

Product datasheet for **MG225732**

Cry1 (NM_007771) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Cry1 (NM_007771) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Cry1
Synonyms: AU020726; AU021000; PhI1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
Restriction Sites: SgfI-MluI
Cloning Scheme:

Cloning sites used for ORF Shuttling:



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CTATAGGGCGGCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCCGCGATCGCCGCGCCAGATCT

Restriction sites: EcoR I, BamH I, Kpn I, RBS, Kozac Consensus, Sgf I, Asc I

CAAGCTTAACTAGCTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC --- --- ---

T R T R P L E M E S D - - -

Restriction sites: Hind III, Nhe I, Rsr II, Mlu I, Not I, Xho I, GFP Tag

--- GAA GAA AGA GTT TAA ACGGCCGCCCGGAGCT

- - E E R V stop

Restriction sites: Pme I, Fse I

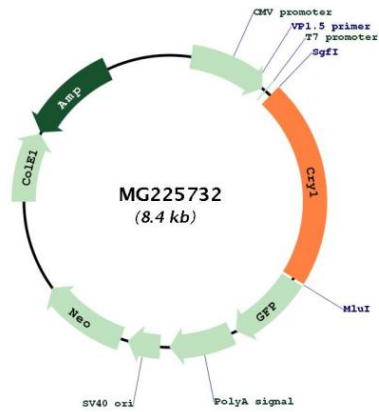
ACCN: NM_007771
ORF Size: 1818 bp



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OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NM_007771.3 , NP_031797.1
RefSeq Size:	3035 bp
RefSeq ORF:	1821 bp
Locus ID:	12952
UniProt ID:	P97784
Cytogenetics:	10 41.63 cM
Gene 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]

Product images:



Circular map for MG225732