

# Product Information

## MemDX™ Membrane Protein Human CASR (Calcium sensing receptor) for Antibody

### Discovery

Cat. No.: **MP0160X**

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

This product is a 120.6 kDa Human CASR membrane protein expressed in *in vitro* wheat germ 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

CASR

#### Protein Length

Full-length

#### Molecular Weight

120.6 kDa

#### TMD

7

#### Sequence

MAFYSCCWVLLALTWHTSAYGPDQRAQKKGDIILGGLFPIHFGVAAKDQDLKSRPESVEICIRYNFRGFRWLQAMIFAIEEINSSPAL

### Product Description

#### Application

Antibody Production

#### Expression Systems

*in vitro* wheat germ expression system

#### Tag

NO

#### Protein Format

Liposome

#### Form

Liquid

#### **Purification**

None

#### **Buffer**

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer

#### **Storage**

Store at +4°C for up to one week or several months at -80°C

### **Target**

#### **Target Protein**

CASR

#### **Full Name**

Calcium sensing receptor

#### **Introduction**

The protein encoded by this gene is a plasma membrane G protein-coupled receptor that senses small changes in circulating calcium concentration. The encoded protein couples this information to intracellular signaling pathways that modify parathyroid hormone secretion or renal cation handling, and thus this protein plays an essential role in maintaining mineral ion homeostasis. Mutations in this gene are a cause of familial hypocalciuric hypercalcemia, neonatal severe hyperparathyroidism, and autosomal dominant hypocalcemia

#### **Alternative Names**

CAR; FHH; FIH; GPRC2A; HHC; HHC1; MGC138441; NSHPT; PCAR1; extracellular calcium-sensing receptor; parathyroid Ca(2+)-sensing receptor 1

#### **Gene ID**

[846](#)

#### **UniProt ID**

[P41180](#)