

Product datasheet for SC125500

Metabotropic Glutamate Receptor 3 (GRM3) (NM_000840) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Metabotropic Glutamate Receptor 3 (GRM3) (NM_000840) Human Untagged Clone
Tag:	Tag Free
Symbol:	Metabotropic Glutamate Receptor 3
Synonyms:	GLUR3; GPRC1C; mGlu3; MGLUR3
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_000840 edited
GGCGCCCGGAATTCGGCAGCAGGCTTTTGTGTCGGATGAGGAGGACCAACCATGAGCCA
GAGCCCGGTGCAGGCTCACCGCCGCTGCCACCGCGTCCAGTTCCTGCCAG
GAGTTGTCGGTGCAGGAATTTTGTGACAGGCTCTGTTAGTCTGTTCCCTTATTTGA
AGGACAGGCCAAAGATCCAGTTTGGAAATGAGAGAGGACTAGCATGACACATTGGCTCCA
CCATTGATATCTCCAGAGGTACAGAAACAGGATTCATGAAGATGTTGACAAGACTGCAA
GTTCTTACCTTAGCTTTGTTTTCAAAGGATTTTTACTCTCTTTAGGGGACCATAACTTT
CTAAGGAGAGAGATTAATAAGAGGTGACCTGTTTTAGGGGGCCTGTTTCTATTAAC
GAAAAAGGCACTGGAAGTGAAGAATGTGGGCGAATCAATGAAGACCGAGGGATTCAACGC
CTGGAAGCCATGTTGTTGCTATTGATGAAATCAACAAAGATGATTACTTGTACCAGGA
GTGAAGTTGGGTGTTACATTTTGGATACATGTTCAAGGATACCTATGCATTGGAGCAA
TCACTGGAGTTTGTGAGGCATCTTTGACAAAAGTGGATGAAGCTGAGTATATGTGTCCT
GATGGATCCTATGCCATTCAAGAAAACATCCCCTTCTCATTGCAGGGGTATTGGTGGC
TCTTATAGCAGTGTTCATACAGGTGGCAAACCTGCTGCGGCTCTTCCAGATCCCTCAG
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CGCTCCAACATCCGCAAGTCTACGACAGCGTGATCCGAGAAGTGTGCAGAAGCCCAAC
CGCGCGTCTGTCCTCTTATGCGCAGCGAGCTCGCGGGAGCTCATTGCAGCCGCC
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ATCATCAAGGGCAGCGAGCATGTGGCTACGGCGCCATCACCTGGAGCTGGCTCCCAG
CCTGTCCGCCAGTTCGACCGCTACTTCCAGAGCCTCAACCCCTACAACAACCACCACAAC
CCCTGGTTCGGGACTTCTGGGAGCAAAAGTTTTCAGTGCAGCCTCCAGAACAACGCAAC
CACAGGCGCTGCGACAAGCACCTGGCCATCGACAGCAGCAACTACGAGCAAGAGTCC
AAGATCATGTTTGTGGTGAACCGGTGTATGCCATGGCCACGCTTTGCACAAAATGCAG
CGCACCTCTGTCCCAACTACCAAGCTTTGTGATGCTATGAAGATCCTGGATGGGAAG



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AAGTTGTACAAGGATTACTTGCTGAAAATCAACTTCACGGCTCCATTCAACCCAAATAAA
GATGCAGATAGCATAGTCAAGTTTGACACTTTTGGAGATGGAATGGGGCGATACAACGTG
TTCAATTTCCAAAATGTAGGTGGAAAGTATTCCTACTTGAAGTTGGTCACTGGGCAGAA
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TGCAGCGACCCCTGTGCCCCAAATGAAATGAAGAATATGCAACCAGGGGATGTCTGCTGC
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AAAGAACAACCCTAGTACCTTTTTTTAGAACAGTACGATAAATTTTTTGGAGACTGT
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CCCAGAACATGGAATAACCATTGTTTACAGAGCTGAGCATTGGTACAGGGTCTGACAT
GGTCAGTCTACTAAAAAAAAAAAAAAAAAACTCGACTCTAGATTGCGGCCGCGGTATAG
CTGTTTCTGAACAGATCCCGGGTGGCATCCCTGTGACCCTCCCAAGTGCCTCTCTGG
CCCTGAAAGTTGCCACTCCAGTCCACCAGCCTTGCTCCTAATAAAATTAAGTTGCATCA
TTTTGTCTGACTAGGTGTCC
    
