

## Product Information

### **MemDX™ Membrane Protein Human CASR (Calcium sensing receptor) Expressed in *E.coli* with GST tag at the N-terminus for Antibody Discovery, Partial (20-612aa)**

Cat. No.: **MPX4467K**

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

This product is a 93.6kDa Human CASR membrane protein expressed in *E.coli*. 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

Partial (20-612aa)

##### Protein Class

GPCR

##### Molecular Weight

93.6kDa

##### TMD

7

##### Sequence

YGPDQRAQKKGDIILGGLFPIHFGVAAKDQDLKSRPESVECI RYNFRGFRWLQAMIFAIEEINSSPALLPNLTLGYRIFDTCNTVSKAL

#### Product Description

##### Expression Systems

*E.coli*

##### Tag

GST tag at the N-terminus

##### Protein Format

Soluble

##### Form

Liquid or Lyophilized powder

**Purity**

>90% as determined by SDS-PAGE

**Buffer**

Tris-based buffer, 50% glycerol

**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**

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; HHC; EIG8; HHC1; NSHPT; PCAR1; hCasR; GPRC2A; HYPOC1; extracellular calcium-sensing receptor; parathyroid Ca(2+)-sensing receptor 1; parathyroid cell calcium-sensing receptor 1; CASR; Calcium sensing receptor

**Gene ID**

[846](#)

**UniProt ID**

[P41180](#)