

## Product datasheet for **RG223742**

### **NET1 (NM\_001047160) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	NET1 (NM_001047160) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NET1
Synonyms:	ARHGEF8; NET1A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG223742 representing NM\_001047160  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGAGCCCGAGCTGGCGGCTCAGAAGCAGCCTCGACCGGAGGCGAAGCCGCCGGCCTCTGGGCTCA  
 GCACGGAGGGAGCGACGGGCCCTTCGGCCGACACCTCCGGGTCGGAGCTGGACGGAGATGTTCCCTTCG  
 GAGAGGCAGCTCCTTACATTCTTAACACCTGGCCCAACTGGGACTTCACTTTGAAAAGAAAACGCAGA  
 GAGAAAGATGATGATGTTGAAGCCTTAGCAGCCTTGATCTGAAGGAGCCAAGCAATAAAAGAGTTCGAC  
 CTCTGGCTCGTGTACGTCTTGCAAATTTAATCTCTCTGTAAGAAATGGAGCTGTCAGACGTTTTGG  
 TCAAACAATACAGTCATTTACCCTTCGTGGTGACCACAGATCCCCAGCCTCTGCCAGAAGTTTTCTAGC  
 AGGTCAACAGTCCCAACACCCGCAAGAGAAGGAGCAGTGCCTGTGGTCAGAGATGCTGGACATCACCA  
 TGAAGGAGTCTCTACCACCAGGAGATCAGACGGCAGGAGGCAATATATGAAATGTCCCGAGGTGAACA  
 GGATTTAATTGAGGATCTCAAATTTGAAGAAAGCCTACCATGACCCCATGTTAAAGTTGTCCATCATG  
 TCAGAAGAGGAATCACACATATATTTGGTGATCTGGACTCTTACATACCTCTGCATGAAGATTTGTTGA  
 CAAGAATAGGAGAAGCAACCAAGCCTGATGGAACAGTGGAGCAGATTGGTACATTCTCGTGAGCTGGTT  
 ACCGCGCTTGAATGCCTACAGAGGTTACTGTAGTAACCAGCTGGCAGCCAAGCTCTTCTTGATCAAAG  
 AAACAGGATCCAAGAGTCCAAGACTTCTCCAGCGATGTCTCGAGTCTCCCTTCACTCGAAAAGTATGATC  
 TTTGGAGTTTCTAGATATCCCTCGAAGTCGCCTAGTCAAATACCTTTACTGTTAAAAGAAATCTTAA  
 ACACACTCCAAAAGAGCACCCCTGATGTTAGCTTCTGGAGGATGCTATATTGATAATACAGGGAGTCCCT  
 TCTGATATCAACTTGAAGAAAGGTGAATCCGAGTGCCAGTATTACATCGACAAGCTGGAGTACCTGGATG  
 AAAAGCAGAGGGACCCAGAATCGAAGCGAGCAAAGTGTCTGTGCCATGGGGAGCTGCGGAGCAAGAG  
 TGGACATAAACTTTACATTTTCTGTTTCAAGACATCTTGGTTCTGACTCGGCCCGTCACACGGAACGAA  
 CGGCACTCTTACCAGTTTACCAGCAGCAATCCAGTCCAAGAGCTAGTCTTAGAAGACCTGCAGGATG  
 GAGATGTGAGAATGGGAGGCTCCTTTCGAGGAGCTTTCAGTAACTCAGAGAAAGCTAAAAATATCTTTAG  
 AATTTCGTTCCATGACCCCTCTCCAGCCAGTCTCACACTCTGCAAGCCAATGACGTGTTCCACAAGCAG  
 CAGTGGTTCAACTGTATTCGAGCGGCCATTGCCCTTCCAGTCCGAGGAGTCCACCTGAGCTGCAGG  
 GCCTGCCGGAGCTGCACGAAGAGTGTGAGGGGAACCCCTCTGCGAGGAAACTCACAGCCAGAGGAG  
 GGCATCCACAGTTTCCAGTGTACTCAGGTAGAAGTTGATGAAAACGCTTACAGATGTGGCTCTGGCATG  
 CAGATGGCAGAGGACAGCAAGAGCTTAAAGACACACCAGACACAGCCCGCATCCGAAGAGCGAGGGACA  
 AAGCCCTTCTGGTGGAACCGAAAGAGACTTTGGTG

**ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA**

**Protein Sequence:**

>RG223742 representing NM\_001047160  
 Red=Cloning site Green=Tags(s)

MEPELAAQKQPRPRRRSRRASGLSTEGATGPSADTSGSELDGRCSLRRGSSFTFLTPGPNWDFTLKRKR  
 EKDDDDVVSLSLSDLKEPSNKRVRPLARVTSANLISPVRNGAVRRFGQTIQSFTLRGDHRSPASAQKFSS  
 RSTVPTPAKRSSALWSEMLDITMKESLTTREIRRQEAIYEMSRGEQDLIEDLKLARKAYHDPMLKLSIM  
 SEEELTHIFGDLDSYIPLHEDLLTRIGEATKPDGTVEQIGHILVSWLPRLNAYRGYCSNQLAAKALLDQK  
 KQDPRVQDFLQRCLESPFSRKLDELWSFLDIPRSRLVKYPLLLKEILKHTPKHEPDVQLLEDAIILIIQGV  
 SDINLKKGESECQYYIDKLEYLDEKQRDPRIEASKVLLCHGELRSKSGHKLYIFLFDILVLTRPVTRNE  
 RHSYQVYRQPIPVQELVLEDLQDGDVRMGGSFRTAFSNSEKAKNIFRIRFHDPSPAQSHTLQANDVFHKQ  
 QWFNCIRAAIAPFQSAGSPPELQGLPELHEECEGNHPSARKLTAQRRASTVSSVTQVEVDENAYRCGSGM  
 QMAEDSKSLKTHQTQPGIRRARDKALSGGKRKETLV

**TRTRPLE - GFP Tag - V**

**Restriction Sites:**

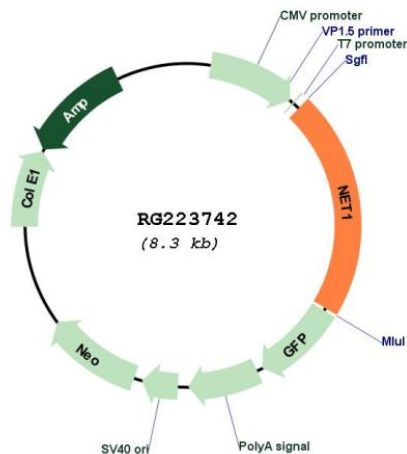
Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**Plasmid Map:**



ACCN: NM\_001047160

ORF Size: 1788 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="#">NM_001047160.2</a> , <a href="#">NP_001040625.1</a>
<b>RefSeq Size:</b>	3414 bp
<b>RefSeq ORF:</b>	1791 bp
<b>Locus ID:</b>	10276
<b>UniProt ID:</b>	<a href="#">Q7Z628</a>
<b>Cytogenetics:</b>	10p15.1
<b>Protein Families:</b>	Druggable Genome
<b>Gene Summary:</b>	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]