

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	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]
Molecular Mass	93.3 kDa
AA Sequence	MAATVATAAAVAPAPAPGTDSSSVHWFRKGLRLHDNPALLAAVRGARCVRVCVYIL DPWFAASSSVGINRWRFLQSLDLTSLRKLNSRLFVVRGQPADVFPRLFKEWGV TRLTFEYDSEPFGERDAAIMKMAKEAGVEVVTENSHTLYDLDRIIELNGQKPLTYK RFQAIISRMELPKKPVGLVTSQQMESCR AEIQENHDETYGVPSLEELGFPTEGLGPA VWQGGETEALARLDKHLERKAWVANYERPRMNANSLLASPTGLSPYLRFGCLSCR

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LFYYRLWDLYKKVKRNSTPPLSLFGQLLWREFFYTAATNNPRFDRMEGNPICIQIPW
 DRNPEALAKWAEGKTGFPWIDAIMTQLRQEGWIHHLARHAVACFLTRGDLWVSWE
 SGVRVFDLLLLDADFSVNAGSWMWLSCSAFFQQFFHCYCPVGFGRRTDPSGDYIR
 RYLPKLKAFPSRYIYEPWNAPESIQKAAKCIIGVDYPRPIVNAETSRLNIERMKQIQ
 QLSRYRGLCLLASVPSCVEDLSHPVAEPSSSQAGSMSSAGPRPLPSGPASPKRKLE
 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

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Protein Refseq	NP_001120929
MIM	603732
UniProt ID	Q49AN0

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