

Product datasheet for **RC221197**

GRINA (NM_001009184) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GRINA (NM_001009184) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GRINA
Synonyms:	HNRGW; LFG1; NMDARA1; TMBIM3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC221197 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCCCATGAAAAGAGTTTTTTGGTGTCTGGGACAACATCCTCCCCCAACCCTGGATATCCGGGGG
GGCCCCAGCCACCCATGCCCCCTATGCTCAGCCTCCCTACCCTGGGGCCCCTTACCCACAGCCCCCTT
CCAGCCCTCCCCCTACGGTCAGCCAGGGTACCCCATGGCCCCAGCCCCTACCCCAAGGGGGCTACCCA
CAGGGTCCCTACCCCAAGGGGGCTACCCACAGGGCCCCTACCCACAAGAGGGCTACCCACAGGGCCCCT
ACCCCAAGGGGGCTACCCCAAGGGGCCATATCCCAGAACCCTTCCCCCAACCCTATGGACAGCC
ACAGGTCTTCCCAGGACAAGACCCTGACTACCCAGCATGGAACTACCAGGAGAGGGTCCCCATCC
TACTATGACAACCAGGACTTCCCTGCCACCAACTGGGATGACAAGAGCATCCGACAGGCCTTCATCCGCA
AGGTGTTCTAGTGTGACCTTGACGCTGTGCGTGACCCTGTCCACGGTGTCTGTGTTCACTTTTGTTC
GGAGGTGAAGGGCTTTGTCCGGGAGAAATGTCTGGACCTACTATGTCTCCTATGCTGTCTTCTTCACTCT
CTCATCGTCTCAGCTGTTGTGGGACTTCCGGCGAAAGCACCCCTGGAACCTTGTGCACTGTCGGTCC
TGACCGCCAGCCTGTGTCATGGTGGGATGATCGCCAGCTTCTACAACACCGAGGCAGTCATCATGGC
CGTGGGCATCACACAGCCGTCTGCTTACCCTGTCATCTTCCATGCAGACCCGCTACGACTTCACC
TCATGCATGGGCGTCTCCTGGTGAGCATGGTGGTGTCTTTCATCTTCCGCACTTCTGCATCTTCATCC
GGAACCGCATCCTGGAGATCGTGTACGCTCACTGGGCGCTCTGCTTTCACCTGCTTCCCTCGCAGTGGA
CACCCAGCTGCTGCTGGGAAACAAGCAGCTGTCCCTGAGCCAGAAGAGTATGTGTTGCTGCGCTGAAC
CTGTACACAGACATCATCAACATCTTCTGTACATCCTCACCATCATTGGCCGCGCAAGGAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >RC221197 protein sequence
Red=Cloning site Green=Tags(s)

MSHEKSFLVSGDNYPNPGYPGGPQPPMPYAQPPYPGAPYPQPPFQSPYQPGYPHGSPYPQGGYP
 QGPYPQGGYPQGPYPQEGYPQGPYPQGGYPQGPYPQNPFPNPGYPQVFPQDPDPQHGNYQEEGPPS
 YYDNQDFPATNWDDKSIRQAFIRKVFLVLTQLSVTLSTVSVFTFVAEVKGFVRENVWYVYSYAVFFIS
 LIVLSCCGDFRRKHPWNLVALSVLTASLSYMGMIASFYNTEAVIMAVGITTAVCFTVVIFSMQTRYDFT
 SCMGVLLVSMVVLFFIFAILCIFIRNRILEIVYASLGALLFTCFLAVDTQLLLGNKQLSLSPVEYVFAALN
 LYTDIINIFLYILTIIGRAKE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6672_b02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001009184

ORF Size: 1113 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_001009184.1](#), [NP_001009184.1](#)

RefSeq Size: 1874 bp

RefSeq ORF: 1116 bp

Locus ID: 2907

UniProt ID: [Q7Z429](#)

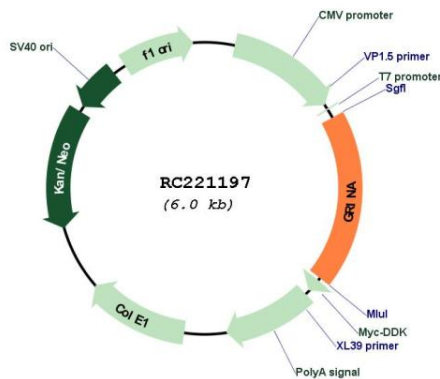
Cytogenetics: 8q24.3

Protein Families: Druggable Genome, Transmembrane

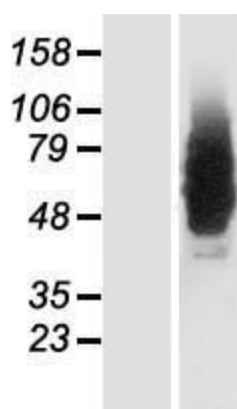
MW: 41.2 kDa

Gene Summary: Potential apoptotic regulator.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC221197



Western blot validation of overexpression lysate (Cat# [LY422906]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC221197 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).