

Product datasheet for **RN213098**

Grik2 (NM_019309) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Grik2 (NM_019309) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Grik2
Synonyms:	GluK2; GluR6
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN213098 representing NM_019309
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAAGATTATTTCCCCAGTTTTAAGTAATCTAGTCTTCAGTCGCTCCATTAAAGTCCTGCTCTGCTTAT
 TGTGGATCGGATATTCGCAAGGAACACACATGTGTTAAGATTCCGGTGGTATATTTGAATATGTGGAATC
 TGGCCCCATGGGAGCAGAAGAAGCTTGCATTTCAGATTTGCTGTGAATACCATCAACAGAAACAGGACTTTG
 CTGCCAACACCACTTTAACTTATGATACTCAGAAGATCAATCTCTATGACAGTTTTGAAGCATCTAAGA
 AAGCTTGTGATCAGCTGTCTCTTGGGGTGGCTGTATCTTCGGTCTTCACACAGTTCATCAGCCAAATGC
 TGTGCAGTCCATCTGCAATGCTCTGGGGTTCACACATACAGACCCGCTGGAAGCACCAGGTGTCAGAC
 AACAGGATTCCTTCTACGTCAGTCTTACCCAGACTTCTTCCCTGAGCCGCCATCTTGGATTTGG
 TGCAGTTTTTAAAGTGGAAAAGTGTACAGTTGTGTATGACGACAGCACTGGTCTCATTGCTTGAAGA
 GCTCATCAAAGCTCCATCGAGGTACAATCTTCGACTTAAAATTCGTGAGTCCAGCTGATACCAAAGAT
 GCAAAACCTTTGCTGAAGGAGATGAAAAGAGGCAAGGAGTCCACGTGATCTTCGACTGCAGCCATGAGA
 TGGCAGCAGGCATTTTAAACAGGCATTAGCTATGGGAATGATGACAGAATACTATCACTATATATTTAC
 AACTCTGGACCTCTTTGCTCTTGACGTGGAGCCCTACAGATACAGTGGCGTAAATATGACAGGGTTCAGG
 ATACTAAATACAGAGAATACCAAGTCTCCTCCATCATCGAAAAGTGGTCTATGGAACGGTTACAGGCGC
 CTCCAAAACCTGACTCAGGTTTGGTGGATTTATGACGACTGATGCTGCTCTGATGTATGATGCAGT
 GCACGTTGTGTCTGTGGCTGTCCAACAGTTTCCCAGATGACAGTCAGCTCCTTGAATGCAATCGACAC
 AAACCTGGCGCTTTGGGACCCGCTTATGAGTCTAATTAAGAGGCTCACTGGGAAGGTCTCACAGGCA
 GAATAACATTTAAACAAAACCAATGGATTACGGACAGATTTTGGATTTGGATGTGATCAGTCTCAAGGAAG
 AGGTCTGAGAGAAGATTGGAACCTGGGATCCAGCCAGTGGCCTGAATATGACAGAAAAGTCAGAAAAGGAAAG
 CCAGCAAATATCACAGACTCATTGTCTAATCGTCTTTGATTGTTACCACCATTTTGAAGAACCCTATG
 TTCTGTTTAAAGAAGTCTGACAAACCACTCTATGGGAATGATCGATTTGAAGGCTACTGTATTGATCTCT
 ACGAGAGTTATCTACAATCCTTGGCTTTACATATGAGATTAGGCTTGTGGAGGATGGGAAATATGGAGCC
 CAGGATGATGTGAACGGACAATGGAATGGAATGGTTCGTGAATAATCGATCATAAAGCTGACCTTGCAG
 TTGCTCCACTGGCTATAACCTATGTTCTGTGAGAAGTTCATCGACTTTTCAAAGCCGTTTATGACACTTGG
 AATAAGTATTTGTACCGCAAGCCCAATGGTACAACCCAGGCGTCTTCTCTTCTGAATCCTCTCTCC
 CCTGATATCTGGATGTATGTTCTGCTGGCTTGGTGGGTGTCAGTTGTGTGCTCTTGTGCATAGCCAGGT
 TTAGTCCCTATGAGTGGTATAACCCACACCCCTTGAACCCCTGACTCAGAGCTGGTGGAAAACAATTTTAC
 CTTGCTAAATAGTTTCTGGTTTGGAGTTGGAGCTCTCATGCGGCAAGGTTCTGAGCTCATGCCAAAGCA
 CTCTCCACCAGGATAGTGGGAGGCATTTGGTGGTTTTTACACTTATCATCATTTCTTCTGATACCGCTA
 ACCTAGCCGCCTTTCTGACTGTGGAACGCATGGAGTCGCCATTGACTCTGCTGACGATTTAGCTAAGCA
 AACCAAGATAGAGTATGGAGCAGTGGAGGACGGCGCAACCATGACGTTTTTTAAGAAATCAAAAATTTCA
 ACGTATGATAAAATGTGGCGTTTATGAGCAGCAGGAGACAGTCTGTGCTTGTCAAAGCAATGAGGAAG
 GGATCCAACGAGTCCCTCACCTCGGATTAATGCTTCTTAATGGAGTCAACAACCATCGAGTTTGTACACA
 GCGGAACCTGTAACCTCACGCAGATTGGCGCCTTATAGACTCAAAGGCTATGGCGTTGGCACTCCTATG
 GGCTCTCCATATCGAGACAAAATCACCATAGCAATTTCTCAGCTGCAGGAGGAAGCAAGCTGCACATGA
 TGAAGGAGAAATGGTGGCGGGCAATGGCTGCCAGAGGAGGAGACAAAGAGGCCAGTGTCTGGGGGT
 GCAGAATATTGGTGGTATCTTATTGCTCTGGCAGCCGGCTTGGTGTCTCAGTTTTTGTGGCAGTGGGA
 GAGTTTTTATACAAATCCAAAAAAACGCTCAATTGGAAAAGAGGTCTTCTGTAGCGCTATGGTGGAAAG
 AGCTGAGAATGTCCTGAAGTGCCAGCGTCGGCTCAAACATAAGCCACAGGCCCCAGTTATTGTGAAAAC
 AGAAGAAGTTATCAACATGCACACATTTAACGACAGAAGGTTGCCAGGTAAGAAACCATGGCATGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul
ACCN: NM_019309

Insert Size:	2727 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_019309.2</u> , <u>NP_062182.1</u>
RefSeq Size:	3058 bp
RefSeq ORF:	2727 bp
Locus ID:	54257
UniProt ID:	<u>P42260</u>
Cytogenetics:	20q13
Gene Summary:	forms a homomeric glutamate receptor that is activated by kainate, quisqualate, and L-glutamate but not by AMPA [RGD, Feb 2006]