

Product datasheet for MR223498

Grm1 (NM_016976) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Grm1 (NM_016976) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Grm1
Synonyms:	4930455H15Rik; ENSMUSG00000075319; Gm10828; Gprc1a; mGluR1; nmf373; rcw; wob1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR223498 representing NM_016976 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTCCGGCTCCTCTTGATTTTCTTCCCAATGATCTTTTTGGAGATGTCCATTTTGCCAGGATGCCTG
ACAGAAAAGTACTGCTGGCAGGTGCCTCGTCCCAGCGCTCTGTGGCGAGAATGGACGGAGATGTCATCAT
CGGAGCCCTCTTCTCAGTCCATCACCAGCCTCCAGCCGAAAAGGTACCGAAAAGGAAGTGTGGGAGATC
AGAGAACAGTATGGTATCCAGAGAGTGGAGGCCATGTTCCACACATTAGATAAGATTAATCGGACCCGG
TGCTCCTGCCAACATCACTCTGGCAGTGGAGTCCGGGACTCCTGCTGGCACTTCTGTGGCTCTGGA
ACAGAGCATTGAGTTCATCAGAGACTCCCTGATTTCCATCCGAGATGAGAAGGATGGACTGAACCGCTGC
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CGCTATGACTATGTCCATGTGGGAACCTGGCATGAAGGTGTGCTGAATATCGATGATTACAAAATCCAGA
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Protein Sequence: >MR223498 representing NM_016976
 Red=Cloning site Green=Tags(s)

MVRLLLIFFPMIFLEMSILPRMPDRKVLLAGASSQRSVARMDGDVIGALFSVHHQPPAEKVPERKCGEI
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 LPDQQLPGRTRKKPIAGVIGPGSSVAIQVQNLQLFDIPQIAYSATSIDLSDKTLKYKFLRVVPSDTL
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 AFKTRNVPANFNEAKYIAFTMYTTCIIWLAFFVPIYFGSNYKIITTCFAVSLSVTVALGCMFPMKYIIIA
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 QRLSVHVKTNETACNQTAIVIKPLTKSYQGSGKSLTFSDASTKTLYNVEEDNTPSTHFSPPSSPSMVVHR
 RGPPVATTPPLPHLSAEETPLFLADSVIPKGLPPPLPQQQQPPPPQPKSLMDQLQGVVTFNGSG
 IPDFHAVLAGPPTGNLRSLYPPPPPPQLQMLPLQLSTFREEPI SPPGEDDDDDSSERFKLLQEFVYE
 REGNTEEDDLEEEEDLPAASKLTPEDSPALTPSPFRDSVASGSSVSPSPVSESLVCTPPNVTYASVILR
 DYKQSSSTL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9094_d11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

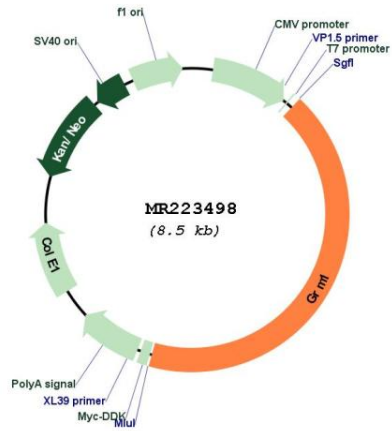


ACCN: NM_016976

ORF Size: 3597 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:	<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_016976.3 , NP_058672.1
RefSeq Size:	6922 bp
RefSeq ORF:	3600 bp
Locus ID:	14816
UniProt ID:	P97772
Cytogenetics:	10 A1
MW:	133.2 kDa
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 activates a phosphatidylinositol-calcium second messenger system. May participate in the central action of glutamate in the CNS, such as long-term potentiation in the hippocampus and long-term depression in the cerebellum (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR223498