

Product datasheet for MC224163

Per1 (NM_011065) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Per1 (NM_011065) 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: >MC224163 representing NM_011065
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGAGTGGTCCCCTAGAAGGGGCCGATGGGGGAGGAGACCCAGGCCCGGAGAACCTTTTTGTCTGGAG
 GAGTCCCATCCCCTGGGGCCCCGAGCACCCGGCCTTGCCAGGCCCCAGCCTGGCTGATGACTGATGC
 AAACAGCAATGGCTCAAGTGGCAATGAGTCCAACGGACCCGAGTCCAGGGGCGCATCTCAGCGGAGTTCT
 CATAGTTCCTTCTGGCAATGGCAAGGACTCAGCTCTGCTGGAGACCACTGAGAGCAGCAAGAGTACAA
 ACTCACAGAGCCCATCCCCACCCAGCAGCTCCATTGCCTACAGCCTCCTGAGTGGGAGCTCAGAGCAGGA
 CAACCCATCTACCAAGTGGCTGCAGCAGTGAACAGTCAAGTCAAGTCCGAGCCAGGACCCAGAAAGAACTCATGACT
 GCATTCGGGAGCTCAAACCTCGACTGCCACCAGAGCGTCGGGGCAAGGGCCGCTCTGGGACCTTGCCCA
 CACTGCAGTACGCTCTGGCCTGTGTCAAGCAGGTTCAAGGTAACCCAGGAATATTACCAGCAGTGGAGTCT
 GGAGGAGGGTGAGCCTTGTGCCATGGACATGTCTACTTACACCCTGGAGGAATTGGAGCATATCATATCC
 GAATACACACTTCGAAACCAGGACACCTTCTCTGTGGCTGTGTCTTCTGACAGGCCGGATTGTCTATA
 TTTGGAGCAGGCAGGTGCTCTGCTGCGTTGCAAACGGGATGTGTTTCGGGGTGCCCGCTTCTCAGAGCT
 CCTGGCTCCCCAGGATGTGGGTGCTTCTATGGCTCTACTACACCATCTCGACTGCCACCTGGGGCACT
 GGCACCTCTGCAGTTCAAGTCTCAAGGACTTCAACCAGGAAAAGTCTGTCTTCTGCCGAATCAGAGGAG
 GTCCTGACCGGGATCCAGGGCCTCGGTACCAGCCATTCCGCTAACCCTATATGTGACCAAGATTCGGGT
 CTCAGATGGAGCCCTGCACAGCCGTGCTGCTACTATTGCCGAGCGCATCCACTCTGGTTATGAAGCT
 CCCCAGGATCCCTCCTGACAAGAGGATCTTACCACCCGACACACCAAGCTGCCTTCCAGGATGTAG
 ATGAAAGGGTCCCCACTGCTGGGTTACCTTCCCAGGATCTCCTGGGGCTCCAGTACTTCTCTTTCT
 ACATCCTGAGGACCGACCCCTCATGCTGGCCATTATAAGAAGATACTGCAGCTGGCAGGCCAGCCCTTT
 GACCATTCCCCTATTCGCTTCTGTGCTCGGAACGGGAATATGTCACCATGGACACCAGCTGGGCCGGTT
 TTGTGACCCCTGGAGCCGCAAGGTGGCTTTCTGTTGGGTGCGCATAAAGTGCGCACGGCACCCCTGAA
 TGAGGACGTCTTCACTCCCCAGCCCCAGCCAGCTCCGTCCCTGGACTCTGATATCCAGGAGCTCTCA
 GAGCAGATCCATCGATTGCTGCTGCAGCCTGTGCAGCTCCAGCCCCACGGGGCTCTGTGGAGTTGGCC



