

## Product datasheet for TP525732

### Cry1 (NM\_007771) Mouse Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse cryptochrome 1 (photolyase-like) (Cry1), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR225732 representing NM_007771 Red=Cloning site Green=Tags(s)

MGVNAVHWFRKGLRLHDNPALKECIQGADTIRCYVYILDPWFAGSSNVGINRWRFLQCLELDANLRKLN  
SRLFVIRGQPADVFPRLFKEWNITKLSIEYDSEPFGERDAAIKKLATEAGVEVIVRISHTLYDLDKIIE  
LNGGQPPLTYKRFQTLVSKMEPLEMPADTITSDVIGKCMTPLSDDHDEKYGVPSLEELGFDTDGLSSAVW  
PGGETEALTRLERHLERKAWVANFERPRMNANSLASPTGLSPYLRFGCLSCRLFYFKLTDLYKKVKKNS  
SPPLSLYGQLLWREFFYTAATNNPRFDKMEGNPICVQIPWDKNPEALAKWAEGRGTFPWIDAIMTQLRQE  
GWIHHLARHAVACFLTRGDLWISWEEGMKVFEELLDADWSINAGSWMWLSCSSFFQFFHCYCPVGFGR  
RTDPNGDYIRRYLPVLRGFPKAYIYDPWNAPEGIQKVAKCLIGVNYPKPMVNHAEASRLNIERMKQIYQQ  
LSRYRGLGLLASVPSNSNGNGGLMGYAPGENVPCSSSNGGLMGYAPGENVPCSSGNGCSQGSGILHYA  
HGDSQQTHSLKQGRSSAGTGLSSGKRPSQEEDAQSVGPKVQRQSSN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-MYC/DDK
Predicted MW:	68.5 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C after receiving vials.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.



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RefSeq: [NP\\_031797](#)

Locus ID: 12952

UniProt ID: [P97784](#)

RefSeq Size: 3035

Cytogenetics: 10 41.63 cM

RefSeq ORF: 1818

Synonyms: AU020726; AU021000; Phl1

**Summary:** 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. [provided by RefSeq, Feb 2014]