

Product datasheet for **MG218791**

Net1 (NM_019671) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Net1 (NM_019671) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Net1
Synonyms:	mNET1; Net1a
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG218791 representing NM_019671
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAGCCAGAGCCGGCTCAGAAGCAGCCCCGACCTCGGAGGAGAAGCCGAGGGTCTCAATGCTCA
 GCGAGGAACCTGCCGCGGGCTTCGGCCGACACACCCGGCCGCGCGCAACGAGAGATGCTCCCTTCG
 GAGAGGCAGCTCCTTACATTTTAAACCCTGGCCACACTGGGACTTCACTTTGAAAAGAAAACGAAGA
 GAGAAAGATGATGATGCTGTAAGCCTTAGCAGCCTTGATTTGAAGGAGCCAAGCAATAAGAGAGTTCGGC
 CTCTAGCTCGGGTACATCTTTGGCAAACCTAATCTCTCCCGTAAGAAATGGAGCAGTCAGGCGCTTCGG
 TCAGACCATACAGTCGTTTACCCTTCGTGGTGACCACAGATCCCCAGCCTCTGCCAGAAGTCATTACAGC
 AGGTCCACCGTCCCACACCCACCAAGAGAAGAAGCAGTGCATATGGTCGGAAATGCTAGACATCAATA
 TGAAGGAGTCCTTGACCACTCGAGAGATCAAACGTGAGGAGCCATATATGAATTGTCCCGAGGGGAACA
 GGACTTGATTGAGGATCTCAAGCTCGCTAGAAAGCCCTACCATGACCCCATGTTAAAGCTGTCTATCATG
 TCAGAAGAGGAACTCACGCACATATTTGGAGACTTGGATGCTTATATACCTCTGCACGAAGATCTGTTAG
 CAAGAATTGGAGAAGCAACCAAGCCTGATGGGACTGTGGAGCAGATCGGTACATTCTCGTGAAGTGGTT
 ACCAGGCCTGAATGCCTACAGAGGCTACTGCAGTAACCAGCTGGCGGCCAAGGCTCTTCTGGATCAGAAG
 AAACAAGACCCAAGAGTCCAAGACTTCTCCAGCGCTGTCTGGAGTCTCCTTTCAGTCGAAAACCTAGATC
 TTTGGAGTTTCTAGATATCCCTCGAAGTCGCCTCGTCAAGTACCCTTACTGTTAAAAGAAATCCTTAG
 ACACACTCCCAAAGACCACCGTATGTTTCAAGTCTCTAGAAGAGGCAATATTGATAATAACAAGGAGTCTT
 TCTGATATCAACTGAAGAAAGGCGAATCTGAGTGTGAGTATTACATCAACAAGCTGGAGTACCTGGACG
 AGAAGCAGAAGGACCCCTAGGATCGAAGCGAGCAAAGTGTGCTGTGCCATGGGAGCTGAAGAATAAAG
 CGGCCATAAACTGTACATTTTCCCTATTTCAAGACATCTTGGTTTTGACTCGGCCTGTACCCGAAATGAG
 CGCCACTTGTACCAGTTTACCAGCAGCCATCCAGTCCAGGAGCTGGTGTGGAAGACCTGCAGGACG
 GGGATGTGCGCATGGTGGCTCCTTCCGAGGGCCTTCGCAACTCAGACAAAGCTAAAAATATCTTTAG
 GGTCCGCTTCCAAGACCTTCTCCAGGCCACTCCACACACTGCAAGCCAATGATGTGTTCCATAAGCAG
 CAGTGGTCAACTGTATTCGCGCGGCCATTGCCCTTCCAGCGGGCCGCGAGCCCTTAGAGCTTCAGG
 GCTTGCCAGACCTCCACGAAGAGTGTGAAGAGAACAACCTTCTGCTGGGAACCTCAGAGCCAGCGACG
 GTCATGCGTGGTCTCTGGTGTGATGAGATAGACGAGGAAAGCGCCCTGGATTGTGGCTCCAGTGTACAG
 ACAGTGAAGACACCAGGAACATGAAGGCACAGCGGCCTCAGCCTGGCTTACGAAGCAAGGGACAAAG
 CACAGTCAGGTGGCAAAAAGAAAGAGACTTTGGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG218791 representing NM_019671
 Red=Cloning site Green=Tags(s)

MEPEPAAQKQPRRRRSRRVSMLEPEAAGLPADTPGPAANERCSLRRGSSFTFLTPGPHWDFTLKRKR
 EKDDDAVSLSSLDLKEPSNKRVRPLARVTSANLISPVRNGAVRRFGQTIQSFTLRGDHRSPASQKSF
 RSTVPTPKRRSSALWSEMLDINMKESLTTREIKRQEIYELSRGEQDLIEDLKLARKAYHDPMLKLSIM
 SEEELTHIFGDLDAYIPLHEDLLARIGEATKPDGTVEQIGHILVNWLPGLNAYRGYCSNQLAAKALLDQK
 KQDPRVQDFLQRCLESPFSRKLDELWSFLDIPRSRLVKYPLLLKEILRHTPKDHRDVLLEEAII IQGVL
 SDINLKKGESECQYYINKLEYLDEKQKDPRIEASKVLLCHGELKNKSGHLYIFLFDILVLTRPVTRNE
 RHLVQVYRQPIPVQELVLEDLQDGDVRMGGSFRAFGNSDKAKNIFRVRFQDPSPGHSHTLQANDVFHKQ
 QWFNCIRAAIAPFQRAASPLELQGLPDLHEECEENNPAGNLRAQRRSCVVPVMQIDEESALDCGSSVQ
 TVEDTRNMKAQRQPGLRRARDKAQSGGKKKETLV

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_019671

ORF Size: 1785 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_019671.3](#), [NP_062645.2](#)

RefSeq Size: 3465 bp

RefSeq ORF: 1788 bp

Locus ID: 56349

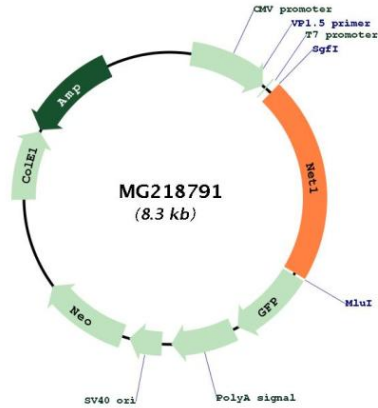
UniProt ID: [Q9Z206](#)

Cytogenetics: 13 A1

Gene Summary:

Acts as guanine nucleotide exchange factor (GEF) for RhoA GTPase. May be involved in activation of the SAPK/JNK pathway. Stimulates genotoxic stress-induced RHOB activity in breast cancer cells leading to their cell death.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG218791