

Product datasheet for **MC219380**

Cry2 (NM_009963) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cry2 (NM_009963) 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: >MC219380 representing NM_009963
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCGCGGCTGCTGTGGTGGCAGCGACGGTCCCCGCGCAATCGATGGGCGCGGACGGCGCGTCTCTCGG
TGCACTGGTTCGCAAAGGACTACGGCTCCACGACAACCCGCGCTGCTAGCTGCCGTGCGCGGGCGCG
CTGTGTGCGCTGCGTCTACATCCTCGACCCGTGGTTCGCGGCTCCTCGTCTGTGGGCATCAACCGATGG
AGGTTCTACTGCAATCTCTGGAAGATCTGGACACAAGCTTAAGAAAGCTGAATTCGCGTCTGTTTGTAG
TCCGGGGACAGCCAGCTGATGTGTTCCCAAGGCTGTTCAAGGAATGGGGGTGACCCGTTTGACCTTTGA
ATATGACTCTGAACCTTTGGGAAAGAACGGGATGCAGCCATTATGAAGATGGCCAAGGAGGCTGGCGTG
GAGGTGGTACTGAGAATCTCACACCCTATGACCTAGACAGAATCATCGAATGAATGGGCAGAAAC
CACCCCTTACCTACAAGCGCTTTCAGGCCCTCATCAGCCGATGGAGCTGCCAAGAAGCCCGGTTGGC
TGTGAGCAGCCAGCAGATGGAGAGCTGCAGAGCTGAGATCCAGGAGAACCATGACGACACCTATGGCGTG
CCTTCCCTGGAGGAGCTGGGATTCACCCAGGAAGGACTTGGCCAGCTGTTTGGCAAGGAGGAGAGACAG
AAGCTCTGGCCCGCTGGACAAGCACTTGAACCGAAGGCTGGGTTGCCAACTATGAGAGACCTCGGAT
GAATGCCAATTCCTACTGGCCAGCCCCACAGGCTCAGCCCTACCTGCGCTTTGGATGCCTCTCTCTGC
CGCCTCTTCTACTACCGCTGTGGGACTTGTACAAGAAGTGAAGAGGAACAGCACACCCCCCTCTCTCT
TATTTGGACAACCTCTGTGGCGAGAATTCTTCTACACAGCGGCCACCAACAACCCAGGTTTGACCGAAT
GGAGGGGAACCCATCTGCATCCAGATCCCCTGGGACCGCAACCCGAAGCCCTGGCCAAGTGGGCCGAG
GGCAAGACAGGCTTCCCTTGGATTGACGCCATCATGACCAACTGAGGCAGGAGGCTGGATCCACCACC
TGGCCCGGCAGCTGTGGCTGCTTCTCACCCGCGGGACCTTGGGTCAGCTGGGAGAGCGGGTCCG
GGTATTTGACGAGCTGCTCCTGGATGCCGATTTCAAGTGTGAATGCAGGCAGCTGGATGTGGCTGTCTGC
AGTGCTTTCTTCCAACAATTCTTCCACTGCTACTGCCCTGTGGGCTTCGGCCGACGTACAGACCCAGTG
GGGACTACATCCGGCGGTACCTGCCAACTGAAAGGCTTCCCCTCTCGATACATCTATGAGCCCTGGAA
TGCCCCGAGTCAGTTCAGAAGGCTGCCAAGTGCATCATTGGCGTGGACTACCCACGGCCCATCGTCAAT
CATGCAGAGACTAGTCGGCTCAACATTGAACGAATGAAGCAGATCTACCAACAGCTGTCGAGATACCGGG
GACTCTGTCTATTGGCATCTGTCCCTTCTGTGTGAAGACCTCAGTCACCCTGTGGCAGAGCCTGGTTC
AAGCCAAGCTGGGAGCATCAGCAACACAGGCCCCAGAGCACTATCCAGTGGCCAGCTTCCCCAAACGC
AAGCTGGAAGCAGCCGAGGAACCTCCTGGTGAAGAACTGACCAAGCGGGCTAGAGTGACGGAGATGCCTA
CCCAAGAGCCAGCAAGCAAGGACTCCTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_009963

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_009963.4](#), [NP_034093.1](#)

RefSeq Size: 4019 bp

RefSeq ORF: 1779 bp

Locus ID: 12953

UniProt ID: [Q9R194](#)

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]