

## Product datasheet for **SC332479**

### Metabotropic Glutamate Receptor 4 (GRM4) (NM\_001256811) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Metabotropic Glutamate Receptor 4 (GRM4) (NM_001256811) Human Untagged Clone
Tag:	Tag Free
Symbol:	Metabotropic Glutamate Receptor 4
Synonyms:	GPRC1D; mGlu4; MGLUR4
Vector:	pCMV6-Entry (PS100001)



[View online »](#)

**Fully Sequenced ORF:** >SC332479 representing NM\_001256811.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

```

ATGCTGGGAAGAGAGGCTTGGGCTGGTGGTGGGCCCGGCTGCCCTTTGCCTGCTCCTCAGCCTTTAC
GGCCCCGGATGCCTTCTCCCTGGGAAAGCCAAAGGCCACCCTCACATGAATTCATCCGCATAGAT
GGGGACATCACACTGGGAGGCTGTTCCCGGTGCATGGCCGGGCTCAGAGGGCAAGCCCTGTGGAGAA
CTTAAGAAGAAAAGGGCATCCACCGGCTGGAGGCCATGCTGTTCCGCCCTGGATCGCATCAACAACGAC
CCGGACCTGCTGCCTAACATCACGCTGGGCGCCCGCATTCTGGACACCTGCTCCAGGGACACCCATGCC
CTCGAGCAGTCGCTGACCTTTGTGCAGGCGCTCATCGAGAAGGATGGCACAGAGGTCCGCTGTGGCAGT
GGCGGCCACCCATCATACCAAGCCTGAACGTGTGGTGGGTGTCATCGGTGCTTCAGGGAGCTCGGTC
TCCATCATGGTGGCAACATCCTTCGCCTTTCAAGATACCCAGATCAGCTACGCCTCCACAGCGCCA
GACCTGAGTGACAACAGCCGCTACGACTTCTTCCCGGTGGTGCCTCGGACACGTACCAGGCCAG
GCCATGGTGGACATCGTCCGTGCCCTCAAGTGGAACTATGTGTCCACAGTGGCTCGGAGGGCAGCTAT
GGTGAGAGCGGTGTGGAGGCTTTCATCCAGAAGTCCCGTGAGGACGGGGCGTGTGCATCGCCAGTCG
GTGAAGATACCACGGGAGCCCAAGGCAGGCGAGTTCGACAAGATCATCCCGCCCTCCTGGAGACTTCG
AACGCCAGGGCAGTCATCATCTTTGCCAACGAGGATGACATCAGGCGTGTGCTGGAGGCAGCACGAAGG
GCCAACAGACAGGCCATTTCTTCTGGATGGGCTCTGACAGCTGGGGCTCCAAGATTGCACCTGTGCTG
CACCTGGAGGAGGTGGCTGAGGGTGTGTACGATCCTCCCAAGAGGATGTCCGTACGAGACCGTGAG
CGAATTGGGCAGGATTACGCTTATGAGCAGGAGGGGAAGGTGCAGTTTGTGATCGATGCCGTGTACGCC
ATGGGCCACGCGCTGCACGCCATGCACCGTGACCTGTGTCCCGGCCGCGTGGGGCTCTGCCCGCGCATG
GACCCTGTAGATGGCACCAGCTGCTTAAGTACATCCGAAACGTCAACTTCTCAGGCATCGCAGGGAAC
CCTGTGACCTTCAATGAGAATGGAGATGCGCCTGGGCGCTATGACATCTACCAATACCAGCTGCGCAAC
GATTCTGCCGAGTACAAGGTCAATTGGCTCCTGGACTGACCACCTGCACCTTAGAATAGAGCGGATGCAC
TGGCCGGGGAGCGGGCAGCAGTGCCTCCATCTGCAGCCTGCCCTGCCAACCGGGTGGAGCGGAAG
AAGACAGTGAAGGGCATGCCTTGTGCTGGCACTGCGAGCCTTGACAGGGTACCAGTACCAGGTGGAC
CGCTACACCTGTAAGACGTGTCCCTATGACATGCGGCCACAGAGAACCACAGGGCTGCCGCCCATC
CCCATCATCAAGCTTGTGAGTGGGGCTCGCCCTGGGCGTGTGCCCTTCTTCTGGCCGTGGTGGGCATC
GCTGCCACGTTGTTGTTGGTGTACCTTTGTGCGCTACAACGACACGCCATCGTCAAGGCCTCGGGC
CGTGAAGTACGTGCTGCTGGCAGGCATCTTCTGTGCTATGCCACCACCTTCTCATGATCGCT
GAGCCCGACCTTGGCACCTGCTCGTGCCTGCAATCTTCTGGGACTAGGGATGAGCATCAGCTATGCA
GCCCTGCTACCAAGACCAACCGCATCTACCGCATCTTCGAGCAGGGCAAGCGCTCGGTGAGTGCCTCA
CGCTTTCATCAGCCCCGCTCACAGCTGGCCATCACCTTACGCTCATCTCGCTGCAGCTGCTGGGCATC
TGTGTGTGGTTTGTGGTGGACCCCTCCACTCGGTGGTGGACTTCCAGGACCAGCGGACACTCGACCCC
CGCTTCGCCAGGGGTGTGCTCAAGTGTGACATCTCGGACCTGTGCTCATCTGCCTGCTGGGCTACAGC
ATGCTGCTCATGGTACGCTGCACCGTGTATGCCATCAAGACACGCGGCGTGGCCGAGACCTTCAATGAG
GCCAAGCCATTGGCTTACCATGTACACCACTTGATCGTCTGGCTGGCCTTATCCCCATCTTCTTT
GGCACCTCGCAGTCGGCCGACAAGCTGTACATCCAGACGACGACGCTGACGGTCTCGGTGAGTCTGAGC
GCCTCGGTGTCCCTGGGAATGCTCTACATGCCAAAGTCTACATCATCTTCCACCCGGAGCAGAAC
GTGCCCCAAGCGCAAGCGCAGCCTCAAAGCCGTGTTACGGCGGCCACCATGTCCAACAAGTTCACGCAG
AAGGGCAACTTCCGGCCCCAAGGAGAGGCCAAGTCTGAGCTCTGCGAGAACCCTTGAGGCCCCAGCGCTG
GCCACCAACAGACTTACGTCACTTACCAACCATGCAATCTAG
  
```

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001256811

**Insert Size:** 2598 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).

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001256811.2</a>
<b>RefSeq Size:</b>	7293 bp
<b>RefSeq ORF:</b>	2598 bp
<b>Locus ID:</b>	2914
<b>UniProt ID:</b>	<a href="#">Q14833</a>
<b>Cytogenetics:</b>	6p21.31
<b>Protein Families:</b>	Druggable Genome, GPCR, Transmembrane
<b>Protein Pathways:</b>	Neuroactive ligand-receptor interaction, Taste transduction
<b>MW:</b>	96.1 kDa
<b>Gene Summary:</b>	<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 (4) lacks an alternate in-frame exon compared to variant 1. The resulting isoform (4) has the same N- and C-termini but is shorter compared to isoform 1.</p> <p>Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>