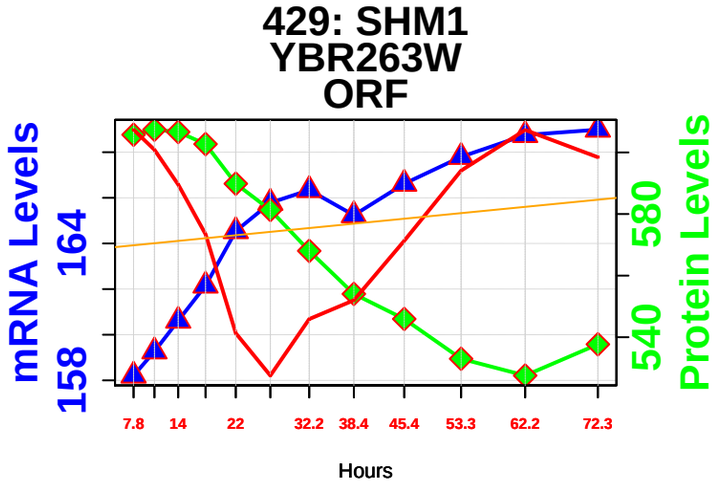


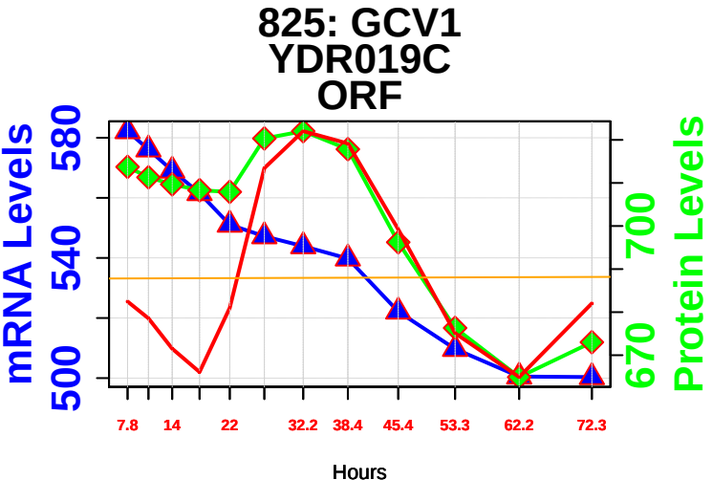

5: BDH1
YAL060W
ORF
mRNA Levels
400
430
Protein Levels
160
200
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

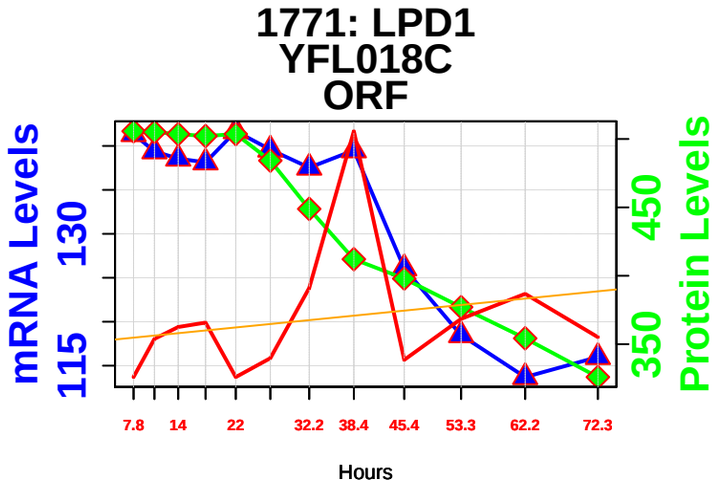

5: BDH1
YAL060W
ORF
mRNA Levels
400
430
Protein Levels
160
200
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

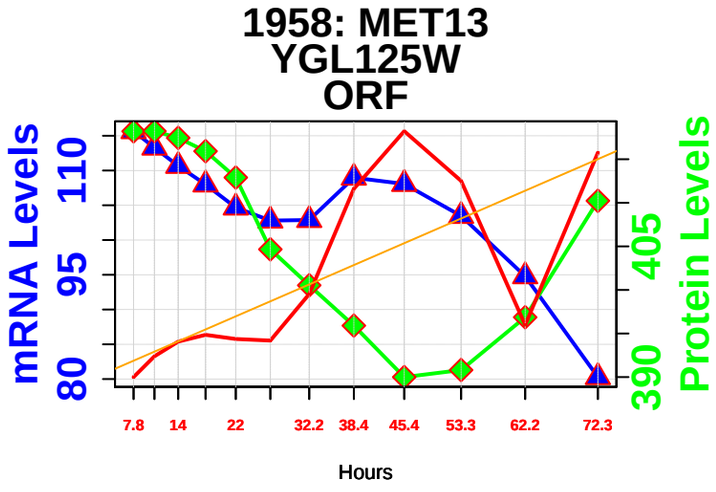

18: GCV3
YAL044C
ORF
mRNA Levels
1000
1040
Protein Levels
250
350
450
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

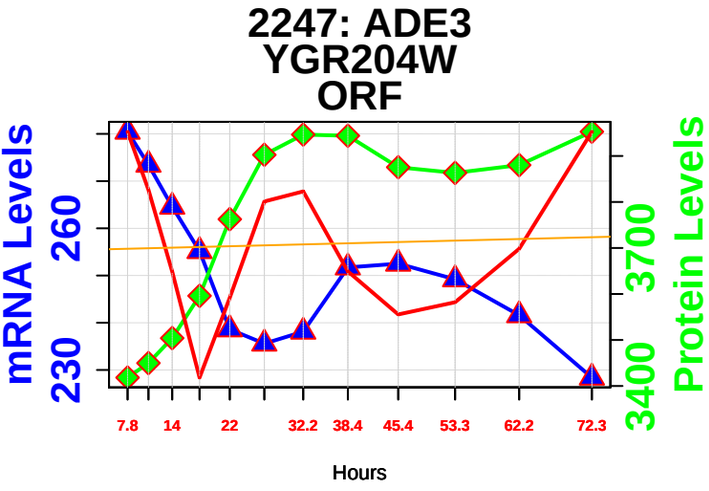

259: MIS1
YBR084W
ORF
Protein Levels
200
215
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

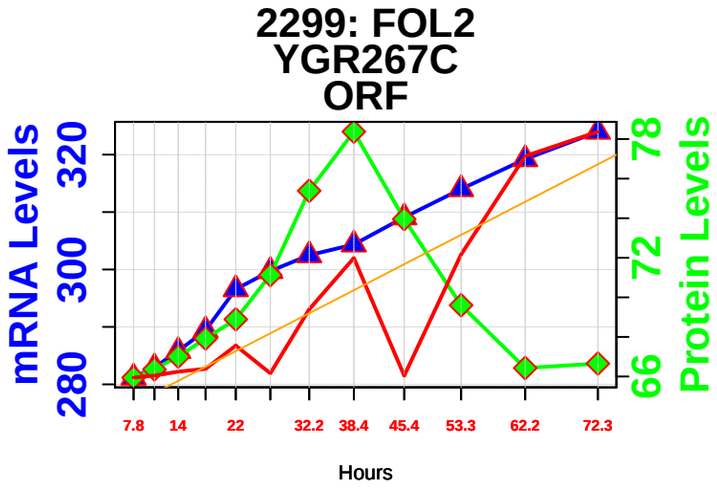

429: SHM1
YBR263W
ORF
mRNA Levels
158
164
Protein Levels
540
580
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

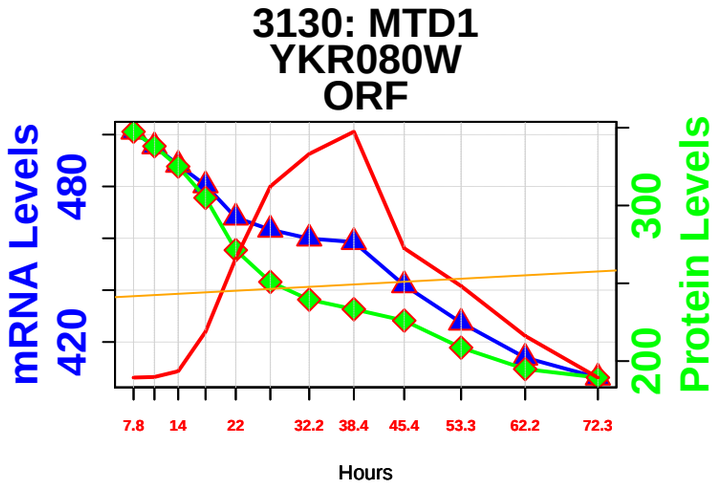

825: GCV1
YDR019C
ORF
mRNA Levels
500
540
580
Protein Levels
670
700
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours


1771: LPD1
YFL018C
ORF
mRNA Levels
115
130
Protein Levels
350
450
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

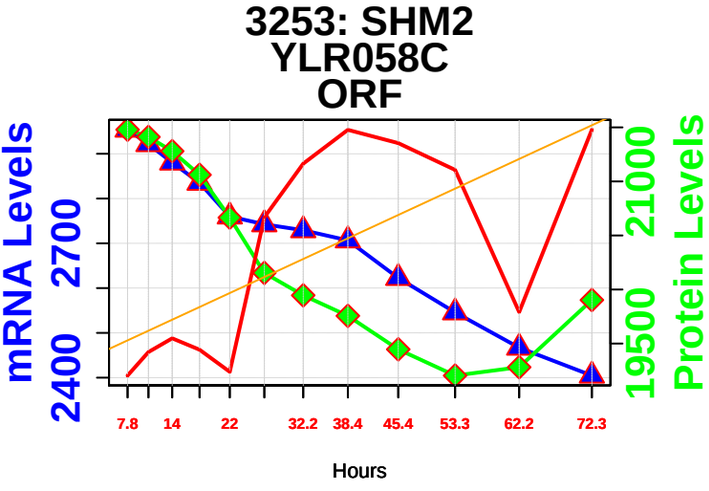

1958: MET13
YGL125W
ORF
mRNA Levels
80
95
110
Protein Levels
390
405
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

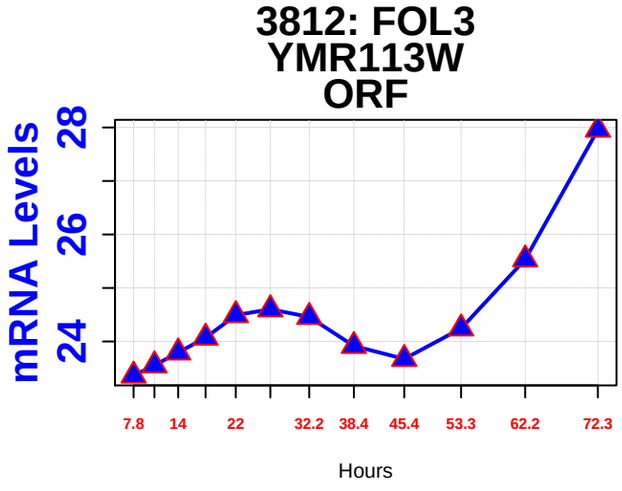

2247: ADE3
YGR204W
ORF
mRNA Levels
230
260
Protein Levels
3400
3700
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

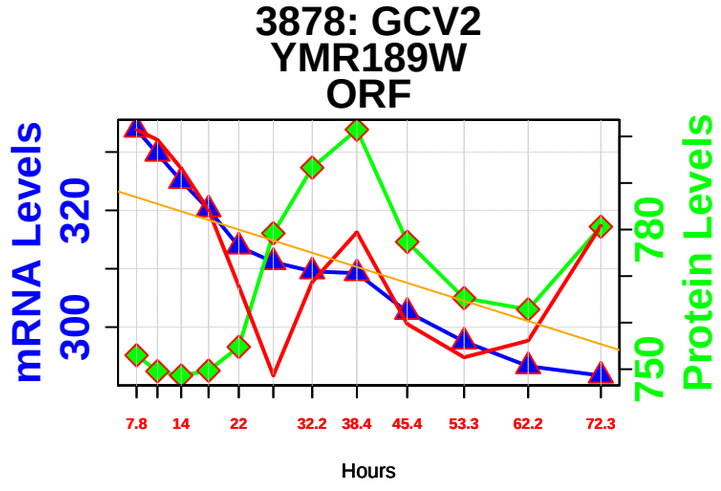

2299: FOL2
YGR267C
ORF
mRNA Levels
280
300
320
Protein Levels
66
72
78
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

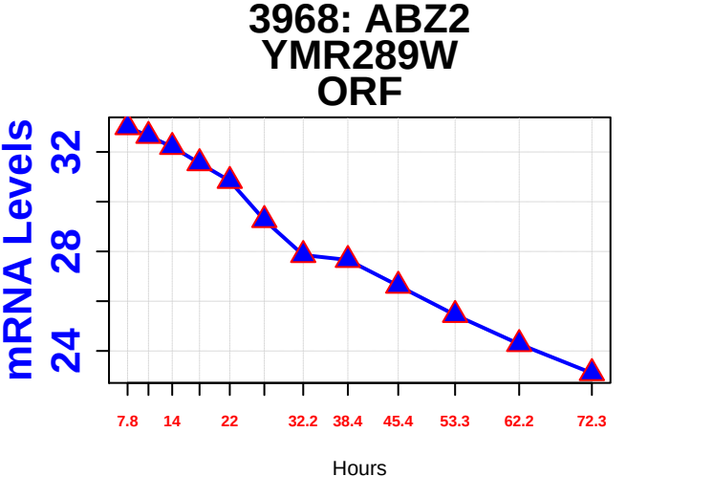

3130: MTD1
YKR080W
ORF
mRNA Levels
420
480
Protein Levels
200
300
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

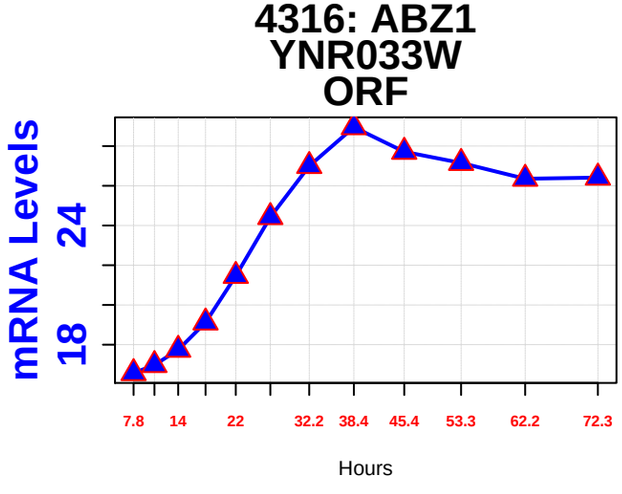
folate biosynthesis

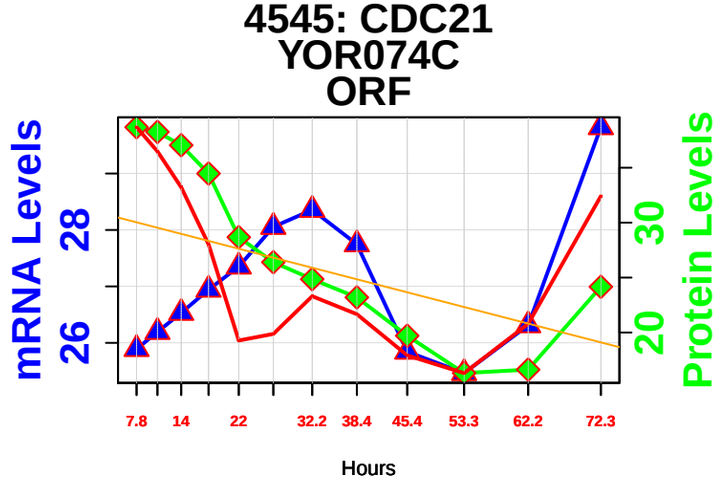


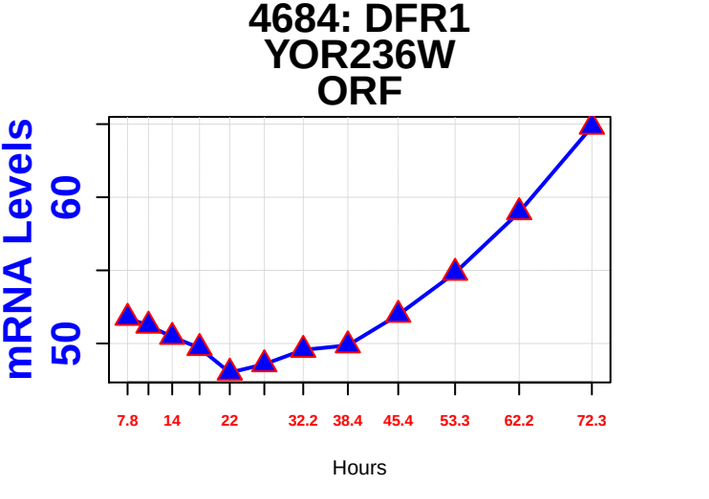


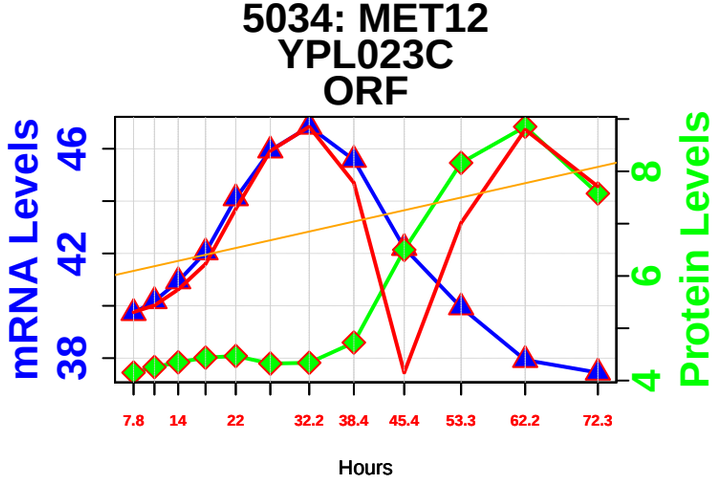


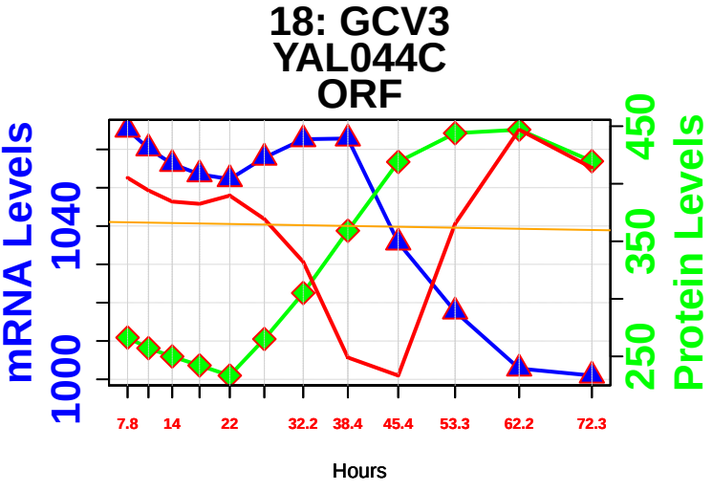


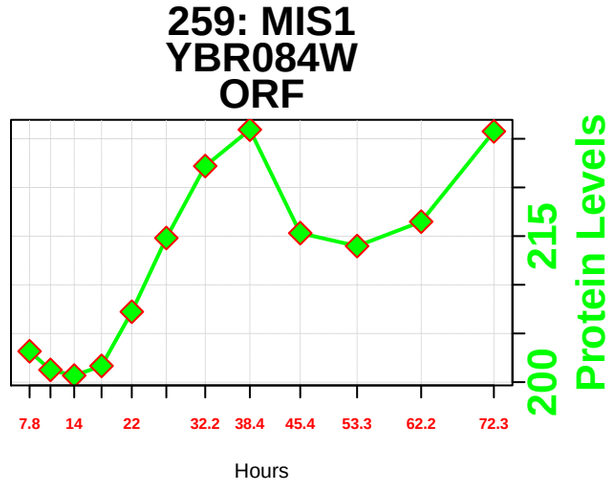


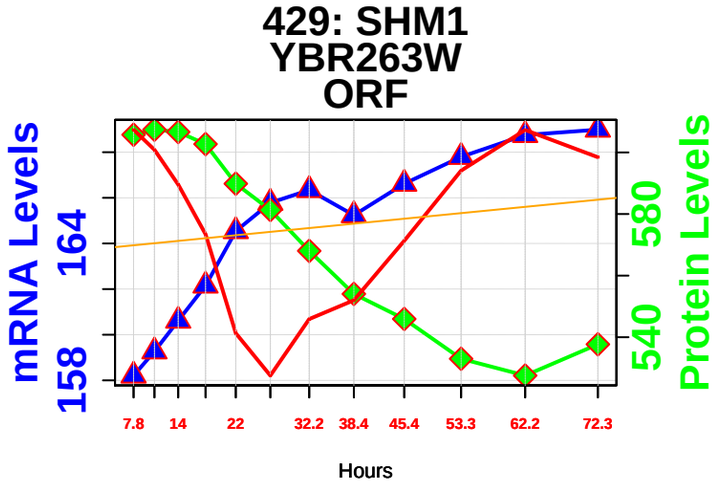


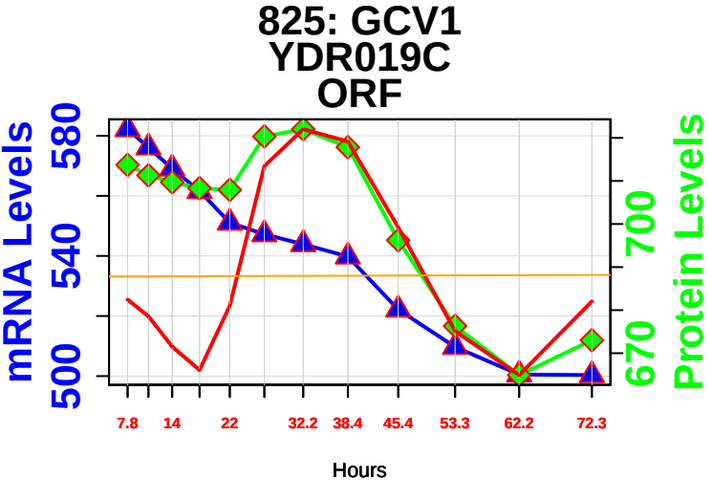


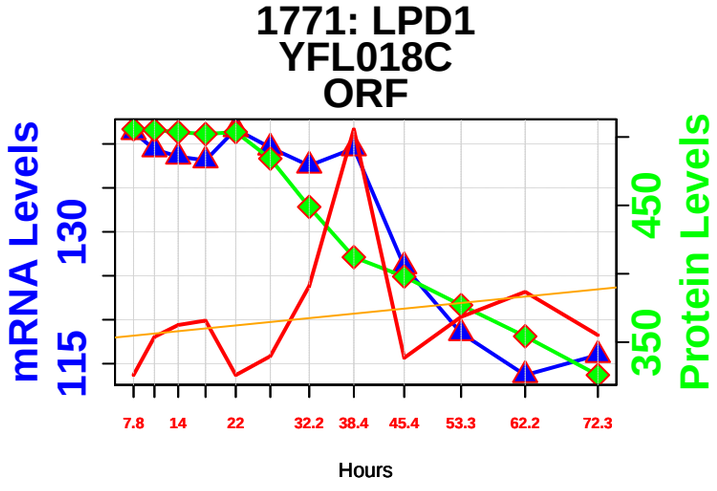


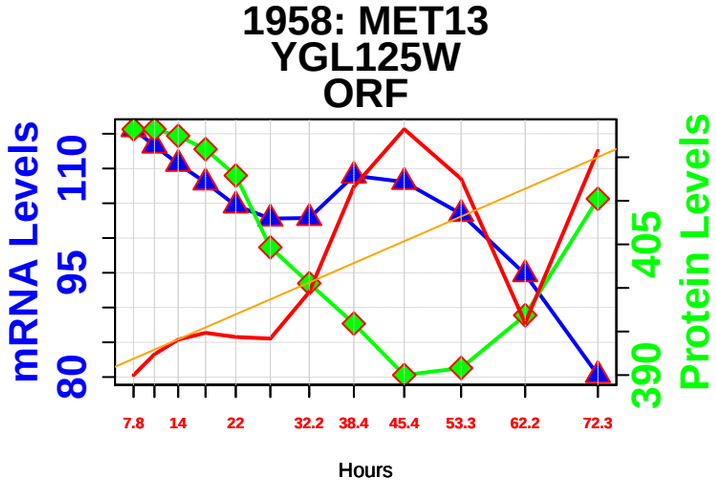

18: GCV3
YAL044C
ORF
mRNA Levels
1000
1040
Protein Levels
250
350
450
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

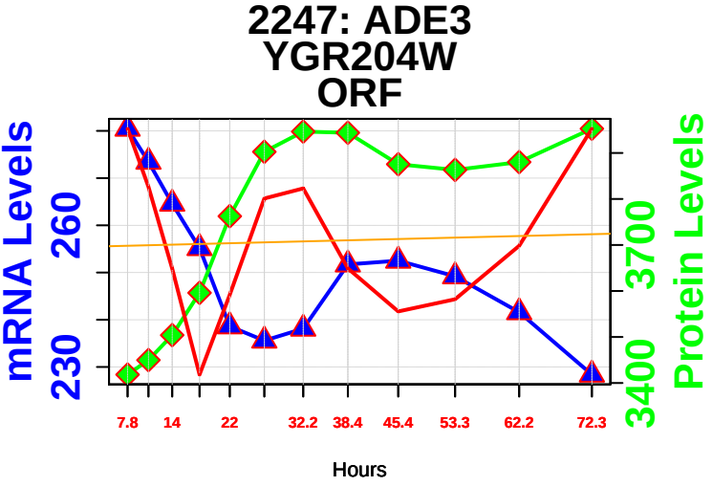

259: MIS1
YBR084W
ORF
Protein Levels
200
215
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

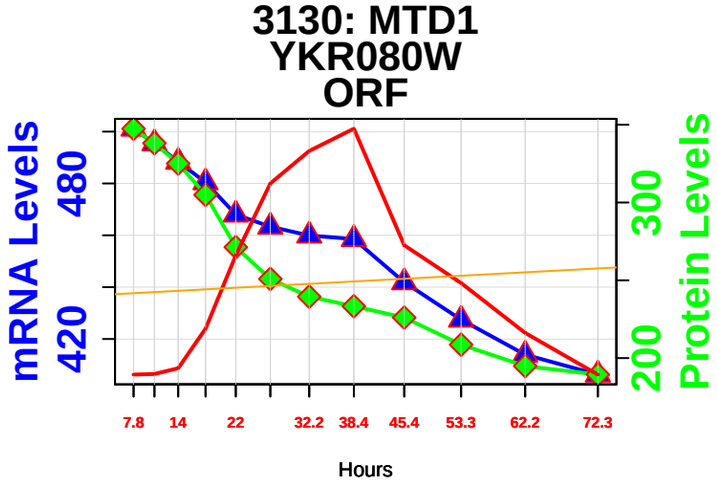

429: SHM1
YBR263W
ORF
mRNA Levels
158
164
Protein Levels
540
580
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

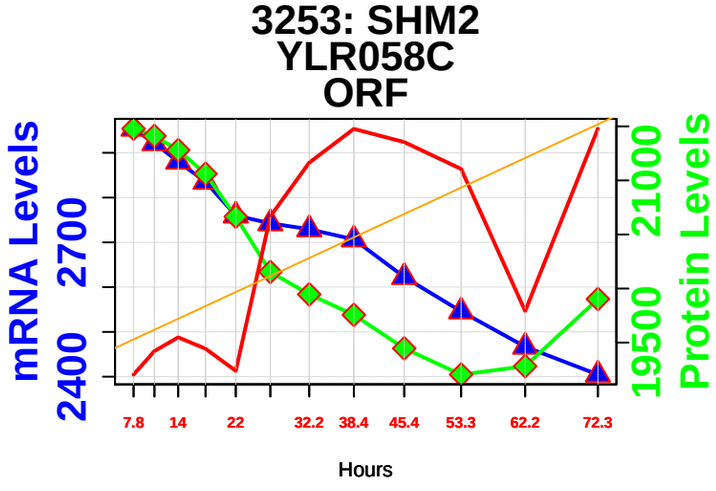

825: GCV1
YDR019C
ORF
mRNA Levels
500
540
580
Protein Levels
670
700
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours


1771: LPD1
YFL018C
ORF
mRNA Levels
115
130
Protein Levels
350
450
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

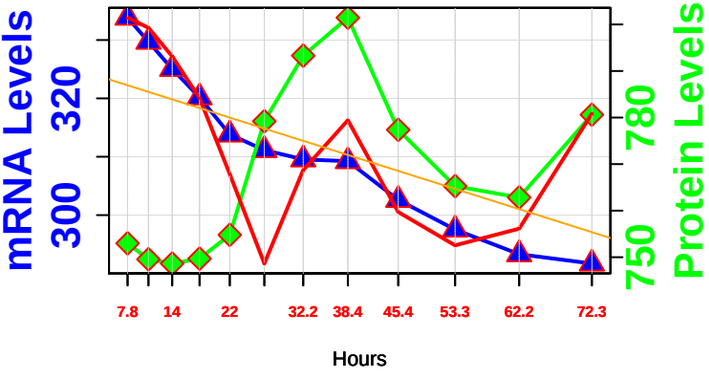

1958: MET13
YGL125W
ORF
mRNA Levels
80
95
110
Protein Levels
390
405
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours


2247: ADE3
YGR204W
ORF
mRNA Levels
230
260
Protein Levels
3400
3700
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

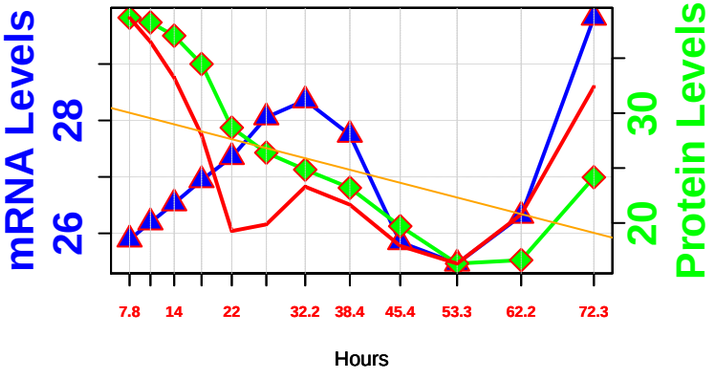

3130: MTD1
YKR080W
ORF
mRNA Levels
420
480
Protein Levels
200
300
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours


3253: SHM2
YLR058C
ORF
mRNA Levels
2400
2700
Protein Levels
19500
21000
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

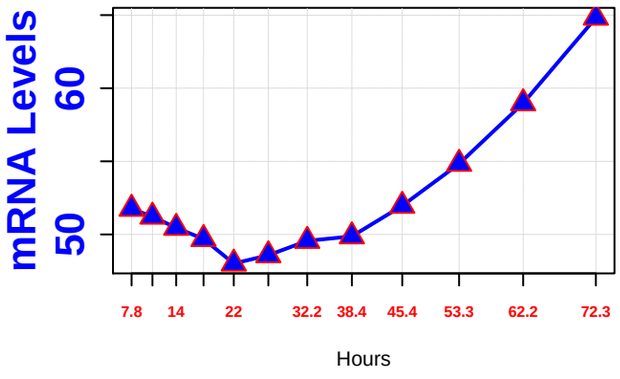
3878: GCV2 YMR189W ORF



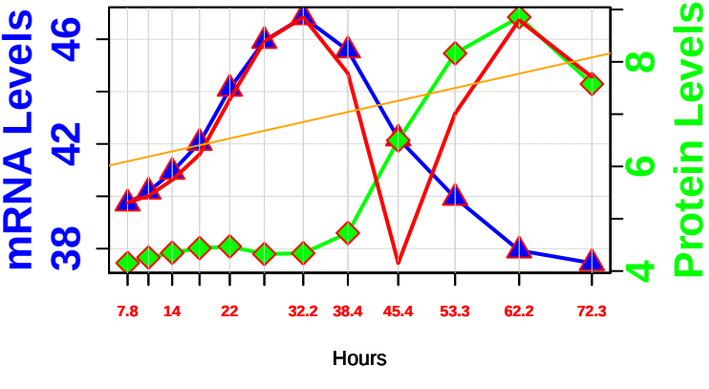
4545: CDC21 YOR074C ORF

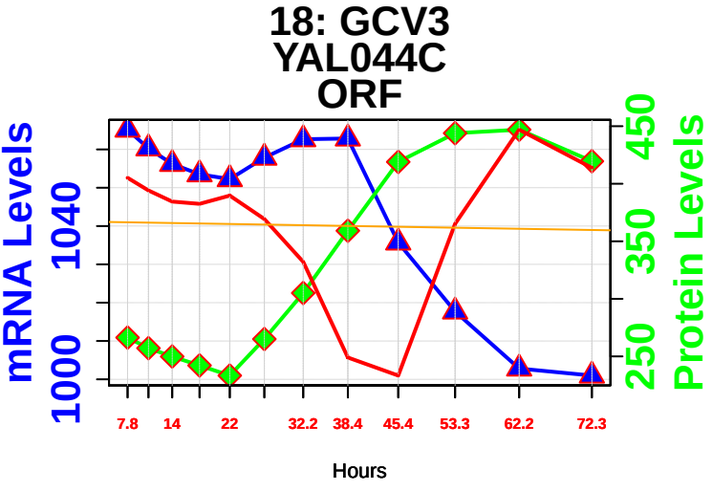


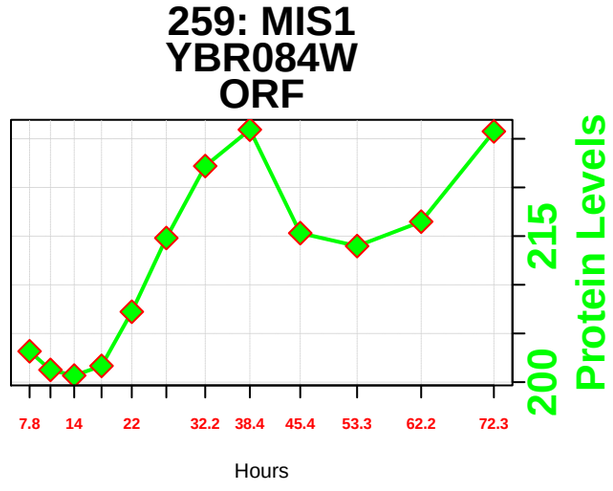
4684: DFR1 YOR236W ORF

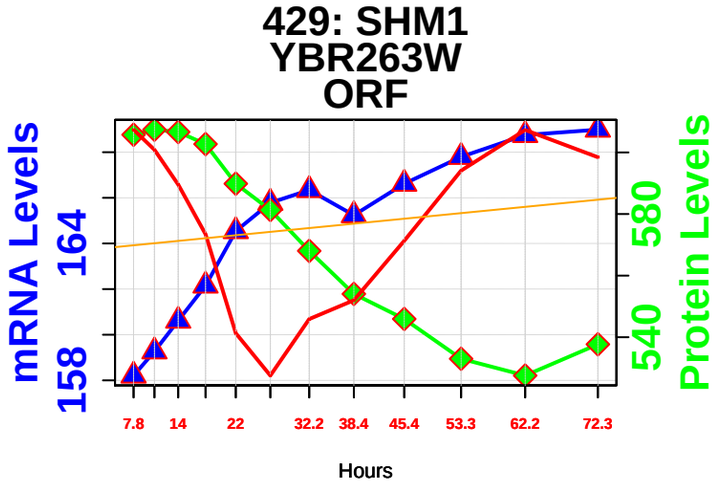


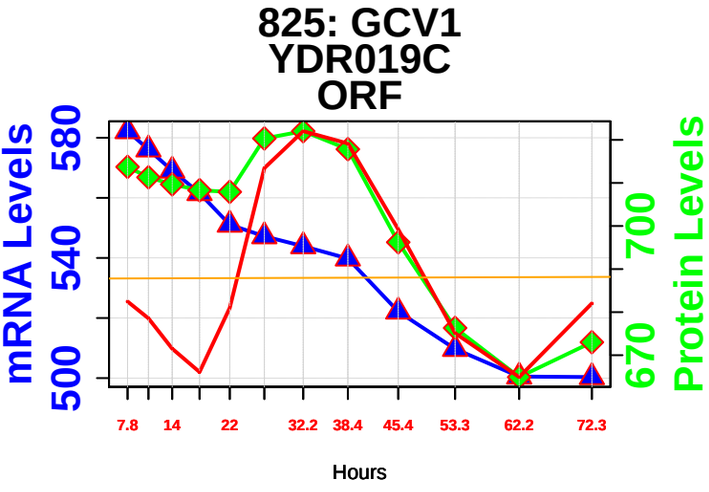
5034: MET12 YPL023C ORF

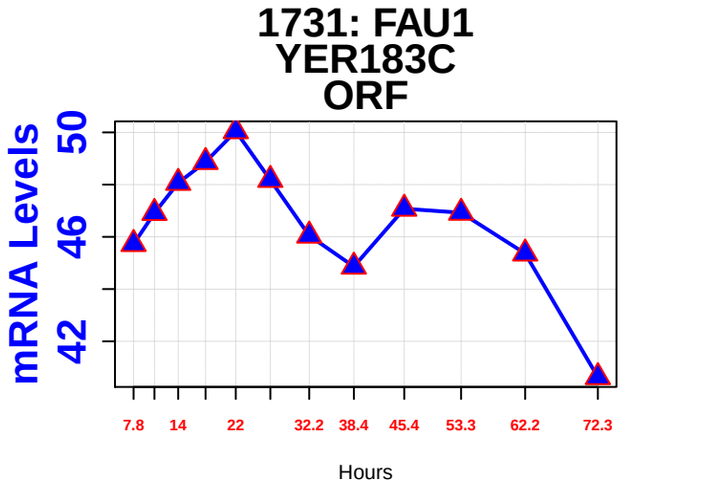


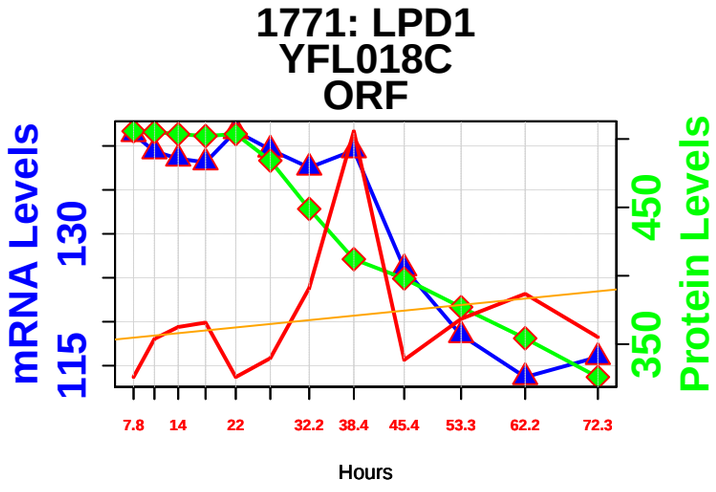

18: GCV3
YAL044C
ORF
mRNA Levels
1000
1040
Protein Levels
250
350
450
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

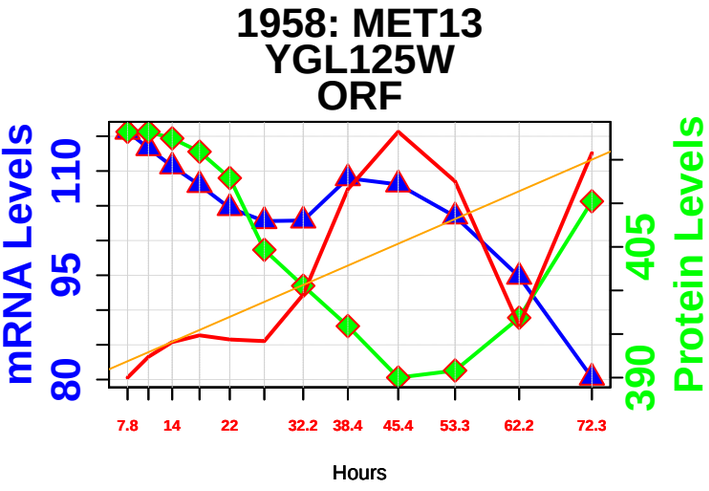

259: MIS1
YBR084W
ORF
Protein Levels
200
215
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

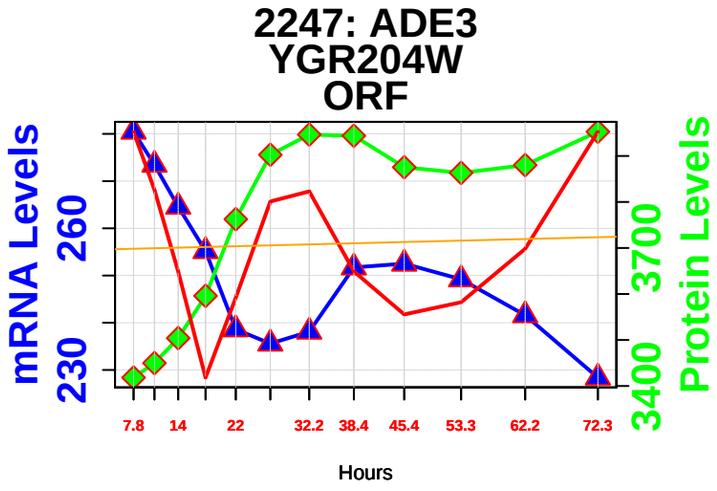

429: SHM1
YBR263W
ORF
mRNA Levels
158
164
Protein Levels
540
580
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

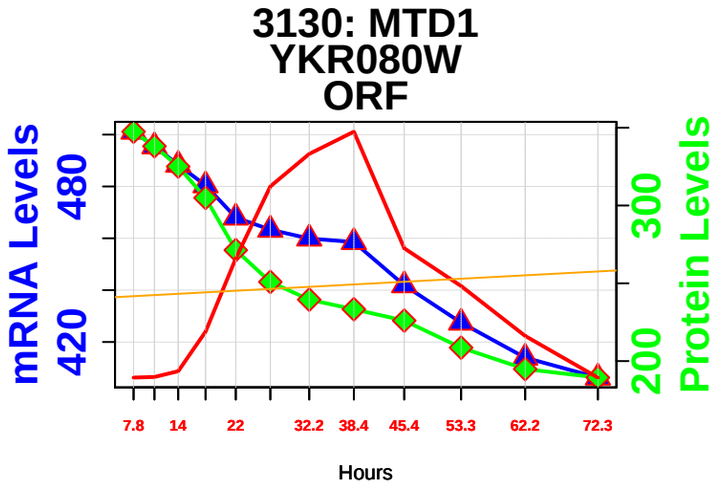

825: GCV1
YDR019C
ORF
mRNA Levels
500
540
580
Protein Levels
670
700
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours


1731: FAU1
YER183C
ORF
mRNA Levels
42
46
50
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

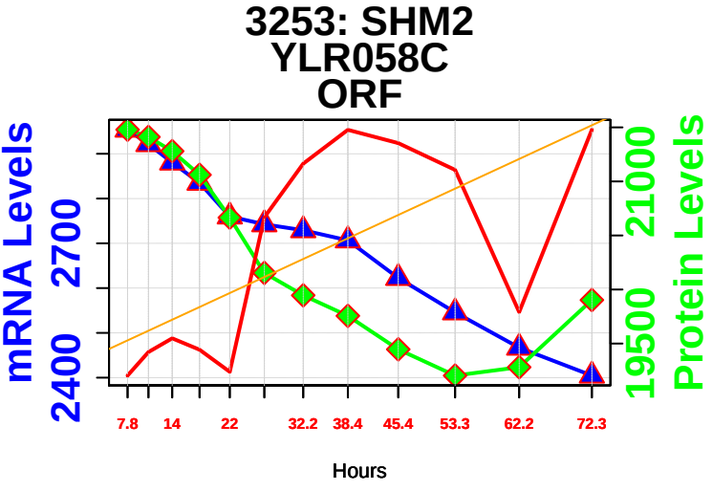

1771: LPD1
YFL018C
ORF
mRNA Levels
115
130
Protein Levels
350
450
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

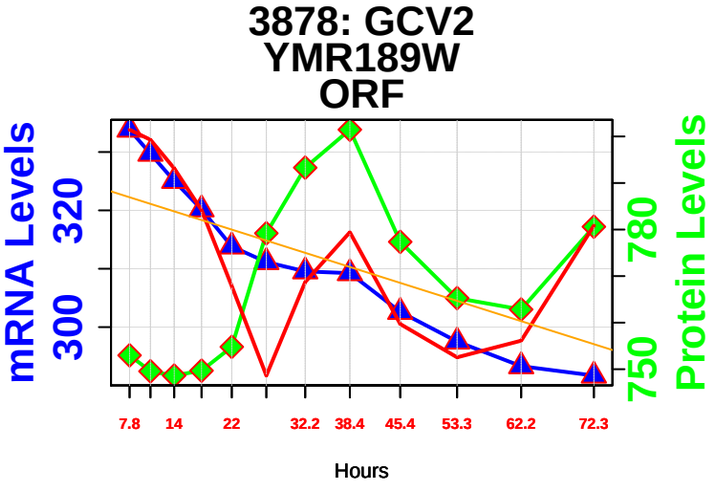

1958: MET13
YGL125W
ORF
mRNA Levels
80
95
110
Protein Levels
390
405
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

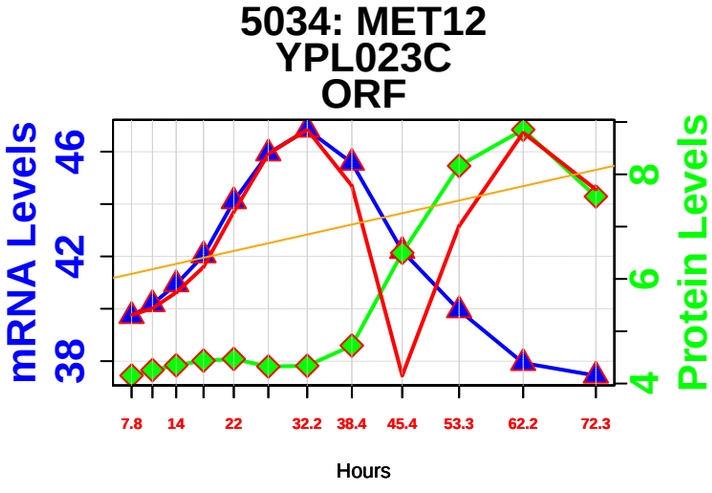

2247: ADE3
YGR204W
ORF
mRNA Levels
230
260
Protein Levels
3400
3700
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

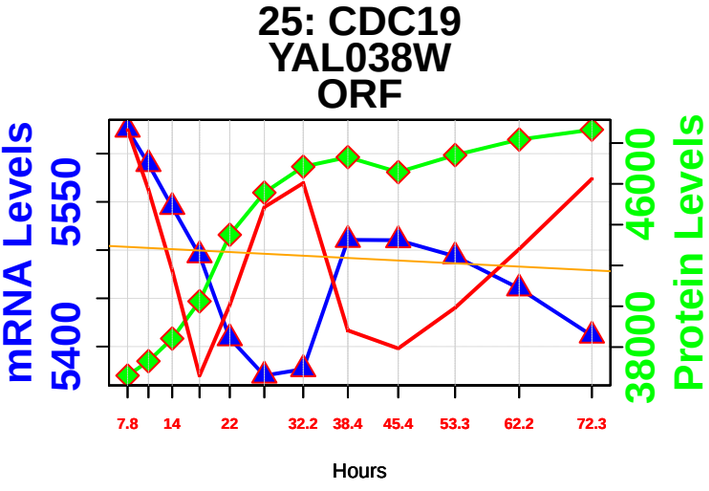

3130: MTD1
YKR080W
ORF
mRNA Levels
420
480
Protein Levels
200
300
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

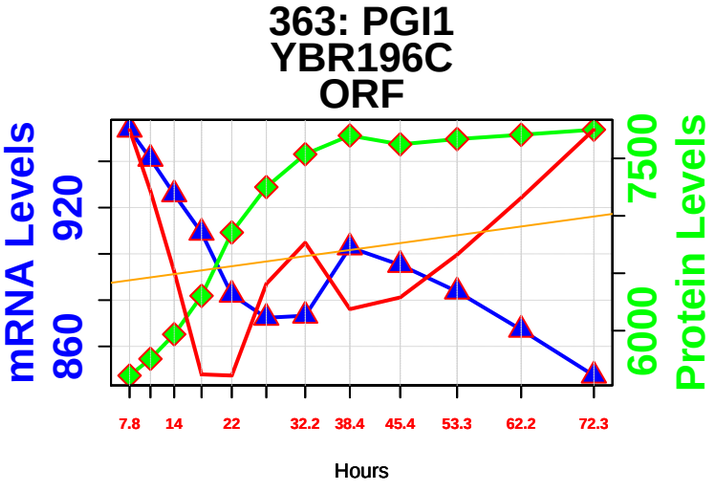
folate transformations

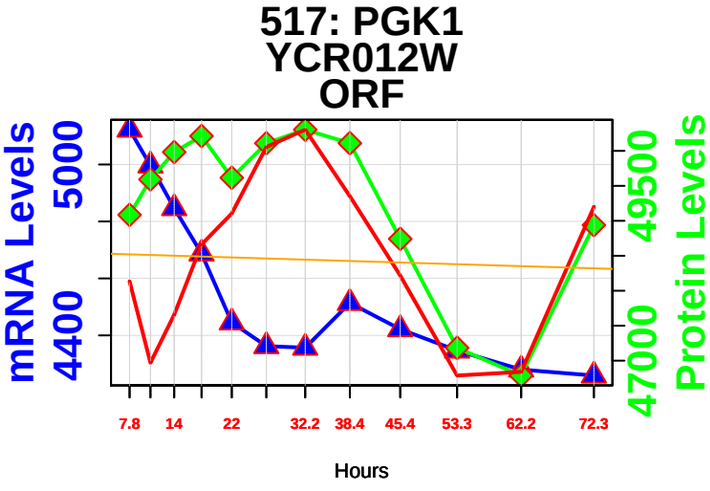


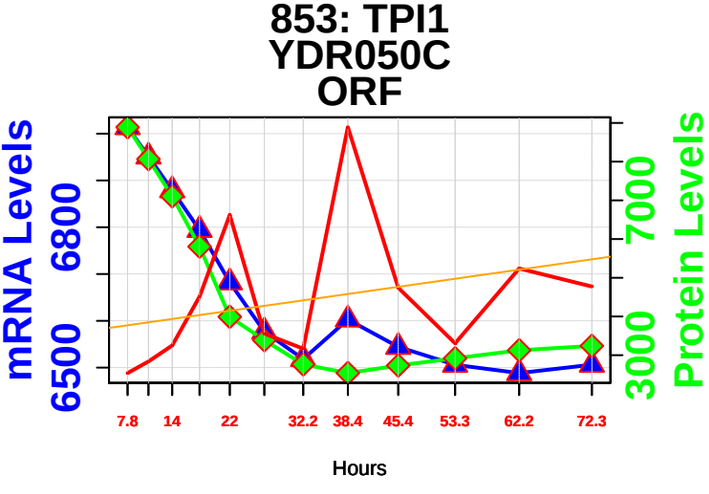


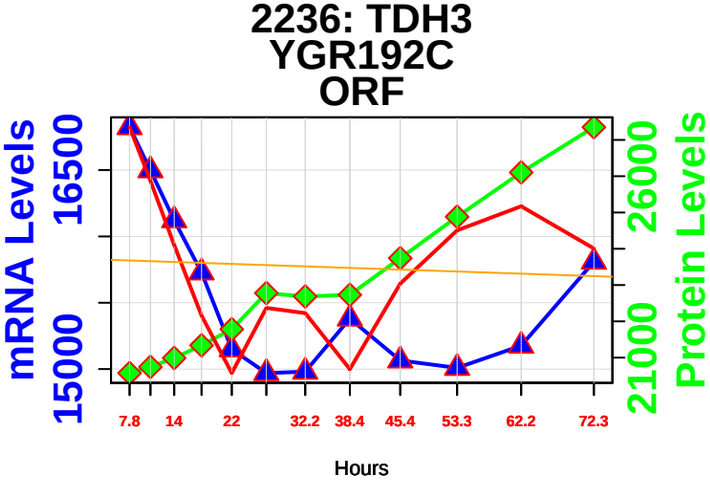


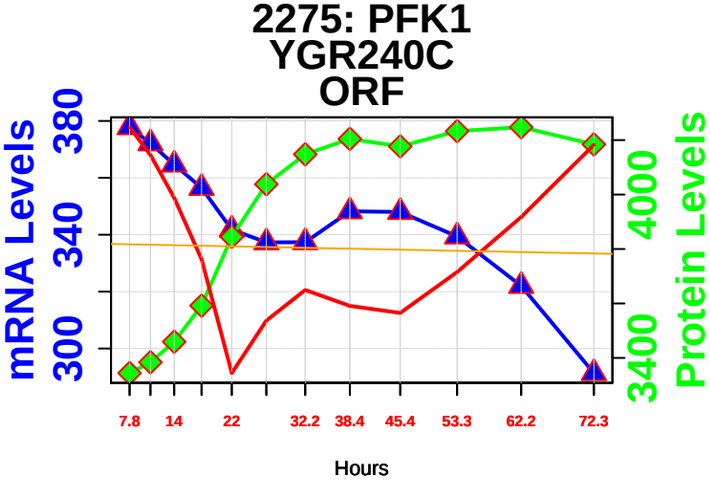

25: CDC19
YAL038W
ORF
mRNA Levels
5400
5550
Protein Levels
38000
46000
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

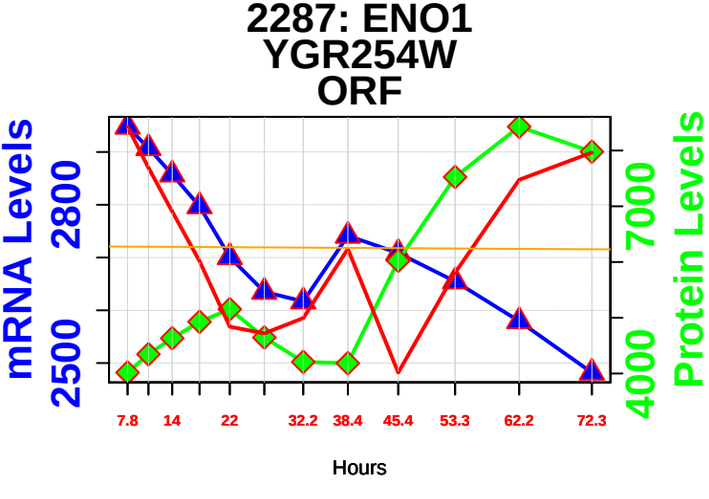

363: PGI1
YBR196C
ORF
mRNA Levels
860
920
Protein Levels
6000
7500
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

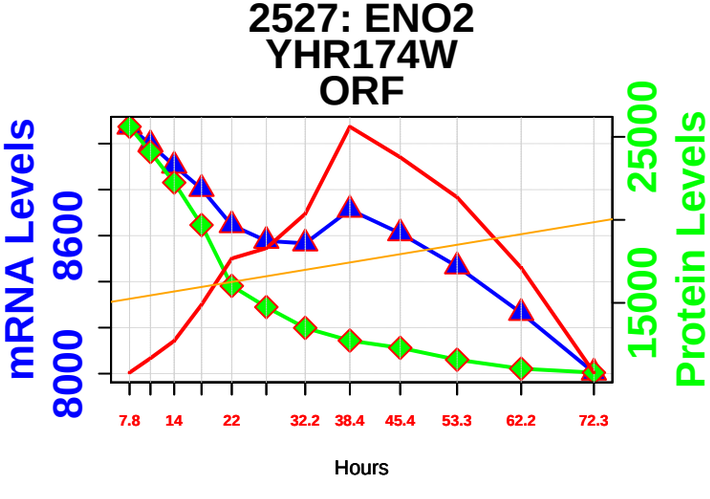

517: PGK1
YCR012W
ORF
mRNA Levels
4400
5000
Protein Levels
47000
49500
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

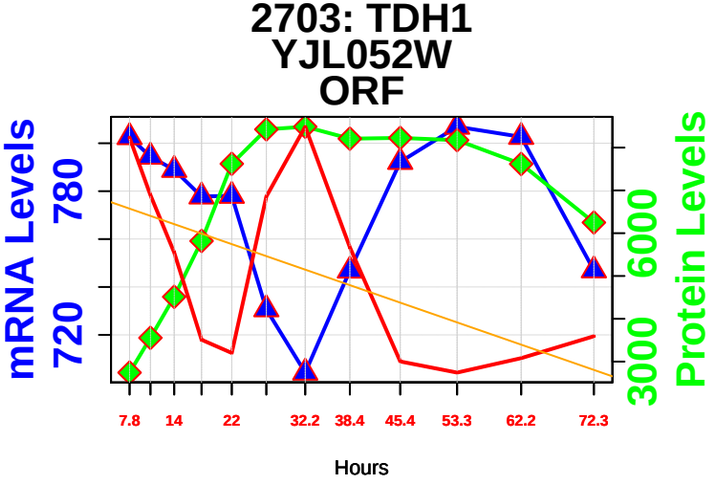

853: TPI1
YDR050C
ORF
mRNA Levels
6500
6800
Protein Levels
3000
7000
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours


2236: TDH3
YGR192C
ORF
mRNA Levels
15000
16500
Protein Levels
21000
26000
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

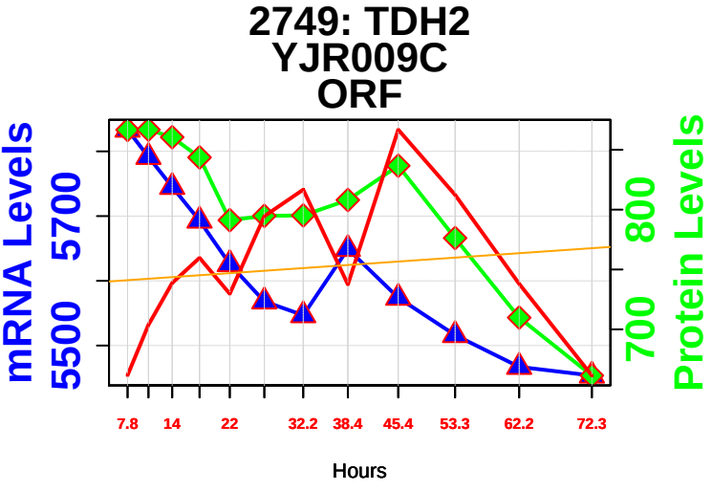

2275: PFK1
YGR240C
ORF
mRNA Levels
300
340
380
Protein Levels
3400
4000
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

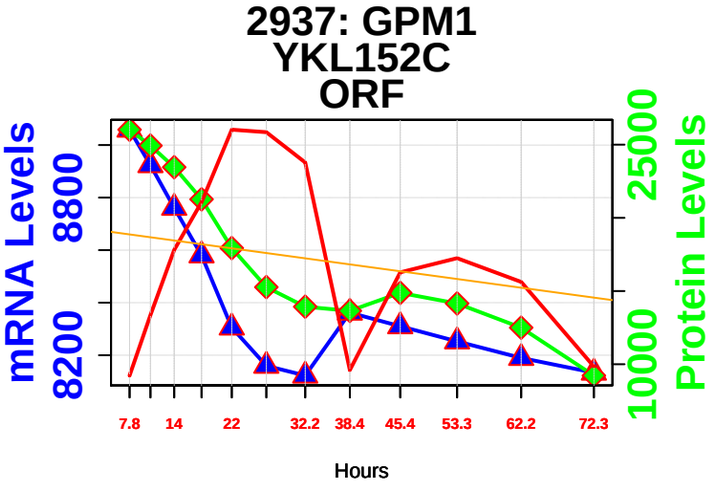

2287: ENO1
YGR254W
ORF
mRNA Levels
2500
2800
Protein Levels
4000
7000
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

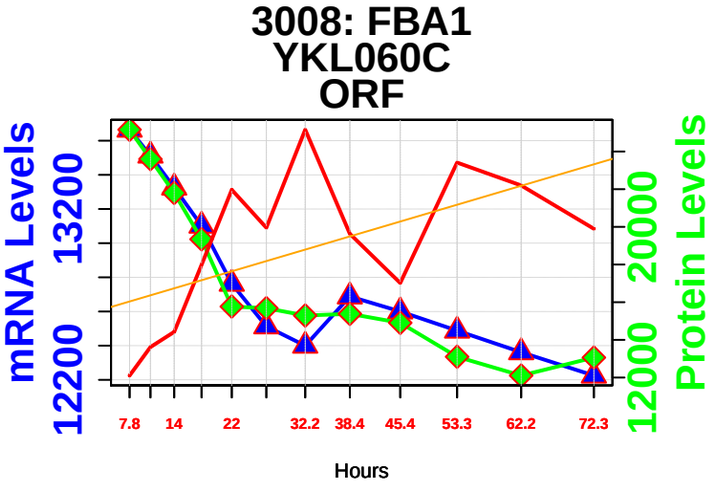

2527: ENO2
YHR174W
ORF
mRNA Levels
8000
8600
Protein Levels
15000
25000
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

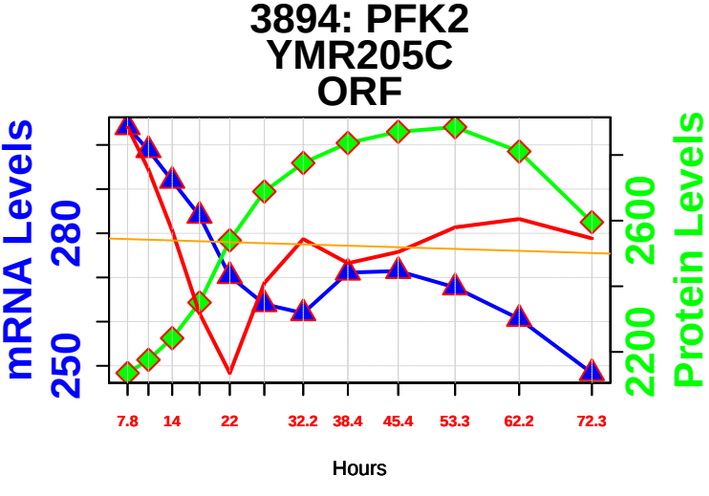

2703: TDH1
YJL052W
ORF
mRNA Levels
720
780
Protein Levels
3000
6000
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

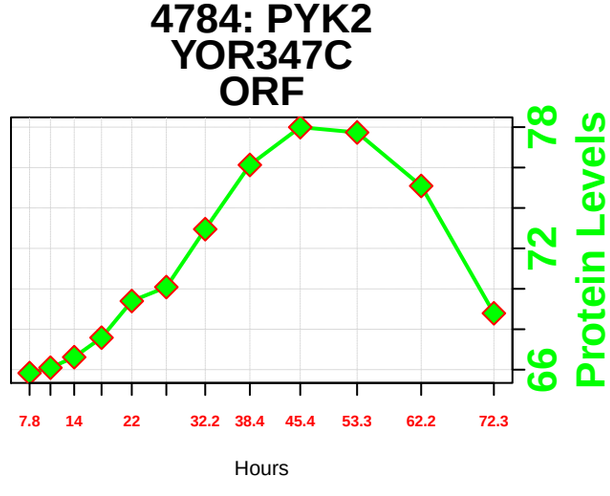
glycolysis


2749: TDH2
YJR009C
ORF
mRNA Levels
5500
5700
Protein Levels
700
800
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

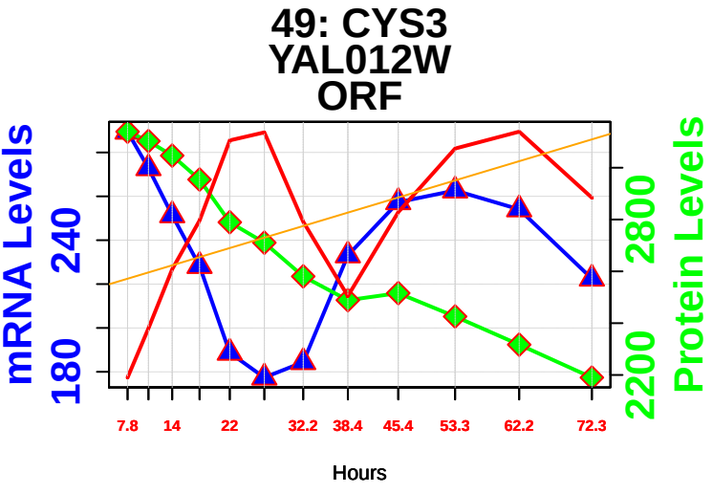

2937: GPM1
YKL152C
ORF
mRNA Levels
8200
8800
Protein Levels
10000
25000
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

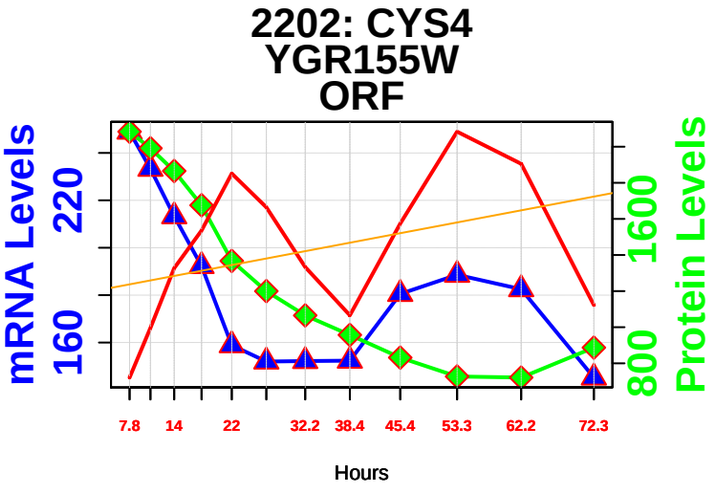

3008: FBA1
YKL060C
ORF
mRNA Levels
12200
13200
Protein Levels
12000
20000
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours


3894: PFK2
YMR205C
ORF
mRNA Levels
250
280
Protein Levels
2200
2600
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

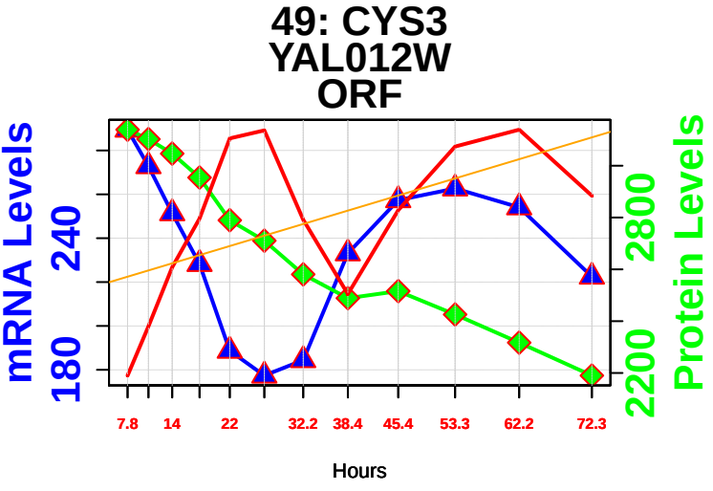

4784: PYK2
YOR347C
ORF
mRNA Levels
Protein Levels
66
72
78
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

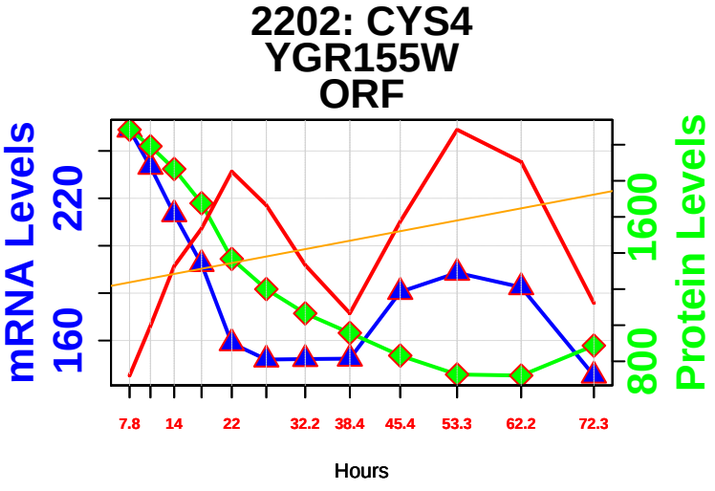
cysteine biosynthesis from homocysteine



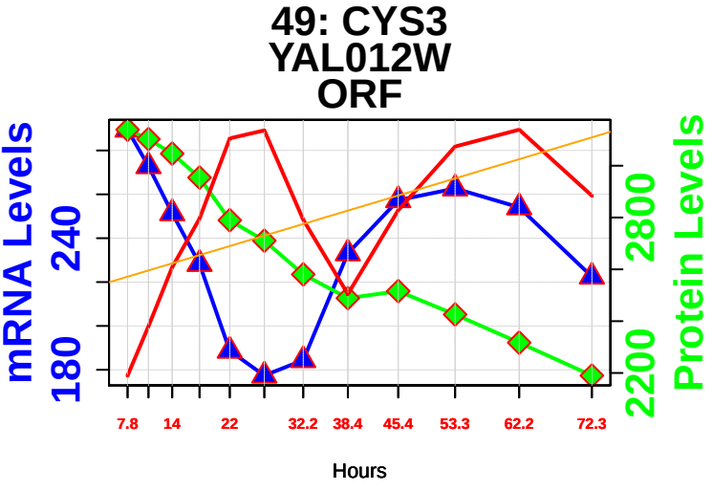


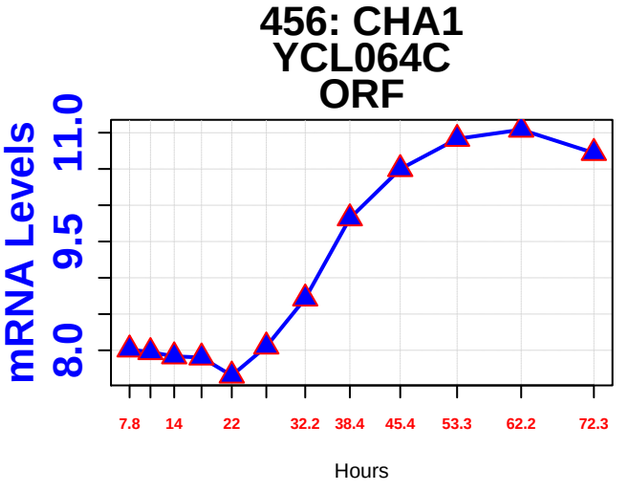
cysteine biosynthesis/homocysteine degradation

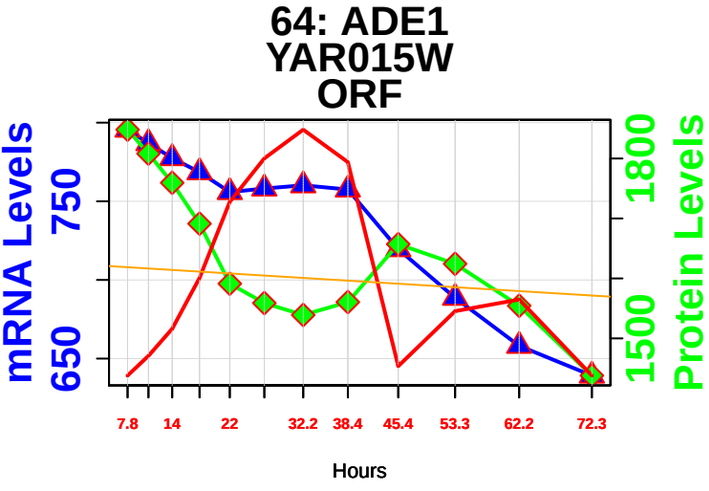


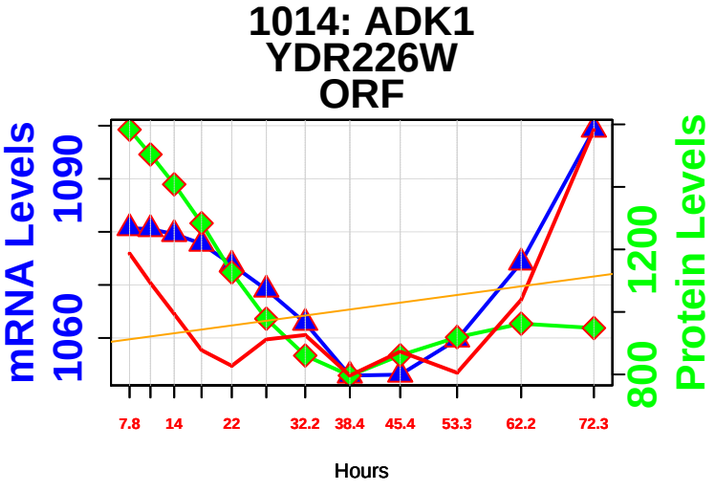


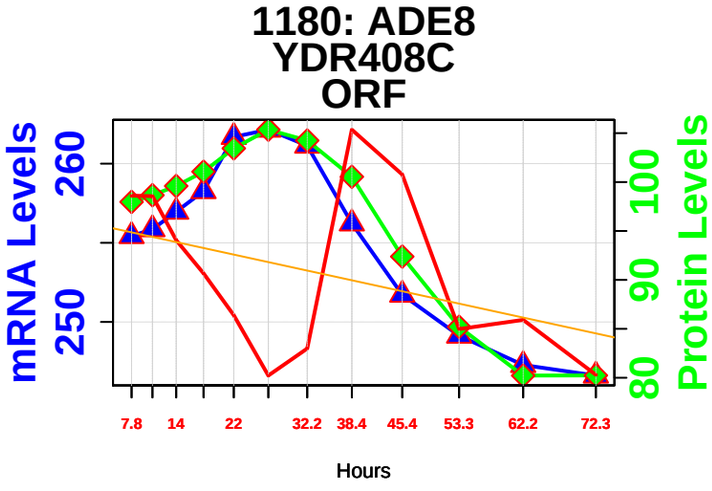
threonine degradation

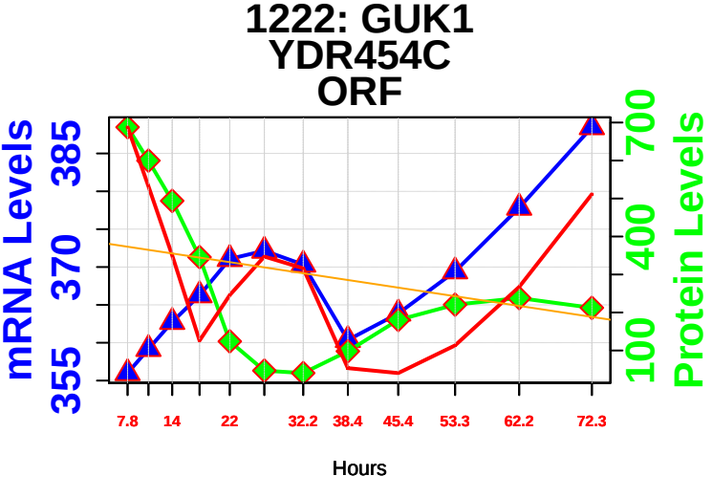


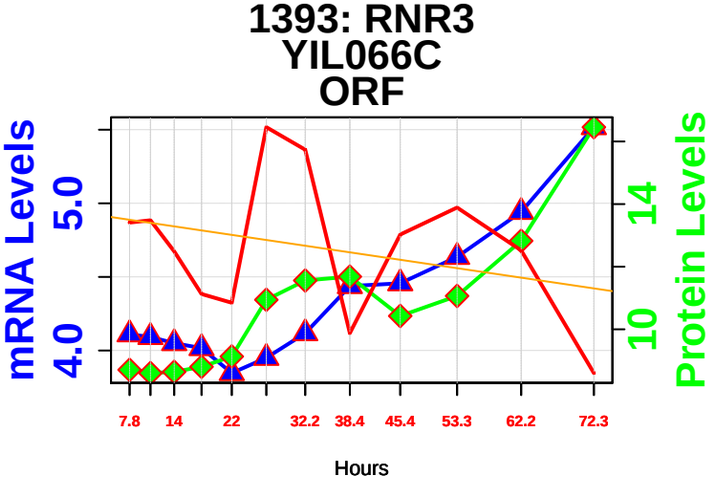


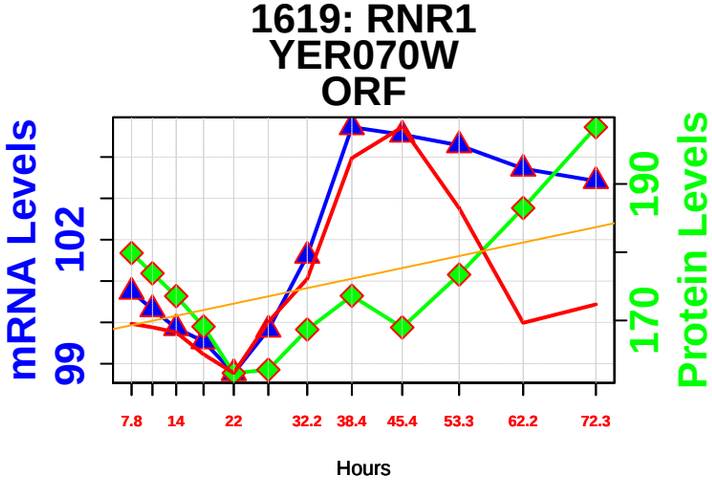

64: ADE1
YAR015W
ORF
mRNA Levels
650
750
Protein Levels
1500
1800
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

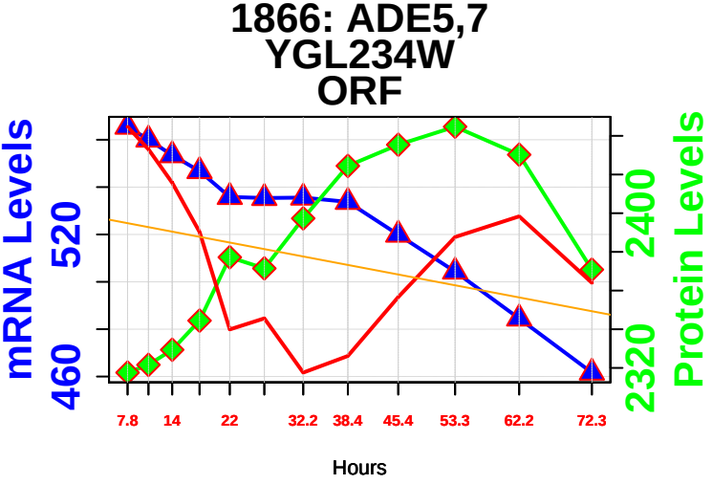

1014: ADK1
YDR226W
ORF
mRNA Levels
1060
1090
Protein Levels
800
1200
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

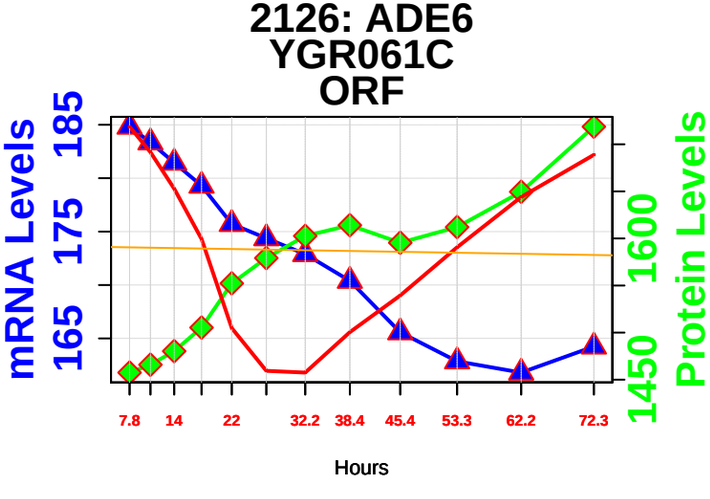

1180: ADE8
YDR408C
ORF
mRNA Levels
250
260
Protein Levels
80
90
100
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

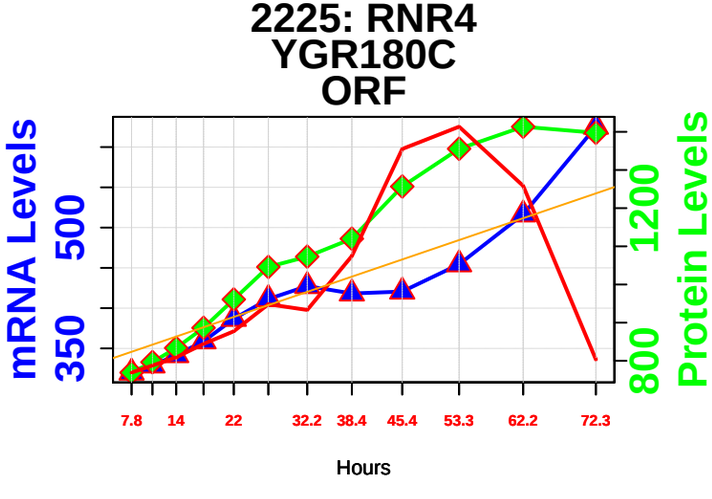

1222: GUK1
YDR454C
ORF
mRNA Levels
355
370
385
Protein Levels
100
400
700
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

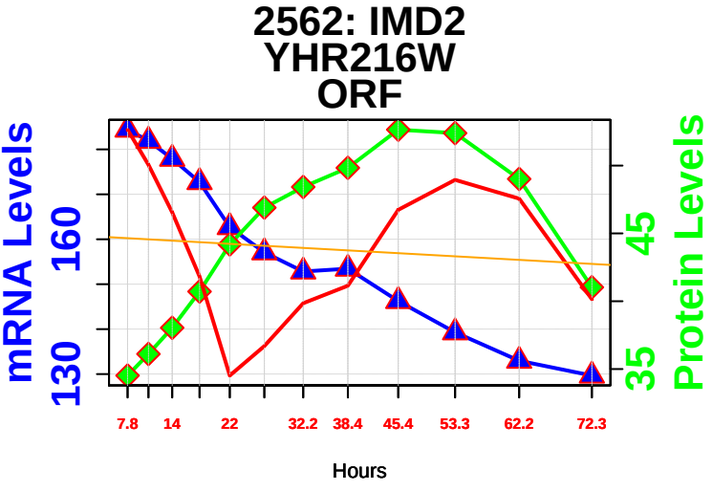

1393: RNR3
YIL066C
ORF
mRNA Levels
4.0
5.0
Protein Levels
10
14
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

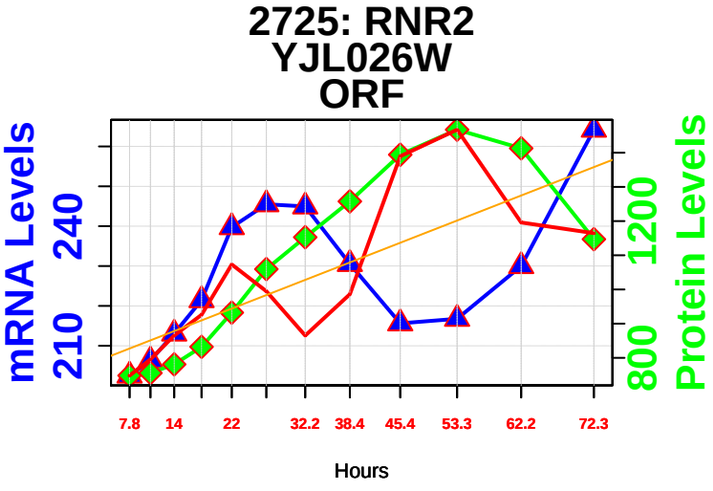

1619: RNR1
YER070W
ORF
mRNA Levels
99
102
Protein Levels
170
190
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

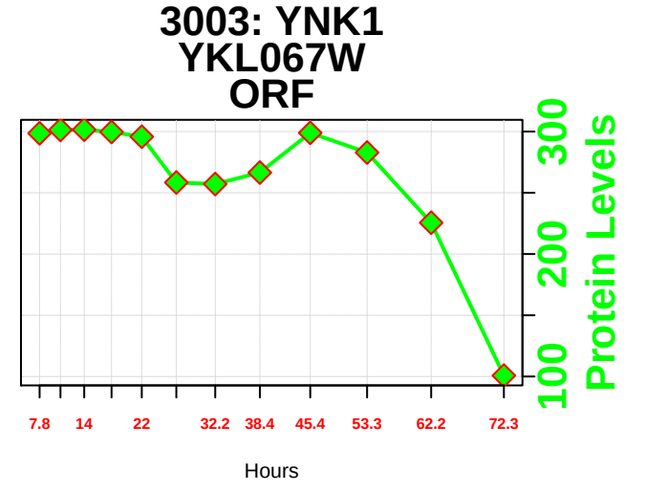

1866: ADE5,7
YGL234W
ORF
mRNA Levels
460
520
Protein Levels
2320
2400
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

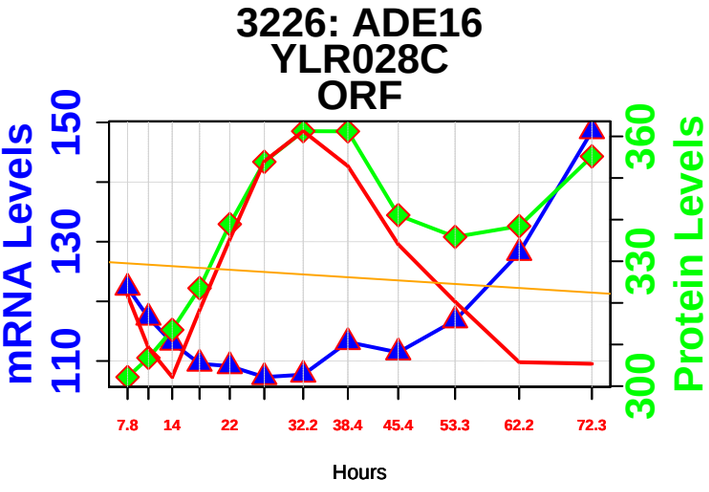

2126: ADE6
YGR061C
ORF
mRNA Levels
165
175
185
Protein Levels
1450
1600
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

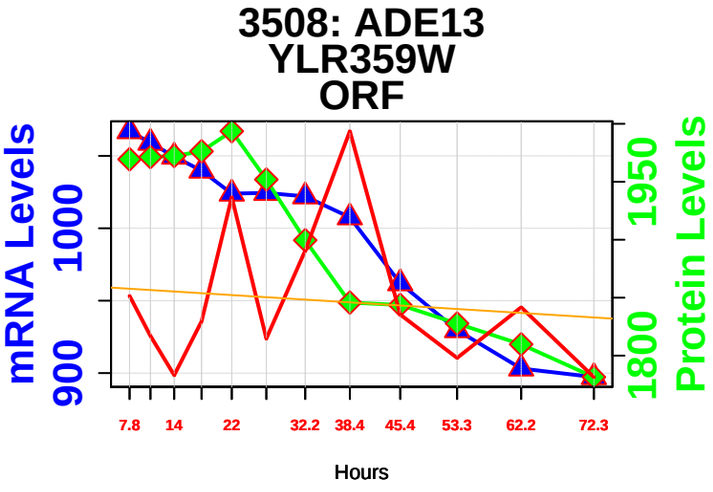

2225: RNR4
YGR180C
ORF
mRNA Levels
350
500
Protein Levels
800
1200
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

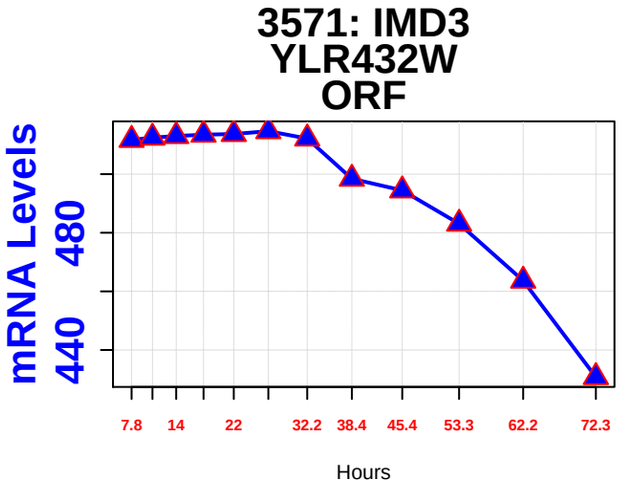

2562: IMD2
YHR216W
ORF
mRNA Levels
130
160
Protein Levels
35
45
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

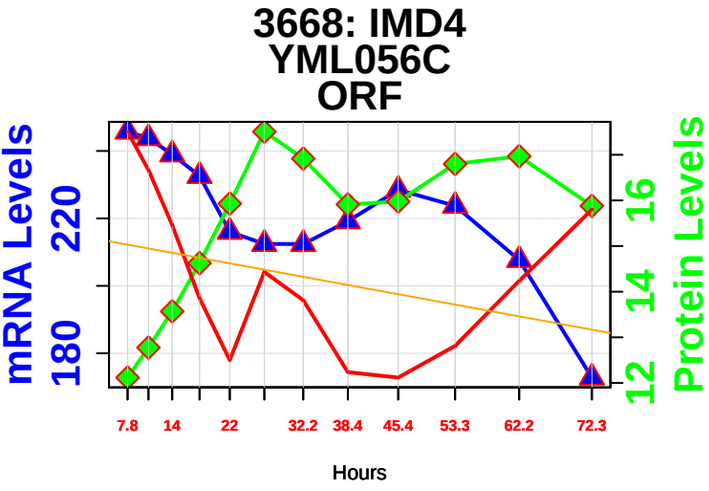

2725: RNR2
YJL026W
ORF
mRNA Levels
210
240
Protein Levels
800
1200
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

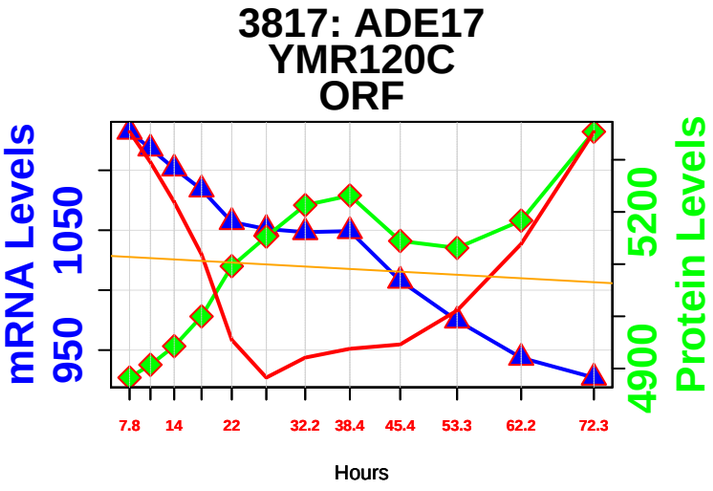

3003: YNK1
YKL067W
ORF
Protein Levels
100
200
300
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

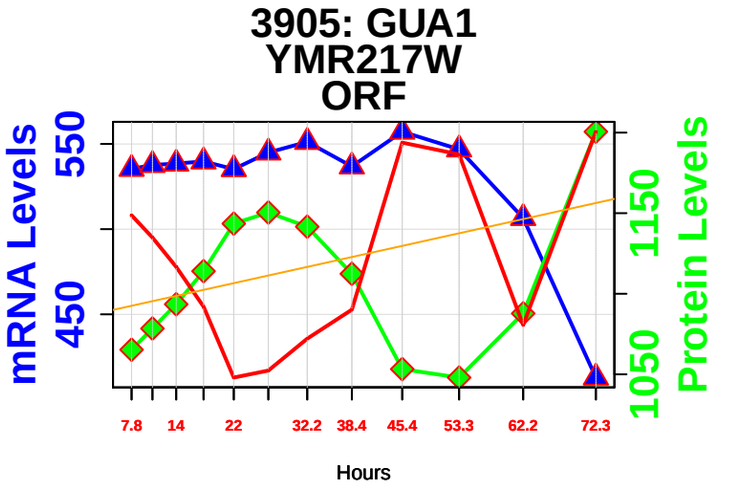

3226: ADE16
YLR028C
ORF
mRNA Levels
110
130
150
Protein Levels
300
330
360
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours


3508: ADE13
YLR359W
ORF
mRNA Levels
900
1000
Protein Levels
1800
1950
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

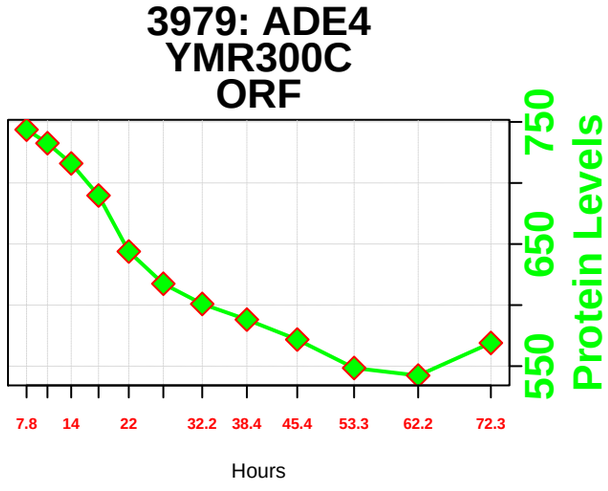

3571: IMD3
YLR432W
ORF
mRNA Levels
440
480
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

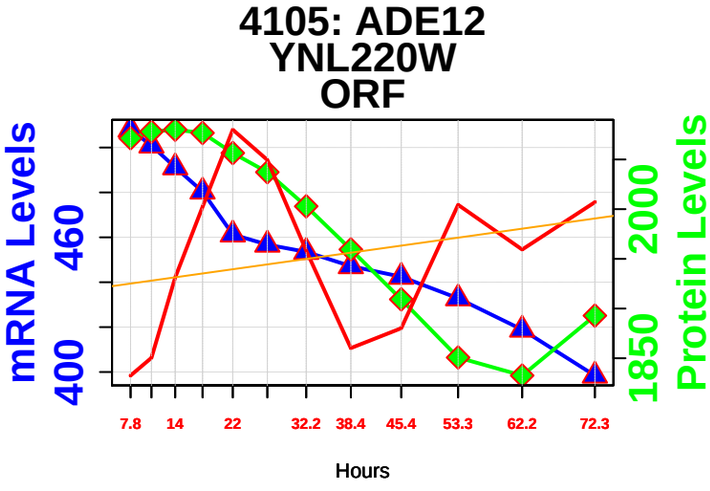

3668: IMD4
YML056C
ORF
mRNA Levels
180
220
Protein Levels
12
14
16
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

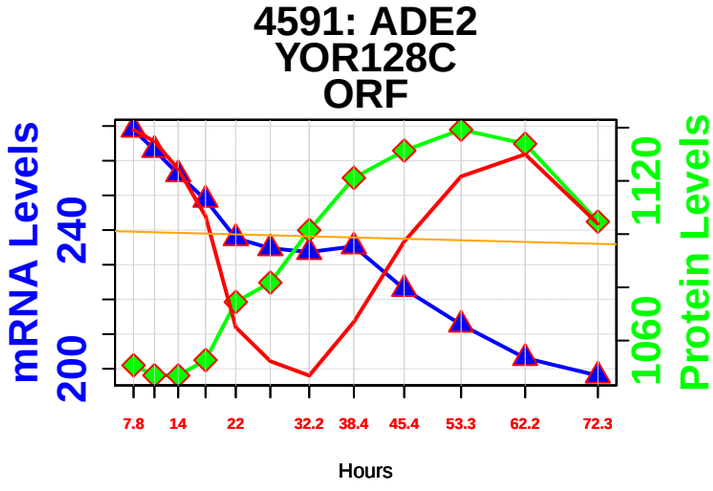

3817: ADE17
YMR120C
ORF
mRNA Levels
950
1050
Protein Levels
4900
5200
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours


3905: GUA1
YMR217W
ORF
mRNA Levels
450
550
Protein Levels
1050
1150
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

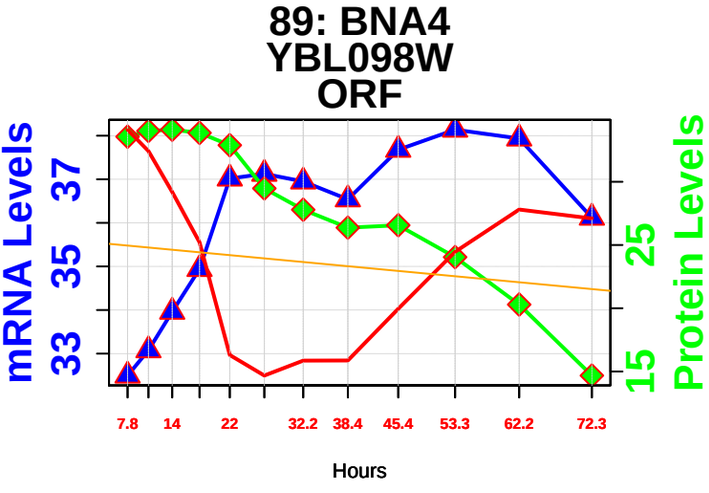
de novo biosynthesis of purine nucleotides

