

Product datasheet for RC228138

NRG1 (NM_001160005) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NRG1 (NM_001160005) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NRG1
Synonyms:	ARIA; GGF; GGF2; HGL; HRG; HRG1; HRGA; MST131; MSTP131; NDF; NRG1-IT2; SMDF
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC228138 representing NM_001160005 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGTCCGAGCGCAAAGAAGGCAGAGGCCAAAGGGAAGGCAAGAAGAAGGAGCGAGGCTCCGCAAGAAGC
CGGAGTCCGCGGGCCAGCCAGAGCCCAGCCTTGCCCTCCCGATTGAAAGAGATGAAAAGCCAGGAATC
GGCTGCAGGTTCCAACTAGTCCTTCGGTGTGAAACCAGTTCTGAATACTCCTCTCAGATTCAAGTGG
TTCAAGAATGGGAATGAATTGAATCGAAAAACAACCAAAATATCAAGATACAAAAAGCCAGGGA
AGTCAGAACTTCGATTAACAAAGCATCACTGGCTGATTCTGGAGAGTATATGTGCAAAGTGATCAGCAA
ATTAGGAAATGACAGTGCCTCTGCCAATATCACCATCGTGAATCAAACGCTACATCTACATCCACCACT
GGGACAAGCCATCTTGATAAATGTGCGGAGAAGGAAAACTTTCTGTGTGAATGGAGGGGAGTGCCTCA
TGGTGAAGACCTTTCAAACCCCTCGAGATACTTGCAAGTGCCCAATGAGTTTACTGGTGATCGCTG
CCAAACTACGTAATGGCCAGCTTCTACAGTACGTCCACTCCCTTTCTGTCTCTCGCTGAA

ACGCGTACGCGCGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:	>RC228138 representing NM_001160005 Red=Cloning site Green=Tags(s)
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MSERKEGRGKGKGGKKKERGSGKKPESAAGSQSPALPPRLKEMKSQESAAGSKLVLCETSSEYSSLRFKW
FKNGNELNRKNKPNQIKIQKKPGKSELRINKASLADSGEYMCKVISKLGNDASANITIVESNATSTSTT
GTSHLVKCAEKEKTFVNGGECFMVKDLNPSRYLCKCPNEFTGDRCONYMASFYSTSTPFLSLPE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:	SgfI-MluI
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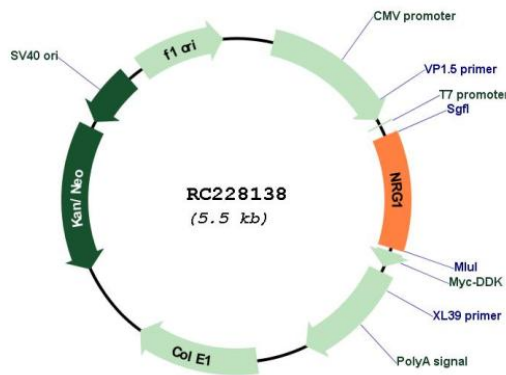


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001160005

ORF Size: 621 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_001160005.1](#), [NP_001153477.1](#)

RefSeq ORF: 624 bp

Locus ID: 3084

UniProt ID: [Q02297](#)

Cytogenetics: 8p12

Protein Families: Druggable Genome, Secreted Protein, Transcription Factors, Transmembrane

Protein Pathways: ErbB signaling pathway

MW: 22.5 kDa

Gene Summary: The protein encoded by this gene is a membrane glycoprotein that mediates cell-cell signaling and plays a critical role in the growth and development of multiple organ systems. An extraordinary variety of different isoforms are produced from this gene through alternative promoter usage and splicing. These isoforms are expressed in a tissue-specific manner and differ significantly in their structure, and are classified as types I, II, III, IV, V and VI. Dysregulation of this gene has been linked to diseases such as cancer, schizophrenia, and bipolar disorder (BPD). [provided by RefSeq, Apr 2016]