

Product datasheet for MC223613

Per3 (NM_011067) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Per3 (NM_011067) Mouse Untagged Clone
Tag: Tag Free
Symbol: Per3
Synonyms: 2810049O06Rik; mPer3
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC223613 representing NM_011067
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGATCCCTGTGGAGACCCGGCAGTACCTGGTGGCGACTGTCCCAGACTAGGGGACCGGGCTCCAGG
 GGGCGTCTGGCCAGGAGGTCTCTGCAGGCACTTTCGCTGGACAGCAGCCACAGTGAACACGAAGACCG
 AAACAGAAATGTCTGAAGAGCTTATAATGGTTGTCCAAGAAATGAAAAAGTATTTCCAGCCGAGAGGCAC
 ACTAAGCCAGTACCCTAGATGCTTAACTATGCCTGCGCTGTGTACACAGTGTGCAAGCAAACAGTG
 ACTTTTTCCAGAGTCTCGGTCCACGCGGAGCACACCAGGCAGATGTGACTGTATACAGTCTTGAGGACCT
 CACCGCTCTGGCTTCTGAACATACTTCTAAGAACACAGATACCTTCGCGGCCGTGTTTTCTGTTCTGTCT
 GGAAGGTTAGTGACATTTCTGAGCAGGCTGCTTTGATCCTGAATTCTAAGAGGGGTTTTCTCAAGAGCG
 TGCACTTTGTGACCTGCTTGCCCTCAAGACGTGAGGGCGTTCTACGCGCACACTGCTCCAACCTCAGCT
 TCCTTTCTGGAACAACCTGGACCCAAAGAGCCTCGCAGTATGAATGTGCACCAGCGAAACCCTTTTCTGC
 AGAATCTGTGGAGGTGGAGACAGAGAGAAGAGGCATTACTCCCATTCCGGATCCTCCCCTATTTGGTTC
 ATGTACATAGCTCTGCCAGCCAGAACCAGAGCCTTGCTGTCTAACACTGGTTGAAAAGATTCACTCTGG
 TTACGAAGCTCCTCGAATCCCTGTAGATAAAAAGATTTTTACCACAACACACACTCCAGGATGTGTGTTT
 CTTGAAGTAGATGAAAGAGCAGTGCCTTTGCTGGTTACCTACCTCAGGATCTGATTGGAACATCGATCT
 TAACATACTTGCACCCAGAAGATCGGCCTCTGATGGTTGCCATACACCAAAAAGTTTTAAAGTATGCCGG
 CCACCCTCCGTTTGAACACTCGCCCGTCAGATTCTGCACTCAGAACGGAGAGTATGTCACTTCTGGATTCC
 AGCTGGTCCAGCTTTGTCAACCCTGGAGCCGGAAGGTCTCCTTCATCATTGGTGCACATAAAGTCCGAA
 CGAGTCCATTAATGAAGATGTTTTGCCACCAGAATAAAAAAGGCAGCCAGTACGACAAAGACATAGC
 AGAATTACAAGAACAATTCACAACTTCTCTTGACCCGTTTCATGCTAGTGTCTCCAGTGGCTACGGG
 AGCCTGGGCAGCAGCGGCTCACAGGAGCAGCACGTGAGTACCTCTTCGAGTGTGAGTCCAGCGGGCACT
 GTCCGGAGGAAGCCAGCATGAGCAGATGACCCTGCAGCAGGTCTATGCCAGTGTAAACAAAATTAAAGAA
 TGTGGGCCAACAGCTCTACATCGAGTCCATGGCCAGATCATCAGTGAAGCCAGTGGCAGAGAGCTGCGTG
 GAACCGCAGGGTGGTGTGATGAGCAGAAGGACTTTTCTTCTCTCAGACACTGAAAAATAAAGCACCACCG



