

## Product datasheet for **RG228126**

### NRG1 (NM\_001160002) Human Tagged ORF Clone

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids  |
| Product Name:             | NRG1 (NM_001160002) 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)   |
| ORF Nucleotide Sequence:  | >RG228126 representing NM_001160002<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCGAGCGCAAAGAAGGCAGAGGCAAAGGGAAGGCAAGAAGAAGGAGCGAGGCTCCGGCAAGAAGC  
CGGAGTCCGCGCGGGCAGCCAGAGCCCAGCCTTGCTCCCGATTGAAAGAGATGAAAAGCCAGGAATC  
GGCTGCAGGTTCCAACTAGTCCTTCGGTGTGAAACCAGTTCTGAATACTCCTCTCAGATTCAAGTGG  
TTCAGAAATGGGAATGAATTGAATCGAAAAACAACCACAAAATATCAAGATACAAAAAAGCCAGGGA  
AGTCAGAACTTCGCATTACAAAGCATCACTGGCTGATTCTGGAGAGTATATGTGCAAAGTGATCAGCAA  
ATTAGGAAATGACAGTGCCTCTGCAATATCACCATCGTGAATCAAACGAGATCATCACTGGTATGCCA  
GCCTCAACTGAAGGAGCATATGTGTCTTCACTACATCTACATCCACCACTGGGACAAGCCATCTTGTA  
AATGTGCGGAGAAGGAGAAAACCTTCTGTGTGAATGGAGGGGAGTGCTTCATGGTAAAAGACCTTTCAAA  
CCCCTCGAGATACTTGTGCAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

|                   |   |
|-------------------|---|
| Protein Sequence: | >RG228126 representing NM_001160002<br>Red=Cloning site Green=Tags(s) |
|-------------------|---|

MSERKEGRGKGKGGKKKERSGSKKPESAAGSQSPALPPRLKEMKSQESAAGSKLVLRCESSSEYSSLRFKW  
FKNGNELNRKNKPQNIKIQQKPGKSELRINKASLADSGEYMCKVISKLGNDASANITIVESNEIITGMP  
ASTEGAYVSSATSTTTGTSHLVKCAEKEKTFVNGGECFMVKDLSNPSRYLCK

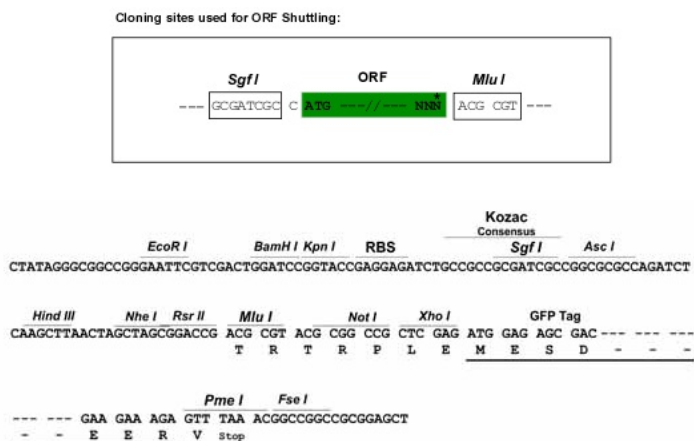
TRTRPLE - GFP Tag - V

|                    |           |
|--------------------|-----------|
| Restriction Sites: | Sgfl-MluI |
|--------------------|-----------|

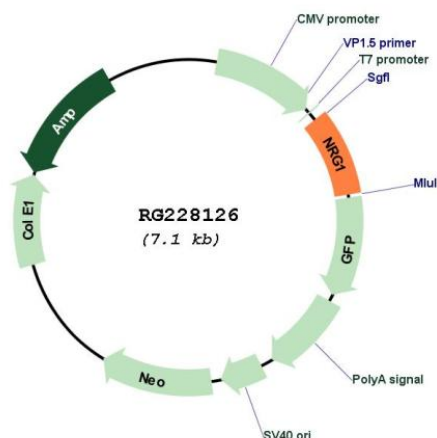


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Cloning Scheme:



Plasmid Map:



ACCN: NM\_001160002

ORF Size: 582 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\\_001160002.2](#)

**RefSeq Size:** 1643 bp

**RefSeq ORF:** 585 bp

**Locus ID:** 3084

**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]