

Product datasheet for **RG239059**

Metabotropic Glutamate Receptor 4 (GRM4) (NM_001282847) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Metabotropic Glutamate Receptor 4 (GRM4) (NM_001282847) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Metabotropic Glutamate Receptor 4
Synonyms:	GPRC1D; mGlu4; MGLUR4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG239059 representing NM_001282847.
 Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGGGCTCTGACAGCTGGGGCTCCAAGATTGCACCTGTGCTGCACCTGGAGGAGGTGGCTGAGGGTGTCT
GTCACGATCCTCCCAAGAGGATGTCCGTACGAGGCTTCGACCGCTACTTCTCCAGCCGACAGCTGGAC
AACCAACCGGCGCAACATCTGGTTTGCCGAGTTCTGGGAGGACAACCTCCACTGCAAGCTGAGCCGCCAC
GCCCTCAAGAAGGGCAGCCACGTCAAGAAGTGCACCAACCGTGAGCGAATTGGGCAGGATTCAAGTTAT
GAGCAGGAGGGGAAGGTGCAGTTTGTGATCGATGCCGTGTACGCCATGGGCCACGCGCTGCACGCCATG
CACCGTGACCTGTGTCCCGGCCGCTGGGGCTCTGCCCGCGCATGGACCCTGTAGATGGCACCCAGCTG
CTTAAGTACATCCGAAACGTCAACTTCTCAGGCATCGCAGGGAACCTGTGACCTTCAATGAGAATGGA
GATGCGCCTGGGCGCTATGACATCTACCAATACCAGCTGCGCAACGATTCTGCCGAGTACAAGGTCATT
GGCTCCTGGACTGACCACCTGCACCTTAGAATAGAGCGGATGCACTGGCCGGGGAGCGGGCAGCAGCTG
CCCCGCTCCATCTGCAGCCTGCCCTGCCAACCGGGTGAGCGGAAGAAGACAGTGAAGGGCATGCCTTGC
TGCTGGCACTGCGAGCCTTGACAGGGTACCAGTACCAGGTGGACCGCTACACCTGTAAGACGTGTCCC
TATGACATGCGGCCACAGAGAACCGCACGGGCTGCCGGCCATCCCCATCATCAAGCTTGAAGTGGGGC
TCGCCCTGGGCGGTGCTGCCCTTCTCCTGGCCGTGGTGGGCATCGCTGCCACGTTGTTCTGTTGGTATC
ACCTTTGTGCGCTACAACGACACGCCCATCGTCAAGGCCCTCGGGCCGTGAAGTGAAGTACGCTGCTGCTG
GCAGGCATCTTCTGTGCTATGCCACCACCTTCTCATGATCGCTGAGCCCGACCTTGGCACCTGCTCG
CTGCGCGAATCTTCTGGGACTAGGGATGAGCATCAGCTATGCAGCCCTGCTCACCAAGACCAACCGC
ATCTACCGCATCTTCGAGCAGGGCAAGCGCTCGGTGAGTCCCGCCAGCTTCAACAGCCCGCCTCACAG
CTGCCATCACCTTCAGCCTCATCTCGCTGCAGCTGCTGGGCATCTGTGTGTGGTTGTGGTGGACCCC
TCCCACTCGGTGGTGGACTTCCAGGACCAGCGGACTCGACCCCGCTTCGCCAGGGGTGTGCTCAAG
TGTGACATCTCGGACCTGTGCTCATCTGCCTGCTGGGCTACAGCATGCTGCTCATGGTACAGTGCACC
GTGATGCCATCAAGACACGCGCGTGCAGGACCTTCAATGAGGCCAAGCCATTGGCTTACCATG
TACACCACTTGCATCGTCTGGCTGGCCTTCAACCCATCTTCTTGGCACCTCGCAGTCCGCCGACAAG
CTGTACATCCAGACGACGAGCTGACGGTCTCGGTGAGTCTGAGCGCCTCGGTGTCCCTGGGAATGCTC
TACATGCCCAAAGTCTACATCATCTCTCCACCCGAGCAGAACGTGCCAAGCGCAAGCGCAGCCTC
AAAGCCGTCGTTACGGCGGCCACCATGTCCAACAAGTTCACGCAGAAGGGCAACTCCGGCCCAACGGA
GAGGCCAAGTCTGAGCTCTGCGAGAACCTTGAGCCCCAGCGCTGCCACCAACAGACTTACGTCACT
TACACCAACCATGCAATC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

Protein Sequence:

>Peptide sequence encoded by RG239059
 Blue=ORF Red=Cloning site Green=Tag(s)

```
MGSDSWGSKIAPVLHLEEVAEGAVTILPKRMSVRGFDRYFSSRTLNNRRNIWF AEFWEDNFHCKLSRH
ALKKGSVHKCTNRERIGQDSAYEQEGKVQFVIDAVYAMGHALHAMHRDLCPRVGLCPRMDPVDGTQL
LKYIRNVNFSGIAGNPVTFNENGDAPEGRIYQYQLRNDSAEYKVIKSWTDHLHLRIERMHWPGSGQQL
PRISICSLPCQGERKKTVKGMPCWHCEPCTGYQYQVDRYTCKTCTPYDMRPTENRTGCRPIPIIKLEWG
SPWAVLPLFLAVVIAATLFFVITFVRYNDTPIVKASGRELSYVLLAGIFLCYATTFLMIAEPDLGTC
LRRIFLGLGMSISYAALLTKTNRIRIFEQKRSVSAPRFISPASQLAITFSLISLQLLGICVWFVVD
SHSVVDFQDQRTLDPRFARGVLKCDISLCLICLLGYSMLLMVTCTVYAIKTRGVPETFNEAKPIGFTM
YTTCIVWLAFFIIFGTSQSADKLYIQTTLTVSVLSASVSLGMLYMPKYYIILFHPEQNVPKRKRSL
KAVVTAATMSNKFQKGNFRPNGEAKSELNENLEAPALATKQTYVYTNHAI
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPE
SVIFTDKIIIRSNATVEHLHPMGDNDLDGFSFTRTFLSLRDGGYSSVVDSHMFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

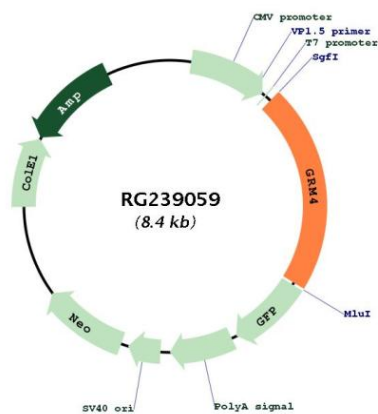
Restriction Sites:

SgfI-MluI

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. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Feb 2012]

Product images:



Circular map for RG239059