

## Product datasheet for **RN217047**

### **Nrg1 (NM\_001271130) Rat Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Nrg1 (NM_001271130) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Nrg1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >RN217047 representing NM\_001271130  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGAGCCGGATGCCAACAGCAGCGGCCGCGCCGCCCGCCCTCCGAGCCTCGTTTCCCCACTGGAGA  
 CTGGCCGCAACCTCAAGAAGGAGGTGAGCCGGGTGTTGTGCAAGCGGTGCGCACTGCCTCCAGATTGAA  
 AGAAATGAAGAGCCAGGAGTCACTGCAGGCTCCAAGCTAGTGCTCCGGTGCAGAACAGCTCCGAGTAC  
 TCCTCACTCAGATTCAAATGTTCAAGAATGGGAACGAGCTGAACCGAAAAATAAACAGAAAACATCA  
 AGATACAGAAGAAGCCAGGGAAGTCAAGCTTCAAGTAAACAAGCATCCCTGGCTGACTCTGGAGAGTA  
 TATGTGCAAAAGTGATCAGCAAGTTAGGAAATGACAGTGCCTTGCCAACATCACCATTGTTGAGTCAAAC  
 GAGTTCATCACTGGCATGCCAGCCTCGACTGAGACAGCCTATGTGTCCTCAGAGTCTCCATTAGAATCT  
 CAGTTTCAACAGAAGGCGCAAACTTCTTCATCCACATCGACATCCACGACTGGGACCAGCCATCTCAT  
 AAAGTGCAGGAGAAGGAGAAAACCTTTCTGTGTGAATGGGGGCGAGTGCTTCACGGTGAAGGACCTGTCA  
 AACCCGTCAGATACTTGTGCAAGTGCCAAATGAGTTTACTGGTGATCGTTGCCAAAACACTGTAATGG  
 CCAGCTTCTACAAGCATCTTGGGATTGAATTTATGGAAGCGGAGGAACTCTACCAGAAGAGGGTGCTGAC  
 AATTACTGGCATCTGTATCGCCCTGCTGGTGGTGGCATCATGTGTGTGGTGGCCTACTGCAAAACCAAG  
 AAGCAGCGGCAGAAGCTTCATGATCGGCTTCGGCAGAGTCTTCGGTCAGAACGGAGCAACCTGGTGAACA  
 TAGCGAATGGGCTCACCAACCAACCCACCGCCAGAGAACGTGCAGCTGGTGAATCAATACGTATCTAA  
 AAACGTCACTCCAGTGAGCATATTGTTGAGAGAGAAGTGGAGACTTCTTTTCCACCAGTCATTACACT  
 TCCACAGCCCATCACTCCAGACTGTCAACAGACTCCTAGTACAGCTGGAGTAATGGGCACACGGAGA  
 GCATCATTTAGAAAGCAACTCCGTAATCATGATGTCCTTCGGTAGAGAACAGCAGGCACAGCAGTCCCGC  
 CGGGGGCCACAGGACGTCTTCATGGCTGGGAGGCCCTCGTGATAACAGCTTCTCAGGCATGCCAGA  
 GAAACCCCTGACTCCTACAGAGACTCTCCTCATAGCGAAAGGTATGTATCAGCCATGACCACCCCGGCTC  
 GTATGTCACTGTAGATTTCCACACGCCAAGCTCCCTAAATCGCCCCCTTCGAAATGTCTCCACCCGT  
 GTCCAGCATGACGGTGTCAATGCCCTCTGTGGCAGTCAAGCCCTTTGTGGAAGAAGAGAGCCCTCTGCTG  
 CTTGTGACGCCACCAAGGCTACGGGAGAAGAAATATGATCATCAACCCAGCAACTCACTCCTTTCATC  
 ACAACCCCTGCACATCAGAGTACCAGCCTCCCCCTAGCCACTGAGGATAGTGGAGGATGAGGAGTACGA  
 GACGACCCAGGAGTATGAGTCAAGTCAAGAGCCCGTTAAGAAAGTACCAATAGCCGGCGGGCCAAAAGA  
 ACCAAGCCCAATGGCCACATTGCCAATAGGTTGGAAATGGACAGCAACACAAGTTCTGTGAGCAGTAACT  
 CAGAAAGTGAGACAGAAGACGAAAGAGTAGGTGAAGACACACCATTCCTGGGCATACAGAACCCCTGGC  
 AGCCAGCCTTGAGGTGGCCCTGCCTTCCGCTGGCTGAGAGCAGGACTAACCCAGCAGGCCGCTTCTCC  
 ACACAGGAGGAATTACAGGCCAGGCTGTCTAGTGAATCGCTAACCAAGACCCTATTGCTGTAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001271130

**Insert Size:** 1956 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:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.

<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>NM_001271130.1, NP_001258059.1</u>
<b>RefSeq Size:</b>	3340 bp
<b>RefSeq ORF:</b>	1956 bp
<b>Locus ID:</b>	112400
<b>Cytogenetics:</b>	16q12.3
<b>Gene Summary:</b>	<p>ligand for Erbb3 and Erbb4 receptors; gene produces many different alternative splicing isoforms; involved in neural and organ development [RGD, Feb 2006]</p> <p>Transcript Variant: This variant (14) differs in the 5' UTR and coding sequence compared to variant 1. The resulting isoform (14) has a shorter and distinct N-terminus compared to isoform 1. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.</p>