

**Table S1. Burst parameters for the different genes and conditions studied in The liver (truncated table)**

<b>Gene+Condition</b>	<b>M</b>	<b>S.E.</b>	<b><math>\mu</math>(mRNA/hr)</b>	<b>S.E.</b>	<b><math>\delta</math>(1/hr)</b>	<b>S.E.</b>	<b><i>f</i></b>	<b>S.E.</b>	<b>Kon(1/hr)</b>
Acly fed PP	6.3	0.6	15.0	1.4	0.025	0.005	0.336	0.05	0.059
Actb fed PC	4.1	0.4	138.9	15	0.044	0.023	0.075	0.038	0.273
Actb fed PP	4.5	0.5	151.2	15.4	0.021	0.01	0.034	0.014	0.075
Ass1 high-fed PC	19.1	1.4	46.3	3.5	0.042	0.008	0.262	0.045	0.034
Ass1 high-fed PP	19.2	1.1	46.7	2.6	0.048	0.006	0.456	0.043	0.077
Ass1 fed PP	14.0	0.7	34.0	1.7	0.041	0.004	0.441	0.032	0.066
Ass1 fasting PC	39.3	1.4	95.4	3.5	0.194	0.014	0.645	0.034	0.094
Ass1 fasting PP	28.0	0.8	68.0	1.9	0.113	0.006	0.62	0.026	0.066
Fasn fed PP	21.2	0.9	139.9	5.8	0.434	0.035	0.541	0.033	0.142
G6pc high-fed PC	20.5	1.8	246.9	21.9	0.268	0.075	0.09	0.023	0.201
G6pc high-fed PP	18.5	1.9	222.3	22.6	0.173	0.052	0.089	0.025	0.083
G6pc fed PC	37.9	3.0	455.7	35.7	2.494	0.387	0.632	0.065	0.782
G6pc fed PP	38.0	1.3	457.6	15.9	1.856	0.14	0.75	0.042	0.928
G6pc fasting PC	33.2	1.6	399.8	19.4	1.274	0.109	0.848	0.043	0.427
G6pc fasting PP	25.7	0.7	309.5	8.4	1.183	0.103	0.846	0.033	1.048
Pck1 high-fed PP	4.6	1.3	90.2	24.9	0.018	0.013	0.022	0.015	0.009
Pck1 fed PC	29.5	2.5	584.0	50	0.936	0.27	0.227	0.061	0.231
Pck1 fed PP	17.2	0.8	341.0	15	0.965	0.076	0.729	0.037	0.651
Pck1 fasting PC	35.5	1.1	703.4	21.1	1.965	0.169	0.826	0.046	1.320
Pck1 fasting PP	27.4	0.8	542.4	15.5	1.282	0.065	0.864	0.032	1.239
Srebf1 fed PP	19.0	1.3	108.1	7.1	0.129	0.039	0.102	0.029	0.089
Insr fed PP	1.8	0.2	1.7	0.2	0.002	0.001	0.063	0.014	0.001