

Product datasheet for **MC205396**

Arntl (NM_007489) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Arntl (NM_007489) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Arntl
Synonyms:	Arnt3; bHLHe5; Bmal1; BMAL1b; bmal1b'; MOP3
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC025973
 CCACGCGTCCGGAAGAAGTTGACTGCCTGGAAGGAAGTTACAAAACATGAAAGTCACTTTGGGGTGACCA
 GCAACTACAGTGGCCCTTTGCATCTCCACACTGGATCGAAGCTTAAGAACTGTAACCTCAGATGTGGGA
 ATTTGGGCCAGAGGGTGGGAGTGACAGCCCCAGTCAAATCCTGTGGACCTTTGAGCCCTTTGAGGCCCA
 CTGGGCAACCCCTCTTACCAGGGTTTGAAGTTAGAGTCCCTTGAAGCACCTTCTTCCAATGGCGGAC
 CAGAGAATGGACATTTCTCAACCATCAGCGACTTCATGTCTCCGGGCCCCACCGACCTACTCTCCGGTT
 CCCTGGCACCAGTGGTGTGGACTGCAATCGCAAGAGGAAGGCAGTGCCACTGACTACCAAGAAAGTAT
 GGACACAGACAAAAGATGACCCTCATGGAAGGTTAGAATATGCAGAACACCAAGGAAGGATCAAGAAATGCA
 AGGGAGGCCACAGTCAGATTGAAAAGAGGCGTCGGGACAAAATGAACAGTTTCATTGATGAATTGGCTT
 CTTTGGTACCAACATGCAATGCAATGTCCAGGAAGTTAGATAAACTCACCGTGCTAAGGATGGCTGTTCA
 GCACATGAAAACCTTTGAGAGGTGCCACCAACCCATACACAGAAGCAAACTACAAGCCAACATTTCTATCA
 GATGACGAACTGAAACACCTAATTCTCAGGGCAGCAGATGGATTTTTGTTTGTGCTAGGATGTGACCGAG
 GGAAGATCCTCTTGTCTCCGAGTCTGTCTTCAAGATCCTCAATTATAGCCAGAATGACCTTATTGGCCA
 GAGCTTGTGACTACCTGCATCCAAAAGATATTGCCAAAGTTAAGGAACAGCTATCTTCTCGGACACT
 GCGCCCCGGGAGCGACTATTGATGCCAAGACTGGACTTCGGTTAAAACGGATATAACCCCTGGGCCCT
 CCGGCTATGCTCTGGAGCCCGCCTCTTTCTTCTGTAGAATGAAGTGAACAGGCCTTCAAGTAAAGGT
 GGAAGATAAGGACTTCGCCTCTACCTGTTCAAAGAAAAAGCAGATCGAAAAAGCTTCTGCACAATCCAC
 AGCACAGGCTATTTGAAAAGCTGGCCACCCACGAAGATGGGGCTGGACGAAGACAATGAGCCAGACAACG
 AGGGCTGCAACCTCAGCTGCCTCGTTGCAATCGGGCGCCTGCACTCGCACATGGTTCCACAACCAGCGAA
 CGGGGAAATACGGGTGAAATCTATGGAGTACGTTTCTCGACACGCAATAGATGGGAAATTTGTTTTGTA
 GATCAGAGGGCGACAGCTATTTTGGCGTATCTACCACAGGAACCTCTAGGTACATCATGTTATGAGTATT
 TTCATCAAGACGACATAGGACACCTCGCAGAATGTCACAGGCAAGTTTTACAGACAAGAGAAAAGATCAC
 AACTAATTGCTATAAGTTTAAGATCAAAGATGGTTCTTTTATCACGCTACGAAGTCGATGGTTTCAGTTTC
 ATGAACCCGTGGACCAAGGAAGTTGAATACATTGTCTCAACCAACTGTTGTTTTAGCCAATGTCTCTGG
 AAGCGGGGACCAACCTTCCCGCAGCTAACAGCACCCCCACAGCATGGACAGCATGCTGCCCTCTGG
 AGAAGGTGGCCAAAGAGGACTCATCCACTGTCCAGGCATTCCAGGGGAACCAGAGCCGGAGCAGGA
 AAAATAGGTGCAATGATCGCGGAGGAAATCATGGAAATCCACAGGATAAGAGGGTCATCGCCTTCCAGCT
 GTGGCTCCAGCCCGTGAACATCACAAGTACGCTCCCTCTGATGCTCTTCTCCAGGAGCAAGAAGAT
 TCTAAATGGAGGGACTCCAGACATTCTTCCACTGGACTATTACCAGGGCAGGCTCAGGAGACCCAGGG
 TATCCCTATTCTGATAGTCTTCTATTCTTGGTGAAGACCCACATAGGCATCGATATGATAGATAACG
 ACCAAGGATCAAGTAGTCCAGTAACGATGAGGCAGCAATGGCTGTCATCATGAGCTCTTGAAGCAGA
 TCGGGGGCTGGTGGCCCGTTGACTTTAGTGACTTGCCATGGCCGCTGTAGACACTACATTTGCTTTGG
 CAACAGCTGCAGTATCAAAGTGCAATTAATGGTGAAGTTTTACAGTCTGTGAAGCTTACTGGATAGAGAGA
 GAACAGCTTTTATGACTGACTCCATAAAAGCCACCTCAGAGCCATTGATACAAGTCAATCTACCATGTG
 TAACCTCAGACAAAGTGGAACTAAACCTGCTCCAGTGTTCCTCATATTGAGTTTGGGCTAGCTGTGGA
 TAGCTTGCAATTAATGATATTTTGGATTTTGTGTTGTTGAATTTTTAATCATTGTGCACAGAAGCAT
 CATTGGTAGCTTTTATGCAAAATGGTCATTTAGATGATGGTGTGTTTACTACTACAAAGAAGTCCCC
 CATGTGGATATTTCTATACTAATTGATCATAAAGCTGTTTATCTTCTTGTAAAGAATCCTTTACTAT
 AAATATGGGTAAAGTATAATGTATTAGACAGTTAAATATTTTTAATAAATGTTTCCCTTGTCTATAAA
 AAAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI

ACCN: NM_007489

Insert Size: 1881 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:	<u>BC025973</u> , <u>AAH25973</u>
RefSeq Size:	2677 bp
RefSeq ORF:	1881 bp
Locus ID:	11865
UniProt ID:	<u>Q9WTL8</u>
Cytogenetics:	7 59.17 cM
Gene Summary:	<p>The protein encoded by this gene is a basic helix-loop-helix protein that forms a heterodimer with Clock. This heterodimer binds E-box enhancer elements upstream of Period (Per1, Per2, Per3) and Cryptochrome (Cry1, Cry2) genes and activates transcription of these genes. Per and Cry proteins heterodimerize and repress their own transcription by interacting in a feedback loop with Clock/Arntl complexes. Defects in this gene have been linked to infertility, problems with gluconeogenesis and lipogenesis, and altered sleep patterns. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jan 2014]</p> <p>Transcript Variant: This variant (1) represents the longest variant and encodes the longest isoform (1).</p>