Recombinant Human CLOCK, GST-tagged

Cat. No. CLOCK-11340H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CLOCK protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	1-351a.a.
Description	This gene product regulates circadian rhythm and metabolism. The protein encodes a transcription factor of the basic helix-loop-helix (bHLH) family and a DNA binding histone acetyltransferase. Polymorphisms in this gene may be associated with behavioral changes in certain populations and with obesity and metabolic syndrome. Alternative splicing results in multiple transcript variants.
Storage	The protein is stored in PBS buffer at -20℃. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na2HPO4,17mM NaH2PO4, 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100,15%glycerol.

GENE INFORMATION

Gene Name	CLOCK clock homolog (mouse) [Homo sapiens]

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Official Symbol	CLOCK
Synonyms	CLOCK; clock homolog (mouse); clock (mouse) homolog; circadian locomoter output cycles protein kaput; bHLHe8; KAT13D; KIAA0334; class E basic helix-loop-helix protein 8; circadian locomoter output cycles kaput protein;
Gene ID	9575
mRNA Refseq	NM_004898
Protein Refseq	NP_004889
MIM	601851
UniProt ID	O15516
Chromosome Location	4q12
Pathway	BMAL1:CLOCK/NPAS2 Activates Circadian Expression, organism-specific biosystem; Circadian Clock, organism-specific biosystem; Circadian Repression of Expression by REV-ERBA, organism-specific biosystem; Circadian rhythm - mammal, organism-specific biosystem; Circadian rhythm - mammal, conserved biosystem; Circadian rhythm pathway, organism-specific biosystem; Diurnally regulated genes with circadian orthologs, organism-specific biosystem;
Function	DNA binding; E-box binding; RNA polymerase II core promoter proximal region sequence-specific DNA binding; RNA polymerase II core promoter proximal region sequence-specific DNA binding transcription factor activity; RNA polymerase II transcription factor

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