

## Product datasheet for **RR216660**

### **Nrg1 (NM\_001271122) Rat Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Nrg1 (NM\_001271122) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Nrg1  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RR216660 representing NM\_001271122  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGATCGCC

ATGTCTGAGCGCAAAGAAGGCAGAGGCAAGGGGAAGGGCAAGAAGGACCGGGATCCCCGGGGAAGC  
CCGGGCCCGCGAGGGCGACCCGAGCCAGCACTGCCTCCAGATTGAAAGAAATGAAGAGCCAGGAGTC  
AGCTGCAGGCTCCAAGCTAGTGCTCCGGTGCAAACCAGCTCCGAGTACTCCTCACTCAGATTCAAATGG  
TTCAAGAATGGGAACGAGCTGAACCGCAAAAATAAACCGAAAAACATCAAGATACAGAAGAAGCCAGGGA  
AGTCAGAGCTTCGAATTAACAAAGCATCCCTGGCTGACTCTGGAGAGTATATGTGCAAAGTGATCAGCAA  
GTTAGGAAATGACAGTGCCTCTGCCAACATCACCATTGTTGAGTCAAACGCCACATCGACATCCACGACT  
GGGACCAGCCATCTATAAAGTGCCGGAGAAGGAGAAAACTTTCTGTGTGAATGGGGCGAGTGCTTCA  
CGGTGAAGGACCTGTCAAACCCGTCAAGATACTTGTGCAAGTGCCCAAATGAGTTTACTGGTGATCGTTG  
CCAAAACCTACGTAATGGCCAGCTTCTACAAGCATCTTGGGATTGAATTTATGGAAGCGGAGGAACTCTAC  
CAGAAGAGGGTGCTGACAATTACTGGCATCTGTATCGCCCTGCTGGTGGTCGGCATCATGTGTGTGGTGG  
CCTACTGCAAAACCAAGAAGCAGCGGCAGAAGCTTCATGATCGGCTTCGGCAGAGTCTTCGGTCAGAACG  
GAGCAACCTGGTGAACATAGCGAATGGGCTCACCACCCAAACCCACCGCCAGAGAACGTGCAGCTGGTG  
AATCAATACGTATCTAAAACGTCATCTCCAGTGAGCATAATTGTTGAGAGAGAAGTGAGACTTCCTTTT  
CCACCAGTCATTACACTCCACAGCCCATCACTCCACGACTGTCACCCAGACTCCTAGTCACAGCTGGAG  
TAATGGGCACACGGAGAGCATATTTAGAAAAGCAACTCCGTAATCATGATGTCTTCGGTAGAGAACAGC  
AGGCACAGCAGTCCCCGGGGGCCACGAGGACGCTTCATGGCCTGGGAGGCCCTCGTGATAACAGCT  
TCCTCAGGCATGCCAGAGAAACCCCTGACTCCTACAGAGACTCTCCTCATAGCGAAAGACATAACCTTAT  
AGCTGAGCTAAGGAGAAACAAGGCTTACAGATCCAAATGCATGCAGATCCAGCTGTCAGCAACTCATCTT  
AGACCTCTTCCATTACCCATTTGGGCTTCATTCTC

ACGCGTACGCGGCCGCTCGAGCAGAAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RR216660 representing NM\_001271122  
Red=Cloning site Green=Tags(s)

MSEKKEGRGKGGKGGKDRGSRGKPGPAEGDPSPALPPRLKEMKSQESAAGSKLVLRCESSSEYSSLRFKW  
 FKNGNELNRKNPENIKIQKPKGSELRINKASLADSGEYMCKVISKLGNDASANITIVESNATSTSTT  
 GTSHLIKAEKEKTFVNGGECFTVKDLSNPSRYLCKCPNEFTGDRCQNYVMASFYKHLGIEFMAEELY  
 QKRVLITIGICIALLVGIMCVVAYCKTKKQRQLHDLRQSLRSERSNLVNIANGPHHPNPPENVQLV  
 NQYVSKNVISSEHIVEREVETSFSTSHYTSTAHSTTVTQTPSHSWSNGHTESIISESNSVIMSSVENS  
 RHSSPAGGPRGLHGLGGPRDNSFLRHARETPDSYRDSPHSERHNLIAELRRNKAYRSKCMQIQLSATHL  
 RPSSITHLGFIL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

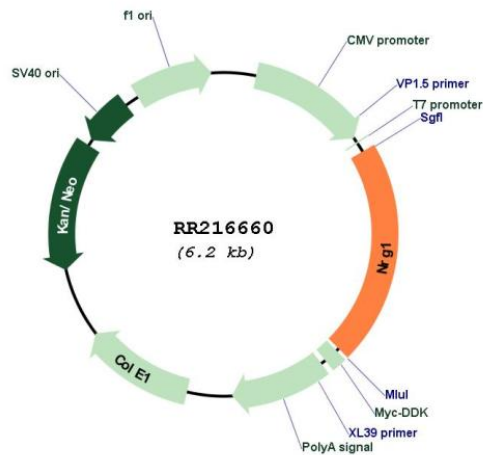
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



<b>ACCN:</b>	NM_001271122
<b>ORF Size:</b>	1296 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001271122.1</a> , <a href="#">NP_001258051.1</a>
<b>RefSeq Size:</b>	3310 bp
<b>RefSeq ORF:</b>	1299 bp
<b>Locus ID:</b>	112400
<b>Cytogenetics:</b>	16q12.3
<b>MW:</b>	48.1 kDa
<b>Gene Summary:</b>	ligand for Erbb3 and Erbb4 receptors; gene produces many different alternative splicing isoforms; involved in neural and organ development [RGD, Feb 2006]