

Product datasheet for **RR217383**

Grik5 (NM_031508) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Grik5 (NM_031508) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Grik5
Synonyms:	GluK5; iGlu5
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide Sequence:

>RR217383 representing NM_031508
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

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 TGCATGCGTCAATCCTGGACGACCAGACCGTGTGGCCGTGGTGGAGCTCTGGCCCTGGCCCTGGC
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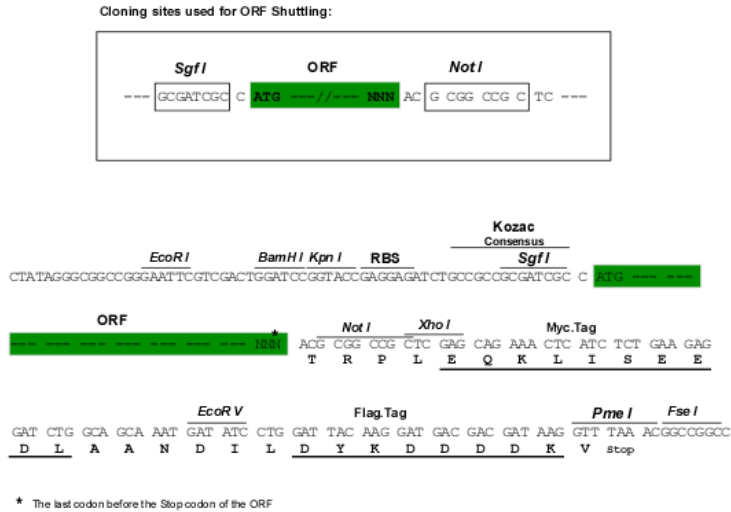
Protein Sequence: >RR217383 representing NM_031508
 Red=Cloning site Green=Tags(s)

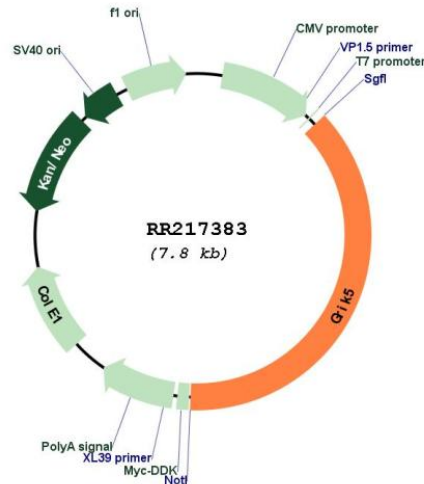
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 T ILENPYVMRRPNFQALSGNERFEGFCVDMLRELAELLRFYRLRLVEDGLYGAPEPNGSWTGMV GELIN
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 LFLAARLSPYEWYNPHCLRARPHILENQYTLGNLWFPVGGFMQQGSEIMPRALSTRCVSGVWVAFTLI
 I ISSYANLA AFLTVQRMEVPVESADDLADQTNIEYGTIHAGSTMTFFQNSRYQTYQRMWNMQSKQPSV
 FVKSTEEGIARVLNSRYAFLLESTMNEYHRR LNCNL TQIGLLDTKGYGIGMPLGSPFRDEITLAILQLQ
 ENNRLEILKRKWWEGGRCPKEEDHRAKGLGMENIGGIFVVLICGLIIAVFVAVMEFIWSTRRS AESEEV S
 VCQEMLQELRHAVSCRKTSR SRRRRRPPGSPRALLSLRAVREMRLSNGKLYSAGAGGDAGAHGGPQRLLD
 DP GPPGPRPQAPT PCTHVRVCQECRRIQALRASGAGAPPRGLGTPAEATSPPRPRPGPTPREL TEHE

TRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-NotI

Cloning Scheme:



Plasmid Map:


ACCN: NM_031508

ORF Size: 2937 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:

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_031508.2](#), [NP_113696.1](#)

RefSeq Size: 3776 bp

RefSeq ORF: 2940 bp

Locus ID: 24407

UniProt ID: [Q63273](#)

Cytogenetics: 1q21

MW: 109.3 kDa

Gene Summary: glutamate receptor subunit KA2; associates with subunits of the GluR5-7 family to form heteromeric kainate-preferring glutamate receptors [RGD, Feb 2006]