

## Product datasheet for MR225742

### Per1 (NM\_011065) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Per1 (NM_011065) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Per1
Synonyms:	Hftm; m-rigui; mPer1; Per
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR225742 representing NM_011065 Red=Cloning site Blue=ORF Green=Tags(s)

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GCC**CGATCGCC**

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GAGTCCCATCCCCTGGGGCCCCGAGCACCAGCCCTTGTCCAGGCCCCAGCCTGGCTGATGACTGATGC  
AAACAGCAATGGCTCAAGTGGCAATGAGTCCAACGGACCCGAGTCCAGGGGCGCATCTCAGCGGAGTTCT  
CATAGTTCCTCTCTGGCAATGGCAAGGACTCAGCTCTGCTGGAGACCACTGAGAGCAGCAAGAGTACAA  
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CAACCCATCTACCAAGTGGCTGCAGCAGTGAACAGTCCAGCTCGAGCCAGGACCCAGAAAGAACTCATGACT  
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CACTGCAGTACGCTCTGGCCTGTGTCAAGCAGGTTCAAGGTAACCCAGGAATATTACCAGCAGTGGAGTCT  
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GAGCAGATCCATCGATTGCTGCTGCAGCCTGTGCACAGCTCCAGCCCCACGGGGCTCTGTGGAGTTGGCC  
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Protein Sequence: >MR225742 representing NM\_011065  
 Red=Cloning site Green=Tags(s)

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MSGPLEGADGGGDP RPGE PFC PGGV P SPGAP QHRPC PGP SLADDTD ANSNG SSGNESNGPESRGASQRSS
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ALRELKLR LPPERRGKGRSGTLATLQYALACVKQVQANQEYYQQWSLEEGEPCAMDMSTYLEELEHITS
EYTLRNQD TFSVAVSFLTGRIVYI SEQAGVLLRCKRDVFRGARFSELLAPQDVGVFYGSTTSPRLPTWGT
GTSAGSGLKDF TQEKS VFCRIRGGPDRDPGPRYQPFRLTPYVTKIRVSDGAPAQPCLLIAERIHSGYEA
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DHSPIRFCARNGEYVTMDT SWAGFVHPWSRKVAFVLGRHKVRTAPLNEDVF TPPAPSPAPSLDSDIQELS
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QQLFIESRAKPPRPRL LATGTFKAKVLPQSPNPELEVAPVPDQASLALAPEEPERKETSGCSYQQINC
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SPLVTPMVALVLPNYLFP TPPSYPYGVSQAPVEGPPTPASHSPSPSLPPPLSPPHRPDSPLFNSRCSSP
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RSGTGSAASGSLGSLGSGSGSGSHEGGSTSASITRSSQSSTSKYFGSIDSSEAEAGAARTEPGDQV
IKCVLQDPIWLLMANADQRVMMTYQVPSRDAASVLKQDRERLRAMQKQPRF SEDQRREL GAVHSWVRKG
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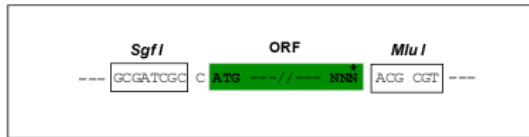
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



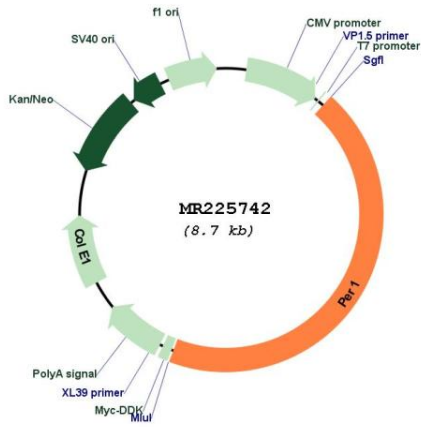
\* The last codon before the Stop codon of the ORF

ACCN: NM\_011065

ORF Size: 3873 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_011065.5</a>
<b>RefSeq Size:</b>	4663 bp
<b>RefSeq ORF:</b>	3876 bp
<b>Locus ID:</b>	18626
<b>UniProt ID:</b>	<a href="#">O35973</a>
<b>Cytogenetics:</b>	11 B3
<b>MW:</b>	136.8 kDa
<b>Gene Summary:</b>	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 MR225742