

## Product datasheet for **MG221718**

### **Nrg3 (NM\_008734) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Nrg3 (NM_008734) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Nrg3
Synonyms:	ska
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG221718 representing NM\_008734  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAGTGAAGGGGCGCCGGTGCCTCGCCACCTGGTGCCGCTTCGGCAGCCGCCCTCAGCCGAGGAGG  
 GCACCGCGCGGCTGCGGCGGCGGCGGCGGGCGCCGGACGGCGCGGAGAAGGGGCGGCCGA  
 ACCCCCCCGGGAGTTACGCTGTAGCGACTGCATCGTGTGGAACCGGCAGCAGACGTGTTGTGCGTGTTG  
 CCTCTGTTTCATCGGCTTCATCGGCTGGGGCTCAGCCTCATGCTGCTTAAATGGATCGTGGTAGGCTCCG  
 TCAAGGAGTACGTGCCACGGACCTGGTGGACTCCAAGGGAATGGGCCAGGACCCCTTCTCCTCTCAA  
 GCCCAGCTCTTTCCCAAGGCTATGAAACCCACCAACAACCACTTCTACCACGTCCTCCCGCCACCCCC  
 TCTGCCGCGGCGCCGCTTCTCCAGGACGCCTAACCGGATTAGCACCCGCTTGACCACCATCACACGGG  
 CACCCACCCGCTTCCCTGGGACCGGGTCCCATCCGGGCTAGCCCGCGCTTACCACAGCACGGAACAC  
 TGCTGCCCTCCGACGGTCTGTCCACCACGGCCCTTTCTTTCAGTAGCAGCAGCCCGGCTCCCGACCC  
 CCGATGCCAGGAGCCCCAGTACGACGGCGATGCCTTCTTGCCCACTGCGGCGTATGCTACCTCCTCCT  
 ACCTCCACGATCCACTCCCTCCTGGACCTGTACCCCTTTCAGGATGCTGCTGCCGCTCTTCTCCTCCTC  
 ACCCTTCTCCACCTCCTCCACTACCACCACCCAGAACTAGCACCAGCCCAAATTTTACTACTACAACA  
 TACTCCACTGAACGATCTGAGCACTTCAAACCTGTGCGAGACAAGGACCTGGCGTATTGTCTCAATGATG  
 GTGAATGCTTTGTGATTGAGACCTGACAGGATCCCATAGCACTGTGCGTGCAAGGAAGGCTACCAAGG  
 AGTCCGTTGTGATCAATTTCTGCCGAAAACAGACTCCATCTTATCGGATCCAAACCACTTGGGGATTGAA  
 TTCATGGAGAGTGAAGACGTTTATCAAAGGCAGGTGCTGTCAATTCATGTATCATCTTTGGAATTGCA  
 TCGTGGCATGTTCTGTGCAGATTCTACTTCAAAGCAAGAAACAAGCTAAACAATTCAGGAGCACCT  
 GAAAGAGTCACAGAATGGGAAGAACTACAGCCTCAAGGCATCCAGCACAATGTCAAAGTCTGAGAGCTTG  
 ATGAAGAGCCATGTCCATCTACAAAATTATTCAAAGGCGGATAGGCATCCTGTGACTGCGCTGGAGAAAA  
 TAATGGAGTCAAGTTTTTTCAGCTCCCGAGTCGTTCCAGAAAGTCACTTCTCCTGACCGAGGAAGCCAGCC  
 TATCAAGCACCACAGCCAGGACAAAGGAGTGGGATGTTGCATAGGAATACTTTTCAAGGGCACCACCC  
 TCACCCGAAAGTCGACTGGGTGGTATTGTAGGACCAGCATATCAACAACCTGAAGAATCAAGAATCCAG  
 ACCAGGATACGATACCTTGCCAAGGGATAGAGGTGAGGAAAGTATATCCACCTGCCTATACAGCTGTG  
 GTGTGTTGAAAGACCCCTGGACTTAAAGTATGTGTCCAATGGCTTAAGAACCAACAAAATGCATCAATA  
 AATATGCAACTGCCTTCAAGAGAGACAAACCCCTATTTTAAATAGCTTGGATCAAAGGACCTGGTGGTT  
 ATTTATCCCAAGGGCAATTCTGTGCCATCATCCCGTCGATGGGTCTAGAAGAAACCTGCATGCAAAAT  
 GCCAGGGATTTCTGACGTCAAAGCATTAAATGGTGCAAAAACCTCTACTCCGCTGACATTGTCAACGCG  
 AGTATGCCAGTCAGTATTGCTTCTAGAAGAACAACAGGAAGTGAATAATTACTAGAGACTGTGCAGG  
 AACAGATCCGATTCTGACTGATGCCAGACGGTCAGAAGACTTCGAACTGGCCAGCATGGAAGTGAAGG  
 CAGTGCGAGCGAAAACACAGCCTTTCTCCCTGAGTCCCACGGCCAAATCAGAACGAGAGGCACAATTT  
 GTCTTAAGAAATGAAATACAAAGAGACTCTGTGCTAACCAAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG221718 representing NM\_008734  
 Red=Cloning site Green=Tags(s)

