

Product datasheet for **RR216985**

Nrg1 (NM_001271121) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nrg1 (NM_001271121) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nrg1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RR216985 representing NM_001271121
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTCTGAGCGCAAAGAAGGCAGAGGCAAGGGGAAGGCAAGAAGAAGGACCGGGGATCCCGCGGGAAGC
 CCGGGCCCGAGGGCGACCCGAGCCAGCACTGCCTCCAGATTGAAAAGAAATGAAGAGCCAGGAGTC
 AGCTGCAGGCTCCAAGCTAGTGCTCCGGTGCGAAACCAGCTCCGAGTACTCCTCACTCAGATTCAAATGG
 TTCAAGAATGGGAACGAGCTGAACCGAAAAATAAACAGAAAACATCAAGATACAGAAGAAGCCAGGGA
 AGTCAGAGCTTGAATTAACAAAGCATCCCTGGCTGACTCTGGAGAGTATATGTGCAAAGTGATCAGCAA
 GTTAGGAAATGACAGTGCCTCTGCCAACATCACCATTGTTGAGTCAAACGCCACATCGACATCCACGACT
 GGGACCAGCCATCTATAAAGTGC GCGGAGAAGGAGAAAACTTTCTGTGTGAATGGGGCGAGTGCTTCA
 CGGTGAAGGACCTGTCAAACCCGTCAAGATACTTGTGCAAGTGCCAAAATGAGTTTACTGGTGATCGTTG
 CCAAACTACGTAAATGGCCAGCTTCTACAAAGCGGAGGAACTCTACCAGAAGAGGGTGCTGACAATTACT
 GGCATCTGTATCGCCCTGCTGGTGGTCCGCATCATGTGTGTGGTGGCCTACTGCAAAACCAAGAAGCAGC
 GGCAGAAGCTTATGATCGGCTTCGGCAGAGTCTTCGGTCAGAACGGAGCAACCTGGTGAACATAGCGAA
 TGGGCCTCACCACCAAAACCCACCGCCAGAGAAGTGCAGCTGGTGAATCAATACGTATCTAAAAACGTC
 ATCTCCAGTGAGCATATTGTTGAGAGAGAAGTGGAGACTTCTTTTCCACCAGTCATTACACTTCCACAG
 CCCATCACTCCACGACTGTCAACCAGACTCCTAGTCACAGCTGGAGTAAATGGGCACACGGAGAGCATCAT
 TTCAGAAAAGCAACTCCGTAATCATGATGTCTTCGGTAGAGAACAGCAGGCACAGCAGTCCCGCGGGGGC
 CCACGAGGACGTCTTATGGCCTGGGAGGCCCTCGTATAACAGCTTCTCAGGCATGCCAGAGAAAACCC
 CTGACTCTACAGAGACTCTCTCATAGCGAAAGGTATGTATCAGCCATGACCACCCGGCTCGTATGTC
 ACCTGTAGATTTCCACACGCCAAGCTCCCTAAATCGCCCCCTTCGGAAAATGTCTCCACCCGTGTCAGC
 ATGACGGTGTCAATGCCCTCTGTGGCAGTCAGCCCTTTGTGGAAGAAGAGAGGCCCTCTGCTGCTTGTGA
 CGCCACCAAGGCTACGGGAGAAGAAATATGATCATCACCCCCAGCAACTCAACTCTTTTATCACAAACC
 TGCACATCAGAGTACCAGCCTCCCCCTAGCCACTGAGGATAGTGGAGGATGAGGAGTACGAGACGACC
 CAGGAGTATGAGTCAGTTCAAGAGCCCCTTAAGAAAGTACCAATAGCCGGCGGGCCAAAAGAACCAAGC
 CCAATGGCCACATTGCCAATAGGTTGAAATGGACAGCAACACAAGTTCTGTGAGCAGTAACTCAGAAAG
 TGAGACAGAAGACGAAAGAGTAGGTGAAGACACACCATTCTGGGCATACAGAACCCCTGGCAGCCAGC
 CTTGAGGTGGCCCTGCCTTCCGTCTGGCTGAGAGCAGGACTAACCCAGCAGGCCGCTTCTCCACACAGG
 AGGAATTACAGGCCAGGCTGTCTAGTGAATCGCTAACCAAGACCCTATTGCTGTA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR216985 representing NM_001271121
 Red=Cloning site Green=Tags(s)

MSEKKEGRGKGGKGGKDRGSRGKPGPAEGDPSPALPPRLKEMKSQESAAGSKLVLRCESTSEYSSSLRFKW
 FKNGNELNRKNKPENIKIQKPKGKSELINKASLADSGEYMCKVISKLGNDASANITIVESNATSTSTT
 GTSHLIKAEKEKTFVNGGECFTVKDLNPSRYLCKCPNEFTGDRQNYVMASFYKAEELYQKRVLTIT
 GICIALLVVIMCVVAYCKTKKQRQLHDRLRQSLRSERSNLVNIANGPHHPNPPENVQLVNQYVSKNV
 ISSEHIVEREVETSFSTSHYTSTAHSTVTQTPSHSWSNGHTESI ISESNSVIMSSVENSRRHSSPAGG
 PRGRLHGLGGPRDNSFLRHARETPDSYRDSPHSERYVSAMTTPARMSPVDFHTPSSPKSPPSEMSPVSS
 MTVSMPSVAVSPFVEEERPLLLVTPPRLREKKYDHHPPQLNSFHHPAHQSTSLPPSPLRIVEDEEYETT
 QEYESVQEPVKKVTNRRARRTKPNGHIANRLEMSNTSSVSSNSESETEDEVDGDTPLGLIQNPLAAS
 LEVAPAFRLAESRTNPAGRFSTQEELQARLSSVIANQDPIAV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001271121

ORF Size: 1806 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:

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

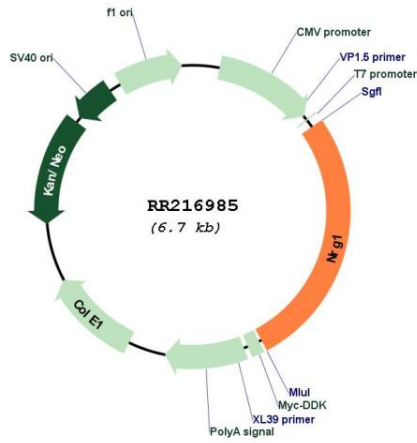
Locus ID: 112400

Cytogenetics: 16q12.3

MW: 66.6 kDa

Gene Summary: ligand for ErbB3 and ErbB4 receptors; gene produces many different alternative splicing isoforms; involved in neural and organ development [RGD, Feb 2006]

Product images:



Circular map for RR216985