

Product datasheet for **MC222845**

Grik4 (NM_175481) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Grik4 (NM_175481) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Grik4
Synonyms:	6330551K01Rik; GluK4; GluRgamma1; KA-1; KA1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF:

>MC222845 representing NM_175481

Red=Cloning site Blue=ORF Orange=Stop codon

 TTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCCCGTGTCTCCGCTCCTCTGGTGTCTTCTGCTTGGCTCTTGATGGTGGCTGTAGCCCACT
 CCTGAGGATTGCTGCTATCTTGGATGACCCCATGGAGTGCAGCAGAGGGGAACGGCTCTCCATCACCC
 GGCCAAGAACCGTATCAACCGCGCACCAGAGAGGCTGGGCAAGGCCAAGGTCGAAGTGGACATCTTTGAG
 CTTCTCAGAGACAGCGAGTACGAAACTGCAGAAACCATGTGTGAGATCCTCCCAAGGGTGTGGTCGCTG
 TCCTGGGACCATCGTCCAGCCCAGCCTCCAGCTCCATCATCAGCAACATCTGTGGAGAGAAGGAGTCCC
 TCATTTCAAGGTGGCCCCAGAGGAATTTGTGAGTTCCAACCTCCAGAGATTCACCACCCTGAACCTTAC
 CCCAGCAACACCGACATCAGCGTGGCTGTGGTGGGATCCTGAACTTCTCAACTGCACCACCGCTGCC
 TCATCTGTGCCAAAGCAGAATGCCTTTAAACCTGGAGAAGCTGCTCCGACAATTCCTTATCTCAAAGGA
 CAACTCTCGGTCCGGATGTTGGACGACACACGGGACCCACTCCACTCCTCAAGGAGATCCGGGATGAC
 AAGACAGTACTATCATCATCCACGCCAACGCCTCCATGTGCGACACCATCCTCCTGAAGGCAGCTGAAC
 TGGGGATGGTGTGAGCCTATTACACATACATCTTCAACATCTGGAGTCTCCCTCCAGAGAATGGACAG
 CTTGTGGATGATAGAGTCAACATCTTAGGATTTTCCATTTTCAACCAATCCCATGCATTCTTCAAAGAG
 TTCTCCAGAGCCTCAACCAATCCTGGCAGGAGAACTGTGACCATGTGCCCTTACCCGGCCCTGCCTTGT
 CCTCAGCCCTGCTGTTTACGCTGTCTATGCTGTGGTGCAGCGGTACAGGAACTGAACCGGAGCCAAGA
 GATTGGTGTGAAGCCCTGTCTGTGGCTCAGCCAGATCTGGCAGCATGGCACCAGCCTCATGAACTAC
 CTTGCGATGGTAGAATTGAAGGTCTTACCGGCCACATTGAATTAACAGCAAAGGCCAGAGGTCCAAC
 ATGCCTTGAAAATCTTACAGTTCACAGGAATGGGTTTCCAGCAGATTGGCCAGTGGCATGTGGCAGAGGG
 CCTCAGCATGGACAGCCGCCTTACGCCTCCAACATCTCTGACAGTCTTCAACACCACCCTGGTCGTC
 ACCACCATCCTGAAAACCCATACTTAATGCTGAAGGGGAACCACCAGGAGATGGAAGGCAATGACCGAT
 ATGAGGGATTCTGTGTGGACATGCTCAAGGAGTTGGTGTGAGATCCTACGTTCAACTACAAGATCCGCC
 TGTGGGGATGGTGTACGGGTACCTGAGGCCAACGGCACCTGGACAGGCATGGTTGGGGAGCTGATC
 GCTCGGAAAGCGGATCTGGCTGTGGCGGCCCTCACCATCACAGCGGAACGTGAGAAAGTATCGATTCT
 CCAAGCCATTGACGCTGGGAATTAGTATTCTTACAGAGTTCATATGGGACGACAGCCGGCTATTT
 CTCCTTCTGGATCCCTTTCTCCAGGAGTCTGGCTTTCATGCTTCTAGCTTATCTGGCGTCACTGT
 GTCCTTCTCTGGTGGCTCGGTTGACTCCTTATGAGTGGTACAGTCCACATCCTTGTGCGCAGGGCCGGT
 GTAATCTCCTGGTCAACCAAGTACTCCCTGGGCAACAGCCTCTGGTTTCCGGTTGGAGGCTTCATGACGA
 AGGCTCCACTATTGCCCTCGAGCTTGTCTACCCGCTGTGTGAGTGGTGTCTGGTGGGCATTACAGTTG
 ATCATCATCTCCTCTACACGGCCAACCTGGCAGCCTTCTGACTGTGACGCGCATGGAGGTGCCATTG
 AGTCTGTGGATGACCTGGCTGACCAGACTGCCATTGAGTATGGCAGGATTCATGGAGGCTCCAGCATGAC
 CTTCTTCCAAAATCCCGTTACCAAGCTACCAACGCATGTGGAACATGACTCCAAGCAGCCGAGT
 GTGTTGCGTGAAGAGCACGGAGGAGGGGATTGCCAGAGTGTGAATTCCAATTACGCCTTCTGCTGGAGT
 CTACCATGAATGAGTACTACCGCAGCGAACTGCAACCTCACTCAGATTGGGGCCCTGCTGGACACCAA
 GGGTATGGGATTGGCATGCCAGTCCGCTCAGTGTCCGGGATGAGTTCGACCTGGCCATTCTCCAGCTG
 CAGGAGAACAACCGCCTGGAAATCTGAAGCGGAAGTGGTGGGAAGGGGGAAAATGTCCCAAGGAGGAGG
 ACCATCGAGCCAAAGGCCTGGGAATGGAGAATATTGGTGAATCTTTGTGGTTCTTATTTGTGGTTAAT
 AGTGGCCATTTTTATGGCTATGCTGGAGTTTTGTGGACTCTCAGACACTCAGAAGCATCAGAGGTGCT
 GTGTGTCAGGAGATGGTGCAGAACTGCACAACATCATCTGTGCCAGGACAATATCCATCCCAGGGCGC
 GGCGCTCTGGAGGCTGCCACCCAGCCCCGGTCTGGAGGAGCGCCAGCCAGAGGCACAGCGACGCT
 CAGCAATGGCAAGCTATGTGGCCCGGGAGCCAGACCAGCTGGCGCAGAGACTGGCACAGGAGGCCCGCC
 CTAGTAGCTCAGGCTGCACGCACATCCGCGTGTGCCAGAGTGGCGCCGCTTCCAGGGCCTGCGGGCGC
 GACCGTCCAGCGCGCAGCGAGGAGAGCTGGAGTGGGACAAGACCACCAACAGCAGCGAGCCCGAGTA
 G

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-Mlul
ACCN:	NM_175481
Insert Size:	2871 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_175481.5 , NP_780690.2
RefSeq Size:	3488 bp
RefSeq ORF:	2871 bp
Locus ID:	110637
UniProt ID:	Q8BMF5
Cytogenetics:	9 23.8 cM
Gene Summary:	Receptor for glutamate. L-glutamate acts as an excitatory neurotransmitter at many synapses in the central nervous system. The postsynaptic actions of Glu are mediated by a variety of receptors that are named according to their selective agonists. This receptor binds kainate > quisqualate > glutamate >> AMPA (By similarity).[UniProtKB/Swiss-Prot Function]