

Product datasheet for RC217839L3

OriGene Technologies, Inc.

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Melatonin Related Receptor (GPR50) (NM 004224) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Melatonin Related Receptor (GPR50) (NM_004224) Human Tagged Lenti ORF Clone

Tag: Myc-DDK

Symbol: Melatonin Related Receptor

Synonyms: H9; Mel1c

Mammalian Cell Puromycin

Selection:

Vector:

pLenti-C-Myc-DDK-P2A-Puro (PS100092)

E. coli Selection: Chloramphenicol (34 ug/mL)

ORF Nucleotide The ORF insert of this clone is ex

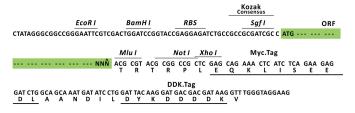
Sequence:

The ORF insert of this clone is exactly the same as (RC217839).

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





 $[\]ensuremath{^*}$ The last codon before the Stop codon of the ORF.

ACCN: NM_004224

ORF Size: 1851 bp





OTI Disclaimer:

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 customercom or by calling 301.340.3188 option 3 for pricing and delivery.

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. <u>More info</u>

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:

- 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: <u>NM 004224.2</u>

 RefSeq Size:
 2020 bp

 RefSeq ORF:
 1854 bp

 Locus ID:
 9248

 UniProt ID:
 Q13585

Cytogenetics: Xq28

Protein Families: Druggable Genome, GPCR, Transmembrane

MW: 67.4 kDa

Gene Summary:

Protein Pathways:

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]

Neuroactive ligand-receptor interaction