

Product datasheet for **RR216827**

Nrg1 (NM_001271120) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nrg1 (NM_001271120) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nrg1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR216827 representing NM_001271120
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGAGATTTATTCCCCAGACATGTCTGAGGTAGCTGGCGGGAGGTCCTCCAGCCCTCCACTCAGCTGA
 GTGCAGCCCATCTTTGATGGCTTCCGGCAGCGGAGGAACATATACCAGACACCCACACAGAAGATGA
 GAGAAGCCCTGGACTCCTGGGCCTGGCGGTGCCCTGCTGTGTGTGCCTGGAAGCTGAGCGCTGAGAGGG
 TGTCTCAACTCCGAGAAGATCTGCATTGTTCCATTCTGGCTTGCTAGTCAGCCTCTGCCTCTGCATTG
 CTGGCCTGAAGTGGGATTTGTGGACAAGATATTTGAATACGACTCTCTACCCACCTTGACCCTGGGGG
 GTTAGGCCAGGACCCTGTGATTTCTCTGGATCCAACTGCTGCCCCAGCCATTTTGGTATCATCTGAGGCA
 TACACTTACCTGTCTAAGGCTCAGTCTGAAGCTGGGCTCATGTTACAGTACAAGGTGACCATGCTG
 CTGTGGCCTCTGAACCTCAGCAGTACCGACCCGGAAGAACCCTGTCTGCTTTTCTCCCTTTCACTC
 TACTGCACCGCCCTTCCCTTCTCCAGCTCGGACCCTGAGGTGAGAACACCCAAGTCAGGAACTCAGCCA
 CAAACAACAGAACTAACCCTGCAAACCTGCTCTAAACTTTCCACATCGACATCCACGACTGGGACCAGCC
 ATCTCATAAAGTGC GCGGAGAAGGAGAAAACCTTCTGTGTGAATGGGGGGAGTGCTTCCAGGTGAAGGA
 CCTGTCAAACCCGTCAAGATACTTGTGCAAGTGCCAACCTGGATTCACTGGAGCAAGATGTACTGAGAAT
 GTACCCATGAAAGTCAAACCCAAGAAAAGCGGAGGAACTCTACCAGAAGAGGGTGCTGACAATTACTG
 GCATCTGTATCGCCCTGCTGGTGGTCCGCATCATGTGTGTGGTGGCCTACTGCAAACCAAGAAGCAGCG
 GCAGAAGCTTTCATGATCGGCTTCCGCAGAGTCTTCGGTCAGAACGGAGCAACCTGGTGAACATAGCGAAT
 GGGCCTCACCACCAACCCACCAGGAGAACGTGCAGCTGGTGAATCAATACGTATCTAAAAACGTCA
 TCTCCAGTGAGCATATTGTTGAGAGAGAAGTGGAGACTTCTTTTCCACCAGTCATTACACTTCCACAGC
 CCATCACTCCACGACTGTCACCCAGACTCCTAGTCACAGCTGGAGTAATGGGCACACGGAGAGCATCATT
 TCAGAAAGCAACTCCGTAATCATGATGTCTTCGGTAGAGAACAGCAGGCACAGCAGTCCCGCCGGGGCC
 CACGAGGACGTCTTCATGGCCTGGGAGGCCCTCGTGATAACAGCTTCTCAGGCATGCCAGAGAAAACCC
 TGACTCTACAGAGACTCTCTCATAGCGAAAGACATAACCTTATAGCTGAGCTAAGGAGAAAACAGGCT
 TACAGATCCAATGCATGCAGATCCAGCTGTCAGCAACTCATCTAGACCCTCTTCCATTACCCATTTGG
 GCTTCATTCTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR216827 representing NM_001271120
 Red=Cloning site Green=Tags(s)

MEIYSPDMSEVAGGRSSPSTQLSAAPSLDGLPAAEEHIPDTHTEDESPGLLGLAVPCCVCLEAERLRG
 CLNSEKICIVPILACL VSLCLCIAGLKWVFDKIFEYDSPHTLDPGGLGQDPVISLDPTAAPAILVSSEA
 YTSPVSKAQSEAGAHVTVQGDHAAVASEPSAVPTRKNRLSAFPFFHSTAPPFPSPARTPEVRTPKSGTQP
 QTTETNLQTAPKLSTSTTTGTSHLIKAEKEKTFVNGGECFTVKDLSNPSRYLCKCQPFTGARCTEN
 VPMKVQTQEKAELYQKRVLITGICIA LLVVGIMCVVAYCKTKKQRQKLHDRLRQSLRSERSNLVNIAN
 GPHHPNPPENVQLVNQYVSKNVI SSEHIVEREVETSFSTSHYTSTAHHSTTVTQTPSHSWSNGHTESII
 SESNSVIMSSVENSRRHSSPAGGPRGRLHGLGGPRDNSFLRHARETPDSYRDSPHSERHNLIAELRRNKA
 YRSKCMQIQLSATHLRPSSITHLGFIL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

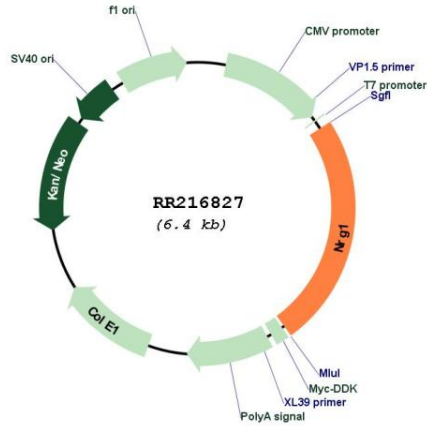


- ACCN:** NM_001271120
- ORF Size:** 1551 bp
- OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each 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_001271120.1](#), [NP_001258049.1](#)
- RefSeq Size:** 3842 bp
- RefSeq ORF:** 1554 bp
- Locus ID:** 112400
- Cytogenetics:** 16q12.3

MW: 56.1 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 RR216827