

Product datasheet for **RR217029**

Nrg1 (NM_001271129) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nrg1 (NM_001271129) 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:

>RR217029 representing NM_001271129
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGTCTGAGCGCAAAGAAGGCAGAGGCAAGGGGAAGGCAAGAAGAAGGACCGGGGATCCCGCGGAAGC
CCGGGCCCGAGGGCGACCCGAGCCAGCACTGCCTCCAGATTGAAAGAAATGAAGAGCCAGGAGTC
AGCTGCAGGCTCCAAGCTAGTGCTCCGGTGCGAAACCAGCTCCGAGTACTCCTCACTCAGATTCAAATGG
TTCAAGAATGGGAACGAGCTGAACCGAAAAATAAACAGAAAACATCAAGATACAGAAGAAGCCAGGGA
AGTCAGAGCTTGAATTAACAAAGCATCCCTGGCTGACTCTGGAGAGTATATGTGCAAAGTGATCAGCAA
GTTAGGAAATGACAGTGCCTCTGCCAACATCACCATTGTTGAGTCAAACGAGTTCATCACTGGCATGCCA
GCCTCGACTGAGACAGCCTATGTGTCCTCAGAGTCTCCATTAGAATCTCAGTTTCAACAGAAGGCGCAA
ACACTTCTTCATCCACATCGACATCCACGACTGGGACCAGCCATCTCATAAAGTGC GCGGAGAAGGAGAA
AACTTTCTGTGTGAATGGGGCGAGTGCTTCACGGTGAAGGACCTGTCAAACCCGTCAAGATACTTGTGC
AAGTGCCAACCTGGATCACTGGAGCAAGATGTACTGAGAATGTACCCATGAAAGTCCAAACCCAAGAAA
AAGCGGAGGAAGTCTACCAGAAGAGGGTGTGACAATTACTGGCATCTGTATCGCCCTGCTGGTGGTCCG
CATCATGTGTGGTGGCTACTGCAAAACCAAGAAGCAGCGGCAGAAGCTTCATGATCGGCTTCGGCAG
AGTCTTCGGTCAGAACGGAGCAACCTGGTGAACATAGCGAATGGGCCCTCACCCCAAACCCACCGCCAG
AGAACGTGCAGCTGGTGAATCAATACGTATCTAAAACGTCACTCCAGTGAGCATATTGTTGAGAGAGA
AGTGGAGACTTCCCTTTCCACAGTCATTACACTTCCACAGCCCATCACTCCACGACTGTACCCAGACT
CCTAGTCACAGCTGGAGTAATGGGCACACGGAGAGCATCATTTTCAGAAAGCAACTCCGTAATCATGATGT
CTTCGGTAGAGAACAGCAGGCACAGCAGTCCCGCCGGGGCCACGAGGACGTCTTCATGGCCTGGGAGG
CCCTCGTGATAACAGCTTCCTCAGGCATGCCAGAGAAACCCCTGACTCCTACAGAGACTCTCCTCATAGC
GAAAGGTATGTATCAGCCATGACCACCCCGCTCGTATGTACCTGTAGATTTCCACACGCCAAGTCCC
CTAAATCGCCCCCTTCGGAAATGTCTCCACCCGTGTCCAGCATGACGGTGTCAATGCCCTCTGTGGCAGT
CAGCCCCTTTGTGGAAGAAGAGAGGCCTCTGCTGCTTGTGACGCCACCAAGGCTACGGGAGAAGAAATAT
GATCATACCCCCAGCAACTCAACTCCTTTTCATCACAACCCTGCACATCAGAGTACCAGCCTCCCCCTA
GCCACTGAGGATAGTGGAGGATGAGGAGTACGAGACGCCAGGAGTATGAGTCAGTTC AAGAGCCCGT
TAAGAAAGTACCAATAGCCGGCGGGCCAAAAGAACCAAGCCCAATGGCCACATTGCCAATAGGTTGGAA
ATGGACAGCAACACAAGTTCTGTGAGCAGTAACTCAGAAAGTGAGACAGAAGACGAAAGAGTAGGTGAAG
ACACACCATTCCTGGGCATACAGAACCCCTGGCAGCCAGCCTTGAGGTGGCCCCCTGCCTTCCGTCTGGC
TGAGAGCAGGACTAACCCAGCAGGCCGCTTCTCCACACAGGAGGAATTACAGGCCAGGCTGTCTAGTGTA
ATCGCTAACCAAGACCCTATTGCTGTA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR217029 representing NM_001271129
Red=Cloning site Green=Tags(s)

MSEKKEGRGKGGKGGKDRGSRGKPGPAEGDPSPALPPRLKEMKSQESAAGSKLVLCETSSEYSSLRFKW
 FKNGNELNRKNPENIKIQKPGKSELRINKASLADSGEYMCKVISKLGNDASANITIVESNEFITGMP
 ASTETAYVSSSPIRISVSTEGANTSSSTSTSTGTSHLIKCAEKETFCVNGGECFTVKDLSNPSRYLC
 KCQPGFTGARCTENVPMKVQTQEKAEEELYQKRVLITGICIAALLVVGIMCVVAYCKTKKQRQLHDRLRQ
 SLRSERSNLVNIANGPHHPNPPENVQLVNQYVSKNVISSEHIVEREVETSFSTSHYTSTAHSTTVTQT
 PSHSWSNGHTESIISSENSVIMMSSVENSRRHSSPAGGPRGRLHGLGPRDNSFLRHARETPDSYRDSPHS
 ERYVSAMTTPARMSPVDFHTPSSPKSPPSEMSPPVSSMTVSMPSVAVSPFVEEERPLLLVTPRLREKKY
 DHHPQQLNSFHHPAHQSTSLPPSPLRIVEDEEYETTQEYESVQEPVKVNTSRRAKRTKPNGHIANRLE
 MDSNTSSVSSNSESETEDERVGEDTPFLGIQNPLAASLEVAPAFRLAESRTNPAGRFSTQEELQARLSSV
 IANQDPIAV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_001271129

ORF Size: 1917 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_001271129.1](#), [NP_001258058.1](#)

RefSeq Size: 3255 bp

RefSeq ORF: 1920 bp

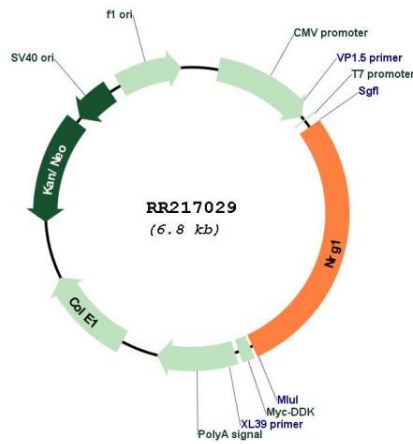
Locus ID: 112400

Cytogenetics: 16q12.3

MW: 70.3 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 RR217029