

Table S3. Top 5 biological functions enriched in the benefited genes by EBT.

P-values for enrichment were calculated by Fisher's exact tests.

Category	Gene Set	P-Value
Canonical Pathways	Immune System	6.15×10^{-28}
	Cytokine Signaling in Immune System	2.19×10^{-21}
	Interferon Signaling	6.98×10^{-15}
	Metabolism of RNA	1.36×10^{-13}
	Metabolism of mRNA	9.45×10^{-12}
Gene Ontology Biological Processes	Bipolymer Metabolic Processes	3.27×10^{-19}
	Protein Metabolic Process	5.29×10^{-15}
	Cellular Macromolecule Metabolic Process	4.07×10^{-14}
	Nucleobase/side/tide and Nucleic Acid Metabolic Processes	1.95×10^{-16}
	Cellular Macromolecule Metabolic Process	2.16×10^{-13}