

1 **Supplementary Table 3.** Association between placental protein expression and maternal variables.

<i>Maternal variables</i>	GA	P-BMI	WG	Glucose	HbA1c	TG	T CHOL	HDL	LDL	Insulin	HOMA-IR	IGF1	Adiponectin	Leptin
AMPK	-0.127	-0.234	0.057	0.016	0.083	-0.030	-0.008	-0.121	-0.008	0.042	0.001	0.149	-0.200	-0.055
p-AMPK	<b>-0.380</b>	<b>-0.358</b>	-0.117	-0.190	-0.246	-0.191	0.051	0.170	0.082	-0.062	-0.098	-0.137	0.050	0.000
LKB1	-0.299	-0.269	-0.077	-0.103	-0.012	-0.112	-0.075	0.013	-0.106	-0.003	-0.050	0.007	-0.281	-0.095
p-LKB1	<b>-0.390</b>	<b>-0.341</b>	-0.168	-0.266	-0.247	-0.225	-0.056	0.154	-0.026	-0.077	-0.127	-0.110	0.003	-0.027
SIRT1	-0.296	-0.259	-0.042	0.022	0.092	0.096	0.051	0.131	0.033	-0.163	-0.123	<b>-0.435</b>	-0.033	0.128
PGC1a	-0.287	-0.219	-0.106	-0.041	-0.272	-0.103	-0.035	0.021	-0.002	-0.143	-0.135	-0.274	0.138	-0.076
mTOR	0.061	0.034	-0.035	0.194	0.238	0.169	0.086	-0.183	0.050	0.025	0.047	0.088	-0.244	-0.084
p-mTOR	0.252	0.217	0.067	<b>0.618</b>	0.237	0.132	0.070	-0.060	0.063	0.076	0.192	-0.299	-0.062	0.182
INSRb	-0.053	-0.045	-0.271	-0.073	0.116	0.051	-0.002	0.261	-0.073	-0.179	-0.183	-0.205	-0.058	0.235
IGF1R	<b>0.344</b>	0.179	0.197	0.186	-0.004	0.101	0.051	-0.020	-0.057	0.038	0.049	0.178	-0.106	0.091
p-IGF1R	0.227	-0.097	<b>0.379</b>	0.060	0.026	-0.021	0.023	-0.013	0.008	0.229	0.221	0.014	-0.144	0.192
p-PDK1	0.072	0.046	-0.206	-0.003	-0.084	0.005	0.182	0.122	0.149	0.070	0.023	0.080	-0.115	-0.064
AKT	-0.256	-0.045	<b>-0.374</b>	0.013	-0.081	0.154	0.122	0.266	-0.005	-0.195	-0.173	-0.167	-0.188	0.242
p-AKT308	-0.065	-0.160	-0.129	<b>0.403</b>	0.239	0.080	0.116	0.279	0.049	0.133	0.213	-0.265	-0.025	<b>0.336</b>
p-AKT473	0.028	0.121	-0.021	0.151	0.247	0.187	0.139	<b>0.390</b>	-0.007	0.002	0.039	0.012	0.164	0.203

2 GA (Gestational age), P-BMI (pregestational BMI), WG (weight gain), TG (Triglycerides), T CHOL (Total cholesterol).

3 Values shown correspond to r correlation coefficients. Bold values indicate p&lt;0.05 for correlation.