

## Product datasheet for **MC219605**

### **Cry1 (NM\_007771) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Cry1 (NM_007771) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cry1
Synonyms:	AU020726; AU021000; Phl11
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_007771, the custom clone sequence may differ by one or more nucleotides

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ATGGGGGTGAACGCCGTGCACTGGTTCGAAAGGGACTCCGGCTCCACGACAACCCCGCCCTGAAGGAGT
GCATCCAGGGCGCCGACACCATCCGCTGCGTCTATATCCTCGACCCTGGTTCGCCGGCTCTTCCAACGT
GGGCATCAACAGGTGGCGATTTTGGCTCAGTGTCTTGAGGATCTTGATGCCAATCTACGAAAATTAAT
TCTCGTCTGTTTGTGATTCGGGGACAGCCAGCTGATGTATTTCCAGGCTTTTCAAGGAATGGAACATCA
CTAAACTCTCAATTGAGTATGATTCTGAGCCTTTTGGGAAGGAACGAGATGCAGCTATCAAGAAGCTGGC
TACTGAGGCTGGCGTGGAAAGTCATCGTGCCATTTACATACACTGTATGACCTGGACAAGATCATAGAA
CTCAATGGCGGACAGCCACCTCTAACATATAAAAGGTTTCAGACTCTCGTCAGCAAGATGGAGCCACTGG
AGATGCCAGCAGACACCATCACATCAGATGTGATAGGAAAGTGCATGACCCCTCTGTCTGATGACCATGA
TGAAAAATATGGCGTTCCTTCCCTGGAAGAGCTCGGCTTGATACAGATGGCCTGTCTCTGCAGTGTGG
CCAGGAGGAGAACTGAGGCACTTACACGTTTGGAAAGGCATTTGGAAAGAAAGGCTGGGTGGCAAACT
TTGAACGACCTCGAATGAATGCAAACCTCCCTGCTTGAAGCCAACTGGACTCAGTCCTTATCTCCGCTT
TGGTTGTTTATCATGTCCGCTGTTTTATTTCAAACCTAACAGATCTCTACAAAAAGGTAAAGAAGAATAGT
TCCCTCCCTTTCTCTTATAGGCAACTCCTGTGGCGTGAATTTTTTATACAGCAGCCACAAACAACC
CACGCTTTGACAAAATGGAAGGGAACCCCATCTGTGTTGAGATCCCTGGGACAAGAACCCCGAGGCTCT
GGCCAAATGGGCAGAAGGCCGACAGGCTTCCCGTGGATTGACGCCATCATGACTCAGCTTCGTCAGGAG
GGCTGGATCCACCATTTAGCCAGACACGCGGTTGCCTGTTTCTGACTCGTGGTGACCTGTGGATCAGCT
GGGAAGAAGGGATGAAGGTCTTTGAAGAGTTACTGCTTGATGCAGATTGGAGCATAAATGCTGGAAGTTG
GATGTGGCTGTCCTGCAGTTCCTTTTTTCAGCAATTTTTTCACTGCTACTGCCCTGTGGTTTTGGTAGG
AGGACAGATCCCAATGGAGACTATATTAGGCGTTATTTACCTGTCTAAGAGGCTTCCCTGCAAAAATATA
TCTACGATCCTTGAATGCACCAGAAGGCATCCAGAAGGTTGCCAAGTGTGATAGGAGTTAATTACCC
CAAACCGATGGTGAACCATGCTGAGGCAAGCAGACTGAATATTGAAGAATGAAGCAGATCTATCAGCAG
CTTTCCCGGTACAGAGGGCTAGGTCTTCTCGCCTCGGTCCTTCTAACTAATGGGAATGGAGGGCTCA
TGGGCTATGCTCCTGGAGAGAATGTCCCGAGTTGTAGCAGCAGCGGGAATGGAGGGCTCATGGGCTATGC
TCCTGGAGAGAACGTCCCGAGCTGTAGCGGTGGAAATTGCTCTCAAGGAAGTGGTATTTTACACTATGCT
CACGGGGACAGTCAGCAGACTCACTCAAGCAAGGGAGAAGCTCCGCGGGCACCGGCTCAGCAGTG
GGAAGCGTCTAGTCAGGAAGAGGATGCCAGAGTGTCCGCCCCAAAGTCCAGCGGCAGAGCAGTAAGTGA
A
    
```

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja2607\\_e06.zip](https://cdn.origene.com/chromatograms/ja2607_e06.zip)

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_007771

**Insert Size:** 1821 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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:**

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]