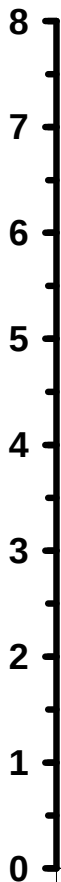


mRNA fold change respect 11 hrs



|                               | 9 hr | 13 hr | 15 hr | 17 hr | 19 hr | 21 hr |
|-------------------------------|------|-------|-------|-------|-------|-------|
| KDHS reductase, X27           | 0.96 | 1.26  | 0.91  | 0.71  | 0.92  | 0.89  |
| Dihydro-Cdase, X29            | 0.92 | 1.96  | 1.82  | 1.55  | 3.65  | 3.33  |
| IPC Synthase, X33             | 1.03 | 1.15  | 0.80  | 0.72  | 0.59  | 0.58  |
| Cer Synthase, X34             | 0.91 | 1.14  | 1.12  | 1.08  | 0.74  | 0.60  |
| MIPC Synthase, X35            | 0.87 | 1.44  | 0.87  | 0.95  | 1.31  | 1.68  |
| Sphingoid Base Kinase, X36    | 1.00 | 1.14  | 0.93  | 0.91  | 2.02  | 1.39  |
| SB-Ppase, X41                 | 1.20 | 1.28  | 1.13  | 1.04  | 1.14  | 0.69  |
| GUP1p, X43                    | 1.00 | 1.51  | 1.37  | 1.29  | 1.25  | 1.13  |
| Lyase, X50                    | 0.93 | 1.26  | 1.09  | 1.06  | 1.45  | 0.92  |
| IPCase, X51                   | 0.81 | 1.17  | 0.75  | 0.66  | 1.11  | 1.08  |
| Phyto-Cdase, X53              | 1.02 | 1.74  | 2.76  | 2.37  | 7.95  | 3.59  |
| Hydroxylase, X54              | 0.73 | 1.21  | 0.71  | 0.86  | 0.77  | 0.56  |
| M(IP)2C Synthase, X55         | 0.88 | 1.30  | 0.84  | 0.74  | 1.30  | 0.91  |
| SPT, X57                      | 0.95 | 1.13  | 0.86  | 0.85  | 0.86  | 0.99  |
| ELO1p, X59                    | 0.98 | 1.45  | 1.01  | 1.16  | 0.68  | 0.36  |
| IPCase-Dihydro formation, X64 | 0.81 | 1.17  | 0.75  | 0.66  | 1.11  | 1.08  |