

Product datasheet for **SC119644**

Metabotropic Glutamate Receptor 2 (GRM2) (NM_000839) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Metabotropic Glutamate Receptor 2 (GRM2) (NM_000839) Human Untagged Clone
Tag:	Tag Free
Symbol:	Metabotropic Glutamate Receptor 2
Synonyms:	GLUR2; GPRC1B; mGlu2; MGLUR2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_000839 edited
 CGGCACGAGGCTTCGCATCTCTCTTCTTGCTGTCTCCTTTCCCTGGTCCCTGTTTCCTCCTC
 TCTTTGCCTTCGCTGCTTCTAATCTCATCCCCTGGAGACCCAGGTCTGCGGGACCCATCC
 ATCCCCCTTTGGGGCCATGGGATCGCTGCTTGCCTCCTGGCACTGCTGCTGCTGTGGGT
 GCTGTGGCTGAGGGCCAGCCAAGAAGGTGCTGACCCTGGAGGGAGACTTGGTGTGGGT
 GGGCTGTTCCAGTGCACCAGAAGGGCGGCCAGCAGAGGACTGTGGTCTGTCAATGAG
 CACCGTGGCATCCAGCGCTGGAGGCCATGCTTTTTGCACTGGACCGCATCAACCGTGAC
 CCGCACCTGCTGCCTGGCGTGGCTGGTGCACACATCCTCGACAGTTGCTCCAAGGAC
 ACACATGCGCTGGAGCAGGCACTGGACTTTGTGCGTGCCTCACTCAGCCGTGGTGTGAT
 GGCTCACGCCACATCTGCCCGACGGCTTATGCGACCCATGGTGTGCTCCCCTGCC
 ATCACTGGTGTATTGGCGGTTCTACAGTGTCTCCATCCAGGTGGCCAACCTTTG
 AGGCTATTTAGATCCCACAGATTAGCTACGCCTTACCAGTGCCAAGCTGAGTGACAAG
 TCCCGCTATGACTACTTTGCCCGCACAGTGCCTCCTGACTTCTTCCAAGCCAAGGCCATG
 GCTGAGATTCTCCGCTTCTTCAACTGGACCTATGTGTCCACTGTGGCGTCTGAGGGCGAC
 TATGGCGAGACAGGCATTGAGGCCTTTGAGCTAGAGGCTCGTGCCCGCAACATCTGTGTG
 GCCACCTCGGAGAAAAGTGGGCGGTGCCATGAGCCGCGCGGCTTTGAGGGTGTGGTGCGA
 GCCCTGCTGCAGAAGCCAGTGGCCGCTGGCTGTCTGTTACCCGTTCTGAGGATGCC
 CGGGAGCTGCTTGTGCCAGCCAGCGCTCAATGCCAGCTTCACTGGGTGGCCAGTGAT
 GGTTGGGGGCCCTGGAGAGTGTGGTGGCAGGCAGTGAGGGGCTGCTGAGGGTGTATC
 ACCATCGAGCTGGCCTCCTACCCATCAGTGACTTTGCCTCCTACTTCCAGAGCCTGGAC
 CCTTGGAAACAACAGCCGGAACCCCTGGTTCCGTGAATTCTGGGAGCAGAGTTCCGCTGC
 AGCTTCCGGCAGCGAGACTGCGCAGCCACTCTCTCCGGCTGTGCCCTTTGAGCAGGAG
 TCCAAGATCATGTTTGTGGTCAATGCAGTGTACGCCATGGCCATGCGCTCCACAACATG
 CACCGTGCCTCTGCCCAACACCACCCGGCTCTGTGACGCGATGCGGCCAGTTAACGGG
 CGCGCCTCTACAAGGACTTTGTGCTCAACGTCAAGTTTGTGATGCCCTTTCCGCCAGCT
 GACACCCACAATGAGGTCGCTTTGACCCTTTGGTGTGATGGTATTGGCCGCTACAACATC
 TTCACCTATCTGCGTGCAGGCAGTGGGCGCTATCGCTACCAGAAGGTGGGCTACTGGGCA



