

Product datasheet for **MR208638**

Net1 (NM_001047159) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Net1 (NM_001047159) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Net1
Synonyms:	mNET1; Net1a
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR208638 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTGGCGCATGATGAGATCGGAGGTCTCTGCCATTAAAAGGACGATCCGAGTCTTAGATGTTAATA
 ACCAGCCCTTCGGGAGCAGGAGGAGCCAAAGCAATAAGAGAGTTCGGCCTCTAGCTCGGGTACATCTTT
 GGCAAACCTAATCTCTCCGTAAGAAATGGAGCAGTCAGGCGCTTCGGTACAGCCATACAGTCGTTTACC
 CTTCTGGTGACCACAGATCCCCAGCCTCTGCCAGAAGTCATTAGCAGGTCCACCGTCCCCACACCCA
 CCAAGAGAAGAAGCAGTGCCTATGGTCGGAATGCTAGACATCAATATGAAGGAGTCTTGACCACTCG
 AGAGATCAAACGTCAGGAGGCCATATGAATTGTCGGAGGGAAACAGGACTTGATTGAGGATCTCAAG
 CTCGCTAGAAAGGCTACCATGACCCATGTTAAAGCTGTCTATCATGTCAGAAGAGGAACACGCACA
 TATTTGGAGACTGGATGCTTATACCTCTGCACGAAGATCTGTTAGCAAGAATTGGAGAAGCAACCAA
 GCCTGATGGGACTGTGGAGCAGATCGGTACATCTCTGTAAGTGTACCAGGCCTGAATGCCTACAGA
 GGCTACTGCAGTAACAGCTGGCGGCCAAGGCTCTCTGGATCAGAAGAAACAAGACCCAAGAGTCCAAG
 ACTTCTCCAGCGCTGTCTGGAGTCTCCTTTCAGTCGAAAACATAGATCTTTGGAGTTTCTAGATATCCC
 TCGAAGTCGCCTCGTCAAGTACCCCTACTGTTAAAAGAAATCCTTAGACACACTCCCAAAGACCACCGT
 GATGTTACAGTCTTAGAAGAGGCAATATTGATAATACAAGGAGTCTTTCTGATATCAACTTGAAGAAA
 GCGAATCTGAGTGCAGTATTACATCAACAAGCTGGAGTACCTGGACGAGAAGCAGAAGGACCCTAGGAT
 CGAAGCGAGCAAAGTGTCTGTGCCATGGGGAGCTGAAGAATAAAAGCGGCCATAAACTGTACATTTTC
 CTATTTCAAGACATCTTGGTTTTGACTCGGCCTGTACCCGAAATGAGCGCCACTGTACCAGGTTTACC
 GGCAGCCATCCAGTCCAGGAGCTGGTCTGGAAGACCTGCAGGACGGGGATGTGCGCAATGGGTGGCTC
 CTTCGAGGGGCCCTTCGGCAACTCAGACAAAGCTAAAAATATCTTTAGGGTCCGCTTCCAAGACCTTCT
 CCAGGCCACTCCACACACTGCAAGCCAATGATGTGTTCCATAAGCAGCAGTGGTTCAACTGTATTTCGCG
 CGGCCATTGCCCTTCCAGCGGCCGCCAGCCCTTAGAGCTTACAGGGCTTCCAGACCTCCACGAAGA
 GTGTGAAGAGAACAACCTTCTGCTGGGAACCTCAGAGCCAGCGACGGTATGCGTGGTTCTGGTGTG
 ATGCAGATAGACGAGGAAAGCGCCCTGGATTGTGGCTCCAGTGTACAGACAGTGAAGACACCAGGAACA
 TGAAGGCACAGCGCCTCAGCCTGGCTTACGAAGAGCAAGGGACAAGCACAGTCAAGTGGCAAAAAGAA
 AGAGACTTTGGT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208638 protein sequence
 Red=Cloning site Green=Tags(s)

MVAHDEIGLLPIKRTIRVLDVNNQPFREQEEPSNKRVRPLARVTSANLISPVRNGAVRRFGQTIQSFT
 LRGDHRSPASAQKFSRSTVPTPKRRSSALWSEMLDINMKESLTTREIKRQEAIYELSRGEQDLIEDLK
 LARKAYHDPMLKLSIMSEELTHIFGDLDAYIPLHEDLLARIGEATKPDGTVEQIGHILVNWLPGLNAYR
 GYCSNQLAAKALLDQKKQDPRVQDFLQRCLESPFSRKLDSLWFLDIPRSRLVKYPLLLKEILRHTPKDHR
 DVQLLEEAIIIQVLSINLKKGESECCYYINKLEYLDEKQKDPRIEASKVLLCHGELKNKSGHKLKIF
 LFQDILVLRPVRNERHLYQVYRQPIPVQELVLEDLQDGDVVMGGSFRAFGNSDKAKNIFRVRFDPS
 PGHSHTLQANDVFHKQQWFNCIRAAIAPFQRAASPLELQGLPDLHEECEENNPAGNLAQRRCVVPV
 MQIDEESALDCGSSVQTVEDTRNMKAQRPPGLRRARDKAQSGGKKKETLV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001047159

ORF Size: 1626 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_001047159.2](#), [NP_001040624.1](#)

RefSeq Size: 3874 bp

RefSeq ORF: 1626 bp

Locus ID: 56349

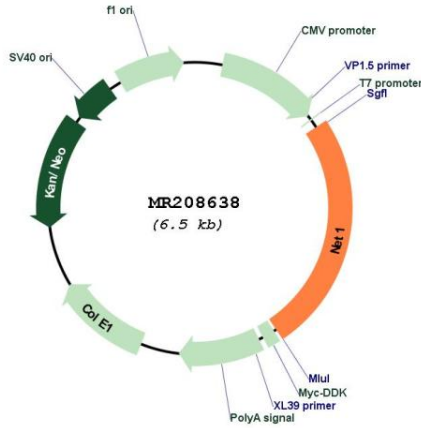
UniProt ID: [Q9Z206](#)

Cytogenetics: 13 A1

MW: 61.8 kDa

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 MR208638