

Product datasheet for **MG210868**

Grm4 (NM_001013385) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Grm4 (NM_001013385) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Grm4
Synonyms:	Gprc1d; mGluR4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG210868 representing NM_001013385
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCCGGGAAGGGAGGCTGGGCTGGTGGTGGGCCCGGTGCCCTCTGCCTACTCCTCAGCCTTTATG
 GCTCCTGGGTGCCTTCATCCCTAGGAAAAGCCCAAGGGTCACCCCCACATGAACTCTATCCGTATCGATGG
 AGACATCACCCCTGGGAGGCCTGTTTCCCGTCCACGGTCCGCGCTCCGAGGGCAAGGCCTGCGGCGAGTTG
 AAGAAGGAGAAAGGTATCCACCGGCTGGAGGCCATGCTCTTTGCCCTGGACCGCATCAACAACGACCCGG
 ACCTACTGCCCAACATCACGTTGGGCGCCCGCATTCTGGACACCTGCTCAAGGGATACCCACGCCCTGGA
 GCAGTCCCTGACCTTTGTGACGGCGCTCATCGAGAAGGACGGCACGGAGGTCCGCTGCGGCGAGGGGGC
 CCACCCATCATACCAAGCCTGAACGAGTGGTGGGTGTCATCGGAGCTTCGGGGAGCTCCGTCTCGATCA
 TGGTGGCCAAACATCCTCCGCTCTTCAAGATCCCCAGATCAGCTACGCCTCCACGGCTCCCGACTTGAG
 TGATAACAGCCGCTATGACTTCTTCTCCGGGTGTCGCCCTCGGACACATACCAGGCCAGGCCATGGTG
 GACATCGTCCGGGCCCTCAAGTGAAGTATGTGTCCACGCTGGCCTCAGAGGGTAGCTACGGCGAGAGCG
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 ATCATCATCTTTGCCAACGAGGATGATATCAGGAGGGTGTGGAGGCAGCGCGCAGGGCCAAACCAGACCG
 GCCACTTCTTTGGATGGGTTCTGATAGCTGGGGCTCCAAGAGCGCCCCGTGCTGCGCCTTGAGGAAGT
 GGCTGAAGGTGCAGTACCATTCTTCCAAGAGGACGCTGTGCGAGGGTTTGACCGATACTTCTCCAGC
 CGCACGCTTGACAACAACAGGCGCAACATCTGGTTTGTGAGTTCTGGGAGGACAACCTCCATTGCAAGT
 TGAGCCCGCACGCGCTCAAGAAGGGAAGCCACATCAAGAAGTGCACCAACCGAGAGCGCATCGGGCAGGA
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 CCCAGTGCTTAAGTACATCAGAAAACGTCAACTTCTCAGGCATCGCCGGGAACCCGGTGACCTTCAACGA
 GAACGGAGACGCGCCAGGGCGTTATGACATCTACCAGTACCAACGTGCAACGGCTCGGCTGAGTACAAG
 GTCATCGGCTCATGGACAGACCACTTGACCTCAGAATAGAGCGGATGCAGTGGCCAGGGAGTGGCCAGC
 AGCTGCCACGCTCCATCTGCAGCTGCCCTGCCAGCCAGGCGAGCGGAAGAAGACGGTGAAGGGCATGGC
 TTGCTGCTGGCACTGCGAGCCCTGCACGGGTACCAGTACCAGGTGGACCCTACACCTGTAAGACCTGC
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 GCCATCAAGACTCGAGGGTGCCTGAGACCTTCAATGAGGCCAAGCCCATCGGCTTACCATGTACACCA
 CCTGCATCGTCTGGCTGGCTTATCCCATCTTTTTTGGCACCTCGCAGTCGGCTGACAAGGTAACCTC
 TGAGGCCCTGCCGTGGAATTCAGCCGCCATTGCTGGCACATAAT

ACCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG210868 representing NM_001013385
Red=Cloning site Green=Tags(s)

MSGKGGWAWWARLPLCLLLSLYGSWVPSLGGPKGHPHMNSIRIDGDITLGGFPVHGRGSEGKACGEL
KKEKGIHRL EAMLFALDRINNDPDLNITLGARILDTC SRDTHALEQSLTFVQALIEKDGTEVRCGSGG
PPIITKPERVVGIVIGASGSSVSIMVANILRLFKIPQISYASTAPDLSDNSRYDFFSRVVP SDTYQAQAMV
DIVRALKWNYVSTLASEGSYGESGVEAFIQKSRENGGVCIAQSVKIPREPKTGEFDKIIKRLL ETSNARA
IIIFANEDDIRRVLEAARRANQTGHFFWMGSDSWGSKSAPVLRLEEVAEGAVTILPKRTSVRGFDRYFSS
RTL DNNRRNIWFAEFWEDNFHCKLSRHALKKGSHIKKCTNRERIGQDSAYEQEGKVQFVIDAVYAMGHAL
HAMHRDLCPGRVGL CPRMDPVDGTQLLKYIRNVNFSGIAGNPVTFNENG DAPGRYDIYQYQRRNGSAEYK
VIGSWTDHLHLRIERMQWPGSGQLPRISCSLPCQPGERKKT VKGMACCWHCEPCTGYQYQVDRYTCKTC
PYDMRPTENRTSCQPIPIVKLEWDSPWAVLPLFLAVVGI AATLFVVVTFVRYNDTPIVKASGRELSYVLL
AGIFLCYATTFLMIAEPDLGTCSLRRIFLGLGMSISYAALLTKTNRIYRIFEQGRSVSAPRFISPASQL
AITFVLISLQLLGICVWFVVDPSHSVVD FQDQRTLDPRFARGVLKCDISDLSLICLLGYSMLLMVTCTVY
AIKTRGVPETFNEAKPIGFTMYTTCIVWLA FIPIFFGTSQSADKVTSEALPVEFSPPLLAHN

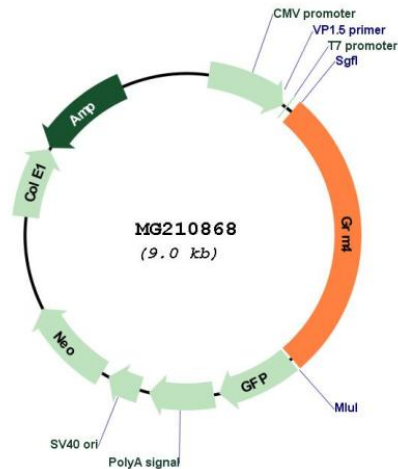
TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:


ACCN: NM_001013385

ORF Size: 2496 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:

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_001013385.2](#)

RefSeq Size: 3002 bp

RefSeq ORF: 2499 bp

Locus ID: 268934

UniProt ID: [Q68EF4](#)

Cytogenetics: 17 A3.3

Gene Summary: G-protein coupled receptor for glutamate. Ligand binding causes a conformation change that triggers signaling via guanine nucleotide-binding proteins (G proteins) and modulates the activity of down-stream effectors. Signaling inhibits adenylate cyclase activity (By similarity). [UniProtKB/Swiss-Prot Function]