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Product datasheet for MC229380

Per3 (NM_001289877) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Per3 (NM_001289877) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Per3
Synonyms:	2810049O06Rik; mPer3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF:

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>MC229380 representing NM_001289877
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGATCCCTGTGGAGACCCGGCAGTACCTGGTGGCGACTGTCCCCAGACTAGGGGACCGGGGCTCCAGG
GGGCGTCTGGCCAGGAGGGTCCTCTGCAGGGCACTTGCGTGGACAGCAGCCACAGTGAACACGAAGACCG
AAACAGAATGTCTGAAGAGCTTATAATGGTTGTCCAAGAAATGAAAAAGTATTTCCCAGCCGAGAGGCAC
ACTAAGCCCAGTACCCTAGATGCTCTTAACTATGCCCTGCGCTGTGTACACAGTGTGCAAGCAAACAGTG
ACTTTTTCCAGAGTCTCGGTCCACGCGGAGCACACCAGGCAGATGTGACTGTATACAGTCTTGAGGACCT
CACCGCTCTGGCTTCTGAACATACTTCTAAGAACACAGATACCTTCGCGGCCGTGTTTTCGTTTCTGTCT
GGAAGGTTAGTGCACATTTCTGAGCAGGCTGCTTTGATCCTGAATTCTAAGAGGGGTTTCCTCAAGAGCG
TGCACTTTGTCGACCTGCTTGCCCCTCAAGACGTGAGGGCGTTCTACGCGCACACTGCTCCAACTCAGCT
TCCTTTCTGGAACAACTGGACCCAAAGAGCCTCGCAGTATGAATGTGCACCAGCGAAACCCTTTTTCTGC
AGAATCTGTGGAGGTGGAGACAGAGAGAAGAGGCATTACTCCCCATTCCGGATCCTCCCCTATTTGGTTC
ATGTACATAGCTCTGCCCAGCCAGAACCAGAGCCTTGCTGTCTAACACTGGTTGAAAAGATTCACTCTGG
TTACGAAGCTCCTCGAATCCCTGTAGATAAAAGAATTTTTACCACAACACACACTCCAGGATGTGTGTTT
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TAACATACTTGCACCCAGAAGATCGGCCTCTGATGGTTGCCATACACCAAAAAGTTTTAAAGTATGCCGG
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AGCTGGTCCAGCTTTGTCAACCCCTGGAGCCGGAAGGTCTCCTTCATCATTGGTCGACATAAAGTCCGAA
CGAGTCCATTAAATGAAGATGTTTTTGCCACCAGAATAAAAAAGGCAGCCAGTAACGACAAAGACATAGC
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AGCCTGGGCAGCAGCGGCTCACAGGAGCAGCACGTCAGCATCACCTCTTCGAGTGAGTCCAGCGGGCACT
GTCCGGAGGAAGGCCAGCATGAGCAGATGACCCTGCAGCAGGTCTATGCCAGTGTAAACAAAATTAAGAA
TGTGGGCCAACAGCTCTACATCGAGTCCATGGCCAGATCATCAGTGAAGCCAGTGGCAGAGACGTGCGTG
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GAACCGCAGGGTGGTGATGAGCAGAAGGACTTTTCTTCCTCTCAGACACTGAAAAATAAAAGCACCACGG
ATACTGGCTCCGGTGGCAATCTGCAGCAAGAGCAGCCCAGCTCGTCCTATCAGCAGATGAACTGTATCGA
CAGTGTCATCAGGTACCTGACAAGCTACAGCCTCCCGGCCTTGAAAAGAAAGTGCATCTCCTGCACAAAC
ACATCTTCATCCTCAGAAGAAGCCAAGCCAATCCCGGAGGTGGACAGCAGCCAGAGAGACACGGAACAGC
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GTCCACCGCCGCACTGAGCGTGGCGTCTGGCATCAGCCAGTGCAGCTGCAGCAGCACCTCTGGCCACGCT
CCGCCCCTACAGTCAGCAGAAAGTGTTGCCGTGGCGTGTAAGCCGTGGGCCCTGAGAACGAAGGCCTCTC
ACCTGGCTGCAGGAGGATTTAAGCACGTGGGGCTCACAGCAGCTGTCCTCTCTGCACACACACAGAAGGA
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GAGAGCAGAAACCGTGCTCAGTACTCCTGTGTTCAAGCAGGGTCCACTGCTAAGCACAGCAGATGTGCTG
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CCTCTGTCCCCATGTCACAGGACTCCTCCCGGATGAGCAGCACTGGGGCCCATCCGCTAGCCCCTCCCCC
CTCGGCGCAGGCTTAGCATTCCCCTCGGCCCTGGTAGTTCCCAGCCAGACCCCTTATCTCCTCCCCTCTT
TTCCCCTCCAAGATATGGCCTCTCAGGGAGTGGGGGTCTCGGCAGCCTGGGGAGCTGCAGCCGGATGTCC
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CAGGGTCTTCTGAACTGGCACCCTTAGTACCAGCAATGGCTCCAAACCCGGAACCAACCACTTCAGGCCA
CAGCCAAAGGAGAGTGGAGGAGAACTGGGAGGCACACAGTGAAGAGCTTCCGTTCATTAGCTCACGGAGC
AGTTCACCGTTACAGTTAAATTTACTCCAGGAAGAAATGCCTGCGCCGTCAGAGTCCGCAGACGCAGTGA
GAAGAGGCGCTGGGCCAGACGCTAAGCATCACTGTGTTACAGGTCCCAGTGGCAGTAGGAGCCGTCACTG
CACCTCTGGTGAGCTGGCCACGGCAACAGCGCAGCAGGAGTCTGCTGCTGCCTCAGGAAGCAGTGCCAGC
AGTATATACTTCAGTAGCACTGACTATGCTTCTGAAGTCTCTGAAAACAGACAGAGGCCACAGGATAGAC
AGAGAGACGAAGCCCTTCCCGGGGCGGCTGAAGAGTCCATCTGGAGAATGATAGAGCGGACACCAGAGTG
TGTTCTCATGACATACCAGGTGCCCGAGAGGGGTCGAGAGGAGGTGCTGAAGCAGGACCTGGAGAAGCTC
CAGAGCATGGAACAGCAGCAGCCCCTGTTCTCTCCCGCGCAGAGGGAGGAGCTGGCCAAGGTGCGCTCCT
GGATCCACAGCCACACAGCCCCTCAGGAGGGACACCTCCAGAGCTGTGTCGCCTGTGAAGACAGAGGTTC
AGTGGGTGACACTGCAGAGGTCCTGGAACAGCACCCAGCAGAAGACACCAGTTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	SgfI-MluI
ACCN:	NM_001289877
Insert Size:	3345 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).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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).

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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:	NM_001289877.1, NP_001276806.1
RefSeq Size:	5999 bp
RefSeq ORF:	3345 bp
Locus ID:	18628
Cytogenetics:	4 E2
Gene Summary:	This gene is a member of the Period family of genes and is expressed in a circadian pattern in the suprachiasmatic nucleus, the primary circadian pacemaker in the mammalian brain. Genes in this family encode components of the circadian rhythms of locomotor activity, metabolism, and behavior. 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 linked to sleep disorders. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Feb 2014] Transcript Variant: This variant (1) encodes the longest isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.

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