

## Recombinant Human CRY2, MYC/DDK-tagged

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

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human CRY2, transcript variant 1, fused with C-terminal MYC/DDK, was expressed in HEK293 cells.
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>Description</b>	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.
<b>Molecular Mass</b>	66.8 kDa
<b>Purity</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Concentration</b>	>50 ug/mL as determined by microplate BCA method
<b>Storage Buffer</b>	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

### GENE INFORMATION

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

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