

Product datasheet for **RN200121**

Grik3 (NM_00112716) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Grik3 (NM_00112716) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Grik3
Synonyms:	GluK3; gluR-7; GluR7
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

Fully Sequenced ORF: >RN200121 representing NM_00112716
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACCGCTCCCTGGCGGCGCTCCGGAGTCTGGTTTGGGAATACTGGGCGGGTTCCTCGTGTGCGCT
 TCTGGATCCCAGACTCGCGCGGATGCCCCACGTCATCCGGATCGCGGGAATCTTTGAGTACGCGGACGG
 CCCAACGCCAGGTCATGAACGCTGAGGAGCACGCCCTTCGGTTTTCTGCCAATATCATCAACAGGAAC
 AGAACTCTGTGCCAACACGACCCTGACTTACGACATTCAGAGGATTCACCTCCATGACAGTTTTGAGG
 CCACCAAGAAGGCTGTGACCAGTTGGCGCTCGGTGTGGTAGCCATCTTTGGGCCATCCCAGGGCTCCTG
 CACCAATGCCGTCCAGTCCATCTGCAATGCCTGGAGGTTCTCACATCCAACGCGCTGGAAGCACCCAC
 CCCCTGGACAACAAGGACACCTTCTACGTGAACCTTACCCCGACTACGCTCTCTCAGCCACGCCATCC
 TCGACTTGGTCCAGTCCCTCAAGTGGCGGTGAGCCACCGTAGTCTATGATGACAGTACAGGTCTCATCCG
 GCTGCAGGAGCTCATCATGGCTCCATCTAGGTACAACATCCGCCGAAGATTCGCCAGCTCCCCATCGAC
 TCCGATGACTCAGCCCCCTTGTCAAAGAGATGAAGCGGGGCGGGAGTTCGGTATCATCTTTGACTGCA
 GTCACACCATGGCAGCCAGATCCTCAAGCAGGCCATGGCCATGGGCATGATGACGGAATACTACCACTT
 CATCTTACCACCTCTGGATCTCTATGCGTAGACCTGGAACCCTACCGCTACTCGGGAGTGAACCTGACT
 GGGTTCGCATACTCAACGTGGACAACCCCATGTCTCAGCCATTGTGGAGAAGTGGTCCATGGAGCGGC
 TACAGGACAGTCCCCGGGAGAGTCAAGGCTGCTGGATGGAGTGTGATGACCGATGCAGCCCTGCTCTA
 CGATGGGTCCACATTGTGTCTGTGTCTACCAGCGAGCGCCGAGATGACTGTGAACTCCCTACAGTGC
 CATCGGCACAAGGCTGGCGCTTCGGTGGCGCTTCATGAACTTCATCAAGGAGGCTCAATGGGAAGGAT
 TAACTGGACGGATTGTTTTCAACAAAACACTAGTGGCTTGGGACTGATTTTGATCTGGACATCATCAGCCT
 CAAGGAAGATGGCTCGAGAAGGTGCGGGTGTGGAGTCCAGCTGACGGTCTCAATACACTGAGGTTGCC
 AAAGGCCGAGGTCTAATGTCACCGACTCTCTGACCAACAGGTCACTCATCGTACCACCTCTGCTGGAGG
 AGCCTTTTGTGATGTTCCGCAAGTCTGATAGGACCCTTACGGCAATGACCGGTTGAGGGCTACTGCAT
 CGACTTGTCAAGGAGTGGCGCACATCTGGGCTTCTCCTACGAGATCCGGCTGGTGAAGACGGCAAG
 TACGGGGCACAGGACGACAAGGGCCAGTGAACGGCATGGTCAAGGAACTCATTGACCACAAAGCAGATC
 TGGCTGTGGCTCCCTGACCATACCCATGTCCGAGAGAAGGCCATTGACTTCTTAAGCCTTTTATGAC
 CCTCGGAGTGAGCATTTATATCGAAAACCAATGGCACCAACCCAGTGTCTTCTCCTCTCAACCCC
 CTGTCCCAGACATCTGGATGTACGTGCTACTCGCTACCTGGGTGTCAGCTGTGTCTCTTCGTCATTG
 CCAGATTCAGCCCTTATGAATGGTATGATGCCACCCCTGCAACCCCGGCTCTGAGGTGGTGGAGAATAA
 CTTACGCTGCTCAACAGCTTCTGGTTTGAATGGGCTCCCTGATGCAACAAGGATCTGAACTGATGCC
 AAAGCTCTGTCTACCCGCATCATTGGCGGCATCTGGTGGTTCTTACCCTTATTATCATCTCCTCTACA
 CGGCCAACCTGGCTGCCTTCTGACCGTGGAGCGCATGGAGTCAACCCATCGACTCTGCCGATGACCTGGC
 CAAGCAGACCAAAATAGAGTACGGTGTGTCAAGGATGGGGCCACCATGACCTTCTTCAAGAAATCCAAG
 ATCTCCACCTTTGAGAAGATGTGGGCTTCATGAGCAGCAAGCCCTCGGCTCTGGTGAAGAAATGAGG
 AGGGCATCCAGCGGACACTCACAGTACTACGCTCTGCTCATGGAGTCCAGACCATAGAGTACATCAC
 ACAAAGGAACTGCAATCTCACCCAGATCGGCGGCTCATCGATTCCAAGGGCTACGCGATCGGCACGCCC
 ATGGGCTCCCCCTACAGGGACAAAATCACCATCGCCATTCTGCAGCTGCAGGAGGAGGACAAGCTGCACA
 TCATGAAGGAGAAGTGGTGGCGAGGACGCGGTGCCCGAGGAGGAGAACAAGGAGGCCAGCGCACTGGG
 CATCCAGAAGATTGGCGGCATCTTCATCGTCTGGCTGCCGGCTTAGTCTGTCCGTGTTGGTGGCAGTG
 GGCGAGTTTATATAAACTCCGCAAGACAGCGGAACGGGAGCAGCGCTCTTCTGCAGCACAGTGGCCG
 ACGAGATCCGCTTCTCCCTCACCTGCCAGCGGCTCTCAAGCACAAGCCACAGCCTCTATGATGGTCAA
 GACAGATGCGGTTATCAACATGCACACCTTAAATGACCGAAGGCTTCCAGGCAAGGACAGCATGAGCTGC
 AGCACCTCGCTAGCCCCGTCTTCCCT**TAG**

ACGCGTACGCGGCGGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN:	NM_001112716
Insert Size:	2760 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:	<u>NM_001112716.1</u> , <u>NP_001106187.1</u>
RefSeq Size:	3594 bp
RefSeq ORF:	2760 bp
Locus ID:	298521
UniProt ID:	<u>P42264</u>
Cytogenetics:	5q36
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. Compared to other kainate or AMPA receptors, this subunit exhibits a lower sensitivity to glutamate, and thus may play a unique role in neurotransmission in the brain. Alternatively spliced transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq, Jul 2008] Transcript Variant: This variant (1, also known as GluR7a) encodes the longer isoform (1).