

## Product datasheet for **SC327133**

### **NRG1 (NM\_001159995) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	NRG1 (NM_001159995) 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:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_001159995 edited  
 ATGGGGAAAGGACGCGCGGGCCGAGTTGGCACCACAGCCTTGCCCTCCCGATTGAAAGAG  
 ATGAAAAGCCAGGAATCGGCTGCAGGTTCCAACTAGTCCTTCGGTGTGAAACCAGTTCT  
 GAATACTCCTCTCAGATTCAAGTGGTCAAGAATGGGAATGAATTGAATCGAAAAAC  
 AAACCACAAAATCAAGATACAAAAAGCCAGGGAAGTCAGAACTTCGCATTAACAAA  
 GCATCACTGGCTGATTCTGGAGAGTATATGTGCAAAGTGATCAGCAAATTAGGAAATGAC  
 AGTGCCTGCCAAATATCACCATCGTGGAAATCAAACGAGATCATCACTGGTATGCCAGCC  
 TCAACTGAAGGAGCATATGTGTCTTCAGCTACATCTACATCCACCCTGGGACAAGCCAT  
 CTTGTAATAATGTGCGGAGAAGGAGAAAACTTTCTGTGTGAATGGAGGGGAGTGCTTCATG  
 GTGAAAGACCTTTCAAACCCCTCGAGATACTTGTGCAAGTGCCCAATGAGTTTACTGGT  
 GATCGCTGCCAAAACACTACGTAATGGCCAGCTTCTACAAGCATCTTGGGATTGAATTTATG  
 GAGGCGGAGGAGCTGTACCAGAAGAGAGTGCTGACCATAACCGGCATCTGCATCGCCCTC  
 CTTGTGGTCGGCATCATGTGTGGTGGCTACTGCAAAACCAAGAAACAGCGGAAAAAG  
 CTGCATGACCGTCTTCGGCAGAGCCTTCGGTCTGAACGAAACAATATGATGAACATTGCC  
 AATGGGCCTCACCATCCTAACCCACCCCGGAGAATGTCCAGCTGGTGAATCAATACGTA  
 TCTAAAAACGTATCTCCAGTGAGCATATTGTTGAGAGAGAAGCAGAGACATCCTTTTCC  
 ACCAGTCACTATACTTCCACAGCCCATCACTCCACTACTGTACCCAGACTCCTAGCCAC  
 AGCTGGAGCAACGGACACACTGAAAGCATCCTTTCCGAAAGCCACTCTGTAATCGTGATG  
 TCATCCGTAGAAAACAGTAGGCACAGCAGCCAACTGGGGGCCCAAGAGGACGTCTTAAT  
 GGCACAGGAGGCCCTCGTGAATGTAACAGCTTCTCAGGCATGCCAGAGAAACCCCTGAT  
 TCCTACCGAGACTCTCCTCATAGTGAAGGTATGTGTGAGCCATGACCACCCCGGCTCGT  
 ATGTCACCTGTAGATTTCCACACGCCAAGCTCCCCAAATCGCCCCCTTCGGAATGTCT  
 CCACCCGTGCCAGCATGACGGTGTCCATGCCTTCCATGGCGGTGAGCCCTTCATGGAA  
 GAAGAGAGACCTCTACTTCTCGTGACACCACCAAGGCTGCGGGAGAAGAAGTTTGACCAT  
 CACCCTCAGCAGTTCAGCTCCTTCCACCACAACCCCGCGCATGACAGTAACAGCCTCCCT  
 GCTAGCCCTTGAGGATAGTGGAGGATGAGGAGTATGAAACGACCCAAGAGTACGAGCCA  
 GCCCAAGAGCCTGTTAAGAACTCGCCAATAGCCGGCGGGCCAAAAGAACCAAGCCCAAT  
 GGCCACATTGCTAACAGATTGGAAGTGGACAGCAACACAAGCTCCAGAGCAGTAACTCA  
 GAGAGTAAACAGAAGATGAAAGAGTAGGTGAAGATACGCCTTCTGGGCATACAGAAC  
 CCCCTGGCAGCCAGTCTTGAGGCAACACCTGCCTTCCGCCTGGCTGACAGCAGGACTAAC  
 CCAGCAGGCCGCTTCTCGACACAGGAAGAAATCCAGGCCAGGCTGTCTAGTGAATTGCT  
 AACCAAGACCCTATTGCTGTATAA

- Restriction Sites:** Please inquire
- ACCN:** NM\_001159995
- Insert Size:** 1800 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
- 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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001159995.1</a> , <a href="#">NP_001153467.1</a>
<b>RefSeq Size:</b>	2553 bp
<b>RefSeq ORF:</b>	1824 bp
<b>Locus ID:</b>	3084
<b>UniProt ID:</b>	<a href="#">Q02297</a>
<b>Cytogenetics:</b>	8p12
<b>Protein Families:</b>	Druggable Genome, Secreted Protein, Transcription Factors, Transmembrane
<b>Protein Pathways:</b>	ErbB signaling pathway
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (HRG-beta1c), which uses the type IV promoter, contains an alternate 5' terminal exon and thus differs in the 5' UTR and 5' coding region, and it also lacks an in-frame exon in the central coding region, compared to variant HRG-beta1. The resulting isoform (HRG-beta1c, also known as type IV fetal C beta 1a or fetal b IV-beta 1a) has a distinct N-terminus, lacks an 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.</p>