

Product datasheet for **MC219379**

Cry2 (NM_001113333) Mouse Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | Cry2 (NM_001113333) Mouse Untagged Clone |
| Tag: | Tag Free |
| Symbol: | Cry2 |
| Synonyms: | AV006279; D130054K12Rik |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Cell Selection: | Neomycin |



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Fully Sequenced ORF: >MC219379 representing NM_001113333
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGCGGCTGCTGTGGTGGCAGCGACGGTCCCGCGCAATCGATGGGCGCGGACGGCGCGTCTCTCGG
 TGCACTGGTTCGCAAAGGACTACGGCTCCACGACAACCCGCGCTGCTAGCTGCCGTGCGCGGGCGCGG
 CTGTGTGCGCTGCGTCTACATCCTCGACCCGTGGTTCGCGGCTCCTCGTCTGTGGGCATCAACCGATGG
 AGGTTCTACTGCAATCTCTGGAAGATCTGGACACAAGCTTAAGAAAGCTGAATTCGCGTCTGTTTGTAG
 TCCGGGGACAGCCAGCTGATGTGTTCCCAAGGCTGTTCAAGGAATGGGGGTGACCCGTTTGACCTTTGA
 ATATGACTCTGAACCTTTGGGAAAGAACGGGATGCAGCCATTATGAAGATGGCCAAGGAGGCTGGCGTG
 GAGGTGGTACTGAGAATCTCACACCCTATGACCTAGACAGAATCATCGAATGAATGGGCAGAAAC
 CACCCCTTACCTACAAGCGCTTTCAGGCCCTCATCAGCCGATGGAGCTGCCAAGAAGCCCGCGGTGGC
 TGTGAGCAGCCAGCAGATGGAGAGCTGCAGAGCTGAGATCCAGGAGAACCATGACGACACCTATGGCGTG
 CCTCCCTGGAGGAGCTGGGATTCACCCAGGAAGGACTTGGCCAGCTGTTTGGCAAGGAGGAGAGACAG
 AAGCTCTGGCCCGCTGGACAAGCACTTGAACCGAAGGCTGGGTTGCCAACTATGAGAGACCTCGGAT
 GAATGCCAATTCCTACTGGCCAGCCCCACAGGCTCAGCCCTACCTGCGCTTTGGATGCCTCTCTCTGC
 CGCCTCTTCTACTACCGCTGTGGGACTTGTACAAGAAGTGAAGAGGAACAGCACACCCCCCTCTCTCT
 TATTTGGACAACCTCTGTGGCGAGAATTCTTCTACACAGCGGCCACCAACAACCCAGGTTTGACCGAAT
 GGAGGGGAACCCATCTGCATCCAGATCCCCTGGGACCGCAACCCGAAGCCCTGGCCAAGTGGGCCGAG
 GGCAAGACAGGCTTCCCTGGATTGACGCCATCATGACCAACTGAGGCAGGAGGCTGGATCCACCACC
 TGGCCCGGCACGCTGTGGCTGCTTCTCACCCGCGGGACCTTGGGTCAGCTGGGAGAGCGGGTCCG
 GGTATTTGACGAGCTGCTCCTGGATGCCGATTTCAAGTGTGAATGCAGGCAGCTGGATGTGGCTGTCTGC
 AGTGCTTTCTTCCAACAATTCTTCCACTGCTACTGCCCTGTGGGCTTCGCGCCGACGTACAGACCCAGTG
 GGGACTACATCCGGCGGTACCTGCCAACTGAAAGGCTTCCCCTCTCGATACATCTATGAGCCCTGAA
 TGCCCCGAGTCAGTTCAGAAGGCTGCCAAGTGCATCATTGGCGTGGACTACCCACGGCCCATCGTCAAT
 CATGCAGAGACTAGTCGGCTCAACATTGAACGAATGAAGCAGATCTACCAACAGCTGTCGAGATACCGGG
 GACTCTGTCTATTGGCATCTGTCCCTTCTGTGTGAAGACCTCAGTCACCCTGTGGCAGAGCCTGGTTC
 AAGCCAAGCTGGGAGCATCAGCAACACAGGCCCCAGAGCACTATCCAGTGGCCAGCTTCCCCAAACGC
 AAGCTGGAAGCAGCCGAGGAACCTCCTGGTGAAGAACTGACCAAGCGGGCTAGAGTGACGGAGATGCCTA
 CCAAGAGCCAGCAAGCAAGGACTCCTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN: NM_001113333

Insert Size: 1779 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_001113333.1](#), [NP_001106804.1](#)

RefSeq Size: 2193 bp

RefSeq ORF: 1779 bp

Locus ID: 12953

Cytogenetics: 2 E1

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. [provided by RefSeq, Feb 2014]