

## Product datasheet for **RR206909**

### Mtnr1a (NM\_053676) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Mtnr1a (NM_053676) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mtnr1a
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR206909 representing NM_053676 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAAGGGCAATGTCAGCGAGCTTCTCAACGCCTCTCAGCAGGCTCCAGGCGCGGGGAGGAAATAAGAT  
CGCGGCCGTCGTGGCTGGCCTCTACACTGGCCTCATCCTCATCTTTACTATCGTGGTGGACATCCTGGG  
CAACCTGCTGGTCATCCTGTCTGTGTATCGCAACAAGAAGCTCAGGAACGCAGGGAATATATTTGTGGTG  
AGTTTAGCTGTGGCAGACCTCGTGGTGGCTATTTACCCATTTCCCTTGGCGCTGACGTCTATACTTAACA  
ATGGATGGAACCTGGGATATCTGCATTGTCAAGTTAGTGCCTTCTAATGGGCCTGAGTGTATTGGCTC  
GGTATTCAACATCACCGGATCGCTATGAACCGCTACTGCTACATTTGCCACAGTCTCAAGTATGATAGG  
ATATACAGTAACAAGAATTCCTGTGCTACGTGTTCTGATATGGACTGACACTCATAGCCATCATGC  
CCAACCTGCAAACCGAACTCTCCAGTACGACCCCGGATCTACTCCTGTACCTCACCCAGTCCGTCAG  
CTCGGCGTACACGATTGCCCTGGTGGTTTTCCATTTCTAGTTCATGATTATTGTCACCTTTCTGCTAC  
TTAAGGATATGGATCCTGGTCTTCAGGTCAGACGGAGGGTAAACCGGACAGCAAACCCAACTGAAGC  
CGCAGGACTTCAGGAACCTTGTACCATGTTTGTAGTTTTGTACTTTTTGCCCTGTGCTGGGCCCACT  
CAACTTCATAGGTCTTATTGTGGCTCAGATCCGCGCCCATGGCCCCAGGATCCCGGAGTGGCTCTTC  
GTGGCTAGTTACTACCTGGCGTATTTCAACAGCTGCCTCAACGCAATCATATACGACTACTGAACCAAA  
ATTTCAGAAAGGAGTACAAGAGGATTATCATCTACTGTGCACAGCTAAGATGTTCTTTGTGGACAGTTC  
AAATGATGCAGCAGATAAGATTAATGTAAGCCCTCTCCACTAATAACCAATAATAATTTAATAAAGGTG  
GACTCTGTT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RR206909 representing NM\_053676  
 Red=Cloning site Green=Tags(s)

MKGNVSELLNASQQAPGGGEEIRSRLASTLAFILIFTIVVDILGNLLVILSVYRNKKLRNAGNIFVV  
 SLAVADLVVAIYPFLALTSILNNGWNLGYLHCQVSAFLMGLSVIGSVFNITGIAMNRYCYICHSLKYDR  
 IYSNKNLSYVFLIWTLLTIAIMPNLQTGLQYDPRIYSCTFTQSVSSAYTIALVVFHFVVPMMIIVTFCY  
 LRIWILVLQVRRRVKPDSPKPKLPQDFRNFVTMFVVFVLFALCWAPLNF IGLIVASDPAAMAPRIPEWLF  
 VASYLLAYFNLSCLNAIIYGLLNQNFKEYKRIIISLCTAKMFFVDSSNDAADKIKCKPSPPLITNNLIKV  
 DSV

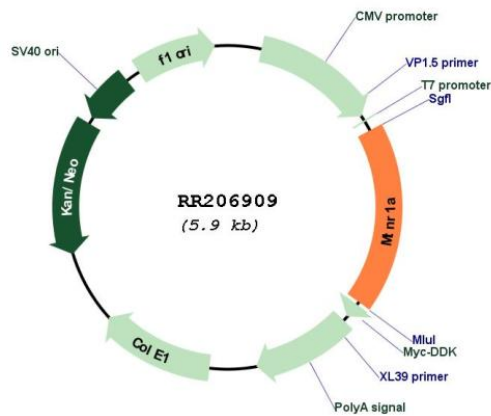
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_053676

<b>ORF Size:</b>	1059 bp
<b>OTI Disclaimer:</b>	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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></p>
<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_053676.2</a> , <a href="#">NP_446128.1</a>
<b>RefSeq Size:</b>	1774 bp
<b>RefSeq ORF:</b>	1062 bp
<b>Locus ID:</b>	114211
<b>Cytogenetics:</b>	16q11
<b>MW:</b>	39.8 kDa
<b>Gene Summary:</b>	G-protein coupled receptor for melatonin; involved in circadian rhythm and reproductive function [RGD, Feb 2006]