

Product datasheet for **SC303711**

Melatonin Receptor 1B (MTNR1B) (NM_005959) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Melatonin Receptor 1B (MTNR1B) (NM_005959) Human Untagged Clone
Tag:	Tag Free
Symbol:	Melatonin Receptor 1B
Synonyms:	FGQTL2; MEL-1B-R; MT2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_005959 edited
 GTCTGCGATGTCAGAGAACGGCTCCTTCGCCAACTGCTGCGAGGCGGGCGGTGGGCAGT
 GCGCCCGGGCTGGTCGGGGGCTGGCAGCGCGGCCCTCCAGGACCCCTCGACCTCCCTG
 GGTGGCTCCAGCGCTGTCCGCGGTGCTCATCGTACCACCGCCGTGGACGTCGTGGGCAA
 CCTCCTGGTGATCCTCTCCGTGCTCAGGAACCGCAAGCTCCGGAACGCAGGTAATTTGTT
 CTTGGTGAGTCTGGCATTGGCTGACCTGGTGGTGGCCTTCTACCCCTACCCGCTAATCCT
 CGTGGCCATCTTCTATGACGGCTGGGCCCTGGGGGAGGAGCACTGCAAGGCCAGCGCCTT
 TGTGATGGGCTGAGCGTCATCGGCTCTGTCTTCAATATCACTGCCATCGCCATTAACCG
 CTAAGTACTGATCTGCCACAGCATGGCCTACCACCGAATCTACCCGGCTGGCACACCCC
 TCTGCACATCTGCCTCATCTGGCTCCTCACCGTGGTGGCCTTGTGCCAACTTCTTTGT
 GGGTCCCTGGAGTACGACCCACGCATCTATTCCTGCACCTTCATCCAGACCGCCAGCAC
 CAGTACACGGCGCAGTGGTGGTCCACTTCCCTCCCTATCGCTGTCGTGTCCTT
 CTGCTACCTGCGCATCTGGGTGCTGGTGTTCAGGCCCGCAGGAAAGCCAAGCCAGAGAG
 CAGGCTGTGCCTGAAGCCAGCGACTTGCAGGCTTTCTAACCATGTTTGTGGTGTTTGT
 GATCTTTGCCATCTGCTGGGCTCCACTTAACTGCATCGGCCTCGCTGTGGCCATCAACCC
 CCAAGAAATGGCTCCCCAGATCCCTGAGGGGCTATTTGTCACTAGCTACTACTGGCTTA
 TTTCAACAGCTGCCTGAATGCCATTGTCTATGGGCTCTTGAACCAAACTTCCGCAGGGA
 ATACAAGAGGATCCTCTTGGCCCTTTGGAACCCACGGCACTGCATTCAAGATGCTTCCAA
 GGCAGCCACGCGGAGGGGCTGCAGAGCCAGCTCCACCCATCATTGGTGTGCAGCACCA
 GGCAGATGCTCTTAGCCTGGATCTGAGGCACACCAGCAGCATGACAACTCATGAAATG



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_005959 unedited</p> <pre> NNNNNNNNNGGGTCAGACTTTGTAAAACAATCACTAAGGCGGCCGCGACATCGATGTCTG CGAGTCAGAAAACGGCTCCTTCGCCAATTGCTGCGAGGCGGGCGGGTGGGCAGTGCGCC CGGGCTGGTCGGGGGCTGGCAGCGCGCGGCCCTCCAGGACCCCTCGACCTCCCTGGGTGG CTCCAGCGCTGTCCGCGGTGCTCATCGTACCACCGCGTGGACGTCGTGGGCAACCTCC TGGTGATCCTCTCCGTGCTCAGGAACCGCAAGCTCCGGAACGCAGTAATTTGTTCTTGG TGAGTCTGGCATTGGCTGACCTGGTGGTGGCCTTCTACCCCTACCCGCTAATCCTCGTGG CCATCTTCTATGACGGCTGGGCCCTGGGGGAGGAGCACTGCAAGGCCAGCGCCTTTGTGA TGGGCCTGAGCGTCATCGGCTCTGTCTTCAATATCACTGCCATCGCCATTAACCGCTACT GCTACATCTGCCACAGCATGGCCTACCACCGAATCTACCGGCGCTGGCACACCCCTCTGC ACATCTGCCTCATCTGGCTCCTCACCGTGGTGGCCTTGTGCCAACTTCTTTGTGGGGT CCCTGGAGTACGACCCACGCATCTATTCTGCACCTTCATCCAGACCGCCAGCACCCAGT ACACGGCGGCAGTGGTGGTCATCCACTTCTCCTCCCTATCGCTGTCGTGCTCTTCTGCT ACCTGCGCATCTGGGTGCTGGTGTTCANGCCCGCNAGAAAGCCAAGCCAGAGAGCANGC TGTGCCTGAAGCCAGCGACTTGGCGAGCTTTCTAACCATGTTTGTGGTGTGTGTGATCTT TGCCATCTGCTGGGCTCCAC </pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' genomic read for NM_005959 unedited</p> <pre> CATGGGTGGCAATTCAGGCCAGGAAGCATGGGGAGGGTCACAGGAGCCCCGGGATCTGT CAGAAACAGCTATGACCGCGGCCCAATCTAGAGTCGAGCATTTTCATGAGTTTGCATGC TGCTGGTGTGCCCTCAGATCCAGGCTAGAGAGCATCTGCCTGGTGTGCACACCAATGATG GGTGGAGCTGGGCTCTGCAGCCCTCCGCGTGGCTGCCCTTGGAAAGCATTTGAATGCAG TGCCGTGGGTTCCAAAGGGCCAAGAGGATCCTCTTGTATTCCCTGCGGAAGTTTTGGTTC AAGAGCCCATAGACAATGGCATTTCAGGCAGCTGTTGAAATAAGCCAGTAAGTAGCTAGTG ACAAATAGCCCCCTCAGGGATCTGGGGAGCCATTTCTTGGGGGTTGATGGCCACAGCGAGG CCGATGCAGTTAAGTGGAGCCCAGCAGATGGCAAAGATCACAAACACCACAAACATGGTT AGAAAGCTCCGCAAGTCGCTGGGCTTCAGGCACAGCCTGCTCTCTGGCTTGGCTTTCCTG CGGGCTGAAGCACCAGCACCCAGATGCGCAGGTAGCAGAAGGACACGACAGCGATAGGG AGGAANGAAGTGGGATGACCACCACTGCCGCCGTGACTGGGTGCTGGCGGTCTGGATGA AGGTGCANGAATAGATGCGTGGGTGCTACTCCCAGGACCCACAAGAAGTTGGGCAGCA AGGCCACCACGGTTGAGGAGCCCGAATGAGGCAGAAGTGCAGAGGGGTGTGCCACCGCC CGGTAGAATTCGTGGGTAGGCCTGCTGTGGGCAATGTA </pre>
Restriction Sites:	Please inquire
ACCN:	NM_005959
Insert Size:	1100 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).
OTI Annotation:	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
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_005959.3 , NP_005950.1
RefSeq Size:	1662 bp
RefSeq ORF:	1089 bp
Locus ID:	4544
UniProt ID:	P49286
Cytogenetics:	11q14.3
Protein Families:	Druggable Genome, 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 gene product is an integral membrane protein that is a G-protein coupled, 7-transmembrane receptor. It is found primarily in the retina and brain although this detection requires RT-PCR. It is thought to participate in light-dependent functions in the retina and may be involved in the neurobiological effects of melatonin. [provided by RefSeq, Jul 2008]</p>