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Product datasheet for RN202334

Per3 (NM_023978) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Per3 (NM_023978) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Per3
Synonyms:	period3; rper3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>RN202334 representing NM_023978 Red=Cloning site Blue=ORF Orange=Stop codon TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGATCCCTGTGGAAACCCGGCAGTGCCTGGTGGCGACTGTCCCCAAACTAGGGGACCGGGGCTCCAAG GGTCGTCTGGCCAGGAGGGTCCTCTGCAGGGCATTTGCGTGGACAGCAGCCACAGTGAACATGAAGACCG AAACAGAATGTCTGAAGAGCTTATAATGGTTGTCCAAGAAATGAAAAAGTATTTCCCAGCCGAGAGACAC ACTAAACCCAGCACCCTAGATGCCCTTAACTATGCCCTACGCTGTGTACATAGTGTGCAAGCAAACAGTG AATTTTTCCAGAGTCTCAGTCCACGTGGAGCACGTCAGGCAGAAGCGACTGTATATAATCTCGAGGAGCT GACCTCTCTGGCTTCTGAACATACTTCCAAGAACACAGATACCTTCGTGGCAGTGTTTTCGTTTCTGTCT GGAAGGCTGGTGCACATTTCTGAACAGGCTGCTTGGATCCTGAATTCTAAGAAAGGTTTCCTCAAGAGCT TGCACTTCGTCGACCTGCTTGCCCCTCGGGACGTGAGGGTGTTCTACGCTCACACCGCTCCAACTCAACT CCCTTTCTGGAACACCTGGACCCAAAGAGCCTCGCAGTATGAATGCGCACCAGTGAAGCCCTTTTTCTGC AGAATCTGTGGCGGTGGAGACAGGGAGCAGAAGAGACATTACTCCCCATTCCGGATCCTCCCCTACTTGG TTCATGTACACAGCCCTGCCCAGCCAGAGCCAGAGCCTTGCTGTCTAACACTGGTTGAAAAGATTCACTC TGGTTATGAAGCTCCTCGAATCCCTGTAGATAAAAGAGTTTTTACCACAACACACACGCCGGGATGTGTG TTTCTTGAAGTAGATGAAAGAGCAGTGCCTTTGCTGGGTTTCCTACCTCAGGATCTGATTGGAACGTCGA TCTTAACGTACTTGCACCCAGAAGATCGGCCTCTGATGGTTGCAGTACACCAAAAAGTTTTAAAGTACGT GGGCCACCCTCCATTTGAACACTCACCCATAAGATTCTGCACGCAGAATGGAGATTATGTCATTCTGGAT TCCAGCTGGTCCAGCTTTGTGAACCCCTGGAGCCGGAAGGTCTCCTTCATCATTGGTCGACATAAAGTCC GAACGAGCCCGTTAAATGAAGATGTTTTTGCCACCAGAATAAAAAAGGCAACCAGTCATGACGAAGACAT AACAGAATTACAAGAACAAATTCACAGACTTCTCTTGCAGCCGGTTCATGCCAGTGCTTCCAGTGGCTAC GGGAGCCTGGGCAGCAGTGGCTCGCAGGAGCAGCACATCAGCGTCACCTCTTCCAGTGAGTCAAGCGGAC ACTGTGTGGAGGAAGCCCAGCAGGAGCAGATGACCCTGCAGCAGGTCTATGCCAGTGTAAACAAAATTAA GAATGTGGGCCAACAGCTCTACATCGAGTCGATGGCCAGATCGTCGGTGAAGCCAGTGATGGAGACGTGC ACGGAACCGCAGGGTAGTGATGAGCAGAAGGACTTTTCTTCCTCTCAGACACTGAAAAATAAAAGCACAG

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ATACCGGCTCTGGAGGCGATCTGCGGCCAGAGCAGCATAGCTCGTCCTATCAGCAGATGAACTGCATCGA
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CCTGGATCCACAGCCGCCCTGCCCCTGAGGAAAGACAGCTCCAAAGCTATGTCACCTGTGAAAACAGAGG
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_023978

Insert Size: 3348 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_023978.2, NP_076468.2

RefSeq Size:	3504 bp
RefSeq ORF:	3348 bp
Locus ID:	78962
UniProt ID:	Q8CJE2
Cytogenetics:	5q36
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. [provided by RefSeq, Feb 2014]