

Product datasheet for **RN209883**

Nrg2 (NM_001136151) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nrg2 (NM_001136151) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Nrg2
Synonyms:	Ntak; NTAK_alpha2a
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN209883 representing NM_001136151
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCGGCAGGTTTGTGCTCAGCGCTGCCGCCCACTGGAGAAGGCTCGGTGCAGCAGCTACAGCTACA
 GCGACAGCAGCAGCAGCAGCAGCAACAACAGCAGCAGCAGCACCAGCAGCAGAAGCAGCAGCAGAAG
 CAGCAGCAGAAGCAGCAGAGGCAGCACACCACCACCAGCAGCAGCGAGAAGCAGCGGCAGCAACAGCGGC
 AGCATCTTCCGTCCCGCTGCGCCCCAGAGCCGCGGCCGAGCCACAGCCGAGCCCCGAGCCCCGAG
 CCCGGAGAGCCGCGCCCGCTCGCGAGCCGAGCCGCGCGGCATGAGGCGGACCCGGCCCCGGCTC
 CTCGATGCTGCTTTCGGTGTGCTACTCGCTGCTACTCGCCAGCCTCAAGTCCGTGCAGGACCAGGCG
 TACAAGGCACCCGTGGTGGTGGAGGGCAAGGTACAGGGACTGGCCCCGAGGCGGTTCCAGCTTAACA
 GCACCCGAGAGCCTCCCGCTCGGGTGGGTGGCGCTGGTGAAGGTGCTGGACAAGTGGCCGCTCCGGAG
 CGGGGGCTGCAGCGCAGCAGGTGATCAGCGTGGGCTCTGCGCGCCGCTCGAAAGGAACAGCGCTAC
 ATCTTTTTCTGGAGCCACCGAGCAGCCCTTAGTTTTTAAGACAGCCTTTGCCCGGTGACCCCTAACG
 GCAAAAACATCAAGAAAGAGGTGGGCAAGATCCTGTGCACTGACTGCGCAACCCGGCCCAAGCTGAAGAA
 GATGAAGAGTCAGACAGGAGAGGTGGGCGAGAAGCAGTCGCTCAAGTGTGAGGCGCGCGGGGAACCC
 CAGCCCTCCTATCGATGGTTCAAGGACGGCAAGGAGCTCAACCGAGTCGTGACATTCGATCAAGTATG
 GCAACGGCAGAAAGAACTCACGGCTACAGTTCAACAAAGTGAAGTGGAGGACGCTGGAGAGTACGTCG
 TGAGGCTGAGAATCCTTGGGAAGGACTGTGAGGGCCGGCTCCATGTCAACAGTGTGAGCACCCT
 CTGTCGCTCGTGGTGGGGCAGCCCGAAGTGAATGAGCAGCCAAGTCTACTGTGTGAATGGAGGCG
 TGTGCTACTACATCGAAGGCATCAACAACTCTCTGCAAAATGTCCAAACGGATTCTTCGGACAGAGTG
 TTTGGAGAAACTGCCTTTGCGATTGTACATGCCAGATCCTAAGCAAAAGGCTGAGGAGCTGTACCAGAAG
 AGAGTCTGACAATTACCGCATCTGTGTGGCTCTGCTGGTCTGGGCATCGTCTGTGTGGTTCGCTACT
 GCAAGACTAAAAACAGAGGAGGCAATGCATCACCATCTCCGGCAGAACATGTGTCGGGCCACCAGAA
 CCGAAGCTGGCCATGGGCCAGCCACCCTCGGCTGGACCCTGAGGAGATCCAGATGGCAGATTACATT
 TCCAAAAATGTGCCAGCTACAGACCATGTGATCCGGAGGGAAGCTGAGACCACATTTTCTGGGAGCCACT
 CCTGTTACCCTCTCACCCTGTCCACAGCCACACCCACCTCCAGCCACAGACATGAGAGCCACACGTCG
 GAGCTTGAACGTTCCGAGAGCCTGACCTCGGATTCAGTCCAGTCCAGTATCATCAGTGGGCACC
 AGCAAGTGAACAGCCAGCATGTGTGGAGGCACGGGCACGGAGGCAGCAGCCTACAGCCAGGAGGAGC
 GACGACGGGCTGCCATGCCACCCTACCAGACTCCATAGACTCGCTGCGTACTCCACACAGTGAAGAG
 GTACGTGTGAGCCCTGACCACGCCCGCGCGCTTTCCGCCGTTCCACTACTCGCTGGCCACCACG
 GTGCCGACTTTTCGAGATCACGTGCCCCAACTCTGCCACGCCGTGTCGCTGCCACCCGACGCGCCATCA
 GCTACCGCTAGCGGAGCAGCAGCCGCTCCTGCGGCACCCAGCGCCGCGCCGGCCGGGGCCAGGGCCCG
 AGCGGACATGCAGCGCAGCTACGACAGCTACTACTACCGGGCGCGGGCCCGGGCCGCGGGCGCGCC
 TGCGCGCTGGGAGGAGTTTGGGAGCCTGCCCGCCAGCCCTCCGATCCCGGAGGACGACGAGTACG
 AGACCACGCAGGAGTGCAGCCCCCGCCACCGCCGCGCGCCGCGCACGCGCGCGCGTCCCGCAGGACGTC
 GCGGGGCGCGCGCTGGCGGCGCTCCCGCTCAACGGGTTGGTGCAGCGCGCACGCGCAGCGCGCG
 GACTCGTGTGTTGAGCAGCGGTTCCGGCTCGGCTCGGCTCGGCCTCGGACGACGATGCGGACGACG
 CGGACGGGGCGCTGGCGGCCGAGAGCACGCTTTCTCGGCTGCGAGGCGCGCACGACGCGCTGCGCTC
 GGACTCGCGCGCTCTGCCCGCGCGGACAGCAGGACTTACTACTCCCTGGACAGCCACAGCAGCGCG
 GCCAGCAGCAGACAGCCGGGGCCGCCACGAGGGCAAGCAGGACTCCGGGCCCT**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001136151
Insert Size: 2583 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).
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_001136151.1</u> , <u>NP_001129623.1</u>
RefSeq Size:	3077 bp
RefSeq ORF:	2583 bp
Locus ID:	432361
UniProt ID:	<u>O35569</u>
Cytogenetics:	18p11
Gene Summary:	Direct ligand for ERBB3 and ERBB4 tyrosine kinase receptors. Concomitantly recruits ERBB1 and ERBB2 coreceptors, resulting in ligand-stimulated tyrosine phosphorylation and activation of the ERBB receptors. May also promote the heterodimerization with the EGF receptor. [UniProtKB/Swiss-Prot Function]