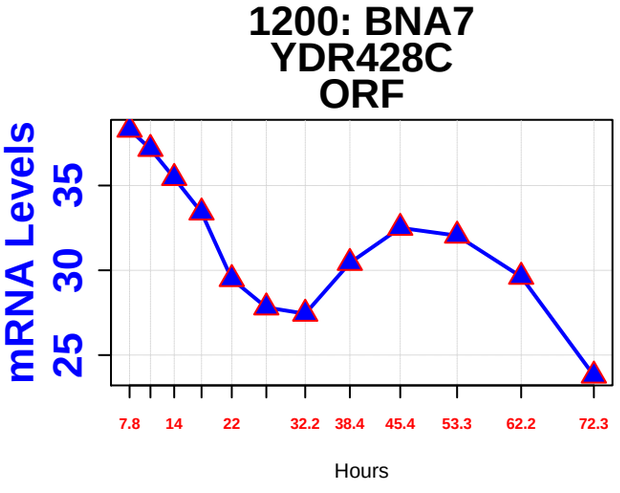


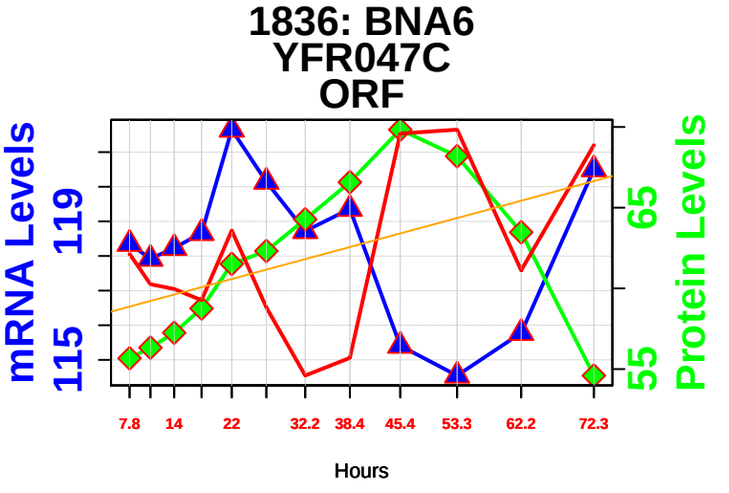


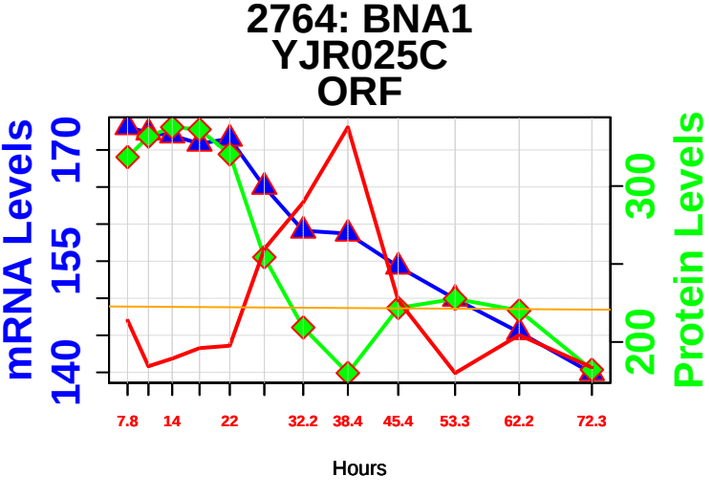


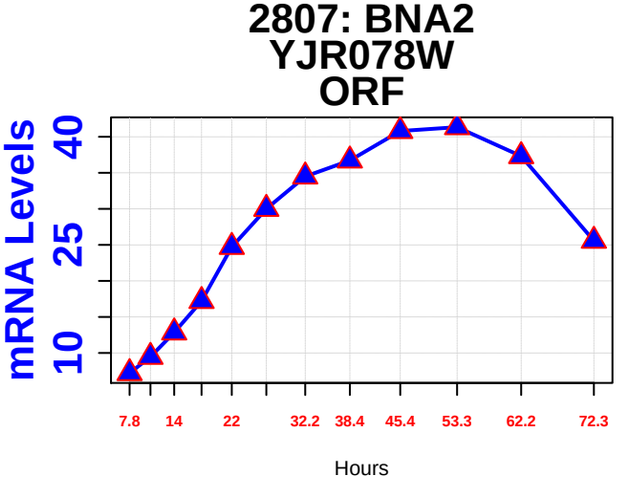
tryptophan degradation via kynurenine

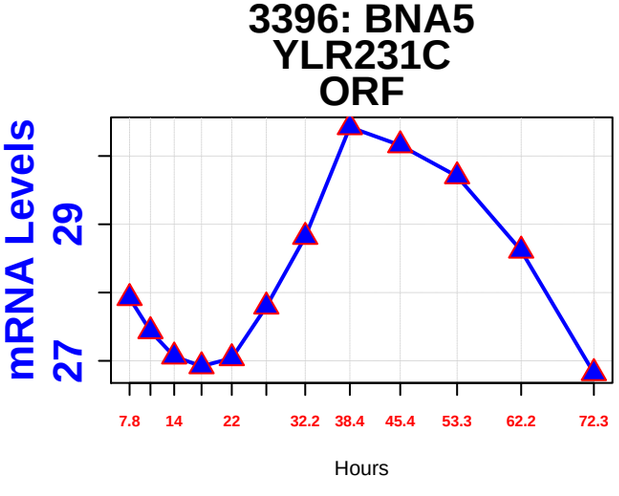


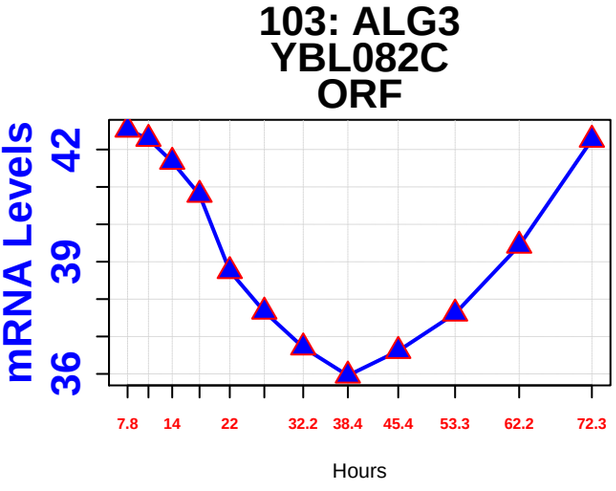


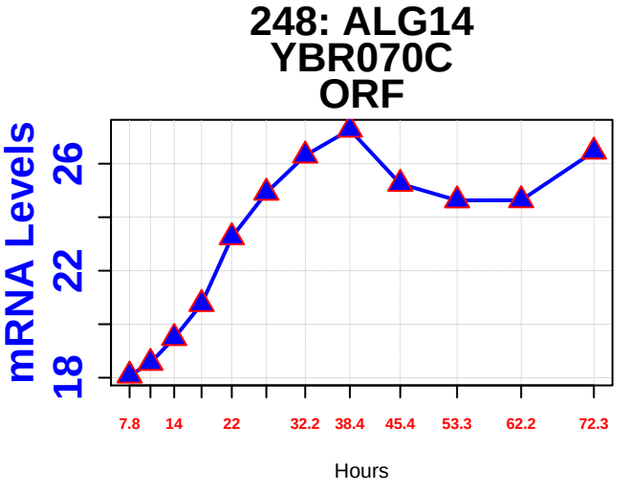


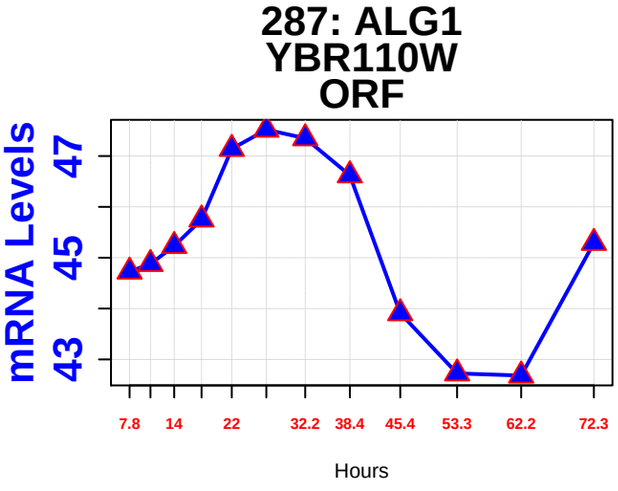


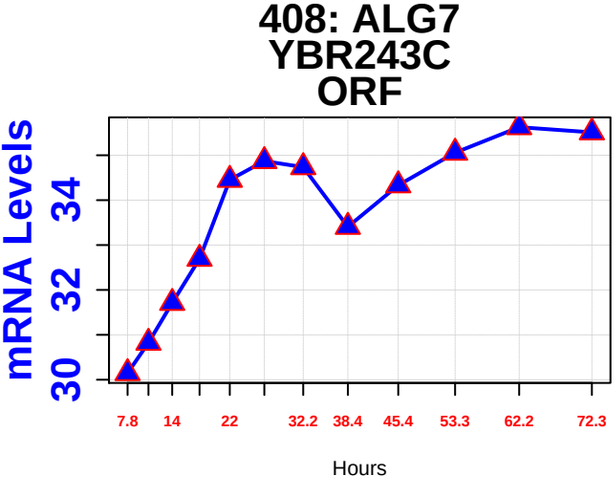


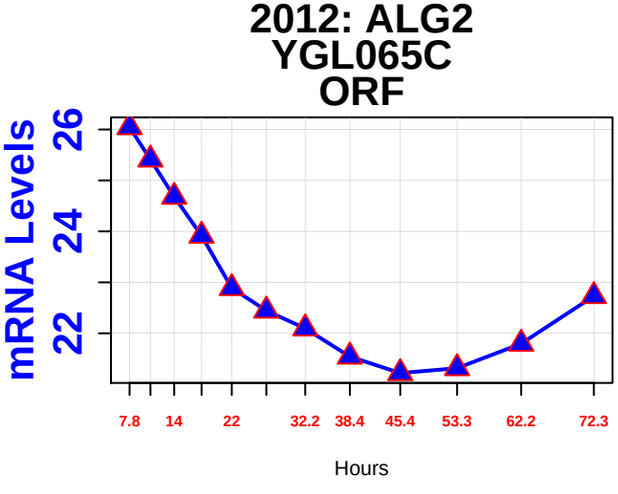


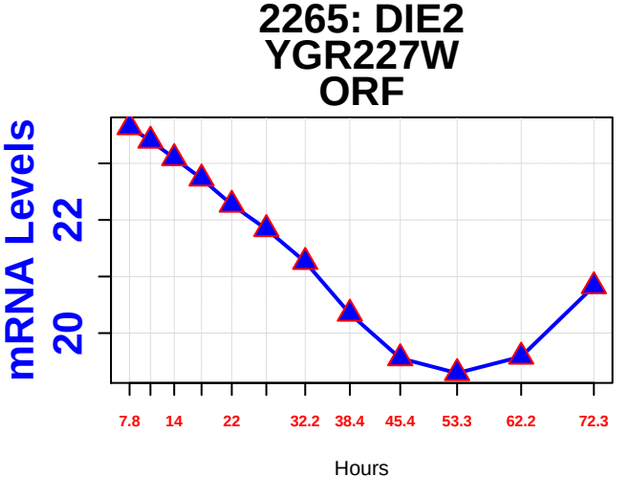

103: ALG3
YBL082C
ORF
mRNA Levels
36
39
42
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

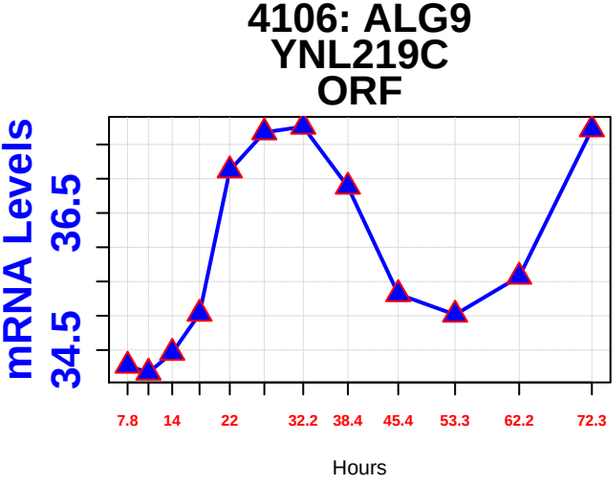

248: ALG14
YBR070C
ORF
mRNA Levels
18
22
26
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

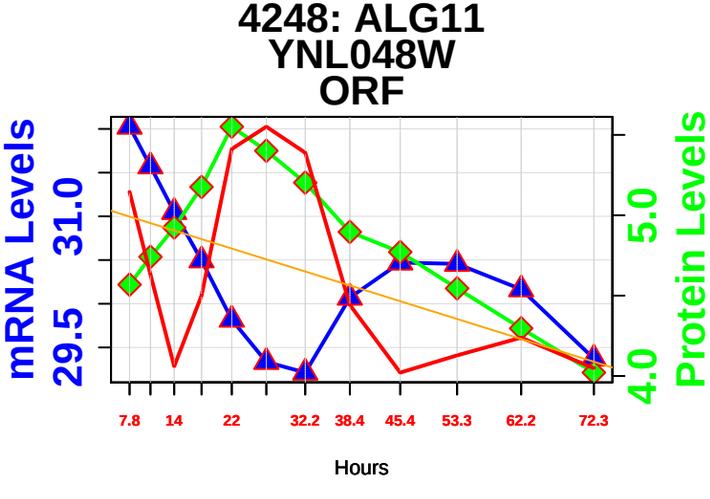

287: ALG1
YBR110W
ORF
mRNA Levels
43
45
47
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

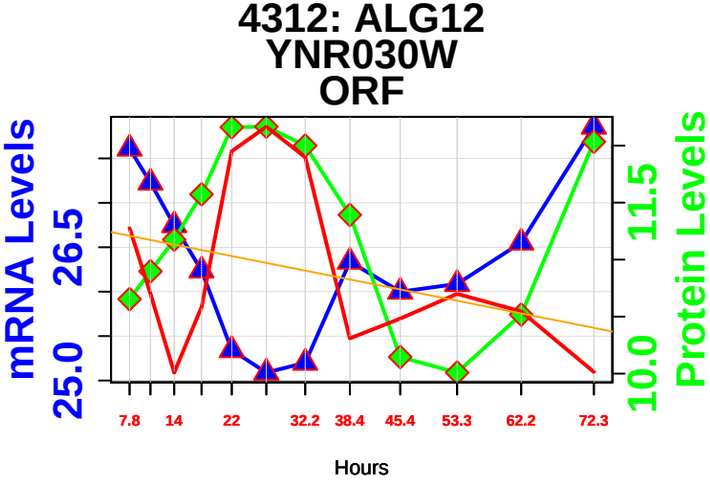

408: ALG7
YBR243C
ORF
mRNA Levels
30
32
34
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours


2012: ALG2
YGL065C
ORF
mRNA Levels
22
24
26
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

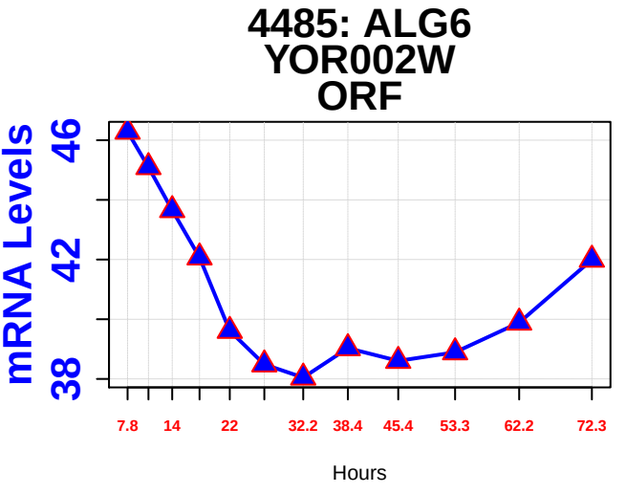

2265: DIE2
YGR227W
ORF
mRNA Levels
20
22
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

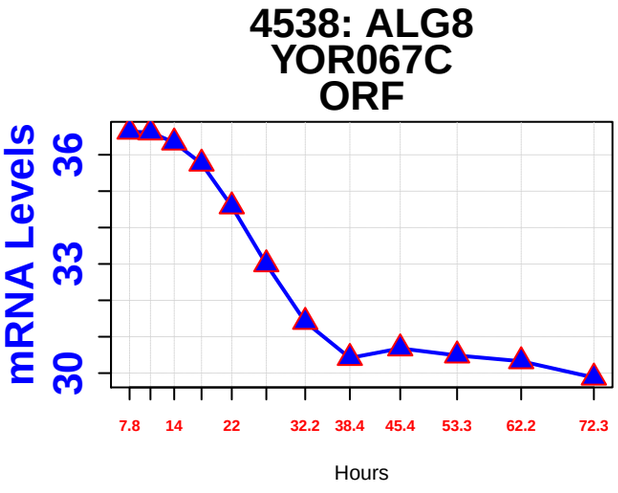

4106: ALG9
YNL219C
ORF
mRNA Levels
34.5
36.5
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours


4248: ALG11
YNL048W
ORF
mRNA Levels
29.5
31.0
4.0
5.0
Protein Levels
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

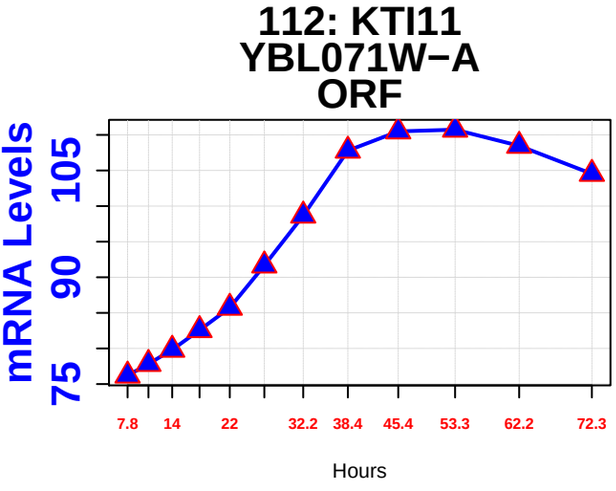

4312: ALG12
YNR030W
ORF
mRNA Levels
25.0
26.5
10.0
11.5
Protein Levels
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

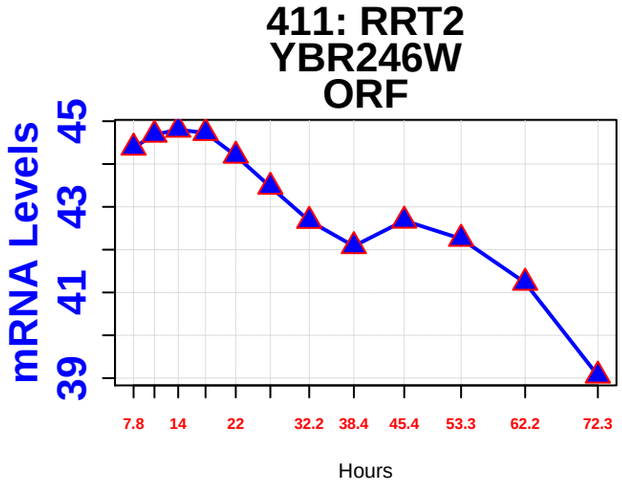
lipid−linked oligosaccharide biosynthesis

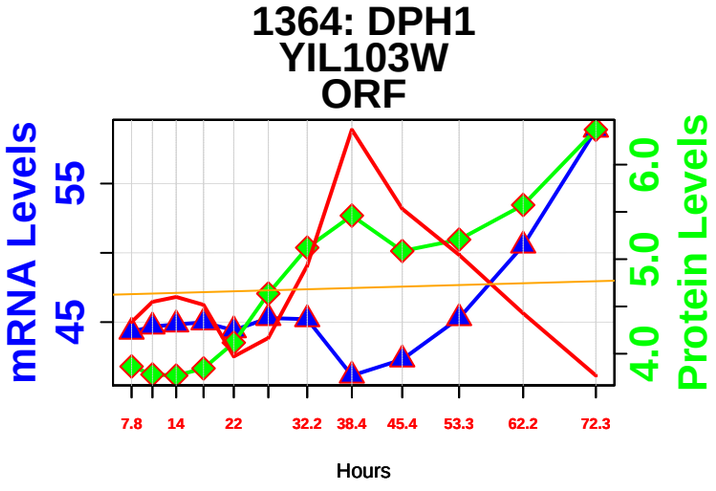


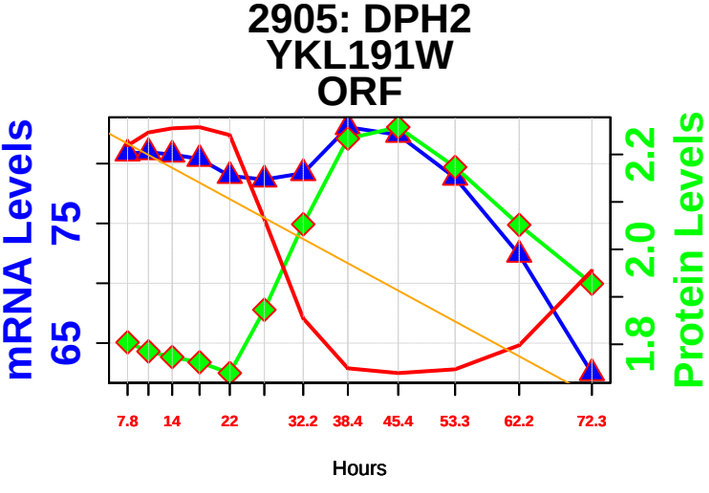


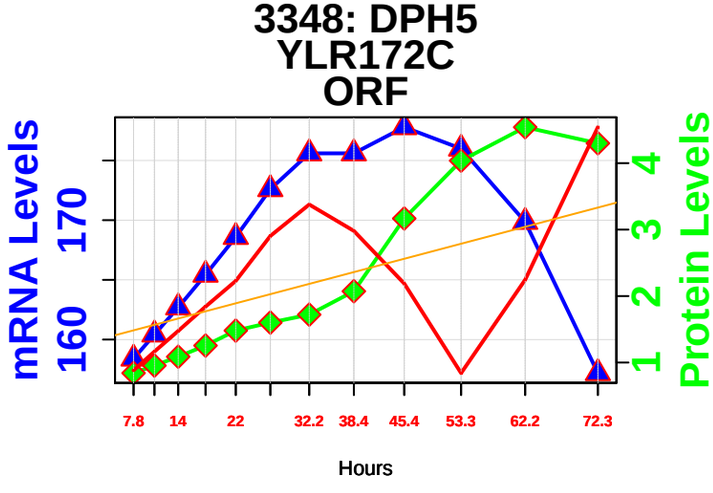
diphthamide biosynthesis

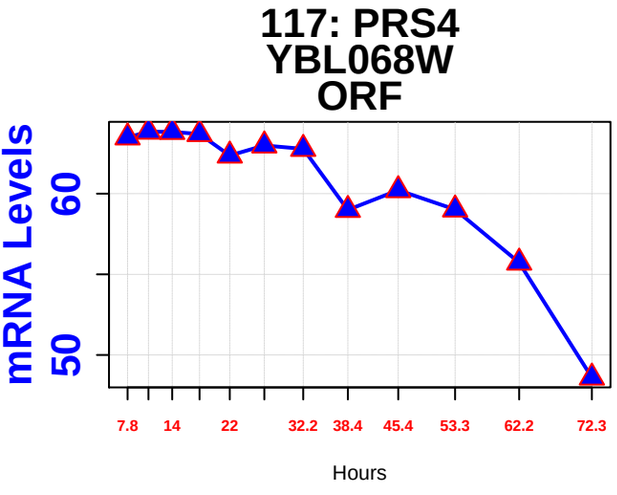


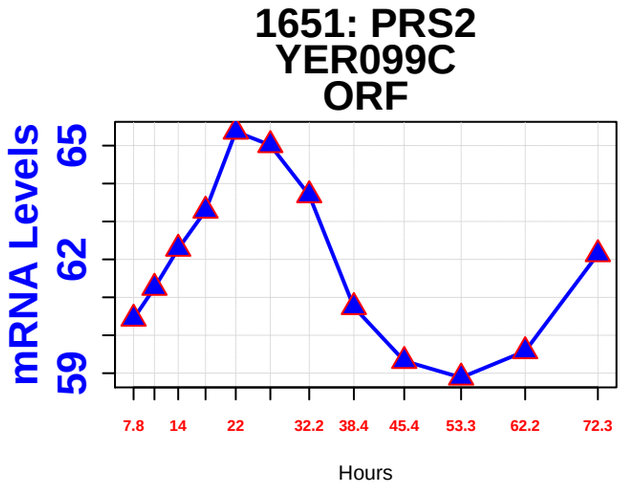


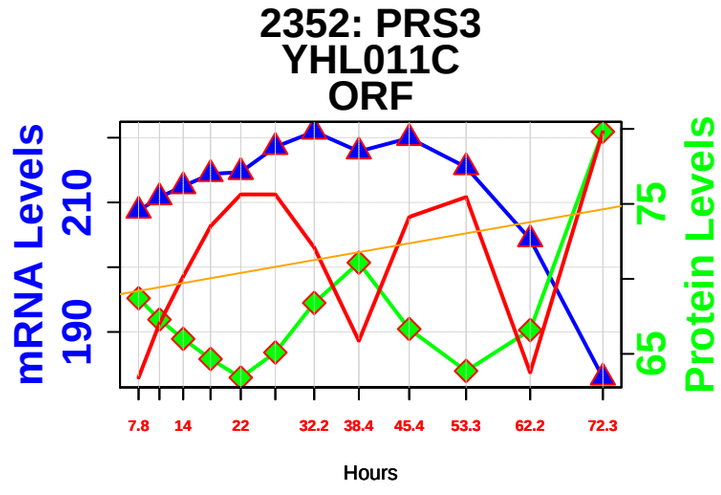


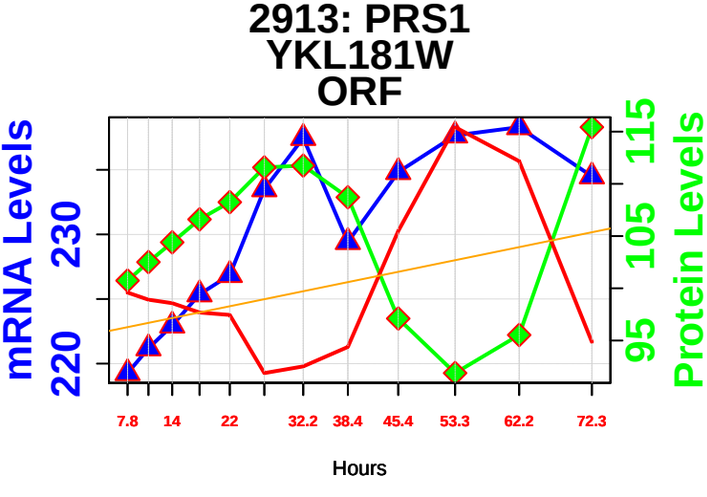


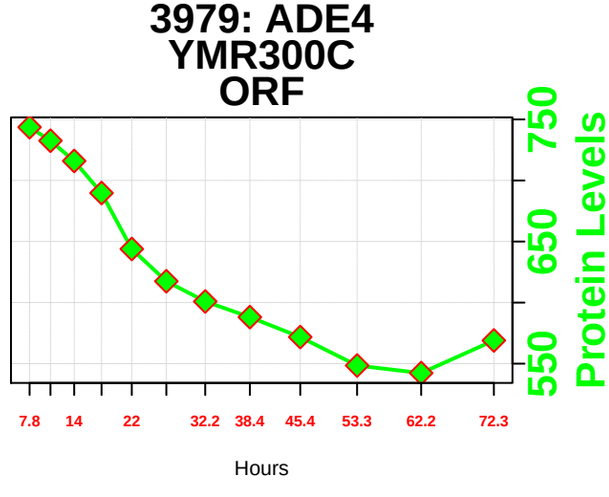


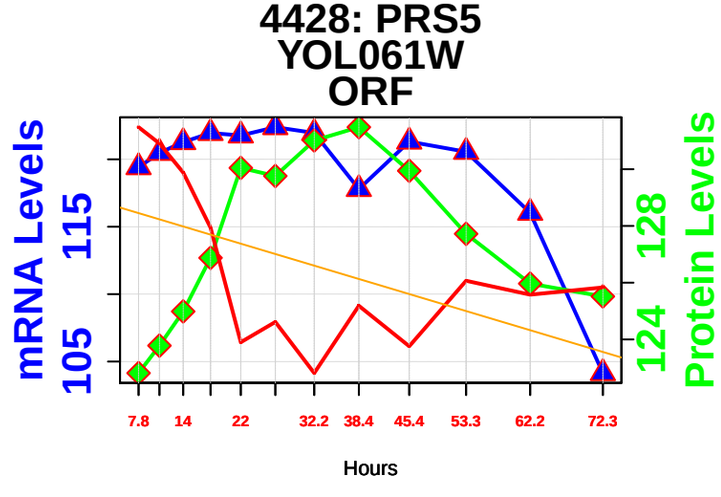

117: PRS4
YBL068W
ORF
mRNA Levels
50
60
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

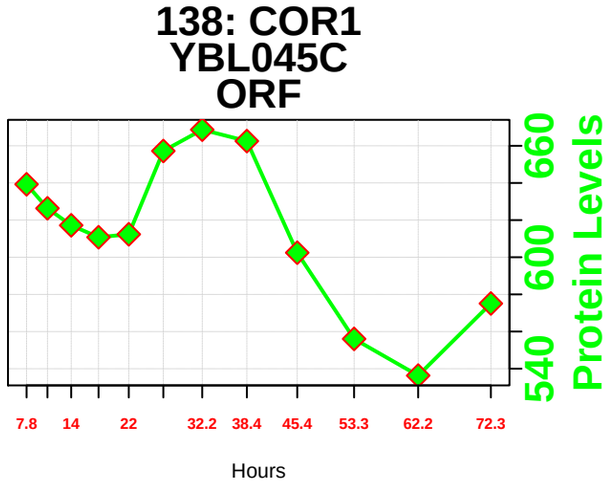

1651: PRS2
YER099C
ORF
mRNA Levels
59
62
65
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

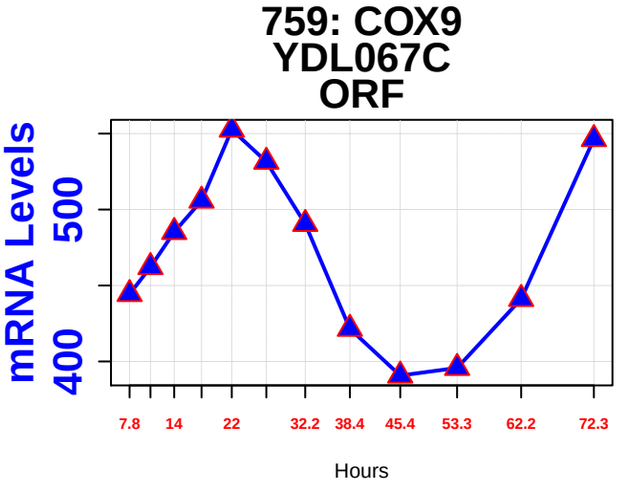

2352: PRS3
YHL011C
ORF
mRNA Levels
190
210
Protein Levels
65
75
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

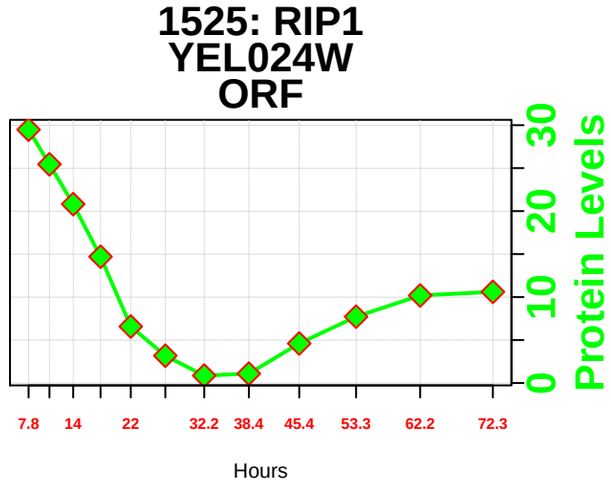

2913: PRS1
YKL181W
ORF
mRNA Levels
220
230
Protein Levels
95
105
115
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

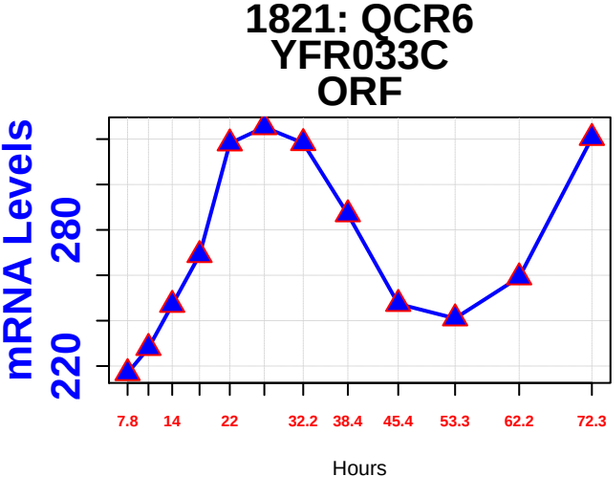

3979: ADE4
YMR300C
ORF
Protein Levels
550
650
750
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

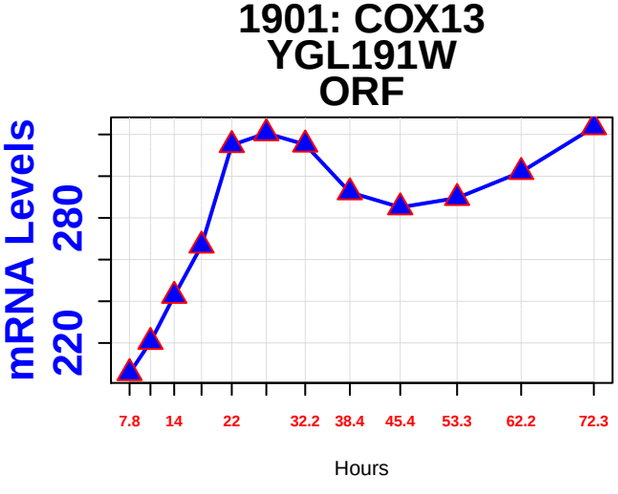

4428: PRS5
YOL061W
ORF
mRNA Levels
105
115
Protein Levels
124
128
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

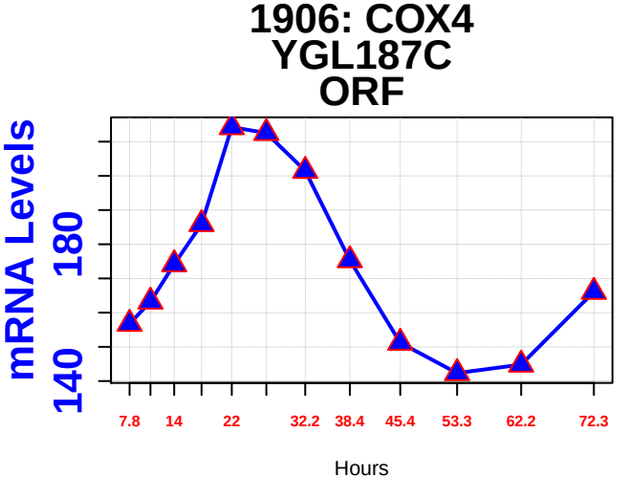

138: COR1
YBL045C
ORF
Protein Levels
540
600
660
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

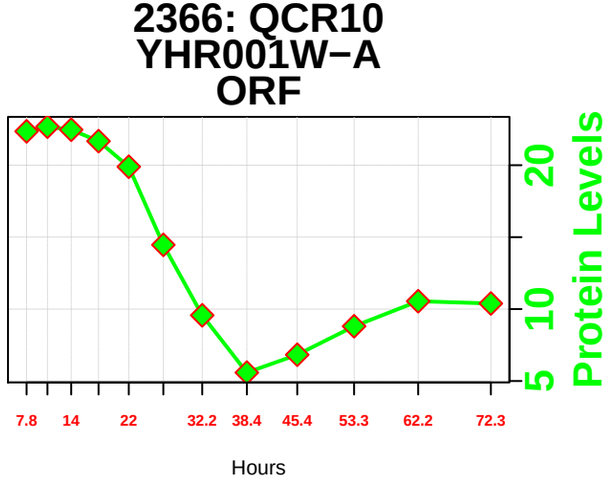

759: COX9
YDL067C
ORF
mRNA Levels
400
500
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

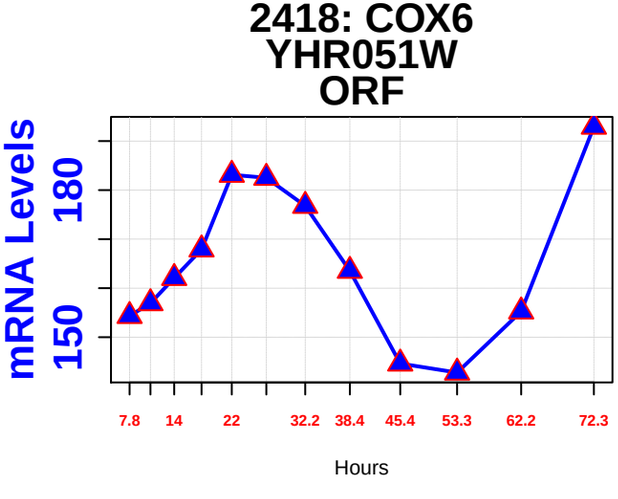

1525: RIP1
YEL024W
ORF
Protein Levels
0
10
20
30
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

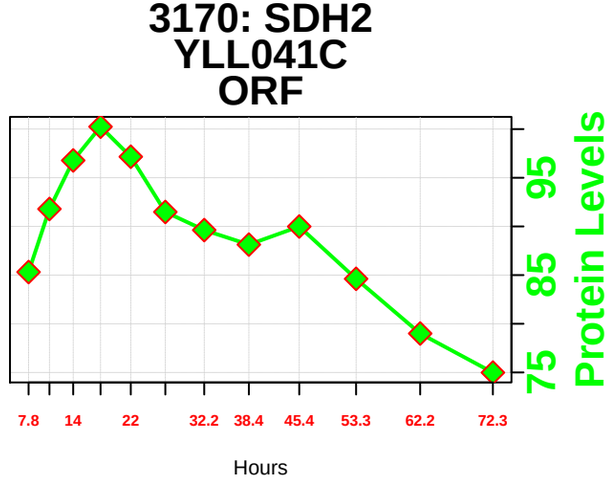

1821: QCR6
YFR033C
ORF
mRNA Levels
220
280
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours


1901: COX13
YGL191W
ORF
mRNA Levels
220
280
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

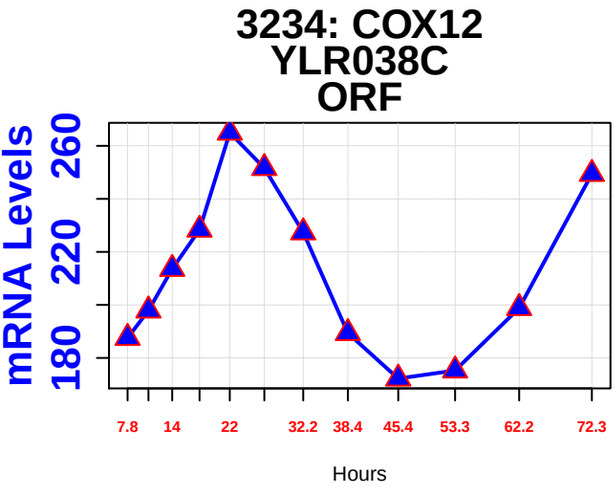

1906: COX4
YGL187C
ORF
mRNA Levels
140
180
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

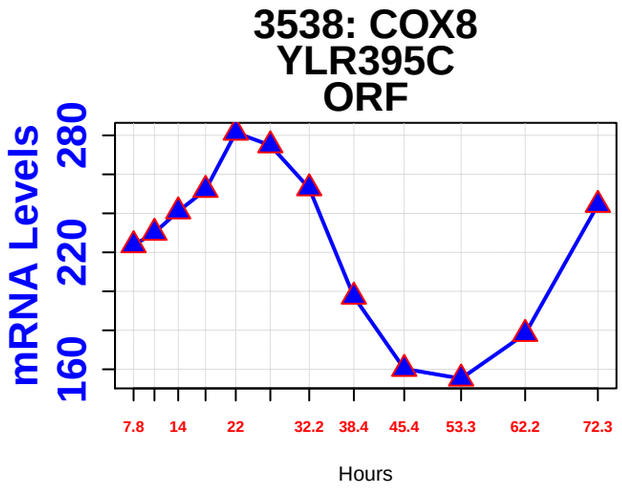

2366: QCR10
YHR001W-A
ORF
Protein Levels
5
10
20
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

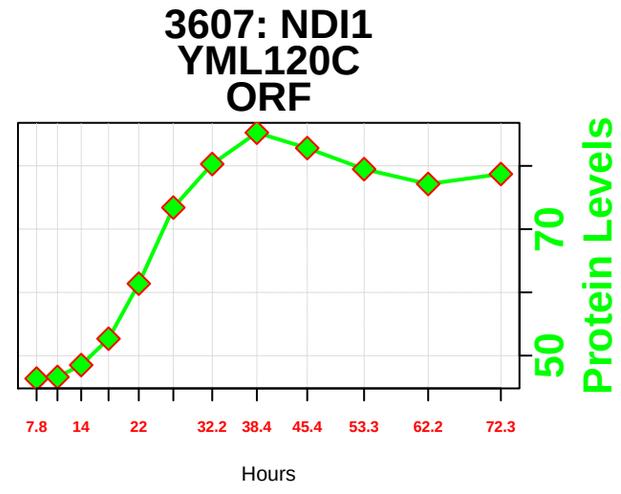

2418: COX6
YHR051W
ORF
mRNA Levels
150
180
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

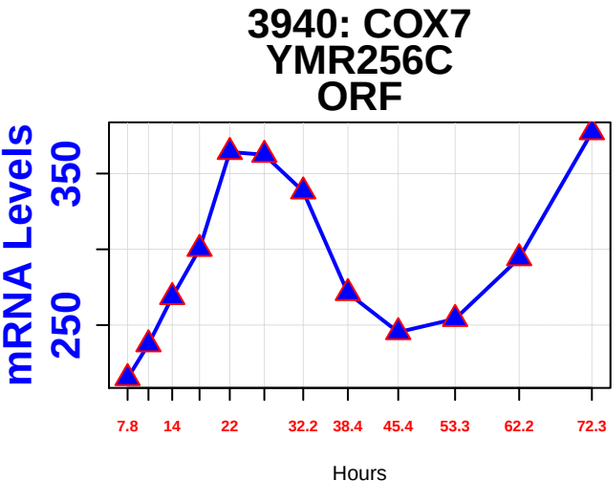

3170: SDH2
YLL041C
ORF
Protein Levels
75
85
95
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

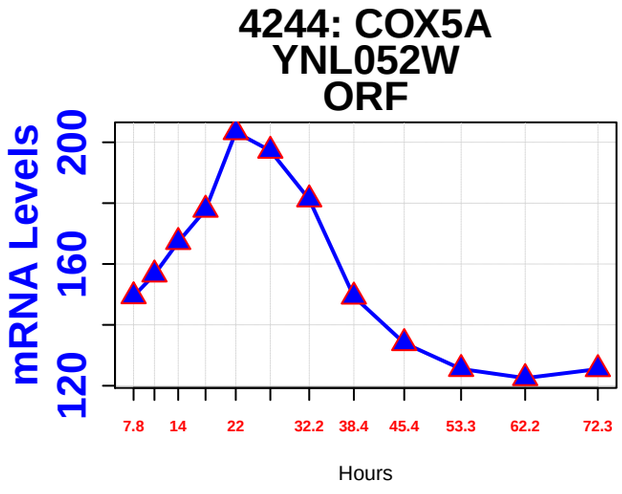
aerobic respiration, electron transport chain

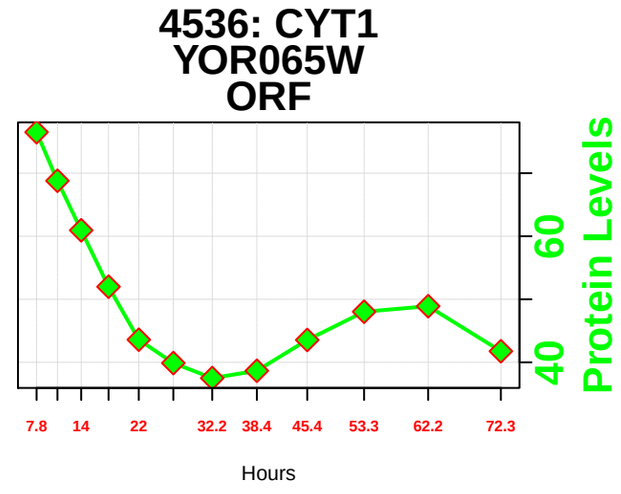


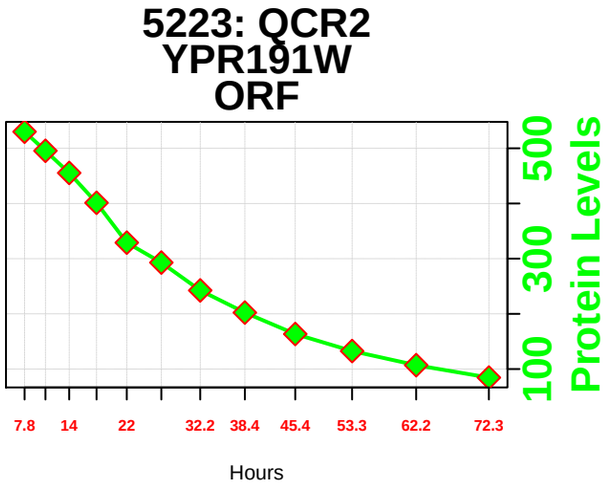


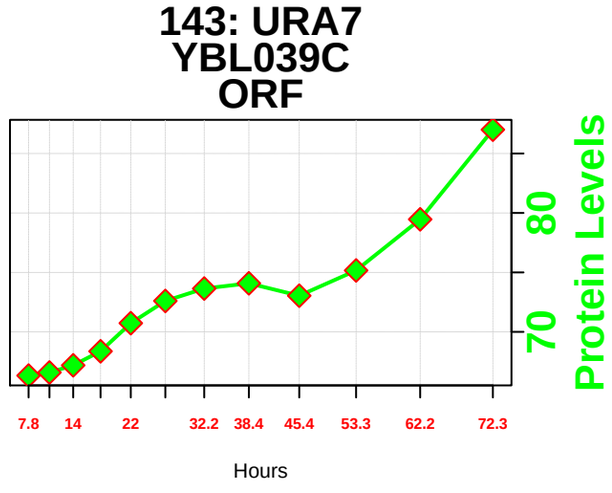


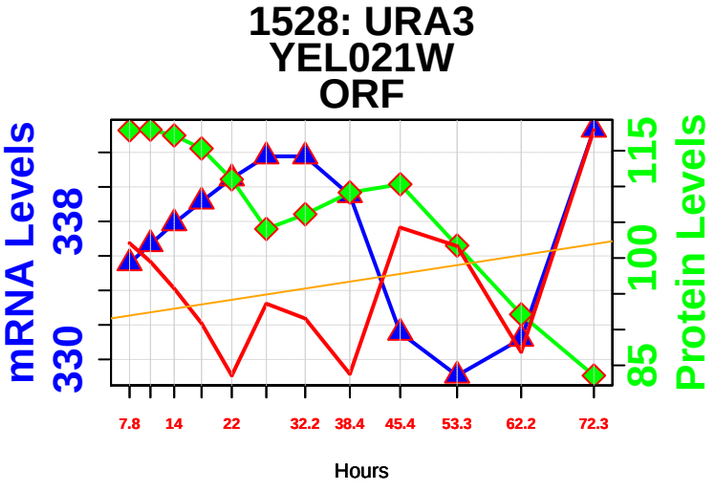


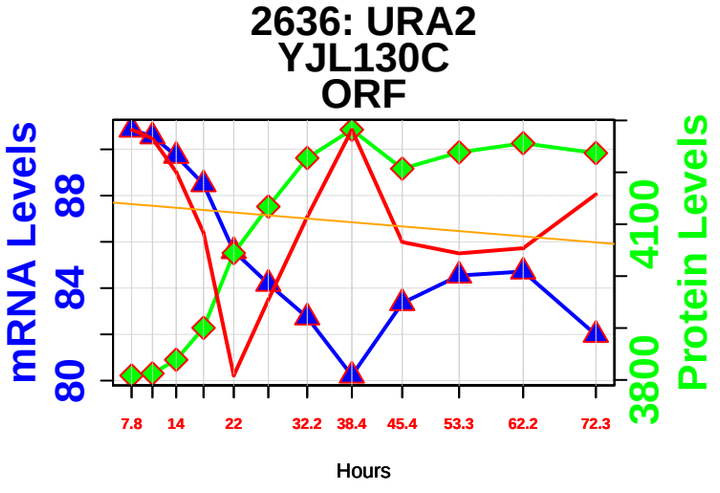


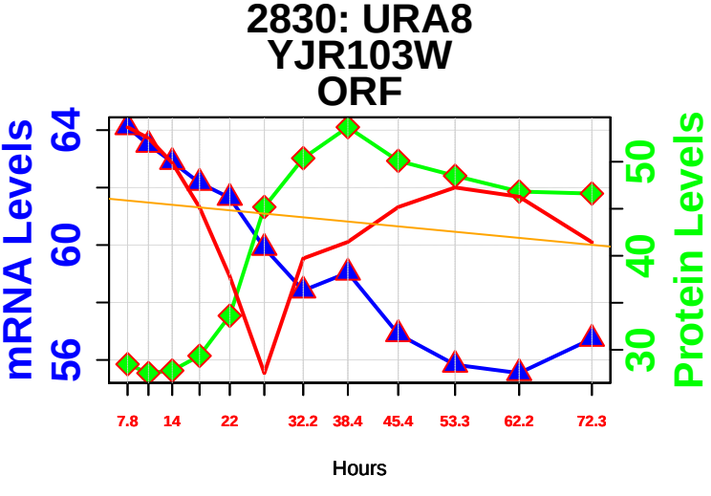


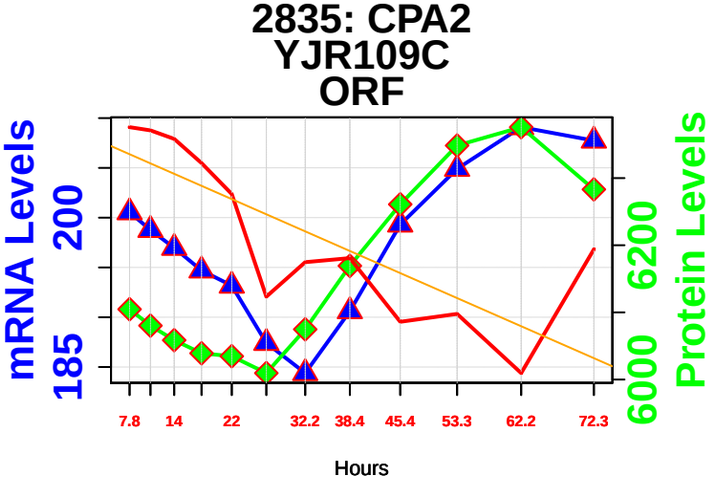


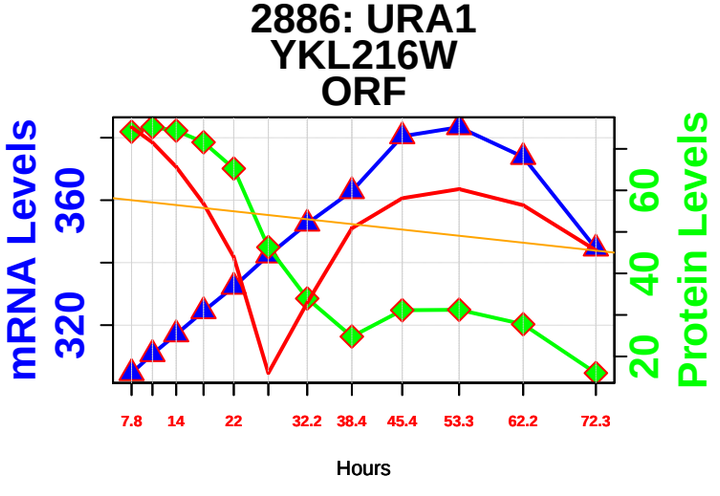

143: URA7
YBL039C
ORF
Protein Levels
70
80
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

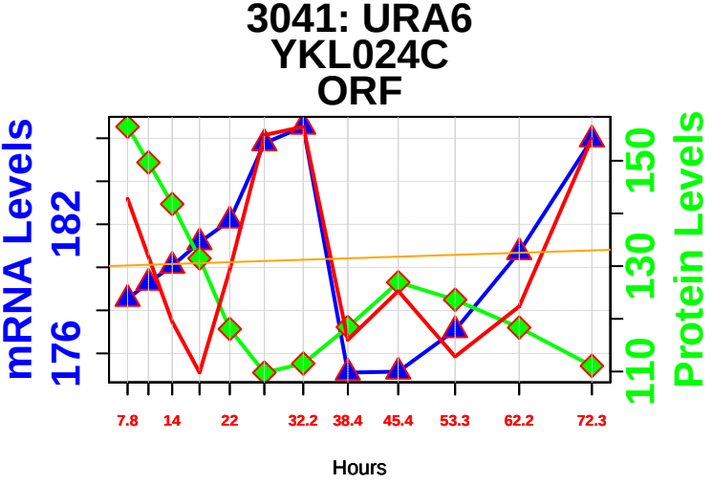

1528: URA3
YEL021W
ORF
mRNA Levels
330
338
Protein Levels
85
100
115
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

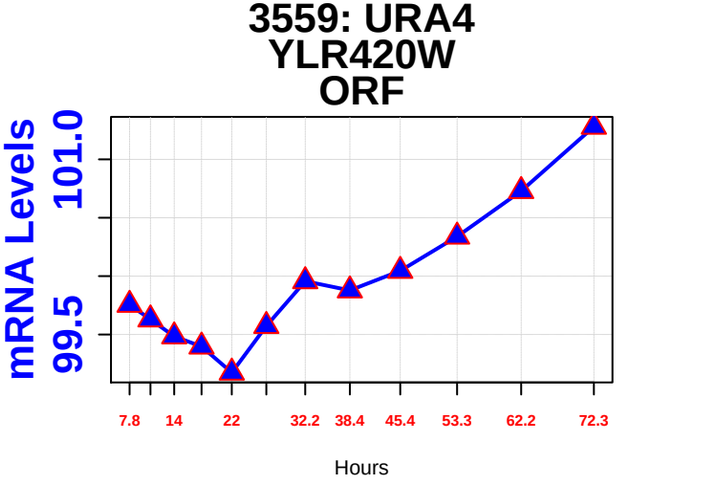

2636: URA2
YJL130C
ORF
mRNA Levels
80
84
88
Protein Levels
3800
4100
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

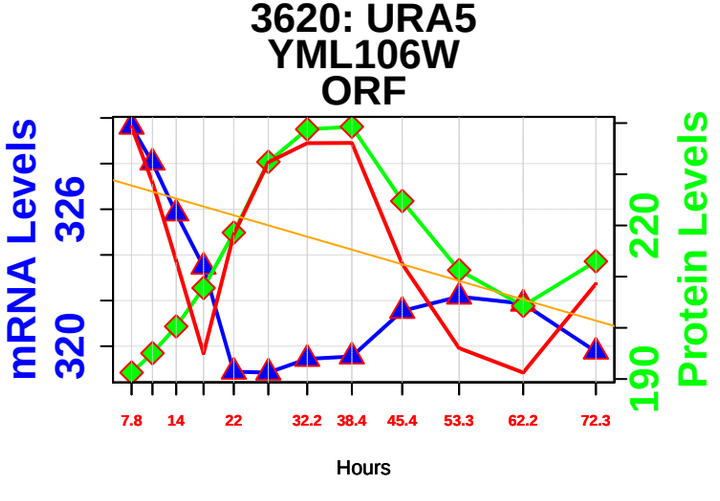

2830: URA8
YJR103W
ORF
mRNA Levels
56
60
64
Protein Levels
30
40
50
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours


2835: CPA2
YJR109C
ORF
mRNA Levels
185
200
Protein Levels
6000
6200
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

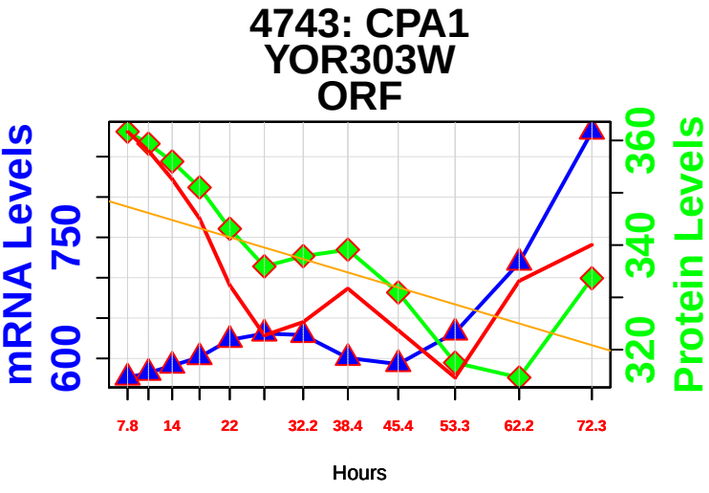

2886: URA1
YKL216W
ORF
mRNA Levels
320
360
Protein Levels
20
40
60
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

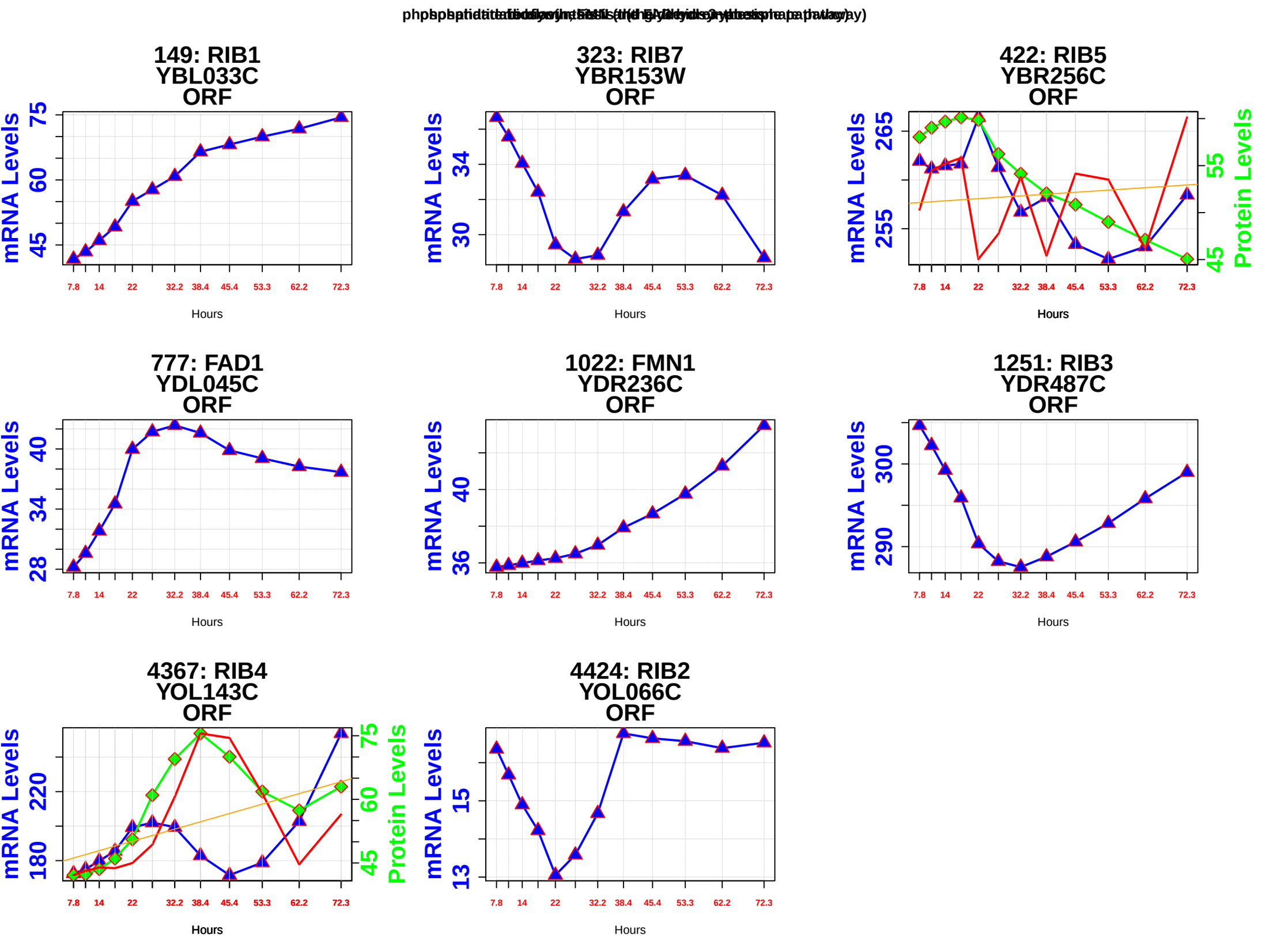

3041: URA6
YKL024C
ORF
mRNA Levels
176
182
Protein Levels
110
130
150
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours


3559: URA4
YLR420W
ORF
mRNA Levels
99.5
101.0
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

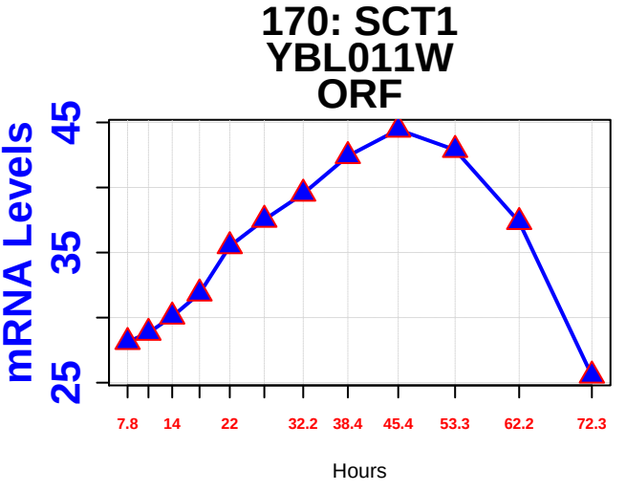

3620: URA5
YML106W
ORF
mRNA Levels
320
326
Protein Levels
190
220
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

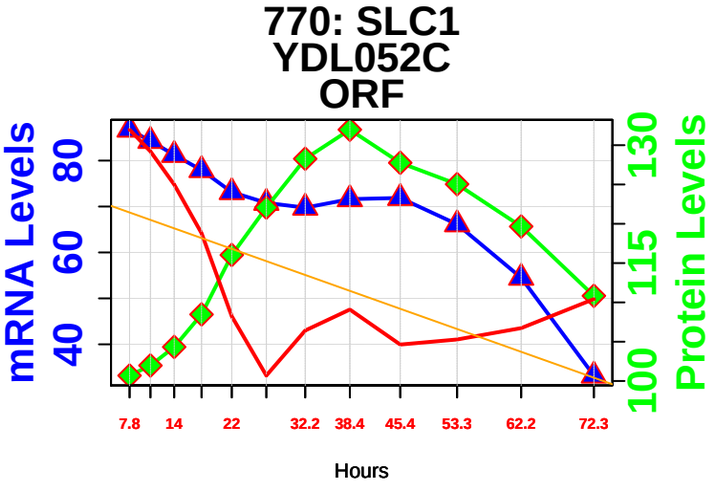
de novo biosynthesis of pyrimidine ribonucleotides

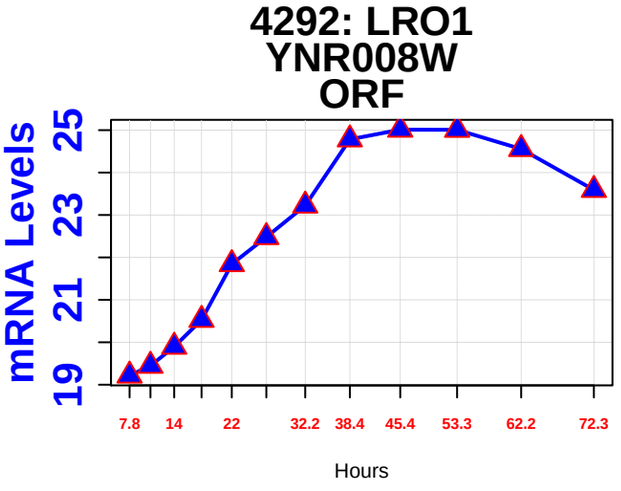


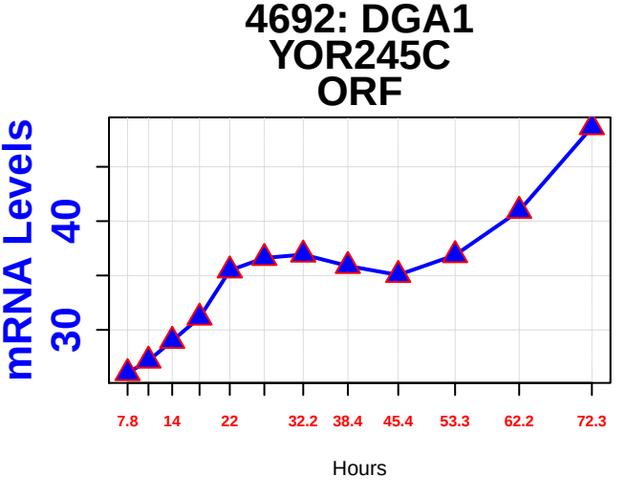

149: RIB1
YBL033C
ORF
323: RIB7
YBR153W
ORF
422: RIB5
YBR256C
ORF
777: FAD1
YDL045C
ORF
1022: FMN1
YDR236C
ORF
1251: RIB3
YDR487C
ORF
4367: RIB4
YOL143C
ORF
4424: RIB2
YOL066C
ORF
mRNA Levels
Protein Levels
Hours
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3

triglyceride biosynthesis

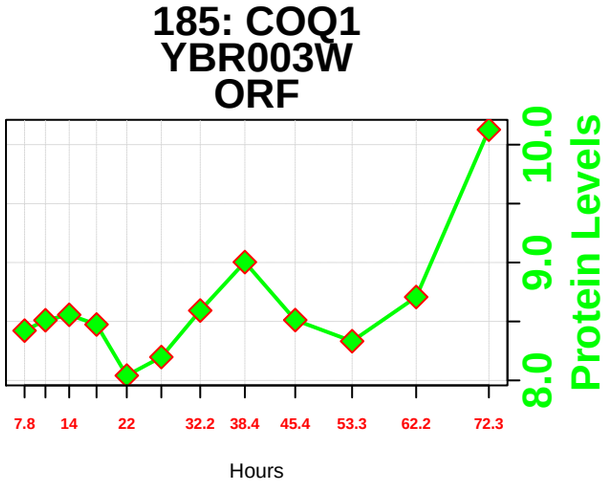


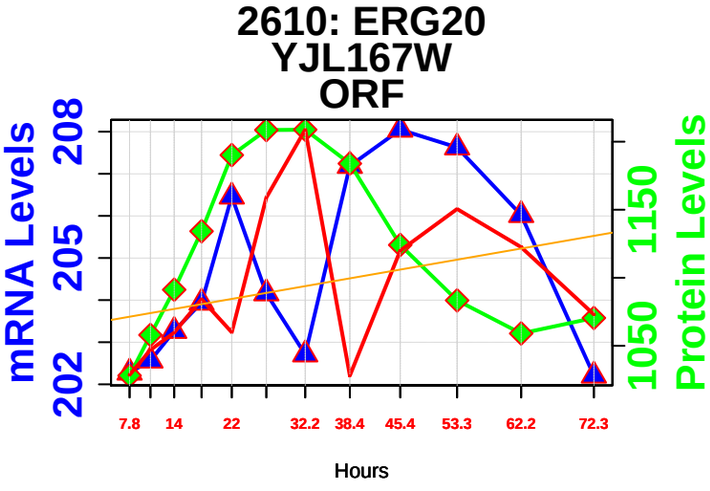


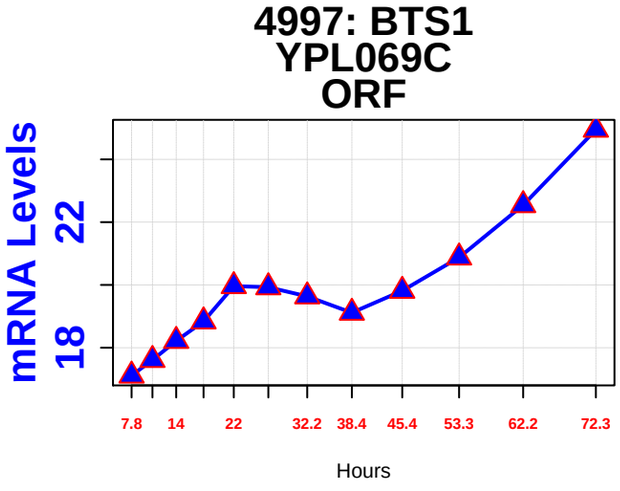




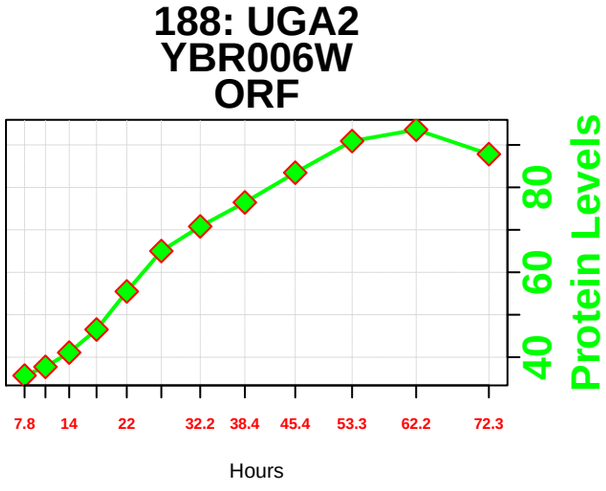
hexaprenyl diphosphate biosynthesis

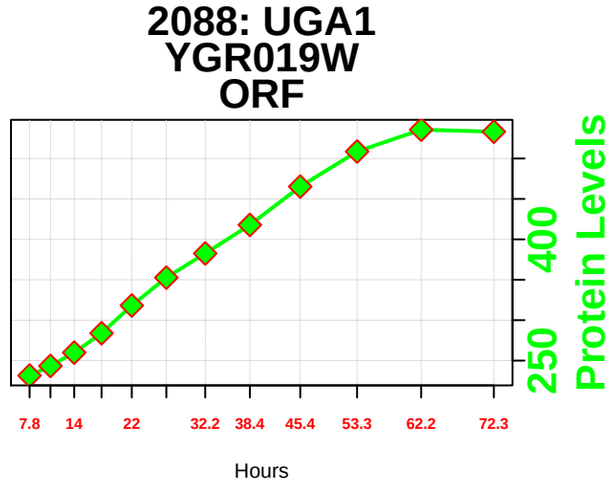




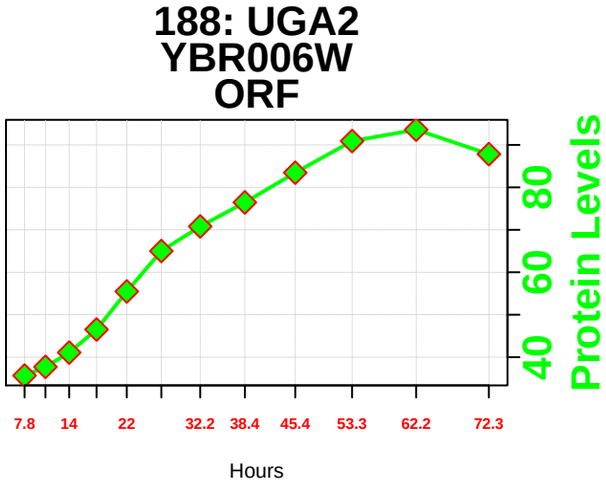


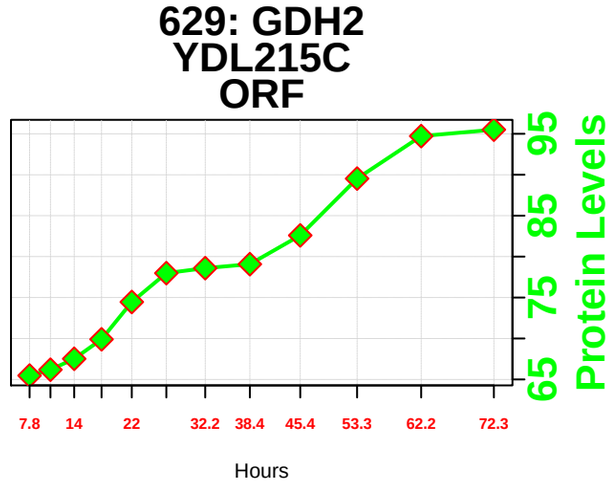
4−aminobutyrate degradation

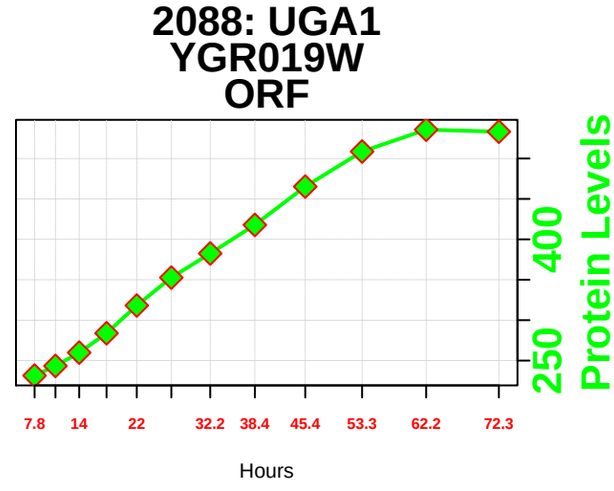


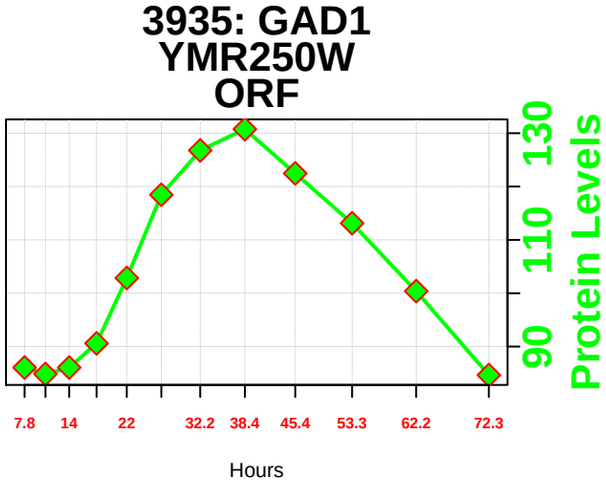


glutamate degradation I

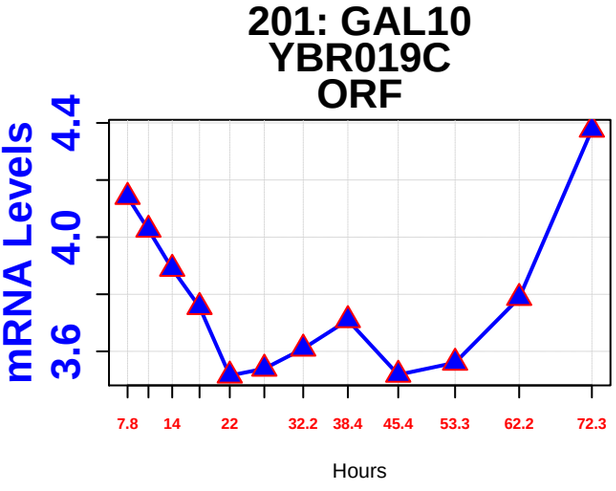


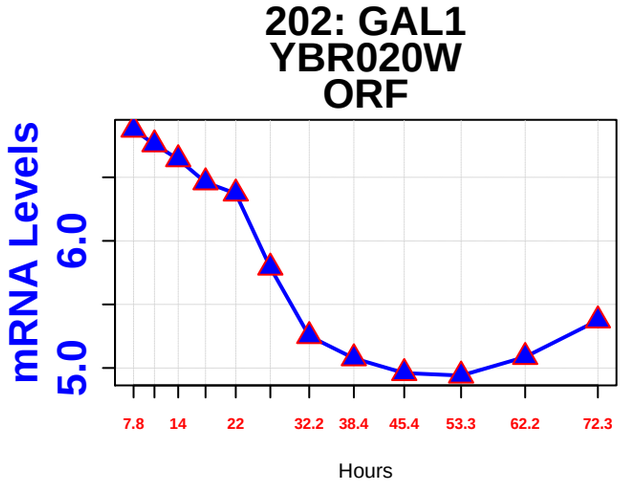


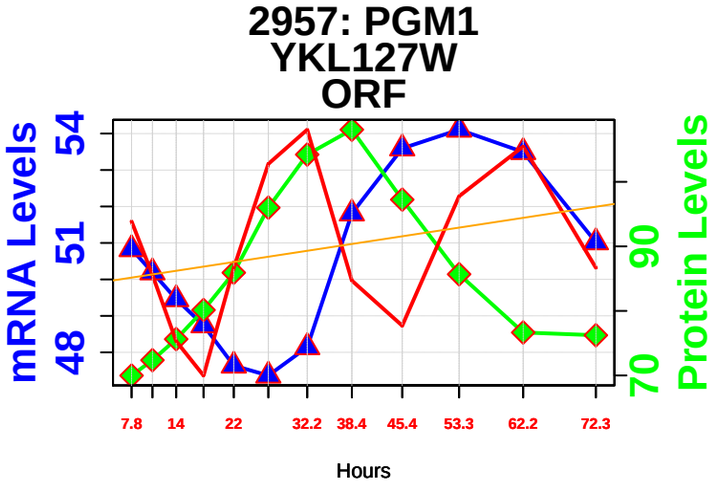


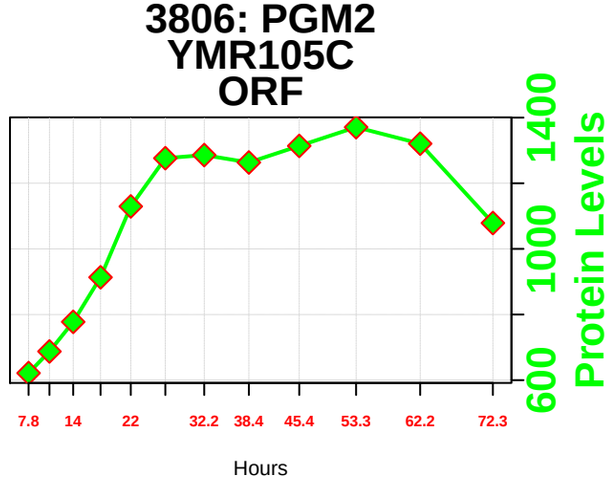


galactose degradation

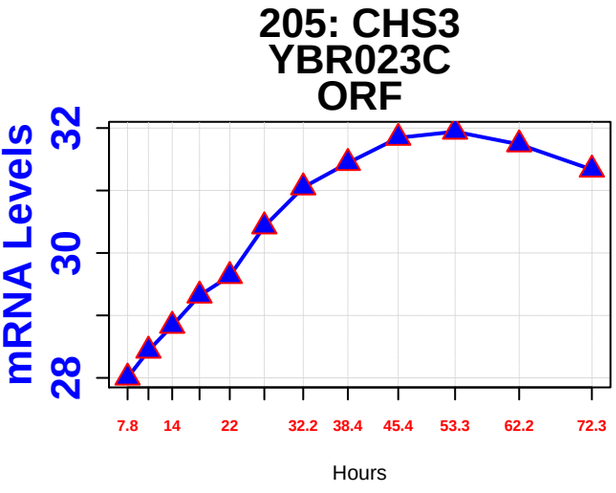


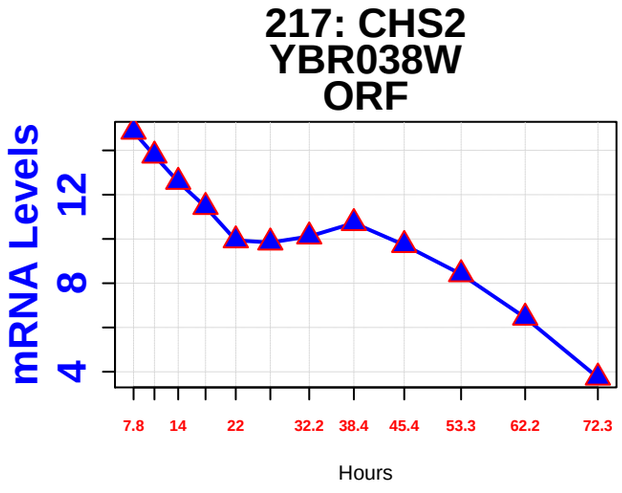


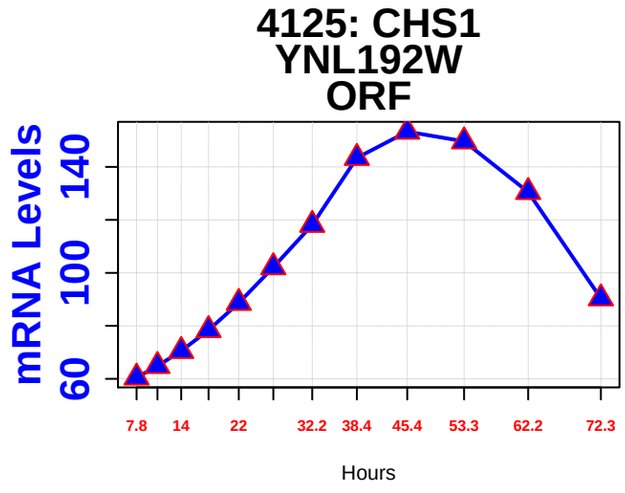


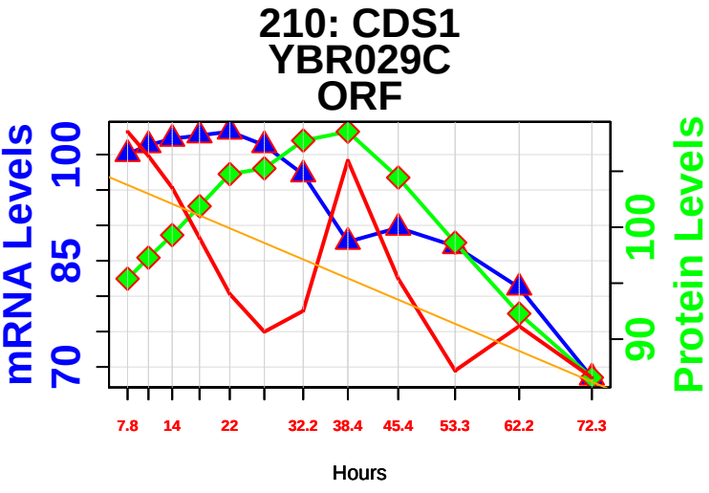


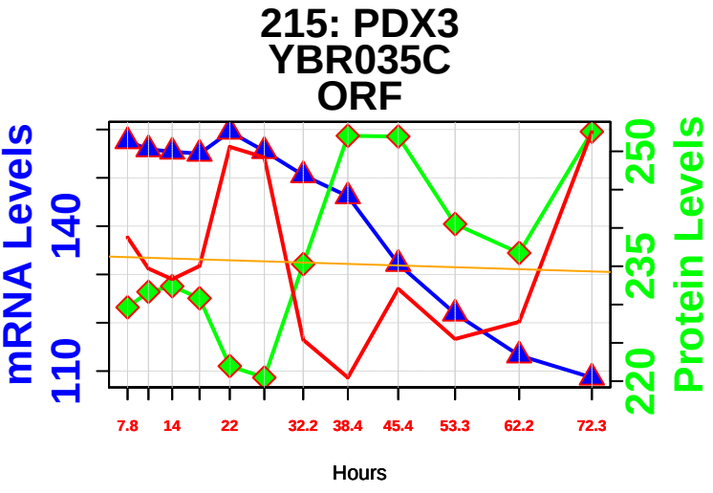
chitin biosynthesis

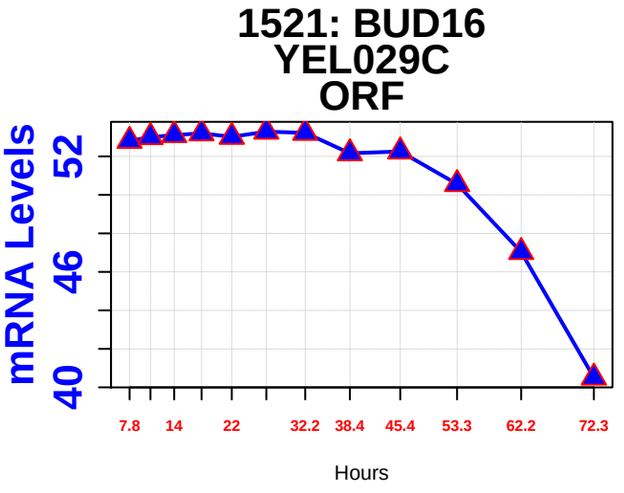


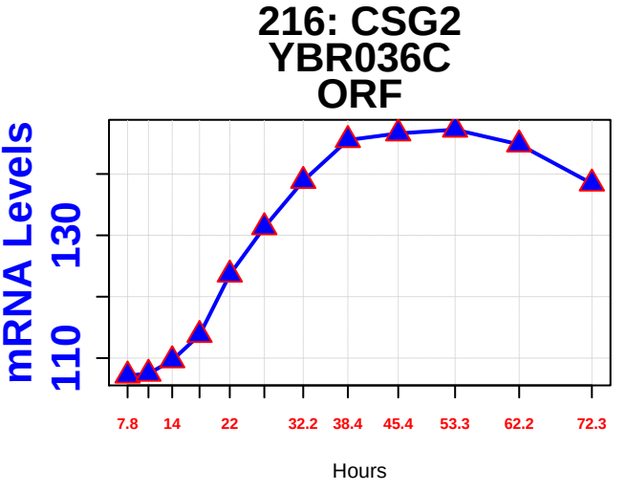


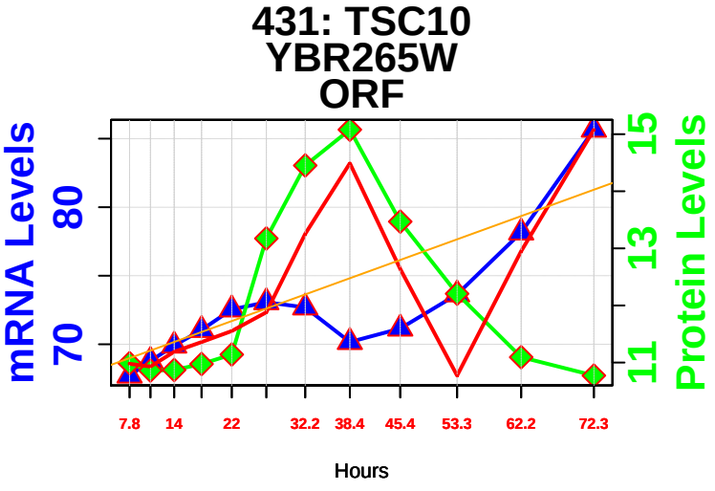


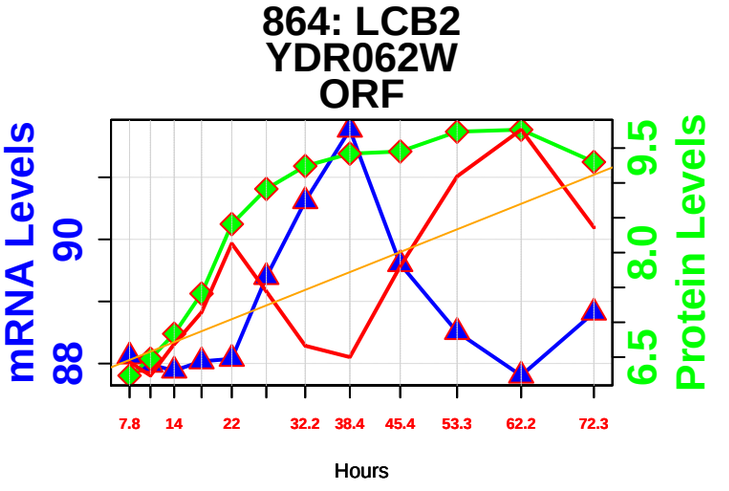

210: CDS1
YBR029C
ORF
mRNA Levels
70
85
100
Protein Levels
90
100
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

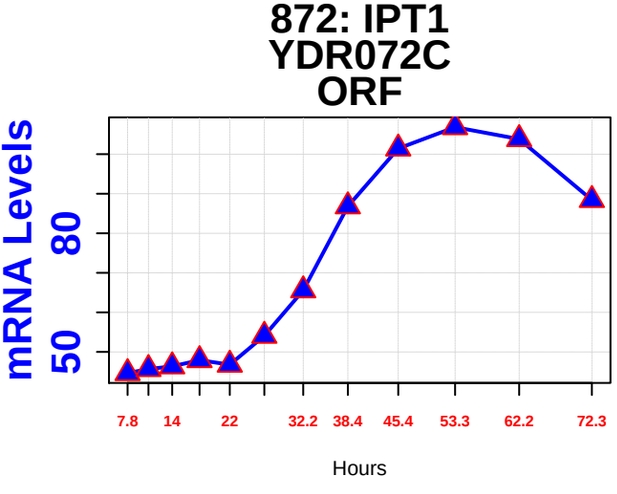

215: PDX3
YBR035C
ORF
mRNA Levels
140
110
Protein Levels
250
235
220
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

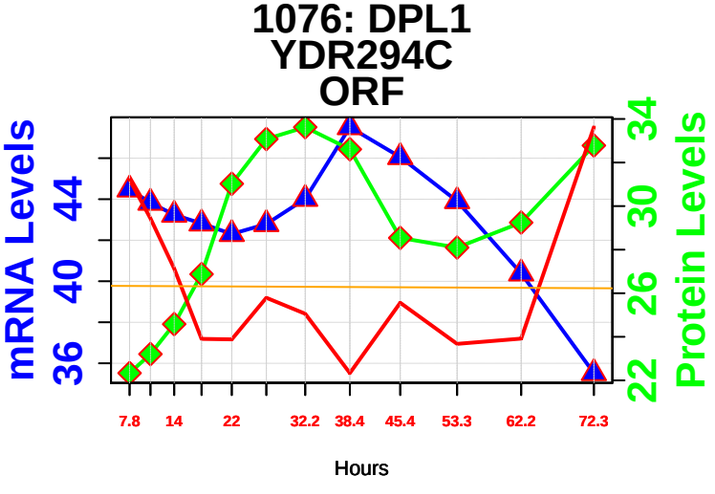

1521: BUD16
YEL029C
ORF
mRNA Levels
52
46
40
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

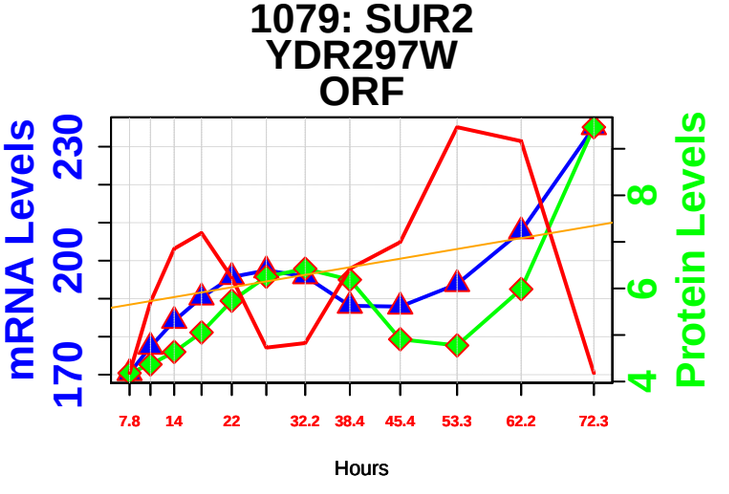

216: CSG2
YBR036C
ORF
mRNA Levels
110
130
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

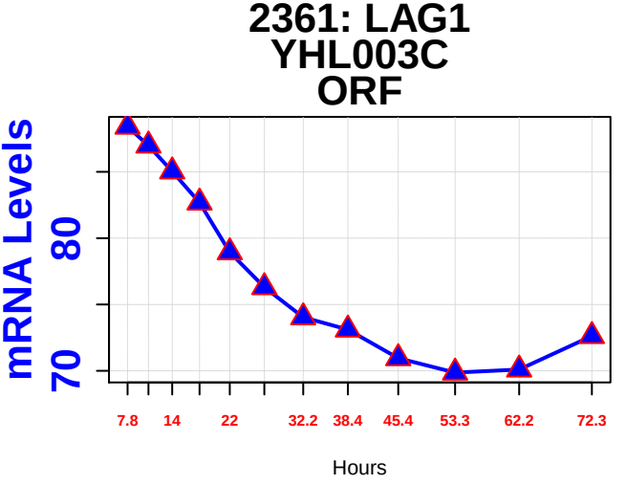

431: TSC10
YBR265W
ORF
mRNA Levels
70
80
Protein Levels
11
13
15
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

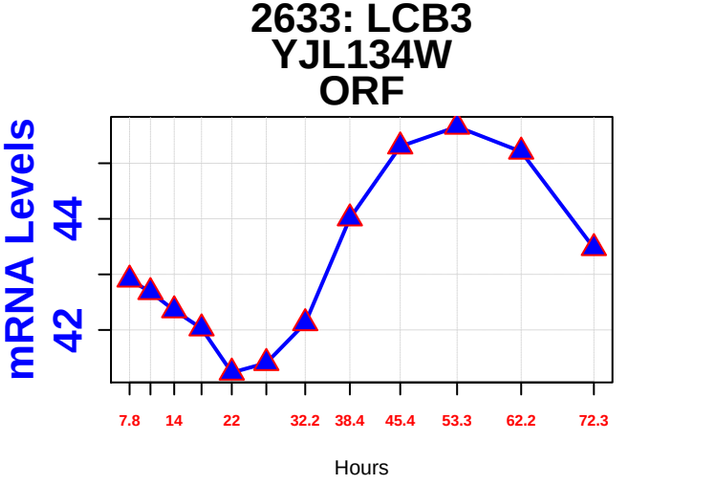

864: LCB2
YDR062W
ORF
mRNA Levels
88
90
Protein Levels
6.5
8.0
9.5
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

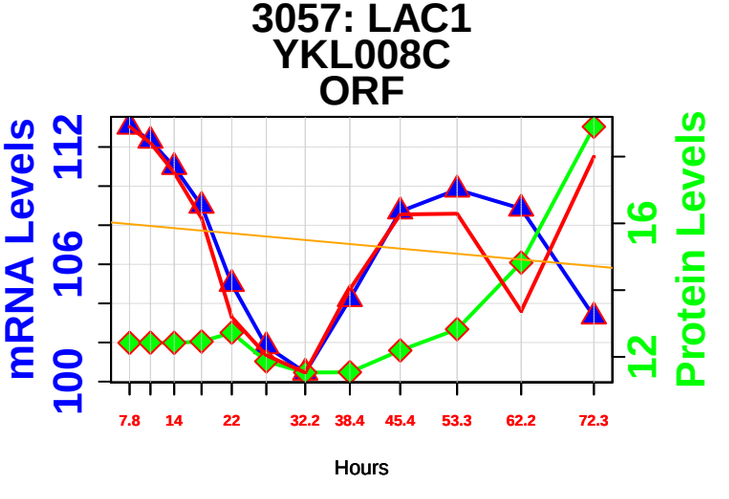

872: IPT1
YDR072C
ORF
mRNA Levels
50
80
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours


1076: DPL1
YDR294C
ORF
mRNA Levels
36
40
44
Protein Levels
22
26
30
34
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

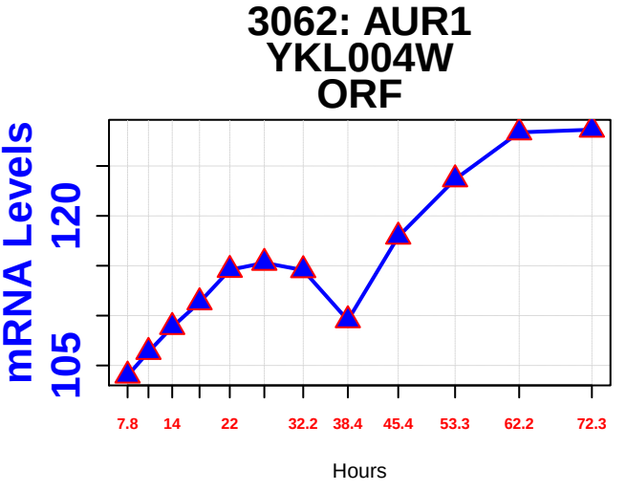

1079: SUR2
YDR297W
ORF
mRNA Levels
170
200
230
Protein Levels
4
6
8
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

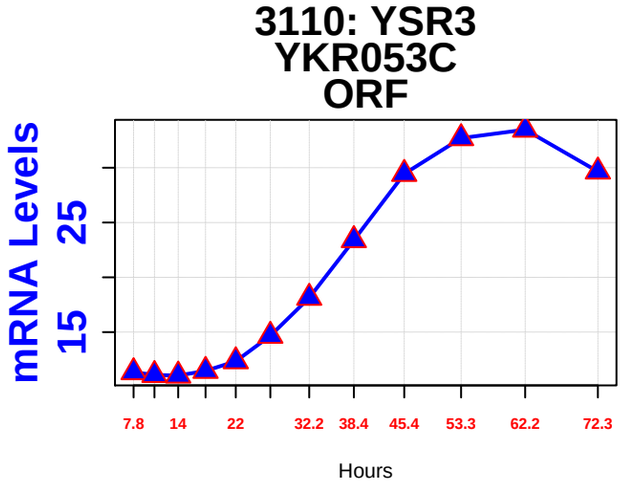

2361: LAG1
YHL003C
ORF
mRNA Levels
70
80
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

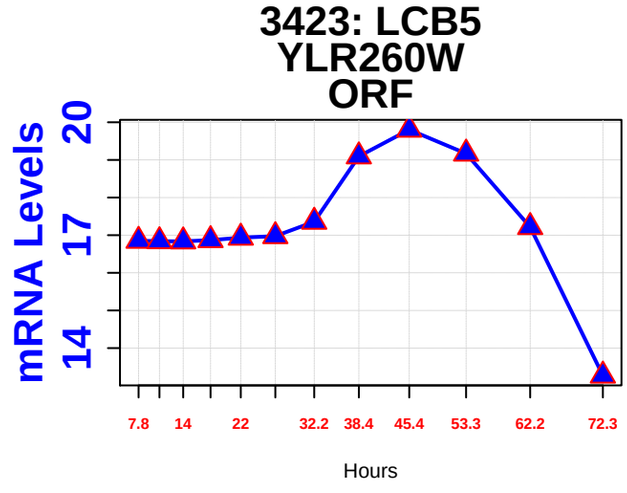

2633: LCB3
YJL134W
ORF
mRNA Levels
42
44
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

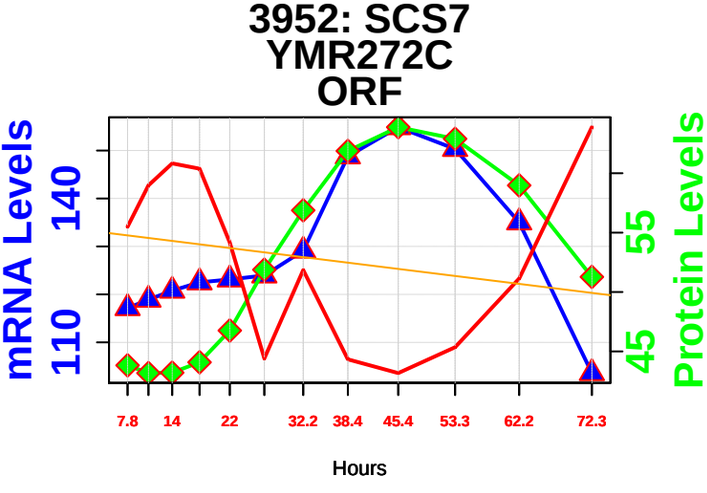

3057: LAC1
YKL008C
ORF
mRNA Levels
100
106
112
Protein Levels
12
16
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

