

Product datasheet for **MG211773**

Per1 (BC091645) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Per1 (BC091645) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Per1
Synonyms:	Per, mPer1, m-rigui
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG211773 representing BC091645 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGTGGTCCCCTAGAAGGGGCCGATGGGGGAGGAGACCCAGGCCCGGAGAACCTTTTTGTCCTGGAG
GAGTCCCATCCCCTGGGGCCCCGAGCACCAGCCCTTGTCCAGGCCCCAGCCTGGCTGATGACTGATGC
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GAGCAGATCCATCGATTGCTGCTGCAGCCTGTGCACAGCTCCAGCCCCACGGGGCTCTGTGGAGTTGGCC
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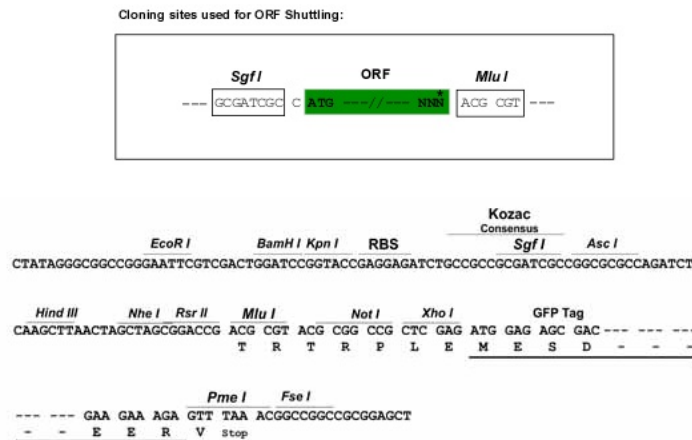
ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG211773 representing BC091645
 Red=Cloning site Green=Tags(s)

MSGPLEGADGGDPRPGPEPCPGGVPSPGAPQHRPCPGPSLADDDANSNGSSGNESENGPESRGASQRSS
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 DHSPIRF CARNGEYV TMDT SWAGFVHPWSRKVAFV LGRHKVRTAPLNEDVF TPPAPSPAPSLDSDIQELS
 EQIHRLLLQPVHSSSPTGLCGVGPLMSPGPLHSPGSSSDSNGGDAEGPGPPAPVTFQ QICKDVHLVKHQG
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 LDSILRYLESCNIPSTTKRKCASSSYTASSASDDDKQRAGVPVVGAKKDPSSAML SGEGATPRKEPVVG
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 TPASHSPSPSLPPPPLSPPHRPDSPLFNSRCSSPLQLNLLQLEESPRTEGAAAGGPGSSAGPLPPEET
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 SSQSSHTSKYFGSIDSSEAEAGAARARTEPGDQVIKCVLQDPIWLLMANADQRMVMTYQVPSRDAASVLK
 QDRERLRAMQKQPRFSEDQRREL GAVHSWVRKQLPRALDVTACVDCGSSVQDPGHSDPLF SELDGLG
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TRTRPLE - GFP Tag - V

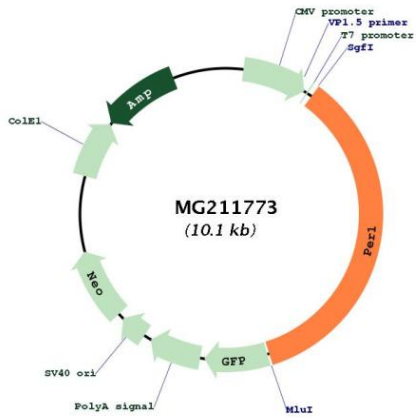
Restriction Sites: SgfI-MluI
 Cloning Scheme:



ACCN: BC091645
 ORF Size: 3557 bp

OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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:	<ol style="list-style-type: none">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]

Product images:



Circular map for MG211773