

## Product datasheet for **RR217037**

### **Nrg1 (NM\_001271126) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Nrg1 (NM_001271126) 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:

>RR217037 representing NM\_001271126  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGTCTGAGCGCAAAGAAGGCAGAGGCAAGGGGAAGGCAAGAAGAAGGACCGGGGATCCCGCGGAAGC  
CCGGGCCCGAGGGCGACCCGAGCCAGCACTGCCTCCAGATTGAAAGAAATGAAGAGCCAGGAGTC  
AGCTGCAGGCTCCAAGCTAGTGCTCCGGTGCGAAACCAGCTCCGAGTACTCCTCACTCAGATTCAAATGG  
TTCAAGAATGGGAACGAGCTGAACCGAAAAATAAACAGAAAACATCAAGATACAGAAGAAGCCAGGGA  
AGTCAGAGCTTGAATTAACAAAGCATCCCTGGCTGACTCTGGAGAGTATATGTGCAAAGTGATCAGCAA  
GTTAGGAAATGACAGTGCCTCTGCCAACATCACCATTGTTGAGTCAAACGAGTTCATCACTGGCATGCCA  
GCCTCGACTGAGACAGCCTATGTGCTCAGAGTCTCCATTAGAATCTCAGTTTCAACAGAAGGCGCAA  
ACACTTCTTCATCCACATCGACATCCACGACTGGGACCAGCCATCTCATAAAGTGCAGGAGGAGAA  
AACTTTCTGTGTGAATGGGGCGAGTGCTTCACGGTGAAGGACCTGTCAAACCCGTAAGATACTTGTGC  
AAGTGCCCAAATGAGTTTACTGGTGATCGTTGCCAAAACCTACGTAATGGCCAGCTTCTACAAGCATCTTG  
GGATTGAATTTATGGAAGCGGAGGAACTCTACCAGAAGAGGGTGTGACAATTACTGGCATCTGTATCGC  
CCTGCTGGTGGTCGGCATCATGTGTGGTGGCTACTGCAAAACCAAGAAGCAGCGGCAGAAAGCTTCAT  
GATCGGCTTCGGCAGAGTCTTCGGTCAGAACGGAGCAACCTGGTGAACATAGCGAATGGGCTCACCACC  
CAAACCCACCGCCAGAGAACGTGCAGCTGGTGAATCAATACGTATCTAAAAACGTATCTCCAGTGAGCA  
TATTGTTGAGAGAGAAGTGGAGACTTCTTTCCACCAGTCATTACACTCCACAGCCCATCACTCCACG  
ACTGTCAACCCAGACTCCTAGTCACAGCTGGAGTAATGGGCACACGGAGAGCATCATTTAGAAAGCAACT  
CCGTAATCATGATGCTTCGGTAGAGAACAGCAGGCACAGCAGTCCCGCCGGGGGCCACGAGGACGTCT  
TCATGGCCTGGGAGGCCCTCGTGATAACAGCTTCTCAGGCATGCCAGAGAAACCCCTGACTCCTACAGA  
GACTCTCCTCATAGCGAAAGGTATGTATCAGCCATGACCACCCCGGCTCGTATGTCACCTGTAGATTTCC  
ACACGCCAAGCTCCCCTAAATCGCCCCCTTCGGAATGTCTCCACCCGTGTCCAGCATGACGGTGTCAAT  
GCCCTCTGTGGCAGTCAGCCCCTTTGTGGAAGAAGAGAGGCTCTGCTGCTTGTGACGCCACCAAGGCTA  
CGGAGAGAAGAAATATGATCATCACCCCCAGCAACTCAACTCCTTTCATCACAACCCTGCACATCAGAGTA  
CCAGCCTCCCCCTAGCCCACTGAGGATAGTGGAGGATGAGGAGTACGAGACGCCAGGAGTATGAGTC  
AGTTCAAGAGCCCGTTAAGAAAGTACCAATAGCCGGCGGGCCAAAAGAACCAAGCCCAATGGCCACATT  
GCCAATAGGTTGAAATGGACAGCAACACAAGTCTGTGAGCAGTAACTCAGAAAGTGAGACAGAAGACG  
AAAGAGTAGGTGAAGACACACCATTCTGGGCATACAGAACCCCTGGCAGCCAGCCTTGAGGTGGCCCC  
TGCCCTCCGTCTGGCTGAGAGCAGGACTAACCCAGCAGGCCGCTTCTCCACACAGGAGGAATTACAGGCC  
AGGCTGTCTAGTGAATCGTAACCAAGACCCTATTGCTGTA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR217037 representing NM\_001271126  
Red=Cloning site Green=Tags(s)

MSEKKEGRGKGGKGGKDRGSRGKPGPAEGDPSPALPPRLKEMKSQESAAGSKLVLCETSSEYSSLRFKW  
 FKNGNELNRKNPENIKIQKPGKSELRINKASLADSGEYMCKVISKLGNDASANITIVESNEFITGMP  
 ASTETAYVSSSPIRISVSTEGANTSSSTSTSTGTSHLIKCAEKETFCVNGGECFTVKDLSNPSRYLC  
 KCPNEFTGDRCQNYVMASFYKHLGIEFMEAEELYQKRVLTITGICIALLVGIMCVVAYCKTKKQKQLH  
 DRLRQSLRSERSNLVNIANGPHHPNPPENVQLVNQYVSKNVISSEHIVEREVETSFSTSHYTSTAHST  
 TVTQTPSHSWSNGHTESIISSENSVIMSSVENSRRHSSPAGGPRGRLHGLGGPRDNSFLRHARETPDSYR  
 DSPHSERYVSAMTTPARMSPVDFHTPSSPKSPPSEMSPPVSSMTVSMPSVAVSPFVEERLLLVTPPRL  
 REKKYDHPQQLNSFHHPAHQSTSLPPSPLRIVEDEEYETTQEYESVQEPVKVNSRRAKRTKPNNGHI  
 ANRLEMSNTSSVSSNSESETEDERVGEDTPFLGIQNPLAASLEVAPAFRLAESRTNPAGRFSTQEELQA  
 RLSSVIANQDPIAV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001271126

**ORF Size:** 1932 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\\_001271126.1](#), [NP\\_001258055.1](#)

**RefSeq Size:** 3270 bp

**RefSeq ORF:** 1935 bp

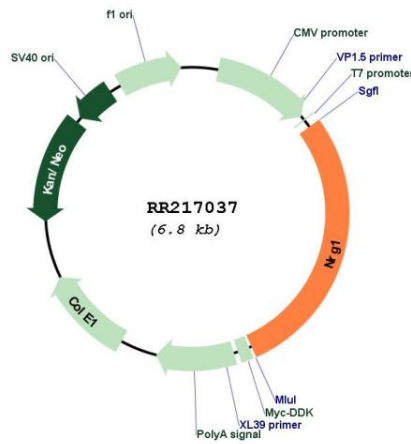
**Locus ID:** 112400

**Cytogenetics:** 16q12.3

**MW:** 71.1 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 RR217037