

Product datasheet for **RR217047**

Nrg1 (NM_001271130) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nrg1 (NM_001271130) 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:

>RR217047 representing NM_001271130
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGCCGGATGCCAACAGCAGCGGCCGCGCCGCCCGCTTCCGAGCCTCGTTCCCCACTGGAGA
 CTGGCCGCAACCTCAAGAAGGAGGTCAGCCGGGTGTTGTGCAAGCGGTGCGCACTGCCTCCAGATTGAA
 AGAAATGAAGAGCCAGGAGTCAGCTGCAGGCTCCAAGCTAGTGCTCCGGTGCGAAACCAGCTCCGAGTAC
 TCCTCACTCAGATTCAAATGTTCAAGAATGGGAACGAGCTGAACCGAAAAATAAACAGAAAACATCA
 AGATACAGAAGAAGCCAGGGAAGTCAGAGCTTCGAATTAACAAGCATCCCTGGCTGACTCTGGAGAGTA
 TATGTGCAAAAGTGATCAGCAAGTTAGGAAATGACAGTGCCTCTGCCAACATCACCATTGTTGAGTCAAAC
 GAGTTCATCACTGGCATGCCAGCCTCGACTGAGACAGCCTATGTGCCTCAGAGTCTCCATTAGAATCT
 CAGTTTCAACAGAAGGCGCAAACACTTCTTCATCCACATCGACATCCACGACTGGGACCAGCCATCTCAT
 AAAGTGCCGGGAGAAGGAGAAAACCTTTCTGTGTGAATGGGGGCGAGTGCTTCACGGTGAAGACCTGTCA
 AACCCGTC AAGATACTTGTGCAAGTGCCAAATGAGTTTACTGGTGATCGTTGCCAAAACACTCGTAATGG
 CCAGCTTCTACAAGCATCTTGGGATTGAATTTATGGAAGCGGAGGAACTCTACCAGAAGAGGGTGCTGAC
 AATTACTGGCATCTGTATCGCCCTGCTGGTGGTCGGCATCATGTGTGTGGTGGCCTACTGCAAAACCAAG
 AAGCAGCGGCAGAAGCTTCATGATCGGCTTCGGCAGAGTCTTCGGTCAGAACGGAGCAACCTGGTGAACA
 TAGCGAATGGGCTCACCAACCAACCCACCGCCAGAGAACGTGCAGCTGGTGAATCAATACGTATCTAA
 AAACGTCACTCCAGTGAGCATATTGTTGAGAGAGAAGTGAGACTTCTTTTCCACCAGTCATTACACT
 TCCACAGCCCATCACTCCACGACTGTCAACCAGACTCCTAGTCACAGCTGGAGTAATGGGCACACGGAGA
 GCATCATTTAGAAAAGCAACTCCGTAATCATGATGTCTTCGGTAGAGAACAGCAGGCACAGCAGTCCCGC
 CGGGGGCCACAGGACGCTTTCATGGCCTGGGAGGCCCTCGTGATAACAGCTTCTCAGGCATGCCAGA
 GAAACCCCTGACTCCTACAGAGACTCTCCTCATAGCGAAAGGTATGTATCAGCCATGACCACCCCGGCTC
 GTATGTCACTGTAGATTTCCACACGCCAAGCTCCCCTAAATCGCCCCCTTCGGAATGTCTCCACCCGT
 GTCCAGCATGACGGTGTCAATGCCCTCTGTGGCAGTCAGCCCCTTTGTGGAAGAAGAGAGGCCTCTGCTG
 CTTGTGACGCCACCAAGGCTACGGGAGAAGAAATATGATCATCACCCCAAGCACTCACTCCTTTTCATC
 ACAACCTGCACATCAGAGTACCAGCCTCCCCCTAGCCCACTGAGGATAGTGGAGGATGAGGAGTACGA
 GACGACCCAGGAGTATGAGTCAGTTCAAGAGCCCGTTAAGAAAAGTCACCAATAGCCGGCGGGCCAAAAGA
 ACCAAGCCCAATGGCCACATTGCCAATAGTTGGAAATGGACAGCAACACAAGTTCTGTGAGCAGTAACT
 CAGAAAAGTGAGACAGAAGACGAAAGAGTAGGTGAAGACACACCATTCTGGGCATACAGAACCCCTGGC
 AGCCAGCCTTGAGGTGGCCCTGCCTTCCGTCTGGCTGAGAGCAGGACTAACCCAGCAGGCCGCTTCTCC
 ACACAGGAGGAATTACAGGCCAGGCTGTCTAGTGTAAATCGCTAACCAAGACCCTATTGCTGTA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR217047 representing NM_001271130
Red=Cloning site Green=Tags(s)

MEPDANSSGRAPPAFRASFPPLETGRNLKKEVSRVLCRRCALPPRLKEMKSQESAAGSKLVLCETSSEY
 SSLRFKWFKNGNELNRKNPENIKIQKKPGKSELRINKASLADSGEYMCKVISKLGNDASANITIVESN
 EFITGMPASTETAYVSSSEPIRISVSTEGANTSSSTSTTTGTSHLIKCAEKEKTFVNGGECFTVKDLS
 NPSRYLCKPNEFTGDRCONYVMASFYKHLGIEFMEAEELYQKRVLTITGICIALLVGIMCVVAYCKTK
 KQRQKLHDLRQSLRSERSNLVNIANGPHHPNPPENVQLVNQYVSKNVI SSEHIVEREVTSFSTSHYT
 STAHHSTVTQTPSHSWSNGHTESIISESNSVIMSSVENSRRHSSPAGGPRGRLHGLGGPRDNSFLRHAR
 ETPDSYRSPHSERYVSAMTTPARMSPVDFHTPSSPKSPPSEMSPPVSSMTVSMPSVAVSPFVEEERPLL
 LVTPPRLREKKYDHPQQLNSFHHPAHQSTSLPPSPLRIVEDEEYETTQEYESVQEPVKVNTSRRAKR
 TKPNGHIANRLEMSNTSSVSSNSESETEDERVGEDTPFLGIQNPLAASLEVAPAFRLAESRTNPAGRFS
 TQEELQARLSSVIANQDPIAV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_001271130

ORF Size: 1953 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_001271130.1](#), [NP_001258059.1](#)

RefSeq Size: 3340 bp

RefSeq ORF: 1956 bp

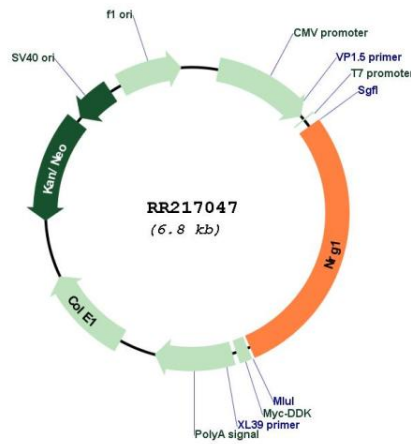
Locus ID: 112400

Cytogenetics: 16q12.3

MW: 72 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 RR217047