

Product datasheet for **MR215430**

Grik3 (NM_001081097) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Grik3 (NM_001081097) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Grik3
Synonyms:	9630027E11; Glu; GluK3; Glur; Glur-7; Glur7; GluR7-3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR215430 representing NM_001081097
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGACCGCTCCCTGGCGGCGCTCCGGAGTCTGGTTTGGGAATACTGGGCGGGTTCCTAGTGTGCGCT
 TCTGGATCCCAGACTCGCGGGGATGCCCCACGTCATCCGGATCGGAGGAATCTTTGAGTATGCGGATGG
 TCCCAACGCCCAGGTCATGAACGCTGAAGAGCACGCTTTTCGATTTTCTGCCAACATCATCAACAGAAAC
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Protein Sequence: >MR215430 representing NM_001081097
 Red=Cloning site Green=Tags(s)

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MTAPWRRRLRSLVWEYWAGFLVCAFWIPDSRGMPHVIRIGGIF EYADGPNAQVMNAEEHAFRFSANIINRN
RTLLPNTTLTYDIQRIHFHDSFEATKKACDQLALGVVAIFGPSQGSCTNAVQSI CNALEVPHIQLRWKHH
PLDNKDTFYVNLYPDYASLSHAIDLVLQSLKWSATVVYDDSTGLIRLQELIMAPSRYNIRLKIRQLPID
SDDSRPLLKEMKRGREFRIIFDCSHTMAAQILKQAMAMGMMTEYHFIFTTLDL YALDLEPYRYSGVNLT
GFRILNVDPHVS AIVEK WAMERLQAAPRAESGLLDGVMMDAALLYDAVHIVSVCYQRAPQMTVNSLQC
HRHKAWRFGGRFMNF IKAQWEGLTGRIVFNKTSGLRTDFDLDIISL KEDGLEKVGWSPADGLNITEVA
KGRGPNVTDLSL TNRS LIVTTVLEEFV MFRKSDRTL YGNDRFEGYCIDLLKELAHILGFSYEIRLVEDGK
YGAQDDKQWNGMVKEL IDHKADLAVAPLTI THVREKAIDF SKPFMTLGV S ILYRKPNGTNPSVFSFLNP
LSPDIWMYVLLAYLGVSCVLFVIARFSPYEWYDAHPCNP GSEVVENNFTLLNSFWFGMGS LMQQGS E LMP
KALSTR IIGGIWFFTLIISSY TANLAAFLTVERMESPID SADDLAKQTKIEYGA VKDGATMTFFKKS K
ISTFEKMWAFMSSKPSALVKNNEEGIQRTLADYALLMESTTIEYITQRNCNL TQIGGLIDSKGYGIGTP
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STSLAPVFP
  
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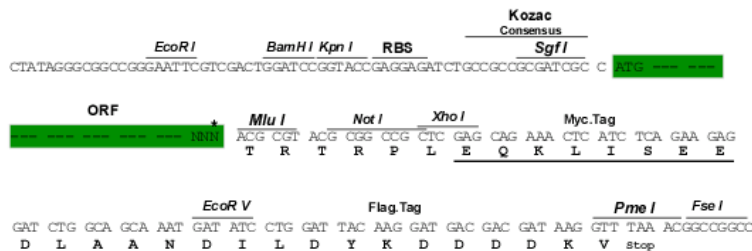
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9003_b05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



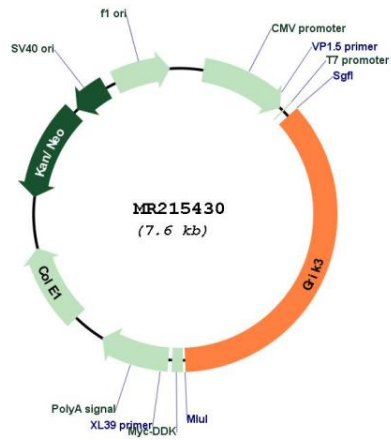
* The last codon before the Stop codon of the ORF

ACCN: NM_001081097

ORF Size: 2757 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_001081097.3
RefSeq Size:	8860 bp
RefSeq ORF:	2760 bp
Locus ID:	14807
UniProt ID:	B1AS29
Cytogenetics:	4 58.91 cM
MW:	104.5 kDa
Gene Summary:	Glutamate receptors are the predominant excitatory neurotransmitter receptors in the mammalian brain and are activated in a variety of normal neurophysiologic processes. This gene product belongs to the kainate family of glutamate receptors, which are composed of four subunits and function as ligand-activated ion channels. Transcript variants encoding different isoforms have been described for this gene, however, their full-length nature is not known. [provided by RefSeq, Jul 2008]

Product images:



Circular map for MR215430