

Product datasheet for **MR218791**

Net1 (NM_019671) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Net1 (NM_019671) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Net1
Synonyms:	mNET1; Net1a
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>MR218791 representing NM_019671
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAGCCAGAGCCGGCTCAGAAGCAGCCCGACCTCGGAGGAGAAGCCGAGGGTCTCAATGCTCA
 GCGAGGAACCTGCCGCGGGCTTCCGGCCGACACACCCGGCCGCGCGCAACGAGAGATGCTCCCTTCG
 GAGAGGCAGCTCCTTACATTTTAAACCCTGGCCACACTGGGACTTCACTTTGAAAAGAAAACGAAGA
 GAGAAAGATGATGATGCTGTAAGCCTTAGCAGCCTTGATTTGAAGGAGCCAAGCAATAAGAGAGTTCGGC
 CTCTAGCTCGGGTACATCTTTGGCAAACCTAATCTCTCCCGTAAGAAATGGAGCAGTCAGGCGCTTCGG
 TCAGACCATACAGTCGTTACCCTTCGTGGTGACCACAGATCCCCAGCCTCTGCCAGAAGTCATTACAGC
 AGGTCCACCGTCCCACACCCACCAAGAGAAGAAGCAGTGCATATGGTCGAAAATGCTAGACATCAATA
 TGAAGGAGTCTTGACCACTCGAGAGATCAAACGTCAGGAGGCCATATATGAATTGTCCCGAGGGGAACA
 GGACTTGATTGAGGATCTCAAGCTCGCTAGAAAGGCCATCATGACCCCATGTTAAAGCTGTCTATCATG
 TCAGAAGAGGAACTCACGCACATATTTGGAGACTTGGATGCTTATATACCTCTGCACGAAGATCTGTAG
 CAAGAATTGGAGAAGCAACCAAGCCTGATGGGACTGTGGAGCAGATCGGTACATTCTCGTGAAGTGGTT
 ACCAGGCCTGAATGCCTACAGAGGCTACTGCAGTAACCAGCTGGCGGCCAAGGCTCTTCTGGATCAGAAG
 AAACAAGACCCAAGAGTCCAAGACTTCTCCAGCGCTGTCTGGAGTCTCCTTTCAGTCGAAAACCTAGATC
 TTTGGAGTTTCTAGATATCCCTCGAAGTCGCCTCGTCAAGTACCCTTACTGTTAAAAGAAATCCTTAG
 ACACACTCCCAAAGACCACCGTATGTTTCAGCTTCTAGAAGAGGCAATATTGATAATAACAAGGAGTCTT
 TCTGATATCAACTGAAGAAAGGCGAATCTGAGTGTGAGTATTACATCAACAAGCTGGAGTACCTGGACG
 AGAAGCAGAAGGACCCCTAGGATCGAAGCGAGCAAAGTGTCTGTGCCATGGGGAGCTGAAGAATAAAG
 CGGCCATAAACTGTACATTTTCCCTATTTCAAGACATCTTGGTTTTGACTCGGCCTGTACCCGAAATGAG
 CGCCACTTGTACCAGTTTACCAGCAGCCATCCAGTCCAGGAGCTGGTGTGGAAGACCTGCAGGACG
 GGGATGTGCGCATGGGTGGCTCCTTCCGAGGGCCTTCGGCAACTCAGACAAAGCTAAAAATATCTTTAG
 GGTCCGCTTCCAAGACCTTCTCCAGGCCACTCCACACACTGCAAGCCAATGATGTGTTCCATAAGCAG
 CAGTGGTTCAACTGTATTCGCGCGGCCATTGCCCTTCCAGCGGGCCGCGAGCCCTTAGAGCTTCAGG
 GCTTGCCAGACCTCCACGAAGAGTGTGAAGAGAACAACCTTCTGCTGGGAACCTCAGAGCCAGCGACG
 GTCATGCGTGGTCTCTGGTGTGATGAGATAGACGAGGAAAGCGCCCTGGATTGTGGCTCCAGTGTACAG
 ACAGTGAAGACACCAGGAACATGAAGGCACAGCGGCCTCAGCCTGGCTTACGAAGCAAGGGACAAAG
 CACAGTCAGGTGGCAAAAAGAAAGAGACTTTGGTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR218791 representing NM_019671
 Red=Cloning site Green=Tags(s)

MEPEPAAQKQPRPRRRSRRVSMLEPEAAGLPADTPGPAANERCSLRRGSSFTFLTPGPHWDFTLKRKR
 EKDDDAVSLSSLDLKEPSNKRVRPLARVTSANLISPVRNGAVRRFQGTIQSFTLRGDHRSPASQKSF
 RSTVPTPTKRRSSALWSEMLDINMKESLTTREIKRQEATYELSRGEQDLIEDLKLARKAYHDPMLKLSIM
 SEEELTHIFGDLDAYIPLHEDLLARIGEATKPDGTVEQIGHILVNWLPGLNAYRGYCSNQLAAKALLDQK
 KQDPRVQDFLQRCLESPFSRKLDLWSFLDIPRSRLVKYPLLLKEILRHTPKDHRDVLLEEAII IQGVL
 SDINLKKGESECQYYINKLEYLDEKQKDPRIEASKVLLCHGELKNKSGHKL YIFLFQDILVLTRPVTRNE
 RHLYQVYRQPIPVQELVLEDLQDGDVVMGGSFRGAFGNSDKAKNIFRVRFQDPSPGHSHTLQANDVFHKQ
 QWFNCIRAAIAPFQRAASPLELQGLPDLHEECEENNPSAGNLRAQRRSCVVPGMQIDEESALDCGSSVQ
 TVEDTRNMKAQRPPGLRRARDKAQSGGKKKETLV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

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:	<ol style="list-style-type: none"> 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
MW:	68.2 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]