

## Product datasheet for **SC124811**

### **NRG1 (NM\_013964) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	NRG1 (NM_013964) Human Untagged Clone
Tag:	Tag Free
Symbol:	NRG1
Synonyms:	ARIA; GGF; GGF2; HGL; HRG; HRG1; HRGA; MST131; MSTP131; NDF; NRG1-IT2; SMDF
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_013964, the custom clone sequence may differ by one or more nucleotides

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ATGTCCGAGCGCAAAGAAGGCAGAGGCCAAAGGGAAGGGCAAGAAGAAGGAGCGAGGCTCCGGCAAGAAGC
CGGAGTCCGCGGGCAGCCAGAGCCAGCCTTGCCCTCCCGATTGAAAGAGATGAAAAGCCAGGAATC
GGCTGCAGGTTCCAAACTAGTCCTTCGGTGTGAAACCAGTTCTGAATACTCCTCTCAGATTCAAGTGG
TTCAAGAATGGGAATGAATTGAATCGAAAAACAACCACAAAATATCAAGATACAAAAAAGCCAGGGA
AGTCAGAACTTCGCATTAACAAAGCATCACTGGCTGATTCTGGAGAGTATATGTGCAAAGTGATCAGCAA
ATTAGGAAATGACAGTGCCTCTGCCAATATCACCATCGTGAATCAAACGAGATCATCACTGGTATGCCA
GCCTCACTGAAGGAGCATATGTGTCTTCAGAGTCTCCATTAGAATATCAGTATCCACAGAAGGAGCAA
ATACTTCTTCATCTACATCTACATCCACCCTGGGACAAGCCATCTTGAAAATGTGCGGAGAAGGAGAA
AACTTTCTGTGTGAATGGAGGGGAGTGTTCATGGTGAAGACCTTTCAAACCCCTCGAGATACTTGTGC
AAGTGCCAACCTGGATTCACTGGAGCAAGATGTACTGAGAATGTGCCCATGAAAGTCCAAAACCAAGAAA
AGGCGGAGGAGCTGTACCAGAAGAGAGTGTGACCATAACCGGCATCTGCATCGCCCTCCTTGTGGTCCG
CATCATGTGTGTGGTGGCTACTGCAAAACCAAGAAACAGCGGAAAAAGCTGCATGACCGCTTCCGGCAG
AGCCTTCGGTCTGAACGAAACAATATGATGAACATTGCCAATGGGCCCTCACCATCTAACCCACCCCGG
AGAATGTCCAGCTGGTGAATCAATACGTATCTAAAAACGTATCTCCAGTGAGCATATTGTTGAGAGAGA
AGCAGAGACATCCTTTCCACCAGTCACTATACTTCCACAGCCCATCACTCCACTACTGTACCCAGACT
CCTAGCCACAGCTGGAGCAACGGACACACTGAAAGCATCCTTTCCGAAAGCCACTCTGTAATCGTGATGT
CATCCGTAGAAAAACAGTAGGCACAGCAGCCCAACTGGGGGCCAAGAGGACGTCTAATGGCACAGGAGG
CCCTCGTGAATGTAACAGCTTCCTCAGGCATGCCAGAGAAAACCCCTGATTCTACCGAGACTCTCCTCAT
AGTGAAAAGGTATGTGTCAGCCATGACCACCCCGCTCGTATGTCACCTGTAGATTTCCACACGCCAAGCT
CCCCAAAATCGCCCCCTTCGGAATGTCTCCACCCGTGTCCAGCATGACGGTGTCCATGCCTTCCATGGC
GGTCAGCCCTTCATGGAAGAAGAGAGACCTCTACTTCTCGTGACACCACCAAGGCTGCGGGAAGAAG
TTTGACCATCACCTCAGCAGTTCAGCTCCTTCCACCACAACCCCGCATGACAGTAACAGCCTCCCTG
CTAGCCCTTGAGGATAGTGGAGGATGAGGAGTATGAAACGACCCAAGAGTACGAGCCAGCCCAAGAGCC
TGTTAAGAAACTCGCAAATAGCCGGCGGGCCAAAAGAACCAAGCCCAATGGCCACATTGCTAACAGATTG
GAAGTGGACAGCAACACAAGCTCCAGAGCAGTAACTCAGAGAGTGAACAGAAGATGAAAGAGTAGGTG
AAGATACGCCTTTCCTGGGCATACAGAACCCCTGGCAGCCAGTCTTGAGGCAACACCTGCCTTCCGCCT
GGCTGACAGCAGGACTAACCCAGCAGGCCGCTTCTCGACACAGGAAGAAATCCAGGCCAGGCTGTCTAGT
GTAATTGCTAACCAAGACCTATTGCTGTATAA
    
```

**Restriction Sites:** Please inquire  
**ACCN:** NM\_013964  
**Insert Size:** 5700 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](mailto: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](#)

**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\\_013964.1](#), [NP\\_039258.1](#)

**RefSeq Size:** 2224 bp

**RefSeq ORF:** 1923 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]

Transcript Variant: This variant (HRG-alpha), which uses the type I promoter, lacks two in-frame exons but contains a different in-frame exon in the central coding region, compared to variant HRG-beta1. The resulting isoform (HRG-alpha, also known as erbB2 or gp30/alpha 1) contains an alternate internal segment and is shorter than isoform HRG-beta1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.