

Product datasheet for **MG222519**

Grik1 (NM_010348) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Grik1 (NM_010348) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Grik1
Synonyms:	A830007B11Rik; D16lum2; D16lum24; D16lum24e; Glu; GluK; GluK1; GluK5; Glur; Glur-5; Glur5; Glurbe; Glurbeta1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG222519 representing NM_010348
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAGCGCGGCACAGTCTTATCCAACCCGGGCTCTGGACCAGGGACACCAGCTGGACACTCTCTATT
 TCCTGTGCTACATCCTTCTCAGACCTCCCTCAAGTGCTCAGGATCGGAGGGATTTTTGAAACTGTGGA
 AAACGAACCTGTTAATGTTGAAGAATTAGCTTTCAAGTTGACAGTACCAGTATTAACCGAAACCGAACC
 TTGATGCCAATACCACATTAACCTATGACATCCAGAGAATTAATCTTTTTGATAGTTTTGAAGCCTCCC
 GAAGAGCATGCGACCAACTGGCTCTTGGGGTGGCCGCCCTCTTCGGTCTTCCCACAGCTCTCCGTCAG
 TGCTGTACAGTCTATTTGCAATGCTCTGGAAGTCCACACATTACAGTCTCGTGGAAACACCCTTCTGTG
 GACAACAGAGACTTATTTACATCAACCTCTACCCAGATTATGCAGCTATCAGCAGGGCAGTCTGGATC
 TGGTCTCTATTACAACGGAAAACAGTGACGGTGGTGTACGAAGACAGCACAGGTCTAATTCGTCTGCA
 AGAGCTCATCAAAGCTCCCTCCAGATACAACATCAAATCAAATCCGCCAGCTTCCCTCTGGCAATAAG
 GATGCCAAACCTCTGCTCAAGGAGATGAAGAAAGCAAGGAGTTCTATGTGATATTTGATTGTTCCGACG
 AGACGGCTGCTGAAATCTTAAGCAGATTTTGTTTCATGGGCATGATGACTGAATACTATCACTACTTCTT
 CACAACCTGGACTTGTTTGCTTTGGATCTGGAACCTACAGGTACAGTGGTGAATAATGACTGGATTT
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 TGTGTACATGGTAGCCATCGCCTCTCACCGTGCCTCTCAGCTGACCGTCAGTTCCTGCAGTGCCATCGA
 CATAAGCCATGGCGCCTAGGACCCAGATTTATGAACCTCATCAAAGAGGGCGGGTGGGATGGCTTGACGG
 GGCGGATCACCTTCAATAAGACGGATGGCTTGAGAAAGGATTTGACCTGGACATTATCAGTCTCAAAGA
 GGAAGGAACTGAAAAGATTGGGATTTGGAACCTCAACAGTGGGCTGAACATGACGGATGGCAACAGAGAC
 AGGTCCAACAATATCACAGATTCGCTGGCTAACCGAACGCTCATTGTACCACACTTCTGGAAGAGCCCT
 ACGTGTATGACAGGAAATCCGATAAACCCTGTACGGAATGACAGATTTGAAGGATATTGCCTGGATCT
 GCTGAAAGAACTGCAAAATATCCTAGGTTTCTTTATGATGTTAAACTGGTTCCTGACGGCAAAATGGA
 GCCCAGAAATGACAAGGGGAGTGAACGGGATGGTTAAGGAACTCATCGACCACAGAGCTGACCTAGCAG
 TGGCCCTCTCACCATCACGTATGTACGGGAGAAAGTATTGACTTCTCCAAGCCTTTCATGACTCTGGG
 CATTAGCATCTTACCAGGAGCCCAATGGAACCAACCCCGCGCTTCTCCTTCTCAACCCCTGTCT
 CCAGACATTTGGATGTATGTGCTCCTCGCTAGGAGTCAAGTGTGTGCTTTTGTGATTGCAAGGT
 TCACACCTACGAGTGGTATAACCCCAACCCGTGCAACCTGACTCAGAGCTGGTGGAAAACAATTCAC
 TTTGCTAAATAGTTTCTGGTTGGCGTTGGAGCTCTCATGCGGCAAGGATCGGAGCTGATGCCAAAGGT
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 GAGGAACTGCAACCTCACTCAGATCGGGGCTCATAGACTCAAAGGCTATGGAGTGGGGACACCTATC
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 AGCTGGGAATCTCACTCAAGAATCAGAAAAAATTAAGAAAAAGTCAAGAATAAGGGCAATCTTCTTT
 CACAAGTATCCTTACTTGTATCAGAGACGAACCTCAGAGAAAAGAGACTGTGGCC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG222519 representing NM_010348
 Red=Cloning site Green=Tags(s)

MERGTVLIQPLWTRDTSWTLLYFLCYILPQTSPQVLRIGGIFETVENEPVNVEELAFKFAVTSINRRT
 LMPNTTLYDIQRINLFDSEARRACDQLALGVAALFGPSHSSVSVAVQSI CNALEVPHIQTRWKHPSV
 DNRDLFYINLYPDYAAISRVLDLVLYNWKTVT VVYEDSTGLIRLQELIKAPSRYNIKIKIRQLPSGNK
 DAKPLLKEMKKGKEFYVIFDCSHETA AEILKQILFMGMMTEYYHYFFTTLDLFDLDELRYRSGVNMTGF
 RLLNIDNPHVSSII EKWSMERLQAPRPETGLLDGVMTTEAALMYDAVYMVAIASHRASQLTVSSSLQCHR
 HKPWRLGPRFMNLIKEARWDGLTGRITFNKTDGLRKDFDLDIISLKEEGTEKIGIWNSSGLNMTDGNRD
 RSNNITDSLARNRTLIVTTILEEPYVMYRKSDKPLYGNDRFEGYCLDLLKELSNILGFLYDVKLVDPGKYG
 AQNDKGEWNGMVKELIDHRADLAVAPLTITYVREKVIDFSKPFMTLGISILYRKPNGTNPGVFSFLNPLS
 PDIWMYVLLACLGVSCVLFVIARFTPYEYWNPHPCNPDSDVVENNFTLLNSFWFGVGMALMRQGS ELMPKA
 LSTRIVGGIWWFFTLIISSYANLAAFLTVERMESPID SADDLAKQTKIEYGAVRDGSTMFFKKSKIS
 TYEKMWAFMSSRQQSALVKNSDEGIQ RVLTTDYALLMESTSIEYVTQRNCNL TQIGGLIDSKGYGVGTPI
 GSPYRDKITIAILQLQE EKLHMMKEKWWRGNGCPEEDSKEASALGVENIGGIFIVLAAGLVLSVFVAIG
 EFYKSRKNNDIEQCLSFNAIMEELGISLKNQK LKKKSRTKGKSFTSILTCHQRRTQRKETVA

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

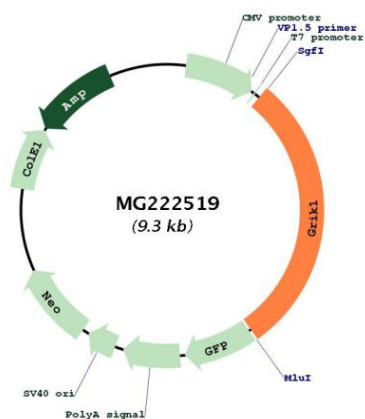
Cloning Scheme:



ACCN: NM_010348

ORF Size:	2715 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_010348.3 , NP_034478.1
RefSeq Size:	3573 bp
RefSeq ORF:	2718 bp
Locus ID:	14805
Cytogenetics:	16 50.23 cM
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 MG222519