

Product datasheet for **MR222517**

Grik1 (NM_146072) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Grik1 (NM_146072) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Grik1
Synonyms:	A830007B11Rik; D16lum2; D16lum24; D16lum24e; Glu; GluK; GluK1; GluK5; Glur; Glur-5; Glur5; Glurbe; Glurbeta1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR222517 representing NM_146072
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAGCGCGGCACAGTCTTATCCAACCCGGGCTCTGGACCAGGGACACCAGCTGGACACTCCTCTATT
 TCCTGTGCTACATCCTTCTCAGACCTCCCTCAAGTGCTCAGGATCGGAGGGATTTTTGAAACTGTGGA
 AAACGAACCTGTTAATGTTGAAGAATTAGCTTTCAAGTTGTCAGTACCAGTATTAACCGAAACCGAACC
 TTGATGCCAATACCACATTAACCTATGACATCCAGAGAATTAATCTTTTTGATAGTTTTGAAGCCTCCC
 GAAGAGCATGCGACCAACTGGCTCTTGGGGTGGCCGCCCTCTTCGGTCTTCCCACAGCTCCTCCGTCAG
 TGCTGTACAGTCTATTTGCAATGCTCTGGAAGTCCACACATTACAGTCTCGTGGAAACACCCTTCTGTG
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 GATGCCAAACCTCTGCTCAAGGAGATGAAGAAAGCAAGGAGTTCTATGTGATATTTGATTGTTCCGACG
 AGACGGCTGCTGAAATCTTAAGCAGATTTTGTTTCATGGGCATGATGACTGAATACTATCACTACTTCTT
 CACAACCTGGACTTGTTTGCTTTGGATCTGGAACCTACAGGTACAGTGGTGAATAATGACTGGATTT
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 TGGCCCTCTCACCATCACGTATGTACGGGAGAAAGTCAATGACTTCTCCAAGCCTTTCATGACTCTGGG
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 TCACACCTACGAGTGGTATAACCCCAACCCGTGCAACCTGACTCAGAGTGGTGGAAAACAATTCAC
 TTTGCTAAATAGTTTCTGGTTGGCGTTGGAGCTCTCATGCGGCAAGGATCGGAGCTGATGCCAAAGGCT
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 CG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR222517 representing NM_146072
 Red=Cloning site Green=Tags(s)

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MERGTVLIQPGLWTRDTSWTLLYFLCYILPQTSPQVLRIGGIFETVENEPVNVVEELAFKFAVTSINRNR
LMPNTTLYDIQRINLFDSEARRACDQLALGVAALFGPSHSSSVSAVQSDICNALEVPHIQTRWKHPSV
DNRDLFYINLYPDYAAISRVLDLVLYNWKTVT VVYEDSTGLIRLQELIKAPSRYNIKIKIRQLPSGNK
DAKPLLKEMKKGKEFYVIFDCSHETAEEILKQILFMGMMTEYYHYFFTTLDLFDLDELRYRSGVNMTGF
RLLNIDNPHVSSIIKWSMERLQAPRPETGLLDGVMTTEAALMYDAVYMVAIASHRASQLTVSSSLQCHR
HKPWRLGPRFMNLKEARWDGLTGRITFNKTDGLRKDFDLDIISLKEEGTEKIGIWNNSGLNMTDGNRD
RSNNITDSLNRTLIVTTILEEPPYMYRKSDKPLYGNDRFEGYCLDLLKELSNILGFLYDVKLVDPGKYG
AQNDKGEWNGMVKELIDHRADLAVAPLTITYVREKVIDFSKPFMTLGISILYRKPNGTNPGVFSFLNPLS
PDIWMYVLLACLGVSCVLFVIARFTPYEWYNPHPCNPDSVVENNFTLLNSFWFGVGMALMRQSELMPKA
LSTRIVGGIWWFFTLIISSYANLAAFLTVERMESPIDSAADLAKQTKIEYGAVRDGSTMFFKKSKIS
TYEKMWAFMSSRQQSALVKNSDEGIQRLVTTDYALLMESTSIEYVTQRNCNLQIGGLIDSKGYGVGTPI
GSPYRDKITIAILQLQEEGKLHMMKEKWWRGNGCPEEDSKEASALGVENIGGIFIVLAAGLVLSVFVAIG
EFYKSRKNNDIEQKGSRLRFYFRNKVRFHGSKTESLGVKCLSFNAIMEELGISLKNQKLLKKKSR
TKGSSFTSILTCHQRRTQRKETVA
  
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9003_a03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



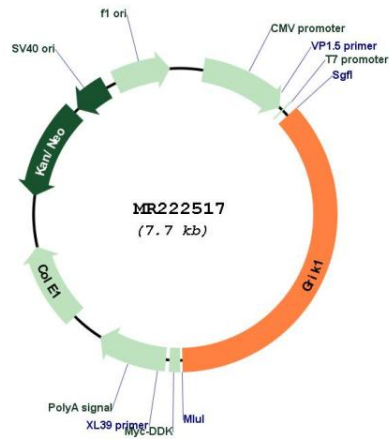
* The last codon before the Stop codon of the ORF

ACCN: NM_146072

ORF Size: 2802 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_146072.4 , NP_666184.2
RefSeq Size:	3660 bp
RefSeq ORF:	2805 bp
Locus ID:	14805
Cytogenetics:	16 50.23 cM
MW:	106.6 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. The subunit encoded by this gene is subject to RNA editing (CAG->CGG; Q->R) within the second transmembrane domain, which is thought to alter the properties of ion flow. Alternative splicing, resulting in transcript variants encoding different isoforms, has been noted for this gene. [provided by RefSeq, Jul 2008]

Product images:



Circular map for MR222517