

Product datasheet for **SC113806**

NTAQ1 (NM_018024) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NTAQ1 (NM_018024) Human Untagged Clone
Tag:	Tag Free
Symbol:	NTAQ1
Synonyms:	C8orf32; WDYHV1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC113806 sequence for NM_018024 edited (data generated by NextGen Sequencing) ATGGAAGGTAATGGCCCCGCTGCTGTCCACTACCAGCCGCCAGCCCCCGGGGACGCC TGCGTCTACAGCAGCTGCTACTGTGAAGAAAATGTTTGAAGCTCTGTGAATACATCAAA AACCATGACCAGTATCCTTTAGAAGAATGTTATGCTGTCTTCATATCTAATGAGAGGAAG ATGATACCTATCTGAAACAACAGGCGAGACCTGGAGATGGACCTGTGATCTGGGATTAC CATGTTGTTTTGCTTCATGTTTCAAGTGGAGGACAGAGCTTCATTTATGATCTCGATACT GTCTTGCCATTTCCCTGCCTCTTTGACACTTATGTAGAAGATGCCATTAAGTCTGATGAT GACATTCACCCACAGTTTAGGAGGAAATTTAGAGTGATCTGTGCAGATTCATATTTGAAG AACTTTGCTTCTGACCGATCTCACATGAAAGACTCCAGTGGGAATTGGAGAGAGCCTCCG CCGCCATATCCCTGCATTGAGACTGGAGATTCCAAAATGAACCTGAACGATTTTCATCAGT ATGGATCCAAGGTAGGATGGGGCGCCGCTACACACTATCCGAATTTACACATCGGTTT GGCAGTAAAAACTGCTGA Clone variation with respect to NM_018024.1 94 a=>g;278 a=>g;346 t=>a;400 c=>t



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_018024 unedited GGTCAAAATTTGTATACGACTCCTATAGGGCGGCCGGAATTCGCACGAGGGTCGGTCTT CCTCCGGCCCGGGCCCTGGCCAGCTAGCCGGCCATGGAAGGTAATGGCCCCGCTGCTGT CCACTACCAGCCGGCCAGCCCCCGGGAGCGCTGCGTCTACAGCAGCTGCTACTGTGA AGAAAAATGTTTGAAGCTCTGTGAATACATCAAAAACCATGACCAGTATCCTTTAGAAGA ATGTTATGCTGTCTTCATATCTAATGAGAGGAAGATGATACCTATCTGGAACAACAGGC GAGACCTGGAGATGGACCTGTGATCTGGGATTACCATGTTGTTTTGCTTCATGTTTTCAAG TGGAGGACAGAGCTTCATTTATGATCTCGATACTGTCTTGCCATTCCCTGCCTCTTGA CACTTATGTAGAAGATGCCATTAAGTCTGATGATGACATTCACCCACAGTTTAGGAGGAA ATTTAGAGTGATCTGTGCAGATTCATATTTGAAGAACTTTGCTTCTGACCGATCTCACAT GAAAGACTCCAGTGGGAATTGGAGAGAGCCTCCGCCGCCATATCCCTGCATTGAGACTGG AGATTCAAAAATGAACCTGAACGATTTTCATCAGTATGGATCCCAAGGTAGGATGGGGCGC CGTCTACACACTATCCGAATTTACACATCCGTTTGGCAGTAAAACTGCTGAACCTGGC CTCAAGATGTGGAACGTGGGAGAATTCTAGGACATGAACCAGCTATCCTTTTCATCCGAG ACAGCANACATTATGGGTACAGTTTGGCTTGAATTATTGCCTCCTCTTTTAATNTGA TTGAGNGGGAAATCTGATGGAGTCCCAATTTTAATTGAACCACATTANAACCTTTTTGTT NNTGACATGTCACATTGAC</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_018024 unedited NNAAGTTTTTACTCTGAAACCGCGCCGCATNCTAGNGATCAGTTTTTTTTTTTTTTTTT TTTTTTTCTGAGAGGAGTCTTGCTCTGCACTCAGGCTGGAGTGCAGCAGCAGATCTCA GCTCACTGCAACCTCCACCTCCCAGGTCCAAGCAATTCTGCCTCAGCCTCCCAAGTAGCT GGCATCACAGGCGCCCGCCACCACCCAGCCAACCTCTATATTTTTAGTAGAGACAAGG TTTCACCACGTTGGCCAAGCTGGTCTCAAACCTCCTGACCTCATGATCCGCCACCTAGGA CTCCCAAAGTGCTGAGATTACACACATGAGCCACCATGCCCAGCTGATAGTTTCTTAATA AGTAGAAAGCTCATCTAAGAACAAAAGGTGAGACATCCTTGCTATAAGAAGTTATTCATT TTTAAAGCAGAATCATGAAAACATGAGAGCTGGTACTATATGCCAATGTAATGCCAAATA TCTTTTCAATTTGGAATGATATGATTAAGCCAAATAACCAAGATGTCTCCAGAAGGCACA TGTAATAAATATTTTTAAAGCCCTGGTCTCATCTACAATTGAGGCATATTTAGGTATT TCAGATCATCAAGGCTGACACAAAAATCTCAAACAAAACAACTAACGTTAAATCGATTTTA TTTAAAGCCATAAATAAATAAGCCAATTAACGCTCAAGTCTGAGAGGGCTGCAGTCTTTT TAACAATACCATAGTCCAAAAAGACTAATACTTATTGCTGATTACAGCTCACAATATTACC CCTTTCCAGACAACAGCACATTCAAATGTTCAAGAAAACATTTTATGGGCACCTTTTATG GGCATTGAGATTACAGAGCAATGGGCCTGGCCCTGCCCTCAGGACTTACGTGTACCTG GAC</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_018024
Insert Size:	1900 bp
OTI Disclaimer:	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).
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_018024.1](#), [NP_060494.1](#)

RefSeq Size: 1348 bp

RefSeq ORF: 618 bp

Locus ID: 55093

UniProt ID: [Q96HA8](#)

Cytogenetics: 8q24.13

Protein Families: Stem cell - Pluripotency

Gene Summary: Mediates the side-chain deamidation of N-terminal glutamine residues to glutamate, an important step in N-end rule pathway of protein degradation. Conversion of the resulting N-terminal glutamine to glutamate renders the protein susceptible to arginylation, polyubiquitination and degradation as specified by the N-end rule. Does not act on substrates with internal or C-terminal glutamine and does not act on non-glutamine residues in any position. Does not deaminate acetylated N-terminal glutamine. With the exception of proline, all tested second-position residues on substrate peptides do not greatly influence the activity. In contrast, a proline at position 2, virtually abolishes deamidation of N-terminal glutamine. [UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) encodes the longest 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.