

Product datasheet for **MR218649**

Nrg4 (NM_032002) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Nrg4 (NM_032002) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Nrg4
Synonyms: AI552600
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR218649 representing NM_032002
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCAACAGATCAGCAGCAGCCCTGTGGTCCCAGGCACAGGTCATTTTGCCTCAATGGGGGATTGTT
ATGTGATCCCTACTATCCCCAGCCATTCTGTAGGTGCATTGAAAATTACACCGGAGCAGCTGCGAAGA
GGTTTTTCTCCAAGCTCCAGCATCCCAAGCGAAAGTAATCTGTCGGCAGCTTTCGTGGTCTGGCGGTC
CTCCTCACTTTACCATCGGGCGCTCTGCTTCTGTGCAGGAAGGCCACCTTCAGAGGGCCAGTTCAG
TCCAGTGTGAGATCAGCCTGGTAGAGACAAACAATACCAGAACCCGTACAGCCACAGAGAACAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR218649 representing NM_032002
Red=Cloning site Green=Tags(s)
MPTDHEQPCGPRHRSFCLNGGICYVIPTIPSPFCRCIENYTGARCEEVFLPSSSIPSENLSSAAFVVLAV
LLTLTIAALCFLCRKGLQRASSVQCEISLVETNNTRTRHSHREH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

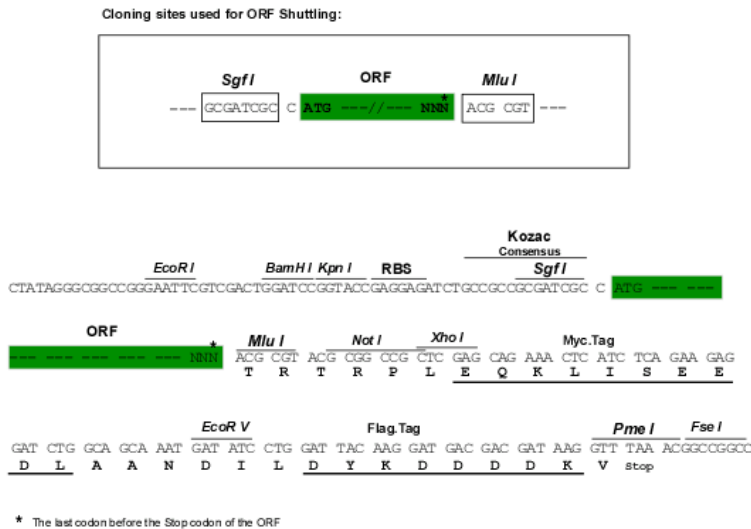
Chromatograms: https://cdn.origene.com/chromatograms/ja2236_f01.zip

Restriction Sites: SgfI-MluI



[View online »](#)

Cloning Scheme:



ACCN: NM_032002

ORF Size: 345 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_032002.2](#), [NP_114391.1](#)

RefSeq Size: 1952 bp

RefSeq ORF: 348 bp

Locus ID: 83961

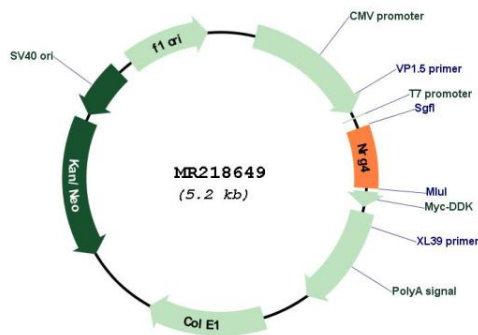
UniProt ID: [Q9WTX4](#)

Cytogenetics: 9 B

MW: 13.2 kDa

Gene Summary: Low affinity ligand for the ERBB4 tyrosine kinase receptor. Concomitantly recruits ERBB1 and ERBB2 coreceptors, resulting in ligand-stimulated tyrosine phosphorylation and activation of the ERBB receptors. Does not bind to the ERBB1, ERBB2 and ERBB3 receptors. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR218649