

## Product Information

### MemDX™ Membrane Protein Human GRM2 (Glutamate metabotropic receptor 2) for Antibody Discovery, Partial (20-498aa)

Cat. No.: **MPX0041K**

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

This product is a 54 kDa Human GRM2 membrane protein. 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

GRM2

##### Protein Length

Partial (20-498aa)

##### Protein Class

GPCR

##### Molecular Weight

54 kDa

##### TMD

7

##### Sequence

GPAKKVLTLEGDLVLGGLFPVHQKGGPAEDC  
GPVNEHRIGIQRLEAMLFALDRINRDPHILLPGVRLGAHILDSCSKDTHALE  
QALDFVRASLSRGADGSRHICPDGSYATHGDAPTAITGVIGGSYSDVSIQ  
VANLLRLFQIPQISYASTSAKLSDKSRYDYFARTVPPDFFQAKAMAEILR  
FFNWTYVSTVASEGDYGETGIEAFELEARARNICVATSEKVGRAMSRAAF  
EGVVRALLQKPSARVAVLFTRSEDARELLAASQRQLNASFTWVASDGWGAL  
ESVVAAGSEGAEGAITIELASYPISDFFASYFQSLDPWNNSRNPWFREFWE  
QRFRCSFRQRDCAAHSLRAVPFEEQESKIMFVVNAVYAMAHALHNMRALC  
PNTTRLCDAMRPVNGRRLYKDFVLNVKFDPFRPADTHNEVRFDRGDG  
GRYNIFTYLRAGSGRYRYQKVGYWAEGLTLDTSLIPWASPSAGPLPAS

#### Product Description

##### Tag

6xHis tag at the C-terminus

**Protein Format**

Soluble

**Form**

LYOPH

**Reconstitution**

Reconstitute at 500 µg/mL in PBS.

**Endotoxin**

<0.1 EU/µg by the LAL method

**Purity**

>95%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.

**Buffer**

Lyophilized from a 0.2 µm filtered solution in PBS and DTT.

**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**

GRM2

**Full Name**

Glutamate metabotropic receptor 2

**Introduction**

L-glutamate is the major excitatory neurotransmitter in the central nervous system and activates both ionotropic and metabotropic glutamate receptors. Glutamatergic neurotransmission is involved in most aspects of normal brain function and can be perturbed in many neuropathologic conditions. The metabotropic glutamate receptors are a family of G protein-coupled receptors, that have been divided into 3 groups on the basis of sequence homology, putative signal transduction mechanisms, and pharmacologic properties. Group I includes GRM1 and GRM5 and these receptors have been shown to activate phospholipase C. Group II includes GRM2 and GRM3 while Group III includes GRM4, GRM6, GRM7 and GRM8. Group II and III receptors are linked to the inhibition of the cyclic AMP cascade but differ in their agonist selectivities. Several transcript variants encoding different isoforms have been found for this gene.

**Alternative Names**

GLUR2; mGlu2; GPRC1B; MGLUR2; glutamate receptor homolog; glutamate receptor, metabotropic 2; GRM2; Glutamate metabotropic receptor 2

**Gene ID**

[2912](#)

**UniProt ID**

[Q14416](#)