

## Product datasheet for SC315410

### NRG1 (NM\_013961) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	NRG1 (NM_013961) Human Untagged Clone
Tag:	Tag Free
Symbol:	NRG1
Synonyms:	ARIA; GGF; GGF2; HGL; HRG; HRG1; HRGA; NDF; SMDF
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_013961 edited  
GGGCTCGCGCGGAGGCCAGGAGCTGAGCGGCGGGCGGCTGCCGGACGATGGGAGCGTGAGC  
AGGACGGTGATAACCTCTCCCCGATCGGGTTGCGAGGGCGCCGGGAGGAGCCAGGACGC  
GAGCCCGCAGCGCGGGACCCATCGACGACTTCCCGGGCGACAGGAGCAGCCCCGAGAG  
CCAGGGCGAGCGCCCGTTCCAGGTGGCCGACCGCCCGCCGCGTCCGCGCCGCGCTCCCT  
GCAGGCAACGGGAGACGCCCCGCGCAGCGCGAGCGCCTCAGCGCGGCCGCTCGCTCTCC  
CCATCGAGGGACAACTTTTCCAAACCCGATCCGAGCCCTTGGACAAACTCGCCTGCG  
CCGAGAGCCGTCCGCGTAGAGCGCTCCGTCTCCGGCGAGATGTCCGAGCGCAAAGAAGGC  
AGAGGCAAAGGAAGGGCAAGAAGAAGGAGCGAGGCTCCGGCAAGAAGCCGGAGTCCGCG  
GCGGGCAGCCAGAGCCCAGCCTTGCTCCCAATTGAAAGAGATGAAAAGCCAGGAATCG  
GCTGCAGGTTCCAACTAGTCCTTCGGTGTGAAACCAGTTCTGAATACTCCTCTCTCAGA  
TTCAAGTGGTTCAAGAATGGGAATGAATTGAATCGAAAAACAAACCACAAAATATCAAG  
ATACAAAAAAGCCAGGGAAGTCAGAACTTCGATTAACAAAGCATCACTGGCTGATTCT  
GGAGAGTATATGTGCAAAGTGATCAGCAAATTAGGAAATGACAGTGCCTCTGCCAATATC  
ACCATCGTGGAATCAAACGAGATCATCACTGGTATGCCAGCCTCACTGAAGGAGCATAT  
GTGTCTTCAGAGTCTCCATTAGAATATCAGTATCCACAGAAGGAGCAAATACTTCTTCA  
TCTACATCTACATCCACCACTGGGACAAGCCATCTTGTAAAATGTGCGGAGAAGGAGAAA  
ACTTTCTGTGTGAATGGAGGGGAGTGCTTCATGGTGAAAGACCTTTCAAACCCCTCGAGA  
TACTTGTGCAAGTGCCCAAATGAGTTTACTGGTGATCGCTGCCAAAACACGTAATGGCC  
AGCTTCTACAGTACGTCCACTCCCTTTCTGTCTCTGCCTGAATAG