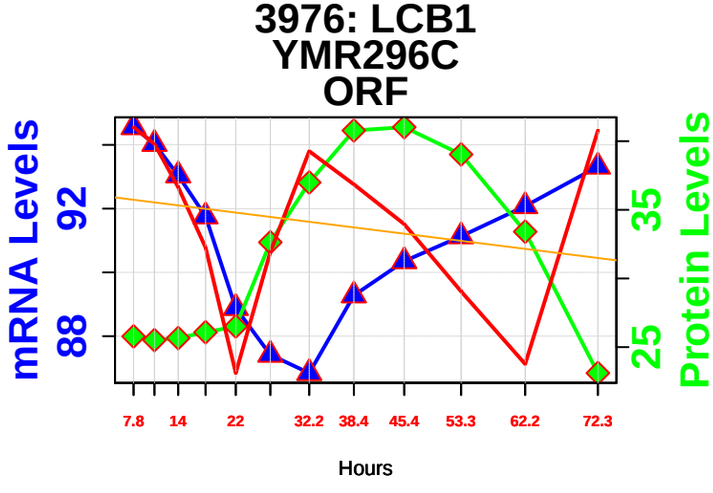
sphingolipid metabolism

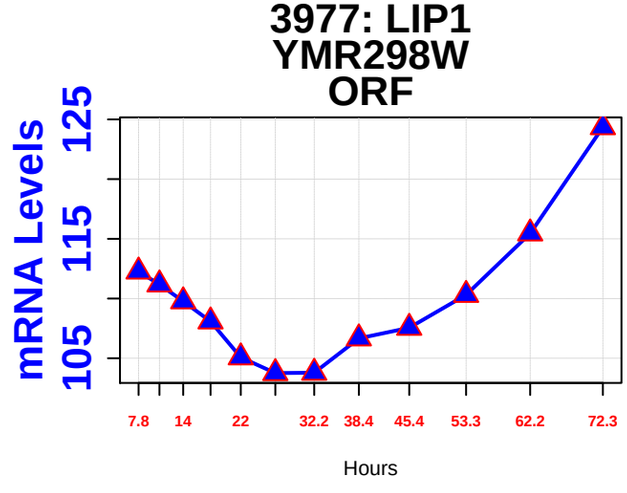


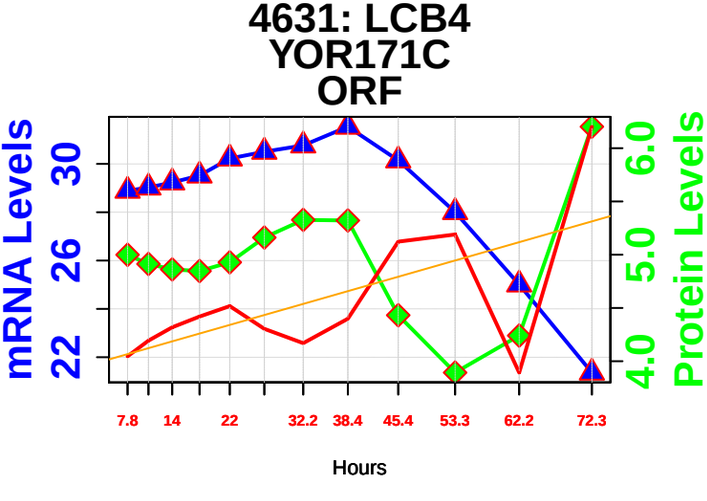




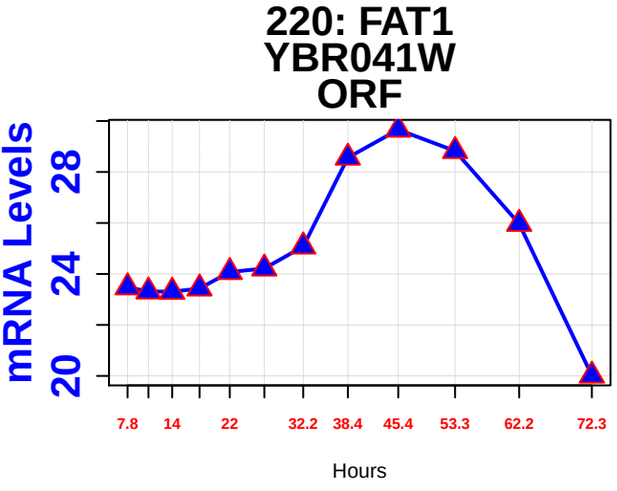


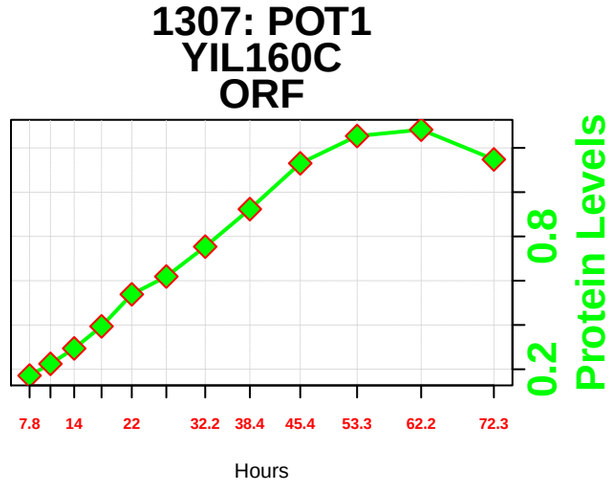


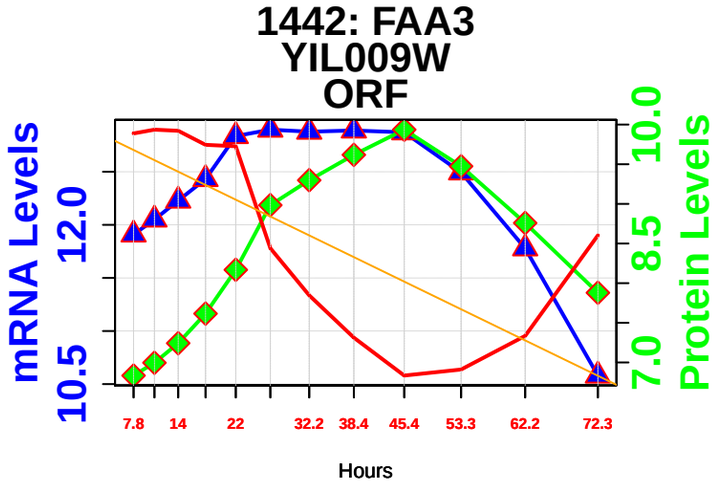


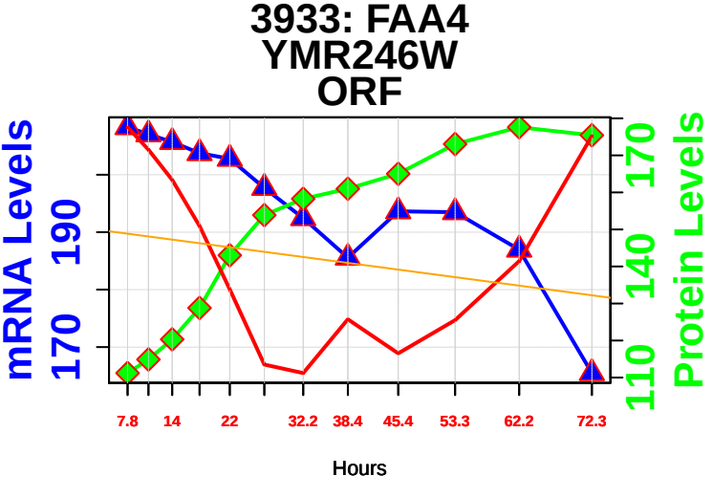


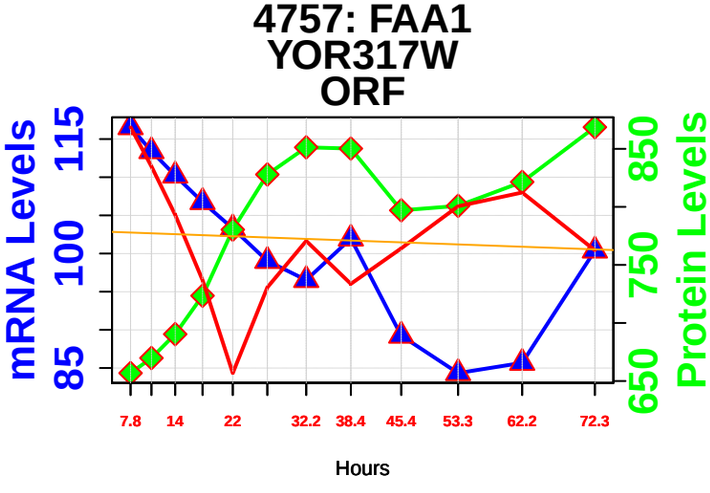
fatty acid oxidation pathway

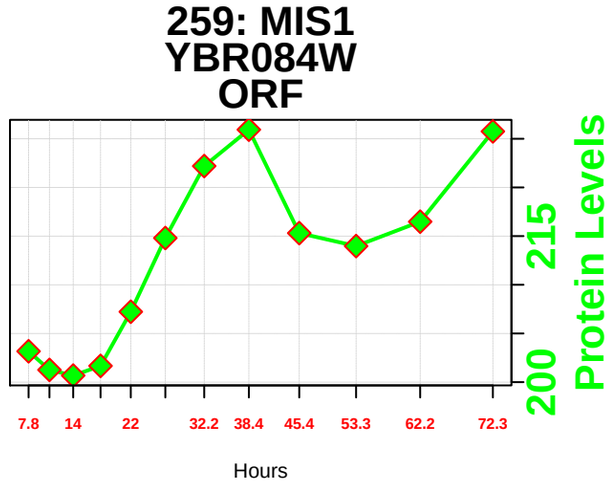


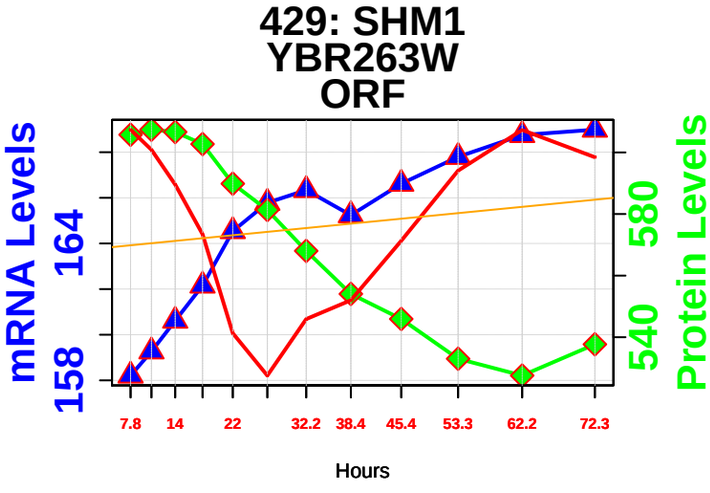


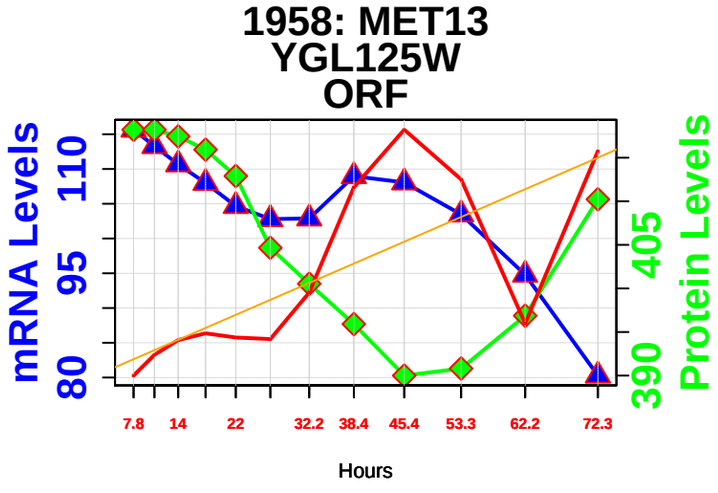


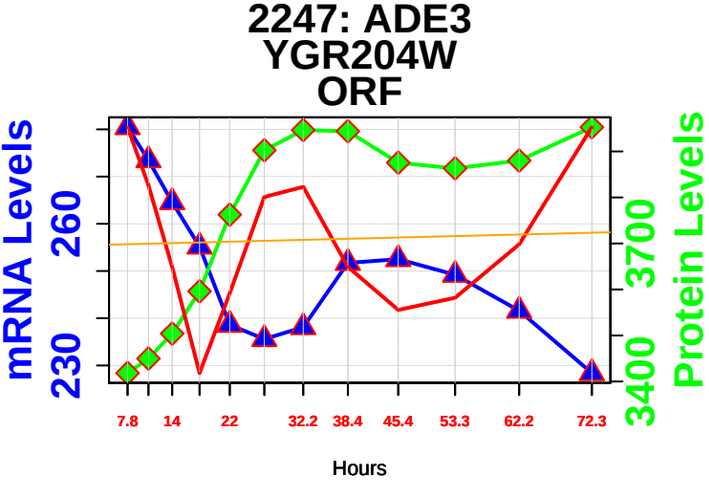


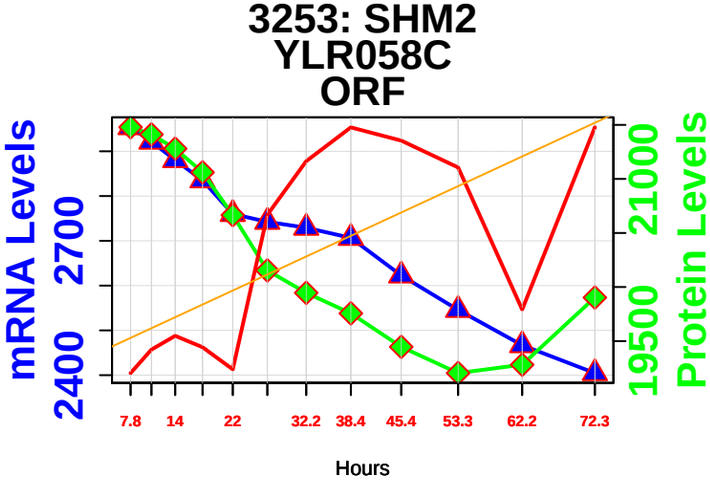


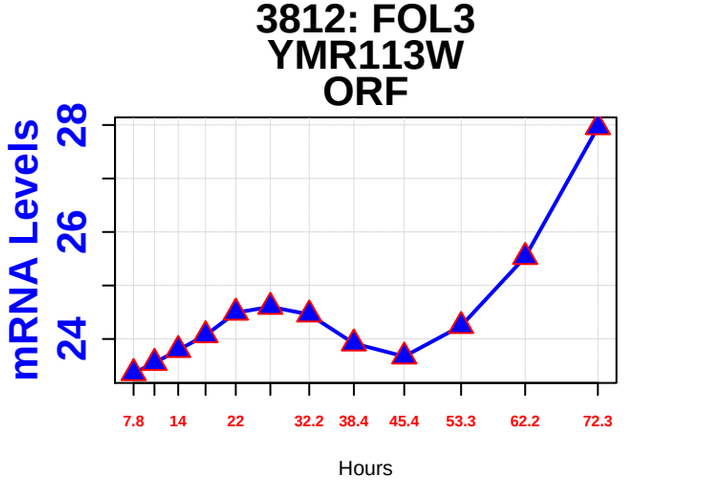

259: MIS1
YBR084W
ORF
Protein Levels
200
215
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

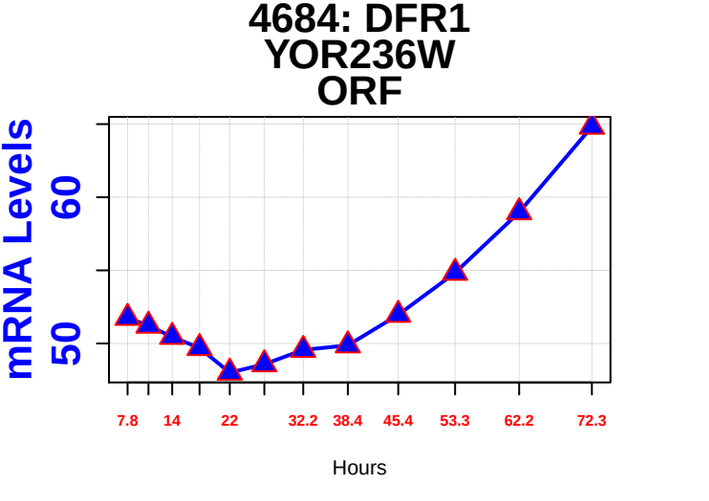

429: SHM1
YBR263W
ORF
mRNA Levels
158
164
Protein Levels
540
580
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

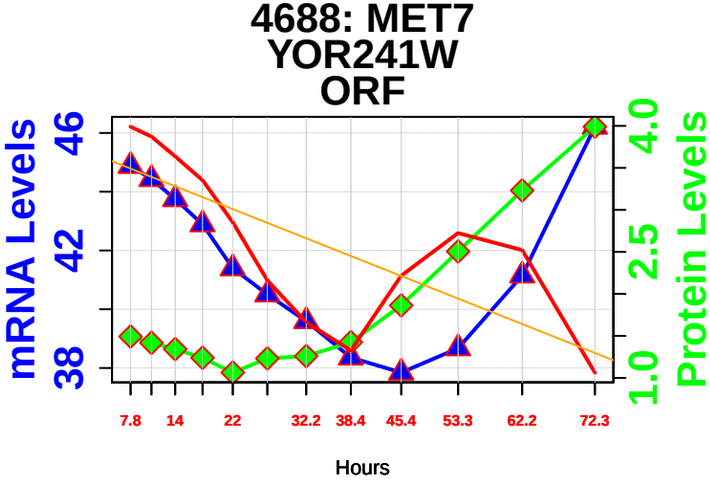

1958: MET13
YGL125W
ORF
mRNA Levels
80
95
110
Protein Levels
390
405
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

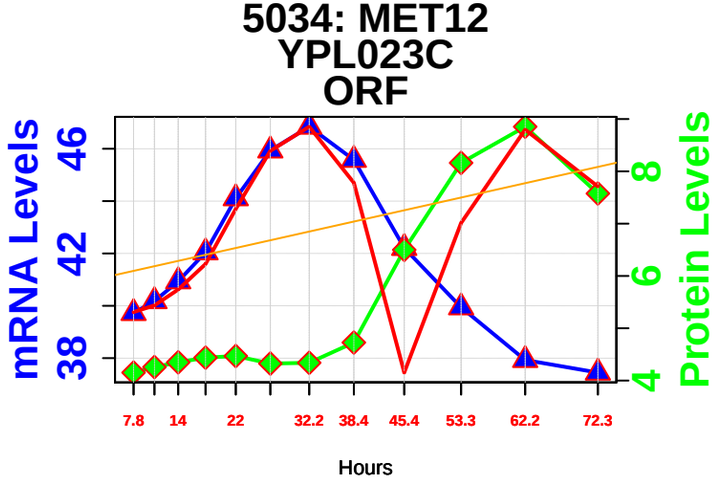

2247: ADE3
YGR204W
ORF
mRNA Levels
230
260
Protein Levels
3400
3700
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours


3253: SHM2
YLR058C
ORF
mRNA Levels
2400
2700
Protein Levels
19500
21000
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

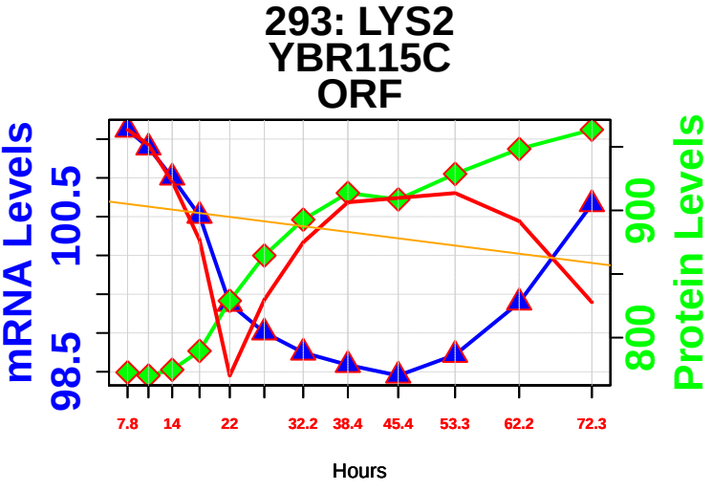

3812: FOL3
YMR113W
ORF
mRNA Levels
24
26
28
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

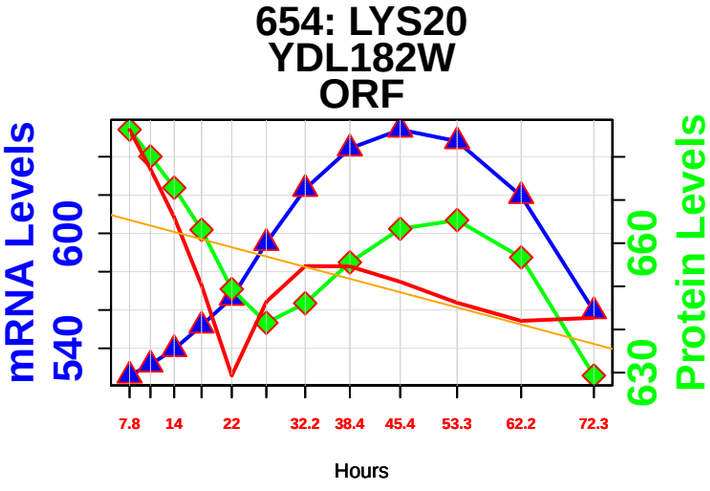

4684: DFR1
YOR236W
ORF
mRNA Levels
50
60
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

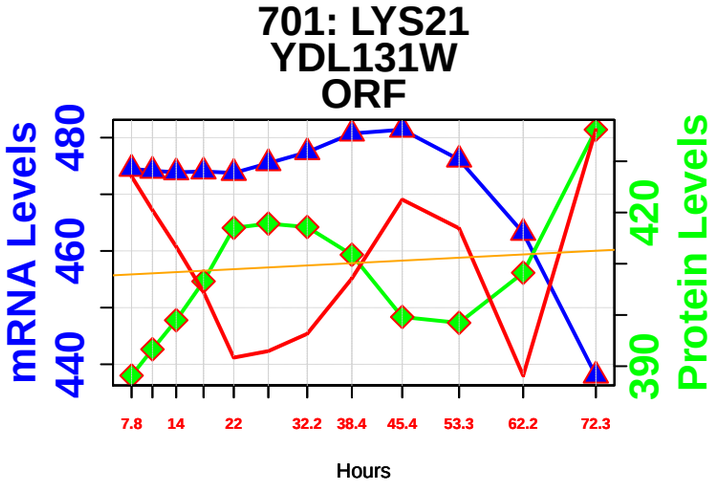

4688: MET7
YOR241W
ORF
mRNA Levels
38
42
46
Protein Levels
1.0
2.5
4.0
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

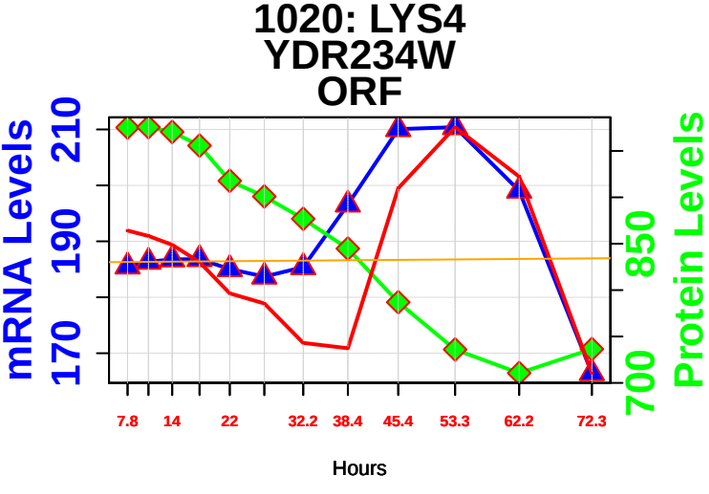

5034: MET12
YPL023C
ORF
mRNA Levels
38
42
46
Protein Levels
4
6
8
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

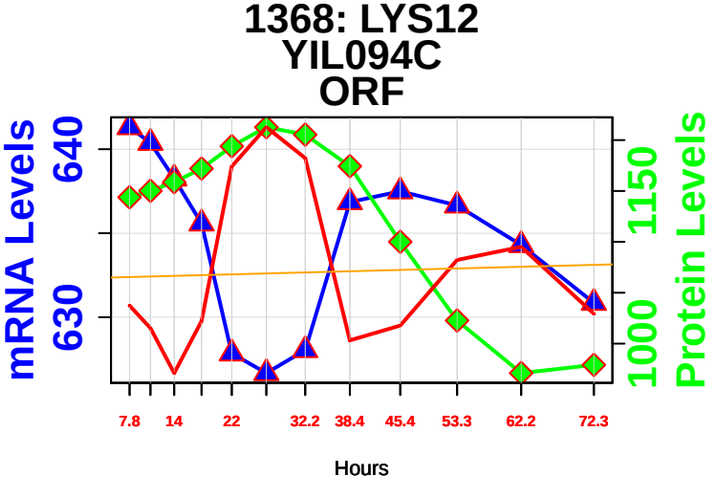
lysine biosynthesis

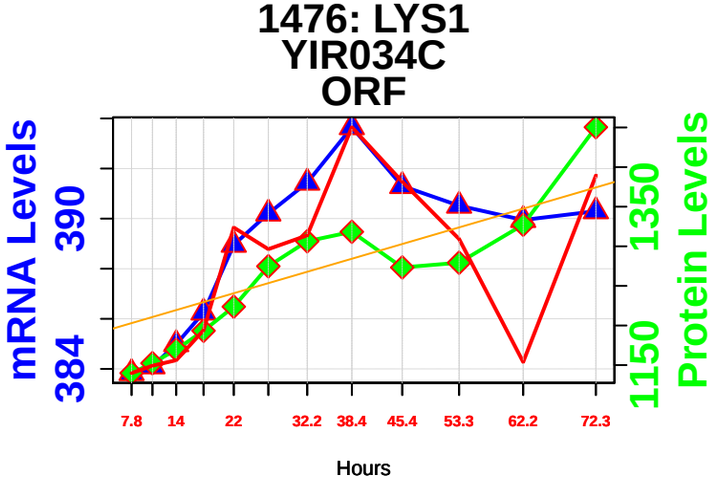


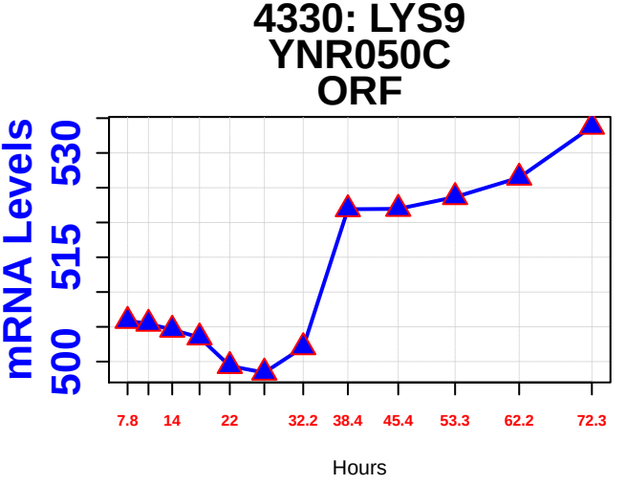




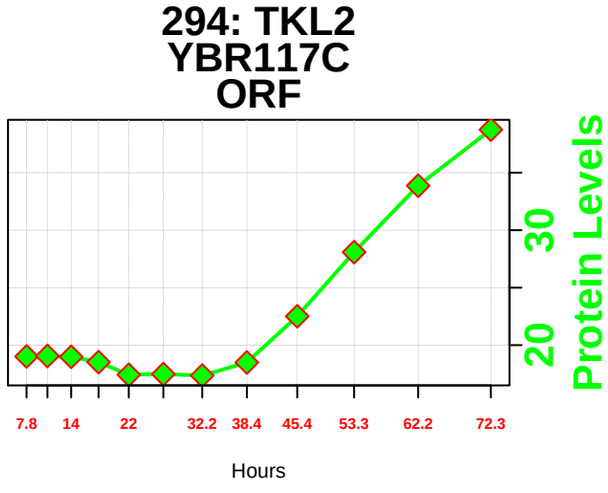


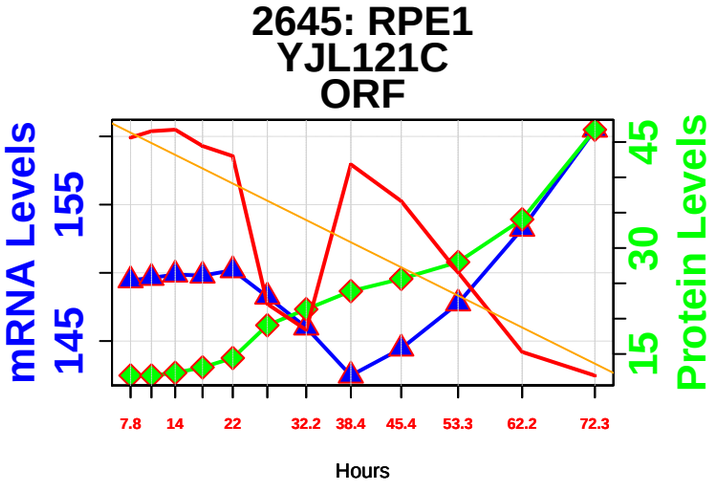


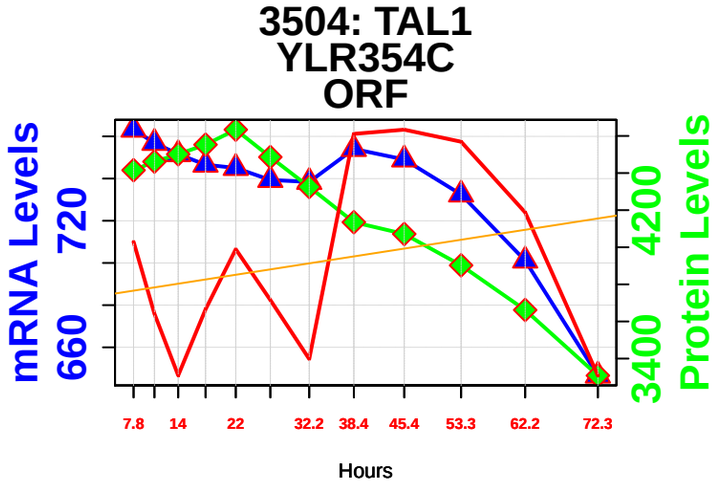


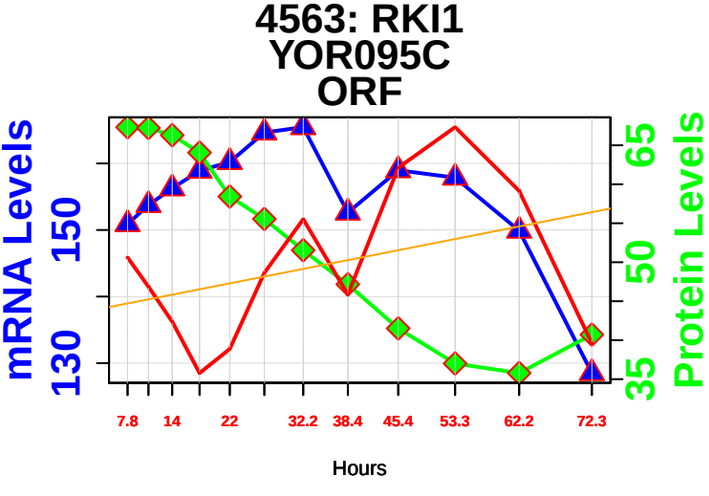


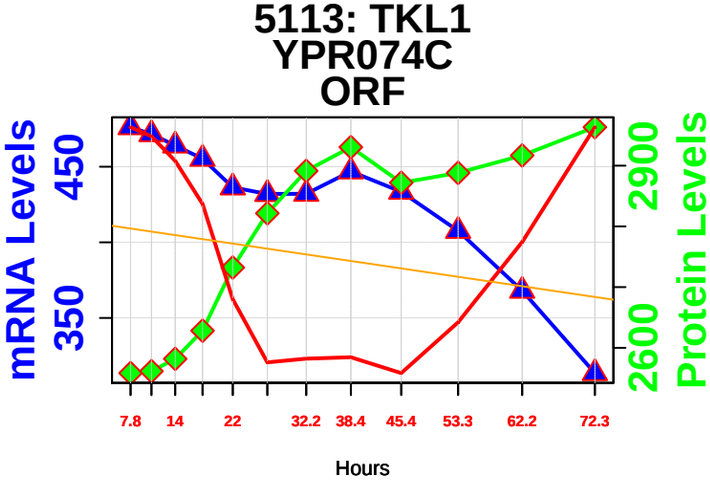
non−oxidative branch of the pentose phosphate pathway



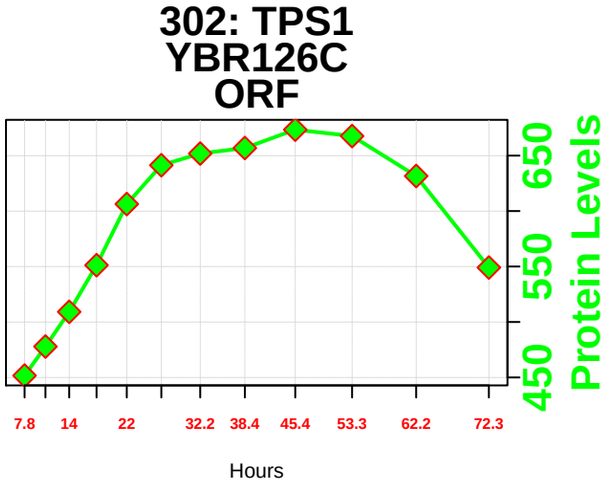


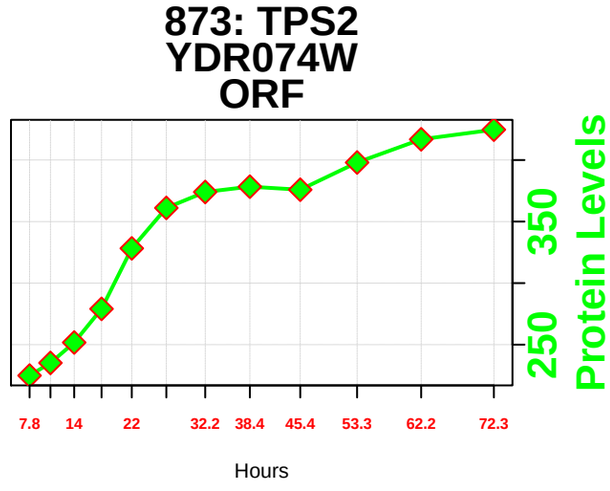




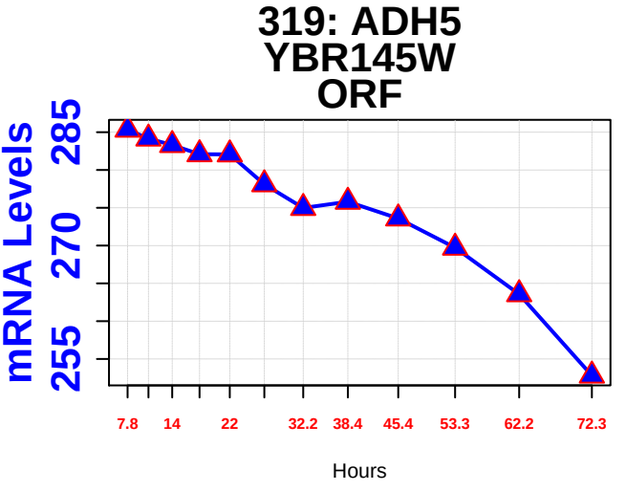


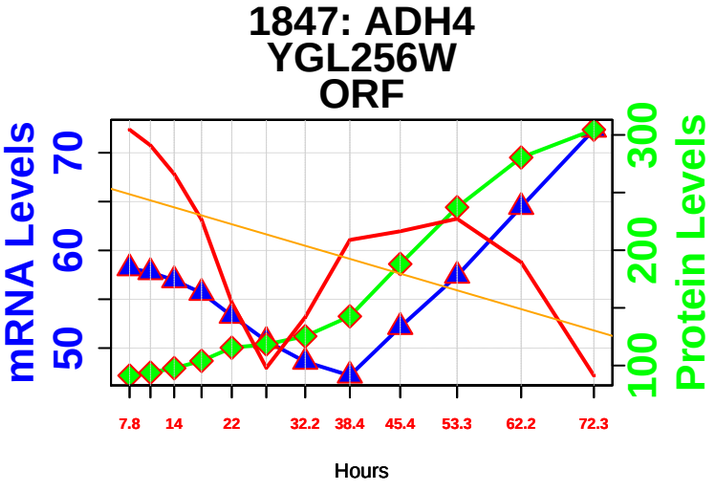
trehalose biosynthesis

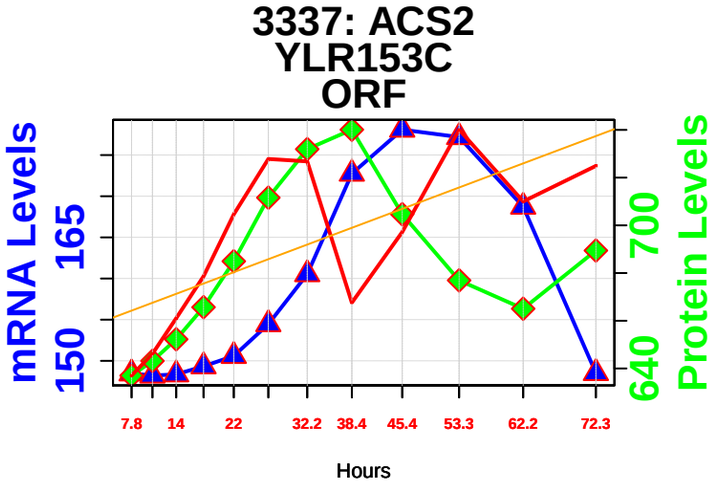


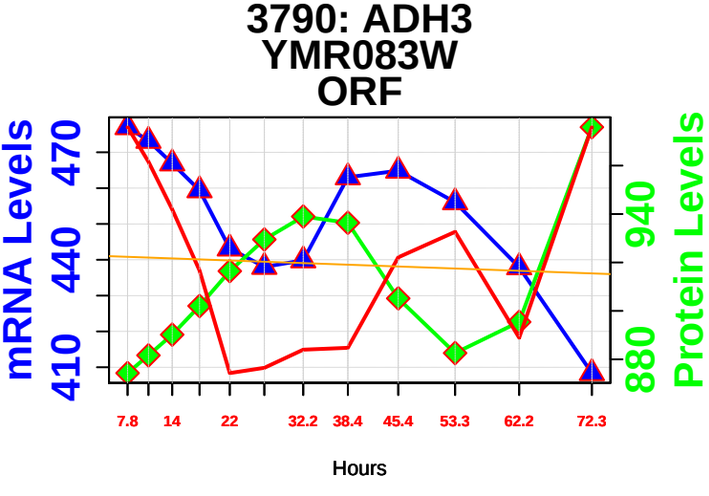


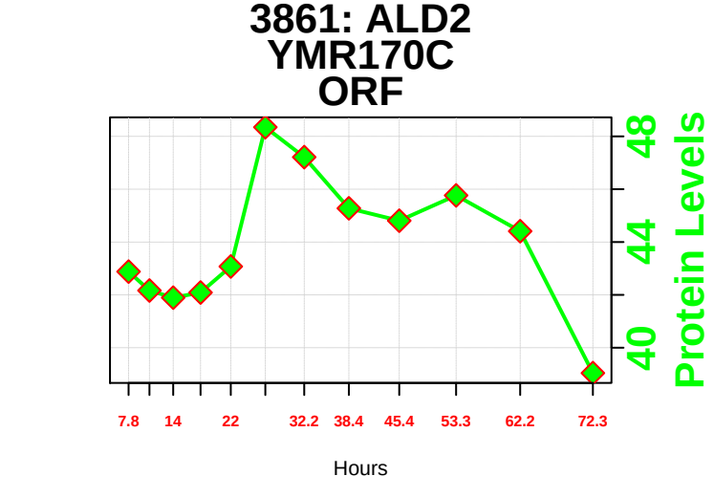
ethanol degradation

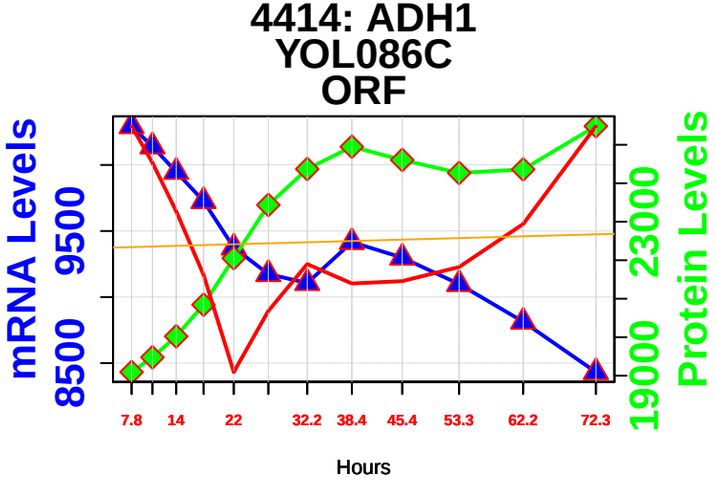


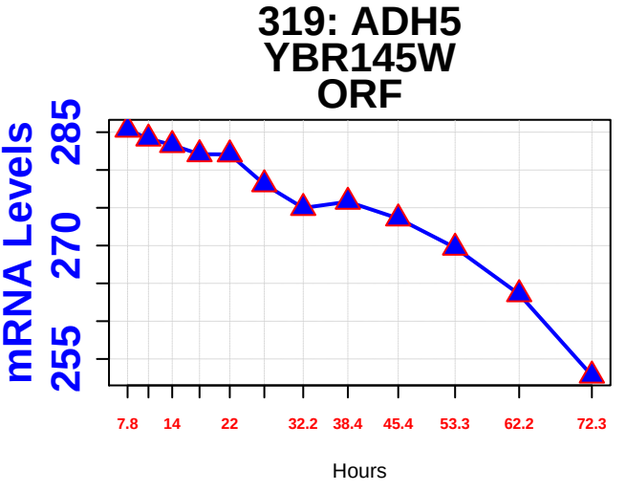


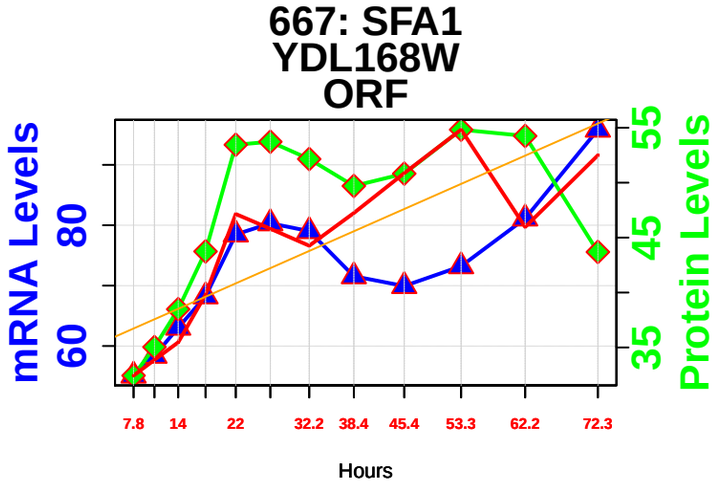


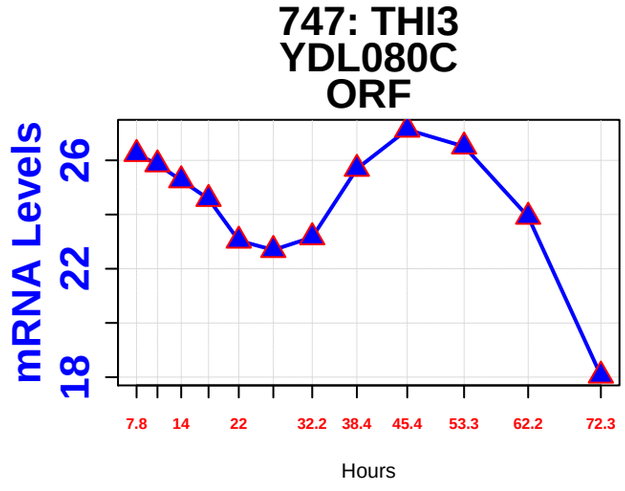


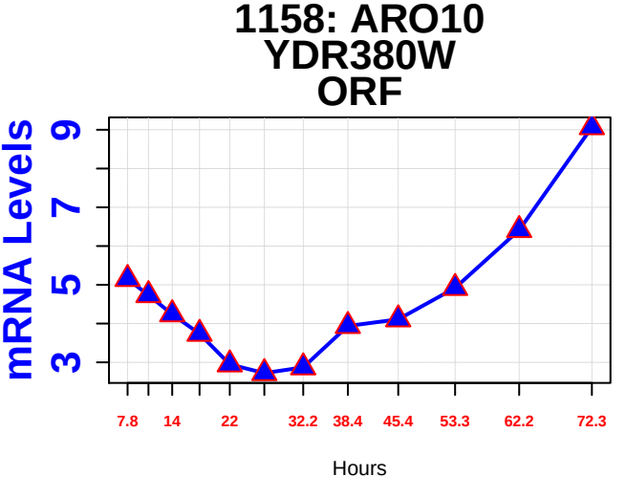


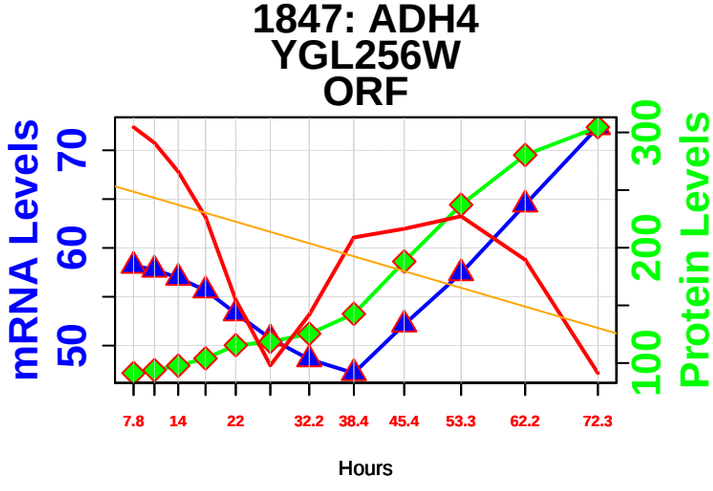


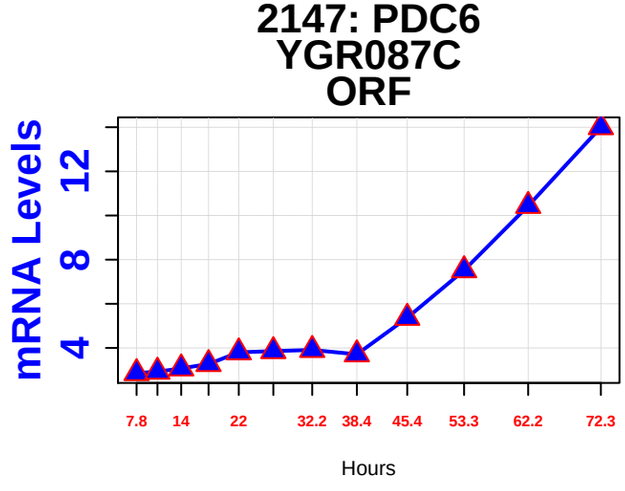

319: ADH5
YBR145W
ORF
mRNA Levels
285
270
255
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

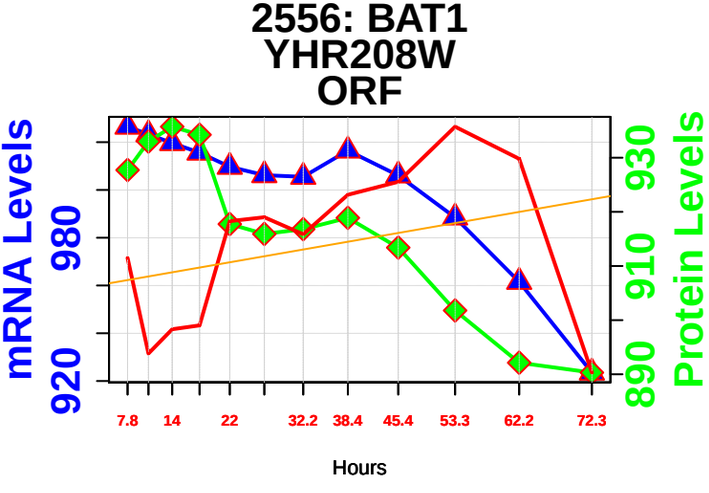

667: SFA1
YDL168W
ORF
mRNA Levels
80
60
Protein Levels
55
45
35
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

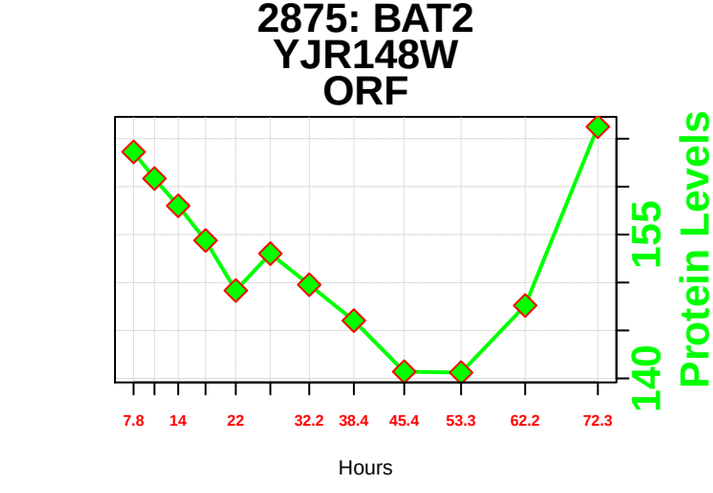

747: THI3
YDL080C
ORF
mRNA Levels
26
22
18
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

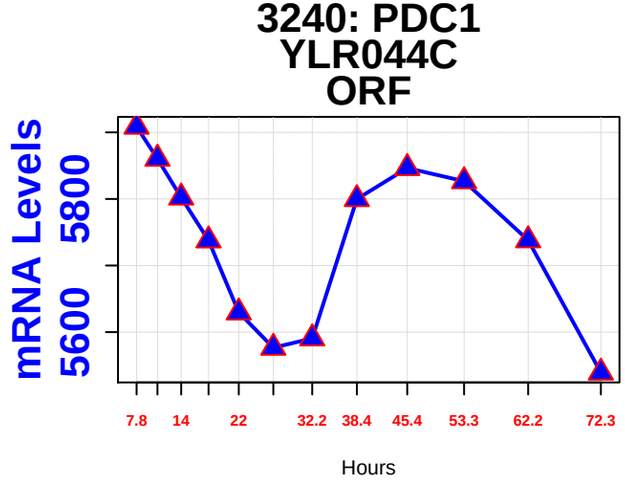

1158: ARO10
YDR380W
ORF
mRNA Levels
9
7
5
3
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours


1847: ADH4
YGL256W
ORF
mRNA Levels
70
60
50
Protein Levels
300
200
100
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

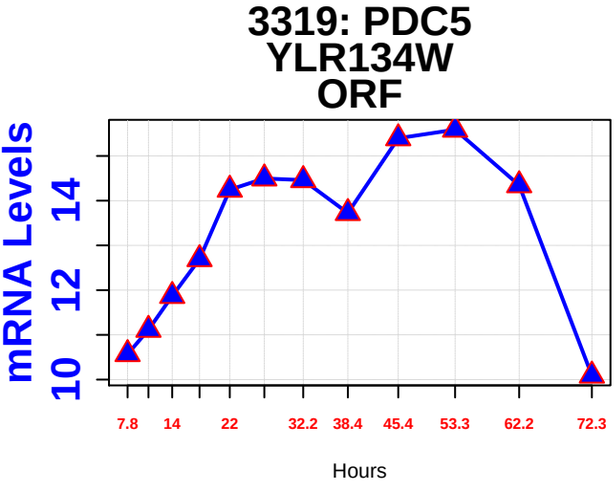

2147: PDC6
YGR087C
ORF
mRNA Levels
12
8
4
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

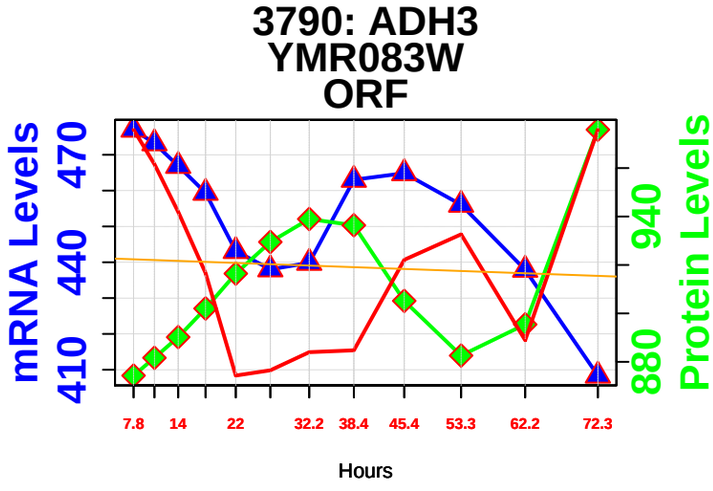

2556: BAT1
YHR208W
ORF
mRNA Levels
980
920
Protein Levels
930
910
890
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

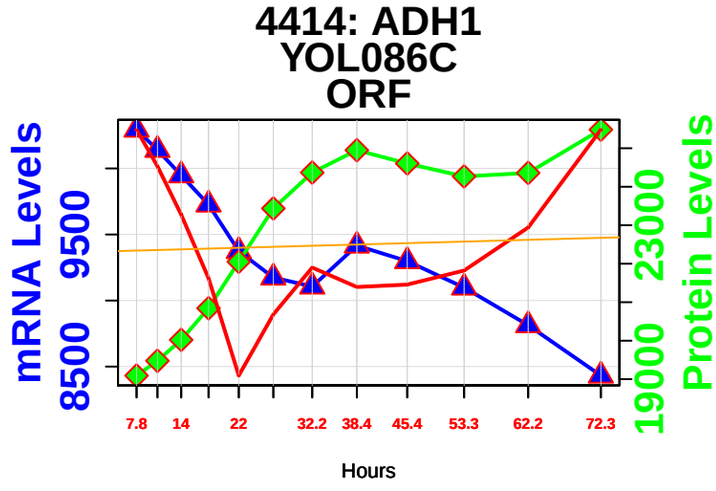

2875: BAT2
YJR148W
ORF
Protein Levels
155
140
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

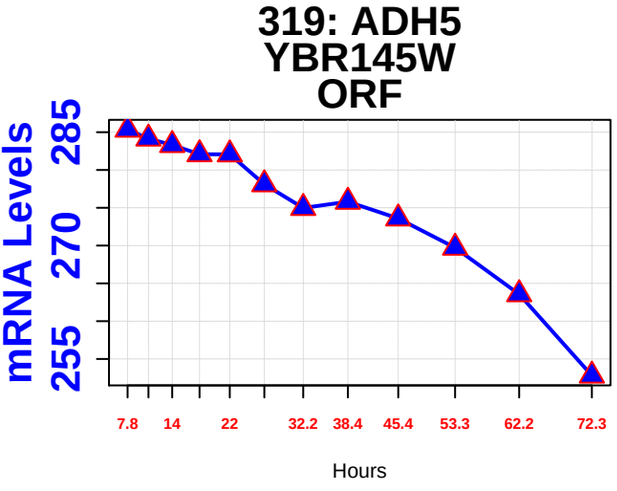

3240: PDC1
YLR044C
ORF
mRNA Levels
5800
5600
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

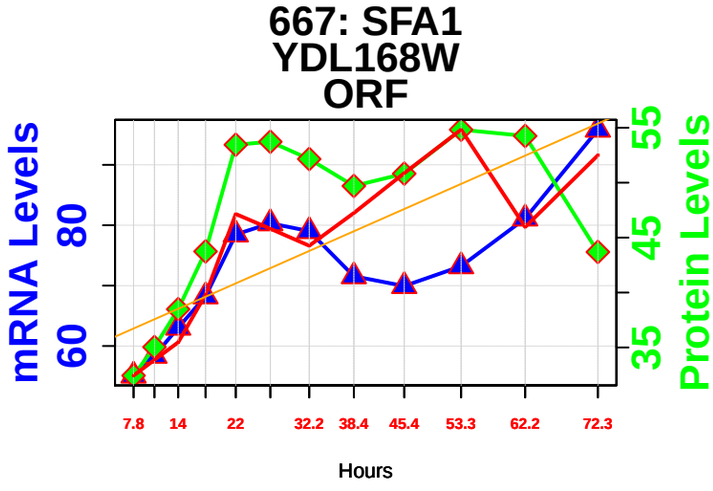
isoleucine degradation

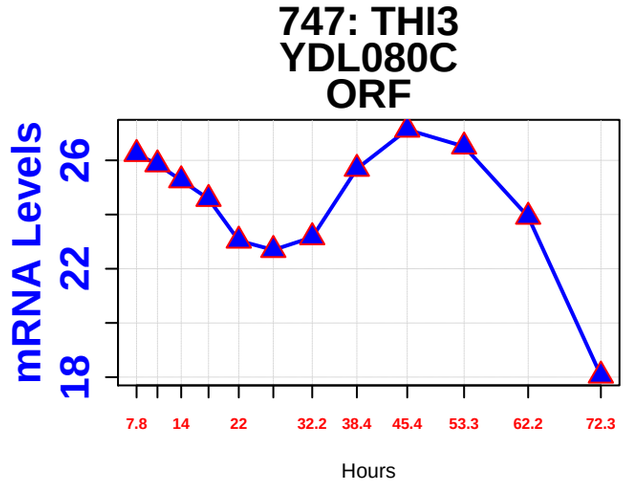


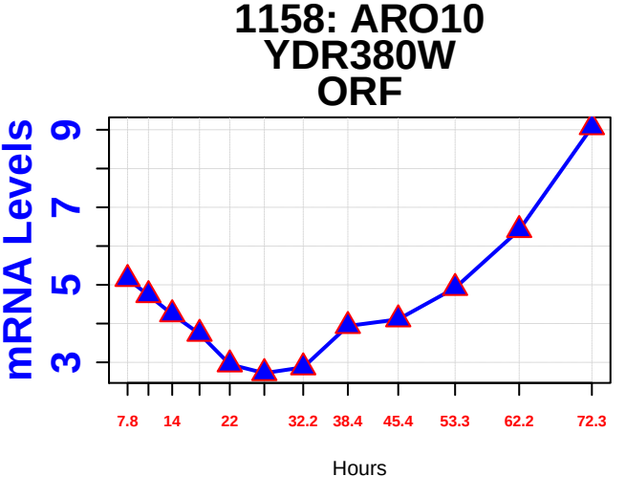


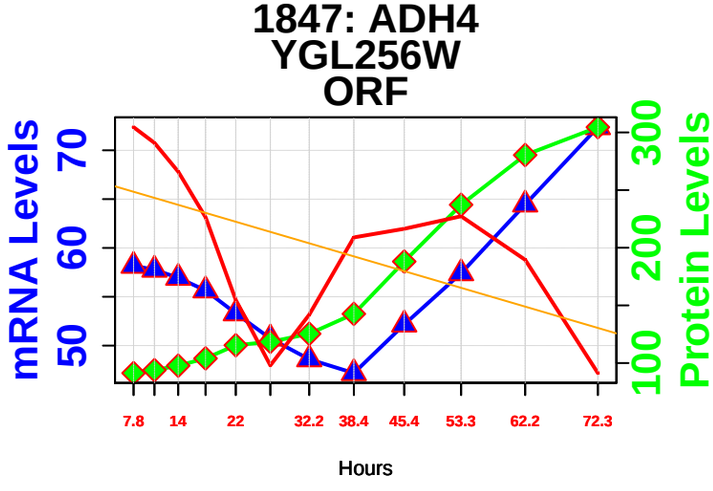


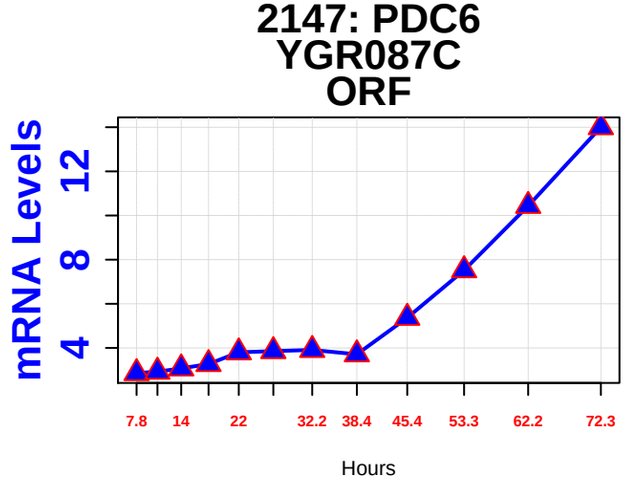

319: ADH5
YBR145W
ORF
mRNA Levels
285
270
255
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

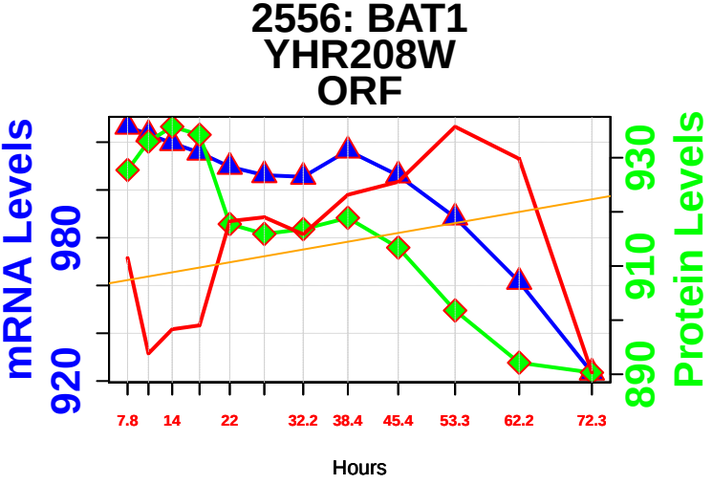

667: SFA1
YDL168W
ORF
mRNA Levels
80
60
Protein Levels
55
45
35
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

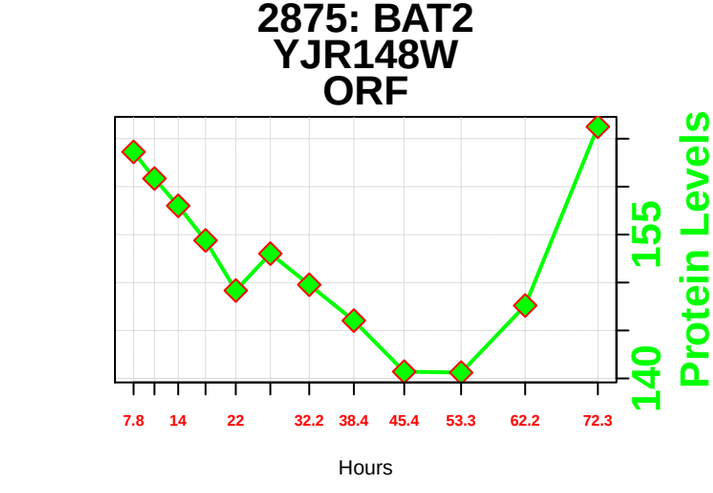

747: THI3
YDL080C
ORF
mRNA Levels
26
22
18
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

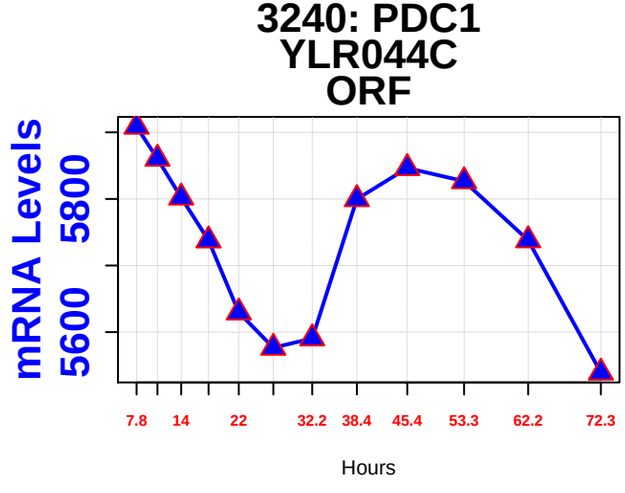

1158: ARO10
YDR380W
ORF
mRNA Levels
9
7
5
3
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours


1847: ADH4
YGL256W
ORF
mRNA Levels
70
60
50
Protein Levels
300
200
100
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

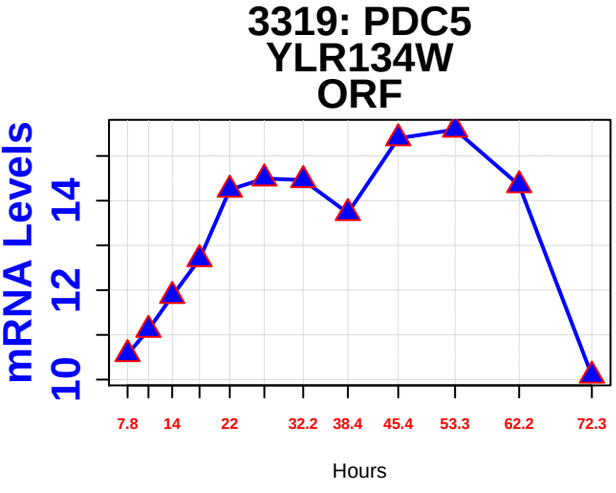

2147: PDC6
YGR087C
ORF
mRNA Levels
12
8
4
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

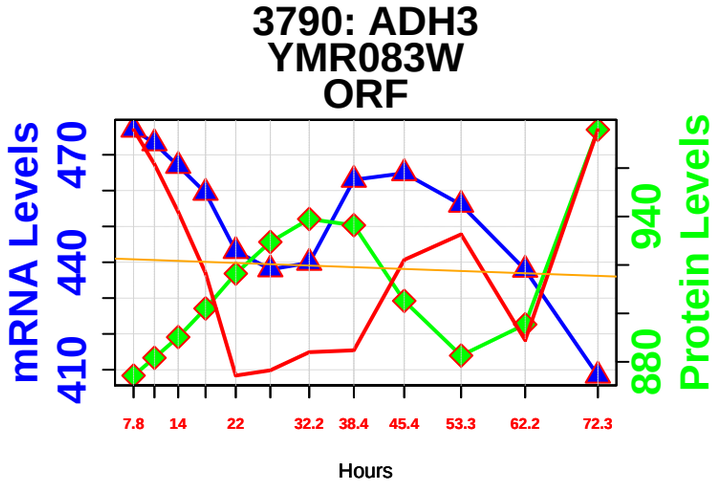

2556: BAT1
YHR208W
ORF
mRNA Levels
980
920
Protein Levels
930
910
890
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

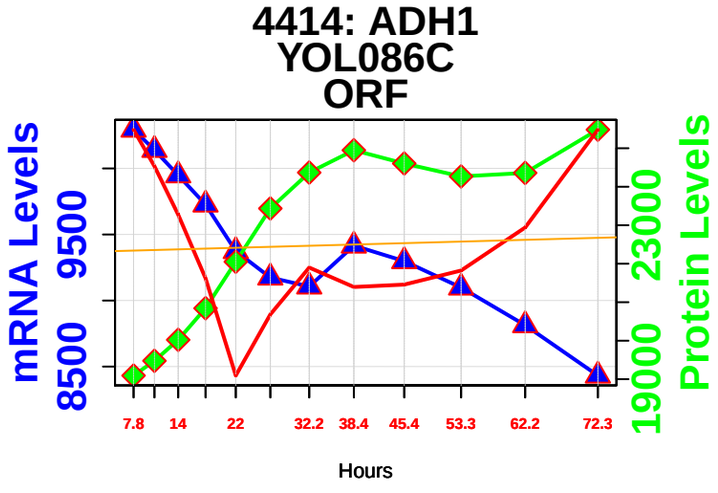

2875: BAT2
YJR148W
ORF
Protein Levels
155
140
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

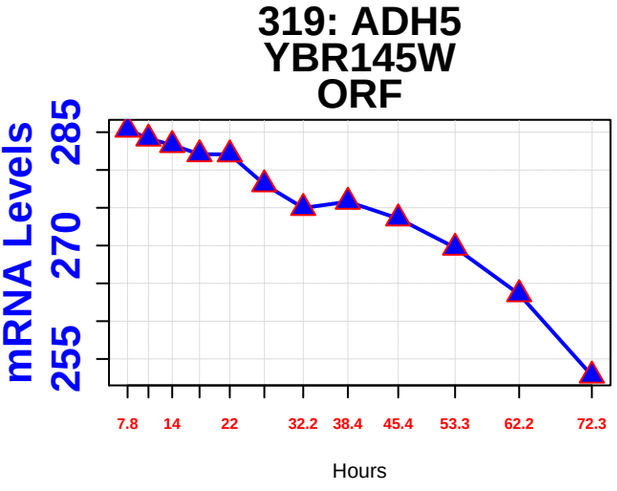

3240: PDC1
YLR044C
ORF
mRNA Levels
5800
5600
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

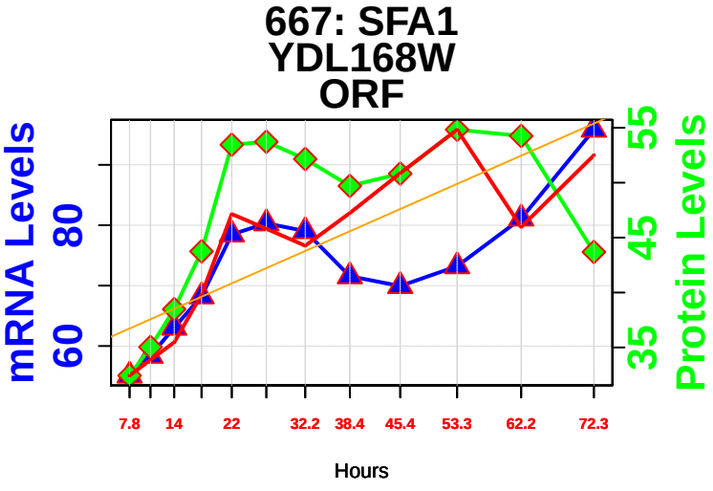
leucine degradation

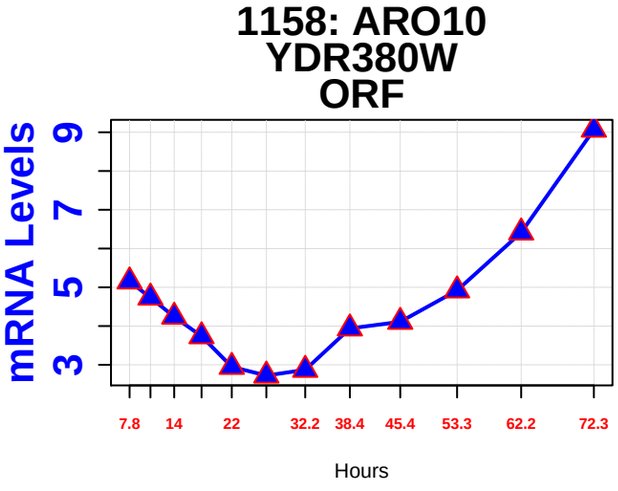


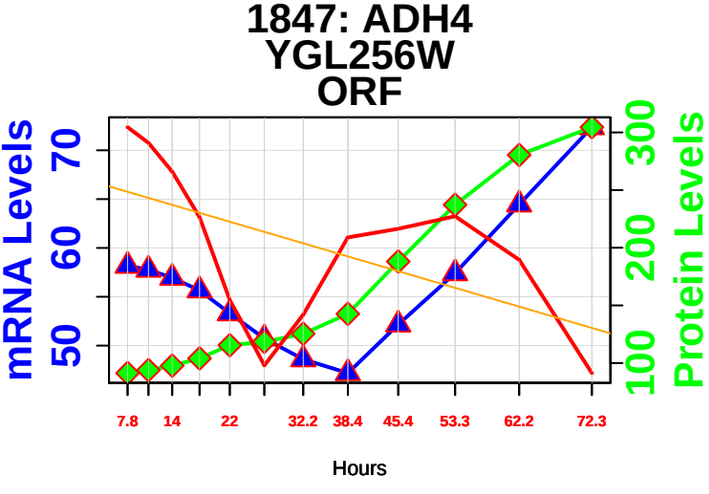


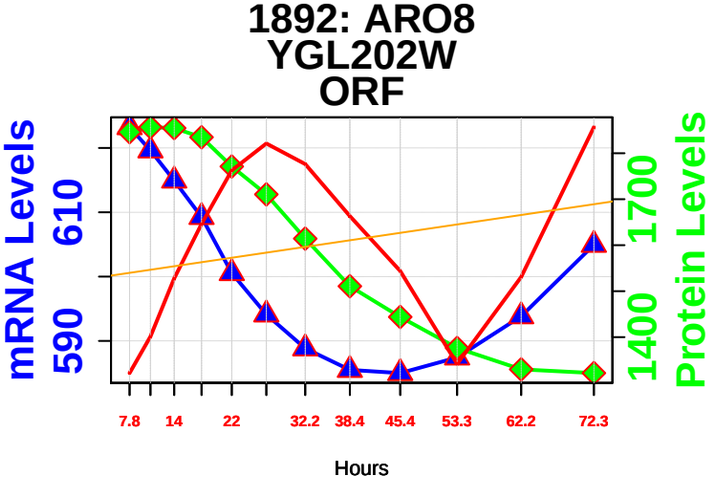


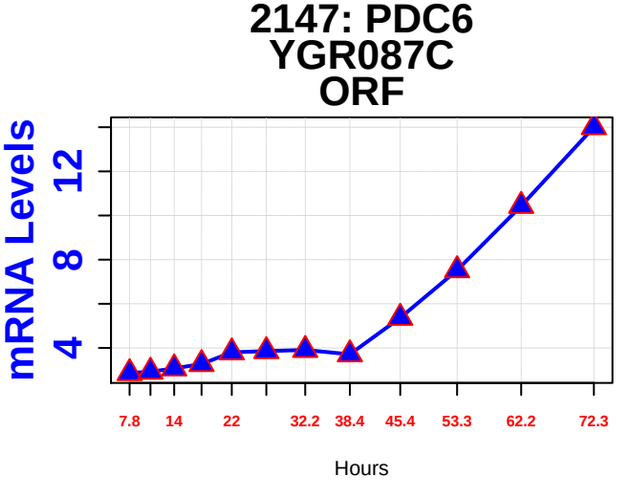

319: ADH5
YBR145W
ORF
mRNA Levels
255 270 285
7.8 14 22 32.2 38.4 45.4 53.3 62.2 72.3
Hours

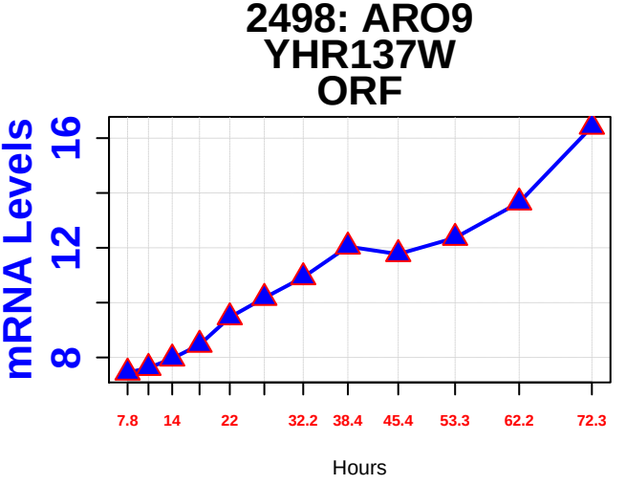

667: SFA1
YDL168W
ORF
mRNA Levels
60 80
Protein Levels
35 45 55
7.8 14 22 32.2 38.4 45.4 53.3 62.2 72.3
Hours

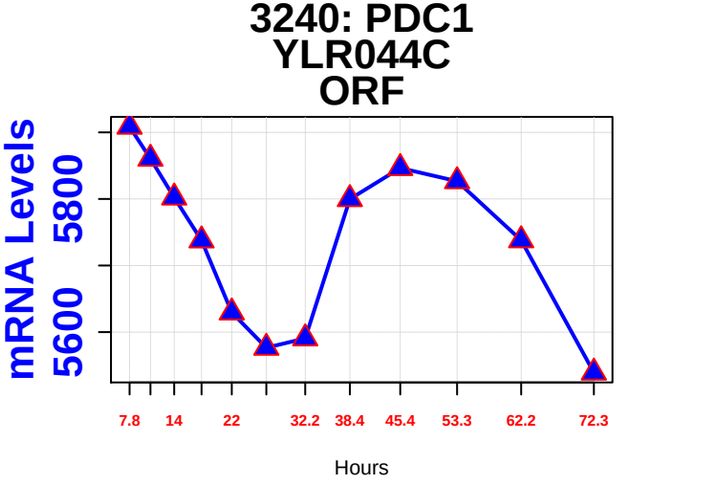

1158: ARO10
YDR380W
ORF
mRNA Levels
3 5 7 9
7.8 14 22 32.2 38.4 45.4 53.3 62.2 72.3
Hours

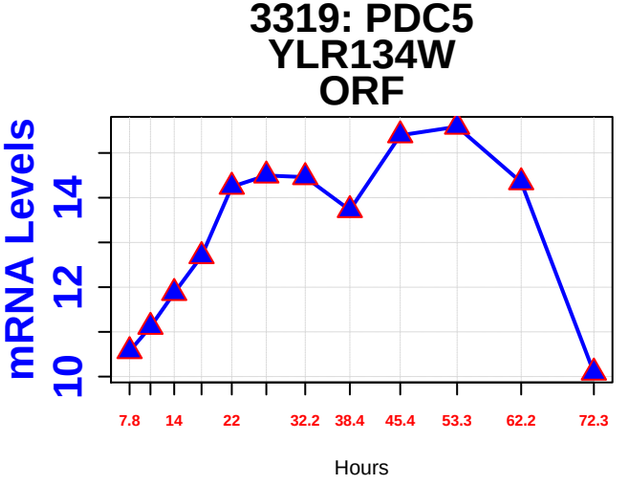

1847: ADH4
YGL256W
ORF
mRNA Levels
50 60 70
Protein Levels
100 200 300
7.8 14 22 32.2 38.4 45.4 53.3 62.2 72.3
Hours


1892: ARO8
YGL202W
ORF
mRNA Levels
590 610
Protein Levels
1400 1700
7.8 14 22 32.2 38.4 45.4 53.3 62.2 72.3
Hours

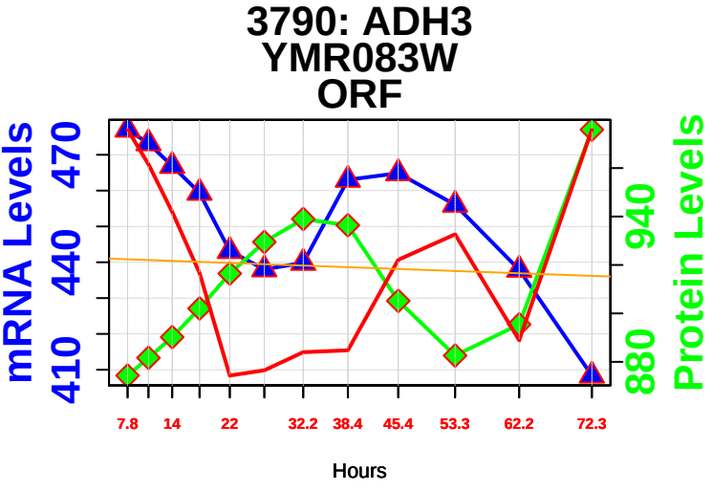

2147: PDC6
YGR087C
ORF
mRNA Levels
4 8 12
7.8 14 22 32.2 38.4 45.4 53.3 62.2 72.3
Hours

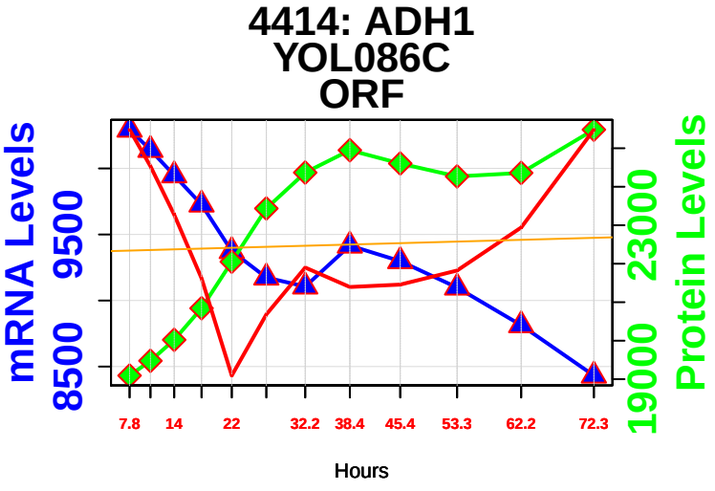

2498: ARO9
YHR137W
ORF
mRNA Levels
8 12 16
7.8 14 22 32.2 38.4 45.4 53.3 62.2 72.3
Hours

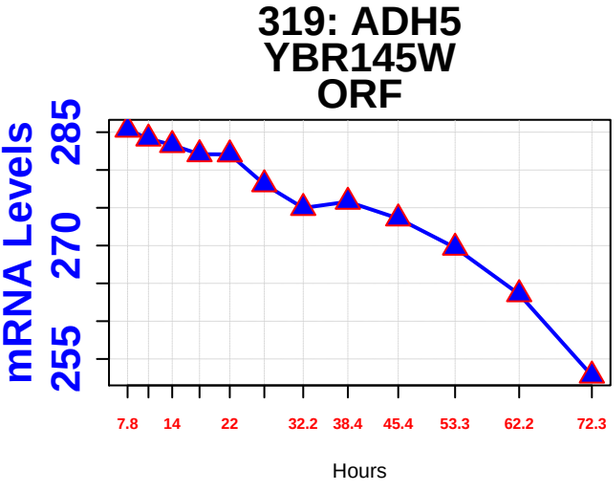

3240: PDC1
YLR044C
ORF
mRNA Levels
5600 5800
7.8 14 22 32.2 38.4 45.4 53.3 62.2 72.3
Hours

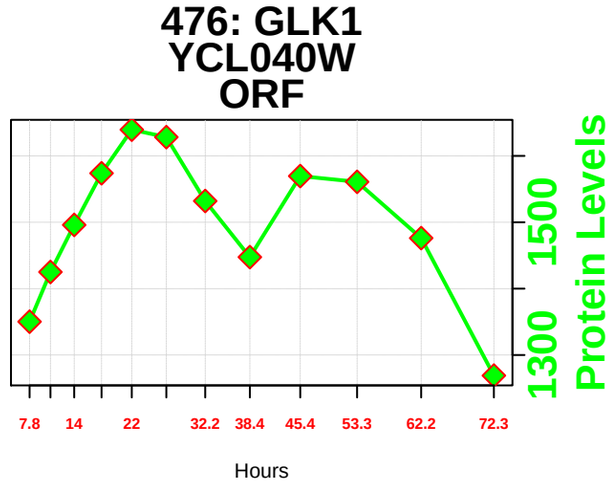

3319: PDC5
YLR134W
ORF
mRNA Levels
10 12 14
7.8 14 22 32.2 38.4 45.4 53.3 62.2 72.3
Hours

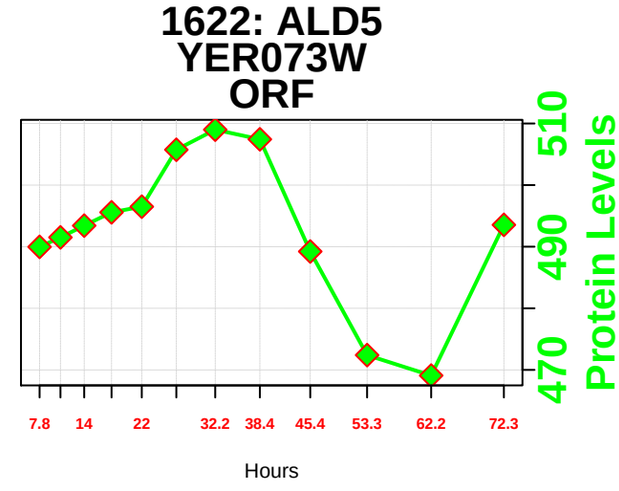
phenylalanine degradation

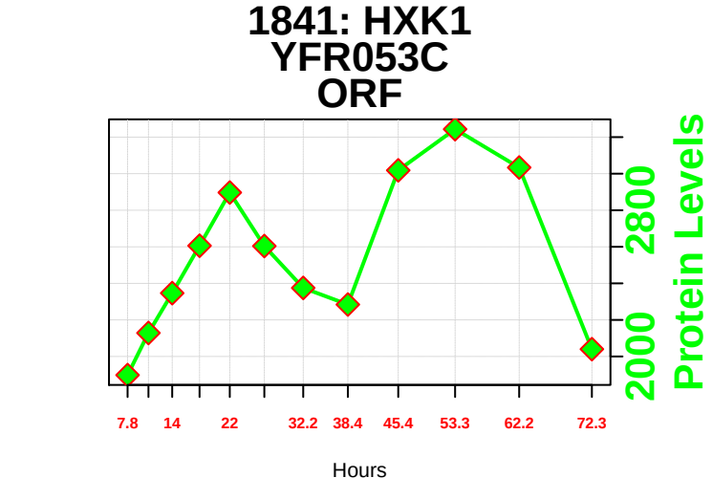


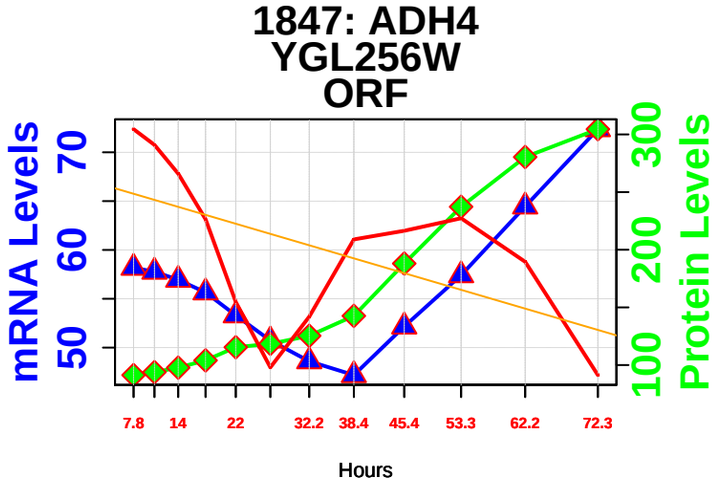


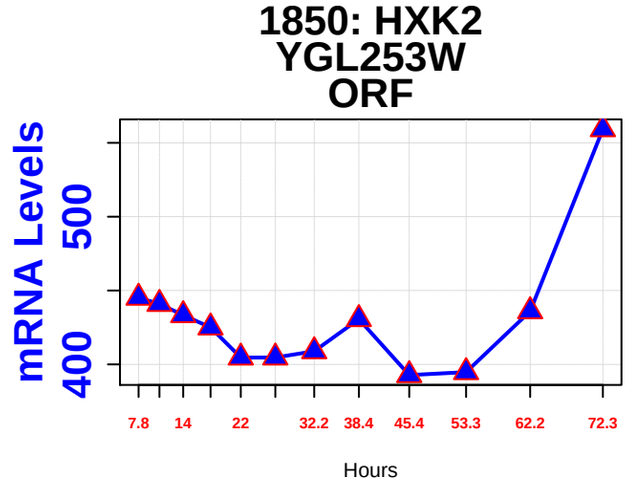

319: ADH5
YBR145W
ORF
mRNA Levels
255
270
285
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

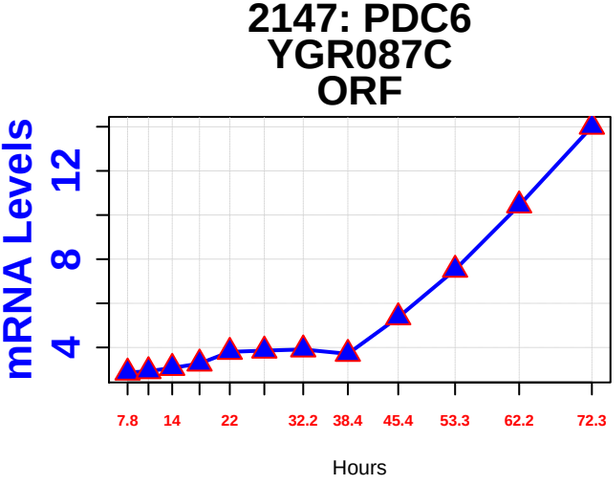

476: GLK1
YCL040W
ORF
1300
1500
Protein Levels
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

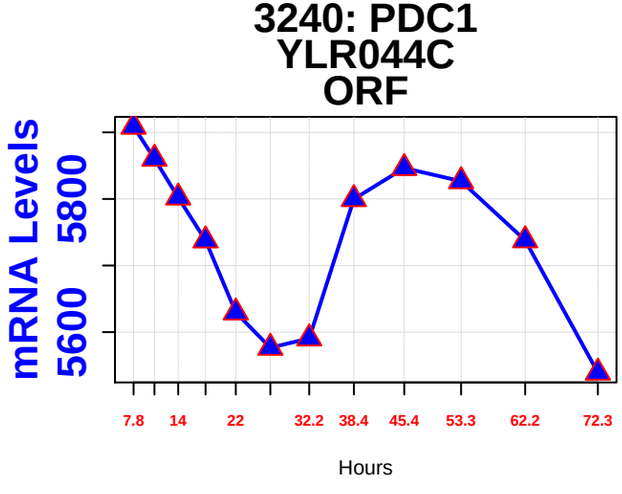

1622: ALD5
YER073W
ORF
470
490
510
Protein Levels
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

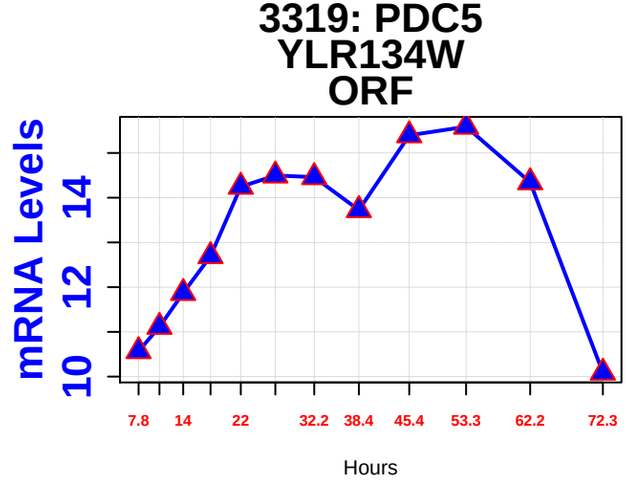

1841: HXK1
YFR053C
ORF
2000
2800
Protein Levels
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours


1847: ADH4
YGL256W
ORF
mRNA Levels
50
60
70
100
200
300
Protein Levels
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

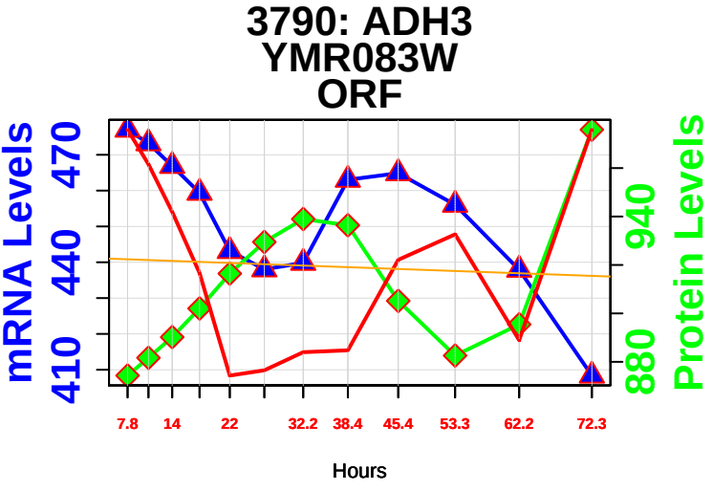

1850: HXK2
YGL253W
ORF
mRNA Levels
400
500
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

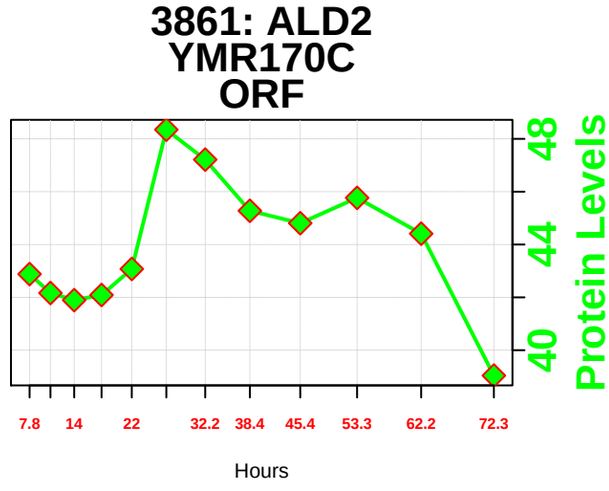

2147: PDC6
YGR087C
ORF
mRNA Levels
4
8
12
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

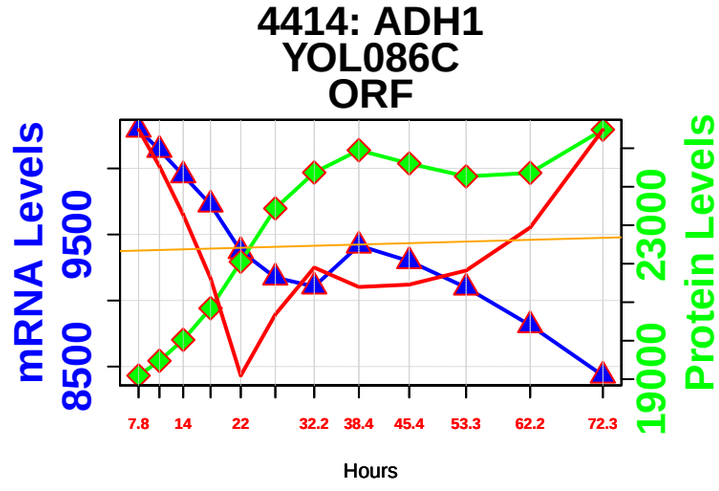

3240: PDC1
YLR044C
ORF
mRNA Levels
5600
5800
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

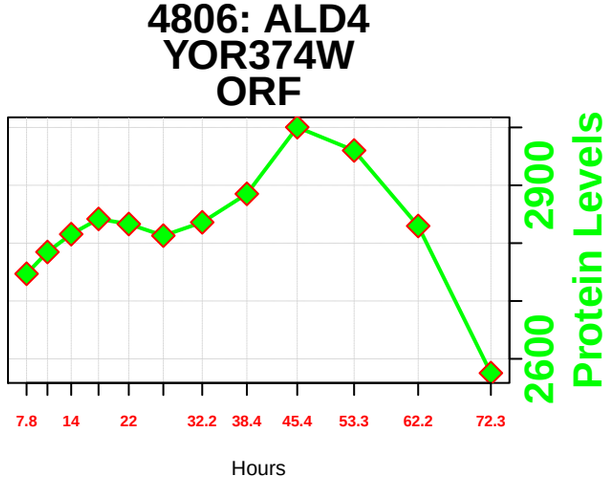

3319: PDC5
YLR134W
ORF
mRNA Levels
10
12
14
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

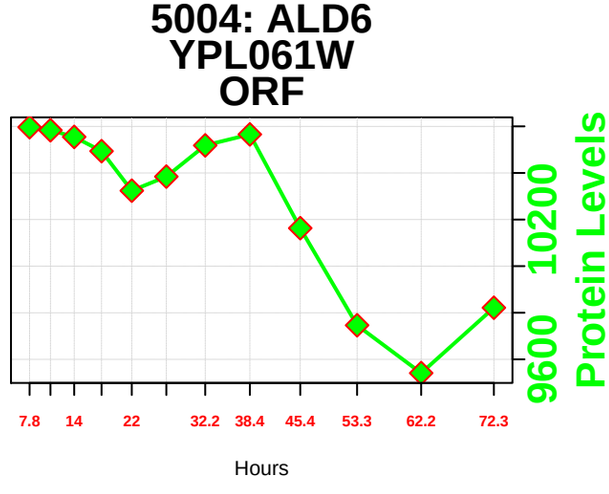
superpathway of glucose fermentation

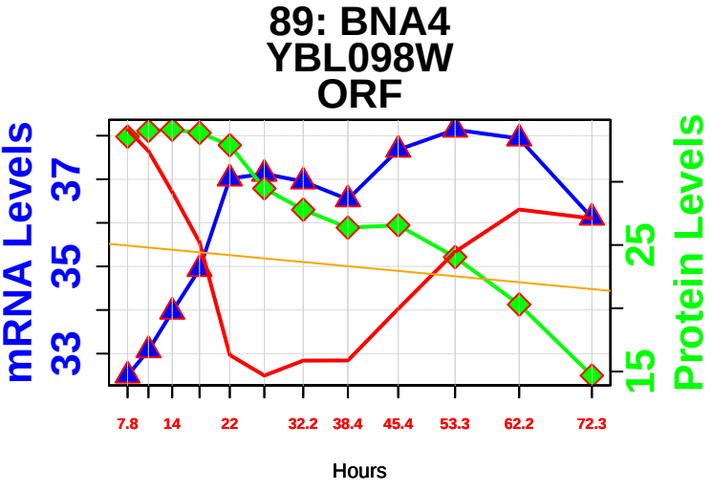


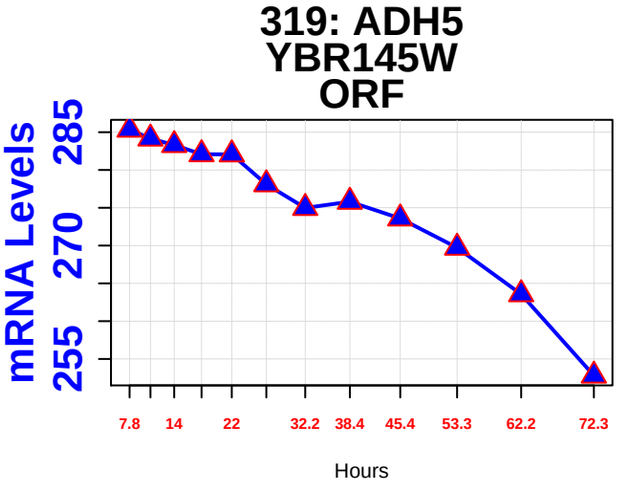


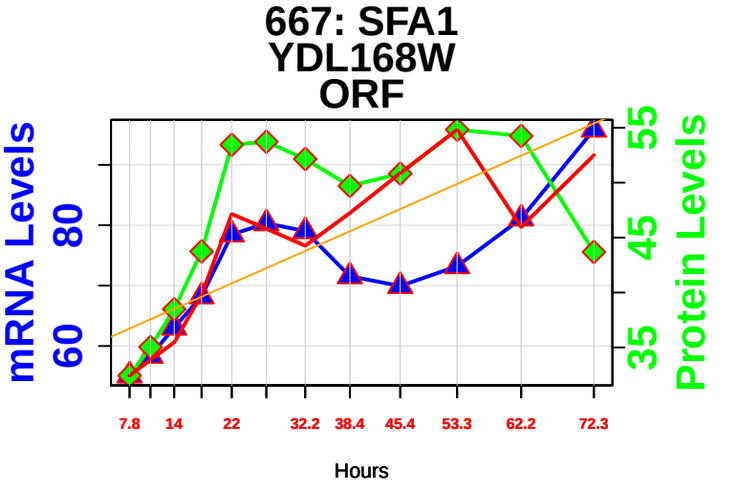


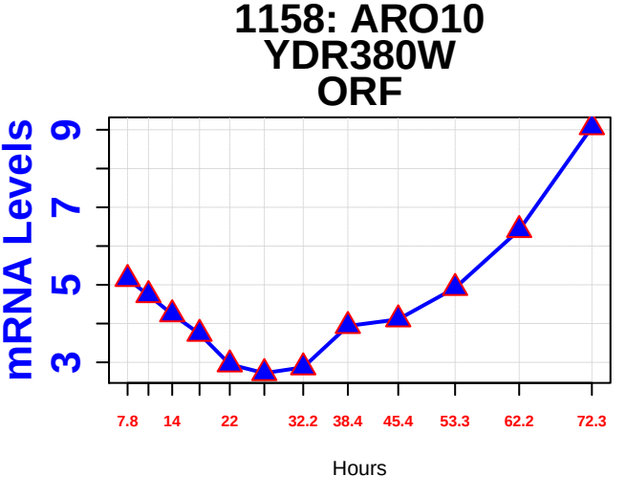


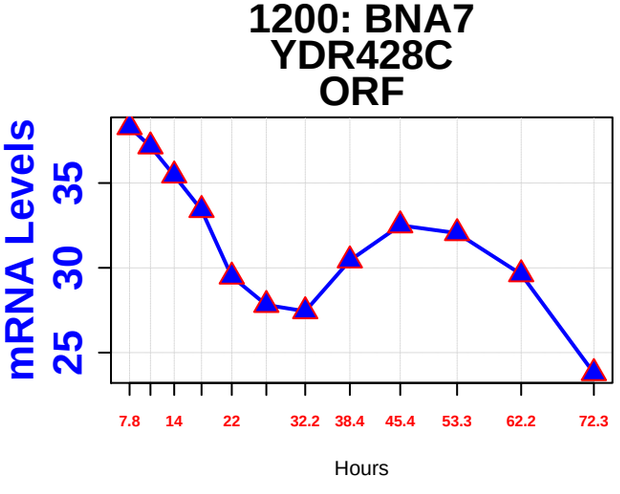


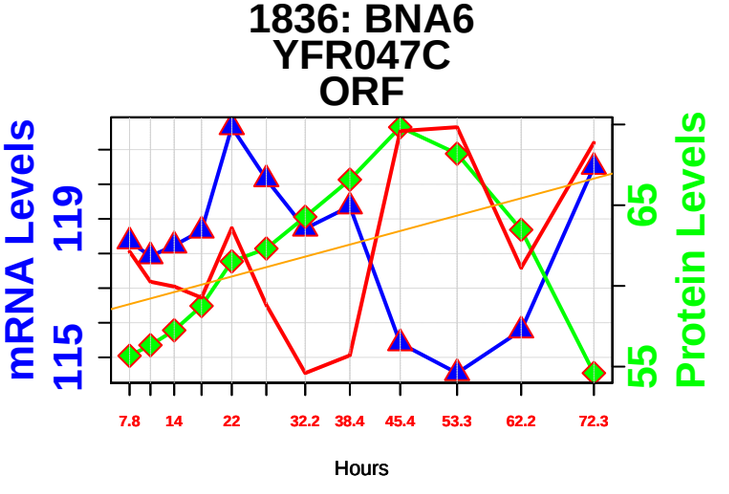

89: BNA4
YBL098W
ORF
mRNA Levels
33
35
37
Protein Levels
15
25
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

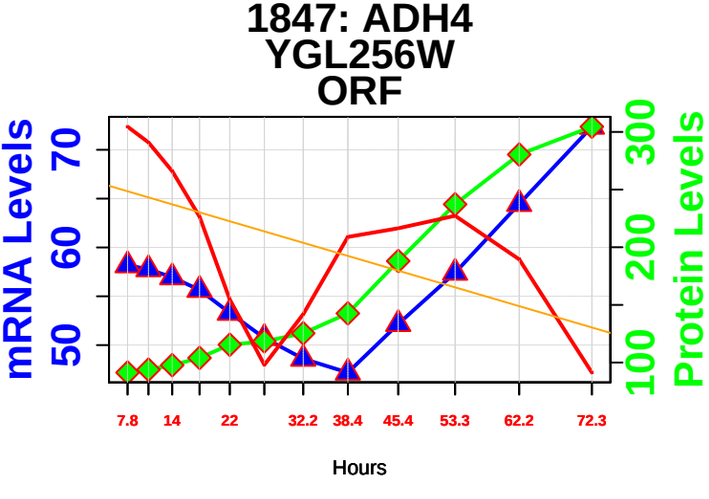

319: ADH5
YBR145W
ORF
mRNA Levels
255
270
285
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

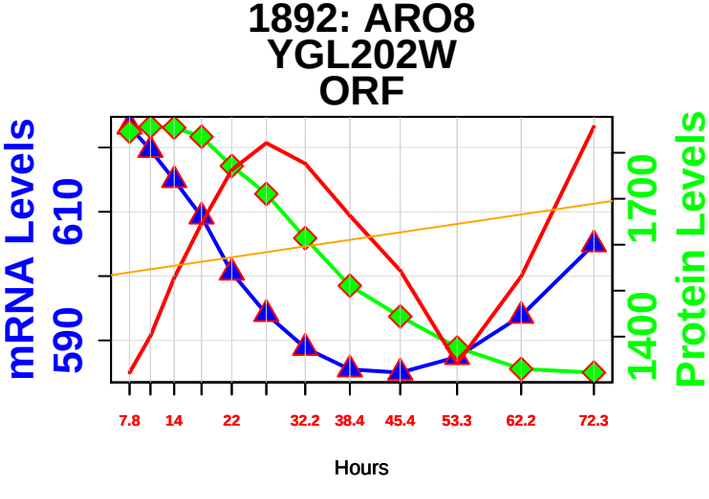

667: SFA1
YDL168W
ORF
mRNA Levels
60
80
Protein Levels
35
45
55
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

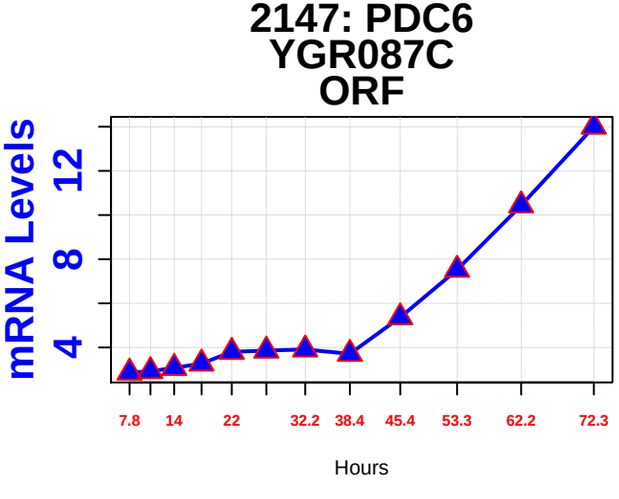

1158: ARO10
YDR380W
ORF
mRNA Levels
3
5
7
9
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours