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GAAGGCTTGACTCTGGACACCAGCCTCATCCCATGGGCCTCACCCCTCAGCCGGCCCCCTG
 CCCGCCTCTCGCTGCAGTGAGCCCTGCCTCCAGAATGAGGTGAAGAGTGTGCAGCCGGGC
 GAAGTCTGCTGCTGGCTCTGCATTCCGTGCCAGCCCTATGAGTACCGATTGGACGAATTC
 ACTTGCGCTGATTGTGGCCTGGGCTACTGGCCCAATGCCAGCCTGACTGGCTGCTTCGAA
 CTGCCCCAGGAGTACATCCGCTGGGGCGATGCCTGGGCTGTGGGACCTGTACCATCGCC
 TGCTCGGTGCCCTGGCCACCCTCTTTGTGCTGGGTGTCTTTGTGCGGCACAATGCCACA
 CCAGTGGTCAAGGCCTCAGTCCGGGAGCTCTGCTACATCCTGCTGGGTGGTGTCTTCCTC
 TGCTACTGCATGACCTTCATCTTCATTGCCAAGCCATCCACGGCAGTGTGTACCTTACGG
 CGTCTTGGTTTGGGCACTGCCTTCTGTCTGCTACTCAGCCCTGCTCACCAAGACCAAC
 CGCATTGCACGCATCTTCGGTGGGGCCGGGAGGGTGCCAGCGGCCACGCTTCATCAGT
 CCTGCCTCACAGGTGGCCATCTGCCTGGCACTTATCTCGGGCCAGCTGCTCATCGTGGTC
 GCCTGGCTGGTGGTGGAGGCACCGGGCACAGGCAAGGAGACAGCCCCGAACGGCGGGAG
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 GGCAGTGTCTGCCAGGGCCAGCTCCAGCCTTGGCCAAGGGTCTGGCTCCCAGTTTGTCT
 CCCACTGTTTGAATGGCCGTGAGGTGGTGGACTCGACAACGTATCGCTTTGAAGACCC
 CATACTCCCGCCTGACACAGCTGCTCCTGGGAACCTAGTGCAGACCCACGTCCAGGGCC
 AGGAGGAAGTTGGCTGGAGCACTGCAATAATTTATTACCCACCCTATGTCTGCCCCAAA
 GTCACTTACCCACCTCCTTACCCAGCTTTCAGACTCAGAAGTCAAGAGCCTTGGCCAG
 GAGCCTTGCAGTGGCCACTAACTGCCCTTGTAGCTGTGTTTCCCTGCGCCAGGCCAG
 GGCTCAGAGAGGAGCAAGCCAGGGTCACTCTGCCCTGGACCCGGGTGGCTGAGGACGGC
 AGGCCCCAGTCTAAACCAGCAAAGGTGCTTCCAGCCAGCCCTCCCCCAACTAGGGCC
 TTTTTTATTTTTATATAAGT

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_000839 unedited
 GGATTTAGTAATACGACTCACTTATAGGGCGGCCGCGATTCCGGCAGAGGCTTCGCATCT
 CTCTTCTGTCTGTCTTTCCTGGTCCCTGTTTCCCTCCTCTCTTTGCCTTCGCTGCTTCT
 AATCTCATCCCCTGGAGACCCAGGTCTGCGGGACCCATCCATCCCCTTTGGGGCCATGGG
 ATCGCTGCTTGCCTCCTGGCACTGCTGCTGTGGGTGCTGTGGCTGAGGGCCACG
 CAAGAAGGTGCTGACCCTGGAGGGAGACTTGGTGTGGTGGGCTGTTCCAGTGACCA
 GAAGGGCGGCCAGCAGAGGACTGTGGTCTGTCAATGAGCACCGTGGCATCCAGCGCT
 GGAGGCCATGCTTTTTGCACTGGACCGCATCAACCGTACCCGCACCTGCTGCCTGGCGT
 GCGCCTGGGTGCACACATCCTCGACAGTTGCTCCAAGGACACACATGCGCTGGAGCAGGC
 ACTGGACTTTGTGCGTGCCTCACTCAGCCGTGGTGTGATGGCTCACGCCACATCTGCC
 CGACGGCTCTTATGCGACCCATGGTGTGCTCCACTGCCATCACTGGTGTATTGGCGG
 TTCTACAGTGATGTCTCCATCCAGGTGGCCAACCTCTTGAGGCTATTCAGATCCCACA
 GATTAGCTACGCCTCTACCAGTGCCAAGCTGAGTGACAAGTCCCCTATGACTACTTTG
 CCGCACAGTGCCTCCTGACTTCTTCCAGCCAAGGCCCTGGTGAGATTCTCCGTTCTT
 CACTGGACCTATGTGCCACTGTGGCGTCTGAGGCCGACTATGGCGAGACAGGCATTGAG
 GCCTTTGAGCTAGAGGCTCGTCCCGCCACATCTGTGTGGCCACCTCCGAAAAAGTGGGC
 CGTGCCATGACCGCGGGCTTTGAGATGTTGGTGGGAGCCCTGCTGCAGAAACCCAGTGC
 CGCGTGGCTGTCTT

Protein Families:	Druggable Genome, GPCR, Transmembrane
Protein Pathways:	Neuroactive ligand-receptor interaction
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (1) encodes the longest isoform (a).</p>