

## **Product datasheet for SC207135**

## OriGene Technologies, Inc.

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## Metabotropic Glutamate Receptor 2 (GRM2) (NM 000839) Human 3' UTR Clone

**Product data:** 

**Product Type:** 3' UTR Clones

Product Name: Metabotropic Glutamate Receptor 2 (GRM2) (NM\_000839) Human 3' UTR Clone

**Vector:** pMirTarget (PS100062)

Symbol: GRM2

Synonyms: GLUR2; GPRC1B; mGlu2; MGLUR2

**ACCN:** NM\_000839

**Insert Size:** 531 bp

Insert Sequence: >SC207135 3'UTR clone of NM\_000839

The sequence shown below is from the reference sequence of NM\_000839. The complete

sequence of this clone may contain minor differences, such as SNPs.

Blue=Stop Codon Red=Cloning site

GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAGGCCAAGAAGGGCGGAAAGATCGCCGTG

TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC

TGGTTTATTTTGTATTACCTGTAAATAAAGTGGCTTTATTTTAAAAAA

CGAGATTTCGATTCCACCGCCGCCTTCTATGAAAGG

Restriction Sites: Sgfl-Mlul

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the sequence identifier above as a

point of reference. Note that the complete sequence of this clone is largely the same as the

reference sequence but may contain minor differences, e.g., single nucleotide

polymorphisms (SNPs).

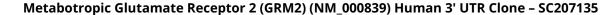
**Components:** The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The

package also includes 100 pmols of both the corresponding 5' and 3' vector primers in

separate vials.

**RefSeq:** <u>NM 000839.5</u>





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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, Mar 2017]

**Locus ID:** 2912 **MW:** 19.6