

Product datasheet for **MC223062**

Per1 (BC091645) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Per1 (BC091645) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Per1
Synonyms:	Per, mPer1, m-rigui
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>BC091645 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGAGTGGTCCCCTAGAAGGGGCCGATGGGGGAGGAGACCCAGGCCCGGAGAACCTTTTTGTCTGGAG
GAGTCCCATCCCCTGGGGCCCCGAGCACCCGGCCTTGCCAGGCCCCAGCCTGGCTGATGACTGATGC
AAACAGCAATGGCTCAAGTGGCAATGAGTCCAACGGACCCGAGTCCAGGGGCGCATCTCAGCGGAGTTCT
CATAGTTCCTCTTCTGGCAATGGCAAGGACTCAGCTCTGCTGGAGACCACTGAGAGCAGCAAGAGTACAA
ACTCACAGAGCCCATCCCCACCCAGCAGCTCCATTGCCTACAGCCTCCTGAGTGGGAGCTCAGAGCAGGA
CAACCCATCTACCAAGTGGCTGCAGCAGTGAACAGTCAAGTCAAGTCCGAGCCAGGACCCAGAAAGAACTCATGACT
GCATTCGGGAGCTCAAACCTCGACTGCCACCAGAGCGTCGGGGCAAGGGCCGCTCTGGGACCTTGCCA
CACTGCAGTACGCTCTGGCCTGTGTCAAGCAGGTTCAAGGTAACCCAGGAATATTACCAGCAGTGGAGTCT
GGAGGAGGGTGGCCTTGTGCCATGGACATGTCTACTTACACCCTGGAGGAATTGGAGCATATCATATCC
GAATACACACTTCGAAACCAGGACACCTTCTCTGTGGCTGTGTCTTCTGACAGGCCGGATTGTCTATA
TTTCGGAGCAGGCAGGTGTCTGTGCGTTGCAAACGGGATGTGTTTCGGGGTGCCCGCTTCTCAGAGCT
CCTGGCTCCCCAGGATGTGGGTGTCTTCTATGGCTCTACTACACCATCTCGACTGCCACCTGGGGCACT
GGCACCTCTGCAGTTCAGGTCTCAAGGACTTCAACCAGGAAAAGTCTGTCTTCTGCCGAATCAGAGGAG
GTCCTGACCGGGATCCAGGGCCTCGGTACCAGCCATTCCGCTAACCCCATATGTGACCAAGATTCGGGT
CTCAGATGGAGCCCTGCACAGCCGTGCTGCTACTCATTGCCGAGCGCATCCACTCTGGTTATGAAGCT
CCCCGGATCCCTCTGACAAGAGGATCTTACCACCCGACACACCAAGCTGCCTTCCAGGATGTAG
ATGAAAGGGTGGCCACTGCTGGGTTACCTTCCCAGGATCTCCTGGGGCTCCAGTACTTCTCTTTCT
ACATCCTGAGGACCGACCCCTCATGCTGGCCATTATAAGAAGATACTGCAGCTGGCAGGCCAGCCCTTT
GACCATTCCCCTATTCGCTTCTGTGCTCGGAACGGGGAATATGTCACCATGGACACCAGCTGGGCCGGTT
TTGTGACCCCTGGAGCCGCAAGGTGGCTTTCTGTTGGGTGCGCCATAAAGTGGCAGCCGACCCCTGAA
TGAGGACGTCTTCACTCCCCAGCCCCAGCCAGCTCCGTCCCTGGACTCTGATATCCAGGAGCTCTCA
GAGCAGATCCATCGATTGCTGCTGCAGCCTGTGCAGCTCCAGCCCCACGGGGCTCTGTGGAGTTGGCC



