

Product datasheet for **RN216985**

Nrg1 (NM_001271121) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nrg1 (NM_001271121) 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: >RN216985 representing NM_001271121
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCTGAGCGCAAAGAAGGCAGAGGCAAGGGGAAGGCAAGAAGAAGGACCGGGGATCCCGCGGGAAGC
 CCGGGCCCGCGAGGGCGACCCGAGCCAGCACTGCCTCCAGATTGAAAGAAATGAAGAGCCAGGAGTC
 AGCTGCAGGCTCCAAGCTAGTGCTCCGGTGCGAAACCAGCTCCGAGTACTCCTCACTCAGATTCAAATGG
 TTCAAGAATGGGAACGAGCTGAACCGAAAAATAAACAGAAAACATCAAGATACAGAAGAAGCCAGGGA
 AGTCAGAGCTTGAATTAACAAAGCATCCCTGGCTGACTCTGGAGAGTATATGTGCAAAGTGATCAGCAA
 GTTAGGAAATGACAGTGCCTCTGCCAACATCACCATTGTTGAGTCAAACGCCACATCGACATCCACGACT
 GGGACCAGCCATCTCATAAAGTGC GCGGAGAAGGAGAAAACTTTCTGTGTGAATGGGGCGAGTGCTTCA
 CGGTGAAGGACCTGTCAAACCCGTCAAGATACTTGTGCAAGTGCCCAAATGAGTTTACTGGTGATCGTTG
 CCAAACTACGTAATGGCCAGCTTCTACAAAGCGGAGGAACTCTACCAGAAGAGGGTGCTGACAATTACT
 GGCATCTGTATCGCCCTGCTGGTGGTCCGCATCATGTGTGTGGTGGCCTACTGCAAAACCAAGAAGCAGC
 GGCAGAAGCTTATGATCGGCTTCGGCAGAGTCTTCGGTCAGAACGGAGCAACCTGGTGAACATAGCGAA
 TGGGCCTCACCACCAAAACCCACCGCCAGAGAAGTGCAGCTGGTGAATCAATACGTATCTAAAAACGTC
 ATCTCCAGTGAGCATATTGTTGAGAGAGAAGTGGAGACTTCTTTTCCACCAGTCATTACACTTCCACAG
 CCCATCACTCCACGACTGTCAACCAGACTCCTAGTCACAGCTGGAGTAATGGGCACACGGAGAGCATCAT
 TTCAGAAAGCAACTCCGTAATCATGATGTCTTCGGTAGAGAACAGCAGGCACAGCAGTCCCGCCGGGGC
 CCACGAGGACGTCTTATGGCCTGGGAGGCCCTCGTGATAACAGCTTCTCAGGCATGCCAGAGAAACCC
 CTGACTCTACAGAGACTCTCCTCATAGCGAAAGGTATGTATCAGCCATGACCACCCCGGCTCGTATGTC
 ACCTGTAGATTTCCACACGCCAAGCTCCCTAAATCGCCCCCTTCGGAAATGTCTCCACCCGTGTCCAGC
 ATGACGGTGTCAATGCCCTCTGTGGCAGTCAGCCCTTTGTGGAAGAAGAGAGGCCTCTGCTGCTTGTGA
 CGCCACCAAGGCTACGGGAGAAGAAATATGATCATCACCCCGCAACTCAACTCTTTTATCACAAACC
 TGCACATCAGAGTACCAGCCTCCCCCTAGCCACTGAGGATAGTGGAGGATGAGGAGTACGAGACGACC
 CAGGAGTATGAGTCAGTTCAAGAGCCGTTAAGAAAGTACCAATAGCCGGCGGGCCAAAAGAACCAAGC
 CCAATGGCCACATTGCCAATAGGTTGAAATGGACAGCAACACAAGTTCTGTGAGCAGTAACTCAGAAAG
 TGAGACAGAAGACGAAAGAGTAGGTGAAGACACACCATTCTGGGCATACAGAACCCCTGGCAGCCAGC
 CTTGAGGTGGCCCTGCCTTCCGTCTGGCTGAGAGCAGGACTAACCCAGCAGGCCGCTTCTCCACACAGG
 AGGAATTACAGGCCAGGCTGTCTAGTGAATCGCTAACCAAGACCCTATTGCTGT**ATA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM_001271121
- Insert Size:** 1809 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.
- 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_001271121.1](#), [NP_001258050.1](#)

RefSeq Size: 3144 bp

RefSeq ORF: 1809 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 (4) differs in the 5' UTR and coding sequence and lacks an alternate in-frame exon compared to variant 1. The resulting isoform (4) 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.