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CTCTGATGTCCCCTGGTCTCTACACAGCCCTGGCTCCTCCAGTGATAGCAATGGGGGGACGCTGAGGG
 GCCTGGGCTCCTGCTCCAGTGACTTCCAGCAGATCTGTAAGGATGTGCATCTGGTAAAGCACCAGGGA
 CAACAGCTCTTCAATTGAATCTCGGGCAAGCCCCACCCCGCCCTCCTTGCTACAGGTACATTCA
 AAGCCAAAGTCTTCCCTGCCAGTCCCCAAACCCGAACCTGGAGGTGGCCCCAGTTCTGACCAAGCCTC
 GTTAGCCTTGGCCCTGAGGAGCCAGAGAGAAAGAAACCTCTGGCTGTTCTACCAGCAGATCAACTGC
 CTGGACAGCATCCTCAGGTATTTGGAGAGCTGCAACATCCCAGTACAACCAAGCGTAAATGTGCCTCCT
 CCTCCTCTACACTGCCCTTTCAGCCTCTGATGATGACAAGCAGAGGGCAGGTCCAGTTCCTGTGGGGC
 CAAGAAAAGATCCGTCGTAGCAATGCTGTCTGGGAGGGGCAACTCCTCGGAAGGAGCCAGTGGTGGGA
 GGCACCCTGAGCCGCTCGCCCTGGCCAATAAGGCAGAGAGCGTGGTGTCCGTCACCAGTCAGTGTAGCT
 TCAGCTCCACCATCGTCCATGTGGGAGACAAGAAGCCCCGGAGTCGGACATCATCATGATGGAAGACCT
 GCCTGGCTGGCCCTGGCCAGCCCCAGTCCGGCCCCAGCCCCACAGTAGCCCTGACCCAACCCCA
 GATGCTTATCGCCAGTGGTCTGACCAAGGCCGTGCTGTCCCTGCACACAGAAAGGAAGCAAGCCT
 TCCTCAACCGCTCAGAGATCTTGGCAGGCTTCGTGGACTTGACACCTTCTGTGGCCCTCAGCCCC
 TGGCTGCCACCATGGCCCATCCCCCTGGTCGCCGACACCCTGCCGATCTAAAGCAAAGCGTTCCCGC
 CACCACCACCAGACCCCGCCCGAAACTCCCTGCTATGTCTCCCATCCTTCACTGTGCCCTCTT
 CTGGACCTGGCCACCCACCAGCCACGACCCCTTCCAGCAATGGTCCAGCCCTACCCACTCCCAGT
 ATTCTCCCTCGAGGAGGACCCAGCCCTTCCCTGCCCCTACATCTGTGTCCCTGCTACCTCCCT
 TCTCCCTAGTGACCCCAATGGTGGCTTGGTGTCCCTAACTATCTATCCCTACCCACCTAGTTATC
 CATATGGGGTGTCCCAGGCCCTGTTGAGGGGCCACCCACGCCTGCTTCCACTCGCCCTCTCCATCCCT
 GCCCCACCACCTCTCAGCCCCCCCACCGCCAGACTCCCCTGTTCAACTCGAGATGCAGCTCCCCA
 CTCCAGCTCAATCTGCTGCAGCTTGAGGAGTCCCCCGCAGGAGGGGGCGTCTGCAGGAGGCCAG
 GAAGCAGTGTGGGCCCTGCCCTCCAGTGAGGAGACTGCTGAGCCAGAGGCCAGATTGGTGGAGTTAC
 TGAGTCGTCCAATCAGGATGCATTTTCAGGCTCCAGCGACTGCTGGAGCTACTGCTCAAGAAGACTCT
 CGCTCGGGCACAGGCTCCGCAGCCTCAGGCTCCCTGGGCTCTGGCCTGGGCTCTGGGTCTGGTTTCAGGAT
 CCCACGAAGGGGAAGCACCTCAGCCAGCATCACCCGCAGCAGTCAGAGCAGCCATAACAAGCAAGTACTT
 TGGCAGCATCGACTCTTCCGAGGCTGAAGCTGGGGCTGCTCGGGCCAGGACTGAGCCTGGGGACCAGGTC
 ATTAAGTGTGTGCTCCAGGACCCATCTGGCTGCTCATGGCCAATGCCGACCAGCGTGTGATGACAT
 ACCAGGTGCCGTCCAGGATGCAGCCTCTGTGCTGAAGCAAGACCGGGAGAGGCTCCGGGCCATGCAGAA
 ACAGCAGCCACGGTTCTCAGAGGACCAGAGCGGGAACGGGTGCTGTGCACTCCTGGGTCGGAAGGGC
 CAGCTGCCTCGGCCCTTGATGTGACGGCGTGTGGACTGTGGCAGCAGCGTTCAAGATCTGGCCACT
 CTGATGACCCCTTCTCAGAAGTGGATGGATTGGGGCTGGAGCCCATGGAAGAGGGTGGAGGCGAGGG
 TGGTGGGTGTGGTGTGGCGGTGGTGGGGTGGTGGTGGTGGAGGAGCCAGACCCAAATGGGGCTAAG
 GTTCAAGCTCTCAGGACTCTGCCATGGAGGAAGAAGAGCAAGGTGGGGGCTCATCCAGCCAGCTTTAC
 CTGCAGAAGAAAACAGCACCAGCTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM_011065
- 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_011065.4](#), [NP_035195.2](#)

RefSeq Size: 4663 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 (1) represents the longer transcript. Variants 1 and 2 encode the same protein.