

## Product datasheet for **SC116508**

### **NET1 (NM\_005863) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	NET1 (NM_005863) Human Untagged Clone
Tag:	Tag Free
Symbol:	NET1
Synonyms:	ARHGFE8; NET1A
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene ORF within SC116508 sequence for NM\_005863 edited (data generated by NextGen Sequencing)

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ATGGTGGCACATGATGAGACTGGAGGTCTCCTACCTATTTAAAAGGACCATACGAGTCCTA
GATGTCAATAACCCAGTCCCTTACAGAGAACAAGAGGAGCCAAGCAATAAAAAGAGTTCGACCT
CTGGCTCGTGTACGTCCTTGGCAAATTTAATCTCTCCTGTAAGAAATGGAGCTGCAGA
CGTTTTGGTCAAACAATACAGTCATTTACCCTTCGTGGTGACCACAGATCCCCAGCCTCT
GCCGAGAAGTTTTCTAGCAGGTCAACAGTCCCAACACCCGCCAAGAGAAGGAGCAGTGCA
CTGTGGTCAGAGATGCTGGACATCACCATGAAGGAGTCTCTCACCACCAGGGAGATCAGA
CGGCAGGAGGCAATATATGAAATGTCCCGAGGTGAACAGGATTTAATTGAGGATCTCAAA
CTTGCAAGAAAGGCCTACCATGACCCCATGTTAAAGTTGTCCATCATGTCAGAAGAGGAA
CTCACACATATATTTGGTGATCTGGACTTTACATACCTCTGCATGAAGATTTGTTGACA
AGAATAGGAGAAGCAACCAAGCCTGATGGAACAGTGGAGCAGATTGGTCACATTCTCGTG
AGCTGGTTACCGCGCTTGAATGCCTACAGAGGTTACTGTAGTAACCAGCTGGCAGCCAAA
GCTCTTCTTGATCAAAAGAAACAGGATCCAAGAGTCCAAGACTTCTCCAGCGATGTCTC
GAGTCTCCCTTCAGTCGAAAAGTATGATCTTTGGAGTTTCTAGATATCCCTCGAAGTCGC
CTAGTCAAATACCTTTACTGTTAAAAGAAATTCTTAAACACACTCCAAAAGAGCACCTCT
GATGTTACAGTCTTGAGGATGCTATATTGATAATACAGGGAGTCTCTCTGATATCAAC
TTGAAGAAAGGTGAATCCGAGTGCCAGTATTACATCGACAAGCTGGAGTACCTGGATGAA
AAGCAGAGGGACCCAGAATCGAAGCGAGCAAAGTGTCTGTGCCATGGGGAGCTGCGG
AGCAAGAGTGGACATAAACTTTACATTTTCTGTTTCAAGACATCTTGGTTCTGACTCGG
CCCGTCACACGGAACGAACGGCACTCTTACCAGGTTTACCGGCAGCCAATCCCAGTCCAA
GAGCTAGTCTTAGAAGACCTGCAGGATGGAGATGTGAGAATGGGAGGCTCCTTTGAGGA
GCTTTAGTAACCTCAGAGAAAGCTAAAAATATCTTTAGAATTTCGTTCCATGACCCCTCT
CCAGCCAGTCTCACACTCTGCAAGCCAATGACGTGTTCCACAAGCAGCAGTGGTTCAAC
TGTATTCGAGCGGCCATTGCCCTTCCAGTTCGCGAGGCAAGTCCACCTGAGCTGCAGGGC
CTGCCGGAGCTGCACGAAGAGTGTGAGGGGAACCAACCCCTCTGCGAGGAAACTCACAGCC
CAGAGGAGGGCATCCACAGTTCAGTGTACTCAGGTAGAAGTTGATGAAAACGCTTAC
AGATGTGGCTCTGGCATGCAGATGGCAGAGGACAGCAAGAGCTTAAAGACACACCAGACA
CAGCCCGCATCCGAAGAGCGAGGGACAAAGCCCTTTCTGGTGGCAAACGGAAAGAGACT
TTGGTGTAG
    
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Clone variation with respect to NM\_005863.3

