

## Product datasheet for **RN215433**

### **Nrg1 (NM\_031588) Rat Untagged Clone**

#### **Product data:**

|                    |                                     |
|--------------------|-------------------------------------|
| Product Type:      | Expression Plasmids                 |
| Product Name:      | Nrg1 (NM_031588) 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:** >RN215433 representing NM\_031588  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTCTGAGCGCAAAGAAGGCAGAGGCAAGGGGAAGGCAAGAAGAAGGACCGGGGATCCCGCGGGAAGC  
 CCGGGCCCGAGGGCGACCCGAGCCAGCACTGCCTCCAGATTGAAAGAAATGAAGAGCCAGGAGTC  
 AGCTGCAGGCTCCAAGCTAGTGCTCCGGTGCGAAACCAGCTCCGAGTACTCCTCACTCAGATTCAAATGG  
 TTCAAGAATGGGAACGAGCTGAACCGAAAAATAAACAGAAAACATCAAGATACAGAAGAAGCCAGGGA  
 AGTCAGAGCTTGAATTAACAAAGCATCCCTGGCTGACTCTGGAGAGTATATGTGCAAAGTGATCAGCAA  
 GTTAGGAAATGACAGTGCCTCTGCCAACATCACCATTGTTGAGTCAAACGAGTTCATCACTGGCATGCCA  
 GCCTCGACTGAGACAGCCTATGTGCTCAGAGTCTCCATTAGAATCTCAGTTTCAACAGAAGGCGCAA  
 ACATTCTTCATCCACATCGACATCCACGACTGGGACCAGCCATCTCATAAAGTGCAGGAGAAAGGAGAA  
 AACTTTCTGTGTGAATGGGGCGAGTGCTTCACGGTGAAGGACCTGTCAAACCCGTAAGATACTTGTGC  
 AAGTGCCCAAATGAGTTTACTGGTGATCGTTGCCAAAACCTACGTAATGGCCAGCTTCTACAAAGCGGAGG  
 AACTCTACCAGAAGAGGGTGTGACAATTACTGGCATCTGTATCGCCCTGCTGGTGGTCCGCATCATGTG  
 TGTGGTGGCTACTGAAAACCAAGAAGCAGCGGCAGAAGCTTCATGATCGGCTTCGGCAGAGTCTTCGG  
 TCAGAACGGAGCAACCTGGTGAACATAGCGAATGGGCCTCACCACCCAAACCCACCGCCAGAGAAGTGC  
 AGCTGGTGAATCAATACGTATCTAAAAACGTCTCCTCAGTGAGCATATTGTTGAGAGAGAAGTGGAGAC  
 TTCTTTTCCACAGTCAATACACTTCCACAGCCCATCACTCCACGACTGTCACCCAGACTCCTAGTCAC  
 AGCTGGAGTAATGGGCACACGGAGAGCATATTCAGAAAAGCAACTCCGTAATCATGATGTCTTCGGTAG  
 AGAACAGCAGGCACAGCAGTCCCAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG  
 TAACAGCTTCTCAGGCATGCCAGAGAAAACCCCTGACTCCTACAGAGACTCTCCTCATAGCGAAAGGTAT  
 GTATCAGCCATGACCACCCGGCTCGTATGTACCTGTAGATTTCCACACGCCAAGCTCCCTAAATCGC  
 CCCCTTCGGAAATGTCTCACCCGTGTCCAGCATGACGGTGTCAATGCCCTCTGTGGCAGTCAGCCCTT  
 TGTGGAAGAAGAGAGGCCTCTGTGCTTGTGACGCCACCAAGGCTACGGGAGAAGAAATATGATCATCAC  
 CCCCAGCAACTCAACTCCTTTCATCACAACCCTGCACATCAGAGTACCAGCCTCCCCCTAGCCACTGA  
 GGATAGTGGAGGATGAGGAGTACGAGACGACCCAGGAGTATGAGTCAGTCAAGAGCCCGTTAAGAAAGT  
 CACCAATAGCCGGCGGGCCAAAAGAACCAAGCCCAATGGCCACATTGCCAATAGGTTGAAATGGACAGC  
 AACACAAGTTCTGTGAGCAGTAACCTCAGAAAGTGAGACAGAAGACGAAAGAGTAGGTGAAGACACCCAT  
 TCCTGGGCATACAGAACCCCTGGCAGCCAGCCTTGAGGTGGCCCTGCCTTCCGTCTGGCTGAGAGCAG  
 GACTAACCAGCAGGCCGCTTCTCCACACAGGAGGAATTACAGGCCAGGCTGTCTAGTGTAAATCGCTAAC  
 CAAGACCCATTGCTGTAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_031588  
**Insert Size:** 1911 bp

**OTI Disclaimer:** 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 [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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. [More info](#)

**Components:** 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).

**Reconstitution Method:**

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
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.

**RefSeq:** [NM\\_031588.2](#), [NP\\_113776.2](#)

**RefSeq Size:** 3246 bp

**RefSeq ORF:** 1911 bp

**Locus ID:** 112400

**Cytogenetics:** 16q12.3

**Gene Summary:** ligand for Erbb3 and Erbb4 receptors; gene produces many different alternative splicing isoforms; involved in neural and organ development [RGD, Feb 2006]  
 Transcript Variant: This variant (13) differs in the 5' UTR and coding sequence and lacks an alternate in-frame exon compared to variant 1. The resulting isoform (13) 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.