

Product datasheet for **RG216892**

Metabotropic Glutamate Receptor 5 (GRM5) (NM_000842) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Metabotropic Glutamate Receptor 5 (GRM5) (NM_000842) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Metabotropic Glutamate Receptor 5
Synonyms:	GPRC1E; mGlu5; MGLUR5; PPP1R86
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
Protein Sequence:	>RG216892 representing NM_000842 Red=Cloning site Green=Tags(s)

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MVLLLLILSVLLLKEDVRGSAQSSERRVVAHMPGDIIIGALFSVHHQPTVDKVHERKCGAVREQYGIQRVE
AMLHTLERINSDPTLLPNITLGCEIRDSCWHSVALEQSTEFIRDLSISSEEEGLVRCVDGSSSSFRSK
KPIVGVIGPGSSVAIQVQNLQLFNIPQIAYSATSMDSLTKLFKYFMRVVPDAQQARAMVDIVKRYN
WTVVSAVHTEGNYGESGMEAFKDSAKEGICIAHSYKIYSNAGEQSFDKLLKLTSHLPKARVVACFCEG
MTVRGLLMAMRRLGLAGEFLLLGSDGWADRYDVTDGYQREAVGGITIKLQSPDVKWFDDYYLKLRPETNH
RNPWFQEFWQHRFQCRLEGFPQENSKYKTCNSSLTLKTHHVQDSKMGFVINAIYSMAYGLHNMQMSLCP
GYAGLCDAMKPIDGRKLLLESLMKTNFTGVSGDTILFDENGSPGRYEIMNFKEMGKDYFDYINVGSWDNG
ELKMDDEEVWSKKSNIIRSVCSEPCEKQIKVIRKGEVSCCWTCPTCKENEYVFDEYTCACQLGSWPTD
DLTGCDLIPVQYLRWGDPEPIAAVVFACLGLLATLFTVVFIIYRDTPVVKSSSRELCYIILAGICLGYL
CTFCLIAKPKQIYCYLQRIGIGLSPAMSYALVTKTNRIRILAGSKKICTKKPRFMSACAQLVIAFIL
ICIQLGIIVALFIMEPPDIMHDYPSIREVYLICNTTNLGVVTPPLGYNGLLILSCTFYAFKTRNVPANFNE
AKYIAFTMYTTCIIWLAFFVPIYFGSNYKIITMCFVSLSATVALGCMFVPKVYIILAKPERNVRSAFTTS
TVVRMHVGDGKSSSAASRSSLVNLWKRGGSSGETLSSNGKSVTWAQNEKSSRGQHLWQRLSIHINKKEN
PNQTAVIKPFPKSTESRGLGAGAGAGGSAGGVGATGGAGCAGAGPGGPESPDAGPKALYDVAEAEHFPA
PARPRSPPISTLSHRAGSASRTDDVPSLHSEPVARSSSSQGSLEQISSVVTRFTANISELNSMMLST
AAPSPGVGAPLCSYLIPKEIQLPPTMTTFAEIQPLPAIEVTGGAQPAAGAQAAGDAARESPAAGPEAAA
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TRTRPLE - GFP Tag - V

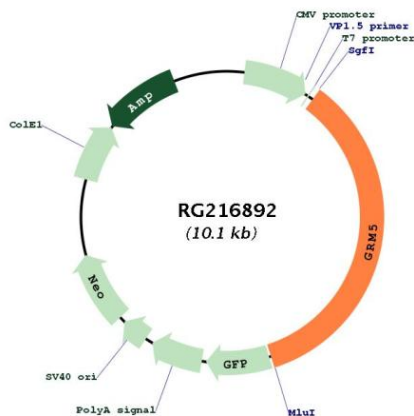
Restriction Sites: Sgfl-MluI



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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_000842.5
RefSeq Size:	7957 bp
RefSeq ORF:	3543 bp
Locus ID:	2915
UniProt ID:	P41594
Cytogenetics:	11q14.2-q14.3
Domains:	7tm_3, ANF_receptor
Protein Families:	Druggable Genome, GPCR, Transmembrane
Protein Pathways:	Calcium signaling pathway, Gap junction, Huntington's disease, Long-term depression, Long-term potentiation, Neuroactive ligand-receptor interaction
Gene Summary:	This gene encodes a member of the G-protein coupled receptor 3 protein family. The encoded protein is a metabotropic glutamate receptor, whose signaling activates a phosphatidylinositol-calcium second messenger system. This protein may be involved in the regulation of neural network activity and synaptic plasticity. Glutamatergic neurotransmission is involved in most aspects of normal brain function and can be perturbed in many neuropathologic conditions. A pseudogene of this gene has been defined on chromosome 11. Alternative splicing results in multiple transcript variants. [provided by RefSeq, May 2014]

Product images:



Circular map for RG216892