

Table S4. GO-BP pathways involved in the reversal of key genes by PGS in the hypothalamic region

Group ID	Description	$\log_{10} P$
1	translation	-12.665
2	proteasome-mediated ubiquitin-dependent protein catabolic process	-4.3991
3	ribonucleotide biosynthetic process	-4.1779
4	protein localization to lysosome	-3.9783
5	positive regulation of amine transport	-3.7056
6	protein targeting to mitochondrion	-3.6001
7	behavior	-3.4872
8	2-oxoglutarate metabolic process	-3.2201
9	regulation of plasma membrane bounded cell projection organization	-2.9110
10	positive regulation of apoptotic process	-2.8813
11	alternative mRNA splicing, via spliceosome	-2.7408
12	pyrimidine ribonucleotide metabolic process	-2.5593
13	mRNA export from nucleus	-2.4835
14	monoatomic ion transmembrane transport	-2.4171
15	regulation of cell size	-2.2780
16	translational initiation	-2.2609
17	negative regulation of cytoskeleton organization	-2.2347
18	nucleotide catabolic process	-2.2091
19	regulation of myotube differentiation	-2.0342
20	synaptic signaling	-2.0326