

## Product datasheet for **RN217114**

### **Nrg1 (NM\_001271119) Rat Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Nrg1 (NM_001271119) 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:** >RN217114 representing NM\_001271119  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGAGATTTATTCCCCAGACATGTCTGAGGTAGCTGGCGGGAGGTCCTCCAGCCCTCCACTCAGCTGA  
 GTGCAGCCCATCTCTTGTATGGCTTCCGGCAGCGGAGGAACATATACCAGACACCCACACAGAAGATGA  
 GAGAAGCCCTGGACTCCTGGGCCTGGCGGTGCCCTGTGTGTGCCTGGAAGCTGAGCGCTGAGAGGG  
 TGTCTCAACTCCGAGAAGATCTGCATTGTTCCATTCTGGCTTGCCTAGTCAGCCTCTGCCTCTGCATTG  
 CTGGCCTGAAGTGGGATTTGTGGACAAGATATTTGAATACGACTCTCTACCCACCTTGACCCTGGGGG  
 GTTAGGCCAGGACCCTGTGATTTCTCTGGATCCAAGTCTGCCCCAGCCATTTTGGTATCATCTGAGGCA  
 TACACTTACCTGTCTAAGGCTCAGTCTGAAGCTGGGGCTCATGTTACAGTACAAGGTGACCATGCTG  
 CTGTGGCCTCTGAACCTCAGCAGTACCGACCCGGAAGAACCCTGTCTGCTTTTCTCCCTTTCACTC  
 TACTGCACCGCCCTTCCCTTCTCCAGCTCGGACCCTGAGGTGAGAACACCCAAGTCAGGAACTCAGCCA  
 CAAACAACAGAACTAACTGCAAAGTCTCTAAACTTTCCACATCGACATCCAGGACTGGGACCAGCC  
 ATCTCATAAAGTGCAGGAGAAGGAGAAAACCTTCTGTGTGAATGGGGGGAGTGCTTCCAGGTGAAGGA  
 CCTGTCAAACCCGTCAAGATACTTGTGCAAGTGCCAACCTGGATTCACTGGAGCAAGATGTACTGAGAAT  
 GTACCCATGAAAGTCAAACCAAGAAAAGCGGAGGAACTCTACCAGAAGAGGGTGTGACAATTACTG  
 GCATCTGTATCGCCCTGTGGTGGTCCGCAGATCATGTGTGTGGTGGCCTACTGCAAACCAAGAAGCAGCG  
 GCAGAAGCTTTCATGATCGGCTTCGGCAGAGTCTTCGGTCAAGACGAGCAACCTGGTGAACATAGCGAAT  
 GGGCCTCACACCAACCCACCGCCAGAGAACGTGCAGCTGGTGAATCAATACGTATCTAAAAACGTCA  
 TCTCCAGTGAGCATATTGTTGAGAGAGAAGTGGAGACTTCCTTTTCCACCAGTCATTACACTTCCACAGC  
 CCATCACTCCACGACTGTCACCCAGACTCCTAGTCACAGCTGGAGTAATGGGCACACGGAGAGCATCATT  
 TCAGAAAGCAACTCCGTAATCATGATGTCTTCGGTAGAGAACAGCAGGCACAGCAGTCCCAGCGGGGCC  
 CACGAGGACGTCTTCATGGCCTGGGAGGCCCTCGTGATAACAGCTTCTCAGGCATGCCAGAGAAAACCC  
 TGACTCTACAGAGACTCTCCTCATAGCGAAAAGGTATGTATCAGCCATGACCACCCCGGCTCGTATGTCA  
 CCTGTAGATTTCCACACGCCAAGCTCCCTAAATCGCCCCCTTCGAAATGTCTCCACCCGTGTCCAGCA  
 TGACGGTGTCAATGCCCTCTGTGGCAGTCAGCCCTTTGTGGAAGAAGAGAGGCCCTCTGTGCTTGTGAC  
 GCCACCAAGGCTACGGGAGAAGAAATATGATCATACCCCCAGCAACTCAACTCCTTTCATCACAACCT  
 GCACATCAGAGTACCAGCCTCCCCCTAGCCACTGAGGATAGTGAGGATGAGGAGTACGAGACGACCC  
 AGGAGTATGAGTCAGTTCAGAGCCGTTAAGAAAGTCACCAATAGCCGGCGGGCCAAAAGAACCAGCC  
 CAATGGCCACATTGCCAATAGGTTGAAATGGACAGCAACACAAGTTCTGTGAGCAGTAACTCAGAAAGT  
 GAGACAGAAGACGAAAGAGTAGGTGAAGACACACCATTCTGGGCATACAGAACCCCTGGCAGCCAGCC  
 TTGAGGTGGCCCTGCCTTCCGTCTGGCTGAGAGCAGGACTAACCAGCAGGCCGCTTCTCCACACAGGA  
 GGAATTACAGGCCAGGCTGTCTAGTGAATCGCTAACCAAGACCCTATTGCTGTAA**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001271119

**Insert Size:** 2088 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_001271119.1, NP_001258048.1</u>
<b>RefSeq Size:</b>	3700 bp
<b>RefSeq ORF:</b>	2088 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 (2) lacks two alternate coding exons and contains another alternate coding exon compared to variant 1. The resulting isoform (2) has the same N- and C-termini but is shorter compared to isoform 1, with the two isoforms containing an alternate internal segment. 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>