

## Product Information

### MemDX™ Membrane Protein Human GNRHR2 (Gonadotropin releasing hormone receptor 2 (pseudogene)) Expressed *in vitro* *E.coli* expression system, Full Length

Cat. No.: **MPX2151K**

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

This product is a Human GNRHR2 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

GNRHR2

##### Protein Length

Full Length

##### Protein Class

GPCR

##### TMD

5

##### Sequence

MSAGNGTPWGSAAGEEVWAGSGVEVEGSELPTFSAAKVRVGVTIVLFVSSAGGNLAVLWSVTRREPSQLRSPVRRLFIHLLAA

#### Product Description

##### Expression Systems

*in vitro* *E.coli* expression system

##### Tag

10xHis tag at the N-terminus

##### Protein Format

Soluble

##### Form

Liquid or Lyophilized powder

##### 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**

GNRHR2

#### **Full Name**

Gonadotropin releasing hormone receptor 2 (pseudogene)

#### **Introduction**

In non-hominoid primates and non-mammalian vertebrates, the gonadotropin releasing hormone 2 receptor gene (GnRHR2) encodes a seven-transmembrane G-protein coupled receptor. However, in human, the corresponding reading frame contains a premature stop codon, which has been suggested to encode a selenocysteine residue, but there is no solid evidence for selenocysteine incorporation (PMID: 12538601). It appears that the human GnRHR2 transcription occurs but the gene does not likely produce a functional multi-transmembrane protein. A non-transcribed pseudogene of GnRHR2 is located on chromosome 14. Multiple alternatively spliced transcript variants have been found for this gene.

#### **Alternative Names**

GNRHR2; GnRH-II-R; GnRH receptor II 5TM; Type II GnRH receptor; gonadotropin-releasing hormone (type 2) receptor 2, pseudogene; Gonadotropin releasing hormone receptor 2 (pseudogene)

#### **Gene ID**

[114814](#)

#### **UniProt ID**

[Q96P88](#)