Recombinant Human CRY2, MYC/DDK-tagged

Cat. No. CRY2-1159H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CRY2, transcript variant 1, fused with C-terminal MYC/DDK, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes a flavin adenine dinucleotide-binding protein that is a key component of the circadian core oscillator complex, which regulates the circadian clock. This gene is upregulated by CLOCK/ARNTL heterodimers but then represses this upregulation in a feedback loop using PER/CRY heterodimers to interact with CLOCK/ARNTL. Polymorphisms in this gene have been associated with altered sleep patterns. The encoded protein is widely conserved across plants and animals. Two transcript variants encoding different isoforms have been found for this gene.
Molecular Mass	66.8 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration	>50 ug/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Gene Name	CRY2 cryptochrome circadian clock 2 [Homo sapiens (human)]
Official Symbol	CRY2
Synonyms	CRY2; cryptochrome 2 (photolyase-like); cryptochrome-2; growth-inhibiting protein 37; HCRY2; PHLL2; FLJ10332; KIAA0658; cryptochrome circadian clock 2
Gene ID	1408
mRNA Refseq	NM_021117
Protein Refseq	NP_066940
MIM	603732
UniProt ID	Q49AN0
Chromosome Location	11p11.2
Pathway	BMAL1:CLOCK,NPAS2 activates circadian gene expression; Circadian Clock; Circadian rhythm; Diurnally regulated genes with circadian orthologs
Function	NOT DNA (6-4) photolyase activity; DNA binding; blue light photoreceptor activity

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