

## Product datasheet for **MC228965**

### Per3 (NM\_001289878) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Per3 (NM_001289878) 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



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**Fully Sequenced ORF:** >MC228965 representing NM\_001289878  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGTTGCCATACACAAAAAGTTTTAAAGTATGCCGGCCACCCTCCGTTTGAACACTCGCCCGTCAGAT  
 TCTGCACTCAGAACGGAGAGTATGTCATTCTGGATTCCAGCTGGTCCAGCTTTGTCAACCCCTGGAGCCG  
 GAAGGTCTCCTTCATCATTGGTTCGACATAAAGTCCGAACGAGTCCATTAATGAAGATGTTTTTGCACC  
 AGAATAAAAAAGGCAGCCAGTAACGACAAAAGACATAGCAGAATTACAAGAACAATTCACAACTTCTCT  
 TGCAGCCGGTTCATGCTAGTGCTCCAGTGGCTACGGGAGCCTGGGCAGCAGCGGCTCACAGGAGCAGCA  
 CGTCAGCATCACCTCTTCGAGTGAGTCCAGCGGGCACTGTCCGGAGGAAGGCCAGCATGAGCAGATGACC  
 CTGCGAGCAGGTCTATGCCAGTGTAAACAAAATTAAGAATGTGGGCCAACAGCTCTACATCGAGTCCATGG  
 CCAGATCATCAGTGAAGCCAGTGGCAGAGACGTGCGTGGAAACCGCAGGGTGGTATGAGCAGAAGGACTT  
 TTCTTCTCTCAGACACTGAAAAATAAAAGCACCGGATACTGGCTCCGGTGGCAATCTGCAGCAAGAG  
 CAGCCCAGCTCGTCTATCAGCAGATGAACTGTATCGACAGTGTATCAGGTACCTGACAAGCTACAGCC  
 TCCCGGCCTTGAAAAGAAAGTGATCTCCTGCACAAACACATCTTCATCCTCAGAAGAAGCCAAGCCAAT  
 CCCGGAGGTGGACAGCAGCCAGAGAGACACGGAACAGCTCCTGGACATACGGAAAACAGAAAACACTGGA  
 CCATCCACAGACATCGAAGGAGGTGCTGCTCGGACCCTGTCCACCGCCGCACTGAGCGTGGCGTCTGGCA  
 TCAGCCAGTGCAGCTGCAGCAGCACCTTGCCACGCTCCGCCCTACAGTCAGCAGAAAGTGTGGCCGT  
 GGCGTGTAAAGCCGTGGCCCTGAGAACGAAGCCCTCTCACCTGGTGCAGGAGGATTTAAGCACGTGGGG  
 CTCACAGCAGCTGTCTCTGTCACACACAGAAGGAAGAGCAGAACTACGTTGACAGGTTCCGGGAAA  
 AGACTCTGACCTCGCCCTACGGTTGCTATCTTCAGCAAGAGAGCAGAAACCGTGCCTACTCCTGTGT  
 TCAGCAGGGTCCACTGCTAAGCACAGCAGATGTGCTGGAAGCGAGAGGCAGAAGCACAACGAAAAGAA  
 TTGCCAGCACCTGTGGACACCAGCAGCCCGGTGCCACCTCTGTCCCATGTCACAGGACTCCTCCCGG  
 ATGAGCAGCACTGGGGCCATCCGCTAGCCCTCCCCCTCGGCGCAGGCTTAGCATTCCCTCGGCCCT  
 GGTAGTCCCAGCCAGACCCCTTATCTCTCCCTCTTTTCCCTCCAAGATATGGCCTCTCAGGGAGTG  
 GGGGTCTCGGCAGCCTGGGGAGCTGCAGCCGATGTCCACCTCTGTCCGCCGGCCCCAGGCTGTTGCCG  
 CGTTCCTCCGTTACGTGGATACTTTGATGACCATCTCTGCACAACGCCCTCTCTCCCTCTGTG  
 GCCGCCCTCGTTCTCCCATACCCATCCCTGGGGCCGAGGGTCTTCTGAACTGGCACCCCTTAGTACCA  
 GCAATGGTCCAACCCGGAACCAACACTTCAGGCCACAGCCAAGGAGAGTGGAGGAGAACTGGGAGG  
 CACACAGTGAAGAGCTTCGGTTCATTAGCTCACGGAGCAGTTCACCGTTACAGTTAAATTTACTCCAGGA  
 AGAAATGCCTGCGCCGTAGAGTCCGCAGACGAGTGAAGAAGGCGCTGGGCCAGACGCTAAGCATCAC  
 TGTGTTACAGGTCCCAGTGGCAGTAGGAGCCGTCAGTGCACCTCTGGTGAAGTGGCCACGGCAACAGCGC  
 AGCAGGAGTCTGCTGCTGCCTCAGGAAGCAGTGCAGCAGTATACTTCAGTAGCACTGACTATGCTTC  
 TGAAGTCTCTGAAAACAGACAGAGGCCACAGGATAGACAGAGAGACGAAGCCCTTCCCGGGGCGGCTGAA  
 GAGTCCATCTGGAGAATGATAGAGCGGACACCAGAGTGTGTTCTCATGACATACCAGGTGCCCGAGAGGG  
 GTCGAGAGGAGGTGCTGAAGCAGGACCTGGAGAAGCTCCAGAGCATGGAACAGCAGCAGCCCTGTTCTC  
 TCCCGCAGAGGAGGAGCTGGCCAAGGTGCGCTCCTGGATCCACAGCCACACAGCCCTCAGGAGGGA  
 CACTCCAGAGCTGTGTCGCTGTGAAGACAGAGGTTAGTGGGTGACACTGCAGAGGTCCTGGAACAGC  
 ACCCAGCAGAAGACACCAAGT**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-MluI  
**ACCN:** NM\_001289878  
**Insert Size:** 2403 bp

<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001289878.1, NP_001276807.1</u>
<b>RefSeq Size:</b>	6048 bp
<b>RefSeq ORF:</b>	2403 bp
<b>Locus ID:</b>	18628
<b>Cytogenetics:</b>	4 E2
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (3) contains an alternate exon and uses a downstream start codon compared to variant 1. The resulting isoform (3) is shorter at the N-terminus 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.</p>