

Product datasheet for **SC318061**

Melatonin Related Receptor (GPR50) (NM_004224) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Melatonin Related Receptor (GPR50) (NM_004224) Human Untagged Clone
Tag:	Tag Free
Symbol:	Melatonin Related Receptor
Synonyms:	H9; Mel1c
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

Fully Sequenced ORF: >OriGene sequence for NM_004224 edited
 TTAACGATCCCCAGGAGCAACATGGGGCCACCCTAGCGGTTCCCACCCCTATGGCTGT
 ATTGGCTGTAAGCTACCCAGCCAGAATACCCACCGGCTCTAATCATCTTTATGTTCTGC
 GCGATGGTTATCACCATCGTTGTAGACCTAATCGGCAACTCCATGGTCATTTTGGCTGTG
 ACGAAGAACAAGAAGCTCCGGAATTCTGGCAACATCTTCGTAGTCAGTCTCTCTGTGGCC
 GATATGCTGGTGGCCATCTACCCATACCCTTTGATGCTGCATGCCATGTCCATTGGGGGC
 TGGGATCTGAGCCAGTTACAGTGCCAGATGGTCGGGTTTCATCACAGGGCTGAGTGTGGTC
 GGCTCCATCTTCAACATCGTGGCAATCGCTATCAACCGTTACTGCTACATCTGCCACAGC
 CTCAGTACGAACGGATCTTCAGTGTGCGCAATACCTGCATCTACCTGGTCATCACCTGG
 ATCATGACCGTCTGGCTGTCCTGCCAACATGTACATTGGCACCATCGAGTACGATCCT
 CGCACCTACACCTGCATCTTCAACTATCTGAACAACCCTGTCTTCACTGTTACCATCGTC
 TGCATCCGCTTCGTCCTCCCTCCTCATCGTGGGTTTCTGCTACGTGAGGATCTGGACC
 AAAGTGTGGCGGCCGTGACCTGCAGGGCAGAATCCTGACAACCAACTGTCTGAGGTT
 CGCAATTTCTAACCATGTTTGTGATCTTCTCCTCTTTGCAGTGTGCTGGTGCCTATC
 AACGTGCTCACTGTCTTGGTGGCTGTCAGTCCGAAGGAGATGGCAGGCAAGACCCCAAC
 TGGCTTTATCTTGACGCTACTTTCATAGCTACTTCAACAGCTGCCTCAACGCTGTGATC
 TACGGGCTCCTCAATGAGAATTTCCGAAGAGAATACTGGACCATCTTCCATGCTATGCGG
 CACCCTATCATATTCTTCTCTGGCCTCATCAGTGATATTCGTGAGATGCAGGAGGCCGT
 ACCCTGGCCCGCGCCCGTGCCTATGCTCGCGACCAAGCTCGTGAACAAGACCGTGCCCAT
 GCCTGTCTGTGTGGAGGAAACCCCGATGAATGTCCGGAATGTTCCATTACCTGGTGAT
 GCTGCAGCTGGCCACCCGACCGTGCCTCTGGCCACCCTAAGCCCCATCCAGATCCTCC
 TCTGCCTATCGCAAACTGCCTCTACCCACCACAAGTCTGTCTTTAGCCACTCCAAGGCT
 GCCTCTGGTCACTCAAGCCTGTCTCTGGCCACTCCAAGCCTGCCTCTGGTCAACCCAAAG
 TCTGCCACTGTCTACCCTAAGCCTGCCTCTGTCCATTTCAAGGCTGACTCTGTCCATTTT
 AAGGGTACTCTGTCCATTTCAAGCCTGACTCTGTTCATTTCAAGCCTGCTTCCAGCAAC
 CCCAAGCCATCACTGGCCACCATGTCTCTGCTGGCAGCCACTCCAAGTCTGCCTTCAGT
 GCTGCCACCAGCCACCCTAAACCCACCCTGGCCACATCAAGCCAGCTACCAGCCATGCT
 GAGCCACCAGCTGCTGACTATCCCAAGCCTGCCACTACCAGCCACCCTAAGCCCGCTGCT
 GCTGACAACCCTGAGCTCTCTGCCTCCCATTGCCCGAGATCCCTGCCATTGCCACCCT
 GTGTCTGACGACAGTGACCTCCCTGAGTCGGCCTCTAGCCCTGCCGCTGGGCCACCAAG
 CCTGCTGCCAGCCAGCTGGAGTCTGACACCATCGCTGACCTTCTGACCCTACTGTAGTC
 ACTACCAGTACCAATGATTACCATGATGTCGTGGTTGTTGATGTTGAAGATGATCCTGAT
 GAAATGGCTGTGTGAAA

5' Read Nucleotide Sequence: >OriGene 5' read for NM_004224 unedited
 CACATTTTGTNTNNAACTCACTATAGGGCGGCCGGAATTCAGATCTGGTACCGAGCTCG
 GATCCACTAGTAACGGCCGCCAGTGTGCTGGAATTCGGCTTTAACGATCCCAGGAGCAA
 CATGGGGCCACCCCTAGCGGTTCCACCCCTATGGCTGTATTGGCTGTAAAGTACCCCA
 GCCAGAATACCCACCGCTCTAATCATCTTTATGTTCTGCGCGATGGTTATCACCATCGT
 TGTAGACCTAATCGGCAACTCCATGGTCATTTTGGCTGTGACGAAGAACAAGAAGCTCCG
 GAATTCGGCAACATCTTCGTAGTCAGTCTCTCTGTGGCCGATGCTGGTGGCCATCTA
 CCCATACCCTTTGATGCTGCATGCCATGTCCATTGGGGGCTGGGATCTGAGCCAGTTACA
 GTGCCAGATGGTCGGGTTTCATCACAGGGCTGAGTGTGGTGGCTCCATCTTCAACATCGT
 GGCAATCGCTATCAACCGTTACTGCTACATCTGCCACAGCCTCCAGTACGAACGGATCTT
 CAGTGTGCGCAATAACTGCATCTACCTGGTCATCACCTGGATCATGACCGGTCTGGCTGT
 CCTTGCCAACATGGTACATTGGACCCTTTCAATTAGAATCTTGAAACTAACACGTGGAT
 TTCAATATTTAAACACCTGGTCTCCCTGGAACCAACGTCGGAACCGTTTTCCCTCCT
 TCCTAATCGGGGTTCCGCCACGTGAAGTTCGGACCAAGG

Restriction Sites: Please inquire
ACCN: NM_004224

Insert Size:	1900 bp
OTI Disclaimer:	<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 custsupport@origene.com 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. More info</p>
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_004224.2 , NP_004215.2
RefSeq Size:	2010 bp
RefSeq ORF:	1854 bp
Locus ID:	9248
UniProt ID:	Q13585
Cytogenetics:	Xq28
Protein Families:	Druggable Genome, GPCR, Transmembrane
Protein Pathways:	Neuroactive ligand-receptor interaction
Gene Summary:	This gene product belongs to the G-protein coupled receptor 1 family. Even though this protein shares similarity with the melatonin receptors, it does not bind melatonin, however, it inhibits melatonin receptor 1A function through heterodimerization. Polymorphic variants of this gene have been associated with bipolar affective disorder in women. [provided by RefSeq, Jan 2010]