1200: BNA7
YDR428C
ORF
mRNA Levels
25
30
35
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

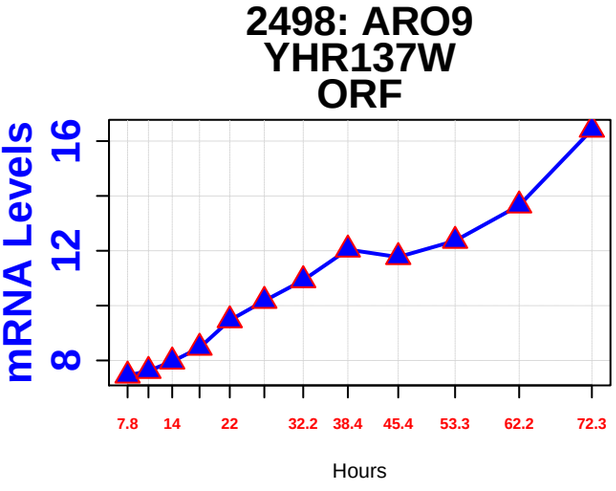

1836: BNA6
YFR047C
ORF
mRNA Levels
115
119
Protein Levels
55
65
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

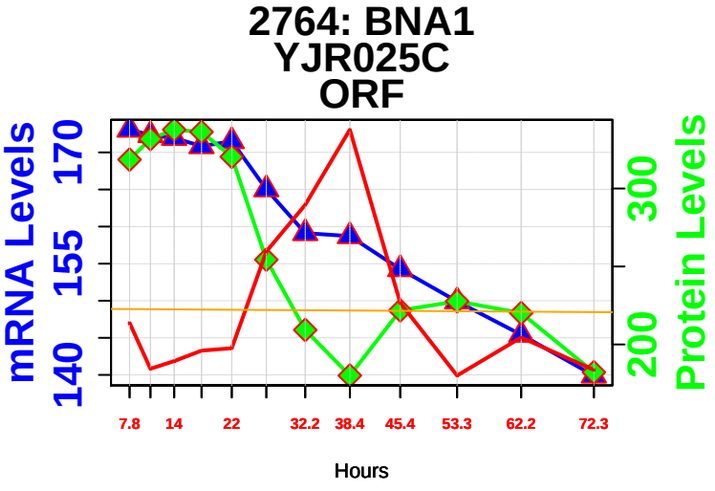

1847: ADH4
YGL256W
ORF
mRNA Levels
50
60
70
Protein Levels
100
200
300
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

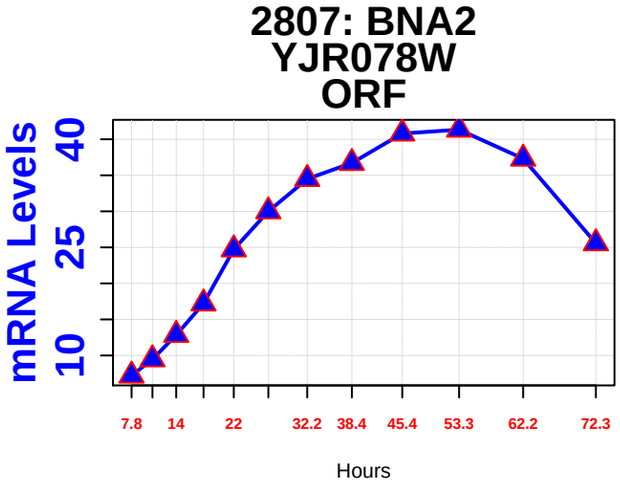

1892: ARO8
YGL202W
ORF
mRNA Levels
590
610
Protein Levels
1400
1700
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

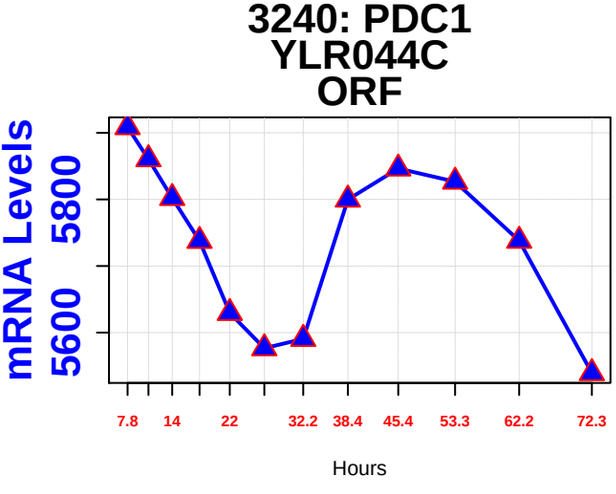

2147: PDC6
YGR087C
ORF
mRNA Levels
4
8
12
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

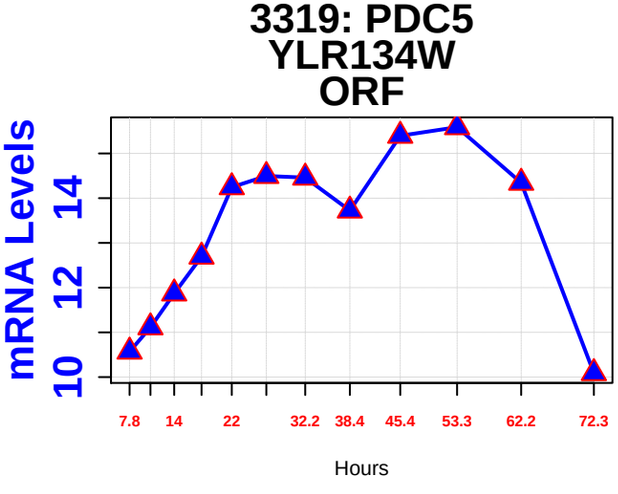
tryptophan degradation

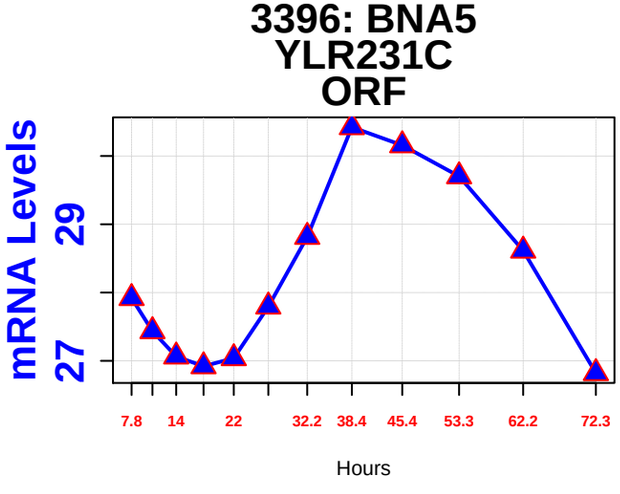


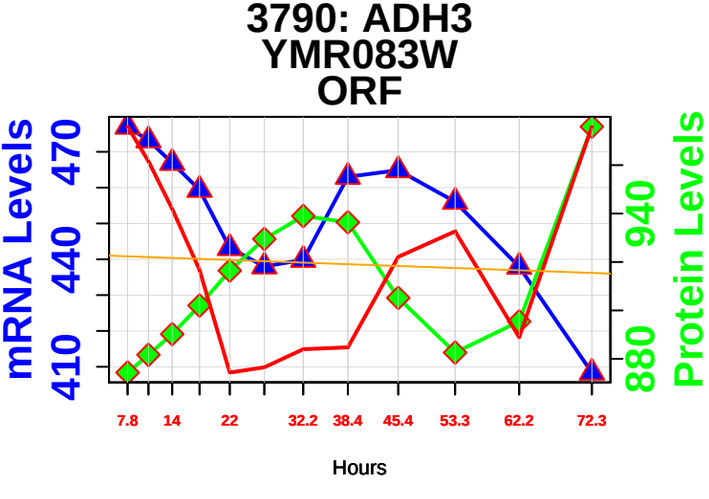


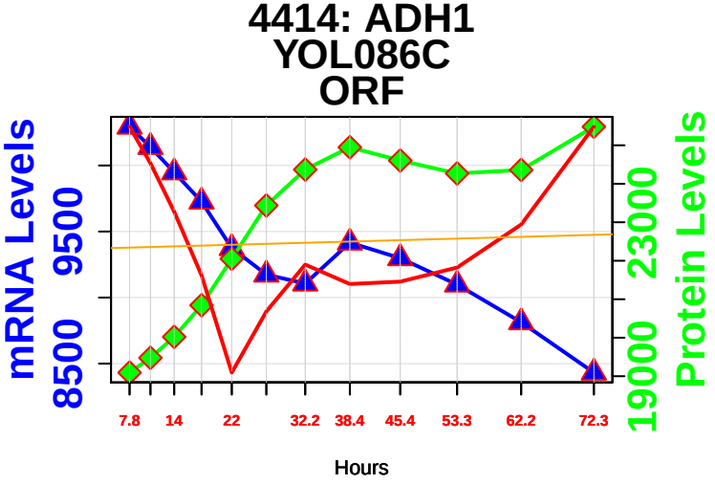


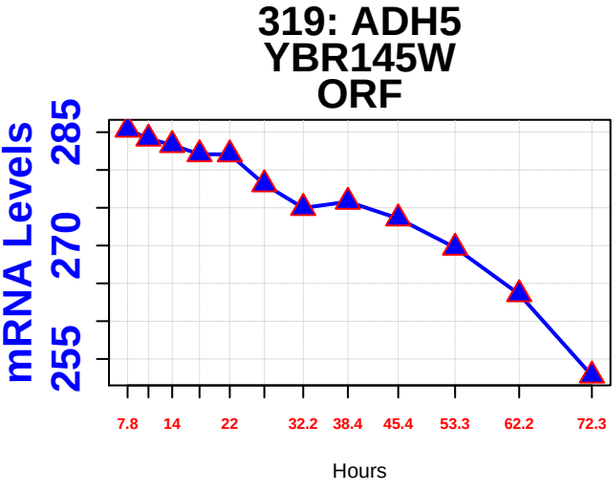


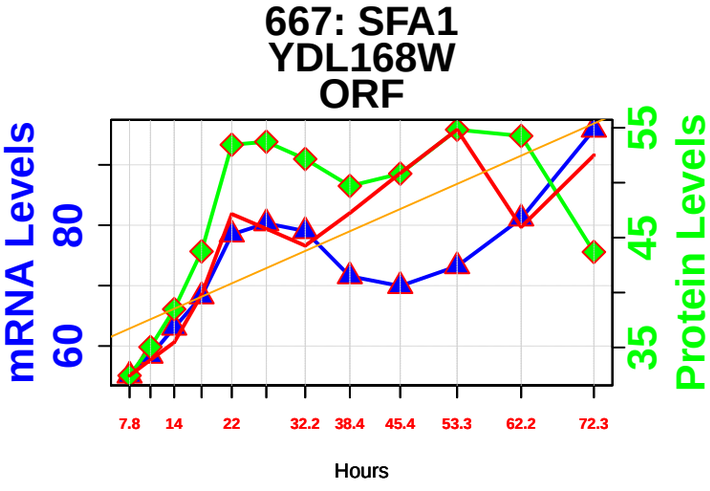


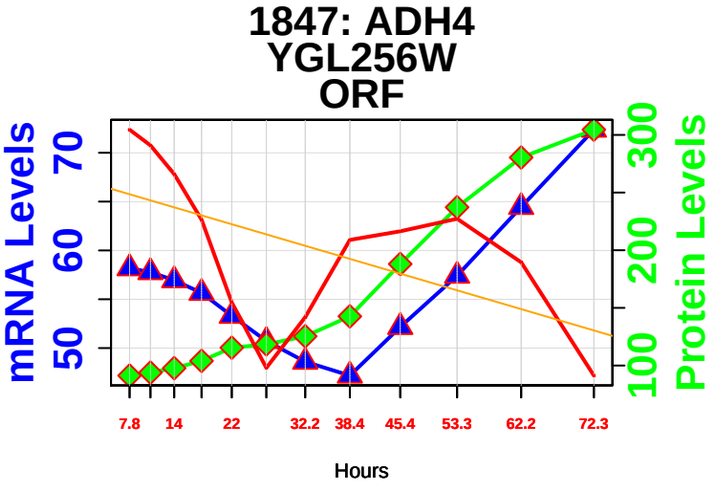


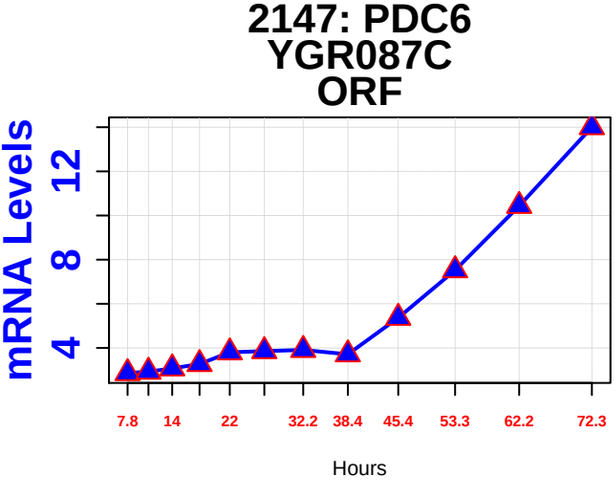


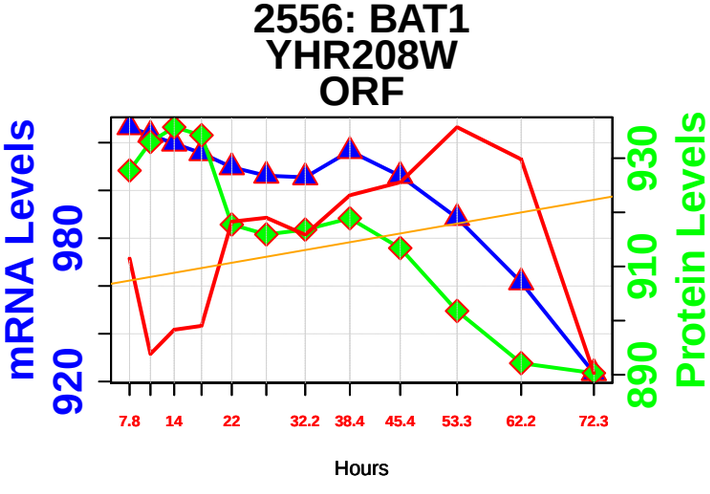


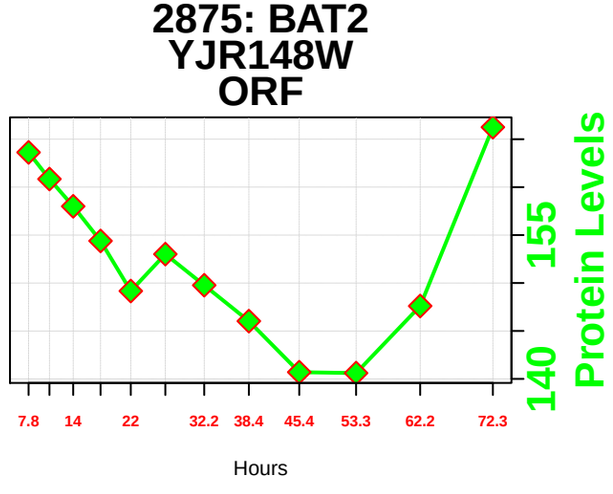

319: ADH5
YBR145W
ORF
mRNA Levels
255
270
285
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

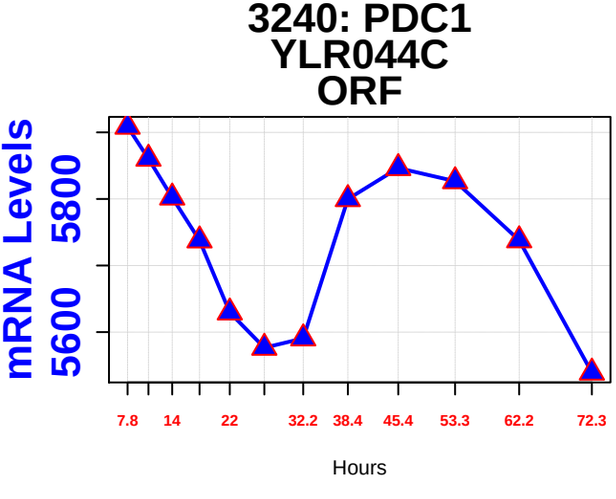

667: SFA1
YDL168W
ORF
mRNA Levels
60
80
Protein Levels
35
45
55
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

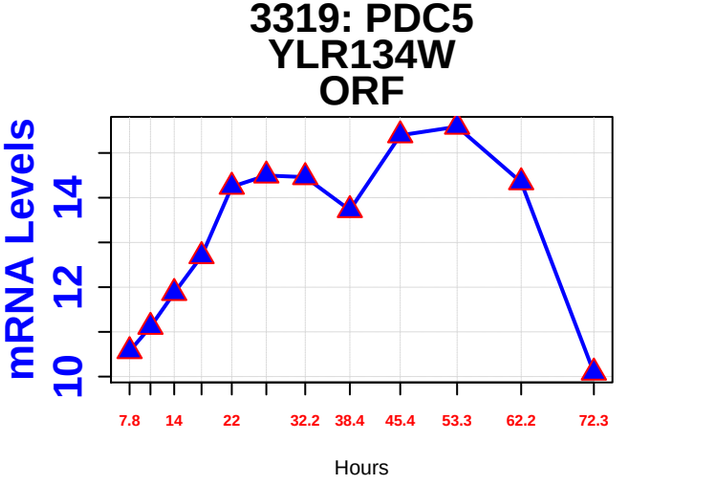

1847: ADH4
YGL256W
ORF
mRNA Levels
50
60
70
Protein Levels
100
200
300
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

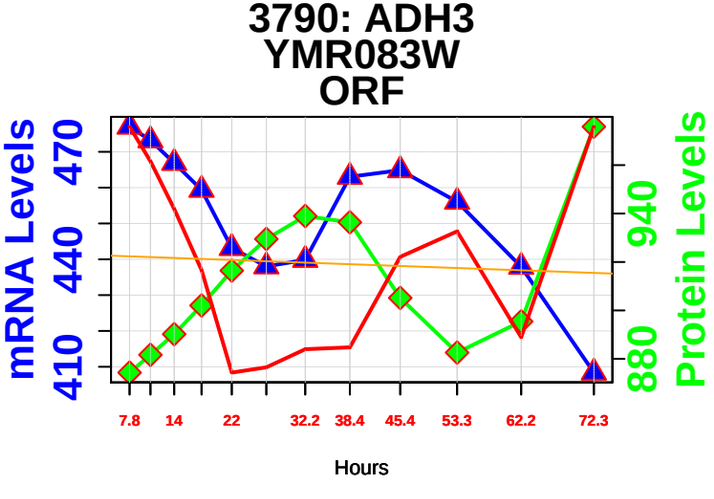

2147: PDC6
YGR087C
ORF
mRNA Levels
4
8
12
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

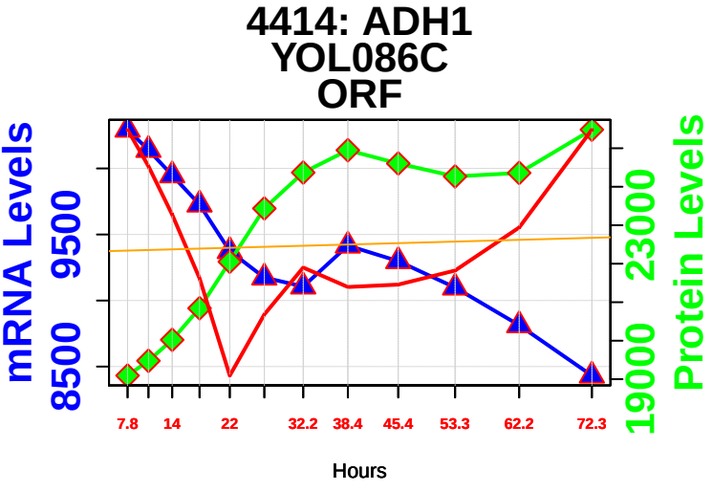

2556: BAT1
YHR208W
ORF
mRNA Levels
920
980
Protein Levels
890
910
930
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours


2875: BAT2
YJR148W
ORF
Protein Levels
140
155
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

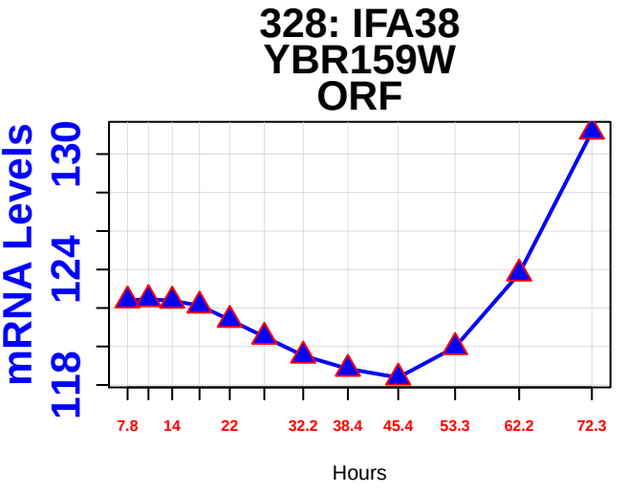

3240: PDC1
YLR044C
ORF
mRNA Levels
5600
5800
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

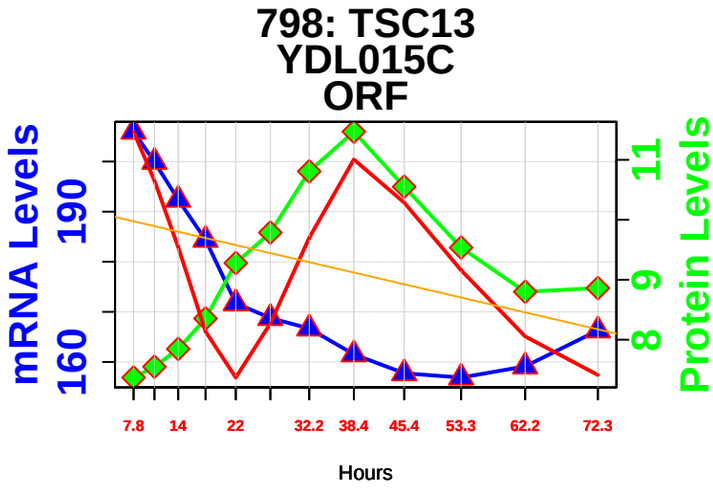

3319: PDC5
YLR134W
ORF
mRNA Levels
10
12
14
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

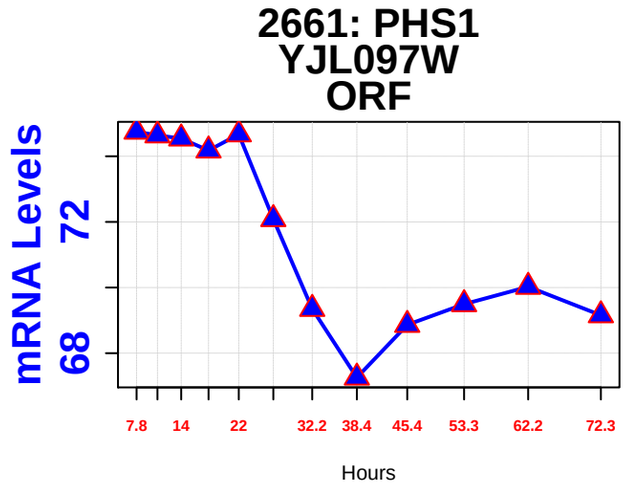

3790: ADH3
YMR083W
ORF
mRNA Levels
410
440
470
Protein Levels
880
940
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours


4414: ADH1
YOL086C
ORF
mRNA Levels
8500
9500
Protein Levels
19000
23000
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

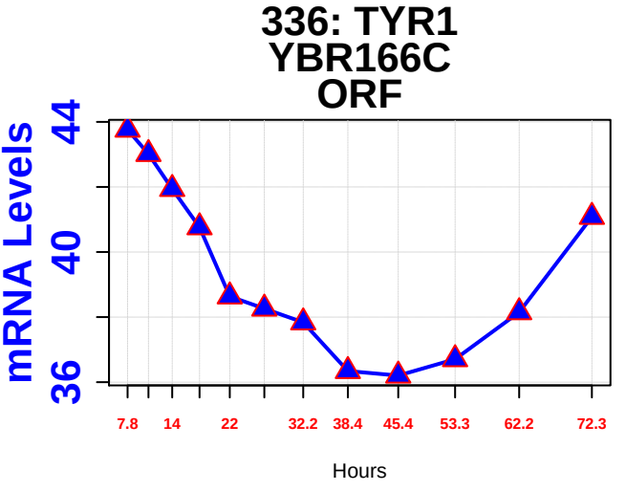
very long chain fatty acid biosynthesis

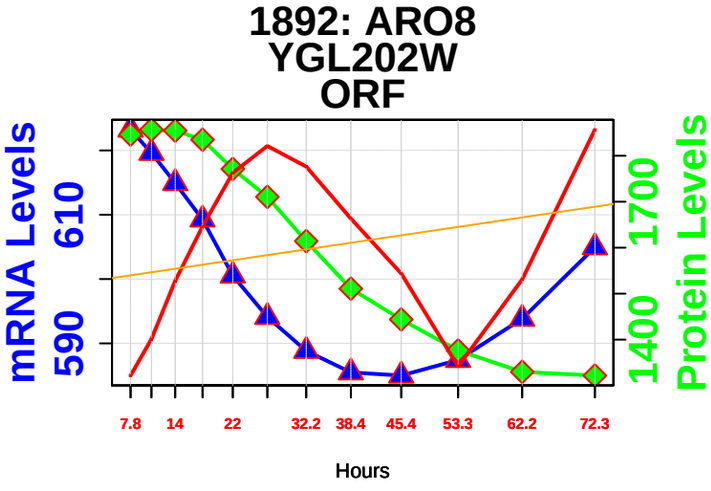


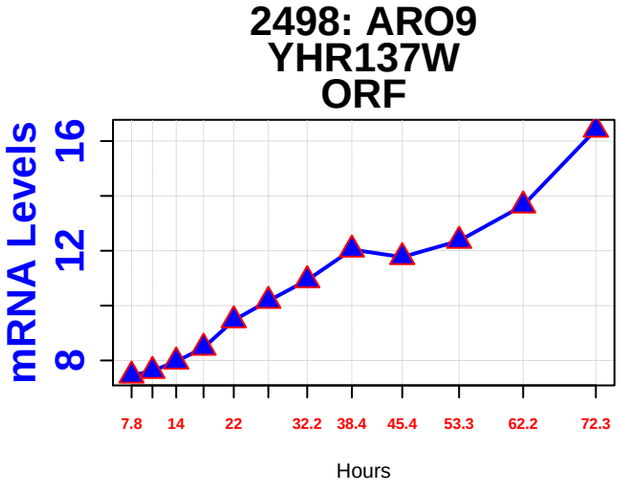


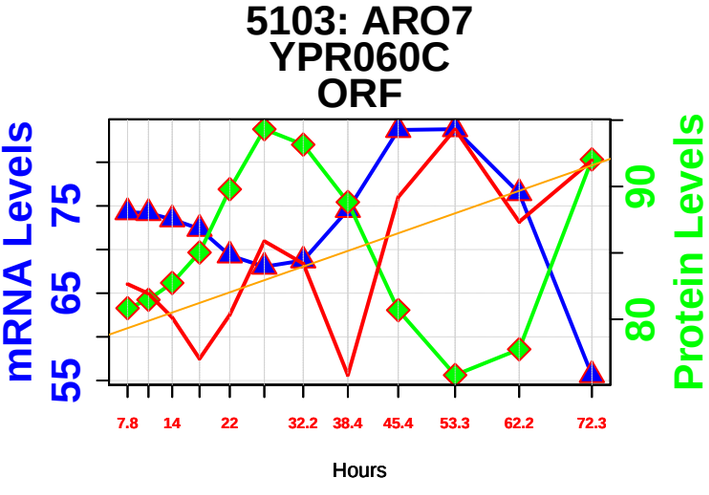


tyrosine biosynthesis

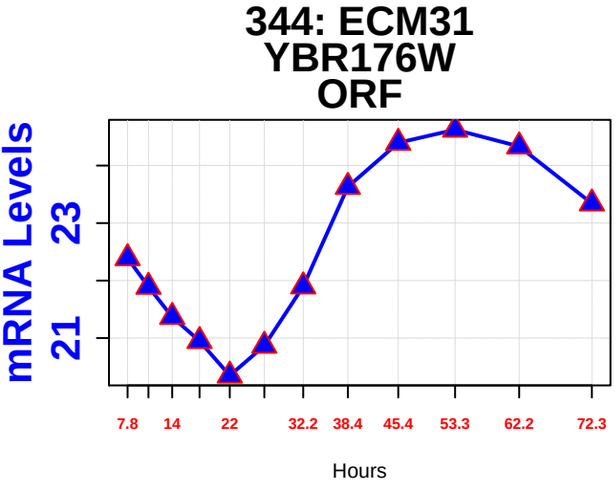


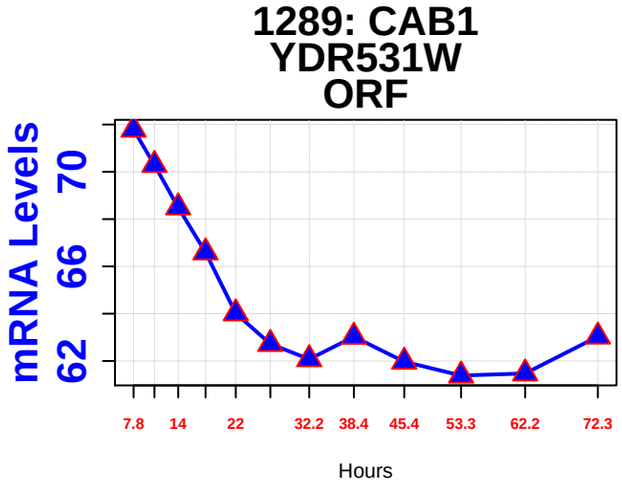


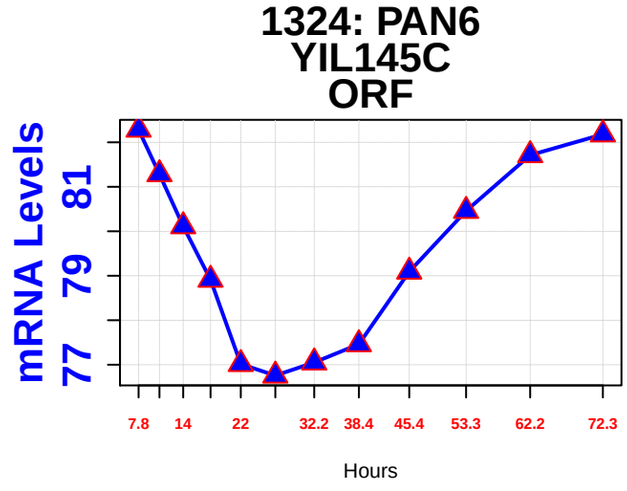


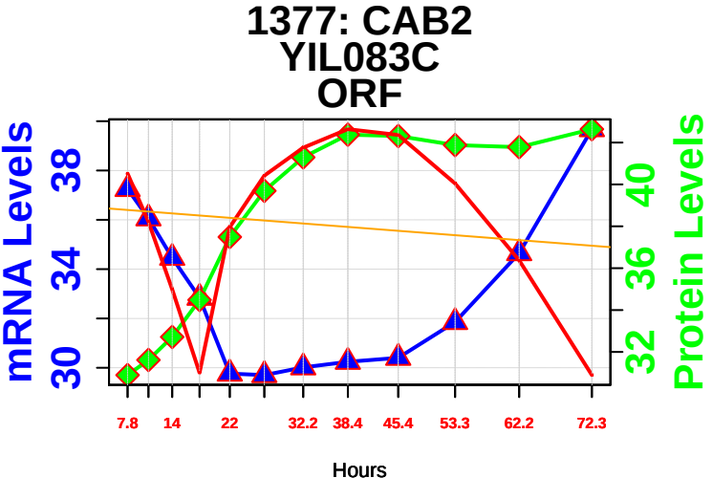


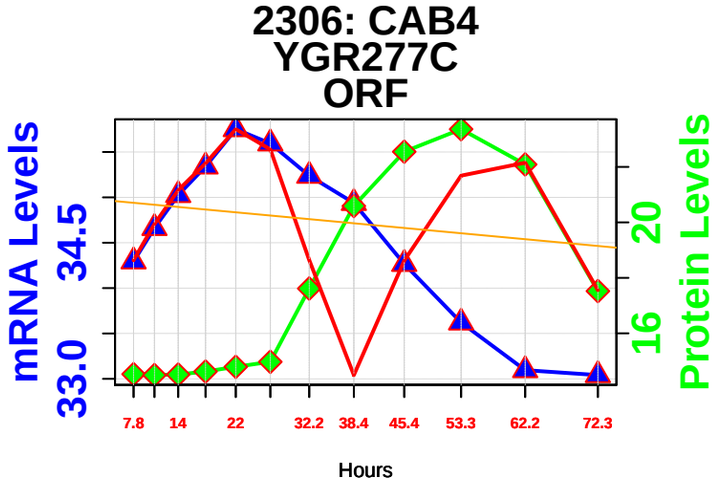
pantothenate and coenzyme A biosynthesis

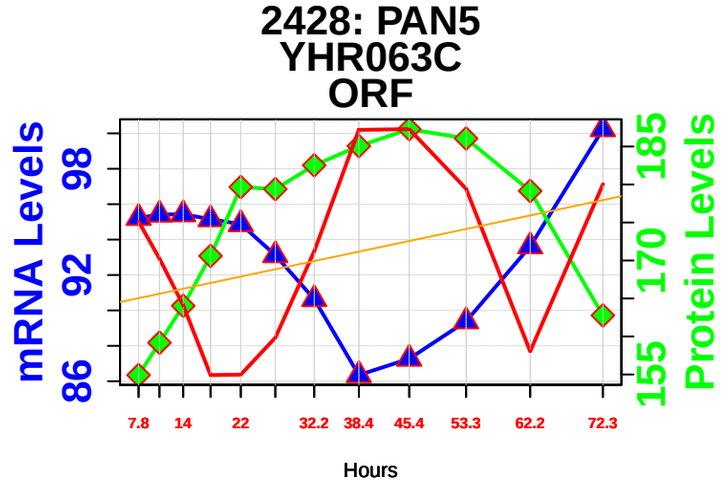


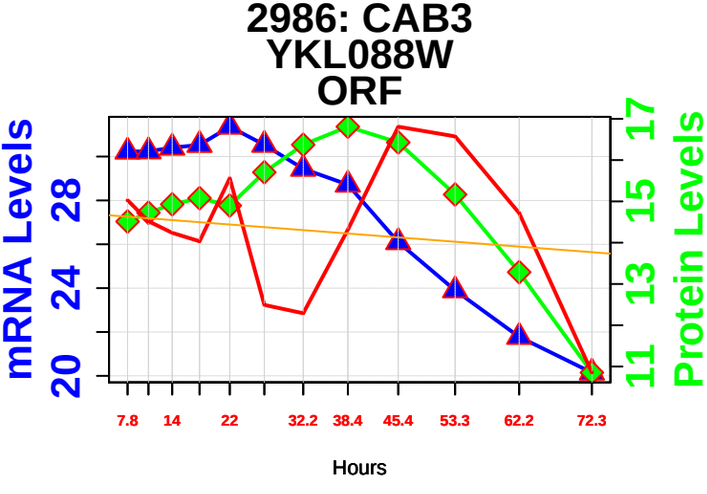


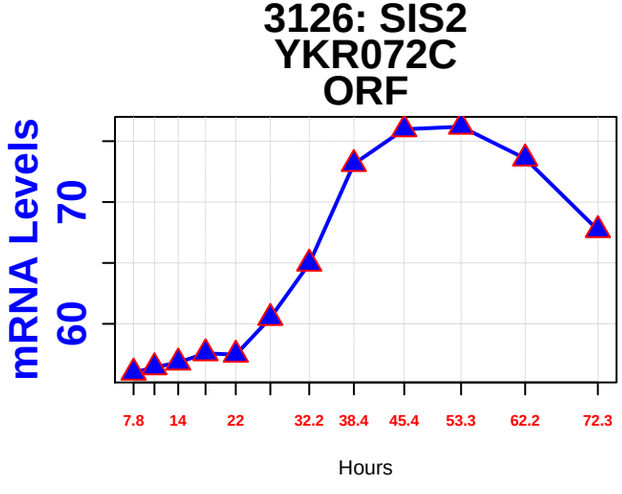


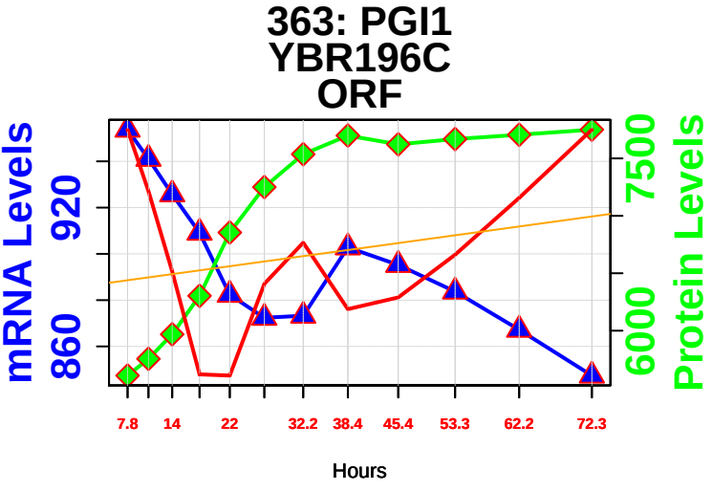


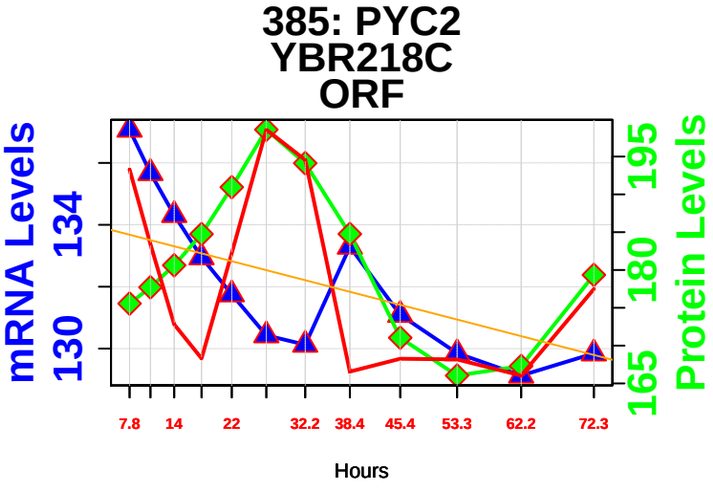


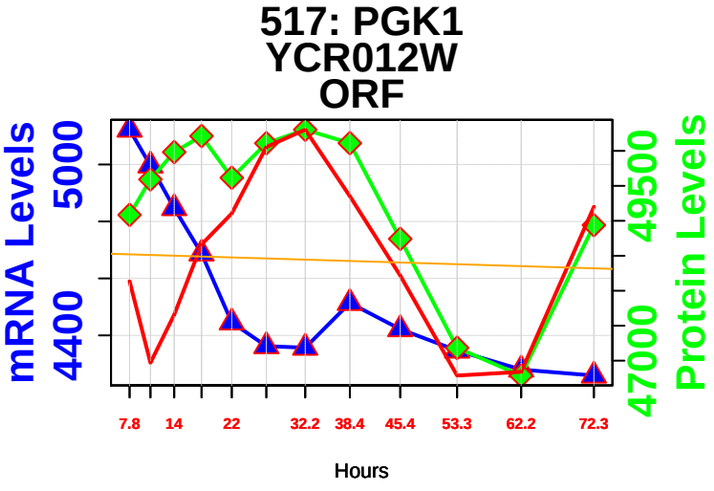


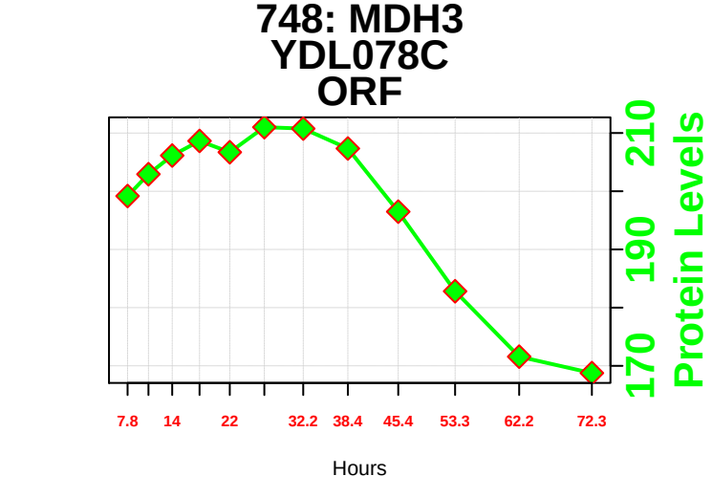


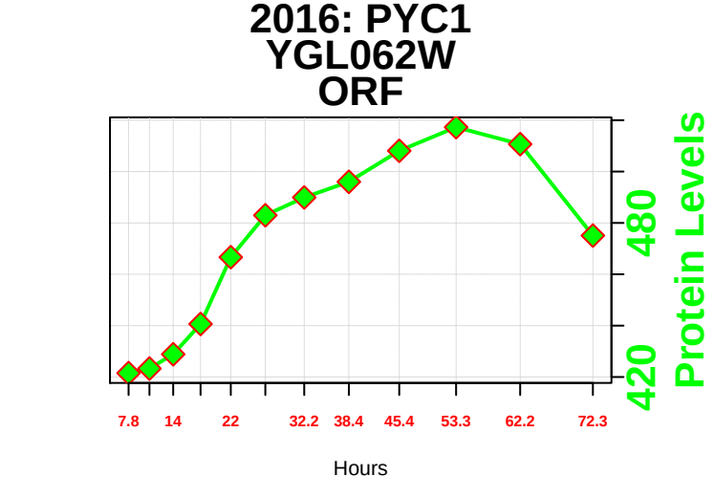


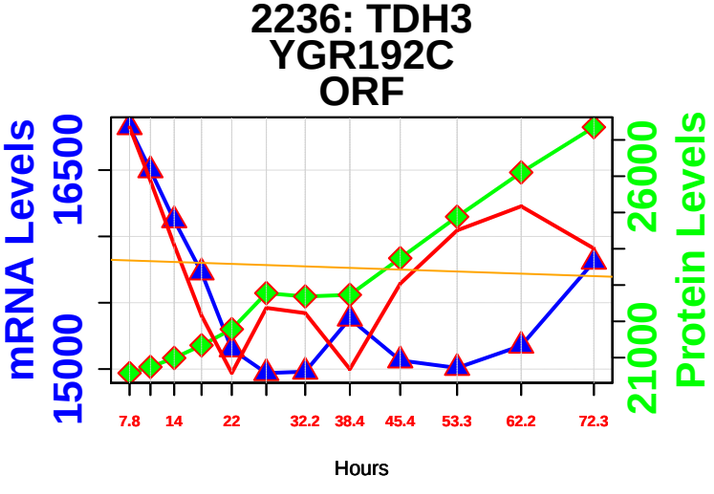

363: PGI1
YBR196C
ORF
mRNA Levels
860
920
Protein Levels
6000
7500
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

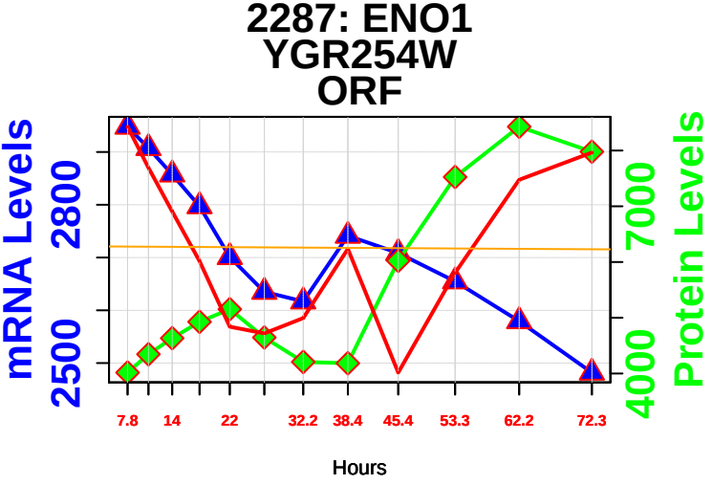

385: PYC2
YBR218C
ORF
mRNA Levels
130
134
Protein Levels
165
180
195
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

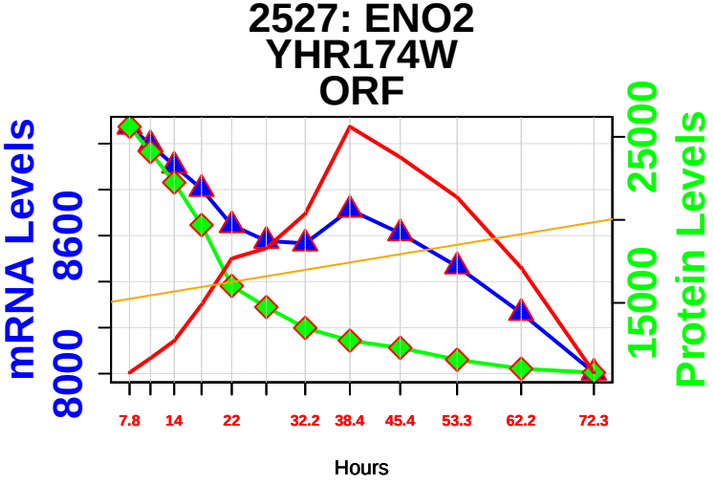

517: PGK1
YCR012W
ORF
mRNA Levels
4400
5000
Protein Levels
47000
49500
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

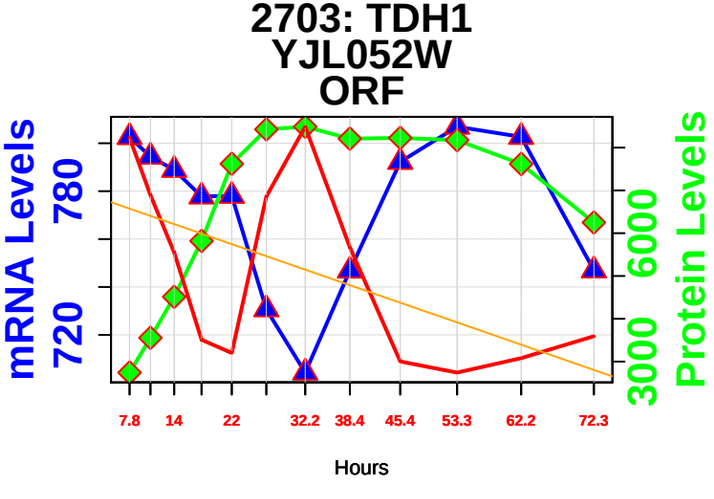

748: MDH3
YDL078C
ORF
Protein Levels
170
190
210
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours


2016: PYC1
YGL062W
ORF
Protein Levels
420
480
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours


2236: TDH3
YGR192C
ORF
mRNA Levels
15000
16500
Protein Levels
21000
26000
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

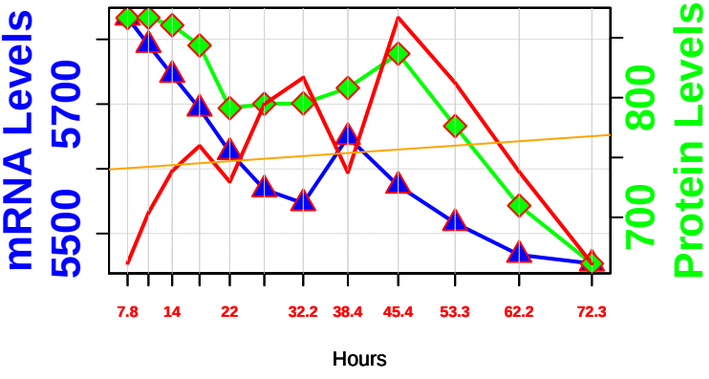

2287: ENO1
YGR254W
ORF
mRNA Levels
2500
2800
Protein Levels
4000
7000
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours


2527: ENO2
YHR174W
ORF
mRNA Levels
8000
8600
Protein Levels
15000
25000
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

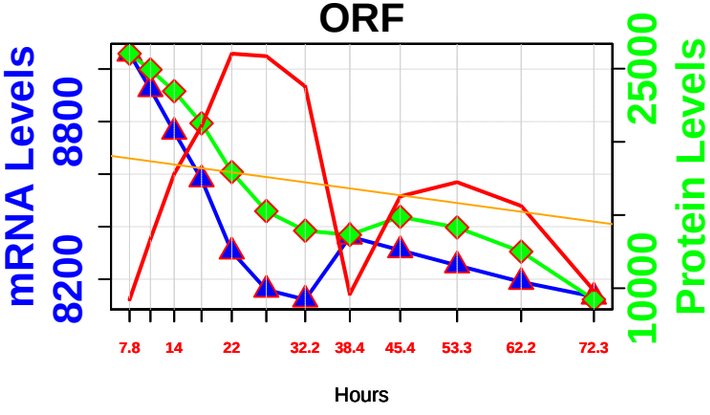

2703: TDH1
YJL052W
ORF
mRNA Levels
720
780
Protein Levels
3000
6000
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

gluconeogenesis

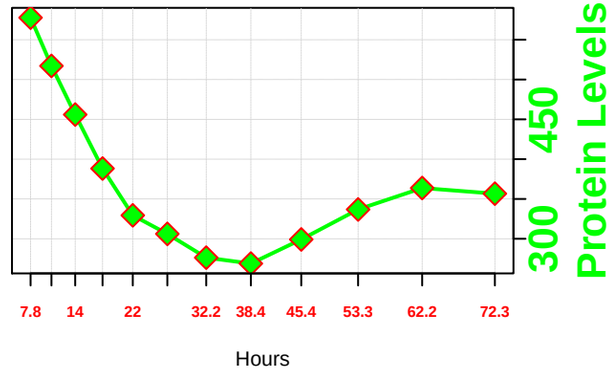
2749: TDH2 YJR009C ORF



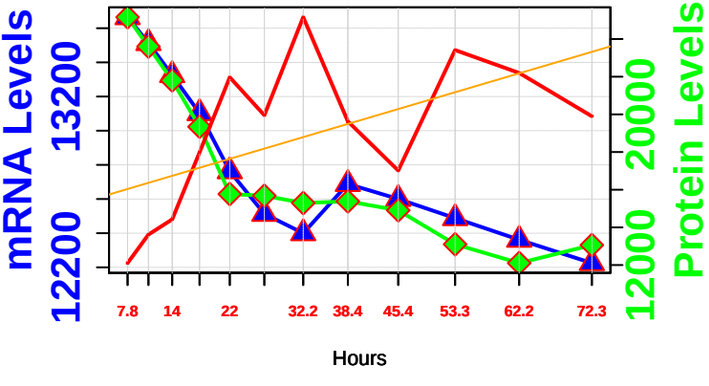
2937: GPM1 YKL152C ORF



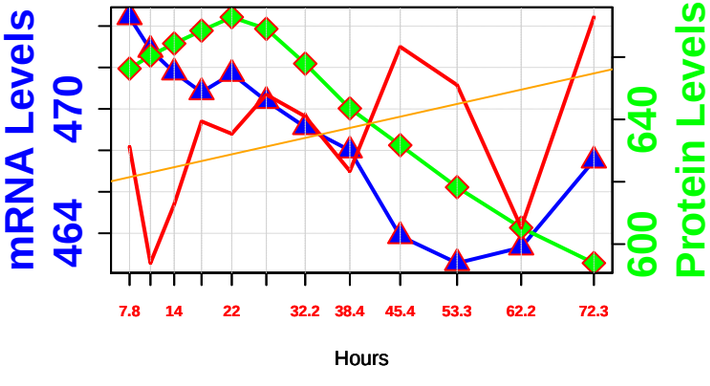
2988: MDH1 YKL085W ORF



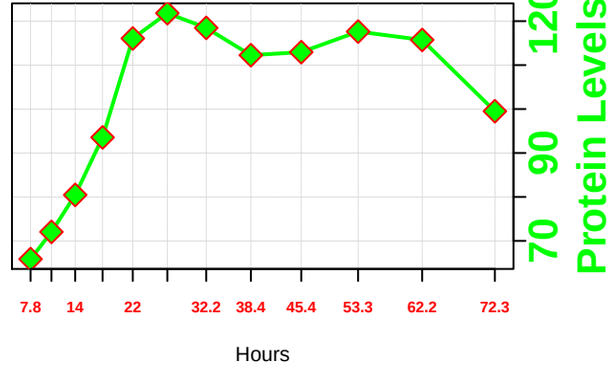
3008: FBA1 YKL060C ORF



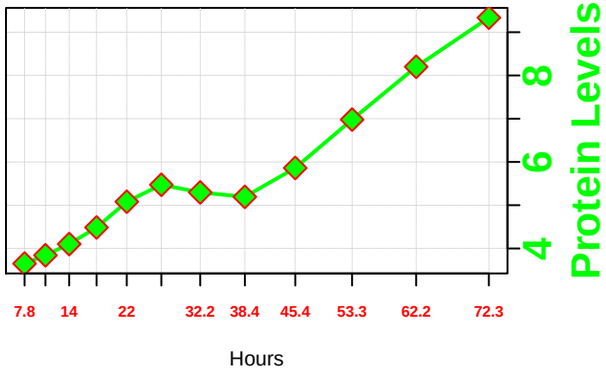
3037: MAE1 YKL029C ORF



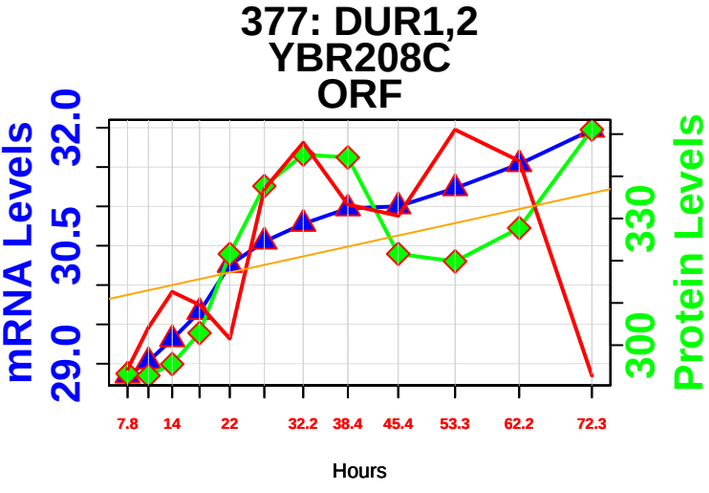
3146: PCK1 YKR097W ORF

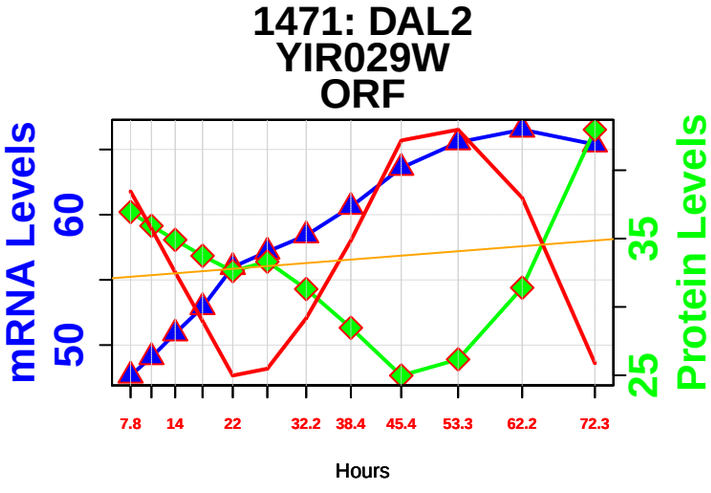


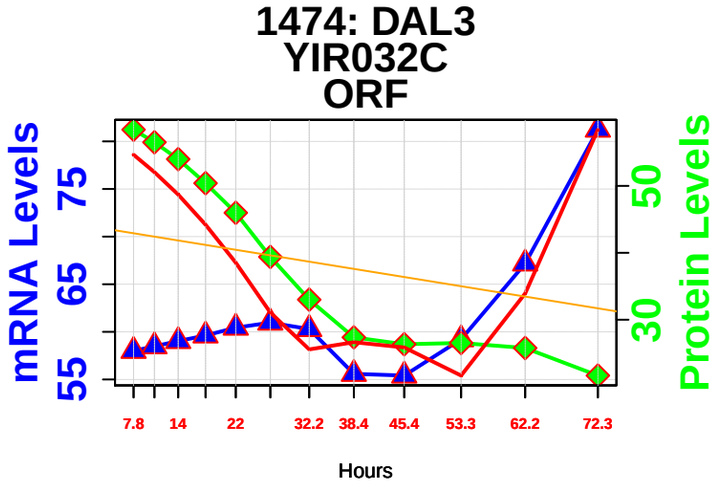
4379: MDH2 YOL126C ORF

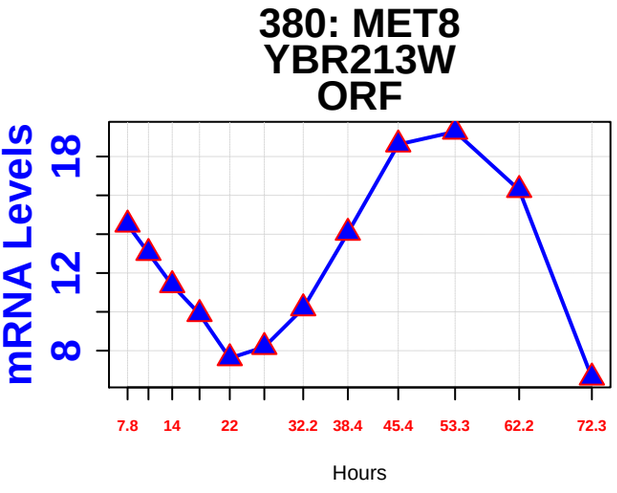


allantoin degradation

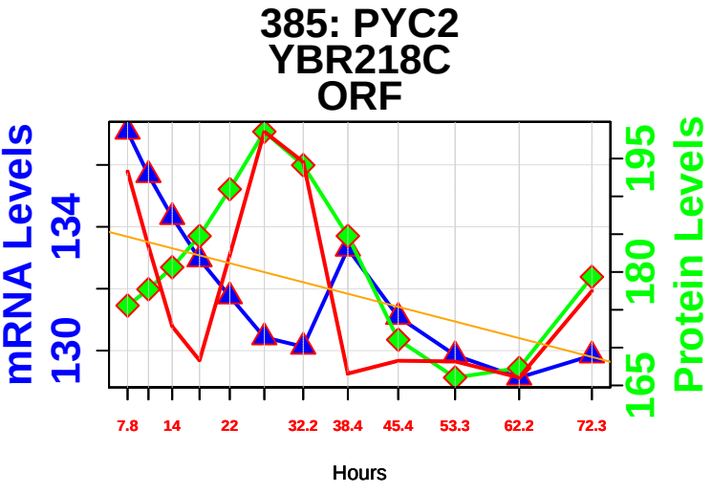


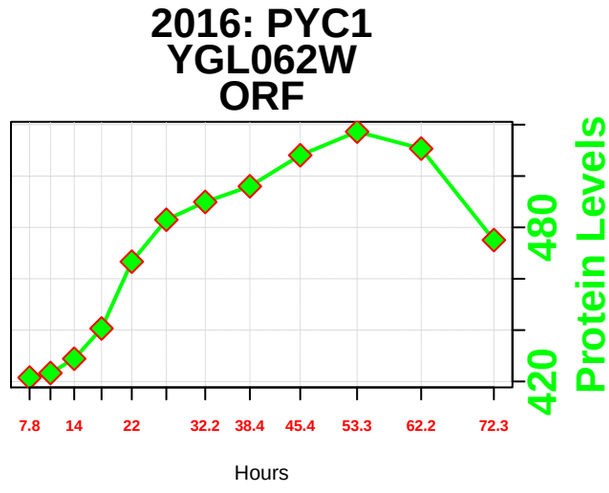


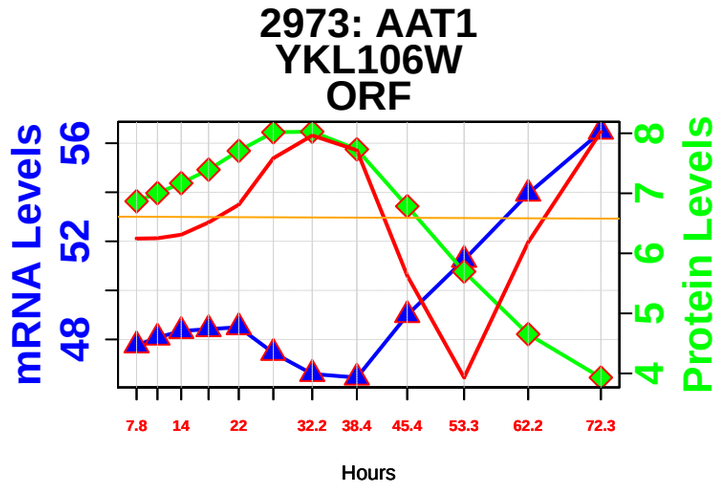


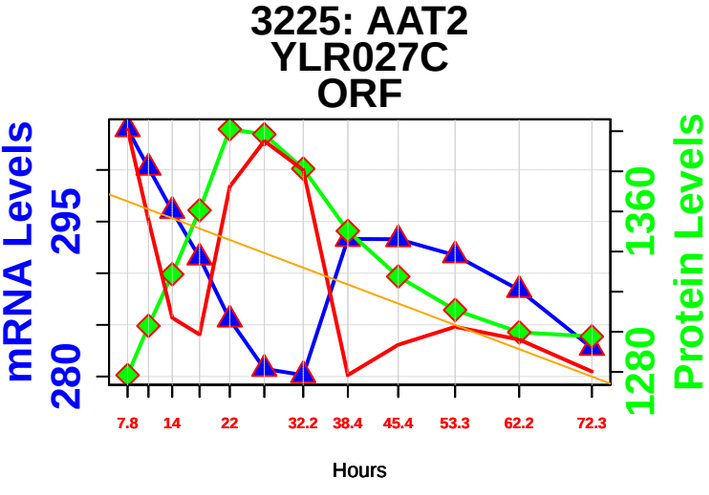

380: MET8
YBR213W
ORF
mRNA Levels
8
12
18
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

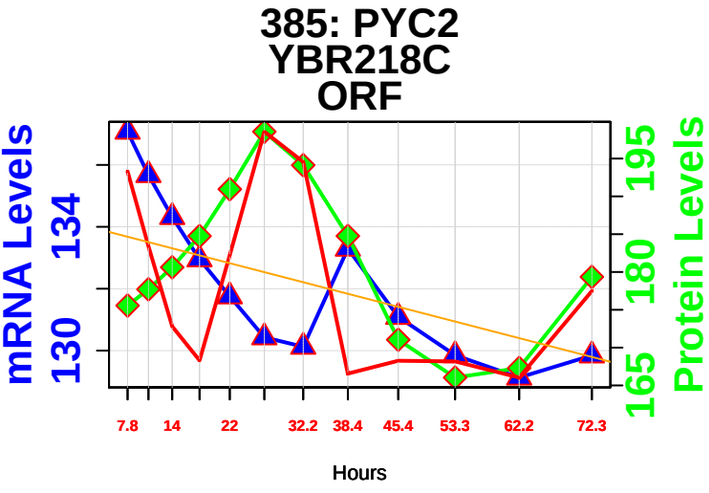
aspartate biosynthesis

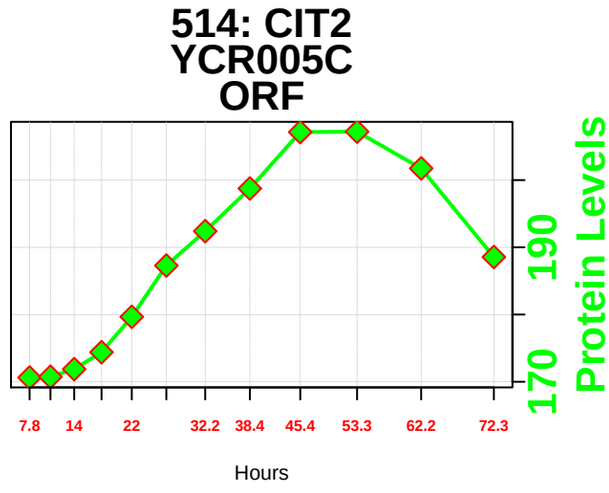


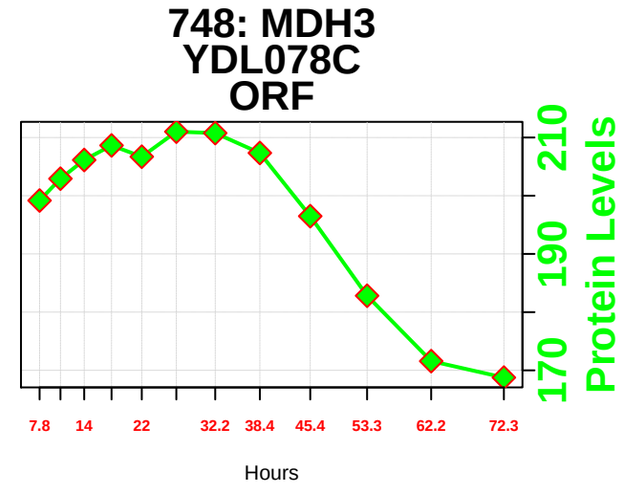


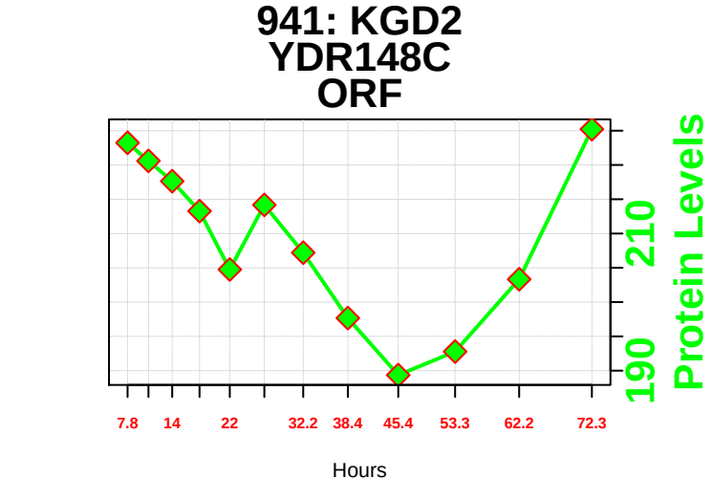


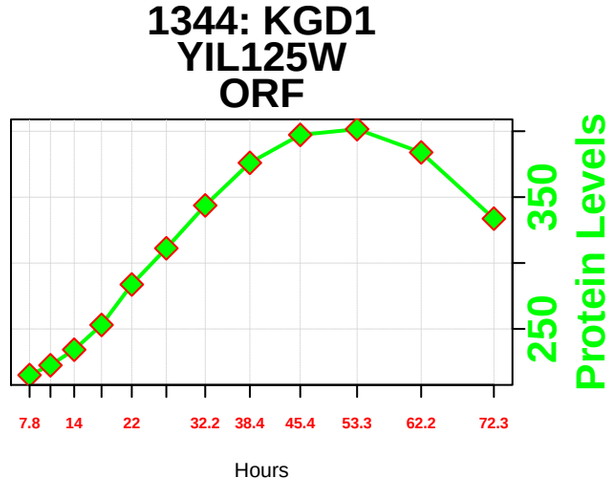


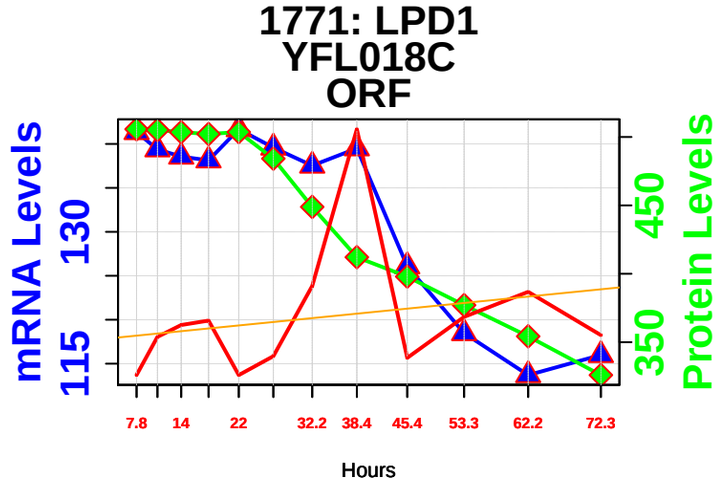

385: PYC2
YBR218C
ORF
mRNA Levels
130
134
165
180
195
Protein Levels
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

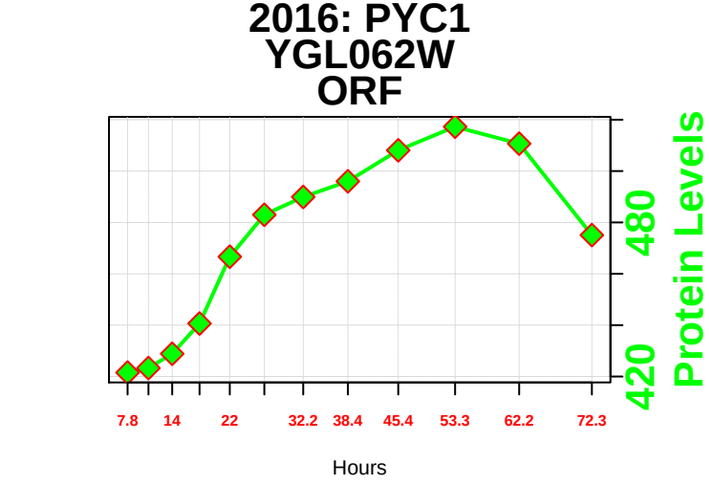

514: CIT2
YCR005C
ORF
170
190
Protein Levels
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

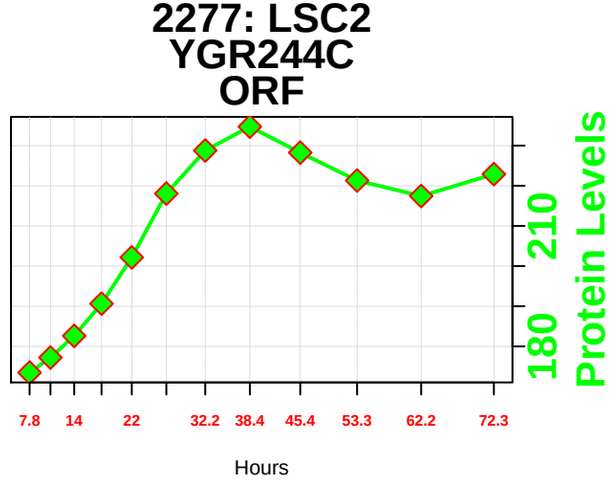

748: MDH3
YDL078C
ORF
170
190
210
Protein Levels
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

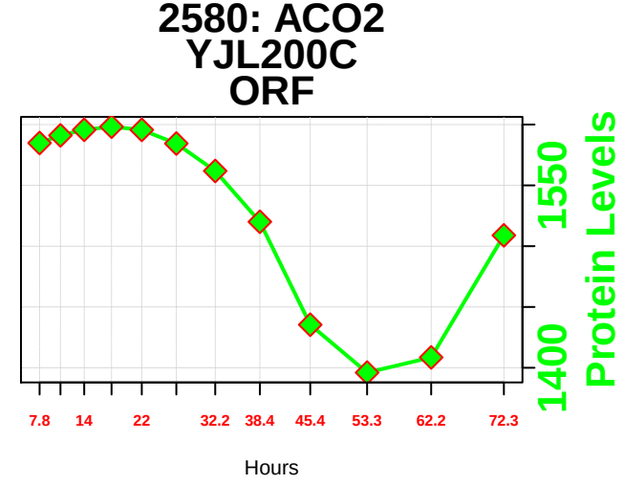

941: KGD2
YDR148C
ORF
190
210
Protein Levels
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours


1344: KGD1
YIL125W
ORF
250
350
Protein Levels
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

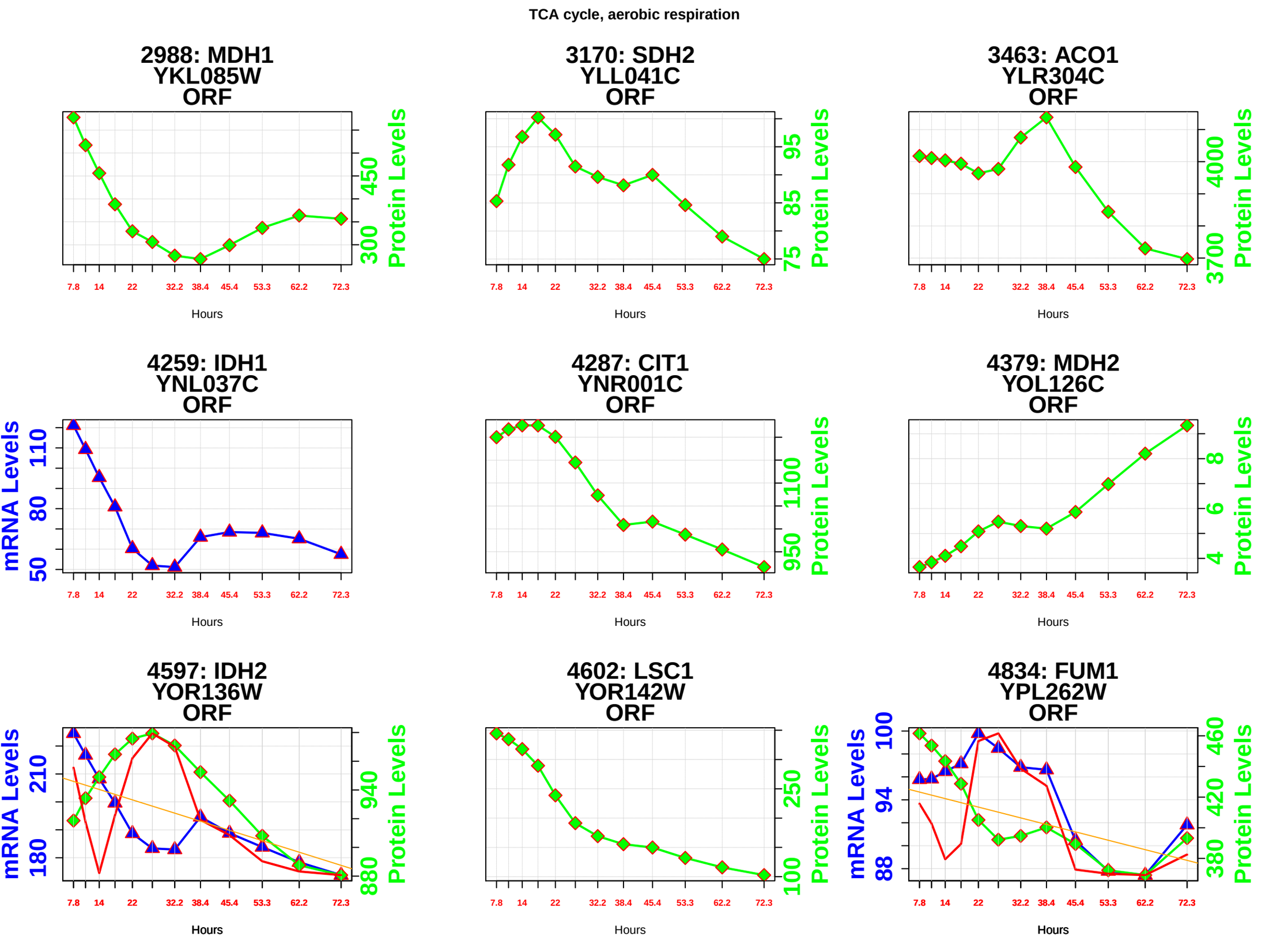

1771: LPD1
YFL018C
ORF
mRNA Levels
115
130
350
450
Protein Levels
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours


2016: PYC1
YGL062W
ORF
420
480
Protein Levels
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours


2277: LSC2
YGR244C
ORF
180
210
Protein Levels
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

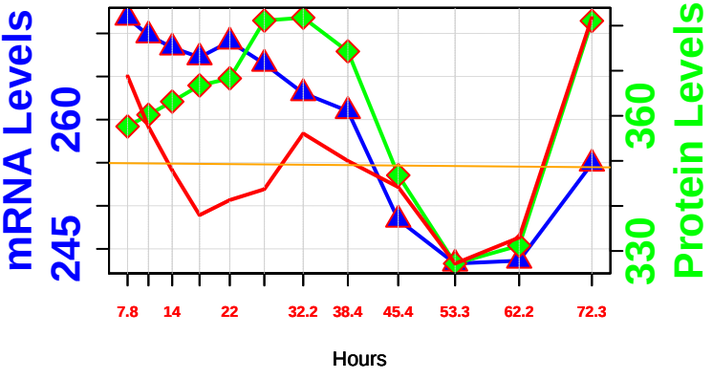

2580: ACO2
YJL200C
ORF
1400
1550
Protein Levels
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

TCA cycle, aerobic respiration

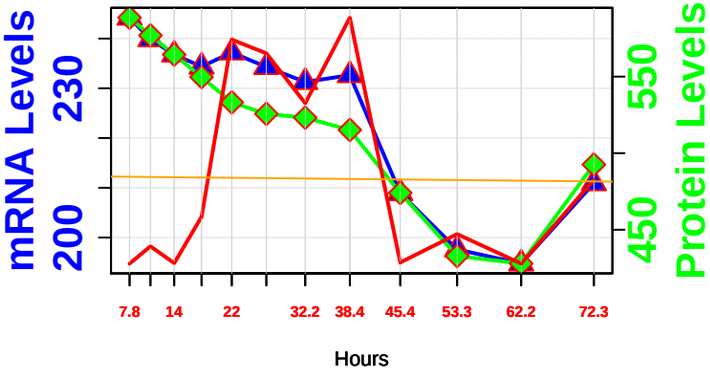


pyruvate dehydrogenase complex

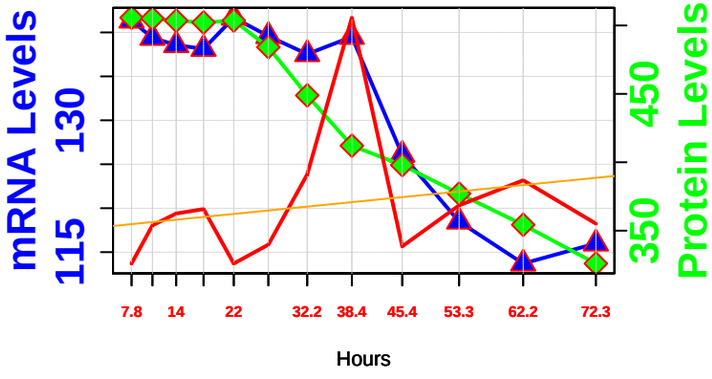
388: PDB1
YBR221C
ORF



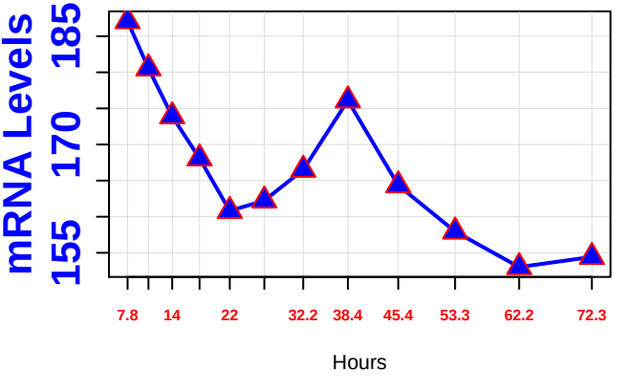
1728: PDA1
YER178W
ORF

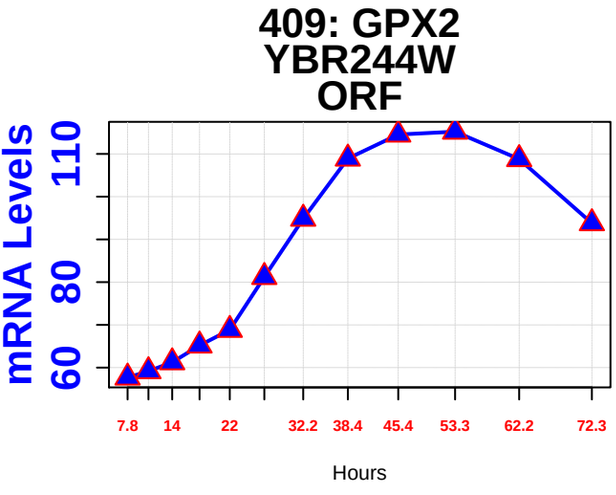


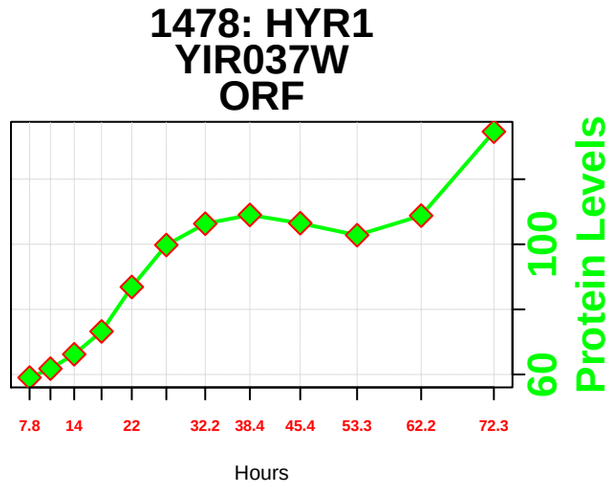
1771: LPD1
YFL018C
ORF

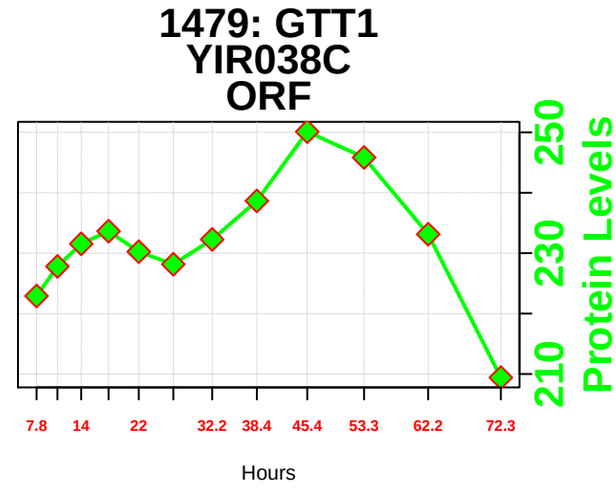


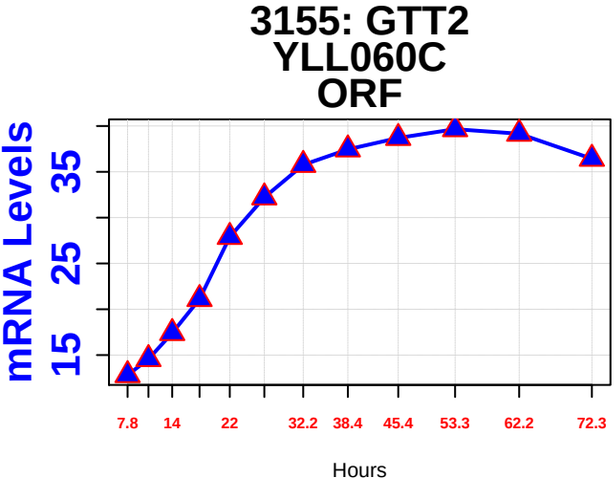
4227: LAT1
YNL071W
ORF

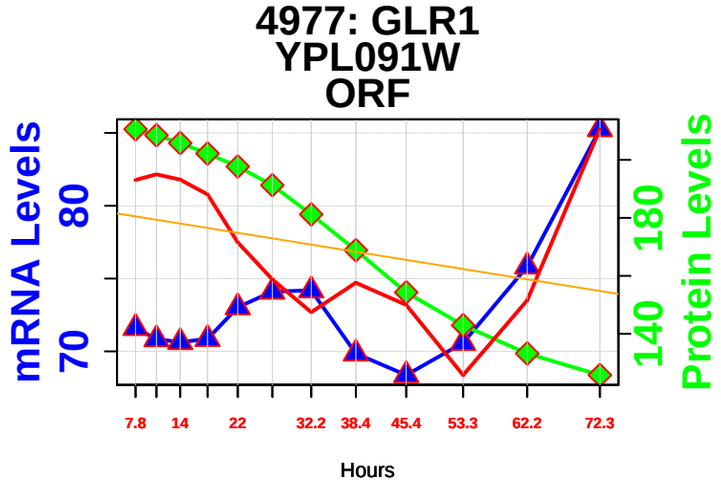



409: GPX2
YBR244W
ORF
mRNA Levels
60
80
110
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

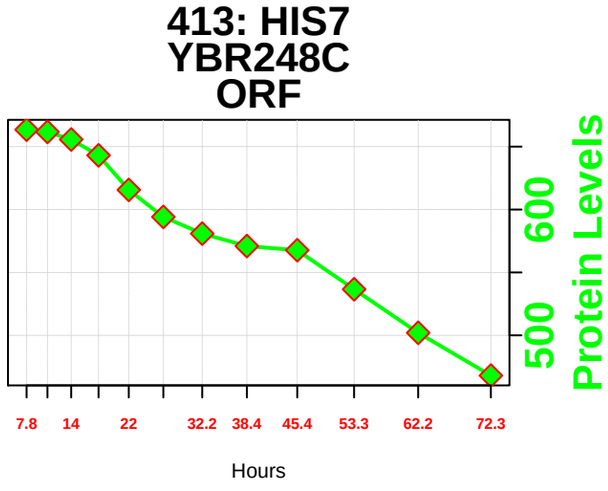

1478: HYR1
YIR037W
ORF
60
100
Protein Levels
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

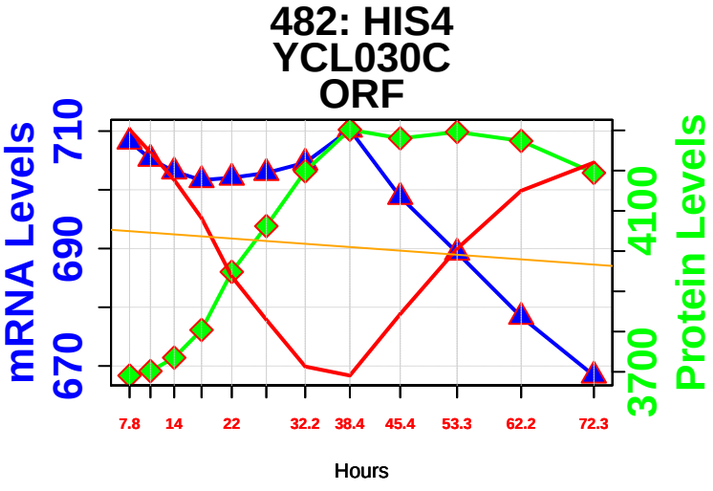

1479: GTT1
YIR038C
ORF
210
230
250
Protein Levels
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

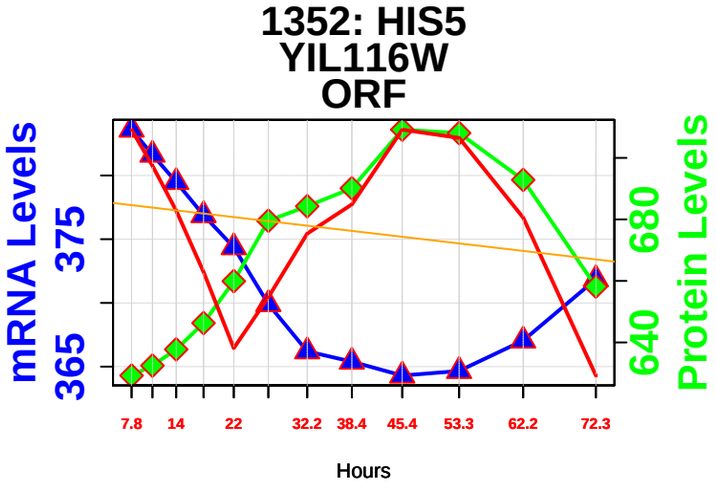

3155: GTT2
YLL060C
ORF
mRNA Levels
15
25
35
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

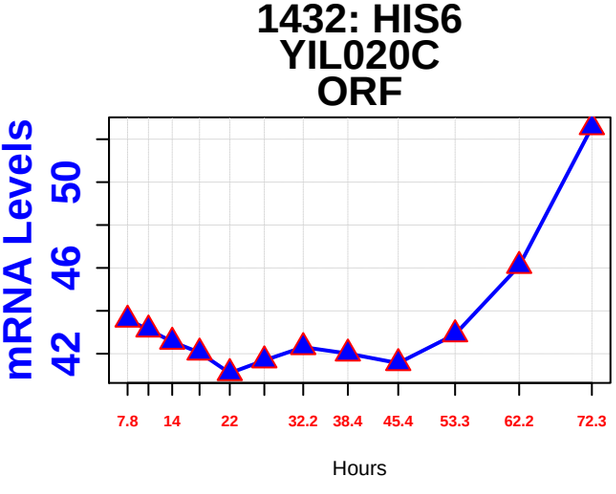

4977: GLR1
YPL091W
ORF
mRNA Levels
70
80
140
180
Protein Levels
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

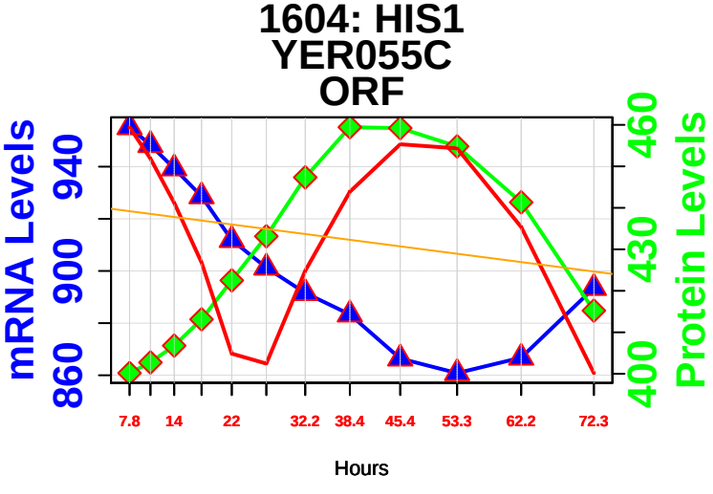
histidine biosynthesis

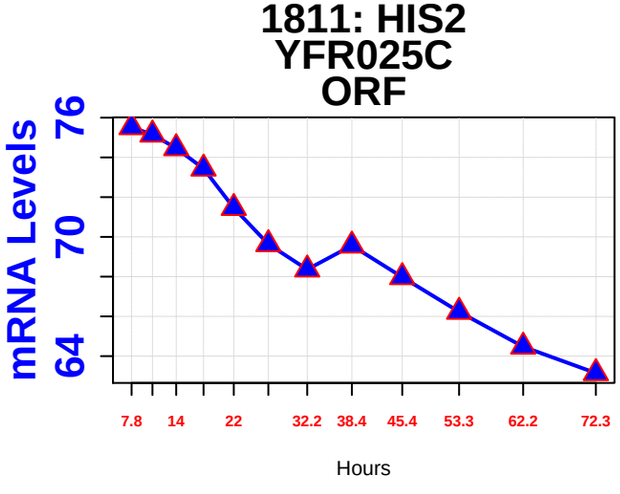


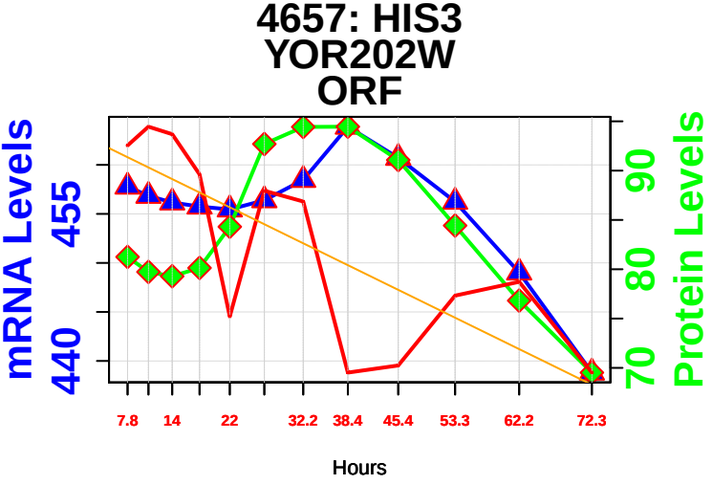




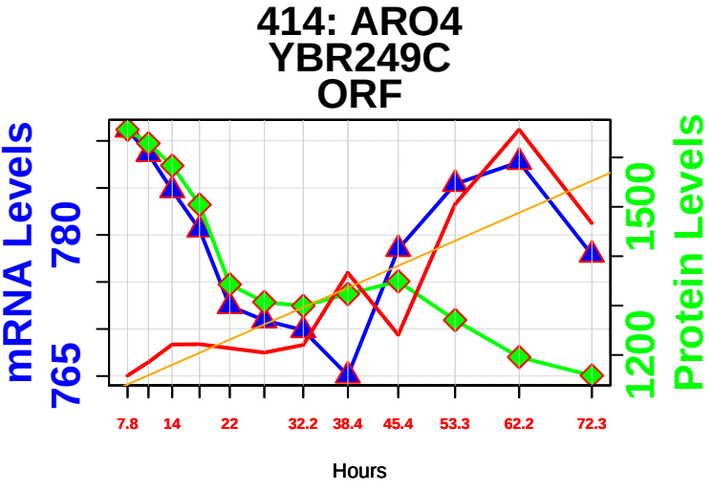


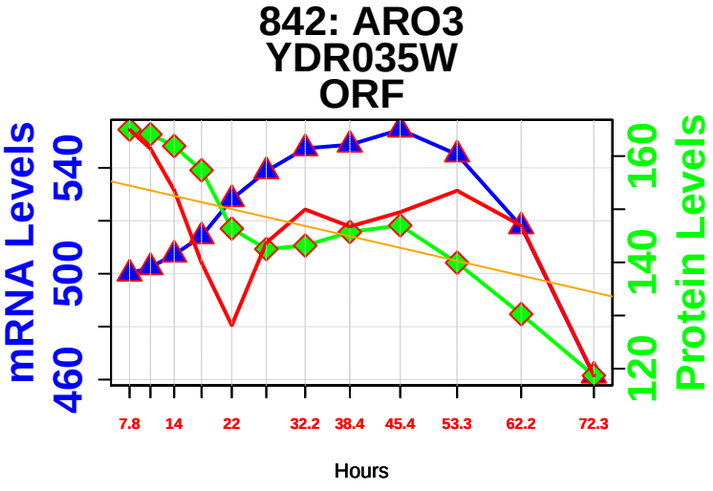


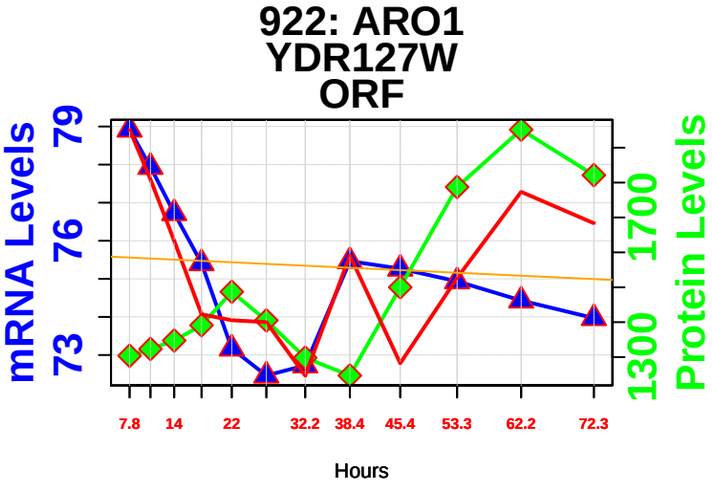


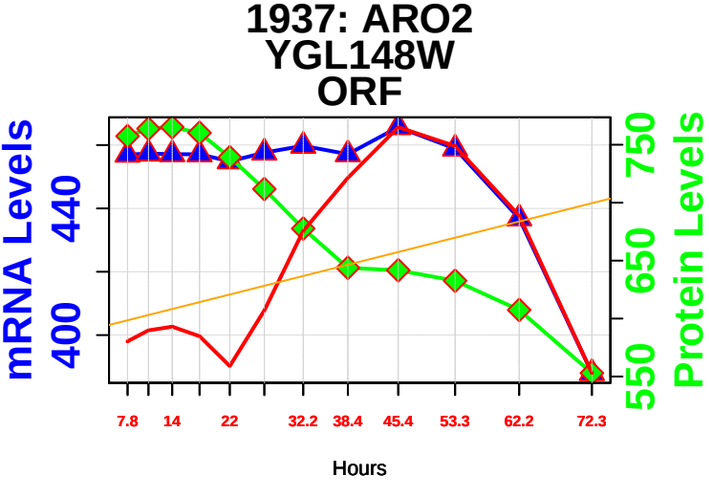


chorismate biosynthesis

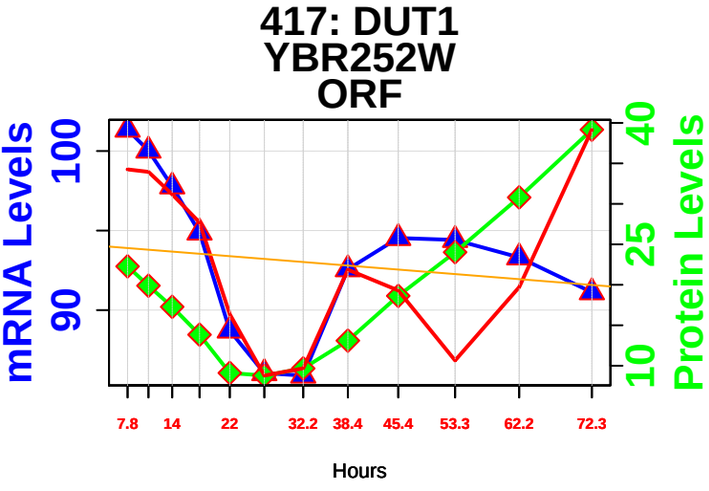


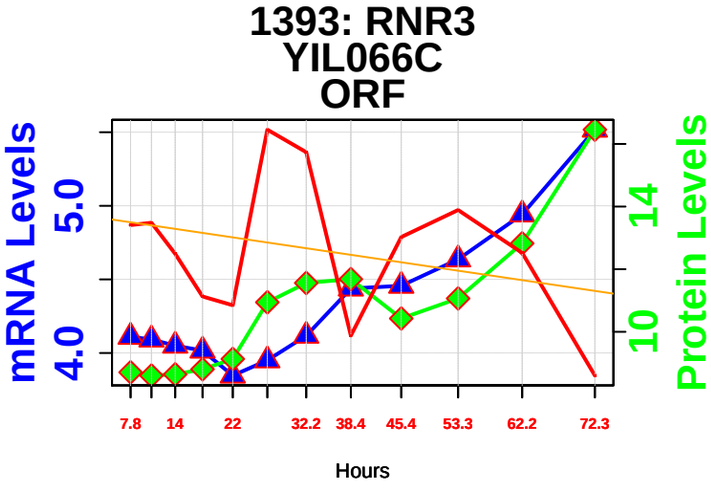


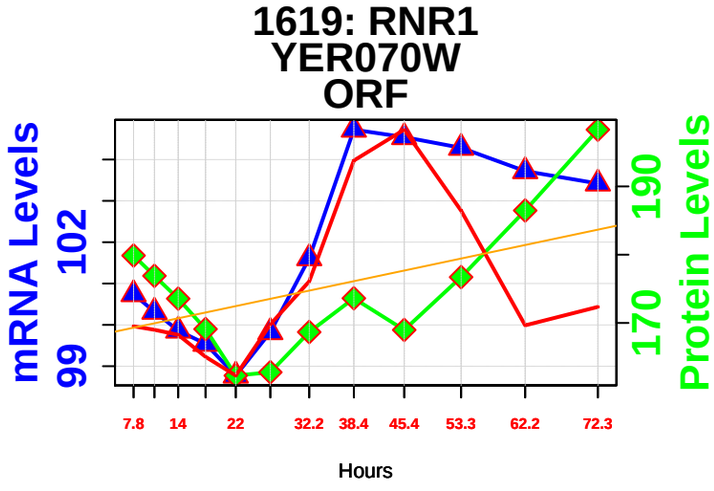


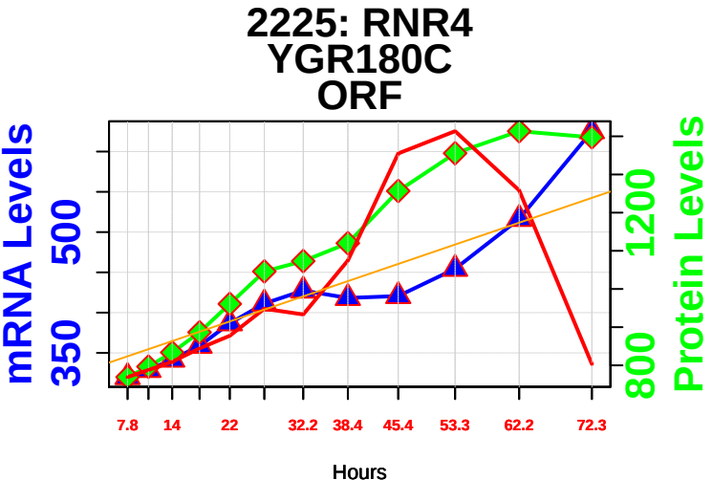


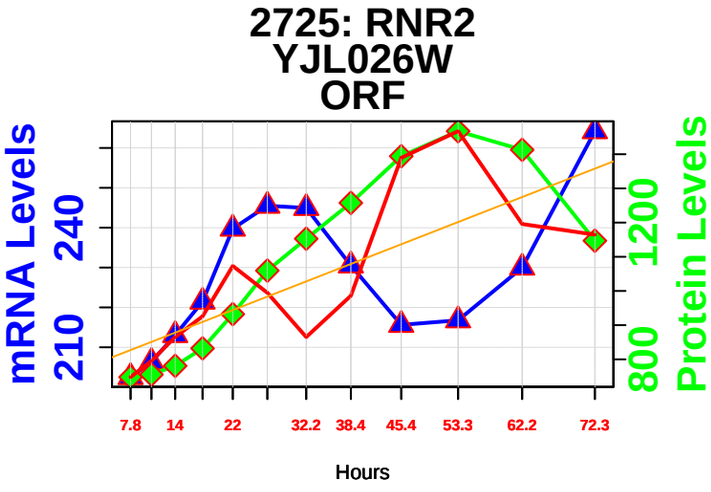
de novo biosynthesis of pyrimidine deoxyribonucleotides

