

1 **Supplementary Table 2.** Association between placental protein expression and neonatal variables.

<i>Neonatal variables</i>	Birth Weight	Birth Size	Placental Weight	CP	TP	AP	Glucose	Insulin	HOMA-IR	T CHOL	HDL	LDL	VLDL	Leptin	IGF1	IGFBP3	IGFBP1	IGF2	
AMPK	-0.174	-0.153	-0.184	-0.047	-0.178	-0.066	0.315	-0.395	-0.255	0.344	0.052	0.004	-0.072	0.344	-0.156	-0.232	-0.054	0.239	0.059
p-AMPK	-0.774	-0.668	-0.694	-0.520	-0.733	-0.663	0.028	-0.58	-0.58	0.076	-0.154	-0.092	-0.216	0.076	-0.625	-0.494	-0.206	0.296	-0.114
LKB1	-0.382	-0.295	-0.281	-0.160	-0.411	-0.277	0.081	-0.353	-0.351	0.180	-0.076	-0.076	-0.182	0.180	-0.345	-0.398	-0.116	0.104	-0.132
p-LKB1	-0.782	-0.690	-0.709	-0.523	-0.759	-0.684	-0.057	-0.566	-0.594	0.047	-0.165	-0.132	-0.213	0.047	-0.585	-0.568	-0.261	0.232	-0.151
SIRT1	-0.418	-0.299	-0.281	-0.258	-0.458	-0.374	-0.169	-0.202	-0.296	0.061	-0.047	-0.115	-0.022	0.061	-0.358	-0.262	-0.179	-0.004	-0.080
PGC1a	-0.523	-0.567	-0.381	-0.281	-0.483	-0.436	0.058	-0.375	-0.356	-0.01	-0.020	-0.080	0.041	-0.01	-0.533	-0.350	-0.198	0.083	0.060
mTOR	0.388	0.270	0.286	0.308	0.388	0.358	0.101	0.0406	0.057	-0.12	0.127	0.115	0.102	-0.12	0.151	0.376	0.258	-0.193	0.169
p-mTOR	0.461	0.374	0.523	0.383	0.395	0.411	0.116	0.296	0.306	0.085	0.209	0.080	0.248	0.085	0.194	0.331	-0.009	-0.213	0.150
INSRb	-0.087	-0.063	-0.168	-0.083	-0.015	-0.109	-0.088	0.199	0.142	0.135	-0.072	0.051	-0.215	0.135	-0.162	-0.028	-0.135	-0.071	-0.279
IGF1R	0.288	0.332	0.249	0.138	0.308	0.257	0.104	-0.040	0.0514	0.27	0.114	0.146	0.011	0.27	0.220	0.033	-0.029	0.093	-0.175
p-IGF1R	0.142	0.294	0.077	0.051	0.133	0.146	-0.027	0.107	0.141	0.244	-0.210	-0.184	-0.133	0.244	0.069	-0.121	-0.301	0.134	-0.271
p-PDK1	-0.128	0.013	-0.036	-0.208	-0.066	-0.018	0.055	0.069	0.087	0.092	-0.270	-0.200	-0.242	0.092	-0.073	-0.028	0.195	0.038	-0.194
AKT	0.038	0.134	-0.044	0.268	0.036	0.043	-0.177	0.249	0.167	0.053	0.132	0.222	0.002	0.053	-0.060	-0.072	-0.166	-0.173	-0.164
p-AKT308	-0.071	-0.038	-0.118	0.068	-0.054	-0.028	0.112	0.047	0.049	0.133	0.025	0.088	-0.108	0.133	-0.178	-0.047	-0.180	-0.143	0.022
p-AKT473	-0.049	-0.051	-0.147	-0.035	0.002	-0.033	0.138	-0.068	0.032	0.385	0.055	0.088	-0.115	0.385	-0.121	-0.166	-0.205	0.263	0.202

2 CP (Cephalic perimeter), TP (Thoracic perimeter), AP (Abdominal Perimeter), TG (Triglycerides), T CHOL (Total cholesterol).

3 Values shown correspond to r correlation coefficients. Bold values indicate p<0.05 for correlation.