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CTCTGATGTCCCCTGGTCTCTACACAGCCCTGGCTCCTCCAGTGATAGCAATGGGGGGACGCTGAGGG
 GCCTGGGCTCCTGCTCCAGTGACTTTCCAGCAGATCTGTAAGGATGTGCATCTGGTAAAGCACCAGGGA
 CAACAGCTCTTCAATTGAATCTCGGGCAAGCCCCACCCCGGCCCTCCTTGCTACAGGTACATTCA
 AAGCCAAAGTCTTCCCTGCCAGTCCCCAAACCCGAACCTGGAGGTGGCCCCAGTTCTGACCAAGCCTC
 GTTAGCCTTGGCCCTGAGGAGCCAGAGAGGAAAGAAACCTCTGGCTGTTCTACCAGCAGATCAACTGC
 CTGGACAGCATCCTCAGGTATTTGGAGAGCTGCAACATCCCAGTACAACCAAGCGTAAATGTCCCTCCT
 CCTCCTCTACACTGCCCTTTCAGCCTCTGATGATGACAAGCAGAGGGCAGGTCCAGTTCCTGTGGGGC
 CAAGAAAAGATCCGTCGTACGAATGCTGTCTGGGGAGGGGCAACTCCTCGGAAGGAGCCAGTGGTGGGA
 GGCACCCTGAGCCGCTCGCCCTGGCCAATAAGGCAGAGAGCGTGGTGTCCGTCACCAGTCAGTGTAGCT
 TCAGCTCCACCATCGTCCATGTGGGAGACAAGAAGCCCCGGAGTCGGACATCATCATGATGGAAGACCT
 GCCTGGCTGGCCCTGGCCAGCCCCAGTCCGGCCCCAGCCCCACAGTAGCCCTGACCCAACCCCA
 GATGCTTATCGCCAGTGGGTCTGACCAAGGCCGTGCTGTCCCTGCACACAGAAGGAAGCAAGCCT
 TCCTCAACCGCTCAGAGATCTTGGCAGGCTTCGTGGACTTGACACCTTCTGTGGCCTTGGTGTCC
 TAACTATCTATCCCTACCCACCTAGTTATCCATATGGGGTGTCCAGGCCCTGTTGAGGGGCCACCC
 ACGCCTGCTTCCACTCGCCCTTCCATCCCTGCCCCACCACCTCTAGCCCCCCCACCGCCAGACT
 CCCCACTGTTCAACTCGAGATGCAGTCCCACTCCAGCTCAATCTGCTGCAGCTTGAGGAGTCCCCCG
 CACGGAGGGGGCGCTGCTGCAGGAGGCCAGGAAGCAGTGTGGGCCCTGCCTCCCAGTGAGGAGACT
 GCTGAGCCAGAGGCCAGATTGGTGGAGTTACTGAGTCGTCCAATCAGGATGCACCTTTCAGGCTCCAGCG
 ACCTGTGGAGCTACTGCTCCAAGAAGACTCTCGCTCGGGCACAGGCTCCGCAGCCTCAGGCTCCCTGGG
 CTCTGGCTGGGCTCTGGGTCTGGTTCAGGATCCCACGAAGGGGGAAGCACCTCAGCCAGCATCACCCGC
 AGCAGTCAGAGCAGCCATAACAAGCAAGTACTTTGGCAGCATCGACTCTTCCGAGGCTGAAGCTGGGGCTG
 CTCGGCCAGGACTGAGCCTGGGACCAGGTCATTAAGTGTGTGCTCCAGGATCCAGCCTCTGGCTGCTCAT
 GGCCAATGCCGACCAGCGTGTATGATGACATACCAGGTGCCGTCCAGGGATGCAGCCTCTGTGTAAG
 CAAGACCGGAGAGGCTCCGGCCATGCAGAAACAGCAGCCACGGTTCTCAGAGGACCAGAGCGGGGAAC
 TGGGTGTGTGCACTCCTGGGTCCGGAAGGCCAGCTGCCTCGGGCCCTTGATGTGACGGCGTGTGGA
 CTGTGGCAGCAGCTTCAAGATCCTGGCCACTCTGATGACCCCTCTTCTCAGAAGTGGATGGATTGGGG
 CTGAGGCCATGGAAGAGGGTGGAGGCGAGGGTGGTGGTGTGGTGTGGCGGTGGTGGGGTGTGGT
 GTGAGGAGGCCAGACCAAAATTGGGGCTAAGGGTTCAAGCTCTCAGGACTCTGCCATGGAGGAAGAAGA
 GCAAGGTGGGGCTCATCCAGCCAGCTTTACCTGCAGAAGAAAACAGCACCAGCTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** BC091645
- Insert Size:** 3558 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: [BC091645](#), [AAH91645](#)

RefSeq Size: 4412 bp

RefSeq ORF: 3557 bp

Locus ID: 18626

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]