

Product datasheet for **MR226866**

Cry2 (NM_009963) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Cry2 (NM_009963) Mouse Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Cry2 |
| Synonyms: | AV006279; D130054K12Rik |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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ORF Nucleotide Sequence:

>MR226866 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCGCGGCTGCTGTGGTGGCAGCGACGGTCCCCGCGCAATCGATGGGCGCGGACGGCGCGTCTCTCGG
 TGCACTGGTTCGCAAAGGACTACGGCTCCACGACAACCCGCGCTGCTAGCTGCCGTGCGCGGGGCGCG
 CTGTGTGCGCTGCGTCTACATCCTCGACCCGTGGTTCGCGGCTCCTCGTCTGTGGGCATCAACCGATGG
 AGGTTCTACTGCAATCTCTGGAAGATCTGGACACAAGCTTAAGAAAGCTGAATTCGCGTCTGTTTGTAG
 TCCGGGGACAGCCAGCTGATGTGTTCCCAAGGCTGTTCAAGGAATGGGGGTGACCCGTTTGACCTTTGA
 ATATGACTCTGAACCTTTGGGAAAGAACGGGATGCAGCCATTATGAAGATGGCCAAGGAGGCTGGCGTG
 GAGGTGGTACTGAGAACTCTCACACCCTATGACCTAGACAGAATCATCGAAGTGAATGGGCAGAAAC
 CACCCCTTACCTACAAGCGCTTTCAGGCCCTCATCAGCCGATGGAGCTGCCAAGAAGCCCGGGTGGC
 TGTGAGCAGCCAGCAGATGGAGAGCTGCAGAGCTGAGATCCAGGAGAACCATGACGACACCTATGGCGTG
 CCTTCCCTGGAGGAGCTGGGATTCACCCAGGAAGGACTTGGCCAGCTGTTTGGCAAGGAGGAGAGACAG
 AAGCTCTGGCCCGCTGGACAAGCACTTGAACCGAAGGCTGGGTTGCCAACTATGAGAGACCTCGGAT
 GAATGCCAATTCCTACTGGCCAGCCCCACAGGCTCAGCCCTACCTGCGCTTTGGATGCCTCTCTCTGC
 CGCCTCTTCTACTACCGCTGTGGGACTTGTACAAGAAGTGAAGAGGAACAGCACACCCCCCTCTCTCT
 TATTTGGACAACCTCTGTGGCGAGAATTCTTCTACACAGCGGCCACCAACAACCCAGGTTTGACCGAAT
 GGAGGGAAACCCATCTGCATCCAGATCCCCTGGGACCGCAACCCGAAGCCCTGGCCAAGTGGGCCGAG
 GGCAAGACAGGCTTCCCTGGATTGACGCCATCATGACCAACTGAGGCAGGAGGGCTGGATCCACCACC
 TGGCCCGGACGCTGTGGCTGCTTCTCACCCGCGGGACCTCTGGGTGAGTGGGAGCGGGGCTCCG
 GGTATTTGACGAGCTGCTCTGGATCCGATTTTCAAGTGTGAATGCAGGCAGCTGGATGTGGCTGTCCTGC
 AGTGCTTTCTTCCAACAATTCTTCCACTGCTACTGCCCTGTGGGCTTCGCGCCGACGTACAGACCCCAAGT
 GGGACTACATCCGGCGGTACCTGCCAACTGAAAGGCTTCCCCTCTCGATACATCTATGAGCCCTGGAA
 TGCCCCGAGTCAGTTCAGAAGGCTGCCAAGTGCATCATTGGCGTGGACTACCCACGGCCCATCGTCAAT
 CATGCAGAGACTAGTCGGCTCAACATTGAACGAATGAAGCAGATCTACCAACAGCTGTCGAGATACCGGG
 GACTCTGTCTATTGGCATCTGTCCCTTCTGTGTGAAGACCTCAGTACCCTGTGGCAGAGCCTGGTTC
 AAGCCAAGCTGGGAGCATCAGCAACACAGGCCCCAGAGCACTATCCAGTGGCCAGCTTCCCCAAACGC
 AAGCTGGAAGCAGCCGAGGAACCTCTGGTGAAGAAGTACCAAGCGGGCTAGAGTGACGGAGATGCCTA
 CCAAGAGCCAGCAAGCAAGGACTCC

ACGCGTACGCGGCGGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR226866 protein sequence
 Red=Cloning site Green=Tags(s)

MAAAVVAATVPAQSMGADGASSVHFRKGLRLHDPALLAAVRGARCVRVYILDWPFAASSSVGINRW
 RFLQLSLEDLDTSLRKLNSRLFVVRGQPADVFPRLFKEWGVTRLTFEYDSEPFGKERDAAIMKMAKEAGV
 EVVTENSHLYDLDRIIELNGQKPLTYKRFQALISRMELPKKPAVAVSSQOMESCRAEIQENHDDTYGV
 PSLEELGFPTGLGPAVWQGGTEALARLDKHLERKAWVANYERPRMNANSLASPTGLSPYLRFGCLSC
 RLFYYRLWDLYKVKRNSTPPLSLFGQLLWREFFYTAATNNPRFDRMEGNPICIQIPWDRNPEALAKWAE
 GKTGFPPWIDAIMTQLRQEGWIHHLARHAVACFLTRGDLWVSWESGVRVFDLLEDADFVNAGSMMWLS
 SAFFQQFFHCYCPVGFGRRTDPSGDYIRRYLPLKKGFPSTRYIYEPWNAPESVQKAAKCIIGVDYPRPIVN
 HAETSRLNIERMKQIYQQLSRYRGLCLLASVPSCVEDLSHPVAEPGSSQAGSISNTGPRALLSSGPASP
 KLEAAEPPGEELTKRARVTEMPTQEPASKDS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

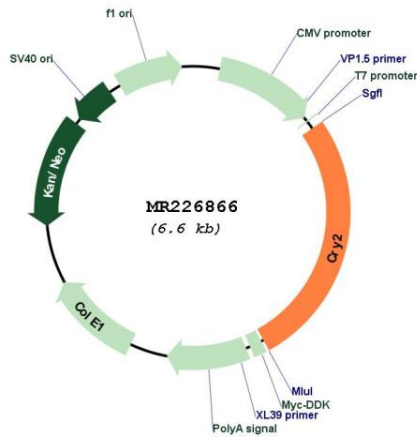
SgfI-MluI

Cytogenetics: 2 E1

MW: 66.9 kDa

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]

Product images:



Circular map for MR226866