

Product datasheet for **SC110911**

Metabotropic Glutamate Receptor 8 (GRM8) (NM_000845) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Metabotropic Glutamate Receptor 8 (GRM8) (NM_000845) Human Untagged Clone
Tag:	Tag Free
Symbol:	Metabotropic Glutamate Receptor 8
Synonyms:	GLUR8; GPRC1H; mGlu8; MGLUR8
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_000845 unedited
 GGGGTTTGGGGCCACNNNNTTTTTCCNNNNNGGGTTCANATTTGTNATACAACCTCAC
 TATAGGCGGCCGCGNAATTCGCACGAGCTCAGTGGTGCCTTTTCTTCTGTGGCAAGAATA
 AACTTTGGGTCTTGGATTGCAATACCACCTGTGGAGAAAATGGTATGCGAGGGAAAGCGA
 TCAGCCTCTTGCCTTGTTCCTCTTGACCGCCAAGTTCTACTGGATCCTCACAATG
 ATGCAAAGAACTCACAGCCAGGAGTATGCCCATCCATACGGGTGGATGGGGACATTATT
 TTGGGGGTCTCTCCCTGTCCACGCAAAGGGAGAGAGAGGGGTGCCTTGTGGGGAGCTG
 AAGAAGGAAAAGGGGATTCACAGACTGGAGGCCATGCTTTATGCAATTGACCAGATTAAC
 AAGGACCCTGATCTCCTTTCCAACATCACTCTGGGTGTCCGCATCCTCGACACGTGCTCT
 AGGGACACCTATGCTTTGGAGCAGTCTCTAACATTCGTGCAGGCATTAATAGAGAAAAGAT
 GCTTCGGATGTGAAGTGTCTAATGGAGATCCACCCATTTTACCAAGCCCGACAAGATT
 TCTGGCGTCATAGGTGCTGCAGCAAGCTCCGTGCCATCATGGTTGCTAACATTTAAGA
 CTTTTTAAGATACCTCAAATCAGCTATGCATCCACAGCCCAGAGCTAAGTGATAACACC
 AGGTATGACTTTTTCTCTCGAGTGGTCCGCCTGACTCCTACCAAGCCAAGCCATGGTGG
 ACATCGTGACAGCACTGGGATGGAATTATGTTTCGACACTGGCTTCTGAGGGGAACTAT
 GNTGAGAGCGTGTGGAGGCCCTCACCCAGATCTCGAGGGAGATTGNNTGGTGTTCATT
 GCTCAGTCCAGAAAATCCACCCTGACCAAGACTGNAGAATTTGAAAAATTATCAACCC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_000845 unedited
 TTACCGCGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
 AACATTTGCAAAACATTCCTTTATTATTAGAAAATAAATTATTTGTATAAAAAATTGCATG
 CATCAATCATTGCATTTATTTTAGCACAACCCAGGGCTTCAATCTGGTCAGCCATTACA
 AGAAACAGACTCATTGTCTTATACAAGTTAAACAATGTGGGACAGGAACGGGAGTTCTCA
 CAATCACAGAAAAATACAAGAATAACATCAGACATTATTTATTTCAACAGCATTTTTTTTT
 CACGAGCTAACATTAGTTTTCTTTTGGGATTTGTTTTAACTGCTCATGAATAAGCAATA
 CTTTAGCTTGACACTCATTGGTTTTATTGGATAAAACGGGTTTCTTCACTCCCGTTTAT
 TGATACTTTTGGCTCATGGCTAATTTTTGTTTCTTACAAGACTGACTATTGATTTGATTG
 ATTGTAGTCTACGGAGATCTCCAGGAGTGAATTTTTGCGGGCTCATGTTTCATCATTAAAG
 ATCATATACCACATCTTTCAGATTGTGCCATTTCCCTGTTTCAGATTGAATGATTGCTG
 TAACTGATATATGTTGTCTTGGTAGAGGAAGTGTGGTTTCAAGACTCTCACAGAGTTCA
 CTTTTACCTCGCCATTTGGTCTGGCATTTCCTTTTTGGATCAGTTTGCTTTGCATGGGG
 GCAGCTGCACCCAGCCTTGAAGCTCCTCTTGCCTTTTGCATTCTGTTCTGGATGAA
 AATTATATATAAACCTTGGCATATAGAGCATGCCAGAGAACTGAAGCACTTAACTCATG
 AAAACGAAGTGGTGGTGCCTGGAGAACCTTTTCGGTACTGGCTGTCCCAAAAAGAGGG
 GAGAAAGCTACCAATGAGCCGGTGG

Restriction Sites:

NotI-NotI

ACCN:

NM_000845

Insert Size:

3630 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

Components:

The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_000845.1](#), [NP_000836.1](#)

RefSeq Size: 3321 bp

RefSeq ORF: 2727 bp

Locus ID: 2918

UniProt ID: [O00222](#)

Cytogenetics: 7q31.33

Domains: 7tm_3, ANF_receptor

Protein Families: Druggable Genome, GPCR, Transmembrane

Protein Pathways: Neuroactive ligand-receptor interaction

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. Alternatively spliced transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq, Jul 2008]
Transcript Variant: This variant (1) encodes isoform a.