

Product datasheet for **SC332482**

Metabotropic Glutamate Receptor 4 (GRM4) (NM_001256814) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Metabotropic Glutamate Receptor 4 (GRM4) (NM_001256814) Human Untagged Clone
Tag:	Tag Free
Symbol:	Metabotropic Glutamate Receptor 4
Synonyms:	GPRC1D; mGlu4; MGLUR4
Vector:	pCMV6-Entry (PS100001)



[View online »](#)

Fully Sequenced ORF: >SC332482 representing NM_001256814.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

```

ATGGTGCAAACCTCTTCCCAAGCTATTTCCCATGATGGCGCCAAGAGAAAAAGAGGACCCTTAGGACT
TCAGGGCCATGCTTTGGGGTGGAGGACAGATACCCAGATCAGCTACGCCTCCACAGGCCAGACCTG
AGTGACAACAGCCGCTACGACTTCTTCTCCCGTGGTGCCTCGGACACGTACCAGGCCAGCCATG
GTGGACATCGTCCGTGCCCTCAAGTGAACATATGTGCCACAGTGCCTCGGAGGCCAGCTATGGTGAG
AGCGGTGTGGAGCCTTCATCCAGAAGTCCCGTGAGGACGGGGCGTGTGCATCGCCAGTCGGTGAAG
ATACCACGGGAGCCCAAGGCAGGCGAGTTCGACAAGATCATCCGCCGCCTCCTGGAGACTTCGAAGCC
AGGGCAGTCATCATCTTTGCCAACGAGGATGACATCAGGCGTGTGCTGGAGGCAGCACGAAGGGCCAAC
CAGACAGGCCATTTCTTGGATGGGCTCTGACAGCTGGGGCTCCAAGATTGCACCTGTGCTGCACCTG
GAGGAGGTGGCTGAGGGTGTGTACGATCCTCCCAAGAGGATGTCCGTACGAGGCTTCGACCGCTAC
TTCTCCAGCCGCACGCTGGACAACAACCGGCGCAACATCTGGTTTCCGAGTTCTGGGAGACAACCTC
CACTGCAAGCTGAGCCGCCACGCCCTCAAGAAGGGCAGCCACGTCAAGAAGTGCACCAACCGTGAGCGA
ATTGGGCAGGATTACGCTTATGAGCAGGAGGGGAAGGTGCAGTTTGTGATCGATGCCGTGTACGCCATG
GGCCACGCGCTGCACGCCATGCACCGTACCTGTGTCCCGGCCGCGTGGGGCTCTGCCCGCGCATGGAC
CCTGTAGATGGCACCAGCTGCTTAAGTACATCCGAAACGTCAACTTCTCAGGCATCGCAGGGAACCTT
GTGACCTTCAATGAGAATGGAGATGCGCCTGGGCGCTATGACATCTACCAATACCAGCTGCGCAACGAT
TCTGCCGAGTACAAGGTCAATGGCTCCTGGACTGACCCTGCACCTTAGAATAGAGCGGATGCACTGG
CCGGGGAGCGGGCAGCAGCTGCCCGCTCCATCTGCAGCTGCCCTGCCAACCAGGGTGGAGCGAAGAAG
ACAGTGAAGGGCATGCCTTGCTGCTGGCACTGCGAGCCTTGACACAGGGTACCAGTACCAGGTGGACCGC
TACACCTGTAAGACGTGTCCCTATGACATGCGGCCACAGAGAACCAGCAGGGCTGCCGGCCATCCCC
ATCATCAAGCTTGAGTGGGGCTCGCCCTGGGCGTGTGCTGCCCTTCTTGGCCGTGGTGGGCATCGCT
GCCACGTTGTTGCGTGGTATCACCTTTGTGCGCTACAACGACACGCCCATCGTCAAGGCCTCGGGCCGT
GAACTGAGCTACGTGCTGCTGGCAGGCATCTTCTGTGCTATGCCACCACCTTCTCATGATCGCTGAG
CCCACCTTGGCACCTGCTCGTGCGCCGAATCTTCTGGGACTAGGGATGAGCATCAGCTATGCAGCC
CTGCTACCAAGACCAACCGCATCTACCGCATCTTCGAGCAGGGCAAGCGCTCGGTGAGTCCCCACGC
TTCATCAGCCCCGCTCACAGCTGGCCATCACCTTACGCTCATCTCGTGCAGCTGCTGGGCATCTGT
GTGTGGTTTGTGGTGGACCCCTCCCACTCGGTGGTGGACTCCAGGACCAGCGGACACTCGACCCCGC
TTCGCCAGGGGTGTGCTCAAGTGTGACATCTCGGACCTGTGCTCATCTGCTGCTGGGTACAGCATG
CTGCTCATGGTACGTGCACCGTGTATGCCATCAAGACACGCGGCGTCCCGAGACCTTCAATGAGGCC
AAGCCCATTTGGCTTACCATGTACACCACTTGCATCGTCTGGCTGGCCTTCATCCCATCTTCTTTGGC
ACCTCGCAGTCGCGCCGACAAGCTGTACATCCAGACGACGACGCTGACGGTCTCGGTGAGTCTGAGCGCC
TCGGTGTCCCTGGGAATGCTCTACATGCCAAAAGTCTACATCATCCTTCTCCACCCGGAGCAGAACGTG
CCCAAGCGCAAGCGCAGCCTCAAAGCCGTGTTACGGCGGCCACCATGTCCAACAAGTTCACGCAGAAG
GGCAACTTCCGGCCCAACGGAGAGGCCAAGTCTGAGCTCTGCGAGAACCTTGAGGCCCCAGCGCTGGCC
ACCAAACAGACTTACGTCACTTACCAACCATGCAATCTAG
  
```

Restriction Sites: SgfI-MluI

ACCN: NM_001256814

Insert Size: 2319 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:	<u>NM_001256814.1</u>
RefSeq Size:	3331 bp
RefSeq ORF:	2319 bp
Locus ID:	2914
Cytogenetics:	6p21.31
Protein Families:	Druggable Genome, GPCR, Transmembrane
Protein Pathways:	Neuroactive ligand-receptor interaction, Taste transduction
MW:	86.7 kDa
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, Feb 2012]</p> <p>Transcript Variant: This variant (7) differs in the 5' UTR and coding sequence compared to variant 1. The resulting isoform (7) has a shorter and distinct N-terminus compared to isoform 1.</p>