

Product datasheet for **MC217695**

Cry2 (BC054794) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cry2 (BC054794) 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



[View online »](#)

Fully Sequenced ORF: >BC054794
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGGCTGCTGTGGTGGCAGCGACGGTCCCCGCGCAATCGATGGGCGCGGACGGCGCTCCTCGG
 TGCACTGGTTCGCAAAGGACTACGGCTCCACGACAACCCGCGCTGCTAGCTGCCGTGCGCGGGCGCG
 CTGTGTGCGCTGCGTCTACATCCTCGACCCGTGGTTCGCGGCTCCTCGTCTGTGGGCATCAACCGATGG
 AGGTTCTACTGCAATCTCTGGAAGATCTGGACACAAGCTTAAGAAAGCTGAATTCGCGTCTGTTTGTAG
 TCCGGGGACAGCCAGCTGATGTGTCCCAAGGCTGTTCAAGGAATGGGGGTGACCCGTTTGACCTTTGA
 ATATGACTCTGAACCTTTGGAAAGAACGGGATGCAGCCATTATGAAGATGGCCAAGGAGGCTGGCGTG
 GAGGTGGTACTGAGAATCTCACACCCTATGACCTAGACAGAATCATCGAATGAATGGGCAGAAAC
 CACCCCTTACCTACAAGCGCTTTCAGGCCCTCATCAGCCGCATGGAGCTGCCAAGAAGCCCGGGTGGC
 TGTGAGCAGCCAGCAGATGGAGAGCTGCAGAGCTGAGATCCAGGAGAACCATGACGACACCTATGGCGTG
 CCTCCCTGGAGGAGCTGGGATTCACCGGAAGGACTTGGCCAGCTGTTTGGCAAGGAGGAGAGACAG
 AAGCTCTGGCCCGCTGGACAAGCACTTGAACCGAAGGCTGGGTTGCCAACTATGAGAGACCTCGGAT
 GAATGCCAATTCCTACTGGCCAGCCCCACAGGCCCTCAGCCCCTACCTGCGCTTTGGATGCCTCCTCGC
 CGCCTCTTCTACTACCGCTGTGGGACTTGTACAAGAAGTGAAGAGGAACAGCACACCCCCCTCCTCT
 TATTTGGACAACCTCTGTGGCGAGAATTCTTCTACACAGCGGCCACCAACAACCCAGGTTTGACCGAAT
 GGAGGGGAACCCATCTGCATCCAGATCCCCTGGGACCGCAACCCGAAGCCCTGGCCAAGTGGCCGAG
 GGCAAGACAGGCTTCCCTGGATTGACGCCATCATGACCAACTGAGGCAGGAGGCTGGATCCACCACC
 TGGCCCGGCAGCTGTGGCTGCTTCTCACCCGCGGGACCTCTGGGTCAGCTGGGAGAGCGGGTCCG
 GGTATTTGACGAGCTGCTCCTGGATGCCGATTCAGTGTGAATGCAGGCAGCTGGATGTGGCTGCTCCTGC
 AGTGCTTTCTTCCAACAATTCTTCCACTGCTACTGCCCTGTGGGCTTCGGCCGACGTACAGACCCAGTG
 GGGACTACATCCGGCGGTACCTGCCAACTGAAAGGCTTCCCCTCTCGATACATCTATGAGCCCTGGAA
 TGCCCCGAGTCAGTTCAGAAGGCTGCCAAGTGCATCATTGGCGTGGACTACCCAGGCCCATCGTCAAT
 CATGCAGAGACTAGTCGGCTCAACATTGAACGAATGAAGCAGATCTACCAACAGCTGTCGAGATACCGGG
 GACTCTGTCTATTGGCATCTGTCCCTTCTGTGTGAAGACCTCAGTACCCTGTGGCAGAGCCTGGTTC
 AAGCCAAGCTGGGAGCATCAGCAACACAGGCCCCAGAGCACTATCCAGTGGCCAGCTTCCCCAAACGC
 AAGCTGGAAGCAGCCGAGGAACCTCCTGGTGAAGAACTGACCAAGCGGGCTAGAGTGACGGAGATGCCTA
 CCAAGAGCCAGCAAGCAAGGACTCCTGA

ACGCGTACGCGGGCGCTCGAGCAGAAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul
ACCN: BC054794
Insert Size: 1779 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

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: [BC054794](#), [AAH54794](#)

RefSeq Size: 3975 bp

RefSeq ORF: 1778 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]