

## Product datasheet for **RG224945**

### **NRG1 (NM\_013958) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	NRG1 (NM_013958) 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:	>RG224945 representing NM_013958 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCCGAGCGCAAAGAAGGCAGAGGCAAAGGGAAGGGCAAGAAGAAGGAGCGAGGCTCCGGCAAGAAGC  
CGGAGTCCGCGGGCGGCAGCCAGAGCCCAGCCTTGCTCCCAATTGAAAGAGATGAAAAGCCAGGAATC  
GGCTGCAGGTTCCAACTAGTCCTTCGGTGTGAAACCAGTTCTGAATACTCCTCTCTCAGATTCAAGTGG  
TTCAAGAATGGGAATGAATTGAATCGAAAAACAACCACAAAATATCAAGATACAAAAAAGCCAGGGA  
AGTCAGAACTTCGCATTAACAAAGCATCACTGGCTGATTCTGGAGAGTATATGTGCAAAGTGATCAGCAA  
ATTAGGAAATGACAGTGCCTCTGCAATATCACCATCGTGAATCAAACGAGATCATCACTGGTATGCCA  
GCCTCAACTGAAGGAGCATATGTGTCTTCAGAGTCTCCATTAGAATATCAGTATCCACAGAAGGAGCAA  
ATACTTCTTACATCTACATCTACATCCACCACTGGGACAAGCCATCTTGTAATGTGCGGAGAAGGAGAA  
AACTTTCTGTGTGAATGGAGGGGAGTGCTTCATGGTGAAGACCTTTCAAACCCCTCGAGATACTTGTGC  
AAGTGCCCAAATGAGTTTACTGGTGATCGCTGCCAAAACACGTAATGGCCAGCTTCTACAGTACGTCCA  
CTCCCTTCTGTCTCTGCCTGAA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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<b>OTI Disclaimer:</b>	<p>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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
<b>Components:</b>	<p>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).</p>
<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>	<p><a href="#">NM_013958.1</a>, <a href="#">NP_039252.1</a></p>
<b>RefSeq Size:</b>	<p>1715 bp</p>
<b>RefSeq ORF:</b>	<p>726 bp</p>
<b>Locus ID:</b>	<p>3084</p>
<b>UniProt ID:</b>	<p><a href="#">Q02297</a></p>
<b>Cytogenetics:</b>	<p>8p12</p>
<b>Protein Families:</b>	<p>Druggable Genome, Secreted Protein, Transcription Factors, Transmembrane</p>
<b>Protein Pathways:</b>	<p>ErbB signaling pathway</p>
<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>