

## **Product datasheet for PH310385**

## OriGene Technologies, Inc.

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## Melatonin Receptor 1A (MTNR1A) (NM\_005958) Human Mass Spec Standard

**Product data:** 

**Product Type:** Mass Spec Standards

**Description:** MTNR1A MS Standard C13 and N15-labeled recombinant protein (NP\_005949)

Species:HumanExpression Host:HEK293

**Expression cDNA Clone** 

ne RC210385

or AA Sequence:

Predicted MW:

39.4 kDa

Protein Sequence: >RC210385 protein sequence

Red=Cloning site Green=Tags(s)

MQGNGSALPNASQPVLRGDGARPSWLASALACVLIFTIVVDILGNLLVILSVYRNKKLRNAGNIFVVSLA VADLVVAIYPYPLVLMSIFNNGWNLGYLHCQVSGFLMGLSVIGSIFNITGIAINRYCYICHSLKYDKLYS SKNSLCYVLLIWLLTLAAVLPNLRAGTLQYDPRIYSCTFAQSVSSAYTIAVVVFHFLVPMIIVIFCYLRI WILVLQVRQRVKPDRKPKLKPQDFRNFVTMFVVFVLFAICWAPLNFIGLAVASDPASMVPRIPEWLFVAS YYMAYFNSCLNAIIYGLLNQNFRKEYRRIIVSLCTARVFFVDSSNDVADRVKWKPSPLMTNNNVVKVDSV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK

**Purity:** > 80% as determined by SDS-PAGE and Coomassie blue staining

**Concentration:** >0.05 μg/μL as determined by microplate BCA method

Labeling Method: Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine

**Buffer:** 25 mM Tris-HCl, 100 mM glycine, pH 7.3

**Storage:** Store at -80°C. Avoid repeated freeze-thaw cycles.

**Stability:** Stable for 3 months from receipt of products under proper storage and handling conditions.

**RefSeq:** NP 005949

RefSeq Size: 1105 RefSeq ORF: 1050

**Synonyms:** MEL-1A-R; MT1

**Locus ID:** 4543





UniProt ID: P48039

**Cytogenetics:** 4q35.2

**Summary:** 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-

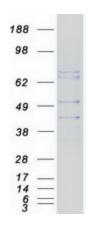
transmembrane receptor that is responsible for melatonin effects on mammalian circadian rhythm and reproductive alterations affected by day length. The receptor is an integral membrane protein that is readily detectable and localized to two specific regions of the brain. The hypothalamic suprachiasmatic 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]

**Protein Families:** Druggable Genome, GPCR, Transmembrane

**Protein Pathways:** Neuroactive ligand-receptor interaction

## **Product images:**



Coomassie blue staining of purified MTNR1A protein (Cat# [TP310385]). The protein was produced from HEK293T cells transfected with MTNR1A cDNA clone (Cat# [RC210385]) using MegaTran 2.0 (Cat# [TT210002]).