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A T A C T G G C T C C G G T G G C A A T C T G C A G C A A G A G C A G C C C A G C T C G T C C T A T C A G C A G A T G A A C T G T A T C G A
 C A G T G T C A T C A G G T A C C T G A C A A G C T A C A G C C T C C C G G C C T T G A A A G A A A G T G C A T C T C C T G C A C A A A C
 A C A T C T T C A T C C T C A G A A G A A G C C A A G C C A A T C C C G G A G G T G G A C A G C A G C C A G A G A C A C G G A A C A G C
 T C C T G G A C A T A C G G A A A C A G G A A C A A C T G G A C C A T C C A C A G A C A T C G A A G G A G G T G C T G C T C G G A C C C T
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 C C G C C C T A C A G T C A G A A A G T G T G C C G T G G C G T G T A A G C C G T G G G C C C T G A G A A C G A A G G C C T C T C A C C
 T G G C T G C A G G A G G A T T T A A G C A C G T G G G G C T C A C A G C A G C T G C C T C T C T G C A C A C A C A C A G A G G A A G A
 G C A G A A C T A C G T T G A C A G G T T C C G G A A A A G A T C C T G A C C T C G C C C T A C G G T T G C T A T C T T C A G C A A G A G
 A G C A G A A A C C G T G C T C A G T A C C T G T T C A A G C A G G G T C C A C T G C T A A G C A C A G C A G A T G T G C T G G A A
 G C G A G A G G C A G A A G C A C A A A C G A A A G A A G T T G C C A G C A C C T G T G G A C A C C A G C A G C C C C G G T G C C C A C C T
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 G G T C T T G A A C T G G C A C C C T T A G T A C C A G C A A T G G C T C C A A C C C G G A A C C A A C C A C T T C A G G C C A C A G
 C C A A A G G A G A G T G G A G G A A C T G G G A G G C A C A C A G T G A A G A G C T T C C G T T C A T T A G C T C A C G G A G C A G T
 T C A C C G T T A C A G T T A A A T T T A C T C C A G G A A G A A T G C C T G C G C C G T C A G A G T C C G C A G A C G C A G T G A G A A
 G A G G C G T G G G C C A G A C G C T A A G C A T C A C T G T G T T A C A G G T C C C A G T G G C A G T A G G A G C C G T C A C T G C A C
 C T C T G G T G A G C T G G C C A C G G C A A C A G C G C A G C A G G A G T C T G C T G C C T C A G G A A G C A G T G C C A G C A G T
 A T A T A C T T C A G T A G C A C T G A C T A T G C T T C T G A A G T C T C T G A A A C A G A C A G A G G C C A C A G G A T A G A C A G A
 G A G A C G A A G C C C T T C C C G G G C G G C T G A A G A G T C C A T C T G G A G A A T G A T A G A G C G G A C A C C A G A G T G T G T
 T C T C A T G A C A T A C C A G G T G C C C G A G A G G G T C G A G A G A G G T G C T G A A G C A G A C C T G G A G A A G C T C C A G
 A G C A T G G A A C A G C A G C A G C C C C T G T T C T C C C G C G C A G A G G G A G A G C T G G C C A A G G T G C G C T C C T G G A
 T C C A C A G C C A C A G C C C C T C A G G A G G G A C A C C T C C A G A G C T G T G T C G C C T G T G A A G A C A G A G G T T C A G T
 G G G T G A C A C T G C A G A G G T C C T G G A A C A G C A C C C A G C A G A A G A C C A G T G A

ACGCGT A C G C G G C C G C T C G A G C A G A A A C T C A T C T C A G A A G A G G A T C T G G C A G C A A A T G A T A T C C T G G A T T
 A C A A G G A T G A C G A C G A T A A G G T T T A A

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_011067
- Insert Size:** 3342 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:**
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_011067.3](#), [NP_035197.2](#)

RefSeq Size: 5996 bp

RefSeq ORF: 3342 bp

Locus ID: 18628

UniProt ID: [O70361](#)

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 (2) uses an alternate in-frame splice junction at the 5' end of an exon compared to variant 1. The resulting isoform (2) has the same N- and C-termini but is 1 aa shorter compared to 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.