

Product datasheet for **RN217070**

Nrg1 (NM_001271127) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nrg1 (NM_001271127) 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: >RN217070 representing NM_001271127
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCTGAGCGCAAAGAAGGCAGAGGCAAGGGGAAGGCAAGAAGAAGGACCGGGGATCCCGCGGGAAGC
 CCGGGCCCGCGAGGGCGACCCGAGCCAGCACTGCCTCCAGATTGAAAGAAATGAAGAGCCAGGAGTC
 AGCTGCAGGCTCCAAGCTAGTGCTCCGGTGCGAAACCAGCTCCGAGTACTCCTCACTCAGATTCAAATGG
 TTCAAGAATGGGAACGAGCTGAACCGAAAAATAAACAGAAAACATCAAGATACAGAAGAAGCCAGGGA
 AGTCAGAGCTTGAATTAACAAAGCATCCCTGGCTGACTCTGGAGAGTATATGTGCAAAGTGATCAGCAA
 GTTAGGAAATGACAGTGCCTCTGCCAACATCACCATTGTTGAGTCAAACGAGTTCATCACTGGCATGCCA
 GCCTCGACTGAGACAGCCTATGTGCTCAGAGTCTCCATTAGAATCTCAGTTTCAACAGAAGGCGCAA
 ACATTCTTCATCCACATCGACATCCACGACTGGGACCAGCCATCTCATAAAGTGC GCGGAGAAGGAGAA
 AACTTTCTGTGTGAATGGGGCGAGTGCTTCACGGTGAAGGACCTGTCAAACCCGTCAGATACTTGTGC
 AAGTGCCCAAATGAGTTTACTGGTGATCGTTGCCAAAACCTACGTAATGGCCAGCTTCTACATGACTTCTA
 GGAGGAAAAGGCAAGAAACAGAGAAGCCTCTAGAAAAGAAAATTGGATCATAGCCTTGTGAAAGAATCGAA
 AGCGGAGGAACCTACCAGAAGAGGGTGTGACAATTACTGGCATCTGTATCGCCCTGCTGGTGGTCCGGC
 ATCATGTGTGTGGTGGCTACTGCAAAACCAAGAAGCAGCGGCAGAGCTTCATGATCGGCTTCGGCAGA
 GTCTTCGGTCAGAACGGAGCAACCTGGTGAACATAGCGAATGGGCTCACCACCCAAACCCACCGCCAGA
 GAACGTGCAGCTGGTGAATCAATACGTATCTAAAAACGTATCTCCAGTGAGCATATTGTTGAGAGAGAA
 GTGGAGACTTCTTTCCACCAGTCATTACACTCCACAGCCCATCACTCCACGACTGTCAACCCAGACTC
 CTAGTACAGCTGGAGTAATGGGCACACGGAGAGCATCATTTTCAGAAAGCAACTCCGTAATCATGATGTC
 TTCGGTAGAGAACAGCAGGCACAGCAGTCCCGCCGGGGGCCACGAGGAGTCTTCATGGCCTGGGAGGC
 CCTCGTGATAACAGCTTCTCAGGCATGCCAGAGAAACCCCTGACTCCTACAGAGACTCTCCTCATAGCG
 AAAGGTATGTATCAGCCATGACCACCCCGCTCGTATGTCACCTGTAGATTTCCACACGCCAAGCTCCCC
 TAAATCGCCCCCTTCGGAATGTCTCCACCCGTGTCCAGCATGACGGTGTCAATGCCCTCTGTGGCAGTC
 AGCCCCCTTTGGAAGAAGAGAGGCCTCTGCTGCTTGTGACGCCACCAAGGCTACGGGAGAAGAAATATG
 ATCATACCCCCAGCAACTCACTCCTTTCATCACAACCTGCACATCAGAGTACCAGCCTCCCCCTAG
 CCCACTGAGGATAGTGGAGGATGAGGAGTACGAGACGACCCAGGAGTATGAGTCAGTTCAAGAGCCCGTT
 AAGAAAGTCACCAATAGCCGGCGGGCCAAAAGAACCAAGCCAAATGGCCACATTGCCAATAGGTTGGAAA
 TGGACAGCAACACAAGTTCTGTGAGCAGTAACTCAGAAAGTGAGACAGAAGACGAAAGAGTAGGTGAAGA
 CACACCATTCTGGGCATACAGAACCCCTGGCAGCCAGCCTTGAGGTGGCCCTGCCTTCCGTCTGGCT
 GAGAGCAGGACTAACCCAGCAGGCCGCTTCTCCACACAGGAGGAATTACAGGCCAGGCTGTCTAGTGTA
 TCGCTAACCAAGACCCTATTGCTGTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001271127

Insert Size: 1989 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:	<ol style="list-style-type: none">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:	<u>NM_001271127.1, NP_001258056.1</u>
RefSeq Size:	3324 bp
RefSeq ORF:	1989 bp
Locus ID:	112400
Cytogenetics:	16q12.3
Gene Summary:	<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 (10) differs in the 5' UTR and coding sequence, lacks an alternate coding exon, and contains another alternate coding exon compared to variant 1. The resulting isoform (10) has a shorter and distinct N-terminus and contains 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>