

Product datasheet for **RN214434**

Cry1 (NM_198750) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cry1 (NM_198750) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Cry1
Synonyms:	MGC124541
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN214434 representing NM_198750
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGGGTGAACGCCGTGCATTGGTTCCGAAAGGGACTCCGGCTGCACGACAACCCGCCCTGAAGGAGT
 GCATCCAGGGCGCGACACCATCCGCTGCGTGTACATCCTCGACCCTGGTTCGCCGGCTCTTCCAACGT
 GGGCATCAACAGGTGGCGATTTTGGCTTCACTGCTTGGAGACCTTATGATGCAATCTACGAAAGTTAAAT
 TCTCGCTGTTTGTGATCCGGGGACAGCCAGCTGACGTGTTTCCGAGGCTTTTCAAGGAATGGAATATTA
 CTAACATTTCAATTGAGTACGATTCTGAGCCTTTTGGGAAGAACGAGATGCGGCCATCAAGAAGCTGGC
 CACTGAGGCTGGTGTGGAAGTCACTGTCGCATTTACACACACTGTATGACCTAGACAAGATCATAGAA
 CTAATGGTGGGACGCCACCCCTAACATACAAAAGGTTTTCAGACTCTCGTCAGCAAAATGGAGCCCTGG
 AGATGCCAGCAGACACCATCACATCAGACGTGATAGGGAAGTGCACAACCCCTCTGTCCGACGACCATGA
 TGAGAAGTACGGAGTTCCTTCCCTGGAGGAGCTCGGTTTTGATACCGATGGCTTGTCTCTCGGGTGTGG
 CCAGGAGGAGAACTGAGGCACTTACACGTTTGGAAAGGCATTTGGAAAGAAAGGCTGGGTGGCAAAT
 TTGAAAGACCTCGAATGAATGCAAACCTCCCTGCTCGCAAGCCCAACTGGACTGAGTCCTTATCTCCGCTT
 CGGTTGTTTGTGATGTCGGCTATTTTATTTCAAACCTAACAGATCTCTACAAAAGGTAAGAAAAATAGT
 TCCCTCCCTTTCTCTTTATGGGCAACTCCTGTGGCGTGAATTTTTTTATACAGCAGCCACAAACAACC
 CACGCTTTGACAAAAATGGAAGGGAAACCCCATCTGTGTTCAAATCCCTGGGACAAGAATCCCGAGGCTCT
 GGCCAAATGGGCAGAAGGCCGGACAGGCTTTCCGTGGATTGACGCCATCATGACACAGCTTCGTGAGGAG
 GGCTGGATCCACCATCTAGCCCGACATGCAGTTGCCTGTTTCTGACCCGCGCGACCTATGGATCAGTT
 GGAAGAAGGGATGAAGGTCTTTGAAGAATTACTGCTTGACCCGACTGGAGCATCAATGCTGGGAGTTG
 GATGTGGCTGTCCTGCAGTTCCTTTTTTCCAACAGTTTTTCCACTGCTACTGCCCTGTTGGTTTTGTTAGG
 AGGACAGACCCCAATGGAGACTATATTAGCGTATTGCTGCTTAAGAGGCTTCCCTGCAAAAATATA
 TCTACGATCCTTGAATGCACCAGAAGGTATCCAGAAGGTAGCCAAATGTTTGTAGGCGTTAATTATCC
 CAAACCAATGGTGAACCATGCCGAGGCAAGTCGACTGAATATTGAAAGAATGAAGCAGATCTATCAGCAG
 CTCTCCCGCTACAGAGGGCTAGGCTCCTTGCCTCAGTCCCTTCTAATCCTAATGGGAACGGAGGGCTCA
 TGGGCTATGCTCCTGGAGAGAATGTCCCAGCGGTGGCAGTGGTGGCGGAACTGCTCTCAAGGAAGTGG
 TATTTTACACTATGCTCACGGAGACAGTCAGCAAACTAACCCACTAAAGCAAGGAAGAAGCTCCATGGGC
 ACTGGCCTCAGCAGCGGGAAGCGCCCAAGTCAGGAAGAGGACGCACAGAGTGTGGCCCCAAAGTCCAGC
 GACAGAGCAGTA**ACTGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_198750
- Insert Size:** 1767 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_198750.2](#), [NP_942045.2](#)

RefSeq Size: 2938 bp

RefSeq ORF: 1767 bp

Locus ID: 299691

UniProt ID: [Q32Q86](#)

Cytogenetics: 7q13

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 the related gene in mouse results in a shortened circadian cycle in complete darkness. [provided by RefSeq, Feb 2014]