

Product datasheet for **MG224599**

Mtnr1a (NM_008639) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mtnr1a (NM_008639) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Mtnr1a
Synonyms:	MelR; MR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG224599 representing NM_008639 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGAAGGGCAATGTCAGCGAGCTGCTCAATGCCACTCAGCAGGCTCCAGGCGGGGGAGGGAGGGAGAC
CACGACCGTCCTGGCTGGCCTCTACACTGGCCTTCATCCTCATCTTTACCATCGTGGTGGACATTCTGGG
CAACCTGCTGGTCATCCTGTCTGTGTACCGCAACAAGAAGCTCAGGAAGCTCAGGGAATATATTTGTGGTG
AGTTTAGCTGTGGCAGACCTCGTGGTGGCTGTTACCCTTATCCCTTGGTGTGACATCTATCCTTAACA
ACGGATGGAATCTGGGATATCTACTGTCAAGTCAGCGCATTCTAATGGGCTTGAGTGTATCGGCTC
GATATTCAACATCACGGGATCGCTATGAACCGTTACTGTACATTTGCCACAGCCTCAAGTACGACAAA
ATATACAGTAACAAGAACTCGCTCTGCTACGTGTTCTGATATGGATGCTGACACTCATCGCCATCATGC
CCAACCTGCAAACCGGAACACTCCAGTACGATCCCCGGATCTACTCCTGTACCTTCAACCCAGTCTGTGAG
CTCAGCGTACACGATAGCAGTGGTGGTTTTCCATTTTCATCGTGCCTATGATTATTGTGATCTTCTGCTAC
TTAAGGATATGGGTCCTGGTCTCAGGTGACGCGAGGGTGAACCCGACAACAAGCCAAACTGAAGC
CCCAGGACTTCAGGAACCTTGTACCATGTTCTGATGTTTTGTACTTTTTGCCATTTGTTGGGCCCACT
CAACCTCATAGGTCTTATTGTGGCCTCAGACCTGCCACCATGGTCCCCAGGATCCCAGAGTGGCTGTTT
GTGGCTAGTTACTACCTGGCGTACTTCAACAGCTGCCTCAACGCAATTATACGGACTACTGAATCAGA
ATTTCAGAAAGGAATACAAAAGATTATTGTCTGTTGTGCACAGCAAGATGTTCTTTGTGGAGAGTTT
AAATGAAGAAGCAGATAAGATTAATGTAAGCCCTCTCCACTAATACCCAATAATAACTTAATAAAGGTG
GACTCTGTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG224599 representing NM_008639
 Red=Cloning site Green=Tags(s)

MKGNVSELLNATQQAPGGGEGRRPRPSWLASTLAFILIFTIVVDILGNLLVILSVYRNKKLRNSGNIFVV
 SLAVADLVVAVYPYPLVLTSLNNGWNLGYLHCQVSAFLMGLSVIGSIFNITGIAMNRYCYICHSLKYDK
 IYSNKNSLCYVFLIWMLTLIAIMPNLQTGLQYDPRIYSCTFTQSVSSAYTIAVVVFHFIVPMIIVIFCY
 LRIWVLVLQVRRRVKPDNPKLKPQDFRNFVTMFVVFVLFVLAICWAPLNLIGLIVASDPATMVPRIPEWLF
 VASYLLAYFNLSCLNAIIYGLLNQNFKEYKKIIVSLCTAKMFFVESSNEEADKIKCKPSPLIPNNLIKV
 DSV

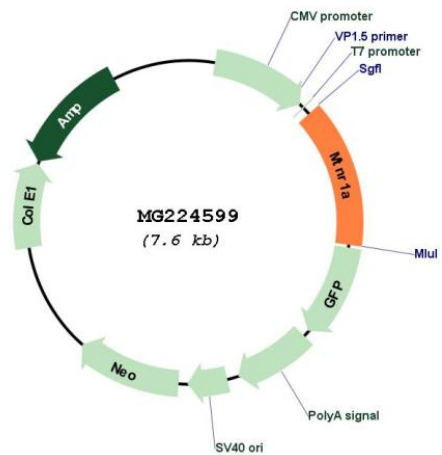
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_008639

ORF Size:	1059 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:	NM_008639.3
RefSeq Size:	1503 bp
RefSeq ORF:	1062 bp
Locus ID:	17773
UniProt ID:	Q61184
Cytogenetics:	8 24.95 cM
Gene Summary:	High affinity receptor for melatonin. Likely to mediate the reproductive and circadian actions of melatonin. The activity of this receptor is mediated by pertussis toxin sensitive G proteins that inhibit adenylate cyclase activity (By similarity).[UniProtKB/Swiss-Prot Function]