

Product datasheet for **SC116399**

Melatonin Receptor 1A (MTNR1A) (NM_005958) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Melatonin Receptor 1A (MTNR1A) (NM_005958) Human Untagged Clone
Tag:	Tag Free
Symbol:	Melatonin Receptor 1A
Synonyms:	MEL-1A-R; MT1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_005958, RT-PCR generated
 ATGCAGGGCAACGGCAGCGCGCTGCCAACGCCTCCCAGCCGTGCTCCGCGGGGACGGC
 GCGCGGCCCTCGTGGCTGGCGTCCGCCCTGGCCTGCGTCCTCATCTTCACCATCGTGGTG
 GACATCCTGGGCAACCTCCTGGTACCTGTTCGGTGTATCGGAACAAGAAGCTCAGGAAC
 GCAGGAAACATCTTTGTGGTGAGCTTAGCGGTGGCAGACCTGGTGGTGGCCATTTATCCG
 TACCCGTTGGTGCTGATGTCGATATTTAAACAACGGGTGGAACCTGGGCTATCTGCACTGC
 CAAGTCAGTGGGTTCTGATGGGCTGAGCGTCATCGGCTCCATATTCAACATCACCGGC
 ATCGCCATCAACCGCTACTGCTACATCTGCCACAGTCTCAAGTACGACAAACTGTACAGC
 AGCAAGAACTCCCTCTGCTACGTGCTCCTCATATGGCTCCTGACGCTGGCGGCCGCTCTG
 CCCAACCTCCGTGCAGGGACTCTCCAGTACGACCCGAGGATCTACTCGTGCACCTTCGCC
 CAGTCCGTGAGTCCGCCTACACCATCGCCGTGGTGGTTTTCCACTTCTCGTCCCATG
 ATCATAGTCATCTTCTGTTACCTGAGAATATGGATCCTGGTTCTCCAGGTGACAGAGG
 GTGAAACCTGACCGCAAACCCAAACTGAAACCACAGGACTTCAGGAATTTTGTACCATG
 TTTGTGGTTTTTGTCTTTTTGCCATTTGCTGGGCTCCTCTGAACTTCATTGGCCTGGCC
 GTGGCCTCTGACCCCGCCAGCATGGTGCCTAGGATCCCAGAGTGGCTGTTTGTGGCCAGT
 TACTACATGGCGTATTTCAACAGCTGCTCAATGCCATTATACGGGCTACTGAACAA
 AATTTTCAGGAAGGAATACAGGAGAATTATAGTCTCGCTCTGTACAGCCAGGGTGTCTTT
 GTGGACAGCTCTAACGACGTGGCCGATAGGGTTAAATGAAACCGTCTCCACTGATGACC
 AACAAATGTAGTAAAGGTGGACTCCGTTTAA



[View online »](#)

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_005958 unedited
 GGCCGAGGTCAAGATTTTGTATACGACTCACTATAGGGCGGCCGCCAGTGTGATGGAATC
 TGCAGAATTTCGGCTTGACGCGAACAGGGACCATGCAGGGCAACGGCAGCGCGCTGCCAA
 CGCCTCCCAGCCCGTGTCCGCGGGGACGGCGCGGCCCTCGTGGCTGGCGTCCGCCCT
 GGCCTGCGTCCTCATCTTACCATCGTGGTGGACATCCTGGGCAACCTCCTGGTCATCCT
 GTGGGTGATCGGAACAAGAAGCTCAGGAACGCAGGAAACATCTTTGTGGTGAGCTTAGC
 GGTGGCAGACCTGGTGGTGGCCATTTATCCGTACCCGTTGGTGGTGTGATGTCGATATTTAA
 CAACGGGTGGAACCTGGGCTATCTGCACTGCCAAGTCAGTGGGTTCTGATGGGCCTGAG
 CGTCATCGGCTCCATATTCAACATCACCCGCATCGCCATCAACCGCTACTGCTACATCTG
 CCACAGTCTCAAGTACGACAAACTGTACAGCAGCAAGAACTCCCTCTGCTACGTGCTCCT
 CATATGGCTCCTGACGCTGGCGGCCGCTCCTGCCAACCTCCGTGCAGGGACTCTCCAGTA
 CGACCCGAGGATCTACTCGTGCACCTTCGCCAGTCCGTGAGCTCCGCCTACACCATCGC
 CGTGGGTGGTTTTCCACTTCTCGTCCCATGATCATAGTCATCTTCTGTACCTGAGAA
 TATGGATCCTGGTCTCCAGGTCAGACAGAGGGTAAAACCTGACCGCANACCCAAACTGA
 NACCACAGGACTTCAGGAATTTTGTCCCATGTTTGTGGGTTTTTGCCTTTTTGCCATTT
 GCTGGGCTCCTCTGAACCTATTGCCTGGCCGTGGCCTCTGACCCCGCAGCATGTGCCCT
 AGATCCCAGATGGCN

