

Product datasheet for MC208232

Noct (NM_009834) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Noct (NM_009834) Mouse Untagged Clone
 Tag: Tag Free
 Symbol: Noct
 Synonyms: AU043840; Ccr4; Ccrn4l
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 Cell Selection: Neomycin
 Fully Sequenced ORF: >MC208232 representing NM_009834
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTATCAGAGCCCGGGCGGCTCTGCTCGGCCCTGCTGCTCAGGGACGCCCCGGCCTGCGCCGACAC
 TCGTGCCCGCCCGCGCCGAACGCTCGCCCCGGTGTCTGGATCTCGCCCAAGTCCCCGCAACTGCA
 GCGGGCGGGCCCTCGGGCGCCGAGGTGCGTCCCCGAACAGTGAGTCCATGGGAAACGGCACCAGT
 CGACTCTACAGTCTCTCGCAAGACCGTCAACAGCAGTGCAGCTGCTCAGCACCCGGAGTACTTGGTGT
 CAACTGACCCCGAACATCTGGAGCCATCGATCCTAAGGAACTTCTGGAGGAATGCAGGGCTGTTCTGCA
 CACTCGGCCACCCCGCTACCAGCGGGATTTTGTGGACCTGAGGACAGATTGCTCCAGCAGCCACTCTCC
 ATTCGCGTCATGCAGTGGAAATCCTCGCCCAAGCTCTCGGAGAAGGCAAGACAACCTTTGTGCAGTGCC
 CCGTGGAAAGCGCTCAAATGGGAAGAGAGGAAGTGCCTGATCCTGGAGGAGATCCTGGCTTACCAGCCAGA
 CATACTGTGCCTCAGGAAGTGGACCACTTTGACACCTTCCAGCCACTCCTCAGTAGACTGGGCTAC
 CAAGGCACGTTTTTCCCCAAGCCCTGGTACCATGTCTAGATGTGGAACACAACAACGGTCCAGATGGCT
 GTGCCTTATTTTTCTCCAAAACCGATTCAAGCTTATCAGCAGCACCAATATTAGGCTGACGCCATGAC
 CCTAAAAACCAATCAGGTGGCCATCGCACAGACCCTGGAGTGCAAGGAGTCTGGGCGACAGTCTGCATT
 GCTGTACCCCACTTAAAAGCCCGCACTGGCTGGGAGCGTTCCGGTCAGCTCAGGGCTGTGACCTCCTCC
 AGAACCTGCAGAACATCACCCAGGGAGCAAAGATCCCCCTGATCGTCTGCGGGGACTTCAACGCAGAGCC
 AACCGAAGAGGTCTACAAACACTTTGCGTCTCCAGCCTCAACCTCAACAGCGCCTACAAGCTGTGAGT
 CCCGATGGACAGTCGGAGCCTCCTACACAACCTGGAAGATCCGGACCTCAGGCGAGTGTGCCACACGC
 TGGACTATCTGGTACTCCAGACATGCTCTGAGTGTACGTCCGCCCTGGATCTACTACTGAAGAAC
 GATTGGGCCCAACCGGCTCCCATCCTTCCATTACCCTCGGACCCTGTCCCTGGTGTGTGACTTCAGC
 TTTAACGAGGAGCCCATGAGCTCTTT**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Restriction Sites:	Sgfl-Mlul
ACCN:	NM_009834
Insert Size:	1290 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:	<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.
RefSeq:	NM_009834.2 , NP_033964.1
RefSeq Size:	3069 bp
RefSeq ORF:	1290 bp
Locus ID:	12457
UniProt ID:	O35710
Cytogenetics:	3 C
Gene Summary:	Represses translation and promotes degradation of target mRNA molecules (By similarity). Plays an important role in post-transcriptional regulation of metabolic genes under circadian control (PubMed:20685873, PubMed:20498072). May have low deadenylase activity and may degrade the poly(A) tails of specific target mRNAs, leading to their degradation and suppression of translation (PubMed:17400819). Exerts a rhythmic post-transcriptional control of genes necessary for metabolic functions including nutrient absorption, glucose/insulin sensitivity, lipid metabolism, adipogenesis, inflammation and osteogenesis (PubMed:20498072, PubMed:22082366, PubMed:21820310, PubMed:22073225, PubMed:22331129). Plays an important role in favoring adipogenesis over osteoblastogenesis and acts as a key regulator of the adipogenesis/osteogenesis balance (PubMed:20498072, PubMed:22082366). Promotes adipogenesis by activating PPARG transcriptional activity in a deadenylase-independent manner by facilitating its nuclear translocation (PubMed:20498072). Regulates circadian expression of NOS2 in the liver and negatively regulates the circadian expression of IGF1 in the bone (PubMed:22073225, PubMed:20685873). Critical for proper development of early embryos (PubMed:23449310). [UniProtKB/Swiss-Prot Function]