

Product datasheet for **MR227391**

Grm5 (NM_001143834) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Grm5 (NM_001143834) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Grm5
Synonyms:	6430542K11Rik; AI850523; Glu5R; Gprc1e; mGluR5; mGluR5b
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR227391 representing NM_001143834 Red=Cloning site Blue=ORF Green=Tags(s)

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Protein Sequence: >MR227391 representing NM_001143834
 Red=Cloning site Green=Tags(s)

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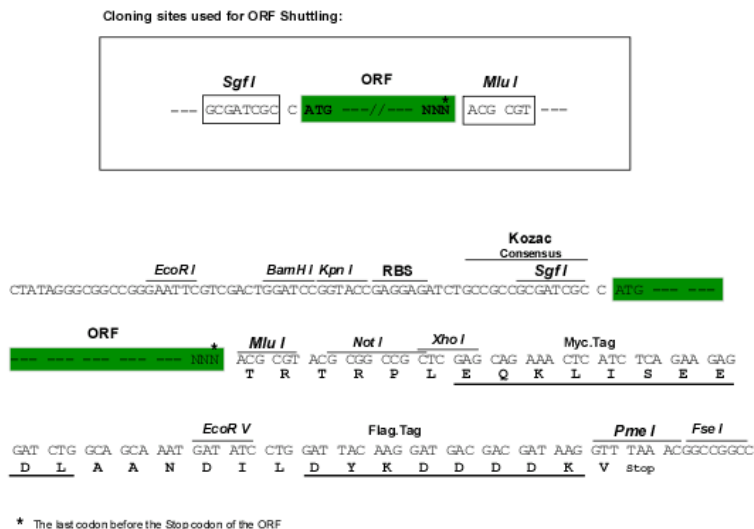
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Chromatograms: https://cdn.origene.com/chromatograms/mm9001_g10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

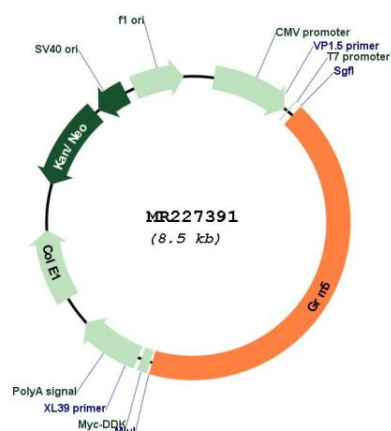


ACCN: NM_001143834

ORF Size: 3609 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_001143834.1 , NP_001137306.1
RefSeq Size:	8524 bp
RefSeq ORF:	3612 bp
Locus ID:	108071
UniProt ID:	Q3UVX5
Cytogenetics:	7 D3
MW:	132.3 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 and generates a calcium-activated chloride current. Plays an important role in the regulation of synaptic plasticity and the modulation of the neural network activity (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR227391