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Product datasheet for MC224162

Per1 (NM_001159367) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Per1 (NM_001159367) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Per1
Synonyms:	Hftm; m-rigui; mPer1; Per
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC224162 representing NM_001159367 Red=Cloning site Blue=ORF Orange=Stop codon TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGAGTGGTCCCCTAGAAGGGGCCGATGGGGGAGGAGACCCCAGGCCCGGAGAACCTTTTTGTCCTGGAG GAGTCCCATCCCCTGGGGCCCCGCAGCACCGGCCTTGTCCAGGCCCCAGCCTGGCTGATGACACTGATGC AAACAGCAATGGCTCAAGTGGCAATGAGTCCAACGGACCCGAGTCCAGGGGCGCATCTCAGCGGAGTTCT CATAGTTCCTCTTCTGGCAATGGCAAGGACTCAGCTCTGCTGGAGACCACTGAGAGCAGCAAGAGTACAA ACTCACAGAGCCCATCCCCACCCAGCAGCTCCATTGCCTACAGCCTCCTGAGTGCGAGCTCAGAGCAGGA CAACCCATCTACCAGTGGCTGCAGCAGTGAACAGTCAGCTCGAGCCAGGACCCAGAAAGAACTCATGACT GCACTTCGGGAGCTCAAACTTCGACTGCCACCAGAGCGTCGGGGCAAGGGCCGCTCTGGGACCTTGGCCA CACTGCAGTACGCTCTGGCCTGTGTCAAGCAGGTTCAGGCTAACCAGGAATATTACCAGCAGTGGAGTCT GGAGGAGGGTGAGCCTTGTGCCATGGACATGTCTACTTACACCCTGGAGGAATTGGAGCATATCACATCC GAATACACACTTCGAAACCAGGACACCTTCTCTGTGGCTGTGTCCTTCCTGACAGGCCGGATTGTCTATA TTTCGGAGCAGGCAGGTGTCCTGCTGCGTTGCAAACGGGATGTGTTTCGGGGTGCCCGCTTCTCAGAGCT CCTGGCTCCCCAGGATGTGGGTGTCTTCTATGGCTCTACTACACCATCTCGACTGCCCACCTGGGGCACT GGCACCTCTGCAGGTTCAGGTCTCAAGGACTTCACCCAGGAAAAGTCTGTCTTCTGCCGAATCAGAGGAG GTCCTGACCGGGATCCAGGGCCTCGGTACCAGCCATTCCGCCTAACCCCATATGTGACCAAGATTCGGGT CTCAGATGGAGCCCCTGCACAGCCGTGCTGCCTACTCATTGCCGAGCGCATCCACTCTGGTTATGAAGCT CCCCGGATCCCTCCTGACAAGAGGATCTTCACCACCCGACACACACCAAGCTGCCTCTTCCAGGATGTAG ATGAAAGGGCTGCCCCACTGCTGGGTTACCTTCCCCAGGATCTCCTGGGGGCTCCAGTACTTCTCTTTCT ACATCCTGAGGACCGACCCCTCATGCTGGCCATTCATAAGAAGATACTGCAGCTGGCAGGCCAGCCCTTT GACCATTCCCCTATTCGCTTCTGTGCTCGGAACGGGGAATATGTCACCATGGACACCAGCTGGGCCGGTT TTGTGCACCCCTGGAGCCGCAAGGTGGCTTTCGTGTTGGGTCGCCATAAAGTGCGCACGGCACCCCTGAA TGAGGACGTCTTCACTCCCCCAGCCCCCAGCCCAGCTCCGTCCCTGGACTCTGATATCCAGGAGCTCTCA GAGCAGATCCATCGATTGCTGCTGCAGCCTGTGCACAGCTCCAGCCCCACGGGGCTCTGTGGAGTTGGCC

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CTCTGATGTCCCCTGGTCCTCTACACAGCCCTGGCTCCTCCAGTGATAGCAATGGGGGGGACGCTGAGGG
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GGTTCAAGCTCTCAGGACTCTGCCATGGAGGAAGAAGAGCAAGGTGGGGGCTCATCCAGCCCAGCTTTAC
CTGCAGAAGAAAACAGCACCAGCTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001159367

Insert Size: 3876 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_001159367.1, NP_001152839.1
RefSeq Size:	4648 bp
RefSeq ORF:	3876 bp
Locus ID:	18626
UniProt ID:	O35973
Cytogenetics:	11 B3
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 may increase the risk of getting certain cancers. Two transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Jan 2014] Transcript Variant: This variant (2) differs in the 5' UTR, compared to variant 1. Variants 1 and 2 encode the same protein.