

## Product datasheet for **RG228508**

### **NRG1 (NM\_001159999) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	NRG1 (NM_001159999) 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:**

>RG228508 representing NM\_001159999  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGGAAAGGACGCGCGGGCCGAGTTGGCACCACAGCCTTGCCCTCCCCGATTGAAAGAGATGAAAAGCC  
 AGGAATCGGCTGCAGTTCCAACTAGTCTTCGGTGTGAAACCAGTTCTGAATACTCCTCTCAGATT  
 CAAGTGGTTCAAGAATGGGAATGAATTGAATCGAAAAACAAACCACAAAATATCAAGATACAAAAAAG  
 CCAGGGAAGTCAGAACTTCGCATTAACAAAGCATCACTGGCTGATTCTGGAGAGTATATGTGCAAAGTGA  
 TCAGCAAATTAGGAAATGACAGTGCCTCTGCCAATATCACCATCGTGAATCAAACGAGATCATCACTGG  
 TATGCCAGCCTCAACTGAAGGAGCATATGTGTCTTCAGAGTCTCCATTAGAATATCAGTATCCACAGAA  
 GGAGCAAATACTTCTCATCTACATCTACATCCACCCTGGGACAAGCCATCTTGTAAAAATGTGCGGAGA  
 AGGAGAAAACCTTCTGTGTGAATGGAGGGGAGTCTTCATGGTGAAGACCTTTCAAACCCCTCGAGATA  
 CTTGTGCAAGTGCCAAATGAGTTTACTGGTGATCGCTGCCAAAACCTACGTAATGGCCAGCTTCTACAAG  
 CATCTTGGGATTGAATTTATGGAGGCGGAGGAGCTGTACCAAGAGAGTGTGACCATAACCGGCATCT  
 GCATCGCCCTCCTTGTGGTGGCATCATGTGTGTGGTGGCCTACTGCAAAACCAAGAAACAGCGGAAAA  
 GCTGCATGACCGTCTTCGGCAGAGCCTTCGGTCTGAACGAAACAATATGATGAACATTGCCAATGGGCCT  
 CACCATCTAACCCACCCCGAGAATGTCCAGCTGGTGAATCAATACGTATCTAAAAACGTATCTCCA  
 GTGAGCATATTGTTGAGAGAGAAGCAGAGACATCCTTTCCACCAGTCACTATACTTCCACAGCCCATCA  
 CTCCACTACTGTACCCAGACTCCTAGCCACAGCTGGAGCAACGGACACACTGAAAGCATCCTTTCCGAA  
 AGCCACTCTGTAATCGTGATGTCATCCGTAGAAAAACAGTAGGCACAGCAGCCAACTGGGGGCCAAGAG  
 GACGCTTAATGGCACAGGAGGCCCTCGTGAATGTAACAGCTTCTCAGGCATGCCAGAGAAACCCCTGA  
 TTCTACCGAGACTCTCCTCATAGTAAAAGGTATGTGTACGCCATGACCACCCCGGCTCGTATGTACCT  
 GTAGATTTCCACACGCCAAGCTCCCCAAATCGCCCCCTTCGAAATGTCTCCACCCGTGTCCAGATGA  
 CGGTGTCCATGCCTTCCATGGCGGTGAGCCCTTCATGGAAGAAGAGAGACCTCTACTTCTCGTGACACC  
 ACCAAGGCTGCGGGAGAAGAAGTTTGACCATCACCCCTCAGCAGTTCAGCTCCTTCCACCACAACCCCGCG  
 CATGACAGTAACAGCCTCCCTGTAGCCCTTGAGGATAGTGGAGGATGAGGAGTATGAAACGACCCAAG  
 AGTACGAGCCAGCCAAGAGCCTGTTAAGAAACTCGCCAATAGCCGGCGGGCCAAAAGAACCAAGCCCAA  
 TGGCCACATTGCTAACAGATTGGAAGTGGACAGCAACACAAGCTCCAGAGCAGTAACTCAGAGAGTGAA  
 ACAGAAGATGAAAGAGTAGGTGAAGATACGCCCTTCTCGGCATACAGAACCCCTGGCAGCCAGTCTTG  
 AGGCAACACCTGCCTTCCGCTGGCTGACAGCAGGACTAACCCAGCAGGCGCTTCTCGACACAGGAAGA  
 AATCCAGGCCAGGCTGTCTAGTGAATTGCTAACCAAGACCCATTGCTGTA

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>RG228508 representing NM\_001159999  
 Red=Cloning site Green=Tags(s)

MGKGRAGRVGTTALPPRLKEMKSQESAAGSKLVLRCESSSEYSSLRFKWFKNGNELNRKNKPQNIKIQKK  
 PGKSELRINKASLADSGEYMCKVISKLGNDASANITIVESNEIITGMPASTEGAYVSSSPIRISVSTE  
 GANTSSSTSTSTGTSHLVKAEKEKTFVNGGECFMVKDLSNPSRYLCKPNEFTGDRQNYVMASFYK  
 HLGIEFMEAEELYQKRVLTITGICIALLVGIMCVVAYCKTKKQRKLDRLRQSLRSENNMMNIANGP  
 HHPNPPPEENVQLVNQYVSKNVISSHEHIVEREAETSFSTSHYTSTAHHSTVTQTPSHSWSNGHTESILSE  
 SHSVIVMSSVENSRRHSSPTGGPRGLNGTGGPRECNSFLRHARETPDSYRDSPHSERYVSAMTTPARMSP  
 VDFHTPSSPKSPPSEMSPPVSSMTVSMPSMAVSPFMEERPLLLVTPPRLREKFDHHPQQFSSFHHPA  
 HDSNSLPASPLRIVEDEEYETTQEYEPQEPVKKLANSRRAKRTKPNGHIANRLEVDSNTSSQSSNSESE  
 TEDERVGEDTPFLGIQNLAAASLEATPAFRLADSRNPAGRFSTQEEIQARLSSVIANQDPIAV

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_001159999

**ORF Size:** 1872 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\\_001159999.3](#)

**RefSeq Size:** 2604 bp

**RefSeq ORF:** 1875 bp

**Locus ID:** 3084

**UniProt ID:** [Q02297](#)

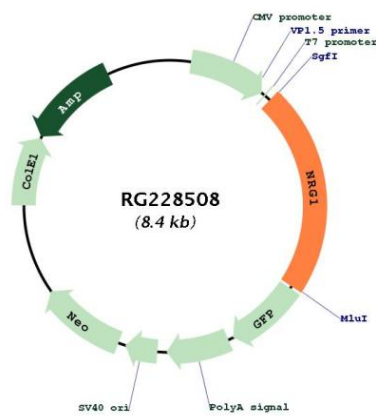
**Cytogenetics:** 8p12

**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 RG228508