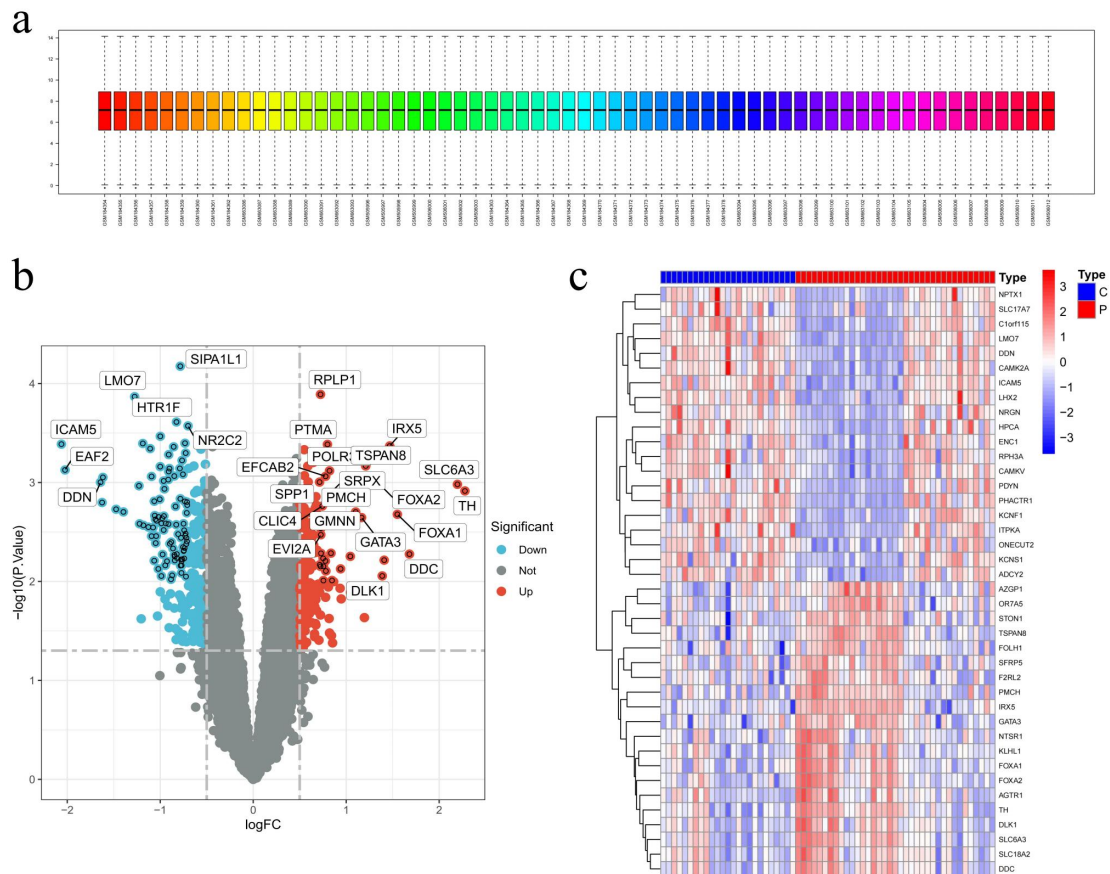


Supplemental Material

Supplemental Figure

Supplemental Figure 1



Supplemental Figure 1. Data processing and differential analysis

(a) Normalization of datasets across different platforms and batch effect removal. (b) Volcano plot displaying differentially expressed genes (DEGs) after normalization; upregulated genes in red and downregulated genes in blue. (c) Heatmap illustrating the distribution of DEGs in normalized datasets (red indicates high expression, blue indicates low expression).

Supplemental Table

Supplemental Table 1. Clinical details of PD patients and healthy controls in this study.

	PD (n=40)	HC (n=40)
Gender (female/male)	14/26	20/20
Age (year), median (range)	60(46-87)	51(37-64)
Duration of illness (year), median (range)	6(0.5-10)	N/A
Age of onset (year), median (range)	57.5(41-80)	N/A
UPDRS Scale Score(Score), median (range)	23(9-48)	N/A
Hypertension (percentage)	12 (30%)	10 (25%)
Diabetes (percentage)	5 (12.5%)	3 (7.5%)
Hyperlipidemia (percentage)	10 (25%)	8 (20%)
Movement disorders (percentage)	31 (77.5%)	N/A
Limb tremor (percentage)	29 (72.5%)	N/A
sensory disturbance (percentage)	6 (15%)	N/A
Somnopathy (percentage)	11 (27.5%)	N/A
constipation (percentage)	22 (55%)	N/A