

## Product datasheet for **MG208638**

### Net1 (BC004699) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Net1 (BC004699) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Net1
Synonyms:	Net1a, mNET1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG208638 representing BC004699  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGTGGCGCATGATGAGATCGGAGGTCTCTGCCATTAAAAGGACGATCCGAGTCTTAGATGTTAATA  
 ACCAGCCCTTCGGGAGCAGGAGGAGCCAAGCAATAAGAGAGTTCGGCCTCTAGCTCGGGTACATCTTT  
 GGCAAACTTAATCTCTCCGTAAGAAATGGAGCAGTCAGGCGCTTCGGTCAGACCATACAGTCGTTTACC  
 CTTCTGGTGACCACAGATCCCCAGCCTCTGCCAGAAGTCATTAGCAGGTCCACCGTCCCCACACCCA  
 CCAAGAGAAGAAGCAGTGCATATGGTCGAAATGCTAGACATCAATATGAAGGAGTCTTGACCACTCG  
 AGAGATCAAACGTCAGGAGGCCATATGAATTGTCGGAGGGAAACAGGACTTGATTGAGGATCTCAAG  
 CTCGCTAGAAAGGCTACCATGACCCATGTTAAAGCTGTCTATCATGTCAGAAGAGGAACACGCACA  
 TATTTGGAGACTGGATGCTTATACCTCTGCACGAAGATCTGTTAGCAAGAATTGGAGAAGCAACCAA  
 GCCTGATGGGACTGTGGAGCAGATCGGTACATCTCTGTAAGTGTGTTACCAGGCTGAATGCCTACAGA  
 GGCTACTGCAGTAACAGCTGGCGGCCAAGGCTCTTCTGGATCAGAAGAAACAAGACCCAAGAGTCCAAG  
 ACTTCTCCAGCGCTGTCTGGAGTCTCCTTTCAGTCGAAAAGTAGATCTTTGGAGTTTCTAGATATCCC  
 TCGAAGTCGCCTCGTCAAGTACCCCTTACTGTTAAAAGAAATCCTTAGACACACTCCCAAAGACCACCGT  
 GATGTTACAGTCTTAGAAGAGGCAATATTGATAATACAAGGAGTCTTTCTGATATCAACTTGAAGAAAG  
 GCGAATCTGAGTGCAGTATTACATCAACAAGCTGGAGTACCTGGACGAGAAGCAGAAGGACCCTAGGAT  
 CGAAGCGAGCAAAGTGTCTGTGCCATGGGGAGCTGAAGAATAAAAGCGGCCATAAACTGTACATTTTC  
 CTATTTCAAGACATCTTGGTTTTGACTCGGCCTGTCACCCGAAATGAGCGCCACTTGTACCAGGTTTACC  
 GCAGCCCATCCCAGTCCAGGAGCTGGTCTGGAAGACCTGCAGGACGGGGATGTGCGCATGGGTGGCTC  
 TTCCGAGGGGCTTCGGCAACTCAGACAAAGCTAAAAATATCTTTAGGGTCCGCTTCCAAGACCTTCT  
 CCAGGCCACTCCACACACTGCAAGCCAATGATGTGTTCCATAAGCAGCAGTGGTTCAACTGTATTTCGCG  
 CGGCCATTGCCCTTCCAGCGGGCCGACCCCTTAGAGCTTCCAGGGCTTCCAGACCTCCACGAAGA  
 GTGTGAAGAGAACAACCTTCTGCTGGAACTCAGAGCCAGCGACGGTATGCGTGGTTCCTGGTGTCT  
 ATGCAGATAGACGAGAAAGCGCCCTGGATTGTGGCTCCAGTGTACAGACAGTGAAGACACCAGGAACA  
 TGAAGGCACAGCGCCTCAGCCTGGCTTACGAAGCAAGGGACAAGCACAGTCCAGGTGGCAAAAAGAA  
 AGAGACTTTGGT

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>MG208638 representing BC004699  
 Red=Cloning site Green=Tags(s)

MVAHDEIGLLPIKRTIRVLDVNNQPFREQEEPSNKRVRPLARVTSANLISPVRNGAVRRFGQTIQSFT  
 LRGDHRSPASAQKSF SRSTVPTPKRRSSALWSEMLDINMKESLTTREIKRQEAIYELSRGEQDLIEDLK  
 LARKAYHDPMLKLSIMSEEELTHIFGDLDAYIPLHEDLLARIGEATKPDGTVEQIGHILVNWLPGLNAYR  
 GYCSNQLAAKALLDQKKQDPRVQDFLQRCLESPFSRKLDSLWFLDIPRSRLVKYPLLLKEILRHTPKDHR  
 DVQLLEEAAILIIQGVLSINLKKGESECCQYYINKLEYLDEKQKDPRIEASKVLLCHGELKNKSGHKL YIF  
 LFQDILVLRPVTRNERHLYQVYRQPIPVQELVLEDLQDGDVVMGGSFRGAFGNSDKAKNIFRVRFQDPS  
 PGHSHTLQANDVFHKQQWFNCIRAAIAPFQRAASPLELQGLPDLHEECEENNPSAGNLRAQRRCVVPV  
 MQIDEESALDCGSSVQTVEDTRNMKAQRPPGLRRARDKAQSGGKKKETLV

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-Mlul



<b>ACCN:</b>	BC004699
<b>ORF Size:</b>	1625 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">BC004699</a> , <a href="#">AAH04699</a>
<b>RefSeq Size:</b>	3313 bp
<b>RefSeq ORF:</b>	1625 bp
<b>Locus ID:</b>	56349
<b>Cytogenetics:</b>	13 A1
<b>Gene Summary:</b>	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]