

# Product Information

## MemDX™ Membrane Protein Human MTNR1B (Melatonin receptor 1B) Full Length

Cat. No.: **MPC0298K**

This product is for research use only and is not intended for diagnostic use.

This product is a 40.1 kDa Human MTNR1B membrane protein expressed in Baculovirus/Insect expression system. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

### Product Specifications

#### Host Species

Human

#### Target Protein

MTNR1B

#### Protein Length

Full length

#### Protein Class

GPCR

#### Molecular Weight

40.1 kDa

#### TMD

7

#### Sequence

MSENGSFANCCEAGGWAVRPGWSGAGSARPSRTPRPPWVAPALSAVLIVT  
TAVDVVGNLLVILSVLRNRKLRNAGNLFVSLALADLVVAFYPYPLILVA  
IFYDGWALGEEHCKASAFVMGLSVIGSVFNITAIINRYCYICHSMAYHR  
IYRRWHTPLHICLIWLLTVVALLPNFFVGSLEYDPRIYSCTFIQTASTQY  
TAAVVVIHFLLPIAVVSFCYLRIWVLVLQARRKAKPESRLCLKPSDLRSF  
LTMFVVFVIFAICWAPLNCIGLAVAINPQEMAPQIPEGLFVTSYLLAYFN  
SCLNAIVYGLLNQNFREYKRILLALWNP RHCIQDASKGSHAEG LQSPAP  
PIIGVQH QADAL

### Product Description

#### Expression Systems

Baculovirus/Insect expression system

#### Tag

Flag tag at N-terminal and 10xHis tag at C-terminal

**Protein Format**

Detergent or based on specific requirements

**Form**

Liquid

**Storage**

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -70°C or lower. Avoid freeze/thaw cycles.

**Target****Target Protein**

MTNR1B

**Full Name**

Melatonin receptor 1B

**Introduction**

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.

**Alternative Names**

MT2; FGQTL2; MEL-1B-R; melatonin receptor type 1B; mel1b receptor; melatonin receptor 1B variant b; melatonin receptor MEL1B; MTNR1B; Melatonin receptor 1B

**Gene ID**

[4544](#)

**UniProt ID**

[P49286](#)