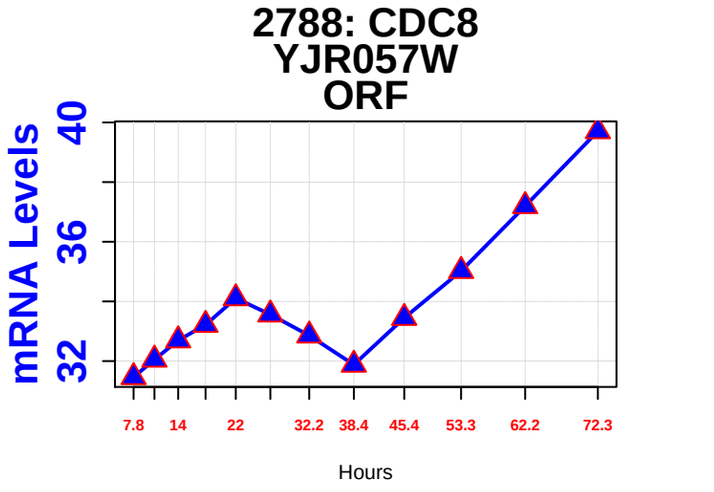


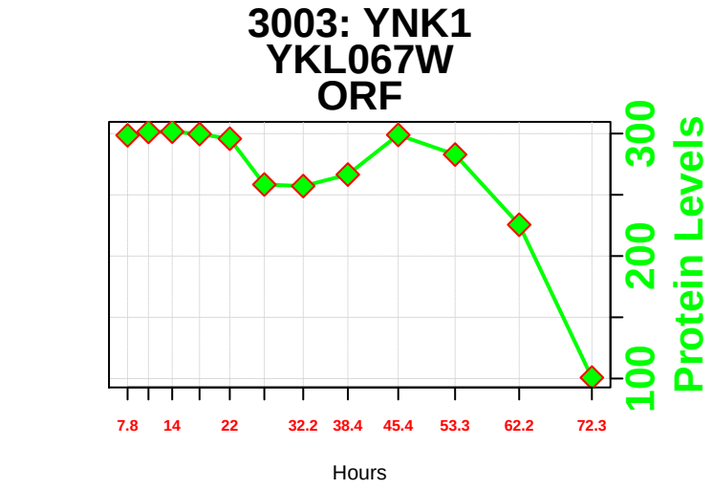


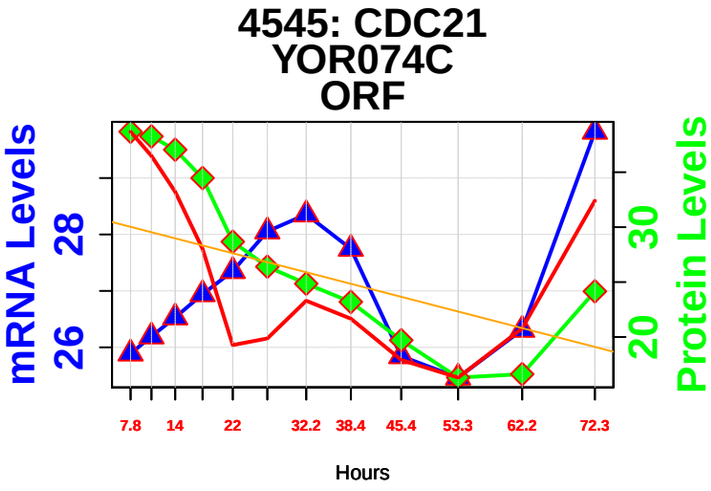




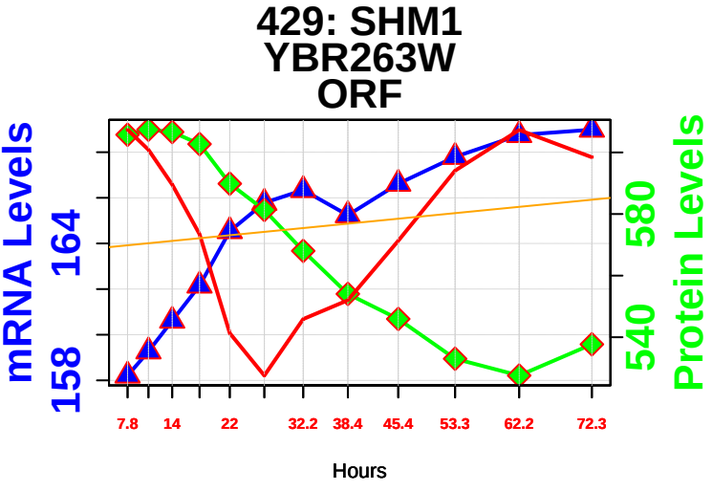


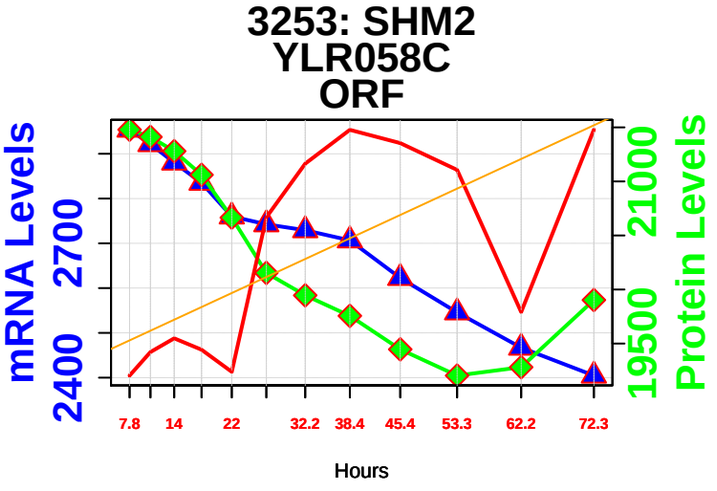




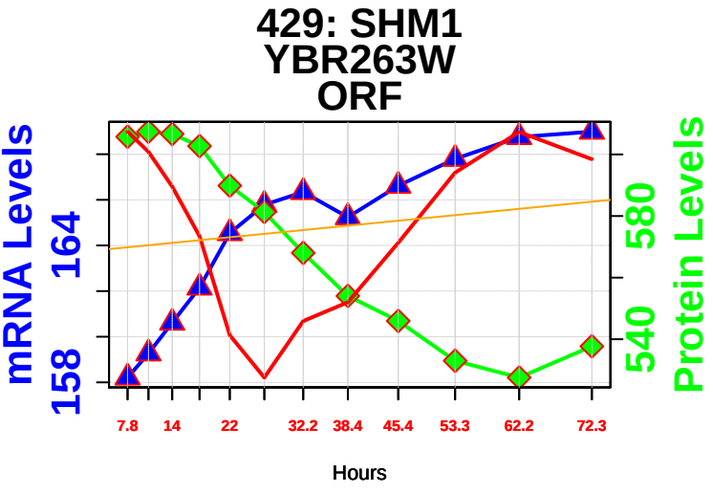


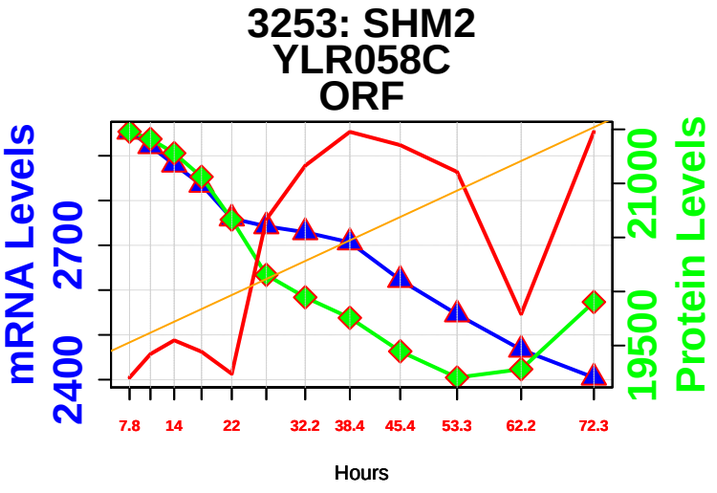
glycine biosynthesis from serine

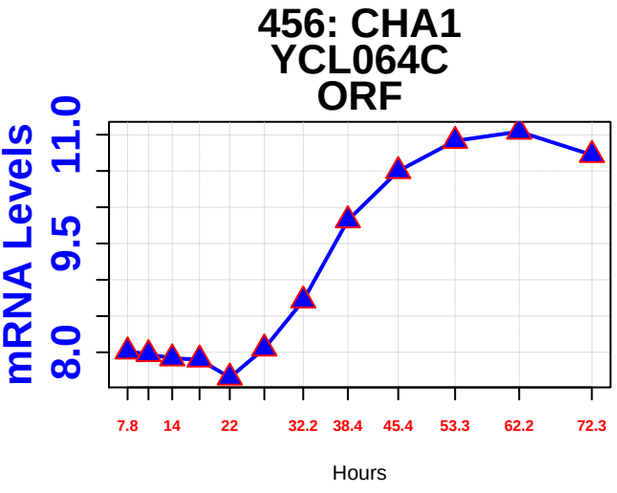




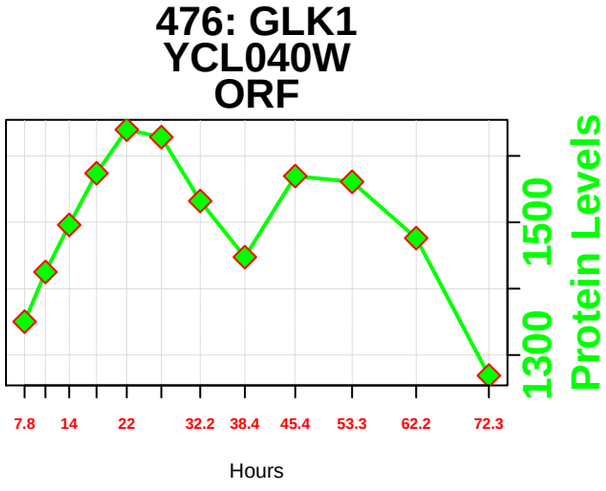
serine biosynthesis from glyoxylate

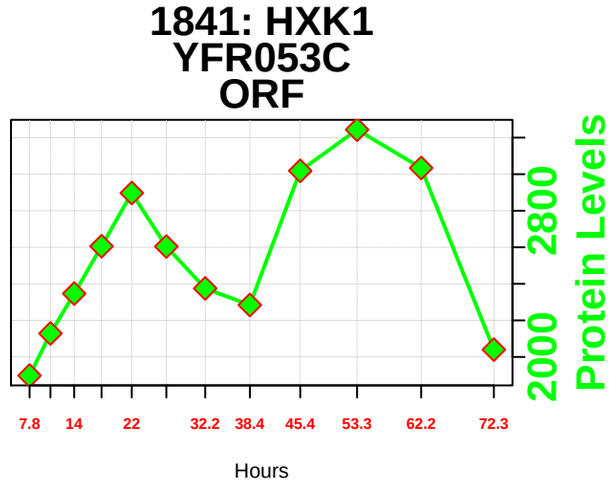


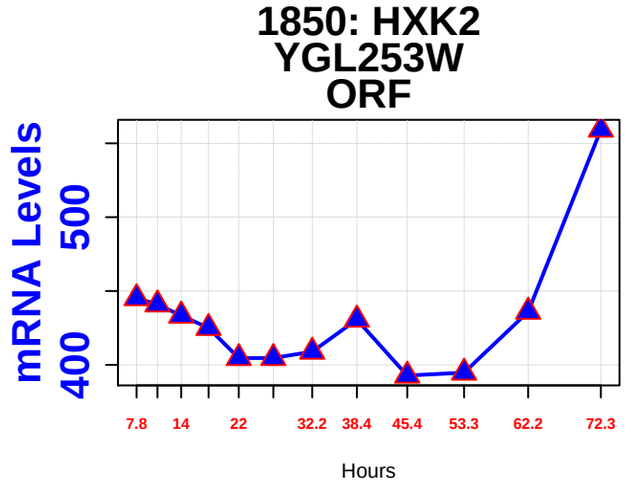



456: CHA1
YCL064C
ORF
mRNA Levels
8.0
9.5
11.0
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

glucose−6−phosphate biosynthesis

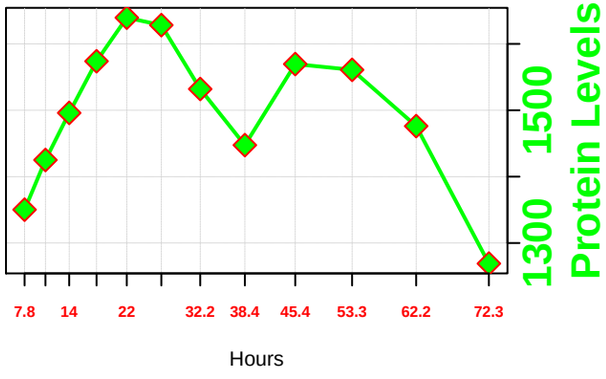




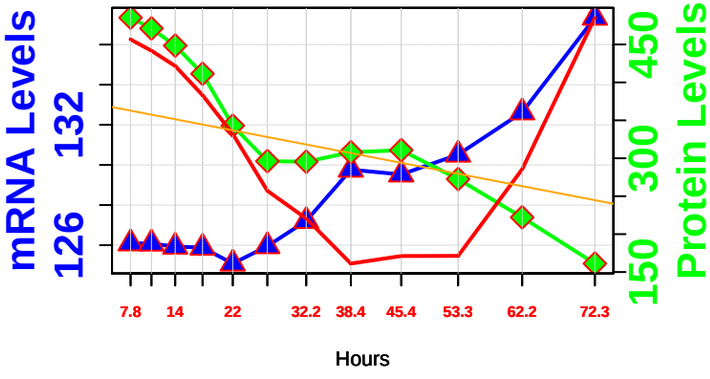


mannose degradation

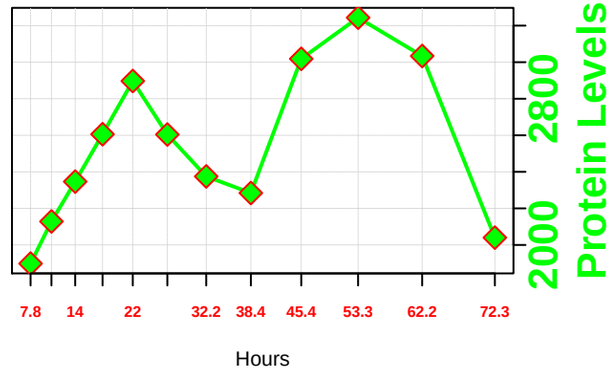
476: GLK1 YCL040W ORF



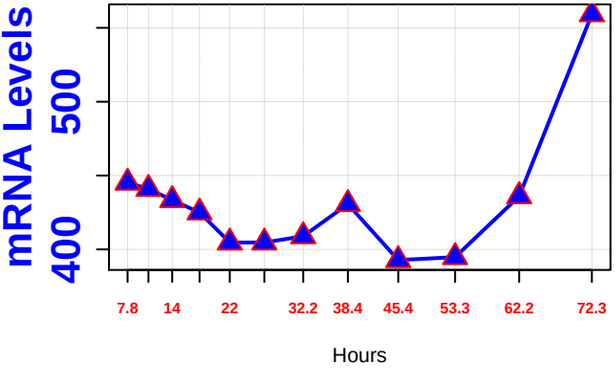
1551: PMI40 YER003C ORF

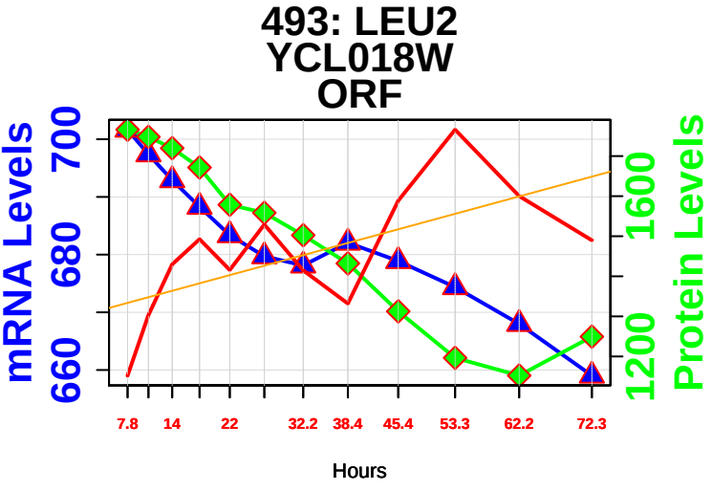


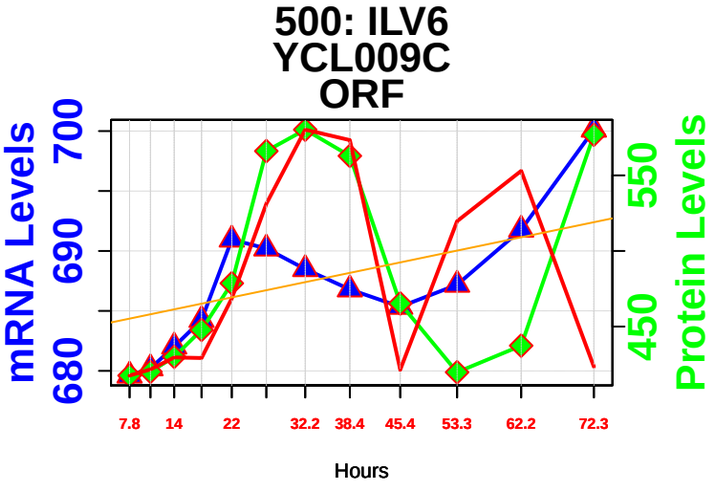
1841: HXK1 YFR053C ORF

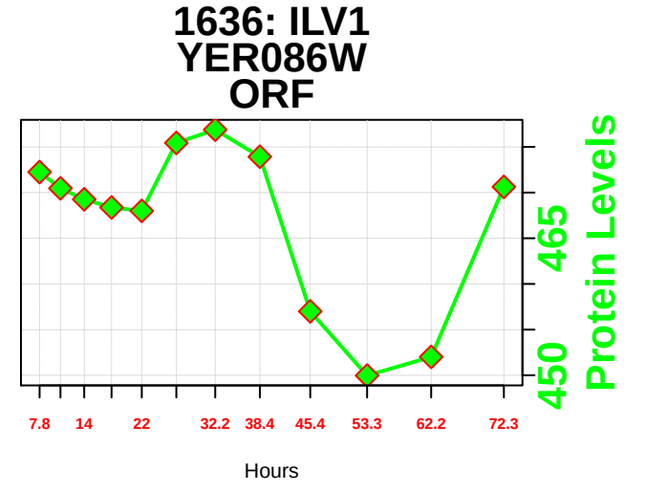


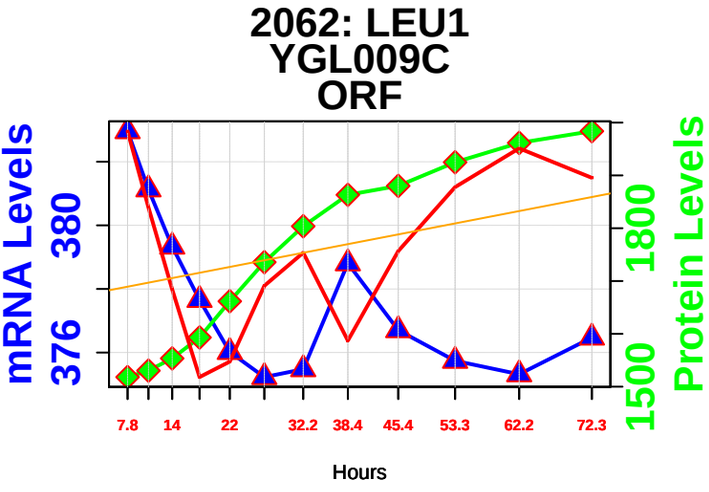
1850: HXK2 YGL253W ORF

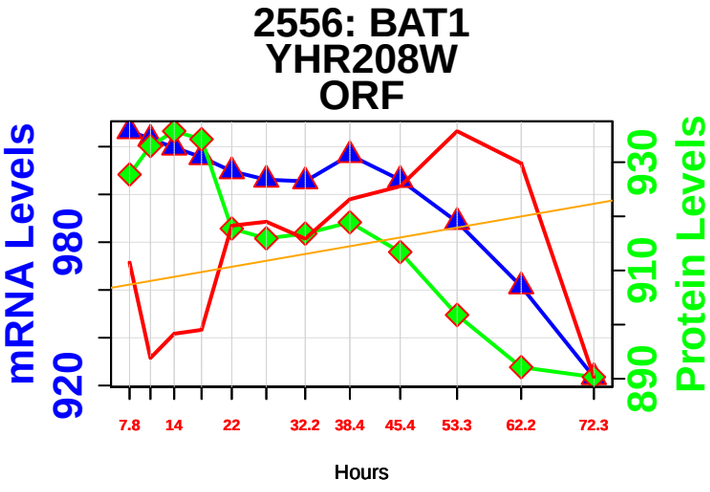


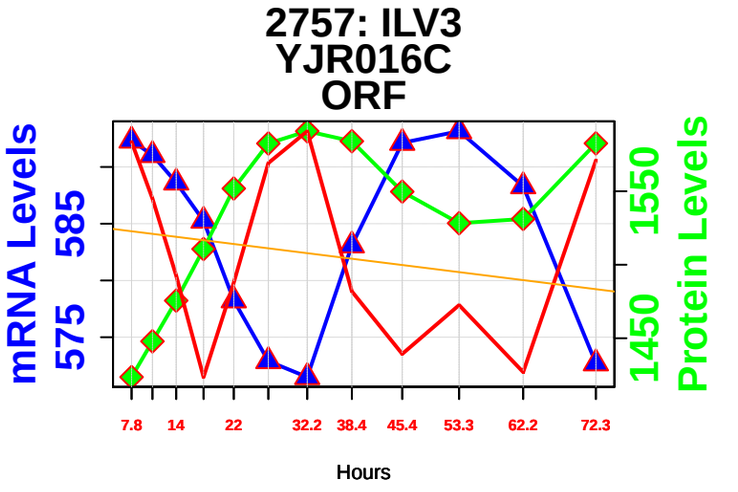

493: LEU2
YCL018W
ORF
mRNA Levels
660
680
700
Protein Levels
1200
1600
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

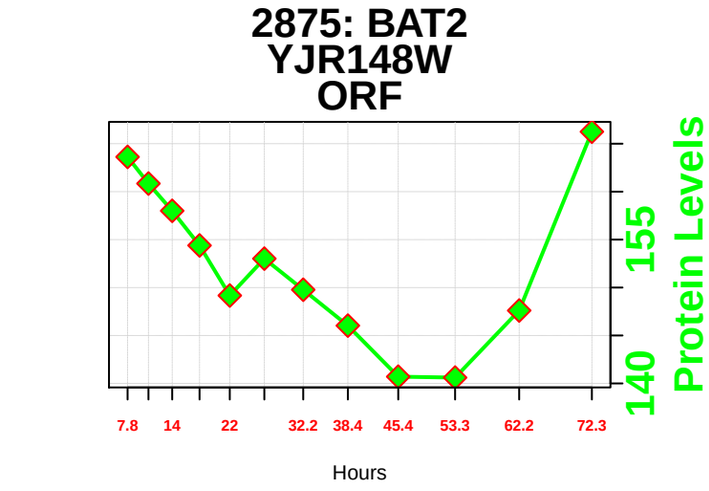

500: ILV6
YCL009C
ORF
mRNA Levels
680
690
700
Protein Levels
450
550
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

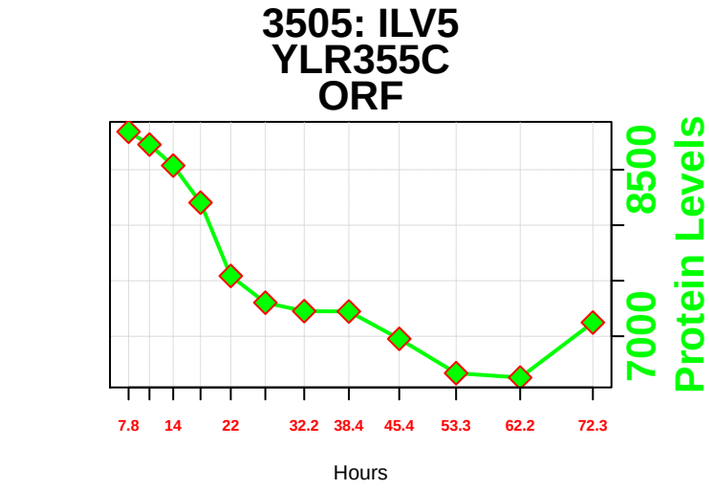

1636: ILV1
YER086W
ORF
Protein Levels
450
465
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

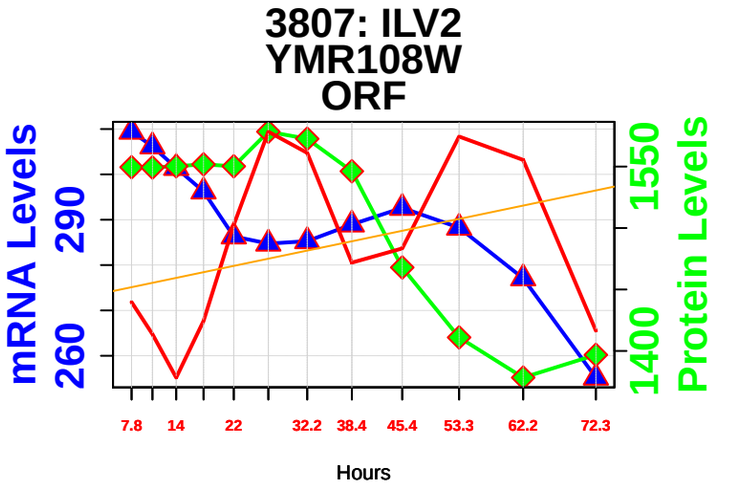

2062: LEU1
YGL009C
ORF
mRNA Levels
376
380
Protein Levels
1500
1800
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

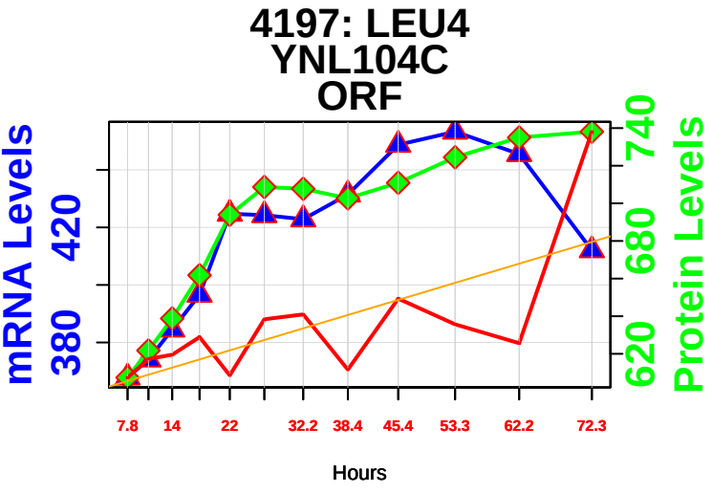

2556: BAT1
YHR208W
ORF
mRNA Levels
920
980
Protein Levels
890
910
930
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours


2757: ILV3
YJR016C
ORF
mRNA Levels
575
585
Protein Levels
1450
1550
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

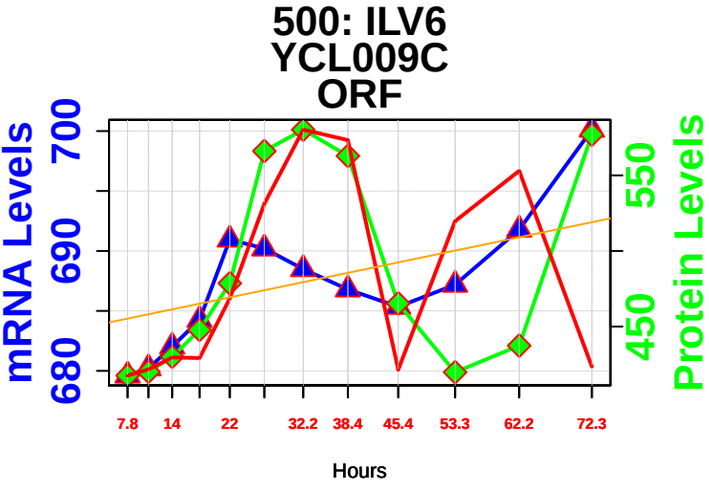

2875: BAT2
YJR148W
ORF
Protein Levels
140
155
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

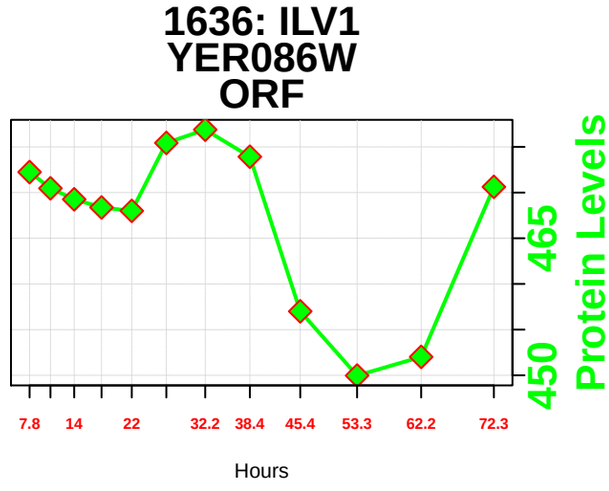

3505: ILV5
YLR355C
ORF
Protein Levels
7000
8500
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

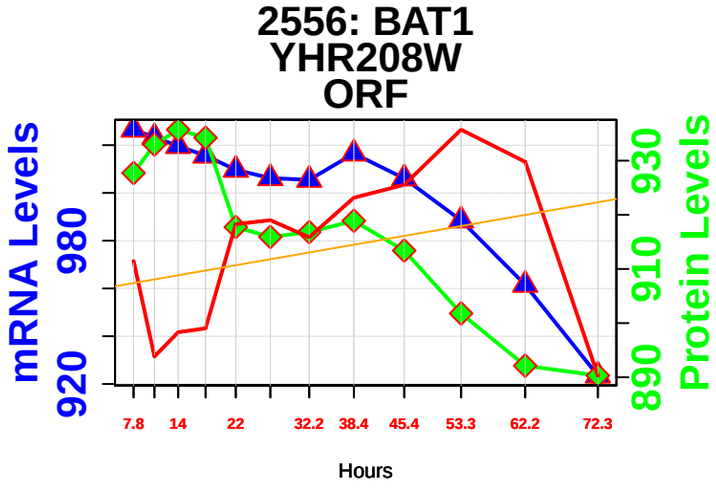

3807: ILV2
YMR108W
ORF
mRNA Levels
260
290
Protein Levels
1400
1550
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

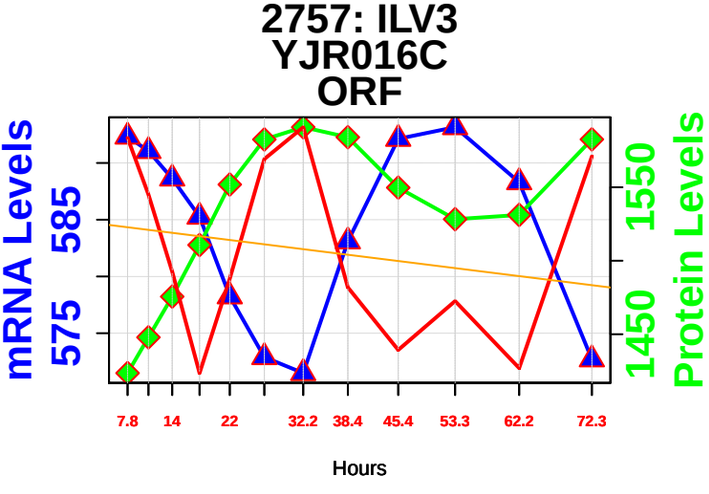

4197: LEU4
YNL104C
ORF
mRNA Levels
380
420
620
680
740
Protein Levels
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

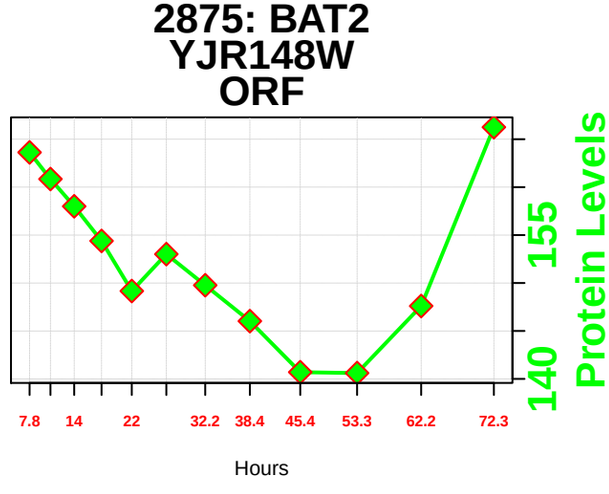
isoleucine biosynthesis

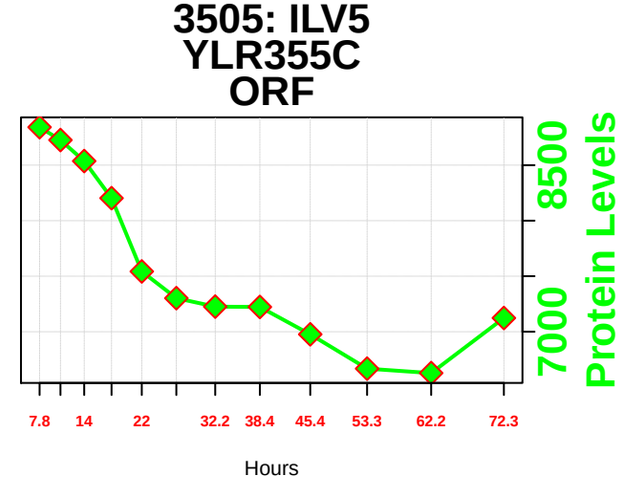


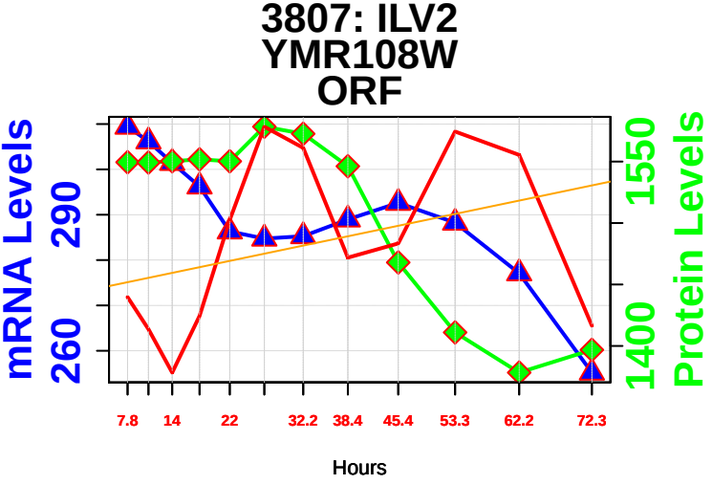




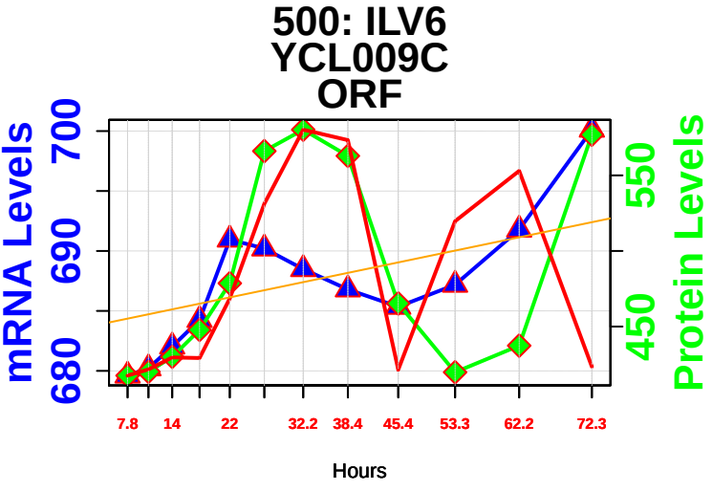


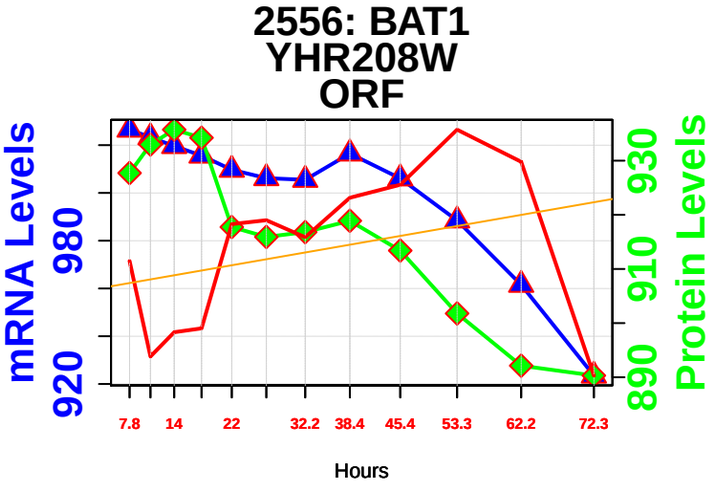


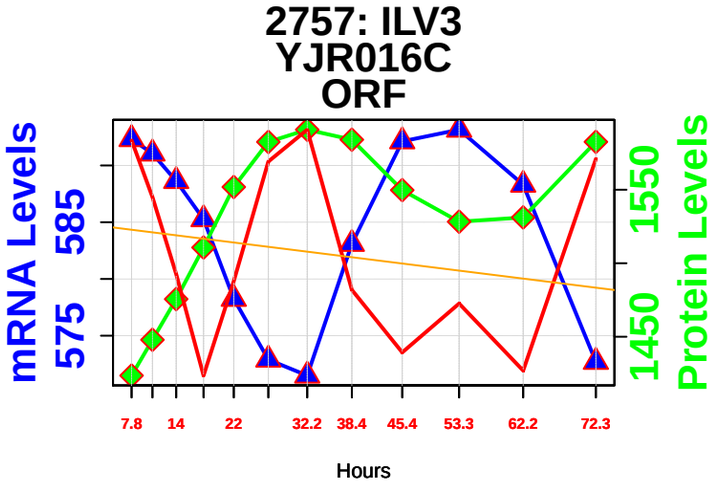


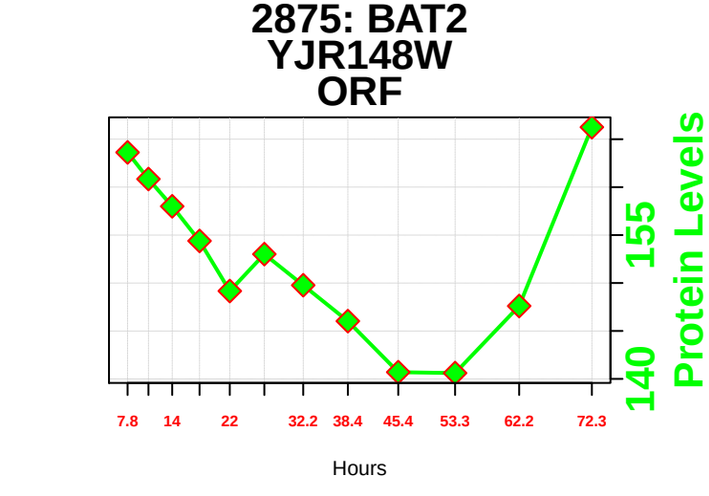


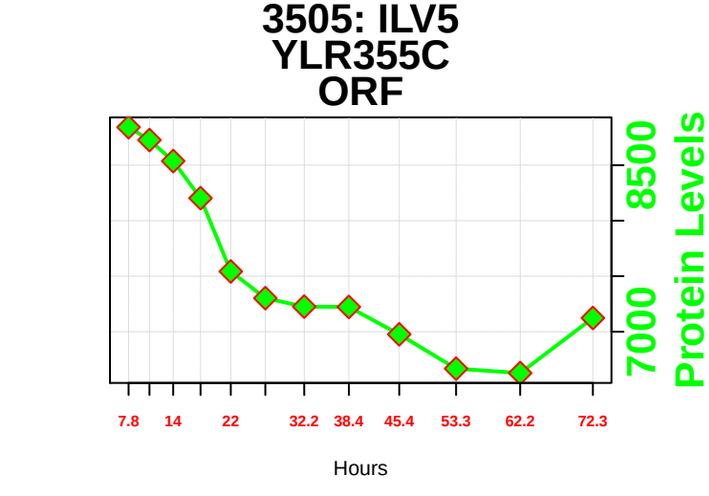
valine biosynthesis

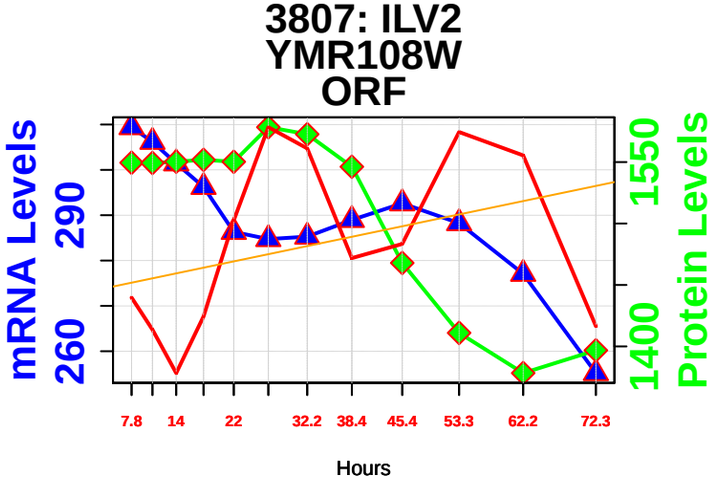


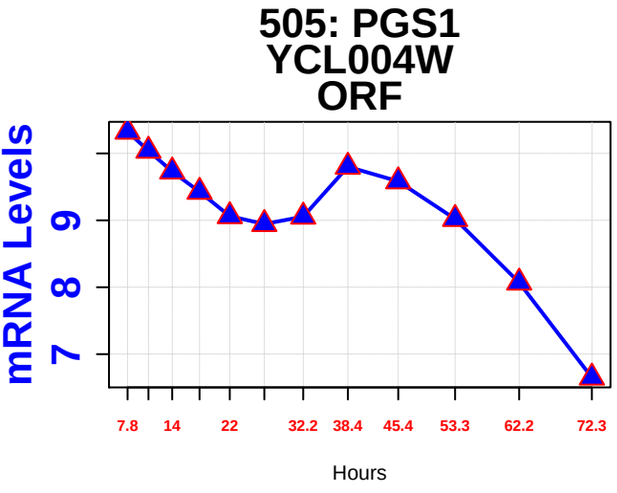


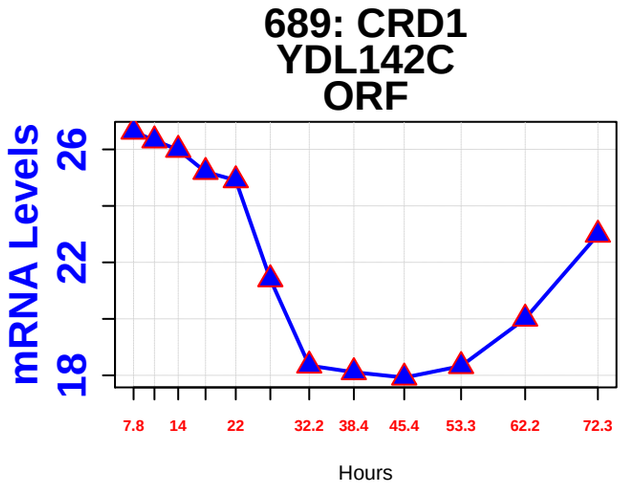


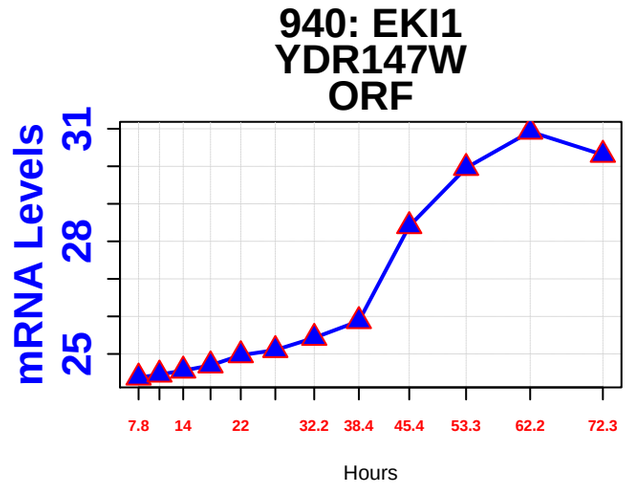


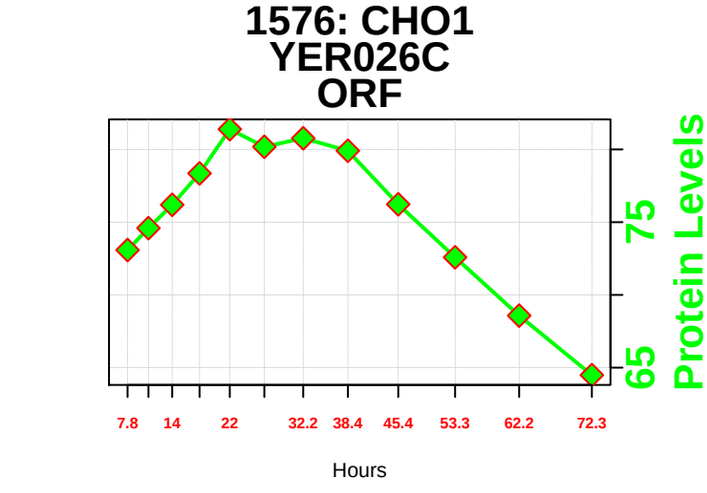


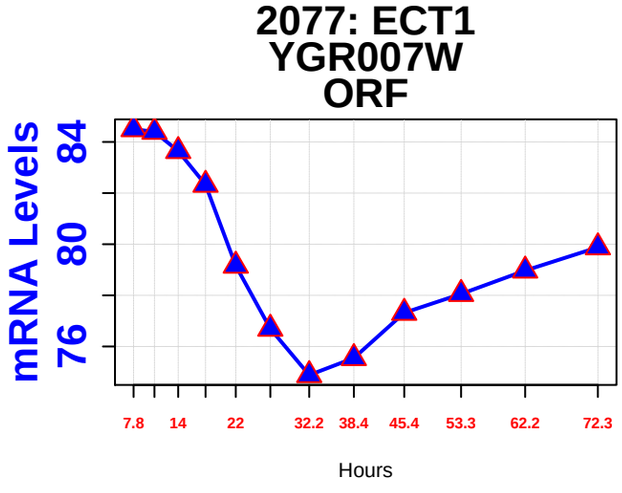


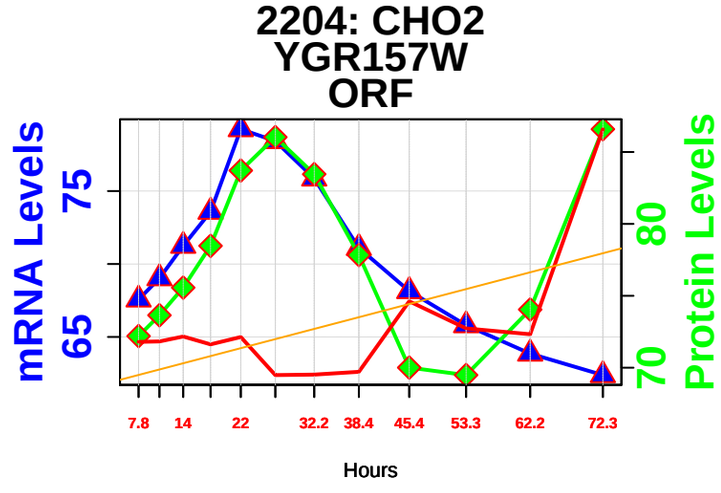

505: PGS1
YCL004W
ORF
mRNA Levels
7
8
9
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

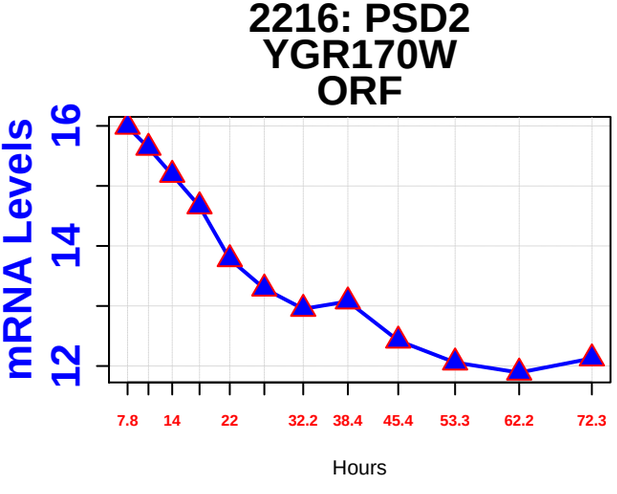

689: CRD1
YDL142C
ORF
mRNA Levels
18
22
26
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

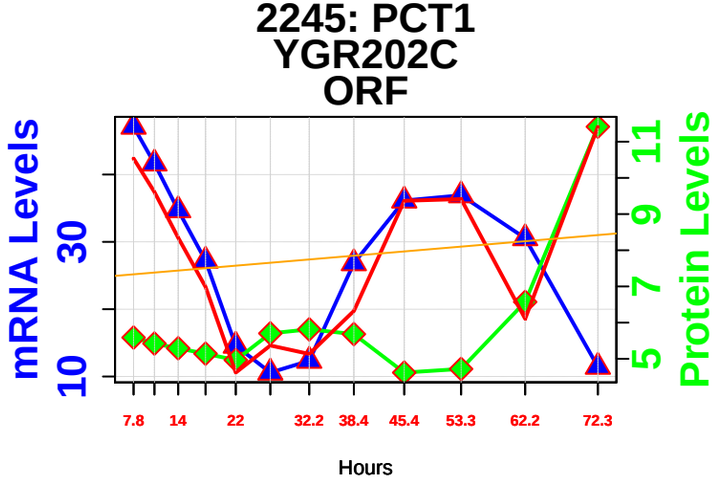

940: EKI1
YDR147W
ORF
mRNA Levels
25
28
31
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

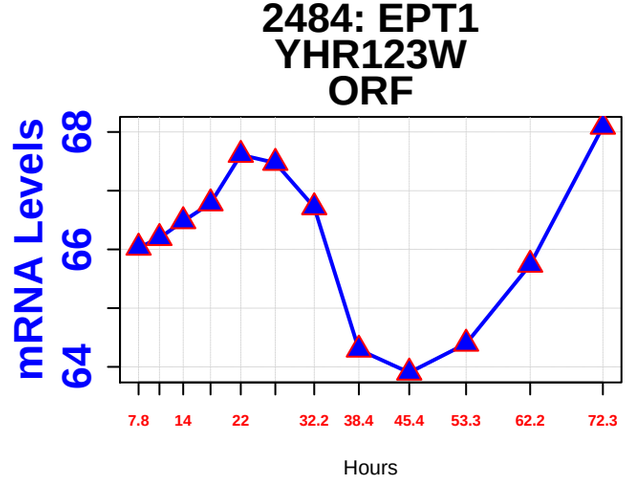

1576: CHO1
YER026C
ORF
65
75
Protein Levels
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours


2077: ECT1
YGR007W
ORF
mRNA Levels
76
80
84
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours


2204: CHO2
YGR157W
ORF
mRNA Levels
65
75
70
80
Protein Levels
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

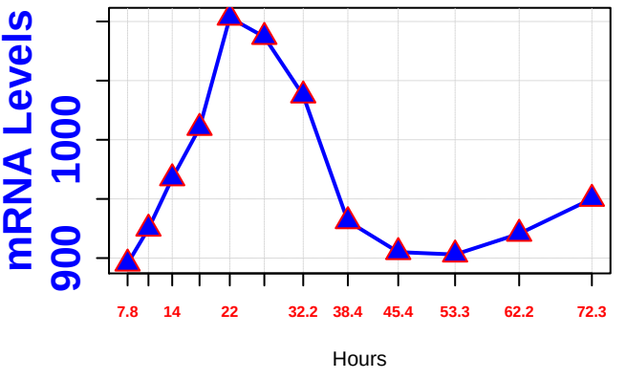

2216: PSD2
YGR170W
ORF
mRNA Levels
12
14
16
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours


2245: PCT1
YGR202C
ORF
mRNA Levels
10
30
5
7
9
11
Protein Levels
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

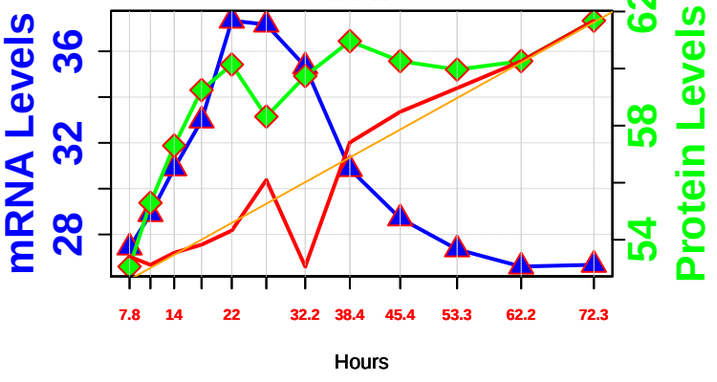

2484: EPT1
YHR123W
ORF
mRNA Levels
64
66
68
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

phospholipid biosynthesis

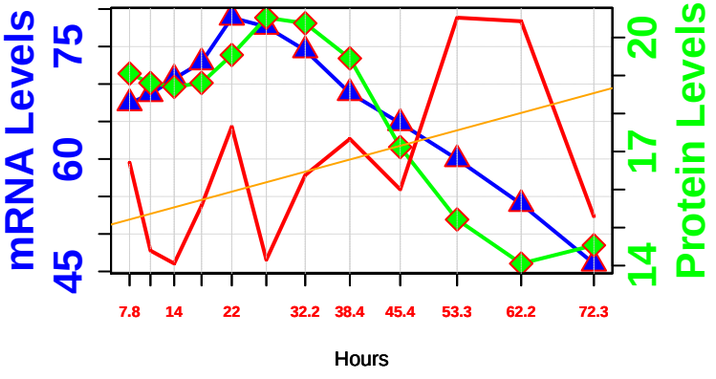
2802: OPI3
YJR073C
ORF



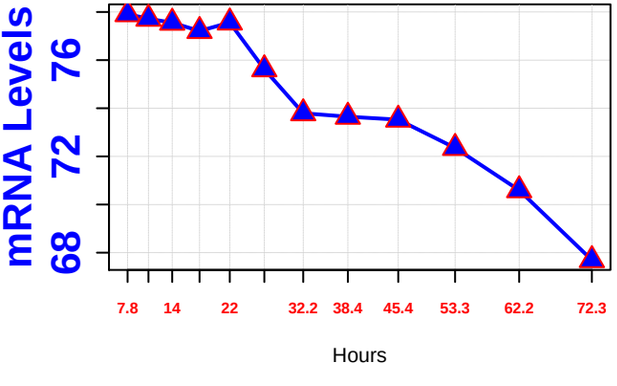
3318: CKI1
YLR133W
ORF



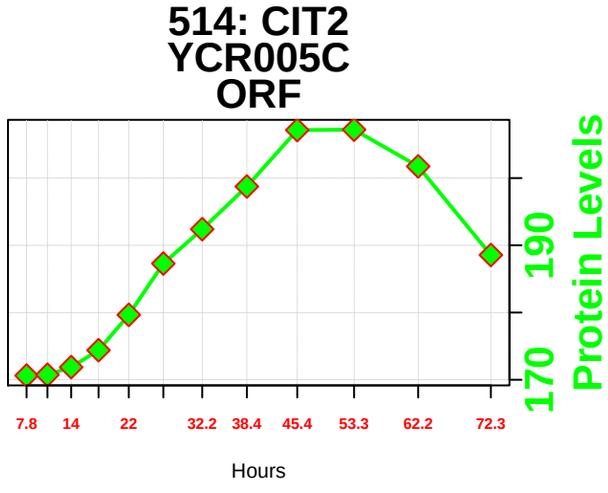
4145: PSD1
YNL169C
ORF

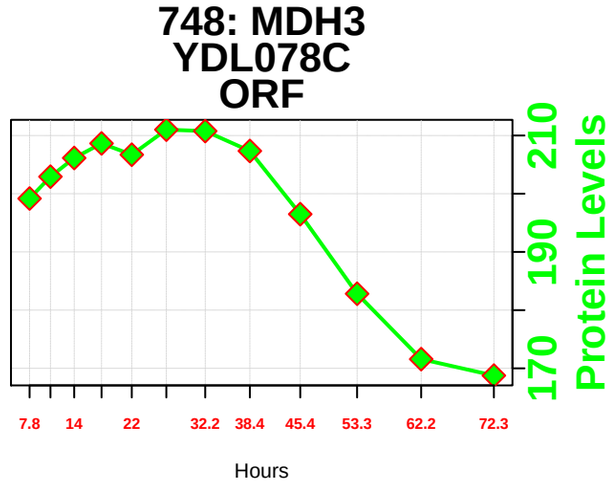


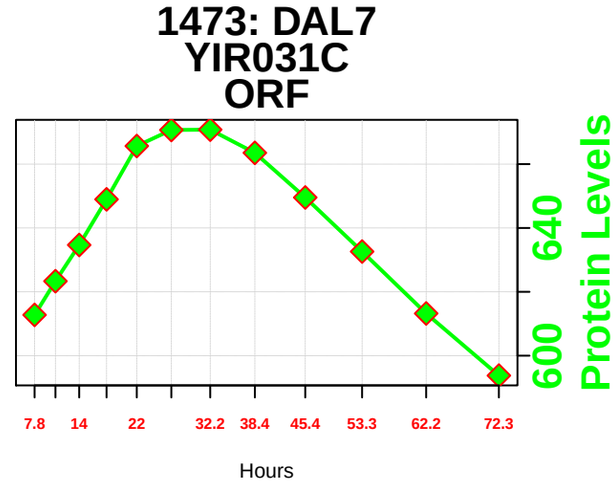
4179: CPT1
YNL130C
ORF

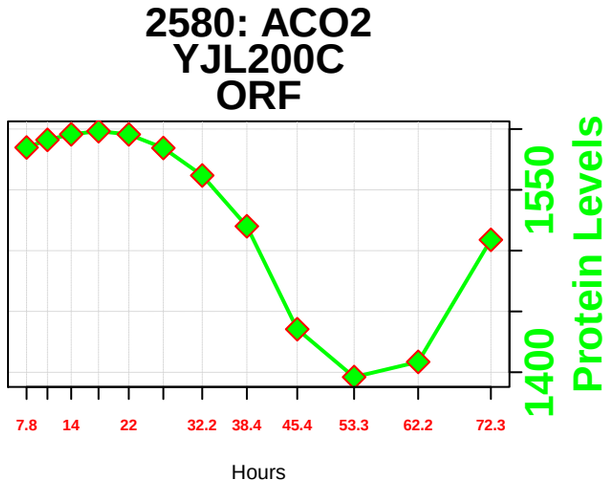


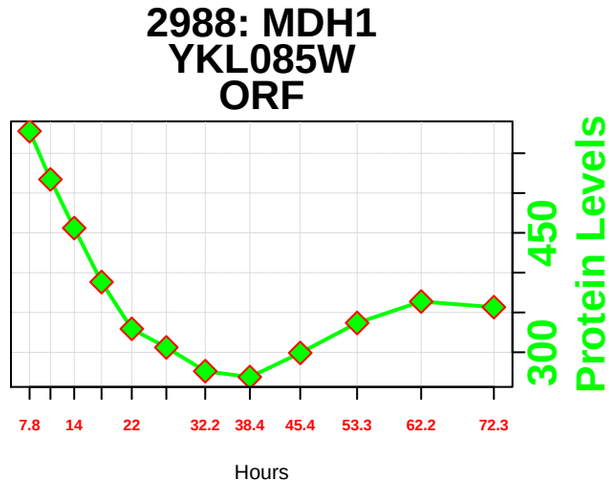
glyoxylate cycle

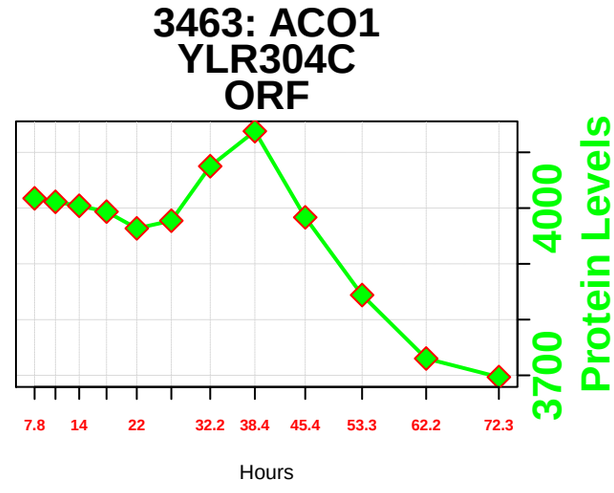


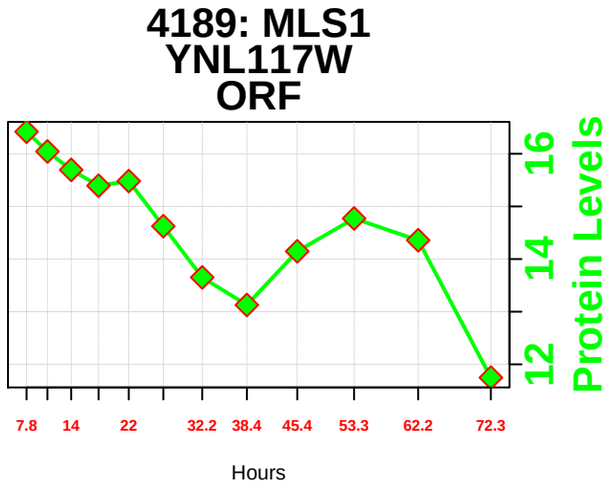


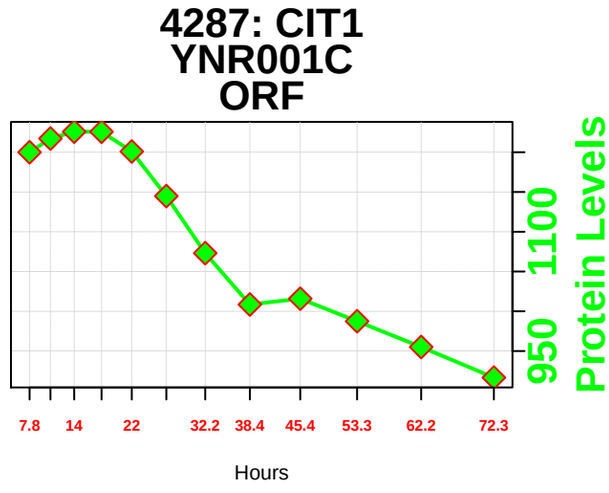


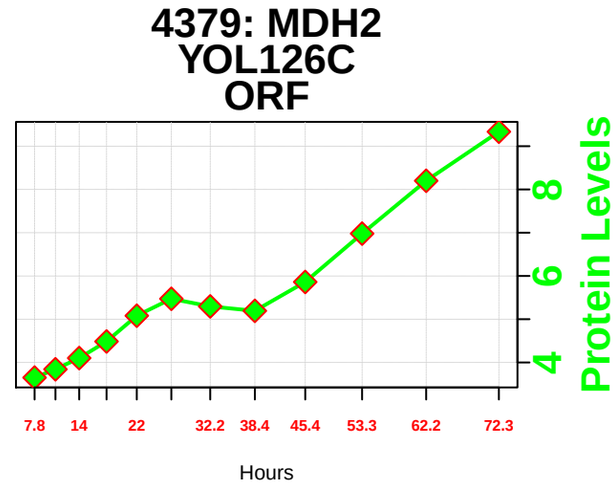




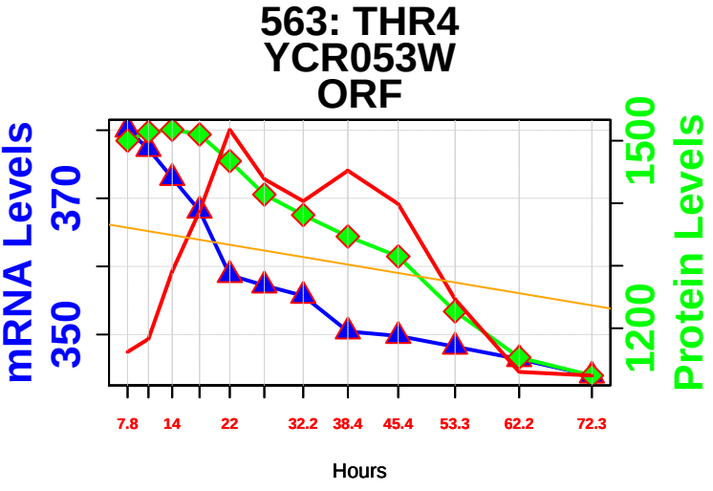


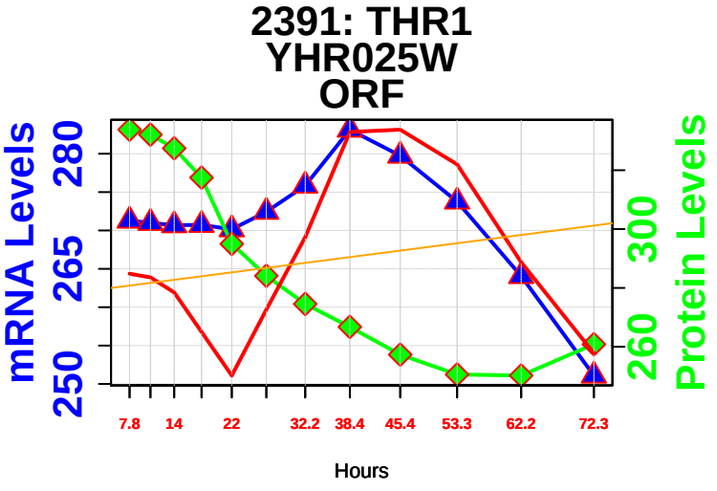




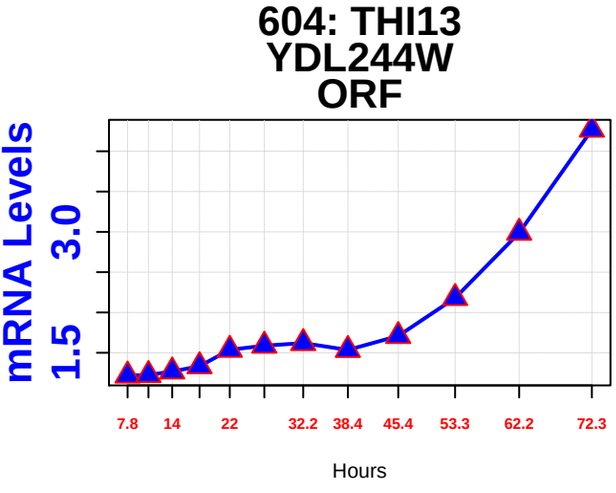


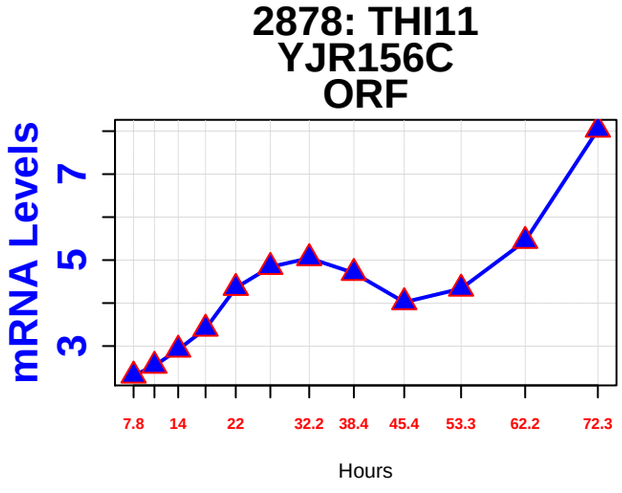
threonine biosynthesis

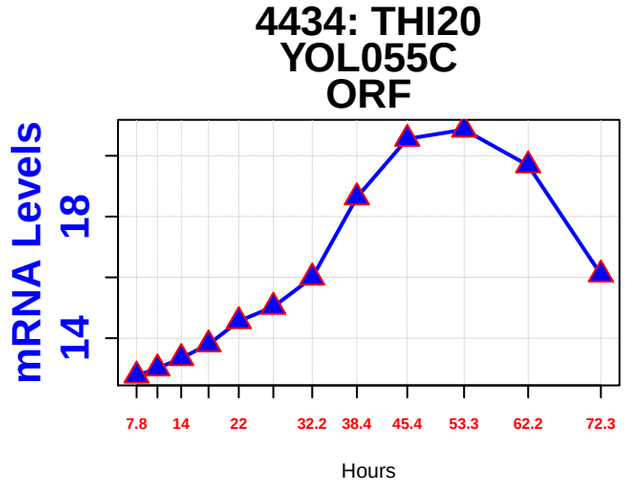


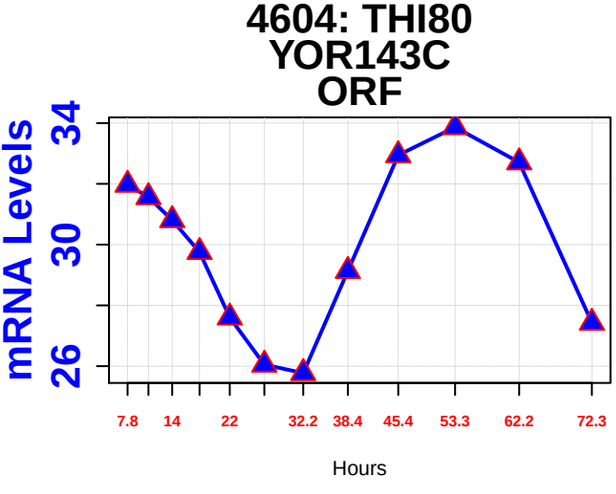


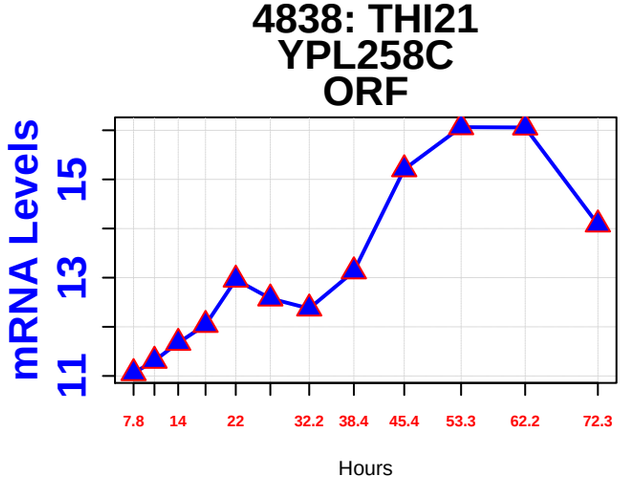
thiamine biosynthesis

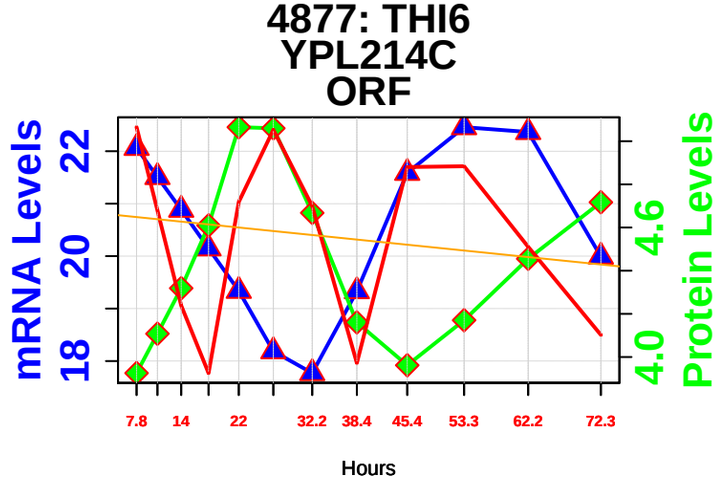




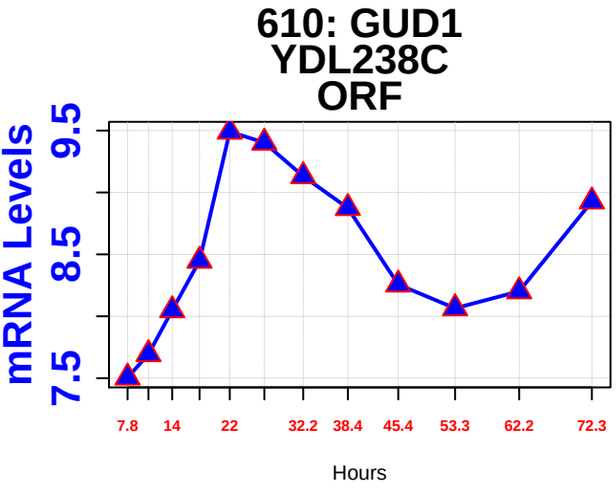


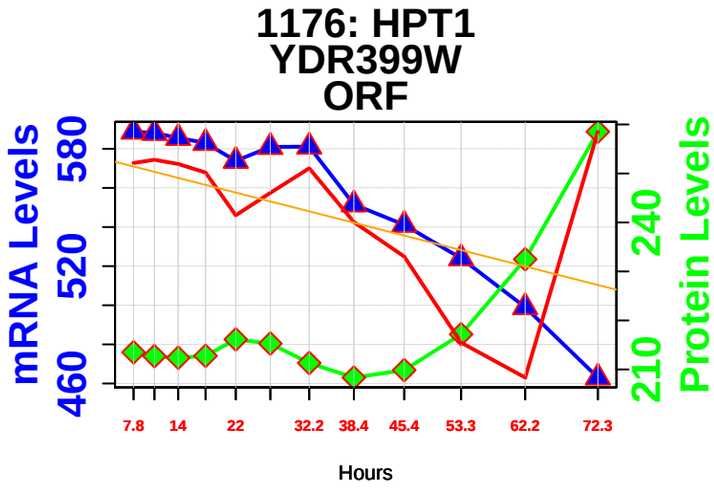


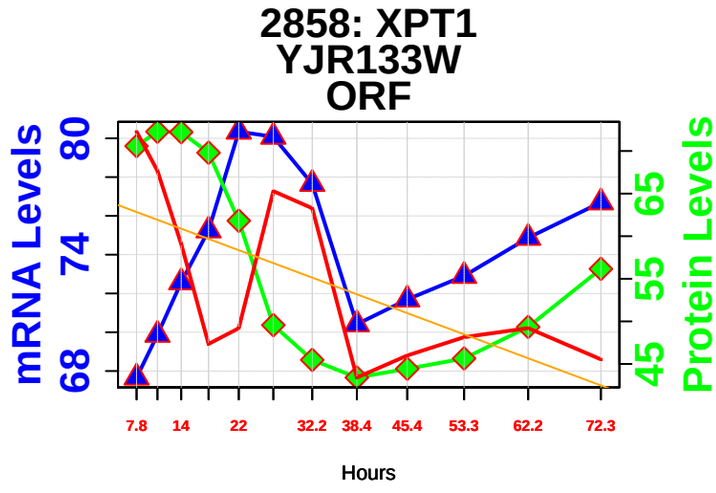


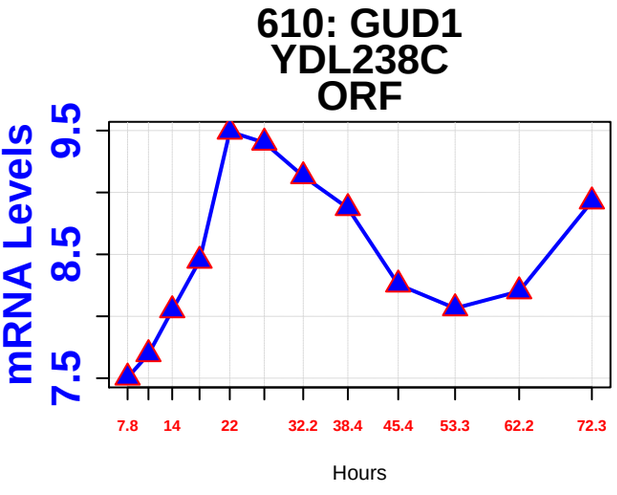


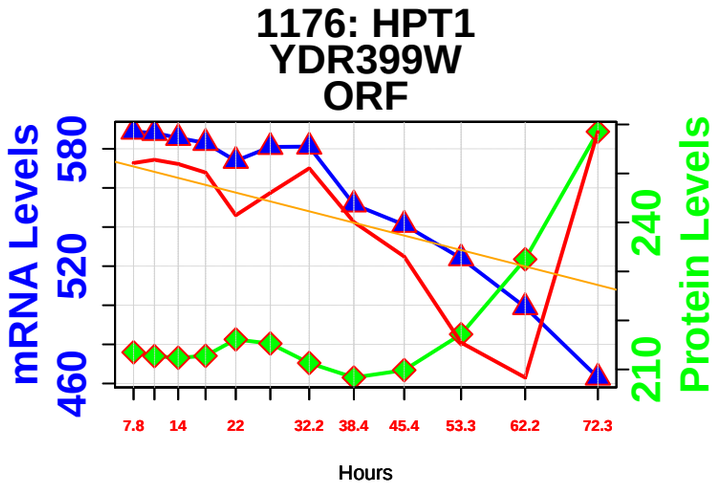
salvage pathways of guanine, xanthine and their nucleosides

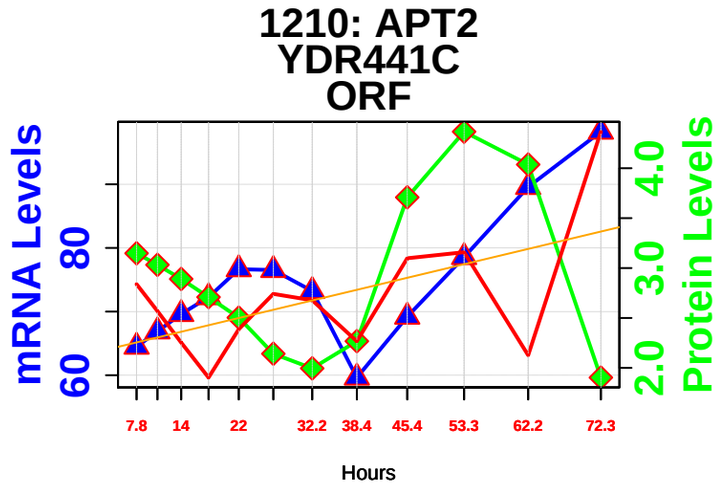


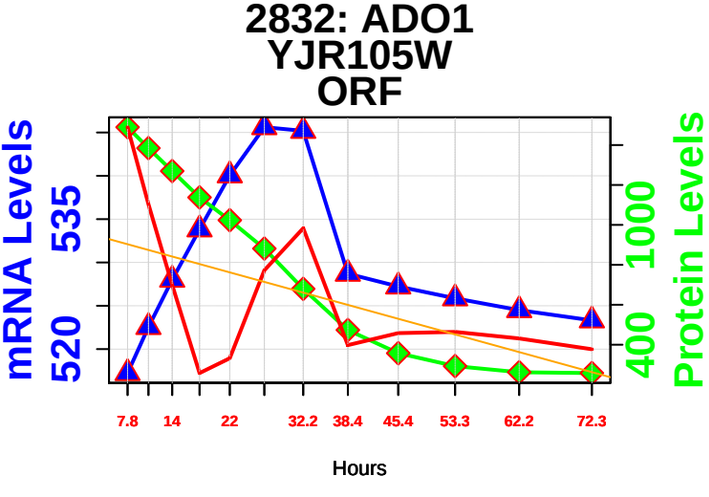


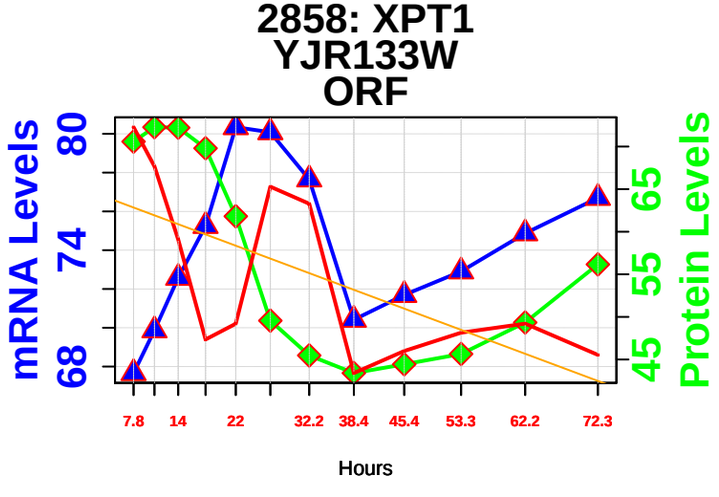


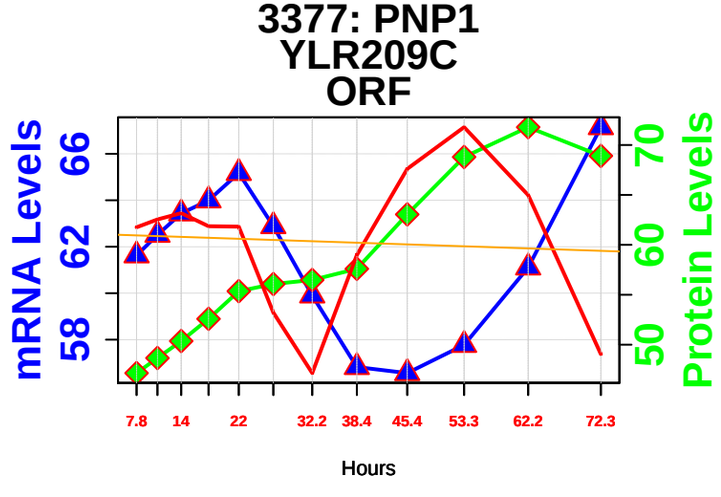

610: GUD1
YDL238C
ORF
mRNA Levels
7.5
8.5
9.5
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

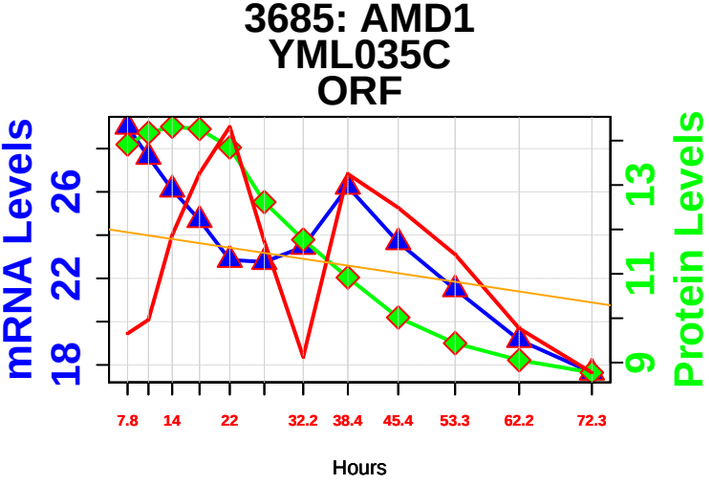

1176: HPT1
YDR399W
ORF
mRNA Levels
460
520
580
Protein Levels
210
240
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

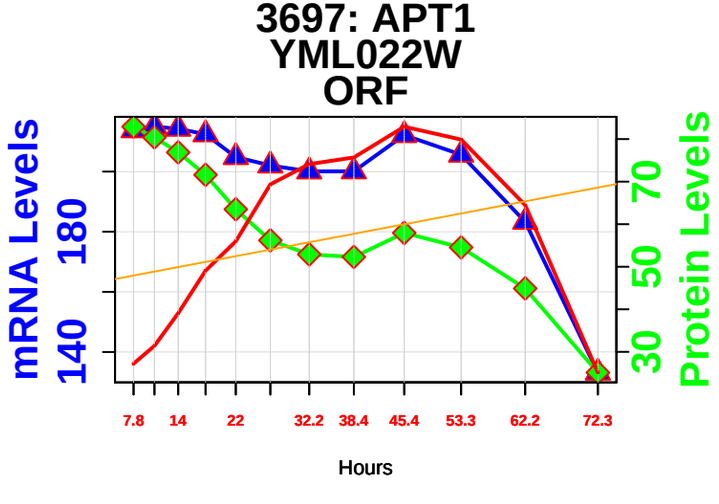

1210: APT2
YDR441C
ORF
mRNA Levels
60
80
Protein Levels
2.0
3.0
4.0
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

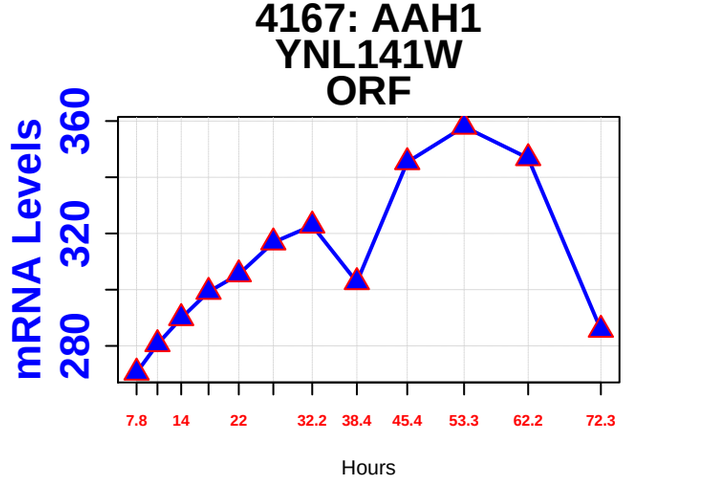

2832: ADO1
YJR105W
ORF
mRNA Levels
520
535
Protein Levels
400
1000
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

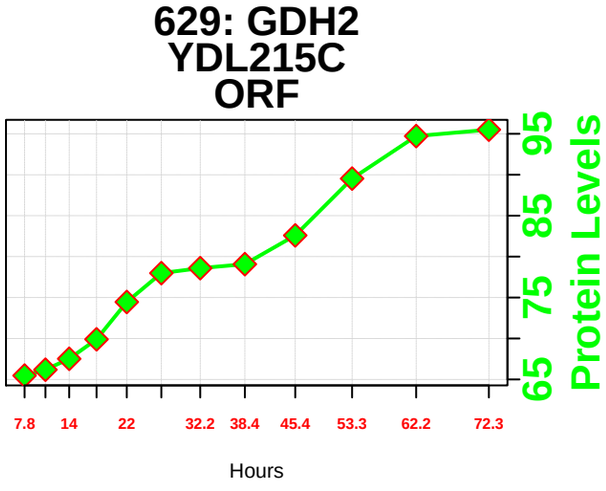

2858: XPT1
YJR133W
ORF
mRNA Levels
68
74
80
Protein Levels
45
55
65
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours


3377: PNP1
YLR209C
ORF
mRNA Levels
58
62
66
Protein Levels
50
60
70
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

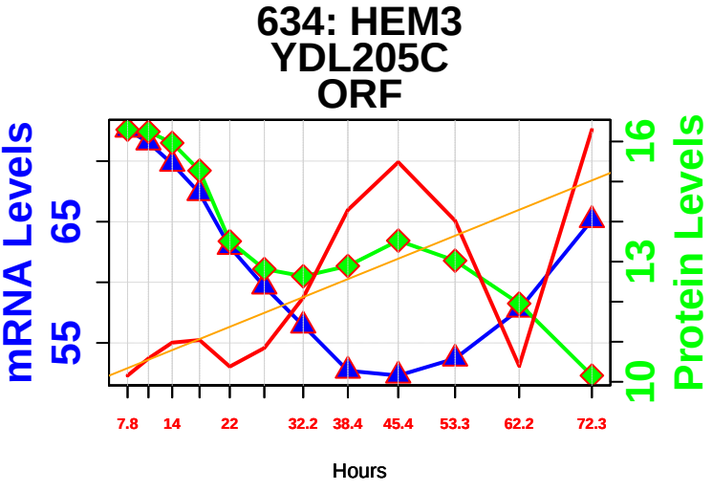

3685: AMD1
YML035C
ORF
mRNA Levels
18
22
26
Protein Levels
9
11
13
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

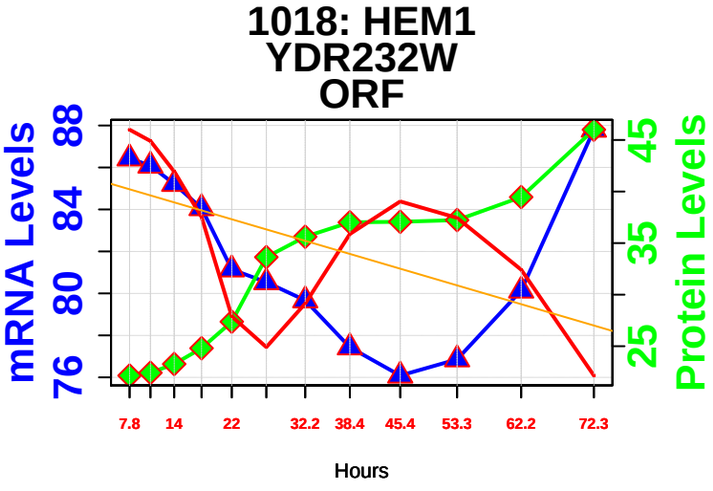

3697: APT1
YML022W
ORF
mRNA Levels
140
180
Protein Levels
30
50
70
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

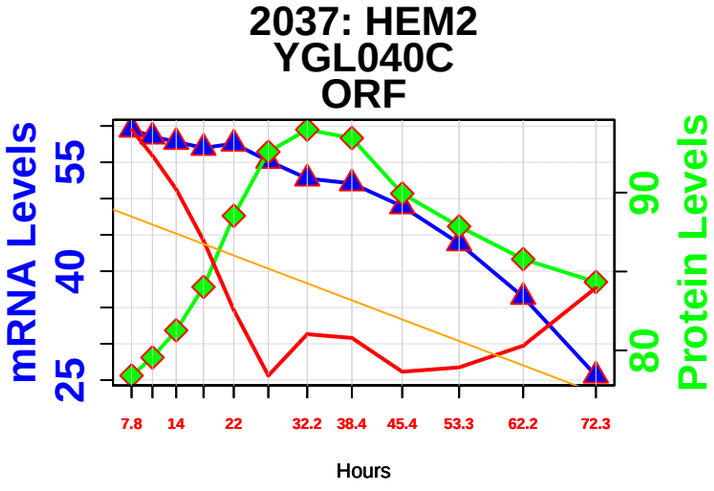

4167: AAH1
YNL141W
ORF
mRNA Levels
280
320
360
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

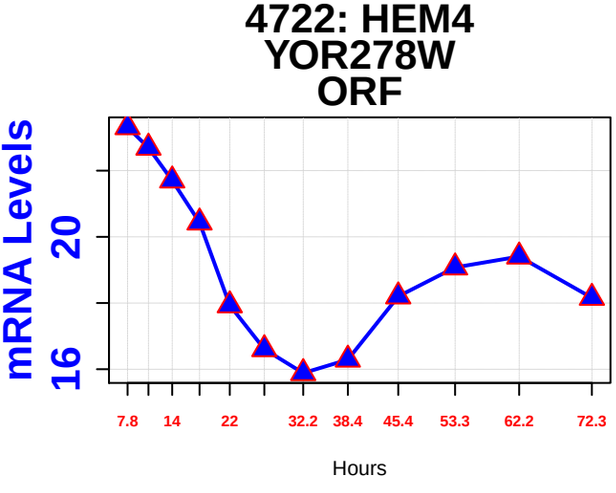

629: GDH2
YDL215C
ORF
65
75
85
95
Protein Levels
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

tetrapyrrole biosynthesis

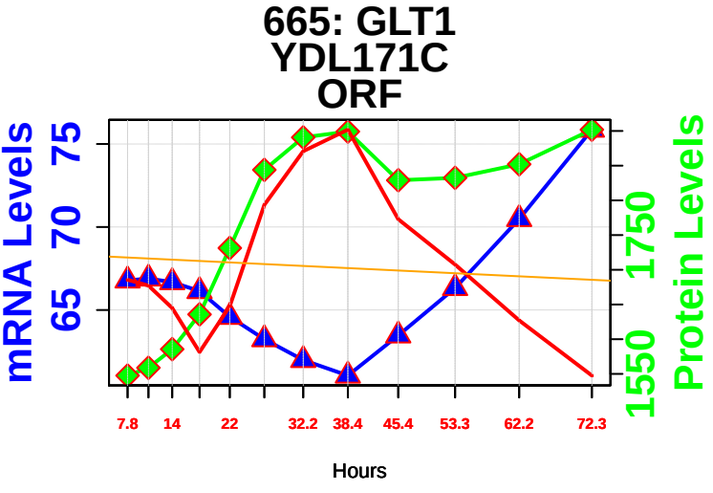




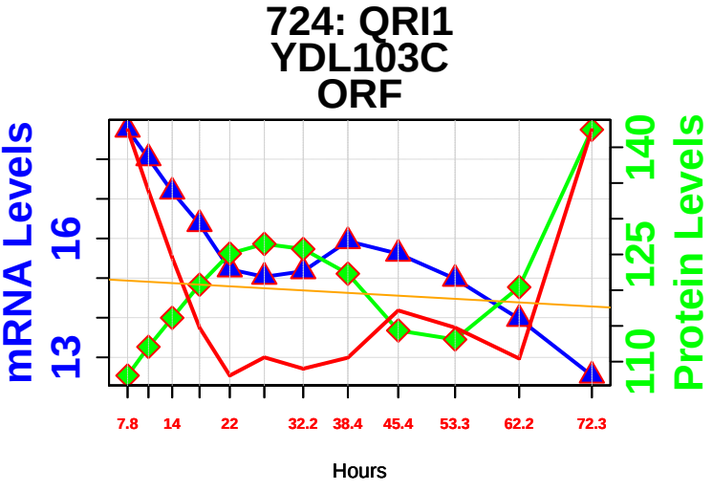


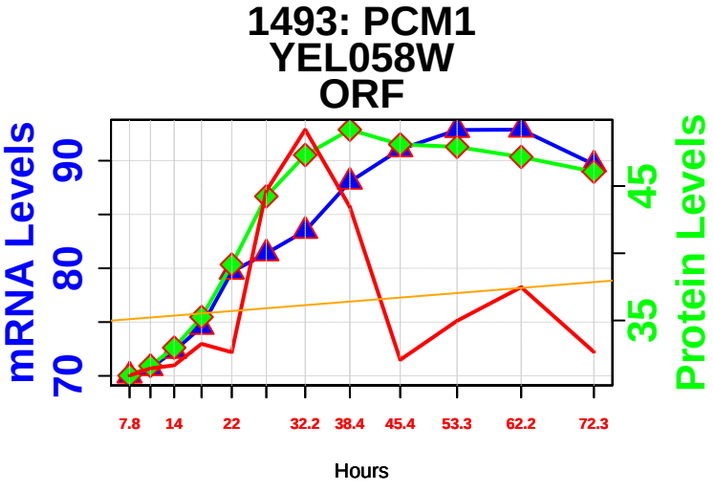


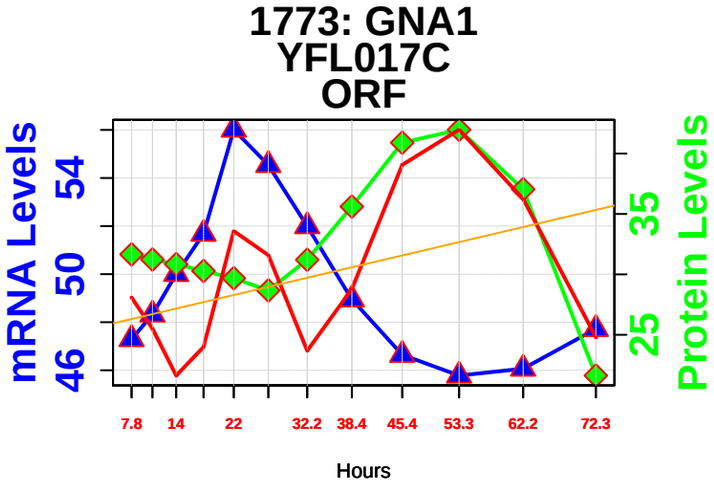
formaldehyde dehydrogenase (glutathione-dependent)