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5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_000840 unedited
GTAATACGACTCACTATAGGGCGCCGCGAATTCGGCACGAGGCTTTTGTGTCGGATGAG
GAGGACCAACCATGAGCCAGAGCCCGGGTGCAGGCTCACCGCCGCGCTGCCACCGCGGT
CAGCTCCAGTTTCTGCCAGGAGTTGTCCGTGCGAGGAATTTTGTGACAGGCTCTGTTAGT
CTGTTCCCTCCCTATTTGAAGGACAGGCCAAAGATCCAGTTTGGAAATGAGAGAGGACTA
GCATGACACATTGGCTCCACCATTGATATCTCCAGAGGTACAGAAACAGGATTCATGAA
GATGTTGACAAGACTGCAAGTTCTTACCTTAGCTTTGTTTTCAAAGGGATTTTTACTCTC
TTTAGGGGACCATAACTTTCTAAGGAGAGAGATTAATAAGAAAGTGCACCTGTTTTAGG
GGGCTGTTTCTATTAACGAAAAGGCACTGGAATGAAGAATGTGGGCGAATCAATGA
AGACCGAGGGATTCAACGCCTGGAAGCCATGTTGTTTGTATTGATGAAATCAACAAAGA
TGATTACTTGGTACCAGGAGTGAAGTTGGGTGTTACATTTTGGATACATGTTCAAGGGA
TACCTATGCATTGGAGCAATCACTGGAGTTTGTGAGGCACTTTGACAAAAGTGGATGA
AGCTGAGTATATGTGCTGATGGATCCTATGCCATTCAAGAAACATCCCCTTCTCATT
GCAGGNGTCATTGGNTGGCTCTTATAGCAGTGTTCATACAGGTGCANACCTGCTGCGG
CTCTTNCAGATCCCTCAGATCAGCTACGATTCACCAGCCGCAAACTCAGTGATNAGTCG
CGCTATGATTACTTTGNACAGNACCGTGCACCCGACTTCTACCAGCCAAAGCCTGGGCTG
AATC
    
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3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_000840 unedited</p> <pre> TTTTAAAAATTTTTCTTTGAACCGCGNCCCGCATTCTANNGATCGATTTTTTTTTTTTT TTTTTTGGTTTTTTTTTTTTTTGGTTTTTTTTTTGGTTTTTAATAAACTGACCATGTCAA CCCTGTCACCAATGCTCAACTCTGTAACAATGGTTATTTCCATGTTCTGGGGGAATTGT TAATAATAGGGGCACTAACTCAACCTAAAAAGTTCTAACACATCACTATATACAGTCCT CAAAAATAATTTATCGTACTGGTTCTAAAAAAGTACTAAGGGTGGTCTTTTGCTCTGT TTCCATATTCTGGAGCTGCACGTGAGCACTTTTGTCTAACAGTCTAAAAACACAAGAAT GAACTGTCAATTCACAATCACAGAAATGAAGTGGTGGAGTCAAGGACTTTCGCCCATTC ACACCGTTGGCACATAACTGCCTGCAAAGGACTGAAAGTATGTGGTCCAATTTCACTGAC ACTAACCTGTTGAGGGCATCCTGTGTGTGACAACCTTTCTTCTGGGGTGAAAAACAGATATG GGAACCTGGGTGCAAACAAACCCAGACCACAAACCCCTCAGGCTGACAAAAATGCCAT GGGTTGCCCTGCCCTTTATCACTTGATGCCCTAAAATTANGGAGGAAGGCCACCCAA GATGCCCTGGGGTCTTGAAAAACCTTGACTTACCTTCTGAAATTTTTGGGCCCTCCC CCTTTTGAAGGCGTCCCGGGATAAAAAACCCCGAACCCCTTTTTGGTAAAAAAAACCC ATGCGGGAATTTTGAATGCTTTTAGAAAACCTGTTCCCTTTTTTGCAGGTAACCCCTC TGGCCGGGGCTCCAGGTACCCCCACCCCTCATTTGCCCGGATAAACCCCCCAT AAACCTGACACGGGGCTGAAAATTGGCCCTTACCCCTTTTTCCCTAAAAAAGGGGAAA AATTTGTTTGA </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_000840
Insert Size:	3220 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:	<ol style="list-style-type: none"> 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_000840.2 , NP_000831.2
RefSeq Size:	4260 bp
RefSeq ORF:	2640 bp
Locus ID:	2913
UniProt ID:	Q14832
Cytogenetics:	7q21.11-q21.12
Domains:	7tm_3, ANF_receptor

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. [provided by RefSeq, Jul 2008]</p>