

Product datasheet for MC212867

Ciart (NM_001033302) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ciart (NM_001033302) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ciart
Synonyms:	Chrono; Gm129
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC212867 representing NM_001033302 Red=Cloning site Blue=ORF Orange=Stop codon

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATTCTCCATCTAGTGTTCCTTCTTATTCTCCTCCTCCTCCTCCTCCCATCATTTTCCACGTCTCTG
TGAACAGTGACTTTAGCTTCCCTTCTGATAACGAGAGGGAGGGCAAGGGCACCCATGAGCTCAGGCCAGA
CACTGTGGGTGAGAGAGGAGTTCCAGGCCCATCCGCTGCAGACATCGACCCAGGGTT
TCTAGTAACCAACATACAGCACCTCATCTGGAACAGCAAGGATCTGAAGTCAAGAGATCAAGAGACGGT
AACAGGAGACGAGTCTGAACACCAAGGATGTACTACAGAGGGAGATCTGCTCTTTGCTCAAAAGTGTA
AGAACTCCAAGGGTTCATACGGCCCTCACAGACCTACTGAACGGACTCAAGATGGGTGCTTTGACAGA
GGATTAAGTAGCTTCCAACAGAGTGTGGCCATGGACCGGATCCAGCGCATAGTGGGTGTTTTACAGAAGC
CTCAGATGGGAGAACGTTATCTAGGAACCTTGCTGCAGGTGGAAGGGATGTTAAAGACTTGGTTTCTCA
CATAGTGCCCGAAGTCATCCTCAGGAGGTAGCCGGCACCAGATAAGCAAGCACTTTCCAGCCACCAC
GGTGACCCCGGGCTGCTTCTCCTGCACCTCTCCTAGAGAAGATGGGCCAAACACAGCTGGGACATTTAG
TTTTGAAACCAAGCAGCCTTGGCATCTCACTGGATGGCCAGCTATGAACCTCACCTGGATTCATAGCAC
TCCAATTTGTAACCCCTCCCTCAGCTCCCAAGGCTCCGCTCTGGCCACAGCCCCATAGGCACTGGAGCC
AGCATTGGTGTCTCTTGTCTCCAGAAAGGAGGACAGCCCTTACCCATTCTGCCCGGGCACTCCGG
TCCCACCAACTCCACTGTCTCCTGTGTCCTGGTGATCTGAAGAACTGCCTGGCGAGGAGCCTCGTTG
CCACAGTTTGCCAGTAACACTGCCATCAGACTGGAGTTGCATCCTATGTCCGCCTGTCTGCCTACCACA
GACAGAGAGATGACTAAAGGACACCCAGAGCCACAGATGACTAGCCATCCCCAGTTGCTCCGGATCCTC
AGCC**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA


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Restriction Sites:	Sgfl-Mlul
ACCN:	NM_001033302
Insert Size:	1128 bp
OTI Disclaimer:	<p>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.</p> <p>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</p>
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:	<ol style="list-style-type: none"> 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_001033302.2, NP_001028474.1</u>
RefSeq Size:	1395 bp
RefSeq ORF:	1128 bp
Locus ID:	229599
UniProt ID:	<u>Q3TQ03</u>
Cytogenetics:	3 F2.1

Gene Summary:

Transcriptional repressor which forms a negative regulatory component of the circadian clock and acts independently of the circadian transcriptional repressors: CRY1, CRY2 and BHLHE41. In a histone deacetylase-dependent manner represses the transcriptional activator activity of the CLOCK-ARNTL/BMAL1 heterodimer. Abrogates the interaction of ARNTL/BMAL1 with the transcriptional coactivator CREBBP and can repress the histone acetyl-transferase activity of the CLOCK-ARNTL/BMAL1 heterodimer, reducing histone acetylation of its target genes. Rhythmically binds the E-box elements (5'-CACGTG-3') on circadian gene promoters and its occupancy shows circadian oscillation antiphasic to ARNTL/BMAL1. Interacts with the glucocorticoid receptor (NR3C1) and contributes to the repressive function in the glucocorticoid response.[UniProtKB/Swiss-Prot Function]