

Table S9. KEGG pathways involved in the reversal of key genes by PGS in the thalamic region

Group ID	Description	$\log_{10} P$
1	Pathways of neurodegeneration - multiple diseases - Mus musculus (house mouse)	-6.2955
2	Salmonella infection - Mus musculus (house mouse)	-3.6272
3	Tight junction - Mus musculus (house mouse)	-3.1581
4	Sphingolipid signaling pathway - Mus musculus (house mouse)	-2.9434
5	Adrenergic signaling in cardiomyocytes - Mus musculus (house mouse)	-2.8507
6	Glycolysis / Gluconeogenesis - Mus musculus (house mouse)	-2.6123
7	Spinocerebellar ataxia - Mus musculus (house mouse)	-2.6056
8	Protein processing in endoplasmic reticulum - Mus musculus (house mouse)	-2.5571
9	Neurotrophin signaling pathway - Mus musculus (house mouse)	-2.4656
10	Ribosome - Mus musculus (house mouse)	-2.4498
11	Citrate cycle (TCA cycle) - Mus musculus (house mouse)	-2.4068
12	Thyroid hormone synthesis - Mus musculus (house mouse)	-2.3953
13	Bacterial invasion of epithelial cells - Mus musculus (house mouse)	-2.3381
14	Synaptic vesicle cycle - Mus musculus (house mouse)	-2.3103
15	Autophagy - animal - Mus musculus (house mouse)	-2.1421
16	Endocytosis - Mus musculus (house mouse)	-2.0049