

Product datasheet for **RR217114**

Nrg1 (NM_001271119) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nrg1 (NM_001271119) 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:

>RR217114 representing NM_001271119
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGGAGATTTATTCCCCAGACATGTCTGAGGTAGCTGGCGGGAGGTCCTCCAGCCCTCCACTCAGCTGA
GTGCAGCCCATCTCTTGATGGCTTCCGGCAGCGGAGGAACATATACCAGACACCCACACAGAAGATGA
GAGAAGCCCTGGACTCCTGGGCCTGGCGGTGCCCTGCTGTGTGTGCCTGGAAGCTGAGCGCTGAGAGGG
TGTCTCAACTCCGAGAAGATCTGCATTGTTCCATTCTGGCTTGCCTAGTCAGCCTCTGCCTCTGCATTG
CTGGCCTGAAGTGGGATTTGTGGACAAGATATTTGAATACGACTCTCTACCCACCTTGACCCTGGGGG
GTTAGGCCAGGACCCTGTGATTTCTCTGGATCCAAGTCTGCCCCAGCCATTTTGGTATCATCTGAGGCA
TACACTTACCTGTCTAAGGCTCAGTCTGAAGCTGGGCTCATGTTACAGTACAAGGTGACCATGCTG
CTGTGGCCTCTGAACCTCAGCAGTACCGACCCGGAAGAACCCTGGTGTCTGCTTTTCTCCCTTTCCTC
TACTGCACCGCCCTTCCCTTCTCCAGCTCGGACCCTGAGGTGAGAACACCCAAGTCAGGAACTCAGCCA
CAAACAACAGAACTAACCTGCAAAGTCTCTAAACTTCCACATCGACATCCAGGACTGGGACCAGCC
ATCTCATAAAGTGCAGGAGAAGGAGAAAATTTCTGTGTGAATGGGGGGAGTGCCTTCCAGGTGAAGGA
CCTGTCAAACCCGTCAAGATACTTGTGCAAGTGCCAACCTGGATTCACTGGAGCAAGATGTACTGAGAAT
GTACCCATGAAAGTCAAACCCAAGAAAAGCGGAGGAACTCTACCAGAAGAGGGTGTGACAATTACTG
GCATCTGTATCGCCCTGCTGGTGGTCCGCATCATGTGTGTGGTGGCCTACTGCAAACCAAGAAGCAGCG
GCAGAAGCTTCATGATCGGCTTCGGCAGAGTCTTCGGTCAGAACGGAGCAACCTGGTGAACATAGCGAAT
GGGCTCACACCCAAACCCACCGCCAGAGAACGTGCAGCTGGTGAATCAATACGTATCTAAAAACGTCA
TCTCCAGTGAGCATATTGTTGAGAGAGAAGTGGAGACTTCCTTTTCCACCAGTCATTACACTTCCACAGC
CCATCACTCCACGACTGTCACCCAGACTCCTAGTCACAGCTGGAGTAATGGGCACACGGAGAGCATCATT
TCAGAAAGCAACTCCGTAATCATGATGTCTTCGGTAGAGAACAGCAGGCACAGCAGTCCCGCCGGGGCC
CACGAGGACGTCTTCATGGCCTGGGAGGCCCTCGTGATAACAGCTTCTCAGGCATGCCAGAGAAAACCC
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CCTGTAGATTTCCACACGCCAAGCTCCCTAAATCGCCCCCTTCGAAATGTCTCCACCCGTGTCCAGCA
TGACGGTGTCAATGCCCTCTGTGGCAGTCAGCCCTTTGTGGAAGAAGAGAGGCCCTCTGCTGTTGTGAC
GCCACCAAGGCTACGGGAGAAGAAATATGATCATCACCCAGCAACTCAACTCCTTTCATCACAACCT
GCACATCAGAGTACCAGCCTCCCCCTAGCCACTGAGGATAGTGGAGGATGAGGAGTACGAGACGACCC
AGGAGTATGAGTCAGTTC AAGAGCCGTTAAGAAAGTCACCAATAGCCGGCGGGCCAAAAGAACCAAGCC
CAATGGCCACATTGCCAATAGGTTGAAATGGACAGCAACACAAGTTCTGTGAGCAGTAACTCAGAAAGT
GAGACAGAAGACGAAAGAGTAGGTGAAGACACACCATTCTGGGCATACAGAACCCCTGGCAGCCAGCC
TTGAGGTGGCCCTGCCTTCCGCTCTGGCTGAGAGCAGGACTAACCAGCAGGCCGCTTCTCCACACAGGA
GGAATTACAGGCCAGGCTGTCTAGTGTAAATCGCTAACCAAGACCCTATTGCTGTA

ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR217114 representing NM_001271119
Red=Cloning site Green=Tags(s)

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MEIYSPDMSEVAGGRSSSPSTQLSAAPSLDGLPAAEEHIPDTHTEDERSPGLLGLAVPCCVCLEAERLRG
CLNSEKICIVPILACLVSLCLCIAGLKWVFDKIFEYDSPHLDPGGLGQDPVISLDPTAAPAILVSSEA
YTSPPVSKAQSEAGAHVTVQGDHAAVASEPSAVPTRKNRLSAFPPFHSTAPPFPSPARTPEVRTPKSGTQP
QTTETNLQTAPKLSTSTSTTGTSHLIKCAEKEKTFVNGGECFTVKDLSNPSRYLCKCQPGFTGARCTEN
VPMKVQTEKAEELYQKRVLITGICIAILLVVGIMCVVAYCKTKKQKQLHDRLRQSLRSERSNLVNIAN
GPHHPNPPPEENVQLVNQYVSKNVISSEHIVEREVETSFSTSHYTSSTAHHSTTVTQTPSHSWSNGHTESII
SESNSVIMSSVENSRHSSPAGGPRGRLHGLGGPRDNSFLRHARETPDSYRDSPHSERYVSAMTTPARMS
PVDFHTPSSPKSPPSEMSPPVSSMTVSMPSVAVSPFVEEERPLLLVTPPRLREKKYDHPQQLNSFHHPN
AHQSTSLPPSPLRIVEDEEYETTQEYESVQEPVKKVTNSRRAKRTKPNGHIANRLEMSNTSSVSSNSE
ETEDERVGEDTPFLGIQNPLAASLEVAPAFRLAESRTNPAGRFSTQEELQARLSSVIANQDPIAV
    
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001271119

ORF Size: 2085 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_001271119.1](#), [NP_001258048.1](#)

RefSeq Size: 3700 bp

RefSeq ORF: 2088 bp

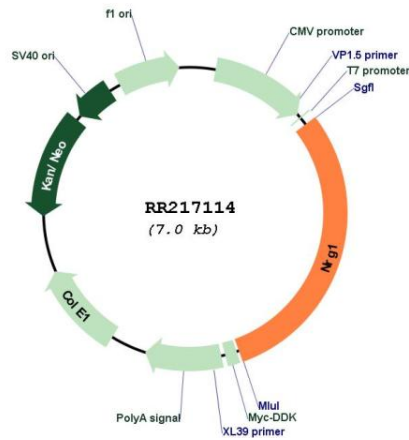
Locus ID: 112400

Cytogenetics: 16q12.3

MW: 75.6 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 RR217114