

Product datasheet for **RG201682**

NET1 (NM_005863) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NET1 (NM_005863) 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:

>RG201682 representing NM_005863
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGTGGCACATGATGAGACTGGAGGTCTCTACCTATTAAGGACCATACGAGTCTAGATGTCAATA
 ACCAGTCTTCAGAGAACAAGAGGAGCCAAGCAATAAAGAGTTCGACCTCTGGCTCGTGTACGTCCTT
 GGCAAATTAATCTCTCCTGTAAGAAATGGAGCTGTCAGACGTTTTGGTCAAACAATACAGTCATTTACC
 TTCGTGGTGACCACAGATCCCCAGCCTCTGCCAGAAGTTTTCTAGCAGGTCAACAGTCCCAACACCCG
 CCAAGAGAAGGAGCAGTGCAGTGTGGTCAAGATGCTGGACATCACCATGAAGGAGTCTCTACCACCAG
 GGAGATCAGACGGCAGGAGGCAATATGAAATGTCCCGAGGTGAACAGGATTTAATTGAGGATCTCAA
 CTTGCAAGAAAGGCTACCATGACCCATGTTAAAGTTGCCATCATGTCAGAAGAGGAACACACATA
 TATTTGGTGATCTGGACTTTACATACCTCTGCATGAAGATTTGTTGACAAGAATAGGAGAAGCAACCA
 GCCTGATGGAACAGTGGAGCAGATTGGTCACATCTCGTGAAGTGTGACAAGAATAGGAGAAGCAACCA
 GGTACTGTAGTAACAGCTGGCAGCCAAGCTCTTCTGATCAAAGAAACAGGATCCAAGAGTCCAAG
 ACTTCTCCAGCGATGTCTCGAGTCTCCCTTCAGTCGAAAACAGATCTTTGGAGTTTCTAGATATCCC
 TCGAAGTCGCCTAGTCAAATACCCTTACTGTTAAAAGAAATCTTAAACACACTCCAAAAGAGCACCTT
 GATGTTCACTTCTGGAGGATGCTATATTGATAATACAGGGAGTCTCTCTGATATCAACTTGAAGAAAG
 GTGAATCCGAGTGCCAGTATTACATCGACAAGCTGGAGTACCTGGATGAAAAGCAGAGGGACCCAGAA
 CGAAGCGAGCAAAGTGTCTGTGCCATGGGGAGCTGCGGAGCAAGAGTGGACATAAACTTTACATTTTC
 CTGTTTCAAGACATCTTGGTCTGACTCGGCCGTACACGGAACGAACGGCACTTTACCAGGTTTACC
 GGAGCCCAATCCAGTCCAAGAGCTAGTCTAGAAGACCTGCAGGATGGAGATGTGAGAATGGGAGGCTC
 CTTTCGAGGAGCTTTCAGTAACTCAGAGAAAGCTAAAAATATCTTTAGAATTCGCTTCCATGACCCCTC
 CCAGCCAGTCTCACACTCTGCAAGCCAATGACGTGTTCCACAAGCAGCAGTGGTTCAACTGTATTTCGAG
 CGGCCATTGCCCTTCCAGTCCGAGGAGTCCACCTGAGCTGCAGGGCTGCCGGAGCTGCACGAAGA
 GTGTGAGGGGAACACCCCTCTGCGAGGAACTCACAGCCAGAGGGGATCCACAGTTTCCAGTGT
 ACTCAGGTAGAAGTTGATGAAAACGTTACAGATGTGGCTCTGGCATGCAGATGGCAGAGGACAGCAAGA
 GCTTAAAGACACACCAGACAGCCCGCATCCGAAGAGCGAGGGACAAAGCCCTTCTGGTGGCAAACG
 GAAAGAGACTTTGGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG201682 representing NM_005863
 Red=Cloning site Green=Tags(s)

MVAHDETGGLLPIKRTIRVLDVNNQSFREQEPEPSNKRVRPLARVTSANLISPVRNGAVRRFGQTIQSFT
 LRGDHRSPASAQKFSSRSTVPTPAKRSSALWSEMLDITMKESLTTREIRRQEAIYEMSRGEQDLIEDLK
 LARKAYHDPMLKLSIMSEELTHIFGDLSYIPLHEDLLTRIGEATKPDGTVEQIGHILVSWLPRLNAYR
 GYCSNQLAAKALLDQKKQDPRVQDFLQRCLESPFSRKLDFLIPRSLVKYPLLLKEILKHTPKHP
 DVQLLEDAILIIQGVLSINLKKGESECYIDKLEYLDEKQRDPRIEASKVLLCHGELRSKSGHKLKIF
 LFQDILVLRPVTRNERHSYQVYRQPIPVQELVLEDLQDGDVVMGGSFRGAFSNSEKAKNIFRIRFHDP
 PAQSHTLQANDVFHKQWFNCIRAAIAPFQSAGSPPPELQGLPELHEECEGNHPSARKLTAQRRASTVSSV
 TQVEVDENAYRCGSGMQMAEDSKSLKTHQTQPGIRRARDKALSGGKRKETLV

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_005863

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_005863.4](#)

RefSeq Size: 3297 bp

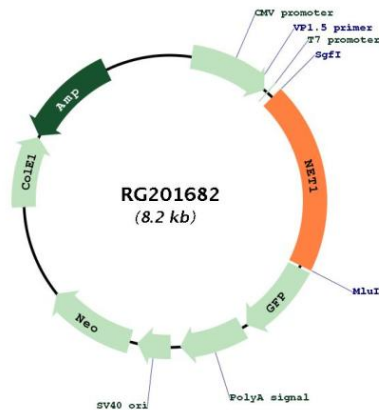
RefSeq ORF: 1629 bp

Locus ID: 10276

UniProt ID: [Q7Z628](#)

Cytogenetics: 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]

Product images:



Circular map for RG201682