**5' Read Nucleotide Sequence:** >OriGene 5' read for NM\_005863 unedited

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GAAAACCCATTCGGCACGAGGCCGCGGATAGGCATGGGCACGTGGCTGCCGAGGTGGC
CGAGCTCTGGGAAGAAAAGCCCGTGTGCCTCTGCATAGCGTCGCTACAGCGCTGACTCGG
TGTGGATTGATTGAAAGGTTTTGAGGGAGTACTTGGGAAGCATGGTGGCACATGATGATA
TTGTTGTCTCCTACCTATTTAAAAGGACCATACGAGTCTTAGATGTCAATAACCAGTCCTT
CAGAGAACAAGAGGAGCCAAGCAATAAAAAGAGTTCGACCTCTGGCTCGTGTACGTCCTT
GGCAAATTTAATCTCTCCTGTAAGAAATGGAGCTGTGACAGCTTTTGGTCAAACAATACA
GTCATTTACCCTTCGTGGTGACCACAGATCCCCAGCCTCTGCCAGAAAGTTTTCTAGCAG
GTCAACAGTCCCAACACCCGCCAAGAGAAGGAGCAGTGCCTGTGGTTCAGAGATGCTGGA
CATCACCATGAAGGAGTCTCTCACCACCAGGGAGATCAGACGGCAGGAGGCAATATATGA
AATGTCCCGAGGTGAACAGGATTTAATTGAGGATCTCAAACCTGCAAGAAAGGCCTACCA
TGACCCCATGTTAAAGTTGTCCATCATGTCAGAAGAGGAACTCACACATATATTTGGTGA
TCTGGACTCTTACATACCTCTGCATGAAGATTTGTTGACNAGAATAGGAGAAGCAACCAA
GCCTGATGGAACAGTGGAGCAGATTGGTCACATTCTCGTGTGAGCTGGTTACCGCGCTTTGA
TGCCCTACAGAGTTACTGTAGTAACCAGCTGGCAGCCAAAGCTCTTTCTGATCAANNAGA
ACAGATCCAAGAGTCCAAGACTTCTCCAGCA
    
```

<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_005863 unedited TAGAGTCGAGTTTTTTTTTTTTTTTTTTTACACACACATTTTAAATCAGGAAGAAAAATAC TTTAAAGACATGCCAATTTGAAAAGGCATCAAAGTAAAAAATAAAAGCAAATGCTAAAA ACTACTTTACAATAAAAAAATTAATAATCGGCAGGTTAAATGAATGTAAATGAGGAAT GTACAGTGAAAAACAACTAATAATAAGCATTCCAGTTGATAAAAACTCCTCAGGCTTA TGGTTTGTTCCTCAAGGAAATTTGTTTCAATGTAAAGTTTGAATACTCCAGACATACA TTCCATGTAGTTTTGGGTGCCAATGTTAAAATTTCAAATTTTGCATGCAAGGCTTAGCA AAGAAACACTGGCAGAATTCAGCATTTGCAAAATTTCTAAGTTTTGGTGAATATTGTA TATTACAATTGGTATTAGAAAGCCATGATGAATCCAGAATTAAGAGAAAACCCATTTTCAT AAATATTTTGTGTTGATTAAAAAATACCAGGCTTACCATGTTCTAAATAATTCAAGAAAA TATCTTTAAAAAAAAGGGACTGCATTTACAGTAATCTGTATATCTTTAGCTGCCATTAA AAAAAGAANAAGAACACCCANAAACANTGAAAATGTTACAACCTGGTATAAAGTAACCT ATGATGCTNCCCTACGAGAAAAACAACTGTACACATTTATAACAAACAGTCTCTCCCA TCAGTTTACACACAGAGCCTTTCTACACAAAGTCTCTTCCGTTTTGCACAGAAAAGG GCTTGTCCNTCGCTCTTCGGATGCCNGGCTGGGTCTGGNGNGCCTAAGCTTTTGTGCTCC TTTGCATTNGATGCAGAGCCATTGGAAACGTTTTATACTTCTCCTGAGTACCTGGAACT GGGATGCCTCTTTGGCTGGAGTTTCTGCAAAGGGGGTCCCTAATTTTTGCACTCCGA GCCTGATTTAGTGACTCTCCCATGAGGGCATGCCNTTAATCATGACCTGTGGTGAACC T
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_005863
<b>Insert Size:</b>	2620 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<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>	<u><a href="#">NM_005863.2</a></u> , <u><a href="#">NP_005854.2</a></u>
<b>RefSeq Size:</b>	3236 bp
<b>RefSeq ORF:</b>	1629 bp
<b>Locus ID:</b>	10276
<b>UniProt ID:</b>	<u><a href="#">Q7Z628</a></u>
<b>Cytogenetics:</b>	10p15.1

**Domains:** RhoGEF, PH

**Protein Families:** Druggable Genome

**Gene Summary:** This gene is part of the family of Rho guanine nucleotide exchange factors. Members of this family activate Rho proteins by catalyzing the exchange of GDP for GTP. The protein encoded by this gene interacts with RhoA within the cell nucleus and may play a role in repairing DNA damage after ionizing radiation. Pseudogenes of this gene are located on the long arms of chromosomes 1, 7 and 18. Alternative splicing results in multiple transcript variants that encode different protein isoforms. [provided by RefSeq, Jul 2012]  
Transcript Variant: This variant (2) differs in the 5' UTR, lacks a portion of the 5' coding region, and initiates translation at an alternate start codon, compared to variant 1. The encoded isoform (2) has a distinct N-terminus and is shorter than isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.