

Product datasheet for **RG220134**

NRG1 (NM_013956) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NRG1 (NM_013956) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NRG1
Synonyms:	ARIA; GGF; GGF2; HGL; HRG; HRG1; HRGA; MST131; MSTP131; NDF; NRG1-IT2; SMDF
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG220134 representing NM_013956
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCGAGCGCAAAGAAGGCAGAGGCAAGGGAAGGCAAGAAGAAGGAGCGAGGCTCCGCAAGAAGC
 CGGAGTCCGCGCGGGCAGCCAGAGCCAGCCTTGCCCTCCCAATTGAAAGAGATGAAAAGCCAGGAATC
 GGCTGCAGGTTCCAAACTAGTCCTTCGGTGTGAAACCAGTTCTGAATACTCCTCTCAGATTCAAGTGG
 TTCAAGAATGGGAATGAATTGAATCGAAAAACAAACCACAAAATATCAAGATACAAAAAGCCAGGGA
 AGTCAGAACTTCGCATTAACAAAGCATCACTGGCTGATTCTGGAGAGTATATGTGCAAAGTGATCAGCAA
 ATTAGGAAATGACAGTGCCTCTGCCAATATCACCATCGTGAATCAAACGAGATCATCACTGGTATGCCA
 GCCTCACTGAAGGAGCATATGTGTCTCAGAGTCTCCATTAGAATATCAGTATCCACAGAAGGAGCAA
 ATACTTCTCATCTACATCTACATCCACCCTGGGACAAGCCATCTTGAAAATGTGCGGAGAAGGAGAA
 AACTTTCTGTGTGAATGGAGGGGAGTGCTTCATGGTGAAGACCTTTCAAACCCCTCGAGATACTGTGC
 AAGTGCCCAAATGAGTTTACTGGTGATCGCTGCCAAAACCTACGTAATGGCCAGCTTCTACAAGCATCTTG
 GGATTGAATTTATGGAGGCGGAGGAGCTGTACCAGAAGAGAGTGCTGACCATAACCCGGCATCTGCATCGC
 CCTCCTTGTGGTCGGCATCATGTGTGTGGTGGCCTACTGCAAAACCAAGAAAACAGCGGAAAAAGCTGCAT
 GACCGTCTTCGGCAGAGCCTTCGGTCTGAACGAAACAATATGATGAACATTGCCAATGGGCCTCACCATC
 CTAACCCACCCCGAGAATGTCCAGCTGGTGAATCAATACGTATCTAAAAACGTATCTCCAGTGAGCA
 TATTGTTGAGAGAGAAGCAGAGACATCCTTTTCCACCAGTCACTATACTTCCACAGCCCATCACTCCACT
 ACTGTCAACCAGACTCCTAGCCACAGCTGGAGCAACGGACACACTGAAAGCATCCTTTCCGAAAGCCACT
 CTGTAATCGTGATGTCATCCGTAGAAAACAGTAGGCACAGCAGCCCAACTGGGGGCCAAAGAGGAGCTCT
 TAATGGCACAGGAGGCCCTCGTGAATGTAACAGCTTCTCAGGCATGCCAGAGAAAACCCCTGATTCTTAC
 CGAGACTCTCCTCATAGTGAAAGGTATGTGTGAGCCATGACCACCCGGCTCGTATGTACCTGTAGATT
 TCCACACGCCAAGCTCCCCAAATCGCCCCCTTCGAAATGTCTCCACCCGTGTCCAGCATGACGGTGTG
 CATGCCTTCCATGGCGGTGAGCCCTTTCATGGAAGAAGAGAGACCTTACTTCTCGTGACACCACCAAGG
 CTGCGGGAGAAGAAGTTTGACCATACCCTCAGCAGTTTCACTTCCACCACAACCCCGCATGACA
 GTAACAGCCTCCCTGCTAGCCCCTTGGAGATAGTGAGGATGAGGAGTATGAAACGACCCAAGAGTACGA
 GCCAGCCAAGAGCCTGTTAAGAACTCGCCAATAGCCGGCGGGCCAAAAGAACCAAGCCCAATGGCCAC
 ATTGCTAACAGATTGGAAGTGGACAGCAACACAAGCTCCCAGAGCAGTAACTCAGAGAGTGAACAGAAG
 ATGAAAGAGTAGGTGAAGATACGCCTTCTGGGCATACAGAACCCCTGGCAGCCAGTCTTGAGGCAAC
 ACCTGCCTTCGCTGGCTGACAGCAGGACTAACCAGCAGTCCGCTTCTCGACACAGGAAGAAATCCAG
 GCCAGGCTGTCTAGTGAATTGTAACCAAGACCTATTGCTGTA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG220134 representing NM_013956
 Red=Cloning site Green=Tags(s)

MSEKKEGRGKGGKKKERGSKPEAAGSQSPALPPQLKEMKSQESAAGSKLVLRCESSSEYSSLRFKW
 FKNGNELNRKNKPNQIKIQKPKGKSELINKASLADSGEYMCKVISKLGNDASANITIVESNEIITGMP
 ASTEGAYVSSSPIRISVSTEGANTSSSTSTSTGTSHLVKCAEKEKTFVNGGECFMVKDLSNPSRYLC
 KCPNEFTGDRQNYVMASFYKHLGIEFMEAEELYQKRVLTTGICIAALLVVGIMCVVAYCKTKKQKRLH
 DRLRQSLRSERNMMNIANGPHHPNPPENVQLVNQYVSKNVISSEHIVEREAETSFSTSHYTSTAHHST
 TVTQTPSHSWSNGHTESILSESHSVIVMSSVENSRHSSPTGGPRGRLNGTGGPRECNLSFLRHARETPDSY
 RDSPHSERYVSAMTTPARMSPVDFHTPSSPKSPPSEMSPPVSSMTVSMPSMAVSPFMEERPLLLVTPPR
 LREKKFDHHPQFSSFHHPAHDNSLSPASPLRIVEDEEYETTQEYEPAQEPVKKLANSSRAKRTKPNGH
 IANRLEVDSNTSSQSSNSESETEDERVGEDTPFLGIQNPLAASLEATPAFRLADSRNPAVRFSTQEIIQ
 ARLSSVIANQDPIAV

TRTRPLE – GFP Tag – V

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



ACCN: NM_013956

ORF Size: 1935 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in *E. coli* are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_013956.2](#), [NP_039250.2](#)

RefSeq Size: 2583 bp

RefSeq ORF: 1938 bp

Locus ID: 3084

UniProt ID: [Q02297](#)

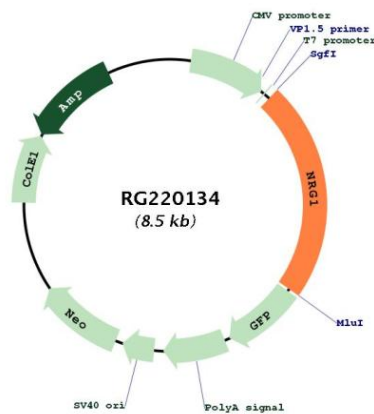
Cytogenetics: 8p12

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

Protein Pathways: ErbB signaling pathway

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]

Product images:



Circular map for RG220134