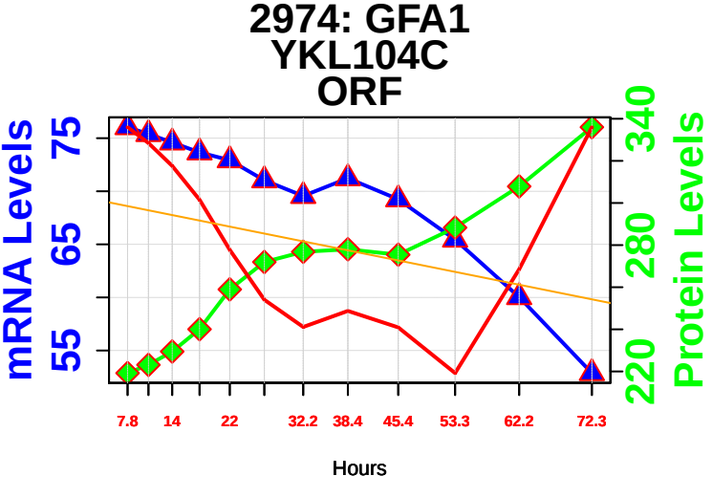


UDP−N−acetylglucosamine biosynthesis

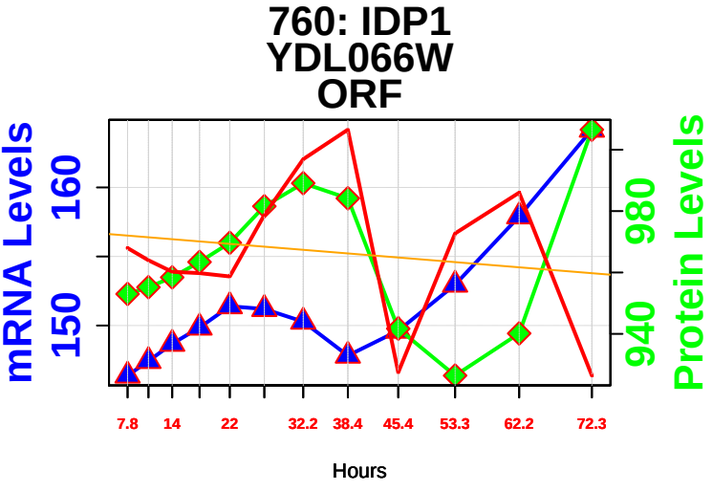


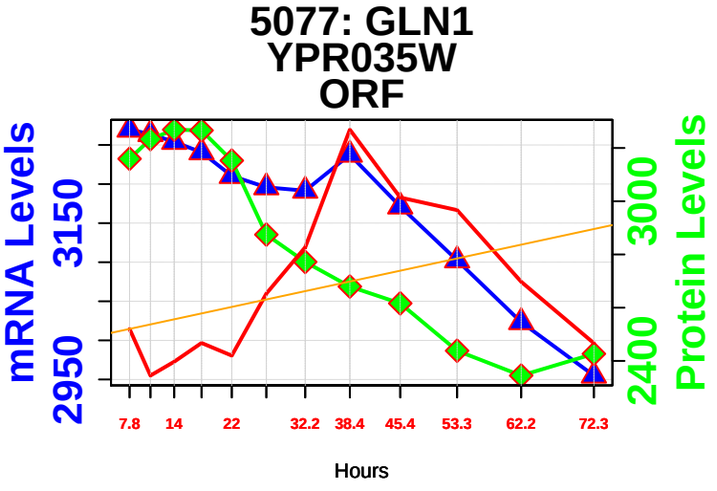




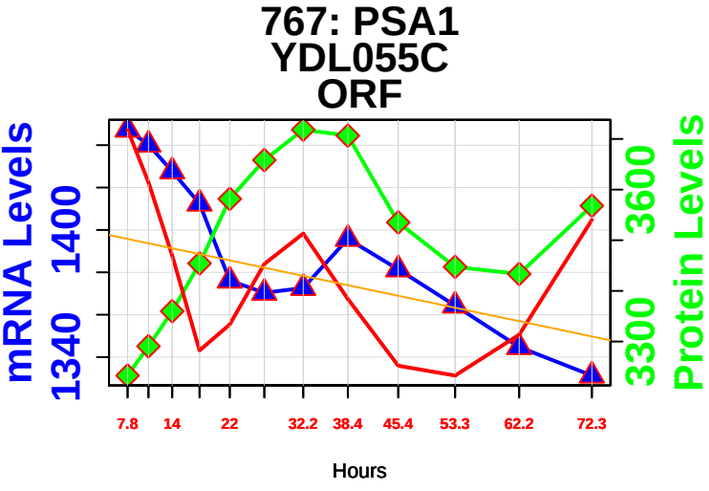


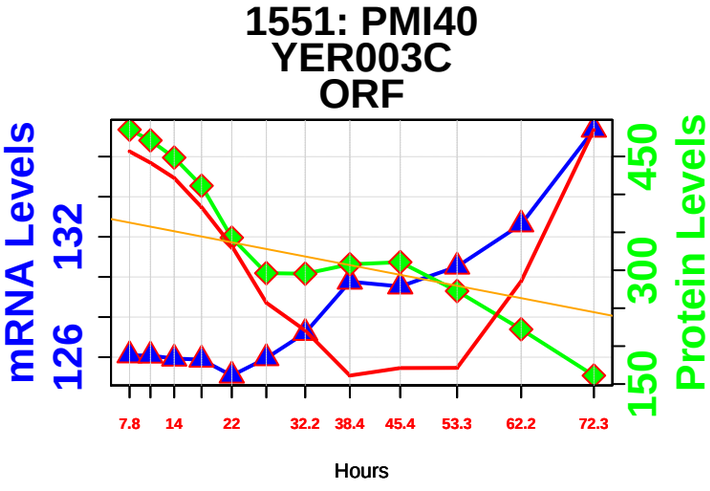
superpathway of glutamate biosynthesis

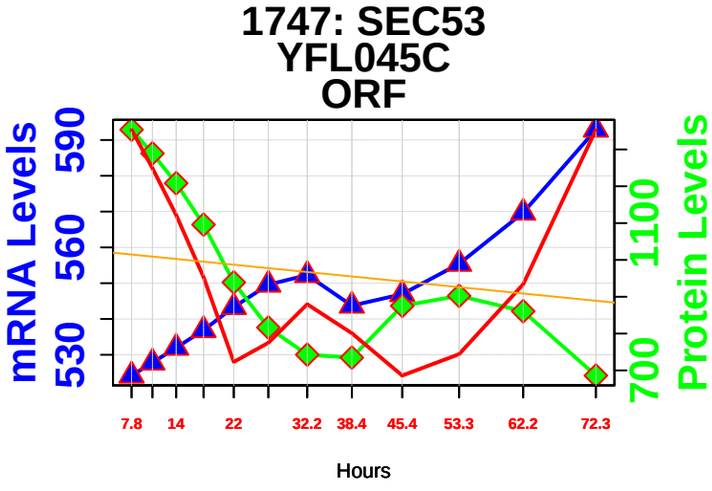


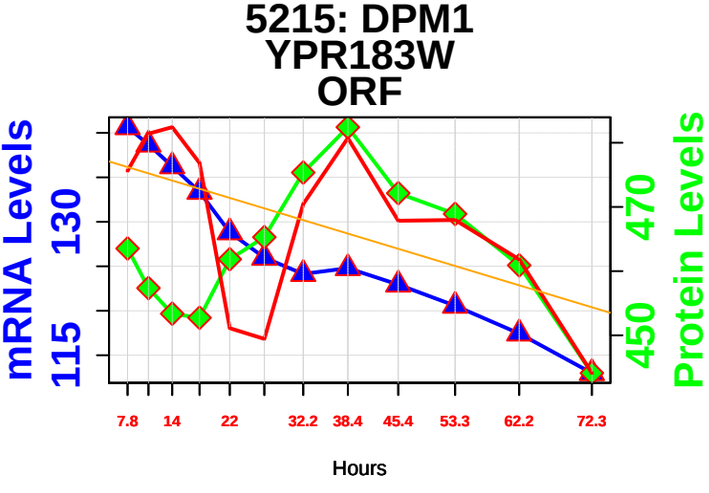


dolichyl phosphate D−mannose biosynthesis

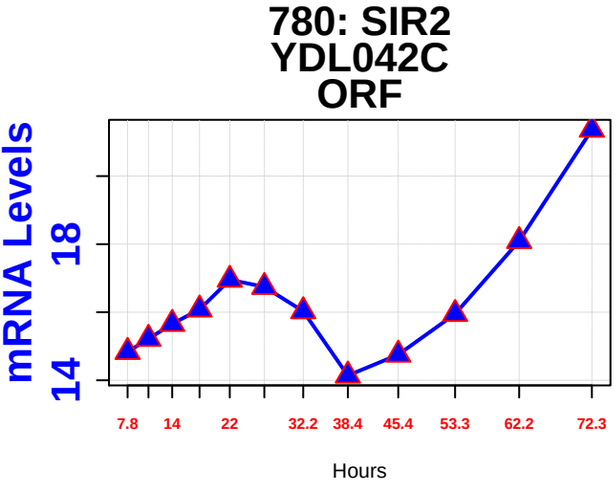


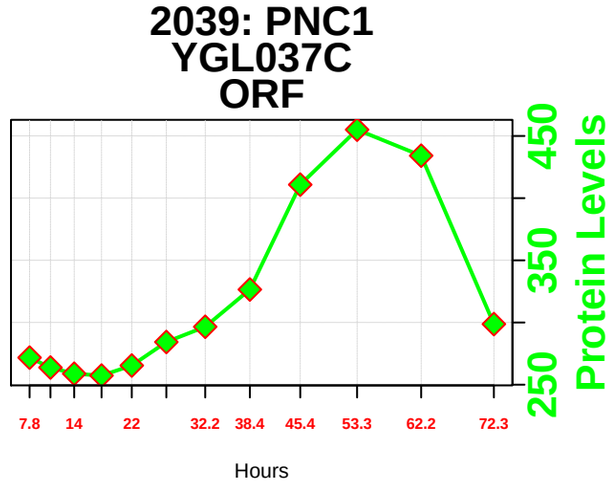


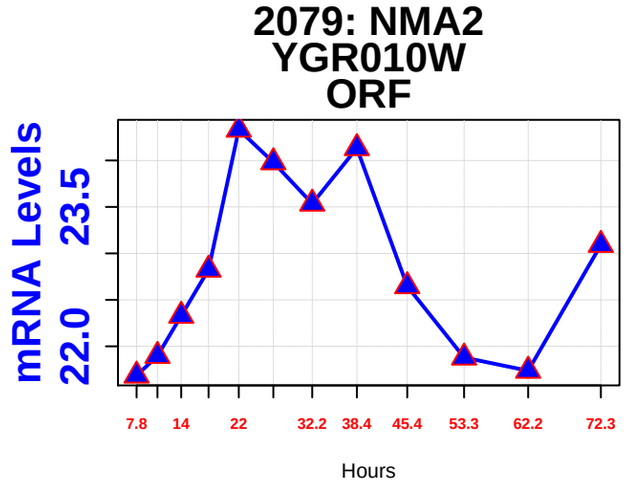


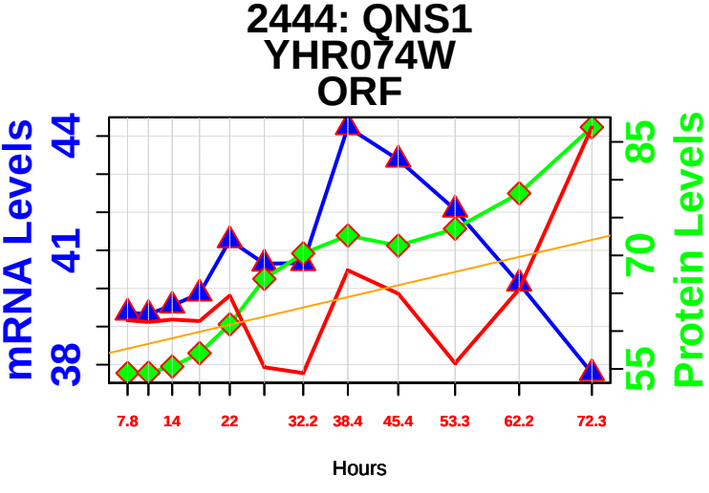


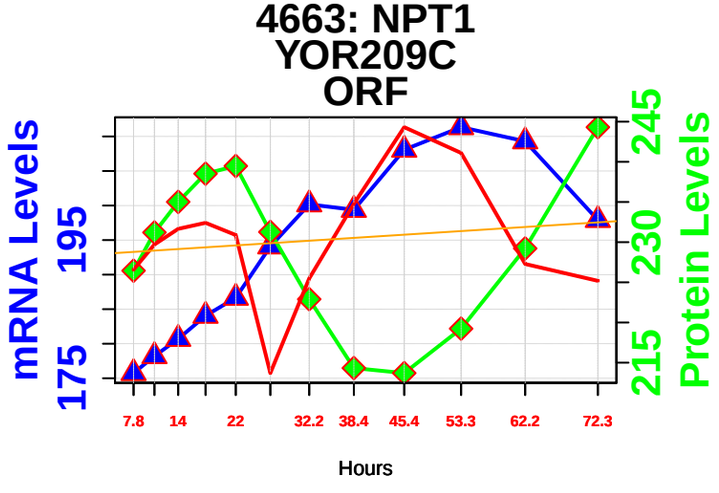
NAD salvage pathway





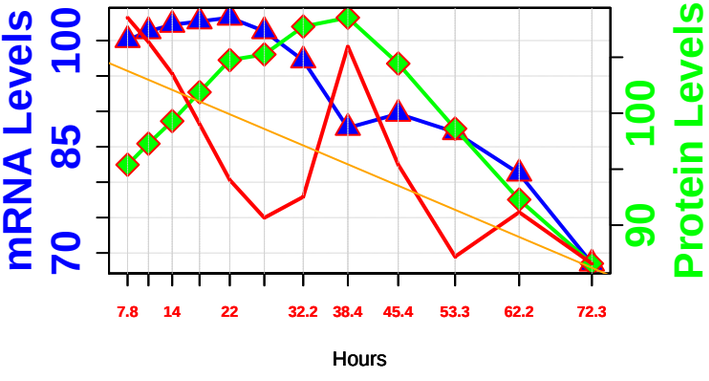




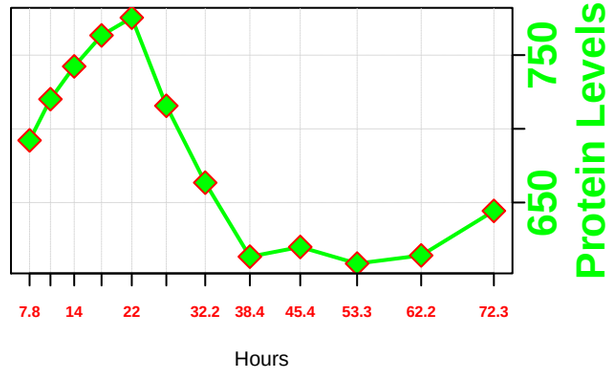


glycerol biosynthesis

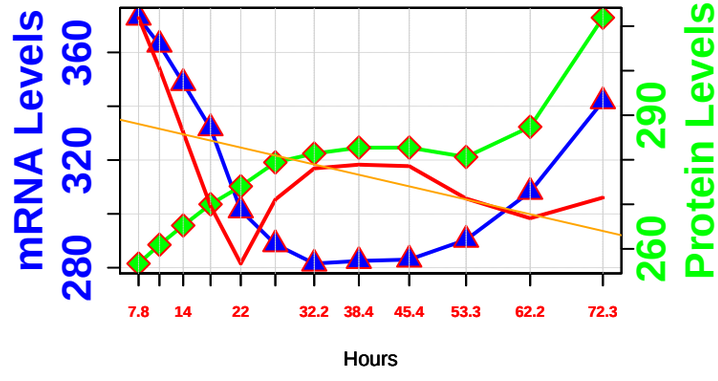
210: CDS1
YBR029C
ORF



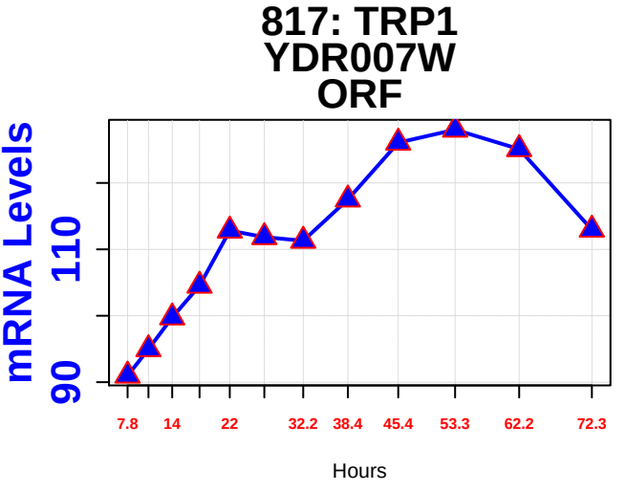
792: GPD1
YDL022W
ORF

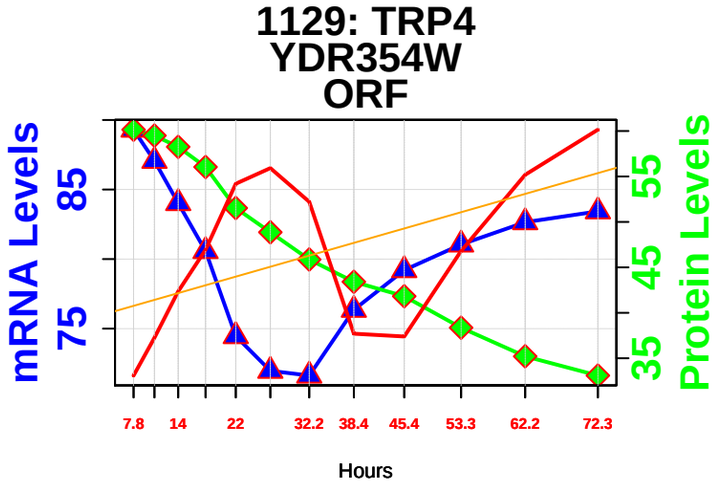


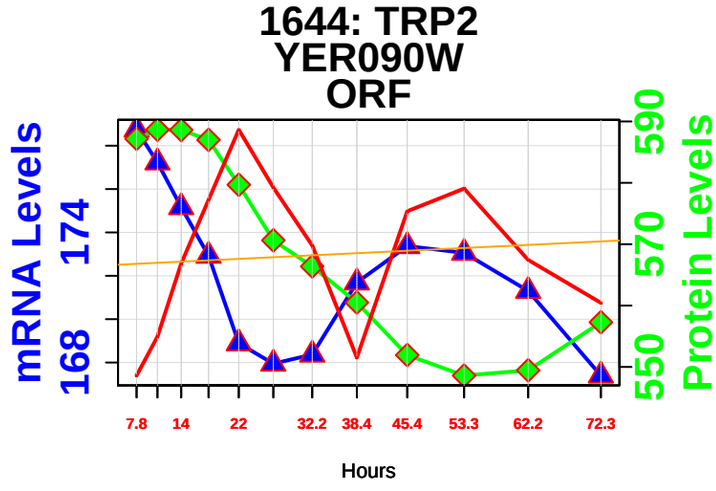
4430: GPD2
YOL059W
ORF

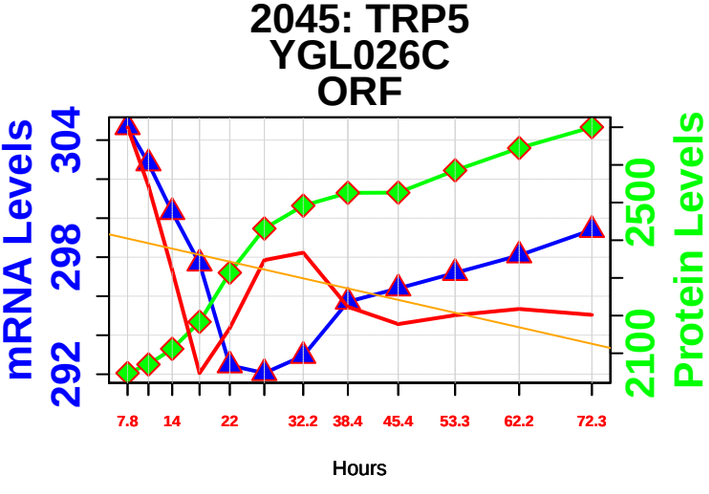


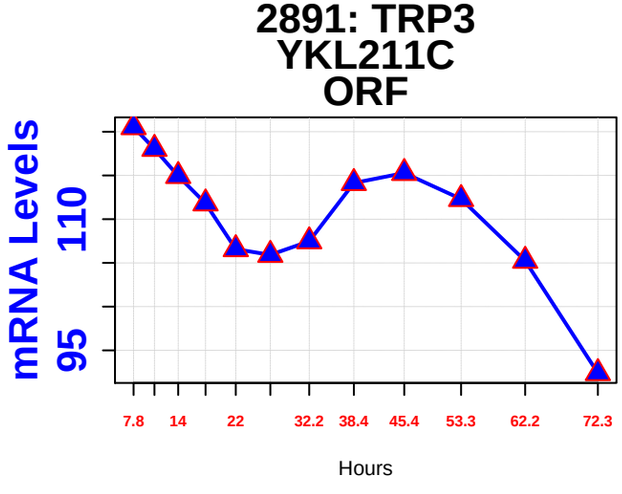
tryptophan biosynthesis

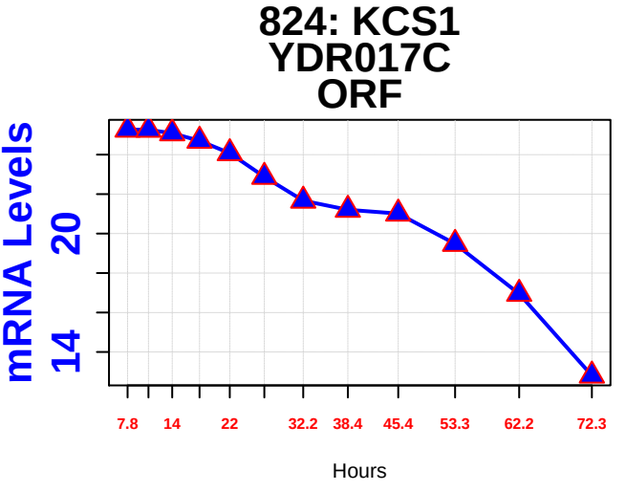


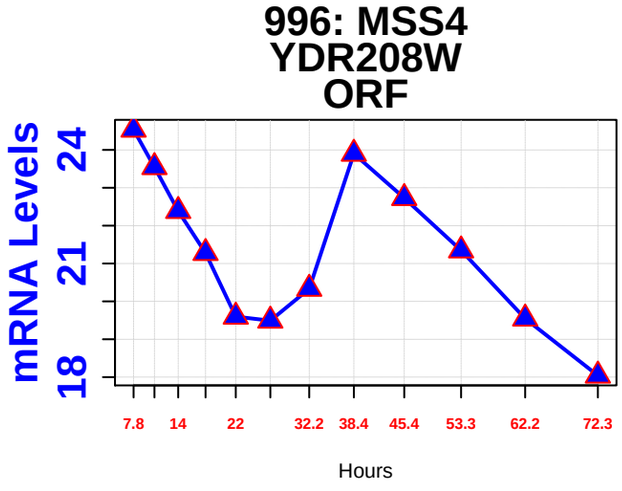


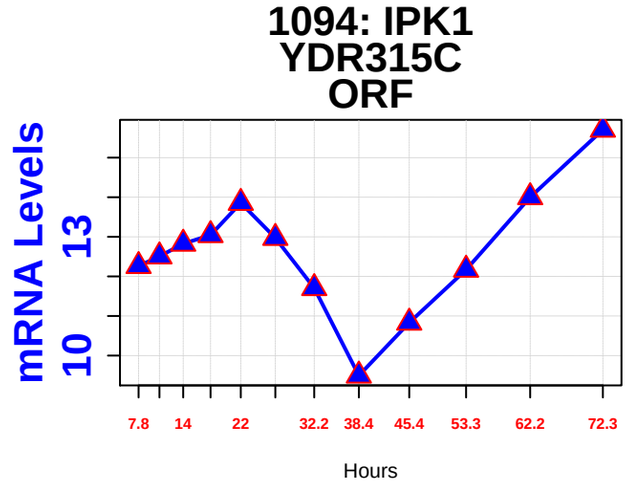


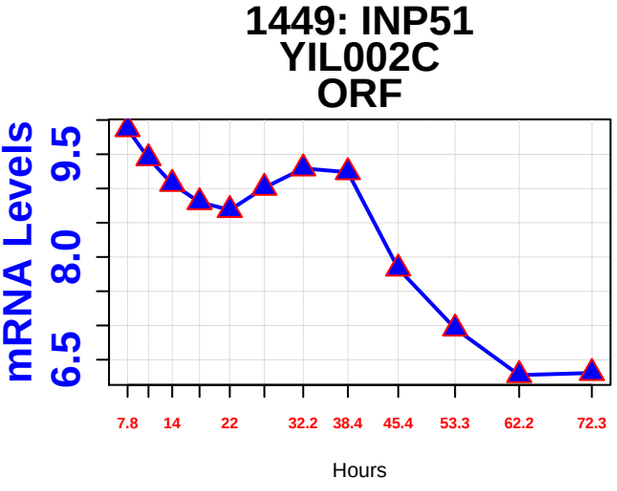


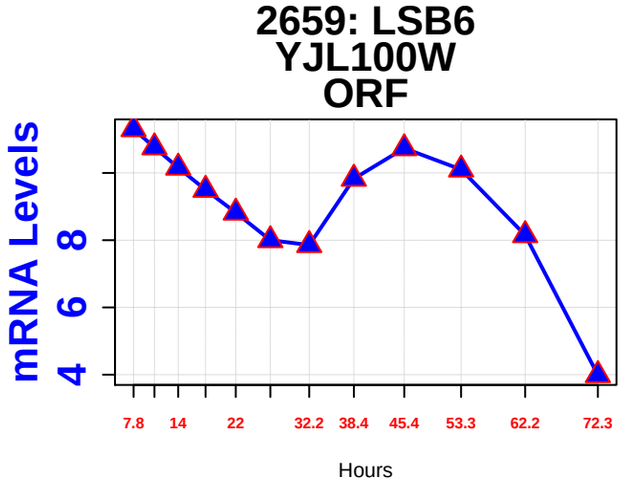


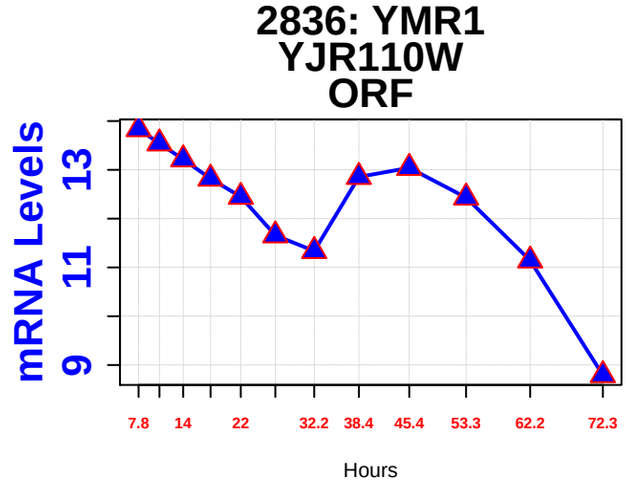

824: KCS1
YDR017C
ORF
mRNA Levels
14
20
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

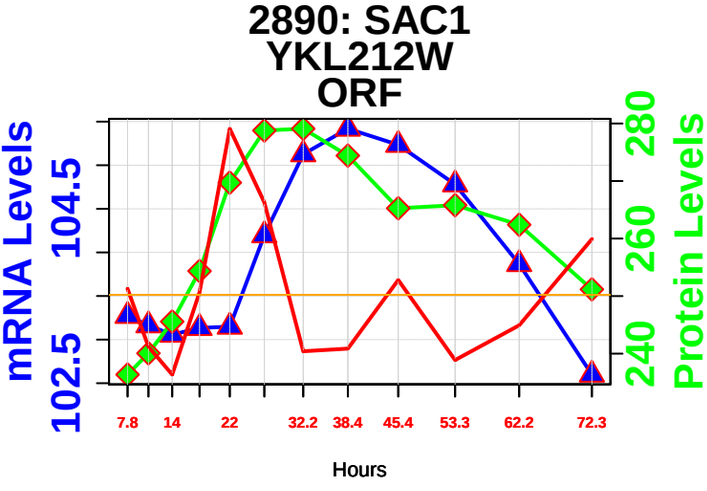

996: MSS4
YDR208W
ORF
mRNA Levels
18
21
24
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

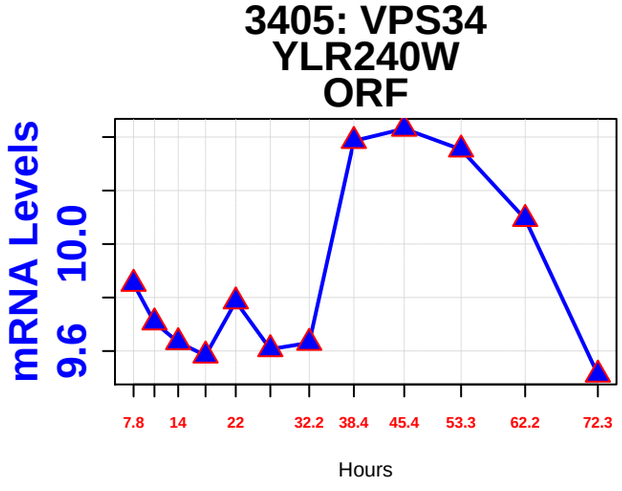

1094: IPK1
YDR315C
ORF
mRNA Levels
10
13
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

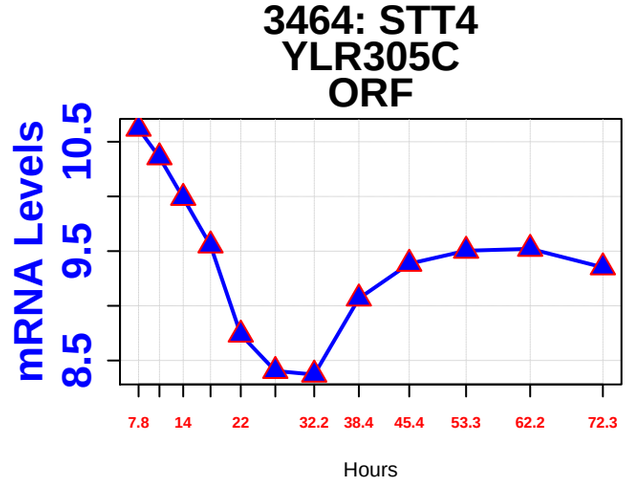

1449: INP51
YIL002C
ORF
mRNA Levels
6.5
8.0
9.5
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours


2659: LSB6
YJL100W
ORF
mRNA Levels
4
6
8
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

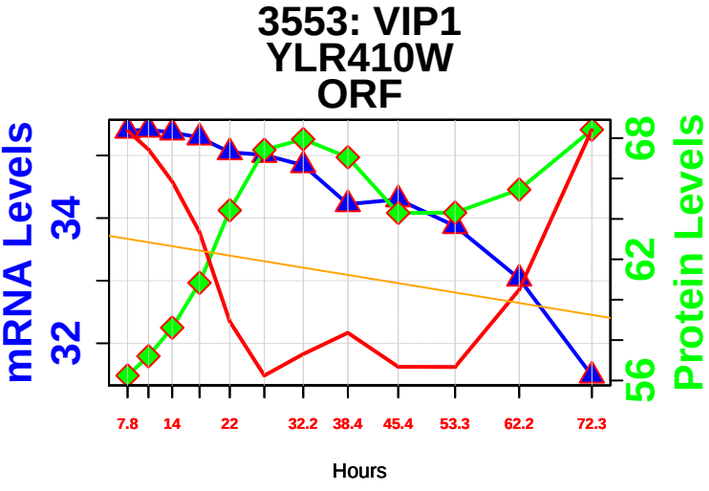

2836: YMR1
YJR110W
ORF
mRNA Levels
9
11
13
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

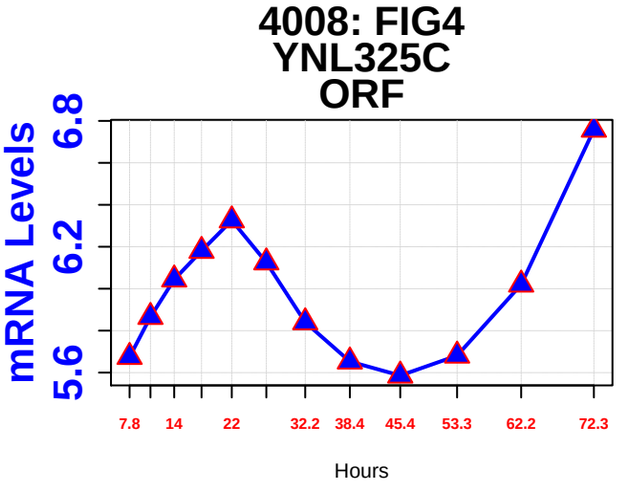

2890: SAC1
YKL212W
ORF
mRNA Levels
102.5
104.5
Protein Levels
240
260
280
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

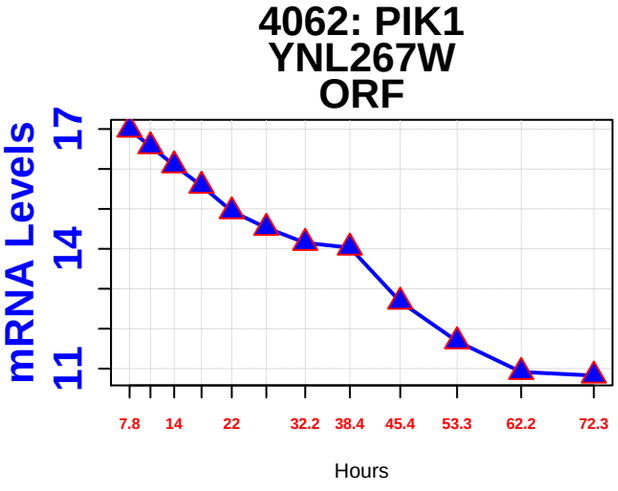

3405: VPS34
YLR240W
ORF
mRNA Levels
9.6
10.0
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

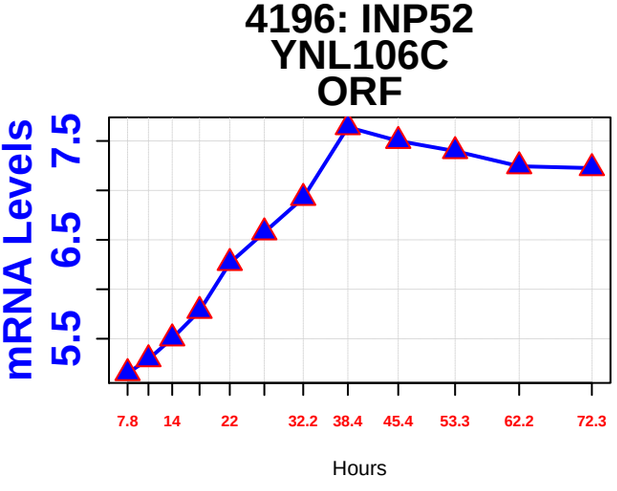

3464: STT4
YLR305C
ORF
mRNA Levels
8.5
9.5
10.5
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

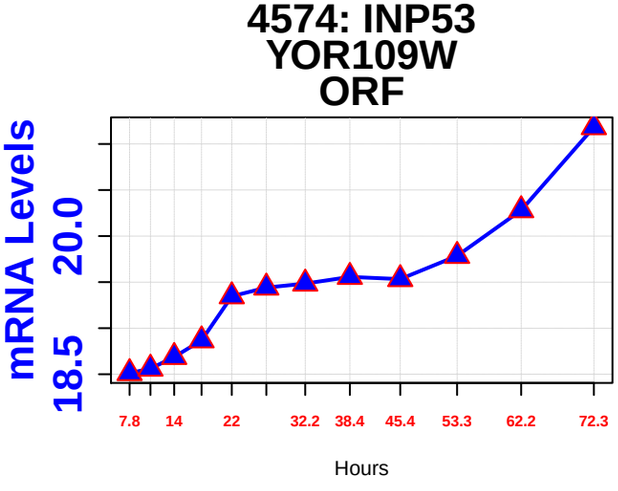
inositol phosphate biosynthesis

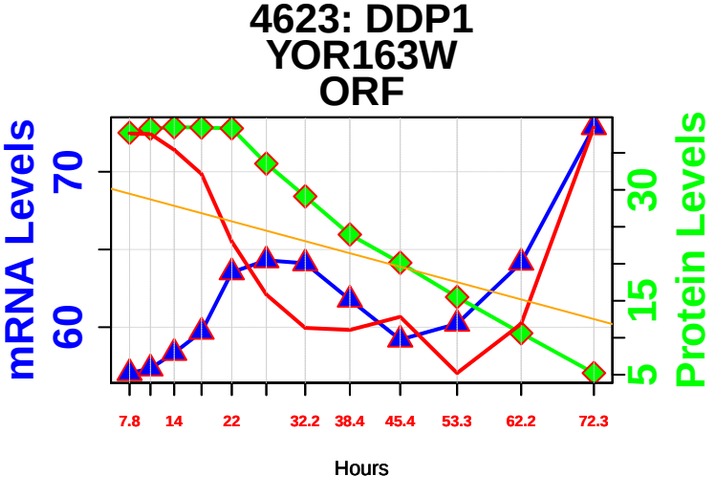


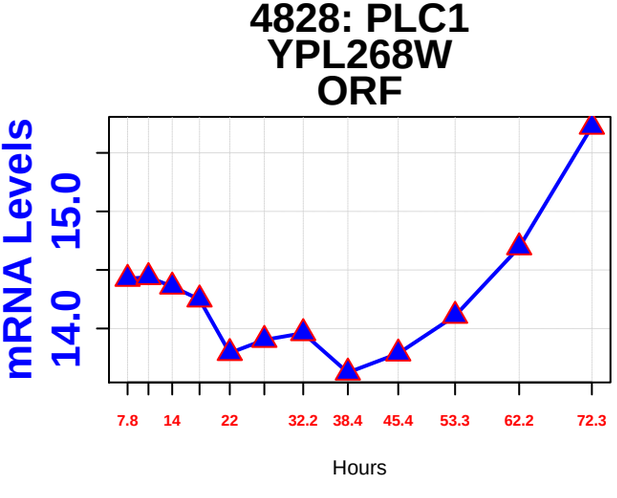




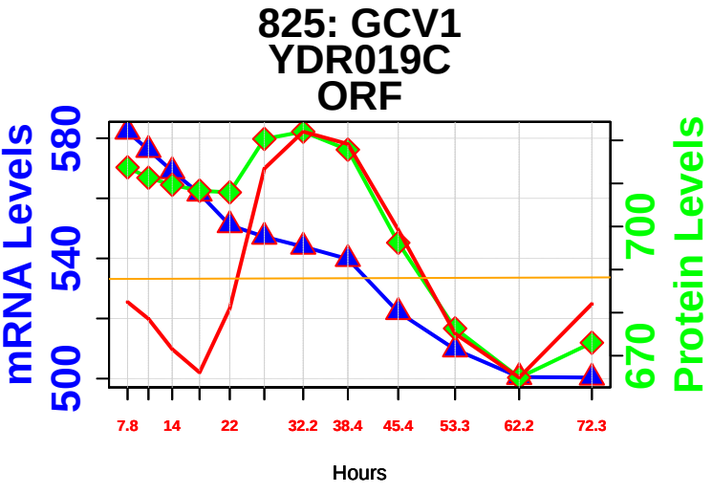


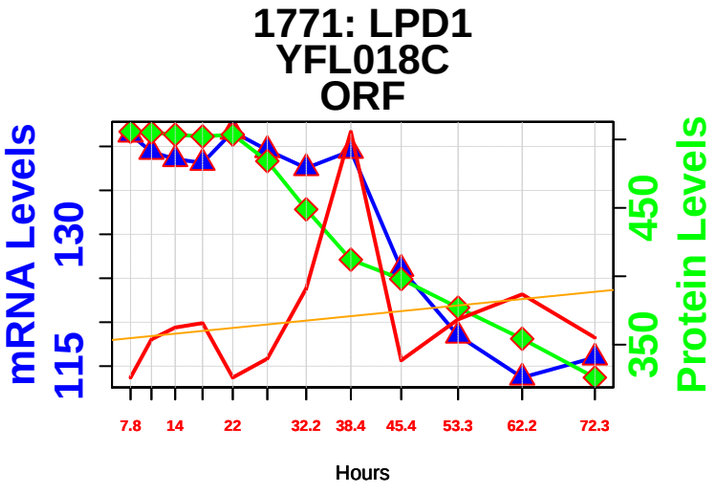


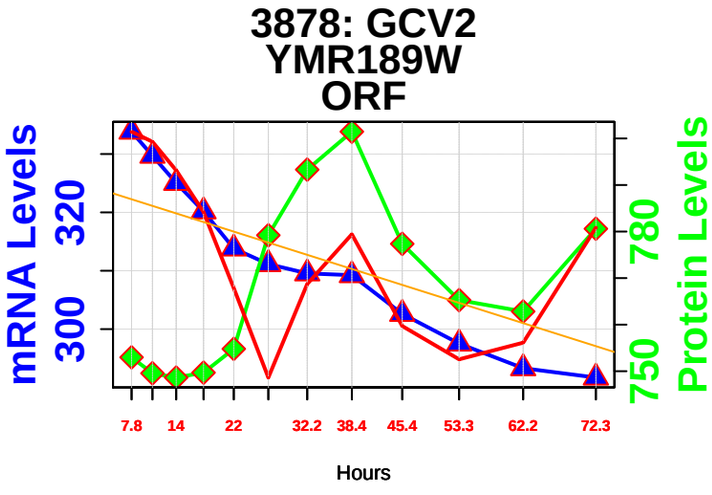




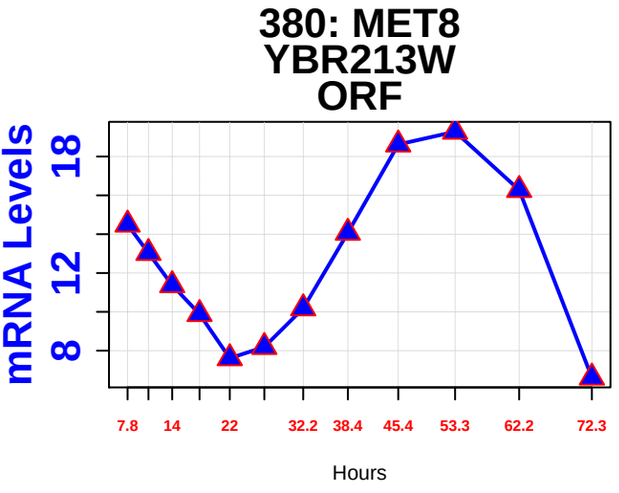
glycine cleavage complex

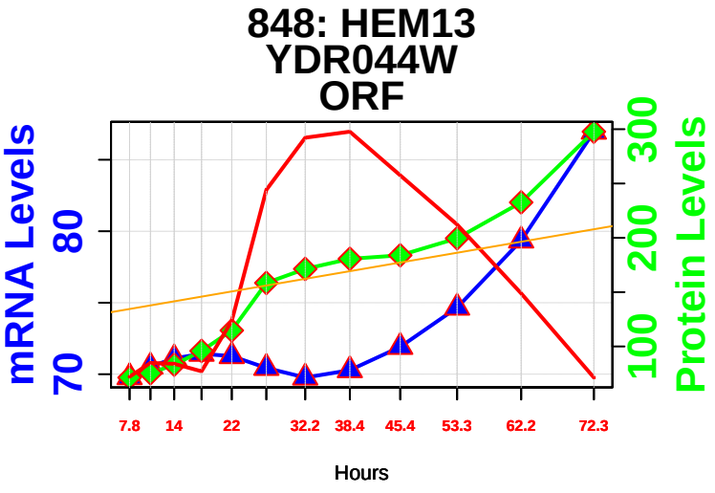


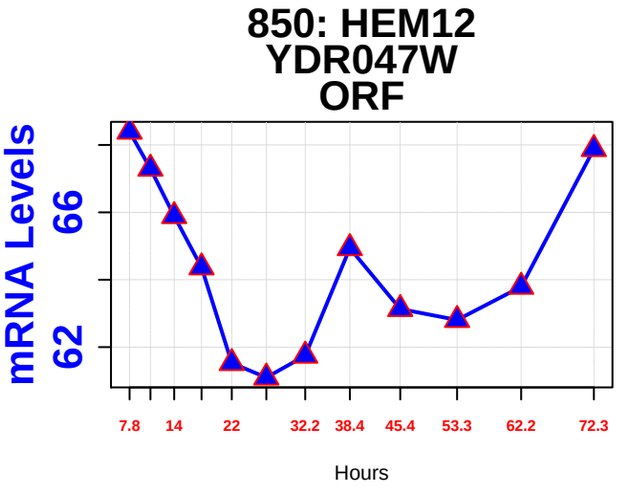


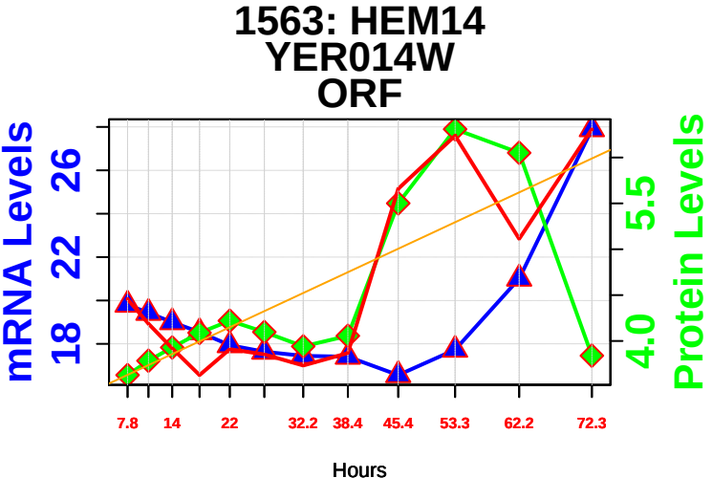


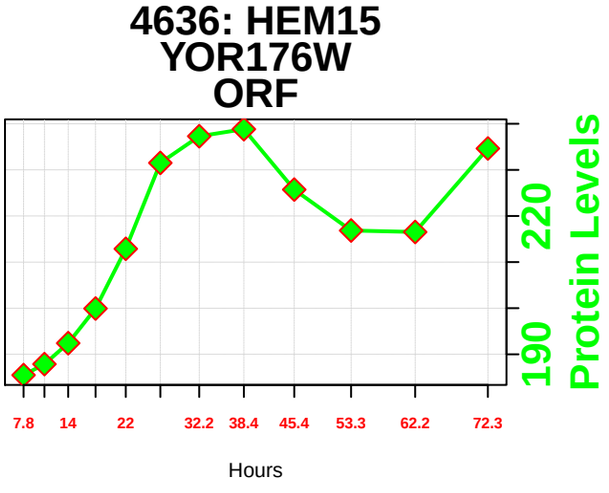
phospholipid biosynthesis III (Kennedy pathway)



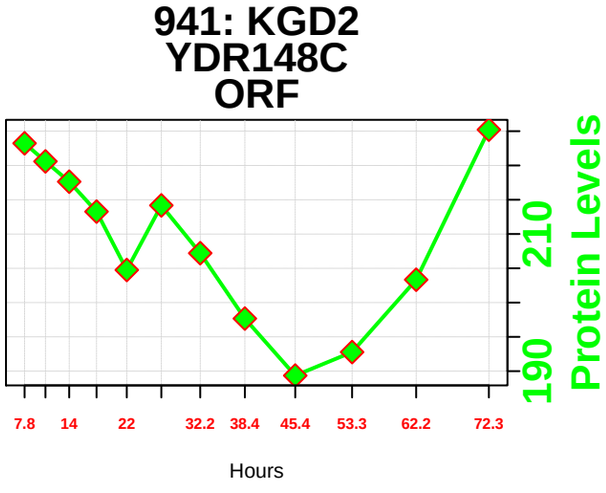


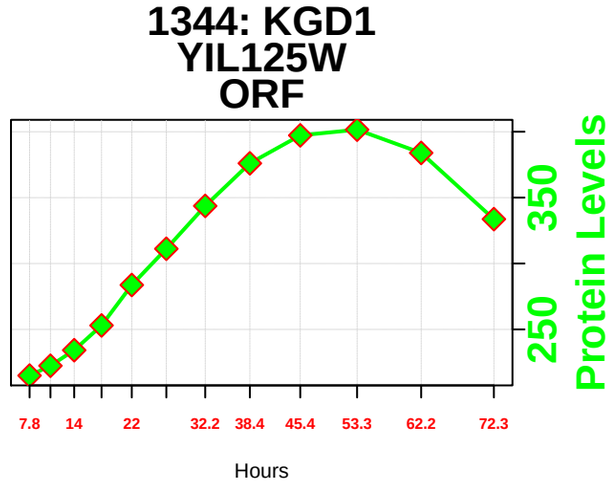


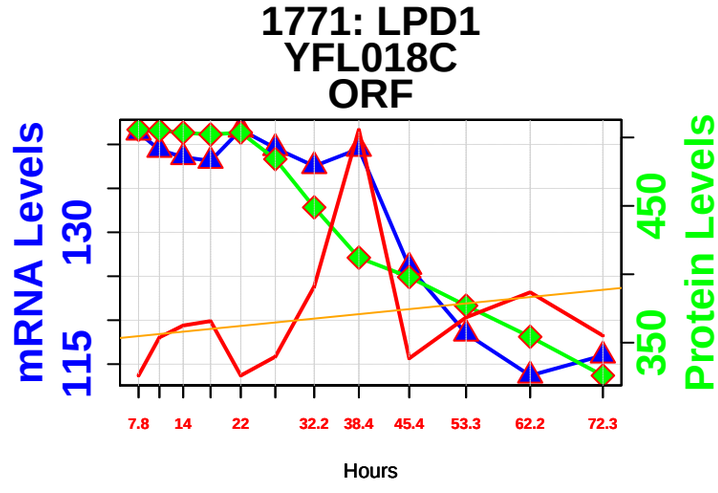




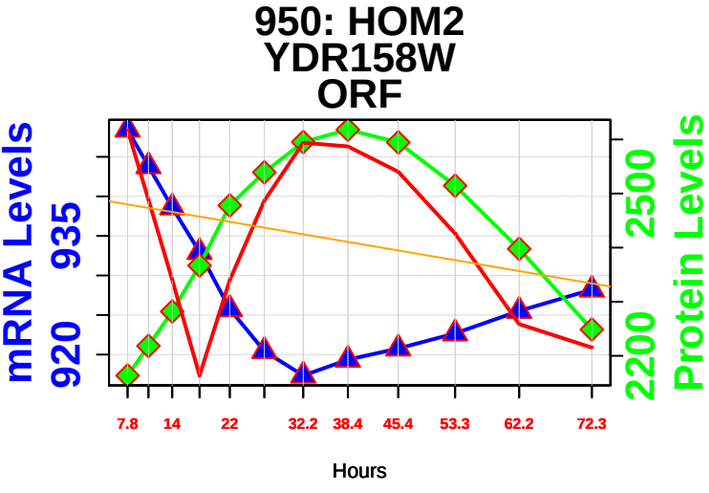
2−ketoglutarate dehydrogenase complex

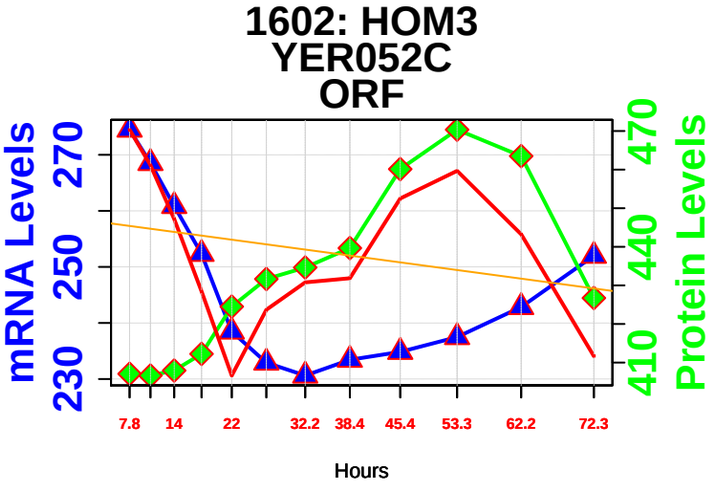


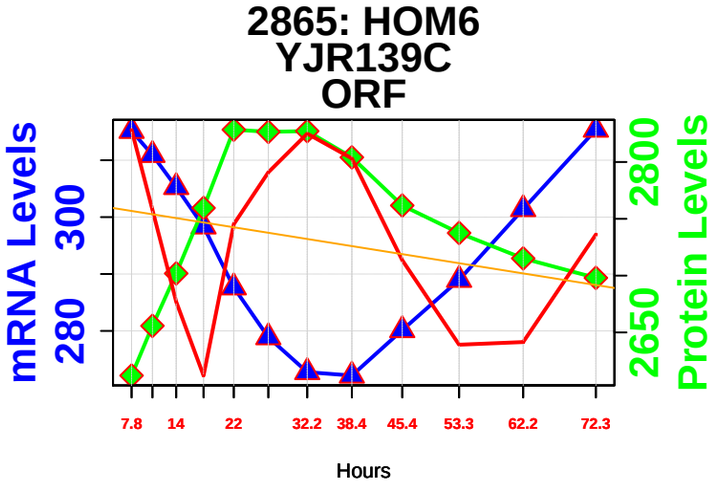


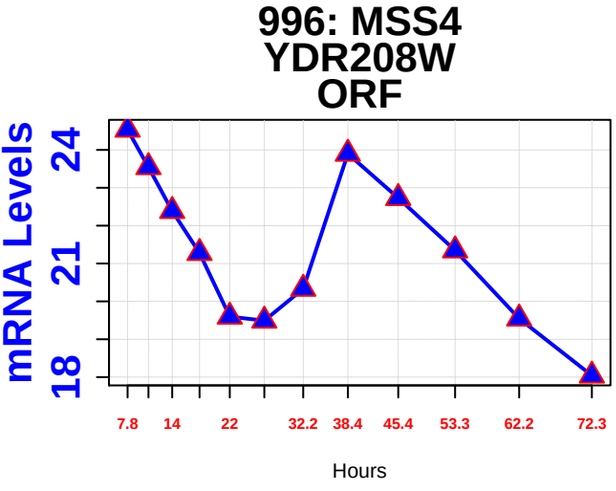


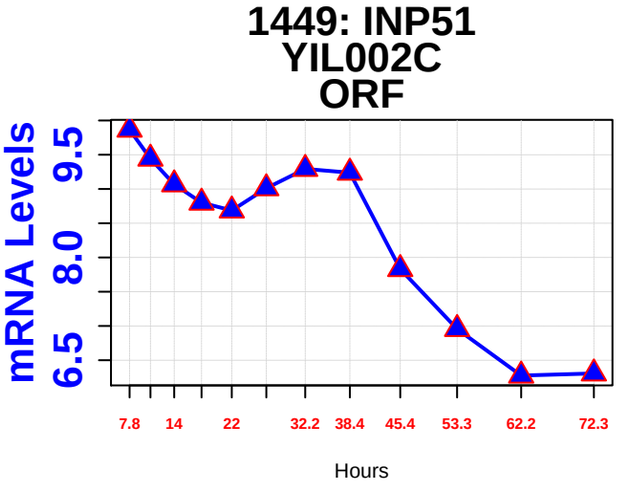
homoserine biosynthesis

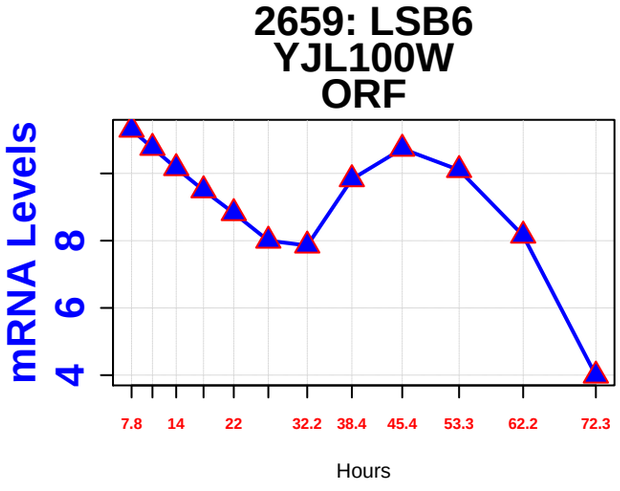


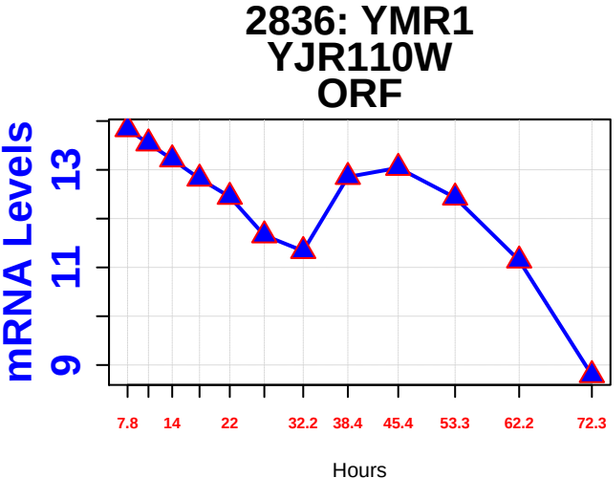


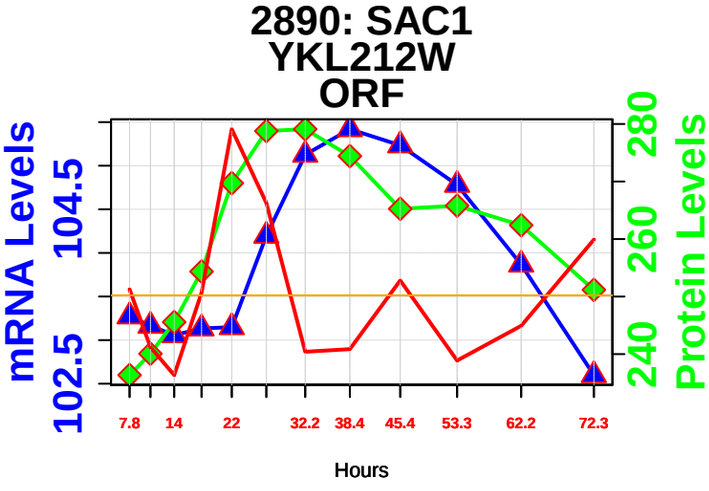


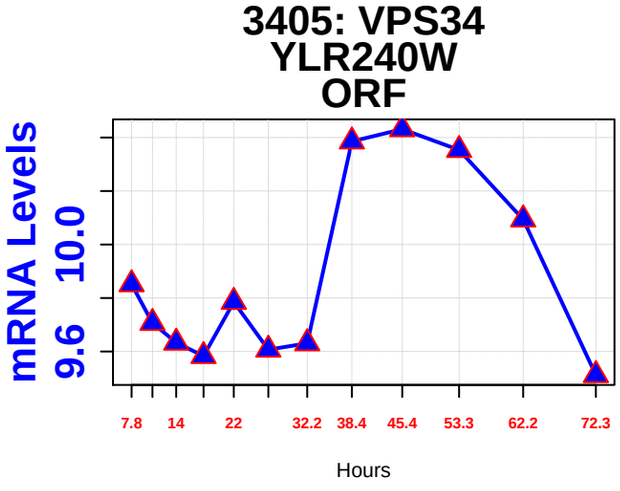

996: MSS4
YDR208W
ORF
mRNA Levels
18
21
24
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

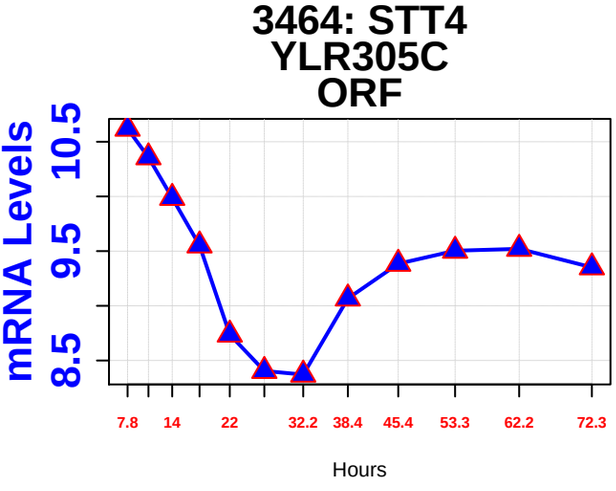

1449: INP51
YIL002C
ORF
mRNA Levels
6.5
8.0
9.5
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

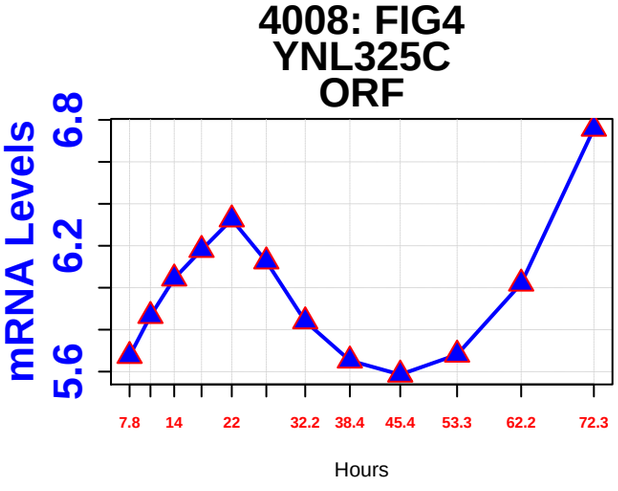

2659: LSB6
YJL100W
ORF
mRNA Levels
4
6
8
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

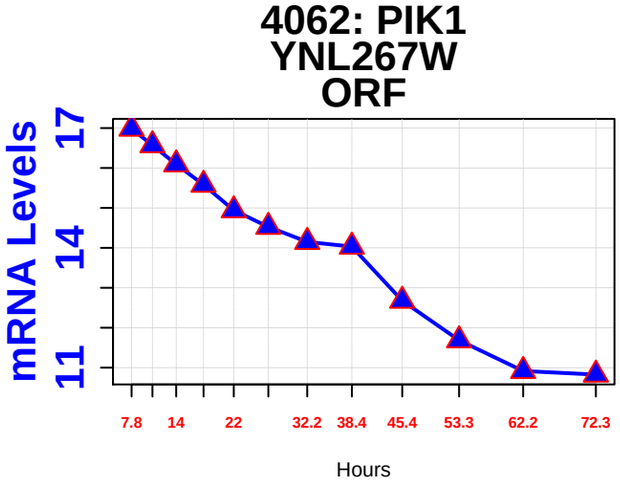

2836: YMR1
YJR110W
ORF
mRNA Levels
9
11
13
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours


2890: SAC1
YKL212W
ORF
mRNA Levels
102.5
104.5
Protein Levels
240
260
280
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

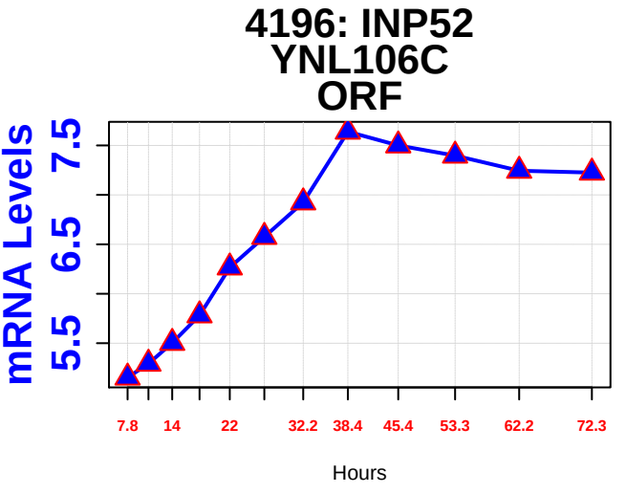

3405: VPS34
YLR240W
ORF
mRNA Levels
9.6
10.0
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

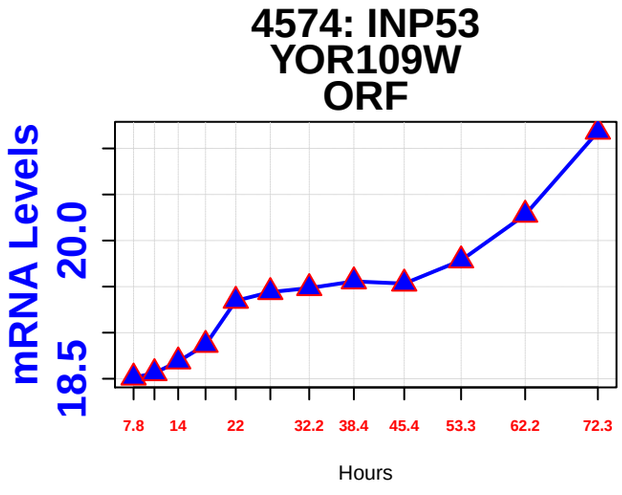

3464: STT4
YLR305C
ORF
mRNA Levels
8.5
9.5
10.5
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours


4008: FIG4
YNL325C
ORF
mRNA Levels
5.6
6.2
6.8
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

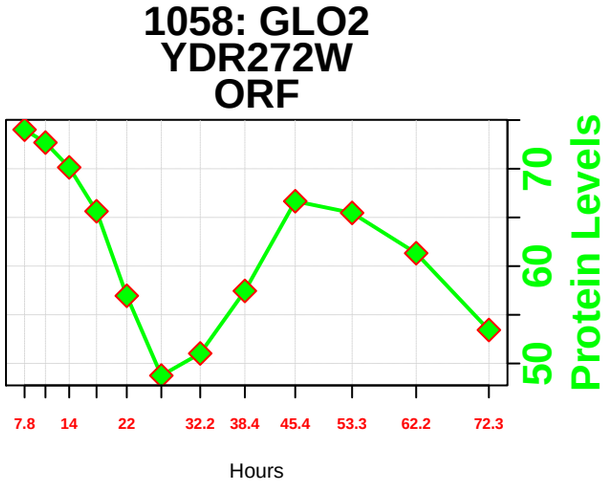

4062: PIK1
YNL267W
ORF
mRNA Levels
11
14
17
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

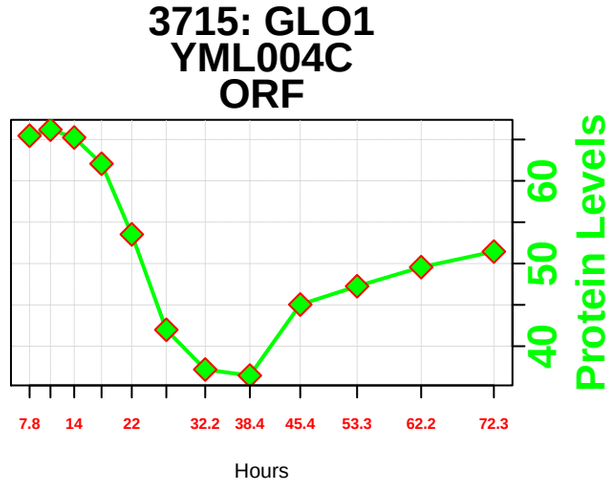
phosphatidylinositol phosphate biosynthesis



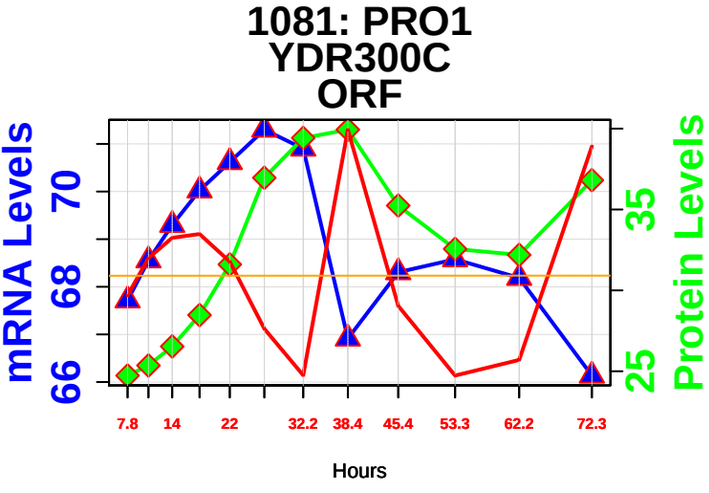


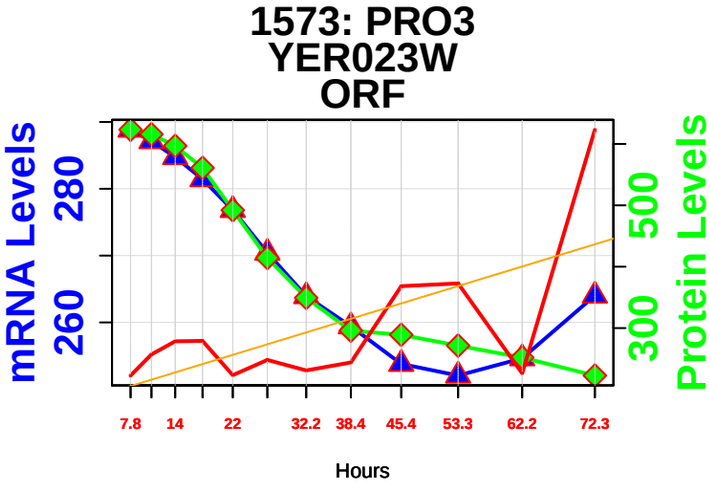
methylglyoxal catabolism

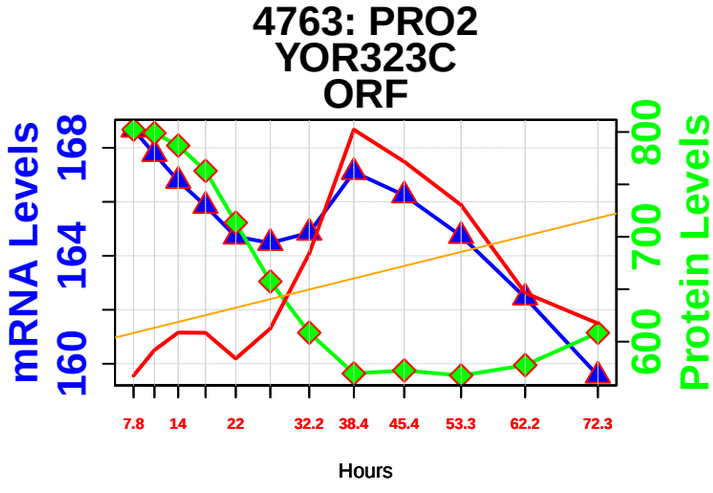




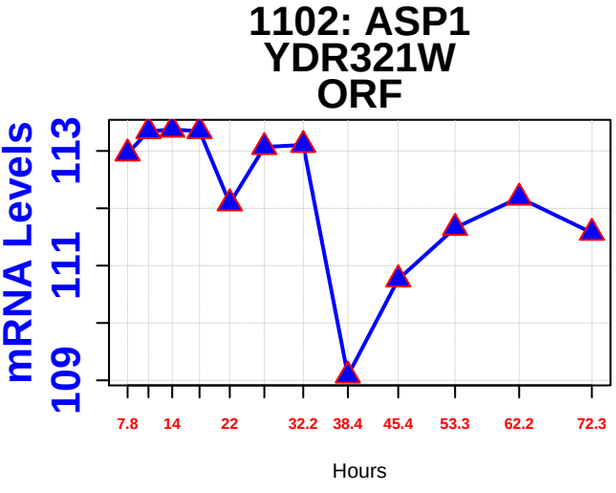
proline biosynthesis

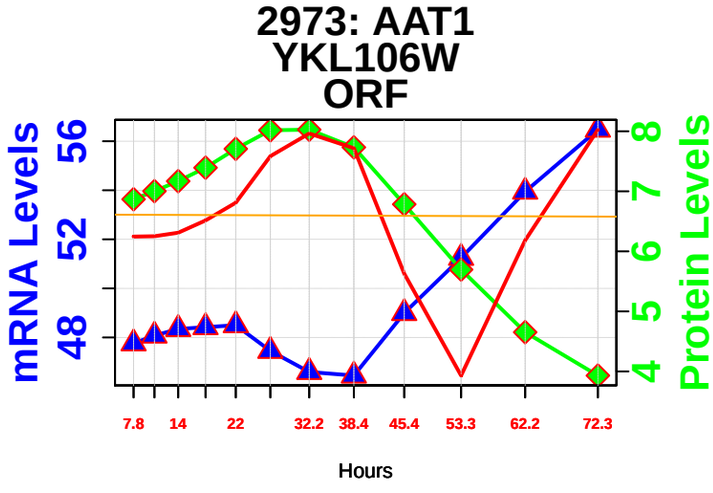


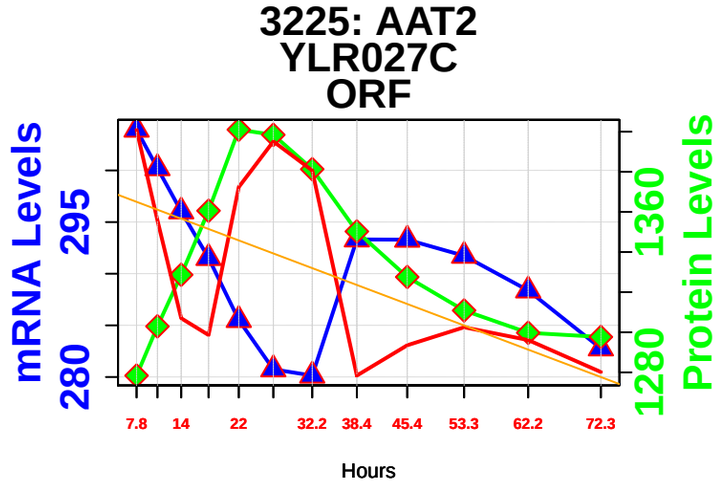


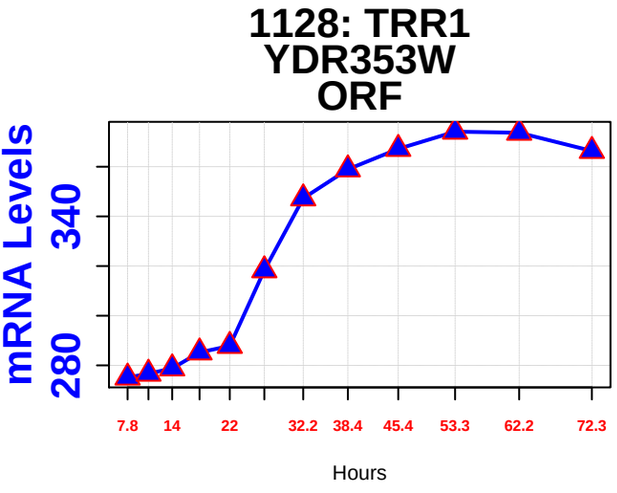


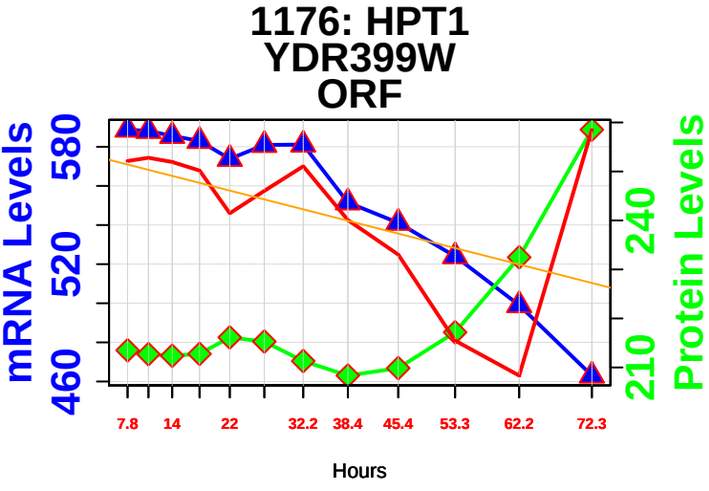
asparagine degradation

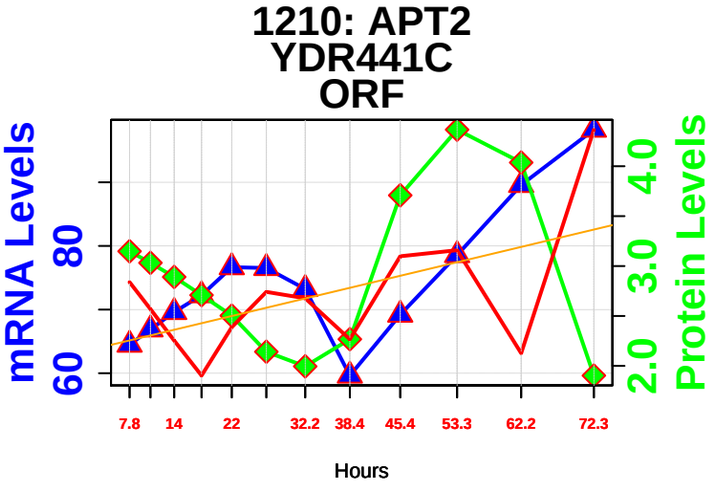


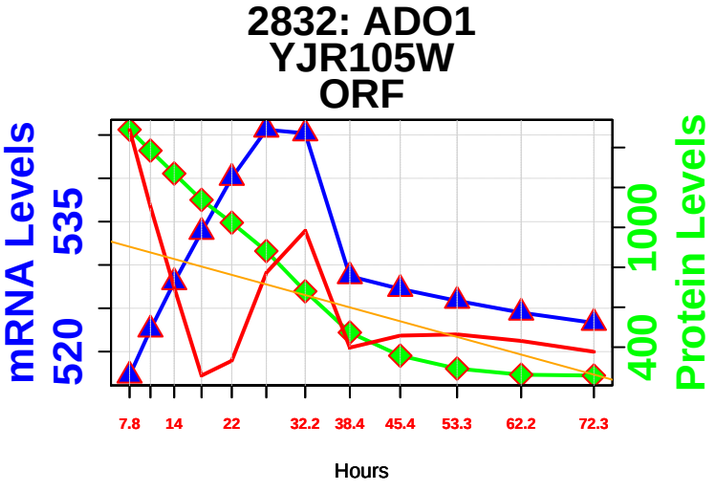


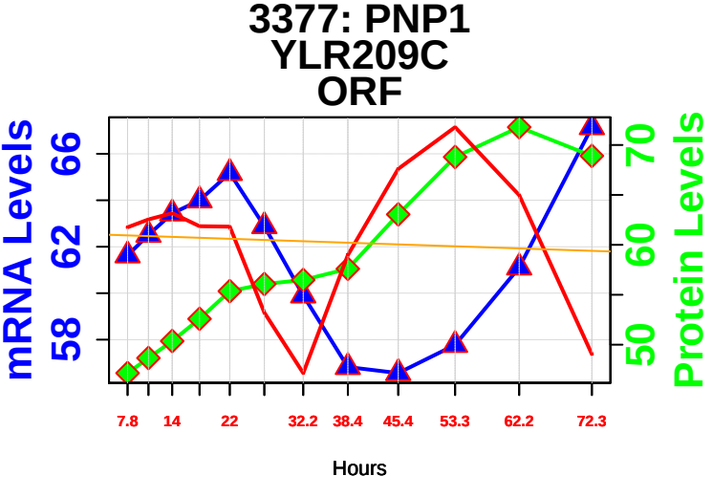


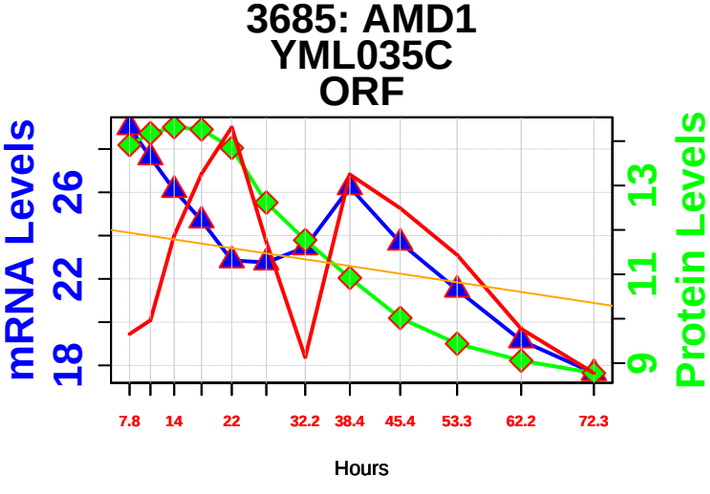

1128: TRR1
YDR353W
ORF
mRNA Levels
280
340
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

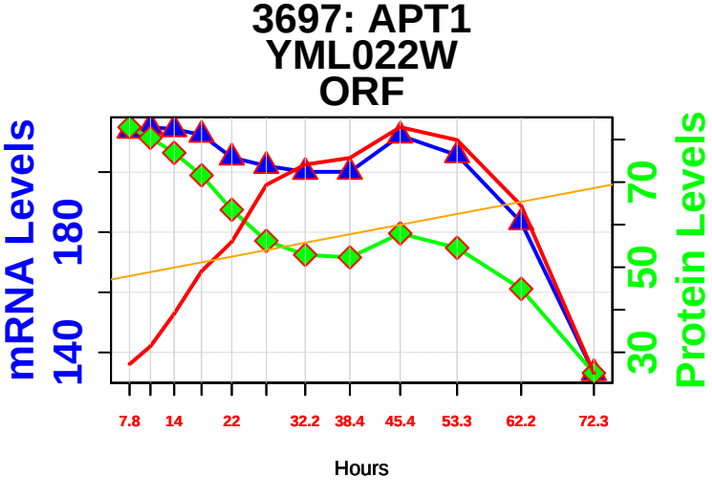

1176: HPT1
YDR399W
ORF
mRNA Levels
460
520
580
Protein Levels
210
240
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

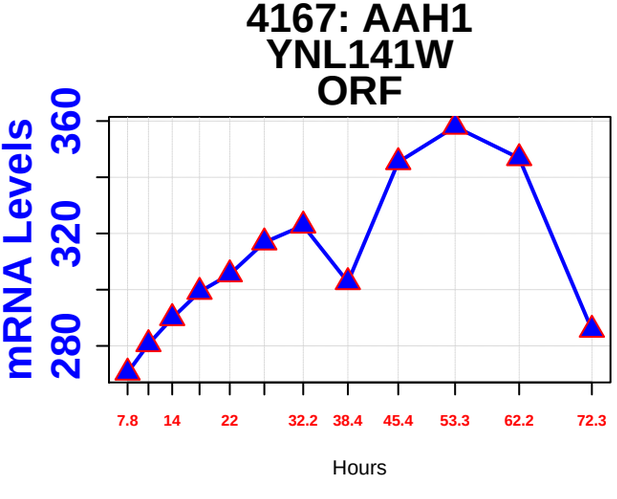

1210: APT2
YDR441C
ORF
mRNA Levels
60
80
Protein Levels
2.0
3.0
4.0
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours


2832: ADO1
YJR105W
ORF
mRNA Levels
520
535
Protein Levels
400
1000
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

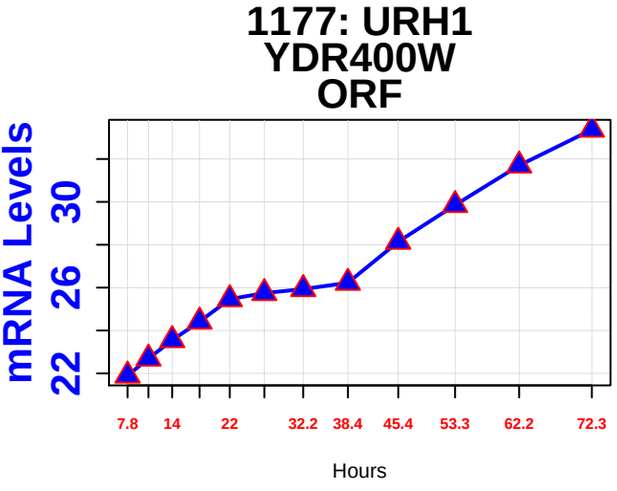

3377: PNP1
YLR209C
ORF
mRNA Levels
58
62
66
Protein Levels
50
60
70
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

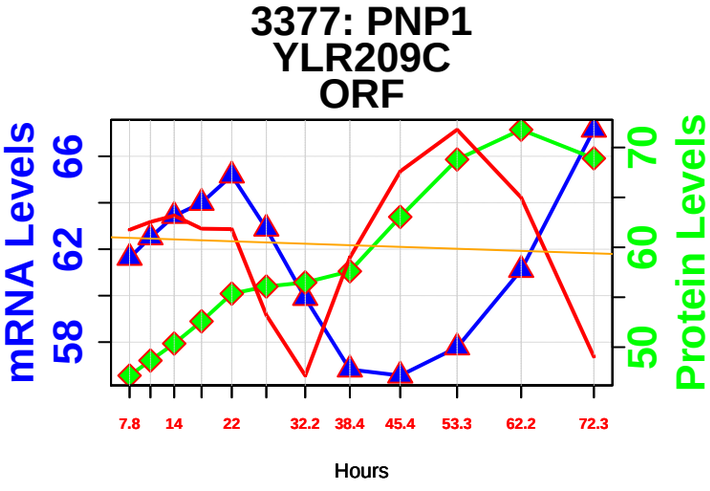

3685: AMD1
YML035C
ORF
mRNA Levels
18
22
26
Protein Levels
9
11
13
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours


3697: APT1
YML022W
ORF
mRNA Levels
140
180
Protein Levels
30
50
70
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

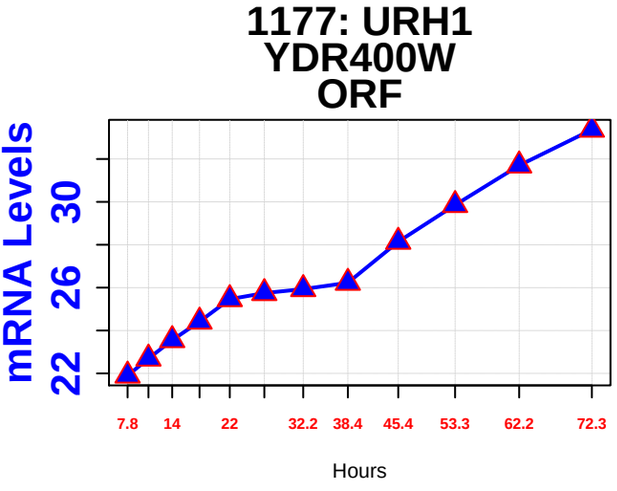

4167: AAH1
YNL141W
ORF
mRNA Levels
280
320
360
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

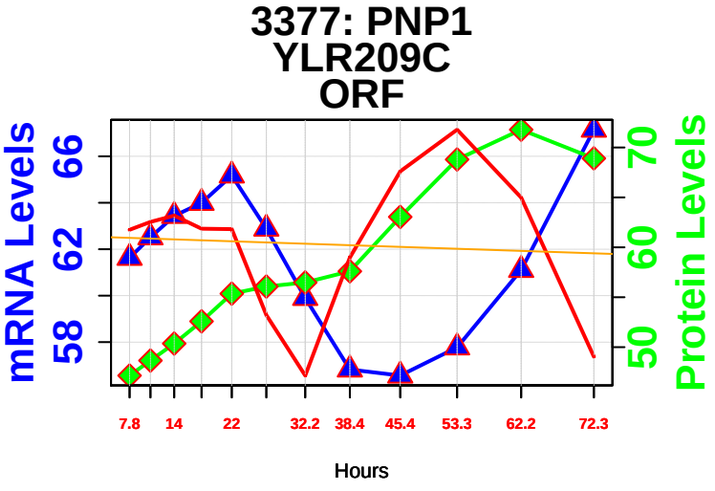
nicotinamide riboside salvage pathway II



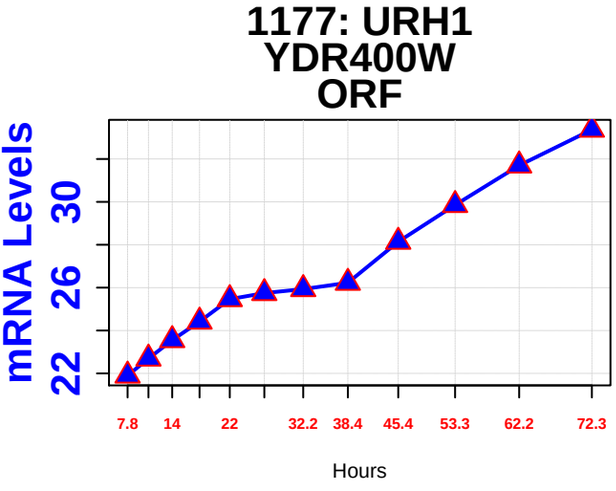


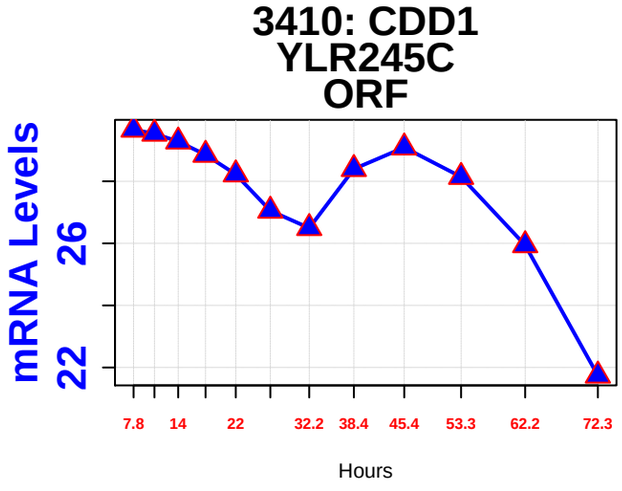
nicotinate riboside salvage pathway II



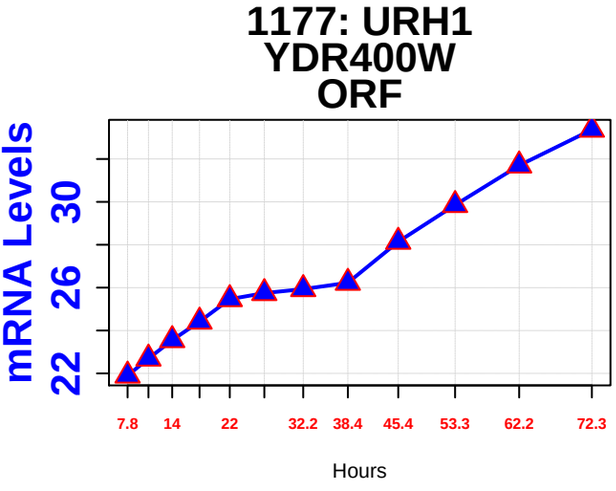


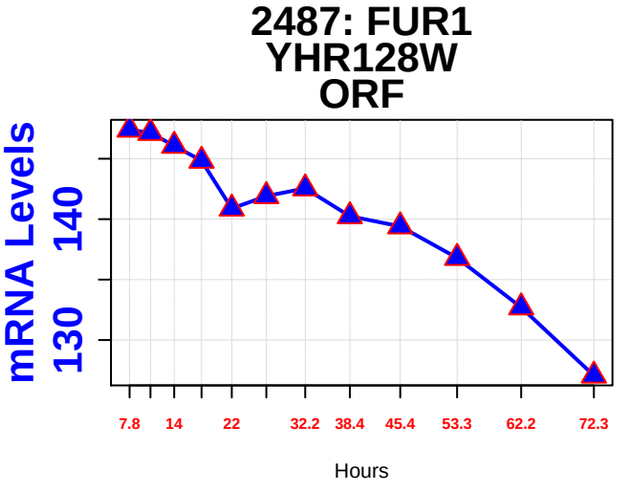
salvage pathways of pyrimidine deoxyribonucleotides

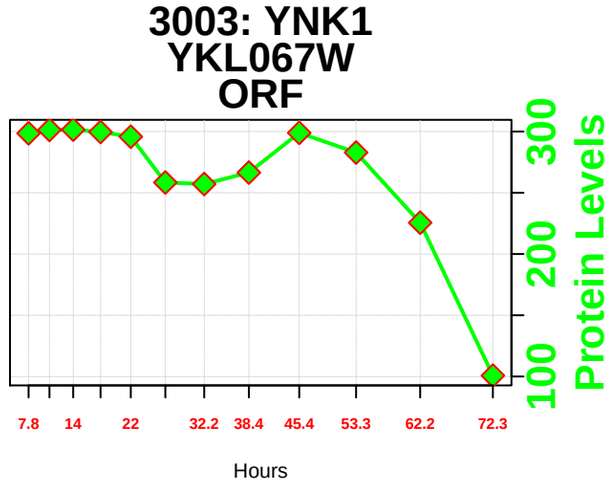


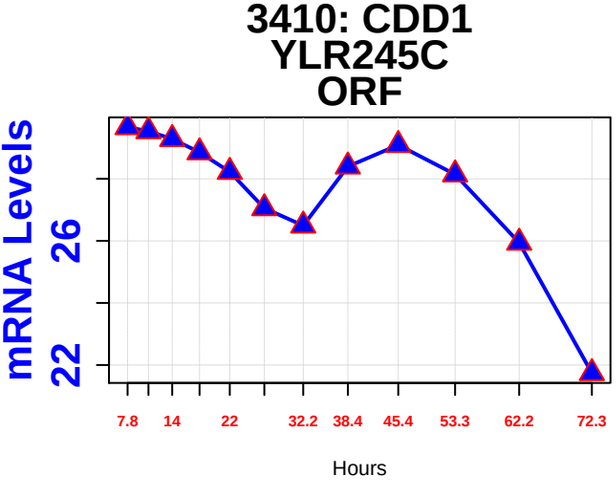


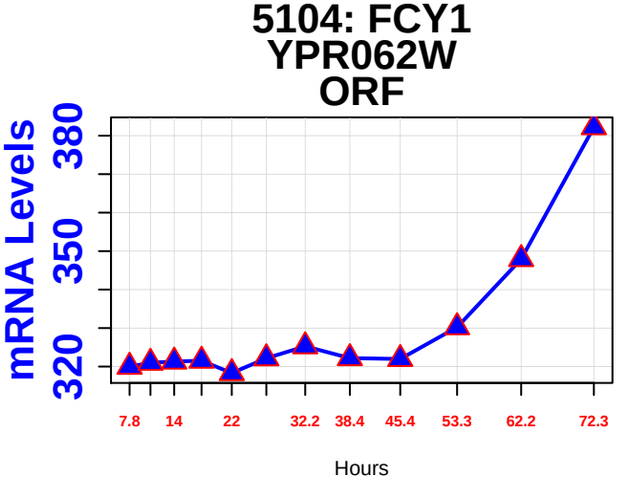
salvage pathways of pyrimidine ribonucleotides



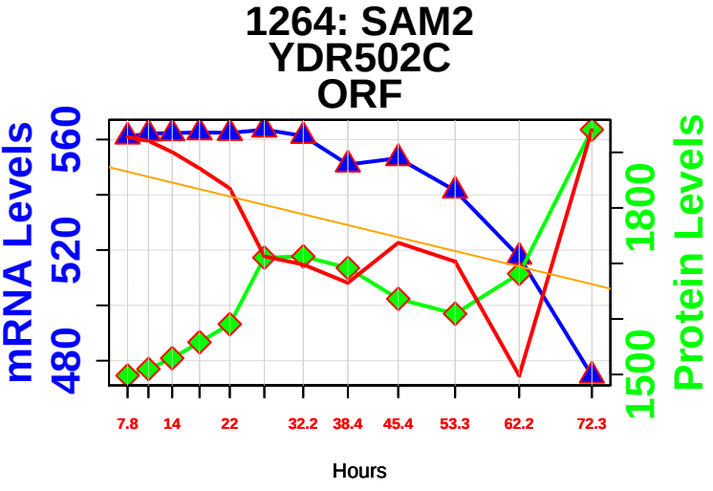


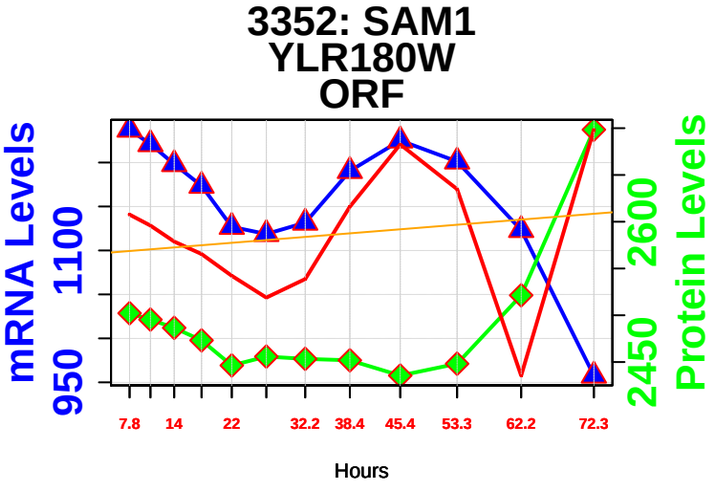




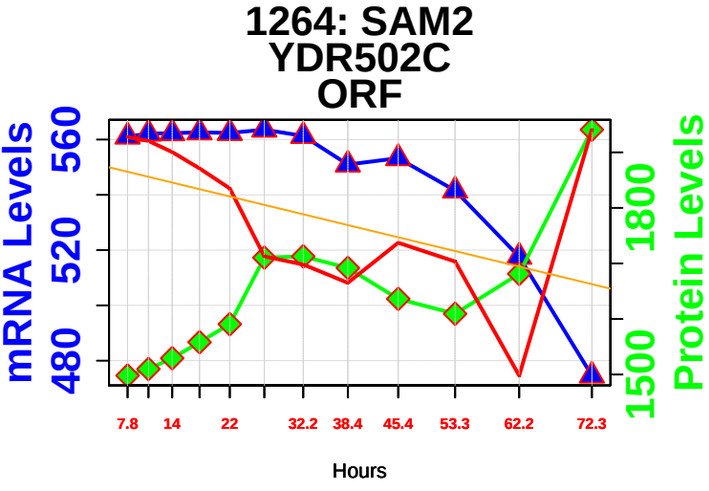


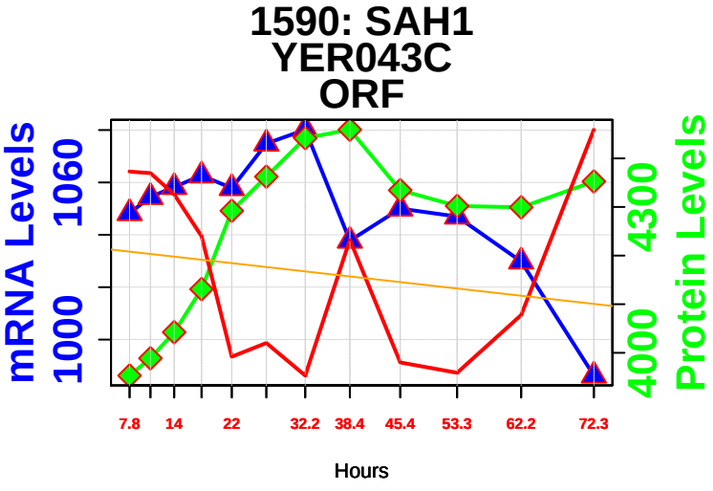
S−adenosylmethionine biosynthesis

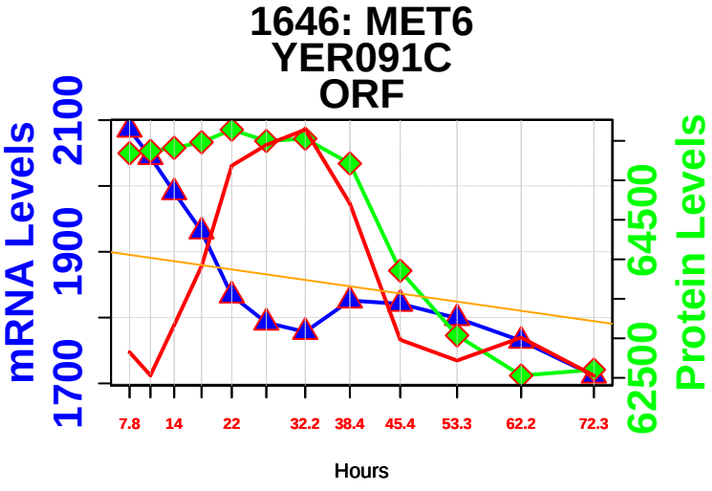


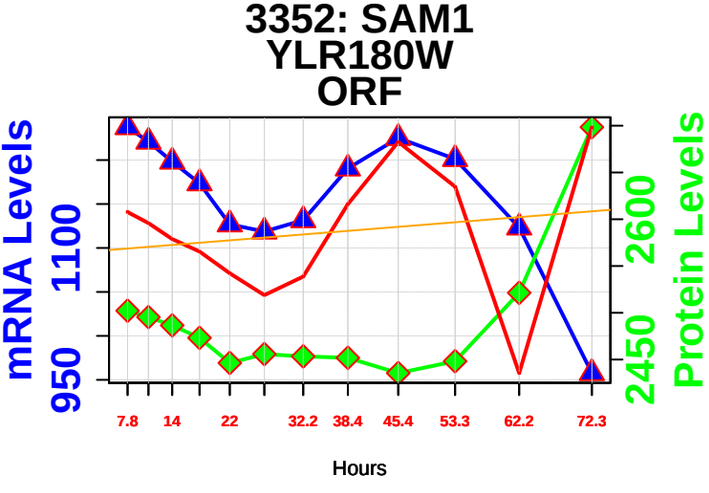


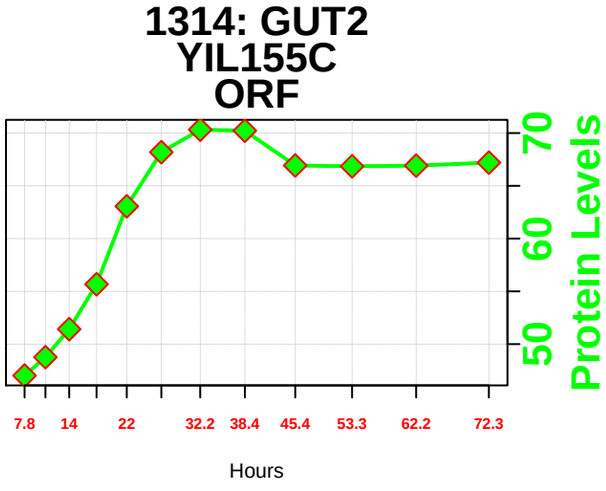
S−adenosylmethionine cycle





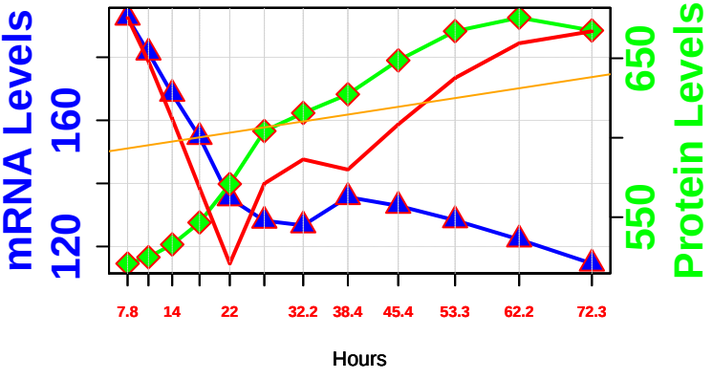




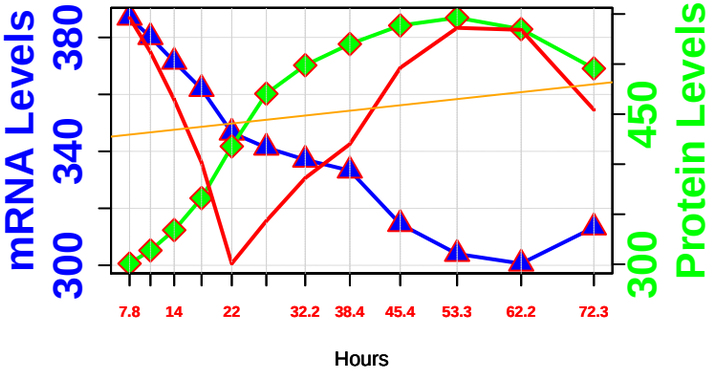

1314: GUT2
YIL155C
ORF
70
60
50
Protein Levels
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

serine biosynthesis from 3−phosphoglycerate

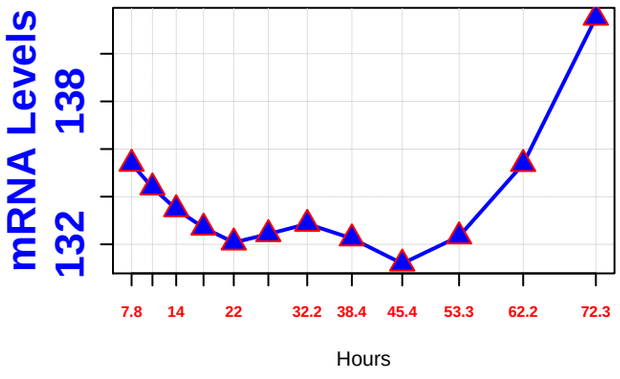
1383: SER33
YIL074C
ORF



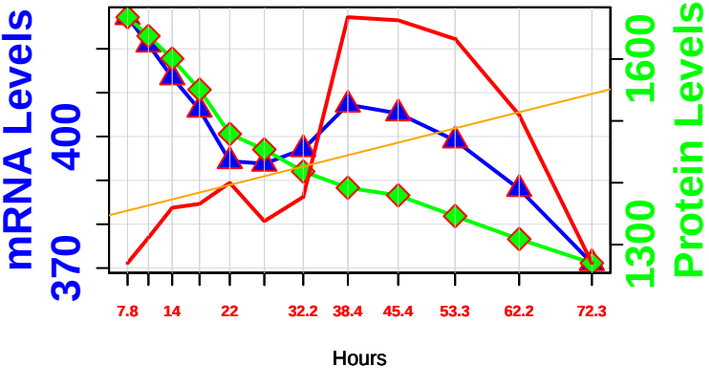
1632: SER3
YER081W
ORF

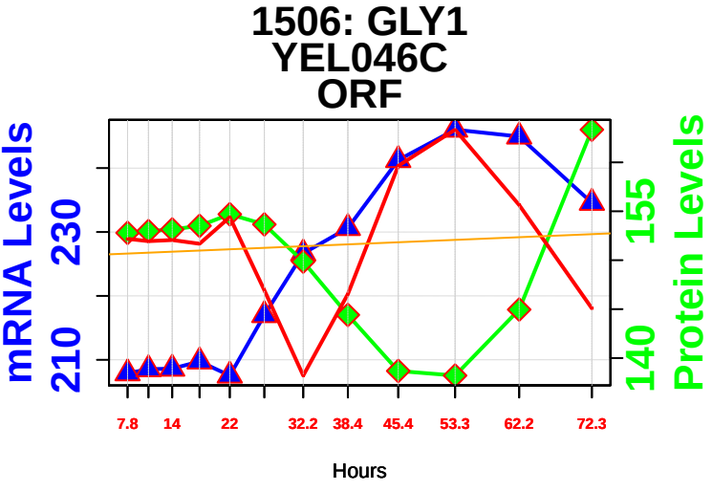


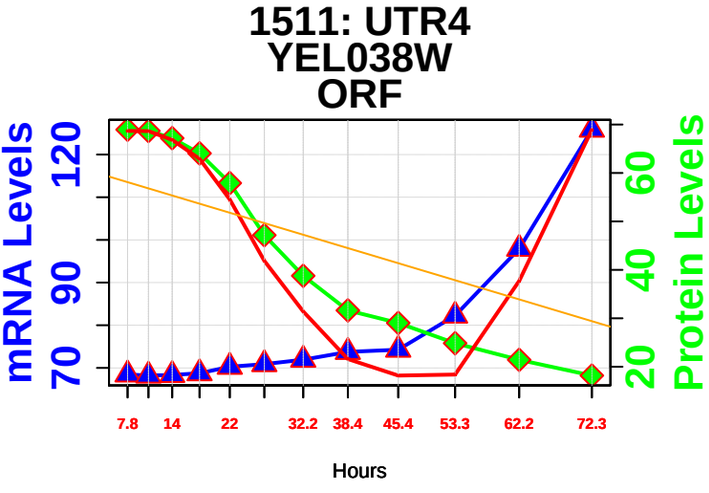
2251: SER2
YGR208W
ORF

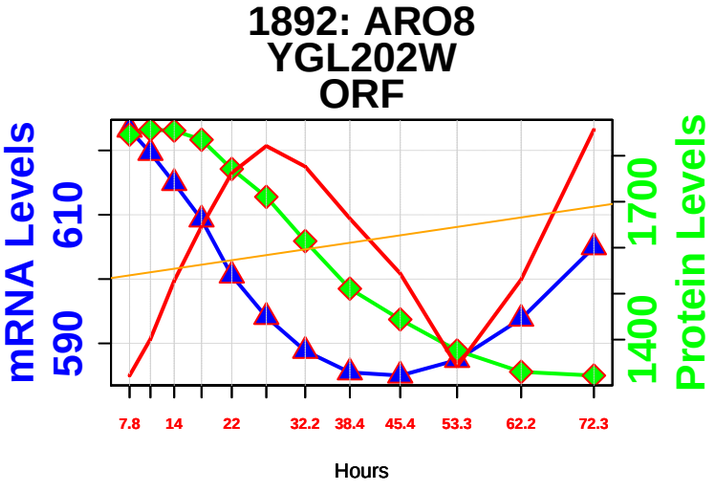


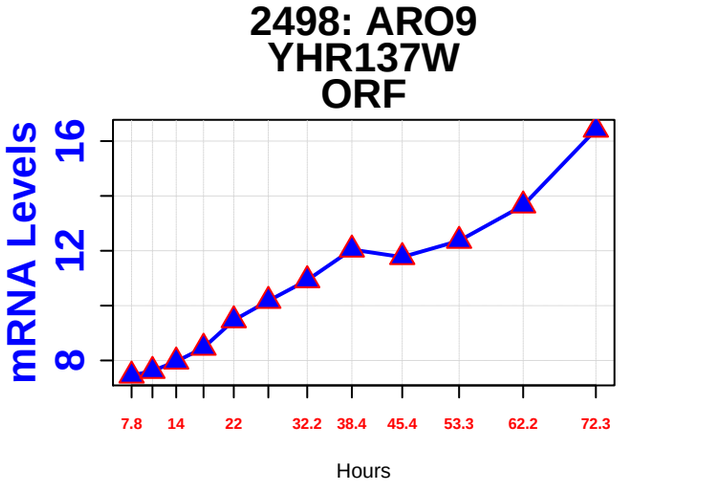
4639: SER1
YOR184W
ORF

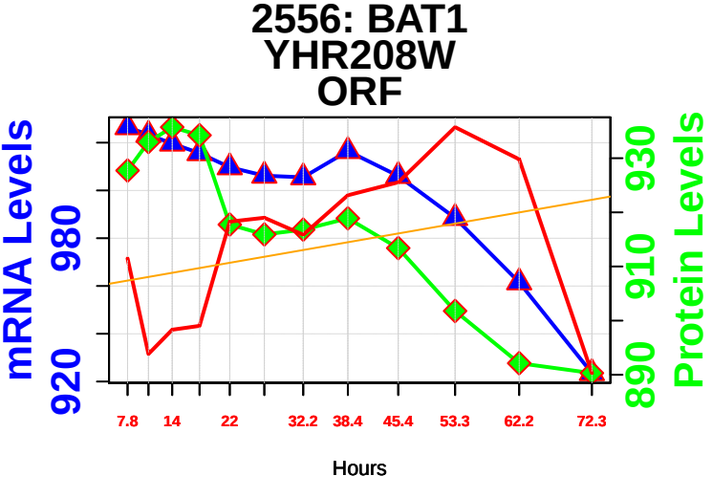


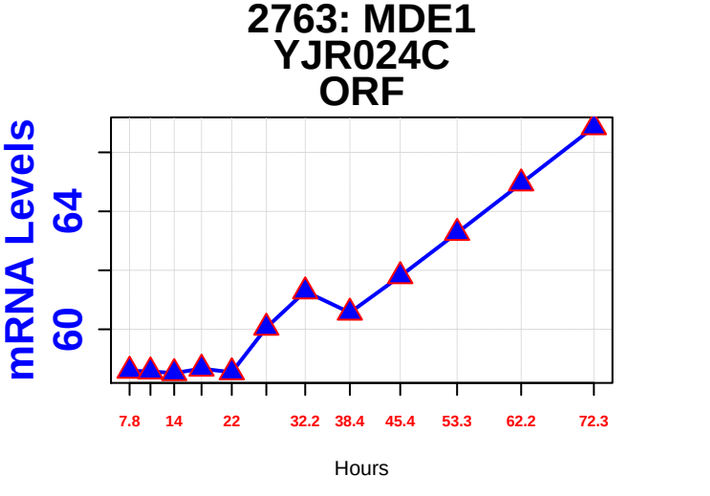

1506: GLY1
YEL046C
ORF
mRNA Levels
210
230
Protein Levels
140
155
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

