

Recombinant Full Length Human CRY2 Protein, GST-tagged

Cat. No. CRY2-2126HF Lot. No. (See product label)

SPECIFICATION

Product Overview	Human CRY2 full-length ORF (NP_066940.1, 1 a.a. - 593 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	593 amino acids
Description	<p>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. [provided by RefSeq, Feb 2014]</p>
Molecular Mass	93.3 kDa
AA Sequence	<p>MAATVATAAAVAPAPAPGTDSASSVHWFRKGLRLHDNPALLAAVARGARCVRCVYIL DPWFAASSSVGINRWRFLQSLLEDLDTSLRKLNSRLFVVRGQPADVFPRLFKEWGV TRLTFEYDSEPFGERDAAIMKMAKEAGVEVVTENSHTLYDLDRIIELNGQKPLTYK RFQAIISRMELPKKPVGLVTSQQMESCRAEIQENHDETYGVPSLEELGFPTEGLGPA VWQGGETEALARLDKHLERKAWVANYERPRMNANSLLASPTGLSPYLRFGCLSCR</p>

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LFYYRLWDLYKKVKRNSTPPLSLFGQLLWREFFYTAATNNPRFDRMEGNPICIQIPW
 DRNPEALAKWAEGKTGFPWIDAIMTQLRQEGWIHHLARHAVACFLTRGDLWVSWE
 SGVRVFDLLLLDADFSVNAGSMMWLSCSAFFQQFFHCYCPVGFGRRTDPSGDYIR
 RYLPKLFKAFPSRYIYEPWNAPESIQKAAKCIIGVDYPRPIVNHAEISRNLNIERMKQIQ
 QLSRYRGLCLLASVPSCVEDLSHPVAEPSSSQAGSMSSAGPRPLPSGPASPKRLE
 AAEEPPGEELSKRARVAELPTPELPSKDA

Applications	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name	CRY2 cryptochrome 2 (photolyase-like) [Homo sapiens]
Official Symbol	CRY2
Synonyms	CRY2; cryptochrome 2 (photolyase-like); cryptochrome-2; growth-inhibiting protein 37; HCRY2; PHLL2; FLJ10332; KIAA0658
Gene ID	1408
mRNA Refseq	NM_001127457



Protein Refseq NP_001120929

MIM 603732

UniProt ID Q49AN0

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