

## Recombinant Mouse Cry1 Protein, Myc/DDK-tagged

**Cat. No.** Cry1-2323M    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Purified recombinant protein of mouse full-length cryptochrome 1 (photolyase-like) (Cry1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
<b>Species</b>	Mouse
<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. Loss of this gene results in a shortened circadian cycle in complete darkness.
<b>Molecular Mass</b>	68.5 kDa
<b>Purity</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Stability</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>Storage</b>	Store at -80 centigrade after receiving vials.
<b>Concentration</b>	>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** Cry1 cryptochrome 1 (photolyase-like) [ *Mus musculus* (house mouse) ]

**Official Symbol** Cry1

**Synonyms** Cry1; cryptochrome 1 (photolyase-like); Ph; Phl1; AU020726; AU021000; cryptochrome-1

**Gene ID** 12952

**mRNA Refseq** NM\_007771

**Protein Refseq** NP\_031797

**UniProt ID** P97784

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