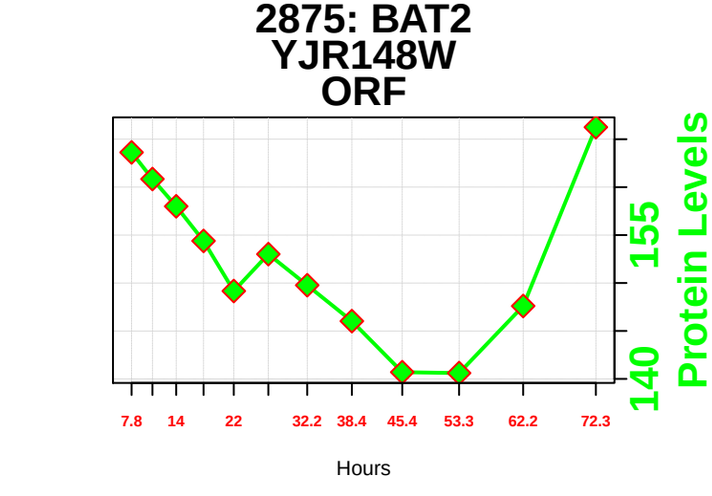

1511: UTR4
YEL038W
ORF
mRNA Levels
70
90
120
Protein Levels
20
40
60
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

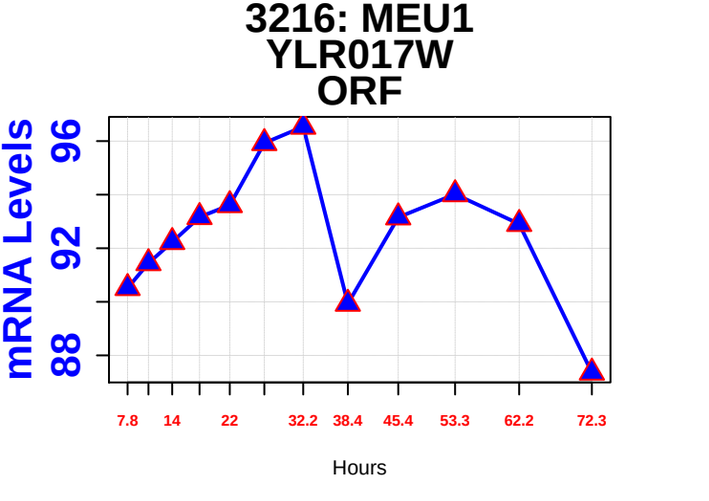

1892: ARO8
YGL202W
ORF
mRNA Levels
590
610
Protein Levels
1400
1700
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

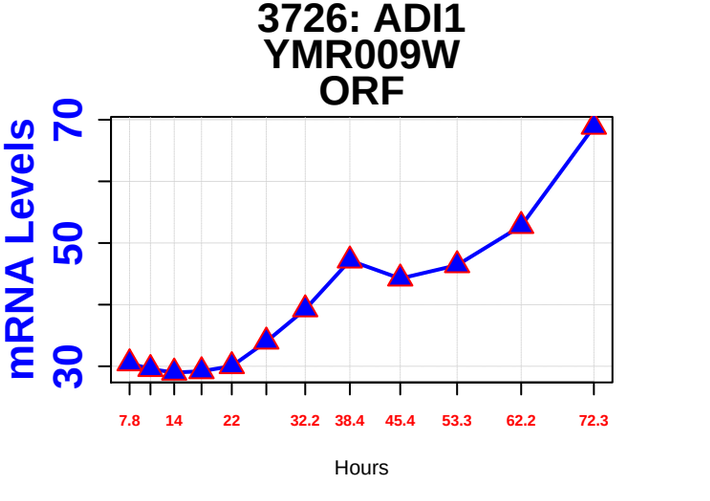

2498: ARO9
YHR137W
ORF
mRNA Levels
8
12
16
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

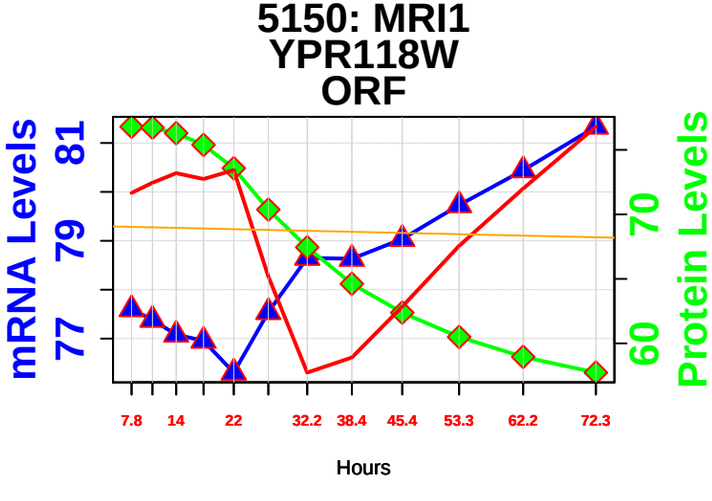

2556: BAT1
YHR208W
ORF
mRNA Levels
920
980
Protein Levels
890
910
930
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours


2763: MDE1
YJR024C
ORF
mRNA Levels
60
64
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

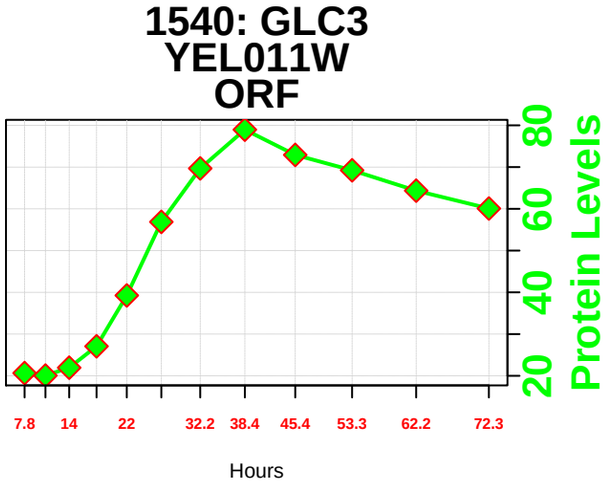

2875: BAT2
YJR148W
ORF
Protein Levels
140
155
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

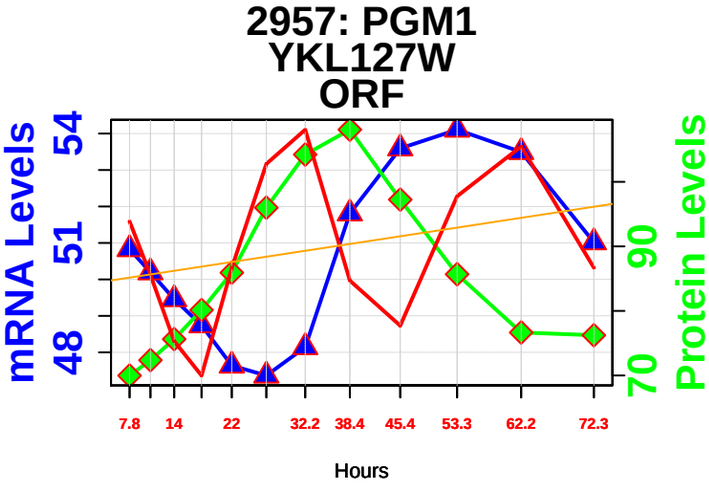

3216: MEU1
YLR017W
ORF
mRNA Levels
88
92
96
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

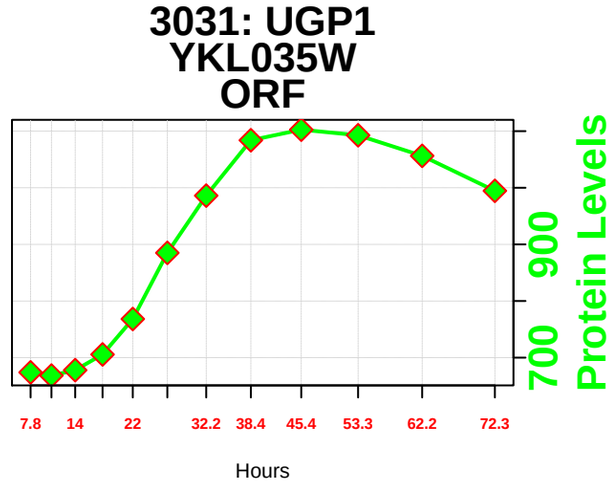

3726: ADI1
YMR009W
ORF
mRNA Levels
30
50
70
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

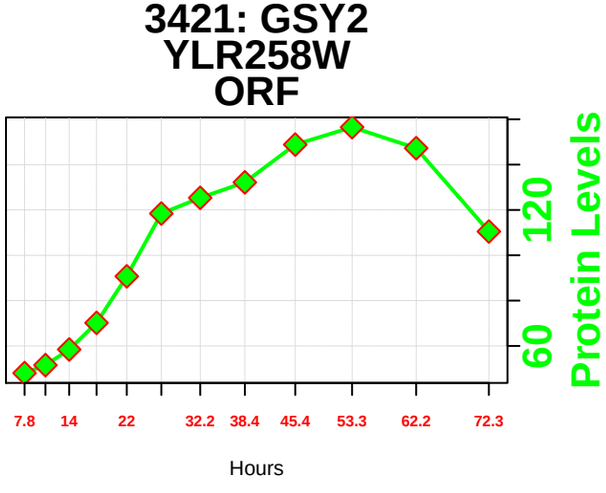

5150: MRI1
YPR118W
ORF
mRNA Levels
77
79
81
Protein Levels
60
70
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

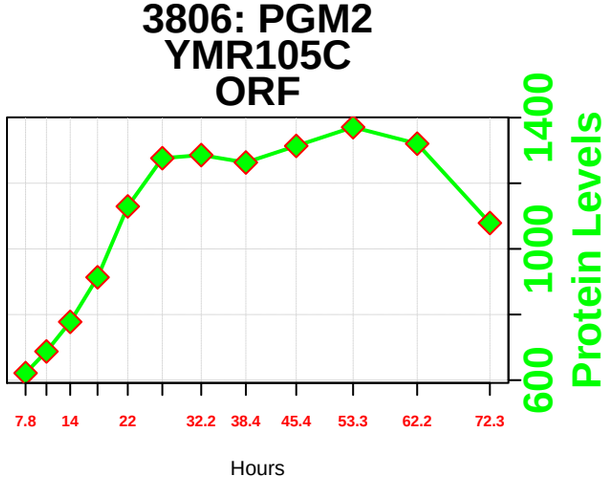
glycogen biosynthesis

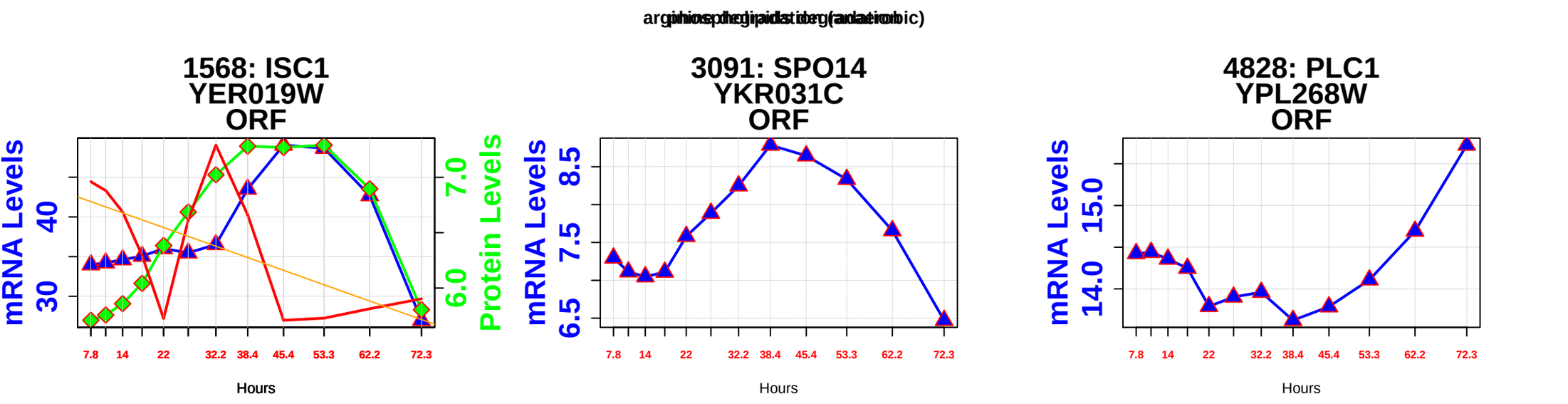




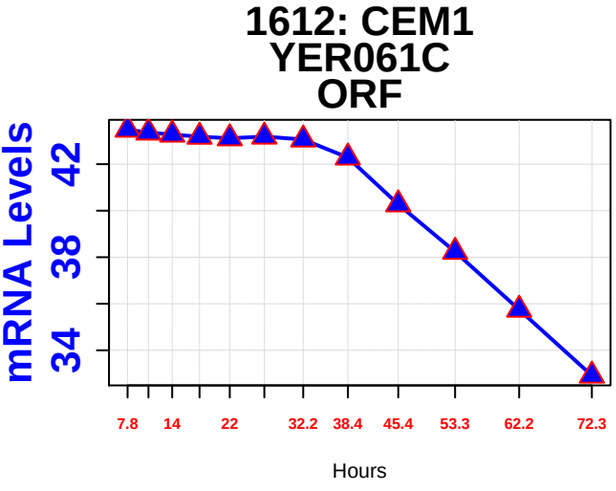


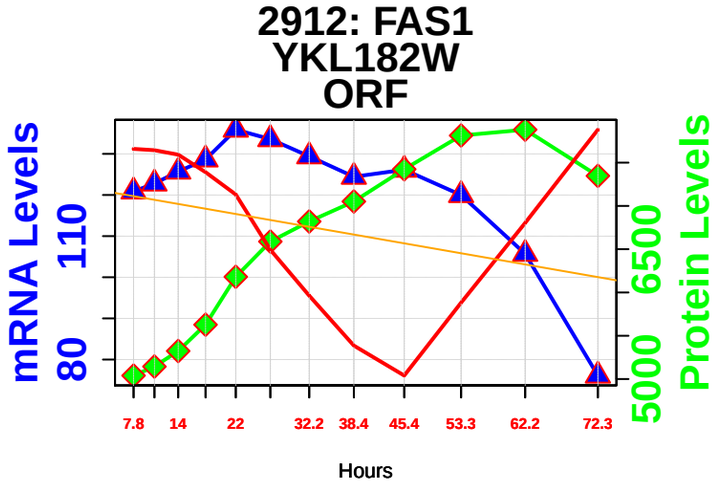


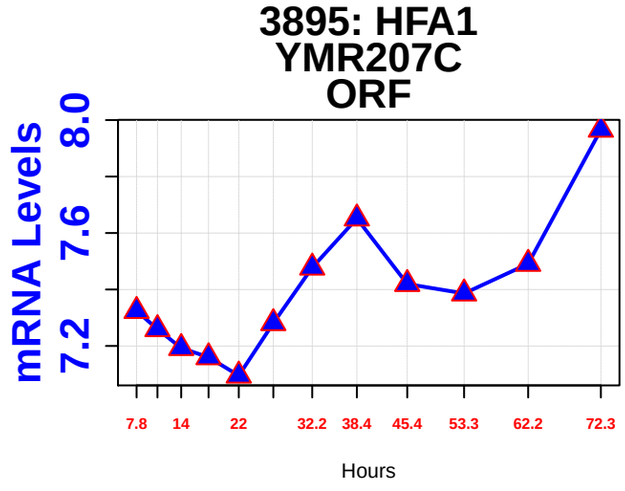


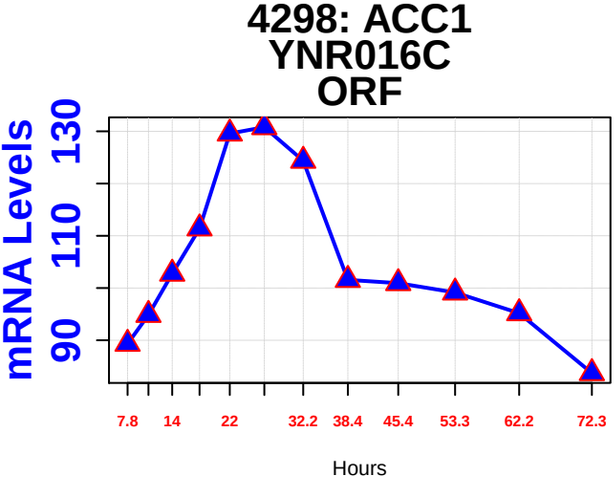

1568: ISC1
YER019W
ORF
mRNA Levels
Protein Levels
Hours
3091: SPO14
YKR031C
ORF
mRNA Levels
Hours
4828: PLC1
YPL268W
ORF
mRNA Levels
Hours

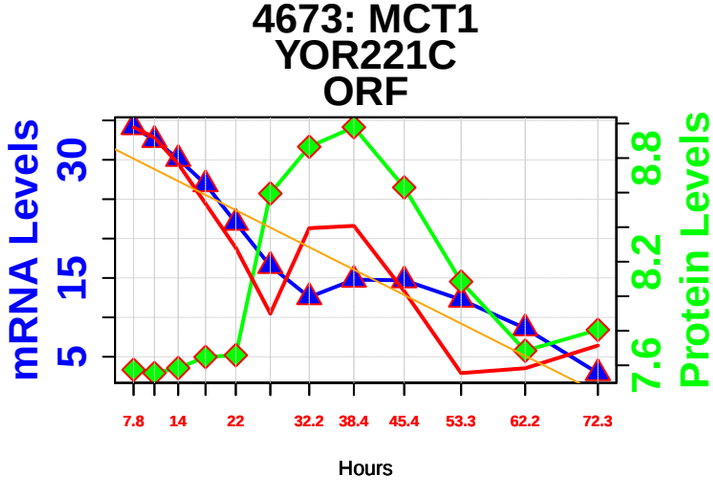
fatty acid biosynthesis, initial steps

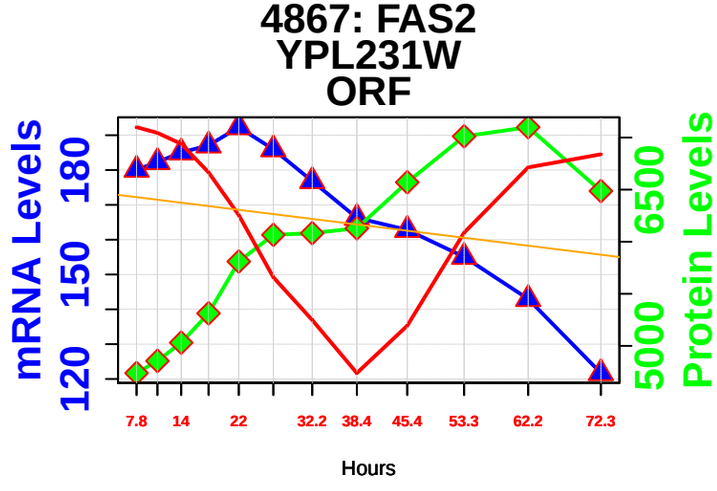




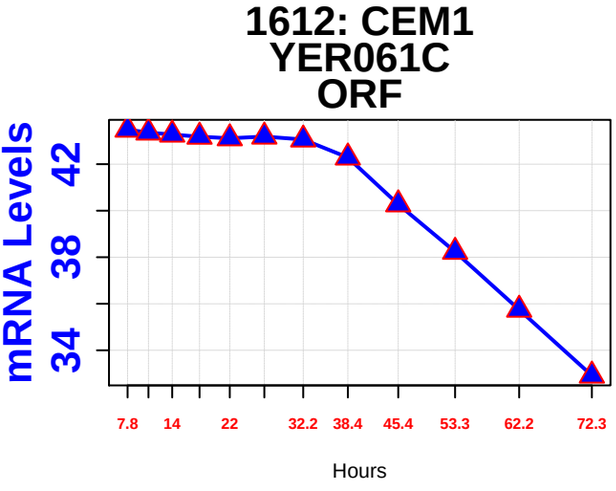


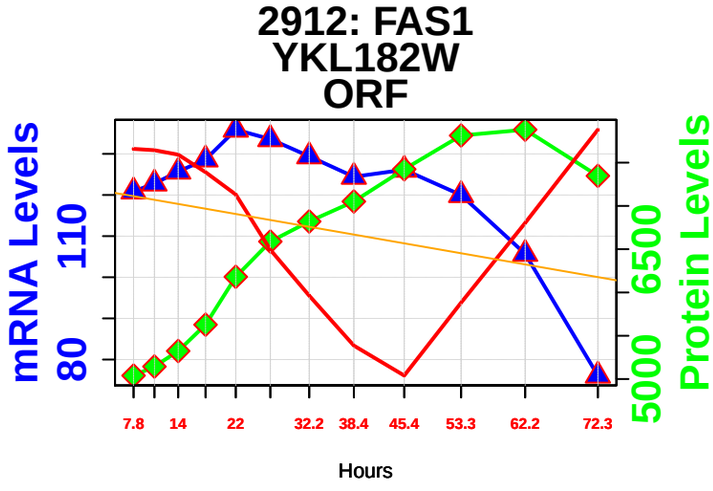


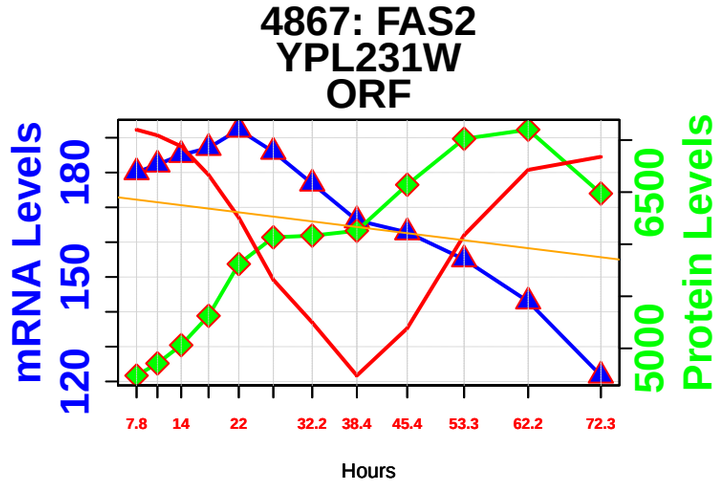


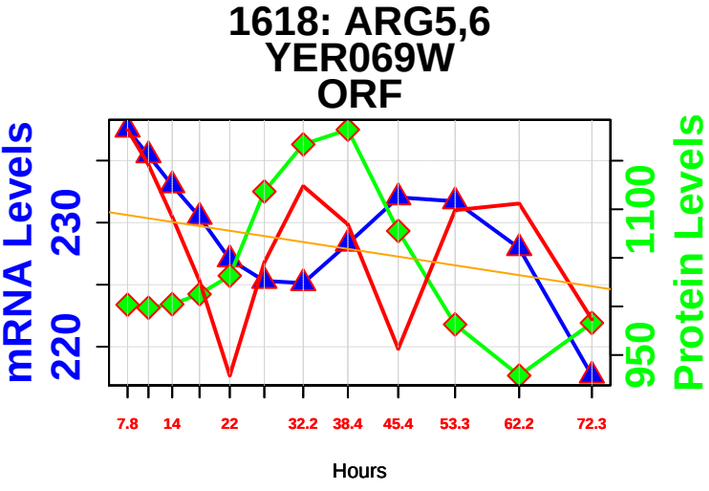


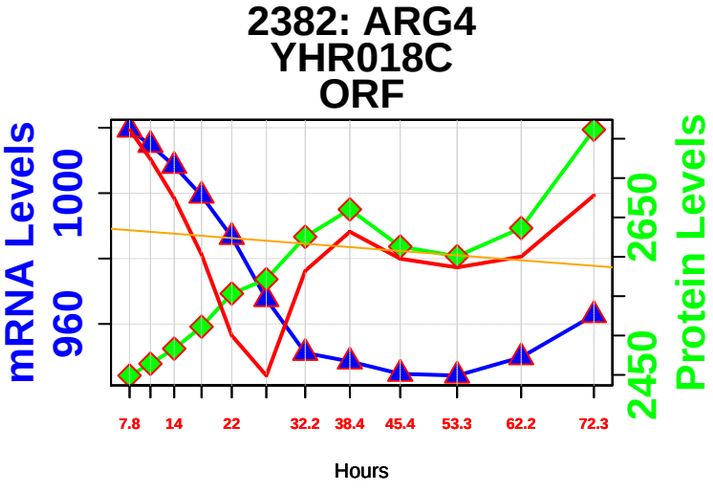
fatty acid elongation

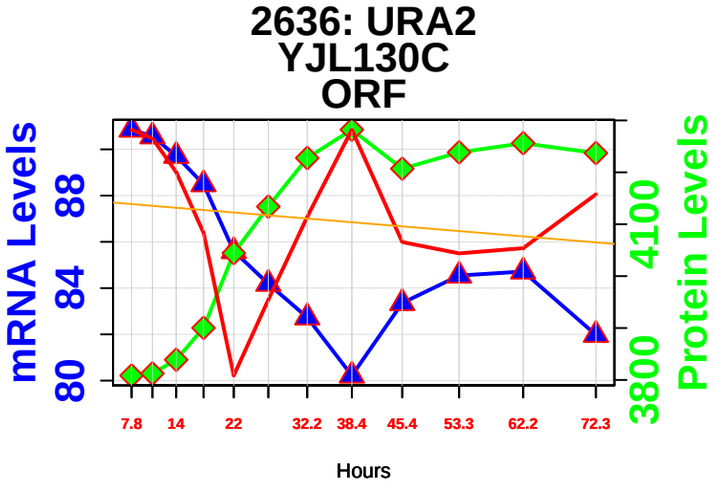


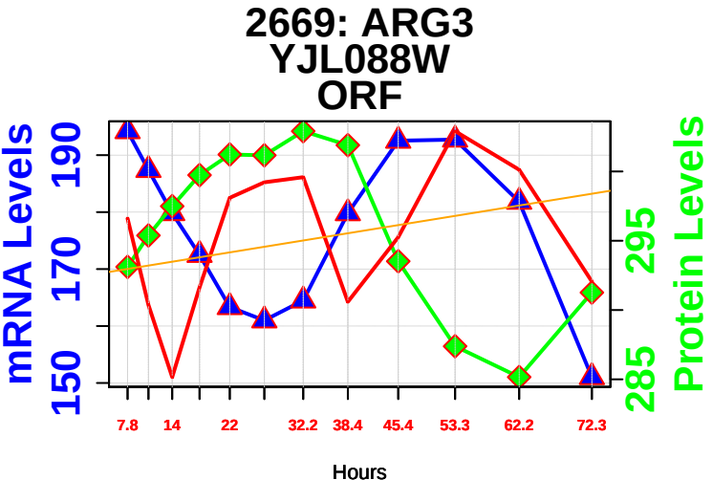


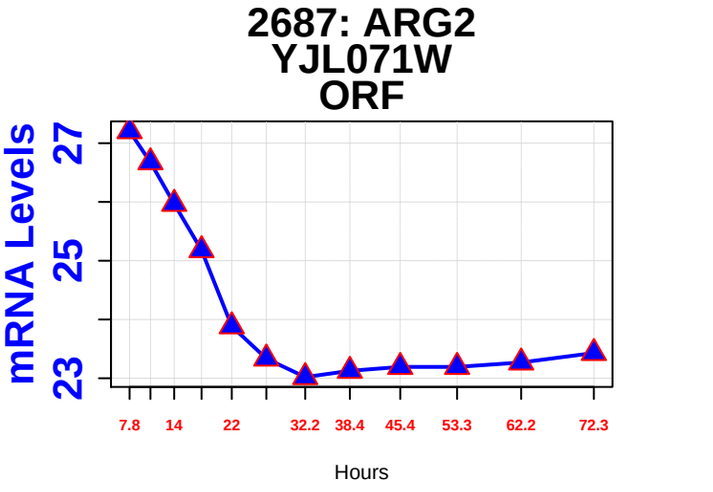


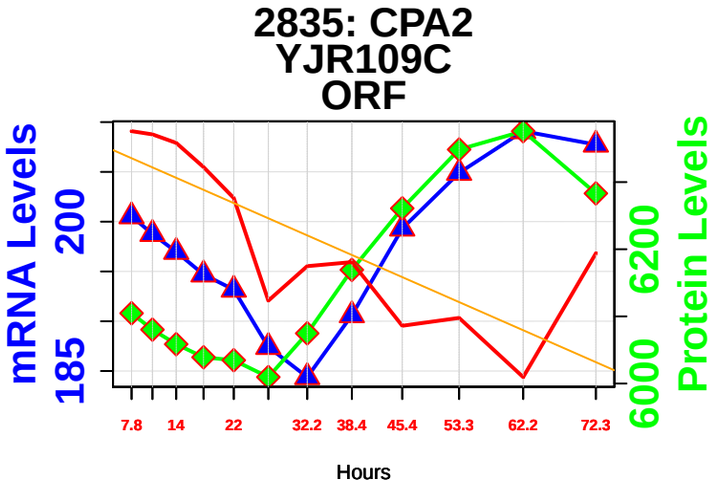

1618: ARG5,6
YER069W
ORF
mRNA Levels
220
230
Protein Levels
950
1100
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

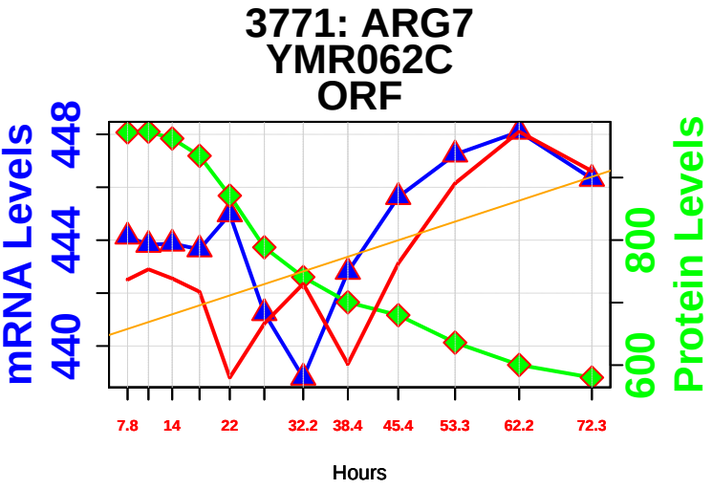

2382: ARG4
YHR018C
ORF
mRNA Levels
960
1000
Protein Levels
2450
2650
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

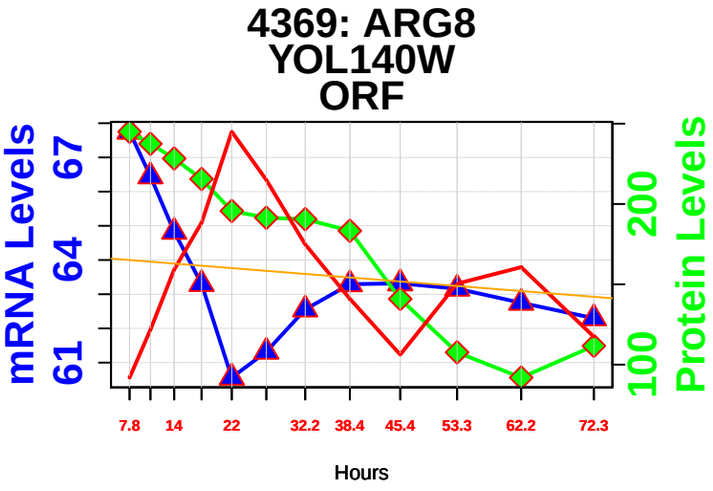

2636: URA2
YJL130C
ORF
mRNA Levels
80
84
88
Protein Levels
3800
4100
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

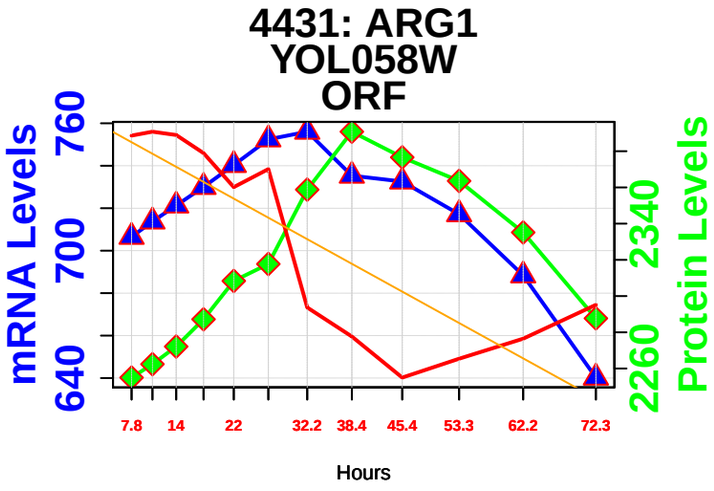

2669: ARG3
YJL088W
ORF
mRNA Levels
150
170
190
Protein Levels
285
295
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

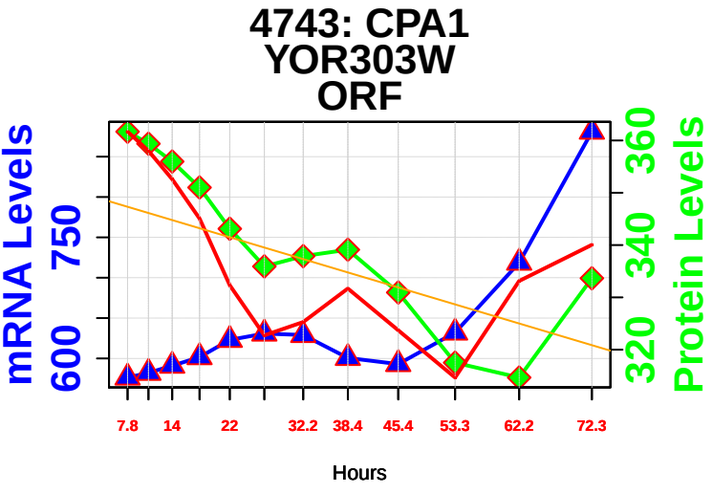

2687: ARG2
YJL071W
ORF
mRNA Levels
23
25
27
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours


2835: CPA2
YJR109C
ORF
mRNA Levels
185
200
Protein Levels
6000
6200
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

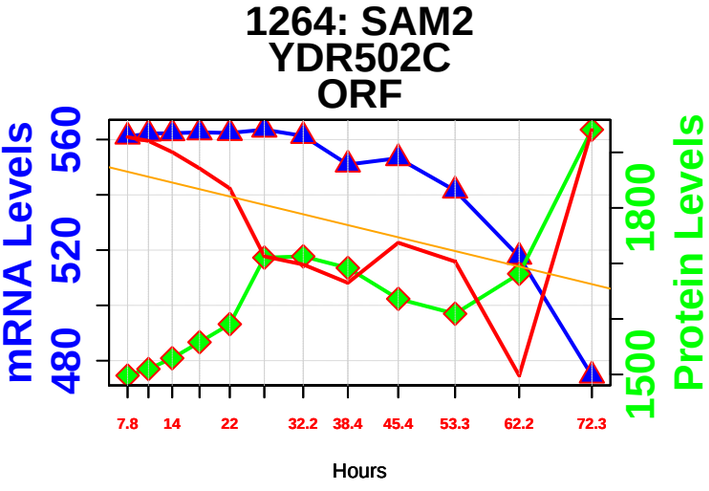

3771: ARG7
YMR062C
ORF
mRNA Levels
440
444
448
Protein Levels
600
800
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

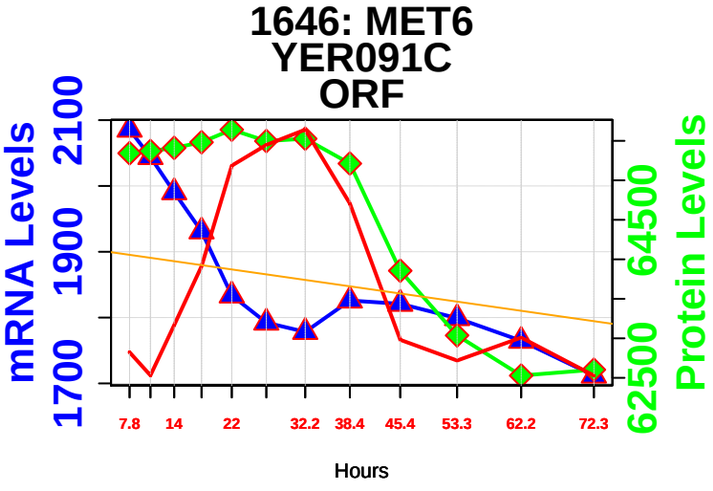

4369: ARG8
YOL140W
ORF
mRNA Levels
61
64
67
Protein Levels
100
200
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

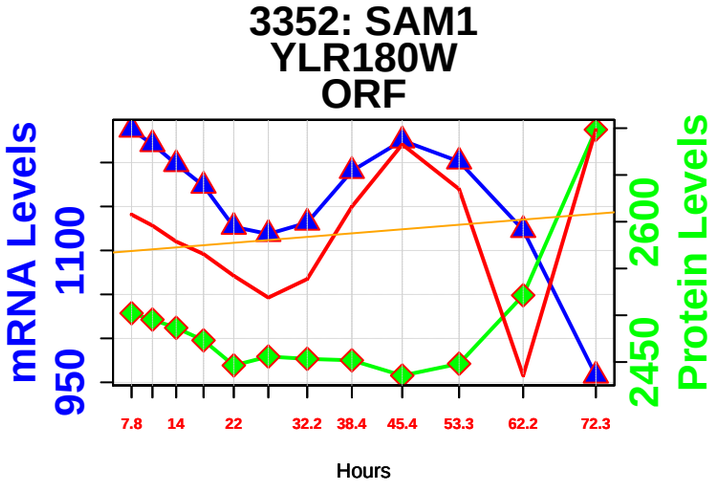

4431: ARG1
YOL058W
ORF
mRNA Levels
640
700
760
Protein Levels
2260
2340
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

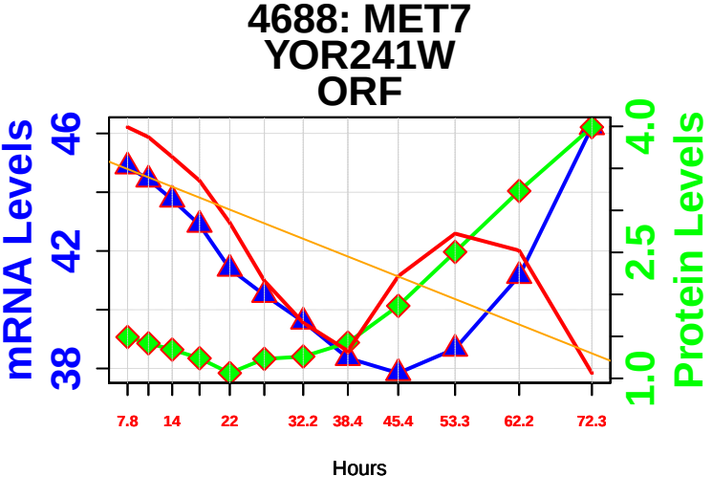

4743: CPA1
YOR303W
ORF
mRNA Levels
600
750
320
340
360
Protein Levels
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

methionine biosynthesis

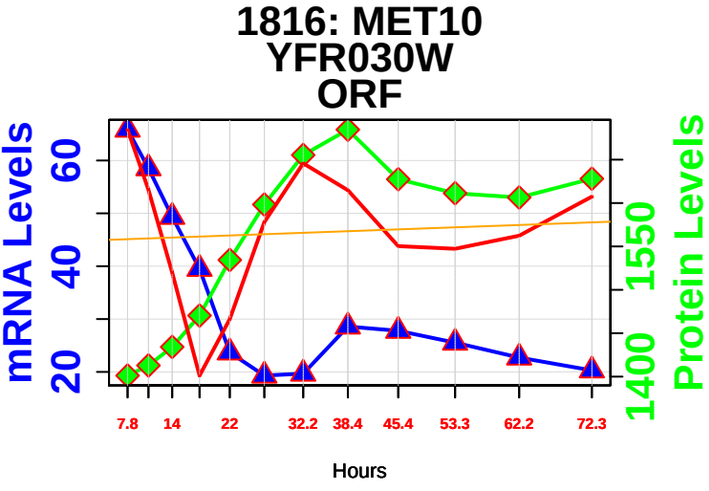


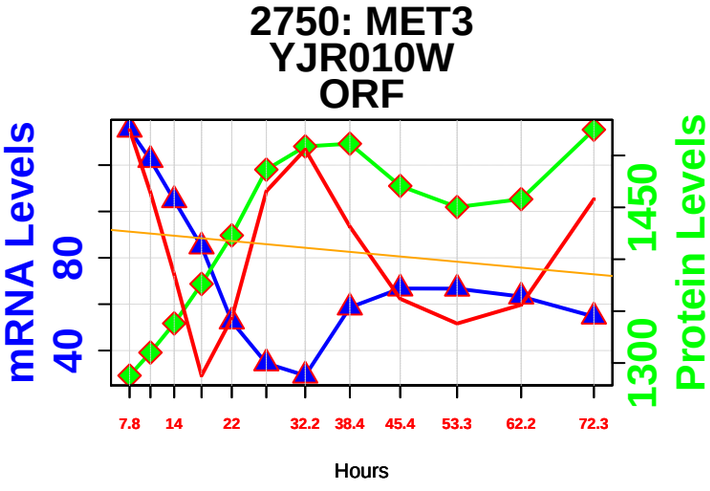


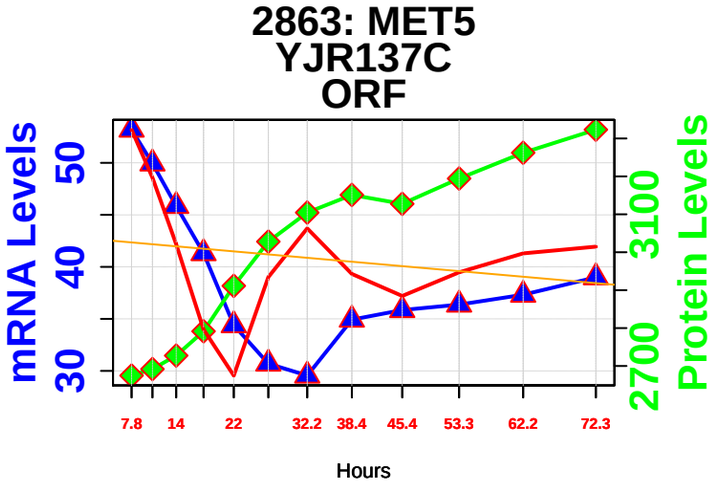


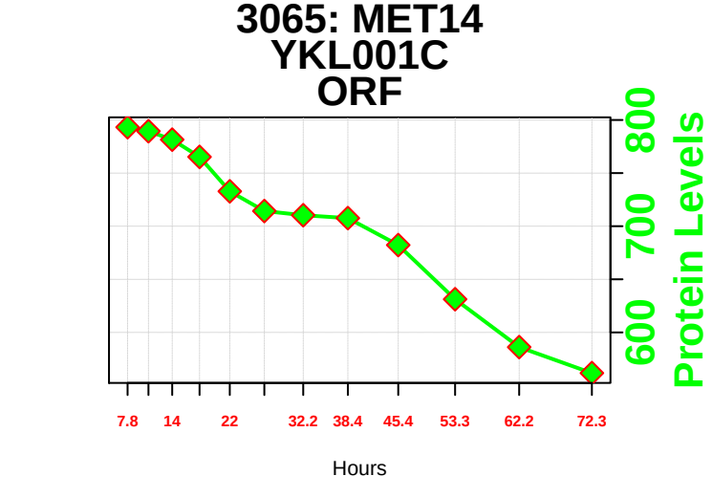


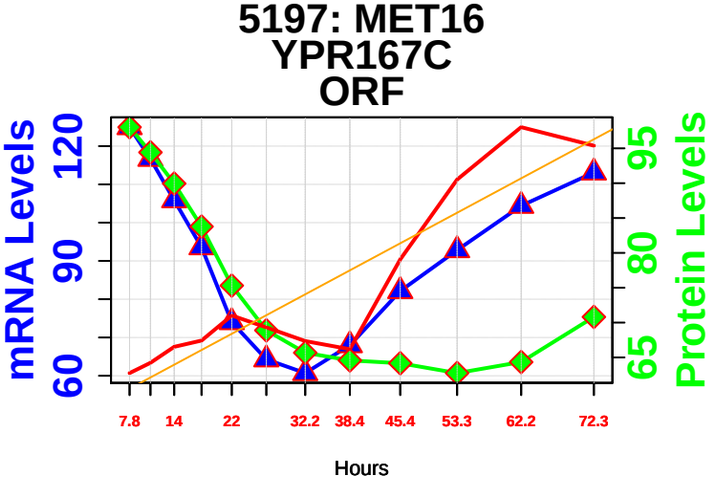
sulfate assimilation pathway





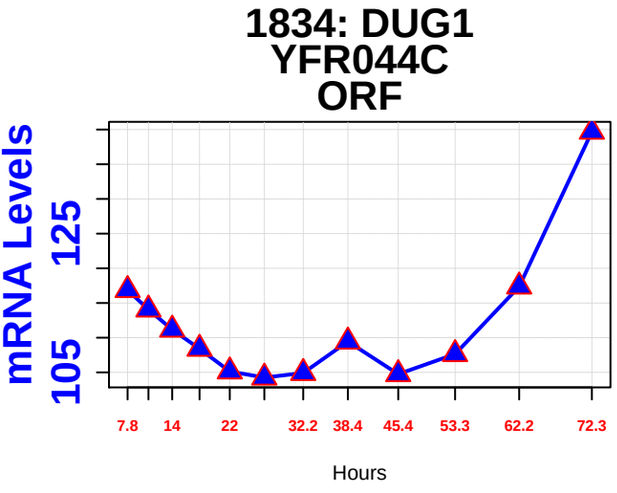




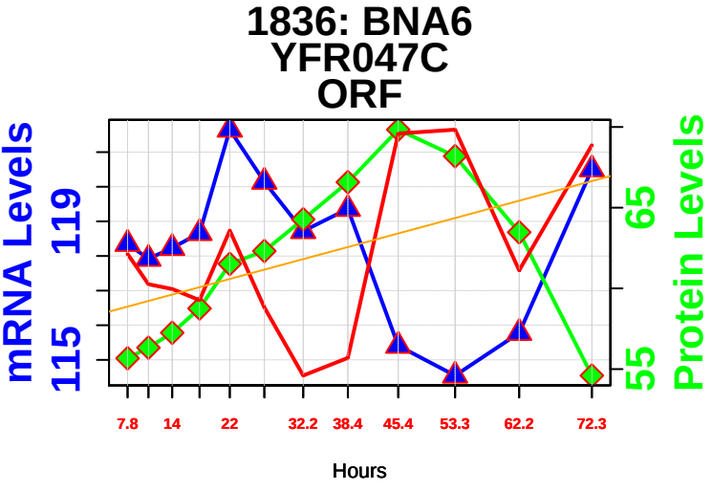


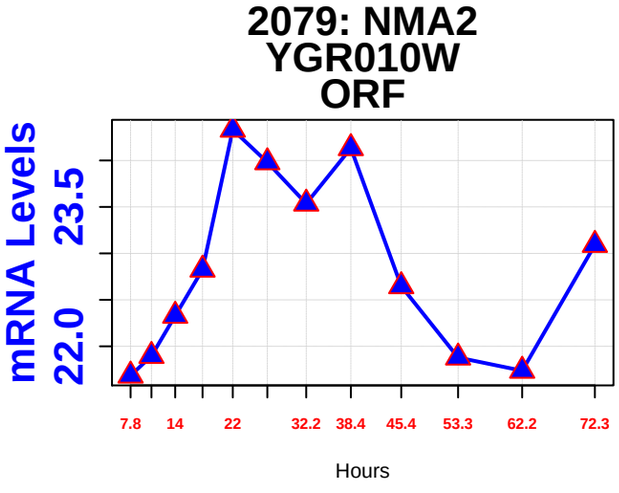
superpathway of glutathione and glutathione derivatives

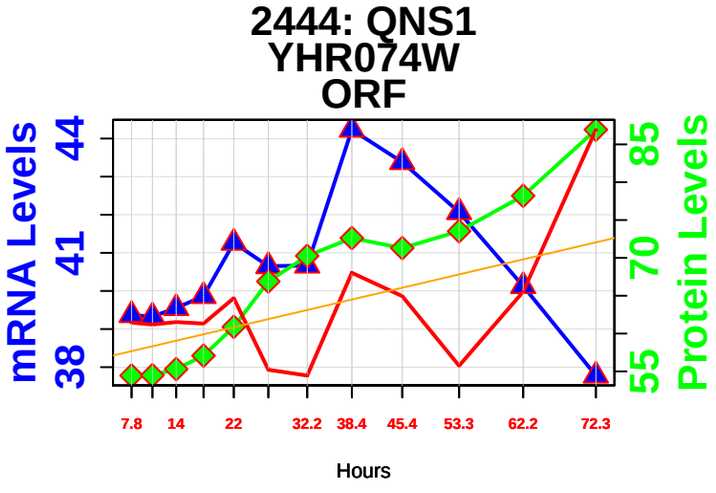
glutathione degradation (γ−glutamyl cycle)



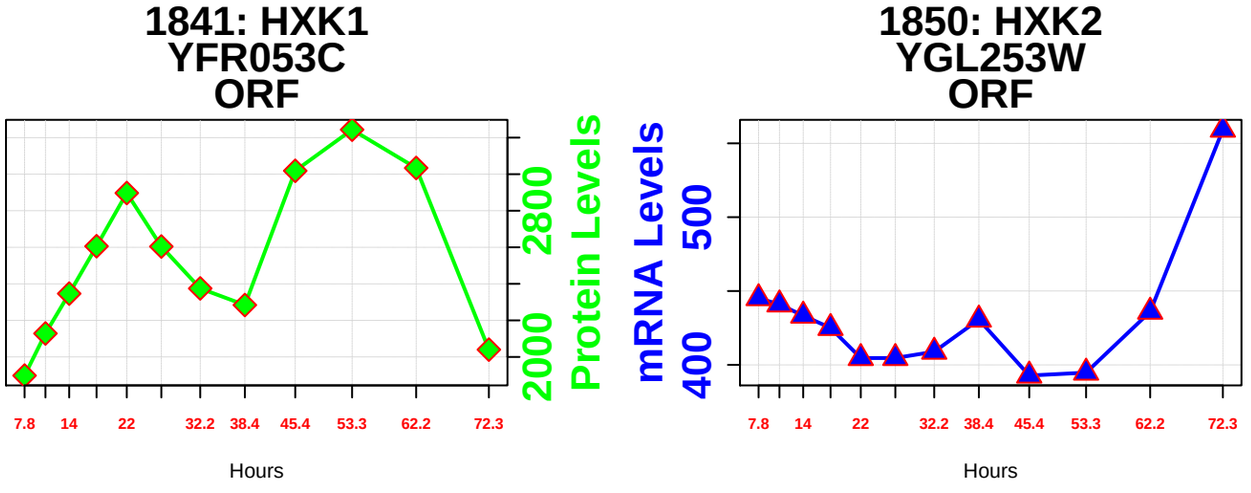
de novo NAD biosynthesis



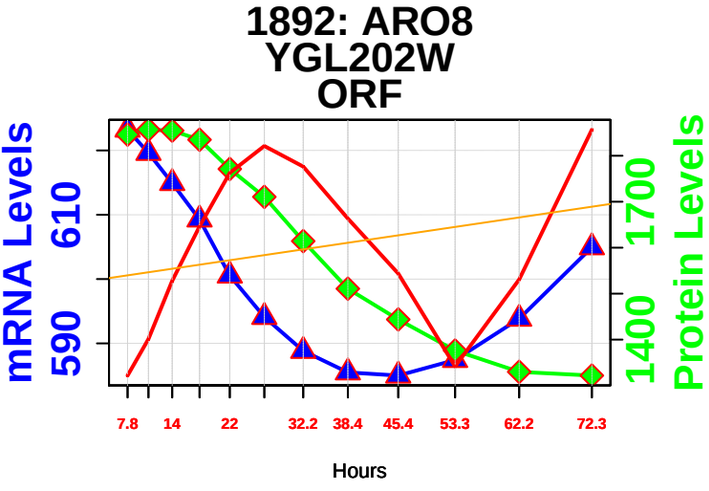


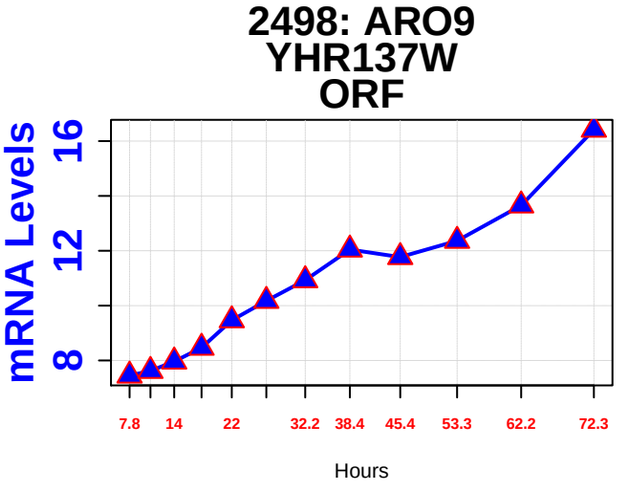


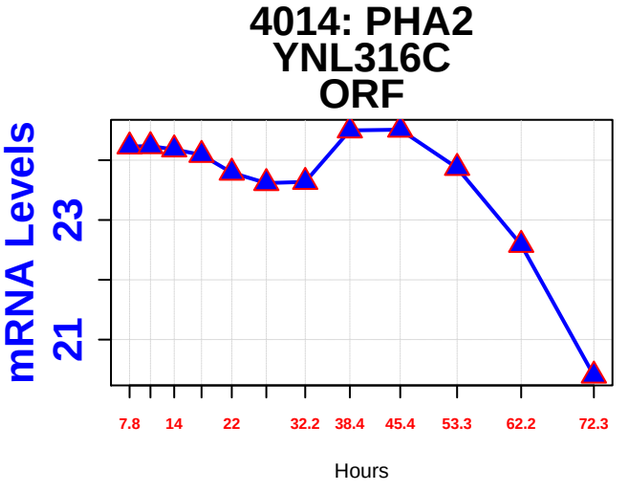
fructose degradation

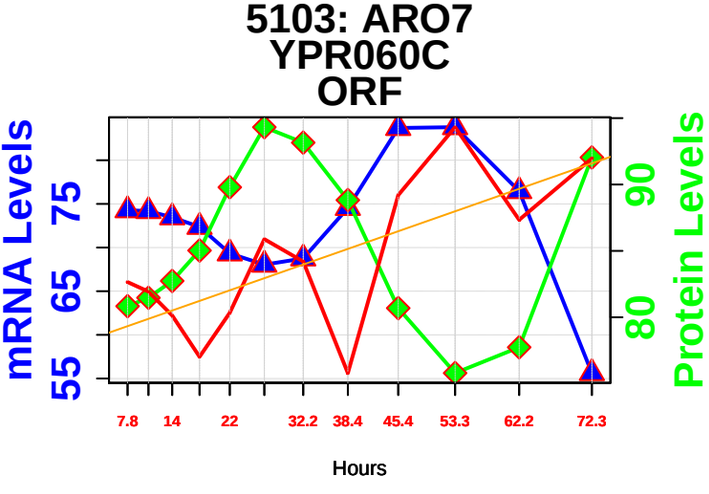


phenylalanine biosynthesis

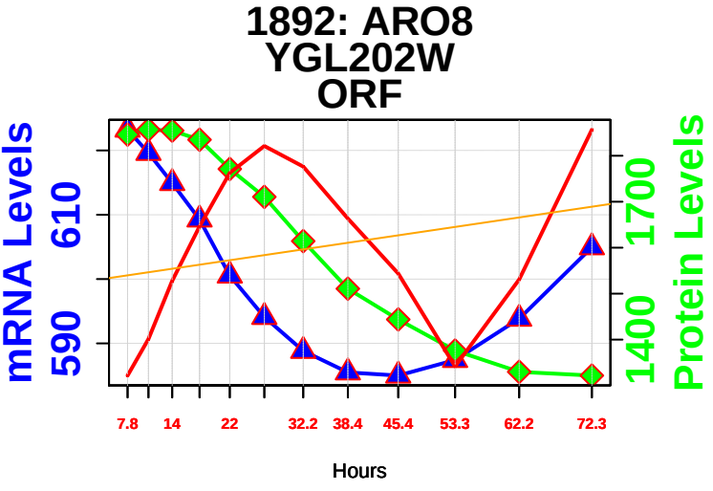


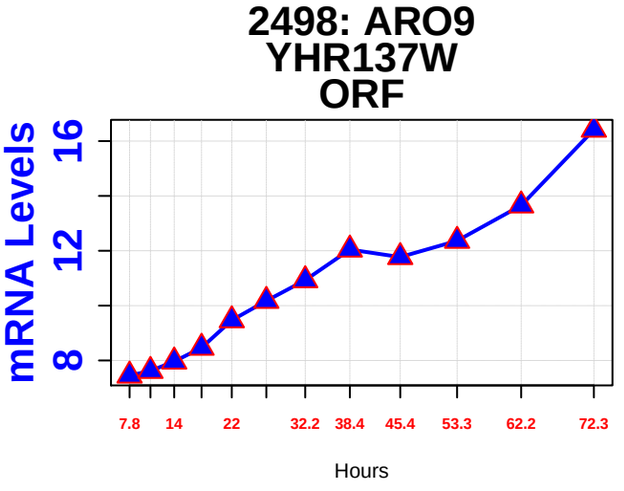




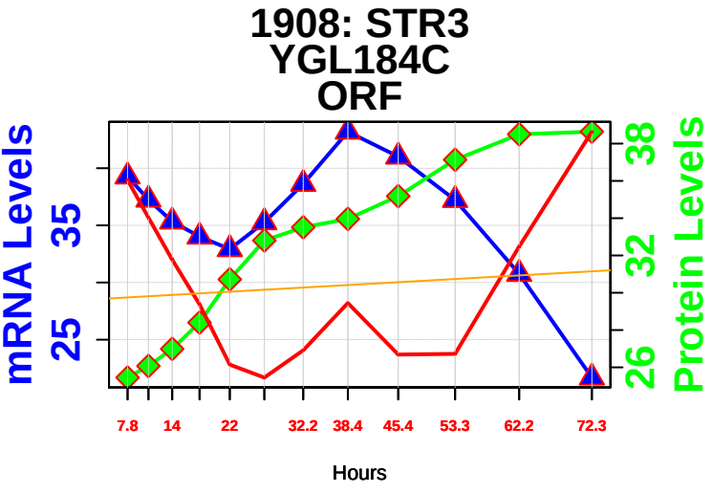


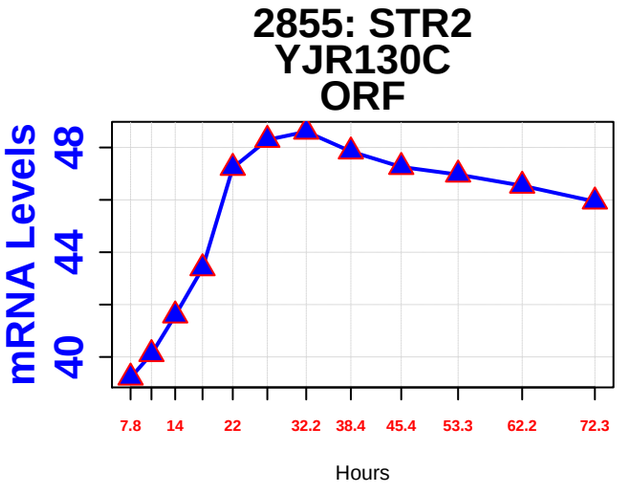
tyrosine degradation

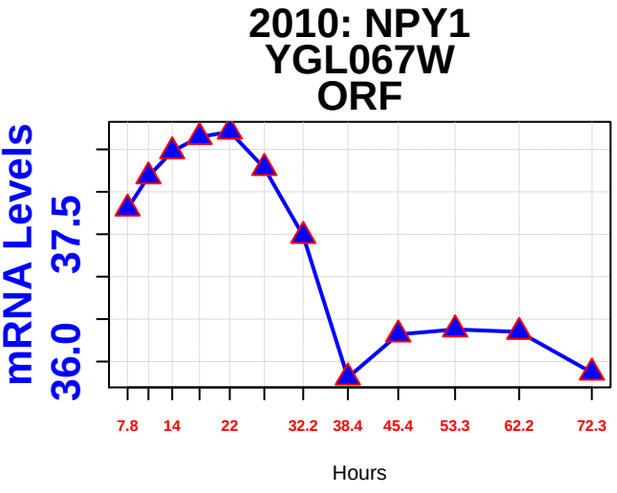


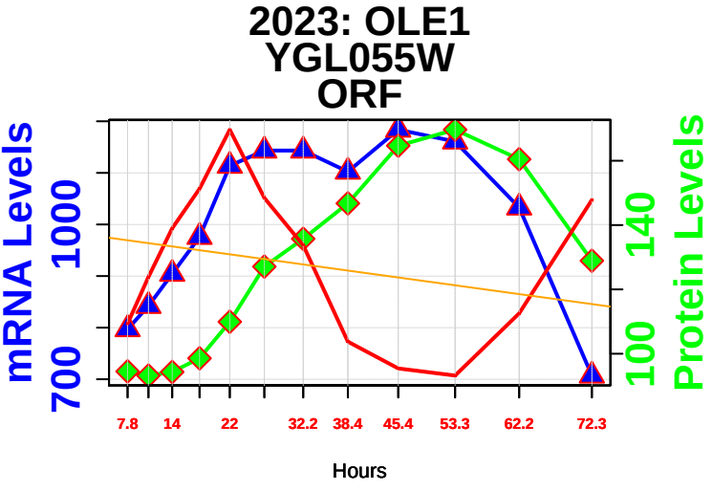


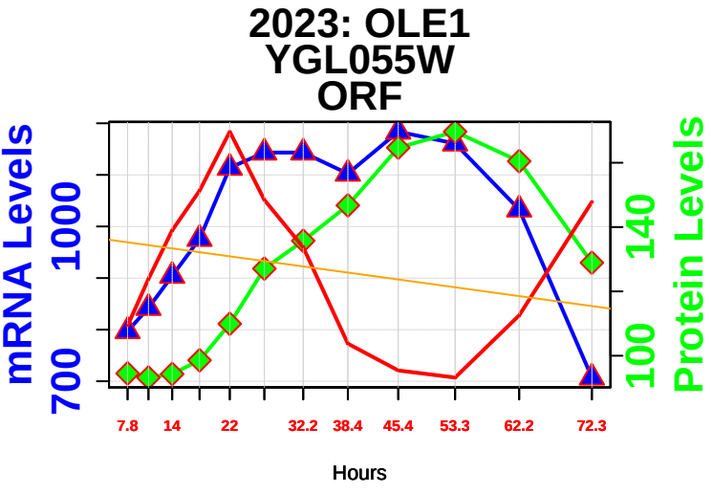
homocysteine and cysteine interconversion

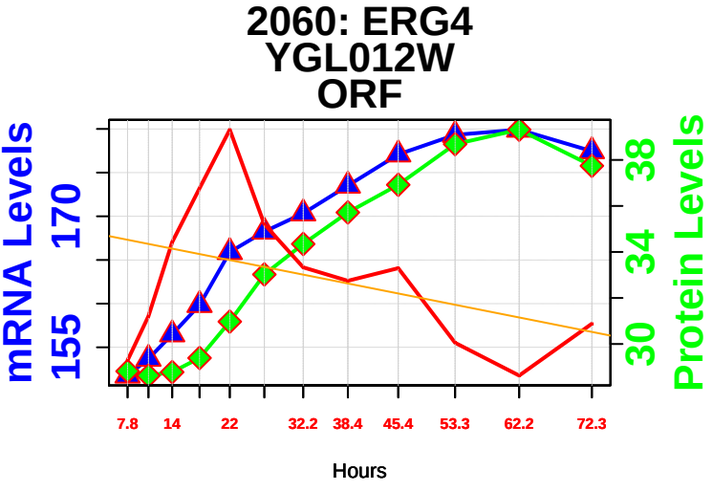


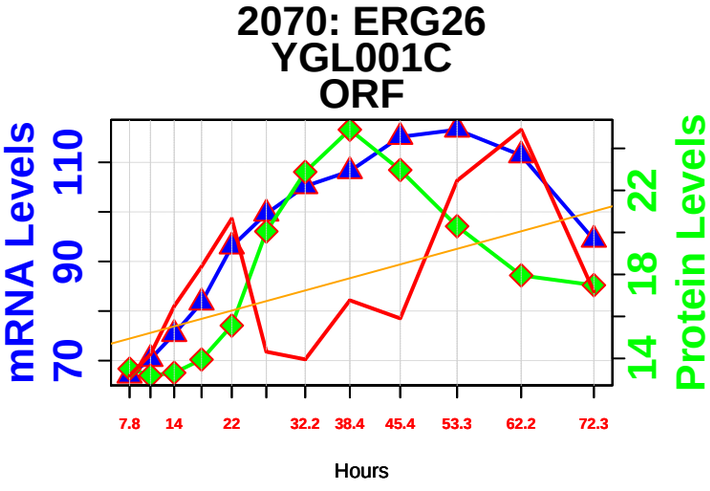


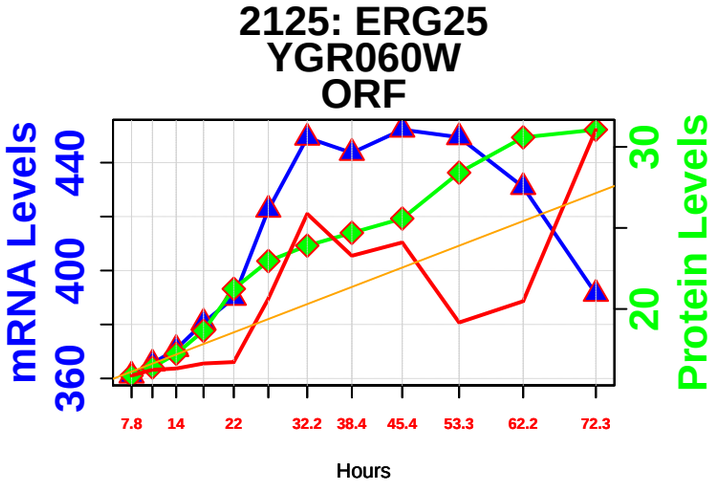

2010: NPY1
YGL067W
ORF
mRNA Levels
36.0
37.5
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

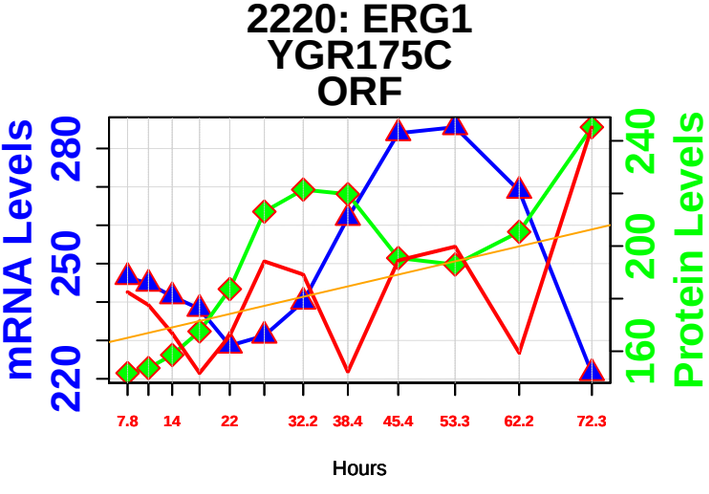

2023: OLE1
YGL055W
ORF
mRNA Levels
700
1000
Protein Levels
100
140
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

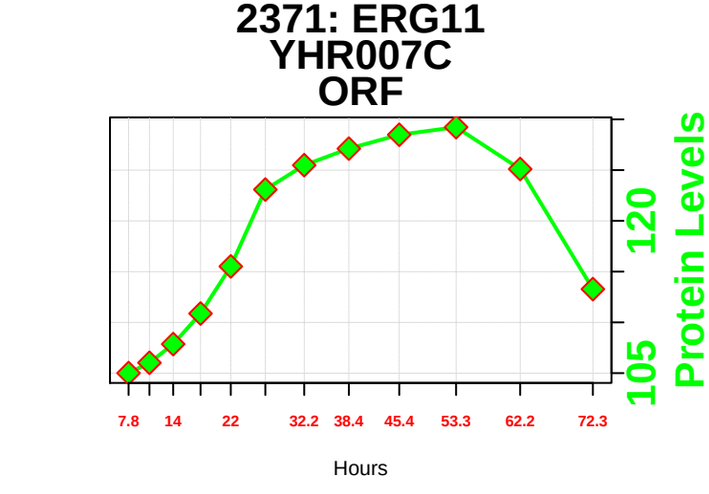

2023: OLE1
YGL055W
ORF
mRNA Levels
700
1000
Protein Levels
100
140
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

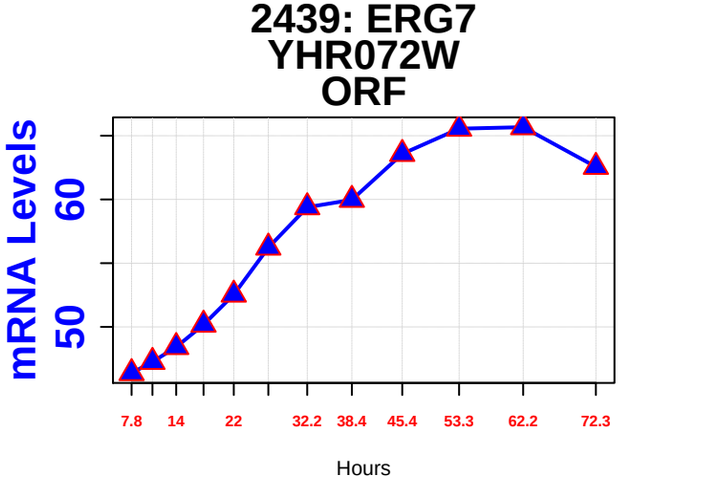

2060: ERG4
YGL012W
ORF
mRNA Levels
155
170
Protein Levels
30
34
38
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

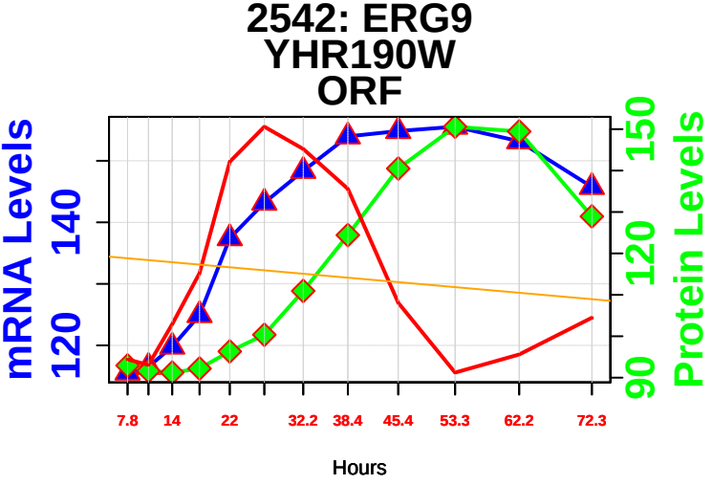

2070: ERG26
YGL001C
ORF
mRNA Levels
70
90
110
Protein Levels
14
18
22
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

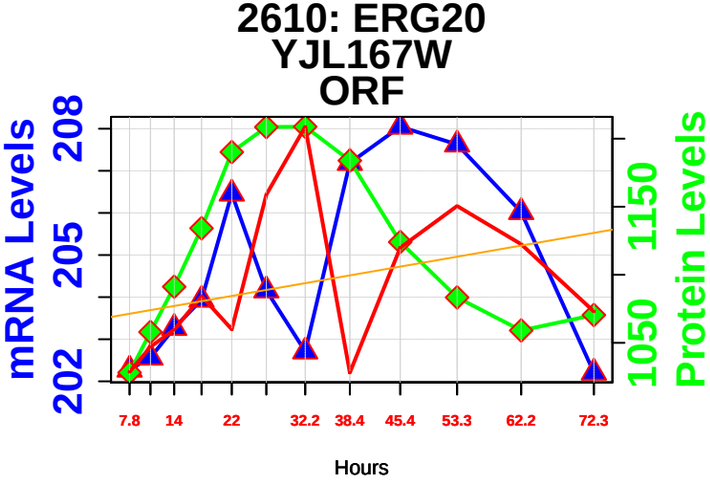

2125: ERG25
YGR060W
ORF
mRNA Levels
360
400
440
Protein Levels
20
30
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

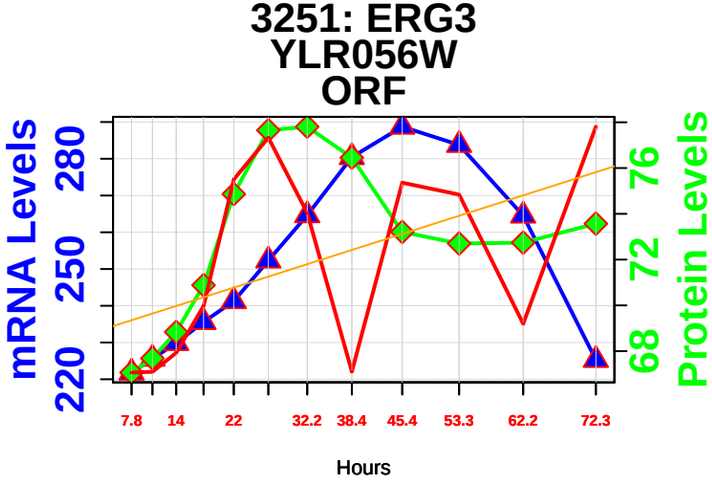

2220: ERG1
YGR175C
ORF
mRNA Levels
220
250
280
Protein Levels
160
200
240
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours


2371: ERG11
YHR007C
ORF
Protein Levels
105
120
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

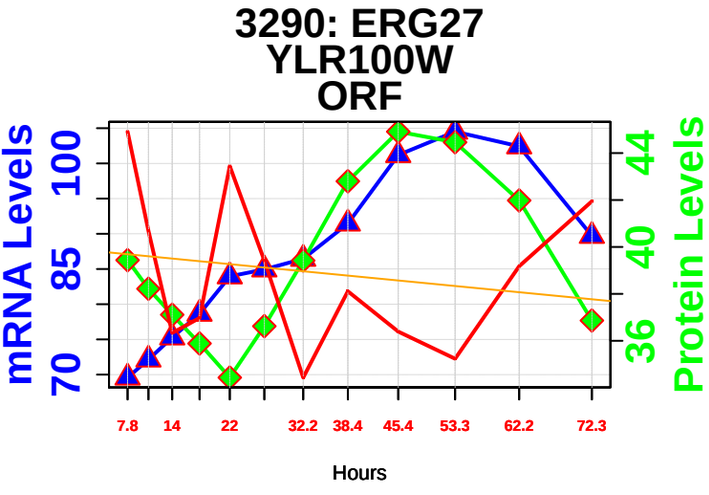

2439: ERG7
YHR072W
ORF
mRNA Levels
50
60
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

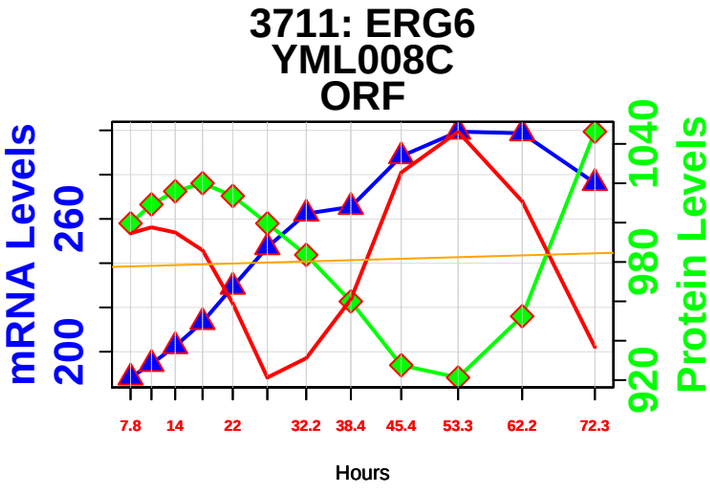

2542: ERG9
YHR190W
ORF
mRNA Levels
120
140
Protein Levels
90
120
150
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

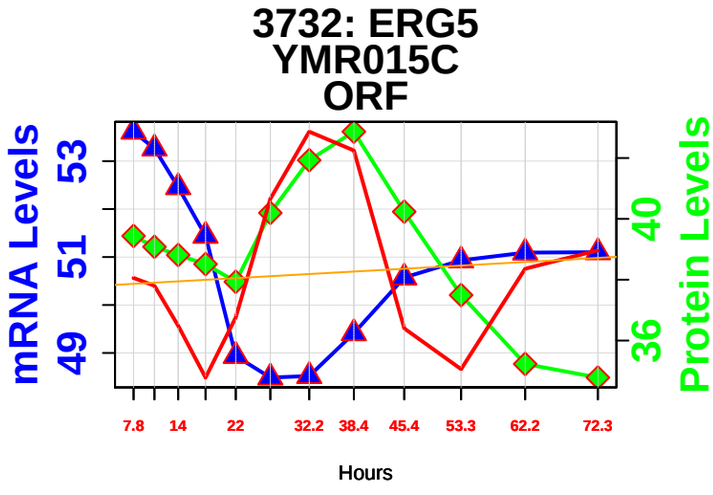

2610: ERG20
YJL167W
ORF
mRNA Levels
202
205
208
Protein Levels
1050
1150
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

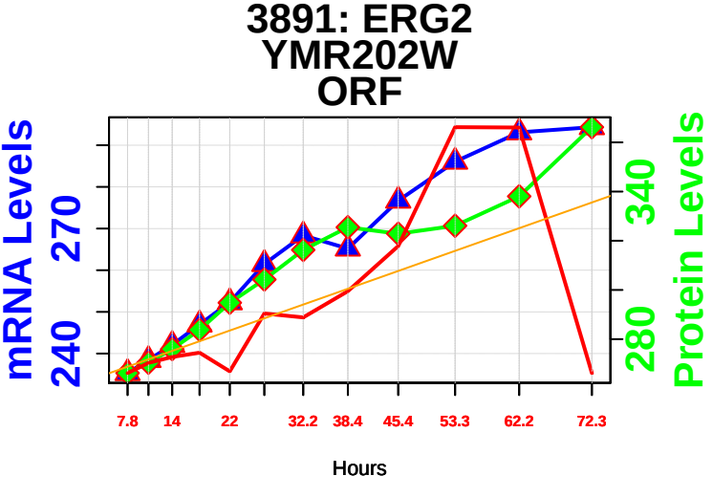

3251: ERG3
YLR056W
ORF
mRNA Levels
220
250
280
Protein Levels
68
72
76
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

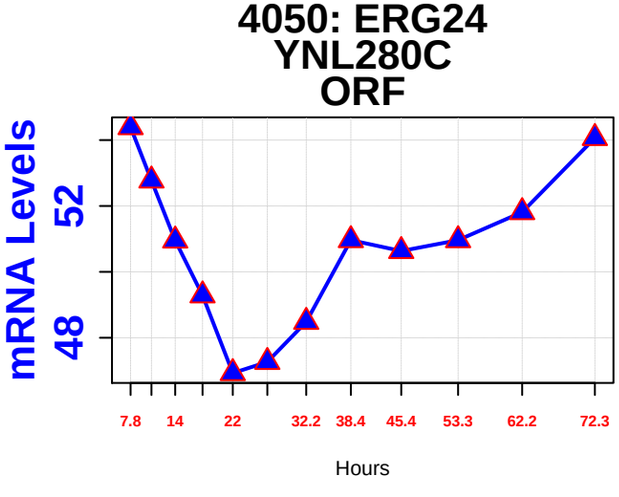
ergosterol biosynthesis



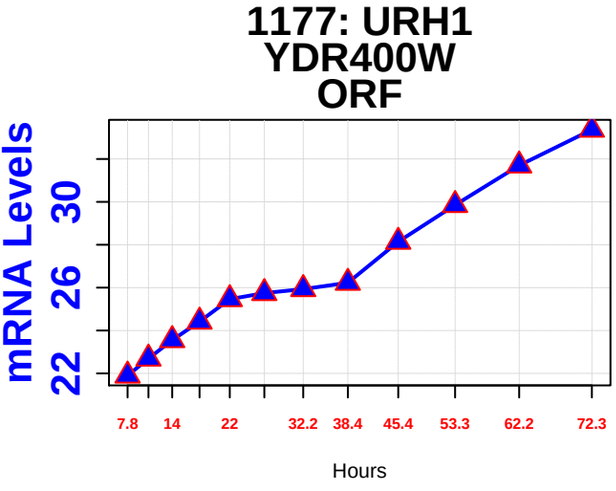


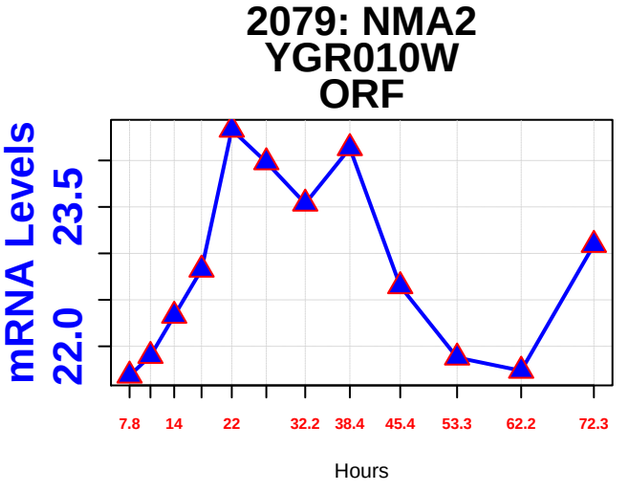


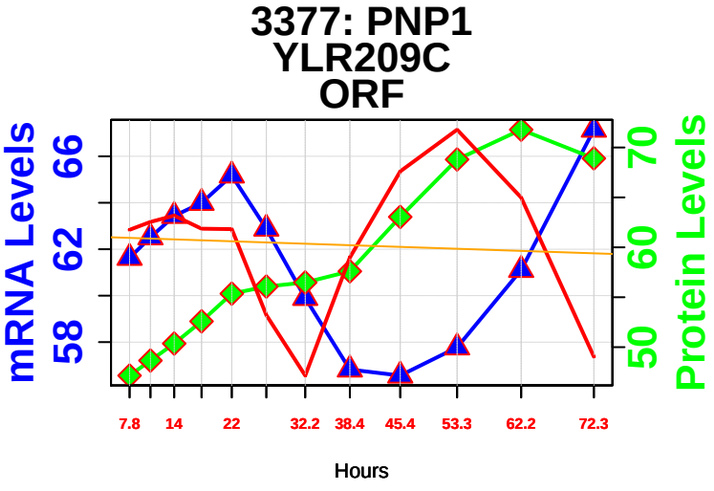


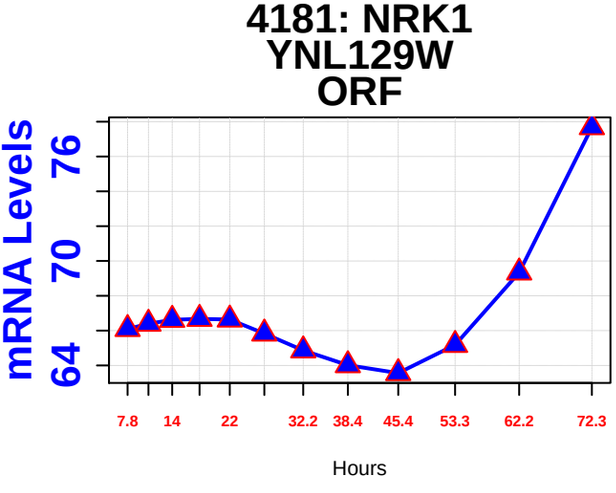


nicotinamide riboside salvage pathway I

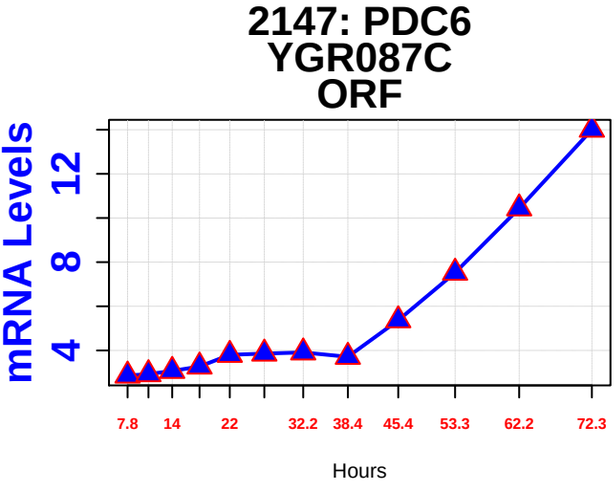


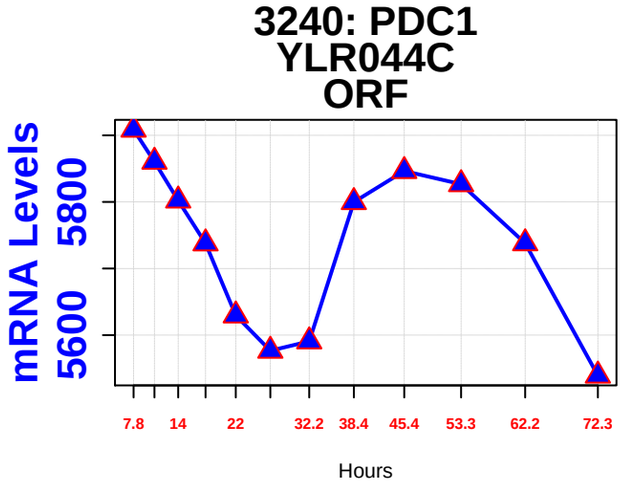


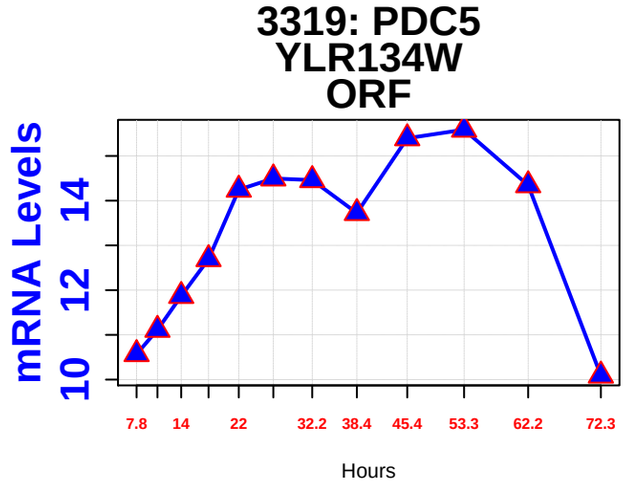




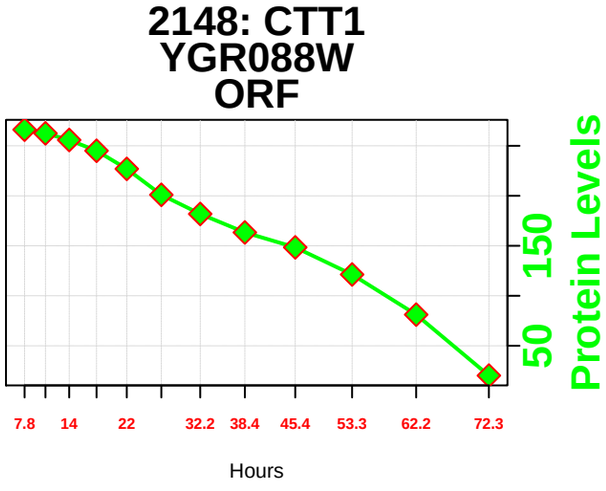
acetoin biosynthesis II

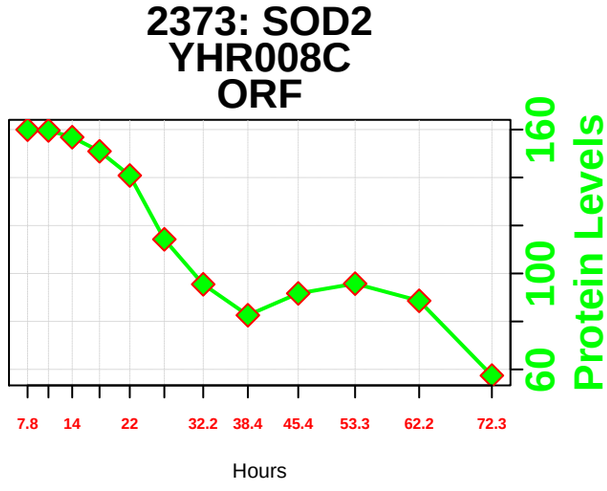


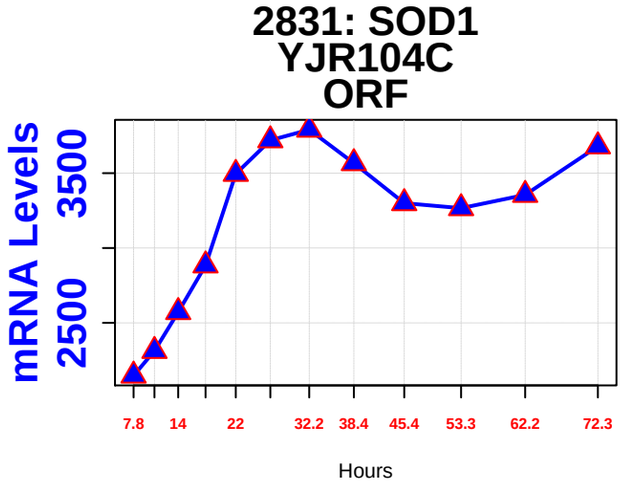




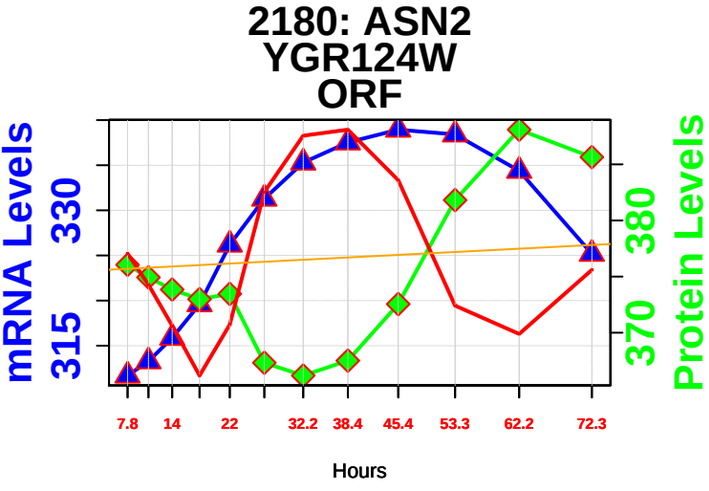
removal of superoxide radicals

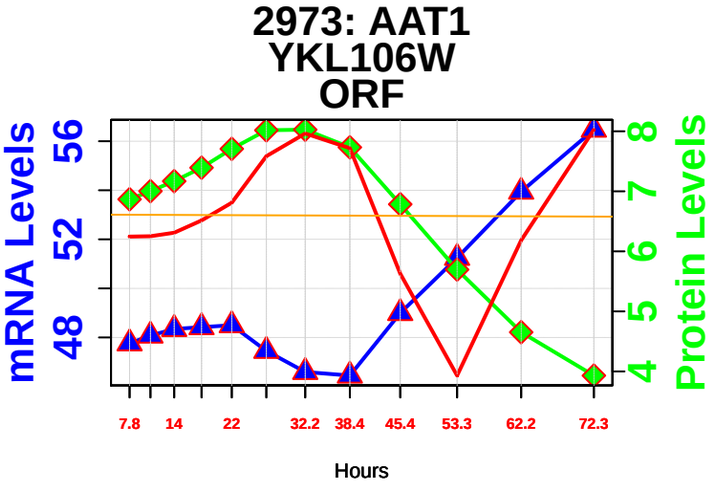


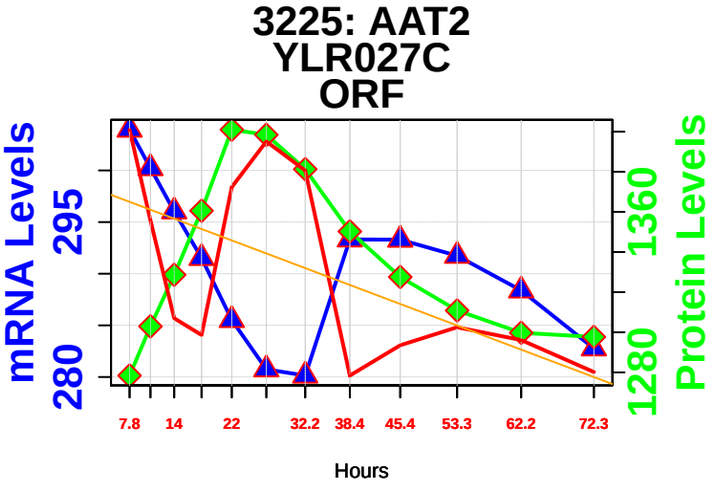


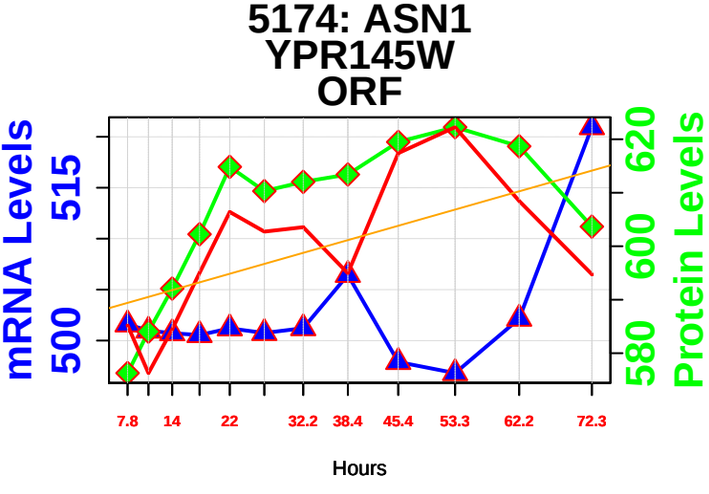


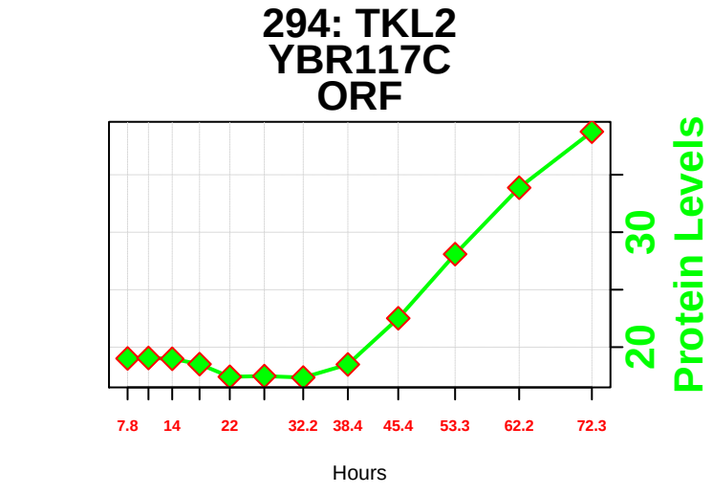
phospholipid biosynthesis (Kennedy pathway)

