

Product datasheet for **RR209883**

Nrg2 (NM_001136151) Rat Tagged ORF Clone

Product data:

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



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ORF Nucleotide
Sequence:

>RR209883 representing NM_001136151
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCGGCAGGTTTGTGCTCAGCGCTGCCGCCCACTGGAGAAGGCTCGGTGCAGCAGCTACAGCTACA
 GCGACAGCAGCAGCAGCAGCAGCAACAACAGCAGCAGCAGCACCAGCAGCAGAAGCAGCAGCAGAAG
 CAGCAGCAGAAGCAGCAGAGGCAGCACCACCACCAGCAGCAGCGAGAAGCAGCGGCAGCAACAGCGGC
 AGCATCTTCCGTCCCGCTGCGCCCCAGAGCCGCGGCCGAGCCACAGCCGAGCCCCGAGCCCCGAG
 CCCGGAGAGCCGCGCCCGCTCGCGAGCCGAGCCGCGCGGCATGAGGCGGACCCGGCCCCGGCTC
 CTCGATGCTGCTTTCGGTGTGCTACTCGCTGCTACTCGCCAGCCTCAAGTCCGTGCAGGACCAGGCG
 TACAAGGCACCCGTGGTGGTGGAGGGCAAGGTACAGGGACTGGCCCCGAGGCGGTTCCAGCTTAACA
 GCACCCGAGAGCCTCCCGCTCGGGTGGGTGGCGCTGGTGAAGGTGCTGGACAAGTGGCCGCTCCGGAG
 CGGGGGCTGCAGCGCAGCAGGTGATCAGCGTGGGCTCTGCGCGCCGCTCGAAAGGAACCAGCGCTAC
 ATCTTTTTCTGGAGCCACCGAGCAGCCTTAGTTTTTAAGACAGCCTTTGCCCCGGTTCGACCCTAACG
 GCAAAAACATCAAGAAAGAGGTGGGCAAGATCCTGTGCACTGACTGCGCAACCCGGCCCAAGCTGAAGAA
 GATGAAGAGTCAGACAGGAGAGGTGGGCGAGAAGCAGTCGCTCAAGTGTGAGGCGCGCGGGGAACCC
 CAGCCCTCCTATCGATGGTTCAAGGACGGCAAGGAGCTCAACCGAGTCGTGACATTCGATCAAGTATG
 GCAACGGCAGAAAGAAGTACAGGCTACAGTTCAACAAAGTGAAGTGGAGGACGCTGGAGAGTACGTCG
 TGAGGCTGAGAATCCTTGGGAAGGACTGTGAGGGCCGGCTCCATGTCAACAGTGTGAGCACCCT
 CTGTCGTCCTGGTCGGGGCAGCCCCGGAAGTGAATGAGCAGCCAAGTCTACTGTGTGAATGGAGGCG
 TGTGCTACTACATCGAAGGCATCAACAACTCTCTGCAAAATGTCCAAACGGATTCTTCGGACAGATG
 TTTGGAGAAACTGCCTTTGCGATTGTACATGCCAGATCCTAAGCAAAAGGCTGAGGAGCTGTACCAGAAG
 AGAGTCTGACAATTACCGCATCTGTGTGGCTCTGCTGGTCTGGGCATCGTCTGTGTGGTTCGCTACT
 GCAAGACTAAAAACAGAGGAGGCAATGCATCACCATCTCCGGCAGAACATGTGTCCGGCCACCAGAA
 CCGAAGCTGGCCATGGGCCAGCCACCCTCGGCTGGACCCTGAGGAGATCCAGATGGCAGATTACATT
 TCCAAAAATGTGCCAGCTACAGACCATGTGATCCGGAGGGAAGCTGAGACCACATTTTCTGGGAGCCACT
 CCTGTTACCCTCTCACCCTGTCCACAGCCACACCCACCTCCAGCCACAGACATGAGACCACACGTCG
 GAGCTTGAACGTTCCGAGAGCCTGACCTCGGATTCAGTCCAGTCCAGTATCATCAGTGGGCACC
 AGCAAGTGAACAGCCAGCATGTGTGGAGGCACGGGCACGGAGGCAGCAGCCTACAGCCAGGAGGAGC
 GACGCAGGGCTGCCATGCCACCCTACCAGACTCCATAGACTCGTGCCTGACTCCACACAGTGAAGAG
 GTACGTGTGAGCCCTGACCACGCCCGCGCGCTTTCCGCCGTTCCACTACTCGCTGGCCACCACGAG
 GTGCCGACTTTGAGATCACGTGCCCAACTCTGCCACGCCGTGTGCTGCCACCCGAGCGCCCATCA
 GCTACCGCTAGCGGAGCAGCAGCCGCTCCTGCGGCACCCAGCGCCGCGCCGGCCGGGGCCAGGGCCCGG
 AGCGGACATGCAGCGCAGCTACGACAGTACTACTACCGGGCGCGGGCCCGGGCCGCGGGCGCGCC
 TGCGCGCTGGGAGGAGTTTGGGAGCCTGCCCGCCAGCCCTCCGATCCCGGAGGACGACGAGTACG
 AGACCACGAGGAGTGCAGCCCCCGCCACCGCCGCGCGGCACGCGCGCGCGTCCCGCAGGACGTCG
 GCGGGGCGCGCGCTGGCGCGCTCCCGCTCAACGGTTGGCTGCGCAGCGCGCACGCGCAGCGCGG
 GACTCGCTGTGTTGAGCAGCGGTTCCGGCTCGGCTCGGCTCGGCCTCGGACGACGATGCGGAGCAGC
 CGGACGGGGCGTGGCGCCGAGAGCACGCTTTCTCGGCTGCGAGGCGCGCACGACGCGCTGCGCTC
 GGACTCGCCGCGCTCTGCCCGCGGGCAGCAGGACTTACTACTCCCTGGACAGCCACAGCAGCGCG
 GCCAGCAGCAGACAGCCGGGGCCGCCACGAGGGCAAGCAGGACTCCGGGCCCTC

ACGGTACGGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR209883 representing NM_001136151
 Red=Cloning site Green=Tags(s)

MRQVCCSALPPPLEKARCSSYSYSDSSSSSSNNSSSSTSSRSSSRSSSRSGSTTTTSSSENSGSNSG
 SIFRPAAPPEPRPQPQPQRSPAARRAAARSRAAAAGGMRRDPAPGSSMLLFGVSLACYSPLKSVQDQA
 YKAPVVVEGKVQGLAPAGGSSNSTREPPASGRVALVKVLDKWPLRSGGLQREQVISVGSCAPLERNQRY
 IFFLEPTEQPLVFKTAFAPVDPNGKNIKKEVGKILCTDCATRPKLKKMKSQTGEVGEKQSLKCEAAAGNP
 QPSYRWFKDGKELNRSRDIRIKYNGRKNRSLQFNKVKVEDAGEYVCEAENILGKDTVGRGLHVNSVSTT
 LSSWSGHARKCNETAKSYCVNGGVCYYIEGINQLSCKCPNGFFGQRCLEKLPLRLYMPDPKQKAEELYQK
 RVLITIGICVALLVVGIVCVVAYCKTKKQRRQMHHHLRQNMCPAHQNRSLANGPSHPRLDPEEIQMADYI
 SKNVPATDHSVIRREAETTFSGSHSCSPSHHCSTATPTSSHRHESHTWLSERSELTSDSQSGIMLSSVGT
 SKCNSPACVEARARRAAAYSQEERRRAAMPPYHDSIDSLRDSPHSERYVSALTPARLSPVDFHYSLATQ
 VPTFEITSPNSAHAVSLPPAAPISYRLAEQQPLL RHPAPPGPGPGGADMQRSYDSYYYYPAAGPGRRGA
 CALGGSLSLSPASPFRIPEDEYETTQECAPPPPPRPRTRGASRRTSAGPRRWRRLNGLAAQRARAAR
 DSLSLSSGSGCSASASDDDDADDADGALAAESTPFLGLRAAHDALRSDSPPLCPAADSRTYYSLDSHSTR
 ASSRHSRGPPTRAKQDSGPL

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-Mlul

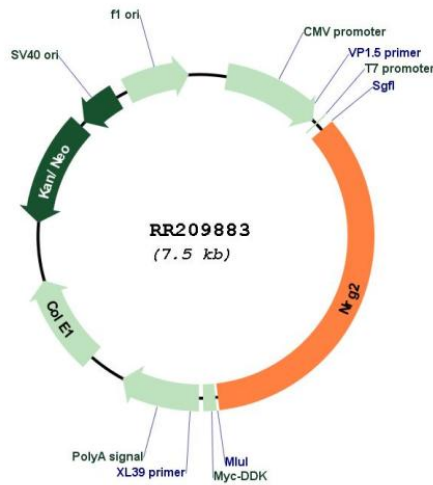
Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN:	NM_001136151
ORF Size:	2580 bp
OTI Disclaimer:	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
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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:	NM_001136151.1 , NP_001129623.1
RefSeq Size:	3077 bp
RefSeq ORF:	2583 bp
Locus ID:	432361
UniProt ID:	O35569
Cytogenetics:	18p11
MW:	92.8 kDa
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]