

Product datasheet for **MR211136**

Grm1 (NM_001114333) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Grm1 (NM_001114333) 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)



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ORF Nucleotide Sequence:

>MR211136 representing NM_001114333
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGTCCGGCTCCTCTTGATTTTCTTCCAATGATCTTTTTGGAGATGTCCATTTTGCCAGGATGCCTG
 ACAGAAAAGTACTGCTGGCAGGTGCCTCGTCCCAGCGCTCTGTGGCGAGAATGGACGGAGATGTCATCAT
 CGGAGCCCTCTTCTCAGTCCATCACCAGCCTCCAGCCGAAAAGGTACCGAAAAGGAAGTGTGGGGAGATC
 AGAGAACAGTATGGTATCCAGAGAGTGGAGGCCATGTTCCACACATTAGATAAGATTAATGCGGACCCGG
 TGCTCCTGCCAACATCACTCTGGGCAGTGGAGTCCGGGACTCCTGCTGGCACTCTTCTGTGGCTCTGGA
 ACAGAGCATTGAGTTCATCAGAGACTCCCTGATTTCCATCCGAGATGAGAAGGATGGACTGAACCGCTGC
 CTGCCTGATGGCCAGACCCTACCCCGAGCAGGACTAAGAAGCCTATTGCTGGAGTATCGGCCCTGGCT
 CCAGCTCTGTGGCATTCAAGTCCAGAATCTTCTGCAGCTGTTGACATCCACAATCGCCTATTCTGC
 CACGAGCATAGACCTGAGCGACAAAACCTTGTACAAAATCTTCTGAGGGTGGTCCCTTCTGACACTTTG
 CAGGCAAGGGCGATGCTTGATATCGTCAAGCGGTACAACCTGGACCTATGTCTCTGACGTCCACACAGAAG
 GGAATTACGGCGAGAGTGAATGGATGCTTTCAAAGAGTTGGCTGCCAGGAAGGACTCTGCATCGCACA
 CTCGGACAAAATCTACAGCAATGCTGGCAGAAGAGCTTTGATCGGCTTCTGCGCAAGCTCCGAGAGCGG
 CTTCCCAAGGCCAGGGTTGTGGTCTGCTTCTGCGAGGGCATGACAGTGGGGGGTTACTGAGTGCCATGC
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 CGCTATGACTATGTCCATGTGGAACTGGCATGAAGGTGTGCTGAATATCGATGATTACAAAATCCAGA
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 GAAAGGGGAAGTGAAGTGTGCTGGATCTGCACAGCCTGCAAAGAGAATGAGTTTGTGCAAGATGAGTTT
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 GTTACCTCGAGTGGAGTGACATAGAATCCATCATAGCCATCGCCTTTTCTTGCCTGGGCATCCTCGTGAC
 GCTATTTGTACCCCTCATCTTTGTGCTGTACCGGGACACACCTGTGGTCAAATCCTCCAGTAGAGAGCTC
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 CCTGCATCATCTGGCTGGCTTTTGTCCATTTACTTTGGGAGCAACTACAAGATTATCACTACCTGCTT
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 GAAGAGGCAGCCAGAATTCTCGCCAGCAGCCAGTGTCCGTCCGCACATGTGCAGCTT

ACCGGTACGGCGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR211136 representing NM_001114333
Red=Cloning site Green=Tags(s)

MVRLLLIFFPMIFLEMSILPRMPDRKVLLAGASSQRSVARMDGDVIGALFSVHHQPPAEKVPERKCGEI
 REQYGIQRVEAMFHTLDKINADPVLLPNITL GSEIRDSCWHSSVALEQSI E F IRDSL I SIRDEK DGLNRC
 LPDQQTLPGRTKKPIAGVIGPGSSVAIQVQNLQLFDIPQIAYSATSIDLSDKTLKYFLRVVPSDTL
 QARAMLDIVKRYNWTYVSAVHTEGNYGESGMDAFKELAAQEGLCIAHSDKIYSNAGEKSFDRLLRKL RER
 LPKARVVVCFCEGMTVRGLLSAMRRLGVVGEFSLIGSDGWADRDEVI EGYEVEANGGITIKLQSPEVRSF
 DDYFLKLRDLTNRNPFPEFWQHRFQCRLPGHLL ENPNFKKVCTGNESLEENYVQDSKMGFVINAIYAM
 AHGLQNMHHALCPGYVGLCDAMKPIDGRKLLDFLIKSSFVGVSGEEVWFDEKGDAPGRYDIMNLQYTEAN
 RYDYVHVGTWHEGVLNIDDYKI QMNKSGMVRVCSEPC LKQIKVIRKGEVSCC WICTACKENEFVQDEF
 TCRACDLGWPN AELTGCEPITIRYLEWSDIESIIAIAF SCLGILVTLFVTLIFVLYRDPVVKSSSREL
 CYIILAGIFLGYVCPFTLIAKPTTSCYLQRLLVGLSSAMCYSALVTKTNRIARILAGSKKKICTRKPRF
 MSAWAQVIIASILISVQLTLVVTLIIMEPPMPILSYPSIKEVYLICNTSNLGVVAPVGYNGLLIMSCYY
 AFKTRNVPANFNEAKYIAFTMYTTCIIWLA FVPIYFGSNYKIITTCFAVSLSVTVALGCMF TPKMYIIIA
 KPERNVRSAFTTSDVVRMHVGDGKLP CRSN TFLNIFRRKKPGAGNAKKRQPEFSPSSQCPSAHVQL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

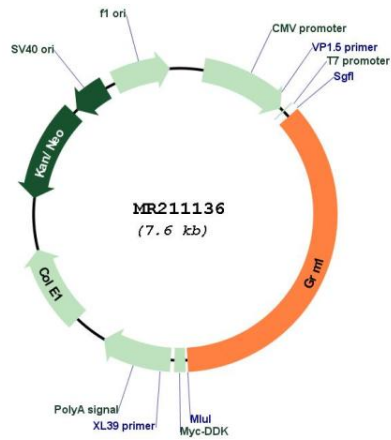
Cloning Scheme:



ACCN: NM_001114333

ORF Size:	2718 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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_001114333.1 , NM_001114333.2 , NP_001107805.1
RefSeq Size:	7007 bp
RefSeq ORF:	2721 bp
Locus ID:	14816
UniProt ID:	P97772
Cytogenetics:	10 A1
MW:	102.2 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 MR211136