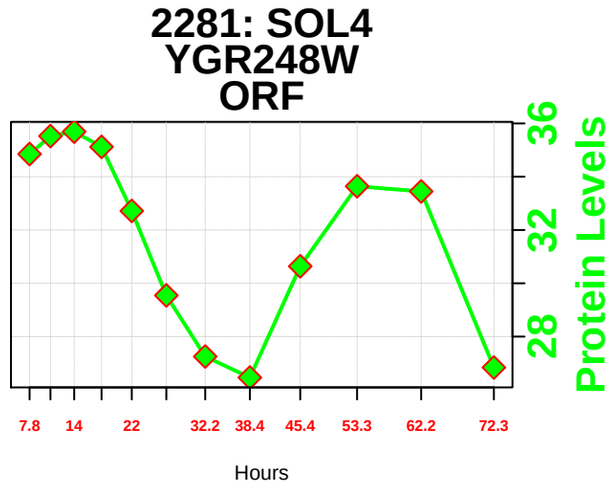


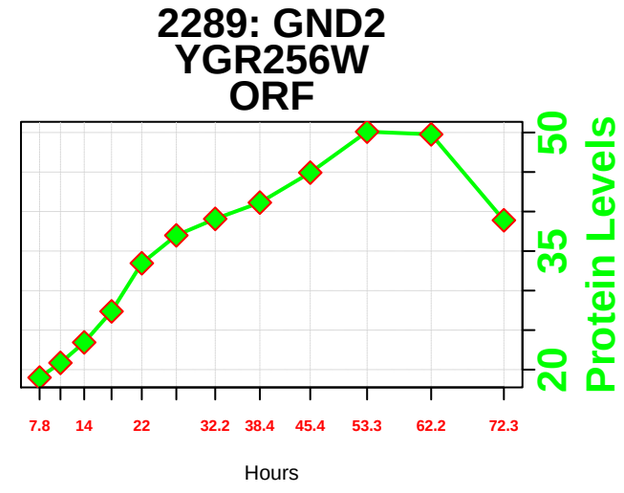


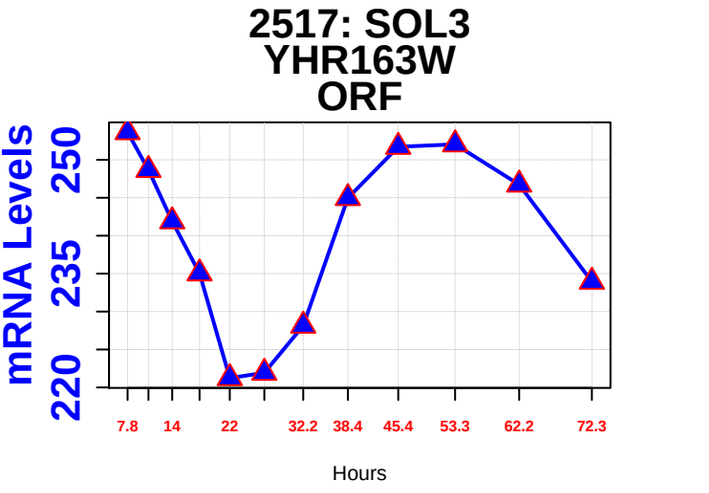


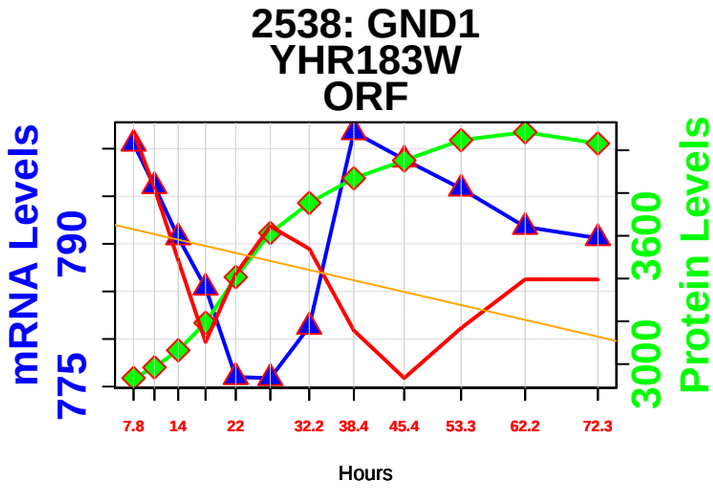


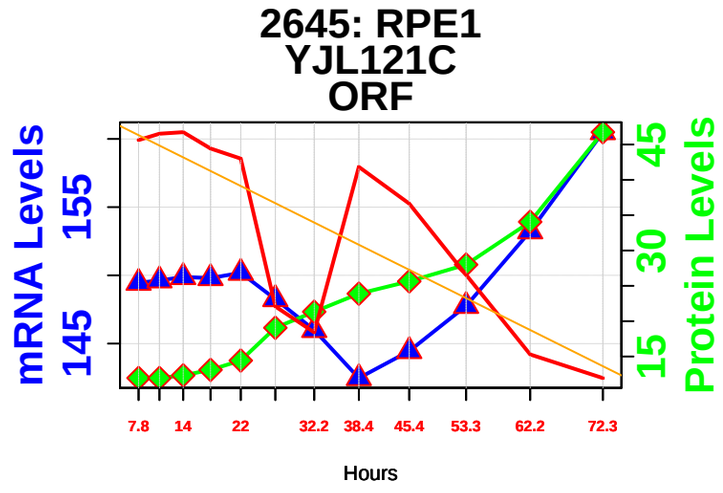

294: TKL2
YBR117C
ORF
Protein Levels
20
30
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

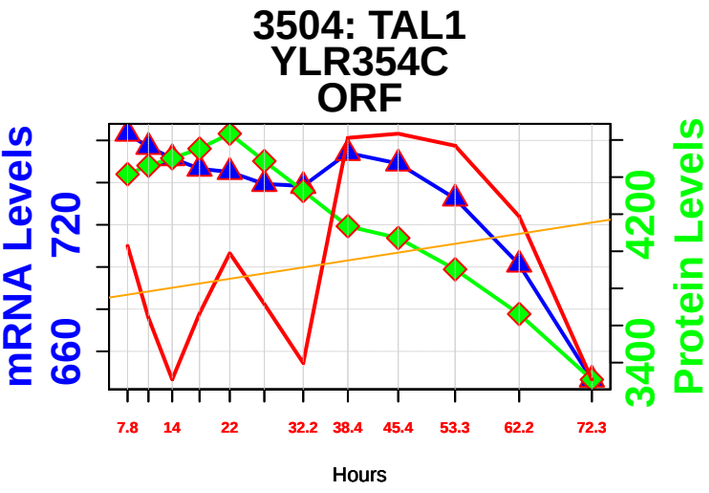

2281: SOL4
YGR248W
ORF
Protein Levels
28
32
36
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

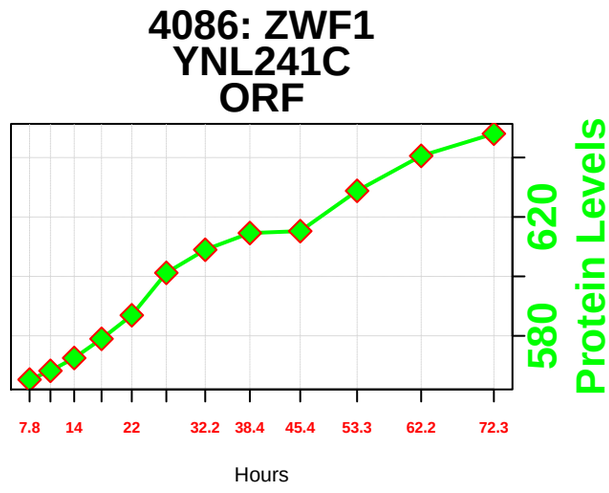

2289: GND2
YGR256W
ORF
Protein Levels
20
35
50
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

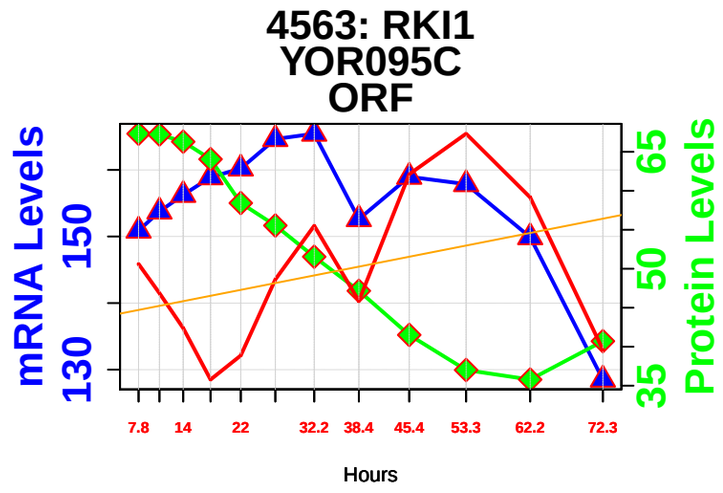

2517: SOL3
YHR163W
ORF
mRNA Levels
220
235
250
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours


2538: GND1
YHR183W
ORF
mRNA Levels
775
790
Protein Levels
3000
3600
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

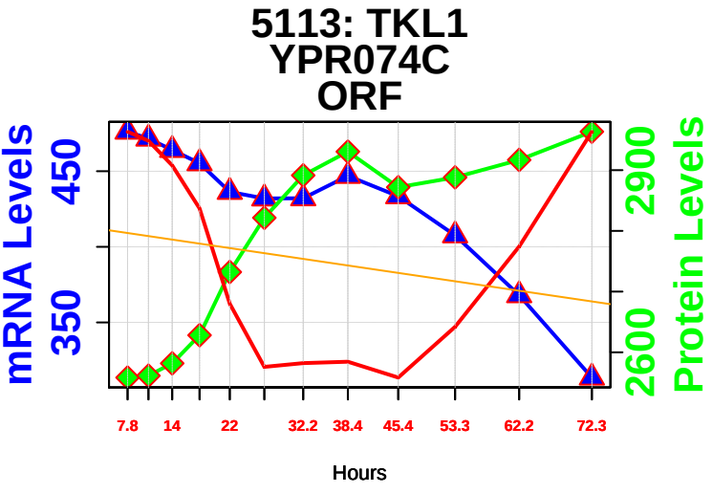

2645: RPE1
YJL121C
ORF
mRNA Levels
145
155
Protein Levels
15
30
45
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours


3504: TAL1
YLR354C
ORF
mRNA Levels
660
720
Protein Levels
3400
4200
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours


4086: ZWF1
YNL241C
ORF
Protein Levels
580
620
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

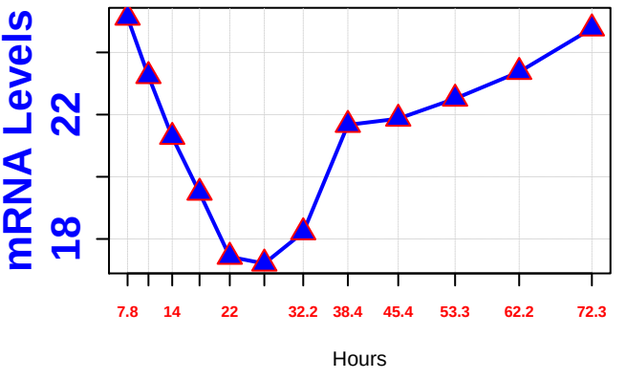

4563: RKI1
YOR095C
ORF
mRNA Levels
130
150
Protein Levels
35
50
65
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

oxidative branch of the pentose phosphate pathway

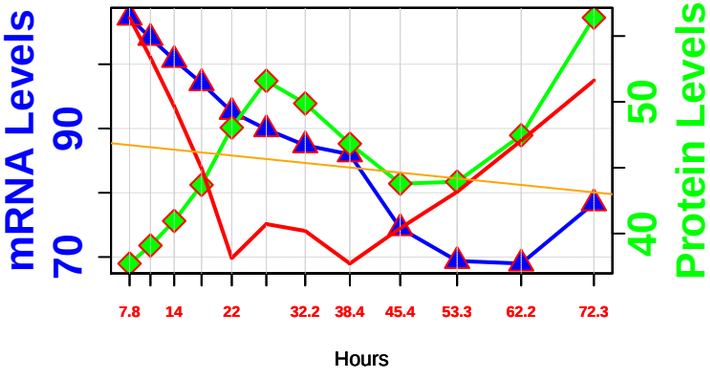


ubiquinone biosynthesis from 4−hydroxybenzoate

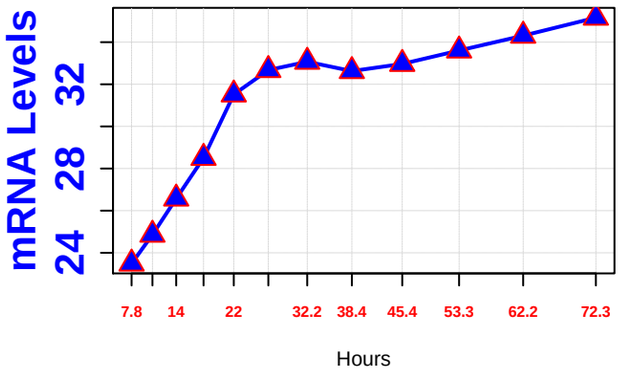
2288: COQ6
YGR255C
ORF



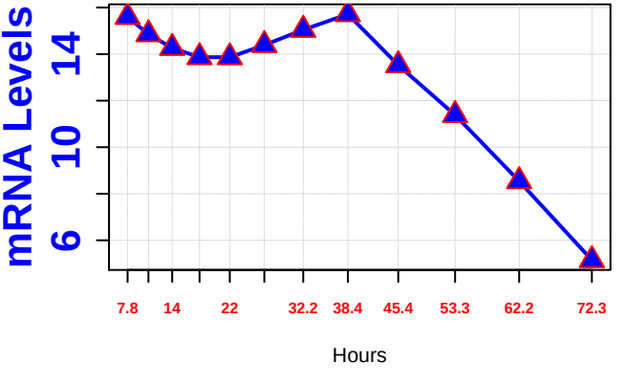
3616: COQ5
YML110C
ORF



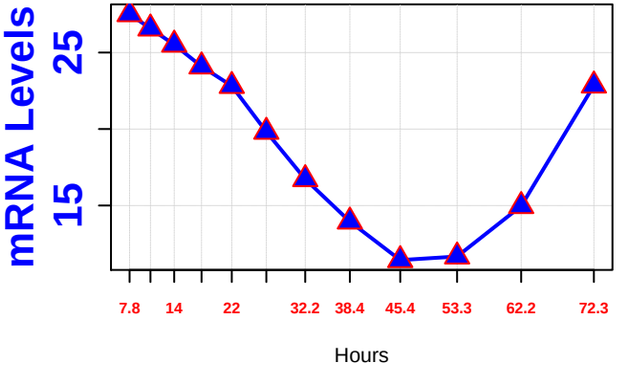
4322: COQ2
YNR041C
ORF



4404: COQ3
YOL096C
ORF

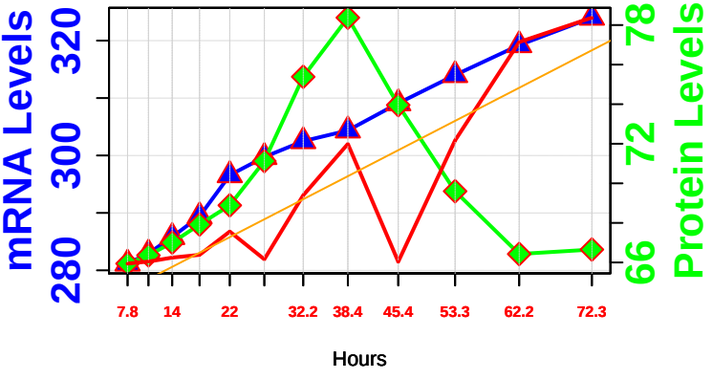


4588: CAT5
YOR125C
ORF

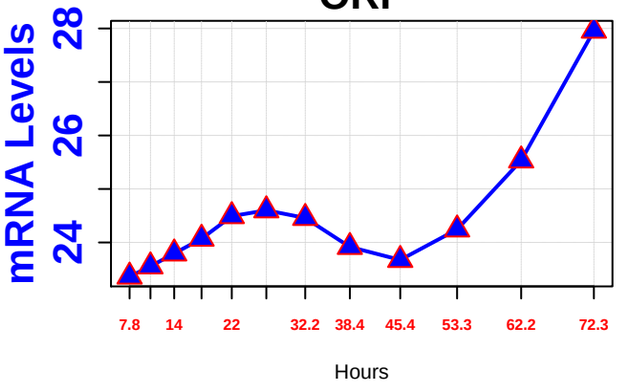


folate biosynthesis II

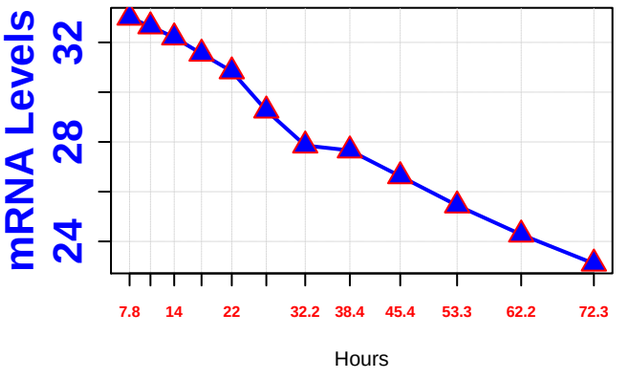
2299: FOL2 YGR267C ORF



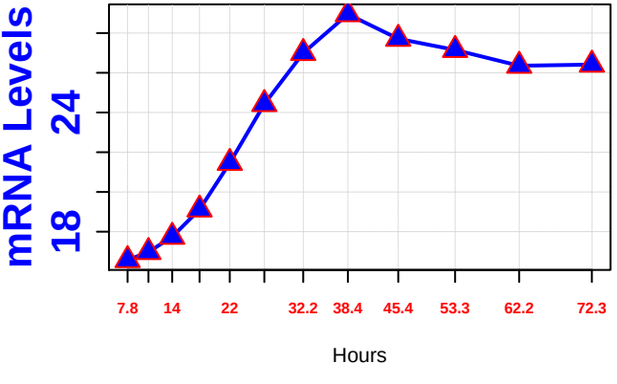
3812: FOL3 YMR113W ORF



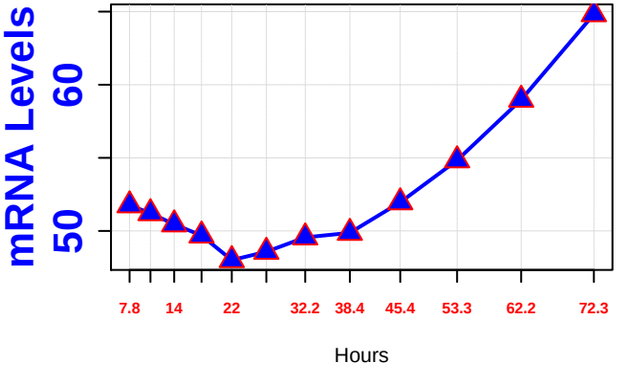
3968: ABZ2 YMR289W ORF



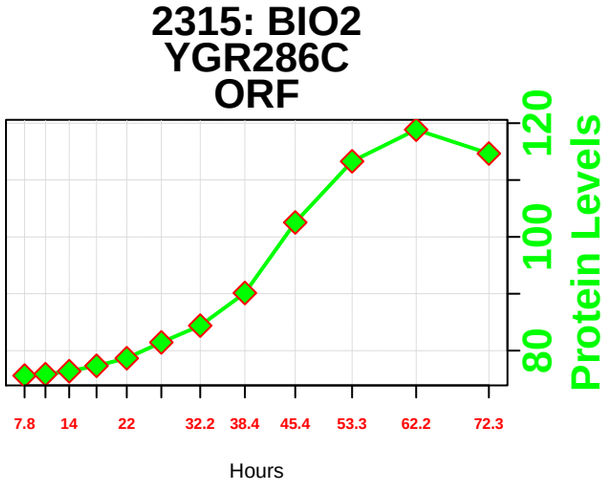
4316: ABZ1 YNR033W ORF

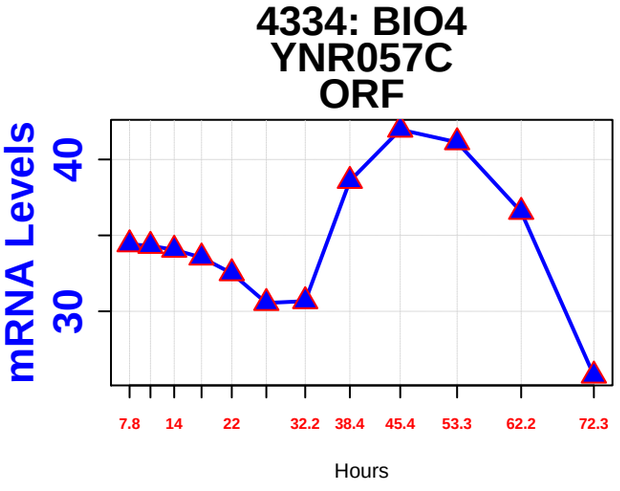


4684: DFR1 YOR236W ORF

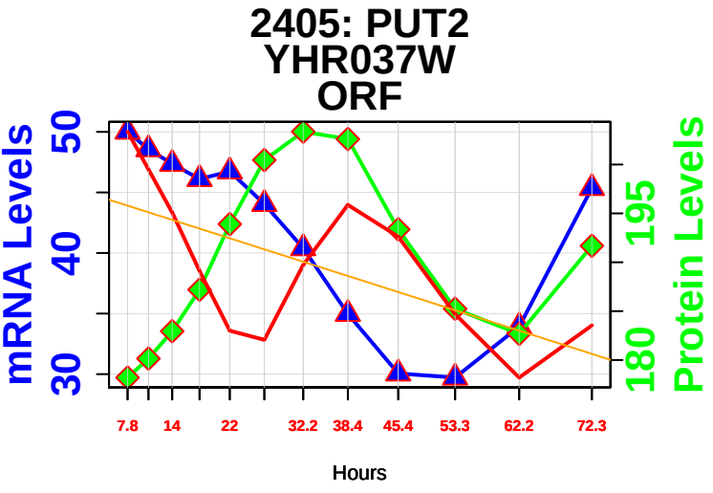


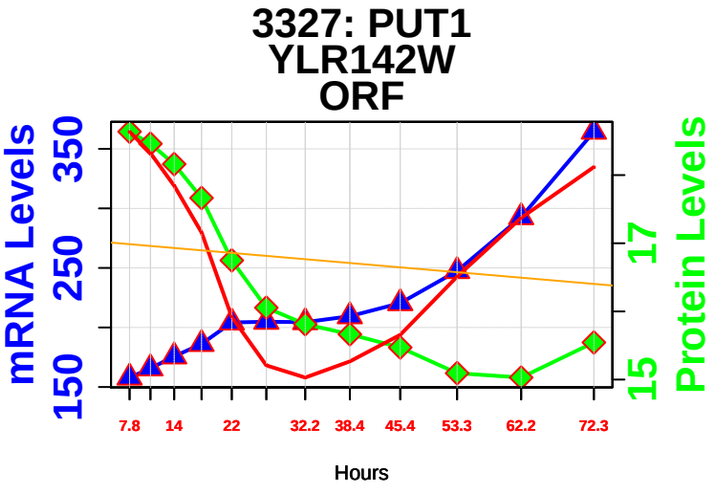
biotin biosynthesis

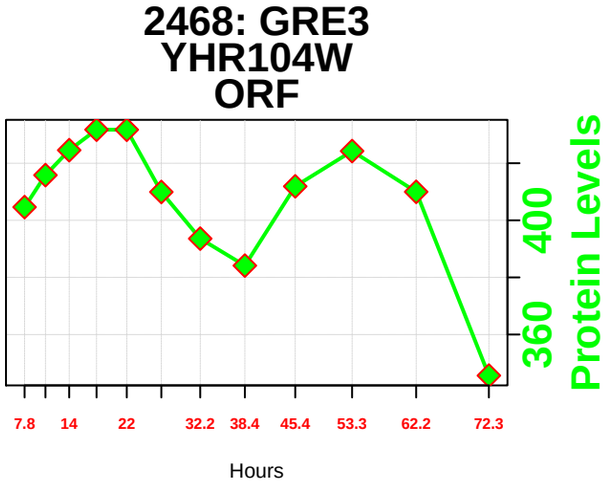




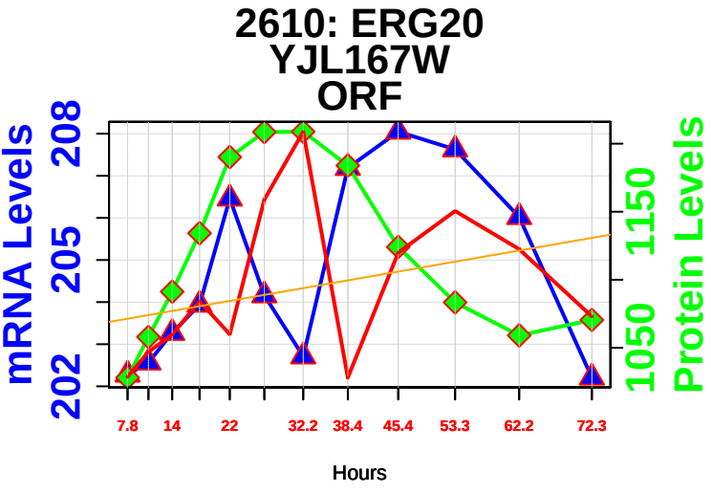
proline utilization

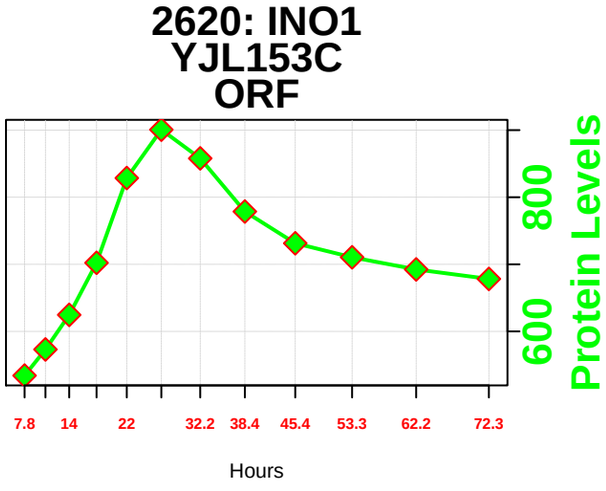





2468: GRE3
YHR104W
ORF
360
400
Protein Levels
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

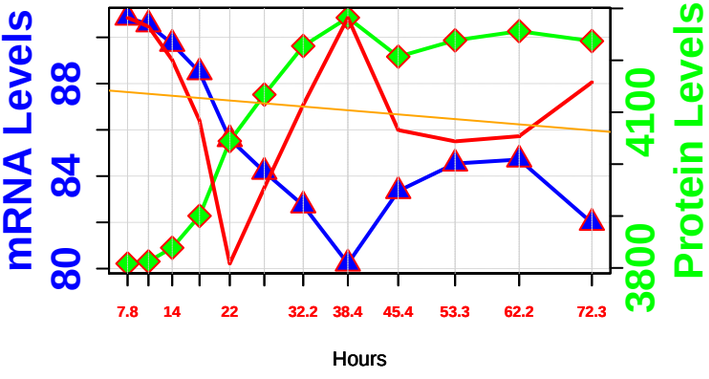
superpathway of ergosterol biosynthesis



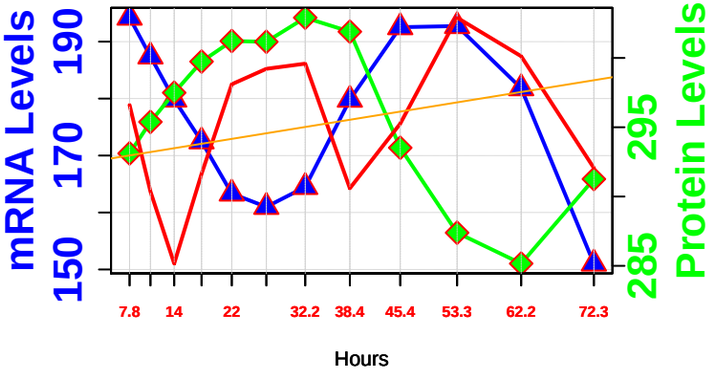

2620: INO1
YJL153C
ORF
600
800
Protein Levels
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

citrulline biosynthesis

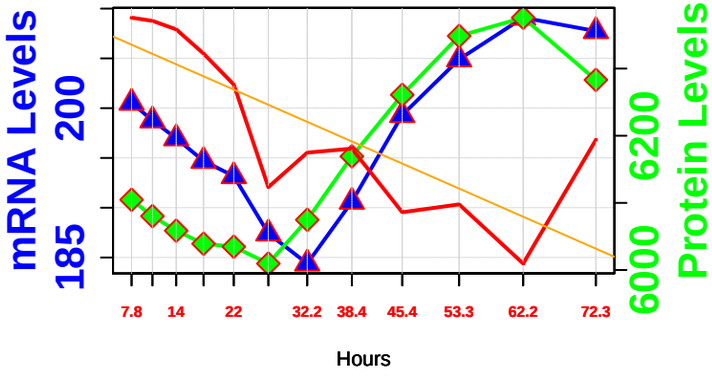
2636: URA2
YJL130C
ORF



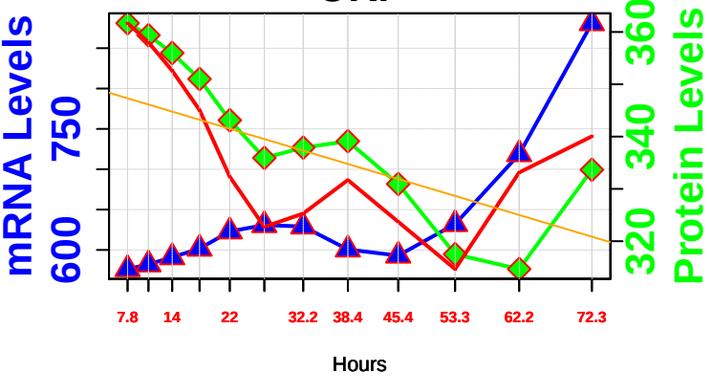
2669: ARG3
YJL088W
ORF



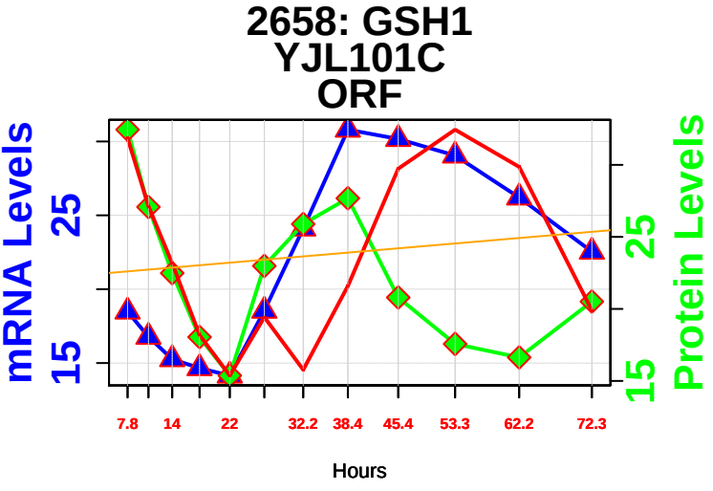
2835: CPA2
YJR109C
ORF

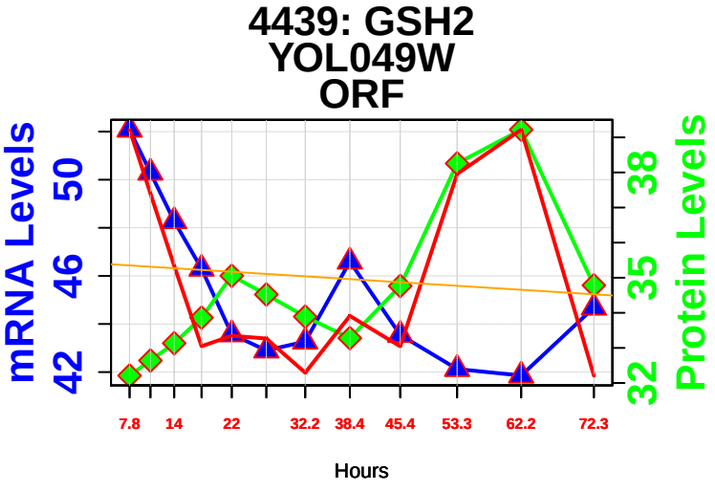


4743: CPA1
YOR303W
ORF

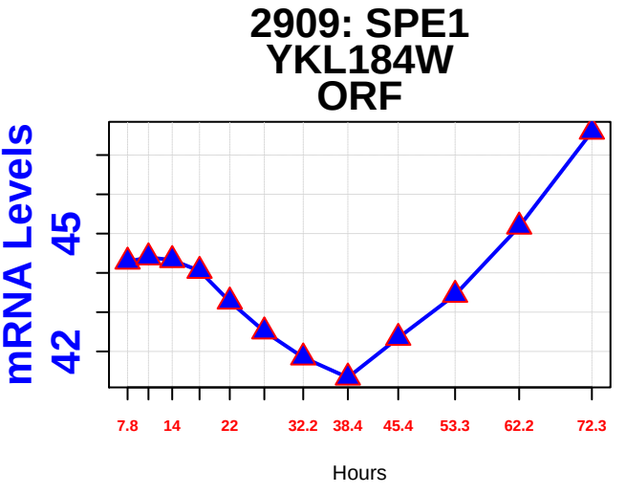


glutathione biosynthesis

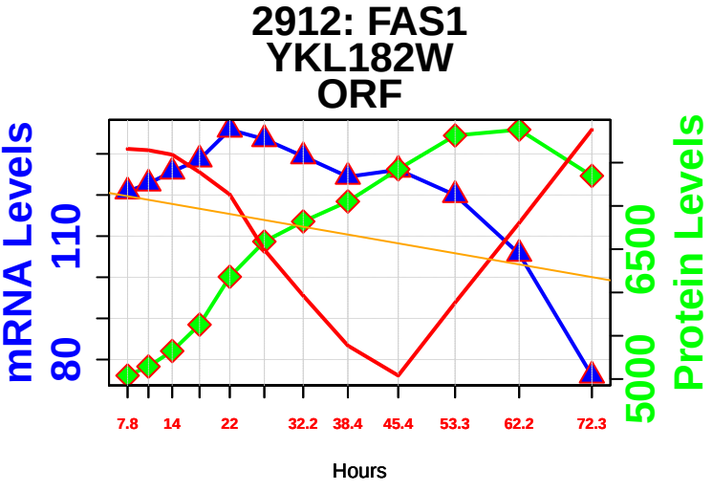


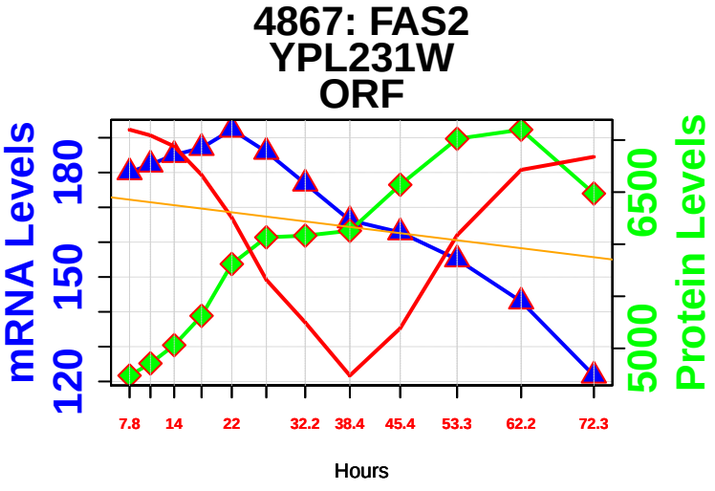


fatty acid biosynthesis (exc

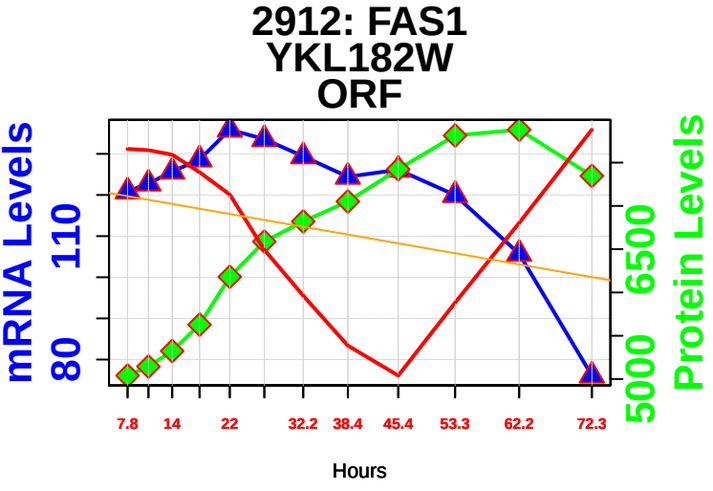


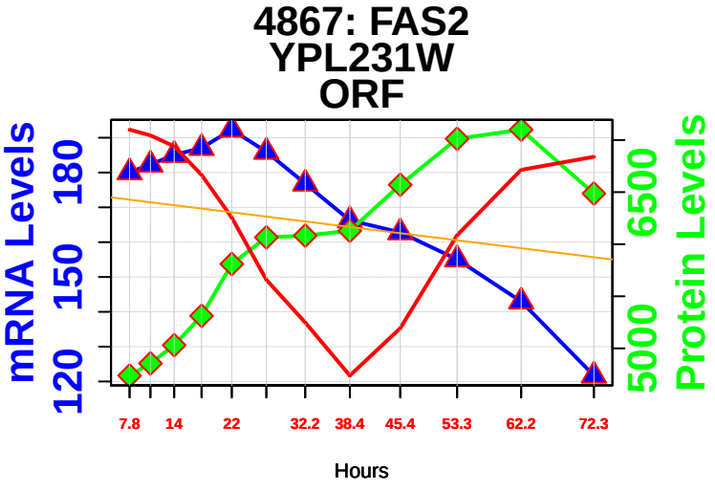
myristate biosynthesis



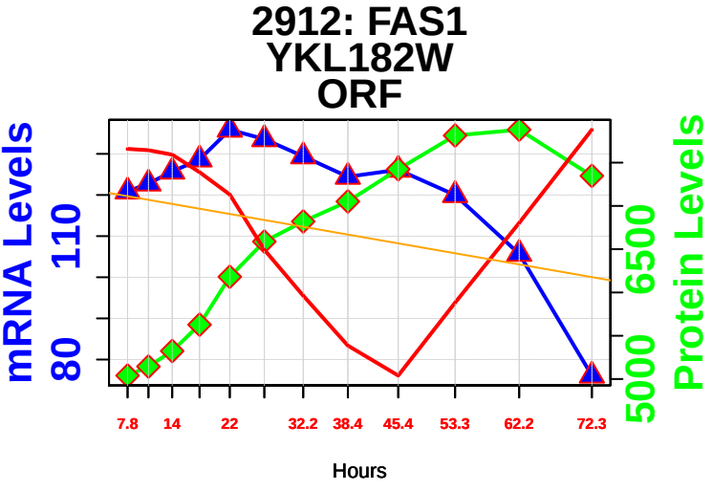


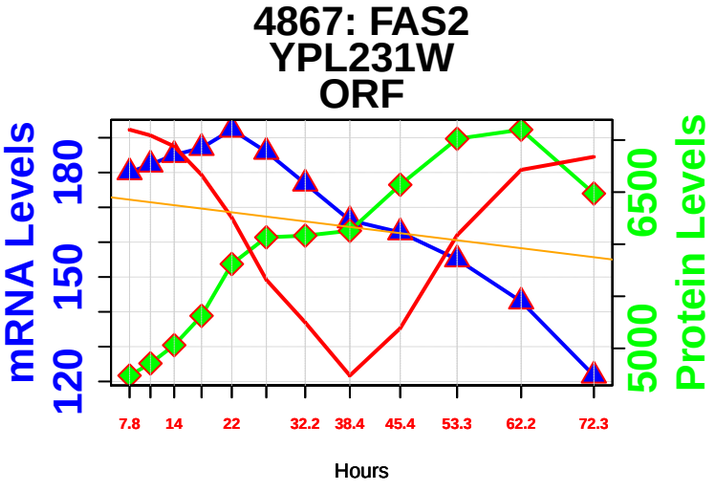
palmitate biosynthesis



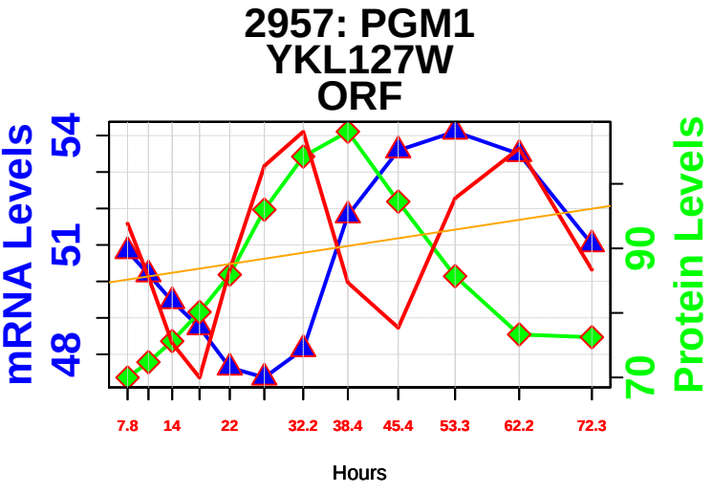


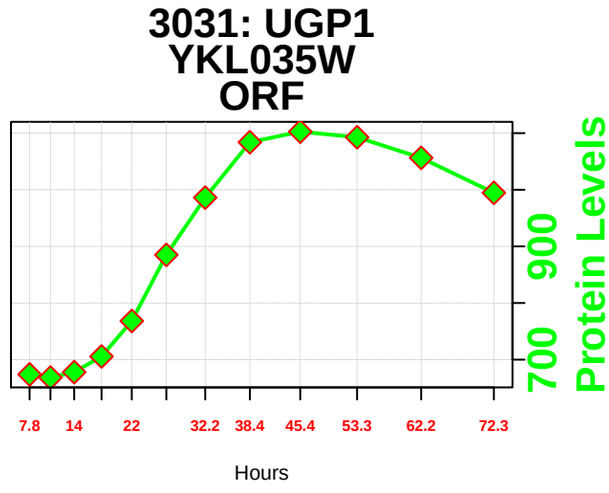
stearate biosynthesis

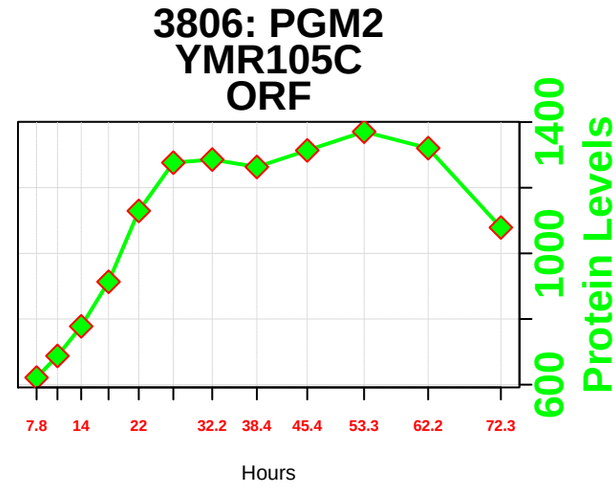


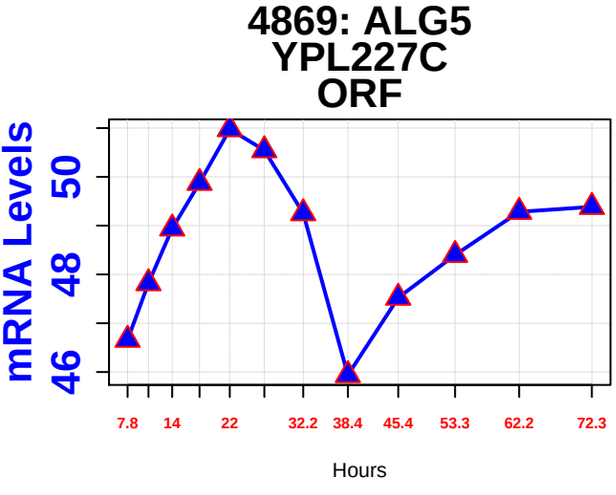


dolichyl glucosyl phosphate biosynthesis

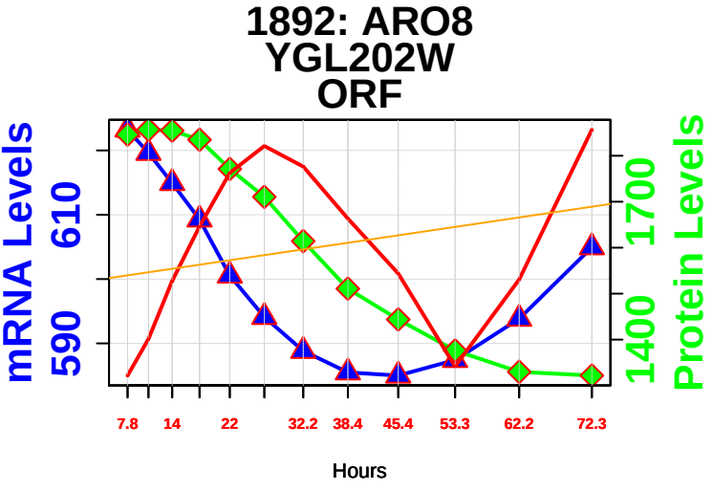


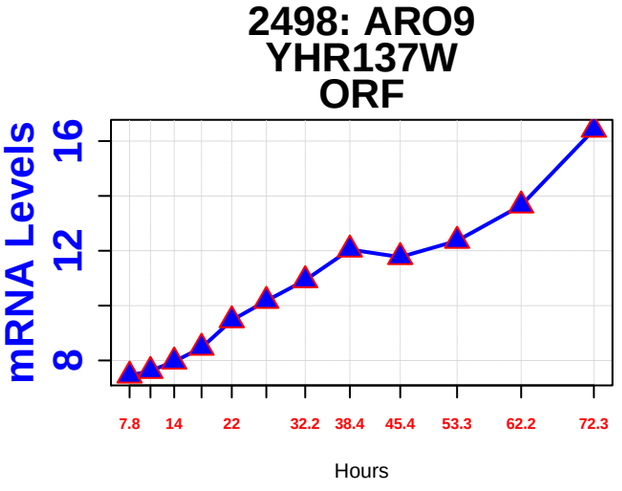


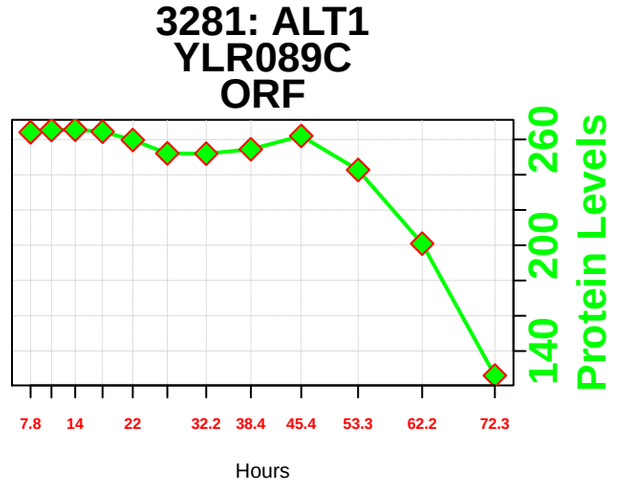


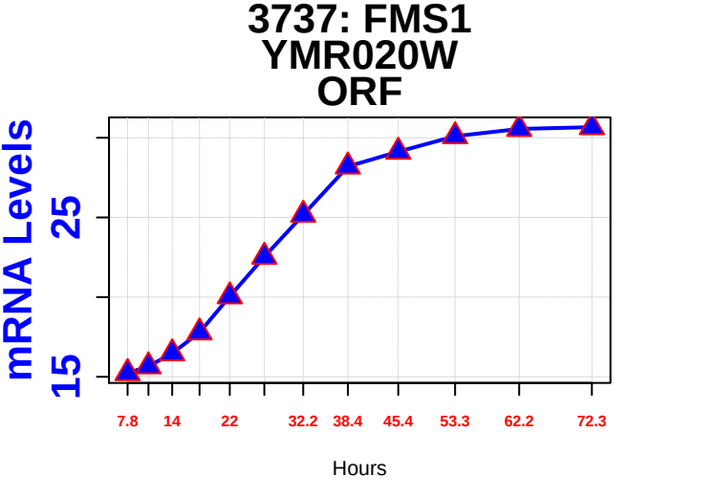


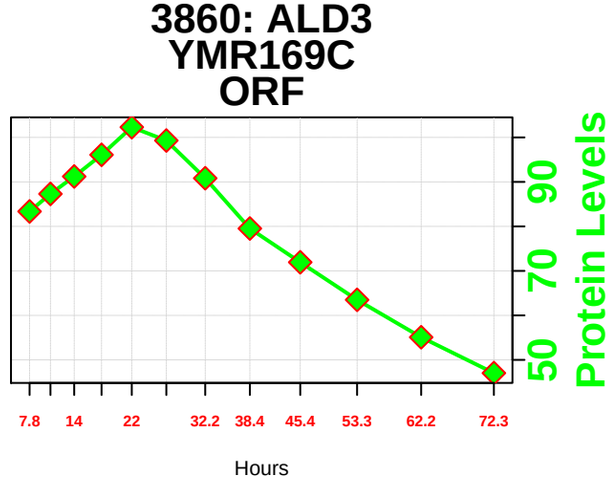
alanine biosynthesis

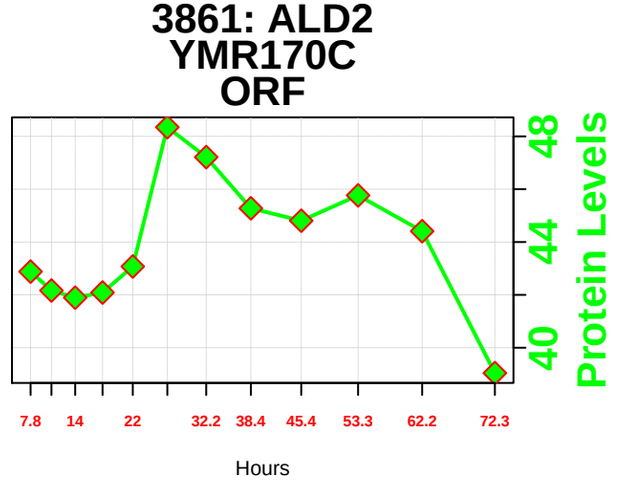


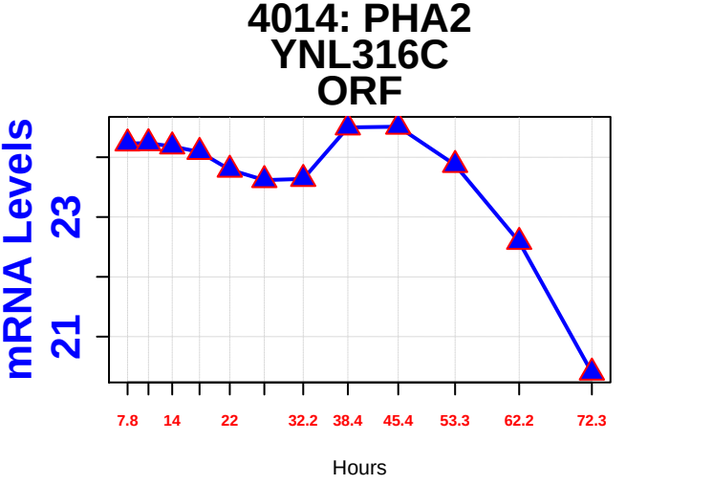


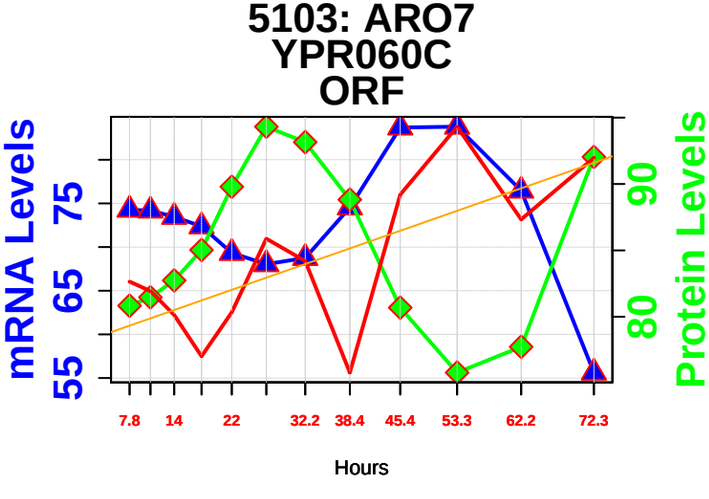


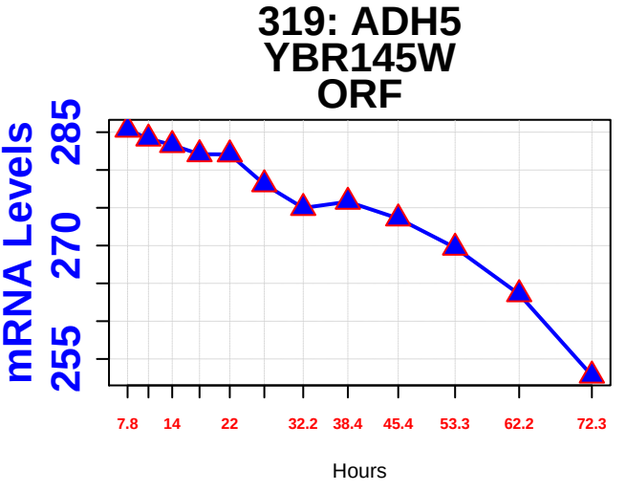


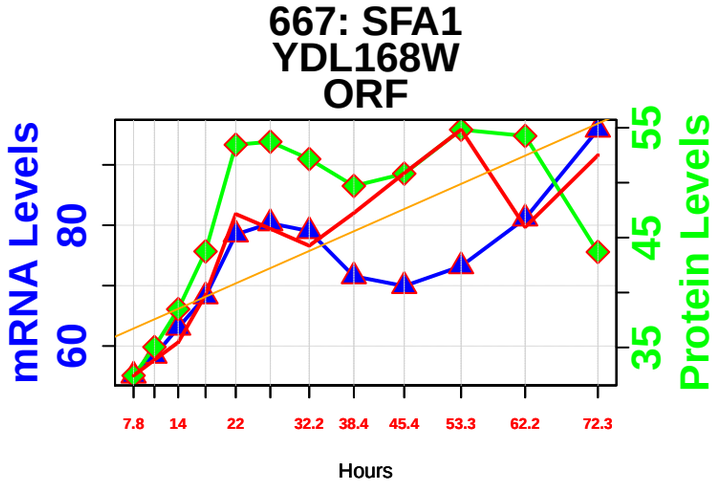


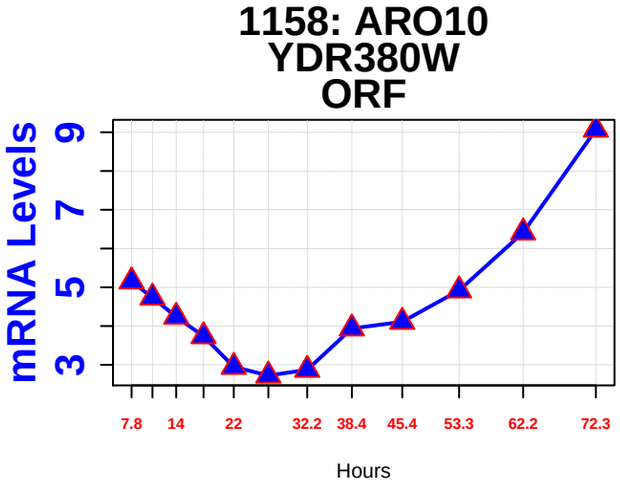


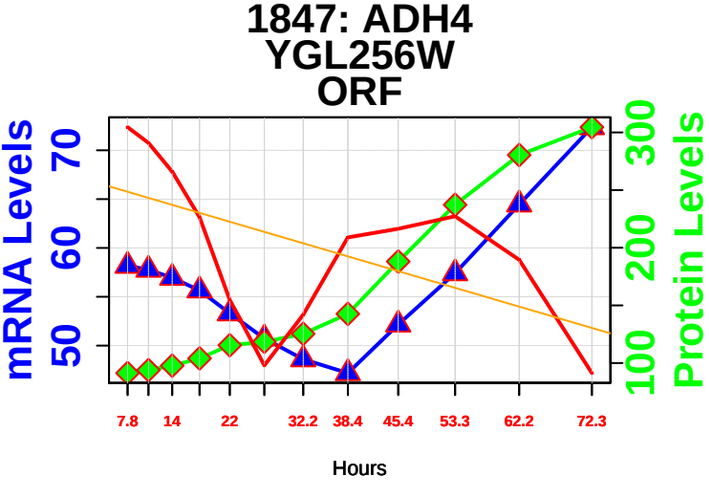


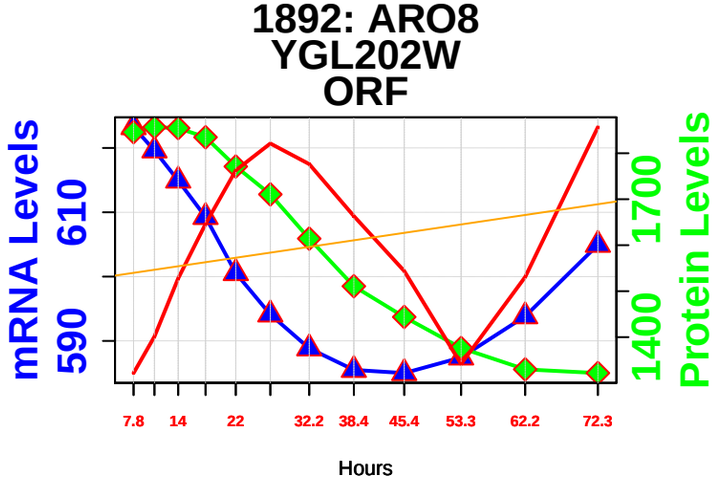


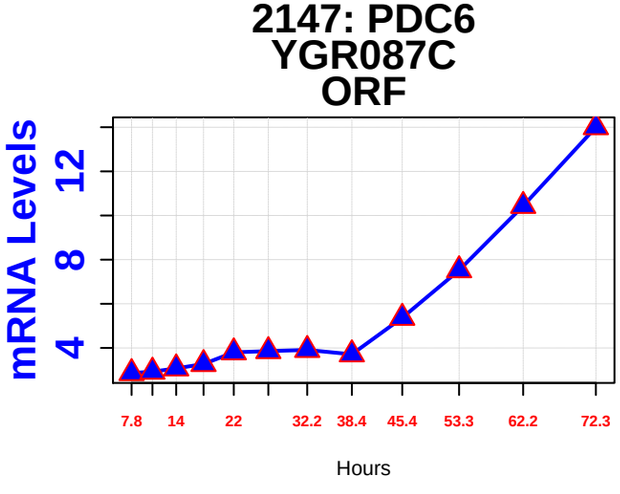

319: ADH5
YBR145W
ORF
mRNA Levels
255 270 285
7.8 14 22 32.2 38.4 45.4 53.3 62.2 72.3
Hours

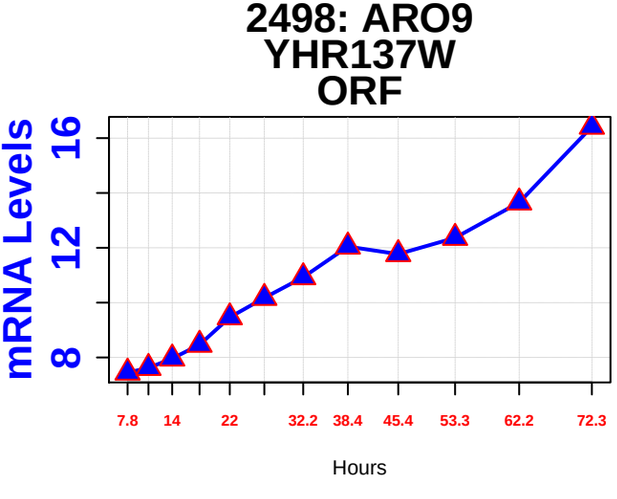

667: SFA1
YDL168W
ORF
mRNA Levels
60 80
Protein Levels
35 45 55
7.8 14 22 32.2 38.4 45.4 53.3 62.2 72.3
Hours

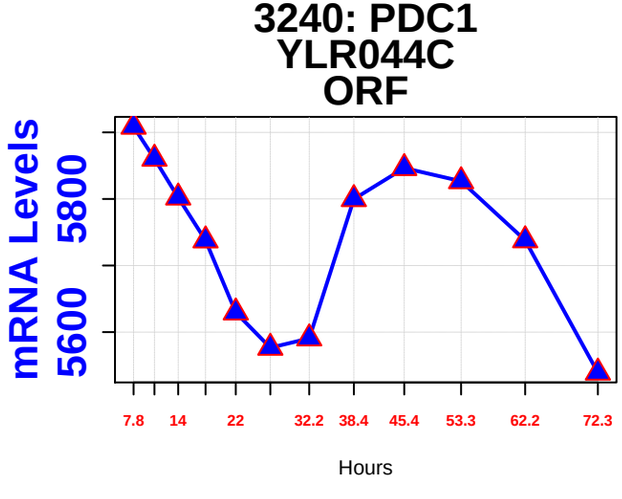

1158: ARO10
YDR380W
ORF
mRNA Levels
3 5 7 9
7.8 14 22 32.2 38.4 45.4 53.3 62.2 72.3
Hours

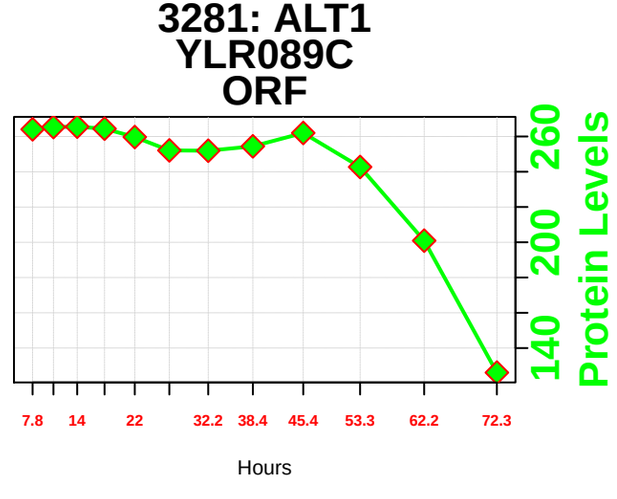

1847: ADH4
YGL256W
ORF
mRNA Levels
50 60 70
Protein Levels
100 200 300
7.8 14 22 32.2 38.4 45.4 53.3 62.2 72.3
Hours


1892: ARO8
YGL202W
ORF
mRNA Levels
590 610
Protein Levels
1400 1700
7.8 14 22 32.2 38.4 45.4 53.3 62.2 72.3
Hours

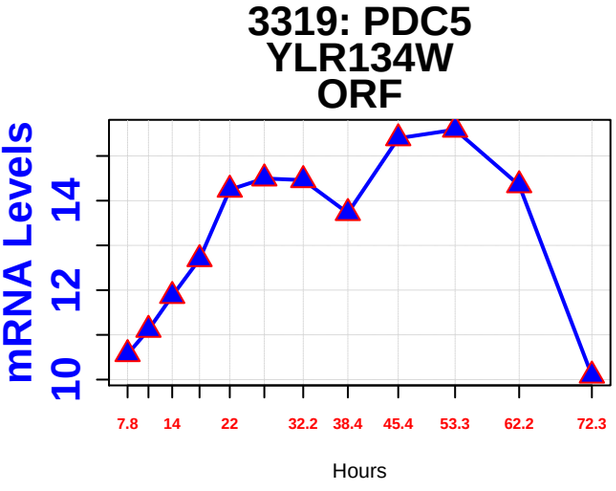

2147: PDC6
YGR087C
ORF
mRNA Levels
4 8 12
7.8 14 22 32.2 38.4 45.4 53.3 62.2 72.3
Hours

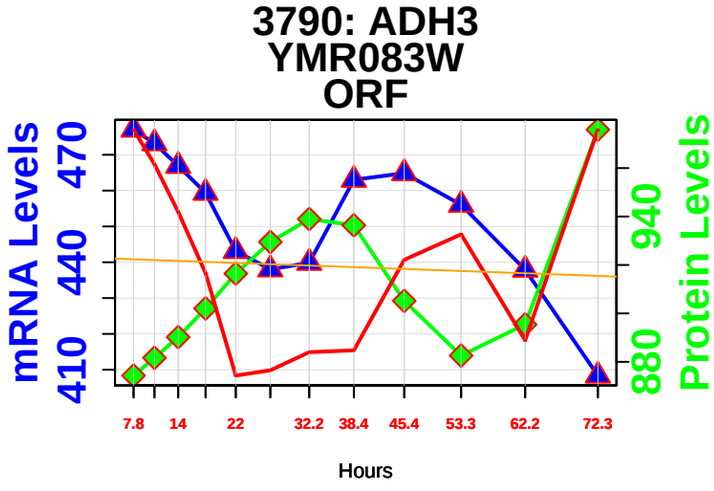

2498: ARO9
YHR137W
ORF
mRNA Levels
8 12 16
7.8 14 22 32.2 38.4 45.4 53.3 62.2 72.3
Hours

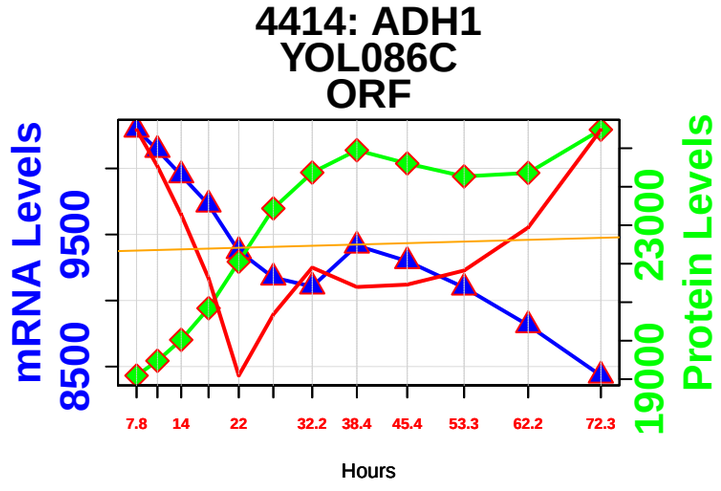

3240: PDC1
YLR044C
ORF
mRNA Levels
5600 5800
7.8 14 22 32.2 38.4 45.4 53.3 62.2 72.3
Hours


3281: ALT1
YLR089C
ORF
Protein Levels
140 200 260
7.8 14 22 32.2 38.4 45.4 53.3 62.2 72.3
Hours

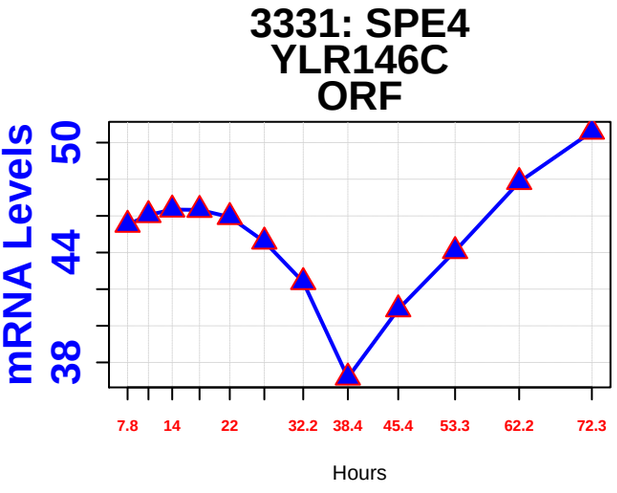
alanine degradation

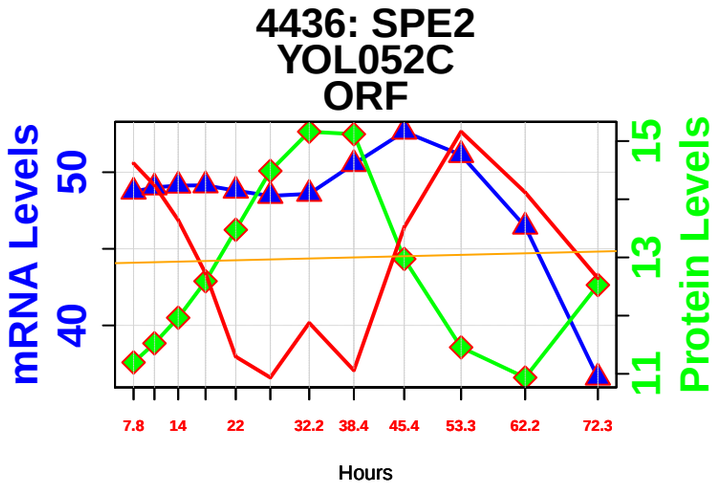


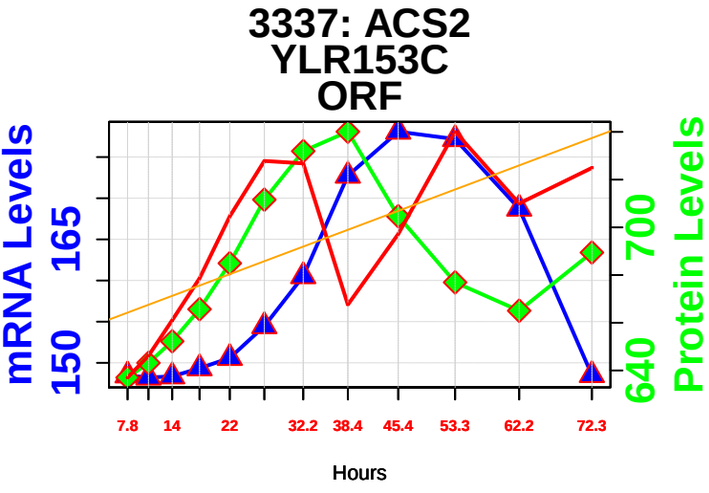




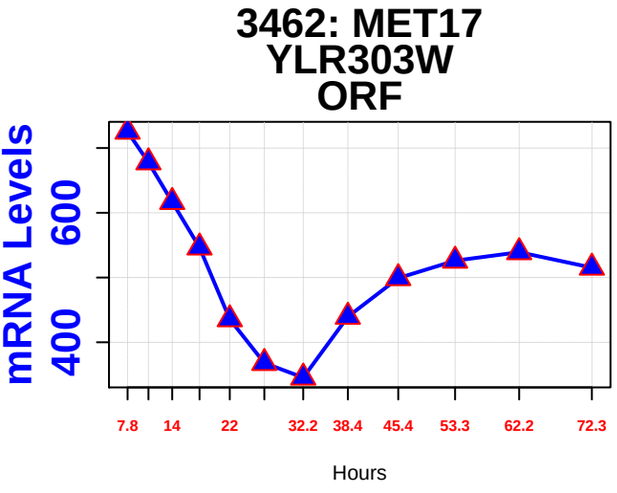
spermine and methylthioadenosine biosynthesis

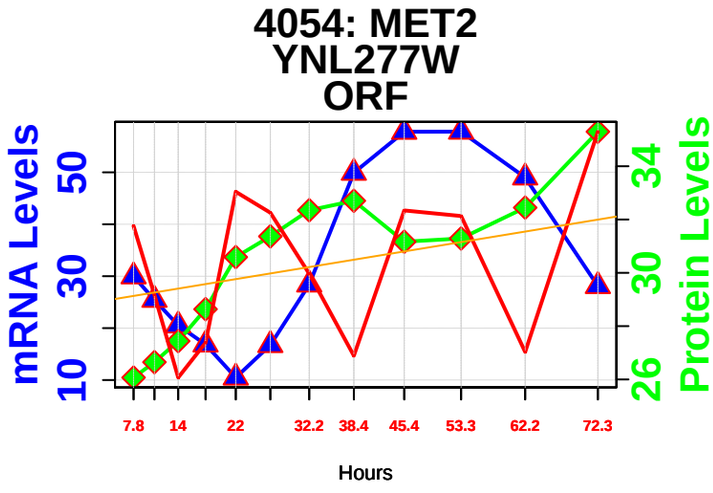




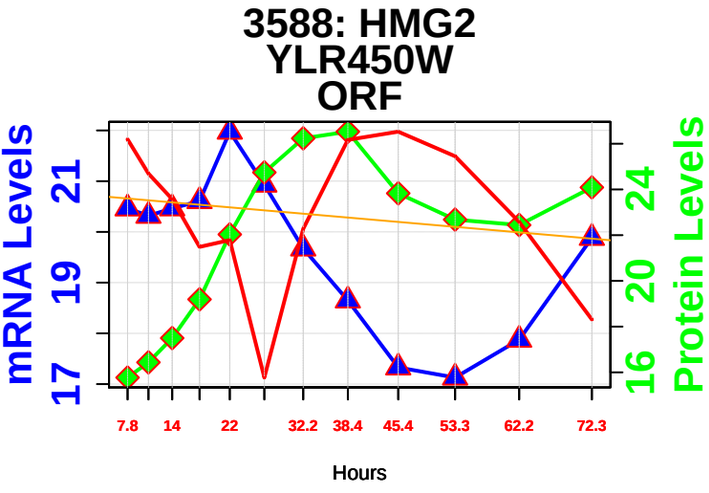

3337: ACS2
YLR153C
ORF
mRNA Levels
150
165
640
700
Protein Levels
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours

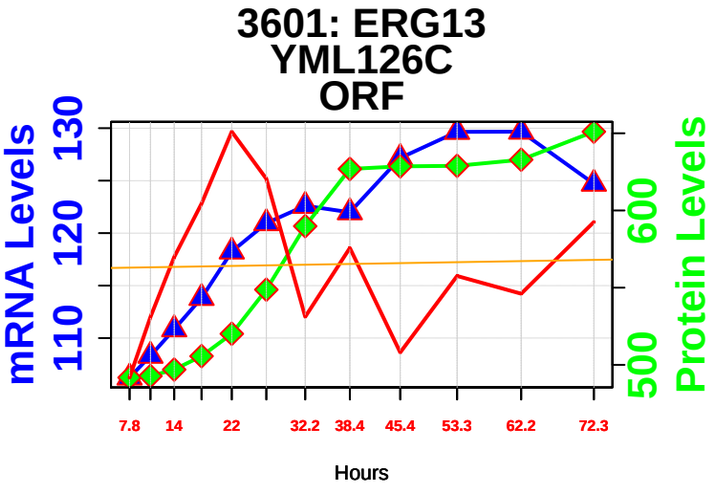
homocysteine biosynthesis

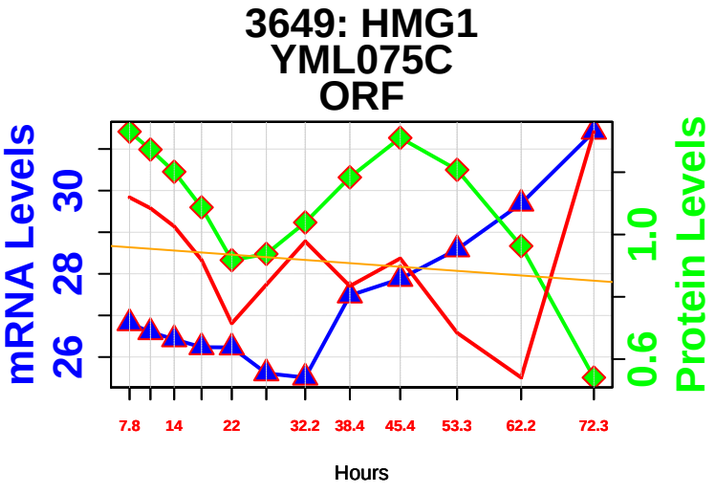


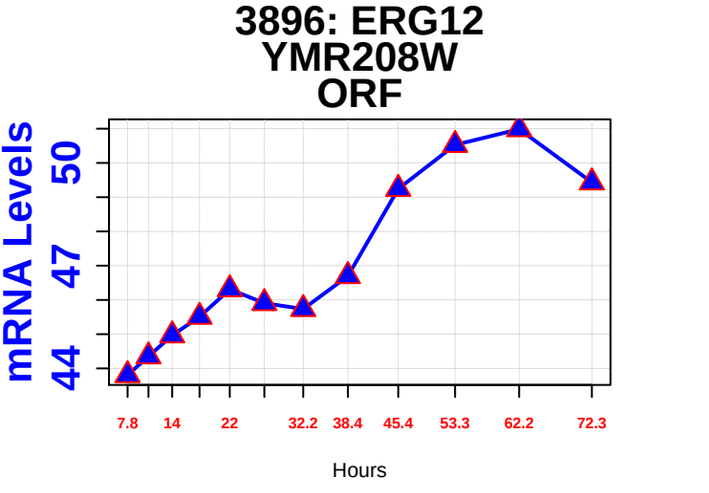


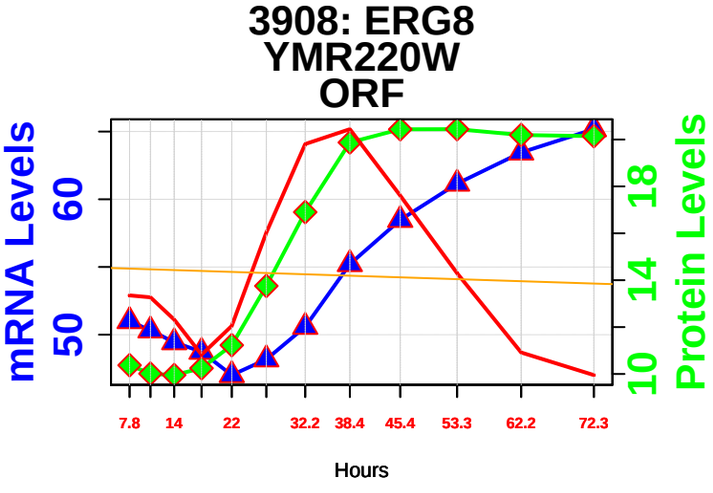
mevalonate pathway

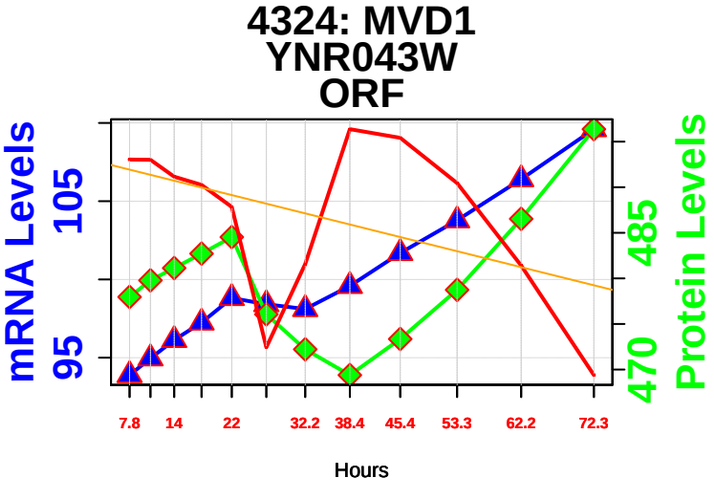


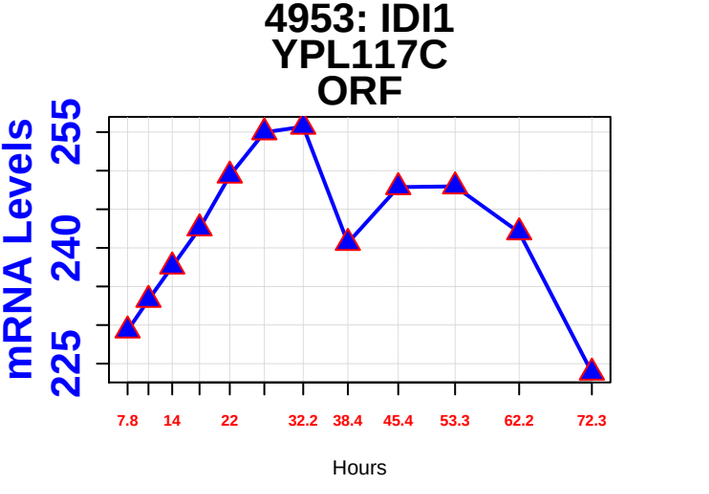


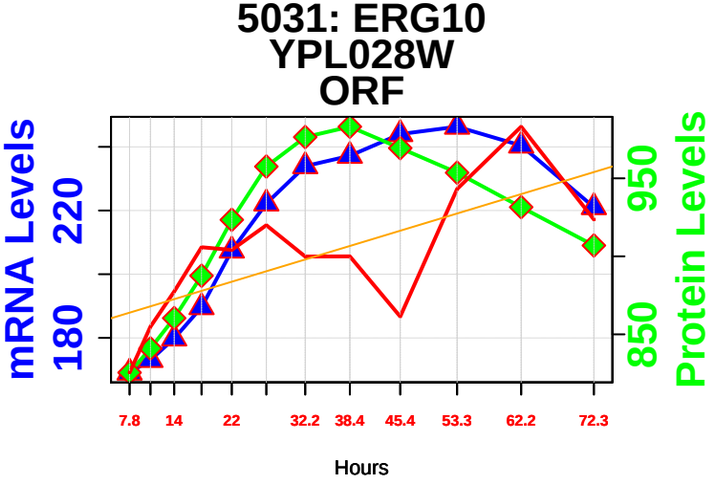




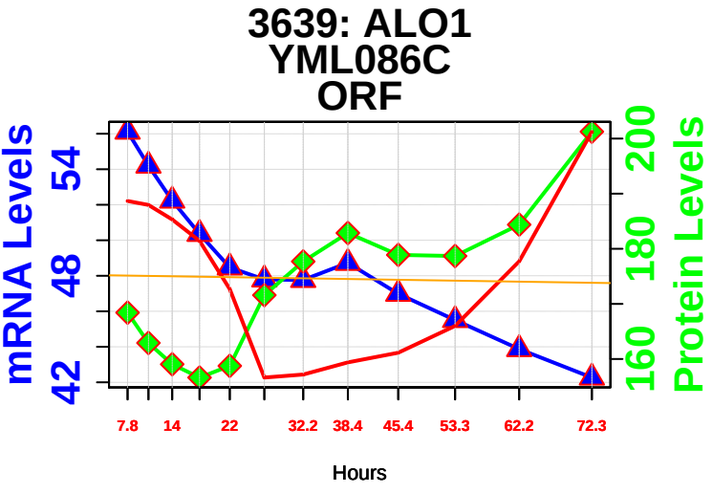




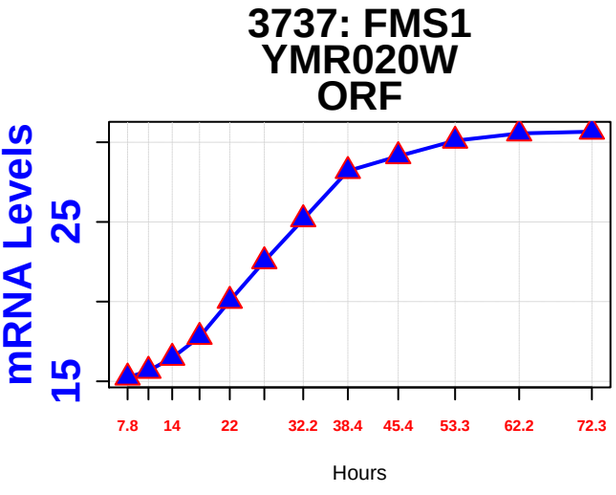


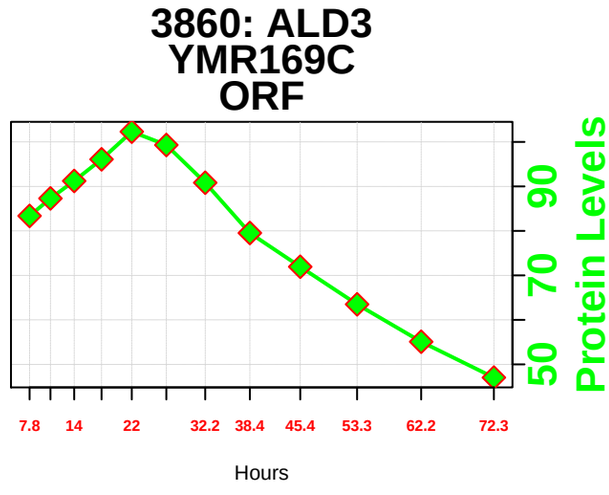


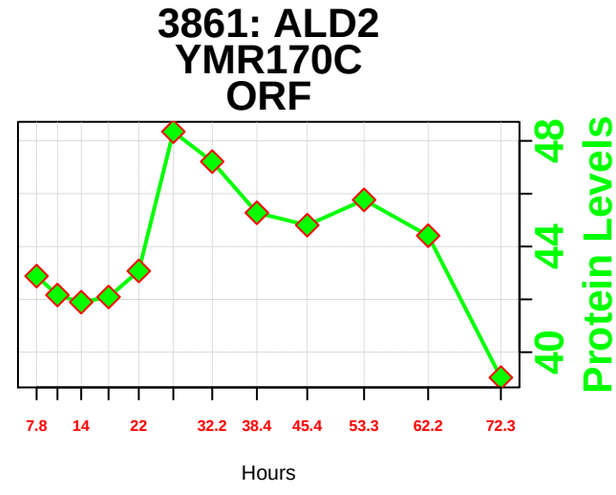
dehydro−D−arabinono−1,4−lactone biosynthesis



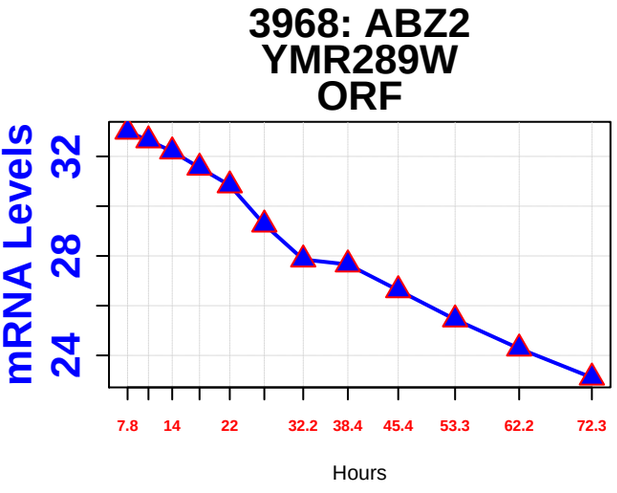
beta−alanine biosynthesis

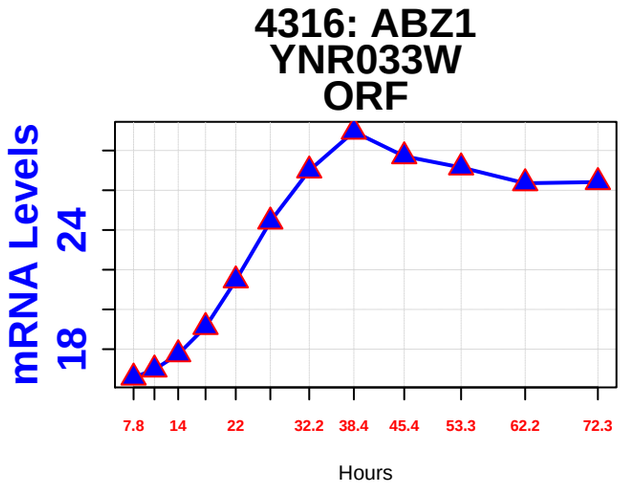




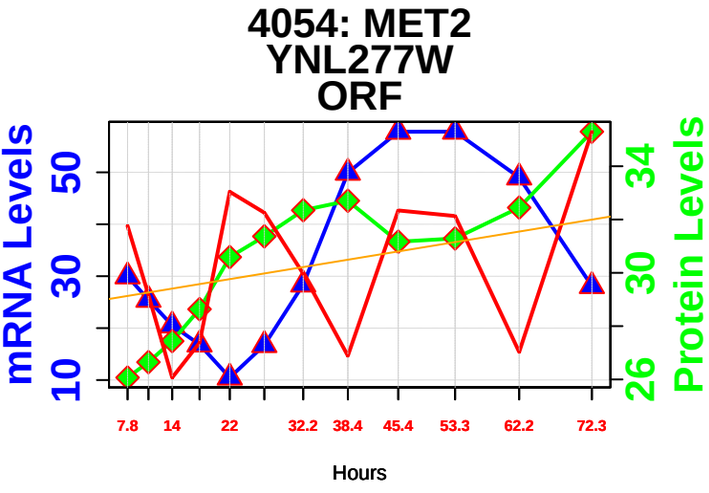


p−aminobenzoate biosynthesis

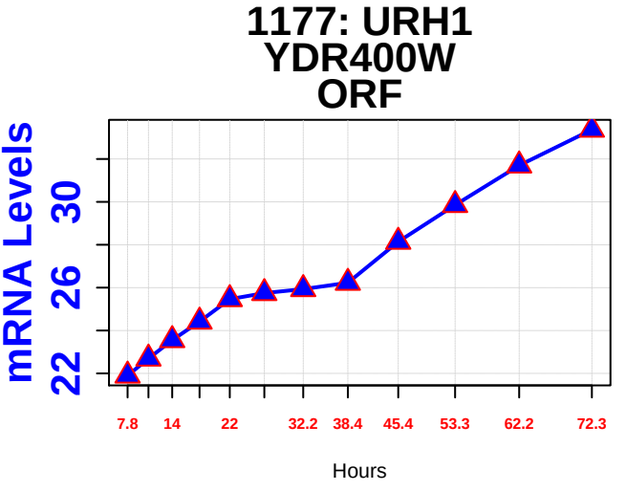


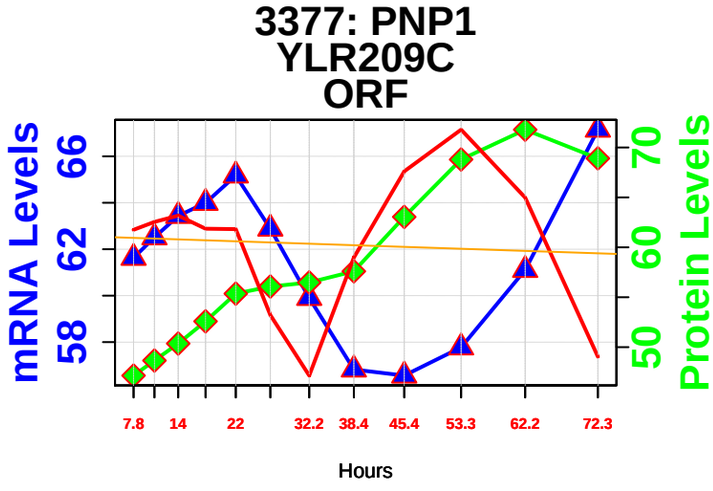


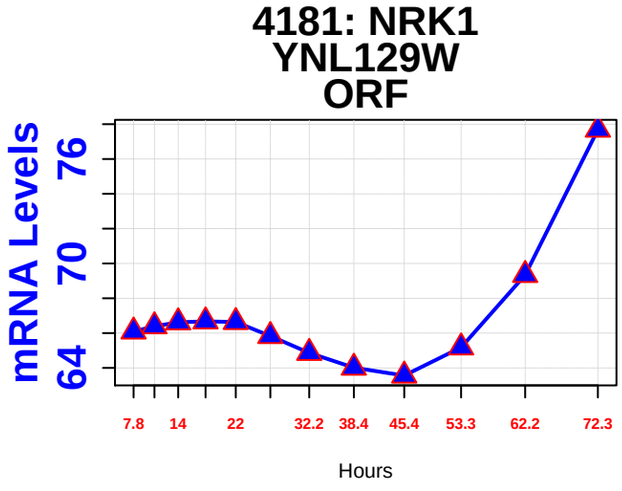
superpathway of sulfur amino acid biosynthesis



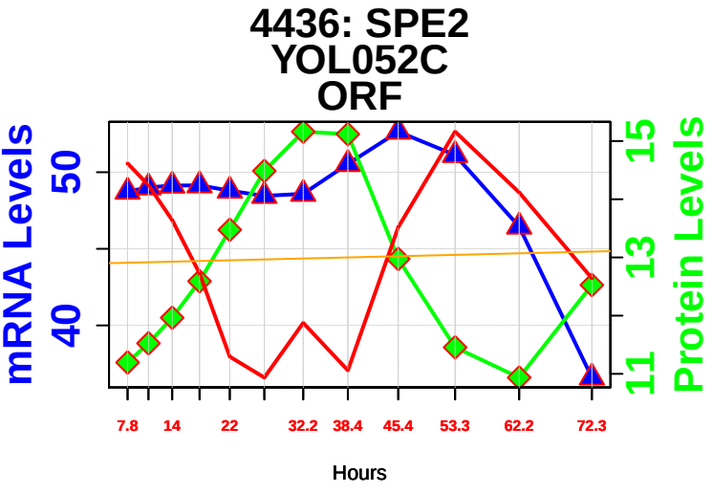
nicotinate riboside salvage pathway I

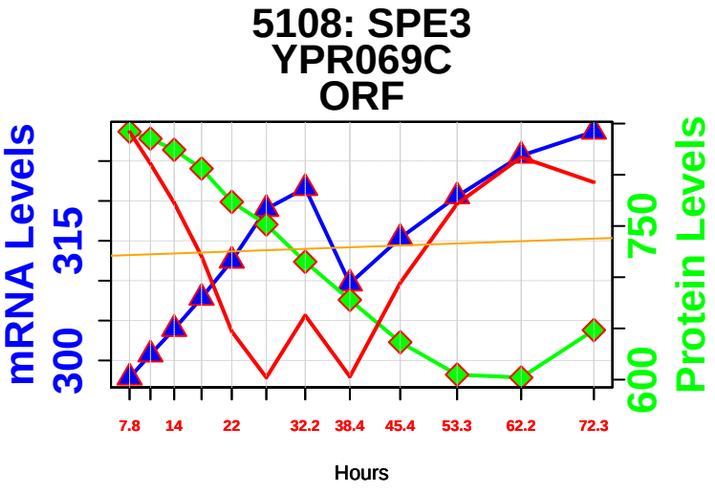




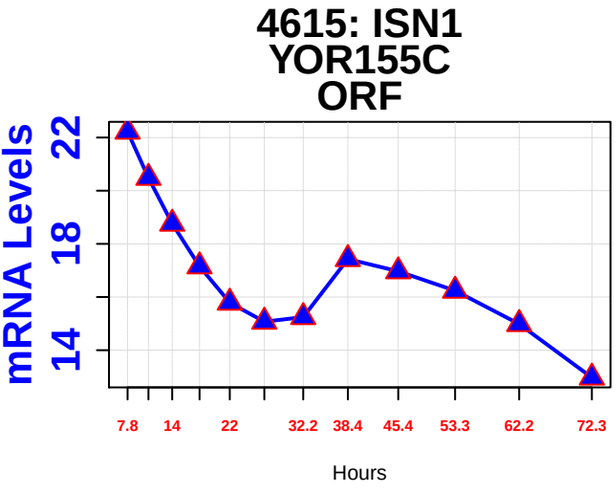


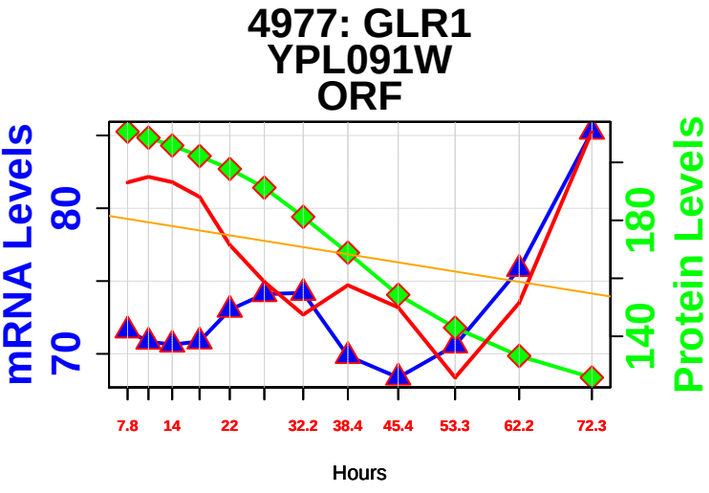
spermidine and methylthioadenosine biosynthesis





superpathway of purine biosynthesis and salvage pathways

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ORF
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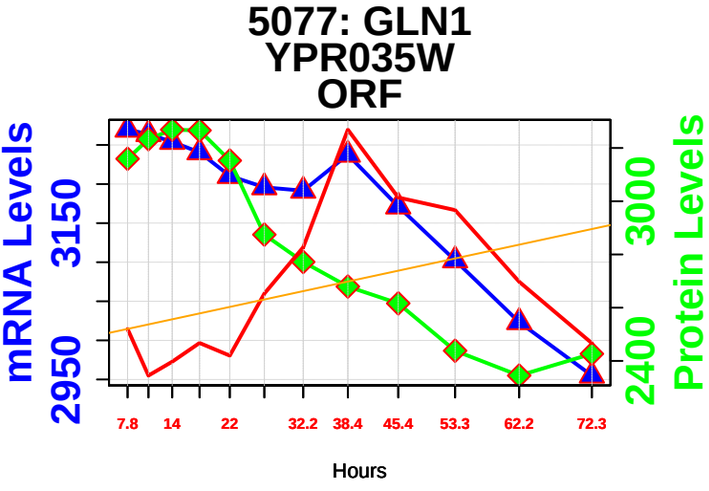
80
70
180
140
Protein Levels
7.8
14
22
32.2
38.4
45.4
53.3
62.2
72.3
Hours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ORF
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Protein Levels
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45.4
53.3
62.2
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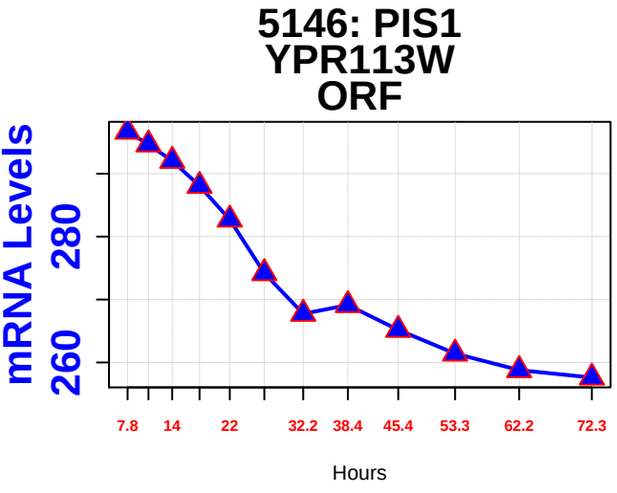
Hours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ORF
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22
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38.4
45.4
53.3
62.2
72.3
Hours

glycogen catabolism