

Product datasheet for **RR217120**

Nrg1 (NM_001271118) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nrg1 (NM_001271118) 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:

>RR217120 representing NM_001271118
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAGATTTATTCCCCAGACATGTCTGAGGTAGCTGGCGGGAGGTCCTCCAGCCCTCCACTCAGCTGA
 GTGCAGCCCATCTCTTATGGGCTTCCGGCAGCGGAGGAACATATACCAGACACCCACACAGAAGATGA
 GAGAAGCCCTGGACTCCTGGGCCTGGCGGTGCCCTGCTGTGTGTGCCTGGAAGCTGAGCGCTGAGAGGG
 TGTCTCAACTCCGAGAAGATCTGCATTGTTCCATTCTGGCTTGCCTAGTCAGCCTCTGCCTCTGCATTG
 CTGGCCTGAAGTGGGATTTGTGGACAAGATATTTGAATACGACTCTCTACCCACCTTGACCCTGGGGG
 GTTAGGCCAGGACCCTGTGATTTCTCTGGATCCAACTGCTGCCCCAGCCATTTTGGTATCATCTGAGGCA
 TACACTTACCTGTCTAAGGCTCAGTCTGAAGCTGGGGCTCATGTTACAGTACAAGGTGACCATGCTG
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 TACTGCACCGCCCTTCCCTTCTCCAGCTCGGACCCTGAGGTGAGAACACCCAAGTCAGGAACTCAGCCA
 CAAACAACAGAACTAACTGCAAAGTCTCTAACTTTCCACATCGACATCCACGACTGGGACCAGCC
 ATCTCATAAAGTGCAGGAGAAGGAGAAAATTTCTGTGTGAATGGGGGGAGTGCTTACCGGTGAAGGA
 CCTGTCAAACCCGTCAAGATACTTGTGCAAGTGCCCAAATGAGTTTACTGGTGATCGTTGCCAAAATAC
 GTAATGGCCAGCTTCTACAAGCATCTTGGGATTGAATTTATGGAAGCGGAGGAACCTACCAGAAGAGGG
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 AACCAAGAAGCAGCGGAGAGCTTTCATGATCGGCTTCCGCAGAGTCTTCGGTCAGAACGGAGCAACCTG
 GTGAACATAGCGAATGGGCTCACCACCCAAACCACCCAGAGAACGTGCAGCTGGTGAATCAATACG
 TATCTAAAAACGTCATCTCCAGTGAGCATATTGTTGAGAGAGAAGTGGAGACTTCTTTTCCACCAGTCA
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 ACGGAGAGCATATTTAGAAAAGCAACTCCGTAATCATGATGTCTTCCGTAGAGAACAGCAGGCACAGCA
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 CCGGCTCGTATGTCACCTGTAGATTTCCACAGCCAAGTCCCTAAATCGCCCCCTTGGAAATGTCTC
 CACCCGTGTCCAGCATGACGGTGTCAATGCCCTCTGTGGCAGTCAGCCCTTTGTGGAAGAAGAGAGGCC
 TCTGCTGCTTGTGACGCCACCAAGGCTACGGGAGAAGAAATATGATCATACCCCCAGCAACTCACTCC
 TTTTCATACAACCTGCACATCAGAGTACCAGCCTCCCCCTAGCCCACTGAGGATAGTGGAGGATGAGG
 AGTACGAGACGCCAGGAGTATGAGTCAGTTCAAGAGCCGTTAAGAAAGTCACCAATAGCCGGCGGGC
 CAAAAGAACAAGCCCAATGGCCACATTGCCAATAGGTTGAAAATGGACAGCAACACAAGTTCTGTGAGC
 AGTAACTCAGAAAGTGAAGACAGAAGACGAAAGAGTAGGTGAAGACACACCATTCTGGGCATACAGAACC
 CCCTGGCAGCCAGCCTTGAGGTGGCCCTGCTTCCGTCTGGCTGAGAGCAGGACTAACCAGCAGGCCG
 CTTCTCCACACAGGAGGAATTACAGGCCAGGCTGTCTAGTGAATCGCTAACCAAGACCCTATTGCTGTA

ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR217120 representing NM_001271118
Red=Cloning site Green=Tags(s)

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MEIYSPDMSEVAGGRSSSPSTQLSAAPSLDGLPAAEEHIPDTHTEDERSPGLLGLAVPCCVCLEAERLRG
CLNSEKICIVPILACLVSLLCLCIAGLKWVFDKIFEYDSPHLDPGGLGQDPVISLDPTAAPAILVSSEA
YTSVPVSKAQSEAGAHVTVQGDHAAVASEPSAVPTRKNRLSAFPPFHSTAPPFPSPARTPEVRTPKSGTQP
QTTETNLQTAPKLSTSTSTTGTSHLIKCAEKEKTFVNGGECFTVKDLSNPSRYLCKCPNEFTGDRCQNY
VMASFYKHLGIEFMEAELYQKRVLTITGICIAILLVVGIMCVVAYCKTKKQRQLHDRLRQSLRSERSNL
VNIANGPHHPNPPENVQLVNQYVSKNVISSEHIVEREVETSFSTSHYTSTAHHSTTVTQTPSHSWSNGH
TESIISESNSVIMSSVENSRHSSPAGGPRGRHLHGLGPRDNSFLRHARETPDSYRDSPHSERYVSAMTT
PARMSPVDFHTPSSPKSPPSEMSPVSSMTVSMPSVAVSPFVEEERPLLLVTPPRLREKKYDHPQQLNS
FHHNPAHQSTSLPPSPLRIVEDEEYETTQEYESVQEPVKKVTNSRRAKRTKPNGHIANRLEMSDNTSSVS
SNSESETEDERVGEDTPFLGIQNPLAASLEVAPAFRLAESRTNPAGRFSTQEELQARLSSVIANQDPIAV
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_001271118

ORF Size: 2100 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_001271118.1](#), [NP_001258047.1](#)

RefSeq Size: 3715 bp

RefSeq ORF: 2103 bp

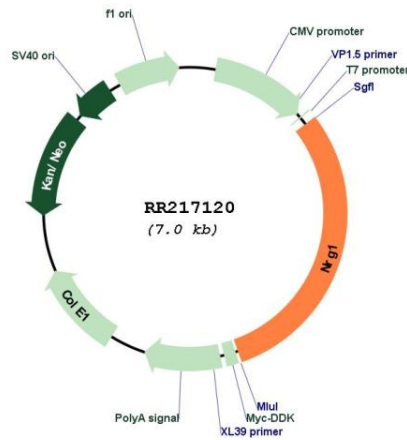
Locus ID: 112400

Cytogenetics: 16q12.3

MW: 76.4 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 RR217120