

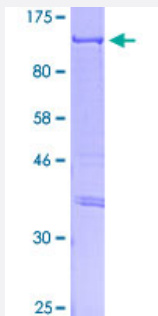
Full-Length

CLOCK (Human) Recombinant Protein (P01)

Catalog # H00009575-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human CLOCK full-length ORF (ABZ92219.1, 1 a.a. - 846 a.a.) recombinant protein with GST tag at N-terminal.

Sequence

MLFTVSCSKMSSIVDRDDSSIFDGLVEEDDKDKAKRVSRNKSEKKRRDQFNVLIKELGSMLPGN
ARKMDKSTVLQKSIDFLRKHKEITAQSDASEIRQDWKPTFISNEEFTQLMLEALDGFFLAIMTDGSII
YVSESVTSLLEHLPSDLVDQSFNFPIEGEHSEVYKILSTHLLSDSLTPEYLKSKNQLEFCCHMLR
GTIDPKEPSTYEVKFIGNFKSLNSVSSSAHNGFEGTIQRTHRPSYEDRVCVATVRLATPQFIKEM
CTVEEPNEEFTSRHSLEWKFLFLDHRAPPIIGYLPFEVLGTSGYDYHVDLENLAKCHEHLMQYG
KGKSCYRFLTKGQQWILQTHYYTYHQWNSRPEFVCTHTVVSYAEVRAERRRELGIEESLPETA
ADKSQDSGSDNRINTVSLKEALERFDHSPTPSASSRSSRKSSHTAVSDPSSTPTKIPTDTSTPPR
QHLPAAHEKMOVRRSSFSSQSINSQSVGSSLTQPVMSQATNLPQPQMSQFQFSAQLGAMQHLK
DQLEQRTRMIEANIHRQQEELRKIQEQLQMVHGQGLQMFLQQSNPGLNFGSVQLSSGNSSNIQQL
APINMQGQVPTNLIQSGMNTGHIGTTQHMIQQQLTQSTSTQSQQNVLSGHSQQTSLPSQTQSTLT
APLYNTMVISQPAAGSMVQIPSSMPQNSTQSAAVTFTQDRQIRFSQGGQLVTKLVTAPVACGAV
MVPSTMLMGQVVTAYPTFATQQQQSQTLSTVTTQQQQQQSSQEQLTSVQQPSQAQLTQPPQQFL
QTSRLLHGNPSTQLILSAAFPLQQSTFPQSHHQHQSSQQQQQLSRHRTDSLDPDSKVQPQ

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

119.5

Interspecies Antigen Sequence

Mouse (94); Rat (92)

Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — CLOCK

Entrez GeneID	9575
GeneBank Accession#	EU446690.1
Protein Accession#	ABZ92219.1
Gene Name	CLOCK
Gene Alias	KAT13D, KIAA0334, bHLHe8
Gene Description	clock homolog (mouse)
Omim ID	601851
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a protein that belongs to the basic helix-loop-helix (bHLH) family of transcription factors. Polymorphisms within the encoded protein have been associated with circadian rhythm sleep disorders. A similar protein in mice is a circadian regulator that acts as a transcription factor and forms a heterodimer with aryl hydrocarbon receptor nuclear translocator-like to activate transcription of mouse period 1. [provided by RefSeq]

Other Designations

OTTHUMP00000128334|circadian locomoter output cycles kaput protein|clock

Pathway

- [Circadian rhythm - mammal](#)

Disease

- [Alcoholism](#)
- [Anorexia Nervosa](#)
- [Arousal](#)
- [Attention Deficit Disorder with Hyperactivity](#)
- [Autistic Disorder](#)
- [Bipolar Disorder](#)
- [Body Weight](#)
- [Breast cancer](#)
- [Bulimia Nervosa](#)
- [Carcinoma](#)
- [Cardiovascular Diseases](#)
- [Choice Behavior](#)
- [Chronobiology Disorders](#)
- [Cluster Headache](#)
- [Cocaine-Related Disorders](#)
- [Decision Making](#)
- [Depressive Disorder](#)
- [Diabetes Mellitus](#)
- [Disease Models](#)
- [Disorders of Excessive Somnolence](#)

- [Edema](#)
- [Endometriosis](#)
- [Esophageal Neoplasms](#)
- [Fatty Liver](#)
- [Genetic Predisposition to Disease](#)
- [Insulin Resistance](#)
- [Interview](#)
- [Metabolic Syndrome X](#)
- [Mood Disorders](#)
- [Neuropsychological Tests](#)
- [Obesity](#)
- [Overweight](#)
- [Paranoid Disorders](#)
- [Personality Assessment](#)
- [Prostatic Neoplasms](#)
- [Psychiatric Status Rating Scales](#)
- [Psychotic Disorders](#)
- [Recurrence](#)
- [Schizophrenia](#)
- [Seasonal Affective Disorder](#)
- [Sleep](#)
- [Sleep Disorders](#)
- [Sleep Initiation and Maintenance Disorders](#)
- [Thinness](#)
- [Time Perception](#)
- [Weight Gain](#)

- [Weight Loss](#)