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_005958 unedited
 GGGGACTAGGAATGAAAACCTCCATGCCAGNAAAGCACTGGGGNAGGGTACAGGGCTGC
 CACCCGGGATCTGTTTCAAGAAACAGCTATGACCGCGCCGCAATCTAGAGTCGACAAGCT
 TGATATCGGTACCGAGCTCGGATCCACTAGTAACGGCCGCCAGTGTGCTGGAATTCGGCT
 TTTAAACGGAGTCCACCTTTACTACATTATTGTTGGTCATCAGTGGAGACGGTTTTCCATT
 TAACCCTATCGGCCACGTGTTAGAGCTGTCCACAAGAACACCTGGCTGTACAGAGCG
 AGACTATAAATTCTCCTGTATTCTTCTGAAATTTTGGTTCAGTAGCCCGTATATAATGG
 CATTGAAGCAGCTGTTGAAATACGCCATGTAGTAACTGGCCACAAACAGCCACTCTGGGA
 TCCTAGGCACCATGCTGGCGGGGTGAGAGGCCACGGCCAGGCCAATGAAGTTCAGAGGAG
 CCCAGCAAATGGCAAAAAGGACAAAAACCAAAACATGGTGACCAAATTCCTGAAGTCTCT
 GTGGTTTTCAGTTTGGGTTTGGGTCAGGTTTACCCTCTGTCTGACCTGGAGAACCAGGA
 TCCATATTCTCAGGTAACAAGAGATGACTATGATCATGGGGACGAGGAAGTGAAAACCA
 CCCCAGGATGGTGAAGCGGACCTGACNGACTGGGCGAAAAGTGCACAAATAAATCCTCGG
 GTCCGACTGGGAGAGTCCCTGCACGGGAGGTTGGGCCAGGACGGCCCGCCACCGTCAGGA
 GCCCTTATGAAGAGCACGTACCAAAAAGGAGTTCCTTGCTGCTGGCAAGTTTTGGTGGACT
 TGAATAATGGGCAAAAGTATAAATAGCGGG

Restriction Sites:

Please inquire

ACCN:

NM_005958

Insert Size:

1300 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:	<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_005958.3 , NP_005949.1
RefSeq Size:	1105 bp
RefSeq ORF:	1053 bp
Locus ID:	4543
UniProt ID:	P48039
Cytogenetics:	4q35.2
Protein Families:	Druggable Genome, GPCR, Transmembrane
Protein Pathways:	Neuroactive ligand-receptor interaction
Gene Summary:	<p>This gene encodes one of two high affinity forms of a receptor for melatonin, the primary hormone secreted by the pineal gland. This receptor is a G-protein coupled, 7-transmembrane receptor that is responsible for melatonin effects on mammalian circadian rhythm and reproductive alterations affected by day length. The receptor is an integral membrane protein that is readily detectable and localized to two specific regions of the brain. The hypothalamic suprachiasmatic nucleus appears to be involved in circadian rhythm while the hypophysial pars tuberalis may be responsible for the reproductive effects of melatonin. [provided by RefSeq, Jul 2008]</p>