

Product datasheet for **MR209229**

Cry2 (BC054794) Mouse Tagged ORF Clone

Product data:

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

>MR209229 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGCGGCTGCTGTGGTGGCAGCGACGGTCCCCGCGCAATCGATGGGCGCGGACGGCGCGTCTCTCGG
 TGCACTGGTTCGCAAAGGACTACGGCTCCACGACAACCCCGCGCTGCTAGCTGCCGTGCGCGGGGCGCG
 CTGTGTGCGCTGCGTCTACATCCTCGACCCGTGGTTCGCGGCTCCTCGTCTGTGGGCATCAACCGATGG
 AGGTTCTACTGCAATCTCTGGAAGATCTGGACACAAGCTTAAGAAAGCTGAATTCGCGTCTGTTTGTAG
 TCCGGGGACAGCCAGCTGATGTGTTCCCAAGGCTGTTCAAGGAATGGGGGTGACCCGTTTGACCTTTGA
 ATATGACTCTGAACCTTTGGGAAAGAACGGGATGCAGCCATTATGAAGATGGCCAAGGAGGCTGGCGTG
 GAGGTGGTACTGAGAATCTCACACCCTATGACCTAGACAGAATCATCGAATGAATGGGCAGAAAC
 CACCCCTTACCTACAAGCGCTTTCAGGCCCTCATCAGCCGATGGAGCTGCCAAGAAGCCCGGGTGGC
 TGTGAGCAGCCAGCAGATGGAGAGCTGCAGAGCTGAGATCCAGGAGAACCATGACGACACCTATGGCGTG
 CCTTCCCTGGAGGAGCTGGGATTCACCCAGGAAGGACTTGGCCAGCTGTTTGGCAAGGAGGAGAGACAG
 AAGCTCTGGCCCGCTGGACAAGCACTTGAACCGGAAGGCTGGGTTGCCAACTATGAGAGACCTCGGAT
 GAATGCCAATTCCTACTGGCCAGCCCCACAGGCTCAGCCCTACCTGCGCTTTGGATGCCTCTCTCTGC
 CGCCTCTTCTACTACCGCTGTGGGACTTGTACAAGAAGTGAAGAGGAACAGCACACCCCCCTCTCTCT
 TATTTGGACAACCTCTGTGGCGAGAATTCTTCTACACAGCGGCCACCAACAACCCAGGTTTGACCGAAT
 GGAGGGGAACCCATCTGCATCCAGATCCCCTGGGACCGCAACCCGAAGCCCTGGCCAAGTGGGCCGAG
 GGCAAGACAGGCTTCCCTTGGATTGACGCCATCATGACCAACTGAGGCAGGAGGGCTGGATCCACCACC
 TGGCCCGGACGCTGTGGCTGCTTCTCACCCGCGGGACCTTGGGTGAGTGGGAGCGGGGCTCCG
 GGATTTGACGAGCTGCTCTGGATCCGATTTTCAAGTGTGAATGCAGGCAGCTGGATGTGGCTGTCCTGC
 AGTGCTTTCTTCAACAATTCTTCCACTGCTACTGCCCTGTGGGCTTCGCGCCGACGTACAGACCCCAAGT
 GGGACTACATCCGGCGGTACCTGCCAACTGAAAGGCTTCCCCTCTCGATACATCTATGAGCCCTGGAA
 TGCCCCGAGTCAGTTCAGAAGGCTGCCAAGTGCATCATTGGCGTGGACTACCCACGGCCCATCGTCAAT
 CATGCAGAGACTAGTCGGCTCAACATTGAACGAATGAAGCAGATCTACCAACAGCTGTCGAGATACCGGG
 GACTCTGTCTATTGGCATCTGTCCCTTCTGTGTGAAGACCTCAGTACCCTGTGGCAGAGCCTGGTTC
 AAGCCAAGCTGGGAGCATCAGCAACACAGGCCCCAGAGCACTATCCAGTGGCCAGCTTCCCCAAACGC
 AAGCTGGAAGCAGCCGAGGAACCTCTGGTGAAGAAGTACCAAGCGGGCTAGAGTGACGGAGATGCCTA
 CCAAGAGCCAGCAAGCAAGGACTCC

ACGCGTACGCGGCGGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR209229 protein sequence
 Red=Cloning site Green=Tags(s)

MAAAVVAATVPAQSMGADGASSVHFRKGLRLHNDPALLAAVARGARCVRCVYILDWPFAASSSVGINRW
 RFLQLSLEDLDTSLRKLNSRLFVVRGQPADVFPRLFKEWGVTRLTFEYDSEPFGKERDAAIMKMAKEAGV
 EVVTENSHLYDLDRIIELNGQKPLTYKRFQALISRMELPKKPAVAVSSQOMESCRAEIQENHDDTYGV
 PSLEELGFPTGLGPAVWQGGTEALARLDKHLERKAWVANYERPRMNANSLASPTGLSPYLRFGCLSC
 RLFYYRLWDLKVKRNSTPPLSLFGQLLWREFFYTAATNNPRFDRMEGNPICIQIPWDRNPEALAKWAE
 GKTGFPPWIDAIMTQLRQEGWIHHLARHAVACFLTRGDLWVSWESGVRVFDLDDADFSVNAGSMMWLS
 SAFFQQFFHCYCPVGFGRRTDPSGDYIRRYLPLKLGFPSTRYIYEPWNAPEVQKAAKCIIGVDYPRPIVN
 HAETSRLNIERMKQIYQQLSRYRGLCLLASVPSCVEDLSHPVAEPGSSQAGSISNTGPRALLSSGPASP
 KLEAAEPPGEELTKRARVTEMPTQEPASKDS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: BC054794

ORF Size: 1776 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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).

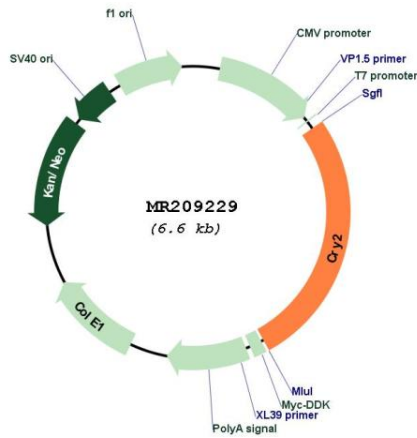
- Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the 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
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 MR209229