

Product datasheet for **MR231176**

Per3 (NM_001289878) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Per3 (NM_001289878) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Per3
Synonyms:	2810049O06Rik; mPer3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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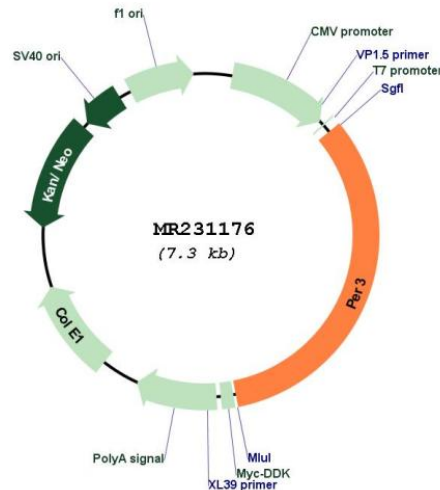
ORF Nucleotide
Sequence:

>MR231176 representing NM_001289878
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGTTGCCATACACAAAAAGTTTTAAAGTATGCCGGCCACCCTCCGTTTGAACACTCGCCCGTCAGAT
 TCTGCACTCAGAACGGAGAGTATGTCATTCTGGATTCCAGCTGGTCCAGCTTTGTCAACCCCTGGAGCCG
 GAAGGTCTCCTTCATCATTGGTCGACATAAAGTCCGAACGAGTCCATTAATGAAGATGTTTTTGCACC
 AGAATAAAAAAGGCAGCCAGTAACGACAAAGACATAGCAGAATTACAAGAACAAATTCACAACTTCTCT
 TGCAGCCGGTTCATGCTAGTGCTTCCAGTGGCTACGGGAGCCTGGGCAGCAGCGGCTCACAGGAGCAGCA
 CGTCAGCATCACCTCTTCGAGTGAGTCCAGCGGGCACTGTCCGGAGGAAGGCCAGCATGAGCAGATGACC
 CTGCGAGCAGGTCTATGCCAGTGTAAACAAAATTAAGAATGTGGGCCAACAGCTCTACATCGAGTCCATGG
 CCAGATCATCAGTGAAGCCAGTGGCAGAGACGTGCGTGGAAACCGCAGGGTGGTATGAGCAGAAGGACTT
 TTCTTCTCTCAGACACTGAAAAATAAAAGCACCGGATACTGGCTCCGGTGGCAATCTGCAGCAAGAG
 CAGCCCAGCTCGTCTATCAGCAGATGAACTGTATCGACAGTGTATCAGGTACCTGACAAGCTACAGCC
 TCCCGGCCTTGAAAAGAAAGTGATCTCCTGCACAAACACATCTTCATCCTCAGAAGAAGCCAAGCCAAT
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 CCATCCACAGACATCGAAGGAGGTGCTGCTCGGACCCTGTCCACCGCCGCACTGAGCGTGGCGTCTGGCA
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 CACACAGTGAAGAGCTTCGGTTCATTAGCTCACGGAGCAGTTCACCGTTACAGTTAAATTTACTCCAGGA
 AGAAATGCCTGCGCCGTAGAGTCCGCAGACGAGTGAGAAGAGGCGCTGGGCCAGACGCTAAGCATCAC
 TGTGTTACAGGTCCCAGTGGCAGTAGGAGCCGTCACTGCACCTCTGGTGGAGTGGCCACGGCAACAGCGC
 AGCAGGAGTCTGCTGCTGCCTCAGGAAGCAGTGCAGCAGTATATACTTCAGTAGCACTGACTATGCTTC
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 GAGTCCATCTGGAGAATGATAGAGCGGACACCAGAGTGTGTTCTCATGACATACCAGGTGCCCGAGAGGG
 GTCGAGAGGAGGTGCTGAAGCAGGACCTGGAGAAGCTCCAGAGCATGGAACAGCAGCAGCCCTGTTCTC
 TCCCGCGCAGAGGAGGAGCTGGCCAAGGTGCGCTCCTGGATCCACAGCCACACAGCCCTCAGGAGGGA
 CACTCCAGAGCTGTGTCGCTGTGAAGACAGAGGTTCACTGGGTGACACTGCAGAGGTCCTGGAACAGC
 ACCCAGCAGAAGACACCAGT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Plasmid Map:


ACCN: NM_001289878

ORF Size: 2400 bp

OTI Disclaimer: 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_001289878.1](#), [NP_001276807.1](#)

RefSeq Size: 6048 bp

RefSeq ORF: 2403 bp

Locus ID: 18628

Cytogenetics: 4 E2

MW: 86.6 kDa

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]