

# Product Information

## **MemDX™ Membrane Protein Human HTR3D (5-hydroxytryptamine receptor 3D) Expressed *in vitro* E.coli expression system for Antibody Discovery, Partial (221-454aa)**

Cat. No.: **MPX0848K**

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

This product is a 41.5kDa Human HTR3D membrane protein expressed *in vitro* E.coli 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

HTR3D

#### Protein Length

Partial (221-454aa)

#### Protein Class

Ion channel, Transport

#### Molecular Weight

41.5kDa

#### TMD

4

#### Sequence

VAIRRRCRPSPYVVNFLVPSGILIAIDALSFYLPLESGNCAPFKMTVLLGYSVFLLMMNDLLPATSTSSHASLVAPLALMQTPLPAGVY

### Product Description

#### Expression Systems

*in vitro* E.coli expression system

#### Tag

6xHis and SUMO tag at the N-terminus

#### Protein Format

Soluble

#### Form

Liquid

**Purity**

>90% as determined by SDS-PAGE.

**Buffer**

Tris/PBS-based buffer, 6% Trehalose, pH 8.0

**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**

HTR3D

**Full Name**

5-hydroxytryptamine receptor 3D

**Introduction**

The protein encoded this gene belongs to the ligand-gated ion channel receptor superfamily. This gene encodes subunit D of the type 3 receptor for 5-hydroxytryptamine (serotonin), a biogenic hormone that functions as a neurotransmitter, a mitogen and a hormone. This hormone has been linked to neuropsychiatric disorders, including anxiety, depression, and migraine. Serotonin receptors causes fast and depolarizing responses in neurons following activation. The genes encoding subunits C, D and E of this type 3 receptor form a cluster on chromosome 3. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.

**Alternative Names**

HTR3D; 5HT3D; 5-hydroxytryptamine (serotonin) receptor 3 family member D; 5-hydroxytryptamine (serotonin) receptor 3D, ionotropic; 5-hydroxytryptamine receptor 3 subunit D; serotonin 5-HT-3D receptor; serotonin receptor 3D; 5-hydroxytryptamine receptor 3D

**Gene ID**

[200909](#)

**UniProt ID**

[Q70Z44](#)