

## Product datasheet for **RN217029**

### **Nrg1 (NM\_001271129) Rat Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Nrg1 (NM_001271129) 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:** >RN217029 representing NM\_001271129  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTCAGAGCGCAAAGAAGGCAGAGGCAAGGGGAAGGCAAGAAGAAGGACCGGGGATCCCGCGGGAAGC  
 CCGGGCCCGCGAGGGCGACCCGAGCCAGCACTGCCTCCAGATTGAAAGAAATGAAGAGCCAGGAGTC  
 AGCTGCAGGCTCCAAGCTAGTGCTCCGGTGCGAAACCAGCTCCGAGTACTCCTCACTCAGATTCAAATGG  
 TTCAAGAATGGGAACGAGCTGAACCGAAAAATAAACAGAAAACATCAAGATACAGAAGAAGCCAGGGA  
 AGTCAGAGCTTGAATTAACAAAGCATCCCTGGCTGACTCTGGAGAGTATATGTGCAAAGTGATCAGCAA  
 GTTAGGAAATGACAGTGCCTCTGCCAACATCACCATTGTTGAGTCAAACGAGTTCATCACTGGCATGCCA  
 GCCTCGACTGAGACAGCCTATGTGTCCTCAGAGTCTCCATTAGAATCTCAGTTTCAACAGAAGGCGCAA  
 ACATTCTTCATCCACATCGACATCCACGACTGGGACCAGCCATCTCATAAAGTGCAGGAGAAGGAGAA  
 AACTTTCTGTGTGAATGGGGCGAGTGCTTCACGGTGAAGGACCTGTCAAACCCGTCAGATACTTGTGC  
 AAGTGCCAACTGGATCACTGGAGCAAGATGTACTGAGAATGTACCCATGAAAGTCCAAACCCAAGAAA  
 AAGCGGAGGAAGTCTACCAGAAGAGGGTGTGACAATTACTGGCATCTGTATCGCCCTGCTGGTGGTCCGG  
 CATCATGTGTGGTGGCTACTGCAAAACCAAGAAGCAGCGGCAGAAAGTTCATGATCGGCTTCGGCAG  
 AGTCTTCGGTCAGAACGGAGCAACCTGGTGAACATAGCGAATGGGCTCACCCACCAACCCACCGCCAG  
 AGAACGTGCAGCTGGTGAATCAATACGTATCTAAAAACGTATCTCCAGTGAGCATATTGTTGAGAGAGA  
 AGTGGAGACTTCCCTTTCCACAGTCATTACACTTCCACAGCCCATCACTCCACGACTGTACCCAGACT  
 CCTAGTCACAGCTGGAGTAATGGGCACACGGAGAGCATCATTTCCAGAAAGCAACTCCGTAATCATGATGT  
 CTTCCGGTAGAGAACAGCAGGCACAGCAGTCCCGCCGGGGCCACGAGGACGTCTTCATGGCTGGGAGG  
 CCCTCGTGATAACAGCTTCCCTCAGGCATGCCAGAGAAACCCCTGACTCCTACAGAGACTCTCCTCATAGC  
 GAAAGGTATGTATCAGCCATGACCACCCCGCTCGTATGTCACCTGTAGATTTCCACAGCCAAGTCCC  
 CTAATCGCCCCCTTCGGAAATGTCTCCACCCGTGTCAGCATGACGGTGTCAATGCCCTCTGTGGCAGT  
 CAGCCCCTTTGTGGAAGAAGAGAGGCTCTGCTGCTTGTGACGCCACCAAGGCTACGGGAGAAGAAATAT  
 GATCATACCCCCAGCAACTCAACTCCTTTTCATCACAACCCTGCACATCAGAGTACCAGCCTCCCCCTA  
 GCCCACTGAGGATAGTGGAGGATGAGGAGTACGAGACGCCAGGAGTATGAGTCAGTTCAGAGCCCGT  
 TAAGAAAGTACCAATAGCCGGCGGGCCAAAAGAACAAGCCCAATGGCCACATTGCCAATAGGTTGGAA  
 ATGGACAGCAACACAAGTTCTGTGAGCAGTAACAGAAAGTGAAGACAGAAGACGAAAGAGTAGGTAAG  
 ACACACATTCTGGGCATACAGAACCCCTGGCAGCCAGCCTTGAGGTGGCCCCCTGCCTTCCGTCTGGC  
 TGAGAGCAGGACTAACCCAGCAGCCGCTTCTCCACACAGGAGGAATTACAGGCCAGGCTGTCTAGTGTA  
 ATCGCTAACCAAGACCCTATTGCTGTA**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001271129

**Insert Size:** 1920 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_001271129.1</u> , <u>NP_001258058.1</u>
<b>RefSeq Size:</b>	3255 bp
<b>RefSeq ORF:</b>	1920 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 (12) differs in the 5' UTR and coding sequence and lacks an alternate in-frame exon compared to variant 1. The resulting isoform (12) has a shorter and distinct N-terminus and lacks an alternate internal segment 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>