

## Product datasheet for RC223673L2V

## OriGene Technologies, Inc.

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## Metabotropic Glutamate Receptor 4 (GRM4) (NM\_000841) Human Tagged ORF Clone Lentiviral Particle

## **Product data:**

**Product Type:** Lentiviral Particles

Product Name: Metabotropic Glutamate Receptor 4 (GRM4) (NM\_000841) Human Tagged ORF Clone

Lentiviral Particle

Symbol: Metabotropic Glutamate Receptor 4

**Synonyms:** GPRC1D; mGlu4; MGLUR4

**Mammalian Cell** 

Selection:

None

**Vector:** pLenti-C-mGFP (PS100071)

Tag: mGFP

**ACCN:** NM\_000841 **ORF Size:** 2736 bp

**ORF Nucleotide** 

The ORF insert of this clone is exactly the same as(RC223673).

OTI Disclaimer:

Sequence:

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing

variants is recommended prior to use. More info

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression

varies depending on the nature of the gene.

RefSeq: <u>NM 000841.1</u>

 RefSeq Size:
 3884 bp

 RefSeq ORF:
 2739 bp

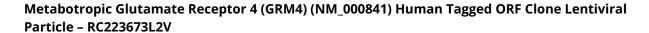
 Locus ID:
 2914

 UniProt ID:
 Q14833

Cytogenetics: 6p21.31

**Protein Families:** Druggable Genome, GPCR, Transmembrane





**Protein Pathways:** Neuroactive ligand-receptor interaction, Taste transduction

MW: 101.87 kDa

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**Gene Summary:** 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. [provided by RefSeq, Feb 2012]

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