MSEGAAGASPPGAASAAAASAEEGTAAAAAAAAGGGPDGGGEGAAEPRELRCSDCIVWNRQQTWLCVV  
 PLFIGFIGLGLSLMLLKWIIVVGSVKEYVPTDLVDSKGMGQDPFFLSKPSSFPKAMETTTTTSTTSPATP  
 SAGGAASSRTPNRISTRLLTITRAPTRFPGHRVPIRASPRSTTARNTAAPPTVLSTTAPFFSSSTPGSRP  
 PMPGAPSTQAMPSPWPTAAYATSSYLHDSTPSWTLSPFQDAAAASSSPSSTSTSTTTTPTSTSPKFHTTT  
 YSTERSEHFKPCRDKDLAYCLNDGECFVIETLTGSHKHCRCKEGYQGVRCDFLPKTDSILSDPNHLGIE  
 FMESEDVYQRQVLSISCIIFGIVIVGMFCAAFYFKSKKQAKQIQEHLKESQNGKNYSLKASSTMSKSESL  
 MKSHVHLQNYSKADRHPTALEKIMESSF SAPQSFPEVTS PDRGSQPIKHHSPGQRSGMLHRNTFRRAPP  
 SPRSRLGGIVGPAYQQLEESRIPDQDTIPCQGI EVRKTISHLP IQLWCVERPLDLKYVSNGLRTQQNASI  
 NMQLPSRETNPFNSLDQKDLVGYLSPRANSVPIIPSMGLEETCMQMPGISDVKSIKWCKNSYSADIVNA  
 SMPVSDCLLEEQQEVKILLETVQE QIRILTDARSEDFELASMETDSASENTAFLPLSPTAKSERAQF  
 VLRNEIQRDSVLTK

TRTRPLE - GFP Tag - V

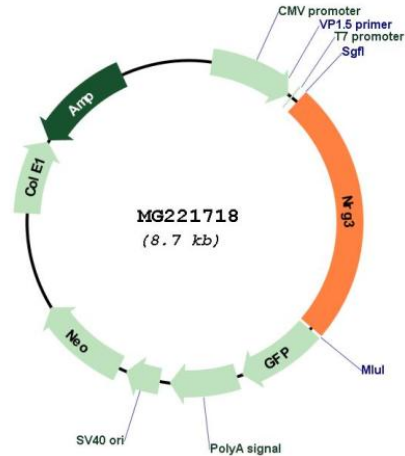
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM\_008734

ORF Size: 2139 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\\_008734.3](#), [NP\\_032760.1](#)

RefSeq Size: 4012 bp

RefSeq ORF: 2142 bp

Locus ID: 18183

UniProt ID: [O35181](#)

Cytogenetics: 14 B

Gene Summary: Direct ligand for the ERBB4 tyrosine kinase receptor. Binding results in ligand-stimulated tyrosine phosphorylation and activation of the receptor. Does not bind to the EGF receptor, ERBB2 or ERBB3 receptors.[UniProtKB/Swiss-Prot Function]