

## Product datasheet for **MG218649**

### **Nrg4 (NM\_032002) Mouse Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Nrg4 (NM\_032002) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Nrg4  
**Synonyms:** AI552600  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG218649 representing NM\_032002  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCCAACAGATCAGCAGCAGCCCTGTGGTCCCAGGCACAGGTCATTTTGCCTCAATGGGGGATTGTT  
ATGTGATCCCTACTATCCCCAGCCATTCTGTAGGTGCATTGAAAATTACACCGGAGCAGCTGCGAAGA  
GGTTTTTCTCCAAGCTCCAGCATCCAAGCGAAAGTAATCTGTCGGCAGCTTTCGTGGTCTGGCGGTC  
CTCCTCACTTTACCATCGGGCGCTCTGCTTCTGTGCAGGAAGGCCACCTTCAGAGGGCCAGTTCAG  
TCCAGTGTGAGATCAGCCTGGTAGAGACAAACAATACCAGAACCCTCACAGCCACAGAGAACAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG218649 representing NM\_032002  
Red=Cloning site Green=Tags(s)  
MPTDHEQPCGPRHRSFCLNGGICYVIPTIPSPFCRCIENYTGARCEEVFLPSSSIPSESNLAAAFVVLAV  
LLTLTIAALCFLCRKGHLQRASSVQCEISLVETNNTTRTRHSHREH

**TRTRPLE** - GFP Tag - V

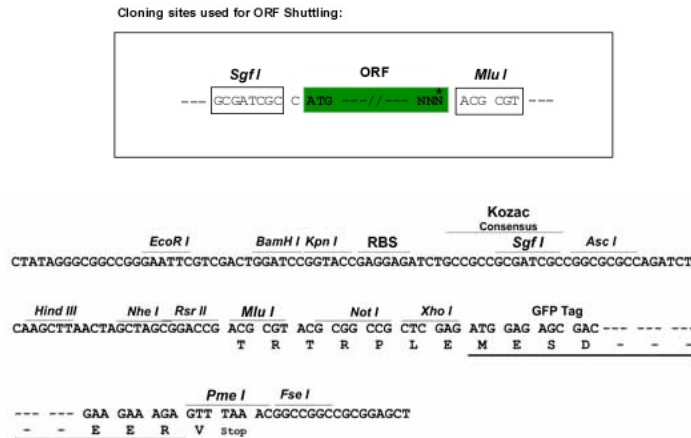
**Chromatograms:** [https://cdn.origene.com/chromatograms/ja2272\\_a03.zip](https://cdn.origene.com/chromatograms/ja2272_a03.zip)

**Restriction Sites:** Sgfl-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](mailto: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

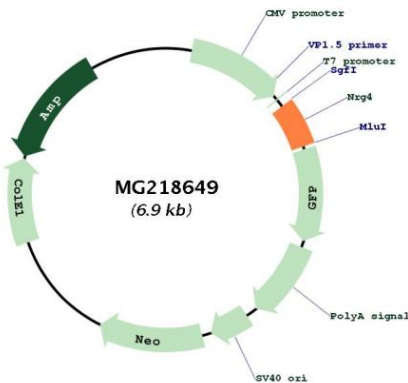
**Locus ID:** 83961

**UniProt ID:** [Q9WTX4](#)

**Cytogenetics:** 9 B

**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 MG218649