Recombinant Mouse Cry2 Protein, Myc/DDK-tagged

Cat. No. Cry2-2324M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length cryptochrome 2 (photolyase-like) (cDNA clone MGC:65642 IMAGE:6834104), complete cds, with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
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.
Molecular Mass	66.9 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 μg/mL as determined by microplate BCA method

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Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Cry2 cryptochrome 2 (photolyase-like) [Mus musculus (house mouse)]
Official Symbol	Cry2
Synonyms	Cry2; cryptochrome 2 (photolyase-like); AV006279; D130054K12Rik; cryptochrome-2
Gene ID	12953
mRNA Refseq	NM_009963
Protein Refseq	NP_034093
UniProt ID	Q9R194

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