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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_013961 unedited</p> <pre>CCGCCCCGTCGCGCAACGGGCGGTGGCGCGTACGGCGGGAGGCACATAGCAGAGCCCGCCT GCGAACGTGAGAACCCCGTATACGACCCACCACAGGGCGGCCGCGAACCCGGCAGAGGG GCCCGCGCGGAGGCCAGGAGCCGAGCGCGGCCGGCCCGCGGACGATGGGAGCGCGAGCAG GACGGTGACAACCCCCCGACCGGGCCGCGAGGGCGCCGGGCAGAGGCCAGGACGCGA GCCGCCAGCGGGGACCCATCGACGACTTTCCGGGGCGACAGGAGCAGCCCGAGAC CAGGGCAGCGCCCGTTTCCAGGTGGCCGGACCCCGCCCGCTCCGCGCCGCGCCCT GCAGGCAACGGGAGACGCCCGCGCAGCGCAGCGCCTCAGCGCGGCCGCTCGCTCTCC CCATCGAGGGACAACTTTTCCAAACCGATCCGAGCCCTTGGACCAAACCTCGCTGCG CCGAGAGCCGTCCGCGTAGAGCGCTCCGTCTCCGGCGAGATGTCCGAGCGCAAAGAAGGC AGAGGCAAAGGGAAGGGCAAGAAGAAGGAGCGAGGCTCCGGCAAGAAGCCGGAGTCCGCG GCGGGCAGCCAGAGCCAGCCTTGCTCCCAATTGAAAGAGATGAAAAGCCAGGAATCG GCTGCAGGTTCCAACTAGTCTTCGGTGTAAACAGTTCTGAATACTCTCTCTCAGA TTCAAGTGGTTCAAGAATGGGAATGAATTGAATCGAAAAACAACCACAAATATCAAGATA CAAAAAAGCCAGGGAAGTCAGACTTCGCATTAACAAAGCATCACTGGCTGATTCTGGAGA GTATATGTGCAAAGGTGATCAGCAATTAGGAAATGACAGTGCCTCTGCCCA</pre>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_013961 unedited</p> <pre>TGGTGCTGCACCTCAGGGCCGAGAGGCACCTGGGGAGGGGTACAGGGATGCCACCCGG GATCTGTTAGAAACAGCTATGACCGCGCCGCAATCTAGACTATTCAGGCAGAGACAG AAAGGGAGTGGACGTACTGTAGAAGCTGGCCATTACGTAGTTTTGGCAGCGATCACCAGT AAACTCATTTGGCACTTGCACAAGTATCTCGAGGGGTTTAAAGGTCTTTCACCATGAA GCACTCCCTCCATTACACAGAAAGTTTTCTCCTTCTCCGCACATTTTACAAGATGGCT TGTCACAGTGGTGGATGTAGATGTAGATGAAGAAGTATTTGCTCCTTCTGTGGATACTGA TATTCTAATGGGAGACTCTGAAGACACATATGCTCCTTCAGTTGAGGCTGGCATACCACT GATGATCTCGTTTGATCCACGATGGTGTATTGGCAGAGGCACTGTCATTTCTAATTT GCTGATCACTTTGCACATATACTCTCCAGAATCAGCCAGTGTGCTTTGTTAATGCGAAG TTCTGACTTCCCTGGCTTTTTTTGTATCTTGATATTTGTGGTTGTTTTTTCGATTCAA TTCATTTCCATTCTTGAACCACTTGAATCTGAGAGAGGAGTATTCAGAACTGGTTTCA CCGAAGGACTAGTTTGAACCTGCAGCCGATTCTGGCTTTTCATCTCTTTCAATTGGGG AGGCAAGGCTGGGCTCTGGCTGCCCGCCGCGGACTCCGGCTTCTTGCCGGAGCCTCGCT CTTCTTCTTGCCCTTCCCTTTGCCTCTGCCTTCTTTGCGCTCGGACATCTCGCCGAGAC GGAGCGCTCTACGCGGACGCTCTCGGCGCAGCGAGTTTGGTCCAAGGGCTCGGATCGGGT TTGGGAAAGTTTGCCTCGATGGGAGAGCGAGCGCCGCGCTGAGCGCTCGCGCTGCGCG GGGGCGTCTCCGTTGCCTGCAGGAGCGCCGCCGGAAGCG</pre>
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_013961
<b>Insert Size:</b>	1100 bp
<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
<b>Components:</b>	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>	<u><a href="#">NM_013961.2</a></u> , <u><a href="#">NP_039255.1</a></u>
<b>RefSeq Size:</b>	1703 bp
<b>RefSeq ORF:</b>	726 bp
<b>Locus ID:</b>	3084
<b>Cytogenetics:</b>	8p12
<b>Domains:</b>	ig, IGc2, IG, EGF, EGF
<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: The GGF (also called GGFHFB1) variant is identical to HRG-beta3 variant, except for its shorter 5' and 3' UTRs. The GGF and GGF2 variants are expressed in the nervous system and function as a neuronal signal that promotes the proliferation and survival of the oligodendrocyte and the myelinating cells.</p>